

**PRE-DEVELOPMENT PHASE II ENVIRONMENTAL SITE ASSESSMENT AND  
GEOTECHNICAL STUDY  
REPORT**

**BULLS HEAD SUB-AREA NORTH  
ROCHESTER, NEW YORK**

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## **1.0 INTRODUCTION**

Day Environmental, Inc. (DAY) prepared this Pre-Development Phase II Environmental Site Assessment (ESA) and Geotechnical Study Report in support of the contemplated redevelopment of the subject property located within the Sub-Area North portion of the Bulls Head Brownfield Opportunity Area (BOA), Rochester, New York.

Fieldwork associated with this Phase II ESA was conducted on City-owned parcels addressed as: 796-800 and 816-822 Brown Street; 886, 888-892, 894-898, 900, and 906-910 West Main Street; 44, 64, 68-70 and 76 York Street; and 7 and 17 York Street. Under temporary incident of ownership (TIO), confirmatory Phase II ESAs were previously completed on parcels addressed as 5 Kensington and 50 York Street, which are currently owned by the City. For the purposes of this report, and unless stated otherwise, the findings, conclusions and recommendations described herein, and references to the “Site”, pertain only to the above-listed City-owned parcels. [Note: 239 Silver Street, 21 Kensington Street, and 904 West Main Street are also currently owned by the City, but were not included in the Phase II ESA.]

A Project Locus Map is included as Figure 1, a topographic Survey of the Site is included as Figure 2A, and a Site Plan showing the City-owned parcels within the Bulls Head BOA is included as Figure 2B. The work presented herein was completed in accordance with DAY’s January 2, 2018 proposal to the City of Rochester (City).

### **1.1 Site Background and History**

The Site consists of contiguous and non-contiguous undeveloped lots, former paved streets and parking lots and landscaped areas with trees and grass. The Site is bounded to the east by Kensington Street, to the west by York Street, to the south by West Main Street and Brown Street, and to the north by Silver Street and Danforth Street. The Site is located in a mixed residential and commercial developed area.

Historical Sanborn maps dated 1892, 1912, 1950, 1959 and 1971, were reviewed as part of this project. Figure 3 and Figures 3A through 3E provide an overlay of the Site parcels and project test locations in relation to 2015 aerial imagery, the 1892 Sanborn map, the 1912 Sanborn map, the 1950 Sanborn map, the 1959 Sanborn map, and the 1971 Sanborn map, respectively. The historical maps show that the Site and the two TIO properties were developed for various uses over the years, but in general consisted of a co-mingled residential neighborhood and commercial/light industrial area (refer to Section 1.2 for further information).

Potential concerns associated with the Site, and adjacent off-site parcels (e.g.: gas station; collision repair shop; heating, ventilation, and air conditioning contractor), include the contamination of soil and/or groundwater if leaks/spills and/or improper handling/disposal of hazardous materials, petroleum products and/or hazardous wastes have occurred. Due to the prevalence of oil as a heating fuel at the adjacent off-site parcels and former site buildings, it is plausible that oil tanks are/were present in current and former buildings within, or in proximity to, the Site. Table 1 provides a summary of previous identified recognized environmental concerns (RECs) (if any), demolition details (if applicable and available) and notes related to real or potential environmental impact sources for 12 of the City-owned parcels.

DAY and its geotechnical subconsultant (Foundation Design, P.C.) reviewed various in-house documents and resources. DAY and Foundation Design, P.C. also reviewed historical maps, photos and figures provided by the City. This document review provided useful information concerning anticipated subsurface site conditions, (i.e., locations of former building foundations, adjoining gas station properties, etc.) and this information was used to assist in the planning and evaluation of this study. Test locations were selected based on the historical use of the individual parcels with the intent to evaluate specific concerns related to on-site and/or off-site historical activities, fill material, and/or to provide general site coverage.

## **1.2 Summary of Previous Environmental Reports**

DAY completed a September 2009 “Environmental Screen, Bulls Head Project Area (103 Contiguous Parcels of Land), Rochester, New York” that summarized the findings of the historical records reviewed and site visits from public right-of-way (ROW) and city-owned parcels for most of the parcels that comprise the Site. DAY completed Phase I ESAs at the following City-Owned properties within the Site: 886 West Main Street (2015); 894-898 West Main Street (2016); 42 York Street (2016); 68-70 York Street (2016); 5 Kensington Street (2017); and 50 York Street (2017), Rochester, New York. In 2017, DAY also completed Confirmatory Phase II Environmental Site Assessments for 50 York Street and 5 Kensington Street, Rochester, New York.

### *Environmental Screen, Bulls Head Project Area (103 Contiguous Parcels of Land), Rochester, New York*

As presented in the 2009 Environmental Screen, Bulls Head Project Area report, historical uses of the City-owned parcels that comprise the Site have included residential and various commercial and industrial purposes. Specific uses include, but are not limited to: private residences, laundry facilities (possible dry cleaner), textile manufacturing, paint center, hardware store (with permit for flammable liquid storage), automobile service/repair, industrial/manufacturing use, and automobile storage. TIO property 50 York Street was occupied by a “paint washer”, a furniture shop, an upholsterer, a collision shop and an auto service facility during its operational history. TIO property 5 Kensington Street was used as a workshop and auto repair facility.

Based on historical data, the Environmental Screen report presumed that the Site subsurface would be characterized by old foundation remnants and heterogeneous fill materials above natural soils. The report concluded that it was unknown whether potential fill material would contain constituents of concern [i.e., volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, poly-chlorinated biphenyls (PCBs), etc.], and if present, whether the concentrations represented a concern for redevelopment at the Site. It was also unknown whether potential fill materials and subsurface conditions at the Site would pose additional costs in relation to geotechnical considerations during redevelopment of the Site.

*Phase I Environmental Site Assessments, Bulls Head Site, Rochester, New York.*

As presented in the Phase I ESA reports, the following on-site recognized environmental conditions (RECs) were identified for the following properties:

886 West Main Street

- Three floor drains in the basement, a pipe of unknown purpose in the elevator shaft and the potential existence of floor drains in the elevator shaft.
- A cut-off vent pipe with an unknown purpose located on the west exterior wall of the building.
- Historical uses of the property including paint shop, an oil house, a potential shooting range and textile corporation.

894-898 West Main Street

- Historical uses of the property including the apparent presence/former presence of an incinerator, storage of motorcycles, motor oil, tires, gasoline in tanks etc. and improper storage of combustible materials.

42 York Street

- Historical uses of the property including the apparent storage of vehicles. In addition, apparent dark staining and miscellaneous items, which may be indicative of debris appear to be located throughout this property. The staining and debris on this property may be indicative of current or former industrial/manufacturing use of the property or affects from surrounding properties.

No on-site RECs were identified for the 68-70 York Street parcel.

In addition, the Phase I ESA reports for 68-70 York Street, 886 West Main Street, 894-898 Main Street and 42 York Street also contained the following off-site REC:

- Historical Uses and Regulatory Listing of Adjoining/Nearby Properties including:
  - Potential infrastructure (i.e., vent and/fill pipe associated with a potential UST) on a parcel (i.e., 66-67 York Street) adjacent to the Site.
  - A Federal Brownfield Site located approximately 0.2 miles south/southeast of the Site.
  - Approximately seven spill incidents on privately owned parcels within the site boundaries.
  - A Voluntary Cleanup Program Site adjacent to the Site
  - One or more inactive spills on parcels near or adjacent to the Site.

## *5 Kensington Street Phase I ESA and Confirmatory Phase II Environmental Site Assessment*

DAY completed a Phase I ESA at 5 Kensington Street, Rochester, New York with funding from the New York State Brownfield Opportunity Area (BOA) site assessment program and the Environmental Protection Agency (EPA). The Phase I ESA identified the following RECs:

- Historical uses of the property / Potential Underground Storage Tank including the property being used as a workshop and auto repair facility.
- Historical uses and regulatory listings of adjoining/nearby properties

As presented in the Confirmatory Phase II Environmental Site Assessment Report for 5 Kensington Street dated January 11, 2018, limited intrusive studies were completed on the parcel to evaluate the current environmental conditions. The limited studies included a geophysical survey, advancement of four test borings and analytical laboratory testing of four soil samples collected from the parcel.

The geophysical survey completed on the parcel did not detect the presence of underground storage tanks (USTs), but did identify possible former building foundations approximately 3 feet (ft.) below ground surface (bgs).

Soil samples were collected from the four testing borings, which started at or near the ground surface and extended to depths ranging between 11.0 ft. and 14.5 ft. bgs where equipment refusal was encountered. Visual observation and photoionization detector (PID) screening of the samples did not identify field evidence of chemical or petroleum impact. Fill material consisted of reworked soil with varying amounts of ash and/or cinders. A prevalent layer of ash/cinder fill (i.e., greater than 0.5 feet in thickness) was observed in three of the four test borings completed, and this ash/cinder fill could be subject to solid waste regulations if disturbed, displaced, etc. Refer to Figure 4 for the location of the test borings advanced on 5 Kensington Street and those locations in which the prevalent layer of ash/cinder fill was observed.

Analytical laboratory testing detected one or more volatile organic compounds (VOCs) in each soil sample, but measured concentrations were below their respective Unrestricted Use Soil Cleanup Objectives (UUSCOs), Residential SCOs (RSCOs), Restricted Residential SCOs (RRSCOs), Commercial SCOs (CSCOs), and Protection of Groundwater SCOs (PGWSCOs). One semi-volatile organic compound (SVOC) in one sample was detected at a concentration exceeding its UUSCO, RSCO, and RRSCO, but not its CSCO. Mercury was detected in three of the four soil samples at concentrations that exceeded one or more of its UUSCO, RSCO, RRSCO, or PGWSCO, but was not measured at a concentration that exceeded its CSCO. Arsenic, lead and silver were detected in one or more soil samples at concentrations that exceeded their UUSCOs, but not their respective RSCOs, RRSCOs, PGWSCOs or CSCOs. The samples with the highest exceedances of one or more SCOs were collected from fill material with higher amounts of apparent ash and/or coal. The polychlorinated biphenyl (PCB) Aroclor-1260 was detected in a soil sample at a concentration that exceeded its UUSCO, but not its respective RSCO, RRSCO, PGWSCO or CSCO.

## *50 York Street Phase I ESA and Confirmatory Phase II Environmental Site Assessment*

DAY completed a Phase I ESA at 50 York Street, Rochester, New York with funding from the NYSBOA site assessment program and the EPA. The Phase I ESA identified the following RECs:

- Historical uses of the property / including the property being occupied by a “paint washer”, a furniture shop, an upholsterer, a collision shop and an auto service facility during its operational history.

As presented in the Confirmatory Phase II Environmental Site Assessment Report for 50 York Street dated January 11, 2018, limited intrusive studies were completed on the parcel to evaluate the current environmental conditions. The limited intrusive studies included a geophysical survey, advancement of four test borings, and analytical laboratory testing of four soil samples collected from the parcel.

The geophysical survey completed on the parcel did not detect the presence of USTs. In addition, a “pipe of unknown use” was determined to run north of the building and extend into the York Street public ROW. Based on yellow utility marking at this portion of York Street, it is possible this pipe is associated with the natural gas service for the building on the parcel.

Soil samples were collected from the four testing borings, which started at or near the ground surface and extended to depths ranging between 6.0 ft and 8.7 ft. bgs where equipment refusal was encountered. Visual observation and PID screening of the samples did not identify field evidence of chemical or petroleum impact. Fill material consisted of reworked soil with de minimis amounts of ash and/or coal

Analytical laboratory testing did not detect PCBs above the laboratory method detection limits and the VOCs and SVOCs that were detected were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs. Lead and/or Mercury were detected in three samples at concentrations that exceeded the RRSCOs. The samples with the highest exceedances of one or more Soil Cleanup Objectives (SCOs) were collected from fill material.

Previously generated Confirmatory Phase II ESA information and data (i.e., tested constituent concentrations, soil types and thicknesses, etc.) for 5 Kensington Street and 50 York Street were incorporated into the data sets discussed herein. Refer to the excerpts included in Appendix A for specific information associated with the 50 York Street and 5 Kensington Street parcels.

### **1.3 Future Redevelopment**

The City is considering redevelopment options for the Site, which are presumed to consist of primarily commercial re-use, but may also include some mixed residential and commercial uses.



## **1.4 Objective of Study**

The objective of the scope of work performed during this project was to complete a Phase II ESA and evaluate subsurface conditions with regard to environmental and geotechnical characteristics, in order to provide information and guidance for use in the redevelopment of the Site.

## **1.5 Scope of Work**

To assist in meeting the objective of this project, the following scope of work was performed:

- Geophysical survey of select parcels;
- Concurrent subsurface environmental and geotechnical assessment involving excavation of test pits, advancement and sampling of rotary-drilled and direct-push test borings, installation of groundwater monitoring wells, and analysis of soil and groundwater samples;
- Location and elevation survey of the subsurface test locations; and
- Development of this Pre-Development Phase II ESA and Geotechnical Study Report.

The scope of work performed is further described in Section 2.0 of this report.

## **2.0 PRE-DEVELOPMENT ENVIRONMENTAL AND GEOTECHNICAL SCOPE OF WORK**

This section of the report provides details regarding the scope of work that was implemented to fulfill the objective of the study described in Section 1.4.

### **2.1 Geophysical Survey**

On February 1, 2018, DAY's subconsultant Ground Penetrating Radar Systems, Inc. (GPRS) performed a GPR geophysical survey over select portions of the Site including 796-800 Brown Street, 816-822 Brown Street, a portion of 886 West Main Street, 904 West Main Street and 906-910 West Main Street to assist in evaluating the presence of buried metallic objects (e.g., abandoned USTs and/or associated piping, drums, etc.) and remnants of former foundations/structures. Refer to Figure 2B for 2015 aerial imagery of the parcels in which the geophysical survey was completed and the identified anomalies associated with the geophysical study. A copy of GPRS' report dated February 23, 2018 is included in Appendix B. As depicted in the GPRS report and on Figure 2B, four anomalies were identified at the Site including: an apparent utility line, a suspect foundation or layer of buried asphalt, and two locations of buried debris. Anomalies representative of USTs, buried drums, or other environmental concerns were not located in the areas surveyed by GPRS. The information obtained from the geophysical survey was taken into consideration during selection of the test pits and test boring locations that were completed as part of this pre-development study. The maximum effective depth of the GPR for the portions of the Site that were surveyed was 6.5 ft. bgs. The average penetration depth throughout the areas surveyed was approximately 4-4.5 ft bgs.

### **2.2 Subsurface Soil/Fill Evaluation**

Intrusive investigative work was performed as part of a concurrent environmental and geotechnical subsurface evaluation for the Site. This subsurface evaluation included the advancement of 24 direct-push test borings, the excavation of 25 test pits, the advancement of 12 rotary-drilled test borings, the installation of eight monitoring wells in the rotary-drilled test borings, and the collection, field screening, field observation, and environmental laboratory analysis of soil and groundwater samples. Additional details concerning the subsurface evaluation work are provided in the subsections below.

DAY used a Trimble Geo 7X model Geographic Positioning System (GPS) to mark-out, and later re-measure, the location of each test pit and test boring advanced during this study. Further, the elevation of each monitoring well was surveyed by the City in relation to the Rochester City datum.

#### 2.2.1 Direct-Push Test Borings

DAY retained Nature's Way Environmental Consultants & Contractors, Inc. (Nature's Way) to install 24 direct-push test borings at the Site using vehicle-mounted drilling equipment. Nature's Way advanced these test borings on February 12, 2018 and February 13, 2018. The locations are shown on Figure 3, and Figure 3A through Figure 3E. Criteria used in the selection of the test boring locations included:

1. Locations that may be impacted by adjoining private properties;

2. Locations of selected RECs (i.e., historic uses of the Site and adjoining properties, and active spills on presumed upgradient properties within a 0.5-mile radius of the Site, etc.), and
3. Consultation with the geotechnical engineer to provide general site coverage to characterize subsurface conditions and address significant data gaps.

During drilling, soil samples were collected in up to four-foot increments from the ground surface to the depth where equipment refusal was encountered on bedrock, buried foundations or debris. The soil samples retained were classified, logged, and also screened with the PID. Equipment refusal was encountered in the test borings at depths ranging between 3.0 (TB-20) ft. and 15.8 (TB-10) ft. bgs. Personnel from DAY and Foundation Design, P.C. observed and prepared a subsurface log of the test borings. DAY screened the soil/fill samples with a PID for evidence of VOC impact, and collected select samples for possible laboratory analysis. Selected soil samples were retained for possible environmental analytical laboratory testing. Pertinent information for each test boring is provided on logs included in Appendix C.

### 2.2.2 Test Pits

DAY retained Nature's Way to advance 25 test pits at the Site on February 15, 2018, February 16, 2018 and April 20, 2018. The locations of these test pits (designated as TP-01 through TP-25) are shown on Figure 3 and Figure 3A through Figure 3E. Criteria used in the selection of these test pit locations included:

- 1) Results of the geophysical survey (i.e.: a test pit was excavated at the location of a geophysical anomaly suspected to be a foundation or layer of buried asphalt);
- 2) Former building locations to evaluate backfill, and
- 3) Consultation with the geotechnical engineer to provide general site coverage to characterize subsurface conditions.

Some of the test pit locations were also useful in evaluating the areal and vertical extent of fill material, early equipment refusals, or other subsurface conditions that were encountered as the work progressed.

The test pits were excavated to depths ranging between 3.5 feet (TP-15) and 10.0 feet (TP-2, TP-3 and TP-20) bgs. Personnel from DAY and Foundation Design, P.C. observed the excavations and prepared a subsurface log of the test pits. DAY screened soil/fill during excavation with a PID for evidence of VOC impact, and collected select samples for possible laboratory analysis. Pertinent information for each test pit is provided on logs included in Appendix C. Following excavation, the test pits were backfilled with excavated material, and compacted by tamping with the mini-excavator bucket.

### 2.2.3 Rotary-Drilled Test Borings

DAY retained Nature's Way to advance twelve test borings at the Site using a rotary drill-rig. Nature's Way advanced these test borings between February 20, 2018 and March 1, 2018, and the locations of these test borings (designated as TB-25 through TB-27, MW-01 through

MW-08 and MW-06A) are shown on Figure 3, and Figure 3A through Figure 3E. Criteria used in the selection of these rotary-drilled test boring locations included:

- 1) Locations representative of the various Site uses (e.g., former buildings, ROWs, undeveloped, etc.) to document the in-place density of the soil using standardized test methods;
- 2) Evaluation of area-wide trends, identified areas of concern and potential impact by adjoining private properties; and,
- 3) Locations that monitoring wells could provide additional groundwater quality and flow data to fill in data gaps (refer to Section 2.3).

During drilling, continuous split-spoon samples were collected via Standard Penetration Test (SPT) methods in the overburden ahead of the hollow stem augers, except at boring MW-06, which was augered to equipment refusal. Split-spoon soil samples were classified, logged, and also screened with the PID. Selected soil samples were retained for possible testing for the presence of selected chemical constituents. Each boring was advanced to auger refusal, which corresponds to depths ranging between 3.9 feet (MW-04) and 13.0 feet (MW-02) bgs. At test locations MW-02 through MW-08, between 5.0 and 5.6 ft. of bedrock was cored. Pertinent information for each test boring is provided on logs included in Appendix C.

#### 2.2.4 Analysis of Soil/Fill Samples

Various soil or fill samples from test pits, direct-push test borings and rotary-drilled test borings were selected for analytical laboratory testing, refer to Table 2. The analytical laboratory testing program included:

- 1) Samples from test borings and test pits with the greatest field evidence of impact (e.g., highest PID measurements, staining, suspect fill material, odors, etc.);
- 2) Samples collected from immediately above the water table, immediately above bedrock, or near the bottom of the test boring/test pit when evidence of impact was not encountered; and
- 3) Samples based on spatial relationship to overlying fill material and/or other test locations to evaluate vertical and lateral extents of potential impact.

The following samples were delivered under chain-of-custody control to ALS Environmental (ALS) located in Rochester, New York, which is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified analytical laboratory. The submitted samples were comprised of fill and native soils as follows:

- Fill material generally consisting of silts and sands with varying amounts of ash, cinders, brick, concrete, etc. was observed in samples TP-01(3.0-4.0), TP-02(4.0), TP-04(6.0-7.0), TP-05(6.0), TP-06(5.5), TP-07(4.0), TP-08(5.5), TP-09(7.0), TP-10(5.0), TP-12(5.0), TP-13(1.0-2.0), TP-14(3.5), TP-14(8.5), TP-17(4.0), TP-19(3.0-4.0), TP-20(9.0), TP-22(4.0-5.0) TB-01(4.0), TB-02(8.0), TB-04(2.5), TB-07(5.5), TB-10(15.0), TB-21(5.0), TB-24(2.5) and MW-08(6.0-8.0).

- Indigenous soils generally consisting of silts and sands with some gravel were observed in samples TP-01(6.0), TP-02(10), TP-06(9.0), TP-13(7.0), TB-13(8.0), TB-14(7.0), TB-15(7.0-7.5), TB-18(10.0-11.0), TB-19(10.0), TB-20(3.0), TB-22(12.0)..

Samples were analyzed for one or more of the following:

- Target Compound List (TCL) and Commissioner Policy 51 (CP-51)-list VOCs using United States Environmental Protection Agency (USEPA) Method 8260;
- TCL SVOCs using USEPA Method 8270;
- Resource Conservation and Recovery Act (RCRA) metals using USEPA Methods 6010 and 7471;
- PCBs using USEPA Method 8082;
- Pesticides using USEPA Method 8081; and/or
- Cyanide using USEPA Method 9012.

The following samples were delivered under chain-of-custody control to Paradigm Environmental Services, Inc. (Paradigm) located in Rochester, New York, which analyzed the samples for asbestos using a polarized light microscopy (PLM) method:

- Samples TP-04(6.0-7.0), TP-05(6.0), TP-06(5.5), TP-08(5.5), TP-17(4.0), TP-19(3.0-4.0), which were fill material and generally consisted of silts and sands with varying amounts of ash, cinders, brick, concrete, etc.

Refer to Table 2 for a summary of the analytical laboratory testing program utilized during the project.

## **2.3 Groundwater Evaluation**

An environmental groundwater evaluation was performed as part of this project. The evaluation included: installation and development of eight monitoring wells; survey of well locations using GPS and laser level equipment in relation to City of Rochester datum; collection of two rounds of static water levels from the eight monitoring wells; collection of the two rounds of groundwater samples from the eight monitoring wells; and analytical laboratory testing of the two round of groundwater samples that were collected from the wells. Additional detail concerning this work is provided in the subsections below.

### 2.3.1 Monitoring Well Installation

Between February 20, 2018 and February 28, 2018, test borings MW-01 through MW-08, were converted to groundwater monitoring wells, refer to Figure 3 and Figure 3A through Figure 3E. Each groundwater monitoring well was constructed with a 2-inch inner diameter Schedule 40 polyvinyl chloride (PVC) screen attached to solid riser piping of the same material. Monitoring well MW-01 was installed as an overburden groundwater monitoring well with a screened interval that extended to approximately 0.5 ft. above bedrock. Monitoring wells MW-02 through MW-08 were overburden/bedrock interface wells with screened intervals that span the overburden groundwater zone and extend approximately 5 feet into the bedrock groundwater zone. Well construction diagrams for each monitoring well that provide additional specifics are included in Appendix C.

### 2.3.2 Well Development

On March 1, 2018, DAY developed the new groundwater monitoring wells by removing groundwater from each well and taking water quality measurements using a Horiba U-22 water quality meter. DAY screened the ambient air inside each of the eight wells with a PID upon being opened, and PID readings in parts per million (ppm) were recorded. The above information is summarized on well development logs that are included in Appendix D.

### 2.3.3 Groundwater Sampling and Analysis

On March 9, 2018, DAY obtained water level measurements and checked for light non-aqueous phase liquid (LNAPL) and dense aqueous phase liquid (DNAPL) using an oil/water interface probe in each of the eight on-site monitoring wells. On April 16, 2018, DAY obtained water level measurements and checked for LNAPL using an oil/water interface probe in each of the eight on-site monitoring wells.

During the March 9, 2018 sampling event, two of the eight wells (i.e., MW-02 and MW-08) were tested for VOCs, SVOCs and metals; thus, were sampled using low-flow sampling techniques to minimize potential sediment/turbidity influence on the analytical laboratory test results. The remaining six wells (i.e., MW-01 and MW-03 through MW-07) were only tested for VOCs; thus, were sampled using conventional purge and sample techniques. Monitoring wells MW-01 through MW-08 were tested a second time for VOCs on April 16, 2018 using conventional purge and sample techniques. Monitoring well sampling logs are included in Appendix D. The groundwater samples from both groundwater sampling events were submitted to ALS for laboratory analysis.

Groundwater samples collected on March 9, 2018 from monitoring wells MW-02 and MW-08 were analyzed for:

- TCL and CP-51 VOCs using USEPA Method 8260,
- TCL and CP-51 SVOCs using USEPA Method 8270, and
- RCRA Metals using USEPA Methods 6010 and 7470.

Groundwater samples collected on March 9, 2018 from monitoring wells MW-01 and MW-03 through MW-07 were analyzed for:

- TCL and CP-51 VOCs using USEPA Method 8260.

Groundwater samples collected on April 16, 2018 from monitoring wells MW-01 through MW-08 were analyzed for:

- TCL and CP-51 VOCs using USEPA Method 8260.

Trip blank samples accompanied the March 9, 2018 and April 16, 2018 groundwater samples to ALS (designated as TBlank-1 and TBlank-2, respectively). Trip blank samples were analyzed by ALS for TCL and CP-51 list VOCs using USEPA Method 8260.

The City of Rochester surveyed the elevation of each monitoring well using a laser level. The surveyed elevations are relative to RTS Monument No. 1230500106 (elevation 541.951 feet) and RTS Monument No. 120410104 (elevation 524.565 feet).: Refer to Table 3 and 4 for the measured elevations of the top center lid and north edge of inner PVC for monitoring wells MW-01 through MW-08.

## **2.4 Geotechnical Assessment**

DAY retained Foundation Design, P.C. to perform a geotechnical assessment concurrently with the environmental evaluation. As part of the geotechnical assessment, representatives of Foundation Design P.C. documented and observed subsurface conditions during the advancement of test borings that were performed on February 12, 2018, test pits that were performed on February 15, 2018 and rotary-drilled wells on February 20, 2018. The information obtained by DAY and Foundation Design P.C. was shared as part of this project. A copy of the geotechnical report prepared by Foundation Design P.C. is included in Appendix E.

## **2.5 Study-Derived Wastes**

Soil and drill cuttings were placed in a roll-off dumpster that was staged on-site. Drilling water, decontamination water and well purge water were placed in two New York State Department of Transportation (NYSDOT)-approved 55-gallon drums, labeled, and staged on-site at a common location. DAY subsequently arranged for the transportation and disposal of the study-derived wastes. A copy of disposal documentation for the study-derived wastes is included in Appendix F.

### 3.0 FINDINGS

The results and findings of this project are presented in this section of the report.

#### 3.1 Subsurface Soil/Fill Environmental Evaluation

Much of the Site is covered by 0.5 foot or less layer of topsoil or asphalt pavement. With the exception of six test locations, heterogeneous fill material is present beneath the topsoil and asphalt pavement. The consistency of this fill varies from parcel to parcel. The majority of fill observed consisted of reworked soil (i.e., various mixtures of silt, sand, gravel and cobbles) with lesser amounts of topsoil, ash, cinders, coal, asphalt, brick, concrete, organics, wood, metal, and/or plastic. However, some locations (e.g., TP-01, TP-07, TP-09, TP-10, TP-11, TP-12, TP-14, TP-15, TP-18 and TP-19) contained approximately 20% to 90% larger debris, such as concrete, brick, concrete block, rock, metal and wood. At many locations, this fill material extended to the top of bedrock. In many instances, fill material within the footprints of former buildings extended to apparent basement floors that were left in-place during their demolition. At other locations, the fill was underlain by indigenous soils. As presented on Figure 4, test locations within the center of the Site and the parcels along Kensington and West Main Street Site boundaries contained the greatest thickness of fill, with the greatest thickness of fill (15.8 ft) being observed in TB-10 located along Kensington Street. The average fill thickness for the Site was calculated to be approximately 5.3 ft. The greatest fill thicknesses appear to be associated with former building footprints (i.e., backfilled basements) and in the center of the Site where a natural low spot (e.g., natural depression, etc.) may have existed. It is plausible that this natural depression was filled in to increase the elevation prior to urban development. This observed fill material is assumed to be historic fill material.

In addition to the fill material described above, fill containing greater than 50% ash and/or cinders were also identified at the Site. Of the 61 test boring and test pit locations included in this study, and the eight test locations previously advanced at 50 York Street and 5 Kensington Street, fourteen of these test locations contained ash/cinder fill that was documented to be 0.5 feet or greater in thickness (refer to Figure 4). As shown, the test locations in which a prevalent quantity of ash/cinder fill was identified are located in the center of the Site and spans the area between York Street and Kensington Street.

Indigenous soils beneath the topsoil, asphalt pavement, or fill material generally consists of sand and silt with lesser amounts of gravel. The overburden soil and fill at the Site are underlain by Dolomite bedrock of the Eramosa (Lockport) Formation. The depth to bedrock at the rotary test borings ranged from approximately 3.9 ft. bgs (MW-04) to 13.0 ft. bgs (MW-02), and the average depth to bedrock in these test borings is approximately 9.1 ft. bgs. Refusal on inferred top of bedrock (i.e., direct-push test boring refusal, rotary test boring refusal, and test pit refusal in which an irregular surface was observed) was encountered at depths ranging between approximately 3.5 ft. bgs (TP-23) and 15.8 ft. bgs (TB-10) with an average depth of 9.0 ft. bgs. In general, the depth to bedrock follows the existing topography of the Site with the shallowest depths to bedrock being along West Main Street and the greatest depths to bedrock being in the middle of the Site and the east side of the Site along Kensington Street (the areas with the greatest thickness of fill). Refer to Figure 2A for a topographic survey of the Site and Figure 5 for a site plan that depicts inferred bedrock contours.



### 3.1.1 Environmental Analytical Laboratory Test Results for Soil/Fill Samples

Test results for VOCs, SVOCs, metals, PCBs, pesticides and toxicity characteristic leaching procedure (TCLP) metals are summarized on Table 5, Table 6, Table 7, Table 8, Table 9, and Table 10, respectively. Copies of the ALS laboratory reports are included in Appendix G. Although the Site is not currently within an environmental program mandated by the New York State Department of Environmental Conservation (NYSDEC), the test results for the soil/fill samples that were tested as part of this study are compared to the following criteria referenced in the NYSDEC document titled “6 *NYCRR Part 375, Environmental Remediation Programs*” dated December 14, 2006.

- UUSCOs;
- RSCO;
- RRSCO;
- CSCOs; and
- PGWSCO.

The test results and comparison to the above criteria are further discussed below. Comparisons to UUSCOs and RSCO assist in evaluating potential re-use of soil and fill both on-site and off-site in accordance with Part-360 regulations and other applicable state and federal regulations.

#### VOCs

As shown on Table 5, VOCs were detected in 15 of the 16 samples that were tested. VOCs detected in one or more sample included: acetone; benzene; 2-butanone; n-butylbenzene; sec-butylbenzene; tert-butylbenzene; carbon disulfide; cyclohexane; ethylbenzene; isopropylbenzene; p-isopropyltoluene; methylene chloride; methylcyclohexane; n-propylbenzene; styrene, 1,1,2,2-tetrachloroethane, tetrachloroethane; toluene; trichloroethene; trichlorofluoromethane; 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; m,p-xylene and o-xylene. Concentrations of specific VOCs detected ranged between 0.0003 and 27.00 mg/kg or ppm. Many of the detected concentrations were qualified as estimated (designated by a “J” next to constituent concentration on summary tables) by the analytical laboratory since they were detected below the method detection limit. The VOCs methylene chloride and acetone are common laboratory artifacts; thus, their concentrations detected in the field samples could be attributable to laboratory artifacts.

As shown on Table 5, soil samples from four test locations [TB-07 (5.5), TB-14 (7.0), TP-22 (4.0-5.0) and MW-08 (6.0-8.0)] contained concentrations of VOCs that exceeded one or more SCOs for one or more constituents, (refer to Figure 6 and Figure 7). Three of the samples consisted of fill material, and one of these samples consisted of apparent indigenous soil. The remaining 12 soil samples tested did not contain a constituent concentration exceeding UUSCOs. A summary of the detected VOCs exceeding one or more SCOs is as follows:

- Sample TB-07 (5.5) contained acetone at a concentration exceeding its UUSCO and PGWSCO. [Note: The acetone detected in the sample may be a laboratory artifact.]

- Sample TB-14(7.0) contained 1,2,4-trimethylbenzene and m,p-xylene at concentrations exceeding their UUSCOs and PGWSCO.
- Sample TP-22 (4.0-5.0) contained 1,2,4-trimethylbenzene at a concentration exceeding its UUSCO and PGWSCO.
- Sample MW-08(6.0-8.0) contained benzene, ethylbenzene, toluene, m,p-xylene, and o-xylene at concentrations exceeding their UUSCOs and/or PGWSCO.

The remaining concentrations of VOCs detected in these samples did not exceed their respective UUSCOs, RSCO, RRSCO, CSCO, or PGWSCO.

The measured constituent concentrations of the sixteen soil/fill samples submitted to an analytical laboratory for testing of VOCs were compared to the various criteria previously identified and summarized below:

- Four of the 16 samples contained one or more constituent concentrations exceeding their respective UUSCOs.
- Zero of the 16 samples contained one or more constituent concentrations exceeding their respective RSCO.
- Zero of the 16 samples contained one or more constituent concentrations exceeding their respective RRSCO.
- Zero of the 16 samples contained one or more constituent concentrations exceeding their respective CSCO.
- Four of the 16 samples contained one or more constituent concentrations exceeding their respective PGWSCO.

The samples that exceeded one or more UUSCOs for VOCs are identified on Figure 6. The samples that exceeded one or more PGWSCO, RRSCO and/or CSCO are identified on Figure 7.

### SVOCs

As shown on Table 6, SVOCs were detected in 19 of the 27 soil samples that were tested. SVOCs detected in one or more sample included: acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; biphenyl; butyl benzyl phthalate; carbazole; chrysene; dibenzo(a,h)anthracene; dibenzofuran; fluoranthene; fluorene; indeno(1,2,3-cd)pyrene; 2-methylnaphthalene; 3&4-methylphenol; naphthalene; phenanthrene; and pyrene. Concentrations of specific SVOCs detected ranged between 0.086 and 20 mg/kg or ppm. Many of the detected concentrations were qualified as estimated by the analytical laboratory since they were detected below the method detection limit.

Fill material samples from ten test locations [TB-14 (7.0), TP-01(3.0-4.0), TP-07(4.0), TP-08(5.5), TP-09(7.0), TP-12(5.0), TP-14(3.5), TP-17(4.0), TP-20(9.0) and TP-22(4.0-5.0)] contained concentrations of SVOCs that exceeded one or more SCOs for one or more constituents, refer to Figure 6 and Figure 7. None of the apparent indigenous soil samples that were tested had SVOC concentrations exceeding UUSCOs. The concentrations of the

SVOCs detected in the other nine samples were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs, and PGWSCOs. A comparison of the detected SVOC concentrations to SCOs is summarized below:

- Sample TB-14 (7.0) contained 2-methylnaphthalene at a concentration exceeding its RSCO. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs, and PGWSCOs.
- Sample TP-01(3.0-4.0) contained benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs and RRSCOs; however, measured concentrations were below CSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-07(4.0) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; chrysene; and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs and/or PGWSCOs. Only the benzo(a)pyrene concentration in this sample exceeded its CSCO. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-08(5.5) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; indeno(1,2,3-cd)pyrene and 2-methylnaphthalene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs and/or PGWSCOs. Only the concentration of benzo(a)pyrene and dibenzo(a,h)anthracene in this sample exceeded their respective CSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-09(7.0) contained benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene at concentrations that exceeded their respective UUSCOs, RSCOs, and RRSCOs. None of the detected constituents exceeded their PGWSCOs and CSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-12(5.0) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs, and/or PGWSCO. Only the concentration of benzo(a)pyrene exceeded its CSCO. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-14(3.5) contained benzo(a)pyrene; benzo(b)fluoranthene; chrysene; and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs, and/or PGWSCOs. Only the concentration of benzo(a)pyrene in this sample exceeded its CSCO. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-17(4.0) contained benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene at concentrations that exceeded their respective UUSCOs, RSCOs and RRSCOs. None of the measured constituent concentrations exceeded their respective PGWSCOs and CSCOs.

The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

- Sample TP-20(9.0) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; and indeno(1,2,3-cd)pyrene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs and/or PGWSCOs. Only the concentration of benzo(a)pyrene in this sample exceeded its CSCO. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-22(4.0-5.0) contained benzo(a)anthracene, benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; dibenzo(a,h)anthracene; indeno(1,2,3-cd)pyrene; and 2-methylnaphthalene at concentrations that exceeded one or more of their respective UUSCOs, RSCOs, RRSCOs and/or PGWSCOs. The concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(a,h)anthracene; and indeno(1,2,3-cd)pyrene also exceeded their respective CSCOs. The concentrations of the other SVOCs detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

The measured constituent concentrations of the twenty-seven soil/fill samples submitted to an analytical laboratory for testing of SVOCs were compared to the various criteria previously identified and summarized below:

- Nine of the 27 samples contained one or more constituent concentrations exceeding their respective UUSCOs.
- Ten of the 27 samples contained one or more constituent concentrations exceeding their respective RSCOs.
- Nine of the 27 samples contained one or more constituent concentrations exceeding their respective RRSCOs.
- Six of the 27 samples contained one or more constituent concentrations exceeding their respective CSCOs.
- Six of the 27 samples contained one or more constituent concentrations exceeding their respective PGWSCOs.

The samples that exceeded one or more UUSCOs for SVOCs are identified on Figure 6. The samples that exceeded one or more PGWSCOs, RRSCOs and/or CSCOs are identified on Figure 7.

## Metals

RCRA metals were detected in each of the 27 samples that were tested. A comparison of the detected concentrations of metals in these samples to SCOs is provided on Table 7, and is also summarized below:

- Sample TB-01(3.0) contained lead and mercury at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TB-02(8.0) contained lead and mercury at concentrations that exceeded their respective UUSCOs. The concentration of mercury also exceeded its respective RSCOs,

RRSCOs, CSCOs and/or PGWSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

- Sample TB-04(2.5) contained lead at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-01(3.0-4.0) contained lead and mercury at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-02(4.0) contained lead and mercury at concentrations that exceeded their respective UUSCOs. The concentration of mercury also exceeded its respective RSCOs, RRSCOs, CSCOs and/or PGWSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-06(5.5) contained lead and mercury at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-06(9.0) contained mercury at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-08(5.5) contained mercury at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-09(7.0) contained lead and mercury at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-10(5.0) contained lead and mercury at concentrations that exceeded their respective UUSCOs. The concentration of mercury also exceeded its respective RSCOs, RRSCOs, and PGWSCOs; however, the measured concentration was below its CSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-12(5.0) contained lead and mercury at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-13(7.0) contained arsenic, cadmium, chromium and lead at concentrations that exceeded one or more of their respective UUSCOs, RSCOs and RRSCOs. The concentration of arsenic also exceeded its CSCO and PGWSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-14(3.5) contained lead and mercury at concentrations that exceeded their UUSCOs, RSCOs, RRSCOs and PGWSCO; however, the measured concentrations were below their respective CSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

- Sample TP-17(4.0) contained lead at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-19(3.0-4.0) contained lead at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-20(9.0) contained lead and mercury at concentrations that exceeded their UUSCOs, RSCOs, RRSCOs and PGWSCO; however, the measured concentrations were below their respective CSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-22(4.0-5.0) contained lead and mercury at concentrations that exceeded their UUSCOs. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.
- Sample TP-24(4.0) contained lead at a concentration that exceeded its UUSCO. The concentrations of the other metals detected in this sample were below their respective UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

The measured constituent concentrations of the twenty-eight soil/fill samples submitted to an analytical laboratory for testing of metals were compared to the various criteria previously identified and summarized below:

- Eighteen of the 27 samples contained one or more constituent concentrations exceeding their respective UUSCOs.
- Six of the 27 samples contained one or more constituent concentrations exceeding their respective RSCOs.
- Six of the 27 samples contained one or more constituent concentrations exceeding their respective RRSCOs
- Three of the 27 samples contained one or more constituent concentrations exceeding their respective CSCOs.
- Six of the 27 samples contained one or more constituent concentrations exceeding their respective PGWSCOs.

The metal constituents with the greatest level and number of exceedances were lead and mercury. The results for mercury ranged between not detected to 11.8 ppm. The results for lead ranged between 3.5 ppm and 651 ppm.

The samples that exceeded one or more UUSCO for metals are identified on Figure 6. The samples that exceed one or more PGWSCO, RRSCO, or CSCO for metals are identified on Figure 7.

### Cyanide

As shown on Table 7, cyanide was detected in the two samples that were tested were above the detection limit utilized by the analytical laboratory, but were below the UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

## PCBs

As shown on Table 8, the concentrations of PCBs in the two samples tested were below the detection limit utilized by the analytical laboratory; thus, were below the UUSCOs, RSCOs, RRSCOs, CSCOs and PGWSCOs.

## Pesticides

As shown on Table 9, pesticides were detected in the two samples that were tested. Samples TP-04(6.0-7.0) and TP-12(5.0) contained 4,4'-DDT(p,p') at concentrations exceeding its UUSCO, but below its RSCO, RRSCO, CSCO and PGWSCO. Sample TP-04(6.0-7.0) also contained Dieldrin and 4,4'-DDE at concentrations exceeding their respective UUSCOs, but below their respective RSCOs, RRSCOs, CSCOs and PGWSCOs.

## Asbestos

Asbestos was not detected in the six fill material samples that were tested.

## Toxicity Characteristic Leaching Procedure (TCLP) Metals

Three soil samples [TP-02(4.0), TP-13(1.0-2.0) and TP-14(3.5)] that generally contained the highest concentrations of one or more metals that exceeded SCOs were submitted for testing of TCLP metals. As shown on Table 10, samples TP-02(4.0), TP-13(1.0-2.0) and TP-14(3.5) did not contain TCLP metals exceeding the TCLP regulatory levels for the toxicity characteristic.

### **3.2 Groundwater Environmental Evaluation**

LNAPL and/or DNAPL were not detected at the eight on-site wells during the March 9, 2018 and April 16, 2018 monitoring events.

Using the surveyed well elevations and static water level measurements from March 9, 2018 and April 16, 2018 the groundwater elevations for on-site wells were calculated for each date, refer to Table 3 and Table 4 respectively. Potentiometric groundwater contour maps for the March 9, 2018 and April 16, 2018 monitoring events were developed and are included as Figure 8 and Figure 9. As shown, groundwater flow on March 9, 2018 and April 16, 2018 was to the northwest, towards Danforth Street and away from West Main Street. The CSOP sub-grade tunnel with groundwater control is located approximately 500 ft from the Site in the downgradient direction (i.e., the tunnel is located northwest of the Site). It is possible that the presence of this tunnel is influencing the groundwater conditions at the Site.

#### 3.2.1 Environmental Analytical Laboratory Test Results for Groundwater Samples

The groundwater samples collected from wells MW-01 through MW-08 on March 9, 2018 and April 16, 2018 were analyzed by ALS for: TCL and CP-51 VOCs using USEPA Method 8260. In addition, the March 9, 2018 groundwater samples from monitoring wells MW-02 and MW-08 were also tested for: TCL SVOCs using USEPA Method 8270 and RCRA metals

using USEPA Methods 6010 and 7470 (refer to Table 2). Copies of the ALS laboratory reports are included in Appendix G.

The VOCs, SVOCs, and RCRA metals test results for the March 9, 2018 and April 16, 2018 groundwater samples are included in Table 11. A comparison of the March 9, 2018 and April 16, 2018 test results to groundwater standards or guidance values referenced in the NYSDEC document titled “Division of Water Technical and Operational Guidance Series 1.1.1; Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations” dated June 1998 as amended with April 2000 and June 2004 addendum tables (TOGS) are included on Table 11. The results and comparison to the TOGS 1.1.1 groundwater standards are summarized below:

- VOCs were not detected at concentrations above analytical laboratory detection limits in the March 9, 2018 groundwater samples collected from MW-01 through MW-08. VOCs were detected in groundwater samples collected on April 16, 2018 from monitoring wells MW-01, MW-02, MW-04, MW-05, MW-07 and MW-08; however, none of the detected concentrations exceed NYSDEC TOGS 1.1.1 standards and guidance values. Specific VOCs detected in one or more of these April 16, 2018 groundwater samples included: acetone; tert-butylbenzene, carbon disulfide, chloroform; 1,1-dichloroethane, cyclohexane, and methylcyclohexane.
- Only the SVOC naphthalene was detected in the March 9, 2018 groundwater sample collected from MW-02. The concentration of the naphthalene in this sample did not exceed its respective NYSDEC TOGS 1.1.1 guidance value. No other SVOCs were detected in the sample collected from MW-02 on March 9, 2018. SVOCs were not detected in the March 9, 2018 groundwater sample collected from monitoring well MW-08 at concentrations above reported analytical laboratory detection limits. SVOCs were not tested during the April 16, 2018 groundwater sampling event.
- The metal barium was detected in the groundwater samples collected on March 9, 2018 from MW-02 and MW-08. The concentrations of barium detected in MW-02 (i.e., 138 ug/l) and MW-08 (i.e., 78 ug/l) were below the TOGS 1.1.1 standard of 1,000 ug/l. No other RCRA metals were detected in these two groundwater samples. Metals were not tested during the April 16, 2018 groundwater sampling event.

VOCs were not detected in the March 9, 2018 Quality Assurance/Quality Control (QAQC) Trip Blank (Sample TBlank-1) at concentrations above reported analytical laboratory detection limits. Acetone was detected in the April 16, 2018 QA/QC Trip Blank (Sample TBlank-2) at a concentration exceeding the detection limit utilized by the analytical laboratory. The QA/QC Trip Blank laboratory results can be found in Appendix G.

### **3.3 Geotechnical Assessment**

A copy of the geotechnical report prepared by Foundation Design P.C. is included in Appendix E. The report includes an assessment of subsurface conditions, and conclusions and recommendations based on evaluation of site conditions in relation to geotechnical concerns associated with redevelopment of the Site.



In summary, the geotechnical assessment report indicates that the typical subsurface profile consists of heterogeneous fill material over marsh deposits or glacial till, then bedrock. The geotechnical quality of the fill material across the Site varied from relatively clean earth fill to fill of marginal and poor quality (i.e., containing 40 to 60% building debris, such as concrete, brick and metal).

The geotechnical report concluded that the in-place fill is not suitable as is to support foundations or floors of new structures, and that building on the in-place fill could result in varying amounts of settlement over time. In addition, the shallow bedrock on portions of the Site needs to be considered in relation to design and construction of new buildings.

Figure 10 depicts fill material use restrictions during redevelopment based on geotechnical conditions observed at test locations completed as part of this study and at the two TIO parcels. The geotechnical conditions on the parcels studied were characterized into one or more the three categories:

- Fill Material Not Acceptable for Use at Buildings or Parking Lots (highlighted red).
- Fill Material Not Acceptable for Use at Buildings, but Acceptable for Re-Use at Parking Lots after Reworking and/or Sorting (highlighted orange).
- Fill Material Not Acceptable for Use at Buildings "As Is", but Acceptable for Re-Use at Buildings and Parking Lots after Reworked and/or Sorting (highlighted green).
- Fill Material that has not been investigated and therefore not characterized (unshaded).

In general, and as shown on Figure 10, the following trends were observed based on the limited data collected during the Phase II Investigations completed at the Site and the TIO parcels:

- Fill material not acceptable for building or parking lot use is located in the center and east side of the Site. If disturbed or removed this material is likely to be considered a historic fill material subject to industrial solid waste regulations and disposal requirements.
- Fill material not acceptable for use at buildings, but acceptable for re-use at parking lots after reworking and/or sorting is located on the south and east portions of the site as well as select locations in which a fill transitions from the unacceptable category to acceptable after reworking and/or sorting category.
- Fill material not acceptable for use at buildings "as is", but acceptable for re-use at buildings and parking lots after reworking and/or sorting is located on the southern portions of the Site along West Main Street and the northern portions of the Site along York Street.

Actual subsurface conditions and fill boundaries encountered during redevelopment may differ from those presented herein. Figure 10 and the fill characterization site model for should be updated as additional information becomes available. Also, a qualified geotechnical representative should be present during site redevelopment activities that disturb the subsurface to confirm the conclusions regarding fill re-use specifications presented herein.

The geotechnical conclusions and recommendations are provided in Section 4.2.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

This section of the report summarizes the findings of the pre-development Phase II ESA and geotechnical studies that were performed at the Site, and also provides conclusions and recommendations as they pertain to environmental and geotechnical conditions that should be considered when planning and implementing the redevelopment of the Site. This investigation only included environmental and geotechnical assessment of 12 City-owned parcels, and the previous Confirmatory Phase II ESAs that were conducted for the City on the 50 York Street and 5 Kensington Street TIO parcels. The conclusions and recommendations provided herein assume future redevelopment to consist primarily of commercial re-use, but may also include some mixed residential and commercial uses.

Based on the environmental and geotechnical Site conditions identified during this study, and on current City plans for redevelopment of the Site, restricted residential use and/or restricted commercial use as defined in NYSDEC Part 375-1.8 are viable options if corrective actions such as those identified herein are implemented.

Restricted residential use allows common ownership or a single owner/managing entity of the site, and active recreational uses that are public uses with a reasonable potential for soil contact. Restricted residential use restricts or prohibits:

- Single family housing; and
- Vegetable gardens, although community vegetable gardens could possibly be considered with regulatory agency approval.

Commercial components would likely not require common ownership, and also allow passive recreational uses, which are public uses with limited potential for soil contact.

### 4.1 Environmental Considerations

Heterogeneous fill material is present across most of the Site. A majority of the fill material consists of re-worked soil (i.e., various mixtures of silt, sand, gravel and cobbles) with lesser amounts of topsoil, ash, cinders, coal, asphalt, brick, concrete, organics, wood, metal and/or plastic. Some locations contained approximately 20% to 90% larger debris such as concrete, brick, concrete block, rock, metal and wood. The consistency of the fill material changes from parcel to parcel, and some of it may be associated with backfilling basements/grading over time as former buildings were demolished. In addition, an apparent older fill material containing greater than 50% ash and/or cinders (>0.5 feet thick) was also observed in the center of the Site spanning the area between York Street and Kensington Street. It is suspected that this older ash/cinder laden fill may have been deposited prior to any development on this portion of the Site.

Indigenous soils (mostly first encountered beneath the fill material) generally consists of sand and silt with lesser amounts of gravel. The overburden soil and fill at the Site are underlain by Dolomite bedrock of the Eramosa (Lockport) Formation. The depth to bedrock at the rotary test borings ranged from approximately 3.9 ft. to 13.0 ft. bgs, and the average depth to bedrock is approximately 9.1 ft. bgs. Refusal on inferred top of bedrock (i.e., direct push test boring refusal, rotary test boring refusal and test pit refusal in which an irregular surface was

observed) was encountered at depths ranging between approximately 3.5 ft. bgs and 15.8 ft. bgs with an average depth of 9.0 ft. bgs. A summary of the analytical laboratory results obtained during this study is provided below:

- Four of the sixteen soil/fill samples tested contained concentrations of one or more VOCs exceeding their respective UUSCOs and/or PGWSCOs, but did not exceed their RSCOs, RRSCOs or CSCOs.
- Eighteen samples of soil/fill analyzed during this study were found to contain concentrations of the metals mercury, lead, arsenic and/or cadmium that exceeded their respective UUSCOs, RSCOs, RRSCOs and/or PGWSCOs. In addition, fill samples TB-02(8.0) and TP-02(4.0) contained mercury and TP-13(1.0-2.0) contained arsenic, at concentrations that exceeded their respective CSCOs.
- Ten of the twenty-eight samples tested contained one or more SVOCs at concentrations exceeding their respective UUSCOs, RSCOs, RRSCOs and/or PGWSCOs.
- Six of the twenty-eight soil/fill samples tested during this study were found to contain concentrations of one or more SVOC that exceeded their respective CSCOs.
- Neither of the two samples tested for cyanide contained concentrations exceeding its UUSCO, RSCO, RRSCO, CSCO or its PGWSCO.
- The two samples tested for PCBs did not contain a constituent concentration exceeding the detection limit utilized by the analytical laboratory.
- Both of the samples tested for pesticides contained one or more constituents exceeding their respective UUSCOs; however, the measured concentrations did not exceed their respective RSCOs, RRSCOs, CSCOs or PGWSCOs.
- The three samples tested for TCLP metals did not exceed the concentration thresholds for toxicity characteristic.
- The six samples tested for asbestos were found to contain no asbestos (i.e., listed as 0%).

A summary of test results in relation to samples media is presented below:

- Fill containing more than de minimis amounts of ash and/or cinders were identified at the Site. This material likely would not be allowed to be beneficially used on-site or off-site, and may require additional characterization testing and disposal at a regulated NYSDEC Part 360 landfill facility. Of the 61 test boring and test pit locations, eleven samples contained a prevalent quantity of ash/cinder fill (defined as 0.5 feet of ash/cinder fill thickness or greater). Ash/cinder fill from eight of these eleven locations were tested for one or more analytical laboratory parameters, and seven of the samples contained one or more constituents that exceeded one or more SCOs, five of which also exceeded CSCOs. In general, the eleven locations in which a prevalent quantity of ash/cinder fill was identified are located in the center of the Site and on the northeast side of the Site. [Note, three test locations on the 5 Kensington Street parcel that adjoins some parcels covered by this study also contained fill material with more than de minimis amounts of ash and/or cinders.] If disturbed or removed, it should be assumed that this ash/cinder fill material would be characterized as a historic fill material and be considered an industrial solid waste.

- Fill samples containing de minimis amounts of ash and/or cinders were also identified at the Site in twenty test locations. This material may be suitable for on-site use or off-site as a beneficial use determination (BUD) material following additional evaluation in accordance with applicable regulations. Seventeen of the twenty fill samples that were tested that contained de minimis quantities of ash and/or cinders contained one or more analytical laboratory parameters that exceeded one or more SCOs. In addition, four of the twenty fill samples that were tested that contained de minimis quantities of ash and/or cinders also exceeded one or more CSCOs.
- Of the fourteen indigenous soil samples that were tested for one or more analytical laboratory parameters, two samples contained one or more constituents at concentrations that exceed their respective UUSCOs and/or PGWSCOs, but did not exceed their respective RSCOs, RRSCOs, or CSCOs.

Based on the subsurface evaluation performed to date, areas of fill material at the Site will require specialized handling/disposal as a construction and demolition (C&D) waste or solid waste if displaced during redevelopment or other future activities. The remaining reworked soil fill likely could be re-used on-site and could be exempt from being considered a regulated solid waste requiring off-site disposal if pre-determined and/or case-specific beneficial use determinations (BUDs) referenced in NYSDEC Part 360 (Solid Waste Management Facilities) §360-1.15 (Beneficial Use) are obtained.

Petroleum impacted soil is present on the northern portion of the 906-910 West Main Street parcel and a portion of the Ruby Place Public ROW. Field evidence (e.g., odors and elevated PID readings) of petroleum impacted groundwater was observed at MW-08 located in the Ruby Place Public ROW. In addition, access to parcels [i.e., 24 York Street (former gas station), 932-938 West Main Street, (auto collision shop) or 924-930 West Main Street (heating oil furnace facility with suspect petroleum-based product disposal history) in which petroleum use and storage was known or suspected to occur was not provided. As such, these parcels are data gaps that could influence the conclusions and recommendations stated herein.

No VOCs were detected in the March 9, 2018 groundwater samples from monitoring wells MW-01 through MW-08 at concentrations exceeding the laboratory detection limits. Several VOCs were detected in the April 16, 2018 groundwater samples collected from multiple groundwater monitoring wells; however, the detected concentrations were below TOGS 1.1.1 standards and guidance values. While the SVOC naphthalene was detected in the sample collected on March 9, 2018 from monitoring well MW-02, the measured concentration did not exceed its TOGS 1.1.1 groundwater standard. The metal barium was detected in the March 9, 2018 groundwater samples collected from monitoring wells MW-02 and MW-08; however, the concentrations did not exceed its TOGS 1.1.1 standard.

Based on the studies completed to date, soil vapor intrusion into new buildings or structures does not appear to be a concern across the majority of the Site. However, the areas in proximity to test boring TB-14 and monitoring well MW-08 where petroleum impacted soils were observed present a potential for soil vapor intrusion into new buildings or structures.

## Environmental Recommendations

Based on the studies performed and on the City's redevelopment plans, it is recommended that the following environmental activities be implemented:

1. Obtain access to the remaining parcels comprising the Bulls Head Sub Area North project area where subsurface conditions have not yet been investigated, and complete environmental and geotechnical investigative studies to characterize the subsurface conditions prior to redevelopment. Several of these outstanding parcels (i.e., 24 York Street, 932-938 West Main Street and 924-930 West Main) have a history of use/storage of petroleum products. The investigative studies could be completed prior to or during the City's acquisition of new parcels within the Bulls Head Sub Area North project area.
2. Further characterize, and possibly remediate, petroleum impacted soil in the area of TB-14 and possibly MW-08.
3. Further characterize environmental conditions at the 50 York Street and 5 Kensington Street TIO parcels.
4. Prepare and implement an Environmental Management Plan (EMP) to provide guidance on the identification, characterization, handling, staging, re-use and/or disposal of fill materials, soil, etc. that are disturbed or displaced as a result of the City's redevelopment activities. The EMP should also establish goals, procedures, appropriate response actions and contingency actions to be used by on-site personnel should fill material, contaminated groundwater, or other unknown contaminated media be encountered and disturbed in the future. The EMP should be tailored to provide specific and applicable guidance and provisions in relation to the City's Redevelopment plan for the Site, including the City's cut and fill grading plan. In addition, it is recommended that a site-specific Health and Safety Plan (HASP) be developed and included with the EMP to protect construction workers, on-site occupants, and the nearby community from exposures to environmental constituents in the fill material should it be disturbed (i.e. during redevelopment activities, construction activities, utility trenching, site grading, etc.). It is also recommended that an environmental project monitor (EPM) be on-site on a full-time basis to assist with implementation of the EMP during construction activities that have the potential to disturb subsurface impacted media. Examples include earthwork (trenching, grading, etc.) during redevelopment of the Site. The EPM can visually observe and field screen Site materials as they are disturbed/excavated, provide guidance on segregation, management and characterization of potentially impacted materials, provide guidance if unanticipated subsurface environmental conditions are encountered, and help with implementation of other EMP requirements.
5. Possibly obtain one or more beneficial use determination (BUD) to address: 1) on-site re-use of on-site soil/fill; and 2) import of certain geotechnical fill materials (e.g., soil, recycled concrete, etc.).
6. Prepare a master grading plan partly based on future development plans so that disturbance/displacement of impacted soil/fill material can be quantified in order to plan for environmental requirements and associated costs.
7. Although the potential for soil vapor intrusion into new buildings appears low, installing the below slab infrastructure of a sub-slab depressurization system (SSDS) for new structures should be considered as part of new development.

## 4.2 Geotechnical Considerations

The typical subsurface profile consists of heterogeneous fill material over marsh deposits or glacial till, then bedrock. The in-place fill is not suitable as is to support foundations or floors of new structures. In addition, the shallow bedrock on portions of the Site needs to be considered in relation to design and construction of new buildings.

As shown on Figure 10, the following trends were observed based on the limited data collected during the Phase II Investigations completed at the Site and the TIO parcels:

- Fill material not acceptable for building or parking lot use is located in the center and east side of the Site. If disturbed or removed this material is likely to be considered a historic fill material subject to industrial solid waste regulations and disposal requirements.
- Fill material not acceptable for use at buildings, but acceptable for re-use at parking lots after reworking and/or sorting is located on the south and east portions of the site as well as select locations in which a fill transitions from the unacceptable category to acceptable after reworking and/or sorting category.
- Fill material not acceptable for use at buildings “as is”, but acceptable for re-use at buildings and parking lots after reworking and/or sorting is located on the southern portions of the Site along West Main Street and the northern portions of the Site along York Street.

The following geotechnical conclusions and recommendations are provided for consideration:

1. “We conclude that the in-place fill is not suitable to support the foundations or floors for the new structure(s). The variable fill quality will result in erratic amounts of settlement as the fill continues to consolidate under its own weight. Organic matter within the fill will decompose with time, resulting in more settlement.

If constructed over this fill material, it is our opinion that floors and foundations would settle. This would result in unacceptable amounts of distress in masonry walls and building framing. Similar problems would be experienced by floors constructed over the fill. Floors would settle erratically, resulting in wavy, uneven, settled, and severely cracked surfaces.”

2. “Depending on site grades and finished floor grades, appropriate foundation approaches will vary. For conceptual planning, we suggest locating the commercial buildings along West Main Street and designing the Police Station as a free-standing structure, located as far north on the parcel as possible. Under this approach, we believe that removal of the in- place fill material and replacement with imported structure fill would be required for the building areas.

Any structure located in the center of the parcel (i.e., into the filled portion of 42 York Street) will require a deep foundation solution due to the highly compressible ash fill present. If an interconnected structure is used, foundations for the commercial building may require dropping the foundations to bear on bedrock to control differential settlement between spread footing supported commercial building and pile-supported Police Station.

It is recommended that the bedrock surface elevations/refusal depths at the test hole locations be reviewed when establishing level floor grade for the commercial building along West Main Street. Bedrock conflicts are possible. If bedrock is encountered, hoe-ramming or blasting would be required to remove the bedrock.”

3. “Where the fill is completely removed and replaced from building areas, standard slab-on-grade construction can be utilized. In areas where deep foundations are used to span over the in-place fill, structural floor slabs will be required, supported by deep foundations and grade beams. Where a structural slab is used, plan to hang the sub-floor utilities from the bottom of the structural slab.”
4. “NYS Building Code identifies various seismic design criteria for this project. We recommend using a Site Classification of D (Stiff Soil Profile). Based on the ASCE 7-10 guidelines, we recommend using the following seismic design parameters for this Risk Category IV structure.

Table No. 1 – Seismic Design Parameters – ASCE 7-10					
Spectral Response Acceleration		Soil Factors		Design Spectral Response Acceleration	
S <sub>s</sub>	S <sub>1</sub>	S <sub>ms</sub>	S <sub>m1</sub>	SD <sub>s</sub>	SD <sub>1</sub>
0.165g	0.060g	0.263g	0.143g	0.176g	0.095g

If you progress your design using ASCE 7-16 guidelines, we recommend using the following seismic design parameters for this Risk Category IV structure.”

Table No. 2 – Seismic Design Parameters – ASCE 7-16					
Spectral Response Acceleration		Soil Factors		Design Spectral Response Acceleration	
S <sub>s</sub>	S <sub>1</sub>	S <sub>ms</sub>	S <sub>m1</sub>	SD <sub>s</sub>	SD <sub>1</sub>
0.165g	0.048g	0.259g	0.116g	0.172g	0.077g

5. “Due to the depth of the in-place fill deposits, removal and replacement of the fill from under pavements is not practical. Since the new pavements will be supported by the in-place fill material, we suggest salvaging material removed from the building areas to raise grades for parking lots. This may require sorting out areas with high brick, ash, concrete, and wood concentrations.

Recognize that where new pavements are constructed over the in-place fill material, wavy, uneven, settled, and severely cracked surfaces are likely to develop long term. We recommend accepting the risk with long-term performance and incorporating measures into the pavement design to mitigate this risk. For conceptual planning, we recommend budgeting based on the Standard and Heavy-Duty pavement sections tabulated below.

Table No. 3 - Standard Section		
1.5"	Asphalt Topcoat	NYSDOT Item 403.178902
2.5"	Asphalt Binder	NYSDOT Item 403.138902
12.0"	Crusher-run Stone Subbase	NYSDOT Item 304.12
	Bi-axial Geogrid	Tensar BX-1200
	Subgrade	Approved Proof Roll

Table No. 4 — Heavy Duty Section		
1.5"	Asphalt Topcoat	NYSDOT Item 403.198902
2.5"	Asphalt Binder	NYSDOT Item 403.138902
15.0"	Crusher-run Stone Subbase	NYSDOT Item 304.12
	Bi-axial Geogrid	Tensar BX-1200
	Subgrade	Approved Proof Roll

We recommend sloping both the pavement surface and subgrade at slopes of at least 2.0 percent to facilitate water flow toward the stormwater system and prolong the pavement life. Drainage of the subbase is critical to proper performance of the pavements. Install 25-foot-long weeps off the storm inlets at low points to allow water out of the stone subbase and into the storm water system.”

6. It is recommended that a geotechnical project monitor (GPM) be on-site on a full-time basis during construction activities that have the potential to disturb subsurface media that is unsuitable for building or has building restrictions. Examples include earthwork (trenching, grading, etc.) during redevelopment of the Site. The GPM can visually observe Site materials as they disturbed/excavated in relation to geotechnical considerations, provide guidance on material segregation, sorting and compaction when materials are to be re-used, and provide guidance if unanticipated subsurface conditions are encountered that have the potential to impact geotechnical conditions.
  
7. This investigation only included environmental and geotechnical assessment of 12 City-owned parcels, and the 50 York Street and 5 Kensington Street parcels where previous Confirmatory Phase II ESAs were conducted for the City. It is recommended that geotechnical investigation work be conducted on the remaining parcels located within the Bulls Head Sub Area North project area prior to its redevelopment.

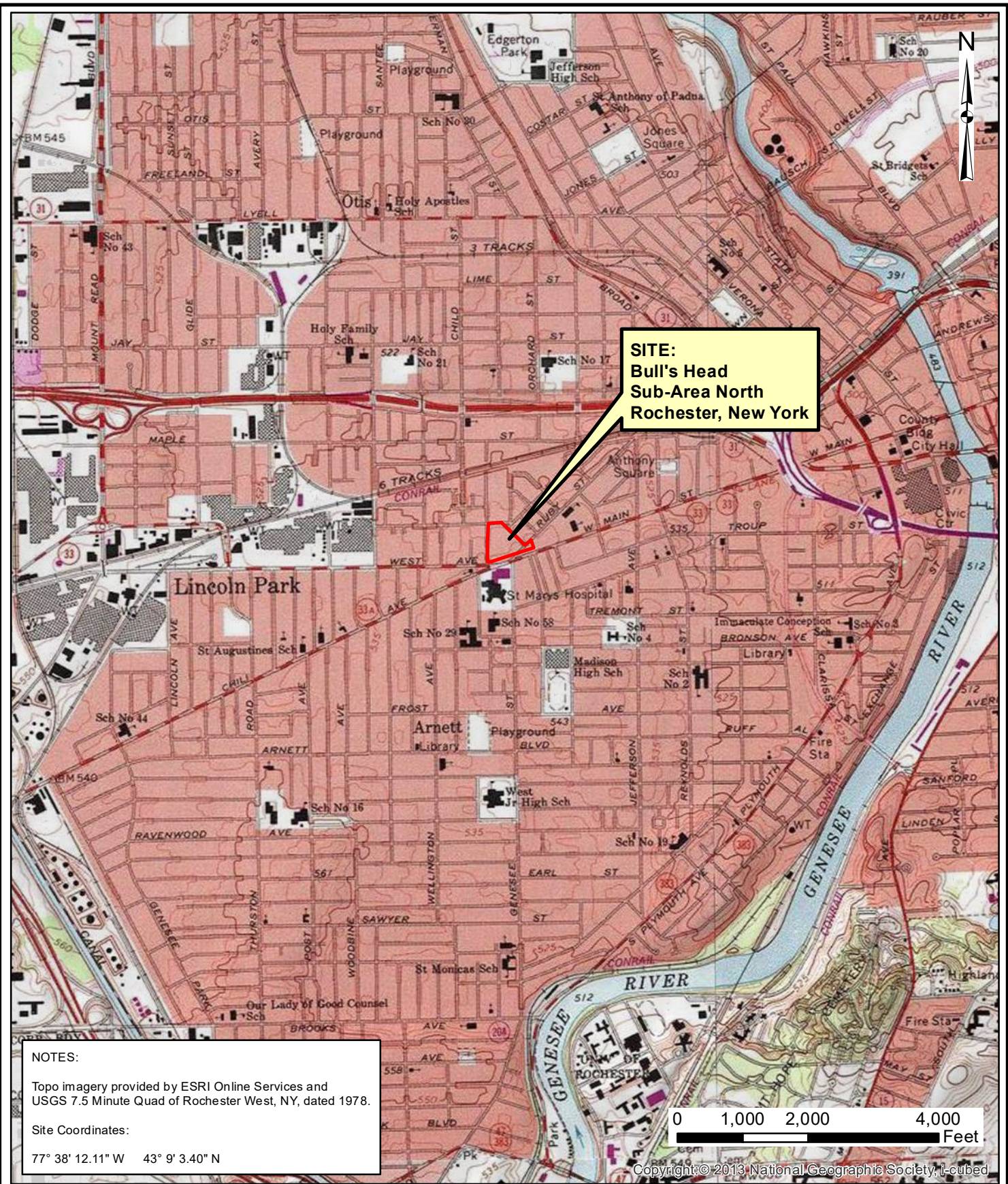


## 5.0 ACRONYMS

ALS	ALS Environmental
BGS	Below Ground Surface
BOA	Brownfield Opportunity Area
BUD	Beneficial Use Determination
C&D	Construction and Demolition
City	City of Rochester
CP-51	Commissioner Policy 51
CSCO	Commercial Soil Cleanup Objective
DAY	Day Environmental, Inc.
DNAPL	Dense Non-Aqueous Phase Liquid
ELAP	Environmental Laboratory Approval Program
EMP	Environmental Management Plan
Ft	Feet
GIS	Geographic Information System
GPS	Geographic Positioning System
GPRS	Ground Penetrating Radar Systems, Inc.
HASP	Health and Safety Plan
LNAPL	Light Non-Aqueous Phase Liquid
Nature's Way	Nature Way Environmental Consultants and Contractors Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
Paradigm	Paradigm Environmental Services, Inc.
PCB	Poly-Chlorinated Biphenyl
PGWSCO	Protection of Groundwater Soil Cleanup Objective
PID	Photoionization Detector
PLM	Polarized Light Microscopy
PPM	Parts Per Million
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Concern
ROW	Right-of-Way
RRSCO	Restricted Residential Soil Cleanup Objective
RSCO	Residential Soil Cleanup Objective
SCO	Soil Cleanup Objective
SPT	Standard Penetration Test
SSDS	Sub-Slab Depressurization System
SVOC	Semi-Volatile Organic Compound
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TIO	Temporary Incident of Ownership
TOGS	Technical and Operational Guidance Series 1.1.1
USEPA	United States Environmental Protection Agency
UUSCO	Unrestricted Use Soil Cleanup Objective
VOC	Volatile Organic Compound

## **FIGURES**





**SITE:**  
**Bull's Head**  
**Sub-Area North**  
**Rochester, New York**

**NOTES:**  
 Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Rochester West, NY, dated 1978.  
 Site Coordinates:  
 77° 38' 12.11" W    43° 9' 3.40" N

Document Path: E:\GIS Mapping\Roch\Bull's Head\464S-18\Roch\464E24 - Locus.mxd

Copyright © 2013 National Geographic Society, I-cubed

Date	06-05-2018
Drawn By	CPS
Scale	AS NOTED

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

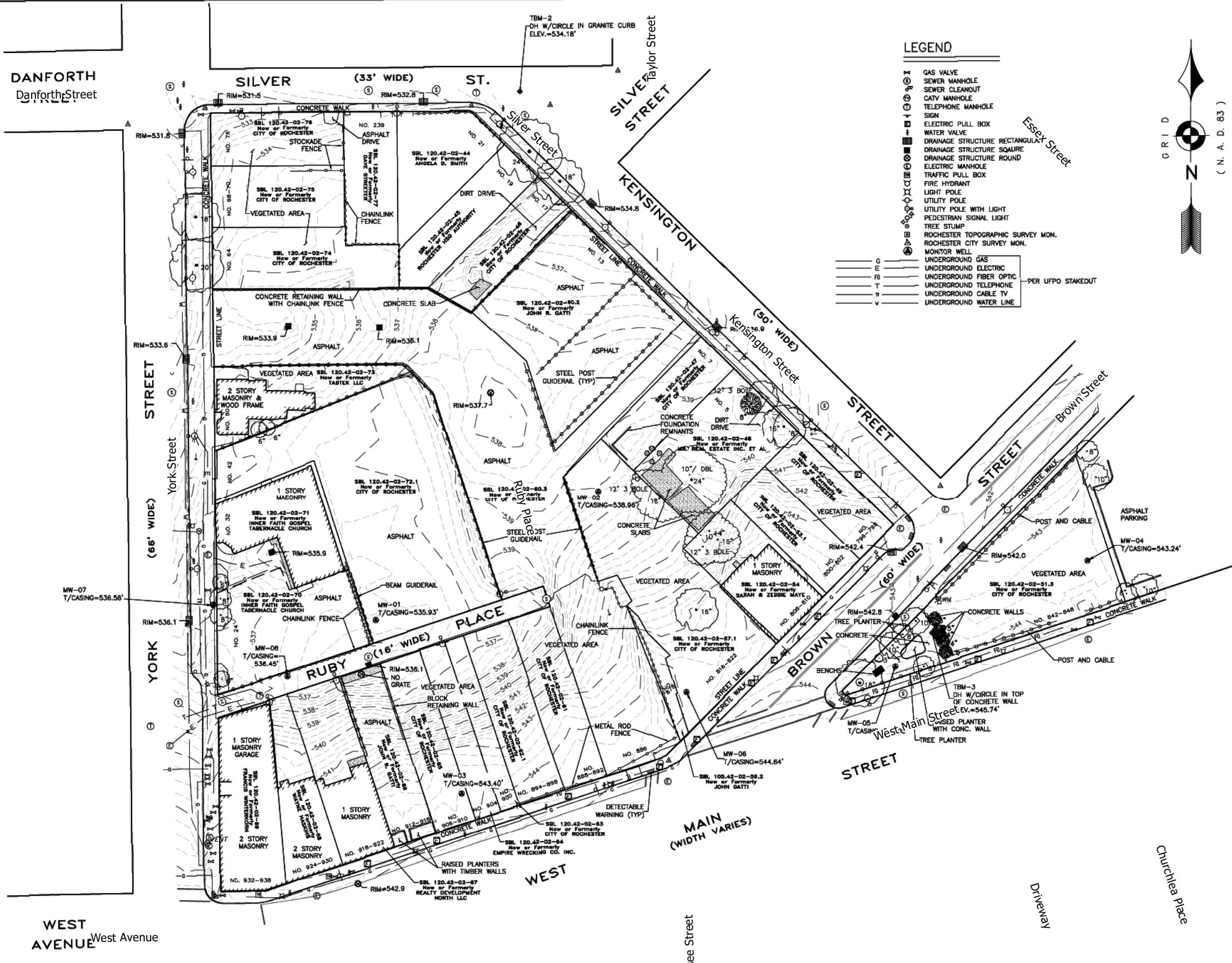
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Project Description	ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION
Drawing Title	Project Locus Map

Project No.	5464S-18
Figure	FIGURE 1

Last Date Saved: 05 Jun 2018

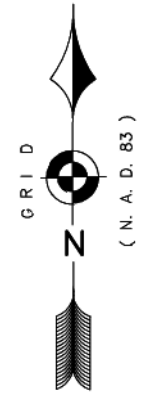


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**LEGEND**

- GAS VALVE
  - SEWER MANHOLE
  - SEWER CLEANOUT
  - CATY MANHOLE
  - TELEPHONE MANHOLE
  - SIGN
  - ELECTRIC PULL BOX
  - WATER VALVE
  - DRAINAGE STRUCTURE RECTANGULAR
  - DRAINAGE STRUCTURE SQUARE
  - DRAINAGE STRUCTURE ROUND
  - ELECTRIC MANHOLE
  - TRAFFIC PULL BOX
  - FIRE HYDRANT
  - LIGHT POLE
  - UTILITY POLE
  - UTILITY POLE WITH LIGHT
  - PEDESTRIAN SIGNAL LIGHT
  - TREE STUMP
  - ROCHESTER TOPOGRAPHIC SURVEY MON.
  - ROCHESTER CITY SURVEY MON.
  - MONITOR WELL
  - UNDERGROUND GAS
  - UNDERGROUND ELECTRIC
  - UNDERGROUND FIBER OPTIC
  - UNDERGROUND TELEPHONE
  - UNDERGROUND CABLE TV
  - UNDERGROUND WATER LINE
- PER UFPO STAKEOUT



**VERTICAL CONTROL**

THE VERTICAL DATUM SHOWN HEREON IS REFERENCED TO THE ROCHESTER CITY DATUM THROUGH CONTROL TIES TO THE FOLLOWING MONUMENTS:

1. RTS MONUMENT NO. 120500106, WESTERLY CORNER OF CHILI AVENUE AND WEST AVENUE, ELEVATION = 541.951'.
2. RTS MONUMENT NO. 120410104, SOUTHEAST CORNER DANFORTH STREET & COLVIN STREET, ELEVATION = 524.565'.

**HORIZONTAL CONTROL**

THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, NAD 1983 TRANSVERSE MERCATOR PROJECTION, WESTERN ZONE, THROUGH CONTROL TIES TO THE FOLLOWING MONUMENTATION:

1. KODAK TOWER - N 1153155.52 E 1405400.5521
2. BAUSCH & LOMB TOWER - N 1151006.72 E 1409112.8153
3. CITY OF ROCHESTER, MAPS & SURVEY JOB NO. 95-102 & 96-052

THE PERIMETER AND TIES TO CONTROL MONUMENTS WERE ACCOMPLISHED USING PROCEDURES NECESSARY TO ACHIEVE AN ACCURACY OF ONE PART IN TEN THOUSAND (1/10000) OR BETTER.

■ BENCHMARK  
RTS MONUMENT #120500106  
ELEV.=541.95'



DRAWING NO.	1
OF	1

**TOPOGRAPHIC SURVEY**

DATE	MARCH 16, 2018
CHECKED	JOHN D. METZGER L.S.
DRAWN	DENNIS J. RALLAND L.S.
DESIGN	
SCALE	1" = 40'
PROJECT NO.	2017-019
REVISIONS	BY DATE

**BULL'S HEAD NORTH**  
PT. TL. 63, 20,000 ACRE TRACT  
CITY OF ROCHESTER, MONROE COUNTY  
NEW YORK

	Department of Environmental Services Architecture and Engineering Services City of Rochester, New York
	CITY SURVEYOR JOHN D. METZGER L.S.
CITY ENGINEER	

DESIGNED BY	JAD	DATE	06-2018
DRAWN BY	CPS	DATE DRAWN	06-2018
SCALE	AS NOTED	DATE ISSUED	06-05-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
Environmental Consultants  
Rochester, New York 14606  
New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH  
ROCHESTER, NEW YORK**

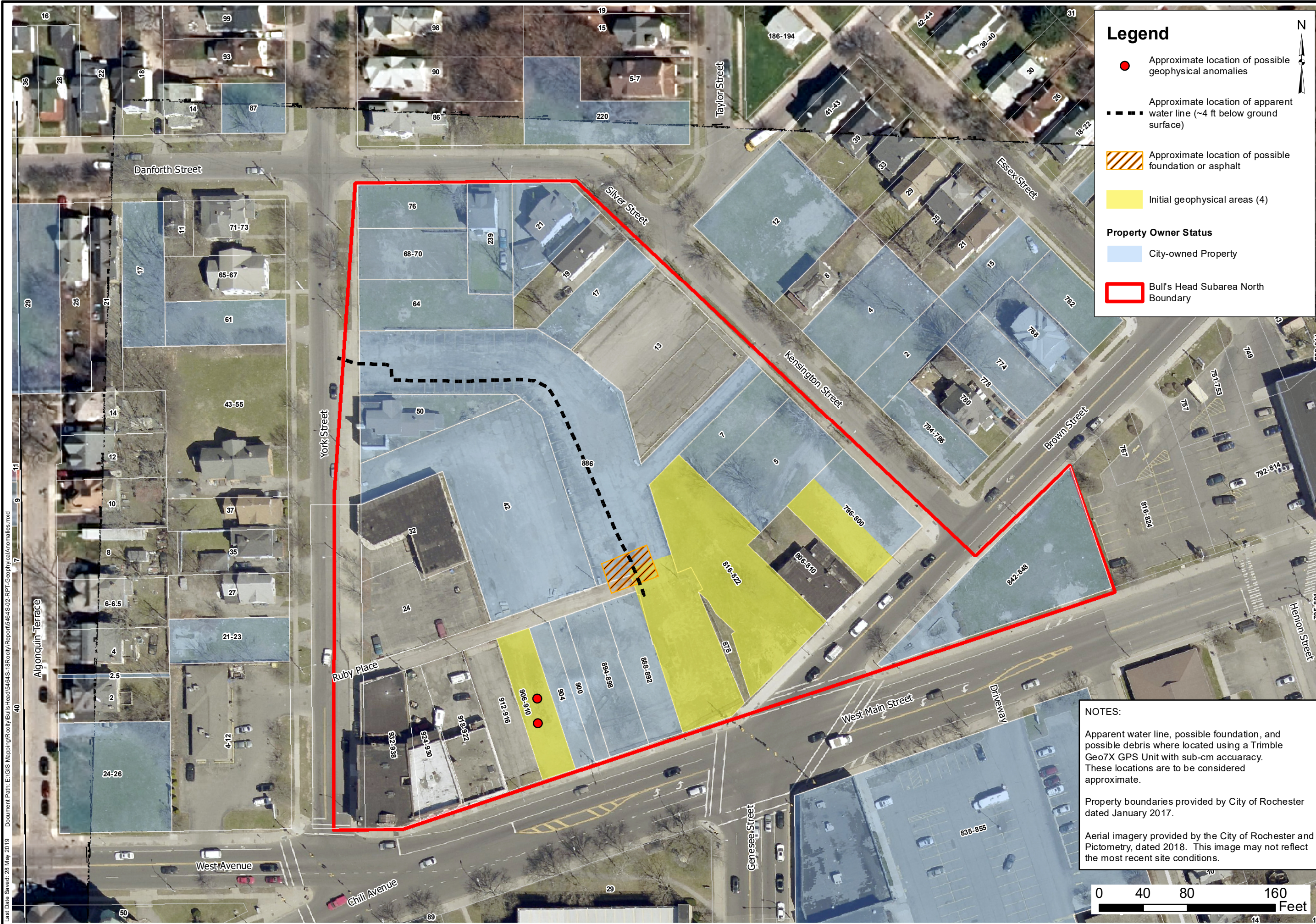
ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

Drawing Title  
**City of Rochester - Topographic Survey**

Project No.  
5464S-18

**FIGURE 2A**





### Legend

- Approximate location of possible geophysical anomalies
- Approximate location of apparent water line (~4 ft below ground surface)
- Approximate location of possible foundation or asphalt
- Initial geophysical areas (4)

**Property Owner Status**

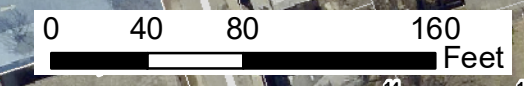
- City-owned Property
- Bull's Head Subarea North Boundary

**NOTES:**

Apparent water line, possible foundation, and possible debris were located using a Trimble Geo7X GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the City of Rochester and Pictometry, dated 2018. This image may not reflect the most recent site conditions.



DESIGNED BY	JAD	DATE	06-2018
DRAWN BY	CPS	DATE DRAWN	06-2018
SCALE	AS NOTED	DATE ISSUED	06-18-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

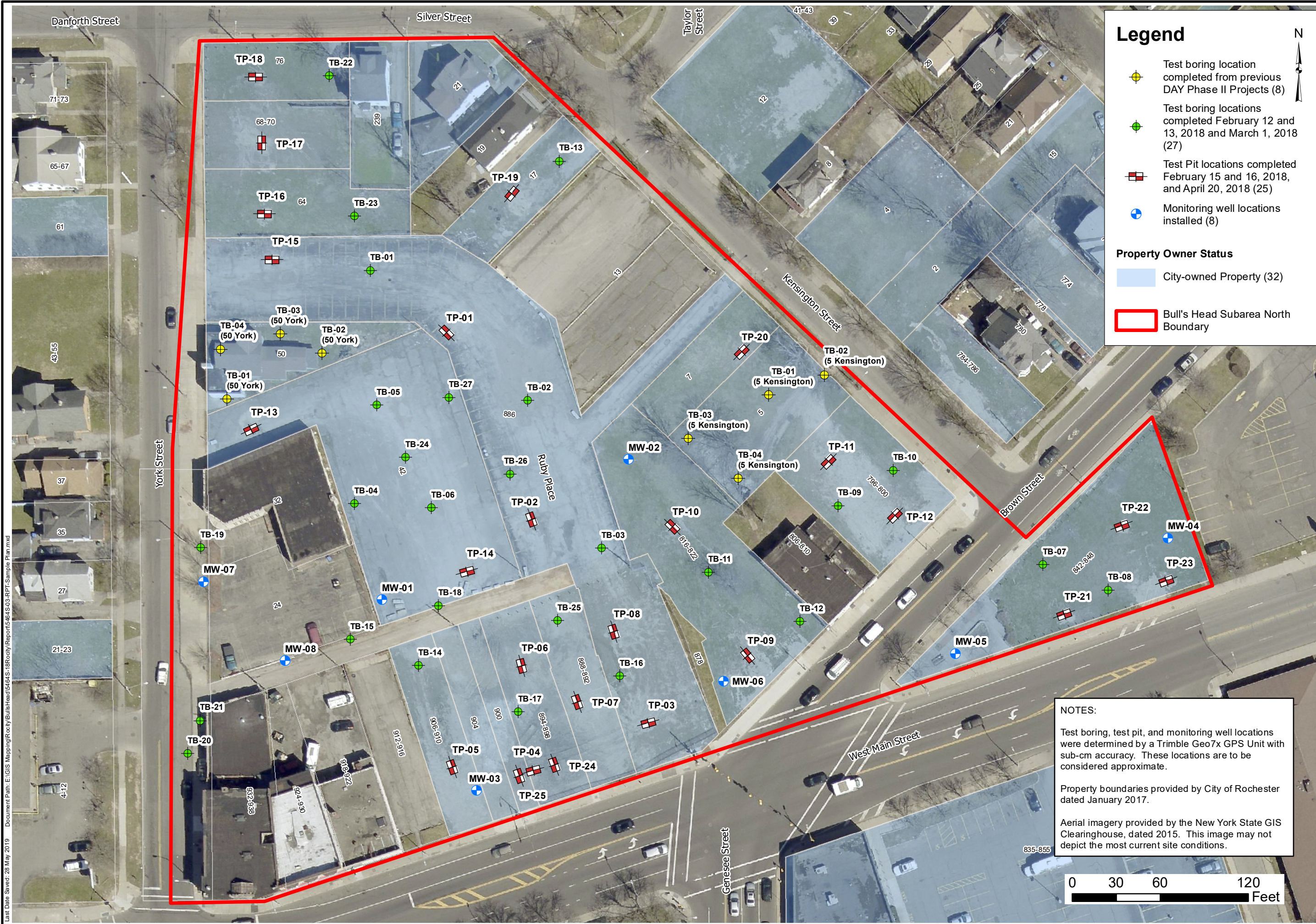
Drawing Title  
**Site Plan Showing City-Owned Parcels and Geophysical Anomalies**

Project No.  
 5464S-18

**FIGURE 2B**

Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\BullsHead\5464S-18\RoCity\Report\5464S-02-RPT-GeophysicalAnomalies.mxd





**Legend**

- Test boring location completed from previous DAY Phase II Projects (8)
  - Test boring locations completed February 12 and 13, 2018 and March 1, 2018 (27)
  - Test Pit locations completed February 15 and 16, 2018, and April 20, 2018 (25)
  - Monitoring well locations installed (8)
- Property Owner Status**
- City-owned Property (32)
  - Bull's Head Subarea North Boundary

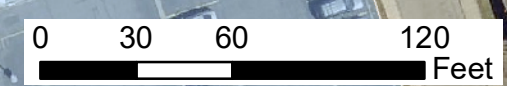


**NOTES:**

Test boring, test pit, and monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.



Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\BullsHead\5464S-18\Rocky\Report\5464S-03-RPT-Sample Plan.mxd

DESIGNED BY	JAD	DATE	06-2018
DRAWN BY	CPS	DATE DRAWN	06-2018
SCALE	AS NOTED	DATE ISSUED	06-18-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK**

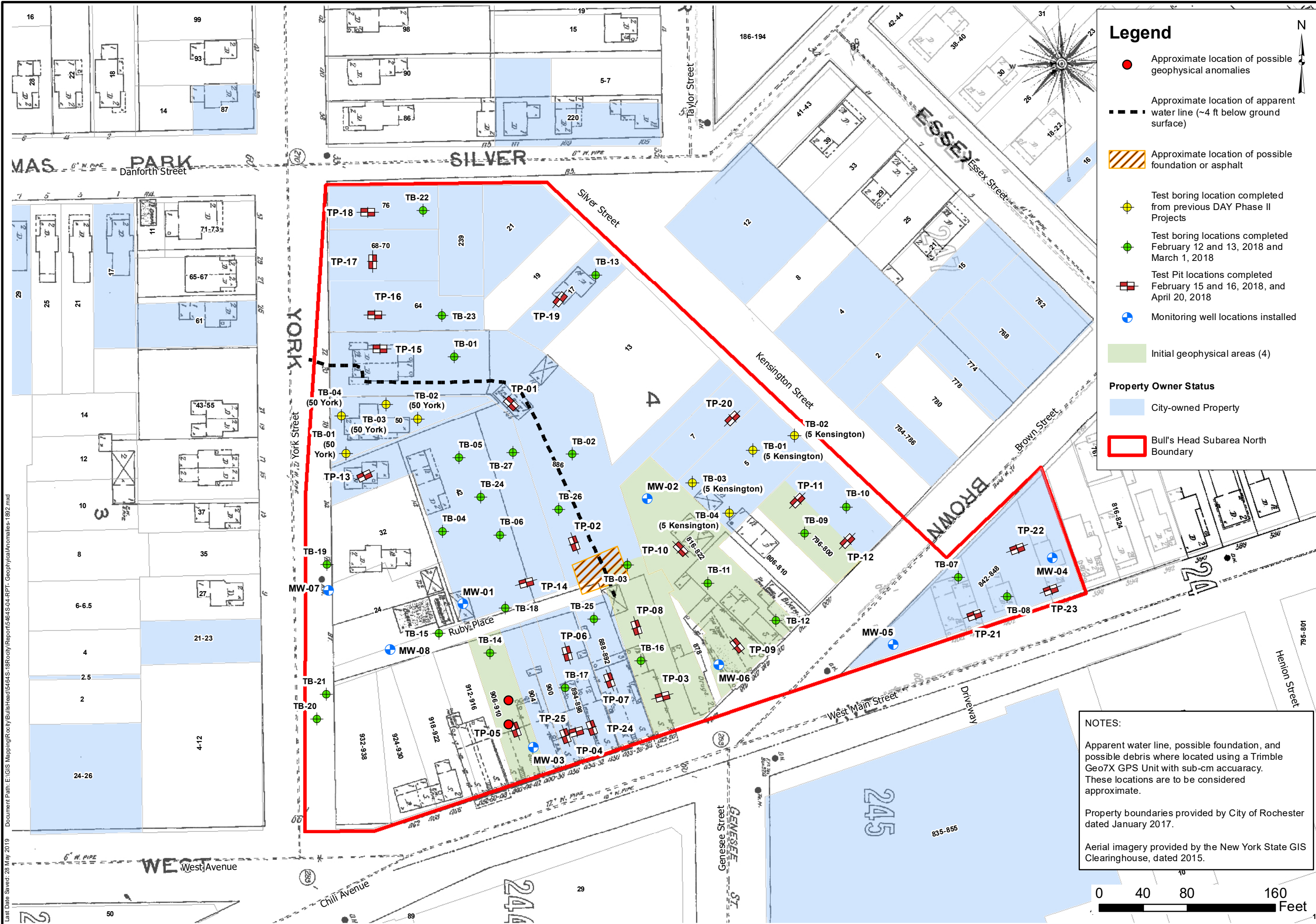
Project No.  
**5464S-18**

Drawing Title  
**ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION**

Site Plan with Completed Sample Locations

**FIGURE 3**





**Legend**

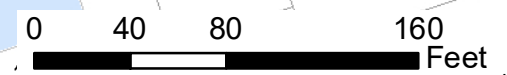
- Approximate location of possible geophysical anomalies
  - Approximate location of apparent water line (~4 ft below ground surface)
  - Approximate location of possible foundation or asphalt
  - ⊕ Test boring location completed from previous DAY Phase II Projects
  - ⊕ Test boring locations completed February 12 and 13, 2018 and March 1, 2018
  - ⊕ Test Pit locations completed February 15 and 16, 2018, and April 20, 2018
  - ⊕ Monitoring well locations installed
  - Initial geophysical areas (4)
- Property Owner Status**
- City-owned Property
  - Bull's Head Subarea North Boundary

**NOTES:**

Apparent water line, possible foundation, and possible debris where located using a Trimble Geo7X GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015.



DESIGNED BY	JAD	DATE	06-2018
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SCALE	AS NOTED	DATE ISSUED	06-05-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

**Project Title**  
 BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK

**Project No.**  
 5464S-18

**Drawing Title**  
 ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION  
 Site Plan with Geophysical Anomalies, Intrusive Test Locations  
 and 1892 Sanborn Overlay

**FIGURE 3A**

Document Path: E:\GIS Mapping\Rochester\BullsHead\5464S-18\Report\5464S-04-RPT-GeophysicalAnomalies-1892.mxd  
 Last Date Saved: 28 May 2019





### Legend

- Approximate location of possible geophysical anomalies
- - - - - Approximate location of apparent water line (~4 ft below ground surface)
- ▨ Approximate location of possible foundation or asphalt
- ⊕ Test boring location completed from previous DAY Phase II Projects
- ⊕ Test boring locations completed February 12 and 13, 2018 and March 1, 2018
- ⊕ Test Pit locations completed February 15 and 16, 2018, and April 20, 2018
- ⊕ Monitoring well locations installed
- Initial geophysical areas (4)

### Property Owner Status

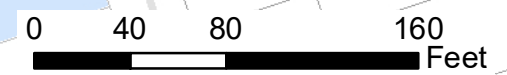
- City-owned Property
- ▭ Bull's Head Subarea North Boundary

**NOTES:**

Apparent water line, possible foundation, and possible debris where located using a Trimble Geo7X GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015.



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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

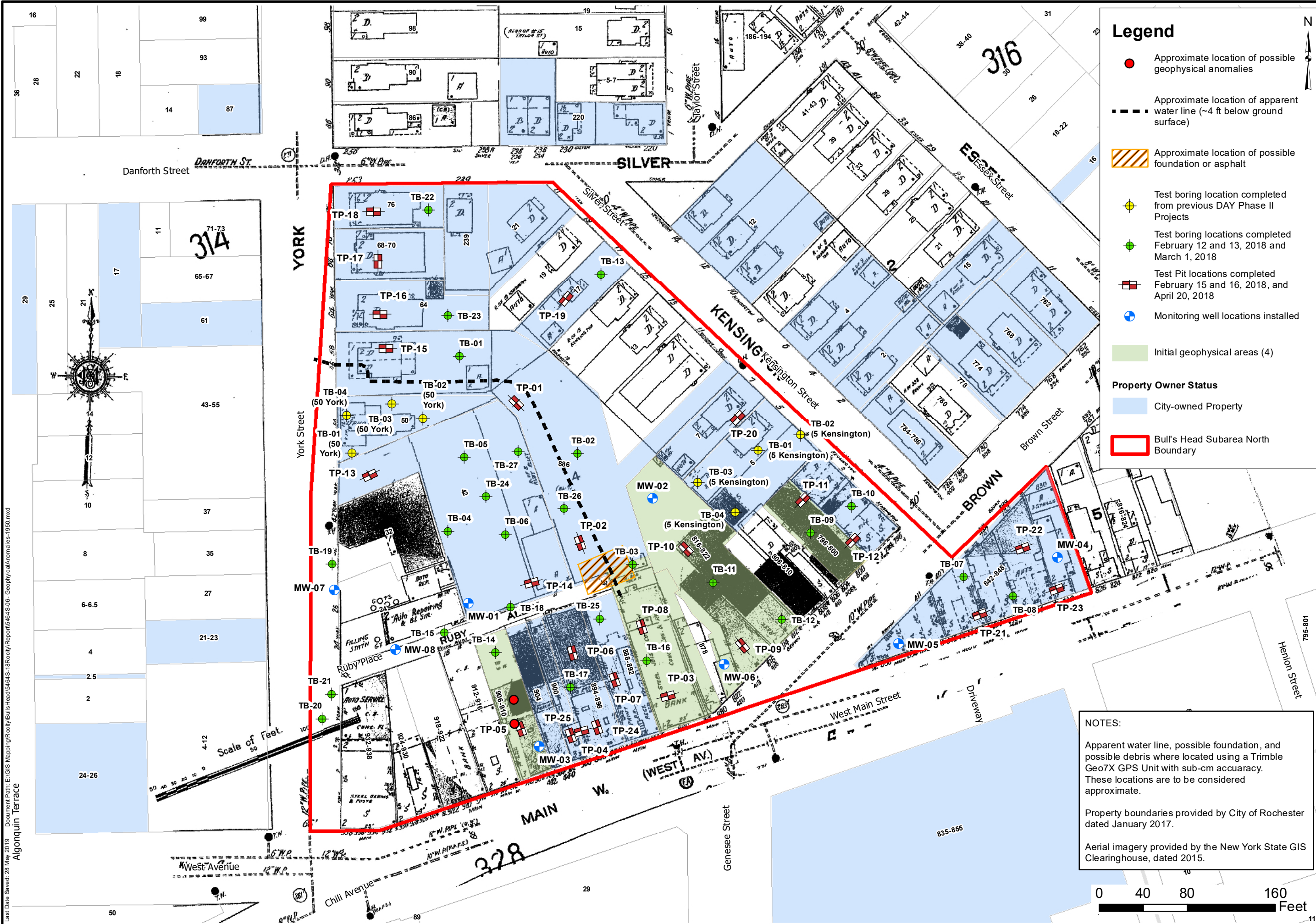
Drawing Title  
 Site Plan with Geophysical Anomalies, Intrusive Test Locations  
 and 1912 Sanborn Overlay

Project No.  
 5464S-18

**FIGURE 3B**

Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\BullsHead\464S-18\Rocky\Report\5464S-05-RPT-GeophysicalAnomalies-1912.mxd  
 Algonquin Terrace





### Legend

- Approximate location of possible geophysical anomalies
- - - - - Approximate location of apparent water line (~4 ft below ground surface)
- ▨ Approximate location of possible foundation or asphalt
- ⊕ Test boring location completed from previous DAY Phase II Projects
- ⊕ Test boring locations completed February 12 and 13, 2018 and March 1, 2018
- ⊕ Test Pit locations completed February 15 and 16, 2018, and April 20, 2018
- ⊕ Monitoring well locations installed
- Initial geophysical areas (4)

### Property Owner Status

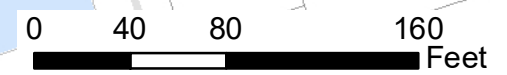
- City-owned Property
- ▭ Bull's Head Subarea North Boundary

**NOTES:**

Apparent water line, possible foundation, and possible debris where located using a Trimble Geo7X GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015.



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SCALE	AS NOTED	DATE ISSUED	06-05-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

**Project Title**  
 BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK

**Project No.**  
 5464S-18

**Drawing Title**  
 ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION  
 Site Plan with Geophysical Anomalies, Intrusive Test Locations  
 and 1950 Sanborn Overlay

**FIGURE 3C**

Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\Bull's Head\464S-18\Rocky\Report\5464S-06 - Geophysical Anomalies-1950.mxd  
 Algonquin Terrace





### Legend

- Approximate location of possible geophysical anomalies
- Approximate location of apparent water line (~4 ft below ground surface)
- Approximate location of possible foundation or asphalt
- Test boring location completed from previous DAY Phase II Projects
- Test boring locations completed February 12 and 13, 2018 and March 1, 2018
- Test Pit locations completed February 15 and 16, 2018, and April 20, 2018
- Monitoring well locations installed
- Initial geophysical areas (4)

#### Property Owner Status

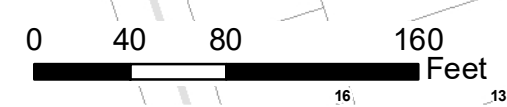
- City-owned Property
- Bull's Head Subarea North Boundary

**NOTES:**

Apparent water line, possible foundation, and possible debris where located using a Trimble Geo7X GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015.



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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

**PROJECT TITLE**  
 BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK

**ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION**

**DRAWING TITLE**  
 Site Plan with Geophysical Anomalies, Intrusive Test Locations and 1959 Sanborn Overlay

**PROJECT NO.**  
 5464S-18

**FIGURE 3D**

Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\Bull's Head\5464S-18\Rocky\Report\5464S-07-GeophysicalAnomalies-1959.mxd





### Legend

- Approximate location of possible geophysical anomalies
- Approximate location of apparent water line (~4 ft below ground surface)
- Approximate location of possible foundation or asphalt
- ⊕ Test boring location completed from previous DAY Phase II Projects
- ⊕ Test boring locations completed February 12 and 13, 2018 and March 1, 2018
- ⊕ Test Pit locations completed February 15 and 16, 2018, and April 20, 2018
- ⊕ Monitoring well locations installed
- Initial geophysical areas (4)

#### Property Owner Status

- City-owned Property
- Bull's Head Subarea North Boundary

**NOTES:**

Apparent water line, possible foundation, and possible debris where located using a Trimble Geo7X GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015.

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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

Drawing Title  
**Site Plan with Geophysical Anomalies, Intrusive Test Locations  
 and 1971 Sanborn Overlay**

Project No.  
 5464S-18

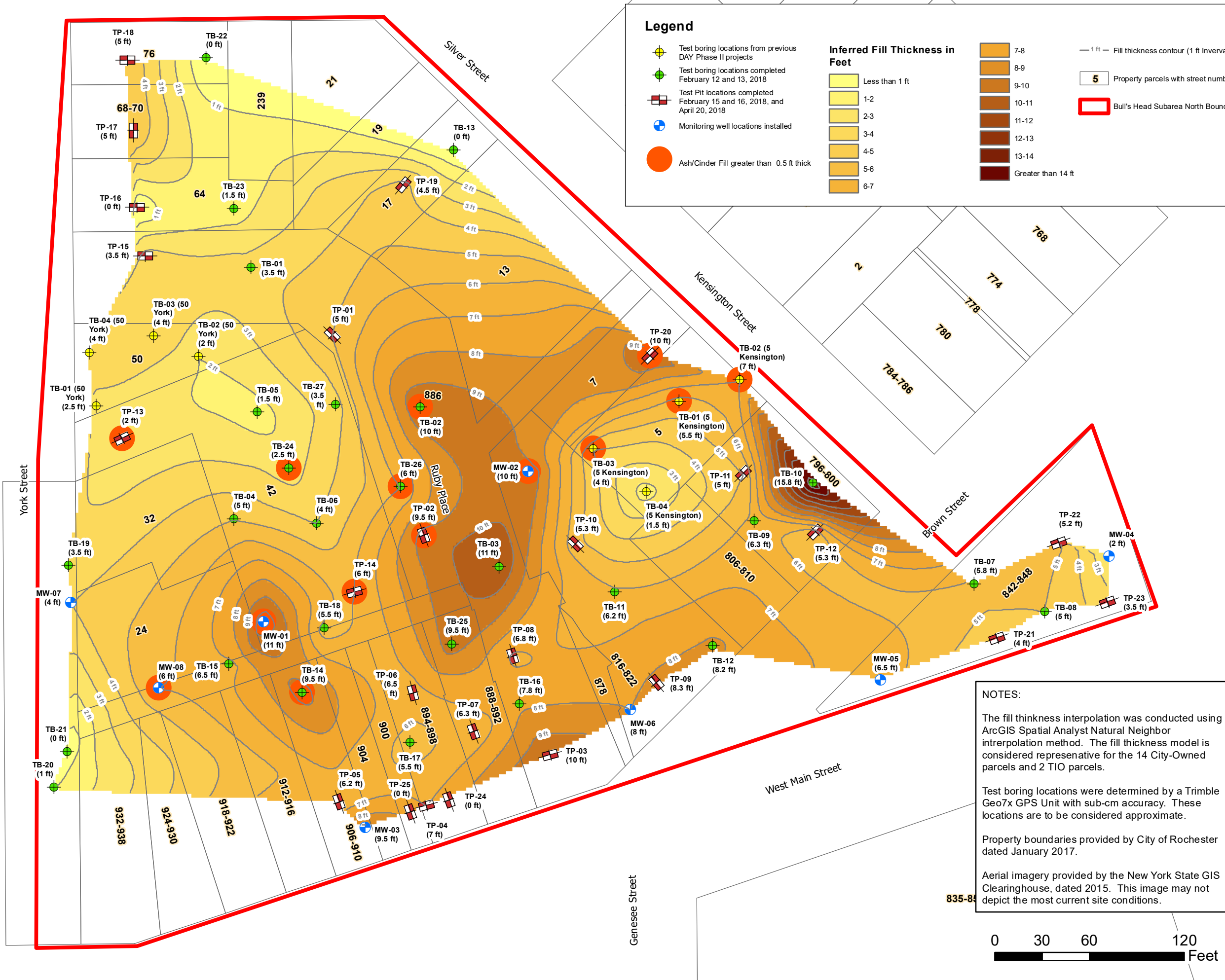
**FIGURE 3E**

Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\Bull's Head\5464S-18\Rocky\Report\5464S-08 - Geophysical Anomalies-1971.mxd



Last Date Saved: 13 Jun 2018 Document Path: E:\GIS Mapping\Rochester\Bull's Head\464S-18\Rocky\Report\464S-09-RPT-FillThickness.mxd

71-73  
65-67  
61  
43-55  
37  
35  
27  
21-23  
4-12



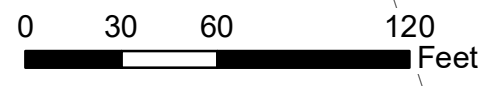
**NOTES:**

The fill thickness interpolation was conducted using ArcGIS Spatial Analyst Natural Neighbor interpolation method. The fill thickness model is considered representative for the 14 City-Owned parcels and 2 TIO parcels.

Test boring locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.



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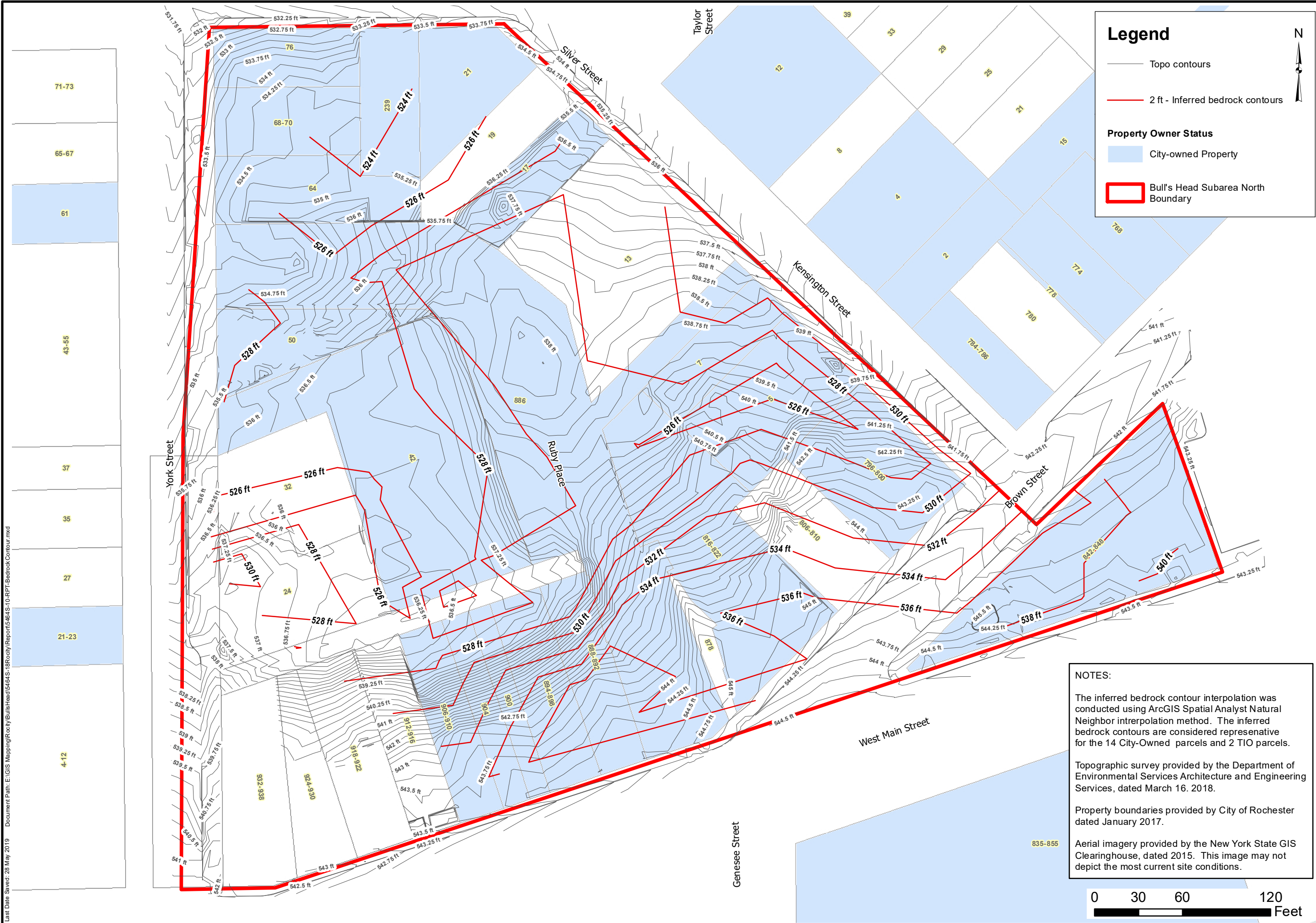
Project Title  
**BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK**

Project No.  
 5464S-18

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION  
 Drawing Title  
 Site Plan with Fill Thickness Contours

**FIGURE 4**

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**Legend**

- Topo contours
- 2 ft - Inferred bedrock contours

**Property Owner Status**

- City-owned Property
- Bull's Head Subarea North Boundary

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Project Title  
**BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK**

Project No.  
**5464S-18**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION  
 Drawing Title  
**Site Plan with Inferred Bedrock Contours**

**FIGURE 5**

**NOTES:**

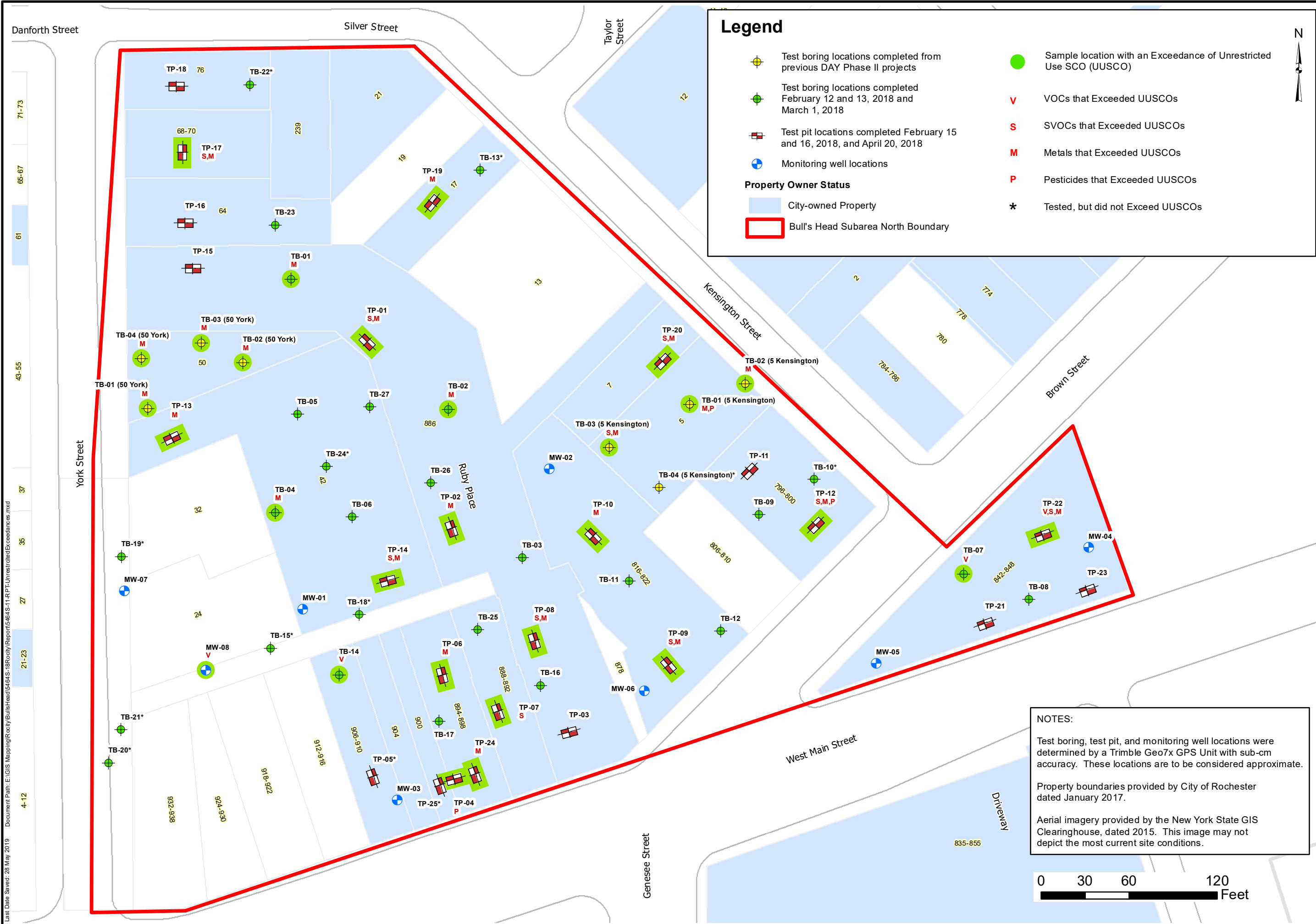
The inferred bedrock contour interpolation was conducted using ArcGIS Spatial Analyst Natural Neighbor interpolation method. The inferred bedrock contours are considered representative for the 14 City-Owned parcels and 2 TIO parcels.

Topographic survey provided by the Department of Environmental Services Architecture and Engineering Services, dated March 16, 2018.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.





### Legend

- Test boring locations completed from previous DAY Phase II projects
- Test boring locations completed February 12 and 13, 2018 and March 1, 2018
- Test pit locations completed February 15 and 16, 2018, and April 20, 2018
- Monitoring well locations
- City-owned Property
- Bull's Head Subarea North Boundary
- Sample location with an Exceedance of Unrestricted Use SCO (UUSCO)
- VOCs that Exceeded UUSCOs
- SVOCs that Exceeded UUSCOs
- Metals that Exceeded UUSCOs
- Pesticides that Exceeded UUSCOs
- Tested, but did not Exceed UUSCOs



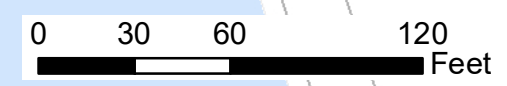
DESIGNED BY	JAD	DATE	06-2018
DRAWN BY	CPS	DATE DRAWN	06-2018
SCALE	AS NOTED	DATE ISSUED	06-19-2018

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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

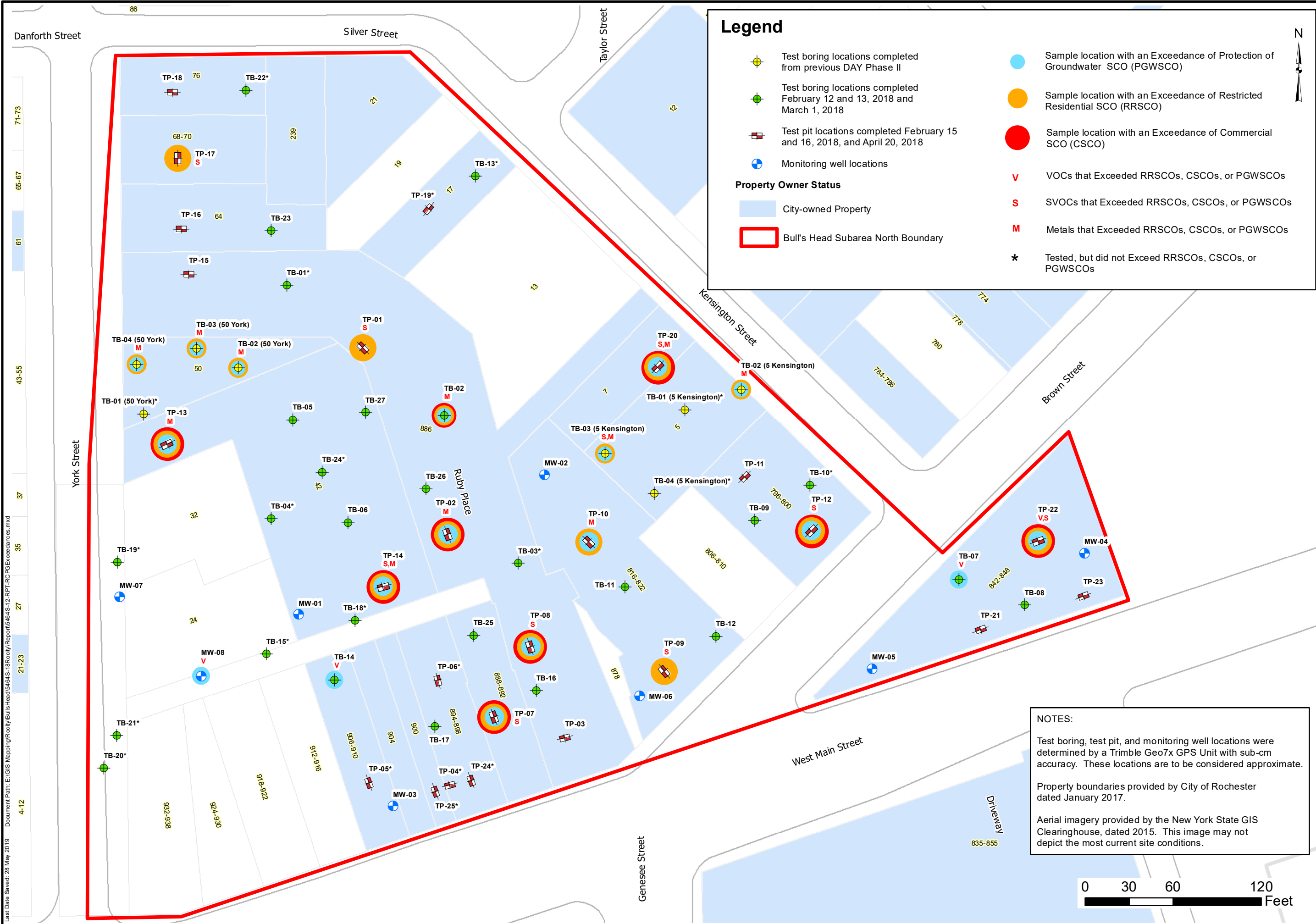
**ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION**  
**BULL'S HEAD SUB-AREA NORTH**  
**ROCHESTER, NEW YORK**  
 Project Title  
 Drawing Title  
 Site Plan with Sample Locations Compared to Unrestricted Use Soil Cleanup Objectives

Project No.  
 5464S-18  
**FIGURE 6**

**NOTES:**  
 Test boring, test pit, and monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.  
 Property boundaries provided by City of Rochester dated January 2017.  
 Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.



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### Legend

- Test boring locations completed from previous DAY Phase II
- Test boring locations completed February 12 and 13, 2018 and March 1, 2018
- Test pit locations completed February 15 and 16, 2018, and April 20, 2018
- Monitoring well locations
- City-owned Property
- Bull's Head Subarea North Boundary
- Sample location with an Exceedance of Protection of Groundwater SCO (PGWSCO)
- Sample location with an Exceedance of Restricted Residential SCO (RRSCO)
- Sample location with an Exceedance of Commercial SCO (CSCO)
- VOCs that Exceeded RRSCOs, CSCOs, or PGWSCOs
- SVOCs that Exceeded RRSCOs, CSCOs, or PGWSCOs
- Metals that Exceeded RRSCOs, CSCOs, or PGWSCOs
- Tested, but did not Exceed RRSCOs, CSCOs, or PGWSCOs

### Property Owner Status

- City-owned Property
- Bull's Head Subarea North Boundary

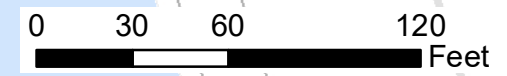


**NOTES:**

Test boring, test pit, and monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.



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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH**  
**ROCHESTER, NEW YORK**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

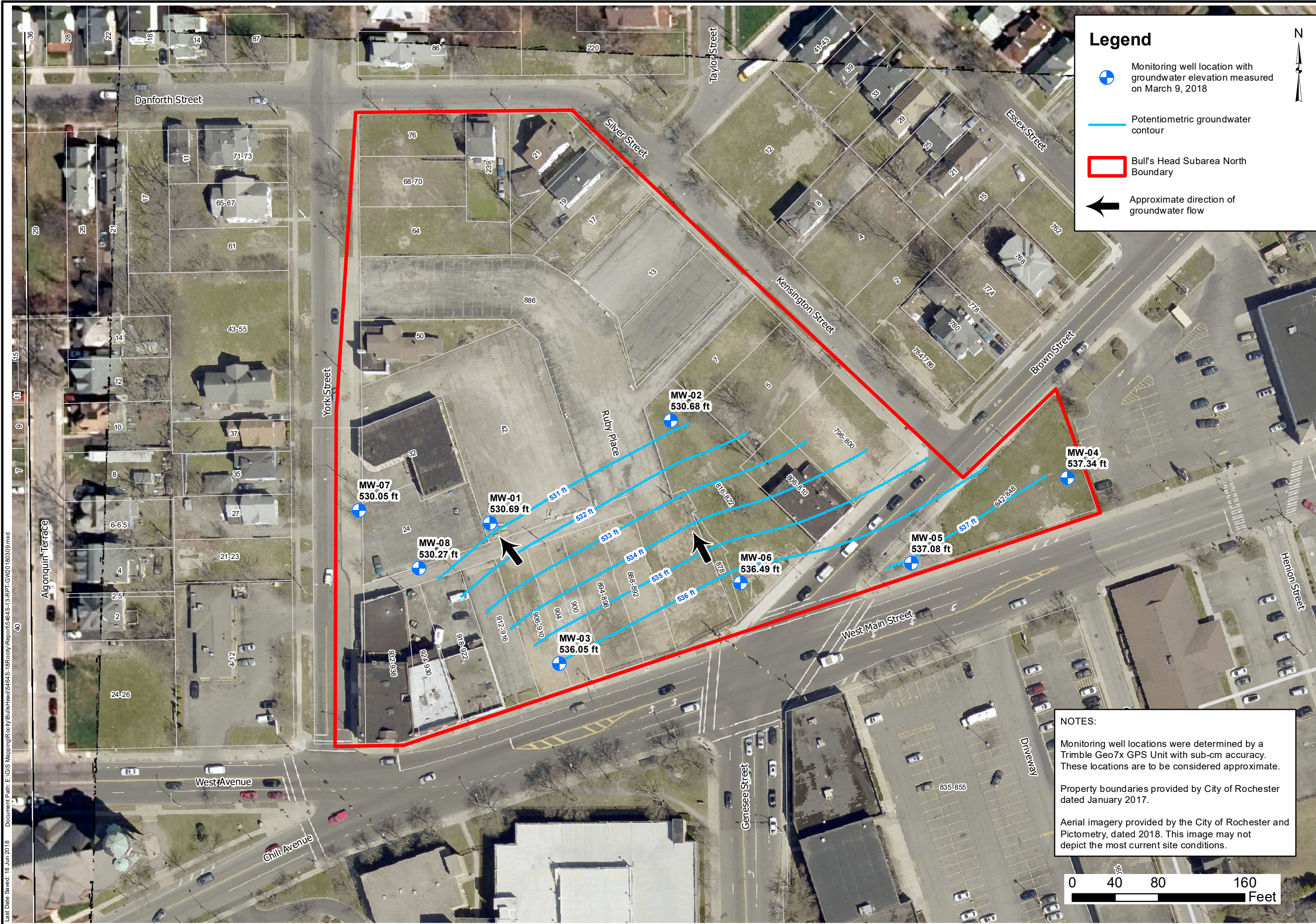
Drawing Title  
 Site Plan with Sample Locations Compared to Restricted Residential Use SCOs, Commercial Use SCOs, and Protection of Groundwater SCOs

Project No.  
 5464S-18

**FIGURE 7**

Last Date Saved: 28 May 2019 Document Path: E:\GIS Mapping\Rochester\BullsHead\464S-18\Rocky\Report\5464S-12-RPT-RC-PG-Exceedances.mxd 4-12 21-23 27 35 37 43-55 61 65-67 71-73 86





### Legend

- Monitoring well location with groundwater elevation measured on March 9, 2018
- Potentiometric groundwater contour
- Bull's Head Subarea North Boundary
- Approximate direction of groundwater flow



DESIGNED BY	JAD	DATE	06-2018
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SCALE	AS NOTED	DATE ISSUED	06-18-2018

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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title  
**BULL'S HEAD SUB-AREA NORTH**  
**ROCHESTER, NEW YORK**

Environmental and Geophysical Investigation  
 Drawing Title

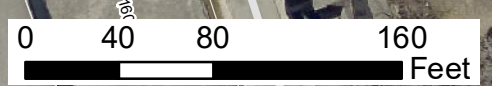
Potentiometric Groundwater Contour Map Measured on March 9, 2018

**NOTES:**

Monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the City of Rochester and Pictometry, dated 2018. This image may not depict the most current site conditions.

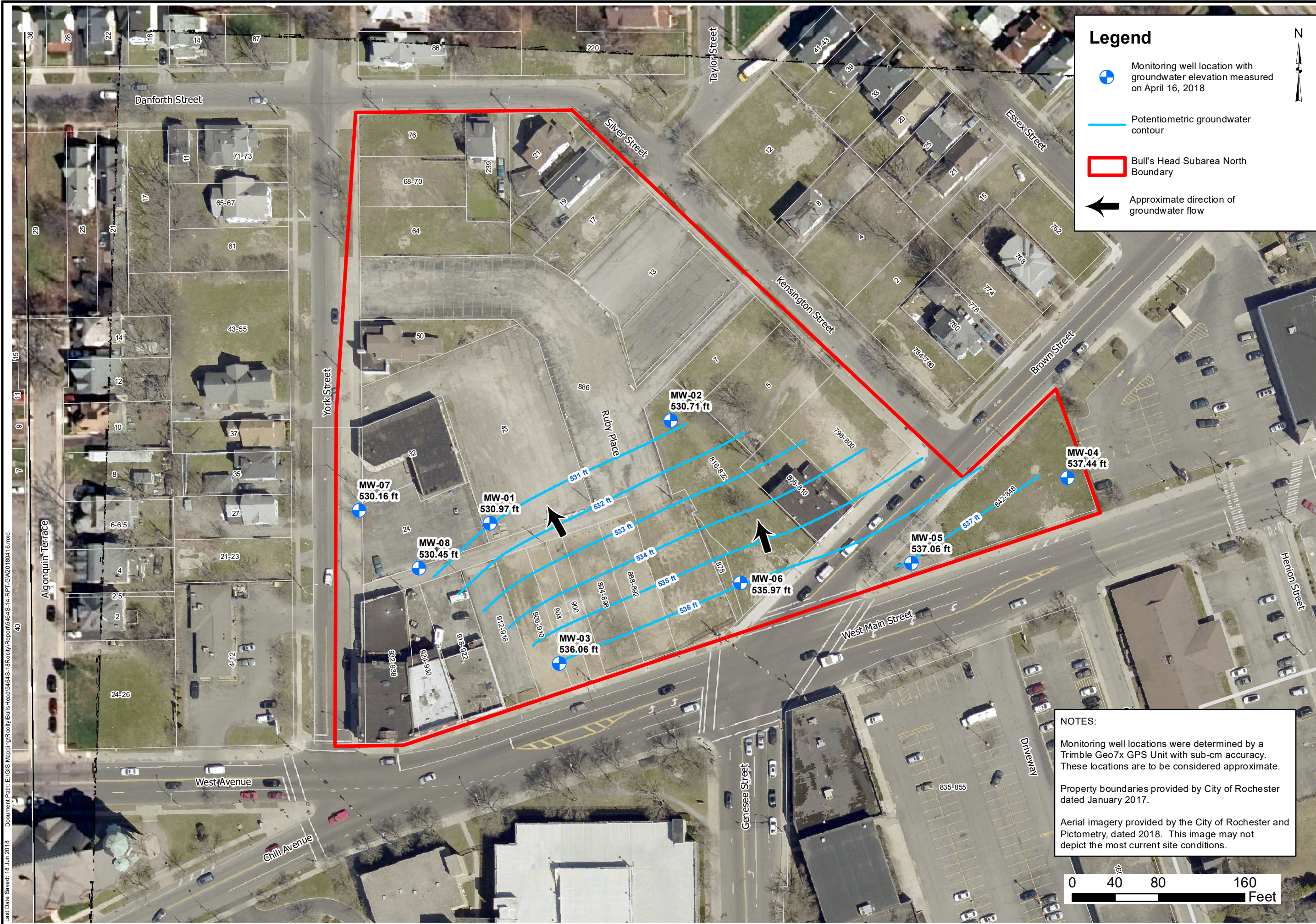


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Project No.  
 5464S-18

**FIGURE 8**





### Legend

- Monitoring well location with groundwater elevation measured on April 16, 2018
- Potentiometric groundwater contour
- Bull's Head Subarea North Boundary
- Approximate direction of groundwater flow

DESIGNED BY	JAD	DATE	06-2018
DRAWN BY	CPS	DATE DRAWN	06-2018
SCALE	AS NOTED	DATE ISSUED	06-18-2018

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

**PROJECT TITLE**  
 BULL'S HEAD SUB-AREA NORTH  
 ROCHESTER, NEW YORK

**DRAWING TITLE**  
 ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

**PROJECT NO.**  
 5464S-18

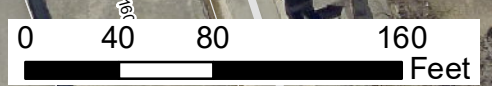
**POTENTIOMETRIC GROUNDWATER CONTOUR MAP MEASURED ON APRIL 16, 2018**

**NOTES:**

Monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

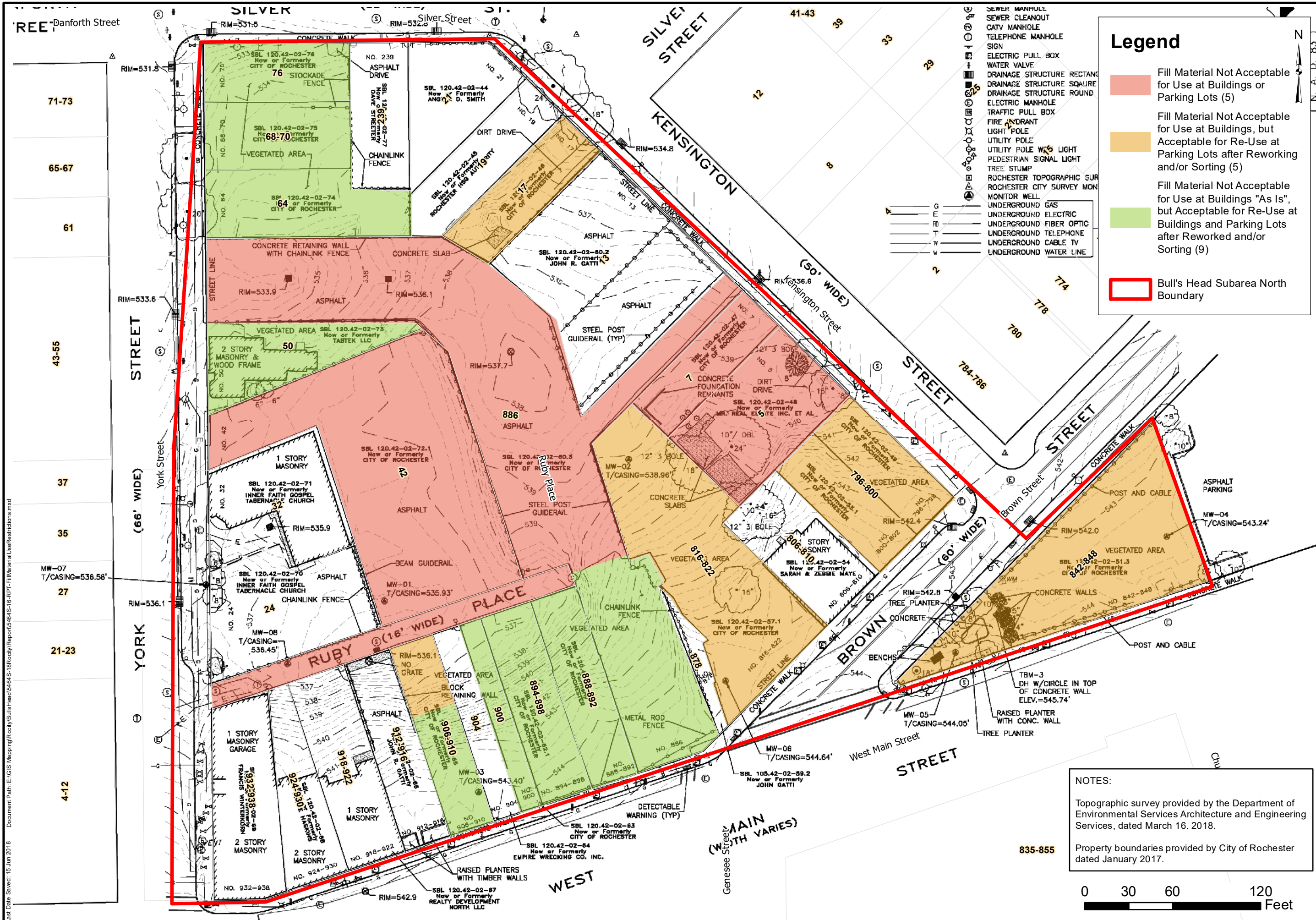
Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the City of Rochester and Pictometry, dated 2018. This image may not depict the most current site conditions.



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- SEWER MANHOLE
- SEWER CLEANOUT
- CATV MANHOLE
- TELEPHONE MANHOLE
- SIGN
- ELECTRIC PULL BOX
- WATER VALVE
- DRAINAGE STRUCTURE RECTANG
- DRAINAGE STRUCTURE SQUARE
- DRAINAGE STRUCTURE ROUND
- ELECTRIC MANHOLE
- TRAFFIC PULL BOX
- FIRE HYDRANT
- LIGHT POLE
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- PEDESTRIAN SIGNAL LIGHT
- TREE STUMP
- ROCHESTER TOPOGRAPHIC SUR
- ROCHESTER CITY SURVEY MON
- MONITOR WELL
- UNDERGROUND GAS
- UNDERGROUND ELECTRIC
- UNDERGROUND FIBER OPTIC
- UNDERGROUND TELEPHONE
- UNDERGROUND CABLE TV
- UNDERGROUND WATER LINE

### Legend

- Fill Material Not Acceptable for Use at Buildings or Parking Lots (5)
- Fill Material Not Acceptable for Use at Buildings, but Acceptable for Re-Use at Parking Lots after Reworking and/or Sorting (5)
- Fill Material Not Acceptable for Use at Buildings "As Is", but Acceptable for Re-Use at Buildings and Parking Lots after Reworked and/or Sorting (9)
- Bull's Head Subarea North Boundary

DESIGNED BY	JAD	DATE	06-2018
DRAWN BY	CPS	DATE DRAWN	06-2018
SCALE	AS NOTED	DATE ISSUED	06-15-2018

**day**  
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 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

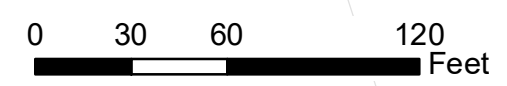
Project Title  
**BULL'S HEAD SUB-AREA NORTH**  
**ROCHESTER, NEW YORK**

Project No.  
**5464S-18**

Drawing Title  
**Site Plan with Fill Material Use Restrictions Based on Geotechnical Conditions**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

NOTES:  
 Topographic survey provided by the Department of Environmental Services Architecture and Engineering Services, dated March 16, 2018.  
 Property boundaries provided by City of Rochester dated January 2017.



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## TABLES

Table 1

Bulls Head Sub Area North  
Rochester, New York

Parcel Use and Environmental Testing Details

Site Address	Class Description	RECs Identified in Phase I ESA Reports and 2009 Environmental Screen	2009 Notes	Buildings	Date of Construction Permit	Demolition Permit	Date of Demolition Permit
796-800 BROWN ST	VACANT COMMERCIAL LAND	Possible Former Dry Cleaning Activities	Previous building demolition (basement filled?)	Double Dwelling	04/24/1914	0991617 (Demo masonry 2-story row Building) 0991618 (Demo masonry 1-story Building)	03/23/1999 03/23/1999
816-822 BROWN ST	VACANT COMMERCIAL LAND	Drains of Unknown Condition; Possible Vent Pipe of Unknown Use; Historical Uses; Former Industrial/Manufacturing Use; Spills; and Historical Uses and Regulatory Listings of Adjoining Properties	Previous building demolition (basement filled?)	Store Building	NA	0140662 (Demo) 0303320 (Demo Remains of Comm Building Restaurant) 1050592 (Demo Brick 3-story row Building) 1050593 (Demo frame 1-story small structure)	10/15/1948 08/05/1975 01/27/2005 02/01/2005
7 KENSINGTON ST	RESIDENTIAL VACANT LAND	None	Previous building demolition (basement filled?)	Frame Residence Frame Addition to Dwelling Frame Garage Frame 2-Car Garage	04/08/1902 06/06/1910 04/21/1922 04/16/1957	0941593 (Demo frame 2.5-story 1 family dwelling with frame garage)	04/07/1994
17 KENSINGTON ST	RESIDENTIAL VACANT LAND	None	None	Frame Garage	12/13/1923	1125916 (Demo frame 1-story 1 family dwelling)	11/29/2012
Ruby Place ROW	NA	NA	NA				
842-848 W MAIN ST	VACANT COMMERCIAL LAND	NA	NA	Concrete Block Store Portable 2-Car Garage Frame Portable Garage Frame Ice Shed	05/28/1921 02/04/1924 06/10/1924 05/19/1932	0189567 (Demo Frame 3-Car Garage) 0303325 (Demo Fire Damaged Masonry Bldg 17 Apts Store and Restaurant) 0330650 (Demo 3-Story Brick and Frame Fire-Damaged Commercial and Apartment Building) 0942009 (Demo 2-Story Brick and Frame Commercial Building) 0942013 (Demo 2-Story Brick Mixed Use Building)	08/22/1966 08/05/1975 03/12/1982 04/18/1994 04/18/1994
886 W MAIN ST	1 OCCUPANT SM STRUCTURE	Former Industrial/Manufacturing Use	Staining and Drains of Unknown Condition; Possible Vent Pipe of Unknown Use; Historical Uses of Assessed Property; and Historical Uses and Regulatory Listings of Adjoining/Nearby Properties (10/23/2015)	Brick Bank Building	NA	0305641 (Demo Auto Drive In Structure) 1171674 (Demo Brick 2-Story Former Bank Building)	03/01/1996 03/29/2017
888-892 W MAIN ST	VACANT COMMERCIAL LAND	Hazardous Material Storage	None	Brick Building 1-Car Concrete Block Garage	NA 04/18/1978	NA	NA
894-898 W MAIN ST	ATTACHED ROW BUILDING	SACM; Incinerator; Current or Former Auto Service/Repair and Historical Uses and Regulatory Listing of Adjoining/Nearby Properties	Previous building demolition (basement filled?) Historical Uses of the Assessed Property; and Regulatory Listings/Historical Uses of Adjoining Properties (08/16/2016)	Market	03/31/1914	0305241 (Demo Frame Garage) 1174572 (Demo Brick/Frame 3-Story Mixed Use Building)	01/28/1976 12/26/2017
906-910 W MAIN ST	VACANT COMMERCIAL LAND	Current or Former Industrial/Manufacturing Use	None	BrickStore Con Blk Add'n Stge Bldg	NA NA	1132490 (Demo 3-Story Attached Row Building)	05/22/2013
42 YORK ST	PARKING LOT	Staining/Debris	Historical Uses of the Assessed Property; and Regulatory Listings/Historical Uses of Adjoining Properties - For 894-898 W. Main St. & 42 York St. (08/16/2016)	NA	NA	NA	NA
68-70 YORK ST	APARTMENT	None	Potential UST and NYSDEC Spill Incidents on Adjoining/Nearby Properties (09/27/2016)	2-Family Dwelling (later converted to 4-Family)	NA	1173956 (Demo 2.5-Story 4-Family Dwelling)	06/30/2017
76 YORK ST	RESIDENTIAL VACANT LAND	None	None	2-Family Dwelling	NA	NA	NA
York Street ROW	NA	NA	NA				

VOC = Volatile Organic Compound  
SVOC = Semi-Volatile Organic Compound  
TCLP = Toxicity Leaching Procedure  
NA = Not Available or Not Applicable

Pests = Pesticides  
UST = Underground Storage Tank  
NYSDEC = New York State Department of Environmental Conservation  
SACM = Suspect Asbestos Containing Material



Table 2

**Bulls Head Sub Area North  
Rochester, New York**

**Sample Log and Analytical Testing Program**

TEST BORINGS															
Location	Sample Depth (ft)	Date	PID	Visual	Parameters Tested										
					VOCs	SVOCs	Metals	PCBs	Pest.	CN	Asbes.	TCLP Pb&Hg	TCLP Metals	Full TCLP	Ign, Rea., pH
TB-01	3.0	2/12/2018	0.4	FILL (brown/black Silt Topsoil, little Ash/Cinder), moist		1	1								
TB-02	8.0	2/12/2018	0.0	FILL (Cinders, Ash, Silt and Gravel), moist to wet		1	1								
TB-04	2.5	2/12/2018	4.0	FILL (Brown/gray Sand, little Silt, Gravel, Cinder, Ash), moist	1	1	1								
TB-07	5.5	2/12/2018	0.8	FILL (Gray/Black Sand, some Silt, Little Gravel, trace Ash, Brick, Wood, Asphalt), moist/wet	1										
TB-10	15.0	2/12/2018	0.2	FILL (Brown/Gray Sand/Silt/Gravel/Rock, Little Ash/Cinder, Trace Brick), wet	1										
TB-13	8.0	2/12/2018	5.8	Brown Silt/Sand, Little Gravel, moist/wet	1										
TB-14	7.0	2/13/2018	41.0	Black stained Silt and Gravel, wet, petroleum-type odor	1	1	1	1							
TB-15	7.0-7.5	2/13/2018	2.6	Fine Sand, Little Gravel, wet	1										
TB-18	10.0-11.0	2/13/2018	0.0	Brown Sand, some Gravel, wet		1									
TB-19	10.0	2/13/2018	0.0	Brown Sand, little Silt & Gravel, moist to wet	1										
TB-20	3.0	2/13/2018	0.5	Brown/Gray Silt & Gravel, some Rock, moist	1										
TB-21	5.0	2/13/2018	0.0	Brown Silt, little Gravel, moist	1										
TB-22	12.0	2/13/2018	7.6	Sand, moist/wet	1										
TB-24	2.5	2/13/2018	2.4	FILL (Tan/Black Sand, Ash, Brick), moist		1	1								
MW-08	6.0-8.0	2/28/2018	NA	NA	1										
IDW-01 (Soil)	NA	3/1/2018	NA	Soil Cuttings from Monitoring Wells				1					1	1	
Totals for Test Borings					11	6	5	2	0	0	0	0	0	1	1

TEST PITS															
Location	Sample Depth	Date	PID	Visual	Parameters Tested										
					VOCs	SVOCs	Metals	PCBs	Pest.	CN	Asbes.	TCLP Pb&Hg	TCLP Metals	Full TCLP	Ign, Rea., pH
TP-01	3.0-4.0	2/15/2018	0.0	FILL (Concrete, Sand, Gravel, Brick, Rock, Stone)		1	1								
TP-01	6.0	2/15/2018	1.0	Brown Sand, Some Silt, Little Gravel			1								
TP-02	4.0	2/15/2018	0.0	FILL (Gray/Black Ash and Cinder), moist		1	1				1				
TP-02	10.0	2/15/2018	0.0	Gray/Brown Silt and Sand trace Gravel and Organics, wet		1	1								
TP-04	6.0-7.0	2/15/2018	0.0	FILL (Brown Silt & Sand, Some Gravel, Trace Asphalt, Brick, Wood, Organics, Roots and Concrete), moist					1	1	1				
TP-05	6.0	2/15/2018	0.0	FILL (Brown Sand, Little Gravel, Trace Cobbles), moist		1	1				1				
TP-06	5.5	2/15/2018	0.0	FILL (Brown Silt, some Sand & Gravel, trace Brick, Cobble, Wood, Plastic), moist		1	1				1				
TP-06	9.0	2/15/2018	0.0	Brown/Gray Sand, some Silt, little Gravel, trace Organic, wet		1	1								
TP-07	4.0	2/15/2018	1.7	FILL (Brown/Gray Silt, Sand Gravel, trace Brick, Wood, Metal, Plastic, Organics), moist	1	1	1								
TP-08	5.5	2/15/2018	2.5	FILL (Brown/Gray Silt, Sand and Gravel, trace Brick, Concrete slab, Plastic, Cobbles, Organics)	1	1	1				1				
TP-09	7.0	2/15/2018	0.0	FILL (Brick, Concrete, Rock, some Sand, Silt and Gravel, trace to little Ash)		1	1								
TP-10	5.0	2/15/2018	2.0	FILL (Concrete and Brick, little Cast Iron Piping, Some Sand, Gravel and Silt), moist	1	1	1								
TP-12	5.0	2/15/2018	2.6	FILL (Brown Silt, Gravel, Concrete Block, Brick and Rock), moist	1	1	1		1	1					
TP-13	1.0-2.0	2/16/2018	0.0	FILL (Yellow/white/gray Ash)		1	1					1			
TP-13	7.0	2/16/2018	1.7	Tan/brown Sand, some Silt, trace Gravel, moist		1	1								
TP-14	3.5	2/16/2018	0.1	FILL (Gray/black Silt, some Clay, trace Brick), moist		1	1				1				
TP-14	8.5	2/16/2018	1.4	Brown/gray Sand, some Silt, little Gravel, trace Organics, moist to wet		1	1								
TP-17	4.0	2/16/2018	1.2	FILL (gray/brown/black Silt, Little Sand, Rock, Gravel, trace Brick), moist		1	1				1				
TP-19	3.0-4.0	2/16/2018	0.0	FILL (Brown Sand, Gravel, Rock and Concrete, trace Brick and Wood), moist		1	1				1				
TP-20	9.0	2/16/2018	1.5	FILL (gray/black Silt, Cinders, Ash, Burnt Wood), moist		1	1								
TP-22	4.0-5.0	2/16/2018	37.7	FILL (Black Silt, Bricks, Burnt Wood), moist, petro odor	1	1	1	1							
TP-24	4.0	4/20/2018	0.0	FILL (Brown Silt, Sand, Gravel, Concrete, Rock Plastic Sheeting Brick), moist		1	1								
TP-25	4.0-5.0	4/20/2018	0.0	Fill (Sand, trace rounded Gravel, moist )		1	1								
					5	21	22	1	2	2	6	2	1	0	0

Monitoring Wells														
Location	Date	PID of Well Headspace	Sample Observations	Parameters Tested										
				VOCs	SVOCs	Metals	PCBs	Pest.	CN	Asbes.	TCLP Pb&Hg	TCLP Metals	Full TCLP	Ign, Rea., pH
MW-01	3/9/2018	2.0	Cloudy	1										
	4/16/2018	2.0	Clear	1										
MW-02	3/9/2018	0.1	Clear	1	1	1								
	4/16/2018	0	Turbid	1										
MW-03	3/9/2018	0.3	Cloudy	1										
	4/16/2018	0	Turbid	1										
MW-04	3/9/2018	0.3	Cloudy	1										
	4/16/2018	0	Turbid	1										
MW-05	3/9/2018	6.9	Cloudy	1										
	4/16/2018	0	Turbid	1										
MW-06	3/9/2018	1.4	Clear	1										
	4/16/2018	0.5	Turbid	1										
MW-07	3/9/2018	3.2	Cloudy	1										
	4/16/2018	0.2	Turbid	1										
MW-08	3/9/2018	67.8	Clear	1	1	1								
	4/16/2018	4.2	Turbid	1										
					16	2	2	0	0	0	0	0	0	0

VOC = Volatile Organic Compound  
SVOC = Semi-Volatile Organic Compound  
Sample PID reading was the greater value between headspace and ambient air screening results  
MS/MD = Matrix Spike/Matrix Spike duplicate  
PID Reading = Photoionization Detector Reading in parts per million (ppm)  
TCLP = Toxicity Characteristic Leaching Procedure

PCB= Polychlorinated Biphenyl  
CN = Cyanide  
Pest. = Pesticides  
Rea. = Reactivity  
Asbes = Asbestos

**Table 3**

**Bulls Head High Priority Sub Area North  
Rochester, New York**

**Groundwater Elevation Data for March 9, 2018**

<b>Well ID</b>	<b>Elevation of Top Center Lid (FT)</b>	<b>Elevation of PVC Well Casing (FT)</b>	<b>Static Water Level (SWL) Measurement (FT)</b>	<b>Groundwater Elevation (FT)</b>
MW-01	536.39	535.93	5.24	530.69
MW-02	539.25	538.96	8.28	530.68
MW-03	543.70	543.40	7.35	536.05
MW-04	543.51	543.24	5.90	537.34
MW-05	544.32	544.05	6.97	537.08
MW-06	544.92	544.64	8.15	536.49
MW-07	537.00	536.58	6.53	530.05
MW-08	536.66	536.45	6.18	530.27

Note: The oil/water interface probe did not detect light non-aqueous phase liquid (LNAPL) at the well locations during collection of static water level measurements

**Table 4**

**Bulls Head High Priority Sub Area North  
Rochester, New York**

**Groundwater Elevation Data for April 16, 2018**

<b>Well ID</b>	<b>Elevation of Top Center Lid (FT)</b>	<b>Elevation of PVC Well Casing (FT)</b>	<b>Static Water Level (SWL) Measurement (FT)</b>	<b>Groundwater Elevation (FT)</b>
MW-01	536.39	535.93	4.96	530.97
MW-02	539.25	538.96	8.25	530.71
MW-03	543.70	543.40	7.34	536.06
MW-04	543.51	543.24	5.80	537.44
MW-05	544.32	544.05	6.99	537.06
MW-06	544.92	544.64	8.67	535.97
MW-07	537.00	536.58	6.42	530.16
MW-08	536.66	536.45	6.00	530.45

Note: The oil/water interface probe did not detect light non-aqueous phase liquid (LNAPL) at the well locations during collection of static water level measurements

Table 5

**Bulls Head Sub Area North  
Rochester, New York**

**Summary of Detected VOC Results in mg/Kg or Parts Per Million (ppm)**

**Soil and Fill Samples**

Detected Constituent	CAS Number	A	B	C	D	G	R1801334-003	R1801334-004	R1801334-005	R1801334-005	R1801334-005	R1801334-008	R1801334-010	R1801334-011	
		Unrestricted SCO <sup>(1)</sup>	Residential SCO <sup>(1)</sup>	Restricted Residential SCO <sup>(1)</sup>	Commercial SCO <sup>(1)</sup>	Protection of Groundwater SCO <sup>(1)</sup>	TB-04 (2.5) 2/12/18 Fill	TB-07 (5.5) 2/12/18 Fill	TB-10 (15.0) 2/12/18 Fill	TB-13 (8.0) 2/12/18 Soil	TB-14 (7.0) 2/13/18 Fill	TB-15 (7.0-7.5) 2/13/18 Soil	TB-19 (10.0) 2/13/18 Soil	TB-20 (3.0) 2/13/18 Soil	
Acetone	67-64-1	0.05	100	100	500	0.05	0.038	0.068	<b>AG</b>	0.040	0.0023 J	U	0.024	0.0091	0.010
Benzene	71-43-2	0.06	2.9	4.8	44	0.06	0.0011 J	0.00032 J	0.00030 J	U	U	U	0.00045 J	0.0064	
2-Butanone (MEK)	78-93-3	0.12	100	100	500	0.12	0.0052	0.010	0.012	U	U	U	0.0021 J	0.0018 J	
n-Butylbenzene	104-51-8	12	100	100	500	12	0.0010 J	0.0024 J	U	U	7.5	U	U	U	
sec-Butylbenzene	135-98-8	11	100	100	500	11	U	U	U	U	3.4	U	U	U	
tert-Butylbenzene	98-06-6	5.9	100	100	500	5.9	U	U	U	U	0.760 J	U	U	U	
Carbon Disulfide	75-15-0	NA	100	NA	NA	2.7	U	0.015	U	U	U	U	U	U	
Cyclohexane	110-82-7	NA	NA	NA	NA	NA	0.020	U	U	U	1.300 J	U	0.0017 J	0.012	
Ethylbenzene	100-41-4	1	30	41	390	1	0.0013 J	U	U	U	0.720 J	U	U	0.0018 J	
Isopropylbenzene	98-82-8	NA	100	NA	NA	2.3	U	U	U	U	1.1 J	U	U	U	
p-Isopropyltoluene	99-87-6	NA	NA	NA	NA	10	U	0.00099 J	U	U	3.7	U	U	U	
Methylene chloride	75-09-2	0.05	51	100	500	0.05	0.00062 J	U	0.00061 J	U	U	U	U	0.00050 J	
Methylcyclohexane	108-87-2	NA	NA	NA	NA	NA	0.0032 J	0.0017 J	U	U	5.2	U	0.0020 J	0.020	
n-Propylbenzene	103-65-1	3.9	100	100	500	3.9	0.0011 J	U	U	U	2.4	U	U	U	
Styrene	100-42-5	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	
1,1,2,2-Tetrachloroethane	79-34-5	NA	35	NA	NA	0.6	0.0012 J	0.0011 J	U	U	U	U	U	U	
Tetrachloroethene	127-18-4	1.3	5.5	19	150	1.3	U	U	U	U	U	U	U	U	
Toluene	108-88-3	0.7	100	100	500	0.7	0.0023 J	U	U	U	U	U	0.0016 J	0.015	
Trichloroethene	79-01-6	0.47	10	21	200	0.47	U	U	U	U	U	U	U	U	
Trichlorofluoromethane (Freon 11)	75-69-4	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	
1,2,4-Trimethylbenzene	95-63-6	3.6	47	52	190	3.6	0.0021 J	0.0082	U	U	27	<b>AG</b>	0.00066 J	0.0071	
1,3,5-Trimethylbenzene	108-67-8	8.4	47	52	190	8.4	0.0012 J	0.0025 J	U	U	8.1	U	U	0.0035 J	
m,p-Xylene	179601-23-1	0.26	100	100	500	1.6	0.0021 J	U	U	U	2.9	<b>AG</b>	0.0015 J	0.014	
o-Xylene	95-47-6	0.26	100	100	500	1.6	0.00090 J	U	U	U	0.220 J	U	U	0.0042	
Total VOCs		NA	NA	NA	NA	NA	0.08132	0.11021	0.05291	0.0023	64.300	0.024	0.01911	0.0963	

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

- A** = Concentration Exceeds Unrestricted Use SCO
- B** = Concentration Exceeds Residential Use SCO
- C** = Concentration Exceeds Restricted Residential Use SCO
- D** = Concentration Exceeds Commercial Use SCO
- G** = Concentration Exceeds Protection of Groundwater SCO

B = Also detected in associated blank

J = Estimated Value

U = Not Detected

D = Data reported from a dilution

VOC = Volatile Organic Compound

NA = Not Available



Table 5

**Bulls Head Sub Area North  
Rochester, New York**

**Summary of Detected VOC Results in mg/Kg or Parts Per Million (ppm)**

**Soil and Fill Samples**

Detected Constituent	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO <sup>(1)</sup>	G Protection of Groundwater SCO <sup>(1)</sup>	R1801334-012	R1801334-013	R1801453-008	R1801453-009	R1801453-011	R1801453-012	R1801453-019	R1801818-001
							TB-21 (5.0) 2/13/18 Soil	TB-22 (12.0) 2/13/18 Soil	TP-07 (4.0) 2/15/18 Fill	TP-08 (5.5) 2/15/18 Fill	TP-10 (5.0) 2/15/18 Fill	TP-12 (5.0) 2/15/18 Fill	TP-22 (4.0-5.0) 2/16/18 Fill	MW-08 (6.0-8.0) 2/28/18 Soil
Acetone	67-64-1	0.05	100	100	500	0.05	0.0093	U	0.042 B	0.033 B	0.0043 BJ	0.022 B	0.034 B	U
Benzene	71-43-2	0.06	2.9	4.8	44	0.06	0.00058 J	U	U	0.0034 J	U	U	0.00057 J	0.890 <b>AG</b>
2-Butanone (MEK)	78-93-3	0.12	100	100	500	0.12	U	U	0.012	0.0071	U	U	0.0091	U
n-Butylbenzene	104-51-8	12	100	100	500	12	U	U	U	U	U	U	0.170	0.790 J
sec-Butylbenzene	135-98-8	11	100	100	500	11	U	U	U	U	U	U	0.150	0.390 J
tert-Butylbenzene	98-06-6	5.9	100	100	500	5.9	U	U	U	U	U	U	U	U
Carbon Disulfide	75-15-0	NA	100	NA	NA	2.7	U	U	U	0.0015 J	U	U	0.0021 J	U
Cyclohexane	110-82-7	NA	NA	NA	NA	NA	U	U	U	U	U	U	0.0026 J	0.450 J
Ethylbenzene	100-41-4	1	30	41	390	1	U	U	U	0.0030 J	U	0.00038 J	0.018	1.300 <b>AG</b>
Isopropylbenzene	98-82-8	NA	100	NA	NA	2.3	U	U	U	0.00067 J	U	U	0.063	0.320 J
p-Isopropyltoluene	99-87-6	NA	NA	NA	NA	10	U	U	U	U	U	U	0.780 D	U
Methylene chloride	75-09-2	0.05	51	100	500	0.05	U	U	U	0.00061 J	0.00074 J	U	U	U
Methylcyclohexane	108-87-2	NA	NA	NA	NA	NA	0.0014 J	U	U	U	U	U	0.023	1.800
n-Propylbenzene	103-65-1	3.9	100	100	500	3.9	U	U	U	U	U	U	0.084	1.300
Styrene	100-42-5	NA	NA	NA	NA	NA	U	U	U	0.0025 J	U	U	U	U
1,1,2,2-Tetrachloroethane	79-34-5	NA	35	NA	NA	0.6	U	U	U	U	U	U	U	U
Tetrachloroethene	127-18-4	1.3	5.5	19	150	1.3	0.00095 J	U	U	U	U	U	U	U
Toluene	108-88-3	0.7	100	100	500	0.7	0.0015 J	U	U	U	U	U	0.0029 J	2.600 <b>AG</b>
Trichloroethene	79-01-6	0.47	10	21	200	0.47	U	U	U	0.0012 J	U	U	U	U
Trichlorofluoromethane (Freon 11)	75-69-4	NA	NA	NA	NA	NA	U	U	U	0.00059 J	U	U	U	U
1,2,4-Trimethylbenzene	95-63-6	3.6	47	52	190	3.6	0.00052 J	U	U	0.0013 J	U	0.0065	5.000 D <b>AG</b>	2.400
1,3,5-Trimethylbenzene	108-67-8	8.4	47	52	190	8.4	U	U	U	0.00063 J	U	0.0021 J	0.240 DJ	0.310 J
m,p-Xylene	179601-23-1	0.26	100	100	500	1.6	0.0011 J	U	U	0.0020 J	U	0.0018 J	0.023	4.900 <b>AG</b>
o-Xylene	95-47-6	0.26	100	100	500	1.6	U	U	U	0.0012 J	U	0.0010 J	0.020	0.790 J <b>A</b>
Total VOCs		NA	NA	NA	NA	NA	0.01535	0.000	0.054	0.05870	0.00504	0.03378	6.62227	18.240

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

- A** = Concentration Exceeds Unrestricted Use SCO
- B** = Concentration Exceeds Residential Use SCO
- C** = Concentration Exceeds Restricted Residential Use SCO
- D** = Concentration Exceeds Commercial Use SCO
- G** = Concentration Exceeds Protection of Groundwater SCO

B = Also detected in associated blank

J = Estimated Value

U = Not Detected

D = Data reported from a dilution

VOC = Volatile Organic Compound

NA = Not Available

Table 6

Bulls Head Sub Area North  
Rochester, New York

Summary of Detected SVOC Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Constituent	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801334-001 TB-01 (3.0) 2/12/18 Fill	R1801334-002 TB-02 (8.0) 2/12/18 Fill	R1801334-003 TB-04 (2.5) 2/12/18 Fill	R1801334-007 TB-14 (7.0) 2/13/18 Fill	R1801334-009 TB-18 (10.0-11.0) 2/13/18 Soil	R1801334-014 TB-24 (2.5) 2/13/18 Fill	R1801453-001 TP-01 (3.0-4.0) 2/15/18 Fill	R1801453-002 TP-02 (4.0) 2/15/18 Fill
Acenaphthene	83-32-9	20	100	100	500	98	U	U	U	0.220 J	U	U	U	U
Acenaphthylene	208-96-8	100	100	100	500	107	U	U	U	U	U	U	U	U
Anthracene	120-12-7	100	100	100	500	1000	U	0.170 J	U	U J	U	U	U	U
Benzo(a)anthracene	56-55-3	1	1	1	5.6	1	0.086 J	0.450 J	U	U	U	0.093 J	0.680 J	0.280 J
Benzo(a)pyrene	50-32-8	1	1	1	1	22	0.091 J	0.400 J	U	U	U	0.100 J	0.770 J	0.290 J
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	1.7	0.120 J	0.480 J	0.160 J	U	U	0.170 J	1.100 J	0.350 J
Benzo(g,h,i)perylene	191-24-2	100	100	100	500	1000	0.092 J	0.270 J	U	U	U	0.140 J	0.780 J	0.230 J
Benzo(k)fluoranthene	207-08-9	0.8	1.0	3.9	56	1.7	U	0.190 J	U	U	U	U	U	0.130 J
Biphenyl	92-52-4	NA	NA	NA	NA	NA	U	U	U	0.220 J	U	U	U	U
Butyl benzyl phthalate	85-68-7	NA	100	NA	NA	122	U	U	U	U	U	U	U	U
Carbazole	86-74-8	NA	NA	NA	NA	NA	U	0.150 J	U	U	U	U	U	U
Chrysene	218-01-9	1	1	3.9	56	1	0.100 J	0.490 J	U	U	U	0.110 J	0.920 J	0.320 J
Dibenzo(a,h) anthracene	53-70-3	0.33	0.33	0.33	0.56	1000	U	U	U	U	U	U	U	U
Dibenzofuran	132-64-9	7	14	59	350	210	U	U	U	U	U	U	U	U
Fluoranthene	206-44-0	100	100	100	500	1000	0.160 J	0.980	U	U	U	0.110 J	1.900	0.670
Fluorene	86-73-7	30	100	100	500	386	U	U	U	0.350 J	U	U	U	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	8.2	0.090 J	0.290 J	U	U	U	0.110 J	0.720 J	0.230 J
2-Methylnaphthalene	91-57-6	NA	0.41	NA	NA	36.4	U	U	U	1.800	U	U	U	U
3 & 4-Methylphenol (m & p-Cresol)	108-39-4, 106-44-5	0.33	100	100	500	0.33	U	0.170 J	U	U	U	U	U	U
Naphthalene	91-20-3	12	100	100	500	12	U	U	U	0.250 J	U	U	U	U
Phenanthrene	85-01-8	100	100	100	500	1000	0.091 J	0.880	U	1.300	U	U	1.200 J	0.370 J
Pyrene	129-00-0	100	100	100	500	1000	0.150 J	0.800	U	U	U	0.098 J	1.600 J	0.560
Total SVOCs		NA	NA	NA	NA	NA	0.980	5.720	0.160	4.140	0.000	0.931	9.670	3.430

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

SVOC = Semi-Volatile Organic Compound

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

U = Not detected

**A** = Concentration Exceeds Unrestricted Use SCO

J = Estimated Value

**B** = Concentration Exceeds Residential Use SCO

NA = Not Available

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

Table 6

Bulls Head Sub Area North  
Rochester, New York

Summary of Detected SVOC Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Constituent	CAS Number	Soil Cleanup Objectives (SCO)					Sample Locations										
		A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801453-003 TP-02 (10.0) 2/15/18 Soil	R1801453-005 TP-05 (6.0) 2/15/18 Fill	R1801453-006 TP-06 (5.5) 2/15/18 Fill	R1801453-007 TP-06 (9.0) 2/15/18 Soil	R1801453-008 TP-07 (4.0) 2/15/18 Fill	R1801453-009 TP-08 (5.5) 2/15/18 Fill	R1801453-010 TP-09 (7.0) 2/15/18 Fill	R1801453-011 TP-10 (5.0) 2/15/18 Fill			
Acenaphthene	83-32-9	20	100	100	500	98	U	U	U	U	0.2200 J	0.960 J	U	U			
Acenaphthylene	208-96-8	100	100	100	500	107	U	U	U	U	U	U	U	U			
Anthracene	120-12-7	100	100	100	500	1000	U	U	U	U	0.680	3.200	0.400 J	U			
Benzo(a)anthracene	56-55-3	1	1	1	5.6	1	U	U	0.097 J	U	1.700	ABCG	4.400	ABCG	0.930	0.590 J	
Benzo(a)pyrene	50-32-8	1	1	1	1	22	U	U	0.130 J	U	1.400	ABCD	3.700	ABCD	1.000	0.660 J	
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	1.7	U	U	0.170 J	U	1.800	ABCG	4.400	ABCG	1.200	ABC	0.780 J
Benzo(g,h,i)perylene	191-24-2	100	100	100	500	1000	U	U	0.110 J	U	0.710	U	2.300	U	0.540 J	0.480 J	
Benzo(k)fluoranthene	207-08-9	0.8	1.0	3.9	56	1.7	U	U	U	U	0.700	U	1.700	AB	0.450 J	U	
Biphenyl	92-52-4	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	U	U	
Butyl benzyl phthalate	85-68-7	NA	100	NA	NA	122	U	U	U	U	U	U	U	U	U	U	
Carbazole	86-74-8	NA	NA	NA	NA	NA	U	U	U	U	0.300 J	1.700	U	U	U	U	
Chrysene	218-01-9	1	1	3.9	56	1	U	U	0.120 J	U	1.700	ABG	4.200	ABCG	0.960	0.630 J	
Dibenzo(a,h)anthracene	53-70-3	0.33	0.33	0.33	0.56	1000	U	U	U	U	0.200 J	0.580 J	ABCD	U	U	U	
Dibenzofuran	132-64-9	7	14	59	350	210	U	U	U	U	0.120 J	1.300	U	U	U	U	
Fluoranthene	206-44-0	100	100	100	500	1000	U	U	0.140 J	U	4.100	12.000	1.600	U	1.100 J	U	
Fluorene	86-73-7	30	100	100	500	386	U	U	U	U	0.200 J	1.400	U	U	U	U	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	8.2	U	U	0.092 J	U	0.860	ABC	2.500	ABC	0.590 J	ABC	0.460 J
2-Methylnaphthalene	91-57-6	NA	0.41	NA	NA	36.4	U	U	U	U	U	0.500 J	B	U	U	U	
3 & 4-Methylphenol (m & p-Cresol)	108-39-4, 106-44-5	0.33	100	100	500	0.33	U	U	U	U	U	U	U	U	U	U	U
Naphthalene	91-20-3	12	100	100	500	12	U	U	U	U	U	1.400	U	U	U	U	U
Phenanthrene	85-01-8	100	100	100	500	1000	U	U	U	U	2.800	12.000	1.500	U	0.570 J	U	
Pyrene	129-00-0	100	100	100	500	1000	U	U	0.130 J	U	3.200	9.400	1.600	U	0.990 J	U	
Total SVOCs		NA	NA	NA	NA	NA	0.000	0.000	0.9890	0.000	20.690	67.640	10.770	6.260			

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

SVOC = Semi-Volatile Organic Compound

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

U = Not detected

**A** = Concentration Exceeds Unrestricted Use SCO

J = Estimated Value

**B** = Concentration Exceeds Residential Use SCO

NA = Not Available

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

**Table 6**  
**Bulls Head Sub Area North**  
**Rochester, New York**  
**Summary of Detected SVOC Results in mg/Kg or Parts Per Million (ppm)**  
**Soil and Fill Samples**

Detected Constituent	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801453-012	R1801453-013	R1801453-014	R1801453-015	R1801804-005	R1801453-016	R1801453-017	R1801453-018	
							TP-12 (5.0) 2/15/18 Fill	TP-13 (1.0-2.0) 2/16/18 Fill	TP-13 (7.0) 2/16/18 Soil	TP-14 (3.5) 2/16/18 Fill	TP-14 (8.5) 2/16/18 Soil	TP-17 (4.0) 2/16/18 Fill	TP-19 (3.0-4.0) 2/16/18 Fill	TP-20 (9.0) 2/16/18 Fill	
Acenaphthene	83-32-9	20	100	100	500	98	U	U	U	U	U	U	U	U	
Acenaphthylene	208-96-8	100	100	100	500	107	0.280 J	U	U	U	U	0.130 J	U	0.760 J	
Anthracene	120-12-7	100	100	100	500	1000	0.630 J	U	U	0.290 J	U	0.370 J	U	2.300	
Benzo(a)anthracene	56-55-3	1	1	1	5.6	1	3.500 <b>ABCG</b>	U	U	1.000	U	0.950	0.490 J	4.000 <b>ABCG</b>	
Benzo(a)pyrene	50-32-8	1	1	1	1	22	2.900 <b>ABCD</b>	U	U	1.400	<b>ABCD</b>	0.920	0.590 J	3.500 <b>ABCD</b>	
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	1.7	3.500 <b>ABCG</b>	U	U	1.700	<b>ABC</b>	1.200	<b>ABC</b>	0.740 J	3.600 <b>ABCG</b>
Benzo(g,h,i)perylene	191-24-2	100	100	100	500	1000	1.400	U	U	1.000	U	0.480	U	1.700	
Benzo(k)fluoranthene	207-08-9	0.8	1.0	3.9	56	1.7	1.300 <b>AB</b>	U	U	0.590	U	0.500	U	1.500 <b>AB</b>	
Biphenyl	92-52-4	NA	NA	NA	NA	NA	U	U	U	U	U	U	U	U	
Butyl benzyl phthalate	85-68-7	NA	100	NA	NA	122	U	U	U	U	U	0.470	U	U	
Carbazole	86-74-8	NA	NA	NA	NA	NA	U	U	U	U	U	0.140 J	U	0.460 J	
Chrysene	218-01-9	1	1	3.9	56	1	3.400 <b>ABG</b>	U	U	1.100	<b>ABG</b>	0.980	0.480 J	3.500 <b>ABG</b>	
Dibenzo(a,h) anthracene	53-70-3	0.33	0.33	0.33	0.56	1000	0.430 J <b>ABC</b>	U	U	0.220 J	U	0.130 J	U	0.530 J <b>ABC</b>	
Dibenzofuran	132-64-9	7	14	59	350	210	U	U	U	0.130 J	U	U	U	0.500 J	
Fluoranthene	206-44-0	100	100	100	500	1000	5.200	U	U	1.700	U	1.900	0.790 J	8.700	
Fluorene	86-73-7	30	100	100	500	386	U	U	U	U	0.110 J	U	U	0.930	
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	8.2	1.700 <b>ABC</b>	U	U	1.100	<b>ABC</b>	0.570	<b>ABC</b>	2.300 <b>ABC</b>	
2-Methylnaphthalene	91-57-6	NA	0.41	NA	NA	36.4	U	U	U	U	U	U	U	U	
3 & 4-Methylphenol (m & p-Cresol)	108-39-4, 106-44-5	0.33	100	100	500	0.33	U	U	U	U	U	U	U	U	
Naphthalene	91-20-3	12	100	100	500	12	U	U	U	0.120 J	U	U	U	U	
Phenanthrene	85-01-8	100	100	100	500	1000	2.000	U	U	1.100	U	1.200	U	7.700	
Pyrene	129-00-0	100	100	100	500	1000	5.000	U	U	1.600	U	1.600	0.730 J	7.000	
<b>Total SVOCs</b>		NA	NA	NA	NA	NA	31.240	0.000	0.000	13.050	0.000	11.650	3.820	48.980	

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

- A** = Concentration Exceeds Unrestricted Use SCO
- B** = Concentration Exceeds Residential Use SCO
- C** = Concentration Exceeds Restricted Residential Use SCO
- D** = Concentration Exceeds Commercial Use SCO
- G** = Concentration Exceeds Protection of Groundwater SCO

SVOC = Semi-Volatile Organic Compound

- U = Not detected
- J = Estimated Value
- NA = Not Available

Table 6

Bulls Head Sub Area North  
Rochester, New York

Summary of Detected SVOC Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Constituent	CAS Number	Soil					Fill		
		A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801453-019 TP-22 (4.0-5.0) 2/16/18	R1803614-001 TP-24 (4.0) 4/20/18	R1803614-002 TP-25 (5.0) 4/20/18
Acenaphthene	83-32-9	20	100	100	500	98	2.700	U	U
Acenaphthylene	208-96-8	100	100	100	500	107	U	U	U
Anthracene	120-12-7	100	100	100	500	1000	3.800	0.110 J	U
Benzo(a)anthracene	56-55-3	1	1	1	5.6	1	7.800	ABCDG	0.320 J
Benzo(a)pyrene	50-32-8	1	1	1	1	22	8.600	ABCD	0.330 J
Benzo(b)fluoranthene	205-99-2	1	1	1	5.6	1.7	9.800	ABCDG	0.420
Benzo(g,h,i)perylene	191-24-2	100	100	100	500	1000	5.500	0.230 J	U
Benzo(k)fluoranthene	207-08-9	0.8	1.0	3.9	56	1.7	3.700	ABG	0.140 J
Biphenyl	92-52-4	NA	NA	NA	NA	NA	U	U	U
Butyl benzyl phthalate	85-68-7	NA	100	NA	NA	122	U	U	U
Carbazole	86-74-8	NA	NA	NA	NA	NA	2.000 J	U	U
Chrysene	218-01-9	1	1	3.9	56	1	7.600	ABCG	0.330 J
Dibenzo(a,h) anthracene	53-70-3	0.33	0.33	0.33	0.56	1000	1.500 J	ABCD	U
Dibenzofuran	132-64-9	7	14	59	350	210	1.900 J	U	U
Fluoranthene	206-44-0	100	100	100	500	1000	14.000	0.660	U
Fluorene	86-73-7	30	100	100	500	386	4.500	U	U
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.5	0.5	5.6	8.2	6.100	ABCD	0.220 J
2-Methylnaphthalene	91-57-6	NA	0.41	NA	NA	36.4	5.500	B	U
3 & 4-Methylphenol (m & p-Cresol)	108-39-4, 106-44-5	0.33	100	100	500	0.33	U	U	U
Naphthalene	91-20-3	12	100	100	500	12	2.700	U	U
Phenanthrene	85-01-8	100	100	100	500	1000	20.000	0.410	U
Pyrene	129-00-0	100	100	100	500	1000	12.000	0.600	U
Total SVOCs		NA	NA	NA	NA	NA	119.700	3.770	0.000

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

- A** = Concentration Exceeds Unrestricted Use SCO
- B** = Concentration Exceeds Residential Use SCO
- C** = Concentration Exceeds Restricted Residential Use SCO
- D** = Concentration Exceeds Commercial Use SCO
- G** = Concentration Exceeds Protection of Groundwater SCO

SVOC = Semi-Volatile Organic Compound

- U = Not detected
- J = Estimated Value
- NA = Not Available

Table 7

Bulls Head Sub Area North  
Rochester, New York

Summary of Metal and Cyanide Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Analyte	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801334-001 TB-01 (3.0) 2/12/18 Fill	R1801334-002 TB-02 (8.0) 2/12/18 Fill	R1801334-003 TB-04 (2.5) 2/12/18 Fill	R1801334-007 TB-14 (7.0) 2/13/18 Fill	R1801334-014 TB-24 (2.5) 2/13/18 Fill	R1801453-001 TP-01 (3.0-4.0) 2/15/18 Fill	R1801804-004 TP-01 (6.0) 2/15/18 Fill
Arsenic	7440-38-2	13	16	16	16	16	6.5	9.1	9.9	3.8	5.8	5.4	2.0
Barium	7440-39-3	350	350	400	400	820	73.4	115	44.2	50.2	24.4	46.5	25.5
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	7.5	0.909	0.358 J	1.1	0.826	1.4	1.4	0.087 J
Chromium	7440-47-3	30	36	180	1500	NA	11.7	11.0	9.0	10.4	14.0	10.7	5.1
Lead	7439-92-1	63	400	400	1000	450	117 <b>A</b>	379 <b>A</b>	161 <b>A</b>	24.5	45.6	140 <b>A</b>	3.5 J
Mercury	7439-97-6	0.18	0.81	0.81	2.8	0.73	0.351 <b>A</b>	4.3 <b>ABCDG</b>	0.088	0.071	0.024 J	0.623 <b>A</b>	U
Selenium	7782-49-2	3.9	36	180	1500	4	1.7	3.2	0.776 J	0.746 J	0.815 J	0.656 J	U
Silver	7440-22-4	2	36	180	1500	8.3	0.454 J	0.894 J	0.076 J	U	U	U	U
Cyanide		27	27	27	27	40	NT	NT	NT	NT	NT	NT	NT

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

**A** = Concentration Exceeds Unrestricted Use SCO

**B** = Concentration Exceeds Residential Use SCO

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

U = Not Detected

J = Estimated Value

NA = Not Available

NT = Not Tested

Table 7

Bulls Head Sub Area North  
Rochester, New York

Summary of Metal and Cyanide Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Analyte	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801453-002 TP-02 (4.0) 2/15/18 Fill	R1801453-002 TP-02 (10.0) 2/15/18 Soil	R1801453-004 TP-04 (6.0-7.0) 2/15/18 Fill	R1801453-005 TP-05 (6.0) 2/15/18 Fill	R1801453-006 TP-06 (5.5) 2/15/18 Fill	R1801453-007 TP-06 (9.0) 2/15/18 Soil	R1801453-008 TP-07 (4.0) 2/15/18 Fill
Arsenic	7440-38-2	13	16	16	16	16	8.6	3.5	NT	3.4	4.6	4.3	5.5
Barium	7440-39-3	350	350	400	400	820	51.7	44.4	NT	25.3	72.4	48.3	103
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	7.5	0.77	0.75	NT	0.232 J	0.474 J	0.701	0.402 J
Chromium	7440-47-3	30	36	180	1500	NA	9.8	10.7	NT	5.7	9.4	12.7	19.8
Lead	7439-92-1	63	400	400	1000	450	209 <b>A</b>	9.7	NT	6.8	86.4 <b>A</b>	32.9	23.5
Mercury	7439-97-6	0.18	0.81	0.81	2.8	0.73	11.8 <b>ABCDG</b>	0.05	NT	U	0.649 <b>A</b>	0.215 <b>A</b>	0.038 J
Selenium	7782-49-2	3.9	36	180	1500	4	1.6	0.708 J	NT	U	U	0.602 J	0.473 J
Silver	7440-22-4	2	36	180	1500	8.3	0.449 J	U	NT	U	0.124 J	U	U
Cyanide		27	27	27	27	40	NT	NT	0.13 J	NT	NT	NT	NT

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

**A** = Concentration Exceeds Unrestricted Use SCO

**B** = Concentration Exceeds Residential Use SCO

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

U = Not Detected

J = Estimated Value

NA = Not Available

NT = Not Tested

Table 7

Bulls Head Sub Area North  
Rochester, New York

Summary of Metal and Cyanide Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Analyte	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO <sup>(1)</sup>	G Protection of Groundwater SCO <sup>(1)</sup>	R1801453-009 TP-08 (5.5) 2/15/18 Fill	R1801453-010 TP-09 (7.0) 2/15/18 Fill	R1801453-011 TP-10 (5.0) 2/15/18 Fill	R1801453-012 TP-12 (5.0) 2/15/18 Fill	R1801453-013 TP-13 (1.0-2.0) 2/16/18 Fill	R1801453-014 TP-13 (7.0) 2/16/18 Soil	R1801453-015 TP-14 (3.5) 2/16/18 Fill
Arsenic	7440-38-2	13	16	16	16	16	3.9	4.1	10.7	6.5	31.4 <b>ABCDG</b>	2.5	7.5
Barium	7440-39-3	350	350	400	400	820	53.6	156	274	58.0	61.7	28.3	136
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	7.5	0.376 J	0.443 J	0.723	0.395 J	7.5 <b>ABC</b>	0.243 J	0.927
Chromium	7440-47-3	30	36	180	1500	NA	9.4	9.0	9.8	10.8	101 <b>AB</b>	6.7	21.1
Lead	7439-92-1	63	400	400	1000	450	196 <b>A</b>	93.1 <b>A</b>	554 <b>ABCG</b>	66.3 <b>A</b>	267 <b>A</b>	4.7 J	651 <b>ABCG</b>
Mercury	7439-97-6	0.18	0.81	0.81	2.8	0.73	0.111	0.382 <b>A</b>	0.447 <b>A</b>	0.517 <b>A</b>	0.096	U	2.5 <b>ABCG</b>
Selenium	7782-49-2	3.9	36	180	1500	4	0.475 J	U	U	U	2.7	U	1.3 J
Silver	7440-22-4	2	36	180	1500	8.3	0.099 J	0.117 J	0.221 J	0.395 J	0.242 J	U	0.418 J
Cyanide		27	27	27	27	40	NT	NT	NT	0.21 J	NT	NT	NT

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

**A** = Concentration Exceeds Unrestricted Use SCO

**B** = Concentration Exceeds Residential Use SCO

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

U = Not Detected

J = Estimated Value

NA = Not Available

NT = Not Tested



Table 7

Bulls Head Sub Area North  
Rochester, New York

Summary of Metal and Cyanide Results in mg/Kg or Parts Per Million (ppm)

Soil and Fill Samples

Detected Analyte	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801804-005 TP-14 (8.5) 2/16/18 Soil	R1801453-016 TP-17 (4.0) 2/16/18 Fill	R1801453-017 TP-19 (3.0-4.0) 2/16/18 Fill	R1801453-018 TP-20 (9.0) 2/16/18 Fill	R1801453-019 TP-22 (4.0-5.0) 2/16/18 Fill	R1803614-001 TP-24 (4.0) 4/20/18 Fill	R1803614-002 TP-25 (5.0) 4/20/18 Fill
Arsenic	7440-38-2	13	16	16	16	16	3.4	6.2	5.2	9.1	9.8	4.2	2.9
Barium	7440-39-3	350	350	400	400	820	34	58.2	60.7	68.5	91.4	71.0	23.0
Cadmium	7440-43-9	2.5	2.5	4.3	9.3	7.5	1.2	0.429 J	0.339 J	1	0.713	0.34 J	0.17 BJ
Chromium	7440-47-3	30	36	180	1500	NA	9.3	9.8	9.4	12.2	12.7	10.1	5.2
Lead	7439-92-1	63	400	400	1000	450	15.6	85.8 <b>A</b>	67.4 <b>A</b>	563 <b>ABCG</b>	190 <b>A</b>	100.0 <b>A</b>	4.9 J
Mercury	7439-97-6	0.18	0.81	0.81	2.8	0.73	0.089	0.129	0.103	1.5 <b>ABCG</b>	0.397 <b>A</b>	0.156	U
Selenium	7782-49-2	3.9	36	180	1500	4	1.0 J	U	U	0.979 J	0.846 J	U	U
Silver	7440-22-4	2	36	180	1500	8.3	U	0.237 J	U	0.159 J	0.121 J	0.09 J	U
Cyanide		27	27	27	27	40	NT	NT	NT	NT	NT	NT	NT

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

**A** = Concentration Exceeds Unrestricted Use SCO

**B** = Concentration Exceeds Residential Use SCO

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

U = Not Detected

J = Estimated Value

NA = Not Available

NT = Not Tested

B = Detected in associated method blank at a concentration that may have contributed to the sample result

Table 8

Bulls Head Sub Area North  
Rochester, New York

Summary of PCB Results in mg/Kg or Parts Per Million (ppm)

Fill Samples

Constituent	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801334-007 TB-14 (7.0) 2/13/2018 Fill	R1801453-019 TP-22 (4.0-5.0) 2/16/2018 Fill
Aroclor-1016	12674-11-2	0.1	1	1	1	3.2	U	U
Aroclor-1221	11104-28-2	0.1	1	1	1	3.2	U	U
Aroclor-1232	11141-16-5	0.1	1	1	1	3.2	U	U
Aroclor-1242	53469-21-9	0.1	1	1	1	3.2	U	U
Aroclor-1248	12672-29-6	0.1	1	1	1	3.2	U	U
Aroclor-1254	11097-69-1	0.1	1	1	1	3.2	U	U
Aroclor-1260	11096-82-5	0.1	1	1	1	3.2	U	U
Total PCBs		0.1	1	1	1	3.2	0	0

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006 and CP-51 dated 10/21/10

U = Not detected

PCB = Polychlorinated Biphenyl

Table 9

Bulls Head Sub Area North  
Rochester, New York

Summary of Pesticide Results in mg/Kg or Parts Per Million (ppm)

Fill Samples

Detected Analyte	CAS Number	A Unrestricted SCO <sup>(1)</sup>	B Residential SCO <sup>(1)</sup>	C Restricted Residential SCO <sup>(1)</sup>	D Commercial SCO(1)	G Protection of Groundwater SCO <sup>(1)</sup>	R1801453-004 TP-04 (6.0-7.0) 2/15/18 Fill	R1801453-012 TP-12 (5.0) 2/15/18 Fill
Dieldrin	60-57-1	0.005	0.039	0.2	1.4	0.1	0.016 <b>A</b>	U
4,4'-DDE (p,p')	72-55-9	0.0033	1.8	8.9	62	17	0.005 J <b>A</b>	U
4,4'-DDT (p,p')	50-29-3	0.0033	1.7	7.9	47	136	0.049 <b>A</b>	0.0055 J <b>A</b>
Methoxychlor	72-43-5	NA	100	NA	NA	900	0.018	U
Endrin ketone	53494-70-5	NA	NA	NA	NA	NA	0.041	U

(1) = Soil Cleanup Objective (SCO) referenced in 6 NYCRR Part 375 dated 12/14/2006

U = Not detected

J = Estimated Value

NA = Not available

Concentration in **BOLD** and **RED** print exceeds one or more of the following criteria.

**A** = Concentration Exceeds Unrestricted Use SCO

**B** = Concentration Exceeds Residential Use SCO

**C** = Concentration Exceeds Restricted Residential Use SCO

**D** = Concentration Exceeds Commercial Use SCO

**G** = Concentration Exceeds Protection of Groundwater SCO

**Table 10**

**Bulls Head Sub Area North  
Rochester, New York**

**Summary of TCLP Metal Results in ug/l or Parts Per Billion (ppb)**

**Fill Samples**

<b>Detected Analyte</b>	<b>CAS Number</b>	<b>Maximum Concentration of Contaminants for Toxicity Characteristic</b>	<b>R1801855-001 TP-02 (4.0) 2/19/18 Fill</b>	<b>R1801855-002 TP-13 (1.0-2.0) 2/19/18 Fill</b>	<b>R1801855-003 TP-14 (3.5) 2/19/18 Fill</b>
Arsenic	7440-38-2	5,000	NT	U	NT
Barium	7440-39-3	100,000	NT	U	NT
Cadmium	7440-43-9	1,000	NT	U	NT
Chromium	7440-47-3	5,000	NT	U	NT
Lead	7439-92-1	5,000	271	U	720
Mercury	7439-97-6	200	U	U	U
Selenium	7782-49-2	1,000	NT	U	NT
Silver	7440-22-4	5,000	NT	U	NT

NT = Not Tested

U = Not Detected

Bulls Head High Priority Sub Area North  
Rochester, New York

## Summary of Detected Constituents Results in ug/l or Parts per Billion (ppb)

## Groundwater Samples

Detected Constituent	CAS Number	Groundwater Standard or Guidance Value <sup>(1)</sup>	R1802137-001 MW-01 3/9/18 Groundwater	R1803412-001 MW-01 4/16/18 Groundwater	R1802137-002 MW-02 3/9/18 Groundwater	R1803412-002 MW-02 4/16/18 Groundwater	R1802137-003 MW-03 3/9/18 Groundwater	R1803412-003 MW-03 4/16/18 Groundwater	R1802137-004 MW-04 3/9/18 Groundwater	R1803412-004 MW-04 4/16/18 Groundwater
<b>Volatile Organic Compounds</b>										
Acetone	67-64-1	50	U	2.0 JB	U	1.4 JB	U	U	U	1.7 JB
tert-Butylbenzene	98-06-6	5	U	U	U	U	U	U	U	U
Carbon Disulfide	75-15-0	60	U	U	U	U	U	U	U	U
Chloroform	67-66-3	7	U	U	U	U	U	U	U	U
1,1-Dichloroethane	75-34-3	5	U	U	U	U	U	U	U	0.34 J
Cyclohexane	110-82-7	NA	U	U	U	U	U	U	U	U
Methylcyclohexane	108-87-2	NA	U	U	U	U	U	U	U	U
Total VOCs		NA	0.0	2.0	0.0	1.4	0.0	0.0	0.0	2.04
Total TICs		NA	NT	0.0	NT	12.2 JN	NT	0.0	NT	0.0
Total VOCs and TICs		NA	0.0	2.0	0.0	13.6	0.0	0.0	0.0	2.04
<b>Semi-Volatile Organic Compounds</b>										
Naphthalene	91-20-3	10	NT	NT	10	NT	NT	NT	NT	NT
Total SVOCs		NA	NT	NT	10.00	NT	NT	NT	NT	NT
<b>Metals</b>										
Barium	7440-39-3	1,000	NT	NT	138	NT	NT	NT	NT	NT

U = Not detected

VOC = Volatile Organic Compound

SVOC = Semi-Volatile Organic Compound

NA = Not available

NT = Not tested

<sup>(1)</sup> Groundwater standard or guidance value are as referenced in NYSDEC TOGS 1.1.1 dated June 1998 with April 2000 and June 2004 addendums.

X = Concentration exceeds groundwater standard or guidance value

J = Estimated Value

B= Constituent was also detected in the associated trip blank, which may have contributed to the sample result.

N = Indicates presumptive evidence of a compound

Bulls Head High Priority Sub Area North  
Rochester, New York

## Summary of Detected Constituents Results in ug/l or Parts per Billion (ppb)

## Groundwater Samples

Detected Constituent	CAS Number	Groundwater Standard or Guidance Value <sup>(1)</sup>	R1802137-005 MW-05 3/9/18 Groundwater	R1803412-005 MW-05 4/16/18 Groundwater	R1802137-006 MW-06 3/9/18 Groundwater	R1803412-006 MW-06 4/16/18 Groundwater	R1802137-007 MW-07 3/9/18 Groundwater	R1803412-007 MW-07 4/16/18 Groundwater	R1802137-001 MW-08 3/9/18 Groundwater	R1803412-008 MW-08 4/16/18 Groundwater
<b>Volatile Organic Compounds</b>										
Acetone	67-64-1	50	U	U	U	U	U	3.6 JB	U	2.9 JB
tert-Butylbenzene	98-06-6	5	U	U	U	U	U	0.25 J	U	U
Carbon Disulfide	75-15-0	60	U	U	U	U	U	U	U	0.45 J
Chloroform	67-66-3	7	U	0.49	U	U	U	U	U	U
1,1-Dichloroethane	75-34-3	5	U	U	U	U	U	U	U	U
Cyclohexane	110-82-7	NA	U	U	U	U	U	0.56 J	U	U
Methylcyclohexane	108-87-2	NA	U	U	U	U	U	U	U	0.29 J
Total VOCs		NA	0.0	0.49	0.0	0.0	0.0	4.41	0.0	3.6
Total TICs		NA	NT	0.0	NT	0.0	NT	0.0	NT	5.0 J
Total VOCs and TICs		NA	0.0	0.5	0.0	0.0	0.0	4.4	0.0	8.6
<b>Semi-Volatile Organic Compounds</b>										
Naphthalene	91-20-3	10	NT	NT	NT	NT	NT	NT	U	NT
Total SVOCs		NA	NT	NT	NT	NT	NT	NT	U	NT
<b>Metals</b>										
Barium	7440-39-3	1,000	NT	NT	NT	NT	NT	NT	78	NT

U = Not detected

VOC = Volatile Organic Compound

SVOC = Semi-Volatile Organic Compound

NA = Not available

NT = Not tested

<sup>(1)</sup> Groundwater standard or guidance value are as referenced in NYSDEC TOGS 1.1.1 dated June 1998 with April 2000 and June 2004 addendums.

X = Concentration exceeds groundwater standard or guidance value

Results of Data Usability Report have been incorporated

B= Constituent was also detected in the associated trip blank, which may have contributed to the sample result.

N = Indicates presumptive evidence of a compound

**APPENDIX A**

**Excerpts from 5 Kensington Street and 50 York Street  
Confirmatory Phase II Environmental Site Assessment Reports**

**CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**

**5 KENSINGTON STREET  
ROCHESTER, NEW YORK**

**Prepared for:** City of Rochester  
30 Church Street, Room 300B  
Rochester, New York 14614

**Prepared by:** Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

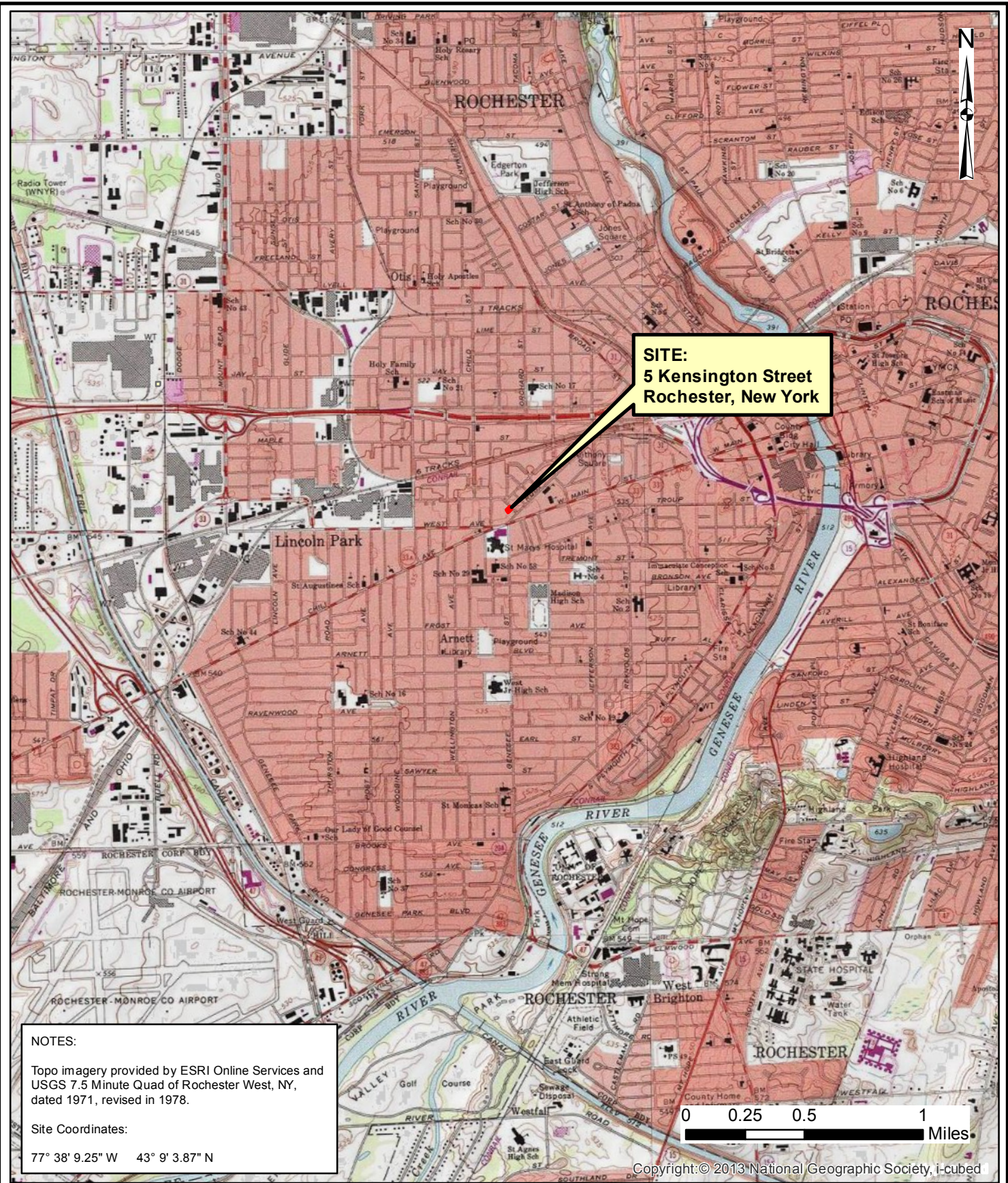
**Project No.:** 5409S-17

**Date:** January 11, 2018



## **FIGURES**



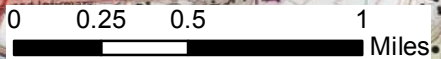


**SITE:**  
5 Kensington Street  
Rochester, New York

**NOTES:**

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Rochester West, NY, dated 1971, revised in 1978.

Site Coordinates:  
77° 38' 9.25" W    43° 9' 3.87" N



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Document Path: E:\GIS Mapping\Roch\5409S-17\Roch\5409S-01 - Locus Map.mxd

Last Date Saved: 21 Nov 2017

Date	11-21-2017
Drawn By	CPS
Scale	AS NOTED

**day**  
**DAY ENVIRONMENTAL, INC.**  
Environmental Consultants  
Rochester, New York 14606  
New York, New York 10170

Project Title	5 KENSINGTON STREET ROCHESTER, NEW YORK
Drawing Title	CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT
Project Locus Map	

Project No.	5409S-17
FIGURE 1	





**NOTES:**

Test borings were located using a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Parcel boundaries provided by the City of Rochester department of environmental services, dated 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015

Date	11-21-2017
Drawn By	CPS
Scale	AS NOTED

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title	5 KENSINGTON STREET ROCHESTER, NEW YORK
Drawing Title	CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT
	Site Plan with Test Boring Locations

Project No.	5409S-17
	FIGURE 2

## **TABLES**

**Table 1**  
**5 Kensington Street**  
**Rochester, New York**

**VOCs Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (1.5)		TB-2 (11)		TB-3 (1.5)		TB-4 (1)		TB-4 (10)	
				10/13/2017		10/13/2017		10/13/2017		10/13/2017		10/13/2017	
				10:55		13:00		13:19		13:37		13:46	
Acetone	0.05	100	500	U		0.0726		U		U		U	
Methylene Chloride	0.05	100	500	0.00303	J	0.00255	J	0.00241	J	0.0049	J	0.00413	J
Naphthalene	12	100	500	U		U		U		0.003	J	U	
TICs	NS	NS	NS	U		U		U		U		U	
Total VOCs & TICs	NS	NS	NS	0.00303		0.07515		0.00241		0.0079		0.00413	

Notes:

VOC = Volatile Organic Compound

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

TICs = Tentatively Identified Compoujnds

U = Analyte included in the analysis, but not detected at or above the method detection limit

J = Detected above the method detection limit but below the reporting limit; therefore, result is an estimated concentration

**Table 2**  
**5 Kensington Street**  
**Rochester, New York**

**SVOCs Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (5)			TB-2 (5)			TB-3 (3)			TB-4 (2)		
				10/13/2017			10/13/2017			10/13/2017			10/13/2017		
				10:57			12:53			13:22			13:45		
Benzo(a)anthracene	1	1	5.6	0.110			U			0.889	D		U		
Benzo(a)pyrene	1	1	1	0.106			U			0.856	D		U		
Benzo(b)fluoranthene	1	1	5.6	0.108			U			0.724	JD		U		
Benzo(g,h,i)perylene	100	100	500	0.0879			U			0.623	JD		U		
Benzo(k)fluoranthene	0.8	3.9	56	0.0875			U			0.796	JD		U		
Chrysene	1	3.9	56	0.105			U			0.885	D		U		
Fluoranthene	100	100	500	0.200			U			1.590	D		U		
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	0.0837	J		U			<b>0.535</b>	JD	<b>AB</b>	U		
Phenanthrene	100	100	500	0.0955			U			1.130	D		U		
Pyrene	100	100	500	0.174			U			1.470	D		U		
TICS	NS	NS	NS	1.1			U			U			U		
Total SVOCs & TICs	NS	NS	NS	2.2576			U			9.498			U		

**Notes:**

SVOC = Semi-Volatile Organic Compound

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

U = Analyte included in the analysis, but not detected at or above the method detection limit

J = Detected above the method detection limit but below the reporting limit; therefore, result is an estimated concentration

D = Data reported from a dilution

**A** = Concentration exceeds Unrestricted Use SCO

**B** = Concentration exceeds Restricted Residential UseSCO

**Table 3**  
**5 Kensington Street**  
**Rochester, New York**

**Metals Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (1.5)			TB-2 (5)			TB-3 (3)			TB-4 (2)		
				10/13/2017			10/13/2017			10/13/2017			10/13/2017		
				10:55			12:53			13:22			13:45		
Arsenic	13	16	16	4.87			<b>15.8</b>		<b>A</b>	6.29			2.43		
Barium	350	400	400	62.8			142			74.6			27		
Cadmium	2.5	4.3	9.3	0.036	J		U			U			U		
Chromium	30	180	1500	5.61			11.0			8.77			3.97		
Lead	63	400	1000	<b>141</b>		<b>A</b>	<b>336</b>		<b>A</b>	<b>284</b>		<b>A</b>	22.0		
Selenium	3.9	180	1500	0.666	J		1.13	J		1.00	J		0.476	J	
Silver	2	180	1500	0.744	J		<b>5.40</b>		<b>A</b>	0.782	J		U		
Mercury	0.18	0.81	2.8	<b>0.422</b>		<b>A</b>	<b>1.86</b>	D	<b>AB</b>	<b>1.52</b>	D	<b>AB</b>	0.0388		

**Notes:**

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

U = Analyte included in the analysis, but not detected at or above the method detection limit

J = Detected above the method detection limit but below the reporting limit; therefore, result is an estimated concentration

D = Data reported from a dilution

NS = No Standard Available

**A** = Concentration exceeds Unrestricted Use SCO

**B** = Concentration exceeds Restricted Residential Use SCO

**Table 4**  
**5 Kensington Street**  
**Rochester, New York**

**PCBs Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (5)			TB-2 (5)			TB-3 (3)			TB-4 (2)		
				10/13/2017			10/13/2017			10/13/2017			10/13/2017		
				10:57			12:53			13:22			13:45		
Aroclor-1260	0.1	1	1	U			U			U			<b>0.187</b>		<b>A</b>
Total PCBs	0.1	1	1	U			U			U			<b>0.187</b>		<b>A</b>

**Notes:**

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006  
 Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)  
 U = Analyte included in the analysis, but not detected at or above the method detection limit  
 NS = No Standard Available  
 A = Concentration exceeds Unrestricted Use SCO



**APPENDIX A**

**GPRS Inc. Report**



**GROUND  
PENETRATING  
RADAR  
SYSTEMS, INC.**

Wednesday, September 27, 2017

**Day Environmental, Inc.**

**Attn: Jeff Danzinger**

**Site: 5 Kensington Street, Rochester, NY**

**Re: GPR Investigation for Underground Utilities and UST's**

We appreciate the opportunity to provide this report for our work completed on 9/20/17.

#### **PURPOSE**

The purpose of this project was to search for underground anomalies, including utilities, UST related items, and foundations, within an approximate 130'x80' area at the address listed above. This area has been clearly distinguished in the following site sketch of the findings.

#### **EQUIPMENT**

- **Ground Penetrating Radar (GPR), Manufacturer: GSSI, Model: SIR-3000 processing unit with 400 MHz antenna.** GPR works by sending pulses of energy into a material and recording the strength and the time required for the return of the reflected signal. Reflections are produced when the energy pulses enter into a material with different electrical properties from the material it left. The strength of the reflection is determined by the contrast in signal speed between the two materials. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the conductivity of the materials. For more information, please visit: <http://www.geophysical.com/Documentation/Brochures/GSSI-UtilityScanBrochure.pdf>
- **RD7000 pipe locator, Manufacturer: Radiodetection.** The RD7000 can detect the electromagnetic fields from live power or radio frequency signals. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes, risers, or tracer wires. A tone is sent through the pipe or tracer wire at a specific frequency which can then be detected by the receiver. For more information, please visit: <http://www.spx.com/en/radiodetection/pd-rd7000/>

#### **PROCESS**

Our process began with using the RD7000 to locate pipes or utilities throughout the scan area. We first swept all areas with the receiver to detect live power or radio frequency signals followed by connecting to any visible risers or tracer wires that were in the area provided that there was an exposed metallic surface. Locations and depths were painted or flagged on the surface. Depths cannot always be provided depending on the location method and can be prone to error.

Initial GPR scans were then collected in order to evaluate the data and calibrate the equipment. Based on these findings, a survey strategy is formed, typically consisting of scanning the entire area in a grid with 3'-5' scan spacing in order to locate any potential utilities, UST's, etc. that were not found with RD. The GPR data is interpreted in real time and anomalies in the data are located and marked on the surface along with their depths using spray paint, pin flags, etc. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site.

## **LIMITATIONS**

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above ground features, and utilization of services such as Dig Alert/Underground Service Alert.

At this site, our penetration depths were limited to 3.5'-4' throughout the area. Also, as on all projects, we could not see anomalies closer than, and running parallel to any above ground obstructions (foundation edges sticking up above the rest of the ground surface).

## **FINDINGS:**

After scanning all areas we were able to detect the presence of possible former building foundations. The detection of these foundations appeared to be clustered on the western edge of the premises in the area scanned. The depth of the foundations appeared to differ; in most locations they were only a few inches beneath the surface, while in other locations we believe they may have been as deep as 3' beneath the surface. These areas have been labeled in the site sketch at the end of this report.

As for utilities and UST's, we did not detect any anomalies that would suggest their presence was on site. We did see two pipe stub ups on the premises, but could not find any anomalies showing their paths.

The following page will further explain the findings.

---

## **CLOSING**

Ground Penetrating Radar Systems, Inc. has been in business for over 15 years, specializing in underground storage tank location, concrete scanning, utility locating, as well as shallow void detection throughout the US and Canada. I encourage you to visit our website ([www.gp-radar.com](http://www.gp-radar.com)) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this GPR Investigation.

Signed,

Jim Bell  
Project Manager- Upstate New York



Direct: 315-715-5137  
[jim.bell@gp-radar.com](mailto:jim.bell@gp-radar.com)  
[www.gp-radar.com](http://www.gp-radar.com)



**APPENDIX B**

**Test Boring Logs**

Project #: 5409S-17  
 Project Address: 5 Kensington Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-1**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 14.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 10' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Brown, Silty Topsoil with Vegetation	
								Medium Brown, SILT, damp (FILL)	
							0.1	Mottled Black and Tan, Silt, Ash, Coal, Gravel, moist to wet (FILL)	
2	NA	S-1	0-4	70	NA	0.1		Medium Brown, Silty Clay, some Gravel (FILL)	
							0.0	Mottled Black and Tan, Silt, Ash, Coal, Gravel (FILL)	
3									
4							0.0	...trace red Brick	
5							0.0		
6	NA	S-2	4-8	60	NA	0.1		Brown, SILT, some Clay, trace Gravel and Sand, moist	
7							0.1		
8									
9							0.0	Brown, Silty CLAY, trace Gravel, soft	
10	NA	S-3	8-12	75	NA	0.1		Dark Brown, Clayey SILT, some Gravel, wet	
11							0.0		
12									
13	NA	S-4	12-14.5	40	NA	0.1	0.1		
14									
15								Refusal @ 14.5' on inferred bedrock	
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-1**

1563 LYLELL AVENUE  
 ROCHESTER, NEW YORK 14606  
 (585) 454-0210  
 FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300  
 NEW YORK, NEW YORK 10170  
 (212) 986-8645  
 FAX (212) 986-8657

Project #: 5409S-17  
 Project Address: 5 Kensington Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-2**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 12.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at ~9.0' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Medium Brown, Silty Sand and Gravel, damp (FILL)	
2	NA	S-1	0-4	70	NA	0.0	0.1 0.0	...traces of Ash	
3							0.0		
4							0.0	Light Brown/Black, Silt, Ash, Coal (FILL)	
5							0.1		
6	NA	S-2	4-8	70	NA	0.1	0.2		
7								Dark Brown, SILT, some Sand and Clay	
8							0.0		
9							0.1	Gray, Silty CLAY, wet	
10	NA	S-3	8-12	50	NA	0.1	0.0		
11							0.0	Broken Rock, wet	
12								Bottom of Hole @ 12.0'	
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-2**

1563 LYELL AVENUE  
 ROCHESTER, NEW YORK 14606  
 (585) 454-0210  
 FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300  
 NEW YORK, NEW YORK 10170  
 (212) 986-8645  
 FAX (212) 986-8657

Project #: 5409S-17  
 Project Address: 5 Kensington Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-3**

Ground Elevation: NA Datum: NA  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 12.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at ~9.0' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Dark Brown, Gravel (FILL)	
								...Broken Rock or Concrete	
							0.1	Medium Brown, Sandy Silt, trace Gravel (FILL)	
2	NA	S-1	0-4	70	NA	0.0		Dark Brown, Silt, Vegetation (FILL)	
							0.0	...Layer of some white Ash	
3							0.0		
4							0.1	Dark Brown, SILT, damp	
5							0.1		
6	NA	S-2	4-8	80	NA	0.1		...Medium Brown	
7							0.0		
							0.0	...Dark Brown	
8							0.0		
9							0.0	Brown, Silty CLAY, some Gravel, wet	
10	NA	S-3	8-12	70	NA	0.1			
11							0.1		
12								Broken Rock	
								Bottom of Hole @ 12.0'	
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-3**

1563 LYLELL AVENUE  
 ROCHESTER, NEW YORK 14606  
 (585) 454-0210  
 FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300  
 NEW YORK, NEW YORK 10170  
 (212) 986-8645  
 FAX (212) 986-8657





**CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**

**50 YORK STREET  
ROCHESTER, NEW YORK**

**Prepared for:** City of Rochester  
30 Church Street, Room 300B  
Rochester, New York 14614

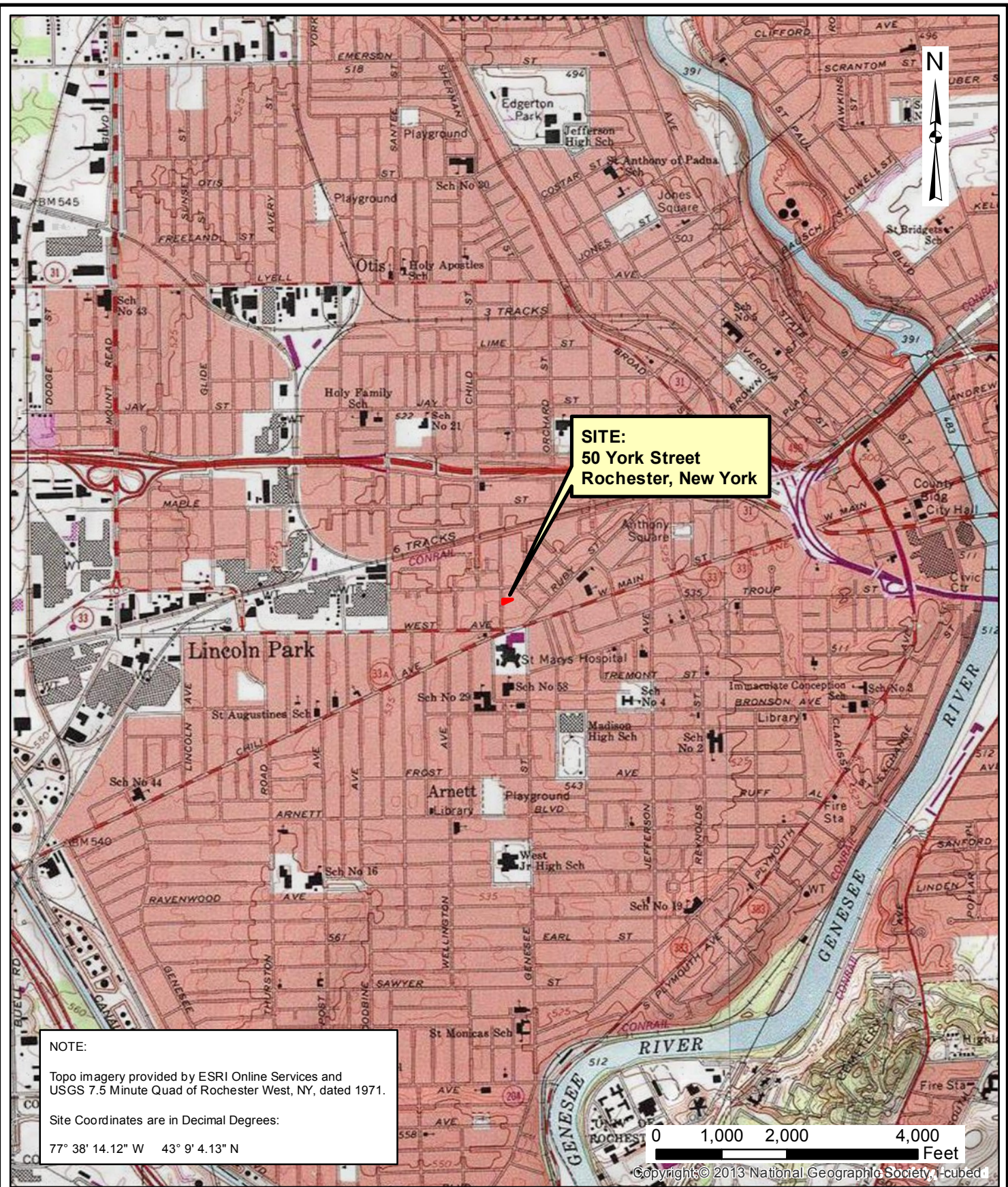
**Prepared by:** Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**Project No.:** 5408S-17

**Date:** January 11, 2018

## **FIGURES**





**SITE:**  
**50 York Street**  
**Rochester, New York**

**NOTE:**

Topo imagery provided by ESRI Online Services and USGS 7.5 Minute Quad of Rochester West, NY, dated 1971.

Site Coordinates are in Decimal Degrees:

77° 38' 14.12" W    43° 9' 4.13" N

0    1,000    2,000    4,000  
 Feet

Copyright © 2013 National Geographic Society, i-cubed

Document Path: E:\GIS Mapping\Rochly\5408S-17\Rochly\5408S-1 - Locus.mxd

Last Date Saved: 20 Nov 2017

Date	11-20-2017
Drawn By	CPS
Scale	AS NOTED

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title	50 YORK STREET ROCHESTER, NEW YORK
Drawing Title	CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT
Project Locus Map	

Project No.	5408S-17
FIGURE 1	





Date	11-20-2017
Drawn By	CPS
Scale	AS NOTED

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title	50 YORK STREET ROCHESTER, NEW YORK
	CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT
Drawing Title	Site Plan with Test Boring Locations

Project No.	5408S-17
	FIGURE 2

## **TABLES**

**Table 1**  
**50 York Street**  
**Rochester, New York**

**VOCs Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (7)			TB-2 (7)			TB-3 (2)			TB-4 (2)		
				10/13/2017			10/13/2017			10/13/2017			10/13/2017		
				8:52			9:26			9:51			10:15		
Naphthalene	12	100	500	U			U			0.178	D		U		

**Notes:**

VOC = Volatile Organic Compound

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

U = Analyte included in the analysis, but not detected at or above the method detection limit

D = Data reported from a dilution

**Table 2**  
**50 York Street**  
**Rochester, New York**

**SVOCs Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (3)			TB-2 (2)			TB-3 (2)			TB-4 (2)		
				10/13/2017			10/13/2017			10/13/2017			10/13/2017		
				8:50			9:24			9:51			10:15		
Anthracene	100	100	500	U			U			U			0.0886		
Benzo(a)anthracene	1	1	5.6	0.0625	J		U			0.106			0.270		
Benzo(a)pyrene	1	1	1	0.0752	J		0.228	JD		0.104			0.262		
Benzo(b)fluoranthene	1	1	5.6	0.0705	J		0.232	JD		0.0853			0.271		
Benzo(g,h,i)perylene	100	100	500	0.0737	J		U			0.0638	J		0.167		
Benzo(k)fluoranthene	0.8	1	3.9	0.0888			0.165	JD		0.0891			0.176		
Bis(2-ethylhexyl)phthalate	NS	NS	NS	0.0944	J		U			U			U		
Butyl benzyl phthalate	NS	NS	NS	3.72			U			U			U		
Chrysene	1	3.9	56	0.076	J		0.230	JD		0.103			0.251		
Di-n-butyl phthalate	NS	NS	NS	0.262	J		U			U			U		
Dibenzo(a,h)anthracene	0.33	0.33	0.56	U			U			U			0.0397	J	
Dibenzofuran	7	59	350	U			U			U			0.0352	J	
Fluoranthene	100	100	500	0.0916			0.413	JD		0.231			0.576		
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	0.0593	J		0.161	JD		0.0642	J		0.178		
Phenanthrene	100	100	500	0.0382	J		0.248	JD		0.172			0.414		
Pyrene	100	100	500	0.0784	J		0.351	JD		0.189			0.447		
TICS	NS	NS	NS	0.870			U			U			0.520		
Total SVOCs & TICs	NS	NS	NS	5.6606			2.028			1.2074			3.6955		

**Notes:**

SVOC = Semi-Volatile Organic Compound

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

TICs = Tentatively Identified Compoujnds

U = Analyte included in the analysis, but not detected at or above the method detection limit

J = Detected above the method detection limit but below the reporting limit; therefore, result is an estimated concentration

D = Data reported from a dilution

NS = No Standard Available



**Table 3**  
**50 York Street**  
**Rochester, New York**

**Metals Detected in Soil Samples**

Constituent	Unrestricted Use SCO <sup>(1)</sup>	Restricted Residential Use SCO <sup>(1)</sup>	Commercial Use SCO <sup>(1)</sup>	TB-1 (3)			TB-2 (2)			TB-3 (2)			TB-4 (2)		
				10/13/2017			10/13/2017			10/13/2017			10/13/2017		
				8:50			9:24			9:51			10:15		
Arsenic	13	16	16	5.17			9.75			4.66			3.20		
Barium	350	400	400	56.2			135			36.5			95.0		
Cadmium	2.5	4.3	9.3	0.359	J		0.344	J		0.0767	J		0.215	J	
Chromium	30	180	1500	11.8			12.7			7.64			8.02		
Lead	63	400	1000	<b>112</b>		<b>A</b>	<b>481</b>		<b>AB</b>	<b>67.0</b>		<b>A</b>	<b>726</b>		<b>AB</b>
Selenium	3.9	180	1500	0.533	J		1.20	J		U			0.391	J	
Silver	2	180	1500	U			0.396	J		U			U		
Mercury	0.18	0.81	2.8	<b>0.214</b>		<b>A</b>	<b>2.10</b>	D	<b>AB</b>	<b>2.29</b>	D	<b>AB</b>	0.0373		

**Notes:**

<sup>(1)</sup> Soil Cleanup Objectives (SCOs) referenced in 6 NYCRR Part 375 dated December 14, 2006

Results and SCOs are presented in milligrams per kilogram (mg/kg) or parts per million (ppm)

U = Analyte included in the analysis, but not detected at or above the method detection limit

J = Detected above the method detection limit but below the reporting limit; therefore, result is an estimated concentration

D = Data reported from a dilution

**A** = Concentration exceeds Unrestricted Use SCO

**B** = Concentration exceeds Restricted Residential Use SCO

**APPENDIX A**

**GPRS Inc. Report**



**GROUND  
PENETRATING  
RADAR  
SYSTEMS, INC.**

Monday, October 02, 2017

**Day Environmental, Inc.**  
**Attn: Jeff Danzinger**  
**Site: 50 York Street, Rochester, NY**

**Re: GPR Investigation for Underground Utilities and UST's**

We appreciate the opportunity to provide this report for our work completed on 9/20/17.

#### **PURPOSE**

The purpose of this project was to search for underground anomalies, including utilities, UST related items, and foundations, within an approximate 70'x20' area at the address listed above. This area has been clearly distinguished in the following site sketch of the findings.

#### **EQUIPMENT**

- **Ground Penetrating Radar (GPR), Manufacturer: GSSI, Model: SIR-3000 processing unit with 400 MHz antenna.** GPR works by sending pulses of energy into a material and recording the strength and the time required for the return of the reflected signal. Reflections are produced when the energy pulses enter into a material with different electrical properties from the material it left. The strength of the reflection is determined by the contrast in signal speed between the two materials. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the conductivity of the materials. For more information, please visit: <http://www.geophysical.com/Documentation/Brochures/GSSI-UtilityScanBrochure.pdf>
- **RD7000 pipe locator, Manufacturer: Radiodetection.** The RD7000 can detect the electromagnetic fields from live power or radio frequency signals. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes, risers, or tracer wires. A tone is sent through the pipe or tracer wire at a specific frequency which can then be detected by the receiver. For more information, please visit: <http://www.spx.com/en/radiodetection/pd-rd7000/>

#### **PROCESS**

Our process began with using the RD7000 to locate pipes or utilities throughout the scan area. We first swept all areas with the receiver to detect live power or radio frequency signals followed by connecting to any visible risers or tracer wires that were in the area provided that there was an exposed metallic surface. Locations and depths were painted or flagged on the surface. Depths cannot always be provided depending on the location method and can be prone to error.

Initial GPR scans were then collected in order to evaluate the data and calibrate the equipment. Based on these findings, a survey strategy is formed, typically consisting of scanning the entire area in a grid with 3'-5' scan spacing in order to locate any potential utilities, UST's, etc. that were not found with RD. The GPR data is interpreted in real time and anomalies in the data are located and marked on the surface along with their depths using spray paint, pin flags, etc. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site.

## **LIMITATIONS**

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above ground features, and utilization of services such as Dig Alert/Underground Service Alert.

At this site, our penetration depths were limited to 3.5'-4' throughout the area. Also, as on all projects, we could not see anomalies closer than, and running parallel to any above ground obstructions (foundation edges sticking up above the rest of the ground surface).

## **FINDINGS:**

After scanning all areas we were able to detect the presence of one pipe, and another unknown anomaly in the area. The pipe we located was approximately 2' deep, and will be depicted on the site map at the end of this report. We located the path of this pipe, initially, by clamping directly onto the pipe and inducing a tone onto the line. We then used the RD7000 wand to trace the signal out. We also saw the anomaly associated with this pipe with the radar, which allowed us to determine the approximate depth of the pipe.

The unknown anomaly was approximately 3' deep, and was located very near the turn in the pipe located previously. The dimensions of the anomaly were approximately 2'x 2' in size. It is not believed to be a UST, but more likely just some sort of debris from a previous period. This anomaly has also been marked out on the attached site sketch.

The following page will further explain the findings.

---

## **CLOSING**

Ground Penetrating Radar Systems, Inc. has been in business for over 15 years, specializing in underground storage tank location, concrete scanning, utility locating, as well as shallow void detection throughout the US and Canada. I encourage you to visit our website ([www.gp-radar.com](http://www.gp-radar.com)) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this GPR Investigation.

Signed,



Jim Bell  
Project Manager- Upstate New York



Direct: 315-715-5137  
[jim.bell@gp-radar.com](mailto:jim.bell@gp-radar.com)  
[www.gp-radar.com](http://www.gp-radar.com)





Site Sketch:  
Findings

50 York Street, Rochester, NY



**APPENDIX B**

**Test Boring Logs**

Project #: 5408S-17  
 Project Address: 50 York Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-1**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 8.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at ~5.5' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Dark Brown, SILT, Topsoil with Vegetation (FILL)	
							0.0	...some Gravel and Sand	
2	NA	S-1	0-4	75	NA	0.0	0.0	...Brown, SILT, some Sand, moist to damp	
							0.1	...trace Ash	
3							0.1	Medium Brown, Silty CLAY, moist	
4							0.0	Medium Brown, fine SAND, moist	
5							0.0	...wet seam	
6	NA	S-2	4-8	70	NA	0.1	0.0	...trace Gravel and Clay	
							0.0		
7							0.0		
8	NA	S-3	8-8.5	100	NA	0.0	0.0	...wet	
9								Refusal @ 8.5' on inferred bedrock	
10									
11									
12									
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-1**

1563 LYLELL AVENUE  
 ROCHESTER, NEW YORK 14606  
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 FAX (585) 454-0825

420 LEXINGTON AVENUE, SUITE 300  
 NEW YORK, NEW YORK 10170  
 (212) 986-8645  
 FAX (212) 986-8657

Project #: 5408S-17  
 Project Address: 50 York Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-2**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 8.7 Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.1	Dark Brown, SILT, Topsoil with Vegetation (FILL)	
							0.1	Dark Brown, Silt with trace Sand, Ash, moist (FILL)	
2	NA	S-1	0-4	70	NA	0.1			
							0.1	Brown, Silty CLAY, some Sand, moist	
3							0.1		
							0.1	...Light Brown with Gray Mottling	
4							0.1		
							0.1	Light Brown, fine SAND	
5							0.1		
	NA	S-2	4-8	70	NA	0.1		...Some coarse Gravel	
6							0.1		
							0.1		
7							0.1		
	NA	S-3	8-8.7	0	NA	NA	NA		
8									
								Refusal @ 8.7' on inferred bedrock	
9									
10									
11									
12									
13									
14									
15									
16									

No recovery from 8.0' to 8.7'

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-2**

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 NEW YORK, NEW YORK 10170  
 (212) 986-8645  
 FAX (212) 986-8657



Project #: 5408S-17  
 Project Address: 50 York Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-3**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 7.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at ~6.5' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Black, Vegetation, Sand and Gravel, damp (FILL)	
							0.0	Dark Brown, Silty Clay, trace Sand, Coal (FILL)	
2	NA	S-1	0-4	75	NA	0.0	0.0		
							0.0	...medium brown	
3							0.0		
4							0.0	Medium Brown, Sandy SILT, trace Clay and Gravel	
5							0.0		
6	NA	S-2	4-7.3	50	NA	0.0	0.0		
							0.0	...Gravel content increasing, wet	
7							0.0		
8								Refusal @ 7.3' on inferred bedrock	
9									
10									
11									
12									
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-3**

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Project #: 5408S-17  
 Project Address: 50 York Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-4**

Ground Elevation: NA Datum: NA  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 6.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.2	Concrete	
							0.4	Dark Brown, Silty Sand (FILL)	
2	NA	S-1	0-4	70	NA	0.1			
							0.2	...medium brown, trace Gravel	
3							0.2		
4							0.0	Light Orange-Brown, Silty Sandy CLAY, trace Gravel, damp	
5	NA	S-2	4-6	50	NA	0.1			
6									
								Refusal @ 6.0' on inferred bedrock	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-4**

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**APPENDIX B**  
**GPRS Geophysical Report**



Job Date : 01-Feb-18

Customer Day Environmental, Inc.

Phone Number 585.454.0210

**Billing Address**

**City**

**State**

**Zip**

1563 Lyell Avenue

Rochester

NY

14606

**Job Details**

<b>Jobsite Location</b>	Bulls Head Sub-North BOA Area	<b>WA Number</b>	58440
<b>City</b>	Rochester	<b>Job Num</b>	
<b>State</b>	NY	<b>PO Num</b>	5464S-18/JD7995

Lead Technician BELL, JAMES

Phone 315-715-5137

Email jim.bell@gp-radar.com

Thank you for using Ground Penetrating Radar Systems on your project. We appreciate the opportunity to work with you. If you have questions regarding the results of this scanning, please contact the lead GPRS technician on this project.

**Equipment Used:**

The following equipment was used on this project:

- 400 MHz GPR antenna. Typically capable of detecting objects several feet deep. Maximum effective depth depends on site and soil conditions.
- At this site, the maximum effective depth of the GPR was 6.5'.
- RD 7000/8000 Radio Frequency detector. Detects electromagnetic fields. Used to actively trace metallic pipes and tracer wires, or passively detect electric, communications and other lines.
- Average penetration depth throughout all areas appeared to be approximately 4'-4.5'. Cannot see anomalies within 3' of obstructions (fences, walls, etc.)

**Work Performed**

Ground Penetrating Radar Systems performed the following work on this project:

Scanning the specified area to locate underground utilities and other significant anomalies. A tracer signal was sent along any accessible metallic utility or tracer wire, and the area was scanned with GPR to locate any additional targets. The locations of any detected utilities and anomalies were marked directly at the site with paint, flags, stakes, or other appropriate means, and results were reviewed with onsite personnel.

- Only line found is believed to be a water line at approximate 4'-4.5'. Marked on the surface with pink paint. Line found running southeast towards fire hydrant on 816 Brown Street property.

Scanning the designated area to attempt to locate evidence of underground storage tanks and/or UST removal excavations. The locations of any USTs, associated piping, or excavations detected were marked with paint, flags, or other appropriate means, and results were reviewed with onsite personnel.

- Searching portions of 3 properties for signs of present tanks, former tank graves, fill material, and tank related pipes.
- No underground storage tanks were detected at this site. The areas were scanned thoroughly, and no anomalies consistent with the presence of an underground storage tank could be found.
- None detected.



- No evidence of tanks, or tank related anomalies detected throughout the areas. No fill material was detected, but this may be due to the majority of the sites being made up of fill material, therefore not being different from native soil.

---

**TERMS & CONDITIONS**

<https://m.gp-radar.com/terms-conditions>

---

**SIGNATURE**

---

<b>Contact Name</b>	<b>Contact Phone</b>	<b>Contact Email</b>
<b>Heather McLennan</b>	<b>585.454.0210</b>	<b>hmclennan@daymail.net</b>

---

**APPENDIX C**

**Test Boring Logs, Test Pit Logs and  
Well Construction Diagrams**

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-01**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 8.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt, Stone Road base	
2	NA	S-1	0-4	90	NA	0.4	0.0	Tan, Silt and Gravel (FILL)	
3							0.0		
4							0.0	Brownish/Black, Silt, Topsoil, Ash, Ciinder (FILL)	
5							0.0	Brown, SILT, some Sand, little Gravel, moist	
6	NA	S-2	4-8	80	NA	0.0	0.0	Tan, SAND, little/some Silt, little Gravel, wet @ ~6.5'	
7							0.0		
8								Refusal @ 8.0'	
9									
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-01**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-02**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 4.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt, Millings/Cinder, Sub-base (FILL)	
2	NA	S-1	0-4	80	NA	0.0	0.0	Firm, Tan/Gray, Sand, little Silt, Gravel, trace Organic (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0	Cinders, Ash, Silt and Gravel (FILL)	
6	NA	S-2	4-8	80	NA	0.0	0.0		
7							0.		
8							0.0		
9	NA	S-3	8-11	80	NA	0.2	0.0		
10							0.0	Loose, Gray, wet to saturated, SILT, little Sand, trace Organics	
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-02**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-03**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 13.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 3.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Black, Asphalt Millings (FILL)	
2	NA	S-1	0-4	90	NA	1.4	0.0	Firm, Gray/Black, moist/wet Sand, some Silt, little Gravel, little Ash and Glass (FILL)	
3							0.0	Loose/Firm, Gray/Brown, moist/wet Sand, some Silt, trace Gravel, trace Organics (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0	Loose/Firm, Orange/Black, wet Sand, little Gravel, little Cinder, little/some Ash (FILL)	
6	NA	S-2	4-8	80	NA	1.0	0.0		
7							0.0		
8							0.0	layered	
9							0.0		
10	NA	S-3	8-12	90	NA	0.0	0.0	...saturated @ 10.0'	
11							0.1	Compact/Dense, saturated Gray GRAVEL, little Sand, little Silt	
12	NA	S-4	12-13	30	NA	0.0	0.0		
13								Refusal @ 13.0'	
14									
15									
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-03**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-04**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 5.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings, Sub-base (FILL)	
2	NA	S-1	0-4	80	NA	0.4	0.0	Loose/Firm, Brown/Gray, moist Sand, little Silt, little Gravel, little Cinder and Ash (FILL)	
3							4.0		
4							0.0	Topsoil 3-4'	
5							0.6	Brown, SILT, some Sand, little Gravel, moist	
6	NA	S-2	4-8	80	NA	0.0	0.0	Loose/Firm, Gray/Brown, wet, SAND and SILT, little Gravel, trace Organics	
7							0.0		
8							0.0		
9	NA	S-3	8-11	80	NA	0.2	0.0		
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-04**

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 FAX (212) 986-8657

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-05**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 9.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 2.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
							0.0	fine Sand (FILL)	
2	NA	S-1	0-4	80	NA	0.0	0.0	buried Topsoil	
3							0.0	Firm, Tan/Brown, wet, SAND, little/some Silt, little Gravel	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	100	NA	0.0	0.0		
7							0.0		
8							0.0		
9	NA	S-3	8-9.5	50	NA	0.0	0.0		
10								Refusal @ 9.5'	
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-05**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-06**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 7.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	80	NA	0.1	0.0	Sand (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5								Topsoil	
6	NA	S-2	4-7.5	60	NA	0.0		Compact Brown, wet to saturated SAND, some Silt, some Gravel	
7									
8								Refusal @ 7.5'	
9									
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-06**

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 FAX (212) 986-8657



Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-07**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 5.8' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 4.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass, Topsoil	
2	NA	S-1	0-4	80	NA	1.2	0.0	Firm, Brown, moist Sand, some Silt, little Gravel, trace Ash, trace Organics (FILL)	
3							0.0	Firm, Brown, moist/wet SAND, little Silt and Gravel (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist (FILL)	
5	NA	S-2	4-5.8		NA	0.8			
6								Refusal @ 5.8'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-07**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-08**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 5.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass, Topsoil	
2	NA	S-1	0-4	90	NA	0.3	0.0	Firm, Brown, moist Sand, some Gravel, some Silt, trace Ash, trace Organics, trace brick (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-5	50	NA	0.2	0.0		
6								Refusal @ 5.0'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-08**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-09**

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 6.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	80	NA	0.0	0.0	Firm, Brown, moist Sand, some Silt, little Gravel (FILL)	
3							0.0	Firm, Gray, moist Sand, little Silt, little Gravel, little Concrete, trace Insulation (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-6.3	40	NA	0.0	0.0		
7								Refusal @ 6.3'	
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-09**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-10**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 15.8' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 12.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	NA	NA	0.0	0.0	Firm, Brown/Gray, moist Sand, Silt and Gravel, little Ash and Cinder, trace Brick (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	NA	NA	0.2	0.0		
7							0.0		
8							0.0		
9							0.0		
10	NA	S-3	8-12	NA	NA	0.0	0.0		
11							0.0		
12							0.0	...wet/saturated	
13							0.0		
14	NA	S-4	12-15.8	NA	NA	0.2	0.0		
15							0.0		
16							0.0	...Rock fragments	
								Refusal @ 15.8'	

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-10**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-11**

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 6.2' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	Refusal on apparent concrete.
2	NA	S-1	0-4	80	NA	8.6	0.0	Firm, Brown, moist Sand, Silt and Gravel, trace Organics, Cinder, Wood and Concrete (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-6.2	30	NA	5.4	0.0		
6							0.0	...burnt wood	
7								Refusal @ 6.2'	
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-11**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-12**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 8.2' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	Refusal on apparent concrete.
							0.0	Firm, Brown, moist Sand and Gravel, little Silt (FILL)	
2	NA	S-1	0-4	40	NA	6.2	0.0		
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8.2	30	NA	1.3	0.0	...Rock fragments (possible cobbles)	
7							0.0		
8							0.0		
9								Refusal @ 8.2'	
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-12**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-13**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 8.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 3.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	70	NA	1.2	0.0	Firm, Brown, moist/wet SILT and SAND, little Gravel	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	90	NA	5.8	0.0		
7							0.0		
8	NA	S-3	8-8.3	NA	NA	0.7	0.0		
9								Refusal @ 8.3'	
10									
11									
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-13**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-14**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 9.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Brown, Silt, some Sand, little Gravel, trace Organics (FILL)	
2	NA	S-1	0-4	90	NA	7.0	0.0		
3							0.0	Gray/Black, Ash and Cinders (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.8	...Gravel, trace Bricks	
6	NA	S-2	4-8	70	NA	36.6	1.1		
7							41.0	...Black stain, petroleum odor @ 6.5', Silt and Gravel, wet	
8							4.4		
9	NA	S-3	8-9.5	20	NA	6.2	22.0	...saturated	
10							11.6		
11								Refusal @ 9.5'	
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-14**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-15**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 8.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	80	NA	2.0	0.0	Brown/Black, Silt, some Gravel, little Ash and Cinders, moist/wet (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	50	NA	2.6	0.0		
7							0.0	Fine SAND, little Gravel, wet	
8	NA	S-3	8-8.3	NA	NA	0.1	0.0	Saturated	
9								Refusal @ 8.3'	
10									
11									
12									
13									
14									
15									
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-15**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-16**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 7.8' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	50	NA	4.4	0.0	Brown, moist Silt, little Sand, little Gravel (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-7.8	NA	NA	2.3	0.0		
7							0.0		
8									
9								Refusal @ 7.8'	
10									
11									
12									
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-16**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-17**

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 5.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Brown, moist Silt, little Gravel, trace Bricks and Wood (FILL)	
2	NA	S-1	0-4	80	NA	3.7	0.0		
3							0.0		
4							0.0		
5	NA	S-2	4-5.5	NA	NA	3.7	0.0	Brown, SILT, some Sand, little Gravel, moist	
6								Refusal @ 5.5'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-17**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-18**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 8.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	80	NA	0.3	0.0	Brown/Gray, Silt, little Gravel, tract Bricks (FILL)	
3							0.0		
4							0.0	Gray/Black, Silt, trace Brick and Cinders, moist (FILL)	
5							0.0	Brown, SILT, some Sand, little Gravel, moist	
6	NA	S-2	4-8	50	NA	1.1	0.0	Brown, SILT and CLAY, trace Gravel, moist	
7							0.0		
8							0.0		
9	NA	S-3	8-11	20	NA	3.4	0.0	Brown, medium to coarse SAND, some Gravel, saturated	
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-18**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-19**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 5.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Concrete Sidewalk	
							0.0	Gray/Brown, Silt, trace Organics (FILL)	
2	NA	S-1	0-4	70	NA	2.2	0.0	Brown, fine Sand (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	90	NA	2.6	0.0	SAND, little Silt, little Gravel, moist to wet	
7							0.1		
8							0.1		
9	NA	S-3	8-11	40	NA	3.5	0.0		
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-19**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-20**

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 3.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	NA	S-1	0-2.3	80	NA	3.7	0.5	Asphalt and Road-base	
2								Brown/Gray, SILT and GRAVEL, dry, Rock fragments at bottom	
3								Refusal @ 3.0'	
4								Brown, SILT, some Sand, little Gravel, moist	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-20**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-21**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 5.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Concrete Sidewalk	
2	NA	S-1	0-4	50	NA	3.1	0.4	Gray/Black, SILT, little Gravel, Rock fragments	
3								Brown, SILT, little Gravel, moist	
4								Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-5	NA	NA	*	0.0		* Not enough sample for headspace
6								Refusal @ 5.0'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-21**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-22**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 9.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	NA	S-1	0-4	70	NA	NA	0.0	Brown, SAND, some Silt, trace Gravel	
3							0.0	...Fine SAND	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	70	NA	8.1	0.0		
7							0.0		
8							0.0		
9							0.0	Moist/Wet	
10	NA	S-3	8-12	90	NA	7.6	0.0		
11							0.0		
12									
13								Refusal @ 12.0'	
14									
15									
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-22**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-23**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 5.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass, Topsoil	
							0.0	4" Brick (FILL)	
2	NA	S-1	0-4	70	NA	2.1	0.0	Fine SAND, moist	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0	Moist/Wet	
6	NA	S-2	4-8	NA	NA	1.0	0.0		
7							0.0		
8							0.0	Saturated	
9	NA	S-3	8-11	NA	NA	1.6	0.0		
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-23**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-24**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 7.2' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	70	NA	2.4	0.0	Tan and Black Sand, Ash, Brick (FILL)	
3							0.0	Brown, SILT, little Sand, little Gravel, moist	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-7.2	30	NA	0.7	0.0		
6									
7									
8								Refusal @ 7.2'	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-24**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Split Spoon

**Test Boring TB-25**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 3/1/2018 Date Ended: 3/1/2018  
 Borehole Depth: 11.7' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: 9.2 and rising (3/1/18, 9:15 AM)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	10	S-1	0-2	60	34	0.0	0.0	Tan/Brown, Silt, little Sand, little Gravel, trace Brick, moist (FILL)	
	20						0.0		
2	14	S-2	2-4	5	8	0.0	0.0	Brown, Silt, little Clay, trace Sand, trace Ash, burnt Wood, Porcelain, moist (FILL)	
	11						0.0		
3	5	S-3	4-6	30	4	0.0	0.0	Gray, SILT, little Gravel, moist/wet	
	4						0.0		
4	4	S-4	6-8	30	5	0.0	0.0	Tan/Gray, GRAVEL and SILT, little Sand, saturated	
	4						0.0		
5	1	S-5	8-10	20	9	0.0	0.0	Auger Refusal @ 11.7'	
	2						0.0		
6	2	S-6	10-11.4	NA	NA	0.0	0.0		
	2						0.0		
7	1	S-6	10-11.4	NA	NA	0.0	0.0		
	1						0.0		
8	4	S-6	10-11.4	NA	NA	0.0	0.0		
	3						0.0		
9	1	S-6	10-11.4	NA	NA	0.0	0.0		
	4						0.0		
10	5	S-6	10-11.4	NA	NA	0.0	0.0		
	17						0.0		
11	4	S-6	10-11.4	NA	NA	0.0	0.0		
	50/4						0.0		
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-25**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Split Spoon

**Test Boring TB-26**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 3/1/2018 Date Ended: 3/1/2018  
 Borehole Depth: 10.4' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: 9.6 at boring completion

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	14	S-1	0-2	30	23	0.0	0.0	Asphalt stone base	
	8							Tan, Sand (FILL)	
2	9	S-2	2-4	40	5	0.0	0.0	Tan/Brown, Silt and Sand, trace Gravel, trace Cinder (FILL)	
	3								
3	2	S-3	4-6	40	3	0.0	0.0	Gray/Black, Silt, moist (FILL)	
	2								
4	2	S-4	6-8	40	4	0.0	0.0	Tan, SILT, some Sand, trace Gravel, moist	
	2								
5	1	S-5	8-10	30	6	0.0	0.0	...moist/wet	
	2								
6	2	S-6	10-10.4	10	NA	0.0	0.0	...Gray GRAVEL and SILT, saturated	
	1								
7	1							Auger refusal @ 10.4'	
8	1								
9	5								
10	5								
11									
12									
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-26**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Split Spoon

**Test Boring TB-27**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 3/1/2018 Date Ended: 3/1/2018  
 Borehole Depth: 8.8' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: None

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	6	S-1	0-2	40	8	0.0	0.0	Asphalt and stone base	
							0.0	Tan, Sand (FILL)	
							0.0	Tan/Brown, Silt, little Sand, trace Gravel, moist (FILL)	
2	2	S-2	2-4	60	10	0.0	0.0		
	4						0.0		
	6						0.0		
3	9	S-3	4-6	70	24	0.0	0.0		
	6						0.0		
	10						0.0		
4	14	S-4	6-8	70	31	0.0	0.0		
	15						0.0		
	11						0.0		
5	14	S-5	8-8.8	30	NA	0.0	0.0		
	17						0.0		
	18						0.0		
6	50/3						0.0		
9								Auger refusal @ 8.8'	
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-27**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-01**

Ground Elevation: 536.39 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/20/2018 Date Ended: 2/20/2018  
 Borehole Depth: 11.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 5.14' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	8	S-1	0-2	20	17	6.7	0.0	Asphalt	Poor recovery  *PID headspace readings are suspect - no filter on PID, very similar readings, no other field evidence
	9						0.0	Loose, Brown, Silt, little Gravel, trace Brick, moist (FILL)	
2	6	S-2	2-4	20	3	6.0	0.0	...Ash (FILL)	
	3						0.0		
3	1	S-3	4-6	30	2	4.4	0.0	Loose, Brown/Gray, Silt, little Sand, little Clay, trace Wood, moist/wet (FILL)	
	1						0.0		
4	1	S-4	6-8	50	3	5.4	0.0	...rock fragments, wet/saturated	
	1						0.0		
5	1	S-5	8-10	10	16	6.4	0.0		
	0						0.0		
6	1	S-6	10-10.7	10	NA	6.8	0.0		
	1						0.0		
7	2	50/2					0.0		
	3						0.0		
8	4						0.0		
	11						0.0		
9	5						0.0		
	11						0.0		
10	10						0.0		
11								Auger refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-01**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, NX-Core

**Test Boring MW-02**

Ground Elevation: 539.25 Datum: Rochester City Datum Page 1 of 2  
 Date Started: 2/21/2018 Date Ended: 2/21/2018  
 Borehole Depth: 19.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 8.28' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	3	S-1	0-2	30	11	0.0	0.0	Grass, 3" Topsoil	
	6						0.0	Cinders, Asphalt, trace Brick (FILL)	
	5						0.0	Loose, Brown, Silt, little Sand, trace Brick, moist (FILL)	
2	3	S-2	2-4	50	5	0.0	0.0		
	3						0.0	...Loose, Gray/Yellow/Black, Ash, moist (FILL)	
3	2	S-3	4-6	30	2	0.0	0.0		
	3						0.0		
	2						0.0		
4	1	S-4	6-8	40	1	0.0	0.0		
	1						0.0		
	1						0.0		
5	1	S-5	8-10	20	1	0.0	0.0		
	0						0.0		
	1						0.0		
6	1	S-6	10-12	20	8	0.0	0.0		
	0						0.0		
	6						0.0		
7	1	S-7	12-13.2	20	NA	0.0	0.0		
	0						0.0		
	6						0.0		
8	1	C-1	13.5-15.5	46	38	NA	0.0		
	0						0.0		
	6						0.0		
9	1	NA					0.0		
	0						0.0		
	6						0.0		
10	1						0.0		
	0						0.0		
	6						0.0		
11	1						0.0		
	0						0.0		
	6						0.0		
12	1						0.0		
	0						0.0		
	6						0.0		
13	1						0.0		
	0						0.0		
	6						0.0		
14	1						0.0		
	0						0.0		
	6						0.0		
15	1						0.0		
	0						0.0		
	6						0.0		
16	1						0.0		
	0						0.0		
	6						0.0		

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-02**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, NX-Core

Ground Elevation: 539.25 Datum: Rochester City Datum  
 Date Started: 2/21/2018 Date Ended: 2/21/2018  
 Borehole Depth: 19.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 8.28 (3/9/18)

**Test Boring MW-02**

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	NA	C-2	15.5-19.0	98	85	NA	NA		
18									
19								Bottom of Hole @ 19.0'	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

- Notes:**
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-02**

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420 LEXINGTON AVENUE, SUITE 300  
 NEW YORK, NEW YORK 10170  
 (212) 986-8645  
 FAX (212) 986-8657

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-03**

Ground Elevation: 543.70 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/22/2018 Date Ended: 2/22/2018  
 Borehole Depth: 14.4' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 7.35' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2	S-1	0-2	30	9	NA	0.0	Loose, Brown/Gray, medium Sand, little Gravel, moist (FILL)	
	4						0.0		
	5						0.0		
2	10								
3	5	S-2	2-4	50	9	NA	0.0		
	4						0.0		
4	4								
5	2	S-3	4-5.4	30	10	NA	0.0	...Dolostone? Rock fragment in tip of spoon	Auger refusal @ 5.4'
	4						0.0		
	6						0.0		
6	20								
7								Very broken up rock core. A few 3" pieces of massive Dolomite, followed by a few small 1-2" concrete pieces.	
8	NA	C-1	5.4-9.4	37	NA	NA	NA	Augered through apparent FILL with possible concrete floor slab.	
9									
10								Massive Gray Dolomite Limestone pits and Vugs in top one foot, horizontal and low angle fractures	
11									
12	NA	C-2	9.4-14.4	100	86	NA	NA		
13									
14									
15								Bottom of Hole @ 14.4'	
16									

- Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-03**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-04**

Ground Elevation: 543.51 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/23/2018 Date Ended: 2/23/2018  
 Borehole Depth: 8.9' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 5.90 (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2	S-1	0-2	20	18	NA	0.0	Grass	Auger refusal @ 3.9'
	6						0.0	Brown, Silt and Sand, trace Organics, moist (FILL)	
	12						0.0		
2	14								
	10	S-2	2-3.2	40	NA	NA	0.0	Gray/Brown, SILT and SAND, little Gravel, Dolomite Rock fragments in end of spoon,	
3	18						0.0	moist	
	50/2						0.0		
4									
5								Massive Gray Dolomite Limestone, numerous horizontal and low angle fractures	
6	NA	C-1	3.9-8.9	100	45	NA	NA	...pits and vugs with secondary calcite mineralization	
7									
8									
9									
10								Bottom of Hole @ 8.9'	
11									
12									
13									
14									
15									
16									

- Notes:**
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  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-04**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-05**

Ground Elevation: 544.32 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/26/2018 Date Ended: 2/26/2018  
 Borehole Depth: 12.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 6.97 (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	5	S-1	0-2	50	19	0.0	0.0	Concrete Sidewalk	Auger refusal @ 6.4'
	15						0.0	Compact, Brown, Sand, little Gravel, trace Brick, moist (FILL)	
2	14	S-2	2-4	40	28	0.0	0.0		
	6						0.0		
3	12	S-3	4-6	20	52	NA	0.0	...some Bricks (FILL)	
	16						0.0		
4	15	S-4	6-6.4	10	NA	NA	NA		
	29						NA		
5	23	C-1	6.4-12.0	95	82	NA	NA	Massive Gray Dolomite Limestone	
	15						NA		
6	5	C-1	6.4-12.0	95	82	NA	NA	...Calcite-filled vugs from 10.0' to 12.0'	
	50/2						NA		
7									
8									
9									
10									
11									
12								Bottom of Hole @ 12.0'	
13									
14									
15									
16									

- Notes:**
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  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-05**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-06**

Ground Elevation: 544.92 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/27/2018 Date Ended: 2/27/2018  
 Borehole Depth: 14.4 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 8.15' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								No Samples - see log for MW-06A	
2									
3									
4									
5									
6									
7									
8									
9									
10							Medium Hard, massive Gray Dolomitic Limestone with horizontal/low angle fractures with mud partings. Calcite filled vugs in top 1.5'	Auger refusal @ 9.4'	
11									
12	NA	C-1	9.4-14.4	95	72	NA	NA		
13									
14									
15							Bottom of Hole @ 14.4'		
16									

- Notes:**
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  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-06**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon

**Test Boring MW-06A**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/26/2018 Date Ended: 2/26/2018  
 Borehole Depth: 9.1 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): wet soil @ 8.0' (2/26/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2						0.0	Grass and Topsoil	
	15	S-1	0-2	40	28	0.0	0.0	Tan, Sand, some Rock fragments (FILL)	
	13						0.0		
	6								
2	6						0.0	...trace Bricks (FILL)	
3	50/2	S-2	2-2.7	20	NA	0.0	0.0		
4	1						0.0	...Bricks, Wood, Porcelain (FILL)	
5	4	S-3	4-6	20	8	0.0	0.0		
	4								
	3								
6	23						0.0	...little Concrete (FILL)	
7	9	S-4	6-8	20	23	0.0	0.0		
	14							...Metal Wire (FILL)	
	10								
8	16						0.0	Tan, SAND and GRAVEL, little Silt, wet	
9	24	S-5	8-9.1	20	NA	0.0	0.0		
	50/1							Tan, fine SAND, wet	
10								Refusal @ 9.1'	
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-06A**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-07**

Ground Elevation: 537.00 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/27/2018 Date Ended: 2/27/2018  
 Borehole Depth: 11.1 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 6.53' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	5	S-1	0-2	5	8	0.0	0.0	Concrete Sidewalk, crushed Stone Base	Auger refusal @ 5.6'
	3							Tan, Sand, little Gravel, trace Silt, moist (FILL)	
2	4								
3	5	S-2	2-4	10	15	0.0	0.0		
	6								
4	9								
	11								
5	5	S-3	4-5.6	60	19	NA	NA	Tan/Brown, Firm, SAND, little rounded Gravel, moist/wet	
	10								
6	9								
	50/0								
7								Medium/Hard, massive Gray Dolomitic Limestone with horizontal/low angle fractures with mud partings and shale partings	
8									
9	NA	C-1	5.6-11.1	94	62	NA	NA		
10									
11									
12								Bottom of Hole @ 11.1'	
13									
14									
15									
16									

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 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-07**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-08**

Ground Elevation: 536.66 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/28/2018 Date Ended: 2/28/2018  
 Borehole Depth: 15.7 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 6.18' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	4	S-1	0-2	20	10	0.0	0.0	Asphalt and Base, Rock fragments	Swampy odor? Oily appearance, weathered petroleum odor?  Auger refusal @ 10.5'
5	Mixed Tan/Gray/Black, Sand, Silt, Ash, trace Brick, moist (FILL)								
2	4	S-2	2-4	50	11	0.0	0.0		
3	7								
4	4	S-3	4-6	50	2	0.0	0.0	Loose, Gray/Black/Tan, Sand, little Silt, little Ash (FILL)	
5	1								
6	1							8.7	
7	1	S-4	6-8	10	7	83.8	9.6	Loose Black, SILT, little Gravel, wet	
8	6								
9	3	S-5	8-10	40	3	2.4	0.3	Loose, Brown/Gray, SILT, little Sand, wet	
10	1								
10	2	S-6	10-10.5	NA	NA	NA	NA	...saturated	
11	50/2								
11								Massive Gray Dolomitic Limestone with horizontal and low angle fractures	
12									
13	NA	C-1	10.5-15.7	100	71	NA	NA		
14									
15									
16								Bottom of Hole @ 15.7'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
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 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-08**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 9.8'  
 Depth to Water: Water Seepage @ 7.0'

**TEST PIT TP-01**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0	S-1		6" Asphalt	Concrete slab 2-3" thick
2-				Concrete slab, Crushed Stone, Ash and Brick, Rubble - Bricks and Rocks (FILL)	
3-				over 50% Debris/Rubble, Sand and Gravel	
4-					
5-					
6-	0.0	S-2	1.0	Firm, Tan/Brown, moist SAND, some Silt, little Gravel	...trace seepage @ 7.0' ...compact below 7.0'
7-					
8-					
9-					
10-				Terminated @ 9.8'	
11-					
12-					
13-					
14-					
15-					
16-					

**Notes:**  
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 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-01**



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 10.0'  
 Depth to Water: Water Seepage @ 9.0'

**TEST PIT TP-02**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes	
1-	0.0	S-1		5" Asphalt, 3" Sub-base	1-	
2-				Loose/Firm, Tan/Brown/Gray, Silt and Sand, little Gravel, trace Ash, Asphalt, Bricks,		2-
3-				Concrete Blocks, moist (FILL)		3-
4-						4-
5-	0.0			Loose, Black, Ash and Cinder, moist (FILL)	5-	
6-				6-		
7-				7-		
8-				8-		
9-				9-		
10-				10-		
11-	0.0	S-2		Native Soil, loose/firm, Gray/Brown, SILT and SAND, trace Gravel, trace Organics, wet	11-	
12-				12-		
13-				13-		
14-				14-		
15-				15-		
16-				16-		
				Terminated @ 10.0'		
					Active water seeps @ 9.0'	

**Notes:**  
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 4) NA = Not Available or Not Applicable

**TEST PIT TP-02**

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 10.0'  
 Depth to Water: Not Encountered

**TEST PIT TP-03**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0	S-1		Grass Loose, Brown, Silt and Sand, some Gravel, trace Asphalt, Brick, Wood, Plastic, Traffic Cone, Metal, Organics, moist (FILL)	1- Reworked Soil
2-					2-
3-					3- Some sloughing of sidewalls
4-					4-
5-	0.0				5-
6-					6- Concrete chunks ~2' x 2' Concrete
7-	0.0				7-
8-					8-
9-	0.0				9-
10-	0.0				10- Scraping on hard smooth surface
11-				Refusal @ 10.0'	11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-03**

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 7.0'  
 Depth to Water: Not Encountered

TEST PIT TP-04

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Loose, Brown, Silt and Sand, some Gravel, trace Asphalt, trace Brick, Wood, Organics,	1-
2-				Rocks and Concrete, moist (FILL)	2-
3-					3- Tree branch
4-	0.0				4-
5-	0.0				5- Bricks
6-		S-1			6-
7-	0.0				7- Undulating surface
8-				Refusal @ 7.0'	8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-04

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 6.2'  
 Depth to Water: Not Encountered

**TEST PIT TP-05**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Grass	
2-				Firm, Brown, Sand, little Silt, little Gravel, few Cobbles, moist (FILL)	
3-	0.0				
4-					
5-					
6-		S-1			Smooth hard surface
7-				Refusal @ 6.2'	
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

**Notes:**  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-05**

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 9.5'  
 Depth to Water: Wet Soil @ 6.5'

TEST PIT TP-06

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Loose, Brown, Silt, some Sand, some Gravel, trace Bricks, Cobbles, Wood, Plastic, moist (FILL)	1- Whole Bricks, Rubble
2-				...compact	2-
3-	0.0				3-
4-					4-
5-		S-1		Tan/Brown, compact Silt, some Sand, little Gravel, trace Brick, Organics, Coal or Wood,	5-
6-	0.0			moist (FILL)	6-
7-				Firm, Brown/Gray, saturated SAND, some Silt, little Gravel, trace Organics, moist to wet	7-
8-					8- Water @ 8.5'
9-		S-2			9-
10-				Bottom of Hole @ 9.5'	10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-06



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 6.3'  
 Depth to Water: Not Encountered

TEST PIT TP-07

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Firm, Brown/Gray, Silt, Sand and Gravel, moist (FILL) ...30-40% Brick (FILL)	1- Whole Bricks, Cobbles
2-	0.0				2-
3-					3-
4-	0.0	S-1	1.7	Firm, Brown/Gray, Silt, Sand, Gravel, trace Brick, Wood, Metal, Plastic, Organic, moist (FILL)	4-
5-					5-
6-	0.0				6- Hard Surface, irregular
7-				Refusal @ 6.3'	7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-07

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 6.8'  
 Depth to Water: Not Encountered

**TEST PIT TP-08**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.1	S-1	2.5	Firm/Compact, Brown/Gray, Silt and Sand and Gravel, trace Brick, Wood, Plastic, Asphalt, Organics, Concrete Slab, few Cobbles, moist (FILL)	1-  2-  3- Sidewalk Slough  4-  5-  6- Brick Floor?  Somewhat irregular
2-				Few Slabs (less than 2' x 2')	
3-					
4-					
5-					
6-				...Brick	
7-				Refusal @ 6.8'	7-  8-  9-  10-  11-  12-  13-  14-  15-  16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-08**



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 8.3'  
 Depth to Water: Not Encountered

TEST PIT TP-09

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Firm/Compact, Tan/Brown, Silt, Sand, Gravel, trace Organics, Asphalt, Brick, Concrete, moist (FILL)	1- Rubble - Bricks, Concrete Chunks, Cobbles
2-					2-
3-	0.0				3-
4-				70% Rubble, Brick, Concrete, Rock (less than 2' size); 30% Sand, Silt, Gravel, trace/little Ash (FILL)	4- Heavy Rubble, Bricks and Concrete Block
5-					5-
6-					6-
7-		S-1			7-
8-					8- Smooth bottom, possible floor slab
9-				Refusal @ 8.3'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-09

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 5.3'  
 Depth to Water: Not Encountered

**TEST PIT TP-10**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Loose, Gray, 60-70% Rubble, Concrete, Brick, Concrete Slabs (less than 2' size), Cast Iron, some Sand, Gravel, Silt, moist (FILL)	1- Rubble 1-2' Rock, Concrete, Bricks, Blocks Large Metal Pieces 2-3' long
2-					2-
3-	0.0				3-
4-					4-
5-	0.0	S-1	2.0		5- Smooth hard surface
6-				Refusal @ 5.3'	6-
7-					7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

**Notes:**  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-10**



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 5.0'  
 Depth to Water: Not Encountered

TEST PIT TP-11

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Compact, Brown, Silt, Sand and Gravel, moist (FILL)	
2-				90% Brick, Black Rubble (FILL)	Foundation wall (block), 1' thick concrete to east
3-					
4-					
5-					Smooth hard surface (floor slab?)
6-				Refusal @ 5.0'	
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-11



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 5.3'  
 Depth to Water: Not Encountered

**TEST PIT TP-12**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Compact, Brown/Gray, Silt, Sand, Gravel, moist (FILL)	
2-				Compact, Brown, Silt and Gravel, 50% Rubble, Concrete Block, Brick, Rock, moist (FILL)	
3-					
4-					
5-	1.7	S-1	2.6		
6-				Bottom of Hole @ 5.3'	Smooth hard surface (floor slab?)
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-12**

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 8.5'  
 Depth to Water: Not Encountered

**TEST PIT TP-13**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0	S-1		Asphalt/Stone	
2-	0.0			Yellow/White/Gray Ash (FILL)	
3-	0.0			Tan/Brown, Compact SILT, little Sand, little Gravel, moist	
4-					4-
5-	0.0				5-
6-				Tan/Brown, SAND, some Silt, trace Gravel, moist	6-
7-	0.0	S-2	1.7		7-
8-					8-
9-				Terminated @ 8.5'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

**Notes:**  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-13**

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 8.8'  
 Depth to Water: Water Seep @ 6.5'

TEST PIT TP-14

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Asphalt/Stone Loose, Brown, Sand and Silt, ~40% field Stone debris and Concrete up to 1', moist (FILL)	1-
2-	0.0				2-
3-					3-
4-	0.1	S-1		Gray/Black, Silt, some Clay, trace Brick, moist (FILL)	4-
5-	0.0			Loose, Brown, Sand and Silt, ~50% Rock debris, Ash, moist (FILL)	5-
6-				Firm, Brown/Gray, SAND, some Silt, little Bravel, trace Organics, moist/wet	6-
7-					7- Active water seep @ ~6.5', slight sheen?
8-	0.0	S-2	1.4		8- Hard irregular surface
9-				Refusal @ 8.8'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-14

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 3.5'  
 Depth to Water: Not Encountered

**TEST PIT TP-15**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Asphalt and Stone Firm, Tan/Brown, Sand, little Silt, little Gravel, 40% Rock rubble, moist (FILL)	1-
2-					2-
3-	0.0	S-1	2.6		3- Smooth hard surface
4-				Refusal @ 3.5'	4-
5-					5-
6-					6-
7-					7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

**Notes:**  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-15**

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 7.3'  
 Depth to Water: Not Encountered

**TEST PIT TP-16**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Grass Firm, Tan/Brown, SILT, little Sand, trace Gravel, moist	Possible Native Material
2-					
3-	0.0				
4-					
5-	0.0	S-1	1.4	...trace Clay	
6-					
7-					
8-				Terminated @ 7.3'	
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

**Notes:**  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-16**



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 9.4'  
 Depth to Water: Not Encountered

TEST PIT TP-17

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Compact, Gray/Black, Silt, little Sand, little Rock, trace Gravel, trace Brick, moist (FILL)	1-
2-					2-
3-	0.0			Tan, fine SAND, little Silt, little Cobbless, moist/wet	3-
4-		S-1	1.2		4-
5-	0.0				5-
6-				Terminated @ 9.4'	6-
7-	0.0				7-
8-					8-
9-	0.0	S-2			9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-17



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 6.5'  
 Depth to Water: Not Encountered

TEST PIT TP-18

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	1.6			Grass, 8" Topsoil	1-
2-				Gray/Brown, moist Sand, Silt and Gravel, trace Bricks (FILL)	2-
3-					3-
4-				...30% Large Rocks and Concrete	4-
5-				Firm, Tan, fine SAND, little Silt, trace Gravel, moist	5-
6-					6-
7-				Terminated @ 6.5'	7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-18

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 8.8'  
 Depth to Water: Not Encountered

**TEST PIT TP-19**

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Brown, Sand and Gravel, moist (FILL)	1-
2-				...40% Rocks and Concrete, trace Brick and Wood (FILL)	2-
3-	0.0	S-1			3-
4-					4-
5-	0.0	S-2		Firm, Tan, SAND, little Silt, trace Gravel, trace Organics, moist	5-
6-					6-
7-	0.0				7-
8-	0.0				8-
9-				Terminated @ 8.8'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

**Notes:**  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

**TEST PIT TP-19**

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 10.0'  
 Depth to Water: Seep @ 9.0'

TEST PIT TP-20

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Grass	
2-				Firm, Red/Brown, moist Sand (FILL)	
3-				Firm, Gray/Black, moist Silt, little Clay (FILL)	
4-				Loose, Black/Gray, Cinders, Ash, burnt Wood, and Silt, moist (FILL)	
5-		S-1	0.9		
6-					
7-					
8-					
9-	1.5	S-2	1.3		Large water seep pumping into hole.
10-				Terminated @ 10.0'	
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-20

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 6.0'  
 Depth to Water: Not Encountered

TEST PIT TP-21

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Grass, 6" Topsoil	1- 2- 3- 4- 5- 6- Hard irregular surface.
2-				Firm, Tan, moist Silt, some Sand, little Bricks, Concrete, Metal (FILL)	
3-	0.0				
4-	0.0				
5-	0.0	S-1		Firm, Gray/Black, moist SILT, little Sand, trace Organics	
6-				Refusal @ 6.0'	
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-21



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 5.2'  
 Depth to Water: Not Encountered

TEST PIT TP-22

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Firm/Compact, Brown, moist Silt, some Sand, some Gravel and Cobbles, trace Brick and Concrete, large Rocks (FILL)	
2-					
3-					
4-	3.0 15.0 37.7			Silt, Bricks, burnt Wood, petroleum odor (FILL)	Petroleum odor Hard irregular surface
5-				Refusal @ 5.2'	
6-					
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-22

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 3.5'  
 Depth to Water: Not Encountered

TEST PIT TP-23

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Firm, Brown, moist Silt, little Sand, trace Clay, trace Bricks (FILL)	1-
2-					2-
3-	0.0	S-1			3-
4-				Refusal @ 3.5'	4-
5-					5-
6-					6-
7-					7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Hard irregular surface

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-23

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 4/20/2018  
 Test Pit Depth: 7.0'  
 Depth to Water: Not Encountered

TEST PIT TP-24

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Topsoil Loose, Brown, Sand, little Gravel, trace Brick, whole Bricks, Concrete, Plastic (FILL)	
2-	0.0			Brown, compact Silt, Sand, Gravel, occasional whole Bricks, Concrete, Rock pieces, Platic Sheeting, moist (FILL)	
3-	0.0	S-1	NA		
4-	0.0				Stable sidewalls
5-	0.0			...10% brick (FILL)	
6-	0.0				
7-	0.0			...trace/little Brick and Concrete (FILL)	
8-				Refusal @ 7.0'	Flat hard surface
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-24



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 4/20/2018  
 Test Pit Depth: 6.0'  
 Depth to Water: Not Encountered

TEST PIT TP-25

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Topsoil	1- 2- 3- Stable sidewalls 4- 5- 6- Slightly irregular hard surface
2-	0.0			Compact, Tan, medium Sand, trace rounded Gravel, moist (FILL)	
3-	0.0	S-1	NA		
4-	0.0				
5-	0.0				
6-	0.0				
7-				Refusal @ 6.0'	7- 8- 9- 10- 11- 12- 13- 14- 15- 16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-25



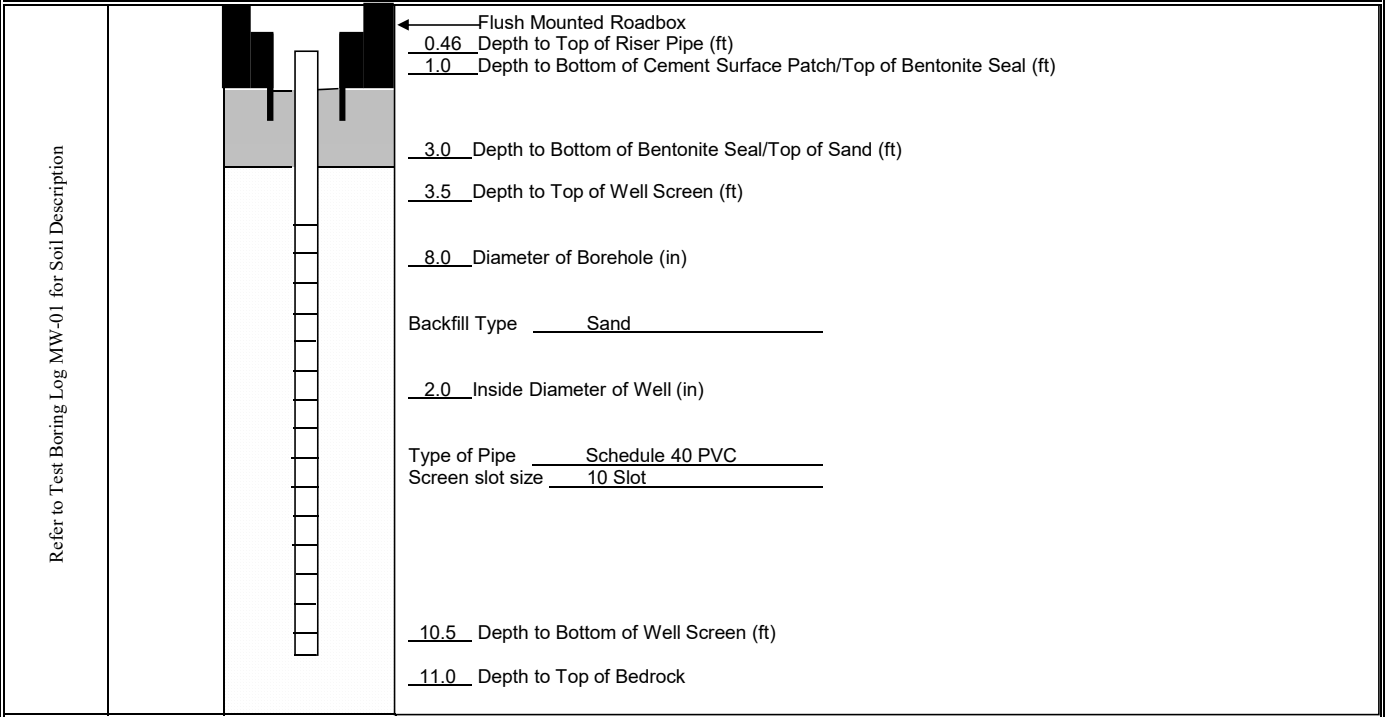
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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-01</b>	
Project Address:	Bulls Head				
	Rochester, New York	Ground Elevation:	536.39	Datum:	Rochester City datum
DAY Representative:	D. Peck	Date Started:	2/20/2018	Date Ended:	2/20/2018
Drilling Contractor:	Nature's Way				
		Water Level (Date):	5.24' (3-9-2018)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-01

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 FAX (212) 986-8657



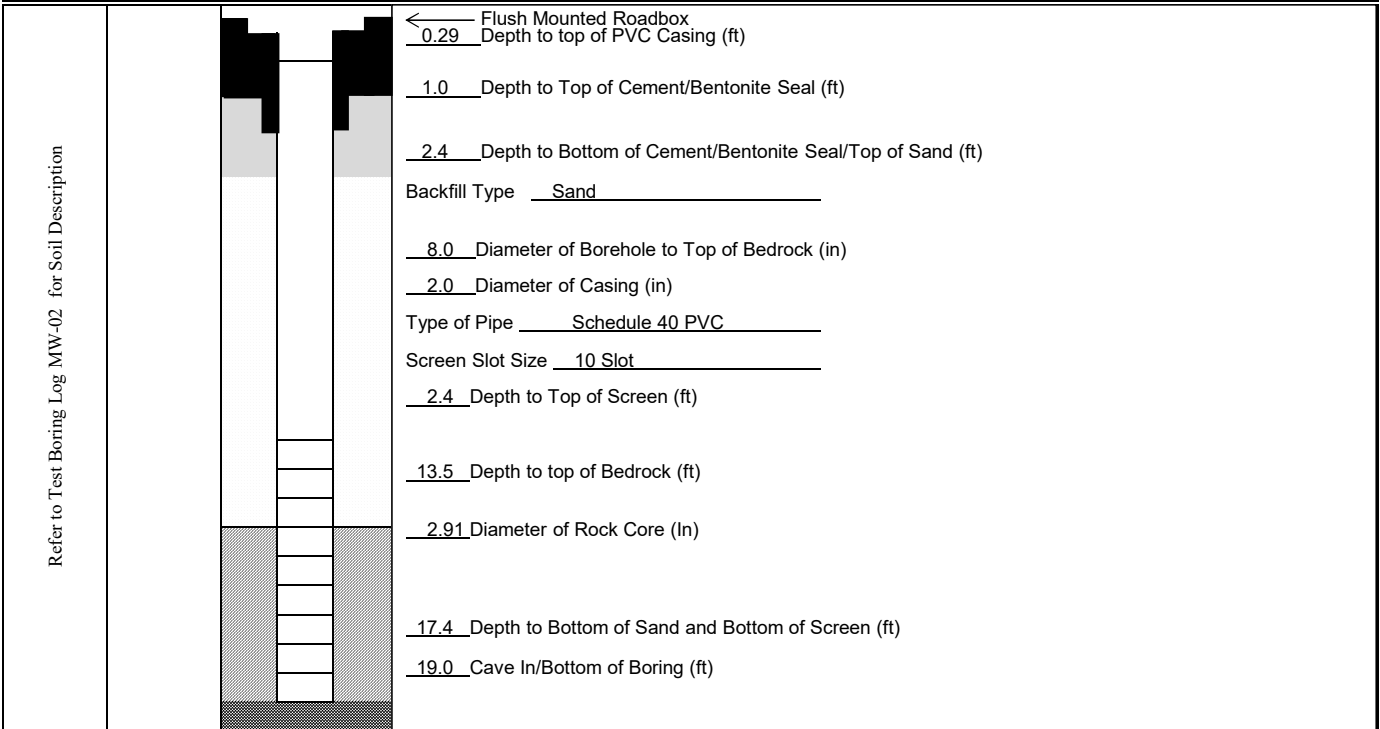
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-02</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	539.25		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/21/2018		Date Ended:	2/21/2018
Drilling Contractor:	Nature's Way	Water Level (Date):			8.28' (3/9/18)	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

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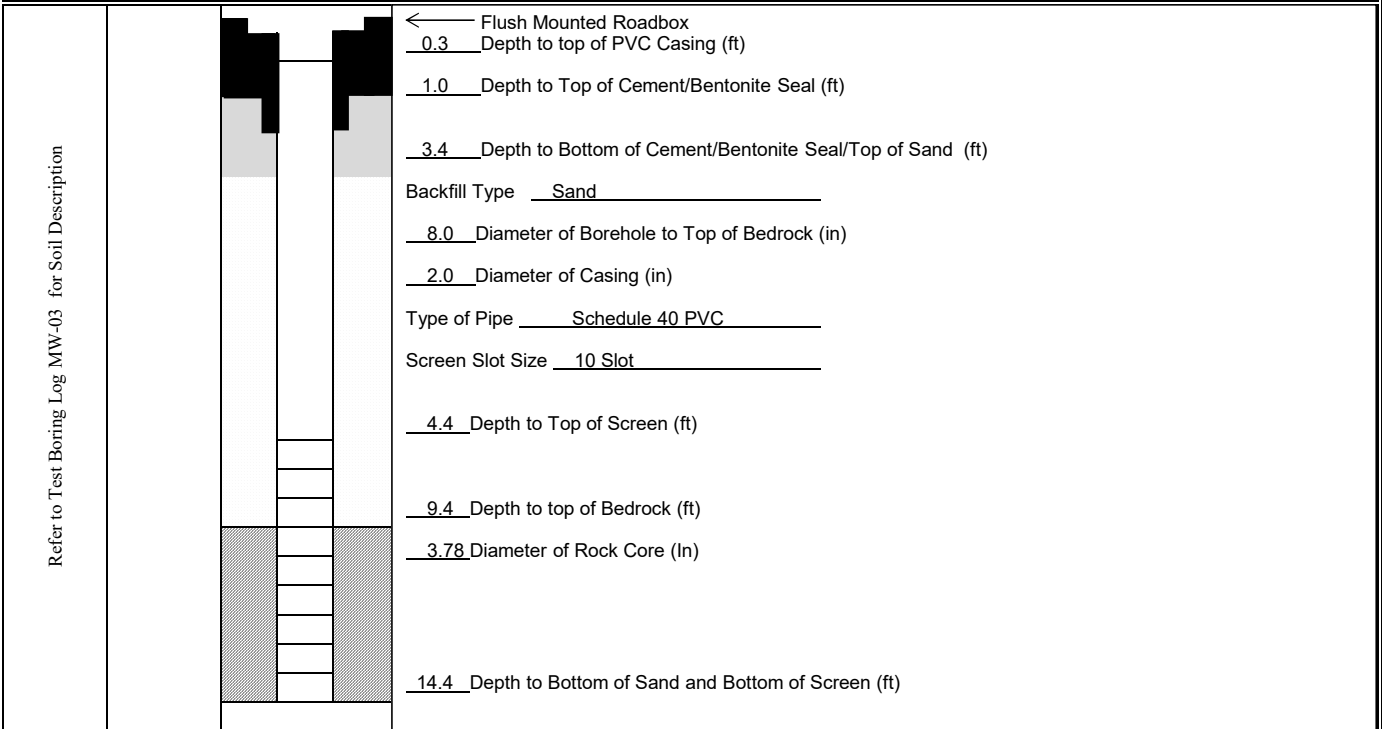
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-03</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	543.70		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/22/2018		Date Ended:	2/22/2018
Drilling Contractor:	Nature's Way	Water Level (Date):		7.35' (3/9/18)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-03

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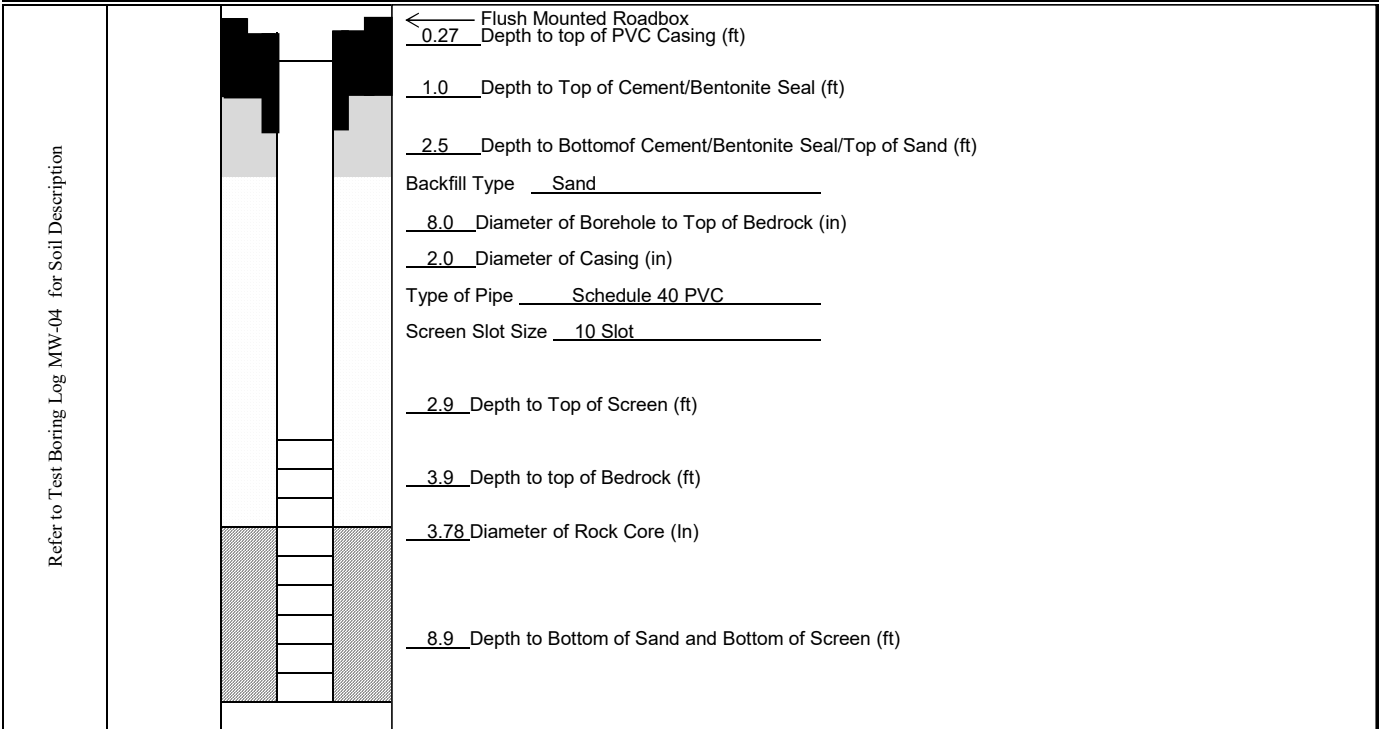
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-04</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	543.51		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/23/2018		Date Ended:	2/23/2018
Drilling Contractor:	Nature's Way	Water Level (Date):			5.9' (3/9/18)	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-04

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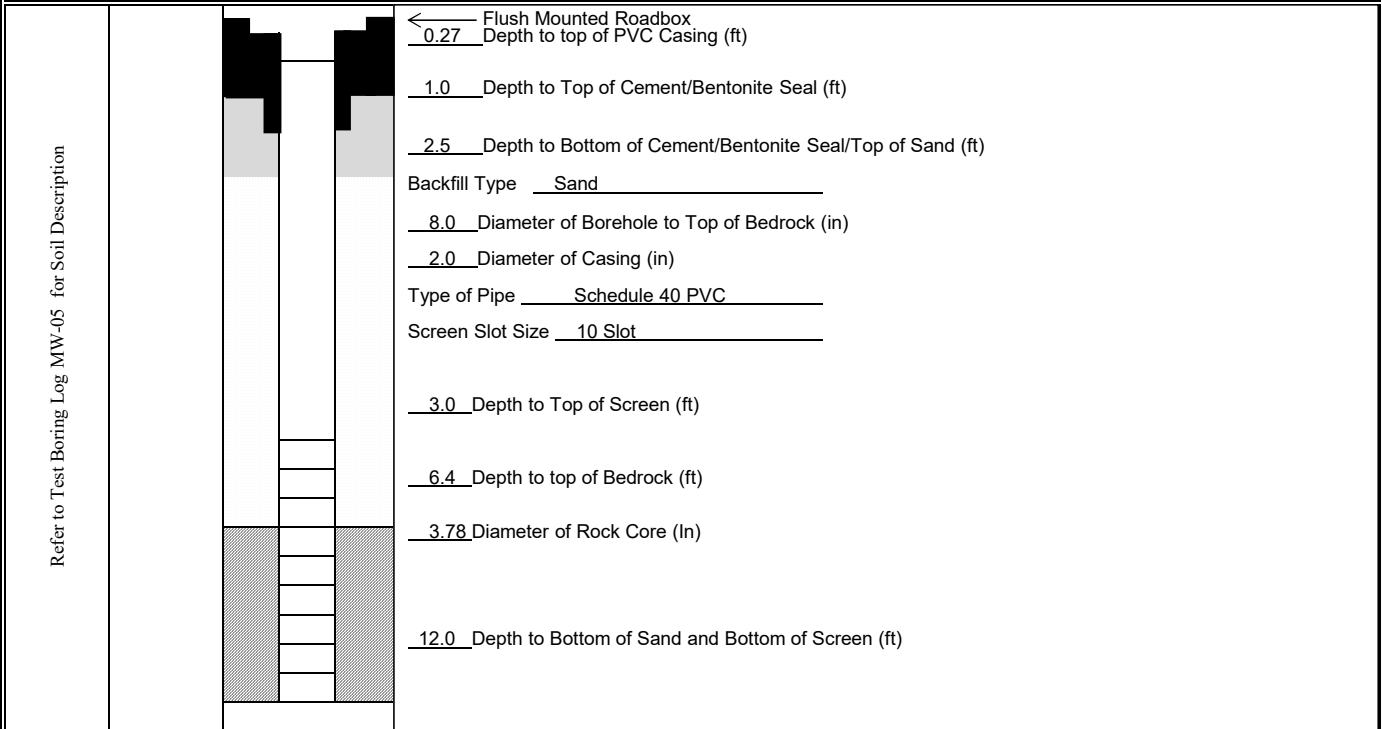
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-05</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	544.92		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/26/2018		Date Ended:	2/26/2018
Drilling Contractor:	Nature's Way	Water Level (Date):			6.97' (3/9/18)	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-05

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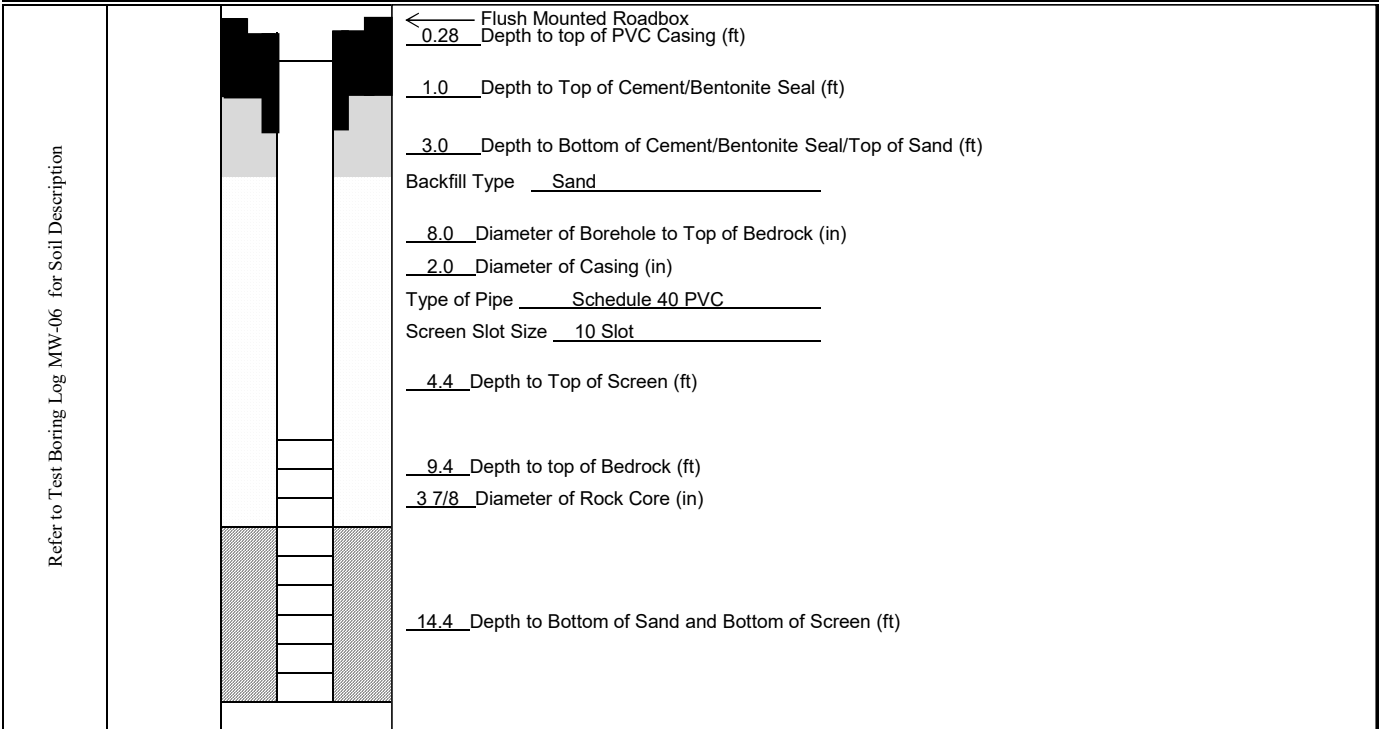
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-06</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	544.92		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/27/2018		Date Ended:	2/28/2018
Drilling Contractor:	Nature's Way	Water Level (Date):	8.15' (3/9/18)			



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-06

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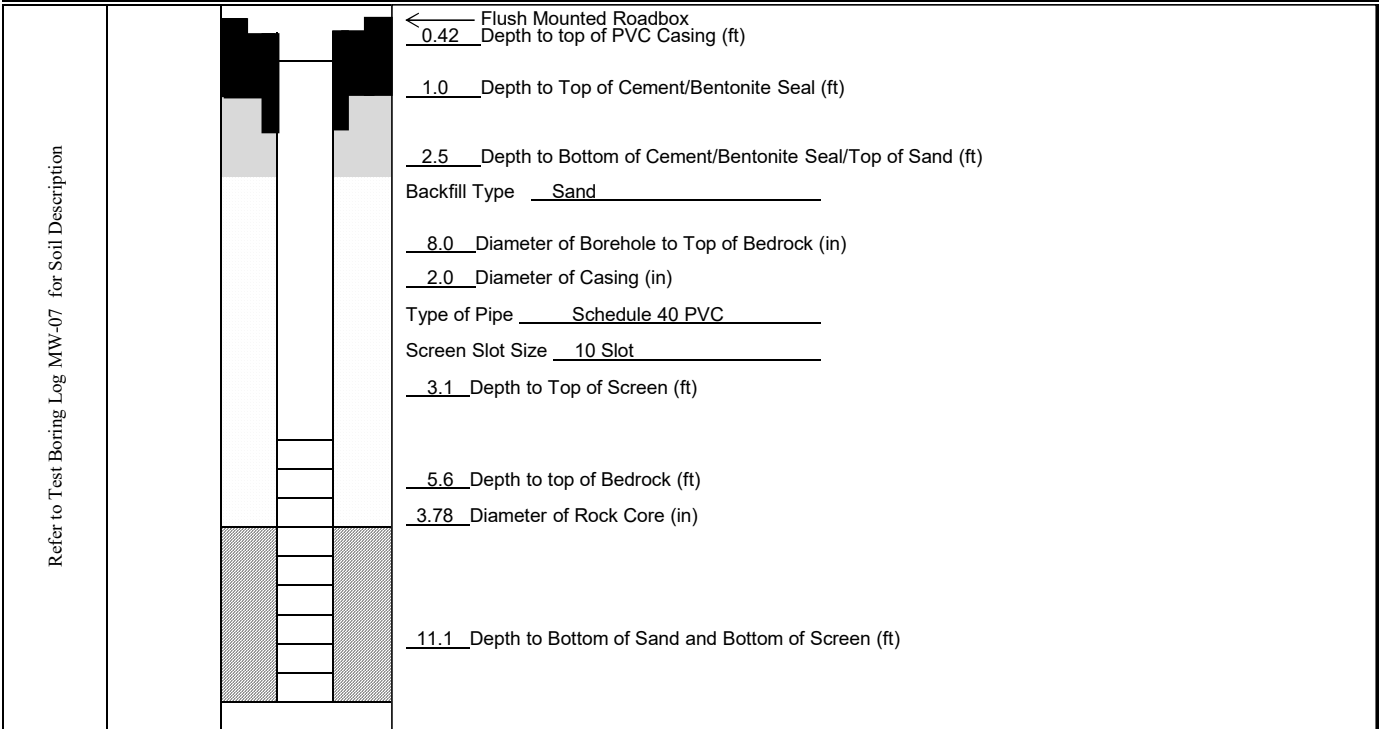
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-07</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	537.00		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/27/2018		Date Ended:	2/27/2018
Drilling Contractor:	Nature's Way	Water Level (Date): 6.53' (3/9/18)				



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-07

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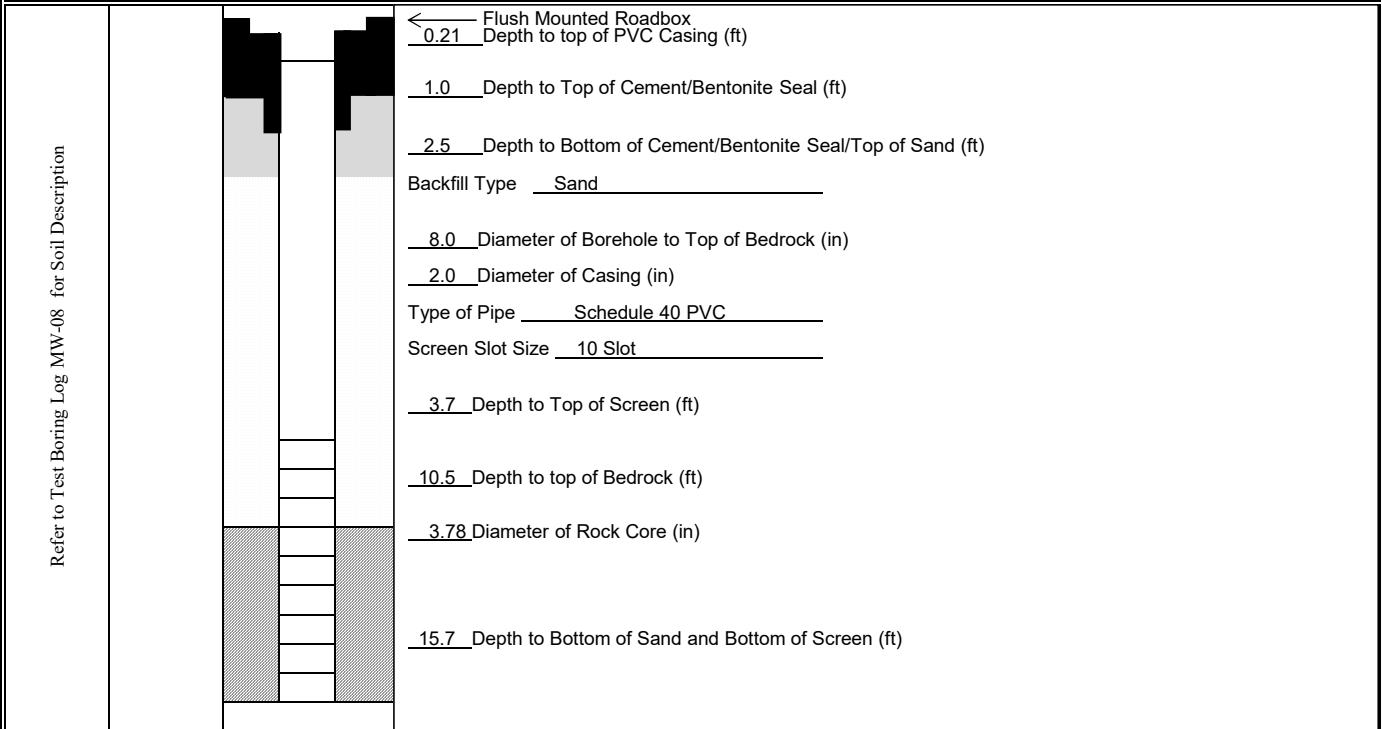
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-08</b>		
Project Address:	Bulls Head					
	Rochester, New York	Ground Elevation:	536.66		Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/28/2018		Date Ended:	2/28/2018
Drilling Contractor:	Nature's Way	Water Level (Date):			6.18' (3/9/18)	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-08

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**APPENDIX D**

**Well Development Logs and  
Monitoring Well Sampling Logs**



**WELL DEVELOPMENT DATA  
MW-01**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	4.3							
DEPTH OF WELL (FT)	10.45		10.45					
STATIC WATER LEVEL (SWL) FT	5.37							
VOLUME EVACUATED (GAL)	2	2	1					
TOTAL VOLUME EVACUATED (GAL)	2	4	5					
TEMPERATURE (°C)	12.10	9.47	9.42					
pH	7.26	7.10	6.91					
ORP (mV)	-61	-40	-31					
CONDUCTIVITY (ms/cm)	1.97	1.02	1.11					
TURBIDITY (NTU)	935	> 1,000	> 1,000					
OBSERVATION	NC	NC	NC					

LEGEND: NC = Not Collected  
ND = Not Detected  
\* = Not Measurable

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-02**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18 10:00	3/1/18	3/1/18	3/1/18 10:50				
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump	Gas Pump				
PID/FID (PPM)	0.3							
DEPTH OF WELL (FT)	16.95			17.00				
STATIC WATER LEVEL (SWL) FT	8.31			8.32				
VOLUME EVACUATED (GAL)	3	2	2	1				
TOTAL VOLUME EVACUATED (GAL)	3	5	7	8				
TEMPERATURE (°C)	14.16	14.90	13.92	13.64				
pH	6.95	6.93	6.91	6.87				
ORP (mV)	-58	-68	-61	-64				
CONDUCTIVITY (ms/cm)	4.58	4.55	4.50	4.40				
TURBIDITY (NTU)	873	302	> 1,000	> 1,000				
OBSERVATION	NC	NC	NC	NC				

LEGEND: NC = Not Collected  
ND = Not Detected  
\* = Not Measurable

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-03**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	0.2							
DEPTH OF WELL (FT)	13.86		13.87					
STATIC WATER LEVEL (SWL) FT	7.57							
VOLUME EVACUATED (GAL)	2	2	2					
TOTAL VOLUME EVACUATED (GAL)	2	4	6					
TEMPERATURE (°C)	12.80	10.31	12.21					
pH	7.76	7.70	7.85					
ORP (mV)	100	104	103					
CONDUCTIVITY (ms/cm)	16.0	15.4	15.2					
TURBIDITY (NTU)	> 1,000	> 1,000	> 1,000					
OBSERVATION	NC	NC	NC					

LEGEND: NC = Not Collected  
ND = Not Detected  
\* = Not Measurable

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-04**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	2.9							
DEPTH OF WELL (FT)	8.56		8.56					
STATIC WATER LEVEL (SWL) FT	5.98							
VOLUME EVACUATED (GAL)	0.5	0.5	0.5					
TOTAL VOLUME EVACUATED (GAL)	0.5	1.0	1.5					
TEMPERATURE (°C)	9.28	.083	10.15					
pH	7.20	7.06	7.14					
ORP (mV)	-66	-38	-34					
CONDUCTIVITY (ms/cm)	1.05	1.49	1.69					
TURBIDITY (NTU)	> 1,000	> 1,000	> 1,000					
OBSERVATION	NC	NC	NC					

LEGEND: NC = Not Collected  
 ND = Not Detected  
 \*= Not Measurable

Day Environmental, Inc.  
 1563 Lyell Avenue  
 Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-05**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	7.1							
DEPTH OF WELL (FT)	11.61		11.62					
STATIC WATER LEVEL (SWL) FT	7.20							
VOLUME EVACUATED (GAL)	1	1	1					
TOTAL VOLUME EVACUATED (GAL)	1	2	3					
TEMPERATURE (°C)	8.10	8.82	9.20					
pH	7.62	7.61	7.49					
ORP (mV)	35	60	74					
CONDUCTIVITY (ms/cm)	4.0	1.79	1.78					
TURBIDITY (NTU)	397	> 1,000	> 1,000					
OBSERVATION	NC	NC	NC					

LEGEND: NC = Not Collected  
 ND = Not Detected  
 \*= Not Measurable

Day Environmental, Inc.  
 1563 Lyell Avenue  
 Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-06**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	4.2							
DEPTH OF WELL (FT)	13.72		13.72					
STATIC WATER LEVEL (SWL) FT	8.38							
VOLUME EVACUATED (GAL)	1	3	1.3					
TOTAL VOLUME EVACUATED (GAL)	1	4	5.2					
TEMPERATURE (°C)	13.17	12.30	13.83					
pH	7.56	7.62	7.64					
ORP (mV)	50	64	86					
CONDUCTIVITY (ms/cm)	5.09	6.10	6.06					
TURBIDITY (NTU)	1000	> 1,000	> 1,000					
OBSERVATION	NC	NC	NC					

LEGEND: NC = Not Collected  
 ND = Not Detected  
 \*= Not Measurable

Day Environmental, Inc.  
 1563 Lyell Avenue  
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**WELL DEVELOPMENT DATA  
MW-07**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	6.8							
DEPTH OF WELL (FT)	10.66							
STATIC WATER LEVEL (SWL) FT	6.87							
VOLUME EVACUATED (GAL)	2	2						
TOTAL VOLUME EVACUATED (GAL)	2	4						
TEMPERATURE (°C)	10.76	10.84						
pH	6.96	6.86						
ORP (mV)	-6	-9						
CONDUCTIVITY (ms/cm)	1.64	1.69						
TURBIDITY (NTU)	> 1,000	> 1,000						
OBSERVATION	NC	NC						

LEGEND: NC = Not Collected  
ND = Not Detected  
\* = Not Measurable

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

**WELL DEVELOPMENT DATA  
MW-08**

SITE LOCATION: Bulls Head Sub-Area North, Rochester, NY

JOB#: 5464S-18

DATE/ TIME	3/1/18	3/1/18	3/1/18					
EVACUATION METHOD	Gas Pump	Gas Pump	Gas Pump					
PID/FID (PPM)	87.2							
DEPTH OF WELL (FT)	15.32		15.35					
STATIC WATER LEVEL (SWL) FT	6.22							
VOLUME EVACUATED (GAL)	3	2	3					
TOTAL VOLUME EVACUATED (GAL)	3	5	8					
TEMPERATURE (°C)	10.50	11.26	10.70					
pH	7.67	7.43	7.11					
ORP (mV)	-65	-72	-81					
CONDUCTIVITY (ms/cm)	6.78	1.87	1.69					
TURBIDITY (NTU)	> 1,000	> 1,000	> 1,000					
OBSERVATION	Petroleum type odors	NC	NC					

LEGEND: NC = Not Collected  
ND = Not Detected  
\* = Not Measurable

Day Environmental, Inc.  
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Rochester, New York 14606

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-01**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>3-9-18</u>
SAMPLE COLLECTOR(S): <u>C. Demian</u>	
WEATHER CONDITIONS: <u>30°F, Snow</u>	PID IN WELL (PPM): <u>2.0</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>10.5</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>5.24</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>5.26</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.85</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>2.57</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>~3</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u> PURGE START: <u>12:20</u> END: <u>12:35</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-01	3-9-2018 / 12:45	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
5.26	12.12	7.65	0.481	633	7.85	124	Cloudy

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-02**

SECTION 1 - SITE AND WELL INFORMATION			
SITE LOCATION	Bulls Head High Priority Sub Area North	JOB #	5464S-18
PROJECT NAME:	Phase II ESA	DATE:	3-9-2018
SAMPLE COLLECTOR(S):	HMM, D. Peck	WEATHER:	30°F, Snowy
PID READING IN WELL HEADSPACE (PPM):	0.1	MEASURING POINT (for water levels):	Top of Casing
CASING TYPE:	PVC	WELL DIAMETER (INCHES):	2
SCREENED INTERVAL [FT BGS]:	2.4 – 17.4	INITIAL WATER LEVEL (SWL) [FT]:	SWL / Date Measured 8.28 / 3-9-18
WELL DEPTH [FT BGS]:	17.4	DEPTH OF PUMP INTAKE [FT BGS]:	9.39
<small>(Do NOT Measure Well depth Prior To Purging And Sampling)</small>			
LNAPL:	ND	DNAPL:	ND
		OTHER OBSERVATIONS:	Clear

SECTION 2 – SAMPLING EQUIPMENT			
CONTROL BOX:	QED MP-10	TUBING TYPE:	1/4" Poly (Water), 1/8" Poly (Air)
WATER QUALITY METER:	Horiba U-52	WATER LEVEL METER:	Solinst Model 122
PUMP TYPE:	QED - 3/4" Bladder	PURGE GAS:	Air
CONTROL BOX DISCHARGE RATE:	5	CONTROL BOX REFILL RATE:	2
STABILIZED PUMP RATE (ml/min):	80	STABILIZED DRAWDOWN WATER LEVEL [FT]:	8.28

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C <sup>0</sup> )	Total Vol. Pumped (ml)
12:30	80	8.28	1.33	-73	29.1	2.23	6.99	9.07	1000
12:34	80	8.28	1.30	-74	28.0	2.23	6.99	9.18	1320
12:38	80	8.28	1.14	-77	24.6	2.24	6.99	9.34	1640
12:42	80	8.28	1.04	-79	25.6	2.24	6.98	9.64	1960
12:46	80	8.28	0.99	-80	24.0	2.24	6.98	9.94	2280
12:50	80	8.28	0.93	-81	23.4	2.26	6.98	10.30	2600
<b>SAMPLE OBSERVATIONS: Clear</b>									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-02	3-9-2018 / 12:50	Bladder Pump	VOCs, SVOCs, Metals

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-03**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>3-9-18</u>
SAMPLE COLLECTOR(S): <u>C. Demian</u>	
WEATHER CONDITIONS: <u>30°F, Snow</u>	PID IN WELL (PPM): <u>0.3</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>14.4</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>7.35</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>7.05</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>1.15</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>3.45</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>3.5</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u> PURGE START: <u>13:30</u> END: <u>13:50</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-03	3-9-2018 / 14:25	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
7.61	13.12	7.47	6.77	673	8.22	76	Cloudy

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-04**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>3-9-18</u>
SAMPLE COLLECTOR(S): <u>C. Demian</u>	
WEATHER CONDITIONS: <u>30°F, Snow</u>	PID IN WELL (PPM): <u>0.3</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>8.9</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>5.90</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>3.0</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.49</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>1.47</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>2.5</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u> PURGE START: <u>11:10</u> END: <u>11:28</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-04	3-9-2018 / 15:55	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
5.93	10.62	6.65	2.05	485	7.85	141	Cloudy

N/M = Not Measured  
ND = Not Detected



**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-05**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>3-9-18</u>
SAMPLE COLLECTOR(S): <u>C. Demian</u>	
WEATHER CONDITIONS: <u>30°F, Snow</u>	PID IN WELL (PPM): <u>6.9</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>12.0</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>6.97</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>5.03</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.82</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>2.46</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>2.5</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u> PURGE START: <u>11:35</u> END: <u>11:55</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-05	3-9-2018 / 16:00	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
6.95	10.86	7.90	1.41	560	6.17	137	Cloudy

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-06**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>3-9-18</u>
SAMPLE COLLECTOR(S): <u>C. Demian</u>	
WEATHER CONDITIONS: <u>30°F, Snow</u>	PID IN WELL (PPM): <u>1.4</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>14.4</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>8.15</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>6.25</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>1.02</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>3.06</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>3.5</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u> PURGE START: <u>15:05</u> END: <u>15:25</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-06	3-9-2018 / 15:45	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
8.30	14.9	7.60	11.5	0.0	6.62	97	Clear

N/M = Not Measured  
ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-07**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>3-9-18</u>
SAMPLE COLLECTOR(S): <u>C. Demian</u>	
WEATHER CONDITIONS: <u>30°F, Snow</u>	PID IN WELL (PPM): <u>3.2</u> LNAPL <u>ND</u> DNAPL <u>ND</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>11.1</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>6.53</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>4.57</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.75</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>2.25</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>1.9 dry</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u>	PURGE START: <u>12:50</u> END: <u>13:18</u>

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-07	3-9-2018 / 14:10	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
6.55	11.30	7.13	1.33	491	6.67	-5	Cloudy

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.**  
**LOW-FLOW GROUNDWATER PURGING AND SAMPLING LOG**  
**WELL MW-08**

SECTION 1 - SITE AND WELL INFORMATION			
SITE LOCATION	Bulls Head High Priority Sub Area North	JOB #	5464S-18
PROJECT NAME:	Phase II ESA	DATE:	3-9-2018
SAMPLE COLLECTOR(S):	D. Peck	WEATHER:	30°F, Snowy
PID READING IN WELL HEADSPACE (PPM):	67.6	MEASURING POINT (for water levels):	Top of Casing
CASING TYPE:	PVC	WELL DIAMETER (INCHES):	2
SCREENED INTERVAL [FT BGS]:	3.7 – 15.7	INITIAL WATER LEVEL (SWL) [FT]:	SWL / Date Measured 6.18 / 3-9-18
WELL DEPTH [FT BGS]:	15.7	DEPTH OF PUMP INTAKE [FT BGS]:	10.94
<small>(Do NOT Measure Well depth Prior To Purging And Sampling)</small>			
LNAPL:	ND	DNAPL:	ND
		OTHER OBSERVATIONS:	Clear

SECTION 2 – SAMPLING EQUIPMENT			
CONTROL BOX:	QED MP-10	TUBING TYPE:	1/4" Poly (Water), 1/8" Poly (Air)
WATER QUALITY METER:	Horiba U-52	WATER LEVEL METER:	Solinst Model 122
PUMP TYPE:	QED - 3/4" Bladder	PURGE GAS:	Air
CONTROL BOX DISCHARGE RATE:	5	CONTROL BOX REFILL RATE:	3
STABILIZED PUMP RATE (ml/min):	60	STABILIZED DRAWDOWN WATER LEVEL [FT]:	6.18

SECTION 3 – WATER QUALITY DATA MONITORING									
Time	Pumping Rate (ml/min)	Water Level (ft)	DO (mg/L)	ORP (mv)	Turbidity (NTU)	Conductivity (mS/cm)	pH	Temp. (C <sup>0</sup> )	Total Vol. Pumped (ml)
15:25	60	6.19	0.87	-122	46.8	1.66	7.27	9.08	500
15:29	60	6.19	0.81	-114	34.9	1.67	7.27	9.10	740
15:35	60	6.18	0.78	-116	26.8	1.67	7.27	9.15	1100
15:40	60	6.18	0.71	-117	21.4	1.67	7.27	9.20	1400
15:46	60	6.18	0.67	-118	18.9	1.67	7.27	9.28	1760
<b>SAMPLE OBSERVATIONS: Clear</b>									

SECTION 4 - SAMPLE IDENTIFICATION AND ANALYTICAL LABORATORY PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-08	3-9-2018 / 15:47	Bladder Pump	VOCs, SVOCs, Metals

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-01**

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE: <u>4-16-2018</u>
SAMPLE COLLECTOR(S): <u>C. Demian / D. Peck</u>	
WEATHER CONDITIONS: <u>35-40°F, light rain</u>	PID IN WELL (PPM): <u>2.0</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>10.5</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>4.96</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>5.54</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>0.904</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<u>CASING DIA. (FT)</u>	<u>WELL CONSTANT(GAL/FT)</u>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	<del>0.063</del>
2" (0.1667)	<u>0.1632</u>
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>2.712</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>2.8</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u> PURGE START: <u>12:40</u> END: <u>12:50</u>	

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-01	4-16-2018 / 15:10	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
4.85	12.0	6.92	0.87	1415	5.27	204.4	Clear

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-02**

SECTION 1 - SITE INFORMATION	
<b>SITE LOCATION:</b> <u>Bulls Head High Priority Sub-Area North</u> <u>Rochester, New York</u>	<b>JOB #:</b> <u>5464S-18</u> <b>DATE :</b> <u>4-16-2018</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Demian / D. Peck</u>	<b>PID IN WELL (PPM):</b> <u>0.0</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>
<b>WEATHER CONDITIONS:</b> <u>35-40°F, light rain</u>	

SECTION 2 - PURGE INFORMATION																								
<b>DEPTH OF WELL [FT]:</b> <u>17.4</u> (MEASURED FROM TOP OF CASING - T.O.C.)																								
<b>STATIC WATER LEVEL (SWL) [FT]:</b> <u>8.25</u> (MEASURED FROM T.O.C.)																								
<b>THICKNESS OF WATER COLUMN [FT]:</b> <u>9.15</u> (DEPTH OF WELL - SWL)																								
<b>CALCULATED VOL. OF H<sub>2</sub>O PER WELL CASING [GAL]:</b> <u>1.493</u> <b>CASING DIA.:</b> <u>2"</u>																								
<b>CALCULATIONS:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CASING DIA. (FT)</th> <th style="text-align: left;">WELL CONSTANT(GAL/FT)</th> <th style="text-align: left;">CALCULATIONS</th> </tr> </thead> <tbody> <tr> <td>3/4" (0.0625)</td> <td>0.023</td> <td rowspan="8">VOL. OF H<sub>2</sub>O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT</td> </tr> <tr> <td>1" (0.0833)</td> <td>0.041</td> </tr> <tr> <td>1 1/4" (0.1041)</td> <td>0.063</td> </tr> <tr> <td>2" (0.1667)</td> <td>0.1632</td> </tr> <tr> <td>3" (0.250)</td> <td>0.380</td> </tr> <tr> <td>4" (0.3333)</td> <td>0.6528</td> </tr> <tr> <td>4 1/2" (0.375)</td> <td>0.826</td> </tr> <tr> <td>6" (0.5000)</td> <td>1.4688</td> </tr> <tr> <td>8" (0.666)</td> <td>2.611</td> <td></td> </tr> </tbody> </table>		CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS	3/4" (0.0625)	0.023	VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	1" (0.0833)	0.041	1 1/4" (0.1041)	0.063	2" (0.1667)	0.1632	3" (0.250)	0.380	4" (0.3333)	0.6528	4 1/2" (0.375)	0.826	6" (0.5000)	1.4688	8" (0.666)	2.611	
CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS																						
3/4" (0.0625)	0.023	VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT																						
1" (0.0833)	0.041																							
1 1/4" (0.1041)	0.063																							
2" (0.1667)	0.1632																							
3" (0.250)	0.380																							
4" (0.3333)	0.6528																							
4 1/2" (0.375)	0.826																							
6" (0.5000)	1.4688																							
8" (0.666)	2.611																							
<b>CALCULATED PURGE VOLUME [GAL]:</b> <u>4.47</u> (3 TIMES CASING VOLUME)																								
<b>ACTUAL VOLUME PURGED [GAL]:</b> <u>5.0</u>																								
<b>PURGE METHOD:</b> <u>Gas Pump &amp; Tubing</u> <b>PURGE START:</b> <u>14:10</u> <b>END:</b> <u>14:25</u>																								

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-02	4-16-2018 / 15:45	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
8.25	18.3	6.95	3.386	28.2	2.58	-31.8	Turbid

N/M = Not Measured  
 ND = Not Detected



**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

WELL MW-03

SECTION 1 - SITE INFORMATION	
SITE LOCATION: <u>Bulls Head High Priority Sub-Area North</u>	JOB #: <u>5464S-18</u>
<u>Rochester, New York</u>	DATE : <u>4-16-2018</u>
SAMPLE COLLECTOR(S): <u>C. Demian / D. Peck</u>	
WEATHER CONDITIONS: <u>35-40°F, light rain</u>	PID IN WELL (PPM): <u>0.0</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>

SECTION 2 - PURGE INFORMATION	
DEPTH OF WELL [FT]: <u>14.4</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
STATIC WATER LEVEL (SWL) [FT]: <u>7.34</u> (MEASURED FROM T.O.C.)	
THICKNESS OF WATER COLUMN [FT]: <u>7.06</u> (DEPTH OF WELL - SWL)	
CALCULATED VOL. OF H <sub>2</sub> O PER WELL CASING [GAL]: <u>1.152</u> CASING DIA.: <u>2"</u>	
<b>CALCULATIONS:</b>	
<b>CASING DIA. (FT)</b>	<b>WELL CONSTANT(GAL/FT)</b>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	0.063
2" (0.1667)	0.1632
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	
CALCULATED PURGE VOLUME [GAL]: <u>3.45</u> (3 TIMES CASING VOLUME)	
ACTUAL VOLUME PURGED [GAL]: <u>4.0</u>	
PURGE METHOD: <u>Gas Pump &amp; Tubing</u>	PURGE START: <u>13:00</u> END: <u>13:20</u>

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-03	4-16-2018 / 16:30	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
7.32	10.2	7.60	7.110	411.7	8.66	85.9	Turbid

N/M = Not Measured  
ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-04**

SECTION 1 - SITE INFORMATION	
<b>SITE LOCATION:</b> <u>Bulls Head High Priority Sub-Area North</u> <u>Rochester, New York</u>	<b>JOB #:</b> <u>5464S-18</u> <b>DATE :</b> <u>4-16-2018</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Demian / D. Peck</u>	<b>PID IN WELL (PPM):</b> <u>0.0</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>
<b>WEATHER CONDITIONS:</b> <u>35-40°F, light rain</u>	

SECTION 2 - PURGE INFORMATION																								
<b>DEPTH OF WELL [FT]:</b> <u>8.9</u> (MEASURED FROM TOP OF CASING - T.O.C.)																								
<b>STATIC WATER LEVEL (SWL) [FT]:</b> <u>5.80</u> (MEASURED FROM T.O.C.)																								
<b>THICKNESS OF WATER COLUMN [FT]:</b> <u>3.1</u> (DEPTH OF WELL - SWL)																								
<b>CALCULATED VOL. OF H<sub>2</sub>O PER WELL CASING [GAL]:</b> <u>0.505</u> <b>CASING DIA.:</b> <u>2"</u>																								
<b>CALCULATIONS:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CASING DIA. (FT)</th> <th style="text-align: left;">WELL CONSTANT(GAL/FT)</th> <th style="text-align: left;">CALCULATIONS</th> </tr> </thead> <tbody> <tr> <td>3/4" (0.0625)</td> <td>0.023</td> <td rowspan="8">VOL. OF H<sub>2</sub>O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT</td> </tr> <tr> <td>1" (0.0833)</td> <td>0.041</td> </tr> <tr> <td>1 1/4" (0.1041)</td> <td>0.063</td> </tr> <tr> <td>2" (0.1667)</td> <td>0.1632</td> </tr> <tr> <td>3" (0.250)</td> <td>0.380</td> </tr> <tr> <td>4" (0.3333)</td> <td>0.6528</td> </tr> <tr> <td>4 1/2" (0.375)</td> <td>0.826</td> </tr> <tr> <td>6" (0.5000)</td> <td>1.4688</td> </tr> <tr> <td>8" (0.666)</td> <td>2.611</td> <td></td> </tr> </tbody> </table>		CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS	3/4" (0.0625)	0.023	VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	1" (0.0833)	0.041	1 1/4" (0.1041)	0.063	2" (0.1667)	0.1632	3" (0.250)	0.380	4" (0.3333)	0.6528	4 1/2" (0.375)	0.826	6" (0.5000)	1.4688	8" (0.666)	2.611	
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8" (0.666)	2.611																							
<b>CALCULATED PURGE VOLUME [GAL]:</b> <u>1.51</u> (3 TIMES CASING VOLUME)																								
<b>ACTUAL VOLUME PURGED [GAL]:</b> <u>1.5</u>																								
<b>PURGE METHOD:</b> <u>Gas Pump &amp; Tubing</u> <b>PURGE START:</b> <u>11:45</u> <b>END:</b> <u>12:00</u>																								

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-04	4-16-2018 / 16:00	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
5.52	7.6	8.65	0.49	278.6	10.58	180	Turbid

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-05**

SECTION 1 - SITE INFORMATION	
<b>SITE LOCATION:</b> <u>Bulls Head High Priority Sub-Area North</u>	<b>JOB #:</b> <u>5464S-18</u>
<u>Rochester, New York</u>	<b>DATE :</b> <u>4-16-2018</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Demian / D. Peck</u>	
<b>WEATHER CONDITIONS:</b> <u>35-40°F, light rain</u>	<b>PID IN WELL (PPM):</b> <u>0.0</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>

SECTION 2 - PURGE INFORMATION	
<b>DEPTH OF WELL [FT]:</b> <u>12.0</u> (MEASURED FROM TOP OF CASING - T.O.C.)	
<b>STATIC WATER LEVEL (SWL) [FT]:</b> <u>6.99</u> (MEASURED FROM T.O.C.)	
<b>THICKNESS OF WATER COLUMN [FT]:</b> <u>5.01</u> (DEPTH OF WELL - SWL)	
<b>CALCULATED VOL. OF H<sub>2</sub>O PER WELL CASING [GAL]:</b> <u>0.817</u>	<b>CASING DIA.:</b> <u>2"</u>
<b>CALCULATIONS:</b>	
<b>CASING DIA. (FT)</b>	<b>WELL CONSTANT(GAL/FT)</b>
3/4" (0.0625)	0.023
1" (0.0833)	0.041
1 1/4" (0.1041)	0.063
2" (0.1667)	0.1632
3" (0.250)	0.380
4" (0.3333)	0.6528
4 1/2" (0.375)	0.826
6" (0.5000)	1.4688
8" (0.666)	2.611
<small>VOL. OF H<sub>2</sub>O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT</small>	
<b>CALCULATED PURGE VOLUME [GAL]:</b> <u>2.45</u> (3 TIMES CASING VOLUME)	
<b>ACTUAL VOLUME PURGED [GAL]:</b> <u>2.0 (dry)</u>	
<b>PURGE METHOD:</b> <u>Gas Pump &amp; Tubing</u>	<b>PURGE START:</b> <u>12:05</u> <b>END:</b> <u>12:30</u>

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-05	4-16-2018 / 16:10	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
6.98	10.8	7.67	0.889	1273	9.01	201.6	Turbid

N/M = Not Measured

ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-06**

SECTION 1 - SITE INFORMATION	
<b>SITE LOCATION:</b> <u>Bulls Head High Priority Sub-Area North</u> <u>Rochester, New York</u>	<b>JOB #:</b> <u>5464S-18</u> <b>DATE :</b> <u>4-16-2018</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Demian / D. Peck</u>	<b>PID IN WELL (PPM):</b> <u>0.5</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>
<b>WEATHER CONDITIONS:</b> <u>35-40°F, light rain</u>	

SECTION 2 - PURGE INFORMATION																								
<b>DEPTH OF WELL [FT]:</b> <u>14.4</u> (MEASURED FROM TOP OF CASING - T.O.C.)																								
<b>STATIC WATER LEVEL (SWL) [FT]:</b> <u>8.67</u> (MEASURED FROM T.O.C.)																								
<b>THICKNESS OF WATER COLUMN [FT]:</b> <u>5.73</u> (DEPTH OF WELL - SWL)																								
<b>CALCULATED VOL. OF H<sub>2</sub>O PER WELL CASING [GAL]:</b> <u>0.935</u> <b>CASING DIA.:</b> <u>2"</u>																								
<b>CALCULATIONS:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CASING DIA. (FT)</th> <th style="text-align: left;">WELL CONSTANT(GAL/FT)</th> <th style="text-align: left;">CALCULATIONS</th> </tr> </thead> <tbody> <tr> <td>3/4" (0.0625)</td> <td>0.023</td> <td rowspan="8">VOL. OF H<sub>2</sub>O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT</td> </tr> <tr> <td>1" (0.0833)</td> <td>0.041</td> </tr> <tr> <td>1 1/4" (0.1041)</td> <td>0.063</td> </tr> <tr> <td>2" (0.1667)</td> <td>0.1632</td> </tr> <tr> <td>3" (0.250)</td> <td>0.380</td> </tr> <tr> <td>4" (0.3333)</td> <td>0.6528</td> </tr> <tr> <td>4 1/2" (0.375)</td> <td>0.826</td> </tr> <tr> <td>6" (0.5000)</td> <td>1.4688</td> </tr> <tr> <td>8" (0.666)</td> <td>2.611</td> <td></td> </tr> </tbody> </table>		CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS	3/4" (0.0625)	0.023	VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	1" (0.0833)	0.041	1 1/4" (0.1041)	0.063	2" (0.1667)	0.1632	3" (0.250)	0.380	4" (0.3333)	0.6528	4 1/2" (0.375)	0.826	6" (0.5000)	1.4688	8" (0.666)	2.611	
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<b>CALCULATED PURGE VOLUME [GAL]:</b> <u>2.80</u> (3 TIMES CASING VOLUME)																								
<b>ACTUAL VOLUME PURGED [GAL]:</b> <u>4.0</u>																								
<b>PURGE METHOD:</b> <u>Gas Pump &amp; Tubing</u> <b>PURGE START:</b> <u>13:35</u> <b>END:</b> <u>14:00</u>																								

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-06	4-16-2018 / 16:20	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
8.00	12.3	7.25	4.685	54.7	7.94	32.8	Turbid

N/M = Not Measured  
 ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-07**

SECTION 1 - SITE INFORMATION	
<b>SITE LOCATION:</b> <u>Bulls Head High Priority Sub-Area North</u> <u>Rochester, New York</u>	<b>JOB #:</b> <u>5464S-18</u> <b>DATE :</b> <u>4-16-2018</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Demian / D. Peck</u>	<b>PID IN WELL (PPM):</b> <u>0.2</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>
<b>WEATHER CONDITIONS:</b> <u>35-40°F, light rain</u>	

SECTION 2 - PURGE INFORMATION																								
<b>DEPTH OF WELL [FT]:</b> <u>11.1</u> (MEASURED FROM TOP OF CASING - T.O.C.)																								
<b>STATIC WATER LEVEL (SWL) [FT]:</b> <u>6.42</u> (MEASURED FROM T.O.C.)																								
<b>THICKNESS OF WATER COLUMN [FT]:</b> <u>4.68</u> (DEPTH OF WELL - SWL)																								
<b>CALCULATED VOL. OF H<sub>2</sub>O PER WELL CASING [GAL]:</b> <u>0.763</u> <b>CASING DIA.:</b> <u>2"</u>																								
<b>CALCULATIONS:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CASING DIA. (FT)</th> <th style="text-align: left;">WELL CONSTANT(GAL/FT)</th> <th style="text-align: left;">CALCULATIONS</th> </tr> </thead> <tbody> <tr> <td>3/4" (0.0625)</td> <td>0.023</td> <td rowspan="8">VOL. OF H<sub>2</sub>O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT</td> </tr> <tr> <td>1" (0.0833)</td> <td>0.041</td> </tr> <tr> <td>1 1/4" (0.1041)</td> <td>0.063</td> </tr> <tr> <td>2" (0.1667)</td> <td>0.1632</td> </tr> <tr> <td>3" (0.250)</td> <td>0.380</td> </tr> <tr> <td>4" (0.3333)</td> <td>0.6528</td> </tr> <tr> <td>4 1/2" (0.375)</td> <td>0.826</td> </tr> <tr> <td>6" (0.5000)</td> <td>1.4688</td> </tr> <tr> <td>8" (0.666)</td> <td>2.611</td> <td></td> </tr> </tbody> </table>		CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS	3/4" (0.0625)	0.023	VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	1" (0.0833)	0.041	1 1/4" (0.1041)	0.063	2" (0.1667)	0.1632	3" (0.250)	0.380	4" (0.3333)	0.6528	4 1/2" (0.375)	0.826	6" (0.5000)	1.4688	8" (0.666)	2.611	
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6" (0.5000)	1.4688																							
8" (0.666)	2.611																							
<b>CALCULATED PURGE VOLUME [GAL]:</b> <u>2.29</u> (3 TIMES CASING VOLUME)																								
<b>ACTUAL VOLUME PURGED [GAL]:</b> <u>2.0</u>																								
<b>PURGE METHOD:</b> <u>Gas Pump &amp; Tubing</u> <b>PURGE START:</b> <u>11:00</u> <b>END:</b> <u>12:10</u>																								

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-07	4-16-2018 / 15:40	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
6.39	90.4	7.44	2.78	1350.2	8.65	58.6	Turbid

N/M = Not Measured  
 ND = Not Detected

**DAY ENVIRONMENTAL, INC.  
MONITORING WELL SAMPLING LOG**

**WELL MW-08**

SECTION 1 - SITE INFORMATION	
<b>SITE LOCATION:</b> <u>Bulls Head High Priority Sub-Area North</u> <u>Rochester, New York</u>	<b>JOB #:</b> <u>5464S-18</u> <b>DATE :</b> <u>4-16-2018</u>
<b>SAMPLE COLLECTOR(S):</b> <u>C. Demian / D. Peck</u>	<b>PID IN WELL (PPM):</b> <u>4.2</u> LNAPL <u>ND</u> DNAPL <u>N/M</u>
<b>WEATHER CONDITIONS:</b> <u>35-40°F, light rain</u>	

SECTION 2 - PURGE INFORMATION																								
<b>DEPTH OF WELL [FT]:</b> <u>15.7</u> (MEASURED FROM TOP OF CASING - T.O.C.)																								
<b>STATIC WATER LEVEL (SWL) [FT]:</b> <u>6.00</u> (MEASURED FROM T.O.C.)																								
<b>THICKNESS OF WATER COLUMN [FT]:</b> <u>9.7</u> (DEPTH OF WELL - SWL)																								
<b>CALCULATED VOL. OF H<sub>2</sub>O PER WELL CASING [GAL]:</b> <u>1.58</u> <b>CASING DIA.:</b> <u>2"</u>																								
<b>CALCULATIONS:</b> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CASING DIA. (FT)</th> <th style="text-align: left;">WELL CONSTANT(GAL/FT)</th> <th style="text-align: left;">CALCULATIONS</th> </tr> </thead> <tbody> <tr> <td>3/4" (0.0625)</td> <td>0.023</td> <td rowspan="8">VOL. OF H<sub>2</sub>O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT</td> </tr> <tr> <td>1" (0.0833)</td> <td>0.041</td> </tr> <tr> <td>1 1/4" (0.1041)</td> <td>0.063</td> </tr> <tr> <td>2" (0.1667)</td> <td>0.1632</td> </tr> <tr> <td>3" (0.250)</td> <td>0.380</td> </tr> <tr> <td>4" (0.3333)</td> <td>0.6528</td> </tr> <tr> <td>4 1/2" (0.375)</td> <td>0.826</td> </tr> <tr> <td>6" (0.5000)</td> <td>1.4688</td> </tr> <tr> <td>8" (0.666)</td> <td>2.611</td> <td></td> </tr> </tbody> </table>		CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS	3/4" (0.0625)	0.023	VOL. OF H <sub>2</sub> O IN CASING = DEPTH OF WATER COLUMN X WELL CONSTANT	1" (0.0833)	0.041	1 1/4" (0.1041)	0.063	2" (0.1667)	0.1632	3" (0.250)	0.380	4" (0.3333)	0.6528	4 1/2" (0.375)	0.826	6" (0.5000)	1.4688	8" (0.666)	2.611	
CASING DIA. (FT)	WELL CONSTANT(GAL/FT)	CALCULATIONS																						
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6" (0.5000)	1.4688																							
8" (0.666)	2.611																							
<b>CALCULATED PURGE VOLUME [GAL]:</b> <u>4.74</u> (3 TIMES CASING VOLUME)																								
<b>ACTUAL VOLUME PURGED [GAL]:</b> <u>5.0</u>																								
<b>PURGE METHOD:</b> <u>Gas Pump &amp; Tubing</u> <b>PURGE START:</b> <u>12:15</u> <b>END:</b> <u>12:45</u>																								

SECTION 3 - SAMPLE IDENTIFICATION AND TEST PARAMETERS			
SAMPLE ID #	DATE / TIME	SAMPLING METHOD	ANALYTICAL SCAN(S)
MW-08	4-16-2018 / 15:30	Disposable Bailer	VOC (8260)

SECTION 4 - WATER QUALITY DATA							
SWL (FT)	TEMP (°C)	pH	CONDUCTIVITY (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	ORP (mV)	VISUAL
5.98	10.9	7.35	1.115	96.4	6.70	3.5	Turbid

N/M = Not Measured  
 ND = Not Detected



**APPENDIX E**

**Pre-Development Assessment Geotechnical Report**



# Foundation Design, P.C.

SOIL • BEDROCK • GROUNDWATER

June 20, 2019

Day Environmental, Inc.  
1563 Lyell Avenue  
Rochester, New York 14606

Attention: Mr. Jeffrey A. Danzinger

Reference: Bullshead High Priority Sub-Area North - Proposed Mixed Use Development  
Rochester, New York  
Pre-development Assessment, 4403.0

Dear Mr. Danzinger:

This report summarizes our Pre-development Assessment for the mixed use development on multiple parcels on Silver Street, Kensington Street, Brown Street, West Main Street, and York Street in Rochester, New York. We understand that the City of Rochester intends to have commercial buildings lining West Main Street, with one or more commercial buildings and paved parking lots to the north. Conceptually, the buildings will be two-story, slab-on-grade structures; the southern building may be notched into the site, with at-grade entrance at differing elevations on the north and south sides. We base this preliminary assessment on our review of U.S.G.S. and N.Y.S.D.O.T. topographic and geologic mapping; EDR/Sanborn Fire Insurance mapping; previous subsurface exploration, new soil probe, test pit, and test boring exploration; laboratory test results; and consultation with the design team. Day Environmental, Inc. (DAY) commissioned this study on behalf of the City of Rochester. We intend this report for use exclusively on this project.

The Bullshead High Priority Sub-Area North lies north of West Main Street in Rochester, New York. A *General Location Plan* on 2016 U.S.G.S. topographic mapping is attached to this report. The development is generally bounded by York Street on the west, Silver Street, Brown Street and

Day Environmental, Inc.  
June 20, 2019  
Page 2

Kensington Street to the north and east (refer to Figure 1). Ruby Place, a small alley, extends into the parcel off York Street. It lies between a residential neighborhood and commercial buildings along West Main Street.

The site includes 28 different parcels (refer to Figure 1). As part of this investigation, we reviewed EDR/Sanborn Fire Insurance mapping and 1910 City of Rochester Plat mapping by Hopkins. This mapping shows old building footprints previously located on the parcel(s) (see 1910 mapping enclosed). These parcels were formerly developed by residential housing and commercial buildings. The residential homes and commercial buildings likely had basements and/or split level entrances. These structures were demolished at various times and by various contractors.

The recent exploration program consisted of 25 test pits, twenty-seven soil probes, and eight soil/rock borings at locations agreed upon in advanced between DAY and Foundation Design, P.C. DAY established the investigation locations in the field. An *Investigation Locations* map, showing the recent test pit, soil probe and soil/rock boring locations, and copies of the DAY logs are attached to this report.

Nature's Way excavated test pits TP-01 through TP-25 on February 15, February 16, and April 20, 2018. They provided a Komatsu PC40R mini-excavator for the test pit work. Your staff logged the subsurface profiles. Our staff spot checked the test pit excavations to verify that adequate geotechnical design information was being recorded. The test pit excavations ranged from 3.5 to 10.0 feet deep.

Nature's Way performed soil probes TB-01 through TB-24 between February 12 and February 13, 2018, returning to the site on March 1, 2018 to perform soil probes TB-25, TB-26, and TB-27. For



Day Environmental, Inc.  
June 20, 2019  
Page 3

TB-01 through TB-24, they provided a Geoprobe direct push unit and a four foot long macro-core barrel was used to recover the soil samples. For TB-25 to TB-27, they provided a rotary drill, recovering two-foot long SPT soil samples. Your staff logged the subsurface profiles. Our staff spot checked the soil probe sampling to verify that adequate geotechnical design information was being recorded. The soil probes ranged from 3.0 to 15.8 feet deep.

Nature's Way performed test borings at MW-01 through MW-08. They advanced the borings using hollow stem auger casings, recovering SPT soil samples continuously to auger refusal. The drillers used compressed air to recover the ten foot rock cores. Your staff logged the subsurface profiles. Our staff spot checked the soil probe sampling to verify that adequate geotechnical design information was being recorded.

Other soil information was available for our review for this report. This information included the following soil probe data; locations are added to the *Investigation Locations* mapping.

- 2017 Day Environmental, Inc. soil probes TB-1 through TB-4 performed at 5 Kensington Street.
- 2017 Day Environmental, Inc. soil probes TB-1 through TB-4 performed at 50 York Street.

The following interpretations of the soil, bedrock, and groundwater conditions are based on widely spaced test pits, soil probes, and rock cores; our site observations; and prior work in the area. Variations from the inferred subsurface profile are possible, especially on this filled and previously disturbed site. See the logs attached for soil descriptions at the test locations. Call us immediately if such variations are found during construction so we may evaluate the impact on our recommendations, the design plans, and the specifications.

Day Environmental, Inc.  
June 20, 2019  
Page 4

A typical subsurface profile is expected to consist of fill material over old marsh deposits or glacial till, then bedrock. The fill material encountered is highly variable across the parcel and has likely been placed at different times. We found areas where 'clean' earth, generally free of debris; these areas are limited and tend to be within recently backfilled basements. In other locations, the fills are of marginal to poor quality, where earth fill is mixed with up to ten percent building debris. Older fill deposits contain very poor quality fills material, with 40 to 60 percent building debris (concrete, brick, metal). A large area in the center of the site (Lot 42 York Street) contains very poor quality loose ash/cinder laden fill material. The fills extend up to 11 feet deep; we believe that old foundation walls and basement floor slabs were encountered at the bottom of the fill at several of the old building locations.

Old marsh deposits underlie the fill in the center of the parcel. This formation consists of soft organic silts under the fills at TP-02, TP-14, TB-02, TB-06, TB-14, and TB-21; we suspect that this layer is intermixed with the fill at other locations. In general, this formation extended to the bedrock surface, where present.

The underlying soils consist of a loose to firm silt and sand (glacial lake deposit) and/or a firm to dense red-brown silty sand with gravel, a glacial till formation. These layers tend to be less than four feet thick. The till formation contains cobble and boulder size bedrock fragments.

Several of the soil probes and the eight test borings were advanced to the bedrock surface. We identified the bedrock as the Lockport Group of Formations (aka Eramosa Formation). These formations consists of hard, massive dolomites. Auger/macro-core sampler refusal occurred at depths ranging from 3.9 to 15.8 feet below grade (between elevation 523 and 538).



Day Environmental, Inc.  
June 20, 2019  
Page 5

A large step occurs in the bedrock close to West Main Street. The triangular parcel at 842-848 West Main Street has bedrock within five feet of the surface. Bedrock is shallow north of the RRHS/St. Mary's Hospital facility. Yet, on the lower 42 York Street parcel, bedrock is over 10 feet below grade, resulting in a 20 foot (or more) transition in the bedrock surface.

Where bedrock was cored, the rock contained high and low angle fractures and was pitted with calcite-rich vugs. The RQD measurements of the rock cores ranged from 45 to 85 percent, slightly lower than normal for this formation. The percent recovered ranged from 94 to 100 percent, within the typical values expected for the formation.

Groundwater levels were documented in the monitoring wells (MW-locations) installed in the overburden and bedrock. A *Potentiometric Groundwater Contour Map*, showing the water surface elevations and flow direction, is enclosed. The bedrock surface drops from elevation 537 near West Main Street to elevation 531 along Ruby Place.

We offer the following thoughts as you proceed with your conceptual planning:

- We conclude that the in-place fill is not suitable to support the foundations or floors for the new structure(s). The variable fill quality will result in erratic amounts of settlement as the fill continues to consolidate under its own weight. Organic matter within the fill will decompose with time, resulting in more settlement.

If constructed over this fill material, it is our opinion that floors and foundations would settle. This would result in unacceptable amounts of distress in masonry walls and building framing. Similar problems would be experienced by floors constructed over the fill. Floors would settle erratically, resulting in wavy, uneven, settled, and severely cracked surfaces.

- Depending on site grades and finished floor grades, appropriate foundation approaches will vary. For conceptual planning, we suggest locating the commercial buildings along West Main Street and designing the Police Station as a free standing structure, located as far

north on the parcel as possible. Under this approach, we believe that removal of the in-place fill material and replacement with imported structure fill would be required for the building areas.

Any structure located in the center of the parcel (i.e., into the filled portion of 42 York Street) will require a deep foundation solution due to the highly compressible ash fill present. If an interconnected structure is used, foundations for the commercial building may require dropping the foundations to bear on bedrock to control differential settlement between spread footing supported commercial building and pile-supported Police Station.

It is recommended that the bedrock surface elevations/refusal depths at the test hole locations be reviewed when establishing level floor grade for the commercial building along West Main Street. Bedrock conflicts are possible. If bedrock is encountered, hoe-ramming or blasting would be required to remove the bedrock.

- Where the fill is completely removed and replaced from building areas, standard slab-on-grade construction can be utilized. In areas where deep foundations are used to span over the in-place fill, structural floor slabs will be required, supported by deep foundations and grade beams. Where a structural slab is used, plan to hang the sub-floor utilities from the bottom of the structural slab.
- NYS Building Code identifies various seismic design criteria for this project. We recommend using a Site Classification of D (Stiff Soil Profile). Based on the ASCE 7-10 guidelines, we recommend using the following seismic design parameters for this Risk Category IV structure.

<b>Table No. 1 – Seismic Design Parameters – ASCE 7-10</b>					
<b>Spectral Response Acceleration</b>		<b>Soil Factors</b>		<b>Design Spectral Response Acceleration</b>	
<b>S<sub>s</sub></b>	<b>S<sub>1</sub></b>	<b>S<sub>MS</sub></b>	<b>S<sub>M1</sub></b>	<b>SD<sub>s</sub></b>	<b>SD<sub>1</sub></b>
0.165g	0.060g	0.263g	0.143g	0.176g	0.095g

If you progress your design using ASCE 7-16 guidelines, we recommend using the following seismic design parameters for this Risk Category IV structure.



<b>Table No. 2 – Seismic Design Parameters – ASCE 7-16</b>					
<b>Spectral Response Acceleration</b>		<b>Soil Factors</b>		<b>Design Spectral Response Acceleration</b>	
<b>S<sub>s</sub></b>	<b>S<sub>1</sub></b>	<b>S<sub>MS</sub></b>	<b>S<sub>M1</sub></b>	<b>SD<sub>s</sub></b>	<b>SD<sub>1</sub></b>
0.165g	0.048g	0.259g	0.116g	0.172g	0.077g

- Due to the depth of the in-place fill deposits, removal and replacement of the fill from under pavements is not practical. Since the new pavements will be supported by the in-place fill material, we suggest salvaging material removed from the building areas to raise grades for parking lots. This may require sorting out areas with high brick, ash, concrete, and wood concentrations.

Recognize that where new pavements are constructed over the in-place fill material, wavy, uneven, settled, and severely cracked surfaces are likely to develop long term. We recommend accepting the risk with long-term performance and incorporating measures into the pavement design to mitigate this risk. For conceptual planning, we recommend budgeting based on the Standard and Heavy Duty pavement sections tabulated below.

<b>Table No. 3 - Standard Section</b>		
1.5"	Asphalt Topcoat	NYSDOT Item 403.178902
2.5"	Asphalt Binder	NYSDOT Item 403.138902
12.0"	Crusher-run Stone Subbase	NYSDOT Item 304.12
	Bi-axial Geogrid	Tensar BX-1200
	Subgrade	Approved Proof Roll

<b>Table No. 4 – Heavy Duty Section</b>		
1.5"	Asphalt Topcoat	NYSDOT Item 403.198902
2.5"	Asphalt Binder	NYSDOT Item 403.138902
15.0"	Crusher-run Stone Subbase	NYSDOT Item 304.12
	Bi-axial Geogrid	Tensar BX-1200
	Subgrade	Approved Proof Roll

We recommend sloping both the pavement surface and subgrade at slopes of at least 2.0 percent to facilitate water flow toward the stormwater system and prolong the pavement life. Drainage of the subbase is critical to proper performance of the pavements. Install 25

Day Environmental, Inc.

June 20, 2019

Page 8

foot long weeps off the storm inlets at low points to allow water out of the stone subbase and into the storm water system.

Attached to the end of this text is a Geoprofessional Business Association paper entitled *Important Information about Your Geotechnical Engineering Report* that you should read. It describes how we intend this report to be used and discusses risks and risk allocation. We will continue to work cooperatively with you and other interested parties to achieve win/win solutions.

This concludes our design phase services. We are available to answer questions that you may have about the data or interpretations of the soil, bedrock, and groundwater conditions and to review near-final plans and specifications. We look forward to hearing from you again as the project proceeds toward construction.

Very truly yours,

**FOUNDATION DESIGN, P.C.**



Shawn C. Allen, P.E  
Project Engineer



Jeffrey D. Netzband, P.E., P.G.  
Vice President  
Enc.





# Important Information about This

# Geotechnical-Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

While you cannot eliminate all such risks, you can manage them. The following information is provided to help.

**The Geoprofessional Business Association (GBA) has prepared this advisory to help you – assumedly a client representative – interpret and apply this geotechnical-engineering report as effectively as possible. In that way, clients can benefit from a lowered exposure to the subsurface problems that, for decades, have been a principal cause of construction delays, cost overruns, claims, and disputes. If you have questions or want more information about any of the issues discussed below, contact your GBA-member geotechnical engineer. Active involvement in the Geoprofessional Business Association exposes geotechnical engineers to a wide array of risk-confrontation techniques that can be of genuine benefit for everyone involved with a construction project.**

## **Geotechnical-Engineering Services Are Performed for Specific Purposes, Persons, and Projects**

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical-engineering study conducted for a given civil engineer will not likely meet the needs of a civil-works constructor or even a different civil engineer. Because each geotechnical-engineering study is unique, each geotechnical-engineering report is unique, prepared *solely* for the client. *Those who rely on a geotechnical-engineering report prepared for a different client can be seriously misled.* No one except authorized client representatives should rely on this geotechnical-engineering report without first conferring with the geotechnical engineer who prepared it. *And no one – not even you – should apply this report for any purpose or project except the one originally contemplated.*

## **Read this Report in Full**

Costly problems have occurred because those relying on a geotechnical-engineering report did not read it *in its entirety*. Do not rely on an executive summary. Do not read selected elements only. *Read this report in full.*

## **You Need to Inform Your Geotechnical Engineer about Change**

Your geotechnical engineer considered unique, project-specific factors when designing the study behind this report and developing the confirmation-dependent recommendations the report conveys. A few typical factors include:

- the client's goals, objectives, budget, schedule, and risk-management preferences;
- the general nature of the structure involved, its size, configuration, and performance criteria;
- the structure's location and orientation on the site; and
- other planned or existing site improvements, such as retaining walls, access roads, parking lots, and underground utilities.

Typical changes that could erode the reliability of this report include those that affect:

- the site's size or shape;
- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light-industrial plant to a refrigerated warehouse;
- the elevation, configuration, location, orientation, or weight of the proposed structure;
- the composition of the design team; or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes – even minor ones – and request an assessment of their impact. *The geotechnical engineer who prepared this report cannot accept responsibility or liability for problems that arise because the geotechnical engineer was not informed about developments the engineer otherwise would have considered.*

## **This Report May Not Be Reliable**

*Do not rely on this report* if your geotechnical engineer prepared it:

- for a different client;
- for a different project;
- for a different site (that may or may not include all or a portion of the original site); or
- before important events occurred at the site or adjacent to it; e.g., man-made events like construction or environmental remediation, or natural events like floods, droughts, earthquakes, or groundwater fluctuations.

Note, too, that it could be unwise to rely on a geotechnical-engineering report whose reliability may have been affected by the passage of time, because of factors like changed subsurface conditions; new or modified codes, standards, or regulations; or new techniques or tools. *If your geotechnical engineer has not indicated an "apply-by" date on the report, ask what it should be, and, in general, if you are the least bit uncertain about the continued reliability of this report, contact your geotechnical engineer before applying it.* A minor amount of additional testing or analysis – if any is required at all – could prevent major problems.

## **Most of the "Findings" Related in This Report Are Professional Opinions**

Before construction begins, geotechnical engineers explore a site's subsurface through various sampling and testing procedures. *Geotechnical engineers can observe actual subsurface conditions only at those specific locations where sampling and testing were performed.* The data derived from that sampling and testing were reviewed by your geotechnical engineer, who then applied professional judgment to form opinions about subsurface conditions throughout the site. Actual site-wide-subsurface conditions may differ – maybe significantly – from those indicated in this report. Confront that risk by retaining your geotechnical engineer to serve on the design team from project start to project finish, so the individual can provide informed guidance quickly, whenever needed.



## This Report's Recommendations Are Confirmation-Dependent

The recommendations included in this report – including any options or alternatives – are confirmation-dependent. In other words, *they are not final*, because the geotechnical engineer who developed them relied heavily on judgment and opinion to do so. Your geotechnical engineer can finalize the recommendations *only after observing actual subsurface conditions* revealed during construction. If through observation your geotechnical engineer confirms that the conditions assumed to exist actually do exist, the recommendations can be relied upon, assuming no other changes have occurred. *The geotechnical engineer who prepared this report cannot assume responsibility or liability for confirmation-dependent recommendations if you fail to retain that engineer to perform construction observation.*

## This Report Could Be Misinterpreted

Other design professionals' misinterpretation of geotechnical-engineering reports has resulted in costly problems. Confront that risk by having your geotechnical engineer serve as a full-time member of the design team, to:

- confer with other design-team members,
- help develop specifications,
- review pertinent elements of other design professionals' plans and specifications, and
- be on hand quickly whenever geotechnical-engineering guidance is needed.

You should also confront the risk of constructors misinterpreting this report. Do so by retaining your geotechnical engineer to participate in prebid and preconstruction conferences and to perform construction observation.

## Give Constructors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can shift unanticipated-subsurface-conditions liability to constructors by limiting the information they provide for bid preparation. To help prevent the costly, contentious problems this practice has caused, include the complete geotechnical-engineering report, along with any attachments or appendices, with your contract documents, *but be certain to note conspicuously that you've included the material for informational purposes only.* To avoid misunderstanding, you may also want to note that "informational purposes" means constructors have no right to rely on the interpretations, opinions, conclusions, or recommendations in the report, but they may rely on the factual data relative to the specific times, locations, and depths/elevations referenced. Be certain that constructors know they may learn about specific project requirements, including options selected from the report, *only* from the design drawings and specifications. Remind constructors that they may

perform their own studies if they want to, and *be sure to allow enough time* to permit them to do so. Only then might you be in a position to give constructors the information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions. Conducting prebid and preconstruction conferences can also be valuable in this respect.

## Read Responsibility Provisions Closely

Some client representatives, design professionals, and constructors do not realize that geotechnical engineering is far less exact than other engineering disciplines. That lack of understanding has nurtured unrealistic expectations that have resulted in disappointments, delays, cost overruns, claims, and disputes. To confront that risk, geotechnical engineers commonly include explanatory provisions in their reports. Sometimes labeled "limitations," many of these provisions indicate where geotechnical engineers' responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

## Geoenvironmental Concerns Are Not Covered

The personnel, equipment, and techniques used to perform an environmental study – e.g., a "phase-one" or "phase-two" environmental site assessment – differ significantly from those used to perform a geotechnical-engineering study. For that reason, a geotechnical-engineering report does not usually relate any environmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated subsurface environmental problems have led to project failures.* If you have not yet obtained your own environmental information, ask your geotechnical consultant for risk-management guidance. As a general rule, *do not rely on an environmental report prepared for a different client, site, or project, or that is more than six months old.*

## Obtain Professional Assistance to Deal with Moisture Infiltration and Mold

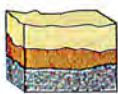
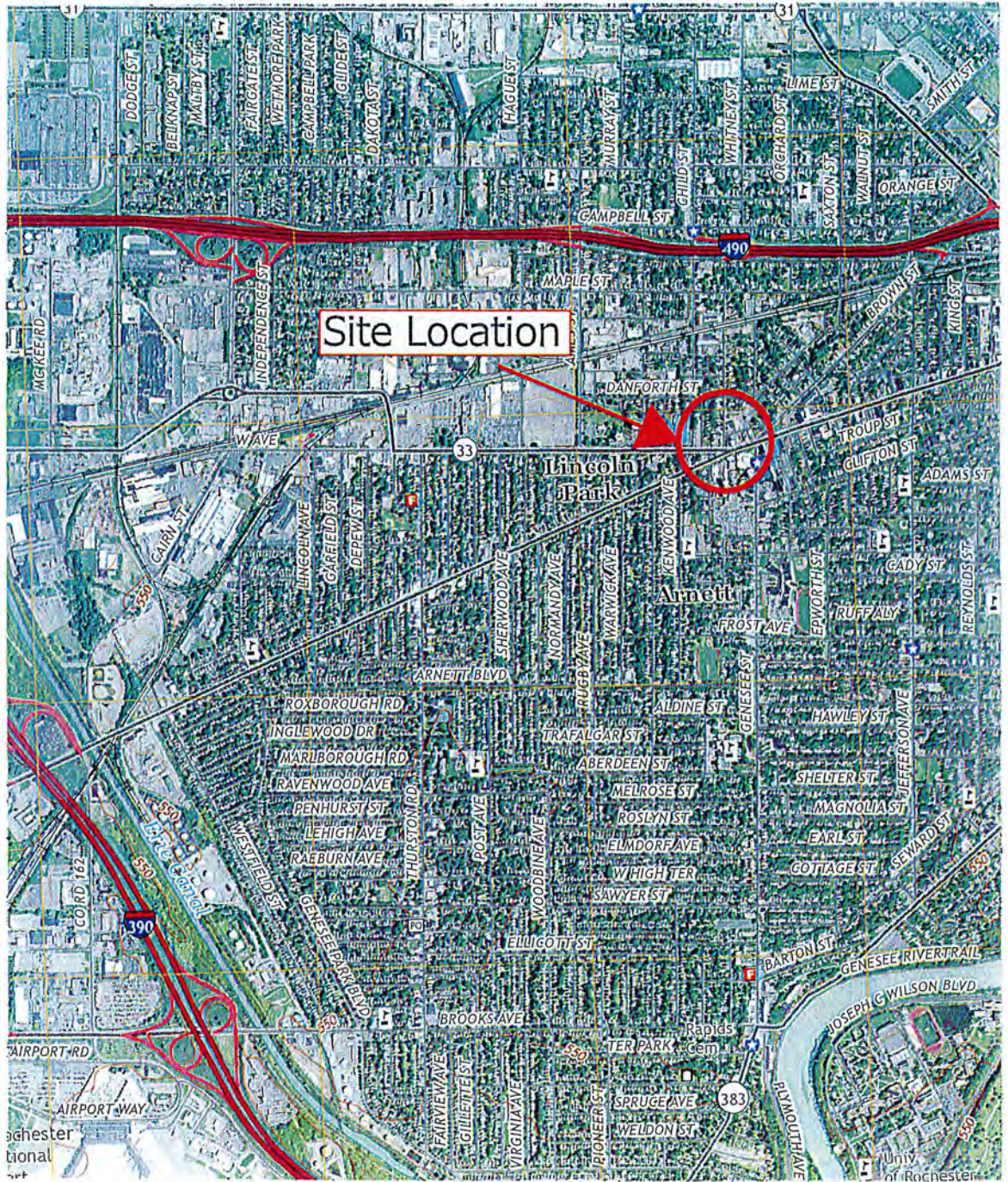
While your geotechnical engineer may have addressed groundwater, water infiltration, or similar issues in this report, none of the engineer's services were designed, conducted, or intended to prevent uncontrolled migration of moisture – including water vapor – from the soil through building slabs and walls and into the building interior, where it can cause mold growth and material-performance deficiencies. Accordingly, *proper implementation of the geotechnical engineer's recommendations will not of itself be sufficient to prevent moisture infiltration.* Confront the risk of moisture infiltration by including building-envelope or mold specialists on the design team. *Geotechnical engineers are not building-envelope or mold specialists.*



Telephone: 301/565-2733

e-mail: [info@geoprofessional.org](mailto:info@geoprofessional.org) [www.geoprofessional.org](http://www.geoprofessional.org)





**Foundation  
Design, P.C.**

46A Sager Drive  
Rochester, New York 14607  
Phone (585) 458-0824  
FAX (585) 458-3323

**Bullshead Brownsfield Re-Development**

West Avenue, Rochester, New York

**General Location Plan**

Adapted from: USGS Topographic Mapping  
*Rochester West* quadrangle dated 2016

CHECKED BY: JDN

DRAWN BY: JAG

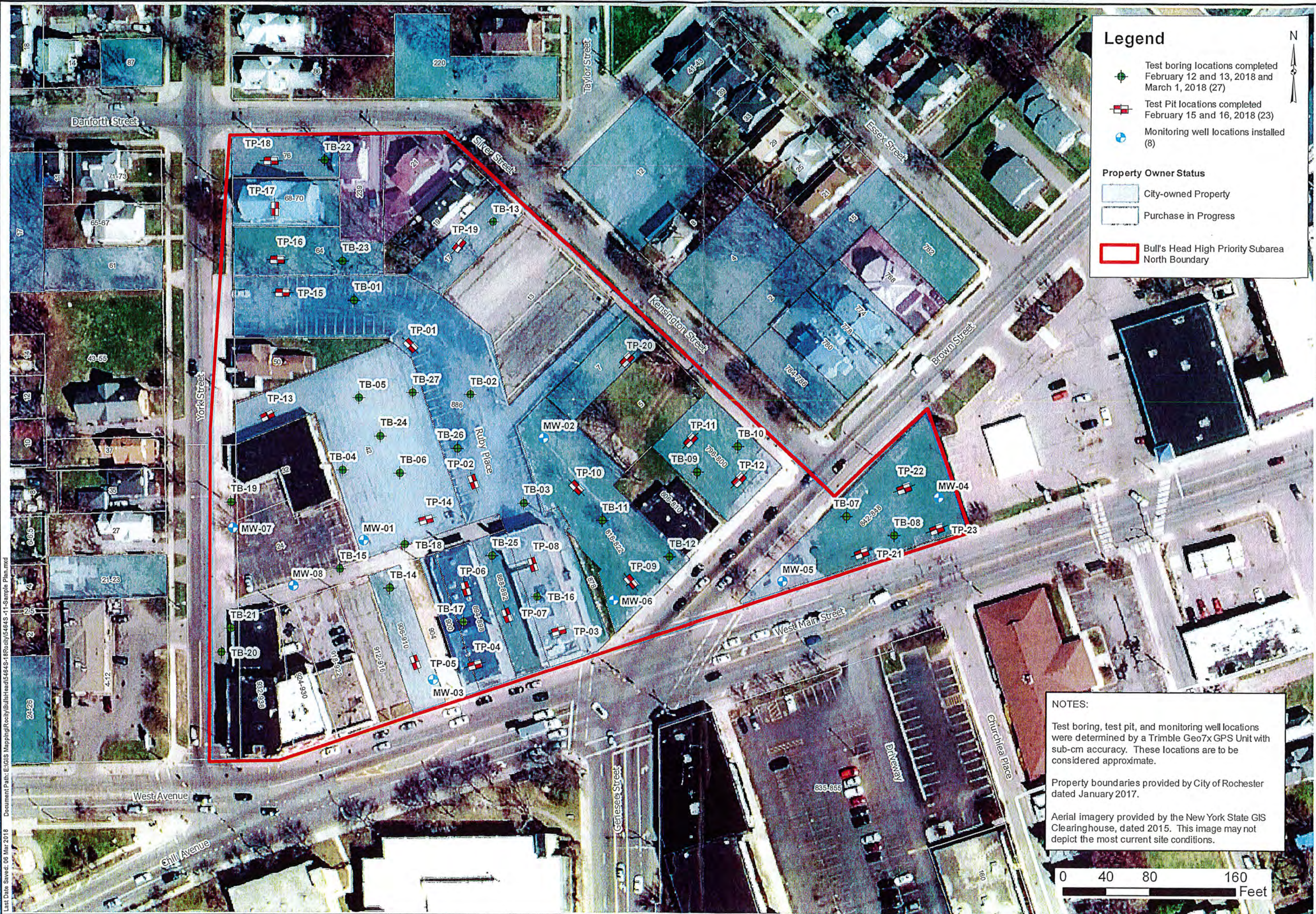
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DATE: 2-15-2018

JOB NO.: 4403.0



Last Date Saved: 06 Mar 2018 Document Path: E:\GIS Mapping\Rocky\BullHead\5464S-18\Rocky\5464S-18-Sample Plan.mxd



### Legend

- Test boring locations completed February 12 and 13, 2018 and March 1, 2018 (27)
- Test Pit locations completed February 15 and 16, 2018 (23)
- Monitoring well locations installed (8)

#### Property Owner Status

- City-owned Property
- Purchase in Progress
- Bull's Head High Priority Subarea North Boundary

DESIGNED BY	JAD	DATE	03-2018
DRAWN BY	CPS	DATE DRAWN	03-2018
SCALE		DATE ISSUED	

**day** DAY ENVIRONMENTAL, INC.  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10470

**NOTES:**

Test boring, test pit, and monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.

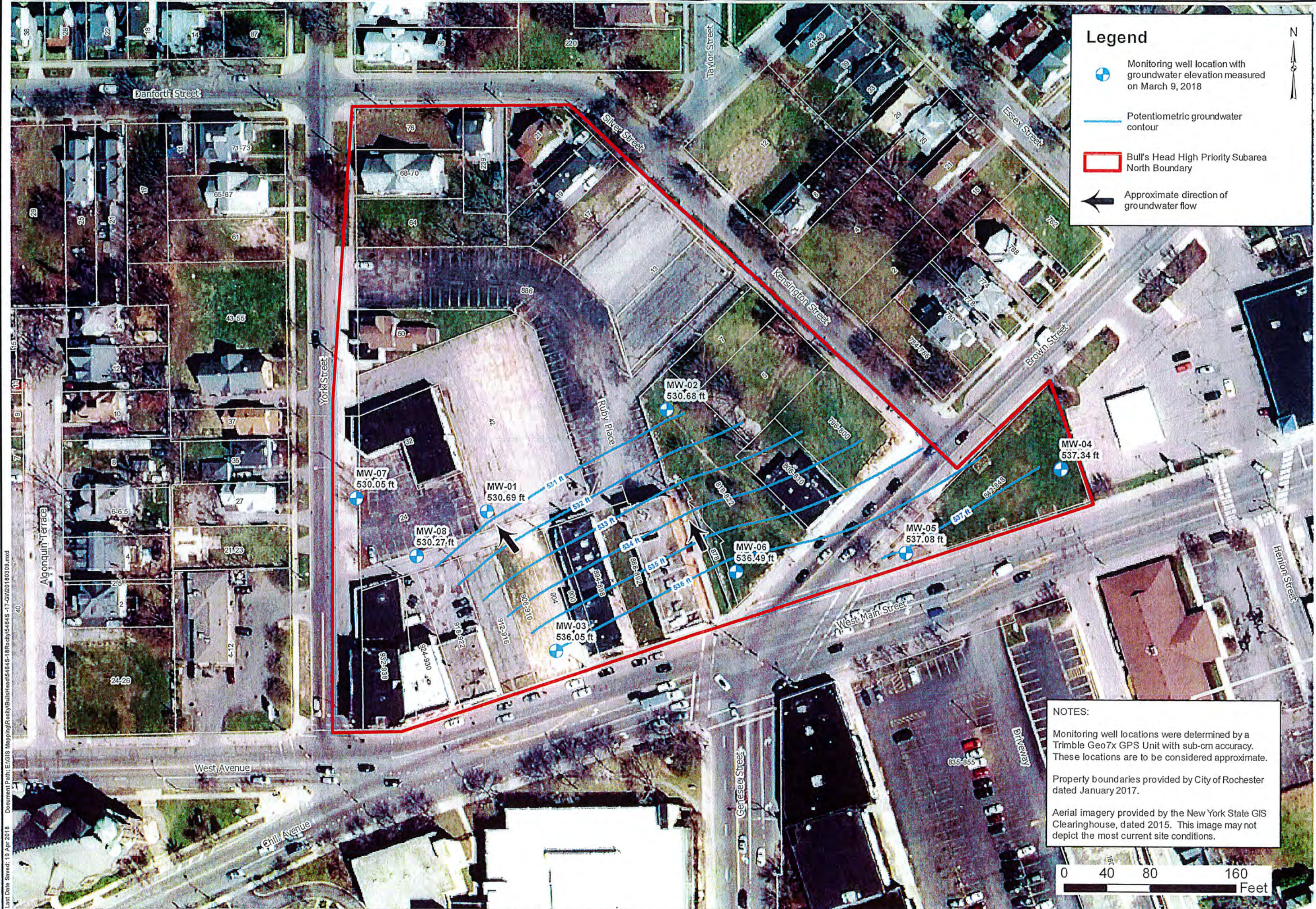
Project Title  
**BULL'S HEAD PROJECT AREA  
 ROCHESTER, NEW YORK**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

Project No.  
 5464S-18

FIGURE 1





### Legend

- Monitoring well location with groundwater elevation measured on March 9, 2018
- Potentiometric groundwater contour
- Bull's Head High Priority Subarea North Boundary
- Approximate direction of groundwater flow

DESIGNED BY	JAD	DATE	04-2018
DRAWN BY	CPS	DATE DRAWN	04-2018
SCALE		DATE ISSUED	

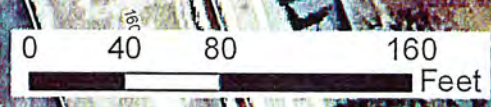
**day** DAY ENVIRONMENTAL, INC.  
 Environmental Consultants  
 Rochester, New York 14606  
 New York New York 14617

**NOTES:**

Monitoring well locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.



Project Title  
**BULL'S HEAD PROJECT AREA  
 ROCHESTER, NEW YORK**

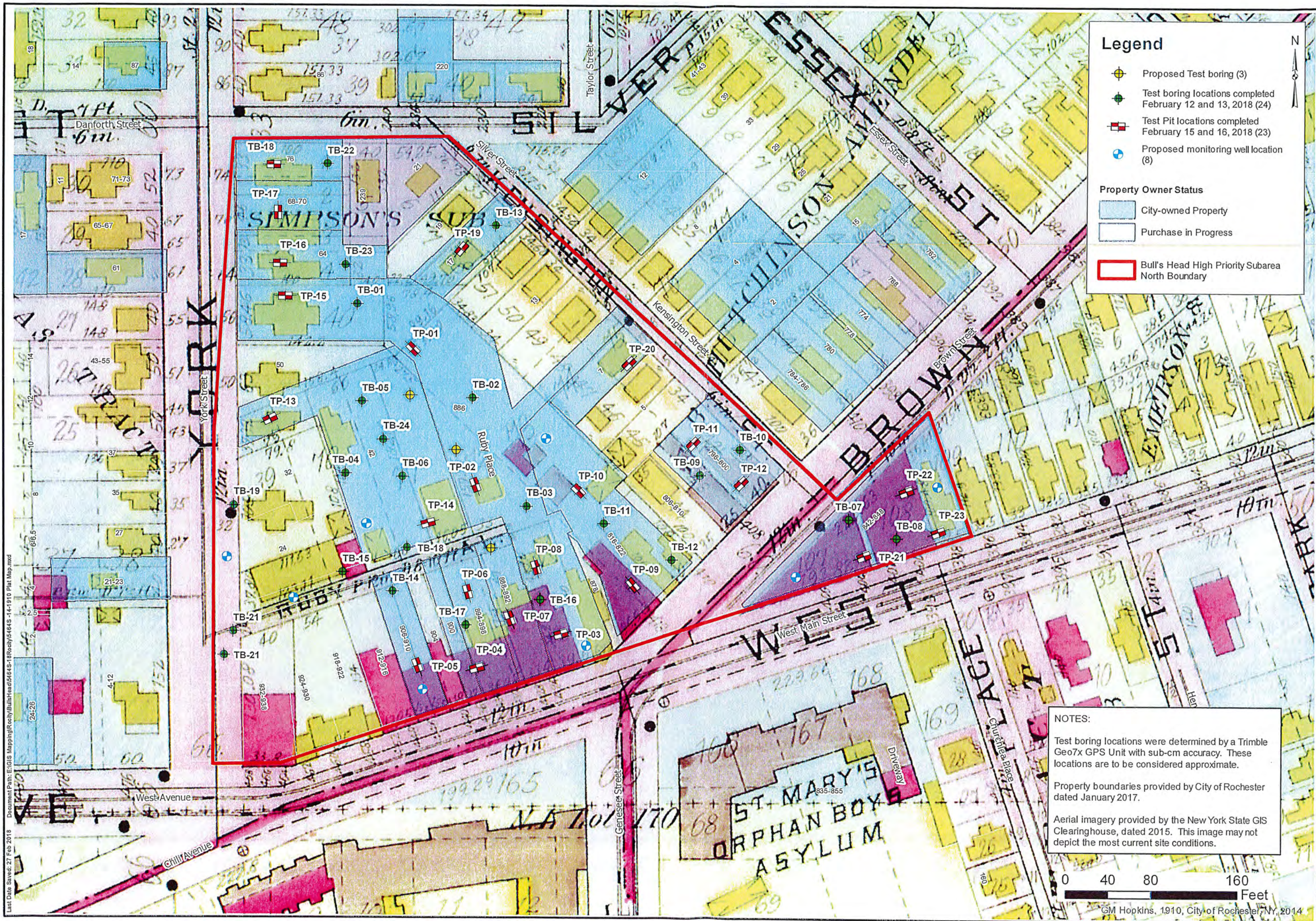
Project No.  
 5464S-18

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION

**FIGURE 1**

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### Legend

- Proposed Test boring (3)
- Test boring locations completed February 12 and 13, 2018 (24)
- Test Pit locations completed February 15 and 16, 2018 (23)
- Proposed monitoring well location (8)

**Property Owner Status**

- City-owned Property
- Purchase in Progress

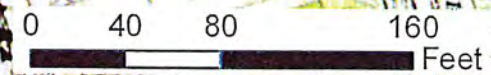
Bull's Head High Priority Subarea North Boundary

**NOTES:**

Test boring locations were determined by a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Property boundaries provided by City of Rochester dated January 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015. This image may not depict the most current site conditions.



DESIGNED BY	JAD	DATE	02-2018
DRAWN BY	CPS	DATE DRAWN	02-2018
SCALE		DATE ISSUED	

**day**  
**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606

Project Title  
**BULL'S HEAD PROJECT AREA**  
**ROCHESTER, NEW YORK**

ENVIRONMENTAL AND GEOPHYSICAL INVESTIGATION  
 Drawing Title

Project No.  
 5464S-18

**FIGURE 1**

Last Date Saved: 27 Feb 2018 Document Path: E:\GIS Mapping\Rochester\Bull's Head\5464S-18\Rocky\5464S-14-1910 Plat Map.mxd

GM Hopkins, 1910, City of Rochester, NY, 2014





DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	5464S-18	TEST PIT TP-01
Project Address:	Bulls Head	
	Rochester, NY	Date: 2/15/2018
DAY Representative:	D. Peck	Test Pit Depth: 9.8'
Contractor:	Nature's Way	Depth to Water: Water Seepage @ 7.0'
Equipment:	Komatsu PC40R Mini-Excavator	

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				6" Asphalt	
2-	0.0			Concrete slab, Crushed Stone, Ash and Brick, Rubble - Bricks and Rocks (FILL) over 50% Debris/Rubble, Sand and Gravel	1- Concrete slab 2-3" thick
3-		S-1			
4-					
5-					
6-	0.0	S-2	1.0	Firm, Tan/Brown, moist SAND, some Silt, little Gravel	
7-	0.				...trace seepage @ 7.0'
8-					...compact below 7.0'
9-	0.0				
10-				Terminated @ 9.8'	
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-01

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 10.0'  
 Depth to Water: Water Seepage @ 9.0'

TEST PIT TP-02

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			5" Asphalt, 3" Sub-base Loose/Firm, Tan/Brown/Gray, Silt and Sand, little Gravel, trace Ash, Asphalt, Bricks, Concrete Blocks, moist (FILL)	1-
2-					2-
3-					3-
4-		S-1			4-
5-				Loose, Black, Ash and Cinder, moist (FILL)	5-
6-	0.0				6-
7-					7-
8-					8-
9-					9-
10-	0.0	S-2		Native Soil, loose/firm, Gray/Brown, SILT and SAND, trace Gravel, trace Organics, wet	10-
11-				Terminated @ 10.0'	11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Active water seeps @ 9.0'

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000, equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-02

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DAY ENVIRONMENTAL, INC.

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Project #:	5464S-18	TEST PIT TP-03
Project Address:	Bulls Head	
	Rochester, NY	Date: 2/15/2018
DAY Representative:	D. Peck	Test Pit Depth: 10.0'
Contractor:	Nature's Way	Depth to Water: Not Encountered
Equipment:	Komatsu PC40R Mini-Excavator	

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes	
1-	0.0	S-1		Grass	Reworked Soil	
2-				Loose, Brown, Silt and Sand, some Gravel, trace Asphalt, Brick, Wood, Plastic, Traffic Cone, Metal, Organics, moist (FILL)		
3-						Some sloughing of sidewalls
4-						
5-	0.0					
6-						Concrete chunks ~2' x 2' Concrete
7-	0.0					
8-						
9-	0.0					
10-	0.0					
11-				Refusal @ 10.0'		
12-						
13-						
14-						
15-						
16-						

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
4) NA = Not Available or Not Applicable

TEST PIT TP-03

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-04

Date: 2/15/2018  
 Test Pit Depth: 7.0'  
 Depth to Water: Not Encountered

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Loose, Brown, Silt and Sand, some Gravel, trace Asphalt, trace Brick, Wood, Organics, Rocks and Concrete, moist (FILL)	
2-					
3-					Tree branch
4-	0.0				
5-	0.0				Bricks
6-		S-1			
7-	0.0				Undulating surface
8-				Refusal @ 7.0'	
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-04

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-05

Page 1 of 1

Date: 2/15/2018  
 Test Pit Depth: 6.2'  
 Depth to Water: Not Encountered

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Grass Firm, Brown, Sand, little Silt, little Gravel, few Cobbles, moist (FILL)	1-
2-					2-
3-	0.0				3-
4-					4-
5-					5-
6-		S-1			6- Smooth hard surface
7-				Refusal @ 6.2'	7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-05

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-06

Date: 2/15/2018

Page 1 of 1

Test Pit Depth: 9.5'

Depth to Water: Wet Soil @ 6.5'

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Loose, Brown, Silt, some Sand, some Gravel, trace Bricks, Cobbles, Wood, Plastic, moist (FILL)	1- Whole Bricks, Rubble
2-				...compact	2-
3-	0.0				3-
4-					4-
5-		S-1		Tan/Brown, compact Silt, some Sand, little Gravel, trace Brick, Organics, Coal or Wood, moist (FILL)	5-
6-	0.0				6-
7-				Firm, Brown/Gray, saturated SAND, some Silt, little Gravel, trace Organics, moist to wet	7-
8-					8- Water @ 8.5'
9-		S-2			9-
10-				Bottom of Hole @ 9.5'	10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

**Notes:**

- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
- 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
- 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
- 4) NA = Not Available or Not Applicable

TEST PIT TP-06

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-07

Date: 2/15/2018

Page 1 of 1

Test Pit Depth: 6.3'

Depth to Water: Not Encountered

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Firm, Brown/Gray, Silt, Sand and Gravel, moist (FILL) ...30-40% Brick (FILL)	1- Whole Bricks, Cobbles
2-	0.0				2-
3-					3-
4-	0.0	S-1	1.7	Firm, Brown/Gray, Silt, Sand, Gravel, trace Brick, Wood, Metal, Plastic, Organic, moist (FILL)	4-
5-					5-
6-	0.0				6- Hard Surface, irregular
7-				Refusal @ 6.3'	7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

## Notes:

- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
- 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
- 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.
- 4) NA = Not Available or Not Applicable

TEST PIT TP-07

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DAY ENVIRONMENTAL, INC.

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	5464S-18	TEST PIT TP-08
Project Address:	Bulls Head	
	Rochester, NY	Date: 2/15/2018
DAY Representative:	D. Peck	Test Pit Depth: 6.8'
Contractor:	Nature's Way	Depth to Water: Not Encountered
Equipment:	Komatsu PC40R Mini-Excavator	Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Firm/Compact, Brown/Gray, Silt and Sand and Gravel, trace Brick, Wood, Plastic, Asphalt, Organics, Concrete Slab, few Cobbles, moist (FILL)	
2-				Few Slabs (less than 2' x 2')	
3-					Sidewalk Slough
4-	0.1		2.5		
5-		S-1			
6-				...Brick	Brick Floor? Somewhat irregular
7-				Refusal @ 6.8'	
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-08

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY Date: 2/15/2018  
 DAY Representative: D. Peck Test Pit Depth: 8.3'  
 Contractor: Nature's Way Depth to Water: Not Encountered  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-09

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Firm/Compact, Tan/Brown, Silt, Sand, Gravel, trace Organics, Asphalt, Brick, Concrete, moist (FILL)	Rubble - Bricks, Concrete Chunks, Cobbles
2-					
3-	0.0				
4-				70% Rubble, Brick, Concrete, Rock (less than 2' size); 30% Sand, Silt, Gravel, trace/little Ash (FILL)	Heavy Rubble, Bricks and Concrete Block
5-					
6-					
7-		S-1			
8-					Smooth bottom, possible floor slab
9-				Refusal @ 8.3'	
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-09

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AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #:	5464S-18	TEST PIT TP-10
Project Address:	Bulls Head	
DAY Representative:	D. Peck	Date: 2/15/2018
Contractor:	Nature's Way	Test Pit Depth: 5.3'
Equipment:	Komatsu PC40R Mini-Excavator	Depth to Water: Not Encountered

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Loose, Gray, 60-70% Rubble, Concrete, Brick, Concrete Slabs (less than 2' size), Cast Iron, some Sand, Gravel, Silt, moist (FILL)	Rubble 1-2' Rock, Concrete, Bricks, Blocks Large Metal Pieces 2-3' long
2-					
3-	0.0				
4-					
5-	0.0	S-1	2.0		Smooth hard surface
6-				Refusal @ 5.3'	
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.5 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-10

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/15/2018  
 Test Pit Depth: 5.0'  
 Depth to Water: Not Encountered

TEST PIT TP-11

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Compact, Brown, Silt, Sand and Gravel, moist (FILL)	
2-				90% Brick, Black Rubble (FILL)	Foundation wall (block), 1' thick concrete to east
3-					
4-					
5-					Smooth hard surface (floor slab?)
6-				Refusal @ 5.0'	
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-11

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-12

Date: 2/15/2018  
 Test Pit Depth: 5.3'  
 Depth to Water: Not Encountered

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Compact, Brown/Gray, Silt, Sand, Gravel, moist (FILL)	
2-				Compact, Brown, Silt and Gravel, 50% Rubble, Concrete Block, Brick, Rock, moist (FILL)	
3-					
4-					
5-	1.7	S-1	2.6		
6-				Bottom of Hole @ 5.3'	Smooth hard surface (floor slab?)
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes:  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-12

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-13

Page 1 of 1

Date: 2/16/2018

Test Pit Depth: 8.5'

Depth to Water: Not Encountered

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0	S-1		Asphalt/Stone	1-
2-	0.0			Yellow/White/Gray Ash (FILL)	2-
3-	0.0			Tan/Brown, Compact SILT, little Sand, little Gravel, moist	3-
4-					4-
5-	0.0				5-
6-					6-
7-	0.0	S-2	1.7	Tan/Brown, SAND, some Silt, trace Gravel, moist	7-
8-					8-
9-				Terminated @ 8.5'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-13

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 8.8'  
 Depth to Water: Water Seep @ 6.5'

TEST PIT TP-14

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Asphalt/Stone Loose, Brown, Sand and Silt, ~40% field Stone debris and Concrete up to 1', moist (FILL)	1-
2-	0.0				2-
3-					3-
4-	0.1	S-1		Gray/Black, Silt, some Clay, trace Brick, moist (FILL)	4-
5-					5-
6-	0.0			Loose, Brown, Sand and Silt, ~50% Rock debris, Ash, moist (FILL)	6-
7-				Firm, Brown/Gray, SAND, some Silt, little Bravel, trace Organics, moist/wet	7- Active water seep @ ~6.5', slight sheen?
8-	0.0	S-2	1.4		8- Hard irregular surface
9-				Refusal @ 8.8'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-14



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 3.5'  
 Depth to Water: Not Encountered

TEST PIT TP-15  
 Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Asphalt and Stone Firm, Tan/Brown, Sand, little Silt, little Gravel, 40% Rock rubble, moist (FILL)	1-
2-					2-
3-	0.0	S-1	2.6		3- Smooth hard surface
4-				Refusal @ 3.5'	4-
5-					5-
6-					6-
7-					7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-15



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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-16

Date: 2/16/2018

Page 1 of 1

Test Pit Depth: 7.3'

Depth to Water: Not Encountered

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Grass Firm, Tan/Brown, SILT, little Sand, trace Gravel, moist	1- Possible Native Material
2-					2-
3-	0.0				3-
4-					4-
5-	0.0	S-1	1.4	...trace Clay	5-
6-					6-
7-					7-
8-				Terminated @ 7.3'	8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-16

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-17

Date: 2/16/2018

Page 1 of 1

Test Pit Depth: 9.4'

Depth to Water: Not Encountered

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Compact, Gray/Black, Silt, little Sand, little Rock, trace Gravel, trace Brick, moist (FILL)	1-
2-					2-
3-	0.0				3-
4-		S-1	1.2		4-
5-	0.0				5-
6-				Tan, fine SAND, little Silt, little Cobbless, moist/wet	6-
7-	0.0				7-
8-					8-
9-	0.0	S-2			9-
10-				Terminated @ 9.4'	10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-17

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY Date: 2/16/2018  
 DAY Representative: D. Peck Test Pit Depth: 6.5'  
 Contractor: Nature's Way Depth to Water: Not Encountered  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-18  
 Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	1.6			Grass, 8" Topsoil	1-
2-				Gray/Brown, moist Sand, Silt and Gravel, trace Bricks (FILL)	2-
3-					3-
4-				...30% Large Rocks and Concrete	4-
5-				Firm, Tan, fine SAND, little Silt, trace Gravel, moist	5-
6-					6-
7-				Terminated @ 6.5'	7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a Min/Rae 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-18

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Project #:	5464S-18	TEST PIT TP-19
Project Address:	Bulls Head	
	Rochester, NY	Date: 2/16/2018
DAY Representative:	D. Peck	Test Pit Depth: 8.8'
Contractor:	Nature's Way	Depth to Water: Not Encountered
Equipment:	Komatsu PC40R Mini-Excavator	Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Brown, Sand and Gravel, moist (FILL)	1-
2-				...40% Rocks and Concrete, trace Brick and Wood (FILL)	2-
3-	0.0	S-1			3-
4-					4-
5-	0.0			Firm, Tan, SAND, little Silt, trace Gravel, trace Organics, moist	5-
6-		S-2			6-
7-	0.0				7-
8-	0.0				8-
9-				Terminated @ 8.8'	9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-19



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 10.0'  
 Depth to Water: Seep @ 9.0'

TEST PIT TP-20  
 Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Grass	
				Firm, Red/Brown, moist Sand (FILL)	1-
2-					2-
				Firm, Gray/Black, moist Silt, little Clay (FILL)	
3-					3-
4-					4-
		S-1	0.9	Loose, Black/Gray, Cinders, Ash, burnt Wood, and Silt, moist (FILL)	
5-					5-
6-					6-
7-					7-
8-					8-
9-	1.5	S-2	1.3		9- Large water seep pumping into hole.
10-				Terminated @ 10.0'	10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.5 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-20



Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY Date: 2/16/2018  
 DAY Representative: D. Peck Test Pit Depth: 6.0'  
 Contractor: Nature's Way Depth to Water: Not Encountered  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-21

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Grass, 6" Topsoil Firm, Tan, moist Silt, some Sand, little Bricks, Concrete, Metal (FILL)	1-
2-					2-
3-	0.0				3-
4-	0.0				4-
5-	0.0	S-1		Firm, Gray/Black, moist SILT, little Sand, trace Organics	5-
6-					6- Hard irregular surface.
7-				Refusal @ 6.0'	7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes:  
 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRao 2000 equipped with a 10.6 eV lamp  
 4) NA = Not Available or Not Applicable

TEST PIT TP-21

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 2/16/2018  
 Test Pit Depth: 5.2'  
 Depth to Water: Not Encountered

TEST PIT TP-22  
 Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-				Firm/Compact, Brown, moist Silt, some Sand, some Gravel and Cobbles, trace Brick and Concrete, large Rocks (FILL)	1-
2-					2-
3-					3-
4-	3.0 15.0 37.7			Silt, Bricks, burnt Wood, petroleum odor (FILL)	Petroleum odor Hard irregular surface
5-				Refusal @ 5.2'	
6-					6-
7-					7-
8-					8-
9-					9-
10-					10-
11-					11-
12-					12-
13-					13-
14-					14-
15-					15-
16-					16-

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

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Project #:	5464S-18	TEST PIT TP-23
Project Address:	Bulls Head	
	Rochester, NY	Date: 2/16/2018
DAY Representative:	D. Peck	Test Pit Depth: 3.5'
Contractor:	Nature's Way	Depth to Water: Not Encountered
Equipment:	Komatsu PC40R Mini-Excavator	

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Firm, Brown, moist Silt, little Sand, trace Clay, trace Bricks (FILL)	
2-					
3-	0.0	S-1			Hard irregular surface
4-				Refusal @ 3.5'	
5-					
6-					
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-23





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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

TEST PIT TP-24

Date: 4/20/2018

Page 1 of 1

Test Pit Depth: 7.0'

Depth to Water: Not Encountered

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Topsoil Loose, Brown, Sand, little Gravel, trace Brick, whole Bricks, Concrete, Plastic (FILL)	
2-	0.0			Brown, compact Silt, Sand, Gravel, occasional whole Bricks, Concrete, Rock pieces, Plastic Sheeting, moist (FILL)	
3-	0.0	S-1	NA		
4-	0.0				Stable sidewalls
5-	0.0			...10% brick (FILL)	
6-	0.0				
7-	0.0			...trace/little Brick and Concrete (FILL)	
8-				Refusal @ 7.0'	Flat hard surface
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-24

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Contractor: Nature's Way  
 Equipment: Komatsu PC40R Mini-Excavator

Date: 4/20/2018  
 Test Pit Depth: 6.0'  
 Depth to Water: Not Encountered

TEST PIT TP-25

Page 1 of 1

Depth (ft)	PID Reading (ppm)	Samples Collected	PID Headspace (ppm)	Sample Description	Notes
1-	0.0			Topsoil	
2-	0.0			Compact, Tan, medium Sand, trace rounded Gravel, moist (FILL)	
3-	0.0	S-1	NA		Stable sidewalls
4-	0.0				
5-	0.0				
6-	0.0			Refusal @ 6.0'	Slightly irregular hard surface
7-					
8-					
9-					
10-					
11-					
12-					
13-					
14-					
15-					
16-					

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to a benzene standard measured in the headspace above the sample using a MiniRae 2000 equipped with a 10.6 eV lamp.  
 4) NA = Not Available or Not Applicable

TEST PIT TP-25

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-01**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 8.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or ROD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt, Stone Road base	
2	NA	S-1	0-4	90	NA	0.4	0.0	Tan, Silt and Gravel (FILL)	
3							0.0		
4							0.0	Brownish/Black, Silt, Topsoil, Ash, Clinder (FILL)	
5							0.0	Brown, SILT, some Sand, little Gravel, moist	
6	NA	S-2	4-8	80	NA	0.0	0.0		
7							0.0	Tan, SAND, little/some Silt, little Gravel, wet @ -6.5'	
8							0.0		
9								Refusal @ 8.0'	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-01**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-02

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 4.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt, Millings/Cinder, Sub-base (FILL)	
2	NA	S-1	0-4	80	NA	0.0	0.0	Firm, Tan/Gray, Sand, little Silt, Gravel, trace Organic (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0	Cinders, Ash, Silt and Gravel (FILL)	
6	NA	S-2	4-8	80	NA	0.0	0.0		
7							0.0		
8							0.0		
9	NA	S-3	8-11	80	NA	0.2	0.0		
10							0.0	Loose, Gray, wet to saturated, SILT, little Sand, trace Organics	
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-02

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-03**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 13.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 3.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Black, Asphalt Millings (FILL)	
2	NA	S-1	0-4	90	NA	1.4	0.0	Firm, Gray/Black, moist/wet Sand, some Silt, little Gravel, little Ash and Glass (FILL)	
3							0.0	Loose/Firm, Gray/Brown, moist/wet Sand, some Silt, trace Gravel, trace Organics (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0	Loose/Firm, Orange/Black, wet Sand, little Gravel, little Cinder, little/some Ash (FILL)	
6	NA	S-2	4-8	80	NA	1.0	0.0		
7							0.0		
8							0.0	layered	
9							0.0		
10	NA	S-3	8-12	80	NA	0.0	0.0	...saturated @ 10.0'	
11							0.1	Compact/Dense, saturated Gray GRAVEL, little Sand, little Silt	
12	NA	S-4	12-13	30	NA	0.0	0.0		
13								Refusal @ 13.0'	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-03**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-04

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 5.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings, Sub-base (FILL)	
2	NA	S-1	0-4	80	NA	0.4	0.0	Loose/Firm, Brown/Gray, moist Sand, little Silt, little Gravel, little Cinder and Ash (FILL)	
3							4.0		
4							0.0	Topsoil 3-4'	
5							0.6	Brown, SILT, some Sand, little Gravel, moist	
6	NA	S-2	4-8	80	NA	0.0	0.0	Loose/Firm, Gray/Brown, wet, SAND and SILT, little Gravel, trace Organics	
7							0.0		
8							0.0		
9	NA	S-3	8-11	80	NA	0.2	0.0		
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-04

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-05**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 9.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 2.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	80	NA	0.0	0.0	fine Sand (FILL)	
3							0.0	buried Topsoil	
4							0.0	Firm, Tan/Brown, wet, SAND, little/some Silt, little Gravel	
5							0.0	Brown, SILT, some Sand, little Gravel, moist	
6	NA	S-2	4-8	100	NA	0.0	0.0		
7							0.0		
8							0.0		
9	NA	S-3	8-9.5	50	NA	0.0	0.0		
10								Refusal @ 9.5'	
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-05**

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Project #: <u>5464S-18</u> Project Address: <u>Bulls Head</u> <u>Rochester, NY</u> DAY Representative: <u>D. Peck</u> Drilling Contractor: <u>Nature's Way</u> Sampling Method: <u>Direct Push</u>	<div style="text-align: right; border: 1px solid black; padding: 2px;"><b>Test Boring TB-06</b></div> <div style="text-align: right; border: 1px solid black; padding: 2px; font-size: small;">Page 1 of 1</div> Ground Elevation: <u>NA</u> Datum: <u>NA</u> Date Started: <u>2/12/2018</u> Date Ended: <u>2/12/2018</u> Borehole Depth: <u>7.5'</u> Borehole Diameter: <u>2.25"</u> Completion Method: <input type="checkbox"/> Well Installed <input type="checkbox"/> Backfilled with Grout <input checked="" type="checkbox"/> Backfilled with Cuttings Water Level: <u>Wet soil at 6.0'</u>
---	---

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	80	NA	0.1	0.0	Sand (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5								Topsoil	
6	NA	S-2	4-7.5	60	NA	0.0		Compact Brown, wet to saturated SAND, some Silt, some Gravel	
7									
8								Refusal @ 7.5'	
9									
10									
11									
12									
13									
14									
15									
16									

**Notes:** 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-06**



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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-07**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 5.8' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 4.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass, Topsoil	
2	NA	S-1	0-4	80	NA	1.2	0.0	Firm, Brown, moist Sand, some Silt, little Gravel, trace Ash, trace Organics (FILL)	
3							0.0	Firm, Brown, moist/wet SAND, little Silt and Gravel (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist (FILL)	
5	NA	S-2	4-5.8		NA	0.8			
6								Refusal @ 5.8'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-07**

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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-08

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 5.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass, Topsoil	
2	NA	S-1	0-4	90	NA	0.3	0.0	Firm, Brown, moist Sand, some Gravel, some Silt, trace Ash, trace Organics, trace brick (FILL)	
3							0.0		
4							0.0		
5	NA	S-2	4-5	50	NA	0.2	0.0	Brown, SILT, some Sand, little Gravel, moist	
6								Refusal @ 5.0'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-08

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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-09**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 6.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	80	NA	0.0	0.0	Firm, Brown, moist Sand, some Silt, little Gravel (FILL)	
3							0.0	Firm, Gray, moist Sand, little Silt, little Gravel, little Concrete, trace Insulation (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-6.3	40	NA	0.0	0.0		
6									
7								Refusal @ 6.3'	
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-09**

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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-10

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 15.8' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 12.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	NA	NA	0.0	0.0	Firm, Brown/Gray, moist Sand, Silt and Gravel, little Ash and Cinder, trace Brick (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	NA	NA	0.2	0.0		
7							0.0		
8							0.0		
9							0.0		
10	NA	S-3	8-12	NA	NA	0.0	0.0		
11							0.0		
12							0.0	...wet/saturated	
13							0.0		
14	NA	S-4	12-15.8	NA	NA	0.2	0.0		
15							0.0		
16							0.0	...Rock fragments	
								Refusal @ 15.8'	

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-10

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Project #: 5484S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-11**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 6.2' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsail	
2	NA	S-1	0-4	80	NA	8.6	0.0	Firm, Brown, moist Sand, Silt and Gravel, trace Organics, Cinder, Wood and Concrete (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-6.2	30	NA	5.4	0.0		
6							0.0	...burnt wood	Refusal on apparent concrete.
7								Refusal @ 6.2'	
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-11**

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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-12**

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 8.2' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topssoil	
2	NA	S-1	0-4	40	NA	6.2	0.0	Firm, Brown, moist Sand and Gravel, little Silt (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8.2	30	NA	1.3	0.0	...Rock fragments (possible cobbles)	
7							0.0		
8								Refusal @ 8.2'	Refusal on apparent concrete.
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-12**

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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-13**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/12/2018 Date Ended: 2/12/2018  
 Borehole Depth: 8.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 3.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	70	NA	1.2	0.0	Firm, Brown, moist/wet SILT and SAND, little Gravel	
3							0.0		
4							0.0		
5							0.0		
6	NA	S-2	4-8	90	NA	5.8	0.0	Brown, SILT, some Sand, little Gravel, moist	
7							0.0		
8	NA	S-3	8-8.3	NA	NA	0.7	0.0	Refusal @ 8.3'	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-13**

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 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-14**

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 9.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Brown, Silt, some Sand, little Gravel, trace Organics (FILL)	
2	NA	S-1	0-4	90	NA	7.0	0.0		
3							0.0	Gray/Black, Ash and Cinders (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.8	...Gravel, trace Bricks	
6	NA	S-2	4-8	70	NA	36.6	1.1		
7							41.0	...Black stain, petroleum odor @ 6.5', Silt and Gravel, wet	
8							4.4		
9	NA	S-3	8-9.5	20	NA	6.2	22.0	...saturated	
10							11.6		
11								Refusal @ 9.5'	
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-14**

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Project #: 5464S-18  
 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-15**

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 8.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 6.5'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
							0.0	Brown/Black, Silt, some Gravel, little Ash and Cinders, moist/wet (FILL)	
2	NA	S-1	0-4	80	NA	2.0	0.0		
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	50	NA	2.6	0.0		
7							0.0	Fine SAND, little Gravel, wet	
8	NA	S-3	8-8.3	NA	NA	0.1	0.0	Saturated	
9								Refusal @ 8.3'	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-15**

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AN AFFILIATE OF DAY ENGINEERING, INC.

Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-16**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 7.8' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Topsoil	
2	NA	S-1	0-4	50	NA	4.4	0.0	Brown, moist Silt, little Sand, little Gravel (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-7.8	NA	NA	2.3	0.0		
7							0.0		
8								Refusal @ 7.8'	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-16**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-17

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 5.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Brown, moist Silt, little Gravel, trace Bricks and Wood (FILL)	
2	NA	S-1	0-4	80	NA	3.7	0.0		
3							0.0		
4							0.0		
5	NA	S-2	4-5.5	NA	NA	3.7	0.0	Brown, SILT, some Sand, little Gravel, moist	
6								Refusal @ 5.5'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-17

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Project #: 5464S-18  
 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-18**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 8.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or ROD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
2	NA	S-1	0-4	80	NA	0.3	0.0	Brown/Gray, Silt, little Gravel, tract Bricks (FILL)	
3							0.0	Gray/Black, Silt, trace Brick and Cinders, moist (FILL)	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	50	NA	1.1	0.0	Brown, SILT and CLAY, trace Gravel, moist	
7							0.0		
8							0.0	Brown, medium to coarse SAND, some Gravel, saturated	
9	NA	S-3	8-11	20	NA	3.4	0.0		
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-18**

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Project #: 5464S-18  
 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-19**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 5.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Concrete Sidewalk	
							0.0	Gray/Brown, Silt, trace Organics (FILL)	
2	NA	S-1	0-4	70	NA	2.2	0.0	Brown, fine Sand (FILL)	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	90	NA	2.6	0.0	SAND, little Silt, little Gravel, moist to wet	
7							0.1		
8							0.1		
9	NA	S-3	8-11	40	NA	3.5	0.0		
10									
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-19**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-20**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 3.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	NA	S-1	0-2.3	80	NA	3.7	0.5	Asphalt and Road-base	
2								Brown/Gray, SILT and GRAVEL, dry, Rock fragments at bottom	
3								Refusal @ 3.0'	
4								Brown, SILT, some Sand, little Gravel, moist	
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-20**

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 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-21

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 5.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								Concrete Sidewalk	
2	NA	S-1	0-4	50	NA	3.1	0.4	Gray/Black, SILT, little Gravel, Rock fragments	
3								Brown, SILT, little Gravel, moist	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-5	NA	NA	*	0.0		* Not enough sample for headspace
6								Refusal @ 5.0'	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-21

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 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

**Test Boring TB-22**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 12.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 9.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass and Topsoil	
2	NA	S-1	0-4	70	NA	NA	0.0	Brown, SAND, some Silt, trace Gravel	
3							0.0	...Fine SAND	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0		
6	NA	S-2	4-8	70	NA	8.1	0.0		
7							0.0		
8							0.0		
9							0.0	Moist/Wet	
10	NA	S-3	8-12	90	NA	7.6	0.0		
11							0.0		
12									
13								Refusal @ 12.0'	
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-22**

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Project #: 5464S-18  
 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-23

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 11.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at 5.0'

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Grass, Topsoil	
							0.0	4" Brick (FILL)	
2	NA	S-1	0-4	70	NA	2.1	0.0	Fine SAND, moist	
3							0.0		
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5							0.0	Moist/Wet	
6	NA	S-2	4-8	NA	NA	1.0	0.0		
7							0.0		
8							0.0	Saturated	
9	NA	S-3	8-11	NA	NA	1.6	0.0		
10							0.0		
11								Refusal @ 11.0'	
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-23

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Project #: 5464S-18  
 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Direct Push

Test Boring TB-24

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/13/2018 Date Ended: 2/13/2018  
 Borehole Depth: 7.2' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Asphalt and Millings	
							0.0	Tan and Black Sand, Ash, Brick (FILL)	
2	NA	S-1	0-4	70	NA	2.4	0.0		
3							0.0	Brown, SILT, little Sand, little Gravel, moist	
4							0.0	Brown, SILT, some Sand, little Gravel, moist	
5	NA	S-2	4-7.2	30	NA	0.7	0.0		
6									
7								Refusal @ 7.2'	
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-24

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Split Spoon

Test Boring TB-25

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 3/1/2018 Date Ended: 3/1/2018  
 Borehole Depth: 11.7' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: 9.2 and rising (3/1/18, 9:15 AM)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	10	S-1	0-2	60	34	0.0	0.0	Tan/Brown, Silt, little Sand, little Gravel, trace Brick, moist (FILL)	
	20						0.0		
	14								
2	11	S-2	2-4	5	8	0.0	0.0		
	5								
3	4	S-3	4-6	30	4	0.0	0.0	Brown, Silt, little Clay, trace Sand, trace Ash, burnt Wood, Porcelain, moist (FILL)	
	4						0.0		
4	4	S-4	6-8	30	5	0.0	0.0		
	1								
5	2	S-5	8-10	20	9	0.0	0.0	Gray, SILT, little Gravel, moist/wet	
	2						0.0		
6	2	S-6	10-11.4	NA	NA	0.0	0.0	Tan/Gray, GRAVEL and SILT, little Sand, saturated	
	1								
7	1	S-7	11-12.4	NA	NA	0.0	0.0	Auger Refusal @ 11.7'	
	4								
8	3	S-8	12-13.4	NA	NA	0.0	0.0		
	1								
9	1	S-9	13-14.4	NA	NA	0.0	0.0		
	4								
10	5	S-10	14-15.4	NA	NA	0.0	0.0		
	17								
11	17	S-11	15-16.4	NA	NA	0.0	0.0		
	1								
12	4	S-12	16-17.4	NA	NA	0.0	0.0		
	50/4								
13	1	S-13	17-18.4	NA	NA	0.0	0.0		
	4								
14	1	S-14	18-19.4	NA	NA	0.0	0.0		
	4								
15	1	S-15	19-20.4	NA	NA	0.0	0.0		
	4								
16	1	S-16	20-21.4	NA	NA	0.0	0.0		
	4								

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-25

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: Split Spoon

**Test Boring TB-26**

Ground Elevation: NA Datum: NA  
 Date Started: 3/1/2018 Date Ended: 3/1/2018  
 Borehole Depth: 10.4' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: 9.6 at boring completion

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	14	S-1	0-2	30	23	0.0	0.0	Asphalt stone base	
	8							Tan, Sand (FILL)	
2	9	S-2	2-4	40	5	0.0	0.0	Tan/Brown, Silt and Sand, trace Gravel, trace Cinder (FILL)	
	3								
3	2	S-3	4-6	40	3	0.0	0.0	Gray/Black, Silt, moist (FILL)	
	2								
4	2	S-4	6-8	40	4	0.0	0.0	Tan, SILT, some Sand, trace Gravel, moist	
	2								
5	1	S-5	8-10	30	6	0.0	0.0	...moist/wet	
	2								
6	1	S-6	10-10.4	10	NA	0.0	0.0	...Gray GRAVEL and SILT, saturated	
	2								
7								Auger refusal @ 10.4'	
8									
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-26**

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Project #: <u>5464S-18</u> Project Address: <u>Bulls Head</u> <u>Rochester, NY</u> DAY Representative: <u>D. Peck</u> Drilling Contractor: <u>Nature's Way</u> Sampling Method: <u>Split Spoon</u>	<div style="text-align: right; border: 1px solid black; padding: 2px; display: inline-block;"><b>Test Boring TB-27</b></div> <div style="text-align: right; border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Page 1 of 1</div> Ground Elevation: <u>NA</u> Datum: <u>NA</u> Date Started: <u>3/1/2018</u> Date Ended: <u>3/1/2018</u> Borehole Depth: <u>8.8'</u> Borehole Diameter: <u>8"</u> Completion Method: <input type="checkbox"/> Well Installed <input type="checkbox"/> Backfilled with Grout <input checked="" type="checkbox"/> Backfilled with Cuttings Water Level: <u>None</u>
---	---

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	6	S-1	0-2	40	8	0.0	0.0	Asphalt and stone base	
	2						0.0	Tan, Sand (FILL)	
	3						0.0	Tan/Brown, Silt, little Sand, trace Gravel, moist (FILL)	
2	2	S-2	2-4	60	10	0.0	0.0		
	4						0.0		
	6						0.0		
3	9	S-3	4-6	70	24	0.0	0.0		
	10						0.0		
	14						0.0		
4	15	S-4	6-8	70	31	0.0	0.0		
	11						0.0		
	14						0.0		
5	17	S-5	8-8.8	30	NA	0.0	0.0		
	18						0.0		
	15						0.0		
9	50/3							Auger refusal @ 8.8'	
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-27**





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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

Test Boring MW-01

Page 1 of 1

Ground Elevation: 536.39 Datum: Rochester City Datum  
 Date Started: 2/20/2018 Date Ended: 2/20/2018  
 Borehole Depth: 11.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 5.14' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	8	S-1	0-2	20	17	6.7	0.0	Asphalt	
							Loose, Brown, Silt, little Gravel, trace Brick, moist (FILL)		
	0.0								
2	6	S-2	2-4	20	3	6.0	0.0	...Ash (FILL)	
	0.0								
3	2	S-3	4-6	30	2	4.4	0.0	Loose, Brown/Gray, Silt, little Sand, little Clay, trace Wood, moist/wet (FILL)	
	0.0								
4	1	S-4	6-8	50	3	5.4	0.0		
	0.0								
5	1	S-5	8-10	10	16	6.4	0.0	...rock fragments, well/saturated	Poor recovery
	0.0								
6	0	S-6	10-10.7	10	NA	6.8	0.0		*PID headspace readings are suspect - no filter on P very similar readings, no other field evidence
	0.0								
7	1	50/2							
	0.0								
8	1								
	0.0								
9	1								
	0.0								
10	1								
	0.0								
11	1								
	0.0								
12	1								
	0.0								
13	1								
	0.0								
14	1								
	0.0								
15	1								
	0.0								
16	1								
	0.0								
								Auger refusal @ 11.0'	

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-01

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, NX-Core

**Test Boring MW-02**

Page 1 of 2

Ground Elevation: 539.25 Datum: Rochester City Datum  
 Date Started: 2/21/2018 Date Ended: 2/21/2018  
 Borehole Depth: 19.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 8.28' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	3						0.0	Grass, 3" Topsoil	
	6	S-1	0-2	30	11	0.0		Cinders, Asphalt, trace Brick (FILL)	
	5						0.0	Loose, Brown, Silt, little Sand, trace Brick, moist (FILL)	
2	3								
	3	S-2	2-4	50	5	0.0			
3	3						0.0		
	2						0.0	...Loose, Gray/Yellow/Black, Ash, moist (FILL)	
4	2						0.0		
	1	S-3	4-6	30	2	0.0			
5	1						0.0		
	1						0.0		
6	1						0.0		
	1	S-4	6-8	40	1	0.0			
7	0						0.0		
	1						0.0		
8	1						0.0		
	0	S-5	8-10	20	1	0.0			
9	1						0.0		
	6						0.0	...Loose, Gray/Black, Gravel, Wood, Porcelain, wet/saturated (FILL)	
10	10						0.0	Loose, Gray/Tan, SILT, little Clay, trace Sand, wet/saturated	
	6	S-6	10-12	20	8	0.0			
11	2						0.0		
	2						0.0		
12	4						0.0	...Rock fragments	
	14	S-7	12-13.2	20	NA	0.0			
13	50/2						0.0		Auger refusal @ 13.0'; water @ 8.6'
	14						0.0		
14	NA	C-1	13.5-15.5	46	38	NA	NA	Massive Gray Dolomite Limestone, several pits and vugs with secondary calcite in top two feet, with horizontal and low angle fractures	Core block @ 15.0'
	15						NA		
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-02**

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Project #: 5484S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, NX-Core

Ground Elevation: 539.25 Datum: Rochester City Datum  
 Date Started: 2/21/2018 Date Ended: 2/21/2018  
 Borehole Depth: 19.0' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 8.28 (3/9/18)

Test Boring MW-02

Page 2 of 2

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
17	NA	C-2	15.5-19.0	98	85	NA	NA		
18									
19								Bottom of Hole @ 19.0'	
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-02

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

Test Boring MW-03

Page 1 of 1

Ground Elevation: 543.70 Datum: Rochester City Datum  
 Date Started: 2/22/2018 Date Ended: 2/22/2018  
 Borehole Depth: 14.4' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 7.35' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2	S-1	0-2	30	9	NA	0.0	Loose, Brown/Gray, medium Sand, little Gravel, moist (FILL)	
	4						0.0		
	5						0.0		
2	10	S-2	2-4	50	9	NA	0.0		
	4						0.0		
3	4	S-3	4-5.4	30	10	NA	0.0	...Dolostone? Rock fragment in tip of spoon	Auger refusal @ 5.4'
	5						0.0		
4	4	C-1	5.4-9.4	37	NA	NA	0.0	Very broken up rock core. A few 3" pieces of massive Dolomite, followed by a few small 1-2" concrete pieces.	
	2						0.0		
5	4	C-2	9.4-14.4	100	86	NA	0.0	Augered through apparent FILL with possible concrete floor slab.	
	6						0.0		
6	20	C-2	9.4-14.4	100	86	NA	0.0	Massive Gray Dolomite Limestone pits and Vugs in top one foot, horizontal and low angle fractures	
	6						0.0		
7									
8									
9									
10									
11									
12									
13									
14									
15								Bottom of Hole @ 14.4'	
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-03

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

Ground Elevation: 543.51 Datum: Rochester City Datum Page 1 of 1  
 Date Started: 2/23/2018 Date Ended: 2/23/2018  
 Borehole Depth: 8.9' Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 5.90 (3/9/18)

Test Boring MW-04

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2						0.0	Grass	
	6	S-1	0-2	20	18	NA		Brown, Silt and Sand, trace Organics, moist (FILL)	
	12						0.0		
	14								
2							0.0	Gray/Brown, SILT and SAND, little Gravel, Dolomite Rock fragments in end of spoon,	
	18	S-2	2-3.2	40	NA	NA		moist	
3	50/2						0.0		Auger refusal @ 3.9'
4								Massive Gray Dolomite Limestone, numerous horizontal and low angle fractures	
5									
6	NA	C-1	3.9-8.9	100	45	NA	NA	...pits and vugs with secondary calcite mineralization	
7									
8									
9									
10								Bottom of Hole @ 8.9'	
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-04

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Project #: <u>5464S-18</u> Project Address: <u>Bulls Head</u> <u>Rochester, NY</u> DAY Representative: <u>D. Peck</u> Drilling Contractor: <u>Nature's Way</u> Sampling Method: <u>2" Split Spoon, HQ-Core</u>	<div style="text-align: right; border: 1px solid black; padding: 2px;"><b>Test Boring MW-05</b></div> Ground Elevation: <u>544.32</u> Datum: <u>Rochester City Datum</u> <span style="float: right;">Page 1 of 1</span> Date Started: <u>2/26/2018</u> Date Ended: <u>2/26/2018</u> Borehole Depth: <u>12.0'</u> Borehole Diameter: <u>8"</u> Completion Method: <input checked="" type="checkbox"/> Well Installed <input type="checkbox"/> Backfilled with Grout <input type="checkbox"/> Backfilled with Cuttings Water Level (Date): <u>6.97 (3/9/18)</u>
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Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	5	S-1	0-2	50	19	0.0	0.0	Concrete Sidewalk	
	15						0.0	Compact, Brown, Sand, little Gravel, trace Brick, moist (FILL)	
2	14	S-2	2-4	40	28	0.0	0.0		
	6						0.0		
3	12	S-3	4-6	20	52	NA	0.0	...some Bricks (FILL)	
	16						0.0		
4	15	S-4	6-6.4	10	NA	NA	NA		
	29						NA		
5	23	C-1	6.4-12.0	95	82	NA	NA		
	15						NA		
6	5	C-1	6.4-12.0	95	82	NA	NA		
	50/2						NA		
7		C-1	6.4-12.0	95	82	NA	NA	Auger refusal @ 6.4'	
							NA		
8		C-1	6.4-12.0	95	82	NA	NA	Massive Gray Dolomite Limestone	
							NA		
9		C-1	6.4-12.0	95	82	NA	NA		
							NA		
10		C-1	6.4-12.0	95	82	NA	NA	...Calcite-filled vugs from 10.0' to 12.0'	
							NA		
11		C-1	6.4-12.0	95	82	NA	NA		
							NA		
12		C-1	6.4-12.0	95	82	NA	NA		
							NA		
13		C-1	6.4-12.0	95	82	NA	NA	Bottom of Hole @ 12.0'	
							NA		
14		C-1	6.4-12.0	95	82	NA	NA		
							NA		
15		C-1	6.4-12.0	95	82	NA	NA		
							NA		
16		C-1	6.4-12.0	95	82	NA	NA		
							NA		

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

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Project #: 5464S-18  
 Project Address: Bulls Head  
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 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

**Test Boring MW-06**

Page 1 of 1

Ground Elevation: 544.92 Datum: Rochester City Datum  
 Date Started: 2/27/2018 Date Ended: 2/27/2018  
 Borehole Depth: 14.4 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 8.15' (3/9/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1								No Samples - see log for MW-06A	
2									
3									
4									
5									
6									
7									
8									
9									
10								Medium Hard, massive Gray Dolomitic Limestone with horizontal/low angle fractures with mud partings. Calcite filled vugs in top 1.5'	Auger refusal @ 9.4'
12	NA	C-1	9.4-14.4	95	72	NA	NA		
15								Bottom of Hole @ 14.4'	
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring MW-06**

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Project #: 5464S-18  
 Project Address: Bulls Head  
Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon

Test Boring MW-06A

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 2/26/2018 Date Ended: 2/26/2018  
 Borehole Depth: 9.1 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): wet soil @ 8.0' (2/26/18)

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	2						0.0	Grass and Topsoil	
	15	S-1	0-2	40	28	0.0	0.0	Tan, Sand, some Rock fragments (FILL)	
	13						0.0		
2	6						0.0	...trace Bricks (FILL)	
3	50/2	S-2	2-2.7	20	NA	0.0	0.0		
4	1						0.0	...Bricks, Wood, Porcelain (FILL)	
5	4	S-3	4-6	20	8	0.0	0.0		
	4						0.0		
6	3						0.0	...little Concrete (FILL)	
7	23	S-4	6-8	20	23	0.0	0.0	...Metal Wire (FILL)	
	9						0.0		
8	14						0.0		
	10						0.0		
9	16	S-5	8-9.1	20	NA	0.0	0.0	Tan, SAND and GRAVEL, little Silt, wet	
	24						0.0	Tan, fine SAND, wet	
	50/1						0.0		
10								Refusal @ 9.1'	
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-06A

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Project #: 5464S-18  
 Project Address: Bulls Head  
 Rochester, NY  
 DAY Representative: D. Peck  
 Drilling Contractor: Nature's Way  
 Sampling Method: 2" Split Spoon, HQ-Core

Ground Elevation: 536.66 Datum: Rochester City Datum  
 Date Started: 2/28/2018 Date Ended: 2/28/2018  
 Borehole Depth: 15.7 Borehole Diameter: 8"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level (Date): 6.18' (3/9/18)

Test Boring MW-08

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1	4	S-1	0-2	20	10	0.0	0.0	Asphalt and Base, Rock fragments	
	5							Mixed Tan/Gray/Black, Sand, Silt, Ash, trace Brick, moist (FILL)	
	5								
2	4	S-2	2-4	50	11	0.0	0.0		
	7								
3	4	S-3	4-6	50	2	0.0	0.0	Loose, Gray/Black/Tan, Sand, little Silt, little Ash (FILL)	
	3								
4	1	S-4	6-8	10	7	83.8	9.6	Loose Black, SILT, little Gravel, wet	Swampy odor? Oily appearance, weathered petroleum odor?
	1								
	1								
5	1	S-5	8-10	40	3	2.4	0.3	Loose, Brown/Gray, SILT, little Sand, wet	
	1								
6	2	S-6	10-10.5	NA	NA	NA	NA	...saturated	Auger refusal @ 10.5'
	50/2								
11								Massive Gray Dolomitic Limestone with horizontal and low angle fractures	
13	NA	C-1	10.5-15.7	100	71	NA	NA		
16								Bottom of Hole @ 15.7'	

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.5 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring MW-08

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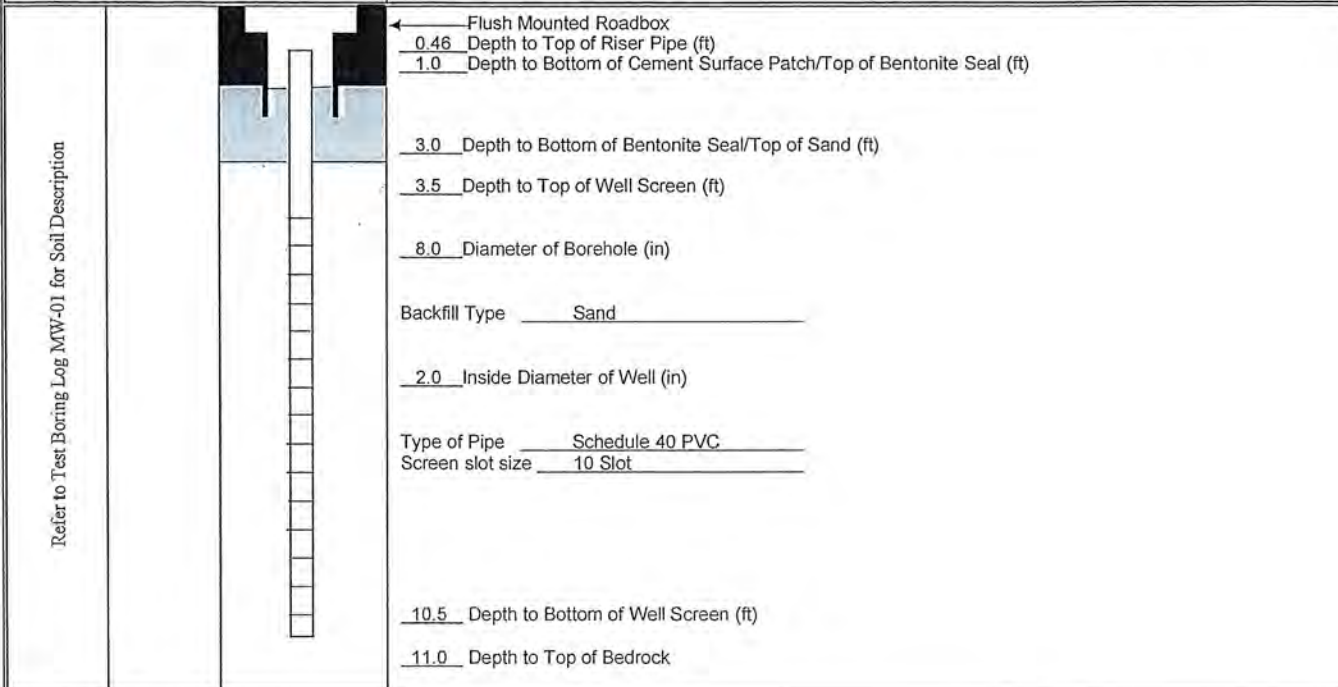
DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-01</b>	
Project Address:	Bulls Head				
	Rochester, New York	Ground Elevation:	536.39	Datum:	Rochester City datum
DAY Representative:	D. Peck	Date Started:	2/20/2018	Date Ended:	2/20/2018
Drilling Contractor:	Nature's Way	Water Level (Date):		5.24' (3-9-2018)	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-01

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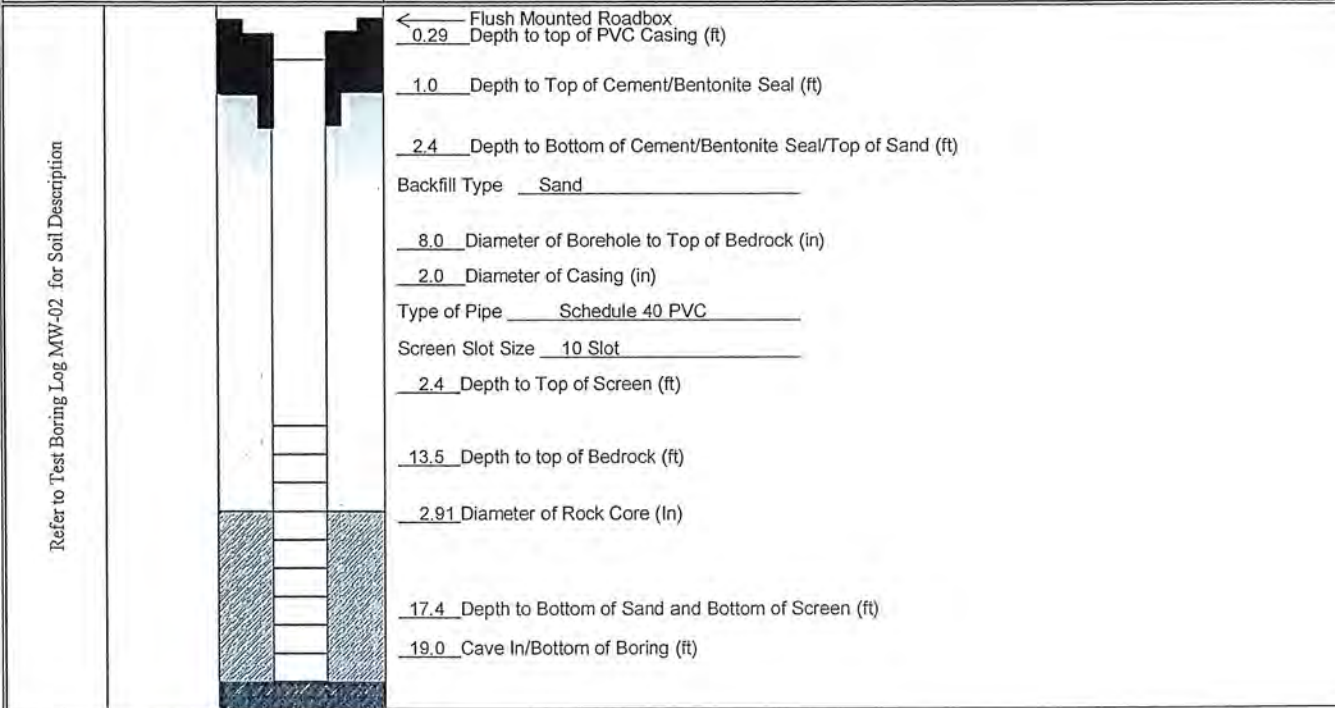


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-02</b>	
Project Address:	Bulls Head				
	Rochester, New York	Ground Elevation:	539.25	Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/21/2018	Date Ended:	2/21/2018
Drilling Contractor:	Nature's Way	Water Level (Date):	8.28' (3/9/18)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-02

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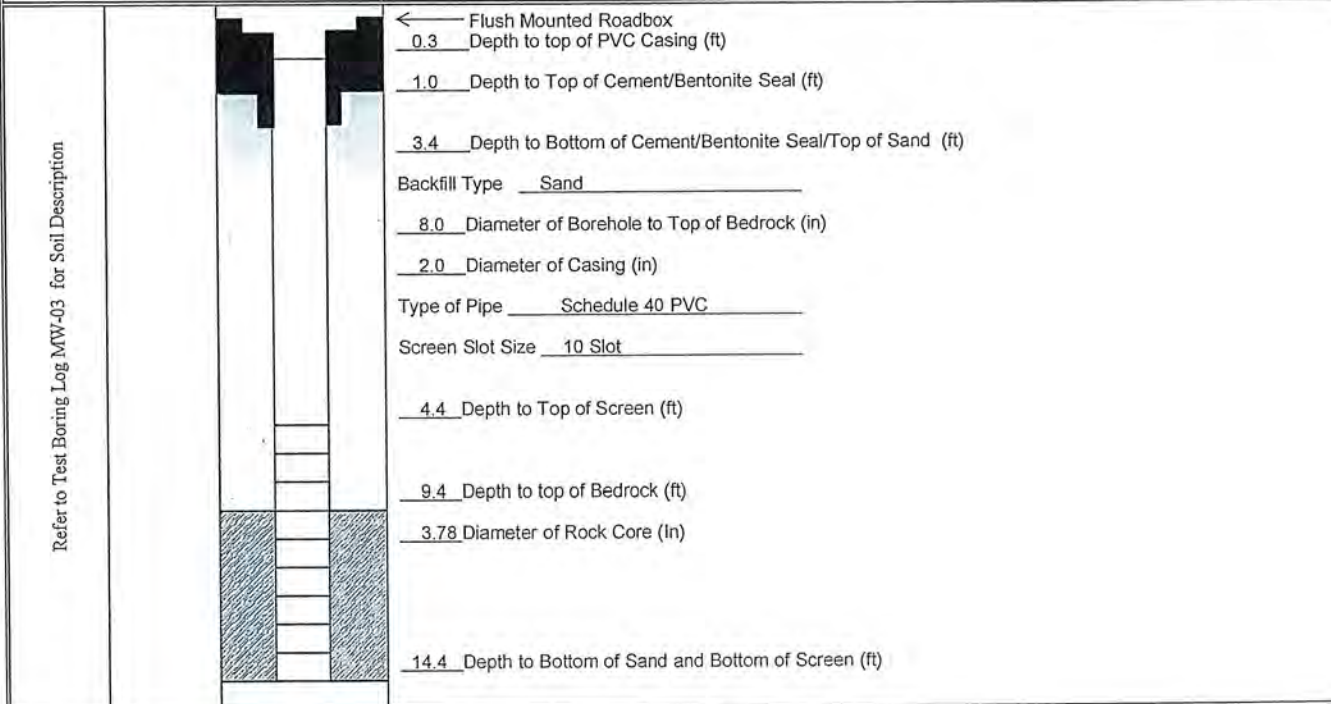


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			MONITORING WELL MW-03
Project Address:	Bulls Head			
	Rochester, New York	Ground Elevation:	543.70	Datum: Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/22/2018	Date Ended: 2/22/2018
Drilling Contractor:	Nature's Way	Water Level (Date): 7.35' (3/9/18)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-03

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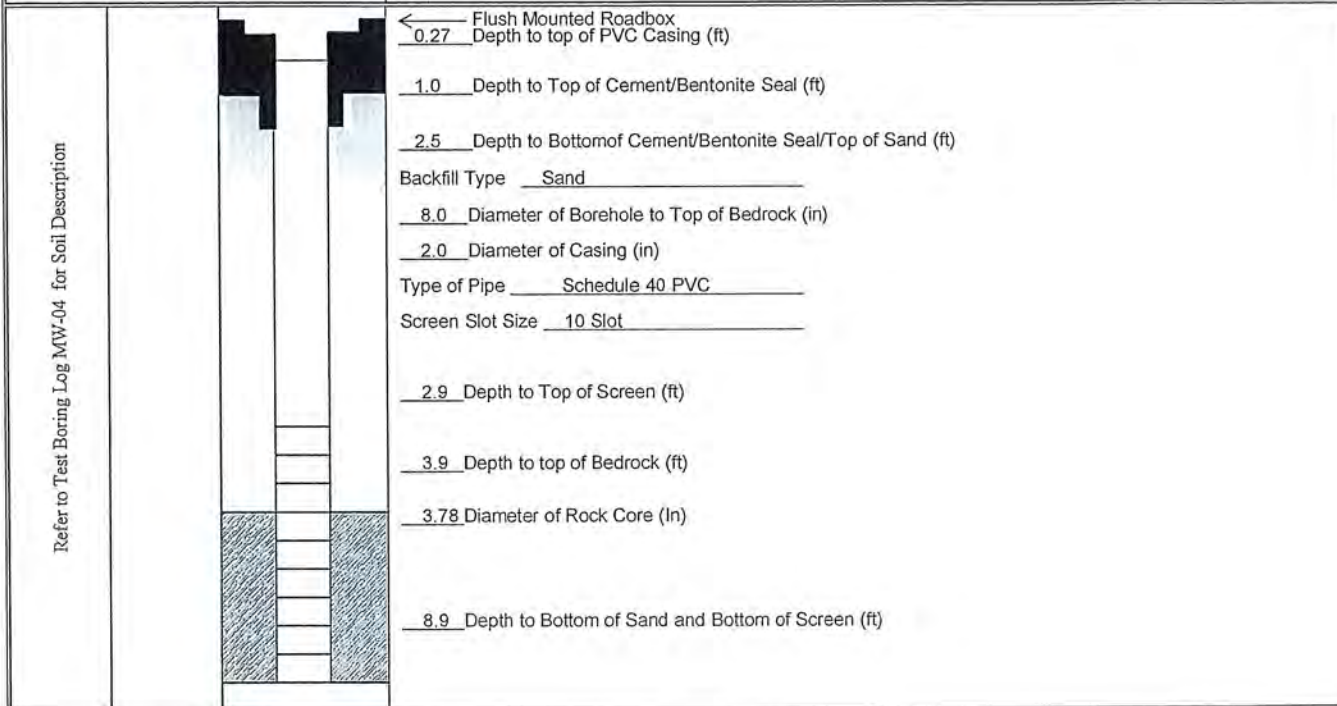


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-04</b>
Project Address:	Bulls Head			
	Rochester, New York	Ground Elevation:	543.51	Datum: Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/23/2018	Date Ended: 2/23/2018
Drilling Contractor:	Nature's Way	Water Level (Date): 5.9' (3/9/18)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-04

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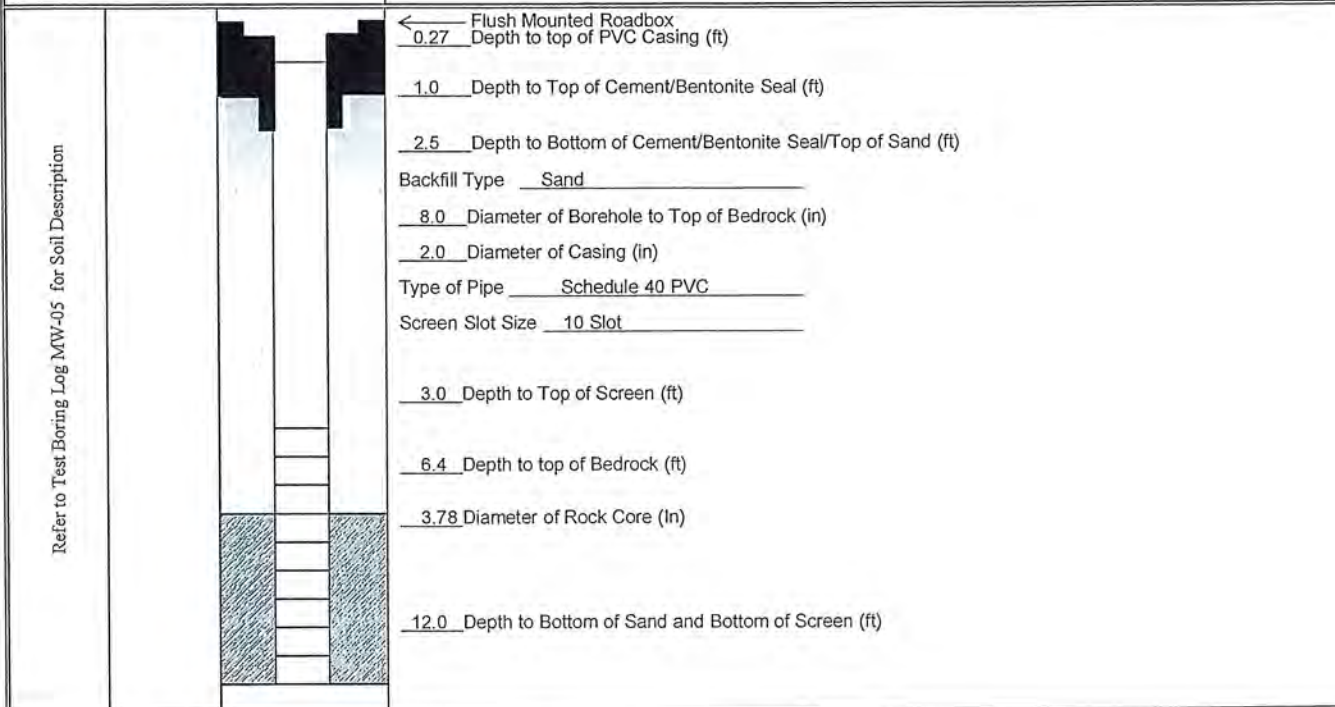
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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-05</b>
Project Address:	Bulls Head			
	Rochester, New York	Ground Elevation:	544.92	Datum: Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/26/2018	Date Ended: 2/26/2018
Drilling Contractor:	Nature's Way	Water Level (Date):	6.97' (3/9/18)	



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-05

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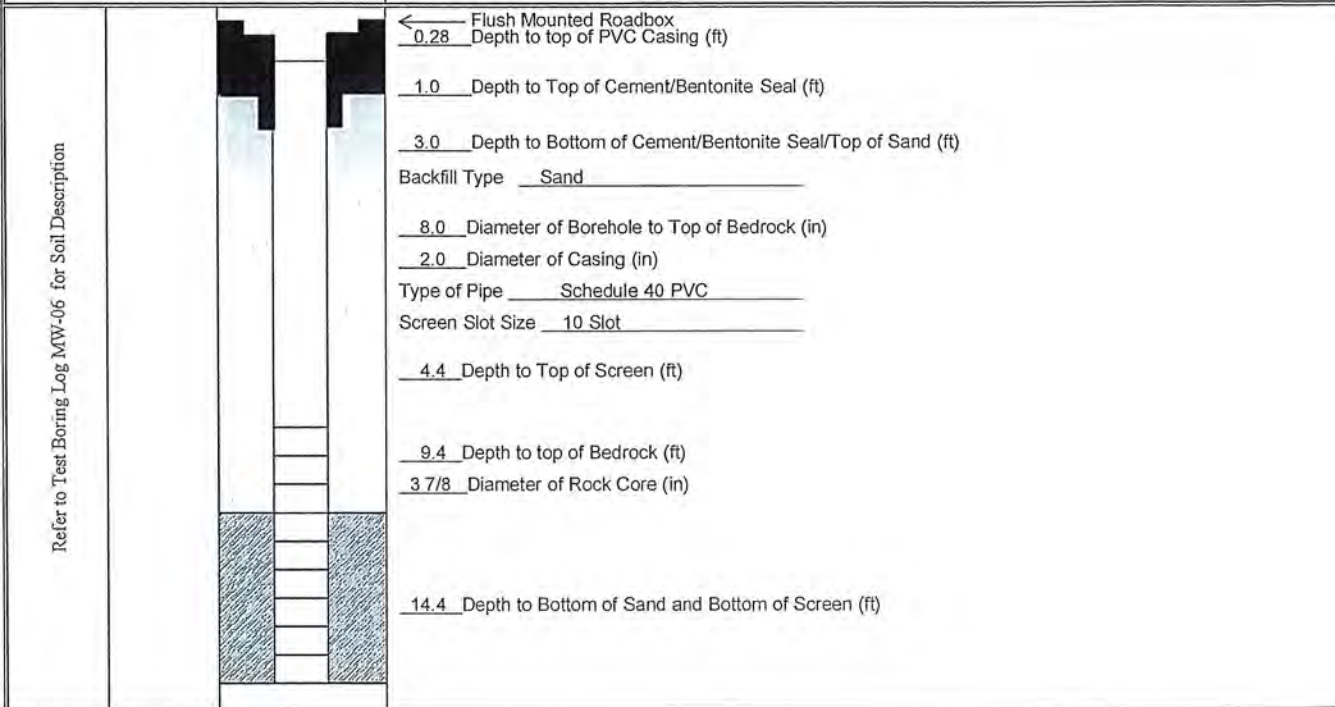
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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5464S-18				<b>MONITORING WELL MW-06</b>
Project Address: Bulls Head				
Rochester, New York	Ground Elevation: 544.92	Datum: Rochester City Datum		
DAY Representative: D. Peck	Date Started: 2/27/2018	Date Ended: 2/28/2018		
Drilling Contractor: Nature's Way	Water Level (Date): 8.15' (3/9/18)			



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of ground water levels may occur due to seasonal factors and other conditions.  
 2) NA = Not Available or Not Applicable

MONITORING WELL MW-06

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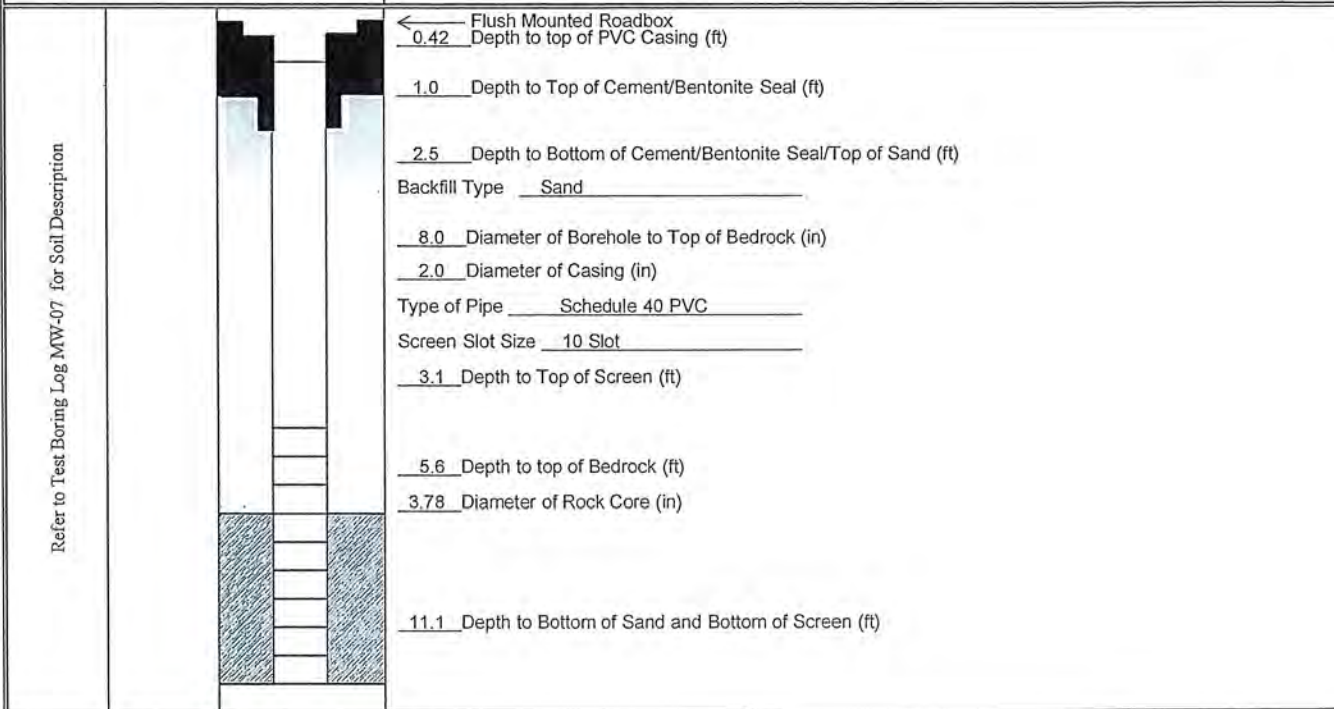


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AN AFFILIATE OF DAY ENGINEERING, P.C.

MONITORING WELL CONSTRUCTION DIAGRAM

Project #:	5464S-18			<b>MONITORING WELL MW-07</b>	
Project Address:	Bulls Head				
	Rochester, New York	Ground Elevation:	537.00	Datum:	Rochester City Datum
DAY Representative:	D. Peck	Date Started:	2/27/2018	Date Ended:	2/27/2018
Drilling Contractor:	Nature's Way	Water Level (Date):	6.53' (3/9/18)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
2) NA = Not Available or Not Applicable

MONITORING WELL MW-07

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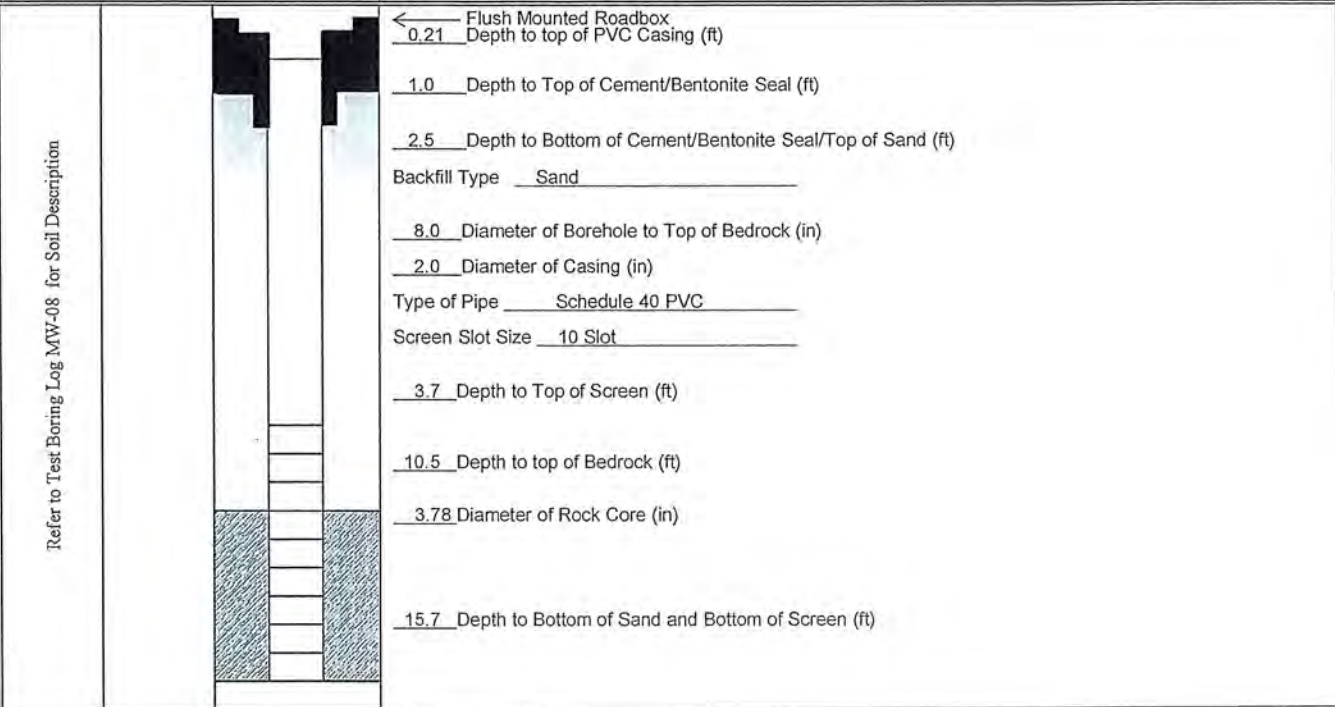


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MONITORING WELL CONSTRUCTION DIAGRAM

Project #: 5464S-18			<b>MONITORING WELL MW-08</b>
Project Address: Bulls Head Rochester, New York	Ground Elevation: 536.66	Datum: Rochester City Datum	
DAY Representative: D. Peck	Date Started: 2/28/2018	Date Ended: 2/28/2018	
Drilling Contractor: Nature's Way	Water Level (Date): 6.18' (3/9/18)		



Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
2) NA = Not Available or Not Applicable

MONITORING WELL MW-08

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**NOTES:**


Test borings were located using a Trimble Geo7x GPS Unit with sub-cm accuracy. These locations are to be considered approximate.

Parcel boundaries provided by the City of Rochester department of environmental services, dated 2017.

Aerial imagery provided by the New York State GIS Clearinghouse, dated 2015

Document Path: E:\GIS Mapping\Rochly\5409S-17\Rochly\5409S-02\_Site Plan.mxd

Last Date Saved: 21 Nov 2017

Date 11-21-2017	 <b>DAY ENVIRONMENTAL, INC.</b> Environmental Consultants Rochester, New York 14606 New York, New York 10170	Project Title 5 KENSINGTON STREET ROCHESTER, NEW YORK CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT	Project No. 5409S-17 FIGURE 2
Drawn By CPS		Drawing Title Site Plan with Test Boring Locations	
Scale AS NOTED			





DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5408S-17  
 Project Address: 50 York Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-1**

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 8.5' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at ~5.5' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RCD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Dark Brown, SILT, Topsoil with Vegetation (FILL)	
2	NA	S-1	0-4	75	NA	0.0	0.0	...some Gravel and Sand	
							0.1	...Brown, SILT, some Sand, moist to damp	
3							0.1	...trace Ash	
4							0.1	Medium Brown, Silty CLAY, moist	
5							0.0	Medium Brown, fine SAND, moist	
6	NA	S-2	4-8	70	NA	0.1	0.0	...wet seam	
7							0.0	...trace Gravel and Clay	
8	NA	S-3	8-8.5	100	NA	0.0	0.0	...wet	
9								Refusal @ 8.5' on inferred bedrock	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-1**

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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5408S-17  
 Project Address: 50 York Street  
 Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

Test Boring TB-2

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 8.7' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.1	Dark Brown, SILT, Topsoil with Vegetation (FILL)	
2	NA	S-1	0-4	70	NA	0.1	0.1	Dark Brown, Silt with trace Sand, Ash, moist (FILL)	
3							0.1	Brown, Silty CLAY, some Sand, moist	
4							0.1	...Light Brown with Gray Mottling	
5							0.1	Light Brown, fine SAND	
6	NA	S-2	4-8	70	NA	0.1	0.1	...Some coarse Gravel	
7							0.1		
8	NA	S-3	8-8.7	0	NA	NA	NA		No recovery from 8.0' to 8.7'
9								Refusal @ 8.7' on inferred bedrock	
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-2

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ENVIRONMENTAL CONSULTANTS  
AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5408S-17  
Project Address: 50 York Street  
Rochester, New York  
DAY Representative: H. McLennan  
Drilling Contractor: TREC  
Sampling Method: Direct Push

**Test Boring TB-3**

Ground Elevation: NA Datum: NA Page 1 of 1  
Date Started: 10/13/2017 Date Ended: 10/13/2017  
Borehole Depth: 7.3' Borehole Diameter: 2.25"  
Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
Water Level: Wet soil at ~6.5' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Black, Vegetation, Sand and Gravel, damp (FILL)	
2	NA	S-1	0-4	75	NA	0.0	0.0	Dark Brown, Silty Clay, trace Sand, Coal (FILL)	
3							0.0	...medium brown	
4							0.0	Medium Brown, Sandy SILT, trace Clay and Gravel	
5							0.0		
6	NA	S-2	4-7.3	50	NA	0.0	0.0	...Gravel content increasing, wet	
7							0.0		
8								Refusal @ 7.3' on inferred bedrock	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
4) NA = Not Available or Not Applicable  
5) Headspace PID readings may be influenced by moisture

**Test Boring TB-3**

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ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P. C.

Project #: 5408S-17  
 Project Address: 50 York Street  
Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

**Test Boring TB-4**

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 6.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.2	Concrete	
							0.4	Dark Brown, Silty Sand (FILL)	
2	NA	S-1	0-4	70	NA	0.1	0.2	...medium brown, trace Gravel	
3							0.2		
4							0.0	Light Orange-Brown, Silty Sandy CLAY, trace Gravel, damp	
5	NA	S-2	4-6	50	NA	0.1	0.1		
6								Refusal @ 6.0' on inferred bedrock	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.5 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

**Test Boring TB-4**

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### Legend

-  Test boring advanced October 13, 2017
-  Approximate property boundary

**NOTES:**

Test borings located based on field measurements from existing site features. These locations are to be considered approximate.

Property boundary provided by the City of Rochester, dated 2017.

Aerial imagery provided by the City of Rochester, dated 2012.

0 15 30 60 Feet  
 Pictometry, Inc. City of Rochester, NY

Document Path: E:\GIS Mapping\Rochester\5408S-17\Rochester\5408S-2 - Site Plan.mxd

Last Date Saved: 20 Nov 2017

Date	11-20-2017
Drawn By	CPS
Scale	AS NOTED



**DAY ENVIRONMENTAL, INC.**  
 Environmental Consultants  
 Rochester, New York 14606  
 New York, New York 10170

Project Title	50 YORK STREET ROCHESTER, NEW YORK
Drawing Title	CONFIRMATORY PHASE II ENVIRONMENTAL SITE ASSESSMENT
	Site Plan with Test Boring Locations

Project No.	5408S-17
	FIGURE 2





DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS  
AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5408S-17  
Project Address: 50 York Street  
Rochester, New York  
DAY Representative: H. McLennan  
Drilling Contractor: TREC  
Sampling Method: Direct Push

Ground Elevation: NA Datum: NA  
Date Started: 10/13/2017 Date Ended: 10/13/2017  
Borehole Depth: 8.5' Borehole Diameter: 2.25"  
Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
Water Level: Wet soil at ~5.5' bgs

Test Boring TB-1

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Dark Brown, SILT, Topsoil with Vegetation (FILL)	
2	NA	S-1	0-4	75	NA	0.0	0.0	...some Gravel and Sand ...Brown, SILT, some Sand, moist to damp	
3							0.1	...trace Ash	
4							0.1	Medium Brown, Silty CLAY, moist	
5							0.0	Medium Brown, fine SAND, moist	
6	NA	S-2	4-8	70	NA	0.1	0.0	...wet seam	
7							0.0	...trace Gravel and Clay	
8	NA	S-3	8-8.5	100	NA	0.0	0.0	...wet	
9								Refusal @ 8.5' on inferred bedrock	
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
4) NA = Not Available or Not Applicable  
5) Headspace PID readings may be influenced by moisture

Test Boring TB-1

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 Project Address: 50 York Street  
 Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

Ground Elevation: NA Datum: NA  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 8.7' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Test Boring TB-2

Page 1 of 1

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.1	Dark Brown, SILT, Topsoil with Vegetation (FILL)	
							0.1	Dark Brown, Silt with trace Sand, Ash, moist (FILL)	
2	NA	S-1	0-4	70	NA	0.1			
							0.1	Brown, Silty CLAY, some Sand, moist	
3							0.1		
4							0.1	...Light Brown with Gray Mottling	
5							0.1	Light Brown, fine SAND	
6	NA	S-2	4-8	70	NA	0.1		...Some coarse Gravel	
7							0.1		
8	NA	S-3	8-8.7	0	NA	NA	NA		No recovery from 8.0' to 8.7'
9								Refusal @ 8.7' on inferred bedrock	
10									
11									
12									
13									
14									
15									
16									

- Notes:
- 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.
  - 2) Stratification lines represent approximate boundaries. Transitions may be gradual.
  - 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.
  - 4) NA = Not Available or Not Applicable
  - 5) Headspace PID readings may be influenced by moisture

Test Boring TB-2

1983 LYELL AVENUE  
 ROCHESTER, NEW YORK 14626  
 (585) 434-0210  
 FAX (585) 434-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 301  
 NEW YORK, NEW YORK 10170  
 (212) 986-8845  
 FAX (212) 986-8857





DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5408S-17  
 Project Address: 50 York Street  
 Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

Test Boring TB-3

Page 1 of 1

Ground Elevation: NA Datum: NA  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 7.3' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Wet soil at ~6.5' bgs

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.0	Black, Vegetation, Sand and Gravel, damp (FILL)	
2	NA	S-1	0-4	75	NA	0.0	0.0	Dark Brown, Silty Clay, trace Sand, Coal (FILL)	
3							0.0	...medium brown	
4							0.0	Medium Brown, Sandy SILT, trace Clay and Gravel	
5							0.0		
6	NA	S-2	4-7.3	50	NA	0.0	0.0		
7							0.0	...Gravel content increasing, wet	
8								Refusal @ 7.3' on inferred bedrock	
9									
10									
11									
12									
13									
14									
15									
16									

Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-3

1583 LYELL AVENUE  
 ROCHESTER, NEW YORK, 14606  
 (585) 454-0210  
 FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300  
 NEW YORK, NEW YORK 10170  
 (212) 956-8645  
 FAX (212) 936-8557



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS

AN AFFILIATE OF DAY ENGINEERING, P.C.

Project #: 5408S-17  
 Project Address: 50 York Street  
 Rochester, New York  
 DAY Representative: H. McLennan  
 Drilling Contractor: TREC  
 Sampling Method: Direct Push

Test Boring TB-4

Ground Elevation: NA Datum: NA Page 1 of 1  
 Date Started: 10/13/2017 Date Ended: 10/13/2017  
 Borehole Depth: 6.0' Borehole Diameter: 2.25"  
 Completion Method:  Well Installed  Backfilled with Grout  Backfilled with Cuttings  
 Water Level: Not Encountered

Depth (ft)	Blows per 0.5 ft.	Sample Number	Sample Depth (ft)	% Recovery	N-Value or RQD%	Headspace PID (ppm)	PID Reading (ppm)	Sample Description	Notes
1							0.2	Concrete	
							0.4	Dark Brown, Silty Sand (FILL)	
2	NA	S-1	0-4	70	NA	0.1	0.2	...medium brown, trace Gravel	
3							0.2		
4							0.0	Light Orange-Brown, Silty Sandy CLAY, trace Gravel, damp	
5	NA	S-2	4-6	50	NA	0.1	0.1		
6								Refusal @ 6.0' on inferred bedrock	
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									

- Notes: 1) Water levels were made at the times and under conditions stated. Fluctuations of groundwater levels may occur due to seasonal factors and other conditions.  
 2) Stratification lines represent approximate boundaries. Transitions may be gradual.  
 3) PID readings are referenced to an isobutylene standard. A MiniRae 3000 equipped with a 10.6 eV lamp was used to obtain the PID readings.  
 4) NA = Not Available or Not Applicable  
 5) Headspace PID readings may be influenced by moisture

Test Boring TB-4

1363 LYELL AVENUE  
 ROCHESTER, NEW YORK 14606  
 (585) 454-0210  
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 NEW YORK, NEW YORK 10170  
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 FAX (212) 936-8657

**APPENDIX F**

**Study-Derived Wastes Disposal Documentation**



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>	1. Generator's US EPA ID No. <small>Generator's ID</small>	Manifest Doc No. <small>Number</small>	2. Page 1 of <b>1</b>
3. Generator's Mailing Address: CITY OF ROCHESTER ATTN: JANE FORBES CITY HALL, 30 CHURCH ST. RM 300B ROCHESTER, NY 14614 4. Generator's Phone 585-428-6855	Generator's Site Address (if different than mailing): CITY OF ROCHESTER 886 W. MAIN ST. ROCHESTER, NY 14611		A. Manifest Number <b>WMNA</b>
			B. State Generator's ID <small>State Generator's ID</small> <b>6694194</b>
5. Transporter 1 Company Name <small>Transporter 1 Company Name</small>	6. US EPA ID Number <small>US EPA ID Number</small>	C. State Transporter's ID <small>State Transporter ID</small>	
7. Transporter 2 Company Name <small>Transporter 2 Company Name</small>	8. US EPA ID Number <small>US EPA ID Number</small>	D. Transporter's Phone <small>Transporter 1 Phone</small>	
9. Designated Facility Name and Site Address WM OF NEW YORK AT HIGH ACRES LANDFILL 425 PERINTON PKWY. FAIRPORT, NY 14450	10. US EPA ID Number <small>US EPA ID Number</small>	E. State Transporter's ID <small>State Transporter ID</small>	
		F. Transporter's Phone <small>Transporter 2 Phone</small>	
11. Description of Waste Materials	12. Containers	13. Total Quantity	14. Unit Wt./Vol.
		I. Misc. Comments	
a. NON DOT REGULATED MATERIAL  WM Profile # <b>118908NY</b> <small>WM Profile Number</small>	No. <b>001</b> Type <b>RO</b>	Total Qty.	Wt./Vol.
b. Waste Name  WM Profile # <small>WM Profile Number</small>	No. Type	Total Qty.	Wt./Vol.
c. Waste Name  WM Profile # <small>WM Profile Number</small>	No. Type	Total Qty.	Wt./Vol.
d. Waste Name  WM Profile # <small>WM Profile Number</small>	No. Type	Total Qty.	Wt./Vol.
J. Additional Descriptions for Materials Listed Above <small>Additional Description</small>	K. Disposal Location		
	Cell	Level	
	Grid		
15. Special Handling Instructions and Additional Information a – 118908NY – Non Hazardous Soil Weight is estimated			
Purchase Order # <small>Purchase Order Number</small>		EMERGENCY CONTACT / PHONE NO.:	
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.			
Printed Name <i>Jane MH Forbes</i>	Signature <i>[Handwritten]</i>	Month <b>4</b>	Day <b>16</b> Year <b>2018</b>
Printed Name <i>Driver K Pettens</i>	Signature <i>[Handwritten]</i>	Month <b>4</b>	Day <b>16</b> Year <b>18</b>
Printed Name	Signature	Month	Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
Printed Name	Signature	Month	Day Year

GENERATOR

TRANSPORTER

FACILITY

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY  
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY  
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number

800-807-7455

18-0047

5. Generator's Name and Mailing Address  
CITY OF ROCHESTER  
30 CHURCH ST. RM 300B  
ROCHESTER NY 14614

Alt: JANE FORBES

Generator's Site Address (if different than mailing address)

CITY OF ROCHESTER  
42 YORK STREET  
ROCHESTER NY 14611

Generator's Phone:

6. Transporter 1 Company Name

SUN ENVIRONMENTAL CORP.

U.S. EPA ID Number

NYR000176958

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

CYCLE CHEM. INC.  
550 INDUSTRIAL DR.  
LEWISBERRY PA 17339

U.S. EPA ID Number

Facility's Phone: 717 938-4700

PAD067098822

9. Waste Shipping Name and Description

10. Containers

11. Total Quantity

12. Unit Wt./Vol.

No. Type

1. NON RCRA, NON DOT REGULATED LIQUIDS (PURGEWATER)

0 0 2

DM

00800

P

2.

3.

4.

13. Special Handling Instructions and Additional Information

JOB # DAYE1012 DAY ENVIRONMENTAL PO#R39546  
1. 737658-OW-A (55 GAL / HANDLING CODE L / SIGNED PROFILE ATTACHED)

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

JANE FORBES

Signature

Jane Forbes

Month Day Year

4 24 18

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

DANNAM KING

Signature

DANNAM KING

Month Day Year

5 2 18

Transporter 2 Printed/Typed Name

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

U.S. EPA ID Number

17b. Alternate Facility (or Generator)

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

**APPENDIX G**

**Environmental Analytical Laboratory Reports**



March 02, 2018

Service Request No:R1801334

Mr. Jeff Danzinger  
Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Mr.Danzinger,

Enclosed are the results of the sample(s) submitted to our laboratory February 14, 2018  
For your reference, these analyses have been assigned our service request number **R1801334**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS** 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



---

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## Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Received:** 02/14/2018

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Fourteen soil samples were received for analysis at ALS Environmental on 02/14/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Semivolatiles by GC/MS:

Method 8270D, 02/22/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, R1801334-003: Sample(s) required dilution due to the dark oily nature of the extract. The reporting limits are adjusted to reflect the dilution.

Method 8270D, 02/21/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

#### Semivolatile GC:

No significant anomalies were noted with this analysis.

#### Metals:

No significant anomalies were noted with this analysis.

#### General Chemistry:

No significant anomalies were noted with this analysis.

#### Volatiles by GC/MS:

Method 8260C, 02/16/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, R1801334-004: The control limits were exceeded for one or more surrogates due to matrix interferences. A re-extraction and reanalysis was performed, but produced similar results. No further corrective action was required. The reanalysis' surrogates passed (still on low side), however it had carry over from previous analysis. Use for confirmation only.

Method 8260C, 02/20/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and

Approved by 

Date 03/02/2018





no further corrective action was taken.

Approved by *Brendy Kruller*

Date 03/02/2018



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801334-001	TB-01 (3.0)	2/12/2018	0908
R1801334-002	TB-02 (8.0)	2/12/2018	0948
R1801334-003	TB-04 (2.5)	2/12/2018	1055
R1801334-004	TB-07 (5.5)	2/12/2018	1325
R1801334-005	TB-10 (15.0)	2/12/2018	1440
R1801334-006	TB-13 (8.0)	2/12/2018	1555
R1801334-007	TB-14 (7.0)	2/13/2018	0855
R1801334-008	TB-15 (7.0-7.5)	2/13/2018	0940
R1801334-009	TB-18 (10.0-11.0)	2/13/2018	1129
R1801334-010	TB-19 (10.0)	2/13/2018	1240
R1801334-011	TB-20 (3.0)	2/13/2018	1330
R1801334-012	TB-21 (5.0)	2/13/2018	1400
R1801334-013	TB-22 (12.0)	2/13/2018	1455
R1801334-014	TB-24 (2.5)	2/13/2018	1625



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

# 49622

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-1B</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE															
Company/Address <b>Day Environmental, Inc.</b>				NUMBER OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">           GC/MS VOAs 8260, 824, CLP GC/MS SVOAs 8270, 825 GC VOAs 8021, 601/602 PESTICIDES 8081, 608 PCBs 8082, 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) <b>Cyanide 9012</b> </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <b>TKL + STAR/CR-37</b> <b>TKL</b> <b>RCRA</b> </div> </div>												Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____		
1563 Lyell Avenue																			
Rochester, NY 14606																			
Phone # <b>585-454-0210</b>		Email <b>jdanzinger@daymail.net</b>																	
Sampler's Signature <i>William Simon</i>		Sampler's Printed Name		REMARKS/ ALTERNATE DESCRIPTION															
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE TIME		MATRIX															
TB-01 (3.0)		2/12/18	9:08	Soil	1	X													
TB-01 (6.0 - 7.0)		2/12/18	9:16	Soil	5													Hold	
TB-02 (8.0)		2/12/18	9:48	Soil	1	X													
TB-04 (2.5)		2/12/18	10:55	Soil	5	X	X												
TB-07 (5.5)		2/12/18	13:25	Soil	4	X													
TB-09 (6.0)		2/12/18	14:10	Soil	4													Hold	
TB-10 (15.0)		2/12/18	14:40	Soil	5	X													
TB-13 (8.0)		2/12/18	15:55	Soil	5	X													
TB-14 (7.0)		2/13/18	8:55	Soil	5	X	X			X	X								
TB-15 (7.0-7.5)		2/13/18	9:40	Soil	5	X													
TB-18 (10.0-11.0)		2/13/18	11:29	Soil	4		X												
SPECIAL INSTRUCTIONS/COMMENTS Metals RCRA S  Combine multi-day drop-off of sampler for this project into a single report to extent possible but still report tier II in 5 days					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day _____ 2 day _____ 3 day _____ 4 day _____ 5 day <u>X</u> REQUESTED REPORT DATE <u>15 day</u>					REPORT REQUIREMENTS I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <u>X</u> III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data <u>X</u>  NYSDEC EQUIS EXCEL Edata <u>X</u> Yes _____ No					INVOICE INFORMATION See 2/24/18 quote from Christina Cusano PO # <u>54645-1B</u> BILL TO: <u>SAME</u>				
See QAPP <input type="checkbox"/>																			
STATE WHERE SAMPLES WERE COLLECTED																			
RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY				
Signature <i>Jeff Danzinger</i>					Signature <i>Samuel Ward</i>					Signature					Signature				
Printed Name <b>Jeff Danzinger</b>					Printed Name <b>Samuel Ward</b>					Printed Name					Printed Name				
Firm <b>Day Env.</b>					Firm <b>ALS</b>					Firm					Firm				
Date/Time <b>2/14/18 @ 1635</b>					Date/Time <b>2/14/18/1638</b>					Date/Time					Date/Time				
R1801334 5										Day Environmental, Incorporated Bulls Head North, Rochester, NY									





# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49623

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PAGE 2 OF 2

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-1B</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE																			
Company/Address <b>Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606</b>		Email <b>jdanzinger@daymail.net</b>		NUMBER OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">           GC/MS VOAs 8260 • 824 • CLP 8270 • 825 GC VOAs 8021 • 801/802 PESTICIDES 8081 • 608 PCBs 8092 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) <b>RCRA</b> <b>Cyanide 9012</b> </div> <div style="text-align: right;">           Preservative Key            0. NONE            1. HCL            2. HNO<sub>3</sub>            3. H<sub>2</sub>SO<sub>4</sub>            4. NaOH            5. Zn. Acetate            6. MeOH            7. NaHSO<sub>4</sub>            8. Other _____             REMARKS/            ALTERNATE DESCRIPTION         </div> </div>																		
Phone # <b>585-454-0210</b>		Sampler's Signature 			Sampler's Printed Name <b>Jeff Danzinger</b>																		
FOR OFFICE USE ONLY LAB ID		SAMPLING DATE			TIME		MATRIX																
CLIENT SAMPLE ID		DATE			TIME		MATRIX																
TB-19 (10.0)		2/13/18			12:40		Soil		5 X														
TB-20 (3.0)		2/13/18		13:30		Soil		5 X															
TB-21 (5.0)		2/13/18		14:00		Soil		5 X															
TB-22 (12.0)		2/13/18		14:55		Soil		5 X															
TB-24 (2.5)		2/13/18		16:25		Soil		2 X X															
SPECIAL INSTRUCTIONS/COMMENTS Metals <b>RCRA 8</b>  Combine with -day drop-off of sampler for this project into a single report to extent possible												TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ <b>5 day</b> ___ <b>15 day</b> (circled) REQUESTED REPORT DATE			REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data  NYSDEL Equiv Excl Edata <input checked="" type="checkbox"/> Yes ___ No			INVOICE INFORMATION See 1/24/18 quote from Christina Custard PO # <b>54645-1B</b> BILL TO: <b>SAME</b>					
STATE WHERE SAMPLES WERE COLLECTED												RELINQUISHED BY			RECEIVED BY			RELINQUISHED BY			RECEIVED BY		
Signature												Signature			Signature			Signature			Signature		
Printed Name <b>Jeff Danzinger</b>												Printed Name <b>Carol Mac</b>			Printed Name <b>R1801334</b>			Printed Name <b>5</b>			Printed Name		
Firm <b>Day Env.</b>												Firm <b>ALS</b>			Firm <b>Day Environmental, Incorporated Bulls Head North, Rochester, NY</b>			Firm			Firm		
Date/Time <b>2-14-18 @ 16:35</b>												Date/Time <b>2/14/18/16:35</b>			Date/Time			Date/Time			Date/Time		



# Cooler Receipt and Preservation Check For

R1801334

5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day Environmental Folder Number R18-1334

Cooler received on 2/14/18 by: DLW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were <b>Custody seals</b> on outside of cooler?	Y <input checked="" type="checkbox"/> N
2	<b>Custody papers</b> properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N
3	Did all bottles arrive in good <b>condition</b> (unbroken)?	Y <input checked="" type="checkbox"/> N
4	Circle: <del>Wet Ice</del> <b>Dry Ice</b> <b>Gel packs</b> present?	Y <input checked="" type="checkbox"/> N

5a	<b>Perchlorate</b> samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* <b>bubbles</b> ?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore <u>5035set</u> NA	

8. Temperature Readings Date: 2/14/18 Time: 1710 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.6</u>							
Correction Factor (°C)	<u>±0.0</u>							
Corrected Temp (°C)	<u>5.6</u>							
Temp from: Type of bottle								
Within 0-6°C?	<input checked="" type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: Room by DLW on 2/14/18 at 1710  
5035 samples placed in storage location: R-Fox by J on V at J

Cooler Breakdown: Date: 2/15/18 Time: 1612 by: DLW

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042411 042417-158

Explain all Discrepancies/Other Comments: DLW 2/15/18

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: DLW  
PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1801334-001.01</b>	ALS SOP,7471B,6010C,8270D,6010C,6010C,6010C,6010C,6010C,6010C	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	
		2/20/2018	1023	In Lab / NMANSEN	
		2/20/2018	1231	R-002 / NMANSEN	
<b>R1801334-002.01</b>	ALS SOP,7471B,6010C,8270D,6010C,6010C,6010C,6010C,6010C,6010C	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	
		2/20/2018	1023	In Lab / NMANSEN	
		2/20/2018	1231	R-002 / NMANSEN	
<b>R1801334-003.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C,8270D	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	
		2/20/2018	1023	In Lab / NMANSEN	
		2/20/2018	1231	R-002 / NMANSEN	
<b>R1801334-003.02</b>	8260C	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-003.03</b>		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-003.04</b>		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-003.05</b>	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-004.01</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-004.02</b>	8260C,8260C				
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-004.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-004.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-004.05</b>	ALS SOP				
		2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-005.01</b>					
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-005.02</b>	8260C				
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-005.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-005.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-005.05</b>					



**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-006.01</b>					
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-006.02</b>					
	8260C	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-006.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-006.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-006.05</b>					
	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-007.01</b>					
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-007.02</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C,8082A,8270D	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	
		2/20/2018	1022	In Lab / NMANSEN	
		2/20/2018	1231	R-002 / NMANSEN	
<b>R1801334-007.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-007.04</b>	8260C	2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/20/2018	1506	In Lab / KRUEST	
		2/20/2018	1601	F-09 / KRUEST	
<b>R1801334-007.05</b>	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-008.01</b>		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-008.02</b>	8260C	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-008.03</b>		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-008.04</b>		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-008.05</b>	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-009.01</b>	8270D,ALS SOP	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	
<b>R1801334-010.01</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-010.02</b>					
	8260C				
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-010.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-010.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-010.05</b>					
	ALS SOP				
		2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-011.01</b>					
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-011.02</b>					
	8260C				
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-011.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-011.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-011.05</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-012.01</b>					
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-012.02</b>					
	8260C	2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-012.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-012.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-012.05</b>					
	ALS SOP	2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-012.06</b>					
		2/15/2018	1642	SMO / GESMERIAN	
<b>R1801334-012.07</b>					
		2/15/2018	1642	SMO / GESMERIAN	
<b>R1801334-012.08</b>					
		2/15/2018	1642	SMO / GESMERIAN	
<b>R1801334-013.01</b>					
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-013.02</b>					



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**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	8260C				
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
		2/16/2018	1204	In Lab / FNAEGLER	
		2/16/2018	1317	F-09 / FNAEGLER	
<b>R1801334-013.03</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-013.04</b>					
		2/15/2018	1635	SMO / GESMERIAN	
		2/15/2018	1637	F-09 / GESMERIAN	
<b>R1801334-013.05</b>					
	ALS SOP				
		2/15/2018	1637	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
<b>R1801334-014.01</b>					
	ALS SOP,7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C,8270D				
		2/15/2018	1634	SMO / GESMERIAN	
		2/15/2018	1637	R-002 / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	
		2/20/2018	1023	In Lab / NMANSEN	
		2/20/2018	1231	R-002 / NMANSEN	
<b>R1801334-014.02</b>					
		2/15/2018	1642	SMO / GESMERIAN	
		2/20/2018	0816	In Lab / DMURPHY	



# Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
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## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Soil	Total Solids



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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001  
**Sample Matrix:** Soil

**Date Collected:** 02/12/18  
**Date Received:** 02/14/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KMENG

**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002  
**Sample Matrix:** Soil

**Date Collected:** 02/12/18  
**Date Received:** 02/14/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KMENG

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003  
**Sample Matrix:** Soil

**Date Collected:** 02/12/18  
**Date Received:** 02/14/18

**Analysis Method**

6010C  
7471B  
8260C  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
FNAEGLER  
JMISIUREWICZ  
KMENG

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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004  
**Sample Matrix:** Soil

**Date Collected:** 02/12/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005  
**Sample Matrix:** Soil

**Date Collected:** 02/12/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006  
**Sample Matrix:** Soil

**Date Collected:** 02/12/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
6010C  
7471B  
8082A  
8260C  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
MPEDRO  
KRUEST  
JMISIUREWICZ  
KMENG

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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
8270D  
ALS SOP

**Extracted/Digested By**  
DMURPHY

**Analyzed By**  
JMISIUREWICZ  
KMENG

**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KMENG

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014  
**Sample Matrix:** Soil

**Date Collected:** 02/13/18  
**Date Received:** 02/14/18

**Analysis Method**  
6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
JMISIUREWICZ  
KMENG



## INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.





# Sample Results

**ALS Environmental—Rochester Laboratory**  
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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

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Phone (585) 288-5380 Fax (585) 288-8475

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dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.74	.91	02/16/18 12:38	
1,1,2,2-Tetrachloroethane	<b>1.2 J</b>	5.0	0.82	.91	02/16/18 12:38	
1,1,2-Trichloroethane	5.0 U	5.0	0.74	.91	02/16/18 12:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.63	.91	02/16/18 12:38	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.60	.91	02/16/18 12:38	
1,2,4-Trimethylbenzene	<b>2.1 J</b>	5.0	0.55	.91	02/16/18 12:38	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.9	.91	02/16/18 12:38	
1,2-Dibromoethane	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,2-Dichlorobenzene	5.0 U	5.0	0.62	.91	02/16/18 12:38	
1,2-Dichloroethane	5.0 U	5.0	0.62	.91	02/16/18 12:38	
1,2-Dichloropropane	5.0 U	5.0	0.98	.91	02/16/18 12:38	
1,3,5-Trimethylbenzene	<b>1.2 J</b>	5.0	0.80	.91	02/16/18 12:38	
1,3-Dichlorobenzene	5.0 U	5.0	0.64	.91	02/16/18 12:38	
1,4-Dichlorobenzene	5.0 U	5.0	0.57	.91	02/16/18 12:38	
1,4-Dioxane	100 U	100	20	.91	02/16/18 12:38	
2-Butanone (MEK)	<b>5.2</b>	5.0	2.4	.91	02/16/18 12:38	
2-Hexanone	5.0 U	5.0	1.3	.91	02/16/18 12:38	
4-Isopropyltoluene	5.0 U	5.0	0.88	.91	02/16/18 12:38	
4-Methyl-2-pentanone	5.0 U	5.0	0.99	.91	02/16/18 12:38	
Acetone	<b>38</b>	5.0	2.9	.91	02/16/18 12:38	
Benzene	<b>1.1 J</b>	5.0	0.30	.91	02/16/18 12:38	
Bromochloromethane	5.0 U	5.0	1.4	.91	02/16/18 12:38	
Bromodichloromethane	5.0 U	5.0	0.62	.91	02/16/18 12:38	
Bromoform	5.0 U	5.0	0.94	.91	02/16/18 12:38	
Bromomethane	5.0 U	5.0	1.4	.91	02/16/18 12:38	
Carbon Disulfide	5.0 U	5.0	1.3	.91	02/16/18 12:38	
Carbon Tetrachloride	5.0 U	5.0	0.93	.91	02/16/18 12:38	
Chlorobenzene	5.0 U	5.0	0.30	.91	02/16/18 12:38	
Chloroethane	5.0 U	5.0	2.9	.91	02/16/18 12:38	
Chloroform	5.0 U	5.0	1.3	.91	02/16/18 12:38	
Chloromethane	5.0 U	5.0	0.41	.91	02/16/18 12:38	
Cyclohexane	<b>20</b>	5.0	1.4	.91	02/16/18 12:38	
Dibromochloromethane	5.0 U	5.0	0.74	.91	02/16/18 12:38	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1.9	.91	02/16/18 12:38	
Dichloromethane	<b>0.62 J</b>	5.0	0.58	.91	02/16/18 12:38	
Ethylbenzene	<b>1.3 J</b>	5.0	0.24	.91	02/16/18 12:38	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.68	.91	02/16/18 12:38	
Methyl Acetate	5.0 U	5.0	1.8	.91	02/16/18 12:38	
Methyl tert-Butyl Ether	5.0 U	5.0	0.95	.91	02/16/18 12:38	
Methylcyclohexane	<b>3.2 J</b>	5.0	1.3	.91	02/16/18 12:38	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.0 U	5.0	0.31	.91	02/16/18 12:38	
Tetrachloroethene (PCE)	5.0 U	5.0	0.89	.91	02/16/18 12:38	
Toluene	<b>2.3 J</b>	5.0	1.1	.91	02/16/18 12:38	
Trichloroethene (TCE)	5.0 U	5.0	1.1	.91	02/16/18 12:38	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.67	.91	02/16/18 12:38	
Vinyl Chloride	5.0 U	5.0	1.9	.91	02/16/18 12:38	
cis-1,2-Dichloroethene	5.0 U	5.0	0.96	.91	02/16/18 12:38	
cis-1,3-Dichloropropene	5.0 U	5.0	0.91	.91	02/16/18 12:38	
m,p-Xylenes	<b>2.1 J</b>	10	1.1	.91	02/16/18 12:38	
n-Butylbenzene	<b>1.0 J</b>	5.0	0.99	.91	02/16/18 12:38	
n-Propylbenzene	<b>1.1 J</b>	5.0	0.79	.91	02/16/18 12:38	
o-Xylene	<b>0.90 J</b>	5.0	0.49	.91	02/16/18 12:38	
sec-Butylbenzene	5.0 U	5.0	0.73	.91	02/16/18 12:38	
tert-Butylbenzene	5.0 U	5.0	0.59	.91	02/16/18 12:38	
trans-1,2-Dichloroethene	5.0 U	5.0	0.87	.91	02/16/18 12:38	
trans-1,3-Dichloropropene	5.0 U	5.0	0.21	.91	02/16/18 12:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	81	51 - 136	02/16/18 12:38	
Dibromofluoromethane	99	63 - 138	02/16/18 12:38	
Toluene-d8	102	66 - 138	02/16/18 12:38	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.5 U	5.5	0.80	.73	02/16/18 16:52	
1,1,2,2-Tetrachloroethane	<b>1.1 J</b>	5.5	0.89	.73	02/16/18 16:52	
1,1,2-Trichloroethane	5.5 U	5.5	0.80	.73	02/16/18 16:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,1-Dichloroethane (1,1-DCA)	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,1-Dichloroethene (1,1-DCE)	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,2,3-Trichlorobenzene	5.5 U	5.5	0.68	.73	02/16/18 16:52	
1,2,4-Trichlorobenzene	5.5 U	5.5	0.65	.73	02/16/18 16:52	
1,2,4-Trimethylbenzene	<b>8.2</b>	5.5	0.59	.73	02/16/18 16:52	
1,2-Dibromo-3-chloropropane (DBCP)	5.5 U	5.5	2.1	.73	02/16/18 16:52	
1,2-Dibromoethane	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,2-Dichlorobenzene	5.5 U	5.5	0.67	.73	02/16/18 16:52	
1,2-Dichloroethane	5.5 U	5.5	0.67	.73	02/16/18 16:52	
1,2-Dichloropropane	5.5 U	5.5	1.1	.73	02/16/18 16:52	
1,3,5-Trimethylbenzene	<b>2.5 J</b>	5.5	0.87	.73	02/16/18 16:52	
1,3-Dichlorobenzene	5.5 U	5.5	0.69	.73	02/16/18 16:52	
1,4-Dichlorobenzene	5.5 U	5.5	0.62	.73	02/16/18 16:52	
1,4-Dioxane	110 U	110	21	.73	02/16/18 16:52	
2-Butanone (MEK)	<b>10</b>	5.5	2.5	.73	02/16/18 16:52	
2-Hexanone	5.5 U	5.5	1.4	.73	02/16/18 16:52	
4-Isopropyltoluene	<b>0.99 J</b>	5.5	0.95	.73	02/16/18 16:52	
4-Methyl-2-pentanone	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Acetone	<b>68</b>	5.5	3.1	.73	02/16/18 16:52	
Benzene	<b>0.32 J</b>	5.5	0.32	.73	02/16/18 16:52	
Bromochloromethane	5.5 U	5.5	1.5	.73	02/16/18 16:52	
Bromodichloromethane	5.5 U	5.5	0.67	.73	02/16/18 16:52	
Bromoform	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Bromomethane	5.5 U	5.5	1.6	.73	02/16/18 16:52	
Carbon Disulfide	<b>15</b>	5.5	1.4	.73	02/16/18 16:52	
Carbon Tetrachloride	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Chlorobenzene	5.5 U	5.5	0.32	.73	02/16/18 16:52	
Chloroethane	5.5 U	5.5	3.2	.73	02/16/18 16:52	
Chloroform	5.5 U	5.5	1.4	.73	02/16/18 16:52	
Chloromethane	5.5 U	5.5	0.44	.73	02/16/18 16:52	
Cyclohexane	5.5 U	5.5	1.6	.73	02/16/18 16:52	
Dibromochloromethane	5.5 U	5.5	0.80	.73	02/16/18 16:52	
Dichlorodifluoromethane (CFC 12)	5.5 U	5.5	2.1	.73	02/16/18 16:52	
Dichloromethane	5.5 U	5.5	0.63	.73	02/16/18 16:52	
Ethylbenzene	5.5 U	5.5	0.26	.73	02/16/18 16:52	
Isopropylbenzene (Cumene)	5.5 U	5.5	0.74	.73	02/16/18 16:52	
Methyl Acetate	5.5 U	5.5	2.0	.73	02/16/18 16:52	
Methyl tert-Butyl Ether	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Methylcyclohexane	<b>1.7 J</b>	5.5	1.4	.73	02/16/18 16:52	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.5 U	5.5	0.33	.73	02/16/18 16:52	
Tetrachloroethene (PCE)	5.5 U	5.5	0.97	.73	02/16/18 16:52	
Toluene	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Trichloroethene (TCE)	5.5 U	5.5	1.2	.73	02/16/18 16:52	
Trichlorofluoromethane (CFC 11)	5.5 U	5.5	0.73	.73	02/16/18 16:52	
Vinyl Chloride	5.5 U	5.5	2.1	.73	02/16/18 16:52	
cis-1,2-Dichloroethene	5.5 U	5.5	1.1	.73	02/16/18 16:52	
cis-1,3-Dichloropropene	5.5 U	5.5	0.99	.73	02/16/18 16:52	
m,p-Xylenes	11 U	11	1.2	.73	02/16/18 16:52	
n-Butylbenzene	<b>2.4 J</b>	5.5	1.1	.73	02/16/18 16:52	
n-Propylbenzene	5.5 U	5.5	0.86	.73	02/16/18 16:52	
o-Xylene	5.5 U	5.5	0.53	.73	02/16/18 16:52	
sec-Butylbenzene	5.5 U	5.5	0.79	.73	02/16/18 16:52	
tert-Butylbenzene	5.5 U	5.5	0.64	.73	02/16/18 16:52	
trans-1,2-Dichloroethene	5.5 U	5.5	0.94	.73	02/16/18 16:52	
trans-1,3-Dichloropropene	5.5 U	5.5	0.22	.73	02/16/18 16:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	51 - 136	02/16/18 16:52	
Dibromofluoromethane	67	63 - 138	02/16/18 16:52	
Toluene-d8	100	66 - 138	02/16/18 16:52	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.8 U	6.8	1.0	.91	02/16/18 13:01	
1,1,2,2-Tetrachloroethane	6.8 U	6.8	1.2	.91	02/16/18 13:01	
1,1,2-Trichloroethane	6.8 U	6.8	1.0	.91	02/16/18 13:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.8 U	6.8	1.7	.91	02/16/18 13:01	
1,1-Dichloroethane (1,1-DCA)	6.8 U	6.8	1.8	.91	02/16/18 13:01	
1,1-Dichloroethene (1,1-DCE)	6.8 U	6.8	1.8	.91	02/16/18 13:01	
1,2,3-Trichlorobenzene	6.8 U	6.8	0.85	.91	02/16/18 13:01	
1,2,4-Trichlorobenzene	6.8 U	6.8	0.81	.91	02/16/18 13:01	
1,2,4-Trimethylbenzene	<b>0.78 J</b>	6.8	0.74	.91	02/16/18 13:01	
1,2-Dibromo-3-chloropropane (DBCP)	6.8 U	6.8	2.6	.91	02/16/18 13:01	
1,2-Dibromoethane	6.8 U	6.8	1.7	.91	02/16/18 13:01	
1,2-Dichlorobenzene	6.8 U	6.8	0.83	.91	02/16/18 13:01	
1,2-Dichloroethane	6.8 U	6.8	0.83	.91	02/16/18 13:01	
1,2-Dichloropropane	6.8 U	6.8	1.4	.91	02/16/18 13:01	
1,3,5-Trimethylbenzene	6.8 U	6.8	1.1	.91	02/16/18 13:01	
1,3-Dichlorobenzene	6.8 U	6.8	0.86	.91	02/16/18 13:01	
1,4-Dichlorobenzene	6.8 U	6.8	0.77	.91	02/16/18 13:01	
1,4-Dioxane	140 U	140	27	.91	02/16/18 13:01	
2-Butanone (MEK)	<b>6.6 J</b>	6.8	3.2	.91	02/16/18 13:01	
2-Hexanone	6.8 U	6.8	1.7	.91	02/16/18 13:01	
4-Isopropyltoluene	6.8 U	6.8	1.2	.91	02/16/18 13:01	
4-Methyl-2-pentanone	6.8 U	6.8	1.4	.91	02/16/18 13:01	
Acetone	<b>58</b>	6.8	3.9	.91	02/16/18 13:01	
Benzene	6.8 U	6.8	0.40	.91	02/16/18 13:01	
Bromochloromethane	6.8 U	6.8	1.9	.91	02/16/18 13:01	
Bromodichloromethane	6.8 U	6.8	0.83	.91	02/16/18 13:01	
Bromoform	6.8 U	6.8	1.3	.91	02/16/18 13:01	
Bromomethane	6.8 U	6.8	1.9	.91	02/16/18 13:01	
Carbon Disulfide	<b>11</b>	6.8	1.7	.91	02/16/18 13:01	
Carbon Tetrachloride	6.8 U	6.8	1.3	.91	02/16/18 13:01	
Chlorobenzene	6.8 U	6.8	0.40	.91	02/16/18 13:01	
Chloroethane	6.8 U	6.8	4.0	.91	02/16/18 13:01	
Chloroform	6.8 U	6.8	1.8	.91	02/16/18 13:01	
Chloromethane	6.8 U	6.8	0.55	.91	02/16/18 13:01	
Cyclohexane	6.8 U	6.8	1.9	.91	02/16/18 13:01	
Dibromochloromethane	6.8 U	6.8	1.0	.91	02/16/18 13:01	
Dichlorodifluoromethane (CFC 12)	6.8 U	6.8	2.6	.91	02/16/18 13:01	
Dichloromethane	6.8 U	6.8	0.78	.91	02/16/18 13:01	
Ethylbenzene	6.8 U	6.8	0.32	.91	02/16/18 13:01	
Isopropylbenzene (Cumene)	6.8 U	6.8	0.92	.91	02/16/18 13:01	
Methyl Acetate	6.8 U	6.8	2.4	.91	02/16/18 13:01	
Methyl tert-Butyl Ether	6.8 U	6.8	1.3	.91	02/16/18 13:01	
Methylcyclohexane	<b>1.8 J</b>	6.8	1.7	.91	02/16/18 13:01	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	6.8 U	6.8	0.41	.91	02/16/18 13:01	
Tetrachloroethene (PCE)	6.8 U	6.8	1.2	.91	02/16/18 13:01	
Toluene	6.8 U	6.8	1.4	.91	02/16/18 13:01	
Trichloroethene (TCE)	6.8 U	6.8	1.4	.91	02/16/18 13:01	
Trichlorofluoromethane (CFC 11)	6.8 U	6.8	0.90	.91	02/16/18 13:01	
Vinyl Chloride	6.8 U	6.8	2.6	.91	02/16/18 13:01	
cis-1,2-Dichloroethene	6.8 U	6.8	1.3	.91	02/16/18 13:01	
cis-1,3-Dichloropropene	6.8 U	6.8	1.3	.91	02/16/18 13:01	
m,p-Xylenes	14 U	14	1.5	.91	02/16/18 13:01	
n-Butylbenzene	6.8 U	6.8	1.4	.91	02/16/18 13:01	
n-Propylbenzene	6.8 U	6.8	1.1	.91	02/16/18 13:01	
o-Xylene	6.8 U	6.8	0.66	.91	02/16/18 13:01	
sec-Butylbenzene	6.8 U	6.8	0.98	.91	02/16/18 13:01	
tert-Butylbenzene	6.8 U	6.8	0.79	.91	02/16/18 13:01	
trans-1,2-Dichloroethene	6.8 U	6.8	1.2	.91	02/16/18 13:01	
trans-1,3-Dichloropropene	6.8 U	6.8	0.28	.91	02/16/18 13:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	02/16/18 13:01	
Dibromofluoromethane	50 *	63 - 138	02/16/18 13:01	*
Toluene-d8	103	66 - 138	02/16/18 13:01	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 14:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.6 U	4.6	0.68	.73	02/16/18 13:24	
1,1,2,2-Tetrachloroethane	4.6 U	4.6	0.75	.73	02/16/18 13:24	
1,1,2-Trichloroethane	4.6 U	4.6	0.68	.73	02/16/18 13:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,1-Dichloroethane (1,1-DCA)	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,1-Dichloroethene (1,1-DCE)	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,2,3-Trichlorobenzene	4.6 U	4.6	0.58	.73	02/16/18 13:24	
1,2,4-Trichlorobenzene	4.6 U	4.6	0.55	.73	02/16/18 13:24	
1,2,4-Trimethylbenzene	4.6 U	4.6	0.50	.73	02/16/18 13:24	
1,2-Dibromo-3-chloropropane (DBCP)	4.6 U	4.6	1.8	.73	02/16/18 13:24	
1,2-Dibromoethane	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,2-Dichlorobenzene	4.6 U	4.6	0.57	.73	02/16/18 13:24	
1,2-Dichloroethane	4.6 U	4.6	0.57	.73	02/16/18 13:24	
1,2-Dichloropropane	4.6 U	4.6	0.90	.73	02/16/18 13:24	
1,3,5-Trimethylbenzene	4.6 U	4.6	0.73	.73	02/16/18 13:24	
1,3-Dichlorobenzene	4.6 U	4.6	0.59	.73	02/16/18 13:24	
1,4-Dichlorobenzene	4.6 U	4.6	0.52	.73	02/16/18 13:24	
1,4-Dioxane	92 U	92	18	.73	02/16/18 13:24	
2-Butanone (MEK)	<b>12</b>	4.6	2.2	.73	02/16/18 13:24	
2-Hexanone	4.6 U	4.6	1.2	.73	02/16/18 13:24	
4-Isopropyltoluene	4.6 U	4.6	0.81	.73	02/16/18 13:24	
4-Methyl-2-pentanone	4.6 U	4.6	0.91	.73	02/16/18 13:24	
Acetone	<b>40</b>	4.6	2.6	.73	02/16/18 13:24	
Benzene	<b>0.30 J</b>	4.6	0.27	.73	02/16/18 13:24	
Bromochloromethane	4.6 U	4.6	1.3	.73	02/16/18 13:24	
Bromodichloromethane	4.6 U	4.6	0.57	.73	02/16/18 13:24	
Bromoform	4.6 U	4.6	0.86	.73	02/16/18 13:24	
Bromomethane	4.6 U	4.6	1.3	.73	02/16/18 13:24	
Carbon Disulfide	4.6 U	4.6	1.2	.73	02/16/18 13:24	
Carbon Tetrachloride	4.6 U	4.6	0.85	.73	02/16/18 13:24	
Chlorobenzene	4.6 U	4.6	0.27	.73	02/16/18 13:24	
Chloroethane	4.6 U	4.6	2.7	.73	02/16/18 13:24	
Chloroform	4.6 U	4.6	1.2	.73	02/16/18 13:24	
Chloromethane	4.6 U	4.6	0.37	.73	02/16/18 13:24	
Cyclohexane	4.6 U	4.6	1.3	.73	02/16/18 13:24	
Dibromochloromethane	4.6 U	4.6	0.68	.73	02/16/18 13:24	
Dichlorodifluoromethane (CFC 12)	4.6 U	4.6	1.8	.73	02/16/18 13:24	
Dichloromethane	<b>0.61 J</b>	4.6	0.53	.73	02/16/18 13:24	
Ethylbenzene	4.6 U	4.6	0.22	.73	02/16/18 13:24	
Isopropylbenzene (Cumene)	4.6 U	4.6	0.62	.73	02/16/18 13:24	
Methyl Acetate	4.6 U	4.6	1.7	.73	02/16/18 13:24	
Methyl tert-Butyl Ether	4.6 U	4.6	0.87	.73	02/16/18 13:24	
Methylcyclohexane	4.6 U	4.6	1.2	.73	02/16/18 13:24	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 14:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.6 U	4.6	0.28	.73	02/16/18 13:24	
Tetrachloroethene (PCE)	4.6 U	4.6	0.82	.73	02/16/18 13:24	
Toluene	4.6 U	4.6	0.93	.73	02/16/18 13:24	
Trichloroethene (TCE)	4.6 U	4.6	0.94	.73	02/16/18 13:24	
Trichlorofluoromethane (CFC 11)	4.6 U	4.6	0.61	.73	02/16/18 13:24	
Vinyl Chloride	4.6 U	4.6	1.7	.73	02/16/18 13:24	
cis-1,2-Dichloroethene	4.6 U	4.6	0.88	.73	02/16/18 13:24	
cis-1,3-Dichloropropene	4.6 U	4.6	0.83	.73	02/16/18 13:24	
m,p-Xylenes	9.2 U	9.2	1.1	.73	02/16/18 13:24	
n-Butylbenzene	4.6 U	4.6	0.91	.73	02/16/18 13:24	
n-Propylbenzene	4.6 U	4.6	0.72	.73	02/16/18 13:24	
o-Xylene	4.6 U	4.6	0.45	.73	02/16/18 13:24	
sec-Butylbenzene	4.6 U	4.6	0.67	.73	02/16/18 13:24	
tert-Butylbenzene	4.6 U	4.6	0.54	.73	02/16/18 13:24	
trans-1,2-Dichloroethene	4.6 U	4.6	0.80	.73	02/16/18 13:24	
trans-1,3-Dichloropropene	4.6 U	4.6	0.19	.73	02/16/18 13:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	51 - 136	02/16/18 13:24	
Dibromofluoromethane	101	63 - 138	02/16/18 13:24	
Toluene-d8	101	66 - 138	02/16/18 13:24	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 15:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.57	.66	02/16/18 13:47	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.63	.66	02/16/18 13:47	
1,1,2-Trichloroethane	3.8 U	3.8	0.57	.66	02/16/18 13:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.96	.66	02/16/18 13:47	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.96	.66	02/16/18 13:47	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.99	.66	02/16/18 13:47	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.48	.66	02/16/18 13:47	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.46	.66	02/16/18 13:47	
1,2,4-Trimethylbenzene	3.8 U	3.8	0.42	.66	02/16/18 13:47	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.66	02/16/18 13:47	
1,2-Dibromoethane	3.8 U	3.8	0.93	.66	02/16/18 13:47	
1,2-Dichlorobenzene	3.8 U	3.8	0.47	.66	02/16/18 13:47	
1,2-Dichloroethane	3.8 U	3.8	0.47	.66	02/16/18 13:47	
1,2-Dichloropropane	3.8 U	3.8	0.75	.66	02/16/18 13:47	
1,3,5-Trimethylbenzene	3.8 U	3.8	0.61	.66	02/16/18 13:47	
1,3-Dichlorobenzene	3.8 U	3.8	0.49	.66	02/16/18 13:47	
1,4-Dichlorobenzene	3.8 U	3.8	0.43	.66	02/16/18 13:47	
1,4-Dioxane	77 U	77	15	.66	02/16/18 13:47	
2-Butanone (MEK)	3.8 U	3.8	1.8	.66	02/16/18 13:47	
2-Hexanone	3.8 U	3.8	0.93	.66	02/16/18 13:47	
4-Isopropyltoluene	3.8 U	3.8	0.67	.66	02/16/18 13:47	
4-Methyl-2-pentanone	3.8 U	3.8	0.76	.66	02/16/18 13:47	
Acetone	2.3 J	3.8	2.2	.66	02/16/18 13:47	
Benzene	3.8 U	3.8	0.23	.66	02/16/18 13:47	
Bromochloromethane	3.8 U	3.8	1.1	.66	02/16/18 13:47	
Bromodichloromethane	3.8 U	3.8	0.47	.66	02/16/18 13:47	
Bromoform	3.8 U	3.8	0.72	.66	02/16/18 13:47	
Bromomethane	3.8 U	3.8	1.1	.66	02/16/18 13:47	
Carbon Disulfide	3.8 U	3.8	0.96	.66	02/16/18 13:47	
Carbon Tetrachloride	3.8 U	3.8	0.71	.66	02/16/18 13:47	
Chlorobenzene	3.8 U	3.8	0.23	.66	02/16/18 13:47	
Chloroethane	3.8 U	3.8	2.3	.66	02/16/18 13:47	
Chloroform	3.8 U	3.8	0.97	.66	02/16/18 13:47	
Chloromethane	3.8 U	3.8	0.31	.66	02/16/18 13:47	
Cyclohexane	3.8 U	3.8	1.1	.66	02/16/18 13:47	
Dibromochloromethane	3.8 U	3.8	0.57	.66	02/16/18 13:47	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.66	02/16/18 13:47	
Dichloromethane	3.8 U	3.8	0.44	.66	02/16/18 13:47	
Ethylbenzene	3.8 U	3.8	0.18	.66	02/16/18 13:47	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.52	.66	02/16/18 13:47	
Methyl Acetate	3.8 U	3.8	1.4	.66	02/16/18 13:47	
Methyl tert-Butyl Ether	3.8 U	3.8	0.73	.66	02/16/18 13:47	
Methylcyclohexane	3.8 U	3.8	0.93	.66	02/16/18 13:47	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 15:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.24	.66	02/16/18 13:47	
Tetrachloroethene (PCE)	3.8 U	3.8	0.68	.66	02/16/18 13:47	
Toluene	3.8 U	3.8	0.77	.66	02/16/18 13:47	
Trichloroethene (TCE)	3.8 U	3.8	0.78	.66	02/16/18 13:47	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.51	.66	02/16/18 13:47	
Vinyl Chloride	3.8 U	3.8	1.5	.66	02/16/18 13:47	
cis-1,2-Dichloroethene	3.8 U	3.8	0.73	.66	02/16/18 13:47	
cis-1,3-Dichloropropene	3.8 U	3.8	0.70	.66	02/16/18 13:47	
m,p-Xylenes	7.7 U	7.7	0.84	.66	02/16/18 13:47	
n-Butylbenzene	3.8 U	3.8	0.76	.66	02/16/18 13:47	
n-Propylbenzene	3.8 U	3.8	0.60	.66	02/16/18 13:47	
o-Xylene	3.8 U	3.8	0.37	.66	02/16/18 13:47	
sec-Butylbenzene	3.8 U	3.8	0.56	.66	02/16/18 13:47	
tert-Butylbenzene	3.8 U	3.8	0.45	.66	02/16/18 13:47	
trans-1,2-Dichloroethene	3.8 U	3.8	0.66	.66	02/16/18 13:47	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.66	02/16/18 13:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	51 - 136	02/16/18 13:47	
Dibromofluoromethane	96	63 - 138	02/16/18 13:47	
Toluene-d8	102	66 - 138	02/16/18 13:47	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1400 U	1400	210	222	02/20/18 19:34	
1,1,2,2-Tetrachloroethane	1400 U	1400	240	222	02/20/18 19:34	
1,1,2-Trichloroethane	1400 U	1400	210	222	02/20/18 19:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1400 U	1400	360	222	02/20/18 19:34	
1,1-Dichloroethane (1,1-DCA)	1400 U	1400	360	222	02/20/18 19:34	
1,1-Dichloroethene (1,1-DCE)	1400 U	1400	370	222	02/20/18 19:34	
1,2,3-Trichlorobenzene	1400 U	1400	180	222	02/20/18 19:34	
1,2,4-Trichlorobenzene	1400 U	1400	170	222	02/20/18 19:34	
1,2,4-Trimethylbenzene	<b>27000</b>	1400	160	222	02/20/18 19:34	
1,2-Dibromo-3-chloropropane (DBCP)	1400 U	1400	540	222	02/20/18 19:34	
1,2-Dibromoethane	1400 U	1400	350	222	02/20/18 19:34	
1,2-Dichlorobenzene	1400 U	1400	180	222	02/20/18 19:34	
1,2-Dichloroethane	1400 U	1400	180	222	02/20/18 19:34	
1,2-Dichloropropane	1400 U	1400	280	222	02/20/18 19:34	
1,3,5-Trimethylbenzene	<b>8100</b>	1400	230	222	02/20/18 19:34	
1,3-Dichlorobenzene	1400 U	1400	180	222	02/20/18 19:34	
1,4-Dichlorobenzene	1400 U	1400	160	222	02/20/18 19:34	
1,4-Dioxane	28000 U	28000	5500	222	02/20/18 19:34	
2-Butanone (MEK)	1400 U	1400	660	222	02/20/18 19:34	
2-Hexanone	1400 U	1400	350	222	02/20/18 19:34	
4-Isopropyltoluene	<b>3700</b>	1400	250	222	02/20/18 19:34	
4-Methyl-2-pentanone	1400 U	1400	280	222	02/20/18 19:34	
Acetone	1400 U	1400	800	222	02/20/18 19:34	
Benzene	1400 U	1400	83	222	02/20/18 19:34	
Bromochloromethane	1400 U	1400	390	222	02/20/18 19:34	
Bromodichloromethane	1400 U	1400	180	222	02/20/18 19:34	
Bromoform	1400 U	1400	270	222	02/20/18 19:34	
Bromomethane	1400 U	1400	400	222	02/20/18 19:34	
Carbon Disulfide	1400 U	1400	360	222	02/20/18 19:34	
Carbon Tetrachloride	1400 U	1400	270	222	02/20/18 19:34	
Chlorobenzene	1400 U	1400	83	222	02/20/18 19:34	
Chloroethane	1400 U	1400	820	222	02/20/18 19:34	
Chloroform	1400 U	1400	360	222	02/20/18 19:34	
Chloromethane	1400 U	1400	120	222	02/20/18 19:34	
Cyclohexane	<b>1300 J</b>	1400	400	222	02/20/18 19:34	
Dibromochloromethane	1400 U	1400	210	222	02/20/18 19:34	
Dichlorodifluoromethane (CFC 12)	1400 U	1400	540	222	02/20/18 19:34	
Dichloromethane	1400 U	1400	170	222	02/20/18 19:34	
Ethylbenzene	<b>720 J</b>	1400	66	222	02/20/18 19:34	
Isopropylbenzene (Cumene)	<b>1100 J</b>	1400	200	222	02/20/18 19:34	
Methyl Acetate	1400 U	1400	500	222	02/20/18 19:34	
Methyl tert-Butyl Ether	1400 U	1400	270	222	02/20/18 19:34	
Methylcyclohexane	<b>5200</b>	1400	350	222	02/20/18 19:34	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	1400 U	1400	86	222	02/20/18 19:34	
Tetrachloroethene (PCE)	1400 U	1400	260	222	02/20/18 19:34	
Toluene	1400 U	1400	290	222	02/20/18 19:34	
Trichloroethene (TCE)	1400 U	1400	290	222	02/20/18 19:34	
Trichlorofluoromethane (CFC 11)	1400 U	1400	190	222	02/20/18 19:34	
Vinyl Chloride	1400 U	1400	530	222	02/20/18 19:34	
cis-1,2-Dichloroethene	1400 U	1400	280	222	02/20/18 19:34	
cis-1,3-Dichloropropene	1400 U	1400	260	222	02/20/18 19:34	
m,p-Xylenes	<b>2900</b>	2800	320	222	02/20/18 19:34	
n-Butylbenzene	<b>7500</b>	1400	280	222	02/20/18 19:34	
n-Propylbenzene	<b>2400</b>	1400	230	222	02/20/18 19:34	
o-Xylene	<b>220 J</b>	1400	140	222	02/20/18 19:34	
sec-Butylbenzene	<b>3400</b>	1400	210	222	02/20/18 19:34	
tert-Butylbenzene	<b>760 J</b>	1400	170	222	02/20/18 19:34	
trans-1,2-Dichloroethene	1400 U	1400	250	222	02/20/18 19:34	
trans-1,3-Dichloropropene	1400 U	1400	57	222	02/20/18 19:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	51 - 136	02/20/18 19:34	
Dibromofluoromethane	93	63 - 138	02/20/18 19:34	
Toluene-d8	102	66 - 138	02/20/18 19:34	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 09:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.9 U	4.9	0.72	.82	02/16/18 14:10	
1,1,2,2-Tetrachloroethane	4.9 U	4.9	0.80	.82	02/16/18 14:10	
1,1,2-Trichloroethane	4.9 U	4.9	0.72	.82	02/16/18 14:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9 U	4.9	1.3	.82	02/16/18 14:10	
1,1-Dichloroethane (1,1-DCA)	4.9 U	4.9	1.3	.82	02/16/18 14:10	
1,1-Dichloroethene (1,1-DCE)	4.9 U	4.9	1.3	.82	02/16/18 14:10	
1,2,3-Trichlorobenzene	4.9 U	4.9	0.61	.82	02/16/18 14:10	
1,2,4-Trichlorobenzene	4.9 U	4.9	0.59	.82	02/16/18 14:10	
1,2,4-Trimethylbenzene	4.9 U	4.9	0.54	.82	02/16/18 14:10	
1,2-Dibromo-3-chloropropane (DBCP)	4.9 U	4.9	1.9	.82	02/16/18 14:10	
1,2-Dibromoethane	4.9 U	4.9	1.2	.82	02/16/18 14:10	
1,2-Dichlorobenzene	4.9 U	4.9	0.60	.82	02/16/18 14:10	
1,2-Dichloroethane	4.9 U	4.9	0.60	.82	02/16/18 14:10	
1,2-Dichloropropane	4.9 U	4.9	0.96	.82	02/16/18 14:10	
1,3,5-Trimethylbenzene	4.9 U	4.9	0.78	.82	02/16/18 14:10	
1,3-Dichlorobenzene	4.9 U	4.9	0.62	.82	02/16/18 14:10	
1,4-Dichlorobenzene	4.9 U	4.9	0.56	.82	02/16/18 14:10	
1,4-Dioxane	98 U	98	19	.82	02/16/18 14:10	
2-Butanone (MEK)	4.9 U	4.9	2.3	.82	02/16/18 14:10	
2-Hexanone	4.9 U	4.9	1.2	.82	02/16/18 14:10	
4-Isopropyltoluene	4.9 U	4.9	0.86	.82	02/16/18 14:10	
4-Methyl-2-pentanone	4.9 U	4.9	0.97	.82	02/16/18 14:10	
Acetone	24	4.9	2.8	.82	02/16/18 14:10	
Benzene	4.9 U	4.9	0.29	.82	02/16/18 14:10	
Bromochloromethane	4.9 U	4.9	1.4	.82	02/16/18 14:10	
Bromodichloromethane	4.9 U	4.9	0.60	.82	02/16/18 14:10	
Bromoform	4.9 U	4.9	0.92	.82	02/16/18 14:10	
Bromomethane	4.9 U	4.9	1.4	.82	02/16/18 14:10	
Carbon Disulfide	4.9 U	4.9	1.3	.82	02/16/18 14:10	
Carbon Tetrachloride	4.9 U	4.9	0.91	.82	02/16/18 14:10	
Chlorobenzene	4.9 U	4.9	0.29	.82	02/16/18 14:10	
Chloroethane	4.9 U	4.9	2.9	.82	02/16/18 14:10	
Chloroform	4.9 U	4.9	1.3	.82	02/16/18 14:10	
Chloromethane	4.9 U	4.9	0.40	.82	02/16/18 14:10	
Cyclohexane	4.9 U	4.9	1.4	.82	02/16/18 14:10	
Dibromochloromethane	4.9 U	4.9	0.72	.82	02/16/18 14:10	
Dichlorodifluoromethane (CFC 12)	4.9 U	4.9	1.9	.82	02/16/18 14:10	
Dichloromethane	4.9 U	4.9	0.57	.82	02/16/18 14:10	
Ethylbenzene	4.9 U	4.9	0.23	.82	02/16/18 14:10	
Isopropylbenzene (Cumene)	4.9 U	4.9	0.66	.82	02/16/18 14:10	
Methyl Acetate	4.9 U	4.9	1.8	.82	02/16/18 14:10	
Methyl tert-Butyl Ether	4.9 U	4.9	0.93	.82	02/16/18 14:10	
Methylcyclohexane	4.9 U	4.9	1.2	.82	02/16/18 14:10	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 09:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.9 U	4.9	0.30	.82	02/16/18 14:10	
Tetrachloroethene (PCE)	4.9 U	4.9	0.87	.82	02/16/18 14:10	
Toluene	4.9 U	4.9	0.99	.82	02/16/18 14:10	
Trichloroethene (TCE)	4.9 U	4.9	1.0	.82	02/16/18 14:10	
Trichlorofluoromethane (CFC 11)	4.9 U	4.9	0.65	.82	02/16/18 14:10	
Vinyl Chloride	4.9 U	4.9	1.9	.82	02/16/18 14:10	
cis-1,2-Dichloroethene	4.9 U	4.9	0.94	.82	02/16/18 14:10	
cis-1,3-Dichloropropene	4.9 U	4.9	0.89	.82	02/16/18 14:10	
m,p-Xylenes	9.8 U	9.8	1.1	.82	02/16/18 14:10	
n-Butylbenzene	4.9 U	4.9	0.97	.82	02/16/18 14:10	
n-Propylbenzene	4.9 U	4.9	0.77	.82	02/16/18 14:10	
o-Xylene	4.9 U	4.9	0.48	.82	02/16/18 14:10	
sec-Butylbenzene	4.9 U	4.9	0.71	.82	02/16/18 14:10	
tert-Butylbenzene	4.9 U	4.9	0.58	.82	02/16/18 14:10	
trans-1,2-Dichloroethene	4.9 U	4.9	0.85	.82	02/16/18 14:10	
trans-1,3-Dichloropropene	4.9 U	4.9	0.20	.82	02/16/18 14:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	51 - 136	02/16/18 14:10	
Dibromofluoromethane	98	63 - 138	02/16/18 14:10	
Toluene-d8	100	66 - 138	02/16/18 14:10	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 12:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.56	.67	02/16/18 14:34	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.62	.67	02/16/18 14:34	
1,1,2-Trichloroethane	3.8 U	3.8	0.56	.67	02/16/18 14:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.95	.67	02/16/18 14:34	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.95	.67	02/16/18 14:34	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.98	.67	02/16/18 14:34	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.48	.67	02/16/18 14:34	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.45	.67	02/16/18 14:34	
1,2,4-Trimethylbenzene	<b>0.66 J</b>	3.8	0.42	.67	02/16/18 14:34	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.67	02/16/18 14:34	
1,2-Dibromoethane	3.8 U	3.8	0.92	.67	02/16/18 14:34	
1,2-Dichlorobenzene	3.8 U	3.8	0.47	.67	02/16/18 14:34	
1,2-Dichloroethane	3.8 U	3.8	0.47	.67	02/16/18 14:34	
1,2-Dichloropropane	3.8 U	3.8	0.74	.67	02/16/18 14:34	
1,3,5-Trimethylbenzene	3.8 U	3.8	0.61	.67	02/16/18 14:34	
1,3-Dichlorobenzene	3.8 U	3.8	0.48	.67	02/16/18 14:34	
1,4-Dichlorobenzene	3.8 U	3.8	0.43	.67	02/16/18 14:34	
1,4-Dioxane	76 U	76	15	.67	02/16/18 14:34	
2-Butanone (MEK)	<b>2.1 J</b>	3.8	1.8	.67	02/16/18 14:34	
2-Hexanone	3.8 U	3.8	0.92	.67	02/16/18 14:34	
4-Isopropyltoluene	3.8 U	3.8	0.67	.67	02/16/18 14:34	
4-Methyl-2-pentanone	3.8 U	3.8	0.75	.67	02/16/18 14:34	
Acetone	<b>9.1</b>	3.8	2.2	.67	02/16/18 14:34	
Benzene	<b>0.45 J</b>	3.8	0.23	.67	02/16/18 14:34	
Bromochloromethane	3.8 U	3.8	1.1	.67	02/16/18 14:34	
Bromodichloromethane	3.8 U	3.8	0.47	.67	02/16/18 14:34	
Bromoform	3.8 U	3.8	0.71	.67	02/16/18 14:34	
Bromomethane	3.8 U	3.8	1.1	.67	02/16/18 14:34	
Carbon Disulfide	3.8 U	3.8	0.95	.67	02/16/18 14:34	
Carbon Tetrachloride	3.8 U	3.8	0.70	.67	02/16/18 14:34	
Chlorobenzene	3.8 U	3.8	0.23	.67	02/16/18 14:34	
Chloroethane	3.8 U	3.8	2.2	.67	02/16/18 14:34	
Chloroform	3.8 U	3.8	0.96	.67	02/16/18 14:34	
Chloromethane	3.8 U	3.8	0.31	.67	02/16/18 14:34	
Cyclohexane	<b>1.7 J</b>	3.8	1.1	.67	02/16/18 14:34	
Dibromochloromethane	3.8 U	3.8	0.56	.67	02/16/18 14:34	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.67	02/16/18 14:34	
Dichloromethane	3.8 U	3.8	0.44	.67	02/16/18 14:34	
Ethylbenzene	3.8 U	3.8	0.18	.67	02/16/18 14:34	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.51	.67	02/16/18 14:34	
Methyl Acetate	3.8 U	3.8	1.4	.67	02/16/18 14:34	
Methyl tert-Butyl Ether	3.8 U	3.8	0.72	.67	02/16/18 14:34	
Methylcyclohexane	<b>2.0 J</b>	3.8	0.92	.67	02/16/18 14:34	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 12:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.23	.67	02/16/18 14:34	
Tetrachloroethene (PCE)	3.8 U	3.8	0.67	.67	02/16/18 14:34	
Toluene	<b>1.6 J</b>	3.8	0.76	.67	02/16/18 14:34	
Trichloroethene (TCE)	3.8 U	3.8	0.77	.67	02/16/18 14:34	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.51	.67	02/16/18 14:34	
Vinyl Chloride	3.8 U	3.8	1.4	.67	02/16/18 14:34	
cis-1,2-Dichloroethene	3.8 U	3.8	0.73	.67	02/16/18 14:34	
cis-1,3-Dichloropropene	3.8 U	3.8	0.69	.67	02/16/18 14:34	
m,p-Xylenes	<b>1.5 J</b>	7.6	0.83	.67	02/16/18 14:34	
n-Butylbenzene	3.8 U	3.8	0.75	.67	02/16/18 14:34	
n-Propylbenzene	3.8 U	3.8	0.60	.67	02/16/18 14:34	
o-Xylene	3.8 U	3.8	0.37	.67	02/16/18 14:34	
sec-Butylbenzene	3.8 U	3.8	0.55	.67	02/16/18 14:34	
tert-Butylbenzene	3.8 U	3.8	0.45	.67	02/16/18 14:34	
trans-1,2-Dichloroethene	3.8 U	3.8	0.66	.67	02/16/18 14:34	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	02/16/18 14:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	51 - 136	02/16/18 14:34	
Dibromofluoromethane	98	63 - 138	02/16/18 14:34	
Toluene-d8	103	66 - 138	02/16/18 14:34	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 13:30  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.56	.72	02/16/18 14:57	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.62	.72	02/16/18 14:57	
1,1,2-Trichloroethane	3.8 U	3.8	0.56	.72	02/16/18 14:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.94	.72	02/16/18 14:57	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.95	.72	02/16/18 14:57	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.97	.72	02/16/18 14:57	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.47	.72	02/16/18 14:57	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.45	.72	02/16/18 14:57	
1,2,4-Trimethylbenzene	7.1	3.8	0.41	.72	02/16/18 14:57	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.72	02/16/18 14:57	
1,2-Dibromoethane	3.8 U	3.8	0.92	.72	02/16/18 14:57	
1,2-Dichlorobenzene	3.8 U	3.8	0.46	.72	02/16/18 14:57	
1,2-Dichloroethane	3.8 U	3.8	0.46	.72	02/16/18 14:57	
1,2-Dichloropropane	3.8 U	3.8	0.74	.72	02/16/18 14:57	
1,3,5-Trimethylbenzene	3.5 J	3.8	0.60	.72	02/16/18 14:57	
1,3-Dichlorobenzene	3.8 U	3.8	0.48	.72	02/16/18 14:57	
1,4-Dichlorobenzene	3.8 U	3.8	0.43	.72	02/16/18 14:57	
1,4-Dioxane	75 U	75	15	.72	02/16/18 14:57	
2-Butanone (MEK)	1.8 J	3.8	1.8	.72	02/16/18 14:57	
2-Hexanone	3.8 U	3.8	0.92	.72	02/16/18 14:57	
4-Isopropyltoluene	3.8 U	3.8	0.66	.72	02/16/18 14:57	
4-Methyl-2-pentanone	3.8 U	3.8	0.74	.72	02/16/18 14:57	
Acetone	10	3.8	2.2	.72	02/16/18 14:57	
Benzene	6.4	3.8	0.22	.72	02/16/18 14:57	
Bromochloromethane	3.8 U	3.8	1.1	.72	02/16/18 14:57	
Bromodichloromethane	3.8 U	3.8	0.46	.72	02/16/18 14:57	
Bromoform	3.8 U	3.8	0.71	.72	02/16/18 14:57	
Bromomethane	3.8 U	3.8	1.1	.72	02/16/18 14:57	
Carbon Disulfide	3.8 U	3.8	0.94	.72	02/16/18 14:57	
Carbon Tetrachloride	3.8 U	3.8	0.70	.72	02/16/18 14:57	
Chlorobenzene	3.8 U	3.8	0.22	.72	02/16/18 14:57	
Chloroethane	3.8 U	3.8	2.2	.72	02/16/18 14:57	
Chloroform	3.8 U	3.8	0.95	.72	02/16/18 14:57	
Chloromethane	3.8 U	3.8	0.31	.72	02/16/18 14:57	
Cyclohexane	12	3.8	1.1	.72	02/16/18 14:57	
Dibromochloromethane	3.8 U	3.8	0.56	.72	02/16/18 14:57	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.72	02/16/18 14:57	
Dichloromethane	0.50 J	3.8	0.43	.72	02/16/18 14:57	
Ethylbenzene	1.8 J	3.8	0.18	.72	02/16/18 14:57	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.51	.72	02/16/18 14:57	
Methyl Acetate	3.8 U	3.8	1.4	.72	02/16/18 14:57	
Methyl tert-Butyl Ether	3.8 U	3.8	0.71	.72	02/16/18 14:57	
Methylcyclohexane	20	3.8	0.91	.72	02/16/18 14:57	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 13:30  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.23	.72	02/16/18 14:57	
Tetrachloroethene (PCE)	3.8 U	3.8	0.67	.72	02/16/18 14:57	
Toluene	<b>15</b>	3.8	0.76	.72	02/16/18 14:57	
Trichloroethene (TCE)	3.8 U	3.8	0.77	.72	02/16/18 14:57	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.50	.72	02/16/18 14:57	
Vinyl Chloride	3.8 U	3.8	1.4	.72	02/16/18 14:57	
cis-1,2-Dichloroethene	3.8 U	3.8	0.72	.72	02/16/18 14:57	
cis-1,3-Dichloropropene	3.8 U	3.8	0.68	.72	02/16/18 14:57	
m,p-Xylenes	<b>14</b>	7.5	0.83	.72	02/16/18 14:57	
n-Butylbenzene	3.8 U	3.8	0.74	.72	02/16/18 14:57	
n-Propylbenzene	3.8 U	3.8	0.59	.72	02/16/18 14:57	
o-Xylene	<b>4.2</b>	3.8	0.37	.72	02/16/18 14:57	
sec-Butylbenzene	3.8 U	3.8	0.55	.72	02/16/18 14:57	
tert-Butylbenzene	3.8 U	3.8	0.44	.72	02/16/18 14:57	
trans-1,2-Dichloroethene	3.8 U	3.8	0.65	.72	02/16/18 14:57	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.72	02/16/18 14:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	51 - 136	02/16/18 14:57	
Dibromofluoromethane	98	63 - 138	02/16/18 14:57	
Toluene-d8	101	66 - 138	02/16/18 14:57	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:00  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.7 U	4.7	0.69	.76	02/16/18 15:20	
1,1,2,2-Tetrachloroethane	4.7 U	4.7	0.76	.76	02/16/18 15:20	
1,1,2-Trichloroethane	4.7 U	4.7	0.69	.76	02/16/18 15:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,1-Dichloroethane (1,1-DCA)	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,1-Dichloroethene (1,1-DCE)	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,2,3-Trichlorobenzene	4.7 U	4.7	0.59	.76	02/16/18 15:20	
1,2,4-Trichlorobenzene	4.7 U	4.7	0.56	.76	02/16/18 15:20	
1,2,4-Trimethylbenzene	<b>0.52 J</b>	4.7	0.51	.76	02/16/18 15:20	
1,2-Dibromo-3-chloropropane (DBCP)	4.7 U	4.7	1.8	.76	02/16/18 15:20	
1,2-Dibromoethane	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,2-Dichlorobenzene	4.7 U	4.7	0.58	.76	02/16/18 15:20	
1,2-Dichloroethane	4.7 U	4.7	0.58	.76	02/16/18 15:20	
1,2-Dichloropropane	4.7 U	4.7	0.91	.76	02/16/18 15:20	
1,3,5-Trimethylbenzene	4.7 U	4.7	0.75	.76	02/16/18 15:20	
1,3-Dichlorobenzene	4.7 U	4.7	0.60	.76	02/16/18 15:20	
1,4-Dichlorobenzene	4.7 U	4.7	0.53	.76	02/16/18 15:20	
1,4-Dioxane	94 U	94	18	.76	02/16/18 15:20	
2-Butanone (MEK)	4.7 U	4.7	2.2	.76	02/16/18 15:20	
2-Hexanone	4.7 U	4.7	1.2	.76	02/16/18 15:20	
4-Isopropyltoluene	4.7 U	4.7	0.82	.76	02/16/18 15:20	
4-Methyl-2-pentanone	4.7 U	4.7	0.92	.76	02/16/18 15:20	
Acetone	<b>9.3</b>	4.7	2.7	.76	02/16/18 15:20	
Benzene	<b>0.58 J</b>	4.7	0.28	.76	02/16/18 15:20	
Bromochloromethane	4.7 U	4.7	1.3	.76	02/16/18 15:20	
Bromodichloromethane	4.7 U	4.7	0.58	.76	02/16/18 15:20	
Bromoform	4.7 U	4.7	0.88	.76	02/16/18 15:20	
Bromomethane	4.7 U	4.7	1.3	.76	02/16/18 15:20	
Carbon Disulfide	4.7 U	4.7	1.2	.76	02/16/18 15:20	
Carbon Tetrachloride	4.7 U	4.7	0.87	.76	02/16/18 15:20	
Chlorobenzene	4.7 U	4.7	0.28	.76	02/16/18 15:20	
Chloroethane	4.7 U	4.7	2.7	.76	02/16/18 15:20	
Chloroform	4.7 U	4.7	1.2	.76	02/16/18 15:20	
Chloromethane	4.7 U	4.7	0.38	.76	02/16/18 15:20	
Cyclohexane	4.7 U	4.7	1.3	.76	02/16/18 15:20	
Dibromochloromethane	4.7 U	4.7	0.69	.76	02/16/18 15:20	
Dichlorodifluoromethane (CFC 12)	4.7 U	4.7	1.8	.76	02/16/18 15:20	
Dichloromethane	4.7 U	4.7	0.54	.76	02/16/18 15:20	
Ethylbenzene	4.7 U	4.7	0.22	.76	02/16/18 15:20	
Isopropylbenzene (Cumene)	4.7 U	4.7	0.63	.76	02/16/18 15:20	
Methyl Acetate	4.7 U	4.7	1.7	.76	02/16/18 15:20	
Methyl tert-Butyl Ether	4.7 U	4.7	0.89	.76	02/16/18 15:20	
Methylcyclohexane	<b>1.4 J</b>	4.7	1.2	.76	02/16/18 15:20	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:00  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.7 U	4.7	0.29	.76	02/16/18 15:20	
Tetrachloroethene (PCE)	<b>0.95 J</b>	4.7	0.83	.76	02/16/18 15:20	
Toluene	<b>1.5 J</b>	4.7	0.94	.76	02/16/18 15:20	
Trichloroethene (TCE)	4.7 U	4.7	0.95	.76	02/16/18 15:20	
Trichlorofluoromethane (CFC 11)	4.7 U	4.7	0.62	.76	02/16/18 15:20	
Vinyl Chloride	4.7 U	4.7	1.8	.76	02/16/18 15:20	
cis-1,2-Dichloroethene	4.7 U	4.7	0.90	.76	02/16/18 15:20	
cis-1,3-Dichloropropene	4.7 U	4.7	0.85	.76	02/16/18 15:20	
m,p-Xylenes	<b>1.1 J</b>	9.4	1.1	.76	02/16/18 15:20	
n-Butylbenzene	4.7 U	4.7	0.92	.76	02/16/18 15:20	
n-Propylbenzene	4.7 U	4.7	0.74	.76	02/16/18 15:20	
o-Xylene	4.7 U	4.7	0.45	.76	02/16/18 15:20	
sec-Butylbenzene	4.7 U	4.7	0.68	.76	02/16/18 15:20	
tert-Butylbenzene	4.7 U	4.7	0.55	.76	02/16/18 15:20	
trans-1,2-Dichloroethene	4.7 U	4.7	0.81	.76	02/16/18 15:20	
trans-1,3-Dichloropropene	4.7 U	4.7	0.19	.76	02/16/18 15:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	51 - 136	02/16/18 15:20	
Dibromofluoromethane	98	63 - 138	02/16/18 15:20	
Toluene-d8	103	66 - 138	02/16/18 15:20	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.57	.7	02/16/18 15:43	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.63	.7	02/16/18 15:43	
1,1,2-Trichloroethane	3.8 U	3.8	0.57	.7	02/16/18 15:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.96	.7	02/16/18 15:43	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.97	.7	02/16/18 15:43	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.99	.7	02/16/18 15:43	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.48	.7	02/16/18 15:43	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.46	.7	02/16/18 15:43	
1,2,4-Trimethylbenzene	3.8 U	3.8	0.42	.7	02/16/18 15:43	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.7	02/16/18 15:43	
1,2-Dibromoethane	3.8 U	3.8	0.94	.7	02/16/18 15:43	
1,2-Dichlorobenzene	3.8 U	3.8	0.47	.7	02/16/18 15:43	
1,2-Dichloroethane	3.8 U	3.8	0.47	.7	02/16/18 15:43	
1,2-Dichloropropane	3.8 U	3.8	0.75	.7	02/16/18 15:43	
1,3,5-Trimethylbenzene	3.8 U	3.8	0.61	.7	02/16/18 15:43	
1,3-Dichlorobenzene	3.8 U	3.8	0.49	.7	02/16/18 15:43	
1,4-Dichlorobenzene	3.8 U	3.8	0.44	.7	02/16/18 15:43	
1,4-Dioxane	77 U	77	15	.7	02/16/18 15:43	
2-Butanone (MEK)	3.8 U	3.8	1.8	.7	02/16/18 15:43	
2-Hexanone	3.8 U	3.8	0.94	.7	02/16/18 15:43	
4-Isopropyltoluene	3.8 U	3.8	0.67	.7	02/16/18 15:43	
4-Methyl-2-pentanone	3.8 U	3.8	0.76	.7	02/16/18 15:43	
Acetone	3.8 U	3.8	2.2	.7	02/16/18 15:43	
Benzene	3.8 U	3.8	0.23	.7	02/16/18 15:43	
Bromochloromethane	3.8 U	3.8	1.1	.7	02/16/18 15:43	
Bromodichloromethane	3.8 U	3.8	0.47	.7	02/16/18 15:43	
Bromoform	3.8 U	3.8	0.72	.7	02/16/18 15:43	
Bromomethane	3.8 U	3.8	1.1	.7	02/16/18 15:43	
Carbon Disulfide	3.8 U	3.8	0.96	.7	02/16/18 15:43	
Carbon Tetrachloride	3.8 U	3.8	0.71	.7	02/16/18 15:43	
Chlorobenzene	3.8 U	3.8	0.23	.7	02/16/18 15:43	
Chloroethane	3.8 U	3.8	2.3	.7	02/16/18 15:43	
Chloroform	3.8 U	3.8	0.97	.7	02/16/18 15:43	
Chloromethane	3.8 U	3.8	0.31	.7	02/16/18 15:43	
Cyclohexane	3.8 U	3.8	1.1	.7	02/16/18 15:43	
Dibromochloromethane	3.8 U	3.8	0.57	.7	02/16/18 15:43	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.7	02/16/18 15:43	
Dichloromethane	3.8 U	3.8	0.44	.7	02/16/18 15:43	
Ethylbenzene	3.8 U	3.8	0.18	.7	02/16/18 15:43	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.52	.7	02/16/18 15:43	
Methyl Acetate	3.8 U	3.8	1.4	.7	02/16/18 15:43	
Methyl tert-Butyl Ether	3.8 U	3.8	0.73	.7	02/16/18 15:43	
Methylcyclohexane	3.8 U	3.8	0.93	.7	02/16/18 15:43	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.24	.7	02/16/18 15:43	
Tetrachloroethene (PCE)	3.8 U	3.8	0.68	.7	02/16/18 15:43	
Toluene	3.8 U	3.8	0.77	.7	02/16/18 15:43	
Trichloroethene (TCE)	3.8 U	3.8	0.78	.7	02/16/18 15:43	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.51	.7	02/16/18 15:43	
Vinyl Chloride	3.8 U	3.8	1.5	.7	02/16/18 15:43	
cis-1,2-Dichloroethene	3.8 U	3.8	0.74	.7	02/16/18 15:43	
cis-1,3-Dichloropropene	3.8 U	3.8	0.70	.7	02/16/18 15:43	
m,p-Xylenes	7.7 U	7.7	0.84	.7	02/16/18 15:43	
n-Butylbenzene	3.8 U	3.8	0.76	.7	02/16/18 15:43	
n-Propylbenzene	3.8 U	3.8	0.61	.7	02/16/18 15:43	
o-Xylene	3.8 U	3.8	0.37	.7	02/16/18 15:43	
sec-Butylbenzene	3.8 U	3.8	0.56	.7	02/16/18 15:43	
tert-Butylbenzene	3.8 U	3.8	0.45	.7	02/16/18 15:43	
trans-1,2-Dichloroethene	3.8 U	3.8	0.67	.7	02/16/18 15:43	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.7	02/16/18 15:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	51 - 136	02/16/18 15:43	
Dibromofluoromethane	97	63 - 138	02/16/18 15:43	
Toluene-d8	101	66 - 138	02/16/18 15:43	



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:08  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	120	1	02/21/18 19:33	2/20/18	
2,3,4,6-Tetrachlorophenol	400 U	400	97	1	02/21/18 19:33	2/20/18	
2,4,5-Trichlorophenol	390 U	390	98	1	02/21/18 19:33	2/20/18	
2,4,6-Trichlorophenol	390 U	390	110	1	02/21/18 19:33	2/20/18	
2,4-Dichlorophenol	390 U	390	81	1	02/21/18 19:33	2/20/18	
2,4-Dimethylphenol	390 U	390	75	1	02/21/18 19:33	2/20/18	
2,4-Dinitrophenol	2000 U	2000	74	1	02/21/18 19:33	2/20/18	
2,4-Dinitrotoluene	390 U	390	110	1	02/21/18 19:33	2/20/18	
2,6-Dinitrotoluene	390 U	390	140	1	02/21/18 19:33	2/20/18	
2-Chloronaphthalene	390 U	390	87	1	02/21/18 19:33	2/20/18	
2-Chlorophenol	390 U	390	96	1	02/21/18 19:33	2/20/18	
2-Methylnaphthalene	390 U	390	88	1	02/21/18 19:33	2/20/18	
2-Methylphenol	390 U	390	95	1	02/21/18 19:33	2/20/18	
2-Nitroaniline	2000 U	2000	120	1	02/21/18 19:33	2/20/18	
2-Nitrophenol	390 U	390	89	1	02/21/18 19:33	2/20/18	
3,3'-Dichlorobenzidine	390 U	390	130	1	02/21/18 19:33	2/20/18	
3- and 4-Methylphenol Coelution	390 U	390	99	1	02/21/18 19:33	2/20/18	
3-Nitroaniline	2000 U	2000	85	1	02/21/18 19:33	2/20/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	85	1	02/21/18 19:33	2/20/18	
4-Bromophenyl Phenyl Ether	390 U	390	120	1	02/21/18 19:33	2/20/18	
4-Chloro-3-methylphenol	390 U	390	90	1	02/21/18 19:33	2/20/18	
4-Chloroaniline	390 U	390	47	1	02/21/18 19:33	2/20/18	
4-Chlorophenyl Phenyl Ether	390 U	390	94	1	02/21/18 19:33	2/20/18	
4-Nitroaniline	2000 U	2000	87	1	02/21/18 19:33	2/20/18	
4-Nitrophenol	2000 U	2000	230	1	02/21/18 19:33	2/20/18	
Acenaphthene	390 U	390	87	1	02/21/18 19:33	2/20/18	
Acenaphthylene	390 U	390	80	1	02/21/18 19:33	2/20/18	
Acetophenone	390 U	390	92	1	02/21/18 19:33	2/20/18	
Anthracene	390 U	390	76	1	02/21/18 19:33	2/20/18	
Atrazine	390 U	390	110	1	02/21/18 19:33	2/20/18	
Benz(a)anthracene	86 J	390	69	1	02/21/18 19:33	2/20/18	
Benzaldehyde	2000 U	2000	93	1	02/21/18 19:33	2/20/18	
Benzo(a)pyrene	91 J	390	79	1	02/21/18 19:33	2/20/18	
Benzo(b)fluoranthene	120 J	390	72	1	02/21/18 19:33	2/20/18	
Benzo(g,h,i)perylene	92 J	390	90	1	02/21/18 19:33	2/20/18	
Benzo(k)fluoranthene	390 U	390	88	1	02/21/18 19:33	2/20/18	
Biphenyl	390 U	390	92	1	02/21/18 19:33	2/20/18	
2,2'-Oxybis(1-chloropropane)	390 U	390	96	1	02/21/18 19:33	2/20/18	
Bis(2-chloroethoxy)methane	390 U	390	90	1	02/21/18 19:33	2/20/18	
Bis(2-chloroethyl) Ether	390 U	390	72	1	02/21/18 19:33	2/20/18	
Bis(2-ethylhexyl) Phthalate	590 U	590	550	1	02/21/18 19:33	2/20/18	
Butyl Benzyl Phthalate	390 U	390	75	1	02/21/18 19:33	2/20/18	
Caprolactam	390 U	390	87	1	02/21/18 19:33	2/20/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:08  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	97	1	02/21/18 19:33	2/20/18	
Chrysene	<b>100 J</b>	390	77	1	02/21/18 19:33	2/20/18	
Di-n-butyl Phthalate	390 U	390	140	1	02/21/18 19:33	2/20/18	
Di-n-octyl Phthalate	390 U	390	120	1	02/21/18 19:33	2/20/18	
Dibenz(a,h)anthracene	390 U	390	71	1	02/21/18 19:33	2/20/18	
Dibenzofuran	390 U	390	80	1	02/21/18 19:33	2/20/18	
Diethyl Phthalate	390 U	390	220	1	02/21/18 19:33	2/20/18	
Dimethyl Phthalate	390 U	390	110	1	02/21/18 19:33	2/20/18	
Fluoranthene	<b>160 J</b>	390	92	1	02/21/18 19:33	2/20/18	
Fluorene	390 U	390	99	1	02/21/18 19:33	2/20/18	
Hexachlorobenzene	390 U	390	92	1	02/21/18 19:33	2/20/18	
Hexachlorobutadiene	390 U	390	67	1	02/21/18 19:33	2/20/18	
Hexachlorocyclopentadiene	390 U	390	65	1	02/21/18 19:33	2/20/18	
Hexachloroethane	390 U	390	69	1	02/21/18 19:33	2/20/18	
Indeno(1,2,3-cd)pyrene	<b>90 J</b>	390	87	1	02/21/18 19:33	2/20/18	
Isophorone	390 U	390	85	1	02/21/18 19:33	2/20/18	
N-Nitrosodi-n-propylamine	390 U	390	72	1	02/21/18 19:33	2/20/18	
N-Nitrosodiphenylamine	390 U	390	180	1	02/21/18 19:33	2/20/18	
Naphthalene	390 U	390	81	1	02/21/18 19:33	2/20/18	
Nitrobenzene	390 U	390	81	1	02/21/18 19:33	2/20/18	
Pentachlorophenol (PCP)	2000 U	2000	130	1	02/21/18 19:33	2/20/18	
Phenanthrene	<b>91 J</b>	390	82	1	02/21/18 19:33	2/20/18	
Phenol	390 U	390	86	1	02/21/18 19:33	2/20/18	
Pyrene	<b>150 J</b>	390	77	1	02/21/18 19:33	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	41	13 - 128	02/21/18 19:33	
2-Fluorobiphenyl	24	10 - 102	02/21/18 19:33	
2-Fluorophenol	24	16 - 129	02/21/18 19:33	
Nitrobenzene-d5	28	10 - 95	02/21/18 19:33	
Phenol-d6	24	10 - 145	02/21/18 19:33	
Terphenyl-d14	41	16 - 126	02/21/18 19:33	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:48  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	510 U	510	150	1	02/22/18 11:38	2/20/18	
2,3,4,6-Tetrachlorophenol	520 U	520	130	1	02/22/18 11:38	2/20/18	
2,4,5-Trichlorophenol	510 U	510	130	1	02/22/18 11:38	2/20/18	
2,4,6-Trichlorophenol	510 U	510	140	1	02/22/18 11:38	2/20/18	
2,4-Dichlorophenol	510 U	510	110	1	02/22/18 11:38	2/20/18	
2,4-Dimethylphenol	510 U	510	98	1	02/22/18 11:38	2/20/18	
2,4-Dinitrophenol	2600 U	2600	96	1	02/22/18 11:38	2/20/18	
2,4-Dinitrotoluene	510 U	510	140	1	02/22/18 11:38	2/20/18	
2,6-Dinitrotoluene	510 U	510	180	1	02/22/18 11:38	2/20/18	
2-Chloronaphthalene	510 U	510	120	1	02/22/18 11:38	2/20/18	
2-Chlorophenol	510 U	510	130	1	02/22/18 11:38	2/20/18	
2-Methylnaphthalene	510 U	510	120	1	02/22/18 11:38	2/20/18	
2-Methylphenol	510 U	510	130	1	02/22/18 11:38	2/20/18	
2-Nitroaniline	2600 U	2600	150	1	02/22/18 11:38	2/20/18	
2-Nitrophenol	510 U	510	120	1	02/22/18 11:38	2/20/18	
3,3'-Dichlorobenzidine	510 U	510	160	1	02/22/18 11:38	2/20/18	
3- and 4-Methylphenol Coelution	<b>170 J</b>	510	130	1	02/22/18 11:38	2/20/18	
3-Nitroaniline	2600 U	2600	120	1	02/22/18 11:38	2/20/18	
4,6-Dinitro-2-methylphenol	2600 U	2600	120	1	02/22/18 11:38	2/20/18	
4-Bromophenyl Phenyl Ether	510 U	510	150	1	02/22/18 11:38	2/20/18	
4-Chloro-3-methylphenol	510 U	510	120	1	02/22/18 11:38	2/20/18	
4-Chloroaniline	510 U	510	61	1	02/22/18 11:38	2/20/18	
4-Chlorophenyl Phenyl Ether	510 U	510	130	1	02/22/18 11:38	2/20/18	
4-Nitroaniline	2600 U	2600	120	1	02/22/18 11:38	2/20/18	
4-Nitrophenol	2600 U	2600	300	1	02/22/18 11:38	2/20/18	
Acenaphthene	510 U	510	120	1	02/22/18 11:38	2/20/18	
Acenaphthylene	510 U	510	110	1	02/22/18 11:38	2/20/18	
Acetophenone	510 U	510	120	1	02/22/18 11:38	2/20/18	
Anthracene	<b>170 J</b>	510	99	1	02/22/18 11:38	2/20/18	
Atrazine	510 U	510	140	1	02/22/18 11:38	2/20/18	
Benz(a)anthracene	<b>450 J</b>	510	90	1	02/22/18 11:38	2/20/18	
Benzaldehyde	2600 U	2600	130	1	02/22/18 11:38	2/20/18	
Benzo(a)pyrene	<b>400 J</b>	510	110	1	02/22/18 11:38	2/20/18	
Benzo(b)fluoranthene	<b>480 J</b>	510	93	1	02/22/18 11:38	2/20/18	
Benzo(g,h,i)perylene	<b>270 J</b>	510	120	1	02/22/18 11:38	2/20/18	
Benzo(k)fluoranthene	<b>190 J</b>	510	120	1	02/22/18 11:38	2/20/18	
Biphenyl	510 U	510	120	1	02/22/18 11:38	2/20/18	
2,2'-Oxybis(1-chloropropane)	510 U	510	130	1	02/22/18 11:38	2/20/18	
Bis(2-chloroethoxy)methane	510 U	510	120	1	02/22/18 11:38	2/20/18	
Bis(2-chloroethyl) Ether	510 U	510	93	1	02/22/18 11:38	2/20/18	
Bis(2-ethylhexyl) Phthalate	780 U	780	710	1	02/22/18 11:38	2/20/18	
Butyl Benzyl Phthalate	510 U	510	98	1	02/22/18 11:38	2/20/18	
Caprolactam	510 U	510	120	1	02/22/18 11:38	2/20/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:48  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>150 J</b>	510	130	1	02/22/18 11:38	2/20/18	
Chrysene	<b>490 J</b>	510	110	1	02/22/18 11:38	2/20/18	
Di-n-butyl Phthalate	510 U	510	180	1	02/22/18 11:38	2/20/18	
Di-n-octyl Phthalate	510 U	510	160	1	02/22/18 11:38	2/20/18	
Dibenz(a,h)anthracene	510 U	510	93	1	02/22/18 11:38	2/20/18	
Dibenzofuran	510 U	510	110	1	02/22/18 11:38	2/20/18	
Diethyl Phthalate	510 U	510	280	1	02/22/18 11:38	2/20/18	
Dimethyl Phthalate	510 U	510	150	1	02/22/18 11:38	2/20/18	
Fluoranthene	<b>980</b>	510	120	1	02/22/18 11:38	2/20/18	
Fluorene	510 U	510	130	1	02/22/18 11:38	2/20/18	
Hexachlorobenzene	510 U	510	120	1	02/22/18 11:38	2/20/18	
Hexachlorobutadiene	510 U	510	87	1	02/22/18 11:38	2/20/18	
Hexachlorocyclopentadiene	510 U	510	85	1	02/22/18 11:38	2/20/18	
Hexachloroethane	510 U	510	90	1	02/22/18 11:38	2/20/18	
Indeno(1,2,3-cd)pyrene	<b>290 J</b>	510	120	1	02/22/18 11:38	2/20/18	
Isophorone	510 U	510	120	1	02/22/18 11:38	2/20/18	
N-Nitrosodi-n-propylamine	510 U	510	93	1	02/22/18 11:38	2/20/18	
N-Nitrosodiphenylamine	510 U	510	230	1	02/22/18 11:38	2/20/18	
Naphthalene	510 U	510	110	1	02/22/18 11:38	2/20/18	
Nitrobenzene	510 U	510	110	1	02/22/18 11:38	2/20/18	
Pentachlorophenol (PCP)	2600 U	2600	170	1	02/22/18 11:38	2/20/18	
Phenanthrene	<b>880</b>	510	110	1	02/22/18 11:38	2/20/18	
Phenol	510 U	510	120	1	02/22/18 11:38	2/20/18	
Pyrene	<b>800</b>	510	100	1	02/22/18 11:38	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	48	13 - 128	02/22/18 11:38	
2-Fluorobiphenyl	13	10 - 102	02/22/18 11:38	
2-Fluorophenol	32	16 - 129	02/22/18 11:38	
Nitrobenzene-d5	34	10 - 95	02/22/18 11:38	
Phenol-d6	39	10 - 145	02/22/18 11:38	
Terphenyl-d14	21	16 - 126	02/22/18 11:38	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	720 U	720	220	2	02/22/18 12:06	2/20/18	
2,3,4,6-Tetrachlorophenol	730 U	730	180	2	02/22/18 12:06	2/20/18	
2,4,5-Trichlorophenol	720 U	720	180	2	02/22/18 12:06	2/20/18	
2,4,6-Trichlorophenol	720 U	720	190	2	02/22/18 12:06	2/20/18	
2,4-Dichlorophenol	720 U	720	150	2	02/22/18 12:06	2/20/18	
2,4-Dimethylphenol	720 U	720	140	2	02/22/18 12:06	2/20/18	
2,4-Dinitrophenol	3700 U	3700	140	2	02/22/18 12:06	2/20/18	
2,4-Dinitrotoluene	720 U	720	190	2	02/22/18 12:06	2/20/18	
2,6-Dinitrotoluene	720 U	720	260	2	02/22/18 12:06	2/20/18	
2-Chloronaphthalene	720 U	720	160	2	02/22/18 12:06	2/20/18	
2-Chlorophenol	720 U	720	180	2	02/22/18 12:06	2/20/18	
2-Methylnaphthalene	720 U	720	170	2	02/22/18 12:06	2/20/18	
2-Methylphenol	720 U	720	180	2	02/22/18 12:06	2/20/18	
2-Nitroaniline	3700 U	3700	210	2	02/22/18 12:06	2/20/18	
2-Nitrophenol	720 U	720	170	2	02/22/18 12:06	2/20/18	
3,3'-Dichlorobenzidine	720 U	720	230	2	02/22/18 12:06	2/20/18	
3- and 4-Methylphenol Coelution	720 U	720	190	2	02/22/18 12:06	2/20/18	
3-Nitroaniline	3700 U	3700	160	2	02/22/18 12:06	2/20/18	
4,6-Dinitro-2-methylphenol	3700 U	3700	160	2	02/22/18 12:06	2/20/18	
4-Bromophenyl Phenyl Ether	720 U	720	210	2	02/22/18 12:06	2/20/18	
4-Chloro-3-methylphenol	720 U	720	170	2	02/22/18 12:06	2/20/18	
4-Chloroaniline	720 U	720	87	2	02/22/18 12:06	2/20/18	
4-Chlorophenyl Phenyl Ether	720 U	720	180	2	02/22/18 12:06	2/20/18	
4-Nitroaniline	3700 U	3700	160	2	02/22/18 12:06	2/20/18	
4-Nitrophenol	3700 U	3700	430	2	02/22/18 12:06	2/20/18	
Acenaphthene	720 U	720	160	2	02/22/18 12:06	2/20/18	
Acenaphthylene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Acetophenone	720 U	720	170	2	02/22/18 12:06	2/20/18	
Anthracene	720 U	720	140	2	02/22/18 12:06	2/20/18	
Atrazine	720 U	720	200	2	02/22/18 12:06	2/20/18	
Benz(a)anthracene	720 U	720	130	2	02/22/18 12:06	2/20/18	
Benzaldehyde	3700 U	3700	180	2	02/22/18 12:06	2/20/18	
Benzo(a)pyrene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Benzo(b)fluoranthene	160 J	720	140	2	02/22/18 12:06	2/20/18	
Benzo(g,h,i)perylene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Benzo(k)fluoranthene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Biphenyl	720 U	720	170	2	02/22/18 12:06	2/20/18	
2,2'-Oxybis(1-chloropropane)	720 U	720	180	2	02/22/18 12:06	2/20/18	
Bis(2-chloroethoxy)methane	720 U	720	170	2	02/22/18 12:06	2/20/18	
Bis(2-chloroethyl) Ether	720 U	720	140	2	02/22/18 12:06	2/20/18	
Bis(2-ethylhexyl) Phthalate	1100 U	1100	1100	2	02/22/18 12:06	2/20/18	
Butyl Benzyl Phthalate	720 U	720	140	2	02/22/18 12:06	2/20/18	
Caprolactam	720 U	720	170	2	02/22/18 12:06	2/20/18	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	720 U	720	180	2	02/22/18 12:06	2/20/18	
Chrysene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Di-n-butyl Phthalate	720 U	720	250	2	02/22/18 12:06	2/20/18	
Di-n-octyl Phthalate	720 U	720	220	2	02/22/18 12:06	2/20/18	
Dibenz(a,h)anthracene	720 U	720	140	2	02/22/18 12:06	2/20/18	
Dibenzofuran	720 U	720	150	2	02/22/18 12:06	2/20/18	
Diethyl Phthalate	720 U	720	400	2	02/22/18 12:06	2/20/18	
Dimethyl Phthalate	720 U	720	200	2	02/22/18 12:06	2/20/18	
Fluoranthene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Fluorene	720 U	720	190	2	02/22/18 12:06	2/20/18	
Hexachlorobenzene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Hexachlorobutadiene	720 U	720	130	2	02/22/18 12:06	2/20/18	
Hexachlorocyclopentadiene	720 U	720	120	2	02/22/18 12:06	2/20/18	
Hexachloroethane	720 U	720	130	2	02/22/18 12:06	2/20/18	
Indeno(1,2,3-cd)pyrene	720 U	720	160	2	02/22/18 12:06	2/20/18	
Isophorone	720 U	720	160	2	02/22/18 12:06	2/20/18	
N-Nitrosodi-n-propylamine	720 U	720	140	2	02/22/18 12:06	2/20/18	
N-Nitrosodiphenylamine	720 U	720	330	2	02/22/18 12:06	2/20/18	
Naphthalene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Nitrobenzene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Pentachlorophenol (PCP)	3700 U	3700	240	2	02/22/18 12:06	2/20/18	
Phenanthrene	720 U	720	160	2	02/22/18 12:06	2/20/18	
Phenol	720 U	720	160	2	02/22/18 12:06	2/20/18	
Pyrene	720 U	720	150	2	02/22/18 12:06	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	13 - 128	02/22/18 12:06	
2-Fluorobiphenyl	53	10 - 102	02/22/18 12:06	
2-Fluorophenol	38	16 - 129	02/22/18 12:06	
Nitrobenzene-d5	44	10 - 95	02/22/18 12:06	
Phenol-d6	46	10 - 145	02/22/18 12:06	
Terphenyl-d14	73	16 - 126	02/22/18 12:06	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	420 U	420	130	1	02/22/18 11:10	2/20/18	
2,3,4,6-Tetrachlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,4,5-Trichlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,4,6-Trichlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,4-Dichlorophenol	420 U	420	86	1	02/22/18 11:10	2/20/18	
2,4-Dimethylphenol	420 U	420	80	1	02/22/18 11:10	2/20/18	
2,4-Dinitrophenol	2200 U	2200	79	1	02/22/18 11:10	2/20/18	
2,4-Dinitrotoluene	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,6-Dinitrotoluene	420 U	420	150	1	02/22/18 11:10	2/20/18	
2-Chloronaphthalene	420 U	420	93	1	02/22/18 11:10	2/20/18	
2-Chlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2-Methylnaphthalene	1800	420	94	1	02/22/18 11:10	2/20/18	
2-Methylphenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2-Nitroaniline	2200 U	2200	120	1	02/22/18 11:10	2/20/18	
2-Nitrophenol	420 U	420	95	1	02/22/18 11:10	2/20/18	
3,3'-Dichlorobenzidine	420 U	420	130	1	02/22/18 11:10	2/20/18	
3- and 4-Methylphenol Coelution	420 U	420	110	1	02/22/18 11:10	2/20/18	
3-Nitroaniline	2200 U	2200	91	1	02/22/18 11:10	2/20/18	
4,6-Dinitro-2-methylphenol	2200 U	2200	91	1	02/22/18 11:10	2/20/18	
4-Bromophenyl Phenyl Ether	420 U	420	120	1	02/22/18 11:10	2/20/18	
4-Chloro-3-methylphenol	420 U	420	96	1	02/22/18 11:10	2/20/18	
4-Chloroaniline	420 U	420	50	1	02/22/18 11:10	2/20/18	
4-Chlorophenyl Phenyl Ether	420 U	420	100	1	02/22/18 11:10	2/20/18	
4-Nitroaniline	2200 U	2200	92	1	02/22/18 11:10	2/20/18	
4-Nitrophenol	2200 U	2200	250	1	02/22/18 11:10	2/20/18	
Acenaphthene	220 J	420	93	1	02/22/18 11:10	2/20/18	
Acenaphthylene	420 U	420	86	1	02/22/18 11:10	2/20/18	
Acetophenone	420 U	420	98	1	02/22/18 11:10	2/20/18	
Anthracene	420 U	420	81	1	02/22/18 11:10	2/20/18	
Atrazine	420 U	420	120	1	02/22/18 11:10	2/20/18	
Benz(a)anthracene	420 U	420	73	1	02/22/18 11:10	2/20/18	
Benzaldehyde	2200 U	2200	100	1	02/22/18 11:10	2/20/18	
Benzo(a)pyrene	420 U	420	84	1	02/22/18 11:10	2/20/18	
Benzo(b)fluoranthene	420 U	420	77	1	02/22/18 11:10	2/20/18	
Benzo(g,h,i)perylene	420 U	420	96	1	02/22/18 11:10	2/20/18	
Benzo(k)fluoranthene	420 U	420	94	1	02/22/18 11:10	2/20/18	
Biphenyl	220 J	420	98	1	02/22/18 11:10	2/20/18	
2,2'-Oxybis(1-chloropropane)	420 U	420	110	1	02/22/18 11:10	2/20/18	
Bis(2-chloroethoxy)methane	420 U	420	96	1	02/22/18 11:10	2/20/18	
Bis(2-chloroethyl) Ether	420 U	420	76	1	02/22/18 11:10	2/20/18	
Bis(2-ethylhexyl) Phthalate	630 U	630	590	1	02/22/18 11:10	2/20/18	
Butyl Benzyl Phthalate	420 U	420	80	1	02/22/18 11:10	2/20/18	
Caprolactam	420 U	420	93	1	02/22/18 11:10	2/20/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	420 U	420	110	1	02/22/18 11:10	2/20/18	
Chrysene	420 U	420	83	1	02/22/18 11:10	2/20/18	
Di-n-butyl Phthalate	420 U	420	140	1	02/22/18 11:10	2/20/18	
Di-n-octyl Phthalate	420 U	420	130	1	02/22/18 11:10	2/20/18	
Dibenz(a,h)anthracene	420 U	420	76	1	02/22/18 11:10	2/20/18	
Dibenzofuran	420 U	420	86	1	02/22/18 11:10	2/20/18	
Diethyl Phthalate	420 U	420	230	1	02/22/18 11:10	2/20/18	
Dimethyl Phthalate	420 U	420	120	1	02/22/18 11:10	2/20/18	
Fluoranthene	420 U	420	99	1	02/22/18 11:10	2/20/18	
Fluorene	<b>350 J</b>	420	110	1	02/22/18 11:10	2/20/18	
Hexachlorobenzene	420 U	420	98	1	02/22/18 11:10	2/20/18	
Hexachlorobutadiene	420 U	420	71	1	02/22/18 11:10	2/20/18	
Hexachlorocyclopentadiene	420 U	420	70	1	02/22/18 11:10	2/20/18	
Hexachloroethane	420 U	420	73	1	02/22/18 11:10	2/20/18	
Indeno(1,2,3-cd)pyrene	420 U	420	93	1	02/22/18 11:10	2/20/18	
Isophorone	420 U	420	91	1	02/22/18 11:10	2/20/18	
N-Nitrosodi-n-propylamine	420 U	420	76	1	02/22/18 11:10	2/20/18	
N-Nitrosodiphenylamine	420 U	420	190	1	02/22/18 11:10	2/20/18	
Naphthalene	<b>250 J</b>	420	86	1	02/22/18 11:10	2/20/18	
Nitrobenzene	420 U	420	86	1	02/22/18 11:10	2/20/18	
Pentachlorophenol (PCP)	2200 U	2200	140	1	02/22/18 11:10	2/20/18	
Phenanthrene	<b>1300</b>	420	87	1	02/22/18 11:10	2/20/18	
Phenol	420 U	420	92	1	02/22/18 11:10	2/20/18	
Pyrene	420 U	420	82	1	02/22/18 11:10	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	13 - 128	02/22/18 11:10	
2-Fluorobiphenyl	35	10 - 102	02/22/18 11:10	
2-Fluorophenol	41	16 - 129	02/22/18 11:10	
Nitrobenzene-d5	45	10 - 95	02/22/18 11:10	
Phenol-d6	44	10 - 145	02/22/18 11:10	
Terphenyl-d14	60	16 - 126	02/22/18 11:10	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 11:29  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	02/22/18 12:34	2/20/18	
2,3,4,6-Tetrachlorophenol	400 U	400	98	1	02/22/18 12:34	2/20/18	
2,4,5-Trichlorophenol	400 U	400	99	1	02/22/18 12:34	2/20/18	
2,4,6-Trichlorophenol	400 U	400	110	1	02/22/18 12:34	2/20/18	
2,4-Dichlorophenol	400 U	400	82	1	02/22/18 12:34	2/20/18	
2,4-Dimethylphenol	400 U	400	76	1	02/22/18 12:34	2/20/18	
2,4-Dinitrophenol	2000 U	2000	75	1	02/22/18 12:34	2/20/18	
2,4-Dinitrotoluene	400 U	400	110	1	02/22/18 12:34	2/20/18	
2,6-Dinitrotoluene	400 U	400	140	1	02/22/18 12:34	2/20/18	
2-Chloronaphthalene	400 U	400	88	1	02/22/18 12:34	2/20/18	
2-Chlorophenol	400 U	400	97	1	02/22/18 12:34	2/20/18	
2-Methylnaphthalene	400 U	400	89	1	02/22/18 12:34	2/20/18	
2-Methylphenol	400 U	400	97	1	02/22/18 12:34	2/20/18	
2-Nitroaniline	2000 U	2000	120	1	02/22/18 12:34	2/20/18	
2-Nitrophenol	400 U	400	91	1	02/22/18 12:34	2/20/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	02/22/18 12:34	2/20/18	
3- and 4-Methylphenol Coelution	400 U	400	100	1	02/22/18 12:34	2/20/18	
3-Nitroaniline	2000 U	2000	86	1	02/22/18 12:34	2/20/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	86	1	02/22/18 12:34	2/20/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	02/22/18 12:34	2/20/18	
4-Chloro-3-methylphenol	400 U	400	91	1	02/22/18 12:34	2/20/18	
4-Chloroaniline	400 U	400	48	1	02/22/18 12:34	2/20/18	
4-Chlorophenyl Phenyl Ether	400 U	400	95	1	02/22/18 12:34	2/20/18	
4-Nitroaniline	2000 U	2000	88	1	02/22/18 12:34	2/20/18	
4-Nitrophenol	2000 U	2000	240	1	02/22/18 12:34	2/20/18	
Acenaphthene	400 U	400	88	1	02/22/18 12:34	2/20/18	
Acenaphthylene	400 U	400	81	1	02/22/18 12:34	2/20/18	
Acetophenone	400 U	400	93	1	02/22/18 12:34	2/20/18	
Anthracene	400 U	400	77	1	02/22/18 12:34	2/20/18	
Atrazine	400 U	400	110	1	02/22/18 12:34	2/20/18	
Benz(a)anthracene	400 U	400	70	1	02/22/18 12:34	2/20/18	
Benzaldehyde	2000 U	2000	95	1	02/22/18 12:34	2/20/18	
Benzo(a)pyrene	400 U	400	80	1	02/22/18 12:34	2/20/18	
Benzo(b)fluoranthene	400 U	400	73	1	02/22/18 12:34	2/20/18	
Benzo(g,h,i)perylene	400 U	400	91	1	02/22/18 12:34	2/20/18	
Benzo(k)fluoranthene	400 U	400	89	1	02/22/18 12:34	2/20/18	
Biphenyl	400 U	400	93	1	02/22/18 12:34	2/20/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	98	1	02/22/18 12:34	2/20/18	
Bis(2-chloroethoxy)methane	400 U	400	91	1	02/22/18 12:34	2/20/18	
Bis(2-chloroethyl) Ether	400 U	400	73	1	02/22/18 12:34	2/20/18	
Bis(2-ethylhexyl) Phthalate	600 U	600	560	1	02/22/18 12:34	2/20/18	
Butyl Benzyl Phthalate	400 U	400	76	1	02/22/18 12:34	2/20/18	
Caprolactam	400 U	400	89	1	02/22/18 12:34	2/20/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 11:29  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	400 U	400	99	1	02/22/18 12:34	2/20/18	
Chrysene	400 U	400	78	1	02/22/18 12:34	2/20/18	
Di-n-butyl Phthalate	400 U	400	140	1	02/22/18 12:34	2/20/18	
Di-n-octyl Phthalate	400 U	400	120	1	02/22/18 12:34	2/20/18	
Dibenz(a,h)anthracene	400 U	400	72	1	02/22/18 12:34	2/20/18	
Dibenzofuran	400 U	400	82	1	02/22/18 12:34	2/20/18	
Diethyl Phthalate	400 U	400	220	1	02/22/18 12:34	2/20/18	
Dimethyl Phthalate	400 U	400	110	1	02/22/18 12:34	2/20/18	
Fluoranthene	400 U	400	94	1	02/22/18 12:34	2/20/18	
Fluorene	400 U	400	100	1	02/22/18 12:34	2/20/18	
Hexachlorobenzene	400 U	400	93	1	02/22/18 12:34	2/20/18	
Hexachlorobutadiene	400 U	400	68	1	02/22/18 12:34	2/20/18	
Hexachlorocyclopentadiene	400 U	400	66	1	02/22/18 12:34	2/20/18	
Hexachloroethane	400 U	400	70	1	02/22/18 12:34	2/20/18	
Indeno(1,2,3-cd)pyrene	400 U	400	88	1	02/22/18 12:34	2/20/18	
Isophorone	400 U	400	86	1	02/22/18 12:34	2/20/18	
N-Nitrosodi-n-propylamine	400 U	400	72	1	02/22/18 12:34	2/20/18	
N-Nitrosodiphenylamine	400 U	400	180	1	02/22/18 12:34	2/20/18	
Naphthalene	400 U	400	82	1	02/22/18 12:34	2/20/18	
Nitrobenzene	400 U	400	82	1	02/22/18 12:34	2/20/18	
Pentachlorophenol (PCP)	2000 U	2000	140	1	02/22/18 12:34	2/20/18	
Phenanthrene	400 U	400	83	1	02/22/18 12:34	2/20/18	
Phenol	400 U	400	87	1	02/22/18 12:34	2/20/18	
Pyrene	400 U	400	78	1	02/22/18 12:34	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	13 - 128	02/22/18 12:34	
2-Fluorobiphenyl	37	10 - 102	02/22/18 12:34	
2-Fluorophenol	37	16 - 129	02/22/18 12:34	
Nitrobenzene-d5	44	10 - 95	02/22/18 12:34	
Phenol-d6	38	10 - 145	02/22/18 12:34	
Terphenyl-d14	58	16 - 126	02/22/18 12:34	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 16:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	370 U	370	110	1	02/22/18 13:01	2/20/18	
2,3,4,6-Tetrachlorophenol	370 U	370	91	1	02/22/18 13:01	2/20/18	
2,4,5-Trichlorophenol	370 U	370	92	1	02/22/18 13:01	2/20/18	
2,4,6-Trichlorophenol	370 U	370	96	1	02/22/18 13:01	2/20/18	
2,4-Dichlorophenol	370 U	370	76	1	02/22/18 13:01	2/20/18	
2,4-Dimethylphenol	370 U	370	71	1	02/22/18 13:01	2/20/18	
2,4-Dinitrophenol	1900 U	1900	69	1	02/22/18 13:01	2/20/18	
2,4-Dinitrotoluene	370 U	370	96	1	02/22/18 13:01	2/20/18	
2,6-Dinitrotoluene	370 U	370	130	1	02/22/18 13:01	2/20/18	
2-Chloronaphthalene	370 U	370	82	1	02/22/18 13:01	2/20/18	
2-Chlorophenol	370 U	370	90	1	02/22/18 13:01	2/20/18	
2-Methylnaphthalene	370 U	370	83	1	02/22/18 13:01	2/20/18	
2-Methylphenol	370 U	370	90	1	02/22/18 13:01	2/20/18	
2-Nitroaniline	1900 U	1900	110	1	02/22/18 13:01	2/20/18	
2-Nitrophenol	370 U	370	84	1	02/22/18 13:01	2/20/18	
3,3'-Dichlorobenzidine	370 U	370	120	1	02/22/18 13:01	2/20/18	
3- and 4-Methylphenol Coelution	370 U	370	93	1	02/22/18 13:01	2/20/18	
3-Nitroaniline	1900 U	1900	80	1	02/22/18 13:01	2/20/18	
4,6-Dinitro-2-methylphenol	1900 U	1900	80	1	02/22/18 13:01	2/20/18	
4-Bromophenyl Phenyl Ether	370 U	370	110	1	02/22/18 13:01	2/20/18	
4-Chloro-3-methylphenol	370 U	370	84	1	02/22/18 13:01	2/20/18	
4-Chloroaniline	370 U	370	45	1	02/22/18 13:01	2/20/18	
4-Chlorophenyl Phenyl Ether	370 U	370	88	1	02/22/18 13:01	2/20/18	
4-Nitroaniline	1900 U	1900	82	1	02/22/18 13:01	2/20/18	
4-Nitrophenol	1900 U	1900	220	1	02/22/18 13:01	2/20/18	
Acenaphthene	370 U	370	82	1	02/22/18 13:01	2/20/18	
Acenaphthylene	370 U	370	76	1	02/22/18 13:01	2/20/18	
Acetophenone	370 U	370	86	1	02/22/18 13:01	2/20/18	
Anthracene	370 U	370	72	1	02/22/18 13:01	2/20/18	
Atrazine	370 U	370	100	1	02/22/18 13:01	2/20/18	
Benz(a)anthracene	<b>93 J</b>	370	65	1	02/22/18 13:01	2/20/18	
Benzaldehyde	1900 U	1900	88	1	02/22/18 13:01	2/20/18	
Benzo(a)pyrene	<b>100 J</b>	370	75	1	02/22/18 13:01	2/20/18	
Benzo(b)fluoranthene	<b>170 J</b>	370	68	1	02/22/18 13:01	2/20/18	
Benzo(g,h,i)perylene	<b>140 J</b>	370	84	1	02/22/18 13:01	2/20/18	
Benzo(k)fluoranthene	370 U	370	83	1	02/22/18 13:01	2/20/18	
Biphenyl	370 U	370	86	1	02/22/18 13:01	2/20/18	
2,2'-Oxybis(1-chloropropane)	370 U	370	91	1	02/22/18 13:01	2/20/18	
Bis(2-chloroethoxy)methane	370 U	370	85	1	02/22/18 13:01	2/20/18	
Bis(2-chloroethyl) Ether	370 U	370	67	1	02/22/18 13:01	2/20/18	
Bis(2-ethylhexyl) Phthalate	560 U	560	520	1	02/22/18 13:01	2/20/18	
Butyl Benzyl Phthalate	370 U	370	71	1	02/22/18 13:01	2/20/18	
Caprolactam	370 U	370	82	1	02/22/18 13:01	2/20/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 16:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	370 U	370	92	1	02/22/18 13:01	2/20/18	
Chrysene	<b>110 J</b>	370	73	1	02/22/18 13:01	2/20/18	
Di-n-butyl Phthalate	370 U	370	130	1	02/22/18 13:01	2/20/18	
Di-n-octyl Phthalate	370 U	370	120	1	02/22/18 13:01	2/20/18	
Dibenz(a,h)anthracene	370 U	370	67	1	02/22/18 13:01	2/20/18	
Dibenzofuran	370 U	370	76	1	02/22/18 13:01	2/20/18	
Diethyl Phthalate	370 U	370	210	1	02/22/18 13:01	2/20/18	
Dimethyl Phthalate	370 U	370	110	1	02/22/18 13:01	2/20/18	
Fluoranthene	<b>110 J</b>	370	87	1	02/22/18 13:01	2/20/18	
Fluorene	370 U	370	93	1	02/22/18 13:01	2/20/18	
Hexachlorobenzene	370 U	370	86	1	02/22/18 13:01	2/20/18	
Hexachlorobutadiene	370 U	370	63	1	02/22/18 13:01	2/20/18	
Hexachlorocyclopentadiene	370 U	370	61	1	02/22/18 13:01	2/20/18	
Hexachloroethane	370 U	370	65	1	02/22/18 13:01	2/20/18	
Indeno(1,2,3-cd)pyrene	<b>110 J</b>	370	82	1	02/22/18 13:01	2/20/18	
Isophorone	370 U	370	80	1	02/22/18 13:01	2/20/18	
N-Nitrosodi-n-propylamine	370 U	370	67	1	02/22/18 13:01	2/20/18	
N-Nitrosodiphenylamine	370 U	370	170	1	02/22/18 13:01	2/20/18	
Naphthalene	370 U	370	76	1	02/22/18 13:01	2/20/18	
Nitrobenzene	370 U	370	76	1	02/22/18 13:01	2/20/18	
Pentachlorophenol (PCP)	1900 U	1900	130	1	02/22/18 13:01	2/20/18	
Phenanthrene	370 U	370	77	1	02/22/18 13:01	2/20/18	
Phenol	370 U	370	81	1	02/22/18 13:01	2/20/18	
Pyrene	<b>98 J</b>	370	72	1	02/22/18 13:01	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	13 - 128	02/22/18 13:01	
2-Fluorobiphenyl	38	10 - 102	02/22/18 13:01	
2-Fluorophenol	37	16 - 129	02/22/18 13:01	
Nitrobenzene-d5	45	10 - 95	02/22/18 13:01	
Phenol-d6	38	10 - 145	02/22/18 13:01	
Terphenyl-d14	85	16 - 126	02/22/18 13:01	



## Semivolatile Organic Compounds by GC

**ALS Environmental—Rochester Laboratory**  
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**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	42 U	42	22	1	02/21/18 15:24	2/20/18	
Aroclor 1221	85 U	85	43	1	02/21/18 15:24	2/20/18	
Aroclor 1232	42 U	42	25	1	02/21/18 15:24	2/20/18	
Aroclor 1242	42 U	42	22	1	02/21/18 15:24	2/20/18	
Aroclor 1248	42 U	42	33	1	02/21/18 15:24	2/20/18	
Aroclor 1254	42 U	42	24	1	02/21/18 15:24	2/20/18	
Aroclor 1260	42 U	42	22	1	02/21/18 15:24	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	22 - 128	02/21/18 15:24	
Tetrachloro-m-xylene	32	14 - 119	02/21/18 15:24	



# Metals

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METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TB-01 (3.0)  
Project No.: R1801334      Date Collected: 2/12/2018  
Project Name:      Date Received: 2/14/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TB-01 (3.0)      Lab Code: R1801334-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.347	1.0	6.5		
Barium	6010C	2.4	0.087	1.0	73.4		
Cadmium	6010C	0.598	0.020	1.0	0.909		
Mercury	7471B	0.038	0.011	1.0	0.351		
Chromium	6010C	1.2	0.109	1.0	11.7		
Lead	6010C	6.0	0.232	1.0	117		
Selenium	6010C	1.2	0.451	1.0	1.7		
Silver	6010C	1.2	0.079	1.0	0.454	J	

% Solids: 82.8

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TB-01 (3.0)  
Project No.: R1801334      Date Collected: 2/12/2018  
Project Name:      Date Received: 2/14/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TB-02 (8.0)      Lab Code: R1801334-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.5	0.432	1.0	9.1		
Barium	6010C	3.0	0.109	1.0	115		
Cadmium	6010C	0.745	0.025	1.0	0.358	J	
Mercury	7471B	0.261	0.074	5.0	4.3		
Chromium	6010C	1.5	0.136	1.0	11.0		
Lead	6010C	7.5	0.289	1.0	379		
Selenium	6010C	1.5	0.562	1.0	3.2		
Silver	6010C	1.5	0.098	1.0	0.894	J	

% Solids: 63.9

Comments:











## General Chemistry

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:08  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.8	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:48  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	63.9	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	90.6	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	66.9	Percent	-	-	1	02/20/18 14:30	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005

**Service Request:** R1801334  
**Date Collected:** 02/12/18 14:40  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	79.2	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006

**Service Request:** R1801334  
**Date Collected:** 02/12/18 15:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	86.0	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	78.0	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008

**Service Request:** R1801334  
**Date Collected:** 02/13/18 09:40  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	83.4	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009

**Service Request:** R1801334  
**Date Collected:** 02/13/18 11:29  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.9	Percent	-	-	1	02/20/18 14:30	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010

**Service Request:** R1801334  
**Date Collected:** 02/13/18 12:40  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	88.2	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011

**Service Request:** R1801334  
**Date Collected:** 02/13/18 13:30  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	95.5	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:00  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	81.1	Percent	-	-	1	02/20/18 14:30	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	91.0	Percent	-	-	1	02/20/18 14:30	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Service Request:** R1801334  
**Date Collected:** 02/13/18 16:25  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	88.7	Percent	-	-	1	02/20/18 14:30	





## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Extraction Method:** EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		51 - 136	63 - 138	66 - 138
TB-04 (2.5)	R1801334-003	81	99	102
TB-07 (5.5)	R1801334-004	85	67	100
TB-07 (5.5) RE	R1801334-004	98	50 *	103
TB-10 (15.0)	R1801334-005	75	101	101
TB-13 (8.0)	R1801334-006	96	96	102
TB-14 (7.0)	R1801334-007	105	93	102
TB-15 (7.0-7.5)	R1801334-008	82	98	100
TB-19 (10.0)	R1801334-010	96	98	103
TB-20 (3.0)	R1801334-011	82	98	101
TB-21 (5.0)	R1801334-012	90	98	103
TB-22 (12.0)	R1801334-013	95	97	101
Lab Control Sample	RQ1801464-03	97	101	102
Method Blank	RQ1801464-04	98	98	102
Lab Control Sample	RQ1801521-03	99	100	102
Method Blank	RQ1801521-04	102	91	101
Lab Control Sample	RQ1801721-03	98	99	101
Method Blank	RQ1801721-04	98	97	101
TB-21 (5.0) MS	RQ1801721-05	91	98	101

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18  
**Date Received:** 02/14/18  
**Date Analyzed:** 02/17/18  
**Date Extracted:** NA

**Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Units:** ug/Kg  
**Basis:** Dry

**Matrix Spike**  
RQ1801721-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	4.9 U	51.2	48.7	105	51-132
1,1,2,2-Tetrachloroethane	4.9 U	43.5	48.7	89	53-134
1,1,2-Trichloroethane	4.9 U	43.3	48.7	89	62-126
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9 U	55.0	48.7	113	45-136
1,1-Dichloroethane (1,1-DCA)	4.9 U	51.7	48.7	106	53-131
1,1-Dichloroethene (1,1-DCE)	4.9 U	51.0	48.7	105	61-139
1,2,3-Trichlorobenzene	4.9 U	17.8	48.7	36	10-179
1,2,4-Trichlorobenzene	4.9 U	23.3	48.7	48	10-179
1,2,4-Trimethylbenzene	0.52 J	50.7	48.7	103	33-150
1,2-Dibromo-3-chloropropane (DBCP)	4.9 U	31.5	48.7	65	27-163
1,2-Dibromoethane	4.9 U	40.2	48.7	83	52-137
1,2-Dichlorobenzene	4.9 U	38.8	48.7	80	22-156
1,2-Dichloroethane	4.9 U	44.8	48.7	92	59-125
1,2-Dichloropropane	4.9 U	47.3	48.7	97	67-126
1,3,5-Trimethylbenzene	4.9 U	52.9	48.7	109	36-149
1,3-Dichlorobenzene	4.9 U	41.2	48.7	85	29-146
1,4-Dichlorobenzene	4.9 U	38.9	48.7	80	10-172
1,4-Dioxane	97 U	1230	974	126	50-148
2-Butanone (MEK)	4.9 U	34.7	48.7	71	43-134
2-Hexanone	4.9 U	38.5	48.7	79	37-146
4-Isopropyltoluene	4.9 U	51.7	48.7	106	26-156
4-Methyl-2-pentanone	4.9 U	40.9	48.7	84	47-145
Acetone	9.3	193	48.7	378 *	11-183
Benzene	0.58 J	49.2	48.7	100	63-126
Bromochloromethane	4.9 U	45.2	48.7	93	60-119
Bromodichloromethane	4.9 U	44.3	48.7	91	47-141
Bromoform	4.9 U	35.0	48.7	72	26-157
Bromomethane	4.9 U	31.8	48.7	65	10-137
Carbon Disulfide	4.9 U	44.1	48.7	91	35-135
Carbon Tetrachloride	4.9 U	46.8	48.7	96	46-137
Chlorobenzene	4.9 U	43.8	48.7	90	51-132
Chloroethane	4.9 U	54.0	48.7	111	45-132
Chloroform	4.9 U	50.4	48.7	104	61-124
Chloromethane	4.9 U	42.1	48.7	86	50-136
Cyclohexane	4.9 U	53.6	48.7	110	40-142

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18  
**Date Received:** 02/14/18  
**Date Analyzed:** 02/17/18  
**Date Extracted:** NA

**Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Units:** ug/Kg  
**Basis:** Dry

**Matrix Spike**  
RQ1801721-05

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Dibromochloromethane	4.9 U	39.9	48.7	82	40-146
Dichlorodifluoromethane (CFC 12)	4.9 U	45.6	48.7	94	44-138
Dichloromethane	4.9 U	47.9	48.7	98	64-120
Ethylbenzene	4.9 U	47.3	48.7	97	44-131
Isopropylbenzene (Cumene)	4.9 U	47.4	48.7	97	36-148
Methyl Acetate	4.9 U	66.6	48.7	137	34-173
Methyl tert-Butyl Ether	4.9 U	45.8	48.7	94	62-130
Methylcyclohexane	1.4 J	50.9	48.7	102	33-148
Styrene	4.9 U	41.4	48.7	85	39-149
Tetrachloroethene (PCE)	0.95 J	48.8	48.7	98	45-141
Toluene	1.5 J	48.8	48.7	97	50-140
Trichloroethene (TCE)	4.9 U	46.8	48.7	96	54-136
Trichlorofluoromethane (CFC 11)	4.9 U	56.0	48.7	115	47-129
Vinyl Chloride	4.9 U	53.0	48.7	109	53-128
cis-1,2-Dichloroethene	4.9 U	46.8	48.7	96	56-126
cis-1,3-Dichloropropene	4.9 U	41.7	48.7	86	31-150
m,p-Xylenes	1.1 J	93.8	97.4	95	45-141
n-Butylbenzene	4.9 U	48.8	48.7	100	10-168
n-Propylbenzene	4.9 U	52.8	48.7	108	25-164
o-Xylene	4.9 U	46.1	48.7	95	46-139
sec-Butylbenzene	4.9 U	52.2	48.7	107	28-153
tert-Butylbenzene	4.9 U	53.1	48.7	109	35-149
trans-1,2-Dichloroethene	4.9 U	48.0	48.7	99	52-128
trans-1,3-Dichloropropene	4.9 U	36.9	48.7	76	23-160

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/16/18 12:15  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1801464-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\021618\C4992.D\  
**Analysis Lot:** 580628

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1801464-03	I:\ACQUADATA\MSVOA14\Data\021618\C4990.D\	02/16/18 11:29
TB-04 (2.5)	R1801334-003	I:\ACQUADATA\MSVOA14\Data\021618\C4993.D\	02/16/18 12:38
TB-07 (5.5)	R1801334-004	I:\ACQUADATA\MSVOA14\Data\021618\C4994.D\	02/16/18 13:01
TB-10 (15.0)	R1801334-005	I:\ACQUADATA\MSVOA14\Data\021618\C4995.D\	02/16/18 13:24
TB-13 (8.0)	R1801334-006	I:\ACQUADATA\MSVOA14\Data\021618\C4996.D\	02/16/18 13:47
TB-15 (7.0-7.5)	R1801334-008	I:\ACQUADATA\MSVOA14\Data\021618\C4997.D\	02/16/18 14:10
TB-19 (10.0)	R1801334-010	I:\ACQUADATA\MSVOA14\Data\021618\C4998.D\	02/16/18 14:34
TB-20 (3.0)	R1801334-011	I:\ACQUADATA\MSVOA14\Data\021618\C4999.D\	02/16/18 14:57
TB-21 (5.0)	R1801334-012	I:\ACQUADATA\MSVOA14\Data\021618\C5000.D\	02/16/18 15:20
TB-22 (12.0)	R1801334-013	I:\ACQUADATA\MSVOA14\Data\021618\C5001.D\	02/16/18 15:43
TB-07 (5.5)	R1801334-004	I:\ACQUADATA\MSVOA14\Data\021618\C5004.D\	02/16/18 16:52

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/17/18 15:54  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1801721-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:**R-MS-14  
**File ID:**I:\ACQUADATA\MSVOA14\Data\021718\C5028.D\  
**Analysis Lot:**580738

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1801721-03	I:\ACQUADATA\MSVOA14\Data\021718\C5026.D\	02/17/18 15:06
TB-21 (5.0)	RQ1801721-05	I:\ACQUADATA\MSVOA14\Data\021718\C5031.D\	02/17/18 17:03

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/20/18 13:00  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1801521-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-12  
**File ID:** I:\ACQUADATA\msvoa12\Data\022018\P15889.D\  
**Analysis Lot:** 580966

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1801521-03	I:\ACQUADATA\msvoa12\Data\022018\P15885.D\	02/20/18 11:22
TB-14 (7.0)	R1801334-007	I:\ACQUADATA\msvoa12\Data\022018\P15907.D\	02/20/18 19:34

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801464-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.73	1	02/16/18 12:15	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.81	1	02/16/18 12:15	
1,1,2-Trichloroethane	5.0 U	5.0	0.73	1	02/16/18 12:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1.3	1	02/16/18 12:15	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.3	1	02/16/18 12:15	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1.3	1	02/16/18 12:15	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.62	1	02/16/18 12:15	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.59	1	02/16/18 12:15	
1,2,4-Trimethylbenzene	5.0 U	5.0	0.54	1	02/16/18 12:15	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.9	1	02/16/18 12:15	
1,2-Dibromoethane	5.0 U	5.0	1.3	1	02/16/18 12:15	
1,2-Dichlorobenzene	5.0 U	5.0	0.61	1	02/16/18 12:15	
1,2-Dichloroethane	5.0 U	5.0	0.61	1	02/16/18 12:15	
1,2-Dichloropropane	5.0 U	5.0	0.97	1	02/16/18 12:15	
1,3,5-Trimethylbenzene	5.0 U	5.0	0.79	1	02/16/18 12:15	
1,3-Dichlorobenzene	5.0 U	5.0	0.63	1	02/16/18 12:15	
1,4-Dichlorobenzene	5.0 U	5.0	0.56	1	02/16/18 12:15	
1,4-Dioxane	100 U	100	20	1	02/16/18 12:15	
2-Butanone (MEK)	5.0 U	5.0	2.3	1	02/16/18 12:15	
2-Hexanone	5.0 U	5.0	1.3	1	02/16/18 12:15	
4-Isopropyltoluene	5.0 U	5.0	0.87	1	02/16/18 12:15	
4-Methyl-2-pentanone	5.0 U	5.0	0.98	1	02/16/18 12:15	
Acetone	5.0 U	5.0	2.9	1	02/16/18 12:15	
Benzene	5.0 U	5.0	0.29	1	02/16/18 12:15	
Bromochloromethane	5.0 U	5.0	1.4	1	02/16/18 12:15	
Bromodichloromethane	5.0 U	5.0	0.61	1	02/16/18 12:15	
Bromoform	5.0 U	5.0	0.93	1	02/16/18 12:15	
Bromomethane	5.0 U	5.0	1.4	1	02/16/18 12:15	
Carbon Disulfide	5.0 U	5.0	1.3	1	02/16/18 12:15	
Carbon Tetrachloride	5.0 U	5.0	0.92	1	02/16/18 12:15	
Chlorobenzene	5.0 U	5.0	0.29	1	02/16/18 12:15	
Chloroethane	5.0 U	5.0	2.9	1	02/16/18 12:15	
Chloroform	5.0 U	5.0	1.3	1	02/16/18 12:15	
Chloromethane	5.0 U	5.0	0.40	1	02/16/18 12:15	
Cyclohexane	5.0 U	5.0	1.4	1	02/16/18 12:15	
Dibromochloromethane	5.0 U	5.0	0.73	1	02/16/18 12:15	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1.9	1	02/16/18 12:15	
Dichloromethane	5.0 U	5.0	0.57	1	02/16/18 12:15	
Ethylbenzene	5.0 U	5.0	0.23	1	02/16/18 12:15	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.67	1	02/16/18 12:15	
Methyl Acetate	5.0 U	5.0	1.8	1	02/16/18 12:15	
Methyl tert-Butyl Ether	5.0 U	5.0	0.94	1	02/16/18 12:15	
Methylcyclohexane	5.0 U	5.0	1.2	1	02/16/18 12:15	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801464-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.0 U	5.0	0.30	1	02/16/18 12:15	
Tetrachloroethene (PCE)	5.0 U	5.0	0.88	1	02/16/18 12:15	
Toluene	5.0 U	5.0	1.0	1	02/16/18 12:15	
Trichloroethene (TCE)	5.0 U	5.0	1.1	1	02/16/18 12:15	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.66	1	02/16/18 12:15	
Vinyl Chloride	5.0 U	5.0	1.9	1	02/16/18 12:15	
cis-1,2-Dichloroethene	5.0 U	5.0	0.95	1	02/16/18 12:15	
cis-1,3-Dichloropropene	5.0 U	5.0	0.90	1	02/16/18 12:15	
m,p-Xylenes	10 U	10	1.1	1	02/16/18 12:15	
n-Butylbenzene	5.0 U	5.0	0.98	1	02/16/18 12:15	
n-Propylbenzene	5.0 U	5.0	0.78	1	02/16/18 12:15	
o-Xylene	5.0 U	5.0	0.48	1	02/16/18 12:15	
sec-Butylbenzene	5.0 U	5.0	0.72	1	02/16/18 12:15	
tert-Butylbenzene	5.0 U	5.0	0.58	1	02/16/18 12:15	
trans-1,2-Dichloroethene	5.0 U	5.0	0.86	1	02/16/18 12:15	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	02/16/18 12:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	02/16/18 12:15	
Dibromofluoromethane	98	63 - 138	02/16/18 12:15	
Toluene-d8	102	66 - 138	02/16/18 12:15	



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801521-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	37	50	02/20/18 13:00	
1,1,2,2-Tetrachloroethane	250 U	250	41	50	02/20/18 13:00	
1,1,2-Trichloroethane	250 U	250	37	50	02/20/18 13:00	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	62	50	02/20/18 13:00	
1,1-Dichloroethane (1,1-DCA)	250 U	250	63	50	02/20/18 13:00	
1,1-Dichloroethene (1,1-DCE)	250 U	250	64	50	02/20/18 13:00	
1,2,3-Trichlorobenzene	250 U	250	31	50	02/20/18 13:00	
1,2,4-Trichlorobenzene	250 U	250	30	50	02/20/18 13:00	
1,2,4-Trimethylbenzene	250 U	250	27	50	02/20/18 13:00	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	94	50	02/20/18 13:00	
1,2-Dibromoethane	250 U	250	61	50	02/20/18 13:00	
1,2-Dichlorobenzene	250 U	250	31	50	02/20/18 13:00	
1,2-Dichloroethane	250 U	250	31	50	02/20/18 13:00	
1,2-Dichloropropane	250 U	250	49	50	02/20/18 13:00	
1,3,5-Trimethylbenzene	250 U	250	40	50	02/20/18 13:00	
1,3-Dichlorobenzene	250 U	250	32	50	02/20/18 13:00	
1,4-Dichlorobenzene	250 U	250	28	50	02/20/18 13:00	
1,4-Dioxane	5000 U	5000	960	50	02/20/18 13:00	
2-Butanone (MEK)	250 U	250	120	50	02/20/18 13:00	
2-Hexanone	250 U	250	61	50	02/20/18 13:00	
4-Isopropyltoluene	250 U	250	44	50	02/20/18 13:00	
4-Methyl-2-pentanone	250 U	250	49	50	02/20/18 13:00	
Acetone	250 U	250	150	50	02/20/18 13:00	
Benzene	250 U	250	15	50	02/20/18 13:00	
Bromochloromethane	250 U	250	68	50	02/20/18 13:00	
Bromodichloromethane	250 U	250	31	50	02/20/18 13:00	
Bromoform	250 U	250	47	50	02/20/18 13:00	
Bromomethane	250 U	250	69	50	02/20/18 13:00	
Carbon Disulfide	250 U	250	62	50	02/20/18 13:00	
Carbon Tetrachloride	250 U	250	46	50	02/20/18 13:00	
Chlorobenzene	250 U	250	15	50	02/20/18 13:00	
Chloroethane	250 U	250	150	50	02/20/18 13:00	
Chloroform	250 U	250	63	50	02/20/18 13:00	
Chloromethane	250 U	250	20	50	02/20/18 13:00	
Cyclohexane	250 U	250	69	50	02/20/18 13:00	
Dibromochloromethane	250 U	250	37	50	02/20/18 13:00	
Dichlorodifluoromethane (CFC 12)	250 U	250	95	50	02/20/18 13:00	
Dichloromethane	250 U	250	29	50	02/20/18 13:00	
Ethylbenzene	250 U	250	12	50	02/20/18 13:00	
Isopropylbenzene (Cumene)	250 U	250	34	50	02/20/18 13:00	
Methyl Acetate	250 U	250	88	50	02/20/18 13:00	
Methyl tert-Butyl Ether	250 U	250	47	50	02/20/18 13:00	
Methylcyclohexane	250 U	250	60	50	02/20/18 13:00	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801521-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	250 U	250	15	50	02/20/18 13:00	
Tetrachloroethene (PCE)	250 U	250	44	50	02/20/18 13:00	
Toluene	250 U	250	50	50	02/20/18 13:00	
Trichloroethene (TCE)	250 U	250	51	50	02/20/18 13:00	
Trichlorofluoromethane (CFC 11)	250 U	250	33	50	02/20/18 13:00	
Vinyl Chloride	250 U	250	92	50	02/20/18 13:00	
cis-1,2-Dichloroethene	250 U	250	48	50	02/20/18 13:00	
cis-1,3-Dichloropropene	250 U	250	45	50	02/20/18 13:00	
m,p-Xylenes	500 U	500	55	50	02/20/18 13:00	
n-Butylbenzene	250 U	250	49	50	02/20/18 13:00	
n-Propylbenzene	250 U	250	39	50	02/20/18 13:00	
o-Xylene	250 U	250	24	50	02/20/18 13:00	
sec-Butylbenzene	250 U	250	36	50	02/20/18 13:00	
tert-Butylbenzene	250 U	250	29	50	02/20/18 13:00	
trans-1,2-Dichloroethene	250 U	250	43	50	02/20/18 13:00	
trans-1,3-Dichloropropene	250 U	250	10	50	02/20/18 13:00	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	51 - 136	02/20/18 13:00	
Dibromofluoromethane	91	63 - 138	02/20/18 13:00	
Toluene-d8	101	66 - 138	02/20/18 13:00	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801721-04

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.73	1	02/17/18 15:54	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.81	1	02/17/18 15:54	
1,1,2-Trichloroethane	5.0 U	5.0	0.73	1	02/17/18 15:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1.3	1	02/17/18 15:54	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.3	1	02/17/18 15:54	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1.3	1	02/17/18 15:54	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.62	1	02/17/18 15:54	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.59	1	02/17/18 15:54	
1,2,4-Trimethylbenzene	5.0 U	5.0	0.54	1	02/17/18 15:54	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.9	1	02/17/18 15:54	
1,2-Dibromoethane	5.0 U	5.0	1.3	1	02/17/18 15:54	
1,2-Dichlorobenzene	5.0 U	5.0	0.61	1	02/17/18 15:54	
1,2-Dichloroethane	5.0 U	5.0	0.61	1	02/17/18 15:54	
1,2-Dichloropropane	5.0 U	5.0	0.97	1	02/17/18 15:54	
1,3,5-Trimethylbenzene	5.0 U	5.0	0.79	1	02/17/18 15:54	
1,3-Dichlorobenzene	5.0 U	5.0	0.63	1	02/17/18 15:54	
1,4-Dichlorobenzene	5.0 U	5.0	0.56	1	02/17/18 15:54	
1,4-Dioxane	100 U	100	20	1	02/17/18 15:54	
2-Butanone (MEK)	5.0 U	5.0	2.3	1	02/17/18 15:54	
2-Hexanone	5.0 U	5.0	1.3	1	02/17/18 15:54	
4-Isopropyltoluene	5.0 U	5.0	0.87	1	02/17/18 15:54	
4-Methyl-2-pentanone	5.0 U	5.0	0.98	1	02/17/18 15:54	
Acetone	5.0 U	5.0	2.9	1	02/17/18 15:54	
Benzene	5.0 U	5.0	0.29	1	02/17/18 15:54	
Bromochloromethane	5.0 U	5.0	1.4	1	02/17/18 15:54	
Bromodichloromethane	5.0 U	5.0	0.61	1	02/17/18 15:54	
Bromoform	5.0 U	5.0	0.93	1	02/17/18 15:54	
Bromomethane	5.0 U	5.0	1.4	1	02/17/18 15:54	
Carbon Disulfide	5.0 U	5.0	1.3	1	02/17/18 15:54	
Carbon Tetrachloride	5.0 U	5.0	0.92	1	02/17/18 15:54	
Chlorobenzene	5.0 U	5.0	0.29	1	02/17/18 15:54	
Chloroethane	5.0 U	5.0	2.9	1	02/17/18 15:54	
Chloroform	5.0 U	5.0	1.3	1	02/17/18 15:54	
Chloromethane	5.0 U	5.0	0.40	1	02/17/18 15:54	
Cyclohexane	5.0 U	5.0	1.4	1	02/17/18 15:54	
Dibromochloromethane	5.0 U	5.0	0.73	1	02/17/18 15:54	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1.9	1	02/17/18 15:54	
Dichloromethane	5.0 U	5.0	0.57	1	02/17/18 15:54	
Ethylbenzene	5.0 U	5.0	0.23	1	02/17/18 15:54	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.67	1	02/17/18 15:54	
Methyl Acetate	5.0 U	5.0	1.8	1	02/17/18 15:54	
Methyl tert-Butyl Ether	5.0 U	5.0	0.94	1	02/17/18 15:54	
Methylcyclohexane	5.0 U	5.0	1.2	1	02/17/18 15:54	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801721-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.0 U	5.0	0.30	1	02/17/18 15:54	
Tetrachloroethene (PCE)	5.0 U	5.0	0.88	1	02/17/18 15:54	
Toluene	5.0 U	5.0	1.0	1	02/17/18 15:54	
Trichloroethene (TCE)	5.0 U	5.0	1.1	1	02/17/18 15:54	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.66	1	02/17/18 15:54	
Vinyl Chloride	5.0 U	5.0	1.9	1	02/17/18 15:54	
cis-1,2-Dichloroethene	5.0 U	5.0	0.95	1	02/17/18 15:54	
cis-1,3-Dichloropropene	5.0 U	5.0	0.90	1	02/17/18 15:54	
m,p-Xylenes	10 U	10	1.1	1	02/17/18 15:54	
n-Butylbenzene	5.0 U	5.0	0.98	1	02/17/18 15:54	
n-Propylbenzene	5.0 U	5.0	0.78	1	02/17/18 15:54	
o-Xylene	5.0 U	5.0	0.48	1	02/17/18 15:54	
sec-Butylbenzene	5.0 U	5.0	0.72	1	02/17/18 15:54	
tert-Butylbenzene	5.0 U	5.0	0.58	1	02/17/18 15:54	
trans-1,2-Dichloroethene	5.0 U	5.0	0.86	1	02/17/18 15:54	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	02/17/18 15:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	02/17/18 15:54	
Dibromofluoromethane	97	63 - 138	02/17/18 15:54	
Toluene-d8	101	66 - 138	02/17/18 15:54	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/16/18 11:29  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample      **Instrument ID:** R-MS-14  
**Lab Code:** RQ1801464-03      **File ID:** I:\ACQUADATA\MSVOA14\Data\021618\C4990.D\  
**Analysis Method:** 8260C      **Analysis Lot:** 580628  
**Prep Method:** EPA 5035A

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1801464-04	I:\ACQUADATA\MSVOA14\Data\021618\C4992.D\ \C4992.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 12:15
TB-04 (2.5)	R1801334-003	I:\ACQUADATA\MSVOA14\Data\021618\C4993.D\ \C4993.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 12:38
TB-07 (5.5)	R1801334-004	I:\ACQUADATA\MSVOA14\Data\021618\C4994.D\ \C4994.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 13:01
TB-10 (15.0)	R1801334-005	I:\ACQUADATA\MSVOA14\Data\021618\C4995.D\ \C4995.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 13:24
TB-13 (8.0)	R1801334-006	I:\ACQUADATA\MSVOA14\Data\021618\C4996.D\ \C4996.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 13:47
TB-15 (7.0-7.5)	R1801334-008	I:\ACQUADATA\MSVOA14\Data\021618\C4997.D\ \C4997.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 14:10
TB-19 (10.0)	R1801334-010	I:\ACQUADATA\MSVOA14\Data\021618\C4998.D\ \C4998.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 14:34
TB-20 (3.0)	R1801334-011	I:\ACQUADATA\MSVOA14\Data\021618\C4999.D\ \C4999.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 14:57
TB-21 (5.0)	R1801334-012	I:\ACQUADATA\MSVOA14\Data\021618\C5000.D\ \C5000.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 15:20
TB-22 (12.0)	R1801334-013	I:\ACQUADATA\MSVOA14\Data\021618\C5001.D\ \C5001.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 15:43
TB-07 (5.5)	R1801334-004	I:\ACQUADATA\MSVOA14\Data\021618\C5004.D\ \C5004.D\ I:\ACQUADATA\MSVOA14\Data\021618	02/16/18 16:52



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/17/18 15:06  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801721-03  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\021718\C5026.D\  
**Analysis Lot:** 580738

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1801721-04	I:\ACQUADATA\MSVOA14\Data\021718\C5028.D\	02/17/18 15:54
TB-21 (5.0)	RQ1801721-05	I:\ACQUADATA\MSVOA14\Data\021718\C5031.D\	02/17/18 17:03

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/20/18 11:22  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801521-03  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:**R-MS-12  
**File ID:**I:\ACQUADATA\msvoa12\Data\022018\P15885.D\  
**Analysis Lot:**580966

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1801521-04	I:\ACQUADATA\msvoa12\Data\022018\P15889.D\	02/20/18 13:00
TB-14 (7.0)	R1801334-007	I:\ACQUADATA\msvoa12\Data\022018\P15907.D\	02/20/18 19:34

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/16/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801464-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.1	20.0	96	40-140
1,1,2,2-Tetrachloroethane	8260C	18.7	20.0	93	40-140
1,1,2-Trichloroethane	8260C	19.3	20.0	97	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.5	20.0	97	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	20.5	20.0	103	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	19.1	20.0	95	40-140
1,2,3-Trichlorobenzene	8260C	15.8	20.0	79	40-140
1,2,4-Trichlorobenzene	8260C	18.0	20.0	90	40-140
1,2,4-Trimethylbenzene	8260C	20.2	20.0	101	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	15.0	20.0	75	40-140
1,2-Dibromoethane	8260C	19.3	20.0	97	40-140
1,2-Dichlorobenzene	8260C	19.9	20.0	100	40-140
1,2-Dichloroethane	8260C	20.1	20.0	100	40-140
1,2-Dichloropropane	8260C	19.7	20.0	98	40-140
1,3,5-Trimethylbenzene	8260C	19.9	20.0	100	40-140
1,3-Dichlorobenzene	8260C	20.2	20.0	101	40-140
1,4-Dichlorobenzene	8260C	19.6	20.0	98	40-140
1,4-Dioxane	8260C	389	400	97	40-140
2-Butanone (MEK)	8260C	21.4	20.0	107	40-140
2-Hexanone	8260C	19.9	20.0	100	40-140
4-Isopropyltoluene	8260C	19.3	20.0	96	40-140
4-Methyl-2-pentanone	8260C	19.5	20.0	97	40-140
Acetone	8260C	21.7	20.0	108	40-140
Benzene	8260C	19.8	20.0	99	40-140
Bromochloromethane	8260C	20.8	20.0	104	40-140
Bromodichloromethane	8260C	19.0	20.0	95	40-140
Bromoform	8260C	16.5	20.0	82	40-140
Bromomethane	8260C	16.5	20.0	82	40-140
Carbon Disulfide	8260C	18.1	20.0	90	40-140
Carbon Tetrachloride	8260C	17.0	20.0	85	40-140
Chlorobenzene	8260C	19.7	20.0	98	40-140
Chloroethane	8260C	21.2	20.0	106	40-140
Chloroform	8260C	20.5	20.0	103	40-140

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/16/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801464-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.0	20.0	85	40-140
Cyclohexane	8260C	21.6	20.0	108	40-140
Dibromochloromethane	8260C	17.8	20.0	89	40-140
Dichlorodifluoromethane (CFC 12)	8260C	18.6	20.0	93	40-140
Dichloromethane	8260C	19.9	20.0	99	40-140
Ethylbenzene	8260C	19.3	20.0	97	40-140
Isopropylbenzene (Cumene)	8260C	18.8	20.0	94	40-140
Methyl Acetate	8260C	20.6	20.0	103	40-140
Methyl tert-Butyl Ether	8260C	19.8	20.0	99	40-140
Methylcyclohexane	8260C	20.8	20.0	104	40-140
Styrene	8260C	19.2	20.0	96	40-140
Tetrachloroethene (PCE)	8260C	18.4	20.0	92	40-140
Toluene	8260C	19.6	20.0	98	40-140
Trichloroethene (TCE)	8260C	19.5	20.0	98	40-140
Trichlorofluoromethane (CFC 11)	8260C	20.8	20.0	104	40-140
Vinyl Chloride	8260C	20.1	20.0	101	40-140
cis-1,2-Dichloroethene	8260C	19.9	20.0	100	40-140
cis-1,3-Dichloropropene	8260C	18.7	20.0	93	40-140
m,p-Xylenes	8260C	38.8	40.0	97	40-140
n-Butylbenzene	8260C	19.4	20.0	97	40-140
n-Propylbenzene	8260C	19.8	20.0	99	40-140
o-Xylene	8260C	19.2	20.0	96	40-140
sec-Butylbenzene	8260C	18.7	20.0	94	40-140
tert-Butylbenzene	8260C	19.0	20.0	95	40-140
trans-1,2-Dichloroethene	8260C	20.0	20.0	100	40-140
trans-1,3-Dichloropropene	8260C	17.6	20.0	88	40-140

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/20/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801521-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.6	20.0	98	40-140
1,1,2,2-Tetrachloroethane	8260C	21.9	20.0	109	40-140
1,1,2-Trichloroethane	8260C	20.9	20.0	105	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.6	20.0	103	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	21.9	20.0	109	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	19.9	20.0	100	40-140
1,2,3-Trichlorobenzene	8260C	24.3	20.0	121	40-140
1,2,4-Trichlorobenzene	8260C	25.0	20.0	125	40-140
1,2,4-Trimethylbenzene	8260C	22.3	20.0	111	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.3	20.0	91	40-140
1,2-Dibromoethane	8260C	21.5	20.0	107	40-140
1,2-Dichlorobenzene	8260C	23.1	20.0	115	40-140
1,2-Dichloroethane	8260C	20.8	20.0	104	40-140
1,2-Dichloropropane	8260C	21.7	20.0	109	40-140
1,3,5-Trimethylbenzene	8260C	22.1	20.0	110	40-140
1,3-Dichlorobenzene	8260C	23.2	20.0	116	40-140
1,4-Dichlorobenzene	8260C	22.6	20.0	113	40-140
1,4-Dioxane	8260C	446	400	111	40-140
2-Butanone (MEK)	8260C	23.0	20.0	115	40-140
2-Hexanone	8260C	20.9	20.0	105	40-140
4-Isopropyltoluene	8260C	21.7	20.0	109	40-140
4-Methyl-2-pentanone	8260C	21.3	20.0	107	40-140
Acetone	8260C	21.8	20.0	109	40-140
Benzene	8260C	22.6	20.0	113	40-140
Bromochloromethane	8260C	21.1	20.0	105	40-140
Bromodichloromethane	8260C	19.6	20.0	98	40-140
Bromoform	8260C	20.0	20.0	100	40-140
Bromomethane	8260C	18.9	20.0	94	40-140
Carbon Disulfide	8260C	21.1	20.0	106	40-140
Carbon Tetrachloride	8260C	19.9	20.0	99	40-140
Chlorobenzene	8260C	22.2	20.0	111	40-140
Chloroethane	8260C	19.7	20.0	98	40-140
Chloroform	8260C	20.3	20.0	101	40-140

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/20/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801521-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	23.4	20.0	117	40-140
Cyclohexane	8260C	21.1	20.0	106	40-140
Dibromochloromethane	8260C	20.1	20.0	100	40-140
Dichlorodifluoromethane (CFC 12)	8260C	20.6	20.0	103	40-140
Dichloromethane	8260C	21.8	20.0	109	40-140
Ethylbenzene	8260C	20.7	20.0	103	40-140
Isopropylbenzene (Cumene)	8260C	21.6	20.0	108	40-140
Methyl Acetate	8260C	22.5	20.0	113	40-140
Methyl tert-Butyl Ether	8260C	20.8	20.0	104	40-140
Methylcyclohexane	8260C	23.0	20.0	115	40-140
Styrene	8260C	21.4	20.0	107	40-140
Tetrachloroethene (PCE)	8260C	21.1	20.0	105	40-140
Toluene	8260C	21.6	20.0	108	40-140
Trichloroethene (TCE)	8260C	21.6	20.0	108	40-140
Trichlorofluoromethane (CFC 11)	8260C	22.8	20.0	114	40-140
Vinyl Chloride	8260C	22.5	20.0	112	40-140
cis-1,2-Dichloroethene	8260C	21.4	20.0	107	40-140
cis-1,3-Dichloropropene	8260C	21.3	20.0	107	40-140
m,p-Xylenes	8260C	42.6	40.0	107	40-140
n-Butylbenzene	8260C	22.7	20.0	114	40-140
n-Propylbenzene	8260C	22.2	20.0	111	40-140
o-Xylene	8260C	21.2	20.0	106	40-140
sec-Butylbenzene	8260C	22.1	20.0	111	40-140
tert-Butylbenzene	8260C	21.2	20.0	106	40-140
trans-1,2-Dichloroethene	8260C	21.3	20.0	107	40-140
trans-1,3-Dichloropropene	8260C	21.1	20.0	105	40-140



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/17/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801721-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.5	20.0	93	40-140
1,1,2,2-Tetrachloroethane	8260C	18.0	20.0	90	40-140
1,1,2-Trichloroethane	8260C	19.7	20.0	98	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.6	20.0	93	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	20.2	20.0	101	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	18.4	20.0	92	40-140
1,2,3-Trichlorobenzene	8260C	16.2	20.0	81	40-140
1,2,4-Trichlorobenzene	8260C	18.0	20.0	90	40-140
1,2,4-Trimethylbenzene	8260C	19.8	20.0	99	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	14.7	20.0	73	40-140
1,2-Dibromoethane	8260C	18.8	20.0	94	40-140
1,2-Dichlorobenzene	8260C	19.8	20.0	99	40-140
1,2-Dichloroethane	8260C	20.0	20.0	100	40-140
1,2-Dichloropropane	8260C	20.1	20.0	100	40-140
1,3,5-Trimethylbenzene	8260C	19.2	20.0	96	40-140
1,3-Dichlorobenzene	8260C	20.0	20.0	100	40-140
1,4-Dichlorobenzene	8260C	19.6	20.0	98	40-140
1,4-Dioxane	8260C	386	400	97	40-140
2-Butanone (MEK)	8260C	20.0	20.0	100	40-140
2-Hexanone	8260C	18.3	20.0	91	40-140
4-Isopropyltoluene	8260C	18.9	20.0	95	40-140
4-Methyl-2-pentanone	8260C	17.9	20.0	89	40-140
Acetone	8260C	19.4	20.0	97	40-140
Benzene	8260C	19.5	20.0	98	40-140
Bromochloromethane	8260C	20.3	20.0	102	40-140
Bromodichloromethane	8260C	18.8	20.0	94	40-140
Bromoform	8260C	15.8	20.0	79	40-140
Bromomethane	8260C	16.5	20.0	83	40-140
Carbon Disulfide	8260C	19.8	20.0	99	40-140
Carbon Tetrachloride	8260C	16.6	20.0	83	40-140
Chlorobenzene	8260C	19.1	20.0	96	40-140
Chloroethane	8260C	20.5	20.0	102	40-140
Chloroform	8260C	20.5	20.0	102	40-140

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/17/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801721-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	16.6	20.0	83	40-140
Cyclohexane	8260C	20.5	20.0	102	40-140
Dibromochloromethane	8260C	17.6	20.0	88	40-140
Dichlorodifluoromethane (CFC 12)	8260C	17.7	20.0	88	40-140
Dichloromethane	8260C	19.8	20.0	99	40-140
Ethylbenzene	8260C	18.4	20.0	92	40-140
Isopropylbenzene (Cumene)	8260C	18.0	20.0	90	40-140
Methyl Acetate	8260C	18.8	20.0	94	40-140
Methyl tert-Butyl Ether	8260C	19.8	20.0	99	40-140
Methylcyclohexane	8260C	20.0	20.0	100	40-140
Styrene	8260C	18.8	20.0	94	40-140
Tetrachloroethene (PCE)	8260C	17.0	20.0	85	40-140
Toluene	8260C	19.1	20.0	95	40-140
Trichloroethene (TCE)	8260C	19.7	20.0	98	40-140
Trichlorofluoromethane (CFC 11)	8260C	19.8	20.0	99	40-140
Vinyl Chloride	8260C	19.6	20.0	98	40-140
cis-1,2-Dichloroethene	8260C	19.8	20.0	99	40-140
cis-1,3-Dichloropropene	8260C	18.7	20.0	94	40-140
m,p-Xylenes	8260C	37.3	40.0	93	40-140
n-Butylbenzene	8260C	19.0	20.0	95	40-140
n-Propylbenzene	8260C	19.0	20.0	95	40-140
o-Xylene	8260C	18.6	20.0	93	40-140
sec-Butylbenzene	8260C	18.1	20.0	90	40-140
tert-Butylbenzene	8260C	18.3	20.0	92	40-140
trans-1,2-Dichloroethene	8260C	19.8	20.0	99	40-140
trans-1,3-Dichloropropene	8260C	18.0	20.0	90	40-140

**ALS Group USA, Corp.**  
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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/16/18 10:24

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\021618\C4988.D\  
**Instrument ID:** R-MS-14

**Analytical Method:** 8260C  
**Analysis Lot:** 580628

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.44	19312	Pass
75	95	30	60	51.99	49128	Pass
95	95	100	100	100.00	94489	Pass
96	95	5	9	6.97	6587	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	79.97	75560	Pass
175	174	5	9	8.14	6149	Pass
176	174	95	101	96.91	73224	Pass
177	176	5	9	6.61	4837	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801464-02	I:\ACQUADATA\MSVOA14\Data\021618\C4989.D\	02/16/18 10:58	
Lab Control Sample	RQ1801464-03	I:\ACQUADATA\MSVOA14\Data\021618\C4990.D\	02/16/18 11:29	
Method Blank	RQ1801464-04	I:\ACQUADATA\MSVOA14\Data\021618\C4992.D\	02/16/18 12:15	
TB-04 (2.5)	R1801334-003	I:\ACQUADATA\MSVOA14\Data\021618\C4993.D\	02/16/18 12:38	
TB-07 (5.5)	R1801334-004	I:\ACQUADATA\MSVOA14\Data\021618\C4994.D\	02/16/18 13:01	
TB-10 (15.0)	R1801334-005	I:\ACQUADATA\MSVOA14\Data\021618\C4995.D\	02/16/18 13:24	
TB-13 (8.0)	R1801334-006	I:\ACQUADATA\MSVOA14\Data\021618\C4996.D\	02/16/18 13:47	
TB-15 (7.0-7.5)	R1801334-008	I:\ACQUADATA\MSVOA14\Data\021618\C4997.D\	02/16/18 14:10	
TB-19 (10.0)	R1801334-010	I:\ACQUADATA\MSVOA14\Data\021618\C4998.D\	02/16/18 14:34	
TB-20 (3.0)	R1801334-011	I:\ACQUADATA\MSVOA14\Data\021618\C4999.D\	02/16/18 14:57	
TB-21 (5.0)	R1801334-012	I:\ACQUADATA\MSVOA14\Data\021618\C5000.D\	02/16/18 15:20	
TB-22 (12.0)	R1801334-013	I:\ACQUADATA\MSVOA14\Data\021618\C5001.D\	02/16/18 15:43	
TB-07 (5.5)	R1801334-004	I:\ACQUADATA\MSVOA14\Data\021618\C5004.D\	02/16/18 16:52	

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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/17/18 14:03

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\MSVOA14\Data\021718\C5024.D\  
**Instrument ID:** R-MS-14

**Analytical Method:** 8260C  
**Analysis Lot:** 580738

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.55	20263	Pass
75	95	30	60	51.76	51041	Pass
95	95	100	100	100.00	98608	Pass
96	95	5	9	6.77	6679	Pass
173	174	0	2	0.47	362	Pass
174	95	50	120	78.66	77566	Pass
175	174	5	9	7.98	6189	Pass
176	174	95	101	96.54	74885	Pass
177	176	5	9	6.88	5152	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801721-02	I:\ACQUDATA\MSVOA14\Data\021718\C5025.D\	02/17/18 14:35	
Lab Control Sample	RQ1801721-03	I:\ACQUDATA\MSVOA14\Data\021718\C5026.D\	02/17/18 15:06	
Method Blank	RQ1801721-04	I:\ACQUDATA\MSVOA14\Data\021718\C5028.D\	02/17/18 15:54	
TB-21 (5.0)	RQ1801721-05	I:\ACQUDATA\MSVOA14\Data\021718\C5031.D\	02/17/18 17:03	

**ALS Group USA, Corp.**  
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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/20/18 10:24

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\msvoa12\Data\022018\P15883.D\  
**Instrument ID:** R-MS-12

**Analytical Method:** 8260C  
**Analysis Lot:** 580966

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.35	32664	Pass
75	95	30	60	49.04	82765	Pass
95	95	100	100	100.00	168763	Pass
96	95	5	9	6.89	11636	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	78.24	132045	Pass
175	174	5	9	7.52	9924	Pass
176	174	95	101	97.28	128451	Pass
177	176	5	9	6.47	8315	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801521-02	I:\ACQUADATA\msvoa12\Data\022018\P15884.D\	02/20/18 10:53	
Lab Control Sample	RQ1801521-03	I:\ACQUADATA\msvoa12\Data\022018\P15885.D\	02/20/18 11:22	
Method Blank	RQ1801521-04	I:\ACQUADATA\msvoa12\Data\022018\P15889.D\	02/20/18 13:00	
TB-14 (7.0)	R1801334-007	I:\ACQUADATA\msvoa12\Data\022018\P15907.D\	02/20/18 19:34	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/16/18 10:58

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\021618\C4989.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1801464-02  
**Analysis Lot:**580628  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	150,113	11.74	326,482	5.94	286,649	9.58
<b>Upper Limit ==&gt;</b>	300,226	12.24	652,964	6.44	573,298	10.08
<b>Lower Limit ==&gt;</b>	75,057	11.24	163,241	5.44	143,325	9.08

**Associated Analyses**

Lab Control Sample	RQ1801464-03	148879	11.74	321361	5.94	282569	9.58
Method Blank	RQ1801464-04	149786	11.74	327793	5.94	287432	9.58
TB-04 (2.5)	R1801334-003	97659	11.74	311971	5.94	258873	9.58
TB-07 (5.5)	R1801334-004	143900	11.74	316954	5.94	281844	9.58
TB-10 (15.0)	R1801334-005	90466	11.74	303339	5.94	242374	9.58
TB-13 (8.0)	R1801334-006	135337	11.74	296326	5.94	260049	9.58
TB-15 (7.0-7.5)	R1801334-008	97525	11.74	290597	5.94	235848	9.58
TB-19 (10.0)	R1801334-010	123867	11.74	286928	5.94	252727	9.58
TB-20 (3.0)	R1801334-011	97828	11.74	287294	5.94	235230	9.58
TB-21 (5.0)	R1801334-012	111029	11.74	294086	5.94	249014	9.58
TB-22 (12.0)	R1801334-013	132856	11.74	296418	5.94	262797	9.58
TB-07 (5.5)	R1801334-004.R01	106160	11.74	308767	5.94	262639	9.58



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/16/18 10:58

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\021618\C4989.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1801464-02  
**Analysis Lot:**580628  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	214,884	4.69
<b>Upper Limit ==&gt;</b>	429,768	5.19
<b>Lower Limit ==&gt;</b>	107,442	4.19

**Associated Analyses**

Lab Control Sample	RQ1801464-03	211075	4.69
Method Blank	RQ1801464-04	217621	4.69
TB-04 (2.5)	R1801334-003	204689	4.69
TB-07 (5.5)	R1801334-004	206239	4.69
TB-10 (15.0)	R1801334-005	202512	4.68
TB-13 (8.0)	R1801334-006	194449	4.69
TB-15 (7.0-7.5)	R1801334-008	192439	4.69
TB-19 (10.0)	R1801334-010	185856	4.69
TB-20 (3.0)	R1801334-011	188474	4.69
TB-21 (5.0)	R1801334-012	193343	4.69
TB-22 (12.0)	R1801334-013	195622	4.68
TB-07 (5.5)	R1801334-004.R01	201448	4.68

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/17/18 14:35

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\MSVOA14\Data\021718\C5025.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1801721-02  
**Analysis Lot:**580738  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	151,021	11.74	319,688	5.94	281,440	9.58
<b>Upper Limit ==&gt;</b>	302,042	12.24	639,376	6.44	562,880	10.08
<b>Lower Limit ==&gt;</b>	75,511	11.24	159,844	5.44	140,720	9.08

**Associated Analyses**

Lab Control Sample	RQ1801721-03	150577	11.74	323778	5.94	288943	9.58
Method Blank	RQ1801721-04	153196	11.74	323363	5.94	293467	9.58
TB-21 (5.0)	RQ1801721-05	121591	11.74	300829	5.94	259224	9.58

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/17/18 14:35

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\MSVOA14\Data\021718\C5025.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1801721-02  
**Analysis Lot:**580738  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	209,267	4.69
<b>Upper Limit ==&gt;</b>	418,534	5.19
<b>Lower Limit ==&gt;</b>	104,634	4.19

**Associated Analyses**

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Lab Control Sample	RQ1801721-03	211400	4.69
Method Blank	RQ1801721-04	212580	4.69
TB-21 (5.0)	RQ1801721-05	196810	4.69

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/20/18 10:53

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\msvoa12\Data\022018\P15884.D\  
**Instrument ID:** R-MS-12  
**Analysis Method:** 8260C

**Lab Code:**RQ1801521-02  
**Analysis Lot:**580966  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	264,790	11.84	555,110	6.47	505,885	9.78
<b>Upper Limit ==&gt;</b>	529,580	12.34	1,110,220	6.97	1,011,770	10.28
<b>Lower Limit ==&gt;</b>	132,395	11.34	277,555	5.97	252,943	9.28

**Associated Analyses**

Lab Control Sample	RQ1801521-03	242168	11.84	535714	6.47	482503	9.78
Method Blank	RQ1801521-04	222081	11.84	478534	6.47	425767	9.78
TB-14 (7.0)	R1801334-007	236867	11.84	451558	6.47	402626	9.78

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/20/18 10:53

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\msvoa12\Data\022018\P15884.D\  
**Instrument ID:** R-MS-12  
**Analysis Method:** 8260C

**Lab Code:**RQ1801521-02  
**Analysis Lot:**580966  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	331,591	5.38
<b>Upper Limit ==&gt;</b>	663,182	5.88
<b>Lower Limit ==&gt;</b>	165,796	4.88

**Associated Analyses**

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Lab Control Sample	RQ1801521-03	323583	5.38
Method Blank	RQ1801521-04	281434	5.38
TB-14 (7.0)	R1801334-007	271559	5.38



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		13 - 128	10 - 102	16 - 129
TB-01 (3.0)	R1801334-001	41	24	24
TB-02 (8.0)	R1801334-002	48	13	32
TB-04 (2.5)	R1801334-003	76	53	38
TB-14 (7.0)	R1801334-007	60	35	41
TB-18 (10.0-11.0)	R1801334-009	62	37	37
TB-24 (2.5)	R1801334-014	68	38	37
Method Blank	RQ1801495-01	63	57	52
Lab Control Sample	RQ1801495-02	83	60	50
Duplicate Lab Control Sample	RQ1801495-03	76	59	48
TB-24 (2.5) MS	RQ1801495-04	77	50	42
TB-24 (2.5) DMS	RQ1801495-05	75	47	39

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		10 - 95	10 - 145	16 - 126
TB-01 (3.0)	R1801334-001	28	24	41
TB-02 (8.0)	R1801334-002	34	39	21
TB-04 (2.5)	R1801334-003	44	46	73
TB-14 (7.0)	R1801334-007	45	44	60
TB-18 (10.0-11.0)	R1801334-009	44	38	58
TB-24 (2.5)	R1801334-014	45	38	85
Method Blank	RQ1801495-01	66	55	76
Lab Control Sample	RQ1801495-02	59	56	87
Duplicate Lab Control Sample	RQ1801495-03	54	55	79
TB-24 (2.5) MS	RQ1801495-04	46	47	84
TB-24 (2.5) DMS	RQ1801495-05	41	45	78

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18  
**Date Received:** 02/14/18  
**Date Analyzed:** 02/22/18  
**Date Extracted:** 02/20/18

**Duplicate Matrix Spike Summary**  
**Semivolatle Organic Compounds by GC/MS**

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Sample Result	Matrix Spike RQ1801495-04			Duplicate Matrix Spike RQ1801495-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4,5-Tetrachlorobenzene	370 U	1640	3830	43	1540	3830	40	10-101	7	30
2,3,4,6-Tetrachlorophenol	370 U	2650	3730	71	2680	3730	72	11-125	1	30
2,4,5-Trichlorophenol	370 U	2530	3730	68	2380	3730	64	19-103	6	30
2,4,6-Trichlorophenol	370 U	2350	3730	63	2210	3730	59	13-149	7	30
2,4-Dichlorophenol	370 U	1770	3730	47	1810	3730	48	16-98	2	30
2,4-Dimethylphenol	370 U	1660	3730	44	1660	3730	44	10-98	<1	30
2,4-Dinitrophenol	1900 U	2210	3730	59	2560	3730	69	10-129	16	30
2,4-Dinitrotoluene	370 U	3010	3730	81	3050	3730	82	13-127	1	30
2,6-Dinitrotoluene	370 U	2940	3730	79	2970	3730	80	14-121	1	30
2-Chloronaphthalene	370 U	1790	3730	48	1720	3730	46	10-94	4	30
2-Chlorophenol	370 U	1630	3730	44	1540	3730	41	14-99	7	30
2-Methylnaphthalene	370 U	1580	3730	42	1520	3730	41	10-90	2	30
2-Methylphenol	370 U	1700	3730	45	1670	3730	45	14-99	<1	30
2-Nitroaniline	1900 U	2760	3730	74	2580	3730	69	19-109	7	30
2-Nitrophenol	370 U	1900	3730	51	1840	3730	49	10-90	4	30
3,3'-Dichlorobenzidine	370 U	2440	3730	65	2570	3730	69	10-118	6	30
3- and 4-Methylphenol Coelution	370 U	1730	3730	46	1760	3730	47	11-101	2	30
3-Nitroaniline	1900 U	2540	3730	68	2540	3730	68	16-103	<1	30
4,6-Dinitro-2-methylphenol	1900 U	2940	3730	79	3140	3730	84	10-112	6	30
4-Bromophenyl Phenyl Ether	370 U	2600	3730	70	2560	3730	69	13-112	1	30
4-Chloro-3-methylphenol	370 U	2280	3730	61	2040	3730	55	18-110	10	30
4-Chloroaniline	370 U	1310	3730	35	1270	3730	34	10-91	3	30
4-Chlorophenyl Phenyl Ether	370 U	2390	3730	64	2310	3730	62	11-104	3	30
4-Nitroaniline	1900 U	2640	3730	71	2760	3730	74	17-114	4	30
4-Nitrophenol	1900 U	2960	3730	79	3110	3730	83	11-131	5	30
Acenaphthene	370 U	2040	3730	55	1910	3730	51	12-99	8	30
Acenaphthylene	370 U	2190	3730	59	2070	3730	55	10-102	7	30
Acetophenone	370 U	2930	7470	39	2670	7460	36	12-99	8	30
Anthracene	370 U	2840	3730	76	2870	3730	77	15-116	1	30
Atrazine	370 U	2990	3730	80	3060	3730	82	18-146	2	30
Benz(a)anthracene	93 J	2820	3730	73	2940	3730	76	10-129	4	30
Benzaldehyde	1900 U	1700 J	3730	46	1490 J	3730	40	10-200	14	30
Benzo(a)pyrene	100 J	2890	3730	75	3020	3730	78	10-127	4	30
Benzo(b)fluoranthene	170 J	2640	3730	66	2750	3730	69	14-128	4	30
Benzo(g,h,i)perylene	140 J	3260	3730	84	3330	3730	86	10-132	2	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18  
**Date Received:** 02/14/18  
**Date Analyzed:** 02/22/18  
**Date Extracted:** 02/20/18

**Duplicate Matrix Spike Summary**  
**Semivolatle Organic Compounds by GC/MS**

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Sample Result	Matrix Spike RQ1801495-04			Duplicate Matrix Spike RQ1801495-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(k)fluoranthene	370 U	2760	3730	74	2840	3730	76	16-118	3	30
Biphenyl	370 U	1850	3730	50	1770	3730	47	10-99	6	30
2,2'-Oxybis(1-chloropropane)	370 U	1760	3730	47	1510	3730	41	13-63	14	30
Bis(2-chloroethoxy)methane	370 U	1610	3730	43	1550	3730	42	16-93	2	30
Bis(2-chloroethyl) Ether	370 U	1500	3730	40	1320	3730	35	13-63	13	30
Bis(2-ethylhexyl) Phthalate	560 U	2850	3730	76	2930	3730	78	13-140	3	30
Butyl Benzyl Phthalate	370 U	2850	3730	76	2920	3730	78	19-125	3	30
Caprolactam	370 U	2520	3730	67	2490	3730	67	10-115	<1	30
Carbazole	370 U	2880	3730	77	3010	3730	81	21-118	5	30
Chrysene	110 J	2900	3730	75	2970	3730	77	10-133	3	30
Di-n-butyl Phthalate	370 U	2800	3730	75	2920	3730	78	19-128	4	30
Di-n-octyl Phthalate	370 U	2710	3730	73	2800	3730	75	16-140	3	30
Dibenz(a,h)anthracene	370 U	1770	3730	47	1800	3730	48	10-128	2	30
Dibenzofuran	370 U	2270	3730	61	2140	3730	57	13-99	7	30
Diethyl Phthalate	370 U	2340	3730	63	2320	3730	62	17-117	2	30
Dimethyl Phthalate	370 U	2270	3730	61	2200	3730	59	18-103	3	30
Fluoranthene	110 J	2990	3730	77	3110	3730	80	10-149	4	30
Fluorene	370 U	2320	3730	62	2250	3730	60	14-105	3	30
Hexachlorobenzene	370 U	2700	3730	72	2670	3730	72	14-114	<1	30
Hexachlorobutadiene	370 U	1380	3730	37	1230	3730	33	12-84	11	30
Hexachlorocyclopentadiene	370 U	1290	3730	35	1040	3730	28	10-101	22	30
Hexachloroethane	370 U	1290	3730	34	1070	3730	29	16-114	16	30
Indeno(1,2,3-cd)pyrene	110 J	3200	3730	83	3210	3730	83	10-129	<1	30
Isophorone	370 U	1570	3730	42	1480	3730	40	15-95	5	30
N-Nitrosodi-n-propylamine	370 U	1620	3730	43	1530	3730	41	11-98	5	30
N-Nitrosodiphenylamine	370 U	2810	3730	75	2760	3730	74	16-121	1	30
Naphthalene	370 U	1410	3730	38	1280	3730	34	10-83	11	30
Nitrobenzene	370 U	1460	3730	39	1360	3730	36	20-84	8	30
Pentachlorophenol (PCP)	1900 U	2990	3730	80	3480	3730	93	10-127	15	30
Phenanthrene	370 U	2740	3730	73	2810	3730	75	10-137	3	30
Phenol	370 U	1710	3730	46	1630	3730	44	10-109	4	30
Pyrene	98 J	2850	3730	74	2890	3730	75	10-147	1	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801495-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	330 U	330	96	1	02/21/18 16:19	2/20/18	
2,3,4,6-Tetrachlorophenol	330 U	330	82	1	02/21/18 16:19	2/20/18	
2,4,5-Trichlorophenol	330 U	330	82	1	02/21/18 16:19	2/20/18	
2,4,6-Trichlorophenol	330 U	330	86	1	02/21/18 16:19	2/20/18	
2,4-Dichlorophenol	330 U	330	68	1	02/21/18 16:19	2/20/18	
2,4-Dimethylphenol	330 U	330	63	1	02/21/18 16:19	2/20/18	
2,4-Dinitrophenol	1700 U	1700	62	1	02/21/18 16:19	2/20/18	
2,4-Dinitrotoluene	330 U	330	86	1	02/21/18 16:19	2/20/18	
2,6-Dinitrotoluene	330 U	330	120	1	02/21/18 16:19	2/20/18	
2-Chloronaphthalene	330 U	330	73	1	02/21/18 16:19	2/20/18	
2-Chlorophenol	330 U	330	80	1	02/21/18 16:19	2/20/18	
2-Methylnaphthalene	330 U	330	74	1	02/21/18 16:19	2/20/18	
2-Methylphenol	330 U	330	80	1	02/21/18 16:19	2/20/18	
2-Nitroaniline	1700 U	1700	95	1	02/21/18 16:19	2/20/18	
2-Nitrophenol	330 U	330	75	1	02/21/18 16:19	2/20/18	
3,3'-Dichlorobenzidine	330 U	330	110	1	02/21/18 16:19	2/20/18	
3- and 4-Methylphenol Coelution	330 U	330	83	1	02/21/18 16:19	2/20/18	
3-Nitroaniline	1700 U	1700	72	1	02/21/18 16:19	2/20/18	
4,6-Dinitro-2-methylphenol	1700 U	1700	72	1	02/21/18 16:19	2/20/18	
4-Bromophenyl Phenyl Ether	330 U	330	94	1	02/21/18 16:19	2/20/18	
4-Chloro-3-methylphenol	330 U	330	75	1	02/21/18 16:19	2/20/18	
4-Chloroaniline	330 U	330	40	1	02/21/18 16:19	2/20/18	
4-Chlorophenyl Phenyl Ether	330 U	330	79	1	02/21/18 16:19	2/20/18	
4-Nitroaniline	1700 U	1700	73	1	02/21/18 16:19	2/20/18	
4-Nitrophenol	1700 U	1700	200	1	02/21/18 16:19	2/20/18	
Acenaphthene	330 U	330	73	1	02/21/18 16:19	2/20/18	
Acenaphthylene	330 U	330	68	1	02/21/18 16:19	2/20/18	
Acetophenone	330 U	330	77	1	02/21/18 16:19	2/20/18	
Anthracene	330 U	330	64	1	02/21/18 16:19	2/20/18	
Atrazine	330 U	330	89	1	02/21/18 16:19	2/20/18	
Benz(a)anthracene	330 U	330	58	1	02/21/18 16:19	2/20/18	
Benzaldehyde	1700 U	1700	79	1	02/21/18 16:19	2/20/18	
Benzo(a)pyrene	330 U	330	67	1	02/21/18 16:19	2/20/18	
Benzo(b)fluoranthene	330 U	330	60	1	02/21/18 16:19	2/20/18	
Benzo(g,h,i)perylene	330 U	330	75	1	02/21/18 16:19	2/20/18	
Benzo(k)fluoranthene	330 U	330	74	1	02/21/18 16:19	2/20/18	
Biphenyl	330 U	330	77	1	02/21/18 16:19	2/20/18	
2,2'-Oxybis(1-chloropropane)	330 U	330	81	1	02/21/18 16:19	2/20/18	
Bis(2-chloroethoxy)methane	330 U	330	76	1	02/21/18 16:19	2/20/18	
Bis(2-chloroethyl) Ether	330 U	330	60	1	02/21/18 16:19	2/20/18	
Bis(2-ethylhexyl) Phthalate	500 U	500	460	1	02/21/18 16:19	2/20/18	
Butyl Benzyl Phthalate	330 U	330	63	1	02/21/18 16:19	2/20/18	
Caprolactam	330 U	330	74	1	02/21/18 16:19	2/20/18	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801495-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	330 U	330	82	1	02/21/18 16:19	2/20/18	
Chrysene	330 U	330	65	1	02/21/18 16:19	2/20/18	
Di-n-butyl Phthalate	330 U	330	110	1	02/21/18 16:19	2/20/18	
Di-n-octyl Phthalate	330 U	330	99	1	02/21/18 16:19	2/20/18	
Dibenz(a,h)anthracene	330 U	330	60	1	02/21/18 16:19	2/20/18	
Dibenzofuran	330 U	330	68	1	02/21/18 16:19	2/20/18	
Diethyl Phthalate	330 U	330	180	1	02/21/18 16:19	2/20/18	
Dimethyl Phthalate	330 U	330	91	1	02/21/18 16:19	2/20/18	
Fluoranthene	330 U	330	78	1	02/21/18 16:19	2/20/18	
Fluorene	330 U	330	83	1	02/21/18 16:19	2/20/18	
Hexachlorobenzene	330 U	330	77	1	02/21/18 16:19	2/20/18	
Hexachlorobutadiene	330 U	330	56	1	02/21/18 16:19	2/20/18	
Hexachlorocyclopentadiene	330 U	330	55	1	02/21/18 16:19	2/20/18	
Hexachloroethane	330 U	330	58	1	02/21/18 16:19	2/20/18	
Indeno(1,2,3-cd)pyrene	330 U	330	73	1	02/21/18 16:19	2/20/18	
Isophorone	330 U	330	71	1	02/21/18 16:19	2/20/18	
N-Nitrosodi-n-propylamine	330 U	330	60	1	02/21/18 16:19	2/20/18	
N-Nitrosodiphenylamine	330 U	330	150	1	02/21/18 16:19	2/20/18	
Naphthalene	330 U	330	68	1	02/21/18 16:19	2/20/18	
Nitrobenzene	330 U	330	68	1	02/21/18 16:19	2/20/18	
Pentachlorophenol (PCP)	1700 U	1700	110	1	02/21/18 16:19	2/20/18	
Phenanthrene	330 U	330	69	1	02/21/18 16:19	2/20/18	
Phenol	330 U	330	72	1	02/21/18 16:19	2/20/18	
Pyrene	330 U	330	65	1	02/21/18 16:19	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	63	13 - 128	02/21/18 16:19	
2-Fluorobiphenyl	57	10 - 102	02/21/18 16:19	
2-Fluorophenol	52	16 - 129	02/21/18 16:19	
Nitrobenzene-d5	66	10 - 95	02/21/18 16:19	
Phenol-d6	55	10 - 145	02/21/18 16:19	
Terphenyl-d14	76	16 - 126	02/21/18 16:19	

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 16:47  
**Date Extracted:** 02/20/18

**Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample      **Instrument ID:** R-MS-54  
**Lab Code:** RQ1801495-02      **File ID:** I:\ACQUADATA\5973D\Data\022118\BN165.D\  
**Analysis Method:** 8270D      **Analysis Lot:** 581099  
**Prep Method:** EPA 3541      **Extraction Lot:** 308593

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1801495-01	I:\ACQUADATA\5973D\Data\022118\BN164.D\	02/21/18 16:19
Duplicate Lab Control Sample	RQ1801495-03	I:\ACQUADATA\5973D\Data\022118\BN166.D\	02/21/18 17:14
TB-01 (3.0)	R1801334-001	I:\ACQUADATA\5973D\Data\022118\BN171.D\	02/21/18 19:33
TB-14 (7.0)	R1801334-007	I:\ACQUADATA\5973D\Data\022218\BN187.D\	02/22/18 11:10
TB-02 (8.0)	R1801334-002	I:\ACQUADATA\5973D\Data\022218\BN188.D\	02/22/18 11:38
TB-04 (2.5)	R1801334-003	I:\ACQUADATA\5973D\Data\022218\BN189.D\	02/22/18 12:06
TB-18 (10.0-11.0)	R1801334-009	I:\ACQUADATA\5973D\Data\022218\BN190.D\	02/22/18 12:34
TB-24 (2.5)	R1801334-014	I:\ACQUADATA\5973D\Data\022218\BN191.D\	02/22/18 13:01
TB-24 (2.5)	RQ1801495-04	I:\ACQUADATA\5973D\Data\022218\BN192.D\	02/22/18 13:29
TB-24 (2.5)	RQ1801495-05	I:\ACQUADATA\5973D\Data\022218\BN193.D\	02/22/18 13:57

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801495-02				Duplicate Lab Control Sample RQ1801495-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	1770	3420	52	1760	3420	52	31-127	<1	30
2,3,4,6-Tetrachlorophenol	8270D	2680	3330	80	2440	3330	73	37-123	9	30
2,4,5-Trichlorophenol	8270D	2470	3330	74	2510	3330	75	32-104	1	30
2,4,6-Trichlorophenol	8270D	2330	3330	70	2400	3330	72	30-101	3	30
2,4-Dichlorophenol	8270D	2090	3330	63	2060	3330	62	39-135	2	30
2,4-Dimethylphenol	8270D	2030	3330	61	2000	3330	60	31-135	2	30
2,4-Dinitrophenol	8270D	2180	3330	65	1850	3330	55	10-128	17	30
2,4-Dinitrotoluene	8270D	3010	3330	90	2860	3330	86	39-122	5	30
2,6-Dinitrotoluene	8270D	2970	3330	89	2950	3330	88	34-122	1	30
2-Chloronaphthalene	8270D	1910	3330	57	1950	3330	58	41-124	2	30
2-Chlorophenol	8270D	1760	3330	53	1720	3330	51	39-123	4	30
2-Methylnaphthalene	8270D	1780	3330	53	1770	3330	53	33-125	<1	30
2-Methylphenol	8270D	1870	3330	56	1870	3330	56	38-123	<1	30
2-Nitroaniline	8270D	2700	3330	81	2710	3330	81	25-116	<1	30
2-Nitrophenol	8270D	2190	3330	66	2040	3330	61	23-96	8	30
3,3'-Dichlorobenzidine	8270D	2460	3330	74	2360	3330	71	25-105	4	30
3- and 4-Methylphenol Coelution	8270D	1920	3330	57	1920	3330	58	42-114	2	30
3-Nitroaniline	8270D	2560	3330	77	2420	3330	73	43-106	5	30
4,6-Dinitro-2-methylphenol	8270D	2940	3330	88	2640	3330	79	10-127	11	30
4-Bromophenyl Phenyl Ether	8270D	2480	3330	75	2490	3330	75	40-102	<1	30
4-Chloro-3-methylphenol	8270D	2330	3330	70	2330	3330	70	42-140	<1	30
4-Chloroaniline	8270D	1530	3330	46	1550	3330	46	34-101	<1	30
4-Chlorophenyl Phenyl Ether	8270D	2340	3330	70	2360	3330	71	39-100	1	30
4-Nitroaniline	8270D	2850	3330	85	2580	3330	78	35-112	9	30
4-Nitrophenol	8270D	3180	3330	96	2850	3330	86	34-123	11	30
Acenaphthene	8270D	2020	3330	61	2060	3330	62	32-100	2	30
Acenaphthylene	8270D	2230	3330	67	2270	3330	68	33-100	1	30
Acetophenone	8270D	3130	6670	47	3060	6670	46	23-87	2	30
Anthracene	8270D	2820	3330	85	2700	3330	81	46-103	5	30
Atrazine	8270D	2960	3330	89	2790	3330	84	44-137	6	30
Benz(a)anthracene	8270D	2970	3330	89	2710	3330	81	32-105	9	30
Benzaldehyde	8270D	1800	3330	54	1820	3330	54	10-200	<1	30
Benzo(a)pyrene	8270D	3140	3330	94	2840	3330	85	48-110	10	30

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801495-02				Duplicate Lab Control Sample RQ1801495-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzo(b)fluoranthene	8270D	2850	3330	86	2570	3330	77	44-107	11	30
Benzo(g,h,i)perylene	8270D	3540	3330	106	3270	3330	98	49-120	8	30
Benzo(k)fluoranthene	8270D	2920	3330	87	2670	3330	80	46-107	8	30
Biphenyl	8270D	2000	3330	60	2010	3330	60	24-104	<1	30
2,2'-Oxybis(1-chloropropane)	8270D	1890	3330	57	1820	3330	55	13-63	4	30
Bis(2-chloroethoxy)methane	8270D	1860	3330	56	1800	3330	54	28-91	4	30
Bis(2-chloroethyl) Ether	8270D	1530	3330	46	1520	3330	46	13-63	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	2950	3330	89	2730	3330	82	35-119	8	30
Butyl Benzyl Phthalate	8270D	2890	3330	87	2670	3330	80	47-117	8	30
Caprolactam	8270D	2690	3330	81	2440	3330	73	30-111	10	30
Carbazole	8270D	3010	3330	90	2830	3330	85	41-112	6	30
Chrysene	8270D	2980	3330	89	2780	3330	83	48-111	7	30
Di-n-butyl Phthalate	8270D	2860	3330	86	2680	3330	81	51-120	6	30
Di-n-octyl Phthalate	8270D	2790	3330	84	2560	3330	77	47-127	9	30
Dibenz(a,h)anthracene	8270D	1820	3330	55	1770	3330	53	46-114	4	30
Dibenzofuran	8270D	2220	3330	67	2250	3330	68	34-97	1	30
Diethyl Phthalate	8270D	2310	3330	69	2170	3330	65	45-108	6	30
Dimethyl Phthalate	8270D	2200	3330	66	2180	3330	65	41-101	2	30
Fluoranthene	8270D	3150	3330	95	2950	3330	88	45-113	8	30
Fluorene	8270D	2260	3330	68	2270	3330	68	38-101	<1	30
Hexachlorobenzene	8270D	2640	3330	79	2570	3330	77	41-106	3	30
Hexachlorobutadiene	8270D	1620	3330	49	1490	3330	45	10-142	9	30
Hexachlorocyclopentadiene	8270D	1790	3330	54	1630	3330	49	10-133	10	30
Hexachloroethane	8270D	1310	3330	39	1360	3330	41	10-129	5	30
Indeno(1,2,3-cd)pyrene	8270D	3410	3330	102	3160	3330	95	46-115	7	30
Isophorone	8270D	1780	3330	53	1750	3330	53	27-95	<1	30
N-Nitrosodi-n-propylamine	8270D	1710	3330	51	1700	3330	51	21-89	<1	30
N-Nitrosodiphenylamine	8270D	2700	3330	81	2690	3330	81	37-116	<1	30
Naphthalene	8270D	1600	3330	48	1540	3330	46	31-123	4	30
Nitrobenzene	8270D	1680	3330	50	1600	3330	48	35-134	4	30
Pentachlorophenol (PCP)	8270D	3100	3330	93	2890	3330	87	10-137	7	30
Phenanthrene	8270D	2700	3330	81	2640	3330	79	45-106	3	30
Phenol	8270D	1830	3330	55	1850	3330	55	10-144	<1	30

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Pyrene	8270D	2900	3330	87	2700	3330	81	48-117	7	30

**ALS Group USA, Corp.**  
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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/21/18 07:54

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\022118\BN147.D\  
**Instrument ID:** R-MS-54

**Analytical Method:** 8270D  
**Analysis Lot:** 581099

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	35.29	21630	Pass
68	69	0.00	2	0.53	131	Pass
69	198	0.00	100	40.20	24640	Pass
70	69	0.00	2	0.71	175	Pass
127	198	10	80	51.95	31840	Pass
197	198	0.00	2	0.81	495	Pass
198	198	100	100	100.00	61288	Pass
199	198	5	9	6.73	4123	Pass
275	198	10	60	26.77	16407	Pass
365	198	1	100	4.03	2467	Pass
441	442	0.01	24	15.17	10985	Pass
442	442	100	100	100.00	72403	Pass
443	442	15	24	19.15	13867	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801561-04	I:\ACQUADATA\5973D\Data\022118\BN148.D\	02/21/18 08:30	
Method Blank	RQ1801495-01	I:\ACQUADATA\5973D\Data\022118\BN164.D\	02/21/18 16:19	
Lab Control Sample	RQ1801495-02	I:\ACQUADATA\5973D\Data\022118\BN165.D\	02/21/18 16:47	
Duplicate Lab Control Sample	RQ1801495-03	I:\ACQUADATA\5973D\Data\022118\BN166.D\	02/21/18 17:14	
TB-01 (3.0)	R1801334-001	I:\ACQUADATA\5973D\Data\022118\BN171.D\	02/21/18 19:33	



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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/22/18 08:05

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\022218\BN181.D\  
**Instrument ID:** R-MS-54

**Analytical Method:** 8270D  
**Analysis Lot:** 581270

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	36.44	24422	Pass
68	69	0.00	2	1.58	451	Pass
69	198	0.00	100	42.64	28574	Pass
70	69	0.00	2	0.52	150	Pass
127	198	10	80	52.50	35182	Pass
197	198	0.00	2	0.39	259	Pass
198	198	100	100	100.00	67011	Pass
199	198	5	9	6.81	4562	Pass
275	198	10	60	25.35	16984	Pass
365	198	1	100	3.73	2498	Pass
441	442	0.01	24	14.26	9015	Pass
442	442	100	100	100.00	63209	Pass
443	442	15	24	19.69	12446	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801622-02	I:\ACQUADATA\5973D\Data\022218\BN182.D\	02/22/18 08:32	
TB-14 (7.0)	R1801334-007	I:\ACQUADATA\5973D\Data\022218\BN187.D\	02/22/18 11:10	
TB-02 (8.0)	R1801334-002	I:\ACQUADATA\5973D\Data\022218\BN188.D\	02/22/18 11:38	
TB-04 (2.5)	R1801334-003	I:\ACQUADATA\5973D\Data\022218\BN189.D\	02/22/18 12:06	
TB-18 (10.0-11.0)	R1801334-009	I:\ACQUADATA\5973D\Data\022218\BN190.D\	02/22/18 12:34	
TB-24 (2.5)	R1801334-014	I:\ACQUADATA\5973D\Data\022218\BN191.D\	02/22/18 13:01	
TB-24 (2.5)	RQ1801495-04	I:\ACQUADATA\5973D\Data\022218\BN192.D\	02/22/18 13:29	
TB-24 (2.5)	RQ1801495-05	I:\ACQUADATA\5973D\Data\022218\BN193.D\	02/22/18 13:57	

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/21/18 08:30

**Internal Standard Area and RT SUMMARY**  
**Semivolatle Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\022118\BN148.D\  
**Instrument ID:** R-MS-54  
**Analysis Method:** 8270D

**Lab Code:**RQ1801561-04  
**Analysis Lot:**581099  
**Signal ID:**

	1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	130,441	4.85	251,820	7.72	433,493	12.51
<b>Upper Limit ==&gt;</b>	260,882	5.35	503,640	8.22	866,986	13.01
<b>Lower Limit ==&gt;</b>	65,221	4.35	125,910	7.22	216,747	12.01

**Associated Analyses**

Method Blank	RQ1801495-01	95614	4.85	178967	7.72	321167	12.50
Lab Control Sample	RQ1801495-02	92805	4.85	174592	7.72	319163	12.50
Duplicate Lab Control Sample	RQ1801495-03	80945	4.85	158809	7.72	283680	12.50
TB-01 (3.0)	R1801334-001	96055	4.85	181584	7.72	337841	12.50

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/21/18 08:30

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973D\Data\022118\BN148.D\  
**Instrument ID:** R-MS-54  
**Analysis Method:** 8270D

**Lab Code:**RQ1801561-04  
**Analysis Lot:**581099  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	505,166	6.02	435,085	15.48	452,809	9.19
<b>Upper Limit ==&gt;</b>	1,010,332	6.52	870,170	15.98	905,618	9.69
<b>Lower Limit ==&gt;</b>	252,583	5.52	217,543	14.98	226,405	8.69

**Associated Analyses**

Method Blank	RQ1801495-01	350864	6.02	343047	15.47	314309	9.19
Lab Control Sample	RQ1801495-02	366717	6.02	324770	15.47	301405	9.19
Duplicate Lab Control Sample	RQ1801495-03	331229	6.02	292370	15.47	265400	9.19
TB-01 (3.0)	R1801334-001	352946	6.02	360257	15.48	325482	9.19

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/22/18 08:32

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\022218\BN182.D\  
**Instrument ID:** R-MS-54  
**Analysis Method:** 8270D

**Lab Code:**RQ1801622-02  
**Analysis Lot:**581270  
**Signal ID:**

	1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	120,159	4.85	234,832	7.72	439,272	12.51
<b>Upper Limit ==&gt;</b>	240,318	5.35	469,664	8.22	878,544	13.01
<b>Lower Limit ==&gt;</b>	60,080	4.35	117,416	7.22	219,636	12.01

**Associated Analyses**

TB-14 (7.0)	R1801334-007	108222	4.85	209057	7.72	356898	12.50
TB-02 (8.0)	R1801334-002	86401	4.85	166590	7.72	310701	12.50
TB-04 (2.5)	R1801334-003	102657	4.85	204166	7.72	374785	12.50
TB-18 (10.0-11.0)	R1801334-009	92857	4.85	178831	7.72	325930	12.50
TB-24 (2.5)	R1801334-014	95923	4.85	183223	7.72	332299	12.50
TB-24 (2.5)	RQ1801495-04	98645	4.85	197188	7.72	339436	12.51
TB-24 (2.5)	RQ1801495-05	91746	4.85	181674	7.72	326174	12.51

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334  
**Date Analyzed:**02/22/18 08:32

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\022218\BN182.D\  
**Instrument ID:** R-MS-54  
**Analysis Method:** 8270D

**Lab Code:**RQ1801622-02  
**Analysis Lot:**581270  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	472,998	6.01	432,895	15.48	437,108	9.19
<b>Upper Limit ==&gt;</b>	945,996	6.51	865,790	15.98	874,216	9.69
<b>Lower Limit ==&gt;</b>	236,499	5.51	216,448	14.98	218,554	8.69

**Associated Analyses**

		Area	RT	Area	RT	Area	RT
TB-14 (7.0)	R1801334-007	403526	6.01	379021	15.47	358589	9.19
TB-02 (8.0)	R1801334-002	326121	6.02	313238	15.47	310660	9.19
TB-04 (2.5)	R1801334-003	394421	6.02	384157	15.48	374692	9.19
TB-18 (10.0-11.0)	R1801334-009	343124	6.01	345462	15.48	319912	9.19
TB-24 (2.5)	R1801334-014	354821	6.02	345076	15.47	325185	9.19
TB-24 (2.5)	RQ1801495-04	426318	6.02	349098	15.48	332365	9.19
TB-24 (2.5)	RQ1801495-05	386844	6.02	332217	15.48	309167	9.19



## Semivolatile Organic Compounds by GC

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334

**SURROGATE RECOVERY SUMMARY**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		22 - 128	14 - 119
TB-14 (7.0)	R1801334-007	74	32
Method Blank	RQ1801494-01	78	71
Lab Control Sample	RQ1801494-02	72	63
Duplicate Lab Control Sample	RQ1801494-03	88	75



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801494-01

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	17	1	02/21/18 14:25	2/20/18	
Aroclor 1221	67 U	67	33	1	02/21/18 14:25	2/20/18	
Aroclor 1232	33 U	33	20	1	02/21/18 14:25	2/20/18	
Aroclor 1242	33 U	33	17	1	02/21/18 14:25	2/20/18	
Aroclor 1248	33 U	33	26	1	02/21/18 14:25	2/20/18	
Aroclor 1254	33 U	33	19	1	02/21/18 14:25	2/20/18	
Aroclor 1260	33 U	33	17	1	02/21/18 14:25	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	22 - 128	02/21/18 14:25	
Tetrachloro-m-xylene	71	14 - 119	02/21/18 14:25	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 14:45  
**Date Extracted:** 02/20/18

**Lab Control Sample Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801494-02  
**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

**Instrument ID:**R-GC-54  
**File ID:**I:\ACQUADATA\6890D\DATA\022118\GA823.D\  
**Analysis Lot:**581202  
**Extraction Lot:**308592

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1801494-01	I:\ACQUADATA\6890D\DATA\022118\GA822.D\	02/21/18 14:25
Duplicate Lab Control Sample	RQ1801494-03	I:\ACQUADATA\6890D\DATA\022118\GA824.D\	02/21/18 15:04
TB-14 (7.0)	R1801334-007	I:\ACQUADATA\6890D\DATA\022118\GA825.D\	02/21/18 15:24

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18

**Duplicate Lab Control Sample Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Aroclor 1016	8082A	110	167	66	141	167	85	43-129	25	30
Aroclor 1260	8082A	125	167	75	159	167	95	49-135	24	30

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801494-02

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:**

**Units:** ug/Kg  
**Basis:** Dry

Polychlorinated Biphenyls (PCBs) by GC

**Analytical Method:** 8082A  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	17	110	111	<1		1	02/21/18 14:45
Aroclor 1260	17	125	132	5		1	02/21/18 14:45



ALS Group USA, Corp.  
dba ALS Environmental

Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** RQ1801494-03

**Service Request:** R1801334  
**Date Collected:** NA  
**Date Received:**

**Units:** ug/Kg  
**Basis:** Dry

Polychlorinated Biphenyls (PCBs) by GC

**Analytical Method:** 8082A  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	17	141	144	2		1	02/21/18 15:04
Aroclor 1260	17	159	161	1		1	02/21/18 15:04



# Metals

**ALS Environmental—Rochester Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	961	96	1000	946	95	940	94	P
Barium	10000	10400	104	10000	10300	103	10300	103	P
Cadmium	500	500	100	500	495	99	489	98	P
Mercury	3.00	2.97	99	3.00	3.03	101	3.14	105	CV
Chromium	500	518	104	500	516	103	518	104	P
Lead	500	499	100	500	495	99	488	98	P
Selenium	500	482	96	500	475	95	471	94	P
Silver	500	489	98	500	487	97	486	97	P

Comments:

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	938	94	931	93	P
Barium				10000	10300	103	10300	103	P
Cadmium				500	487	97	484	97	P
Mercury				3.00	3.31	110			CV
Chromium				500	518	104	517	103	P
Lead				500	487	97	485	97	P
Selenium				500	467	93	468	94	P
Silver				500	486	97	485	97	P

Comments:

**METALS**  
-2B-  
CRDL STANDARD FOR AA AND ICP

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TB-01 (3.0)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	21.00	105	20.10	100
Barium				200.0	210.50	105	208.70	104
Cadmium				10.0	9.90	99	9.60	96
Mercury	0.200	0.200	100					
Chromium				10.0	10.00	100	10.00	100
Lead				10.0	9.80	98	9.60	96
Selenium				10.0	11.10	111	9.90	99
Silver				10.0	9.80	98	9.50	95

Comments:

**METALS**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TB-01 (3.0)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.213	106					

Comments:



METALS

-3-

BLANKS

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank				
		1	C	2	C	3	C	C	U	M		
Arsenic	2.90 U	2.90	U	2.90	U	2.90	U	2.90	U	0.290	U	P
Barium	0.73 U	0.73	U	1.20	J	1.70	J	0.073	U	0.073	U	P
Cadmium	0.17 U	0.17	U	0.17	U	0.17	U	0.017	U	0.017	U	P
Mercury	0.057 U	0.057	U	0.057	U	0.057	U	0.009	U	0.009	U	CV
Chromium	0.91 U	0.91	U	0.91	U	0.91	U	0.091	U	0.091	U	P
Lead	1.94 U	1.94	U	1.94	U	1.94	U	0.194	U	0.194	U	P
Selenium	3.77 U	3.77	U	3.77	U	3.77	U	0.377	U	0.377	U	P
Silver	0.66 U	0.66	U	0.66	U	0.66	U	0.066	U	0.066	U	P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		2.90	U							P
Barium		2.80	J							P
Cadmium		0.20	J							P
Chromium		0.91	U							P
Lead		1.94	U							P
Selenium		3.77	U							P
Silver		0.66	U							P

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	0.8	102	102	2.6	100	100
Barium		500	0.5	532	106	0.5	528	106
Cadmium		1000	-1.1	959	96	-1.0	942	94
Chromium		500	0.2	503	101	0.1	504	101
Lead		50	-0.8	48	96	-1.0	47	94
Selenium		50	2.6	54	108	-1.0	52	104
Silver		200	0.1	215	108	-0.1	214	107

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TB-24 (2.5)S

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	9.50	5.84	4.4	83		P
Barium	75 - 125	245.00	24.40	219.0	101		P
Cadmium	75 - 125	6.44	1.36	5.5	92		P
Mercury	75 - 125	0.212	0.024 J	0.18	104		CV
Chromium	75 - 125	34.20	14.00	21.9	92		P
Lead	75 - 125	98.70	45.60	54.7	97		P
Selenium	75 - 125	98.40	0.81 J	111.0	88		P
Silver	75 - 125	5.23	0.07 U	5.5	95		P

Comments:

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 \_\_\_\_\_  
 \_\_\_\_\_

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TB-24 (2.5) SD

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	9.43	5.84	4.3	83		P
Barium	75 - 125	242.00	24.40	215.0	101		P
Cadmium	75 - 125	6.35	1.36	5.4	92		P
Mercury	75 - 125	0.216	0.024 J	0.18	107		CV
Chromium	75 - 125	34.20	14.00	21.5	94		P
Lead	75 - 125	91.10	45.60	53.7	85		P
Selenium	75 - 125	97.60	0.81 J	108.0	90		P
Silver	75 - 125	5.22	0.07 U	5.4	97		P

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

METALS  
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

TB-24 (2.5)A

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Matrix (soil/water): SOIL \_\_\_\_\_ Level (low/med): LOW \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added(SA)	%R	Q	M
Arsenic		82.00	52.30	40.0	74		P
Barium		2150.00	219.00	2000.0	97		P
Cadmium		57.40	12.20	50.0	90		P
Chromium		312.00	125.00	200.0	94		P
Lead		839.00	408.00	500.0	86		P
Selenium		953.00	7.30 J	1010.0	94		P
Silver		43.00	0.66 U	50.0	86		P

Comments:

\_\_\_\_\_



METALS  
-6-  
DUPLICATES

SAMPLE NO.

TB-24 (2.5)SD

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 88.7 % Solids for Duplicate: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Arsenic		9.50	9.43	1		P
Barium		245.00	242.00	1		P
Cadmium		6.44	6.35	1		P
Mercury		0.212	0.216	2		CV
Chromium		34.20	34.20	0		P
Lead		98.70	91.10	8		P
Selenium		98.40	97.60	1		P
Silver		5.23	5.22	0		P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Solid LCS Source: CPI

Aqueous LCS Source: \_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/K)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				4	3.73		3.2   4.8	93
Barium				200	204.61		160   240	102
Cadmium				5	4.92		4   6	98
Mercury				0.166	0.15		.133   .199	90
Chromium				20	20.07		16   24	100
Lead				50	48.34		40   60	97
Selenium				101	88.95		80.8   121	88
Silver				5	4.62		4   6	92

Comments: \_\_\_\_\_

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

TB-24 (2.5)L

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Matrix (soil/water): SOIL \_\_\_\_\_ Level (low/med): LOW \_\_\_\_\_

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	52.30	59.50	14		P
Barium	219.00	226.00	3		P
Cadmium	12.20	13.00	7		P
Chromium	125.00	128.00	2		P
Lead	408.00	426.00	4		P
Selenium	7.30	18.80	100.0		P
Silver	0.66	3.30			P

Comments: \_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

ICP ID Number: \_\_\_\_\_ Date: 5/5/2017

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.057	CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

ICP ID Number: Agilent ICP Date: 3/16/2017

Flame AA ID Number: \_\_\_\_\_

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Arsenic	188.980		10.0	2.90	P
Barium	230.424		20.0	0.73	P
Cadmium	214.439		5.0	0.17	P
Chromium	267.716		10.0	0.91	P
Lead	220.353		50.0	1.94	P
Selenium	196.026		10.0	3.77	P
Silver	328.068		10.0	0.66	P

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
ICP LINEAR RANGES (QUARTERLY)

-12-

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

ICP ID Number: Agilent ICP Date: 4/28/2017

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Cadmium	1.000	2000	P
Chromium	1.000	10000	P
Lead	1.000	10000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



METALS  
-14-

ANALYSIS RUN LOG

Contract: R1801334  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TB-01 (3.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 2/21/2018 End Date: 2/21/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	18:21				X	X		X	X				X						X	X					
STANDARD 1	1.00	18:25				X	X		X	X				X						X	X					
STANDARD 2	1.00	18:28				X	X		X	X				X						X	X					
STANDARD 3	1.00	18:32				X	X		X	X				X						X	X					
STANDARD 4	1.00	18:35				X	X		X	X				X						X	X					
STANDARD 5	1.00	18:38				X	X		X	X				X						X	X					
ICV1	1.00	18:42				X	X		X	X				X						X	X					
ICB1	1.00	18:45				X	X		X	X				X						X	X					
CRDL1	1.00	18:48				X	X		X	X				X						X	X					
ICS-A1	1.00	18:52				X	X		X	X				X						X	X					
ICS-AB1	1.00	18:55				X	X		X	X				X						X	X					
CCV1	1.00	18:58				X	X		X	X				X						X	X					
CCB1	1.00	19:02				X	X		X	X				X						X	X					
PBS	1.00	19:05				X	X		X	X				X						X	X					
LCSS	1.00	19:08				X	X		X	X				X						X	X					
TB-01 (3.0)	1.00	19:12				X	X		X	X				X						X	X					
TB-02 (8.0)	1.00	19:15				X	X		X	X				X						X	X					
TB-04 (2.5)	1.00	19:18				X	X		X	X				X						X	X					
TB-14 (7.0)	1.00	19:22				X	X		X	X				X						X	X					
TB-24 (2.5)	1.00	19:25				X	X		X	X				X						X	X					
TB-24 (2.5)S	1.00	19:29				X	X		X	X				X						X	X					
TB-24 (2.5)SD	1.00	19:32				X	X		X	X				X						X	X					
TB-24 (2.5)A	1.00	19:35				X	X		X	X				X						X	X					
CCV2	1.00	19:39				X	X		X	X				X						X	X					
CCB2	1.00	19:42				X	X		X	X				X						X	X					
TB-24 (2.5)L	5.00	19:45				X	X		X	X				X						X	X					
ZZZZZZ	1.00	19:49																								
ZZZZZZ	1.00	19:52																								
ZZZZZZ	1.00	19:55																								
ZZZZZZ	1.00	19:59																								
ZZZZZZ	1.00	20:02																								
ZZZZZZ	1.00	20:05																								
ZZZZZZ	1.00	20:09																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TB-01 (3.0)

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/21/2018 End Date: 2/21/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
ZZZZZZ	5.00	20:12																								
CCV3	1.00	20:15				X	X		X	X				X						X	X					
CCB3	1.00	20:19				X	X		X	X				X						X	X					
CRDL2	1.00	20:22				X	X		X	X				X						X	X					
ICS-A2	1.00	20:25				X	X		X	X				X						X	X					
ICS-AB2	1.00	20:29				X	X		X	X				X						X	X					
ZZZZZZ	1.00	20:32																								
ZZZZZZ	1.00	20:36																								
ZZZZZZ	1.00	20:39																								
CCV4	1.00	20:42				X	X		X	X				X						X	X					
CCB4	1.00	20:46				X	X		X	X				X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14





## General Chemistry

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ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18  
**Date Received:** 02/14/18  
**Date Analyzed:** 02/20/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1801334-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	-	82.8	84.9	83.9	3	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18  
**Date Received:** 02/14/18  
**Date Analyzed:** 02/20/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1801334-014DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	-	88.7	86.9	87.8	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.





## Raw Data

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## Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.74	.91	02/16/18 12:38	
1,1,2,2-Tetrachloroethane	<b>1.2 J</b>	5.0	0.82	.91	02/16/18 12:38	
1,1,2-Trichloroethane	5.0 U	5.0	0.74	.91	02/16/18 12:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.63	.91	02/16/18 12:38	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.60	.91	02/16/18 12:38	
1,2,4-Trimethylbenzene	<b>2.1 J</b>	5.0	0.55	.91	02/16/18 12:38	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.9	.91	02/16/18 12:38	
1,2-Dibromoethane	5.0 U	5.0	1.3	.91	02/16/18 12:38	
1,2-Dichlorobenzene	5.0 U	5.0	0.62	.91	02/16/18 12:38	
1,2-Dichloroethane	5.0 U	5.0	0.62	.91	02/16/18 12:38	
1,2-Dichloropropane	5.0 U	5.0	0.98	.91	02/16/18 12:38	
1,3,5-Trimethylbenzene	<b>1.2 J</b>	5.0	0.80	.91	02/16/18 12:38	
1,3-Dichlorobenzene	5.0 U	5.0	0.64	.91	02/16/18 12:38	
1,4-Dichlorobenzene	5.0 U	5.0	0.57	.91	02/16/18 12:38	
1,4-Dioxane	100 U	100	20	.91	02/16/18 12:38	
2-Butanone (MEK)	<b>5.2</b>	5.0	2.4	.91	02/16/18 12:38	
2-Hexanone	5.0 U	5.0	1.3	.91	02/16/18 12:38	
4-Isopropyltoluene	5.0 U	5.0	0.88	.91	02/16/18 12:38	
4-Methyl-2-pentanone	5.0 U	5.0	0.99	.91	02/16/18 12:38	
Acetone	<b>38</b>	5.0	2.9	.91	02/16/18 12:38	
Benzene	<b>1.1 J</b>	5.0	0.30	.91	02/16/18 12:38	
Bromochloromethane	5.0 U	5.0	1.4	.91	02/16/18 12:38	
Bromodichloromethane	5.0 U	5.0	0.62	.91	02/16/18 12:38	
Bromoform	5.0 U	5.0	0.94	.91	02/16/18 12:38	
Bromomethane	5.0 U	5.0	1.4	.91	02/16/18 12:38	
Carbon Disulfide	5.0 U	5.0	1.3	.91	02/16/18 12:38	
Carbon Tetrachloride	5.0 U	5.0	0.93	.91	02/16/18 12:38	
Chlorobenzene	5.0 U	5.0	0.30	.91	02/16/18 12:38	
Chloroethane	5.0 U	5.0	2.9	.91	02/16/18 12:38	
Chloroform	5.0 U	5.0	1.3	.91	02/16/18 12:38	
Chloromethane	5.0 U	5.0	0.41	.91	02/16/18 12:38	
Cyclohexane	<b>20</b>	5.0	1.4	.91	02/16/18 12:38	
Dibromochloromethane	5.0 U	5.0	0.74	.91	02/16/18 12:38	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1.9	.91	02/16/18 12:38	
Dichloromethane	<b>0.62 J</b>	5.0	0.58	.91	02/16/18 12:38	
Ethylbenzene	<b>1.3 J</b>	5.0	0.24	.91	02/16/18 12:38	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.68	.91	02/16/18 12:38	
Methyl Acetate	5.0 U	5.0	1.8	.91	02/16/18 12:38	
Methyl tert-Butyl Ether	5.0 U	5.0	0.95	.91	02/16/18 12:38	
Methylcyclohexane	<b>3.2 J</b>	5.0	1.3	.91	02/16/18 12:38	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.0 U	5.0	0.31	.91	02/16/18 12:38	
Tetrachloroethene (PCE)	5.0 U	5.0	0.89	.91	02/16/18 12:38	
Toluene	<b>2.3 J</b>	5.0	1.1	.91	02/16/18 12:38	
Trichloroethene (TCE)	5.0 U	5.0	1.1	.91	02/16/18 12:38	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.67	.91	02/16/18 12:38	
Vinyl Chloride	5.0 U	5.0	1.9	.91	02/16/18 12:38	
cis-1,2-Dichloroethene	5.0 U	5.0	0.96	.91	02/16/18 12:38	
cis-1,3-Dichloropropene	5.0 U	5.0	0.91	.91	02/16/18 12:38	
m,p-Xylenes	<b>2.1 J</b>	10	1.1	.91	02/16/18 12:38	
n-Butylbenzene	<b>1.0 J</b>	5.0	0.99	.91	02/16/18 12:38	
n-Propylbenzene	<b>1.1 J</b>	5.0	0.79	.91	02/16/18 12:38	
o-Xylene	<b>0.90 J</b>	5.0	0.49	.91	02/16/18 12:38	
sec-Butylbenzene	5.0 U	5.0	0.73	.91	02/16/18 12:38	
tert-Butylbenzene	5.0 U	5.0	0.59	.91	02/16/18 12:38	
trans-1,2-Dichloroethene	5.0 U	5.0	0.87	.91	02/16/18 12:38	
trans-1,3-Dichloropropene	5.0 U	5.0	0.21	.91	02/16/18 12:38	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	81	51 - 136	02/16/18 12:38	
Dibromofluoromethane	99	63 - 138	02/16/18 12:38	
Toluene-d8	102	66 - 138	02/16/18 12:38	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.5 U	5.5	0.80	.73	02/16/18 16:52	
1,1,2,2-Tetrachloroethane	<b>1.1 J</b>	5.5	0.89	.73	02/16/18 16:52	
1,1,2-Trichloroethane	5.5 U	5.5	0.80	.73	02/16/18 16:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,1-Dichloroethane (1,1-DCA)	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,1-Dichloroethene (1,1-DCE)	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,2,3-Trichlorobenzene	5.5 U	5.5	0.68	.73	02/16/18 16:52	
1,2,4-Trichlorobenzene	5.5 U	5.5	0.65	.73	02/16/18 16:52	
1,2,4-Trimethylbenzene	<b>8.2</b>	5.5	0.59	.73	02/16/18 16:52	
1,2-Dibromo-3-chloropropane (DBCP)	5.5 U	5.5	2.1	.73	02/16/18 16:52	
1,2-Dibromoethane	5.5 U	5.5	1.4	.73	02/16/18 16:52	
1,2-Dichlorobenzene	5.5 U	5.5	0.67	.73	02/16/18 16:52	
1,2-Dichloroethane	5.5 U	5.5	0.67	.73	02/16/18 16:52	
1,2-Dichloropropane	5.5 U	5.5	1.1	.73	02/16/18 16:52	
1,3,5-Trimethylbenzene	<b>2.5 J</b>	5.5	0.87	.73	02/16/18 16:52	
1,3-Dichlorobenzene	5.5 U	5.5	0.69	.73	02/16/18 16:52	
1,4-Dichlorobenzene	5.5 U	5.5	0.62	.73	02/16/18 16:52	
1,4-Dioxane	110 U	110	21	.73	02/16/18 16:52	
2-Butanone (MEK)	<b>10</b>	5.5	2.5	.73	02/16/18 16:52	
2-Hexanone	5.5 U	5.5	1.4	.73	02/16/18 16:52	
4-Isopropyltoluene	<b>0.99 J</b>	5.5	0.95	.73	02/16/18 16:52	
4-Methyl-2-pentanone	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Acetone	<b>68</b>	5.5	3.1	.73	02/16/18 16:52	
Benzene	<b>0.32 J</b>	5.5	0.32	.73	02/16/18 16:52	
Bromochloromethane	5.5 U	5.5	1.5	.73	02/16/18 16:52	
Bromodichloromethane	5.5 U	5.5	0.67	.73	02/16/18 16:52	
Bromoform	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Bromomethane	5.5 U	5.5	1.6	.73	02/16/18 16:52	
Carbon Disulfide	<b>15</b>	5.5	1.4	.73	02/16/18 16:52	
Carbon Tetrachloride	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Chlorobenzene	5.5 U	5.5	0.32	.73	02/16/18 16:52	
Chloroethane	5.5 U	5.5	3.2	.73	02/16/18 16:52	
Chloroform	5.5 U	5.5	1.4	.73	02/16/18 16:52	
Chloromethane	5.5 U	5.5	0.44	.73	02/16/18 16:52	
Cyclohexane	5.5 U	5.5	1.6	.73	02/16/18 16:52	
Dibromochloromethane	5.5 U	5.5	0.80	.73	02/16/18 16:52	
Dichlorodifluoromethane (CFC 12)	5.5 U	5.5	2.1	.73	02/16/18 16:52	
Dichloromethane	5.5 U	5.5	0.63	.73	02/16/18 16:52	
Ethylbenzene	5.5 U	5.5	0.26	.73	02/16/18 16:52	
Isopropylbenzene (Cumene)	5.5 U	5.5	0.74	.73	02/16/18 16:52	
Methyl Acetate	5.5 U	5.5	2.0	.73	02/16/18 16:52	
Methyl tert-Butyl Ether	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Methylcyclohexane	<b>1.7 J</b>	5.5	1.4	.73	02/16/18 16:52	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.5 U	5.5	0.33	.73	02/16/18 16:52	
Tetrachloroethene (PCE)	5.5 U	5.5	0.97	.73	02/16/18 16:52	
Toluene	5.5 U	5.5	1.1	.73	02/16/18 16:52	
Trichloroethene (TCE)	5.5 U	5.5	1.2	.73	02/16/18 16:52	
Trichlorofluoromethane (CFC 11)	5.5 U	5.5	0.73	.73	02/16/18 16:52	
Vinyl Chloride	5.5 U	5.5	2.1	.73	02/16/18 16:52	
cis-1,2-Dichloroethene	5.5 U	5.5	1.1	.73	02/16/18 16:52	
cis-1,3-Dichloropropene	5.5 U	5.5	0.99	.73	02/16/18 16:52	
m,p-Xylenes	11 U	11	1.2	.73	02/16/18 16:52	
n-Butylbenzene	<b>2.4 J</b>	5.5	1.1	.73	02/16/18 16:52	
n-Propylbenzene	5.5 U	5.5	0.86	.73	02/16/18 16:52	
o-Xylene	5.5 U	5.5	0.53	.73	02/16/18 16:52	
sec-Butylbenzene	5.5 U	5.5	0.79	.73	02/16/18 16:52	
tert-Butylbenzene	5.5 U	5.5	0.64	.73	02/16/18 16:52	
trans-1,2-Dichloroethene	5.5 U	5.5	0.94	.73	02/16/18 16:52	
trans-1,3-Dichloropropene	5.5 U	5.5	0.22	.73	02/16/18 16:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	51 - 136	02/16/18 16:52	
Dibromofluoromethane	67	63 - 138	02/16/18 16:52	
Toluene-d8	100	66 - 138	02/16/18 16:52	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.8 U	6.8	1.0	.91	02/16/18 13:01	
1,1,2,2-Tetrachloroethane	6.8 U	6.8	1.2	.91	02/16/18 13:01	
1,1,2-Trichloroethane	6.8 U	6.8	1.0	.91	02/16/18 13:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.8 U	6.8	1.7	.91	02/16/18 13:01	
1,1-Dichloroethane (1,1-DCA)	6.8 U	6.8	1.8	.91	02/16/18 13:01	
1,1-Dichloroethene (1,1-DCE)	6.8 U	6.8	1.8	.91	02/16/18 13:01	
1,2,3-Trichlorobenzene	6.8 U	6.8	0.85	.91	02/16/18 13:01	
1,2,4-Trichlorobenzene	6.8 U	6.8	0.81	.91	02/16/18 13:01	
1,2,4-Trimethylbenzene	<b>0.78 J</b>	6.8	0.74	.91	02/16/18 13:01	
1,2-Dibromo-3-chloropropane (DBCP)	6.8 U	6.8	2.6	.91	02/16/18 13:01	
1,2-Dibromoethane	6.8 U	6.8	1.7	.91	02/16/18 13:01	
1,2-Dichlorobenzene	6.8 U	6.8	0.83	.91	02/16/18 13:01	
1,2-Dichloroethane	6.8 U	6.8	0.83	.91	02/16/18 13:01	
1,2-Dichloropropane	6.8 U	6.8	1.4	.91	02/16/18 13:01	
1,3,5-Trimethylbenzene	6.8 U	6.8	1.1	.91	02/16/18 13:01	
1,3-Dichlorobenzene	6.8 U	6.8	0.86	.91	02/16/18 13:01	
1,4-Dichlorobenzene	6.8 U	6.8	0.77	.91	02/16/18 13:01	
1,4-Dioxane	140 U	140	27	.91	02/16/18 13:01	
2-Butanone (MEK)	<b>6.6 J</b>	6.8	3.2	.91	02/16/18 13:01	
2-Hexanone	6.8 U	6.8	1.7	.91	02/16/18 13:01	
4-Isopropyltoluene	6.8 U	6.8	1.2	.91	02/16/18 13:01	
4-Methyl-2-pentanone	6.8 U	6.8	1.4	.91	02/16/18 13:01	
Acetone	<b>58</b>	6.8	3.9	.91	02/16/18 13:01	
Benzene	6.8 U	6.8	0.40	.91	02/16/18 13:01	
Bromochloromethane	6.8 U	6.8	1.9	.91	02/16/18 13:01	
Bromodichloromethane	6.8 U	6.8	0.83	.91	02/16/18 13:01	
Bromoform	6.8 U	6.8	1.3	.91	02/16/18 13:01	
Bromomethane	6.8 U	6.8	1.9	.91	02/16/18 13:01	
Carbon Disulfide	<b>11</b>	6.8	1.7	.91	02/16/18 13:01	
Carbon Tetrachloride	6.8 U	6.8	1.3	.91	02/16/18 13:01	
Chlorobenzene	6.8 U	6.8	0.40	.91	02/16/18 13:01	
Chloroethane	6.8 U	6.8	4.0	.91	02/16/18 13:01	
Chloroform	6.8 U	6.8	1.8	.91	02/16/18 13:01	
Chloromethane	6.8 U	6.8	0.55	.91	02/16/18 13:01	
Cyclohexane	6.8 U	6.8	1.9	.91	02/16/18 13:01	
Dibromochloromethane	6.8 U	6.8	1.0	.91	02/16/18 13:01	
Dichlorodifluoromethane (CFC 12)	6.8 U	6.8	2.6	.91	02/16/18 13:01	
Dichloromethane	6.8 U	6.8	0.78	.91	02/16/18 13:01	
Ethylbenzene	6.8 U	6.8	0.32	.91	02/16/18 13:01	
Isopropylbenzene (Cumene)	6.8 U	6.8	0.92	.91	02/16/18 13:01	
Methyl Acetate	6.8 U	6.8	2.4	.91	02/16/18 13:01	
Methyl tert-Butyl Ether	6.8 U	6.8	1.3	.91	02/16/18 13:01	
Methylcyclohexane	<b>1.8 J</b>	6.8	1.7	.91	02/16/18 13:01	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	6.8 U	6.8	0.41	.91	02/16/18 13:01	
Tetrachloroethene (PCE)	6.8 U	6.8	1.2	.91	02/16/18 13:01	
Toluene	6.8 U	6.8	1.4	.91	02/16/18 13:01	
Trichloroethene (TCE)	6.8 U	6.8	1.4	.91	02/16/18 13:01	
Trichlorofluoromethane (CFC 11)	6.8 U	6.8	0.90	.91	02/16/18 13:01	
Vinyl Chloride	6.8 U	6.8	2.6	.91	02/16/18 13:01	
cis-1,2-Dichloroethene	6.8 U	6.8	1.3	.91	02/16/18 13:01	
cis-1,3-Dichloropropene	6.8 U	6.8	1.3	.91	02/16/18 13:01	
m,p-Xylenes	14 U	14	1.5	.91	02/16/18 13:01	
n-Butylbenzene	6.8 U	6.8	1.4	.91	02/16/18 13:01	
n-Propylbenzene	6.8 U	6.8	1.1	.91	02/16/18 13:01	
o-Xylene	6.8 U	6.8	0.66	.91	02/16/18 13:01	
sec-Butylbenzene	6.8 U	6.8	0.98	.91	02/16/18 13:01	
tert-Butylbenzene	6.8 U	6.8	0.79	.91	02/16/18 13:01	
trans-1,2-Dichloroethene	6.8 U	6.8	1.2	.91	02/16/18 13:01	
trans-1,3-Dichloropropene	6.8 U	6.8	0.28	.91	02/16/18 13:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	02/16/18 13:01	
Dibromofluoromethane	50 *	63 - 138	02/16/18 13:01	*
Toluene-d8	103	66 - 138	02/16/18 13:01	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 14:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.6 U	4.6	0.68	.73	02/16/18 13:24	
1,1,2,2-Tetrachloroethane	4.6 U	4.6	0.75	.73	02/16/18 13:24	
1,1,2-Trichloroethane	4.6 U	4.6	0.68	.73	02/16/18 13:24	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,1-Dichloroethane (1,1-DCA)	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,1-Dichloroethene (1,1-DCE)	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,2,3-Trichlorobenzene	4.6 U	4.6	0.58	.73	02/16/18 13:24	
1,2,4-Trichlorobenzene	4.6 U	4.6	0.55	.73	02/16/18 13:24	
1,2,4-Trimethylbenzene	4.6 U	4.6	0.50	.73	02/16/18 13:24	
1,2-Dibromo-3-chloropropane (DBCP)	4.6 U	4.6	1.8	.73	02/16/18 13:24	
1,2-Dibromoethane	4.6 U	4.6	1.2	.73	02/16/18 13:24	
1,2-Dichlorobenzene	4.6 U	4.6	0.57	.73	02/16/18 13:24	
1,2-Dichloroethane	4.6 U	4.6	0.57	.73	02/16/18 13:24	
1,2-Dichloropropane	4.6 U	4.6	0.90	.73	02/16/18 13:24	
1,3,5-Trimethylbenzene	4.6 U	4.6	0.73	.73	02/16/18 13:24	
1,3-Dichlorobenzene	4.6 U	4.6	0.59	.73	02/16/18 13:24	
1,4-Dichlorobenzene	4.6 U	4.6	0.52	.73	02/16/18 13:24	
1,4-Dioxane	92 U	92	18	.73	02/16/18 13:24	
2-Butanone (MEK)	<b>12</b>	4.6	2.2	.73	02/16/18 13:24	
2-Hexanone	4.6 U	4.6	1.2	.73	02/16/18 13:24	
4-Isopropyltoluene	4.6 U	4.6	0.81	.73	02/16/18 13:24	
4-Methyl-2-pentanone	4.6 U	4.6	0.91	.73	02/16/18 13:24	
Acetone	<b>40</b>	4.6	2.6	.73	02/16/18 13:24	
Benzene	<b>0.30 J</b>	4.6	0.27	.73	02/16/18 13:24	
Bromochloromethane	4.6 U	4.6	1.3	.73	02/16/18 13:24	
Bromodichloromethane	4.6 U	4.6	0.57	.73	02/16/18 13:24	
Bromoform	4.6 U	4.6	0.86	.73	02/16/18 13:24	
Bromomethane	4.6 U	4.6	1.3	.73	02/16/18 13:24	
Carbon Disulfide	4.6 U	4.6	1.2	.73	02/16/18 13:24	
Carbon Tetrachloride	4.6 U	4.6	0.85	.73	02/16/18 13:24	
Chlorobenzene	4.6 U	4.6	0.27	.73	02/16/18 13:24	
Chloroethane	4.6 U	4.6	2.7	.73	02/16/18 13:24	
Chloroform	4.6 U	4.6	1.2	.73	02/16/18 13:24	
Chloromethane	4.6 U	4.6	0.37	.73	02/16/18 13:24	
Cyclohexane	4.6 U	4.6	1.3	.73	02/16/18 13:24	
Dibromochloromethane	4.6 U	4.6	0.68	.73	02/16/18 13:24	
Dichlorodifluoromethane (CFC 12)	4.6 U	4.6	1.8	.73	02/16/18 13:24	
Dichloromethane	<b>0.61 J</b>	4.6	0.53	.73	02/16/18 13:24	
Ethylbenzene	4.6 U	4.6	0.22	.73	02/16/18 13:24	
Isopropylbenzene (Cumene)	4.6 U	4.6	0.62	.73	02/16/18 13:24	
Methyl Acetate	4.6 U	4.6	1.7	.73	02/16/18 13:24	
Methyl tert-Butyl Ether	4.6 U	4.6	0.87	.73	02/16/18 13:24	
Methylcyclohexane	4.6 U	4.6	1.2	.73	02/16/18 13:24	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 14:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.6 U	4.6	0.28	.73	02/16/18 13:24	
Tetrachloroethene (PCE)	4.6 U	4.6	0.82	.73	02/16/18 13:24	
Toluene	4.6 U	4.6	0.93	.73	02/16/18 13:24	
Trichloroethene (TCE)	4.6 U	4.6	0.94	.73	02/16/18 13:24	
Trichlorofluoromethane (CFC 11)	4.6 U	4.6	0.61	.73	02/16/18 13:24	
Vinyl Chloride	4.6 U	4.6	1.7	.73	02/16/18 13:24	
cis-1,2-Dichloroethene	4.6 U	4.6	0.88	.73	02/16/18 13:24	
cis-1,3-Dichloropropene	4.6 U	4.6	0.83	.73	02/16/18 13:24	
m,p-Xylenes	9.2 U	9.2	1.1	.73	02/16/18 13:24	
n-Butylbenzene	4.6 U	4.6	0.91	.73	02/16/18 13:24	
n-Propylbenzene	4.6 U	4.6	0.72	.73	02/16/18 13:24	
o-Xylene	4.6 U	4.6	0.45	.73	02/16/18 13:24	
sec-Butylbenzene	4.6 U	4.6	0.67	.73	02/16/18 13:24	
tert-Butylbenzene	4.6 U	4.6	0.54	.73	02/16/18 13:24	
trans-1,2-Dichloroethene	4.6 U	4.6	0.80	.73	02/16/18 13:24	
trans-1,3-Dichloropropene	4.6 U	4.6	0.19	.73	02/16/18 13:24	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	51 - 136	02/16/18 13:24	
Dibromofluoromethane	101	63 - 138	02/16/18 13:24	
Toluene-d8	101	66 - 138	02/16/18 13:24	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 15:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.57	.66	02/16/18 13:47	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.63	.66	02/16/18 13:47	
1,1,2-Trichloroethane	3.8 U	3.8	0.57	.66	02/16/18 13:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.96	.66	02/16/18 13:47	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.96	.66	02/16/18 13:47	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.99	.66	02/16/18 13:47	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.48	.66	02/16/18 13:47	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.46	.66	02/16/18 13:47	
1,2,4-Trimethylbenzene	3.8 U	3.8	0.42	.66	02/16/18 13:47	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.66	02/16/18 13:47	
1,2-Dibromoethane	3.8 U	3.8	0.93	.66	02/16/18 13:47	
1,2-Dichlorobenzene	3.8 U	3.8	0.47	.66	02/16/18 13:47	
1,2-Dichloroethane	3.8 U	3.8	0.47	.66	02/16/18 13:47	
1,2-Dichloropropane	3.8 U	3.8	0.75	.66	02/16/18 13:47	
1,3,5-Trimethylbenzene	3.8 U	3.8	0.61	.66	02/16/18 13:47	
1,3-Dichlorobenzene	3.8 U	3.8	0.49	.66	02/16/18 13:47	
1,4-Dichlorobenzene	3.8 U	3.8	0.43	.66	02/16/18 13:47	
1,4-Dioxane	77 U	77	15	.66	02/16/18 13:47	
2-Butanone (MEK)	3.8 U	3.8	1.8	.66	02/16/18 13:47	
2-Hexanone	3.8 U	3.8	0.93	.66	02/16/18 13:47	
4-Isopropyltoluene	3.8 U	3.8	0.67	.66	02/16/18 13:47	
4-Methyl-2-pentanone	3.8 U	3.8	0.76	.66	02/16/18 13:47	
Acetone	2.3 J	3.8	2.2	.66	02/16/18 13:47	
Benzene	3.8 U	3.8	0.23	.66	02/16/18 13:47	
Bromochloromethane	3.8 U	3.8	1.1	.66	02/16/18 13:47	
Bromodichloromethane	3.8 U	3.8	0.47	.66	02/16/18 13:47	
Bromoform	3.8 U	3.8	0.72	.66	02/16/18 13:47	
Bromomethane	3.8 U	3.8	1.1	.66	02/16/18 13:47	
Carbon Disulfide	3.8 U	3.8	0.96	.66	02/16/18 13:47	
Carbon Tetrachloride	3.8 U	3.8	0.71	.66	02/16/18 13:47	
Chlorobenzene	3.8 U	3.8	0.23	.66	02/16/18 13:47	
Chloroethane	3.8 U	3.8	2.3	.66	02/16/18 13:47	
Chloroform	3.8 U	3.8	0.97	.66	02/16/18 13:47	
Chloromethane	3.8 U	3.8	0.31	.66	02/16/18 13:47	
Cyclohexane	3.8 U	3.8	1.1	.66	02/16/18 13:47	
Dibromochloromethane	3.8 U	3.8	0.57	.66	02/16/18 13:47	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.66	02/16/18 13:47	
Dichloromethane	3.8 U	3.8	0.44	.66	02/16/18 13:47	
Ethylbenzene	3.8 U	3.8	0.18	.66	02/16/18 13:47	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.52	.66	02/16/18 13:47	
Methyl Acetate	3.8 U	3.8	1.4	.66	02/16/18 13:47	
Methyl tert-Butyl Ether	3.8 U	3.8	0.73	.66	02/16/18 13:47	
Methylcyclohexane	3.8 U	3.8	0.93	.66	02/16/18 13:47	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 15:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.24	.66	02/16/18 13:47	
Tetrachloroethene (PCE)	3.8 U	3.8	0.68	.66	02/16/18 13:47	
Toluene	3.8 U	3.8	0.77	.66	02/16/18 13:47	
Trichloroethene (TCE)	3.8 U	3.8	0.78	.66	02/16/18 13:47	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.51	.66	02/16/18 13:47	
Vinyl Chloride	3.8 U	3.8	1.5	.66	02/16/18 13:47	
cis-1,2-Dichloroethene	3.8 U	3.8	0.73	.66	02/16/18 13:47	
cis-1,3-Dichloropropene	3.8 U	3.8	0.70	.66	02/16/18 13:47	
m,p-Xylenes	7.7 U	7.7	0.84	.66	02/16/18 13:47	
n-Butylbenzene	3.8 U	3.8	0.76	.66	02/16/18 13:47	
n-Propylbenzene	3.8 U	3.8	0.60	.66	02/16/18 13:47	
o-Xylene	3.8 U	3.8	0.37	.66	02/16/18 13:47	
sec-Butylbenzene	3.8 U	3.8	0.56	.66	02/16/18 13:47	
tert-Butylbenzene	3.8 U	3.8	0.45	.66	02/16/18 13:47	
trans-1,2-Dichloroethene	3.8 U	3.8	0.66	.66	02/16/18 13:47	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.66	02/16/18 13:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	51 - 136	02/16/18 13:47	
Dibromofluoromethane	96	63 - 138	02/16/18 13:47	
Toluene-d8	102	66 - 138	02/16/18 13:47	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1400 U	1400	210	222	02/20/18 19:34	
1,1,2,2-Tetrachloroethane	1400 U	1400	240	222	02/20/18 19:34	
1,1,2-Trichloroethane	1400 U	1400	210	222	02/20/18 19:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1400 U	1400	360	222	02/20/18 19:34	
1,1-Dichloroethane (1,1-DCA)	1400 U	1400	360	222	02/20/18 19:34	
1,1-Dichloroethene (1,1-DCE)	1400 U	1400	370	222	02/20/18 19:34	
1,2,3-Trichlorobenzene	1400 U	1400	180	222	02/20/18 19:34	
1,2,4-Trichlorobenzene	1400 U	1400	170	222	02/20/18 19:34	
1,2,4-Trimethylbenzene	<b>27000</b>	1400	160	222	02/20/18 19:34	
1,2-Dibromo-3-chloropropane (DBCP)	1400 U	1400	540	222	02/20/18 19:34	
1,2-Dibromoethane	1400 U	1400	350	222	02/20/18 19:34	
1,2-Dichlorobenzene	1400 U	1400	180	222	02/20/18 19:34	
1,2-Dichloroethane	1400 U	1400	180	222	02/20/18 19:34	
1,2-Dichloropropane	1400 U	1400	280	222	02/20/18 19:34	
1,3,5-Trimethylbenzene	<b>8100</b>	1400	230	222	02/20/18 19:34	
1,3-Dichlorobenzene	1400 U	1400	180	222	02/20/18 19:34	
1,4-Dichlorobenzene	1400 U	1400	160	222	02/20/18 19:34	
1,4-Dioxane	28000 U	28000	5500	222	02/20/18 19:34	
2-Butanone (MEK)	1400 U	1400	660	222	02/20/18 19:34	
2-Hexanone	1400 U	1400	350	222	02/20/18 19:34	
4-Isopropyltoluene	<b>3700</b>	1400	250	222	02/20/18 19:34	
4-Methyl-2-pentanone	1400 U	1400	280	222	02/20/18 19:34	
Acetone	1400 U	1400	800	222	02/20/18 19:34	
Benzene	1400 U	1400	83	222	02/20/18 19:34	
Bromochloromethane	1400 U	1400	390	222	02/20/18 19:34	
Bromodichloromethane	1400 U	1400	180	222	02/20/18 19:34	
Bromoform	1400 U	1400	270	222	02/20/18 19:34	
Bromomethane	1400 U	1400	400	222	02/20/18 19:34	
Carbon Disulfide	1400 U	1400	360	222	02/20/18 19:34	
Carbon Tetrachloride	1400 U	1400	270	222	02/20/18 19:34	
Chlorobenzene	1400 U	1400	83	222	02/20/18 19:34	
Chloroethane	1400 U	1400	820	222	02/20/18 19:34	
Chloroform	1400 U	1400	360	222	02/20/18 19:34	
Chloromethane	1400 U	1400	120	222	02/20/18 19:34	
Cyclohexane	<b>1300 J</b>	1400	400	222	02/20/18 19:34	
Dibromochloromethane	1400 U	1400	210	222	02/20/18 19:34	
Dichlorodifluoromethane (CFC 12)	1400 U	1400	540	222	02/20/18 19:34	
Dichloromethane	1400 U	1400	170	222	02/20/18 19:34	
Ethylbenzene	<b>720 J</b>	1400	66	222	02/20/18 19:34	
Isopropylbenzene (Cumene)	<b>1100 J</b>	1400	200	222	02/20/18 19:34	
Methyl Acetate	1400 U	1400	500	222	02/20/18 19:34	
Methyl tert-Butyl Ether	1400 U	1400	270	222	02/20/18 19:34	
Methylcyclohexane	<b>5200</b>	1400	350	222	02/20/18 19:34	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	1400 U	1400	86	222	02/20/18 19:34	
Tetrachloroethene (PCE)	1400 U	1400	260	222	02/20/18 19:34	
Toluene	1400 U	1400	290	222	02/20/18 19:34	
Trichloroethene (TCE)	1400 U	1400	290	222	02/20/18 19:34	
Trichlorofluoromethane (CFC 11)	1400 U	1400	190	222	02/20/18 19:34	
Vinyl Chloride	1400 U	1400	530	222	02/20/18 19:34	
cis-1,2-Dichloroethene	1400 U	1400	280	222	02/20/18 19:34	
cis-1,3-Dichloropropene	1400 U	1400	260	222	02/20/18 19:34	
m,p-Xylenes	<b>2900</b>	2800	320	222	02/20/18 19:34	
n-Butylbenzene	<b>7500</b>	1400	280	222	02/20/18 19:34	
n-Propylbenzene	<b>2400</b>	1400	230	222	02/20/18 19:34	
o-Xylene	<b>220 J</b>	1400	140	222	02/20/18 19:34	
sec-Butylbenzene	<b>3400</b>	1400	210	222	02/20/18 19:34	
tert-Butylbenzene	<b>760 J</b>	1400	170	222	02/20/18 19:34	
trans-1,2-Dichloroethene	1400 U	1400	250	222	02/20/18 19:34	
trans-1,3-Dichloropropene	1400 U	1400	57	222	02/20/18 19:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	51 - 136	02/20/18 19:34	
Dibromofluoromethane	93	63 - 138	02/20/18 19:34	
Toluene-d8	102	66 - 138	02/20/18 19:34	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 09:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.9 U	4.9	0.72	.82	02/16/18 14:10	
1,1,2,2-Tetrachloroethane	4.9 U	4.9	0.80	.82	02/16/18 14:10	
1,1,2-Trichloroethane	4.9 U	4.9	0.72	.82	02/16/18 14:10	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.9 U	4.9	1.3	.82	02/16/18 14:10	
1,1-Dichloroethane (1,1-DCA)	4.9 U	4.9	1.3	.82	02/16/18 14:10	
1,1-Dichloroethene (1,1-DCE)	4.9 U	4.9	1.3	.82	02/16/18 14:10	
1,2,3-Trichlorobenzene	4.9 U	4.9	0.61	.82	02/16/18 14:10	
1,2,4-Trichlorobenzene	4.9 U	4.9	0.59	.82	02/16/18 14:10	
1,2,4-Trimethylbenzene	4.9 U	4.9	0.54	.82	02/16/18 14:10	
1,2-Dibromo-3-chloropropane (DBCP)	4.9 U	4.9	1.9	.82	02/16/18 14:10	
1,2-Dibromoethane	4.9 U	4.9	1.2	.82	02/16/18 14:10	
1,2-Dichlorobenzene	4.9 U	4.9	0.60	.82	02/16/18 14:10	
1,2-Dichloroethane	4.9 U	4.9	0.60	.82	02/16/18 14:10	
1,2-Dichloropropane	4.9 U	4.9	0.96	.82	02/16/18 14:10	
1,3,5-Trimethylbenzene	4.9 U	4.9	0.78	.82	02/16/18 14:10	
1,3-Dichlorobenzene	4.9 U	4.9	0.62	.82	02/16/18 14:10	
1,4-Dichlorobenzene	4.9 U	4.9	0.56	.82	02/16/18 14:10	
1,4-Dioxane	98 U	98	19	.82	02/16/18 14:10	
2-Butanone (MEK)	4.9 U	4.9	2.3	.82	02/16/18 14:10	
2-Hexanone	4.9 U	4.9	1.2	.82	02/16/18 14:10	
4-Isopropyltoluene	4.9 U	4.9	0.86	.82	02/16/18 14:10	
4-Methyl-2-pentanone	4.9 U	4.9	0.97	.82	02/16/18 14:10	
Acetone	24	4.9	2.8	.82	02/16/18 14:10	
Benzene	4.9 U	4.9	0.29	.82	02/16/18 14:10	
Bromochloromethane	4.9 U	4.9	1.4	.82	02/16/18 14:10	
Bromodichloromethane	4.9 U	4.9	0.60	.82	02/16/18 14:10	
Bromoform	4.9 U	4.9	0.92	.82	02/16/18 14:10	
Bromomethane	4.9 U	4.9	1.4	.82	02/16/18 14:10	
Carbon Disulfide	4.9 U	4.9	1.3	.82	02/16/18 14:10	
Carbon Tetrachloride	4.9 U	4.9	0.91	.82	02/16/18 14:10	
Chlorobenzene	4.9 U	4.9	0.29	.82	02/16/18 14:10	
Chloroethane	4.9 U	4.9	2.9	.82	02/16/18 14:10	
Chloroform	4.9 U	4.9	1.3	.82	02/16/18 14:10	
Chloromethane	4.9 U	4.9	0.40	.82	02/16/18 14:10	
Cyclohexane	4.9 U	4.9	1.4	.82	02/16/18 14:10	
Dibromochloromethane	4.9 U	4.9	0.72	.82	02/16/18 14:10	
Dichlorodifluoromethane (CFC 12)	4.9 U	4.9	1.9	.82	02/16/18 14:10	
Dichloromethane	4.9 U	4.9	0.57	.82	02/16/18 14:10	
Ethylbenzene	4.9 U	4.9	0.23	.82	02/16/18 14:10	
Isopropylbenzene (Cumene)	4.9 U	4.9	0.66	.82	02/16/18 14:10	
Methyl Acetate	4.9 U	4.9	1.8	.82	02/16/18 14:10	
Methyl tert-Butyl Ether	4.9 U	4.9	0.93	.82	02/16/18 14:10	
Methylcyclohexane	4.9 U	4.9	1.2	.82	02/16/18 14:10	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 09:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.9 U	4.9	0.30	.82	02/16/18 14:10	
Tetrachloroethene (PCE)	4.9 U	4.9	0.87	.82	02/16/18 14:10	
Toluene	4.9 U	4.9	0.99	.82	02/16/18 14:10	
Trichloroethene (TCE)	4.9 U	4.9	1.0	.82	02/16/18 14:10	
Trichlorofluoromethane (CFC 11)	4.9 U	4.9	0.65	.82	02/16/18 14:10	
Vinyl Chloride	4.9 U	4.9	1.9	.82	02/16/18 14:10	
cis-1,2-Dichloroethene	4.9 U	4.9	0.94	.82	02/16/18 14:10	
cis-1,3-Dichloropropene	4.9 U	4.9	0.89	.82	02/16/18 14:10	
m,p-Xylenes	9.8 U	9.8	1.1	.82	02/16/18 14:10	
n-Butylbenzene	4.9 U	4.9	0.97	.82	02/16/18 14:10	
n-Propylbenzene	4.9 U	4.9	0.77	.82	02/16/18 14:10	
o-Xylene	4.9 U	4.9	0.48	.82	02/16/18 14:10	
sec-Butylbenzene	4.9 U	4.9	0.71	.82	02/16/18 14:10	
tert-Butylbenzene	4.9 U	4.9	0.58	.82	02/16/18 14:10	
trans-1,2-Dichloroethene	4.9 U	4.9	0.85	.82	02/16/18 14:10	
trans-1,3-Dichloropropene	4.9 U	4.9	0.20	.82	02/16/18 14:10	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	51 - 136	02/16/18 14:10	
Dibromofluoromethane	98	63 - 138	02/16/18 14:10	
Toluene-d8	100	66 - 138	02/16/18 14:10	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 12:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.56	.67	02/16/18 14:34	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.62	.67	02/16/18 14:34	
1,1,2-Trichloroethane	3.8 U	3.8	0.56	.67	02/16/18 14:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.95	.67	02/16/18 14:34	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.95	.67	02/16/18 14:34	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.98	.67	02/16/18 14:34	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.48	.67	02/16/18 14:34	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.45	.67	02/16/18 14:34	
1,2,4-Trimethylbenzene	<b>0.66 J</b>	3.8	0.42	.67	02/16/18 14:34	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.67	02/16/18 14:34	
1,2-Dibromoethane	3.8 U	3.8	0.92	.67	02/16/18 14:34	
1,2-Dichlorobenzene	3.8 U	3.8	0.47	.67	02/16/18 14:34	
1,2-Dichloroethane	3.8 U	3.8	0.47	.67	02/16/18 14:34	
1,2-Dichloropropane	3.8 U	3.8	0.74	.67	02/16/18 14:34	
1,3,5-Trimethylbenzene	3.8 U	3.8	0.61	.67	02/16/18 14:34	
1,3-Dichlorobenzene	3.8 U	3.8	0.48	.67	02/16/18 14:34	
1,4-Dichlorobenzene	3.8 U	3.8	0.43	.67	02/16/18 14:34	
1,4-Dioxane	76 U	76	15	.67	02/16/18 14:34	
2-Butanone (MEK)	<b>2.1 J</b>	3.8	1.8	.67	02/16/18 14:34	
2-Hexanone	3.8 U	3.8	0.92	.67	02/16/18 14:34	
4-Isopropyltoluene	3.8 U	3.8	0.67	.67	02/16/18 14:34	
4-Methyl-2-pentanone	3.8 U	3.8	0.75	.67	02/16/18 14:34	
Acetone	<b>9.1</b>	3.8	2.2	.67	02/16/18 14:34	
Benzene	<b>0.45 J</b>	3.8	0.23	.67	02/16/18 14:34	
Bromochloromethane	3.8 U	3.8	1.1	.67	02/16/18 14:34	
Bromodichloromethane	3.8 U	3.8	0.47	.67	02/16/18 14:34	
Bromoform	3.8 U	3.8	0.71	.67	02/16/18 14:34	
Bromomethane	3.8 U	3.8	1.1	.67	02/16/18 14:34	
Carbon Disulfide	3.8 U	3.8	0.95	.67	02/16/18 14:34	
Carbon Tetrachloride	3.8 U	3.8	0.70	.67	02/16/18 14:34	
Chlorobenzene	3.8 U	3.8	0.23	.67	02/16/18 14:34	
Chloroethane	3.8 U	3.8	2.2	.67	02/16/18 14:34	
Chloroform	3.8 U	3.8	0.96	.67	02/16/18 14:34	
Chloromethane	3.8 U	3.8	0.31	.67	02/16/18 14:34	
Cyclohexane	<b>1.7 J</b>	3.8	1.1	.67	02/16/18 14:34	
Dibromochloromethane	3.8 U	3.8	0.56	.67	02/16/18 14:34	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.67	02/16/18 14:34	
Dichloromethane	3.8 U	3.8	0.44	.67	02/16/18 14:34	
Ethylbenzene	3.8 U	3.8	0.18	.67	02/16/18 14:34	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.51	.67	02/16/18 14:34	
Methyl Acetate	3.8 U	3.8	1.4	.67	02/16/18 14:34	
Methyl tert-Butyl Ether	3.8 U	3.8	0.72	.67	02/16/18 14:34	
Methylcyclohexane	<b>2.0 J</b>	3.8	0.92	.67	02/16/18 14:34	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 12:40  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.23	.67	02/16/18 14:34	
Tetrachloroethene (PCE)	3.8 U	3.8	0.67	.67	02/16/18 14:34	
Toluene	<b>1.6 J</b>	3.8	0.76	.67	02/16/18 14:34	
Trichloroethene (TCE)	3.8 U	3.8	0.77	.67	02/16/18 14:34	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.51	.67	02/16/18 14:34	
Vinyl Chloride	3.8 U	3.8	1.4	.67	02/16/18 14:34	
cis-1,2-Dichloroethene	3.8 U	3.8	0.73	.67	02/16/18 14:34	
cis-1,3-Dichloropropene	3.8 U	3.8	0.69	.67	02/16/18 14:34	
m,p-Xylenes	<b>1.5 J</b>	7.6	0.83	.67	02/16/18 14:34	
n-Butylbenzene	3.8 U	3.8	0.75	.67	02/16/18 14:34	
n-Propylbenzene	3.8 U	3.8	0.60	.67	02/16/18 14:34	
o-Xylene	3.8 U	3.8	0.37	.67	02/16/18 14:34	
sec-Butylbenzene	3.8 U	3.8	0.55	.67	02/16/18 14:34	
tert-Butylbenzene	3.8 U	3.8	0.45	.67	02/16/18 14:34	
trans-1,2-Dichloroethene	3.8 U	3.8	0.66	.67	02/16/18 14:34	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.67	02/16/18 14:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	51 - 136	02/16/18 14:34	
Dibromofluoromethane	98	63 - 138	02/16/18 14:34	
Toluene-d8	103	66 - 138	02/16/18 14:34	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 13:30  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.56	.72	02/16/18 14:57	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.62	.72	02/16/18 14:57	
1,1,2-Trichloroethane	3.8 U	3.8	0.56	.72	02/16/18 14:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.94	.72	02/16/18 14:57	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.95	.72	02/16/18 14:57	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.97	.72	02/16/18 14:57	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.47	.72	02/16/18 14:57	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.45	.72	02/16/18 14:57	
1,2,4-Trimethylbenzene	7.1	3.8	0.41	.72	02/16/18 14:57	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.72	02/16/18 14:57	
1,2-Dibromoethane	3.8 U	3.8	0.92	.72	02/16/18 14:57	
1,2-Dichlorobenzene	3.8 U	3.8	0.46	.72	02/16/18 14:57	
1,2-Dichloroethane	3.8 U	3.8	0.46	.72	02/16/18 14:57	
1,2-Dichloropropane	3.8 U	3.8	0.74	.72	02/16/18 14:57	
1,3,5-Trimethylbenzene	3.5 J	3.8	0.60	.72	02/16/18 14:57	
1,3-Dichlorobenzene	3.8 U	3.8	0.48	.72	02/16/18 14:57	
1,4-Dichlorobenzene	3.8 U	3.8	0.43	.72	02/16/18 14:57	
1,4-Dioxane	75 U	75	15	.72	02/16/18 14:57	
2-Butanone (MEK)	1.8 J	3.8	1.8	.72	02/16/18 14:57	
2-Hexanone	3.8 U	3.8	0.92	.72	02/16/18 14:57	
4-Isopropyltoluene	3.8 U	3.8	0.66	.72	02/16/18 14:57	
4-Methyl-2-pentanone	3.8 U	3.8	0.74	.72	02/16/18 14:57	
Acetone	10	3.8	2.2	.72	02/16/18 14:57	
Benzene	6.4	3.8	0.22	.72	02/16/18 14:57	
Bromochloromethane	3.8 U	3.8	1.1	.72	02/16/18 14:57	
Bromodichloromethane	3.8 U	3.8	0.46	.72	02/16/18 14:57	
Bromoform	3.8 U	3.8	0.71	.72	02/16/18 14:57	
Bromomethane	3.8 U	3.8	1.1	.72	02/16/18 14:57	
Carbon Disulfide	3.8 U	3.8	0.94	.72	02/16/18 14:57	
Carbon Tetrachloride	3.8 U	3.8	0.70	.72	02/16/18 14:57	
Chlorobenzene	3.8 U	3.8	0.22	.72	02/16/18 14:57	
Chloroethane	3.8 U	3.8	2.2	.72	02/16/18 14:57	
Chloroform	3.8 U	3.8	0.95	.72	02/16/18 14:57	
Chloromethane	3.8 U	3.8	0.31	.72	02/16/18 14:57	
Cyclohexane	12	3.8	1.1	.72	02/16/18 14:57	
Dibromochloromethane	3.8 U	3.8	0.56	.72	02/16/18 14:57	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.72	02/16/18 14:57	
Dichloromethane	0.50 J	3.8	0.43	.72	02/16/18 14:57	
Ethylbenzene	1.8 J	3.8	0.18	.72	02/16/18 14:57	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.51	.72	02/16/18 14:57	
Methyl Acetate	3.8 U	3.8	1.4	.72	02/16/18 14:57	
Methyl tert-Butyl Ether	3.8 U	3.8	0.71	.72	02/16/18 14:57	
Methylcyclohexane	20	3.8	0.91	.72	02/16/18 14:57	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 13:30  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.23	.72	02/16/18 14:57	
Tetrachloroethene (PCE)	3.8 U	3.8	0.67	.72	02/16/18 14:57	
Toluene	<b>15</b>	3.8	0.76	.72	02/16/18 14:57	
Trichloroethene (TCE)	3.8 U	3.8	0.77	.72	02/16/18 14:57	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.50	.72	02/16/18 14:57	
Vinyl Chloride	3.8 U	3.8	1.4	.72	02/16/18 14:57	
cis-1,2-Dichloroethene	3.8 U	3.8	0.72	.72	02/16/18 14:57	
cis-1,3-Dichloropropene	3.8 U	3.8	0.68	.72	02/16/18 14:57	
m,p-Xylenes	<b>14</b>	7.5	0.83	.72	02/16/18 14:57	
n-Butylbenzene	3.8 U	3.8	0.74	.72	02/16/18 14:57	
n-Propylbenzene	3.8 U	3.8	0.59	.72	02/16/18 14:57	
o-Xylene	<b>4.2</b>	3.8	0.37	.72	02/16/18 14:57	
sec-Butylbenzene	3.8 U	3.8	0.55	.72	02/16/18 14:57	
tert-Butylbenzene	3.8 U	3.8	0.44	.72	02/16/18 14:57	
trans-1,2-Dichloroethene	3.8 U	3.8	0.65	.72	02/16/18 14:57	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.72	02/16/18 14:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	51 - 136	02/16/18 14:57	
Dibromofluoromethane	98	63 - 138	02/16/18 14:57	
Toluene-d8	101	66 - 138	02/16/18 14:57	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:00  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.7 U	4.7	0.69	.76	02/16/18 15:20	
1,1,2,2-Tetrachloroethane	4.7 U	4.7	0.76	.76	02/16/18 15:20	
1,1,2-Trichloroethane	4.7 U	4.7	0.69	.76	02/16/18 15:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,1-Dichloroethane (1,1-DCA)	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,1-Dichloroethene (1,1-DCE)	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,2,3-Trichlorobenzene	4.7 U	4.7	0.59	.76	02/16/18 15:20	
1,2,4-Trichlorobenzene	4.7 U	4.7	0.56	.76	02/16/18 15:20	
1,2,4-Trimethylbenzene	<b>0.52 J</b>	4.7	0.51	.76	02/16/18 15:20	
1,2-Dibromo-3-chloropropane (DBCP)	4.7 U	4.7	1.8	.76	02/16/18 15:20	
1,2-Dibromoethane	4.7 U	4.7	1.2	.76	02/16/18 15:20	
1,2-Dichlorobenzene	4.7 U	4.7	0.58	.76	02/16/18 15:20	
1,2-Dichloroethane	4.7 U	4.7	0.58	.76	02/16/18 15:20	
1,2-Dichloropropane	4.7 U	4.7	0.91	.76	02/16/18 15:20	
1,3,5-Trimethylbenzene	4.7 U	4.7	0.75	.76	02/16/18 15:20	
1,3-Dichlorobenzene	4.7 U	4.7	0.60	.76	02/16/18 15:20	
1,4-Dichlorobenzene	4.7 U	4.7	0.53	.76	02/16/18 15:20	
1,4-Dioxane	94 U	94	18	.76	02/16/18 15:20	
2-Butanone (MEK)	4.7 U	4.7	2.2	.76	02/16/18 15:20	
2-Hexanone	4.7 U	4.7	1.2	.76	02/16/18 15:20	
4-Isopropyltoluene	4.7 U	4.7	0.82	.76	02/16/18 15:20	
4-Methyl-2-pentanone	4.7 U	4.7	0.92	.76	02/16/18 15:20	
Acetone	<b>9.3</b>	4.7	2.7	.76	02/16/18 15:20	
Benzene	<b>0.58 J</b>	4.7	0.28	.76	02/16/18 15:20	
Bromochloromethane	4.7 U	4.7	1.3	.76	02/16/18 15:20	
Bromodichloromethane	4.7 U	4.7	0.58	.76	02/16/18 15:20	
Bromoform	4.7 U	4.7	0.88	.76	02/16/18 15:20	
Bromomethane	4.7 U	4.7	1.3	.76	02/16/18 15:20	
Carbon Disulfide	4.7 U	4.7	1.2	.76	02/16/18 15:20	
Carbon Tetrachloride	4.7 U	4.7	0.87	.76	02/16/18 15:20	
Chlorobenzene	4.7 U	4.7	0.28	.76	02/16/18 15:20	
Chloroethane	4.7 U	4.7	2.7	.76	02/16/18 15:20	
Chloroform	4.7 U	4.7	1.2	.76	02/16/18 15:20	
Chloromethane	4.7 U	4.7	0.38	.76	02/16/18 15:20	
Cyclohexane	4.7 U	4.7	1.3	.76	02/16/18 15:20	
Dibromochloromethane	4.7 U	4.7	0.69	.76	02/16/18 15:20	
Dichlorodifluoromethane (CFC 12)	4.7 U	4.7	1.8	.76	02/16/18 15:20	
Dichloromethane	4.7 U	4.7	0.54	.76	02/16/18 15:20	
Ethylbenzene	4.7 U	4.7	0.22	.76	02/16/18 15:20	
Isopropylbenzene (Cumene)	4.7 U	4.7	0.63	.76	02/16/18 15:20	
Methyl Acetate	4.7 U	4.7	1.7	.76	02/16/18 15:20	
Methyl tert-Butyl Ether	4.7 U	4.7	0.89	.76	02/16/18 15:20	
Methylcyclohexane	<b>1.4 J</b>	4.7	1.2	.76	02/16/18 15:20	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:00  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.7 U	4.7	0.29	.76	02/16/18 15:20	
Tetrachloroethene (PCE)	<b>0.95 J</b>	4.7	0.83	.76	02/16/18 15:20	
Toluene	<b>1.5 J</b>	4.7	0.94	.76	02/16/18 15:20	
Trichloroethene (TCE)	4.7 U	4.7	0.95	.76	02/16/18 15:20	
Trichlorofluoromethane (CFC 11)	4.7 U	4.7	0.62	.76	02/16/18 15:20	
Vinyl Chloride	4.7 U	4.7	1.8	.76	02/16/18 15:20	
cis-1,2-Dichloroethene	4.7 U	4.7	0.90	.76	02/16/18 15:20	
cis-1,3-Dichloropropene	4.7 U	4.7	0.85	.76	02/16/18 15:20	
m,p-Xylenes	<b>1.1 J</b>	9.4	1.1	.76	02/16/18 15:20	
n-Butylbenzene	4.7 U	4.7	0.92	.76	02/16/18 15:20	
n-Propylbenzene	4.7 U	4.7	0.74	.76	02/16/18 15:20	
o-Xylene	4.7 U	4.7	0.45	.76	02/16/18 15:20	
sec-Butylbenzene	4.7 U	4.7	0.68	.76	02/16/18 15:20	
tert-Butylbenzene	4.7 U	4.7	0.55	.76	02/16/18 15:20	
trans-1,2-Dichloroethene	4.7 U	4.7	0.81	.76	02/16/18 15:20	
trans-1,3-Dichloropropene	4.7 U	4.7	0.19	.76	02/16/18 15:20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	51 - 136	02/16/18 15:20	
Dibromofluoromethane	98	63 - 138	02/16/18 15:20	
Toluene-d8	103	66 - 138	02/16/18 15:20	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.8 U	3.8	0.57	.7	02/16/18 15:43	
1,1,2,2-Tetrachloroethane	3.8 U	3.8	0.63	.7	02/16/18 15:43	
1,1,2-Trichloroethane	3.8 U	3.8	0.57	.7	02/16/18 15:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.8 U	3.8	0.96	.7	02/16/18 15:43	
1,1-Dichloroethane (1,1-DCA)	3.8 U	3.8	0.97	.7	02/16/18 15:43	
1,1-Dichloroethene (1,1-DCE)	3.8 U	3.8	0.99	.7	02/16/18 15:43	
1,2,3-Trichlorobenzene	3.8 U	3.8	0.48	.7	02/16/18 15:43	
1,2,4-Trichlorobenzene	3.8 U	3.8	0.46	.7	02/16/18 15:43	
1,2,4-Trimethylbenzene	3.8 U	3.8	0.42	.7	02/16/18 15:43	
1,2-Dibromo-3-chloropropane (DBCP)	3.8 U	3.8	1.5	.7	02/16/18 15:43	
1,2-Dibromoethane	3.8 U	3.8	0.94	.7	02/16/18 15:43	
1,2-Dichlorobenzene	3.8 U	3.8	0.47	.7	02/16/18 15:43	
1,2-Dichloroethane	3.8 U	3.8	0.47	.7	02/16/18 15:43	
1,2-Dichloropropane	3.8 U	3.8	0.75	.7	02/16/18 15:43	
1,3,5-Trimethylbenzene	3.8 U	3.8	0.61	.7	02/16/18 15:43	
1,3-Dichlorobenzene	3.8 U	3.8	0.49	.7	02/16/18 15:43	
1,4-Dichlorobenzene	3.8 U	3.8	0.44	.7	02/16/18 15:43	
1,4-Dioxane	77 U	77	15	.7	02/16/18 15:43	
2-Butanone (MEK)	3.8 U	3.8	1.8	.7	02/16/18 15:43	
2-Hexanone	3.8 U	3.8	0.94	.7	02/16/18 15:43	
4-Isopropyltoluene	3.8 U	3.8	0.67	.7	02/16/18 15:43	
4-Methyl-2-pentanone	3.8 U	3.8	0.76	.7	02/16/18 15:43	
Acetone	3.8 U	3.8	2.2	.7	02/16/18 15:43	
Benzene	3.8 U	3.8	0.23	.7	02/16/18 15:43	
Bromochloromethane	3.8 U	3.8	1.1	.7	02/16/18 15:43	
Bromodichloromethane	3.8 U	3.8	0.47	.7	02/16/18 15:43	
Bromoform	3.8 U	3.8	0.72	.7	02/16/18 15:43	
Bromomethane	3.8 U	3.8	1.1	.7	02/16/18 15:43	
Carbon Disulfide	3.8 U	3.8	0.96	.7	02/16/18 15:43	
Carbon Tetrachloride	3.8 U	3.8	0.71	.7	02/16/18 15:43	
Chlorobenzene	3.8 U	3.8	0.23	.7	02/16/18 15:43	
Chloroethane	3.8 U	3.8	2.3	.7	02/16/18 15:43	
Chloroform	3.8 U	3.8	0.97	.7	02/16/18 15:43	
Chloromethane	3.8 U	3.8	0.31	.7	02/16/18 15:43	
Cyclohexane	3.8 U	3.8	1.1	.7	02/16/18 15:43	
Dibromochloromethane	3.8 U	3.8	0.57	.7	02/16/18 15:43	
Dichlorodifluoromethane (CFC 12)	3.8 U	3.8	1.5	.7	02/16/18 15:43	
Dichloromethane	3.8 U	3.8	0.44	.7	02/16/18 15:43	
Ethylbenzene	3.8 U	3.8	0.18	.7	02/16/18 15:43	
Isopropylbenzene (Cumene)	3.8 U	3.8	0.52	.7	02/16/18 15:43	
Methyl Acetate	3.8 U	3.8	1.4	.7	02/16/18 15:43	
Methyl tert-Butyl Ether	3.8 U	3.8	0.73	.7	02/16/18 15:43	
Methylcyclohexane	3.8 U	3.8	0.93	.7	02/16/18 15:43	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	3.8 U	3.8	0.24	.7	02/16/18 15:43	
Tetrachloroethene (PCE)	3.8 U	3.8	0.68	.7	02/16/18 15:43	
Toluene	3.8 U	3.8	0.77	.7	02/16/18 15:43	
Trichloroethene (TCE)	3.8 U	3.8	0.78	.7	02/16/18 15:43	
Trichlorofluoromethane (CFC 11)	3.8 U	3.8	0.51	.7	02/16/18 15:43	
Vinyl Chloride	3.8 U	3.8	1.5	.7	02/16/18 15:43	
cis-1,2-Dichloroethene	3.8 U	3.8	0.74	.7	02/16/18 15:43	
cis-1,3-Dichloropropene	3.8 U	3.8	0.70	.7	02/16/18 15:43	
m,p-Xylenes	7.7 U	7.7	0.84	.7	02/16/18 15:43	
n-Butylbenzene	3.8 U	3.8	0.76	.7	02/16/18 15:43	
n-Propylbenzene	3.8 U	3.8	0.61	.7	02/16/18 15:43	
o-Xylene	3.8 U	3.8	0.37	.7	02/16/18 15:43	
sec-Butylbenzene	3.8 U	3.8	0.56	.7	02/16/18 15:43	
tert-Butylbenzene	3.8 U	3.8	0.45	.7	02/16/18 15:43	
trans-1,2-Dichloroethene	3.8 U	3.8	0.67	.7	02/16/18 15:43	
trans-1,3-Dichloropropene	3.8 U	3.8	0.16	.7	02/16/18 15:43	

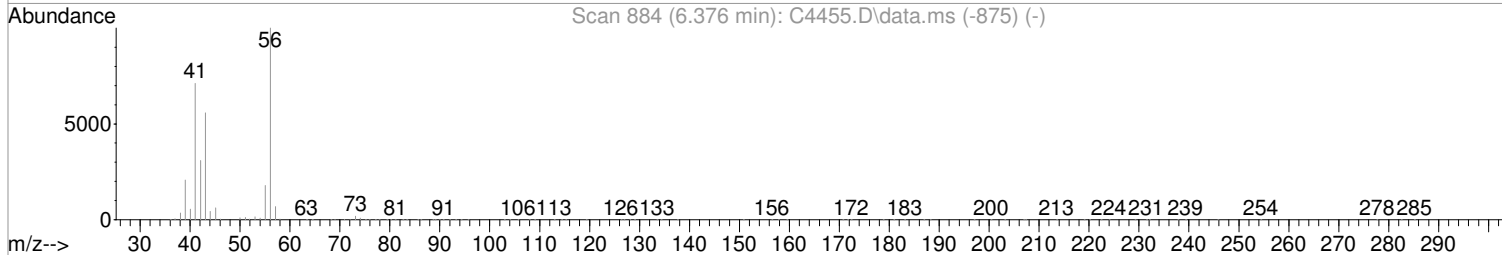
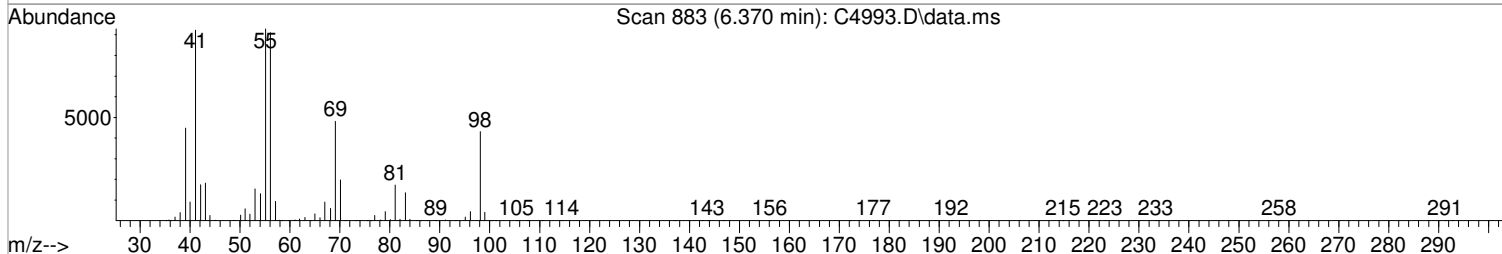
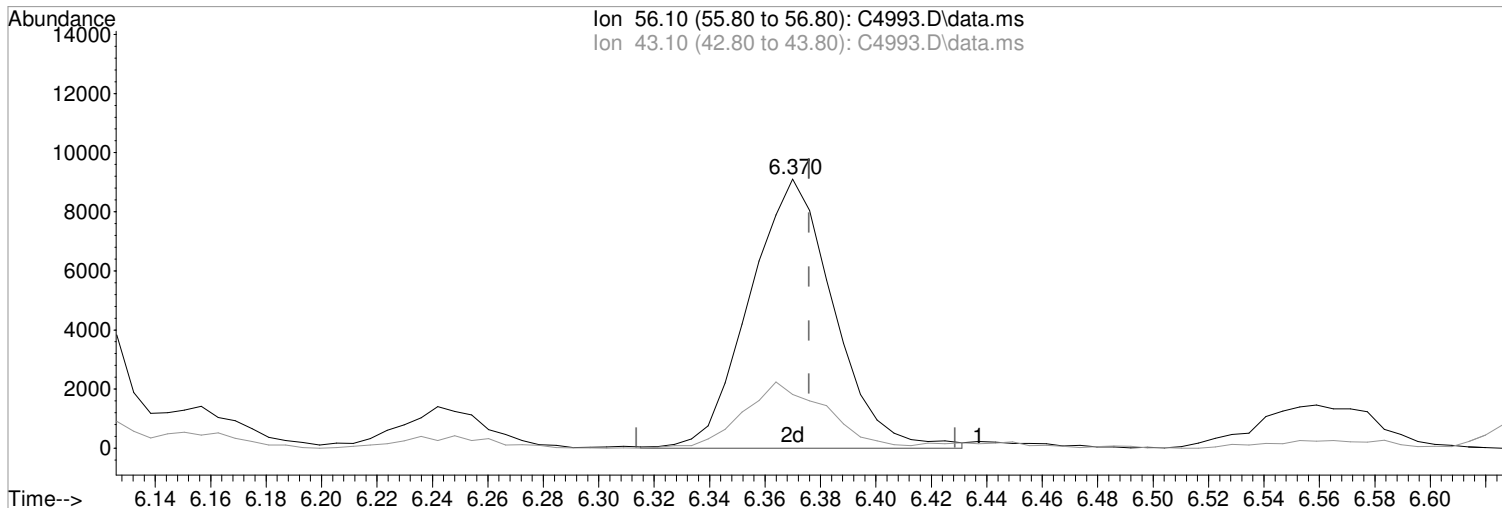
Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	51 - 136	02/16/18 15:43	
Dibromofluoromethane	97	63 - 138	02/16/18 15:43	
Toluene-d8	101	66 - 138	02/16/18 15:43	



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4993.D  
Acq On : 16 Feb 2018 12:38 pm  
Operator : F. NAEGLER  
Sample : R1801334-003|0.91  
Misc : DAY 12666 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:28:32 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C4993.D\data.ms

(52) 1-Butanol  
6.370min (-0.006) 201.49 ug/L m  
response 19213

Manual Integration:

After

Peak not found.

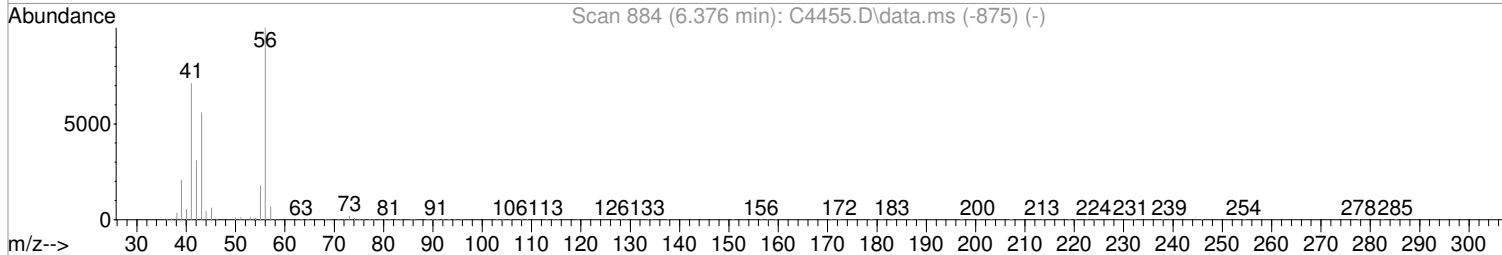
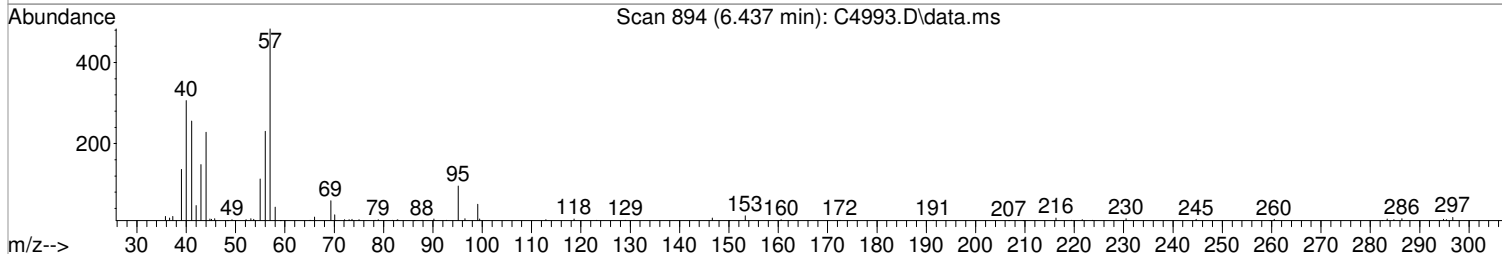
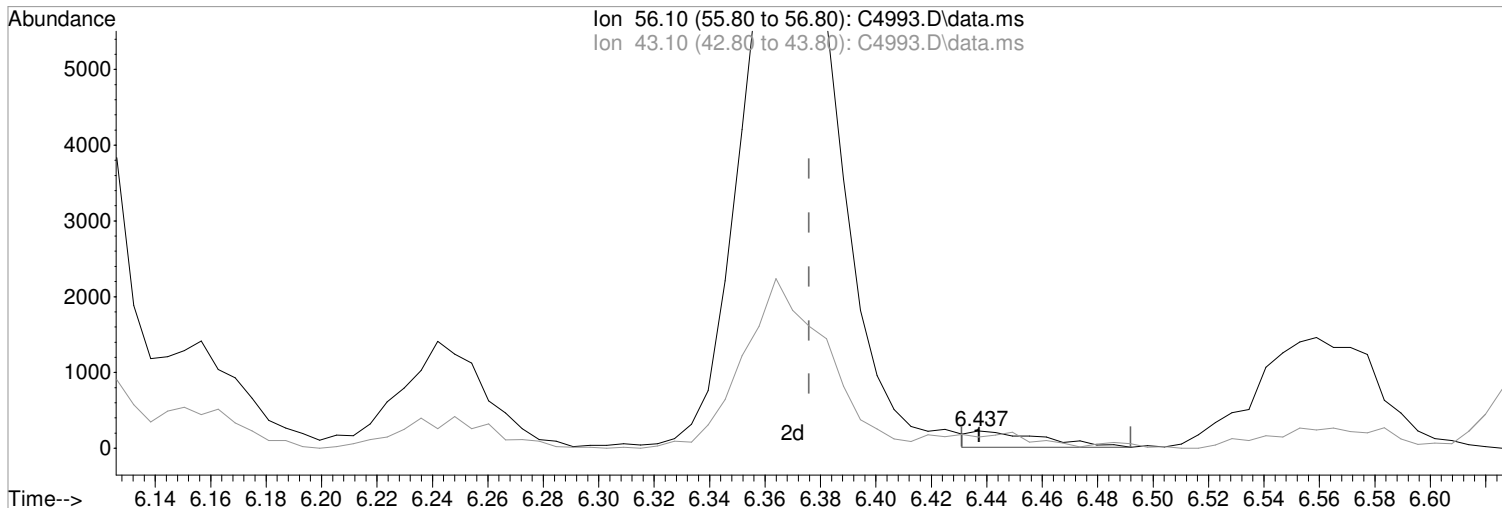
02/16/18

Ion	Exp%	Act%
56.10	100	100
43.10	55.90	19.99#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4993.D  
Acq On : 16 Feb 2018 12:38 pm  
Operator : F. NAEGLER  
Sample : R1801334-003|0.91  
Misc : DAY 12666 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:28:32 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(52) 1-Butanol  
6.437min (+0.061) 4.01 ug/L  
response 382

Manual Integration:  
Before

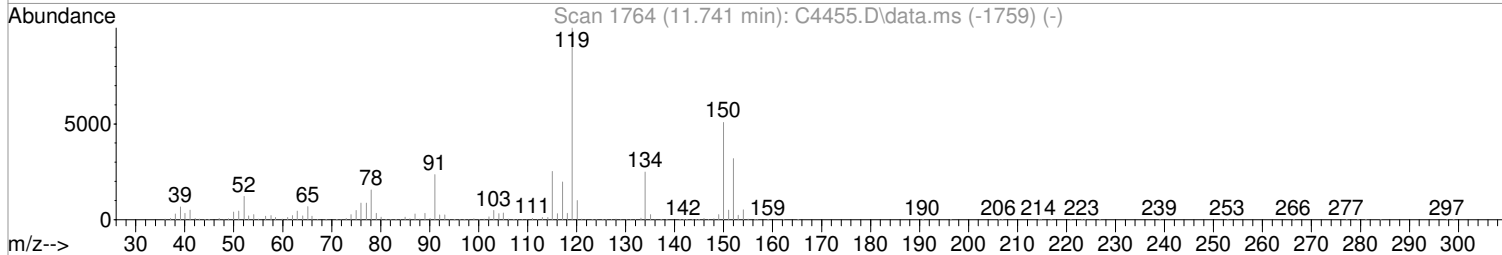
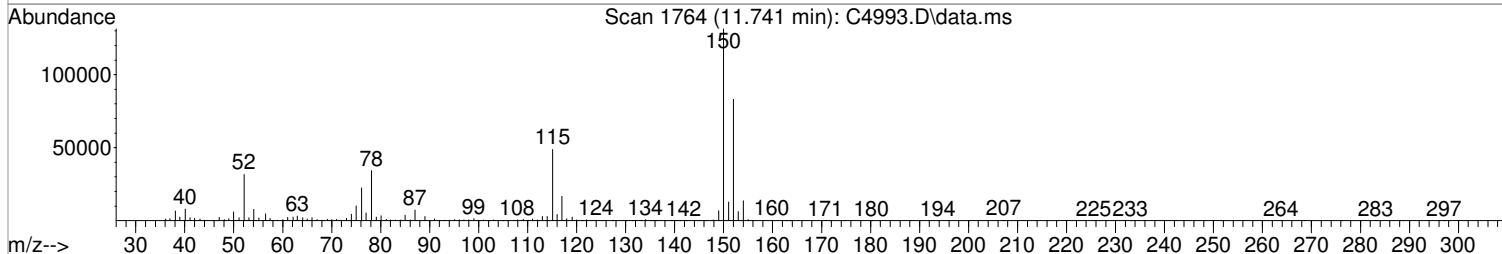
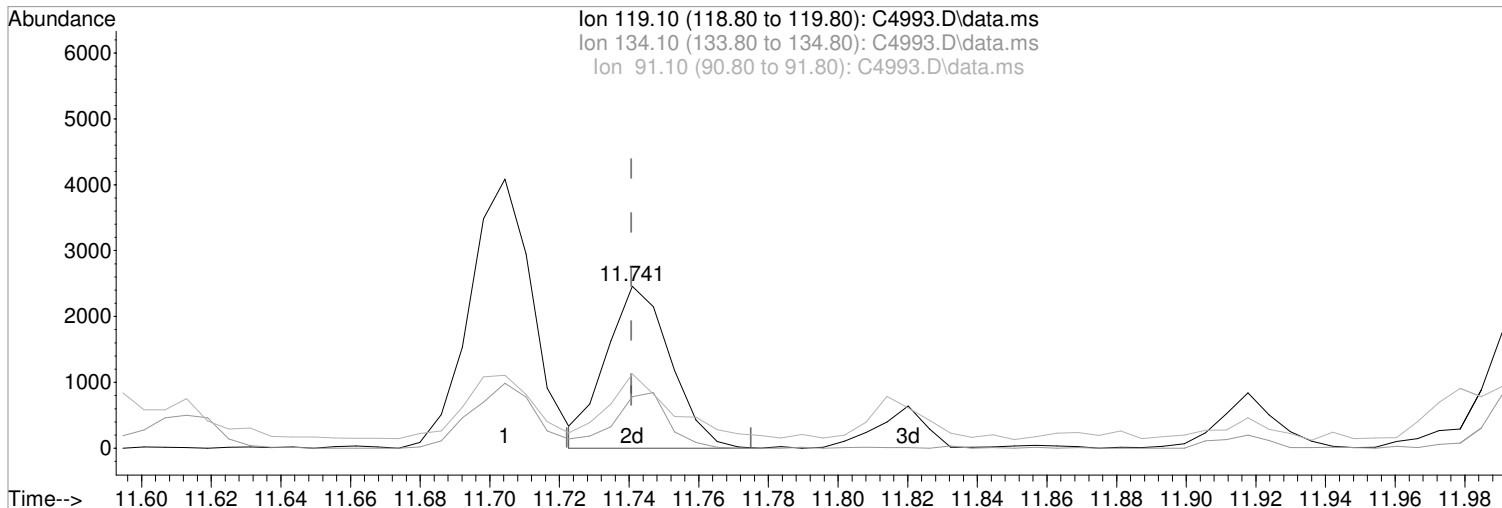
Ion	Exp%	Act%
56.10	100	100
43.10	55.90	64.35
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4993.D  
Acq On : 16 Feb 2018 12:38 pm  
Operator : F. NAEGLER  
Sample : R1801334-003|0.91  
Misc : DAY 12666 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:28:32 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(98) p-Isopropyltoluene  
11.741min (+0.000) 0.51 ug/L m  
response 3156

Manual Integration:  
After  
Wrong peak selected.

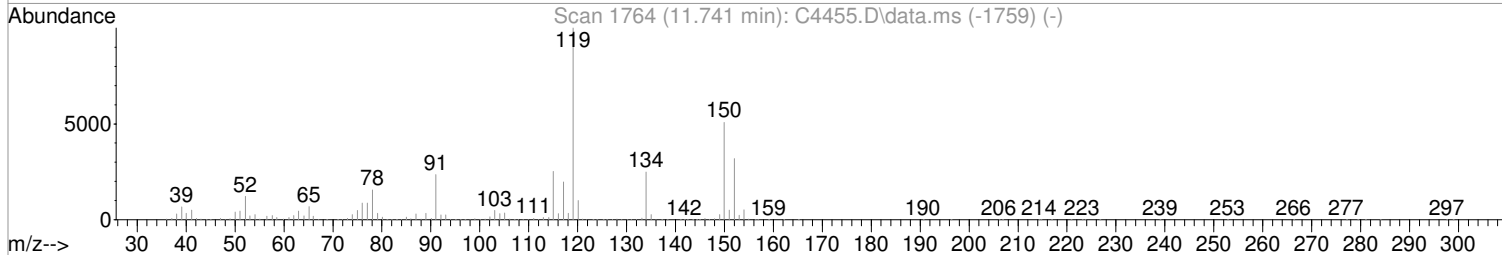
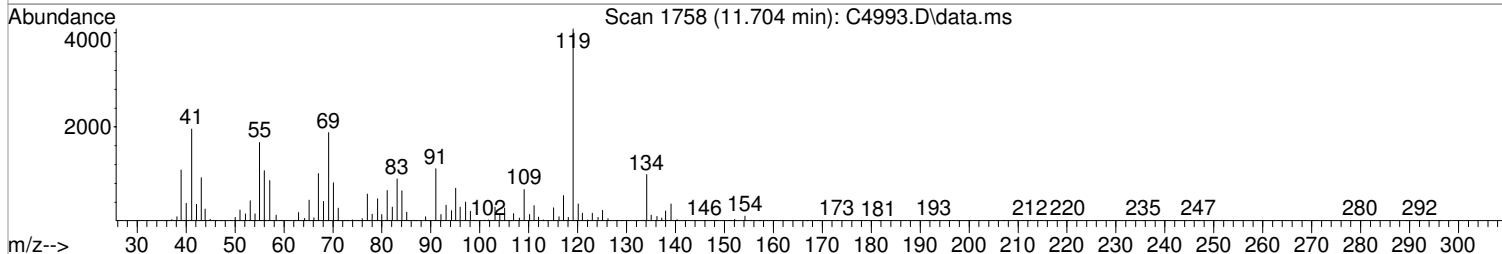
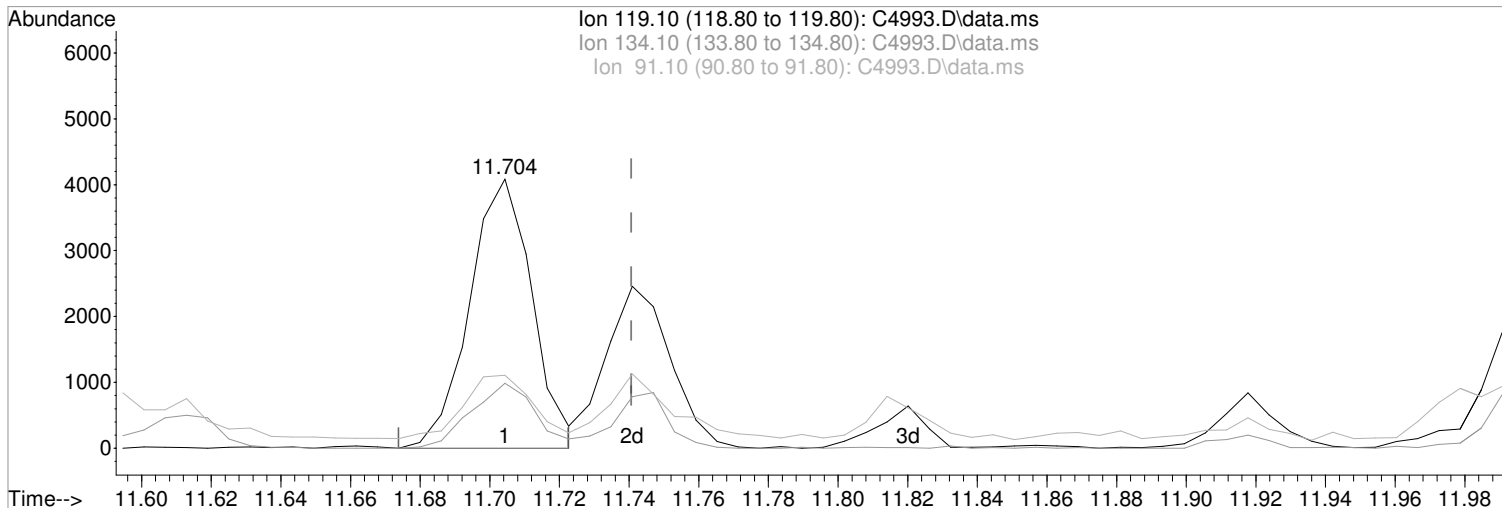
Ion	Exp%	Act%
119.10	100	100
134.10	24.90	31.73
91.10	23.50	45.85#
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4993.D  
Acq On : 16 Feb 2018 12:38 pm  
Operator : F. NAEGLER  
Sample : R1801334-003|0.91  
Misc : DAY 12666 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:28:32 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C4993.D\data.ms

(98) p-Isopropyltoluene  
11.704min (-0.036) 0.82 ug/L  
response 5082

Manual Integration:  
Before

Ion	Exp%	Act%
119.10	100	100
134.10	24.90	24.17
91.10	23.50	27.16
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4993.D  
 Acq On : 16 Feb 2018 12:38 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-003|0.91 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 16 13:35:17 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

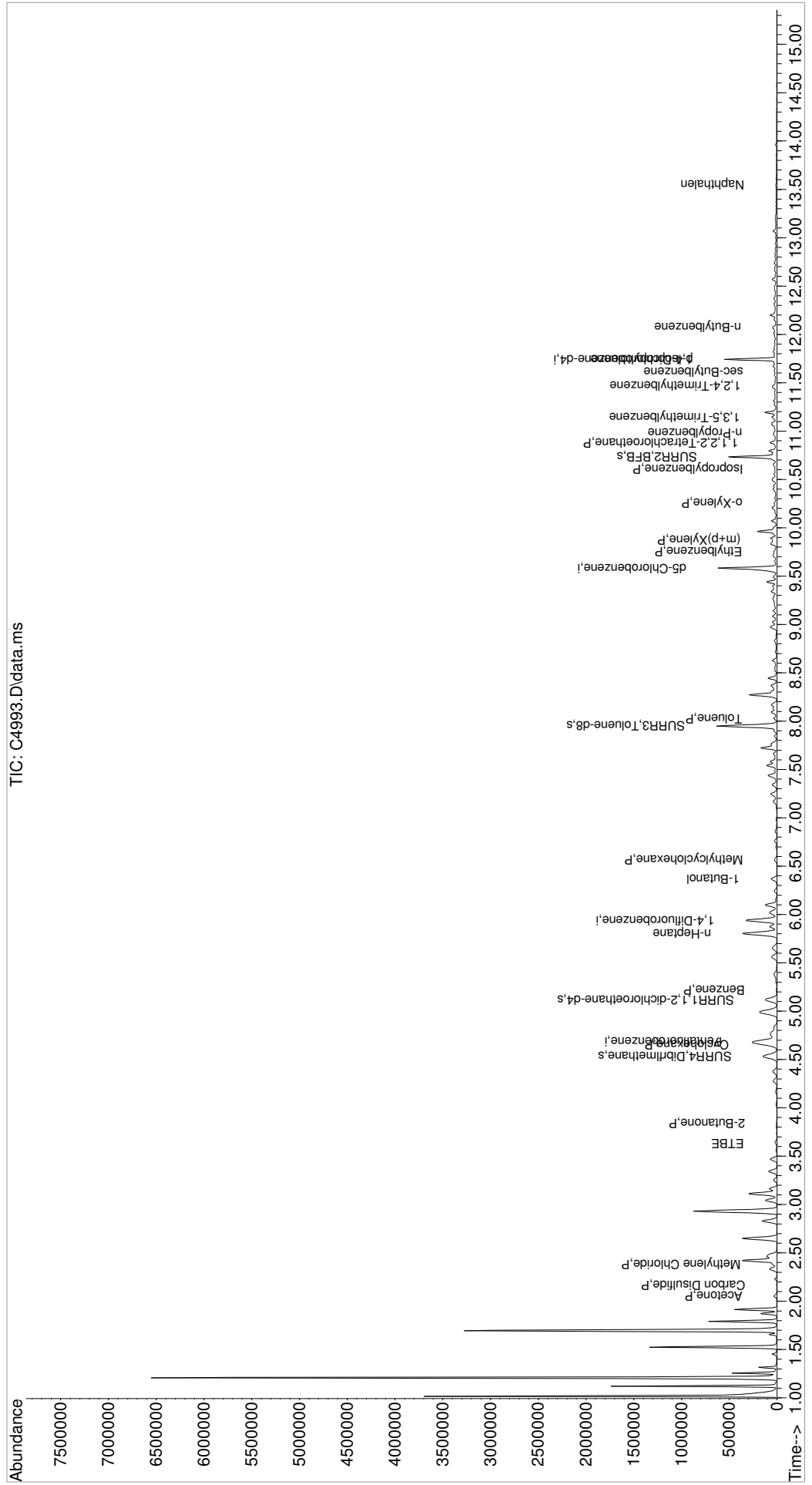
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	204689	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	311971	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	258873	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	97659	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	96583	49.71	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	99.42%		
47) SURR1,1,2-dichloroetha...	5.114	65	123949	53.27	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	106.54%		
64) SURR3,Toluene-d8	7.949	98	377305	50.79	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.58%		
69) SURR2,BFB	10.735	95	121223	40.45	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	80.90%		
Target Compounds						
15) Acetone	2.054	43	35093	37.84	ug/L	Qvalue 93
18) Carbon Disulfide	2.170	76	3374	0.55	ug/L	95
22) Methylene Chloride	2.383	84	1327	0.62	ug/L #	77
31) ETBE	3.633	59	2229	0.32	ug/L	80
34) 2-Butanone	3.840	43	6535	5.21	ug/L	99
43) Cyclohexane	4.657	41	41236	19.61	ug/L	87
48) Benzene	5.218	78	9037	1.10	ug/L	91
51) n-Heptane	5.803	43	189114	71.72	ug/L	97
52) 1-Butanol	6.370	56	19213m	201.49	ug/L	
54) Methylcyclohexane	6.565	55	9563	3.21	ug/L #	80
65) Toluene	8.028	91	20741	2.32	ug/L	95
79) Ethylbenzene	9.753	106	3770	1.27	ug/L	98
80) (m+p)Xylene	9.875	106	7888	2.12	ug/L	97
81) o-Xylene	10.253	106	3293	0.89	ug/L	98
84) Isopropylbenzene	10.607	105	3114	0.33	ug/L	96
88) 1,1,2,2-Tetrachloroethane	10.881	83	2262	1.21	ug/L	81
91) n-Propylbenzene	10.985	91	8650	1.13	ug/L	95
94) 1,3,5-Trimethylbenzene	11.143	105	6405	1.15	ug/L	92
96) 1,2,4-Trimethylbenzene	11.467	105	11975	2.11	ug/L	96
97) sec-Butylbenzene	11.613	105	3001	0.42	ug/L	98
98) p-Isopropyltoluene	11.741	119	3156m	0.51	ug/L	
101) n-Butylbenzene	12.076	91	5834	1.03	ug/L #	52
107) Naphthalen	13.552	128	1984	0.32	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

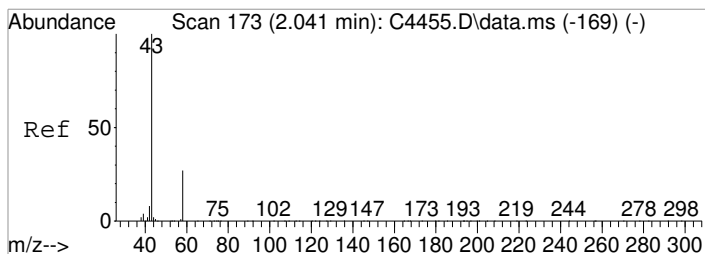
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 Acq On : 16 Feb 2018 12:38 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-003|0.91  
 Misc : DAY 12666 T4  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:35:17 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

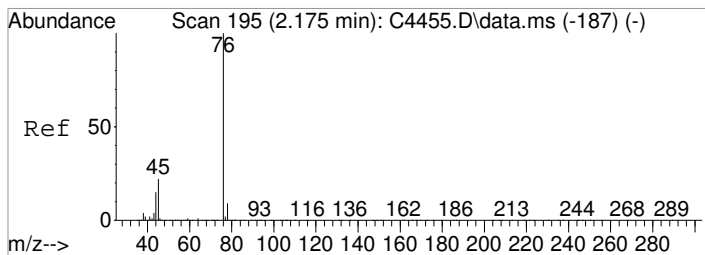
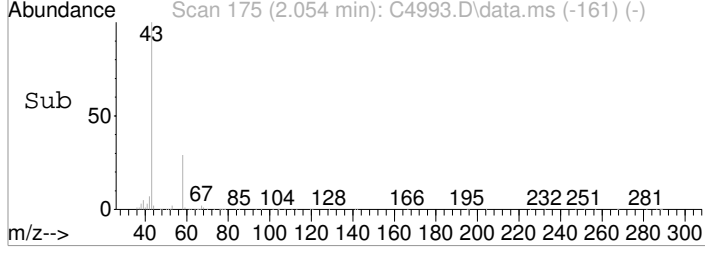
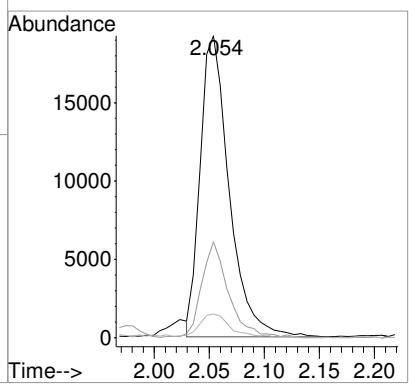
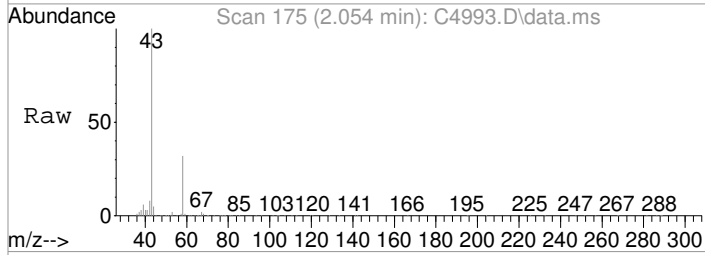






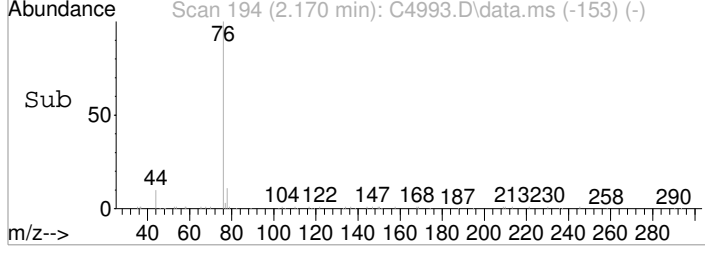
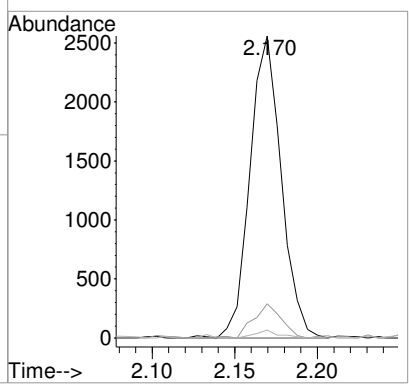
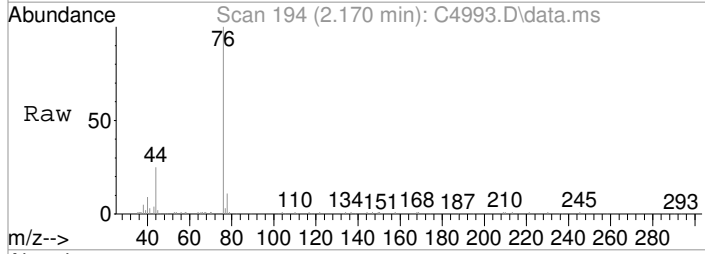
#15  
 Acetone  
 Concen: 37.84 ug/L  
 RT: 2.054 min Scan# 175  
 Delta R.T. 0.013 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

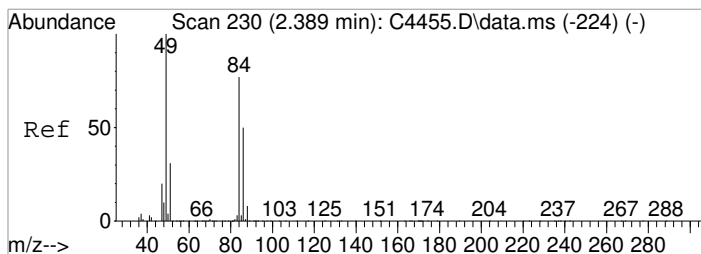
Tgt Ion:	43	58	42	Resp:	35093	Lower	Upper
Ion Ratio	100	31.7	7.8			7.1	47.1
						0.0	28.6



#18  
 Carbon Disulfide  
 Concen: 0.55 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

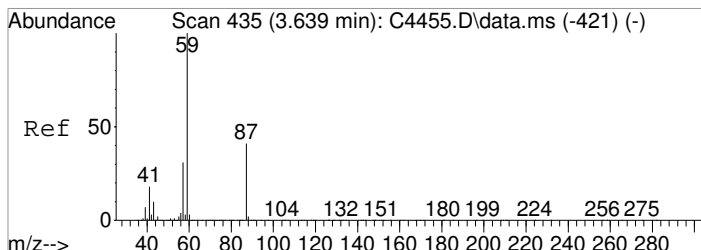
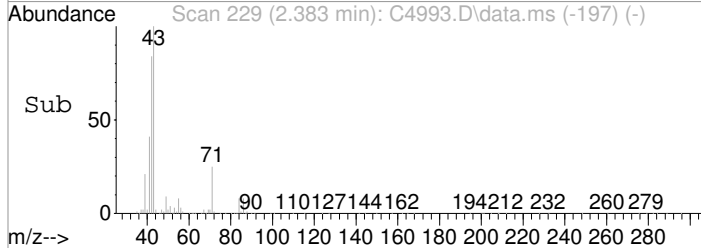
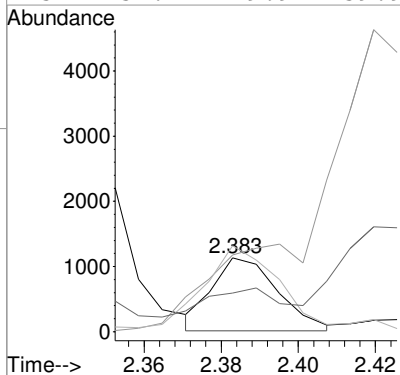
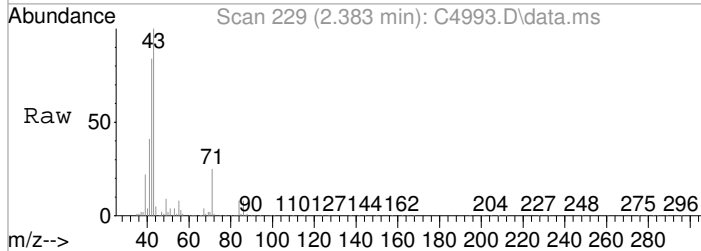
Tgt Ion:	76	78	77	Resp:	3374	Lower	Upper
Ion Ratio	100	11.3	2.7			0.0	28.9
						0.0	22.4





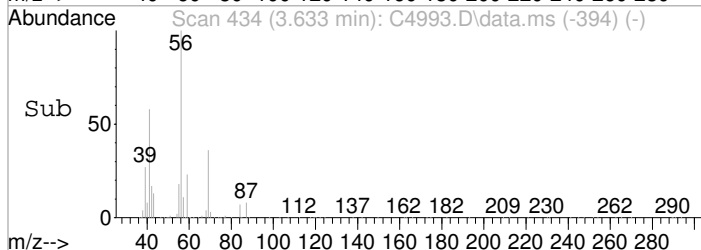
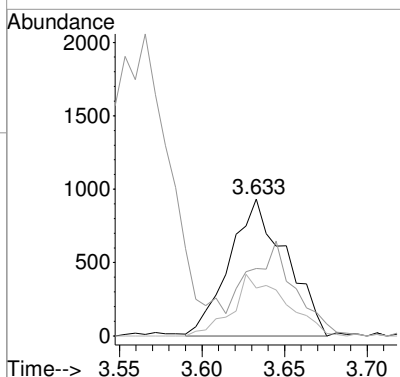
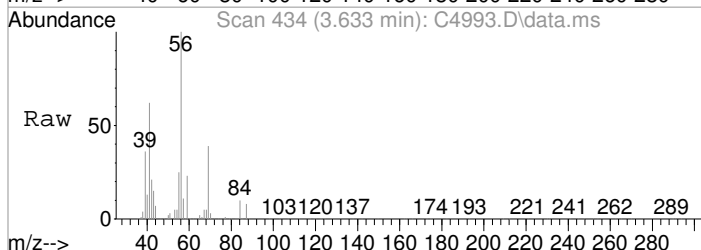
#22  
 Methylene Chloride  
 Concen: 0.62 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

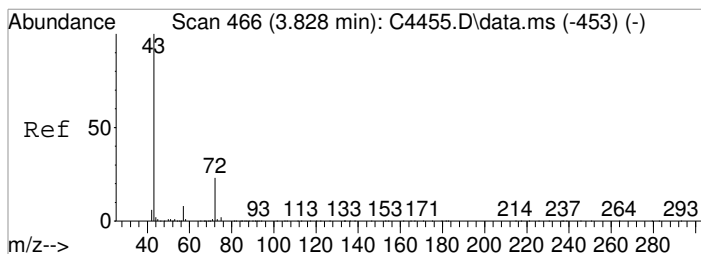
Tgt Ion:	84	Resp:	1327
Ion Ratio	Lower	Upper	
84	100		
86	103.7	43.9	83.9#
49	116.5	109.1	149.1
51	52.4	19.9	59.9



#31  
 ETBE  
 Concen: 0.32 ug/L  
 RT: 3.633 min Scan# 434  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

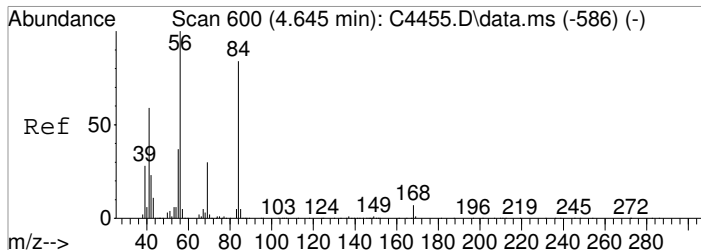
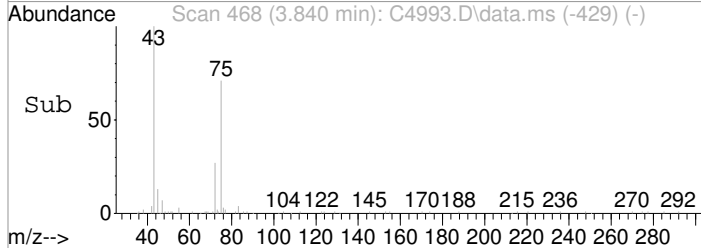
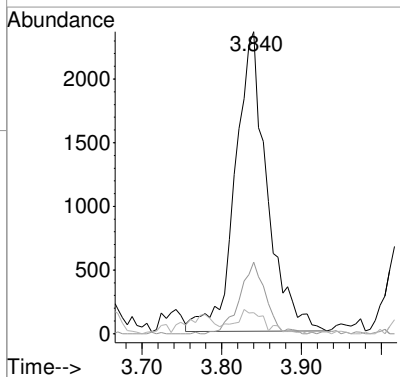
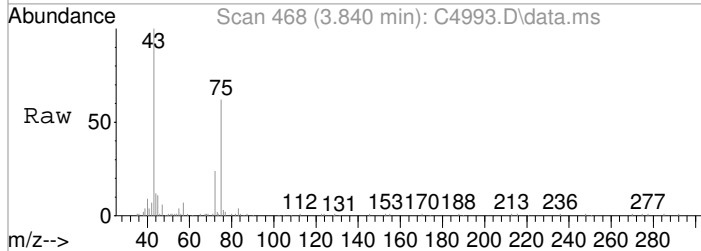
Tgt Ion:	59	Resp:	2229
Ion Ratio	Lower	Upper	
59	100		
57	49.4	11.5	51.5
87	35.0	21.4	61.4





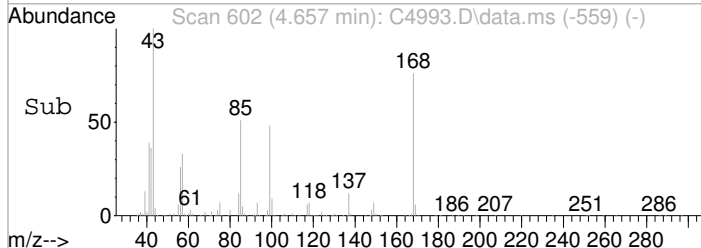
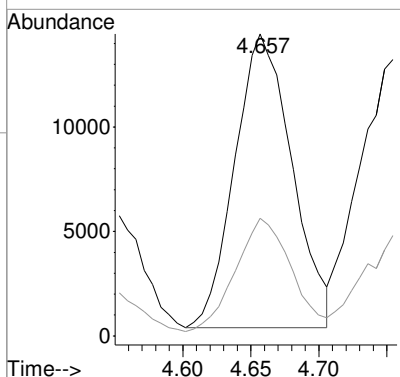
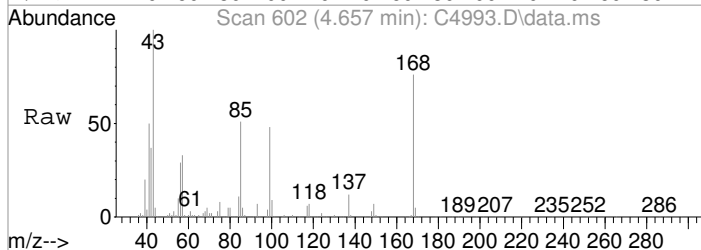
#34  
 2-Butanone  
 Concen: 5.21 ug/L  
 RT: 3.840 min Scan# 468  
 Delta R.T. 0.013 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

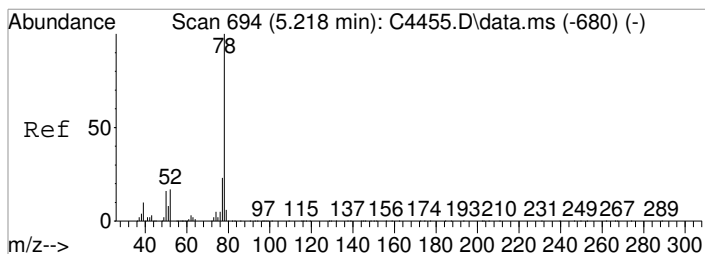
Tgt Ion:	43	72	57	Resp:	6535	Lower	Upper
Ion Ratio	100	23.7	7.0			3.3	43.3
						0.0	28.0



#43  
 Cyclohexane  
 Concen: 19.61 ug/L  
 RT: 4.657 min Scan# 602  
 Delta R.T. 0.012 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

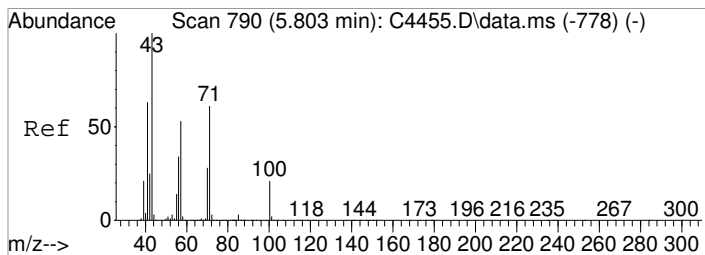
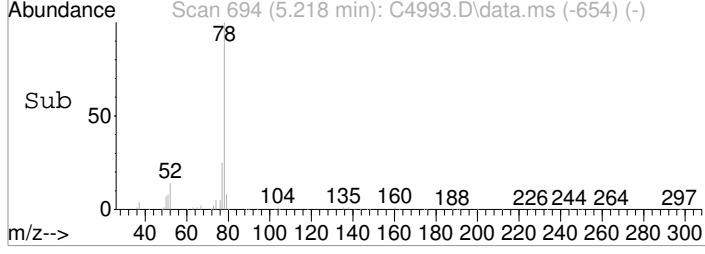
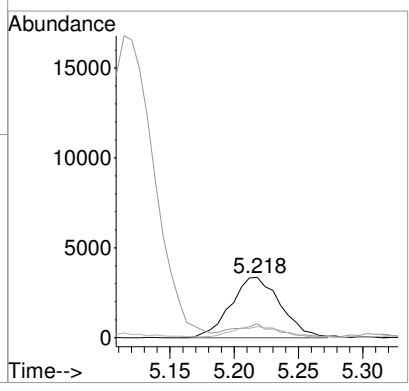
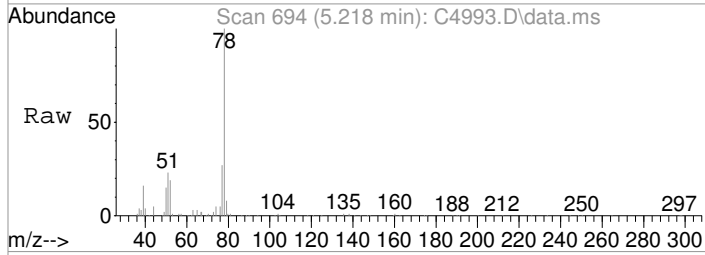
Tgt Ion:	41	39	Resp:	41236	Lower	Upper
Ion Ratio	100	39.0			28.0	68.0





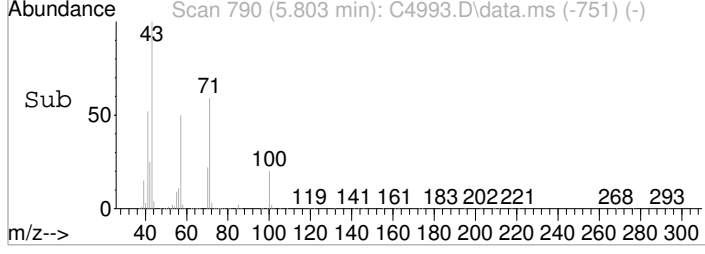
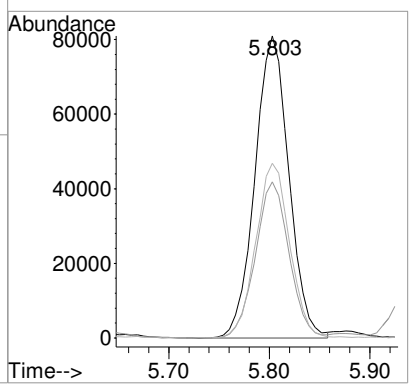
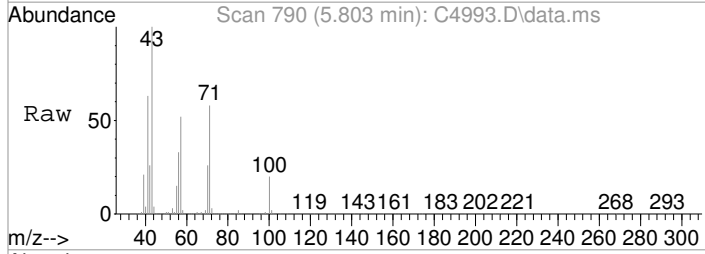
#48  
 Benzene  
 Concen: 1.10 ug/L  
 RT: 5.218 min Scan# 694  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

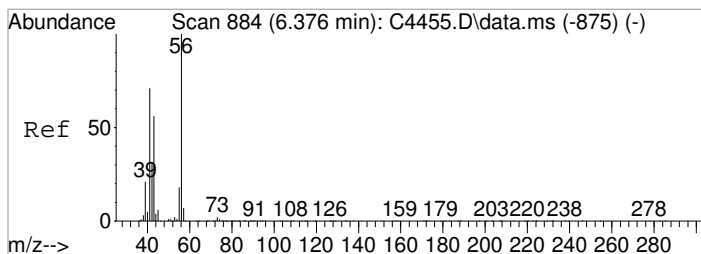
Tgt Ion	Resp	Lower	Upper
78	100		
51	23.2	0.0	37.4
52	18.5	0.0	36.9



#51  
 n-Heptane  
 Concen: 71.72 ug/L  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

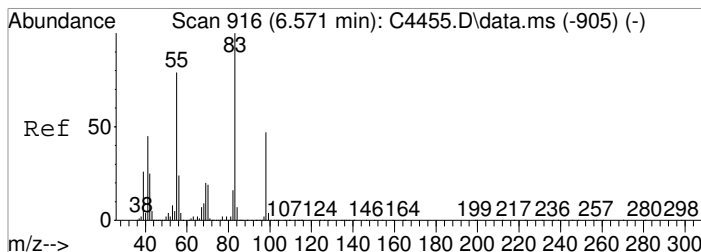
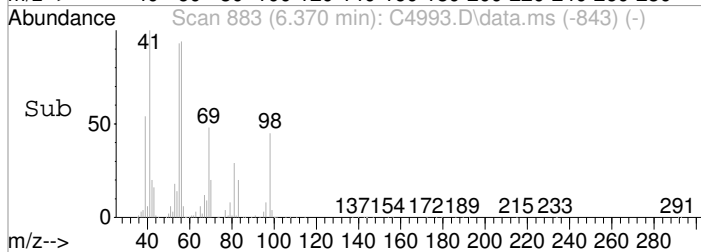
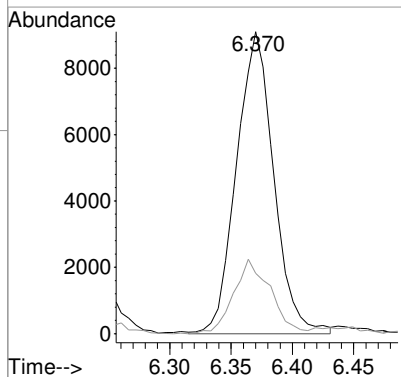
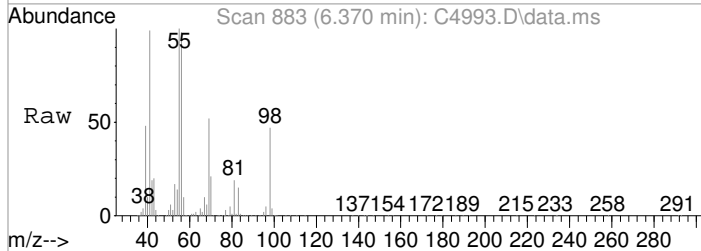
Tgt Ion	Resp	Lower	Upper
43	100		
57	51.7	33.3	73.3
71	57.8	40.9	80.9





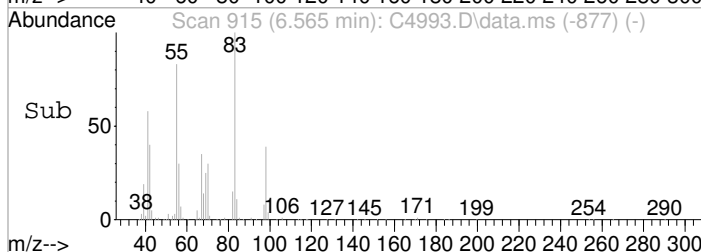
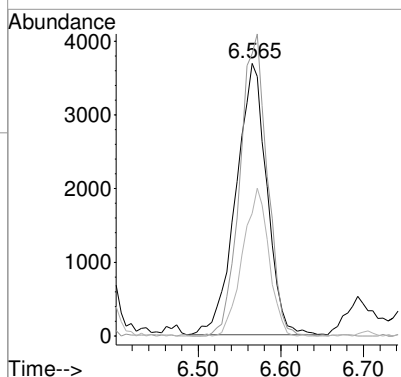
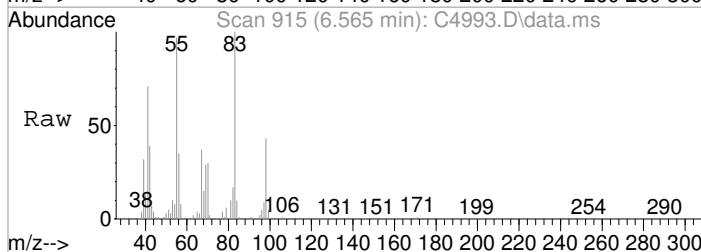
#52  
 1-Butanol  
 Concen: 201.49 ug/L m  
 RT: 6.370 min Scan# 883  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

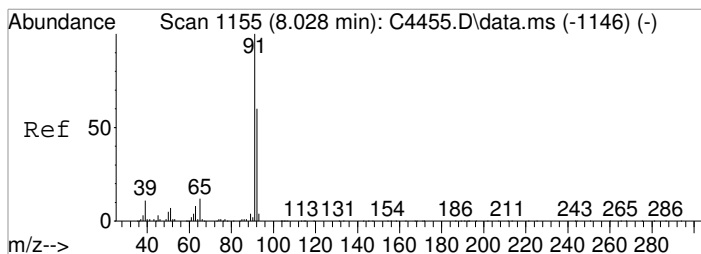
Tgt Ion	Resp	Lower	Upper
56	19213		
43	20.0	35.9	75.9#



#54  
 Methylcyclohexane  
 Concen: 3.21 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

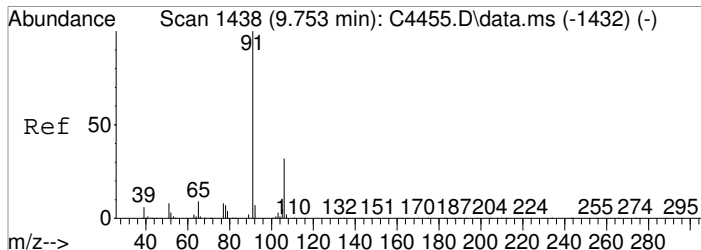
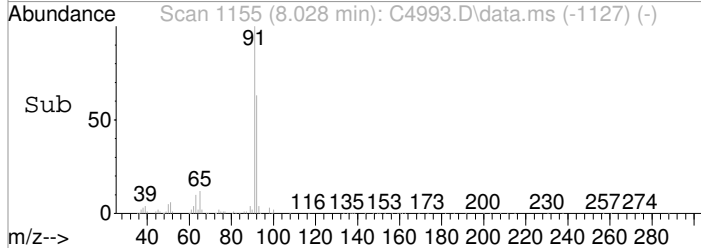
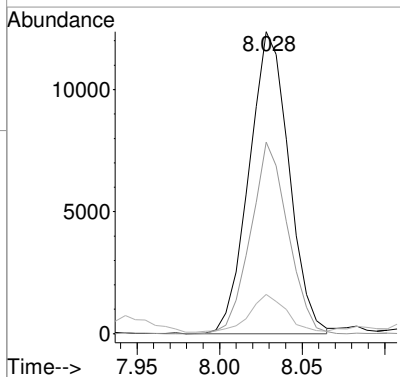
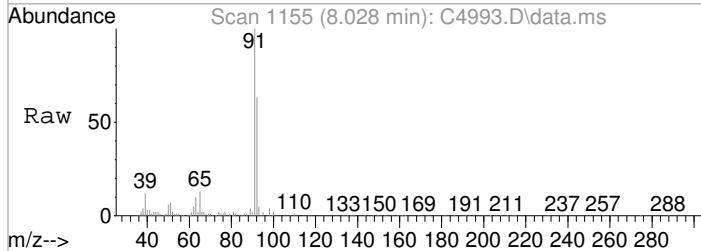
Tgt Ion	Resp	Lower	Upper
55	9563		
83	103.5	106.2	146.2#
98	44.9	39.7	79.7





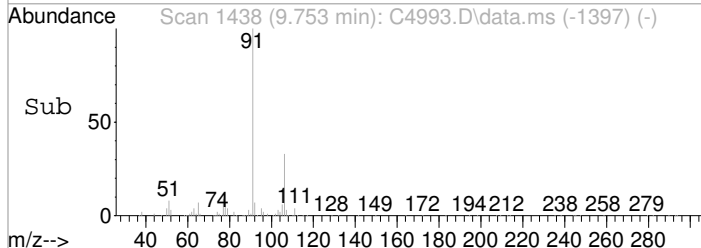
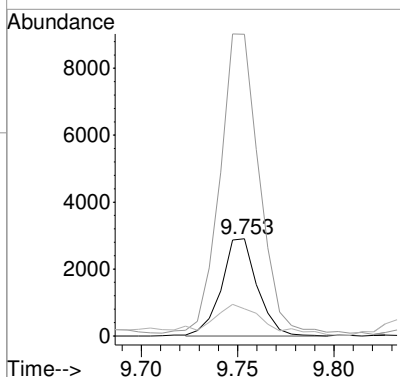
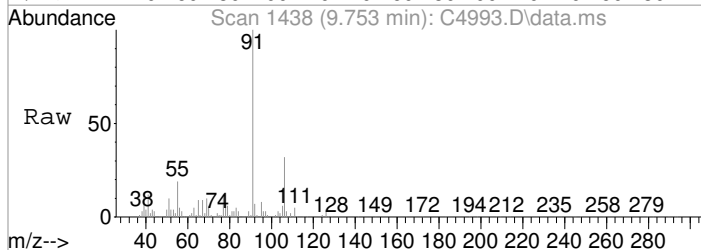
#65  
 Toluene  
 Concen: 2.32 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	63.4	39.7	79.7
65	13.0	0.0	31.9

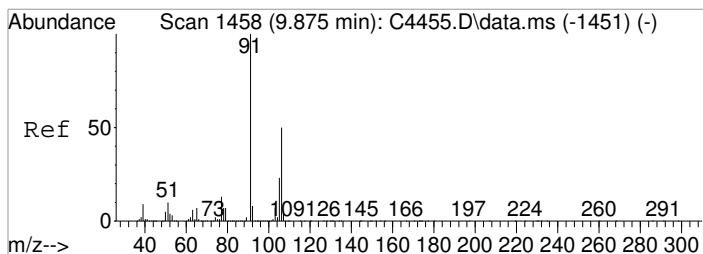


#79  
 Ethylbenzene  
 Concen: 1.27 ug/L  
 RT: 9.753 min Scan# 1438  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	310.2	295.6	335.6
65	28.0	8.0	48.0

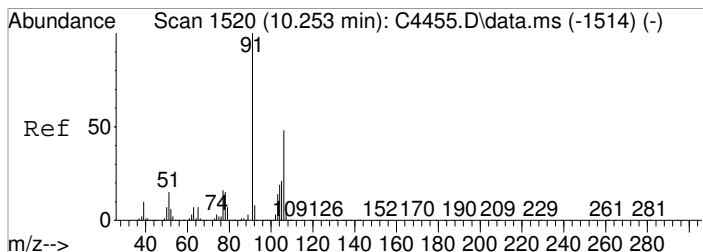
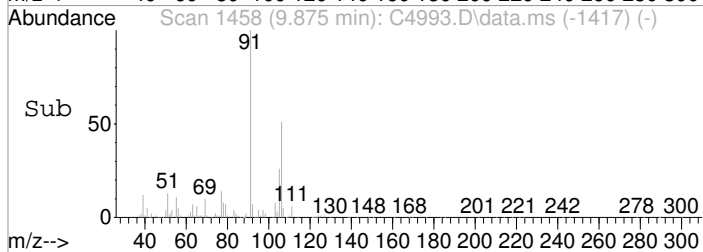
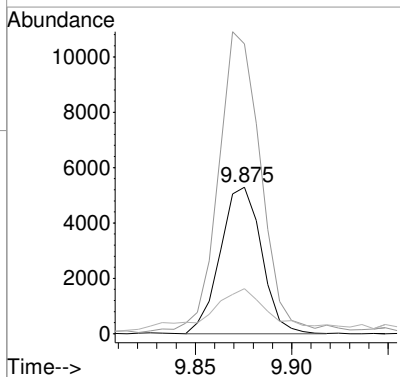
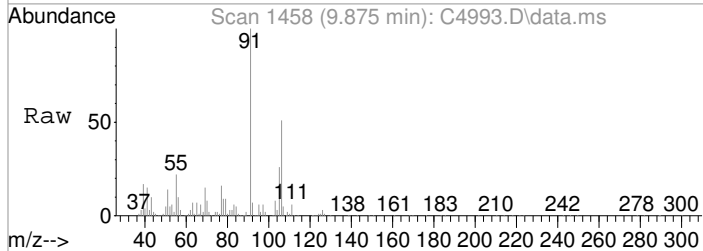






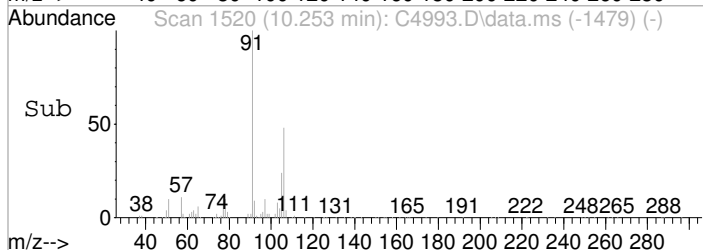
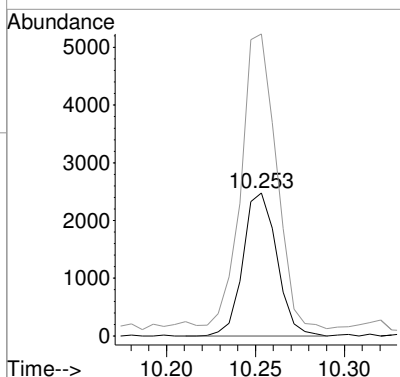
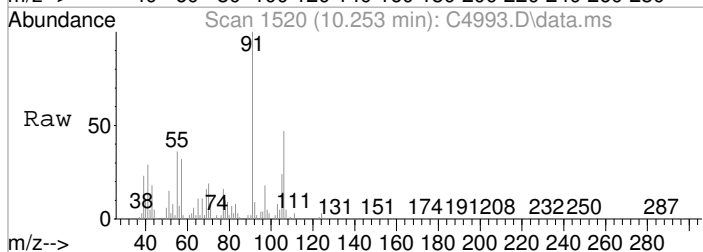
#80  
 (m+p)Xylene  
 Concen: 2.12 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

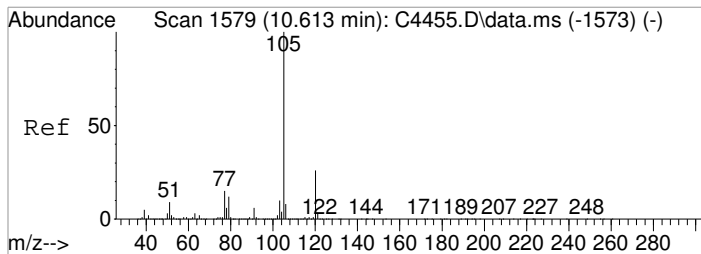
Tgt Ion	106	Resp:	7888
Ion Ratio	Lower	Upper	
106	100		
91	197.8	180.9	220.9
77	30.8	5.7	45.7



#81  
 o-Xylene  
 Concen: 0.89 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

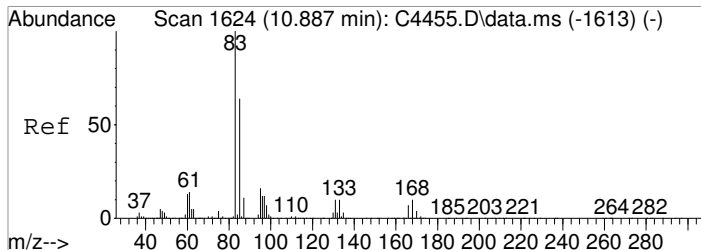
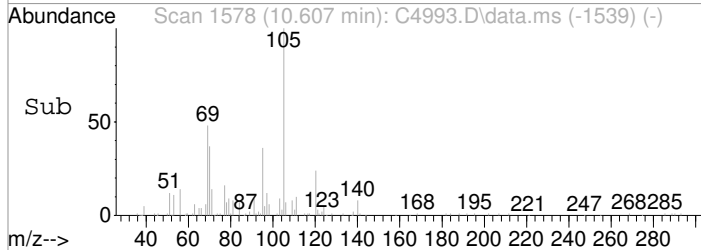
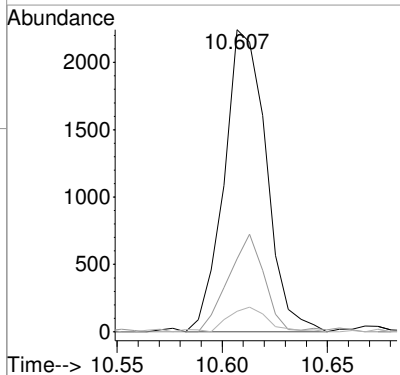
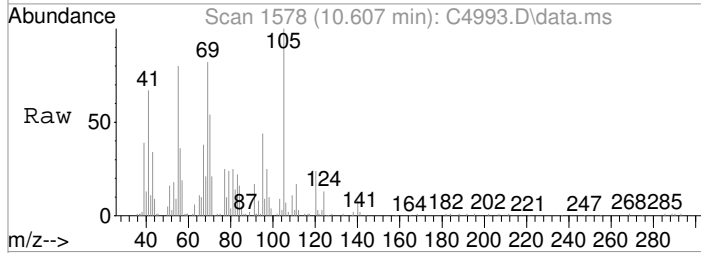
Tgt Ion	106	Resp:	3293
Ion Ratio	Lower	Upper	
106	100		
91	211.4	187.6	227.6





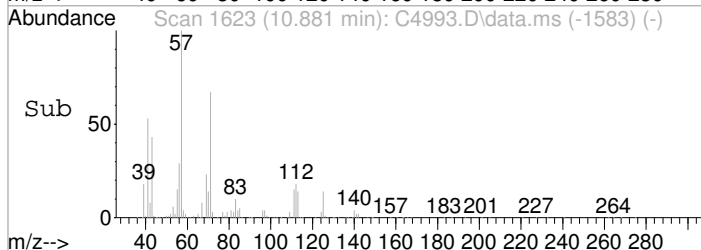
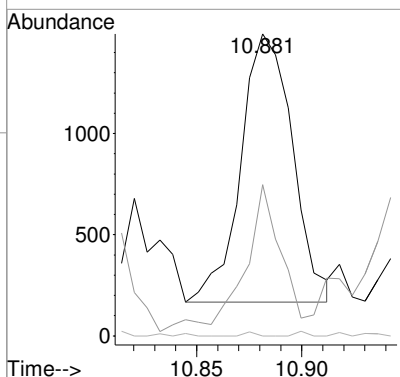
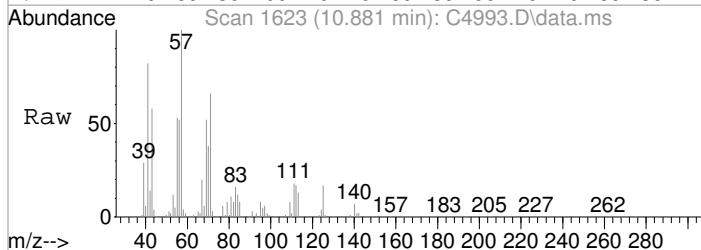
#84  
 Isopropylbenzene  
 Concen: 0.33 ug/L  
 RT: 10.607 min Scan# 1578  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

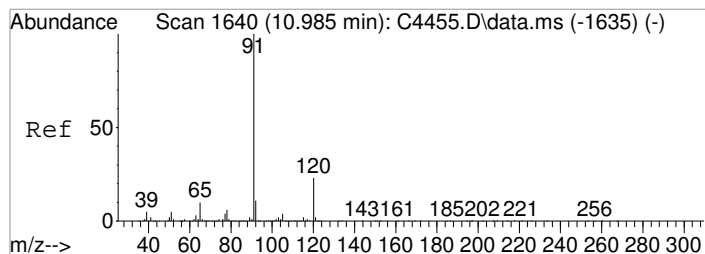
Tgt Ion	Resp	Lower	Upper
105	3114		
120	24.2	6.2	46.2
106	6.8	0.0	28.5



#88  
 1,1,2,2-Tetrachloroethane  
 Concen: 1.21 ug/L  
 RT: 10.881 min Scan# 1623  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

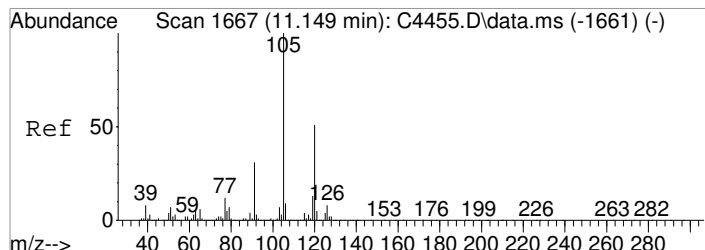
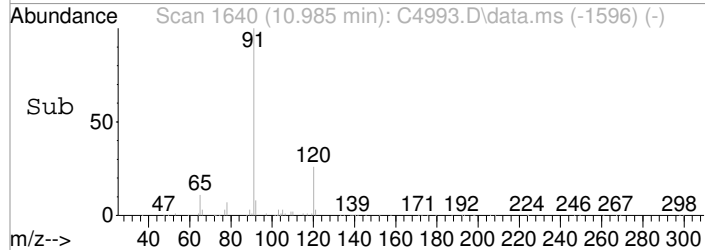
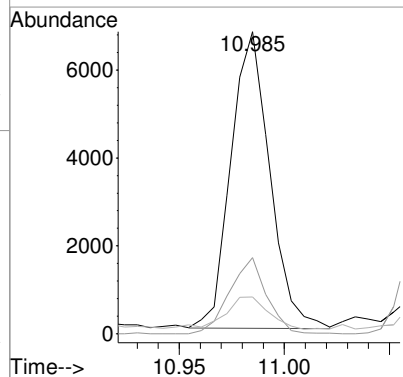
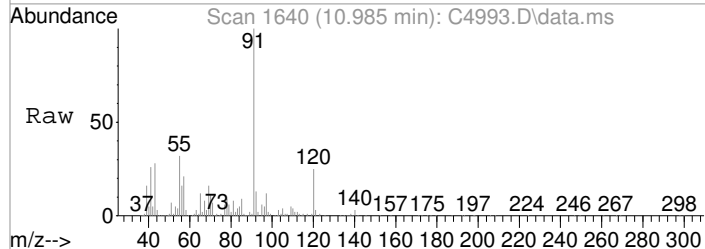
Tgt Ion	Resp	Lower	Upper
83	2262		
85	50.1	44.0	84.0
131	0.0	0.0	30.2





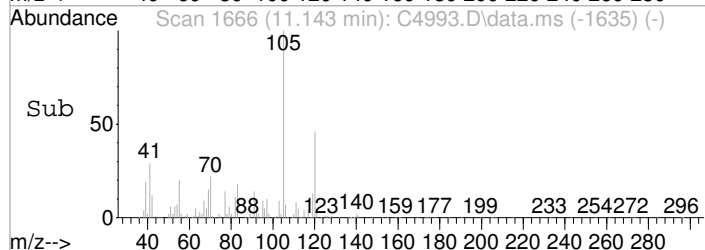
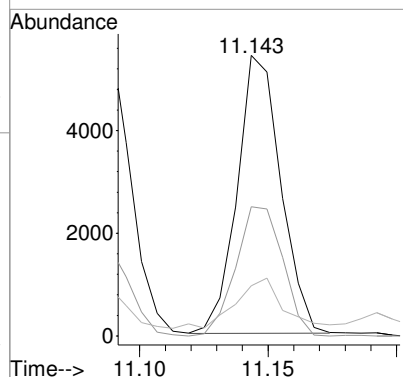
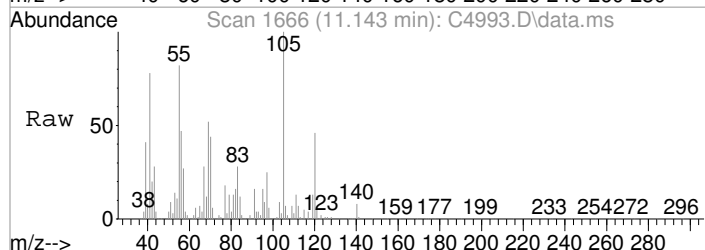
#91  
 n-Propylbenzene  
 Concen: 1.13 ug/L  
 RT: 10.985 min Scan# 1640  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

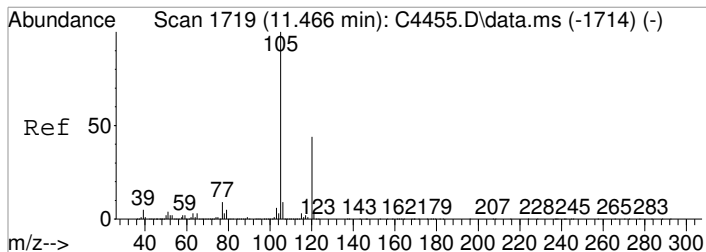
Tgt Ion	Resp	Lower	Upper
91	100		
120	25.2	3.2	43.2
65	12.2	0.0	30.2



#94  
 1,3,5-Trimethylbenzene  
 Concen: 1.15 ug/L  
 RT: 11.143 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

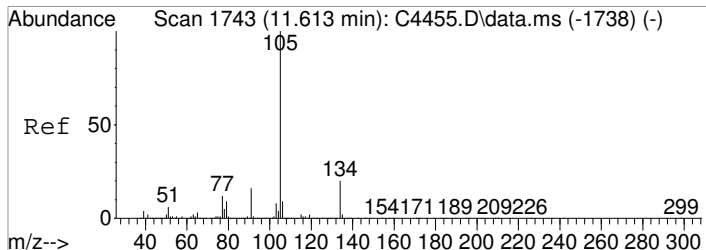
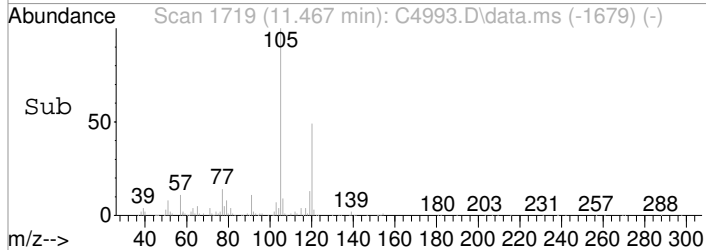
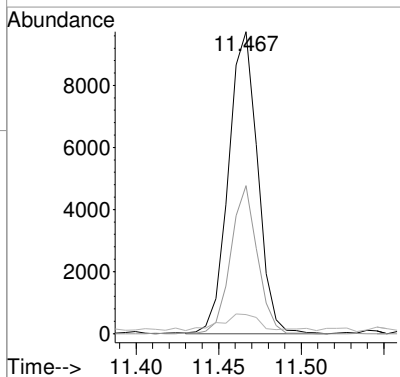
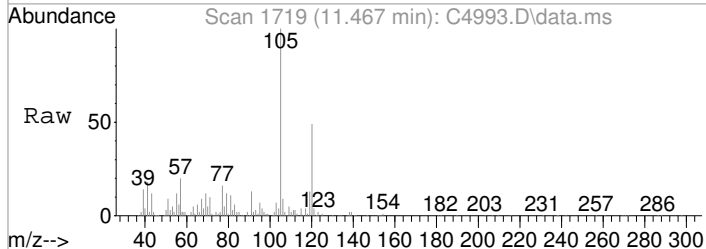
Tgt Ion	Resp	Lower	Upper
105	100		
120	46.1	30.5	70.5
77	17.9	0.0	32.4





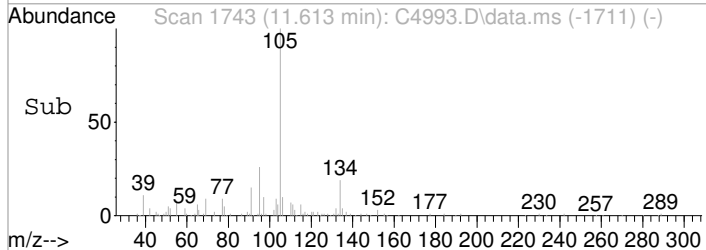
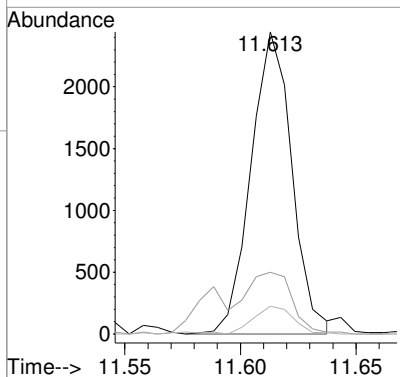
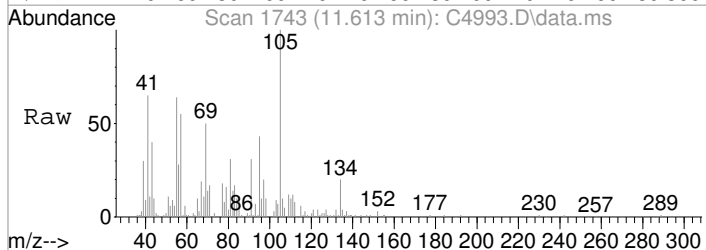
#96  
 1,2,4-Trimethylbenzene  
 Concen: 2.11 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

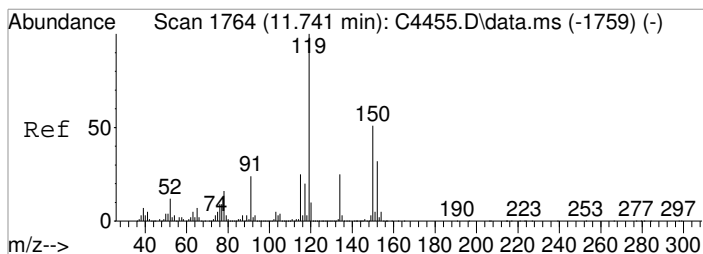
Tgt Ion	Resp	Lower	Upper
105	11975		
120	49.0	26.3	66.3
65	6.4	0.0	24.4



#97  
 sec-Butylbenzene  
 Concen: 0.42 ug/L  
 RT: 11.613 min Scan# 1743  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

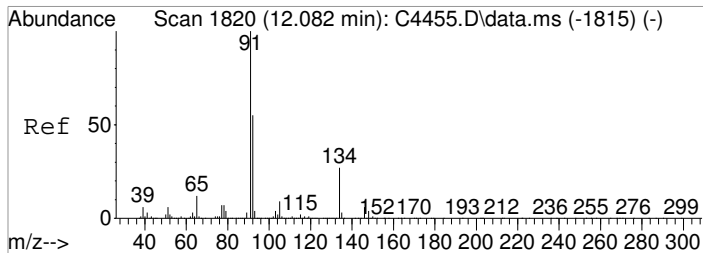
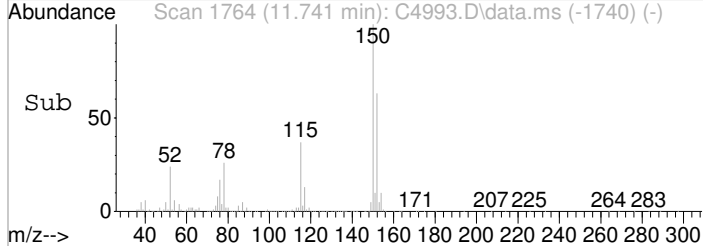
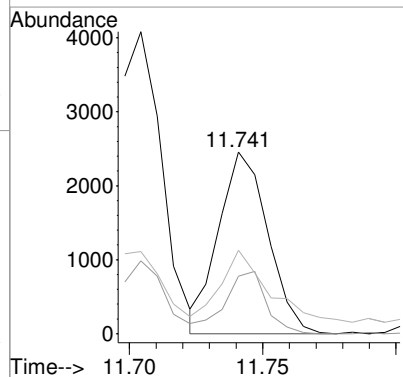
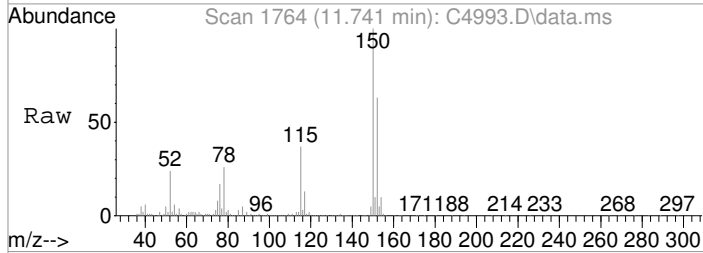
Tgt Ion	Resp	Lower	Upper
105	3001		
134	20.5	0.0	39.9
103	9.2	0.0	28.1





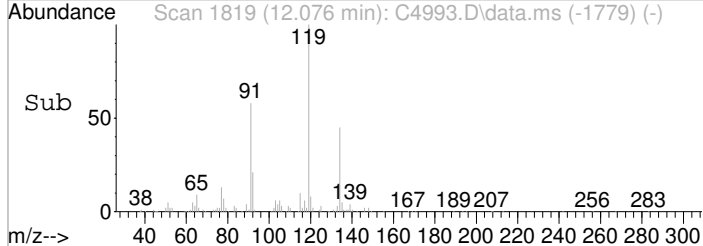
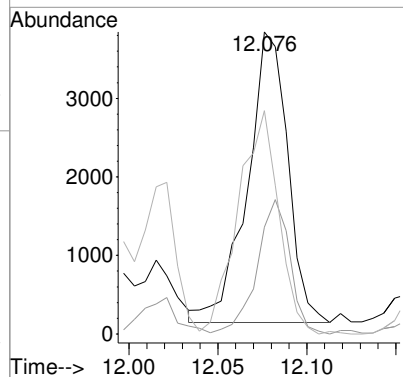
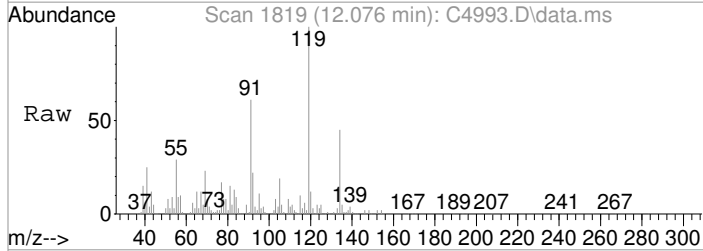
#98  
 p-Isopropyltoluene  
 Concen: 0.51 ug/L m  
 RT: 11.741 min Scan# 1764  
 Delta R.T. 0.000 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

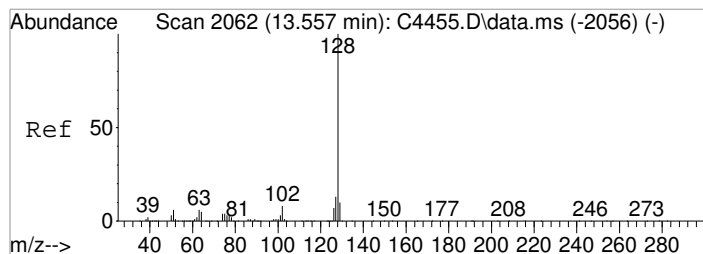
Tgt Ion	Resp	Lower	Upper
119	100		
134	31.7	4.9	44.9
91	45.9	3.5	43.5#



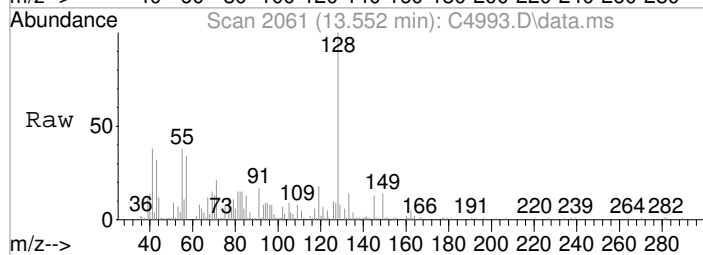
#101  
 n-Butylbenzene  
 Concen: 1.03 ug/L  
 RT: 12.076 min Scan# 1819  
 Delta R.T. -0.006 min  
 Lab File: C4993.D  
 Acq: 16 Feb 2018 12:38 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	35.3	34.9	74.9
134	73.9	6.7	46.7#

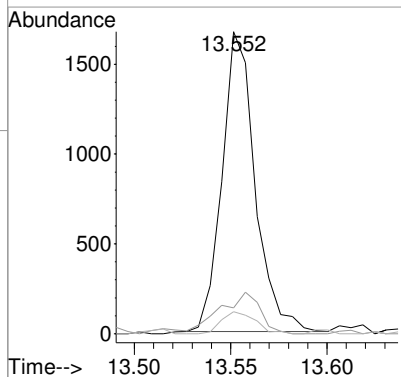
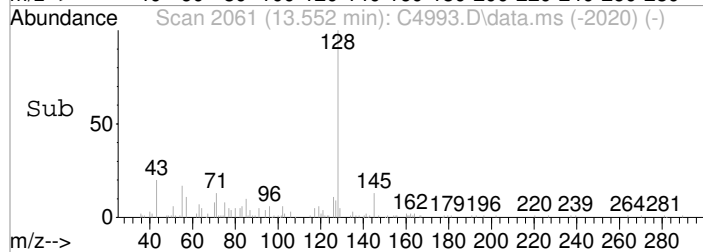




#107  
Naphthalen  
Concen: 0.32 ug/L  
RT: 13.552 min Scan# 2061  
Delta R.T. -0.006 min  
Lab File: C4993.D  
Acq: 16 Feb 2018 12:38 pm



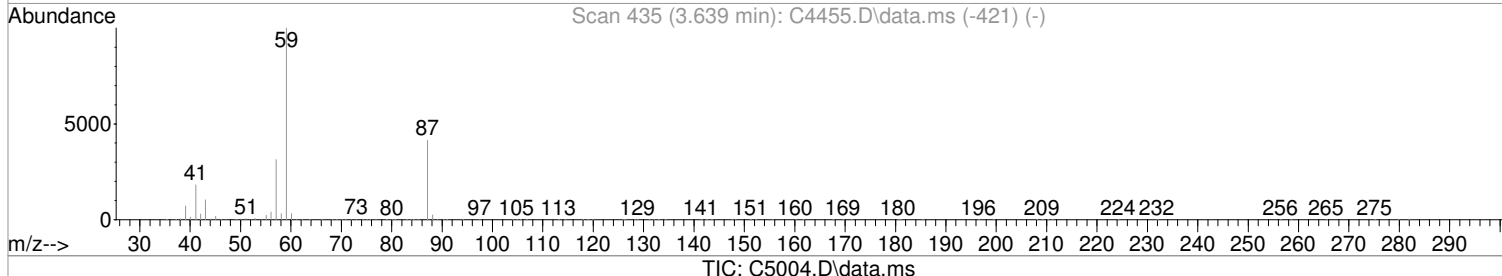
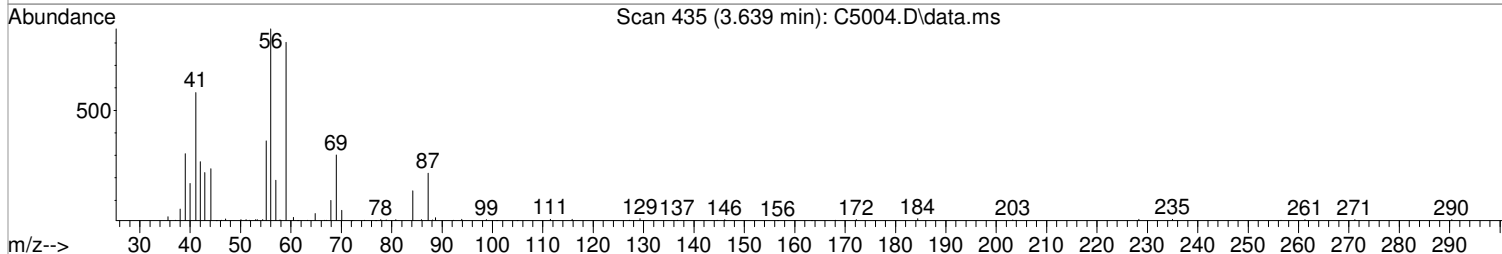
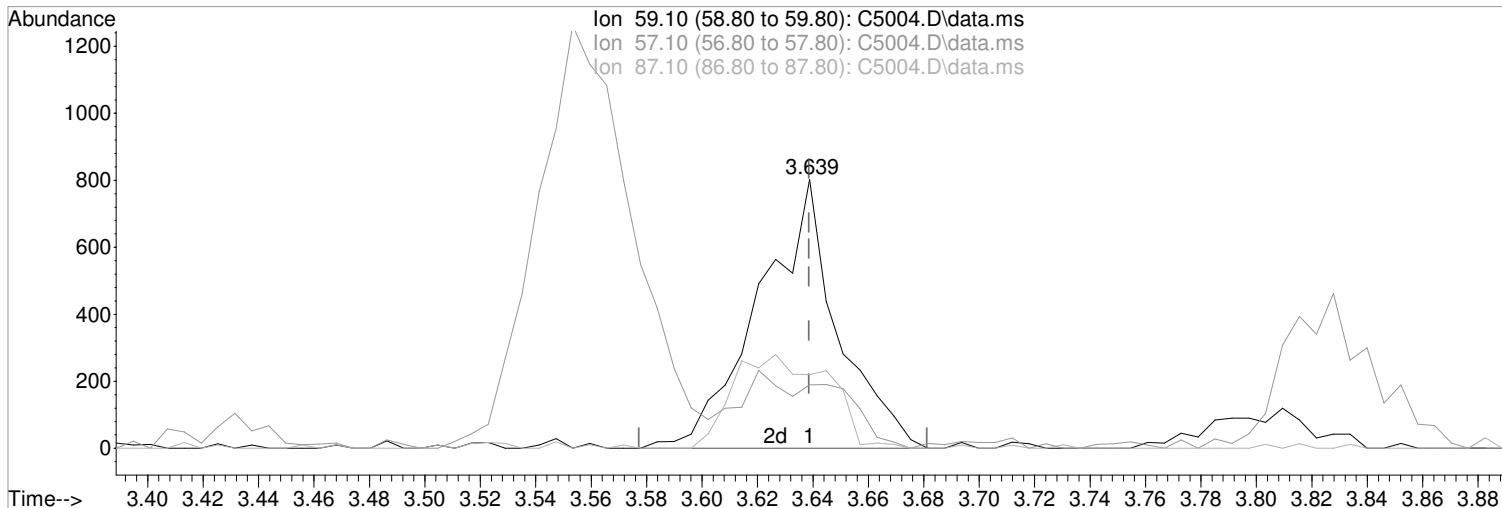
Tgt Ion	Resp	Lower	Upper
128	100		
127	8.6	0.0	33.4
102	7.3	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C5004.D  
Acq On : 16 Feb 2018 4:52 pm  
Operator : F. NAEGLER  
Sample : R1801334-004|0.73  
Misc : DAY 12666 T4  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 11:46:03 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(31) ETBE

3.639min (+0.000) 0.23 ug/L m

response 1576

Ion	Exp%	Act%
59.10	100	100
57.10	31.50	23.54
87.10	41.40	27.40
0.00	0.00	0.00

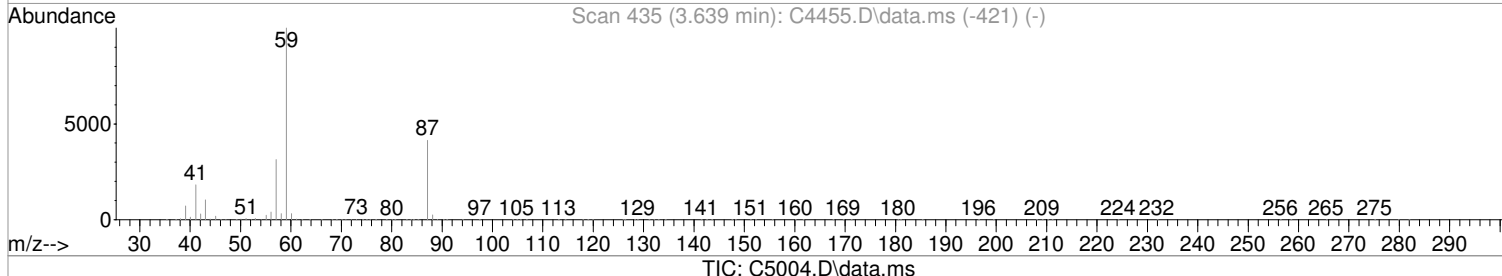
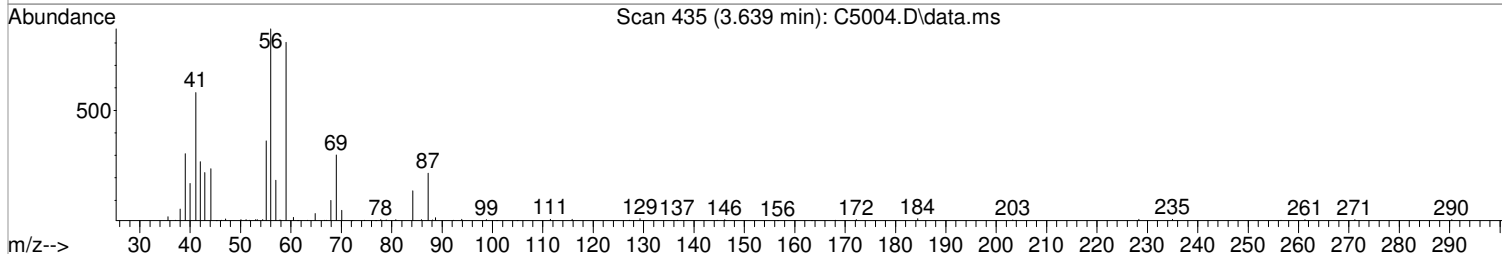
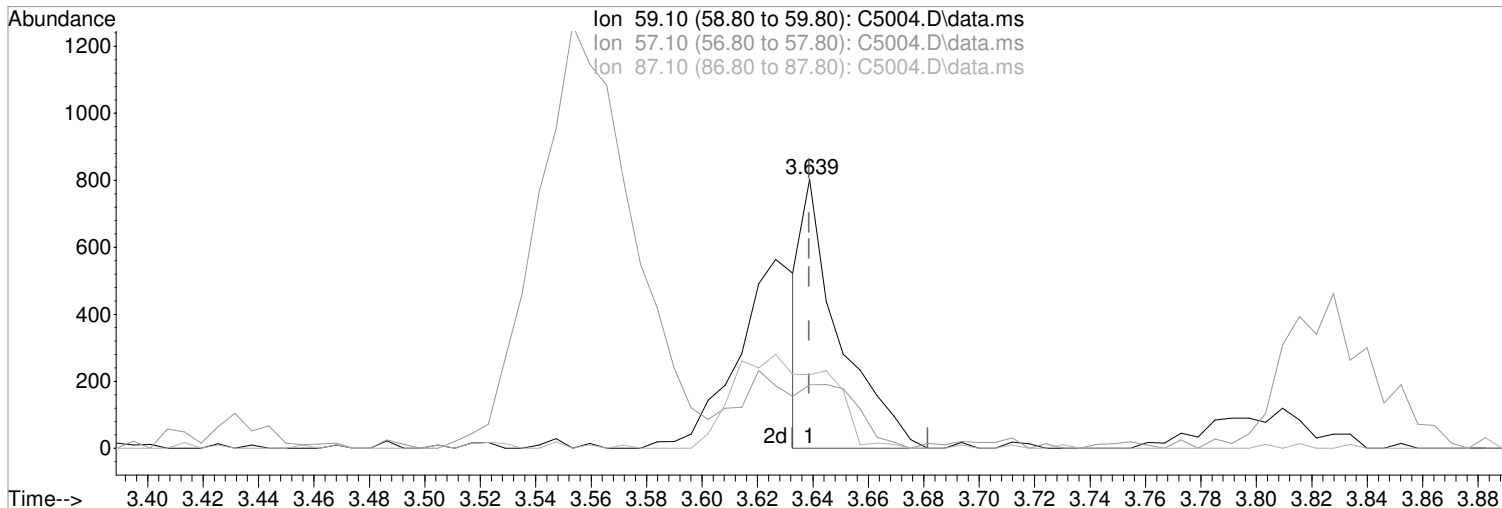
Manual Integration:  
After  
Poor integration.  
02/17/18



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C5004.D  
Acq On : 16 Feb 2018 4:52 pm  
Operator : F. NAEGLER  
Sample : R1801334-004|0.73  
Misc : DAY 12666 T4  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 11:46:03 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(31) ETBE

3.639min (+0.000) 0.11 ug/L

response 744

Ion	Exp%	Act%
59.10	100	100
57.10	31.50	25.16
87.10	41.40	27.40
0.00	0.00	0.00

Manual Integration:

Before

02/17/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C5004.D  
 Acq On : 16 Feb 2018 4:52 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-004|0.73 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 16 Sample Multiplier: 1

RA

Quant Time: Feb 17 12:36:41 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

SURR passes but low

sample has carryover from previous sample

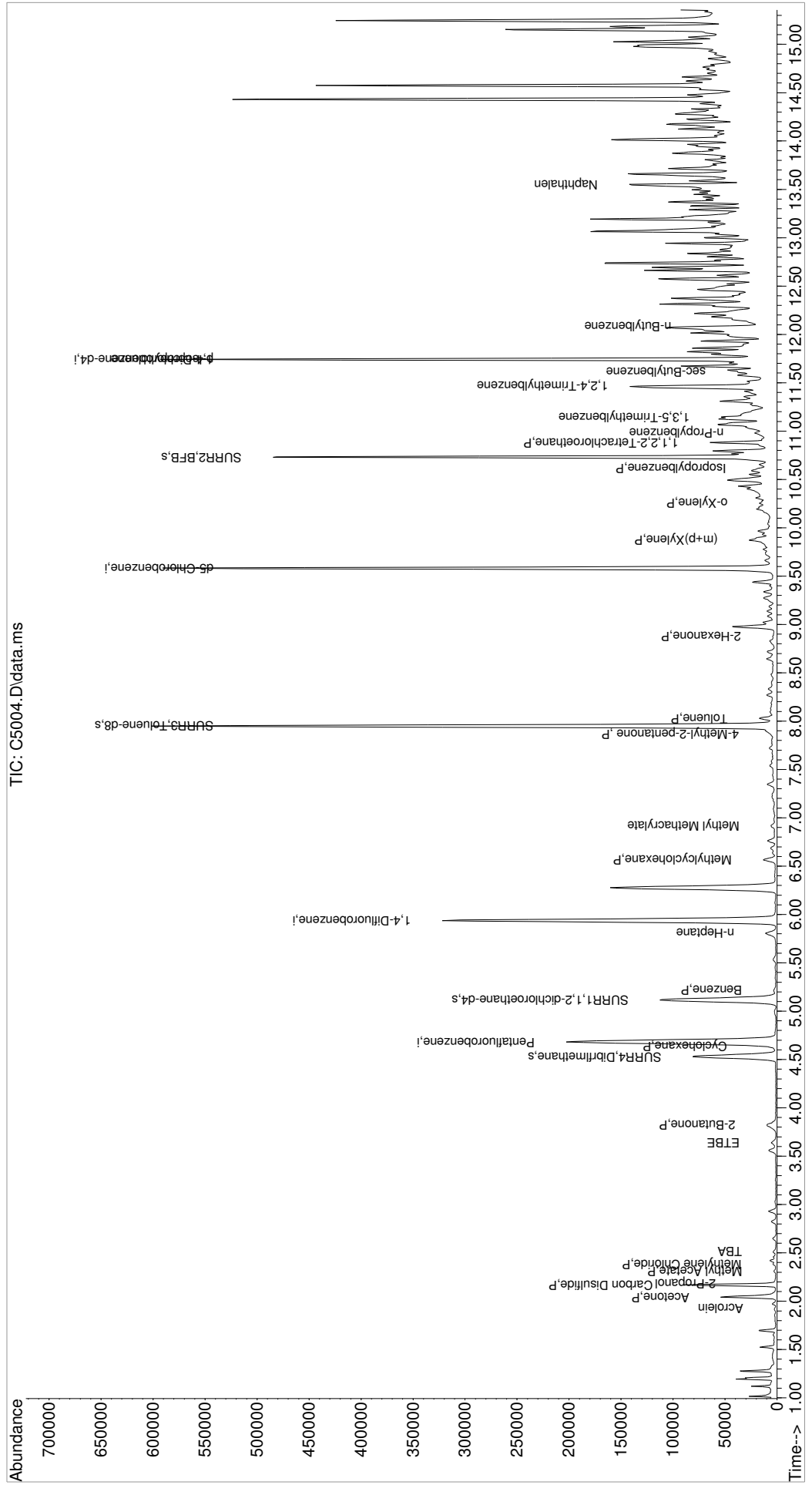
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	use for confirmation only
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.681	168	201448	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	308767	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	262639	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	106160	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) SURR4,Dibrflmethane	4.529	113	64217	33.40	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery =	66.80%			
47) SURR1,1,2-dichloroetha...	5.114	65	112952	49.04	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery =	98.08%			
64) SURR3,Toluene-d8	7.949	98	367432	49.97	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery =	99.94%			
69) SURR2,BFB	10.729	95	125959	42.46	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery =	84.92%			
<b>Target Compounds</b>							
						Qvalue	
12) Acrolein	1.926	56	560	1.28	ug/L	# 68	
15) Acetone	2.042	43	56465	61.86	ug/L	96	
16) 2-Propanol	2.182	45	2255	10.83	ug/L	81	
18) Carbon Disulfide	2.170	76	82865	13.75	ug/L	99	
21) Methyl Acetate	2.310	43	2214	1.27	ug/L	87	
22) Methylene Chloride	2.383	84	721	0.34	ug/L	93	
23) TBA	2.517	59	1915	5.16	ug/L	97	
31) ETBE	3.639	59	1576m	0.23	ug/L		
34) 2-Butanone	3.828	43	11769	9.53	ug/L	89	
43) Cyclohexane	4.639	41	1889	0.91	ug/L	97	
48) Benzene	5.218	78	2403	0.30	ug/L	98	
51) n-Heptane	5.809	43	9559	4.05	ug/L	# 48	
54) Methylcyclohexane	6.565	55	4508	1.53	ug/L	85	
58) Methyl Methacrylate	6.919	69	985	0.56	ug/L	# 60	
63) 4-Methyl-2-pentanone	7.864	43	1605	0.64	ug/L	87	
65) Toluene	8.028	91	7574	0.86	ug/L	99	
72) 2-Hexanone	8.876	43	778	0.45	ug/L	94	
80) (m+p)Xylene	9.875	106	4137	1.10	ug/L	97	
81) o-Xylene	10.253	106	932	0.25	ug/L	# 64	
84) Isopropylbenzene	10.613	105	2706	0.28	ug/L	86	
88) 1,1,2,2-Tetrachloroethane	10.881	83	2032	1.00	ug/L	# 72	
91) n-Propylbenzene	10.985	91	5417	0.65	ug/L	96	
94) 1,3,5-Trimethylbenzene	11.143	105	13669	2.25	ug/L	95	
96) 1,2,4-Trimethylbenzene	11.466	105	46352	7.53	ug/L	97	
97) sec-Butylbenzene	11.613	105	5549	0.71	ug/L	97	
98) p-Isopropyltoluene	11.741	119	6050	0.90	ug/L	86	
101) n-Butylbenzene	12.082	91	13579	2.21	ug/L	# 75	
107) Naphthalen	13.551	128	31761	4.77	ug/L	98	

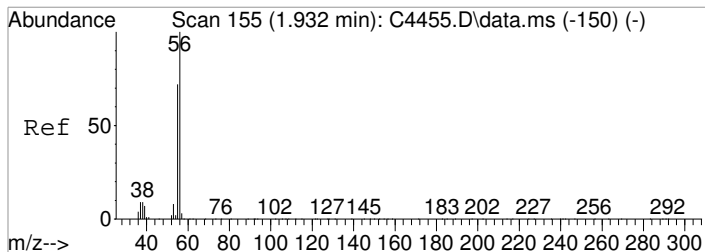
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\021618\  
 Data File : C5004.D  
 Acq On : 16 Feb 2018 4:52 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-004|0.73  
 Misc : DAY 12666 T4  
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

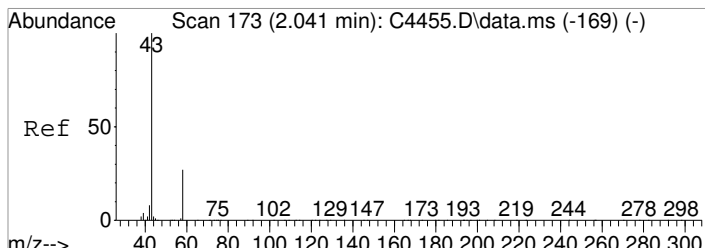
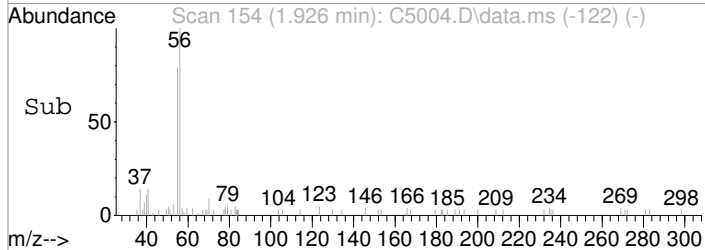
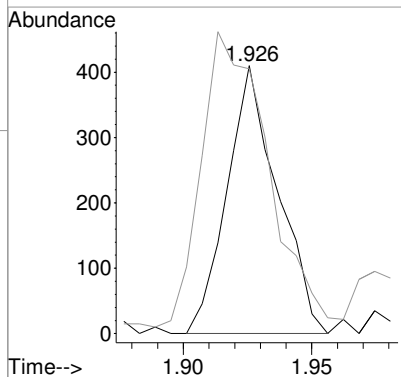
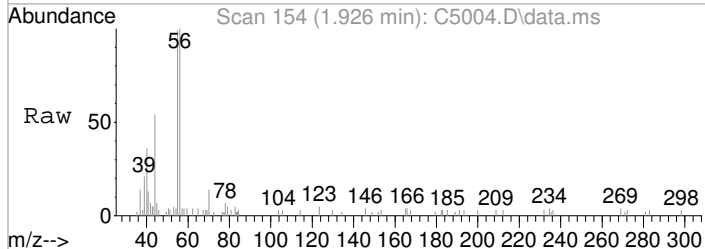
Quant Time: Feb 17 12:36:41 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





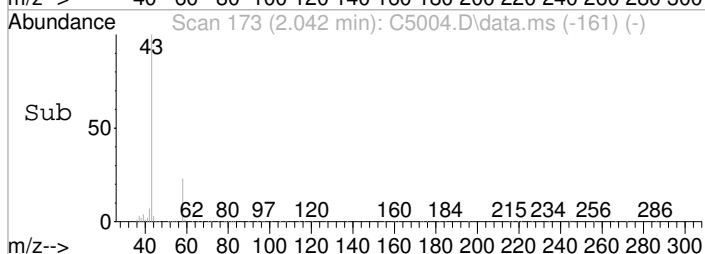
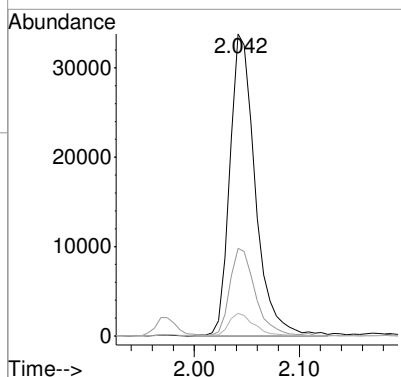
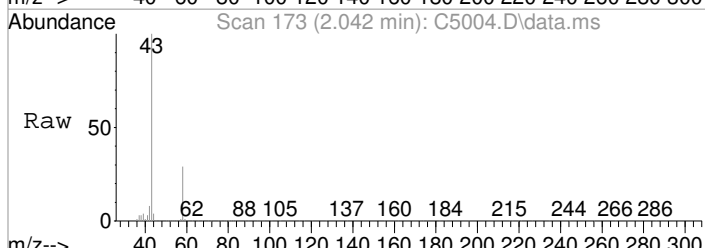
#12  
 Acrolein  
 Concen: 1.28 ug/L  
 RT: 1.926 min Scan# 154  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

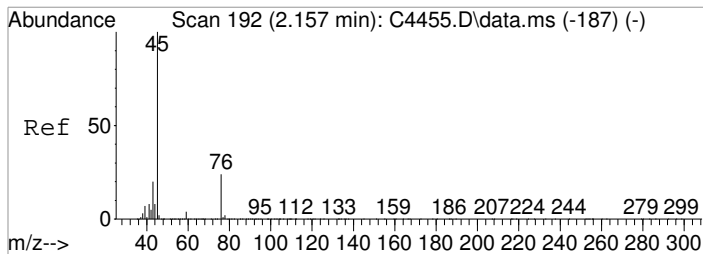
Tgt Ion	Resp	Lower	Upper
56	100		
55	98.8	52.3	92.3#



#15  
 Acetone  
 Concen: 61.86 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. 0.001 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

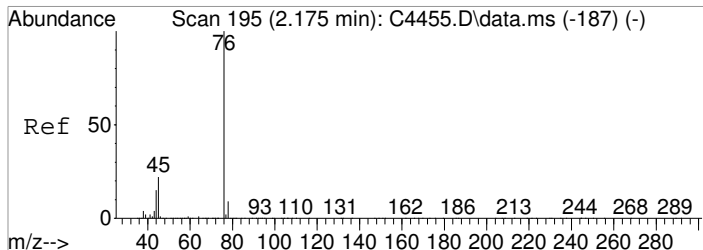
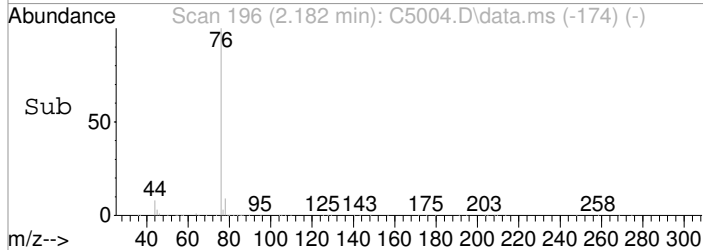
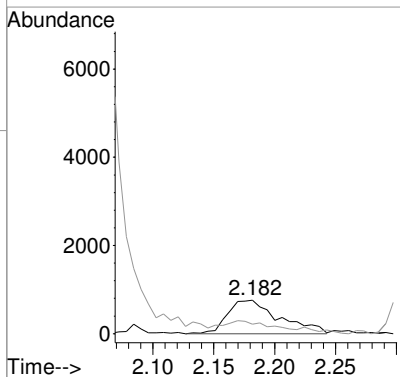
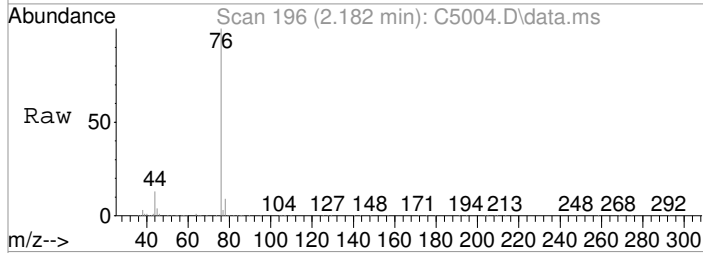
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.0	7.1	47.1
42	7.5	0.0	28.6





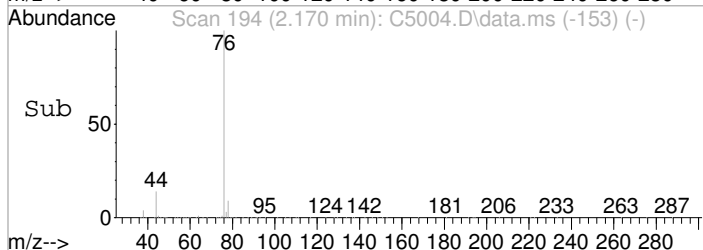
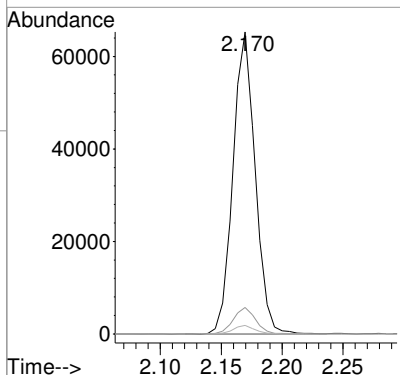
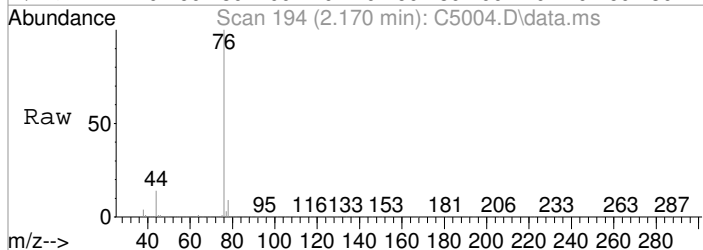
#16  
 2-Propanol  
 Concen: 10.83 ug/L  
 RT: 2.182 min Scan# 196  
 Delta R.T. 0.025 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

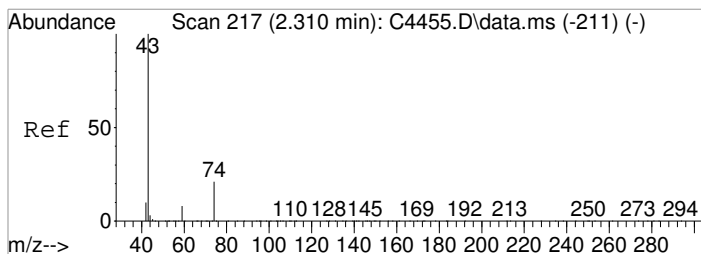
Tgt Ion	Resp	Lower	Upper
45	100		
43	28.7	0.1	40.1



#18  
 Carbon Disulfide  
 Concen: 13.75 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

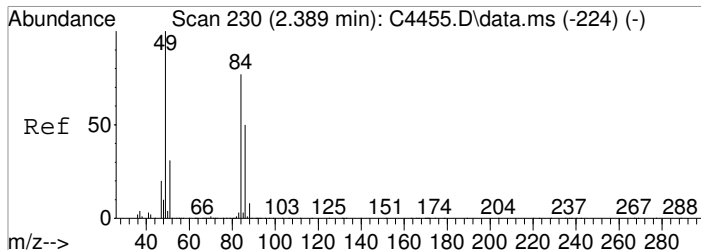
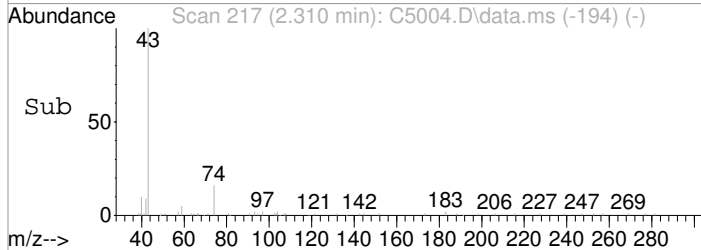
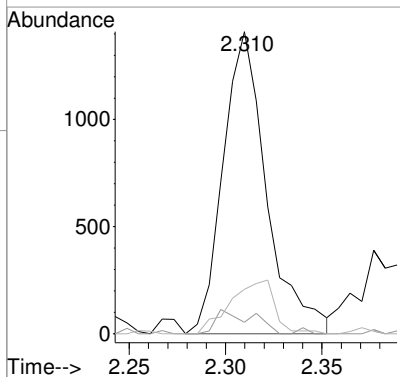
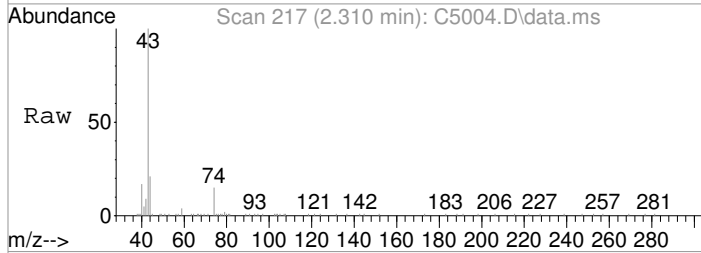
Tgt Ion	Resp	Lower	Upper
76	100		
78	8.8	0.0	28.9
77	2.8	0.0	22.4





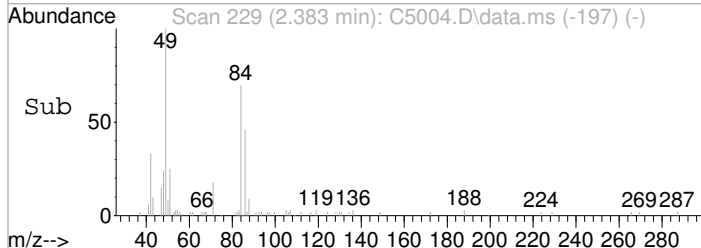
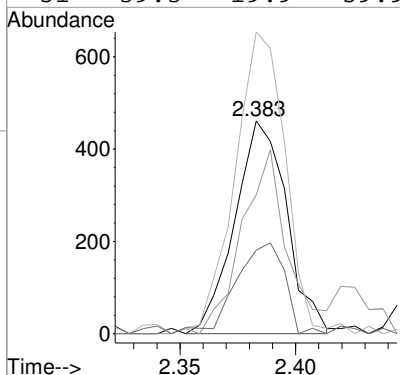
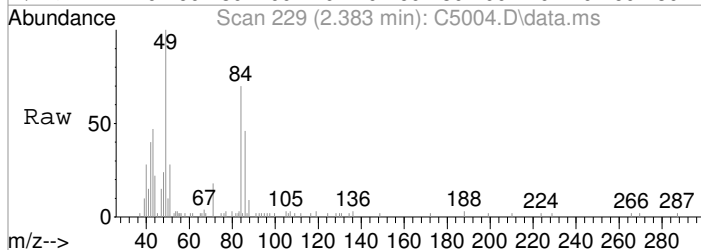
#21  
 Methyl Acetate  
 Concen: 1.27 ug/L  
 RT: 2.310 min Scan# 217  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

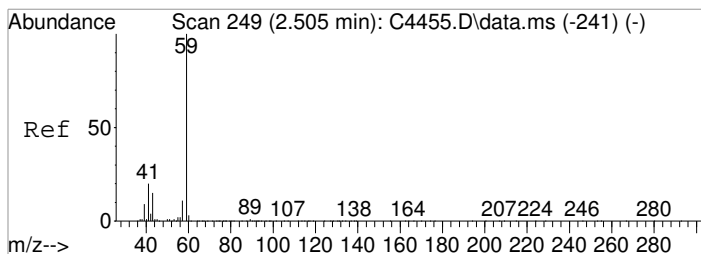
Tgt Ion	Resp	Lower	Upper
43	100		
59	3.8	0.0	27.7
74	14.7	1.0	41.0



#22  
 Methylene Chloride  
 Concen: 0.34 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

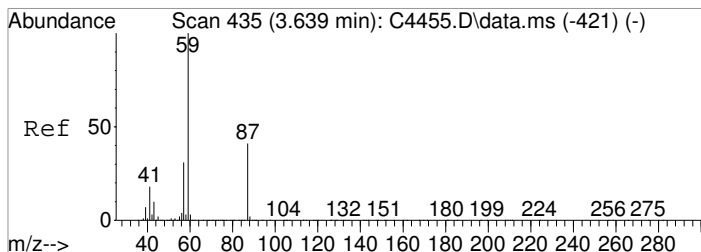
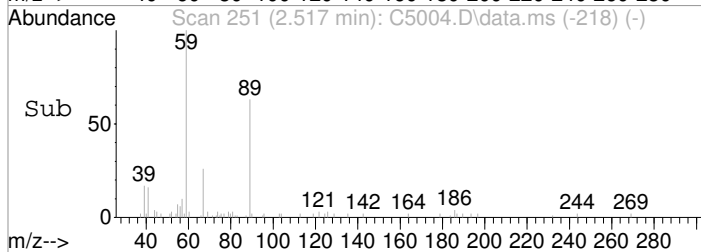
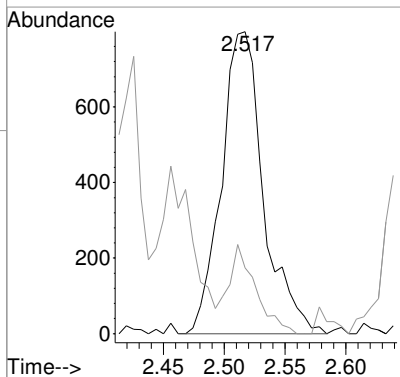
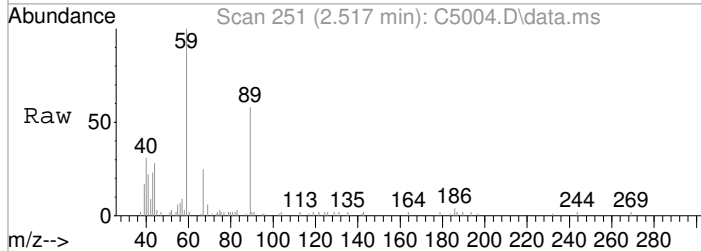
Tgt Ion	Resp	Lower	Upper
84	100		
86	65.3	43.9	83.9
49	141.9	109.1	149.1
51	39.3	19.9	59.9





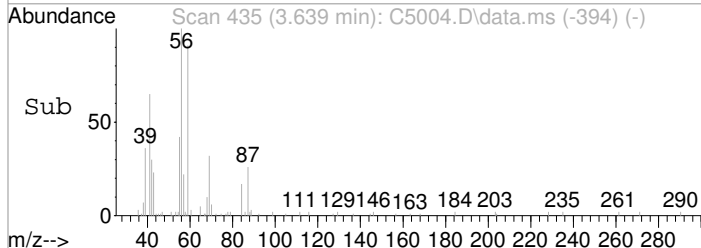
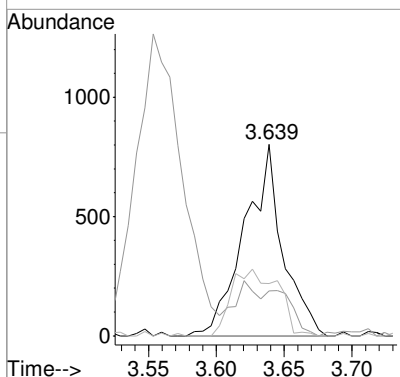
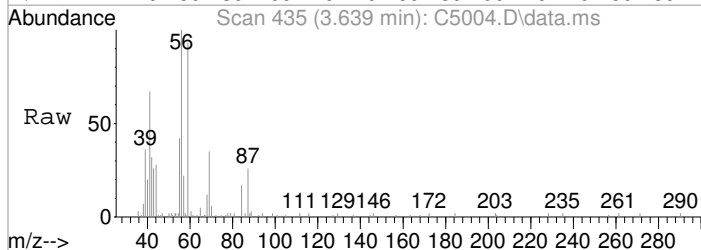
#23  
 TBA  
 Concen: 5.16 ug/L  
 RT: 2.517 min Scan# 251  
 Delta R.T. 0.012 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

Tgt Ion	Resp	Lower	Upper
59	1915		
41	21.8	0.3	40.3

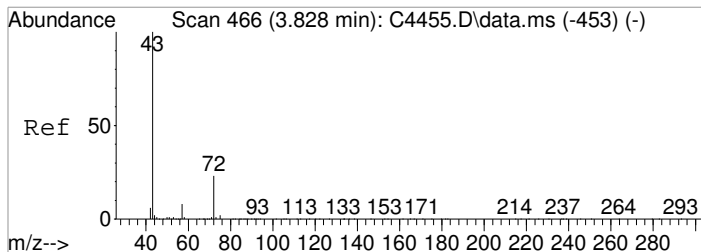


#31  
 ETBE  
 Concen: 0.23 ug/L m  
 RT: 3.639 min Scan# 435  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

Tgt Ion	Resp	Lower	Upper
59	1576		
57	23.5	11.5	51.5
87	27.4	21.4	61.4

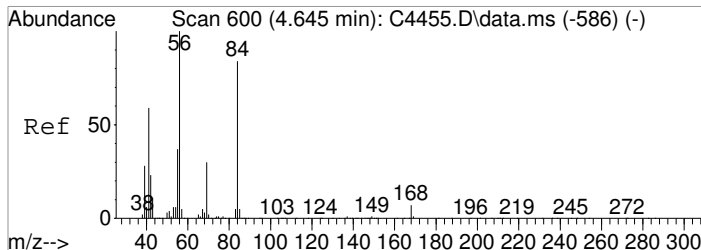
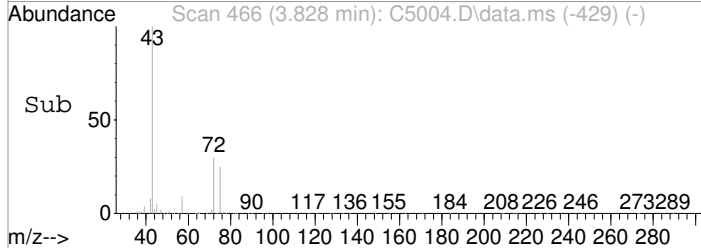
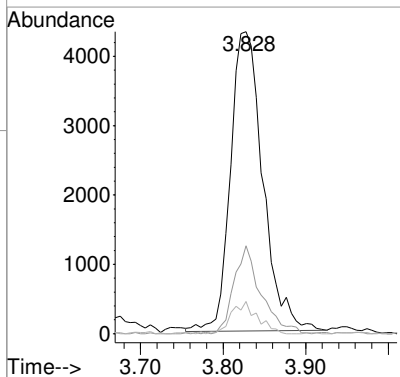
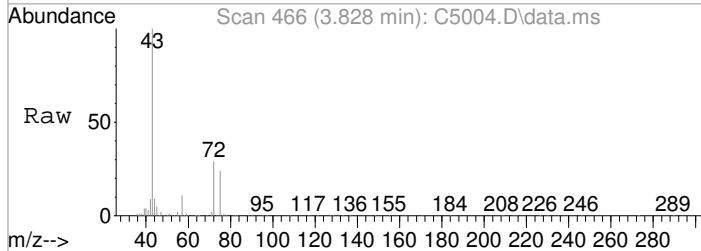






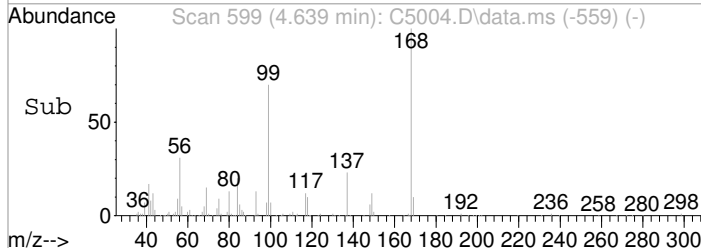
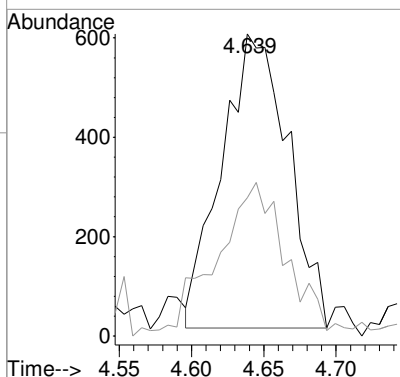
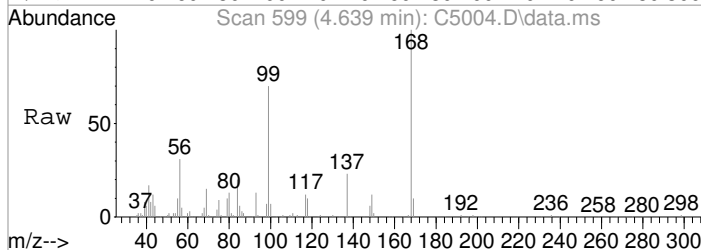
#34  
 2-Butanone  
 Concen: 9.53 ug/L  
 RT: 3.828 min Scan# 466  
 Delta R.T. 0.001 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

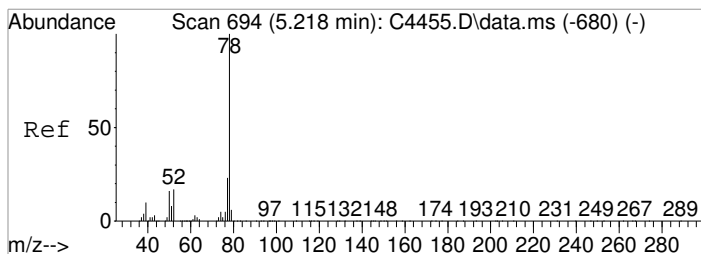
Tgt Ion	Resp	Lower	Upper
43	11769		
72	29.1	3.3	43.3
57	10.6	0.0	28.0



#43  
 Cyclohexane  
 Concen: 0.91 ug/L  
 RT: 4.639 min Scan# 599  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

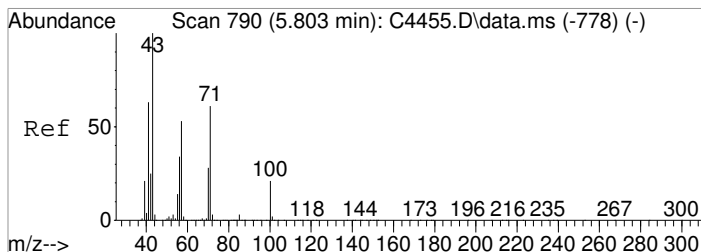
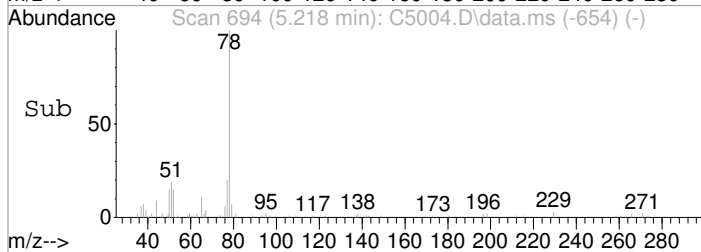
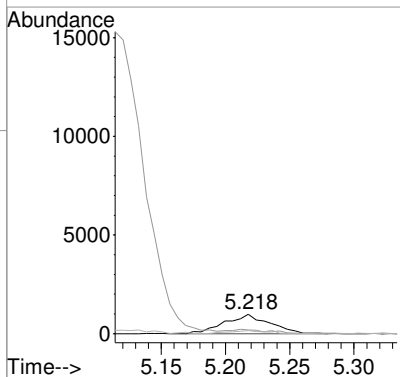
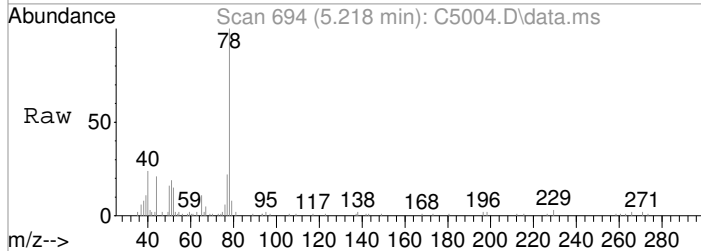
Tgt Ion	Resp	Lower	Upper
41	1889		
39	45.7	28.0	68.0





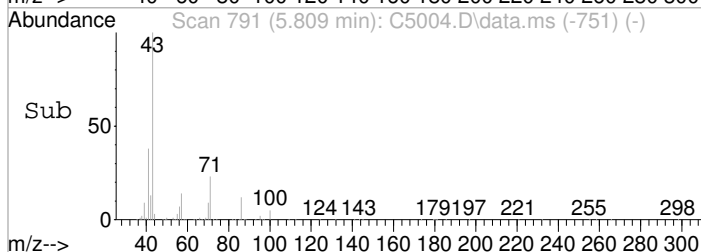
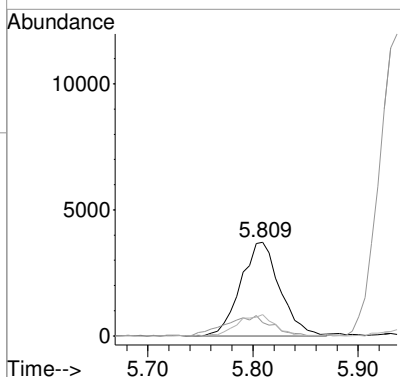
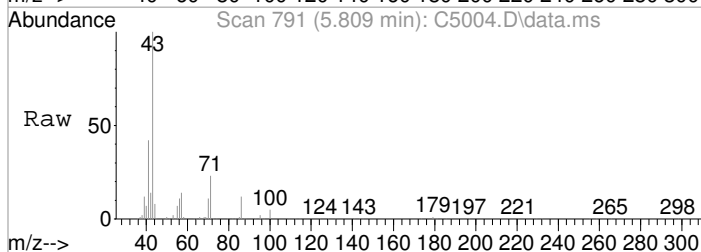
#48  
 Benzene  
 Concen: 0.30 ug/L  
 RT: 5.218 min Scan# 694  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

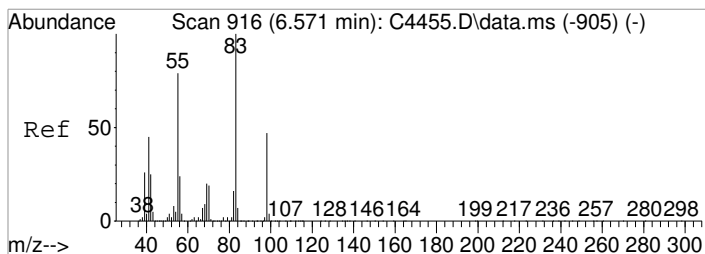
Tgt Ion	Resp	Lower	Upper
78	100		
51	18.6	0.0	37.4
52	17.1	0.0	36.9



#51  
 n-Heptane  
 Concen: 4.05 ug/L  
 RT: 5.809 min Scan# 791  
 Delta R.T. 0.007 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

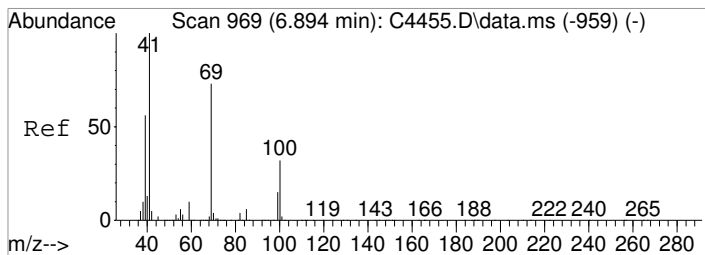
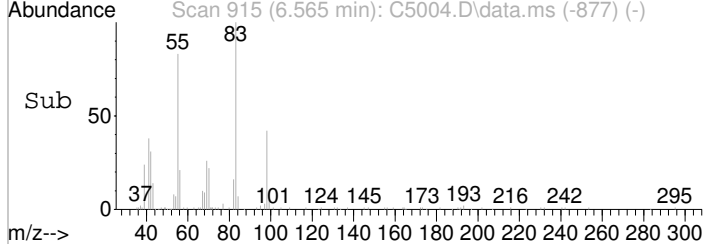
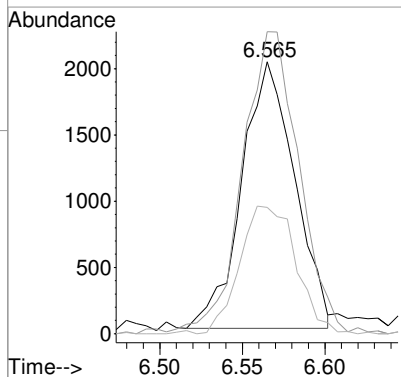
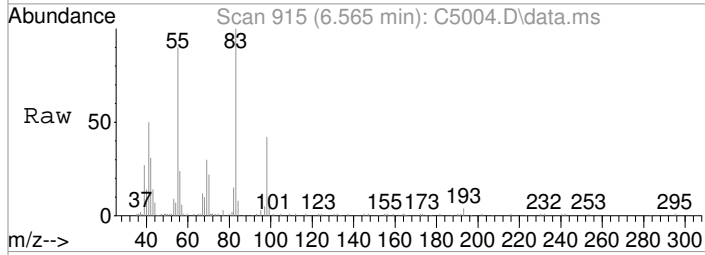
Tgt Ion	Resp	Lower	Upper
43	100		
57	14.1	33.3	73.3#
71	22.9	40.9	80.9#





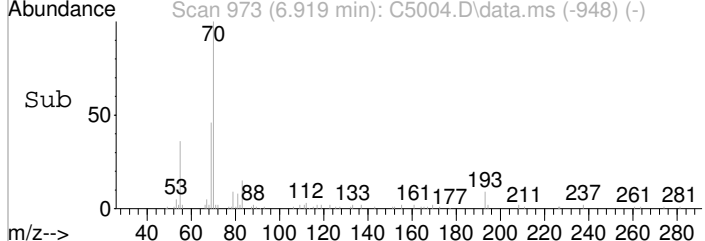
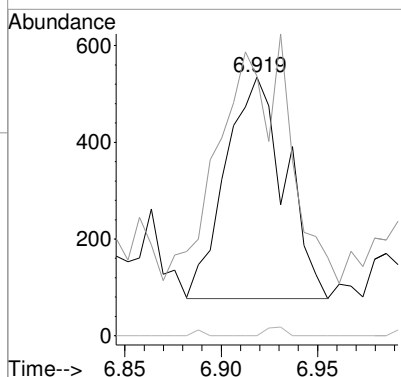
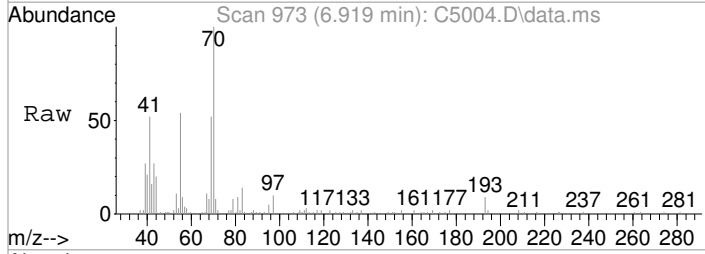
#54  
 Methylcyclohexane  
 Concen: 1.53 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

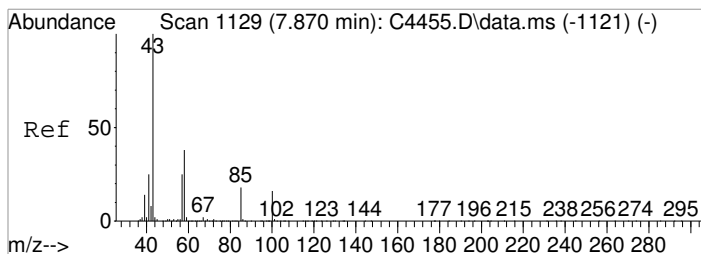
Tgt Ion	Resp	Lower	Upper
55	100		
83	111.1	106.2	146.2
98	46.5	39.7	79.7



#58  
 Methyl Methacrylate  
 Concen: 0.56 ug/L  
 RT: 6.919 min Scan# 973  
 Delta R.T. 0.024 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

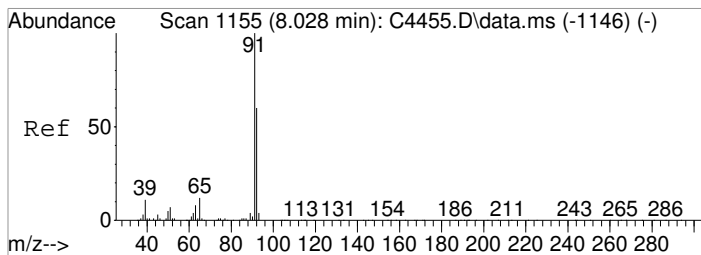
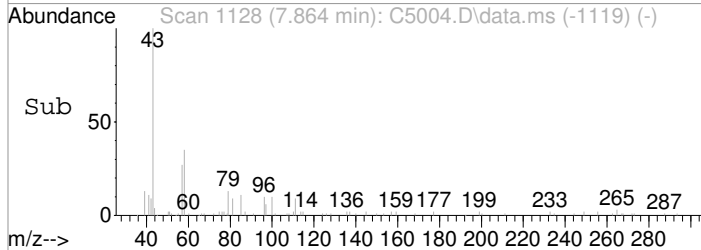
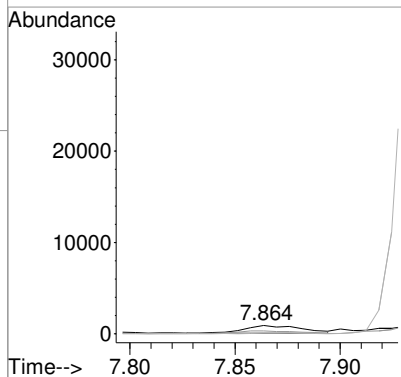
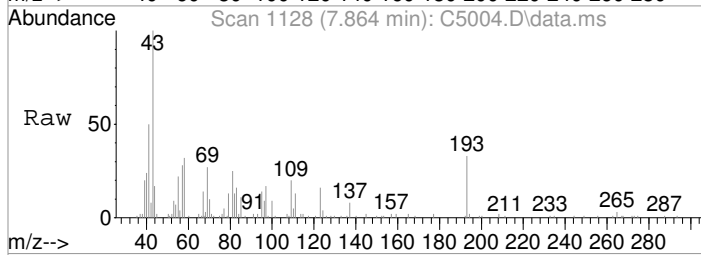
Tgt Ion	Resp	Lower	Upper
69	100		
41	100.4	118.0	158.0#
100	0.0	23.4	63.4#





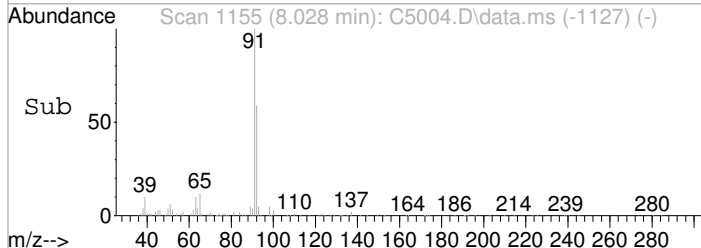
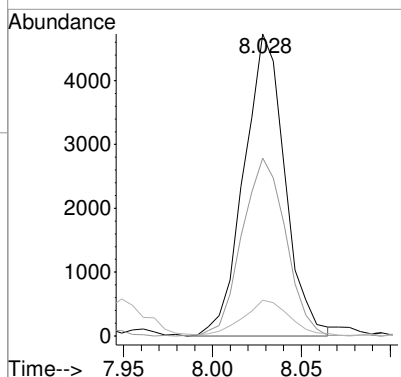
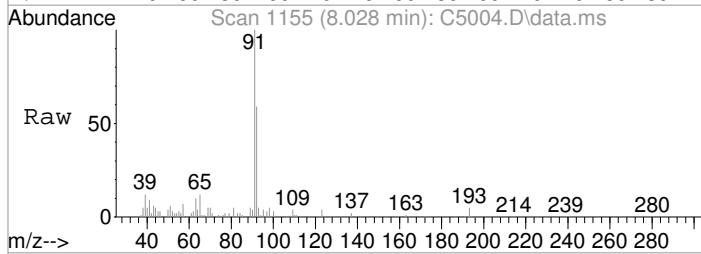
#63  
 4-Methyl-2-pentanone  
 Concen: 0.64 ug/L  
 RT: 7.864 min Scan# 1128  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

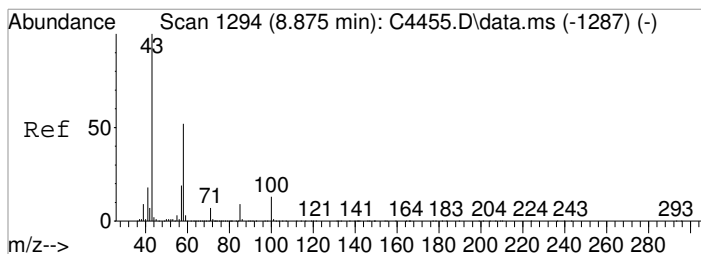
Tgt Ion	Resp	Lower	Upper
43	1605		
58	31.7	18.2	58.2
100	9.0	0.0	36.2



#65  
 Toluene  
 Concen: 0.86 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

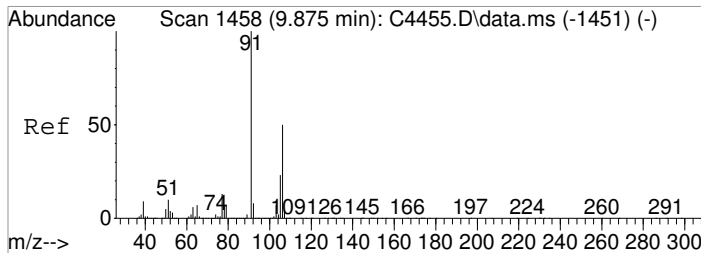
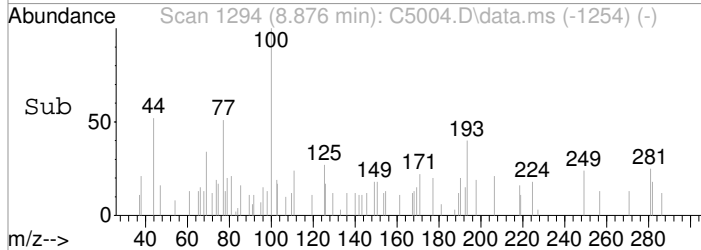
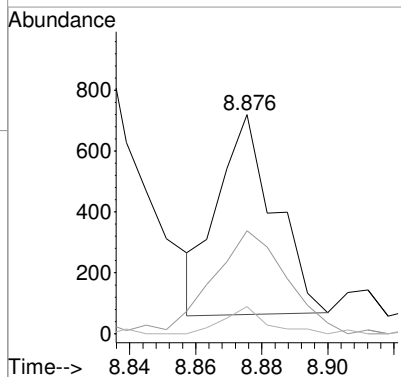
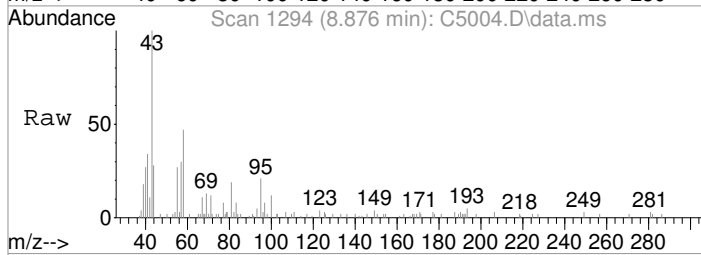
Tgt Ion	Resp	Lower	Upper
91	7574		
92	58.9	39.7	79.7
65	11.9	0.0	31.9





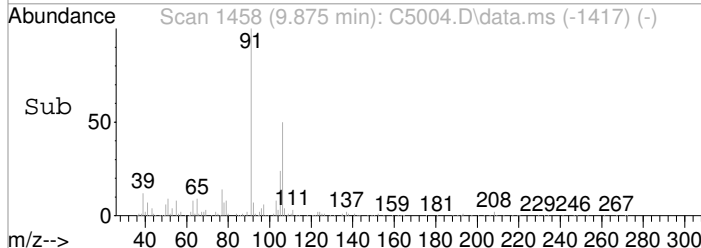
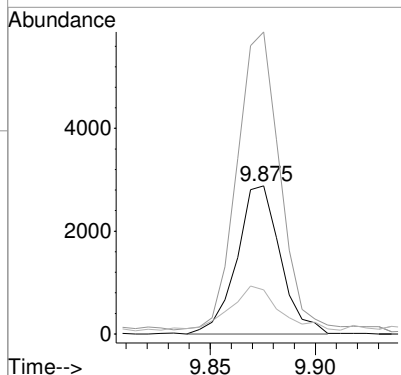
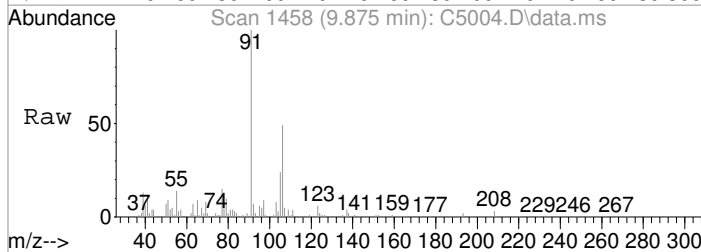
#72  
 2-Hexanone  
 Concen: 0.45 ug/L  
 RT: 8.876 min Scan# 1294  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

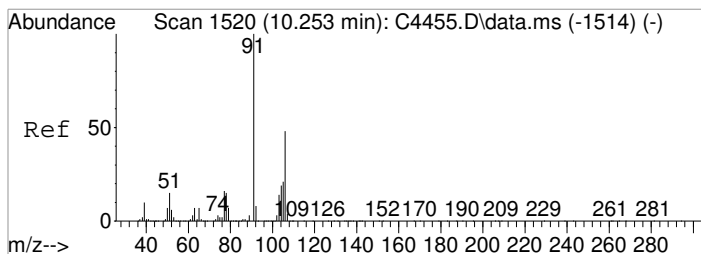
Tgt Ion	Resp	Lower	Upper
43	100		
58	46.9	32.2	72.2
100	12.4	0.0	32.9



#80  
 (m+p)Xylene  
 Concen: 1.10 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

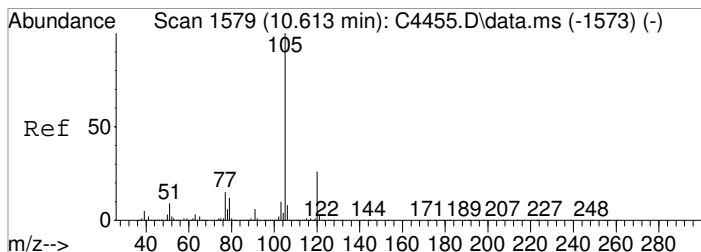
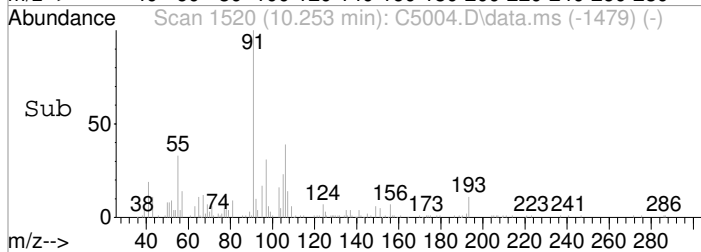
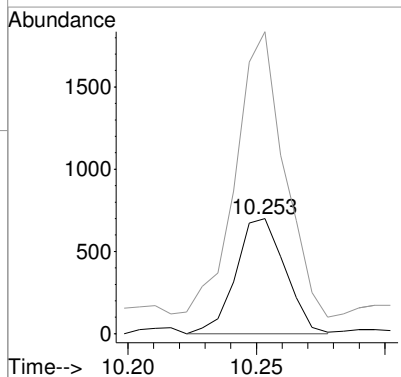
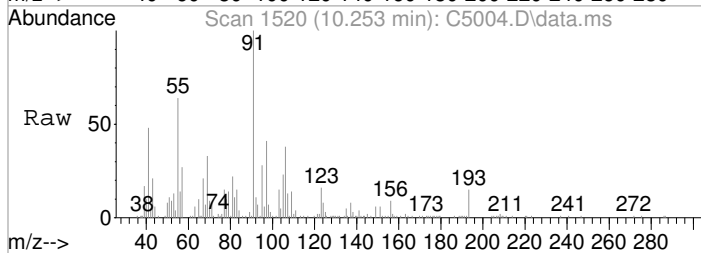
Tgt Ion	Resp	Lower	Upper
106	100		
91	203.9	180.9	220.9
77	29.8	5.7	45.7





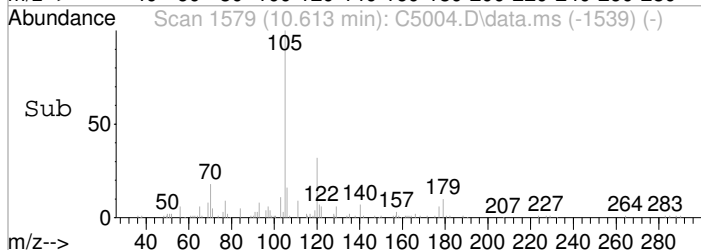
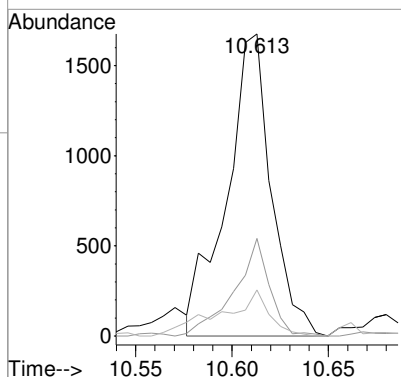
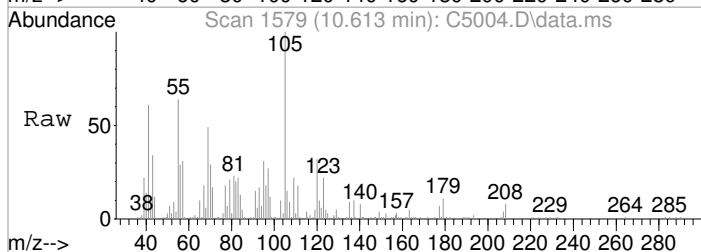
#81  
 o-Xylene  
 Concen: 0.25 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

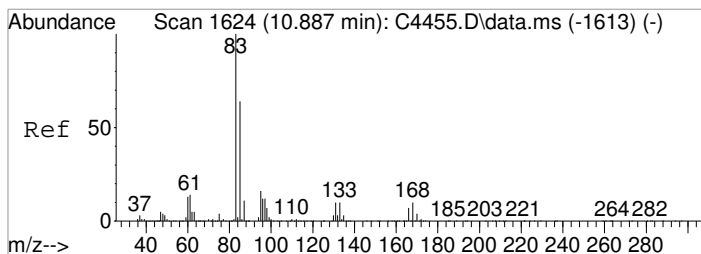
Tgt Ion	Resp	Lower	Upper
106	932		
91	262.7	187.6	227.6#



#84  
 Isopropylbenzene  
 Concen: 0.28 ug/L  
 RT: 10.613 min Scan# 1579  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

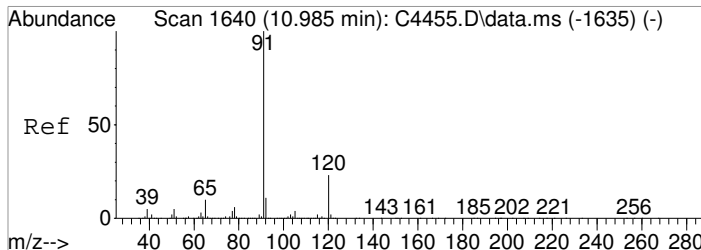
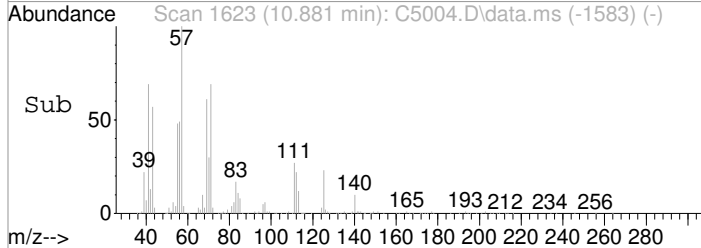
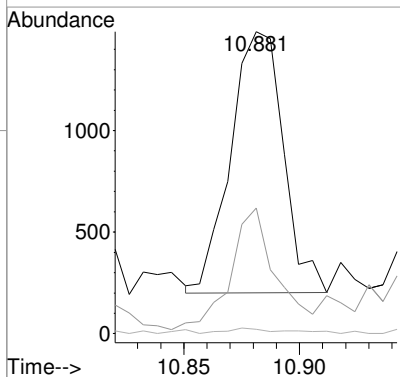
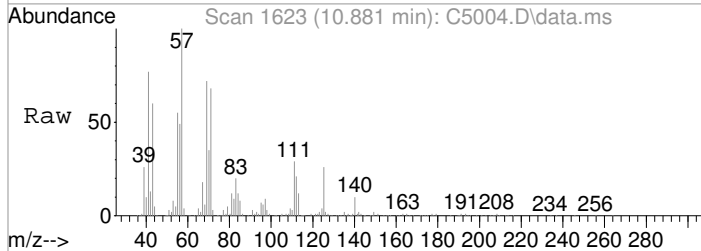
Tgt Ion	Resp	Lower	Upper
105	2706		
120	32.3	6.2	46.2
106	15.3	0.0	28.5





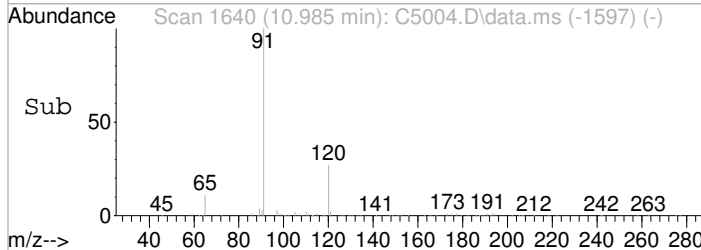
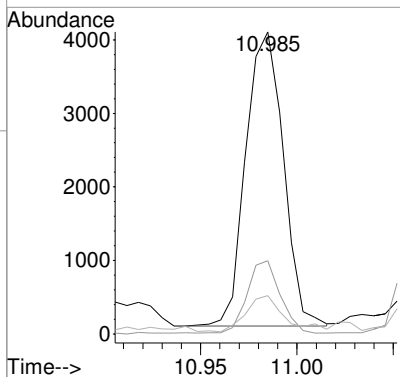
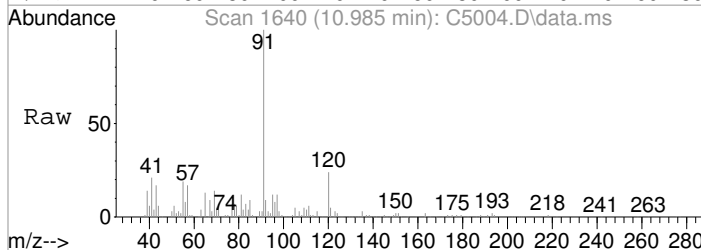
#88  
 1,1,2,2-Tetrachloroethane  
 Concen: 1.00 ug/L  
 RT: 10.881 min Scan# 1623  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

Tgt Ion	Resp	Lower	Upper
83	100		
85	41.6	44.0	84.0#
131	1.5	0.0	30.2

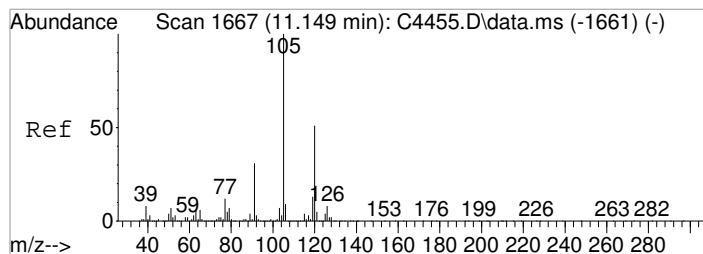


#91  
 n-Propylbenzene  
 Concen: 0.65 ug/L  
 RT: 10.985 min Scan# 1640  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

Tgt Ion	Resp	Lower	Upper
91	100		
120	24.2	3.2	43.2
65	12.7	0.0	30.2

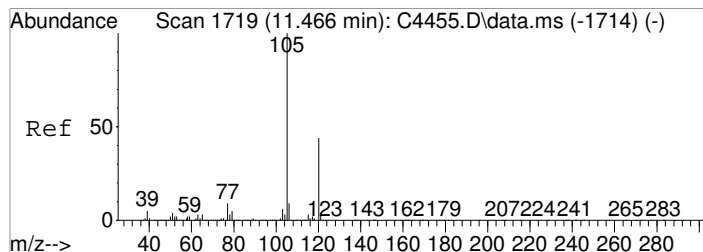
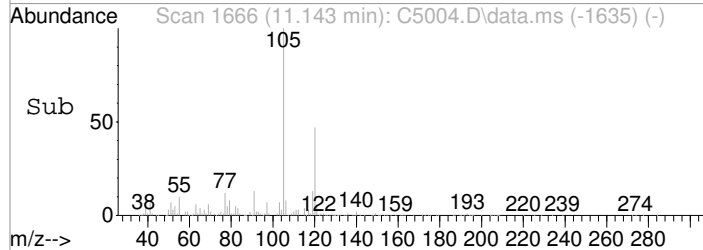
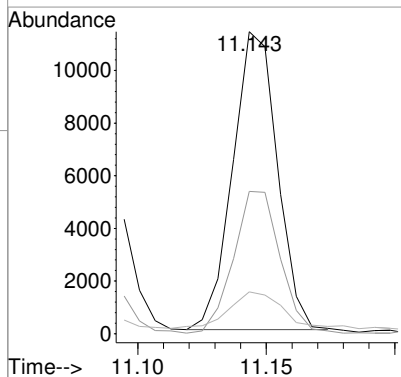
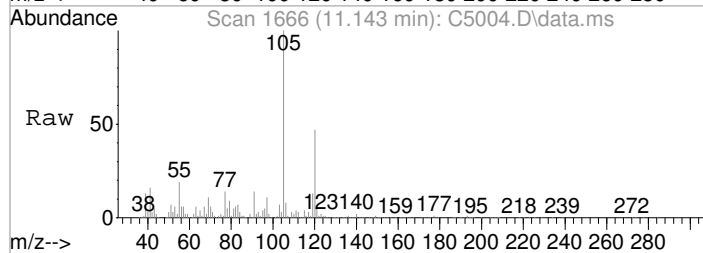






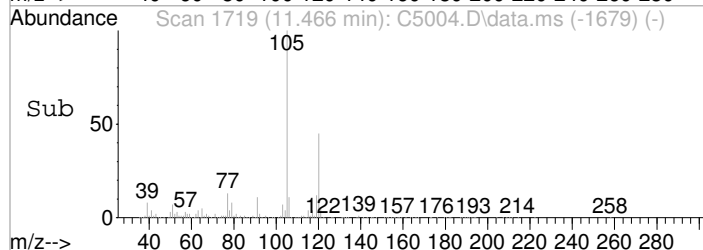
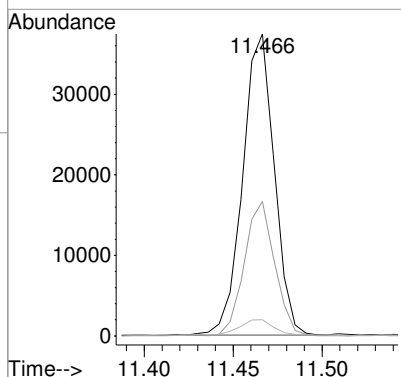
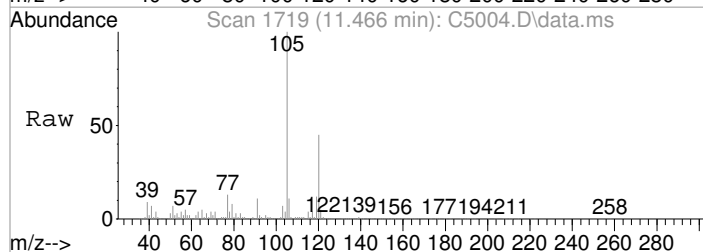
#94  
 1,3,5-Trimethylbenzene  
 Concen: 2.25 ug/L  
 RT: 11.143 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

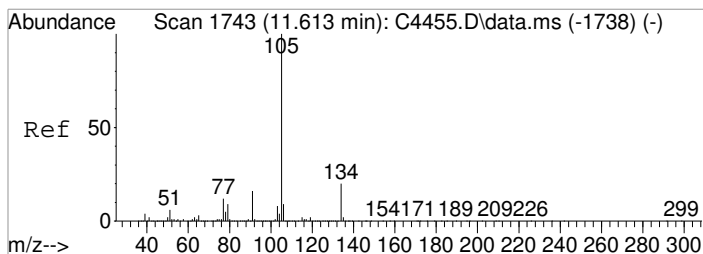
Tgt Ion	Resp	Lower	Upper
105	13669		
120	47.1	30.5	70.5
77	13.8	0.0	32.4



#96  
 1,2,4-Trimethylbenzene  
 Concen: 7.53 ug/L  
 RT: 11.466 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

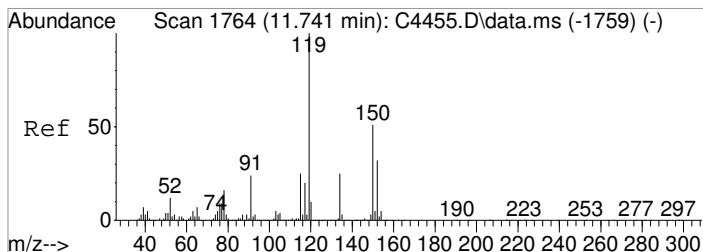
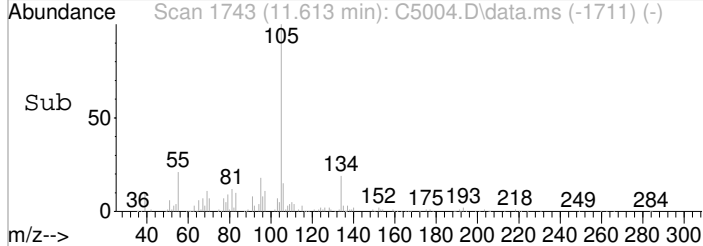
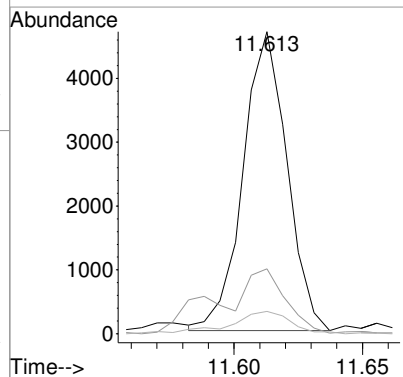
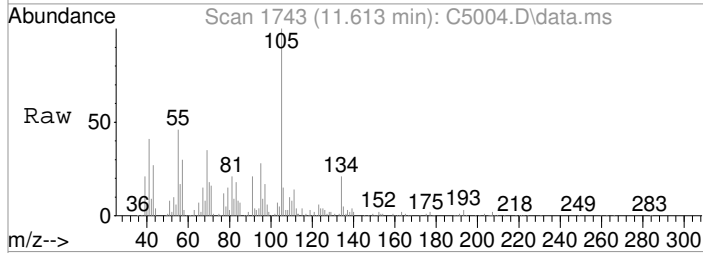
Tgt Ion	Resp	Lower	Upper
105	46352		
120	44.5	26.3	66.3
65	5.4	0.0	24.4





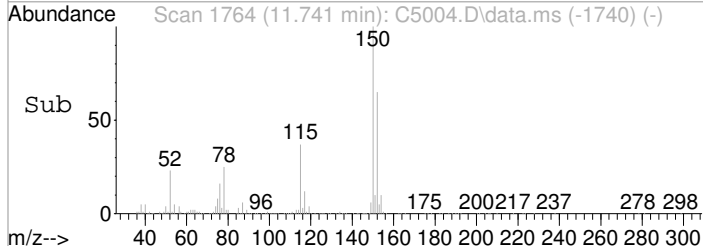
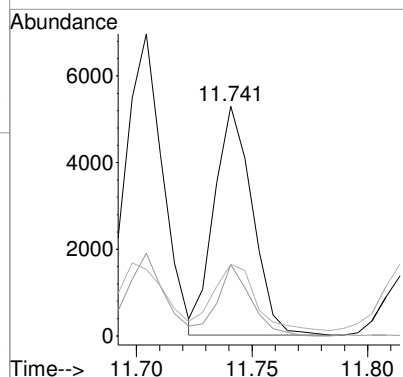
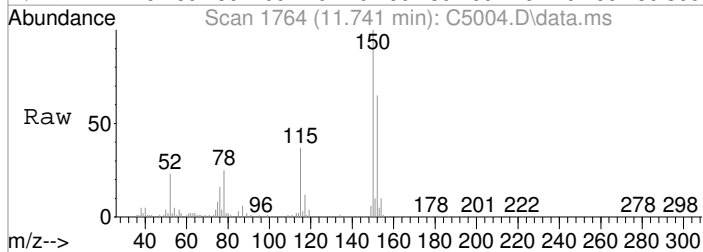
#97  
 sec-Butylbenzene  
 Concen: 0.71 ug/L  
 RT: 11.613 min Scan# 1743  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

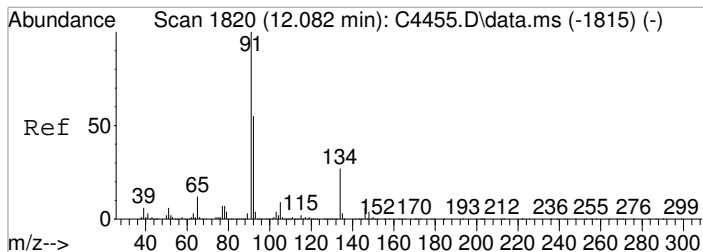
Tgt Ion	Resp	Lower	Upper
105	5549		
134	21.5	0.0	39.9
103	7.4	0.0	28.1



#98  
 p-Isopropyltoluene  
 Concen: 0.90 ug/L  
 RT: 11.741 min Scan# 1764  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

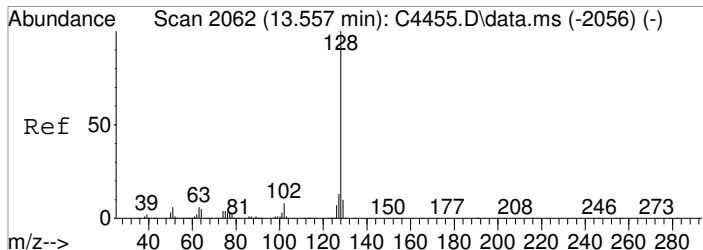
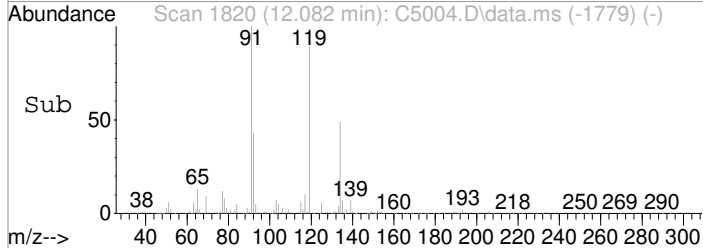
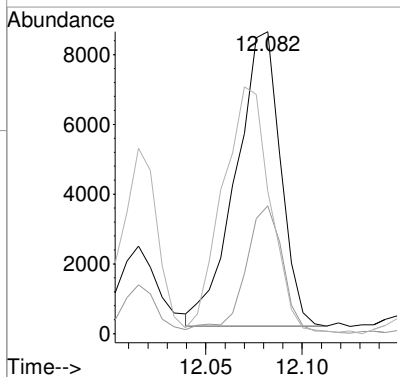
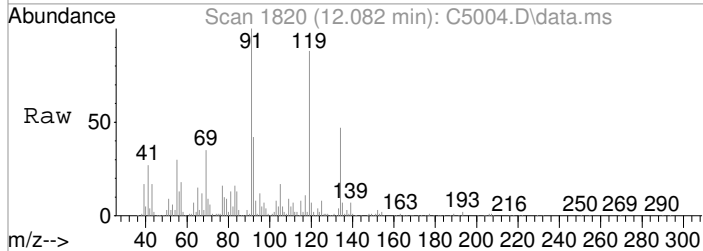
Tgt Ion	Resp	Lower	Upper
119	6050		
134	31.0	4.9	44.9
91	31.1	3.5	43.5





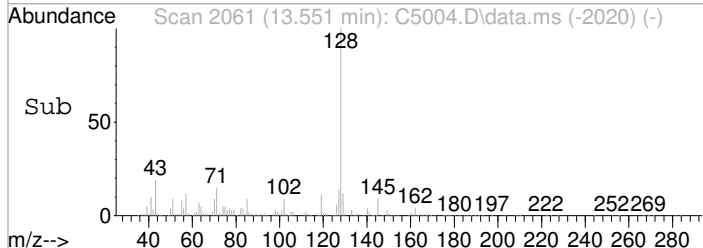
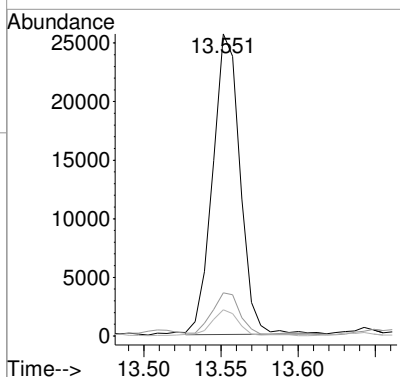
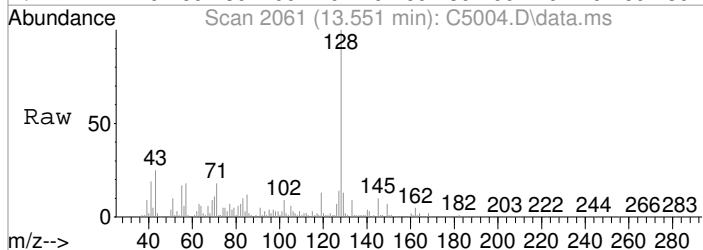
#101  
 n-Butylbenzene  
 Concen: 2.21 ug/L  
 RT: 12.082 min Scan# 1820  
 Delta R.T. 0.000 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

Tgt Ion	Resp	Lower	Upper
91	13579		
92	42.4	34.9	74.9
134	47.1	6.7	46.7#



#107  
 Naphthalen  
 Concen: 4.77 ug/L  
 RT: 13.551 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5004.D  
 Acq: 16 Feb 2018 4:52 pm

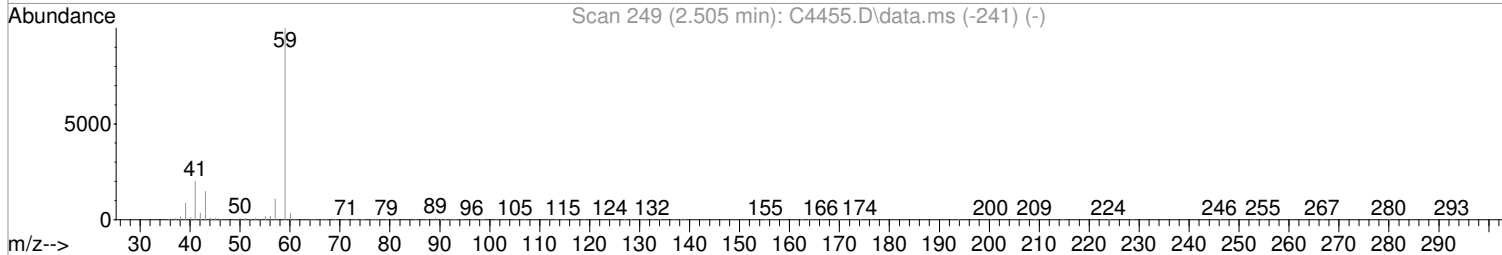
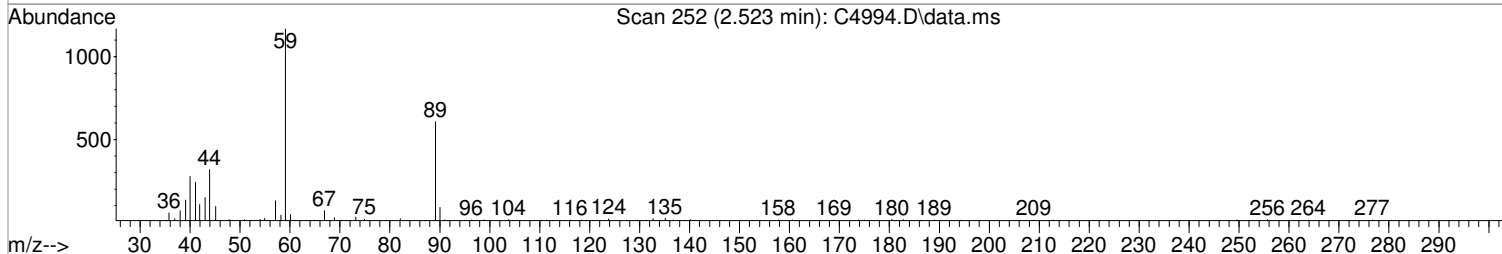
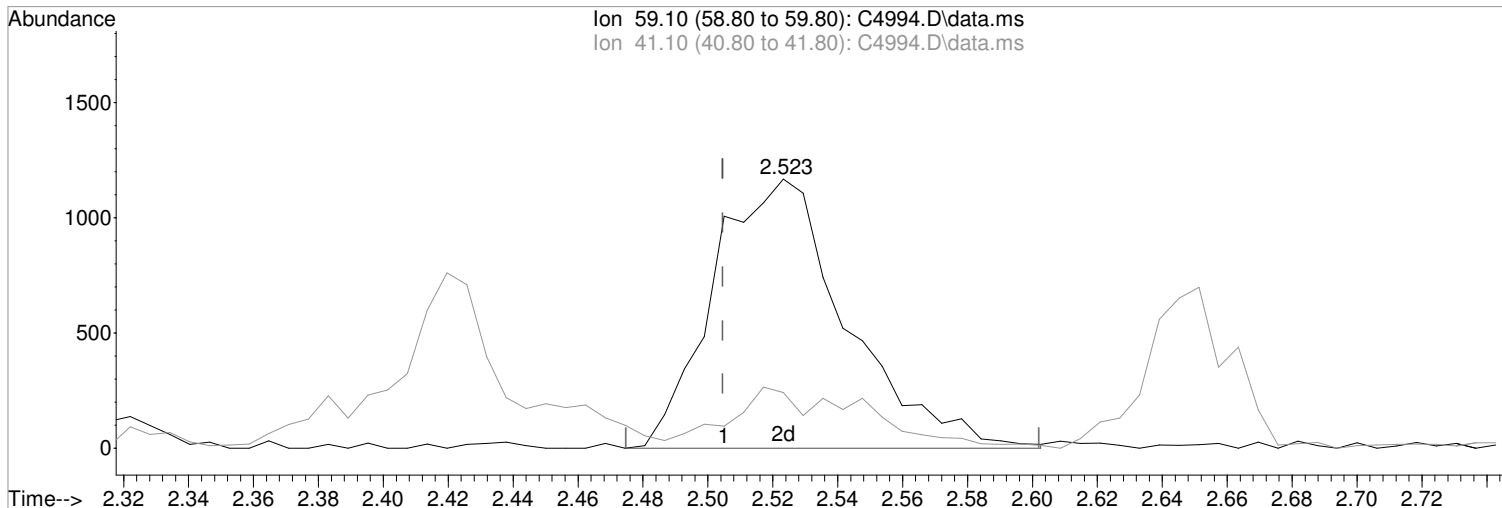
Tgt Ion	Resp	Lower	Upper
128	31761		
127	14.3	0.0	33.4
102	8.6	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4994.D  
Acq On : 16 Feb 2018 1:01 pm  
Operator : F. NAEGLER  
Sample : R1801334-004|0.91  
Misc : DAY 12666 T4  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:29:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C4994.D\data.ms

(23) TBA  
2.523min (+0.019) 8.77 ug/L m  
response 3332

Manual Integration:  
After  
Poor integration.

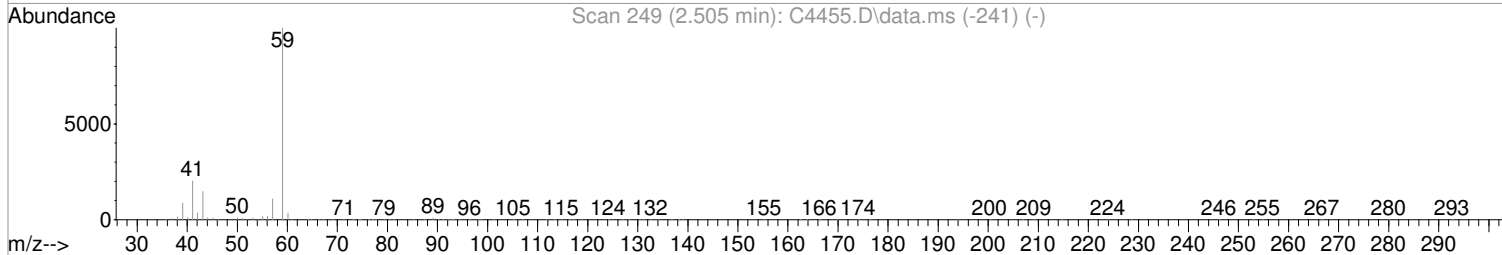
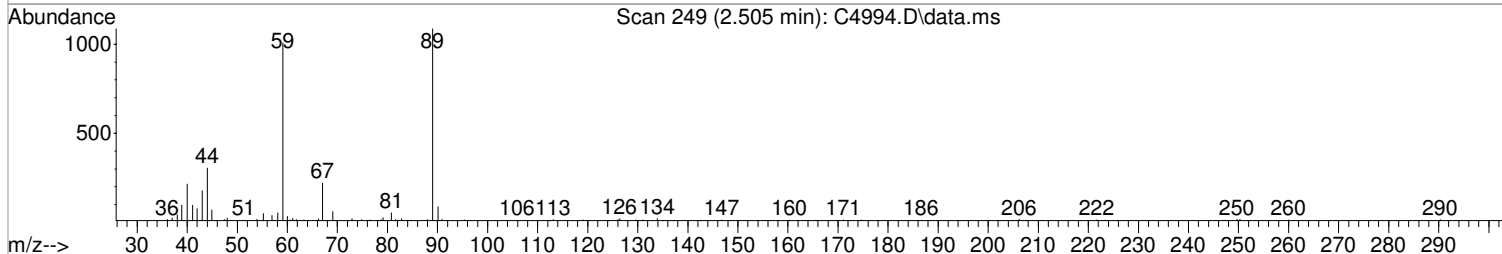
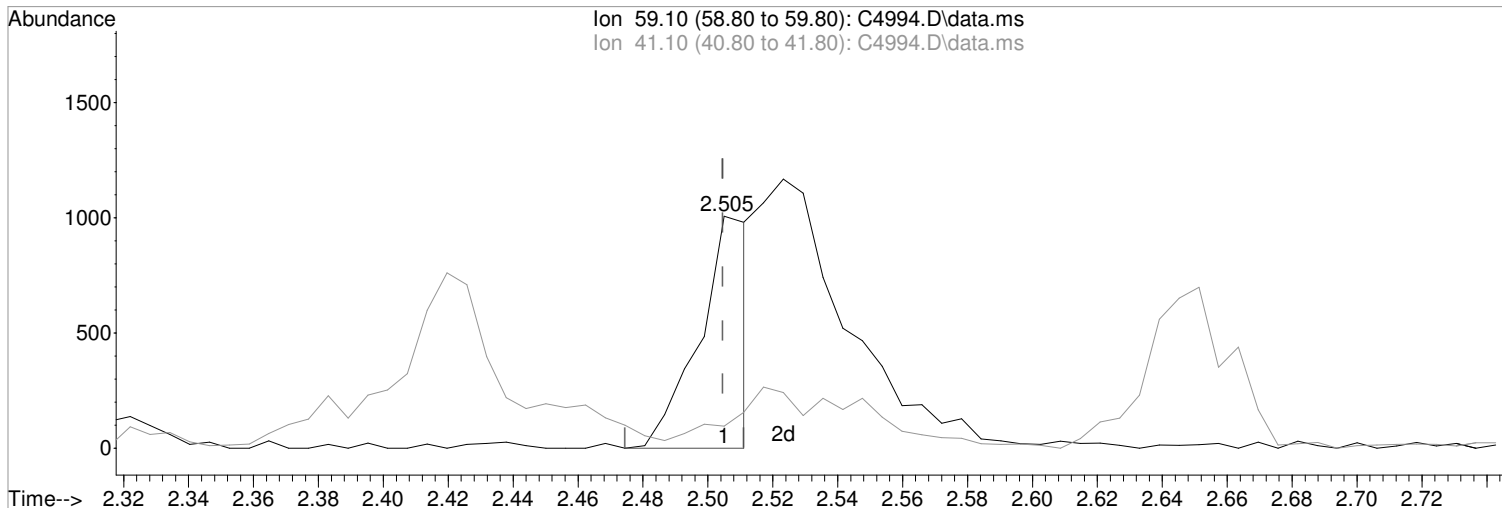
Ion	Exp%	Act%
59.10	100	100
41.10	20.30	20.72
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4994.D  
Acq On : 16 Feb 2018 1:01 pm  
Operator : F. NAEGLER  
Sample : R1801334-004|0.91  
Misc : DAY 12666 T4  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:29:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(23) TBA

2.505min (+0.000) 2.86 ug/L

response 1087

Ion	Exp%	Act%
59.10	100	100
41.10	20.30	9.53
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

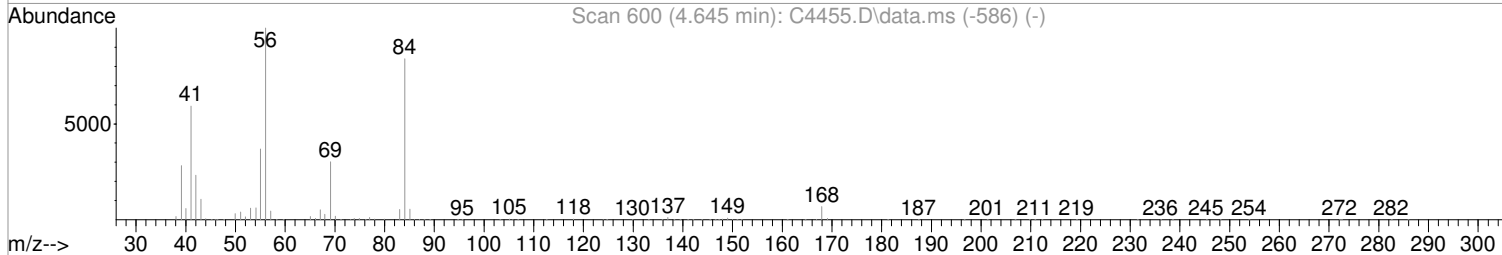
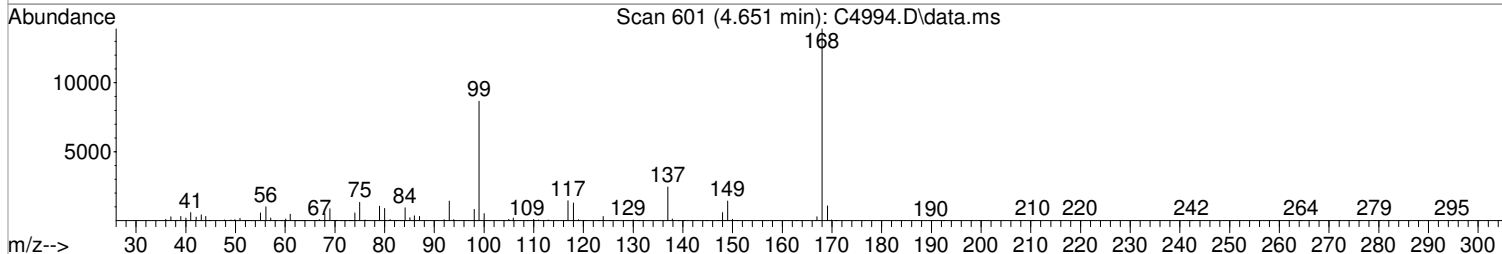
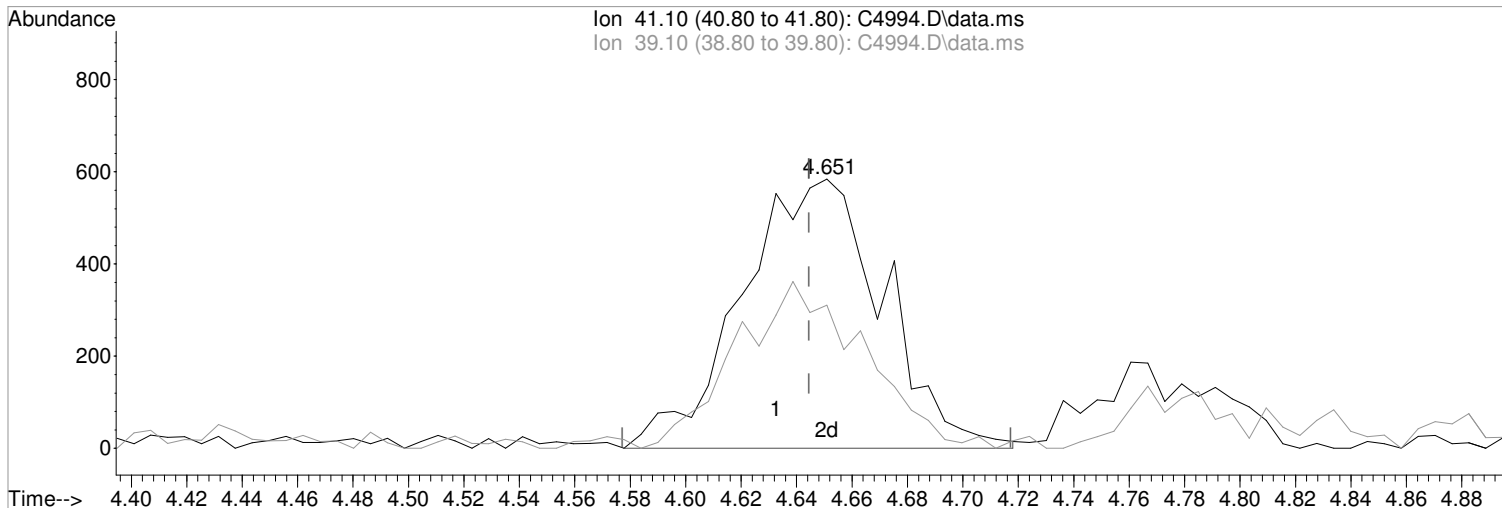
Before

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4994.D  
Acq On : 16 Feb 2018 1:01 pm  
Operator : F. NAEGLER  
Sample : R1801334-004|0.91  
Misc : DAY 12666 T4  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:29:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C4994.D\data.ms

(43) Cyclohexane (P)  
4.651min (+0.006) 0.97 ug/L m  
response 2075

Manual Integration:  
After  
Poor integration.

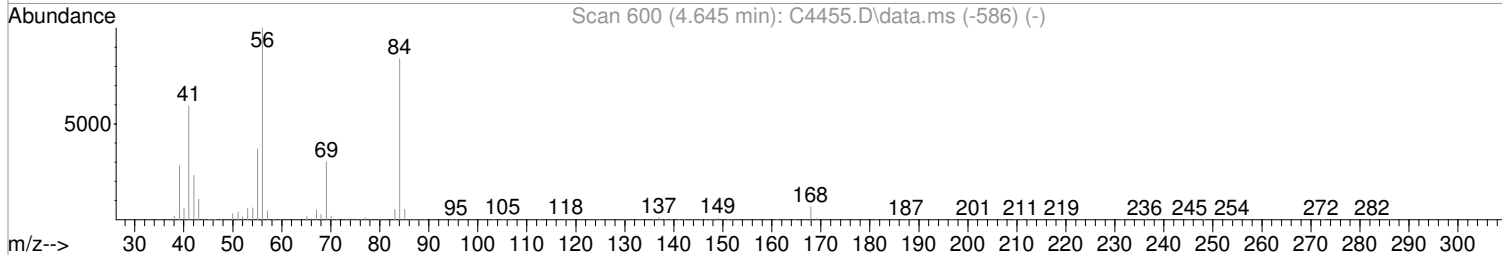
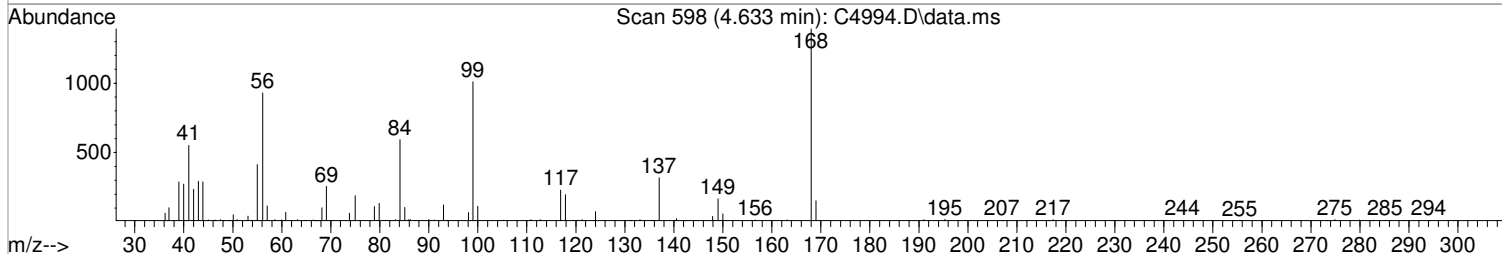
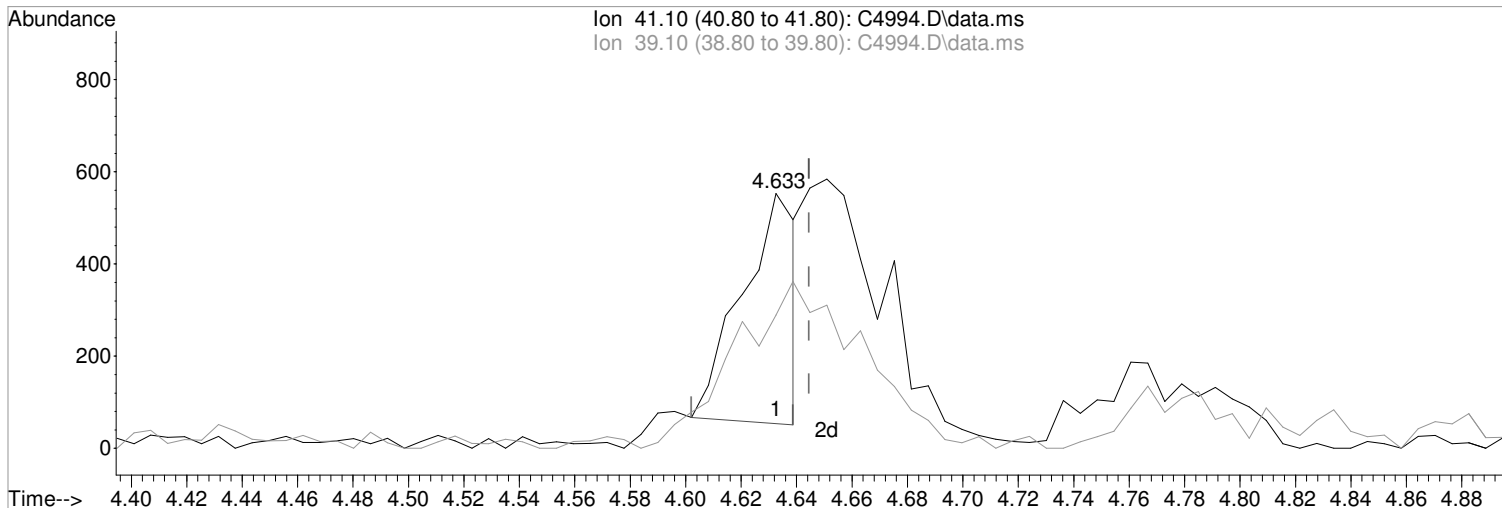
Ion	Exp%	Act%
41.10	100	100
39.10	48.00	53.25
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4994.D  
 Acq On : 16 Feb 2018 1:01 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-004|0.91  
 Misc : DAY 12666 T4  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:29:14 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration



TIC: C4994.D\data.ms

(43) Cyclohexane (P)  
 4.633min (-0.012) 0.32 ug/L  
 response 673

Manual Integration:  
 Before

Ion	Exp%	Act%
41.10	100	100
39.10	48.00	52.26
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4994.D  
 Acq On : 16 Feb 2018 1:01 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-004|0.91 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 16 13:39:10 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

SURR low

Rpt to confirm

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	206239	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	316954	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	281844	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	143900	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	49339	25.00	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	50.00%#		*
47) SURR1,1,2-dichloroetha...	5.120	65	126390	53.46	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	106.92%		
64) SURR3,Toluene-d8	7.949	98	389548	51.61	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	103.22%		
69) SURR2,BFB	10.729	95	148762	48.85	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	97.70%		
Target Compounds						
						Qvalue
15) Acetone	2.048	43	39675	42.46	ug/L	97
16) 2-Propanol	2.194	45	5402	25.35	ug/L	94
18) Carbon Disulfide	2.170	76	47960	7.77	ug/L	99
21) Methyl Acetate	2.310	43	2666	1.50	ug/L	94
22) Methylene Chloride	2.389	84	1033	0.48	ug/L #	61
23) TBA	2.523	59	3332m	8.77	ug/L	
34) 2-Butanone	3.834	43	6115	4.84	ug/L	94
43) Cyclohexane	4.651	41	2075m	0.97	ug/L	
48) Benzene	5.212	78	2352	0.28	ug/L	93
51) n-Heptane	5.803	43	3911	1.62	ug/L #	69
54) Methylcyclohexane	6.571	55	4098	1.35	ug/L	91
63) 4-Methyl-2-pentanone	7.864	43	860	0.33	ug/L	71
65) Toluene	8.028	91	7501	0.83	ug/L	97
72) 2-Hexanone	8.882	43	680	0.36	ug/L	91
80) (m+p)Xylene	9.875	106	3597	0.89	ug/L #	84
81) o-Xylene	10.247	106	1015	0.25	ug/L	89
94) 1,3,5-Trimethylbenzene	11.150	105	2229	0.27	ug/L	92
96) 1,2,4-Trimethylbenzene	11.467	105	4757	0.57	ug/L	98
107) Naphthalen	13.552	128	3064	0.34	ug/L	96

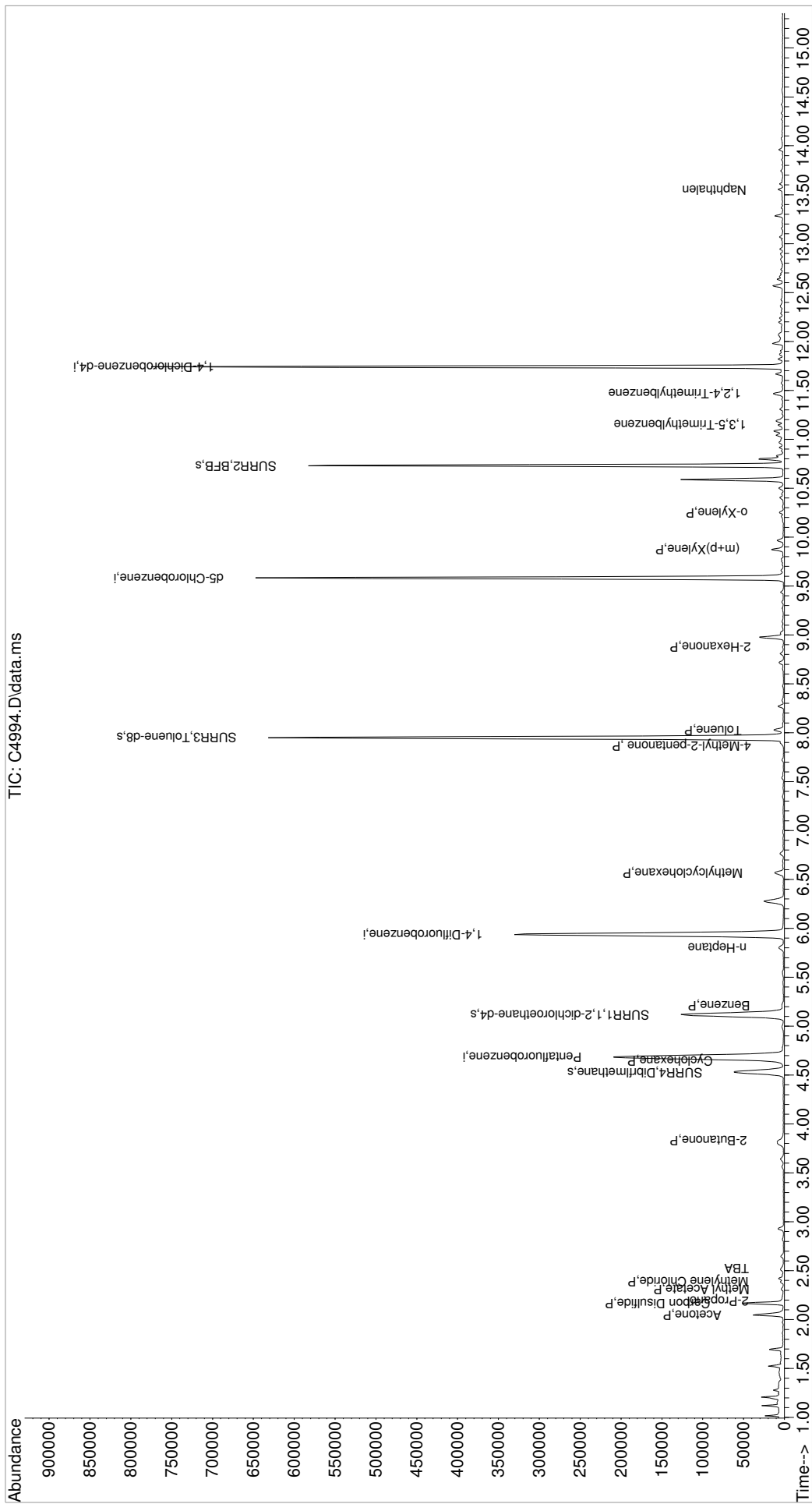
(#) = qualifier out of range (m) = manual integration (+) = signals summed

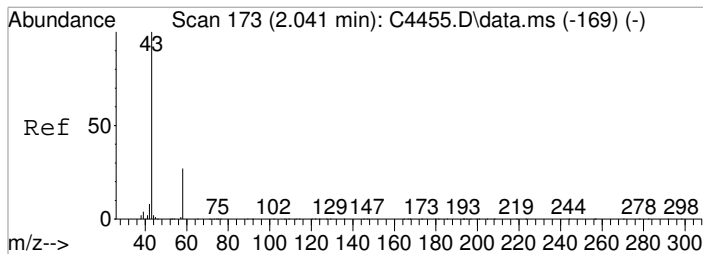
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4994.D  
Acq On : 16 Feb 2018 1:01 pm  
Operator : F. NAEGLER  
Sample : R1801334-004|0.91  
Misc : DAY 12666 T4  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

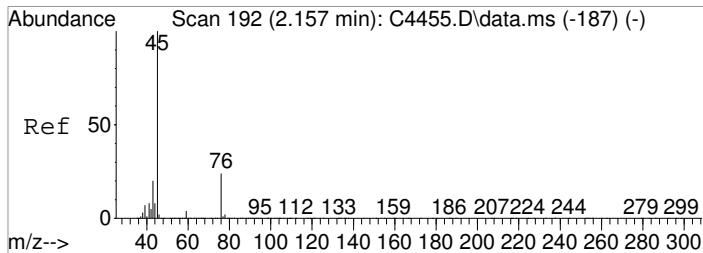
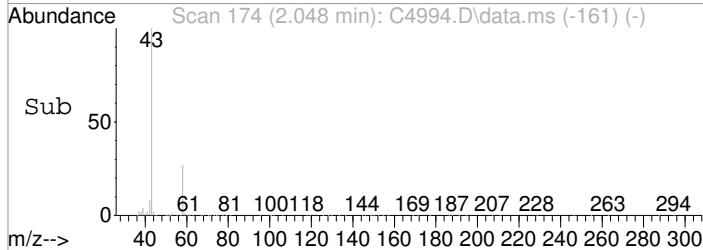
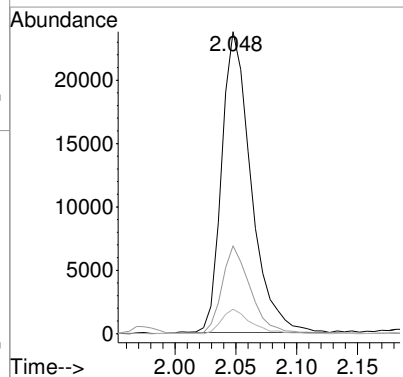
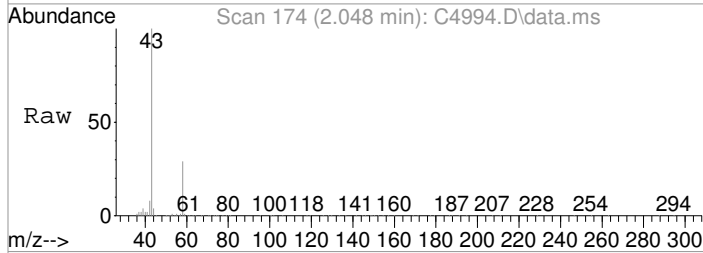
Quant Time: Feb 16 13:39:10 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration





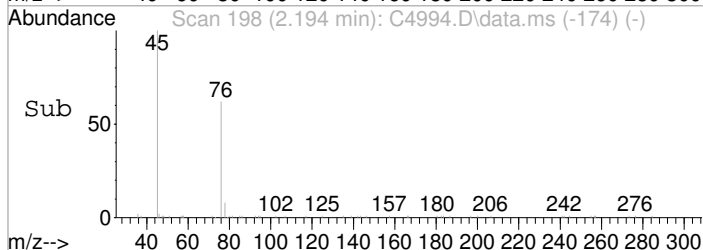
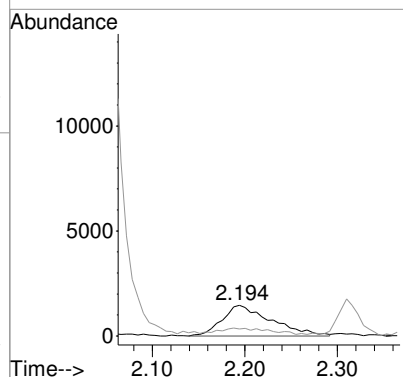
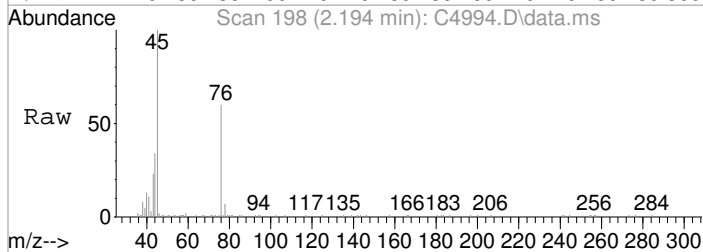
#15  
 Acetone  
 Concen: 42.46 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.007 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

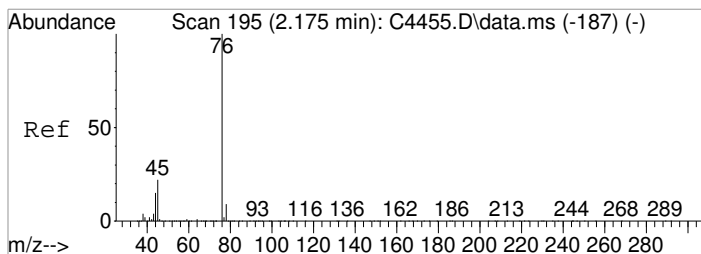
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.1	7.1	47.1
42	8.1	0.0	28.6



#16  
 2-Propanol  
 Concen: 25.35 ug/L  
 RT: 2.194 min Scan# 198  
 Delta R.T. 0.037 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

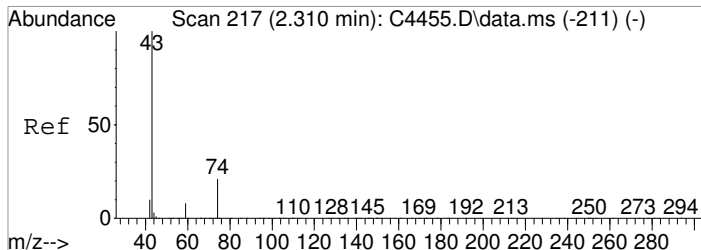
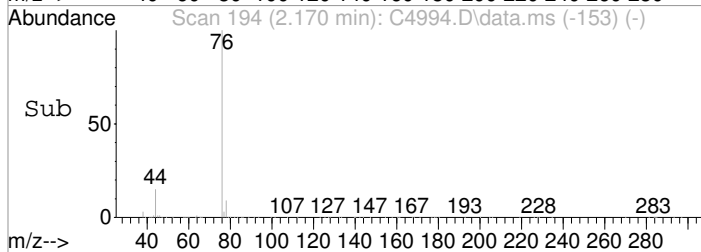
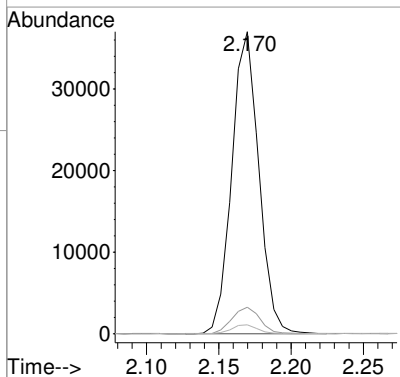
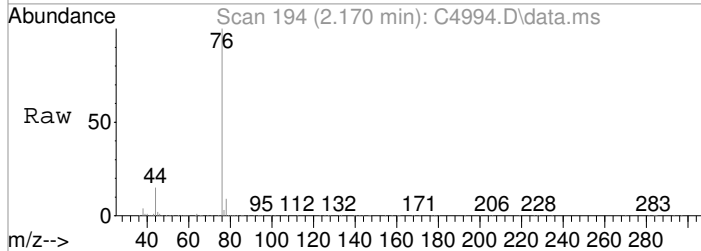
Tgt Ion	Resp	Lower	Upper
45	100		
43	22.8	0.1	40.1





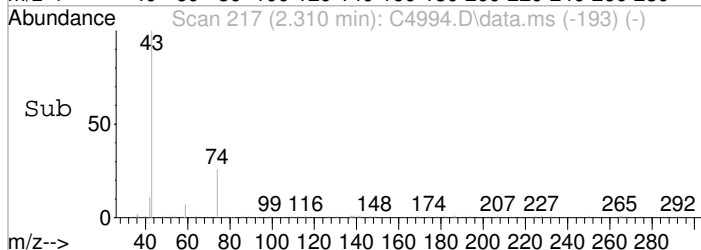
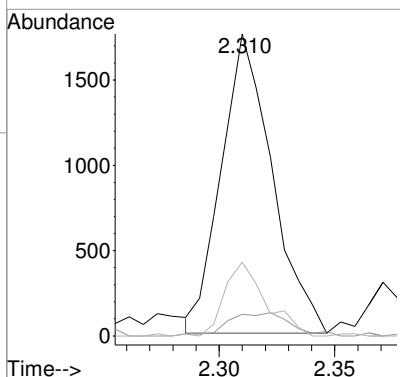
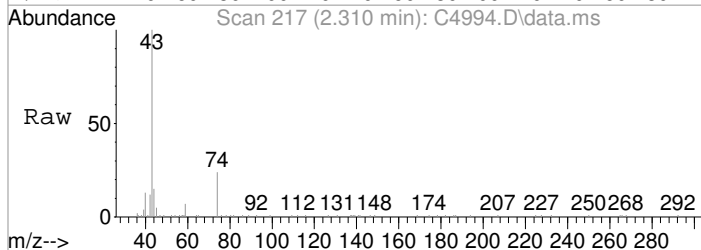
#18  
 Carbon Disulfide  
 Concen: 7.77 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

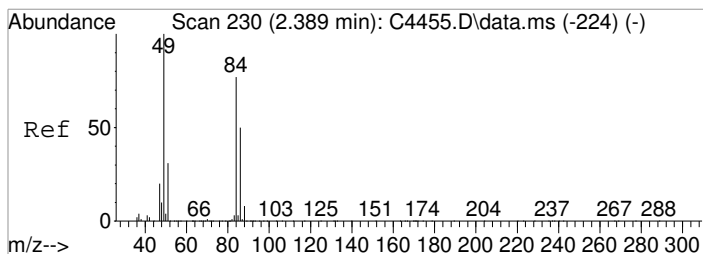
Tgt Ion	Resp	Lower	Upper
76	47960		
78	8.7	0.0	28.9
77	2.9	0.0	22.4



#21  
 Methyl Acetate  
 Concen: 1.50 ug/L  
 RT: 2.310 min Scan# 217  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

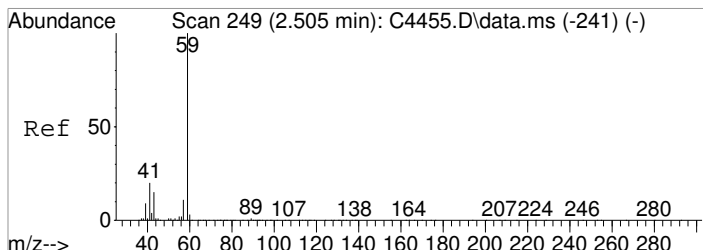
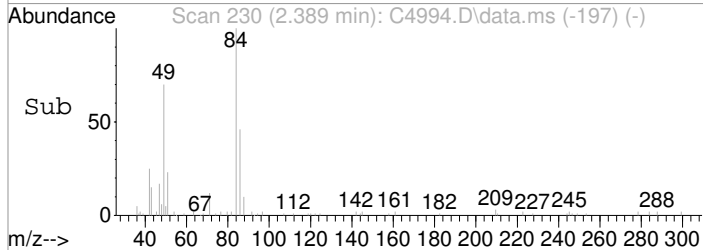
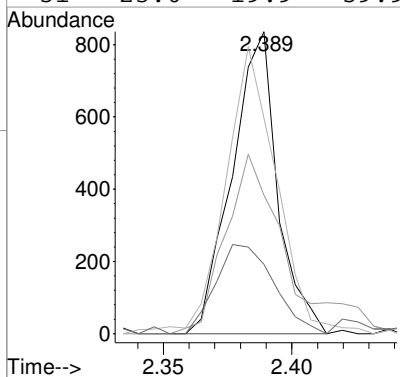
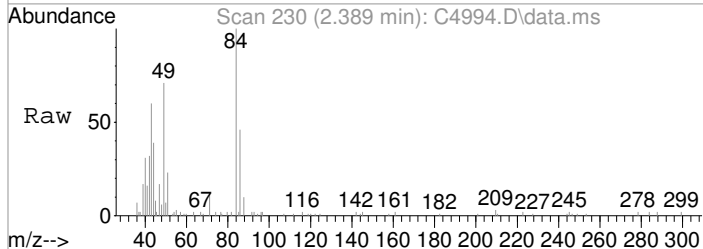
Tgt Ion	Resp	Lower	Upper
43	2666		
59	7.2	0.0	27.7
74	24.4	1.0	41.0





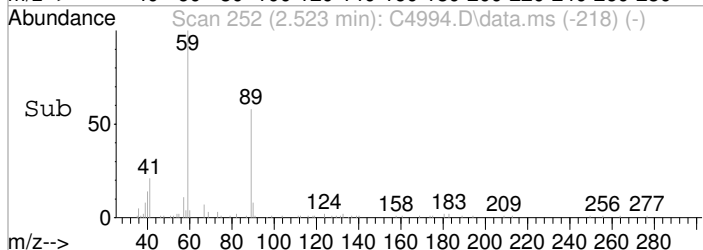
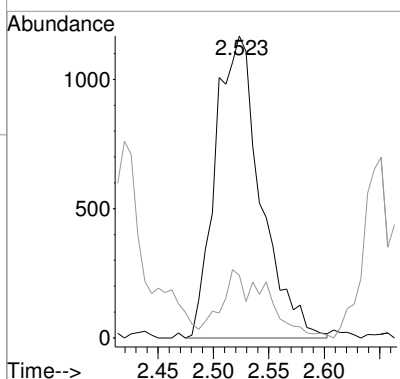
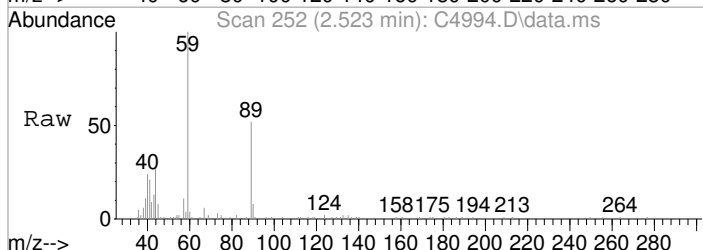
#22  
 Methylene Chloride  
 Concen: 0.48 ug/L  
 RT: 2.389 min Scan# 230  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

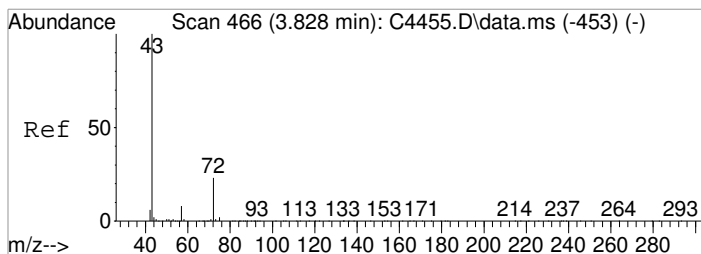
Tgt Ion	Resp	Lower	Upper
84	1033		
86	45.8	43.9	83.9
49	71.4	109.1	149.1#
51	23.0	19.9	59.9



#23  
 TBA  
 Concen: 8.77 ug/L m  
 RT: 2.523 min Scan# 252  
 Delta R.T. 0.019 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

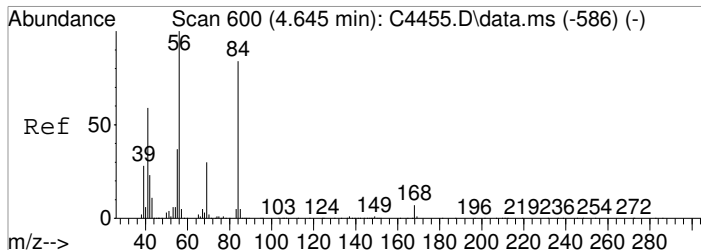
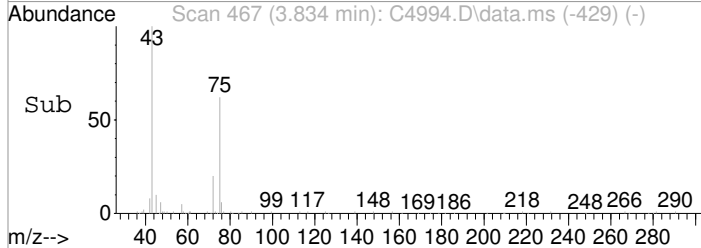
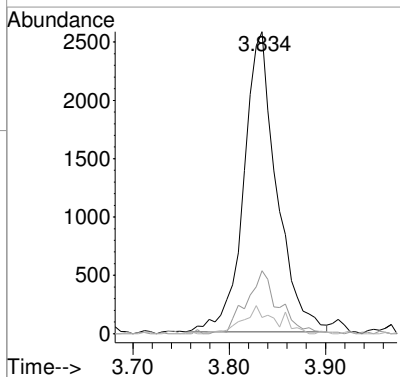
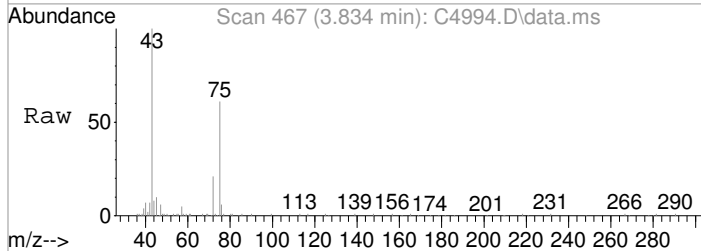
Tgt Ion	Resp	Lower	Upper
59	3332		
41	20.7	0.3	40.3





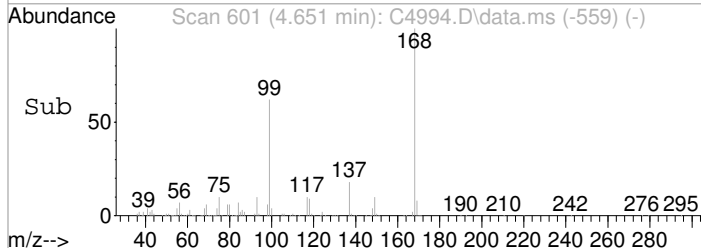
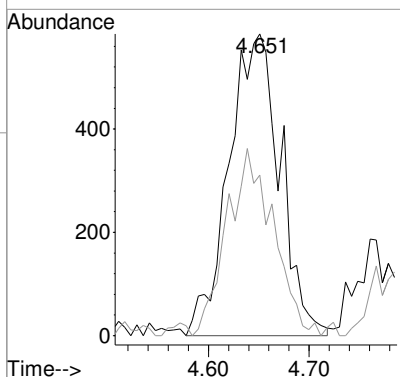
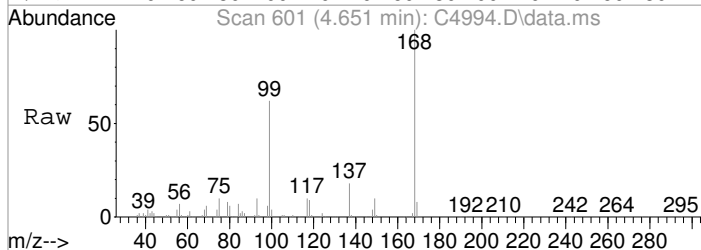
#34  
 2-Butanone  
 Concen: 4.84 ug/L  
 RT: 3.834 min Scan# 467  
 Delta R.T. 0.007 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

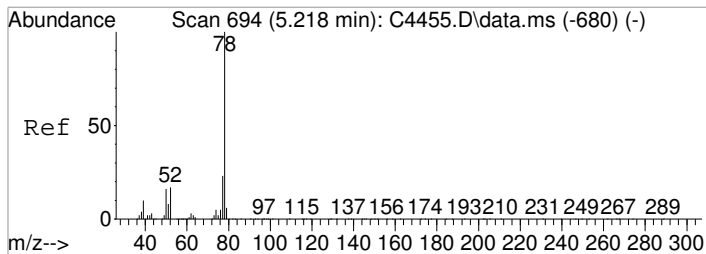
Tgt Ion	Resp	Lower	Upper
43	6115		
72	20.9	3.3	43.3
57	5.4	0.0	28.0



#43  
 Cyclohexane  
 Concen: 0.97 ug/L m  
 RT: 4.651 min Scan# 601  
 Delta R.T. 0.006 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

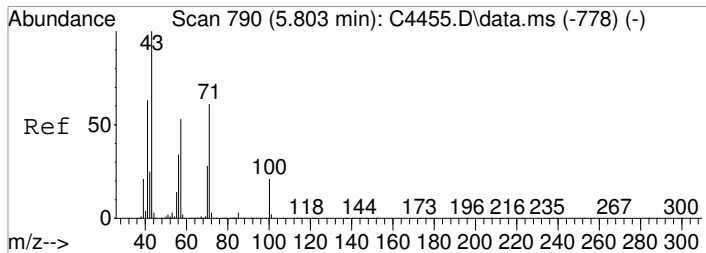
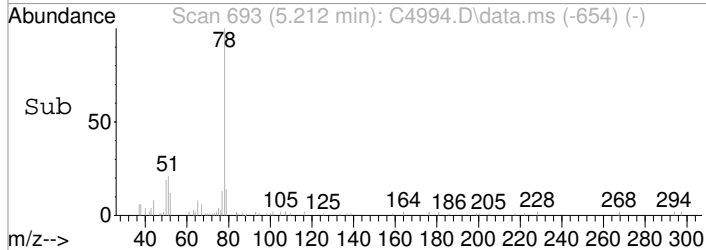
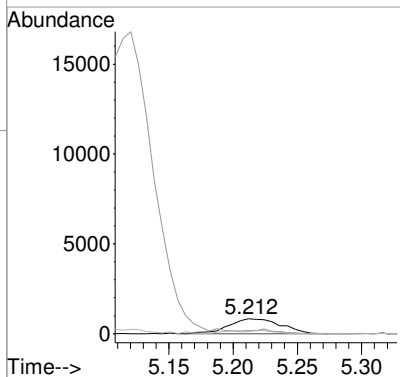
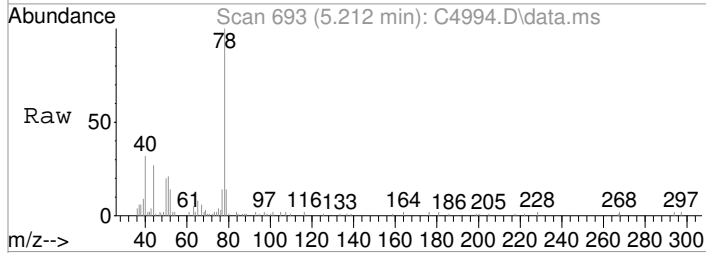
Tgt Ion	Resp	Lower	Upper
41	2075		
39	53.3	28.0	68.0





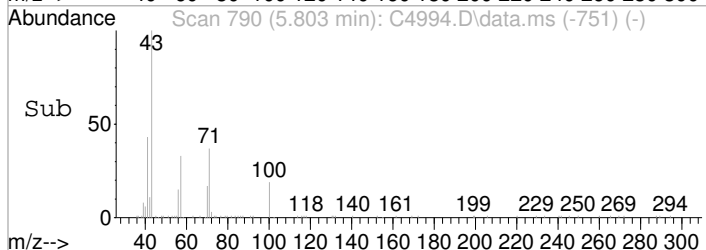
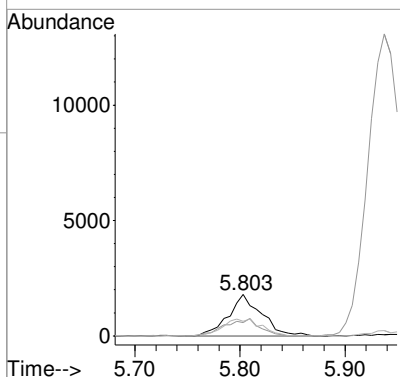
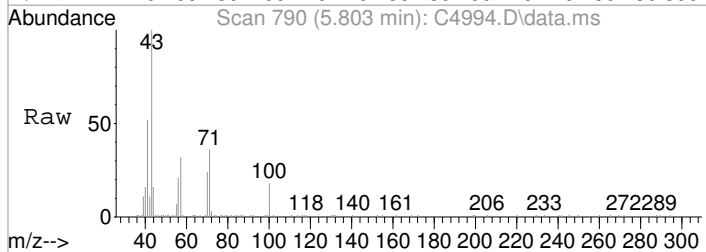
#48  
 Benzene  
 Concen: 0.28 ug/L  
 RT: 5.212 min Scan# 693  
 Delta R.T. -0.006 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

Tgt Ion	Resp	Lower	Upper
78	100		
51	20.7	0.0	37.4
52	14.2	0.0	36.9

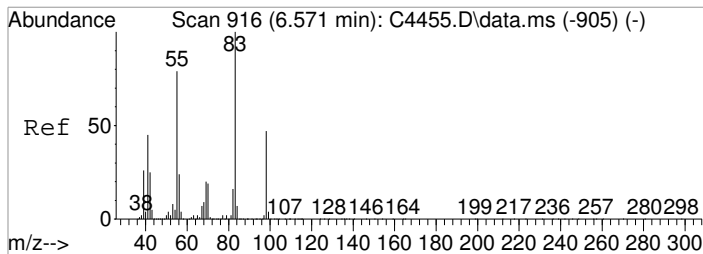


#51  
 n-Heptane  
 Concen: 1.62 ug/L  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

Tgt Ion	Resp	Lower	Upper
43	100		
57	32.5	33.3	73.3#
71	35.5	40.9	80.9#

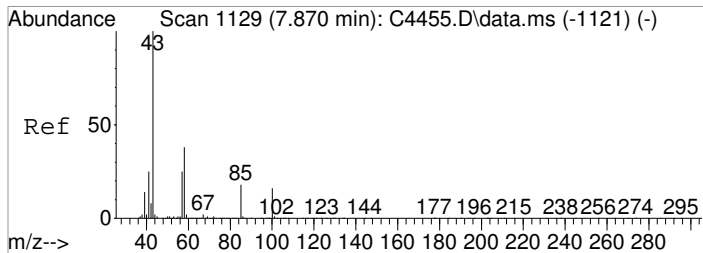
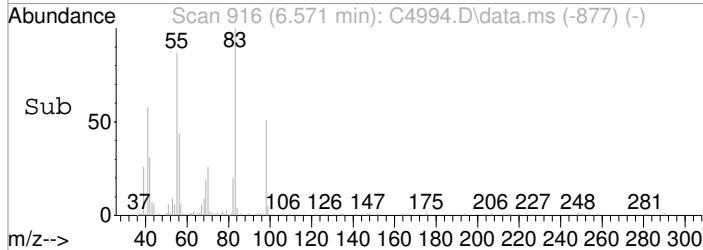
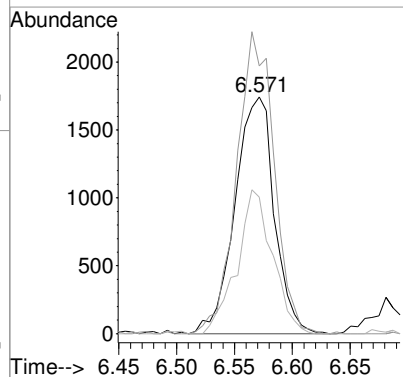
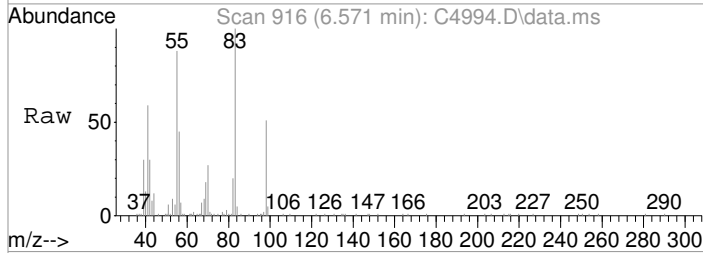






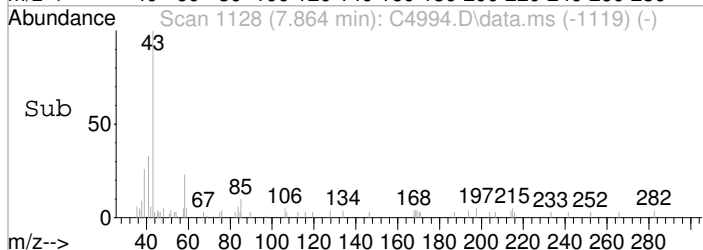
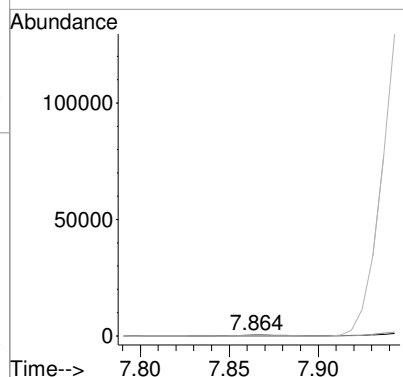
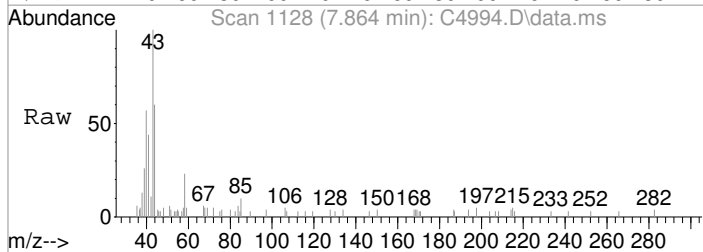
#54  
 Methylcyclohexane  
 Concen: 1.35 ug/L  
 RT: 6.571 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

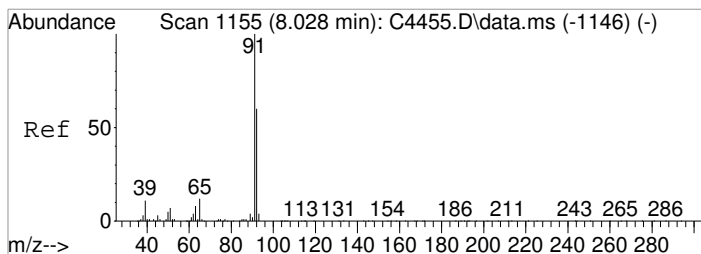
Tgt Ion:	Resp:	Lower	Upper
55	4098		
55	100		
83	113.0	106.2	146.2
98	57.7	39.7	79.7



#63  
 4-Methyl-2-pentanone  
 Concen: 0.33 ug/L  
 RT: 7.864 min Scan# 1128  
 Delta R.T. -0.006 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

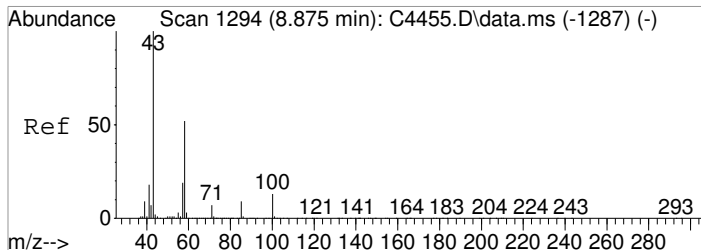
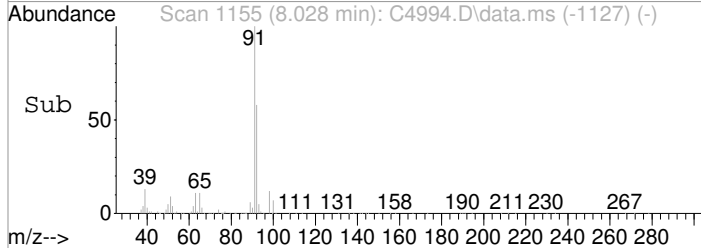
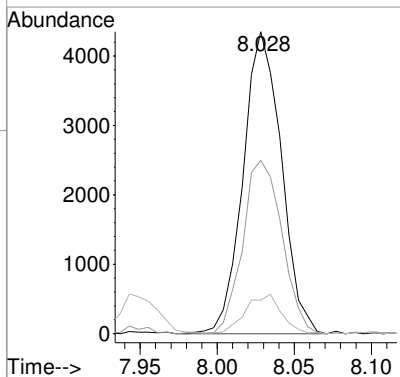
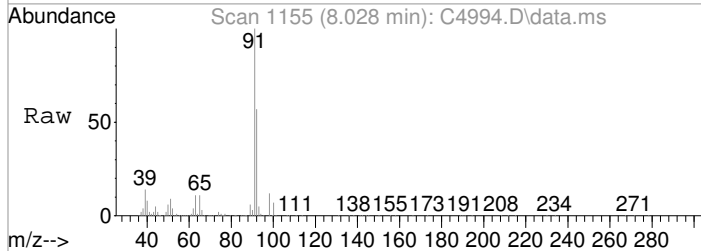
Tgt Ion:	Resp:	Lower	Upper
43	860		
43	100		
58	23.3	18.2	58.2
100	0.0	0.0	36.2





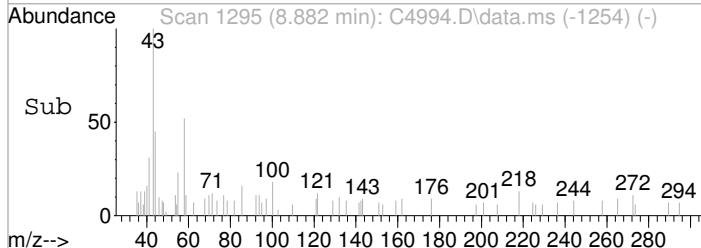
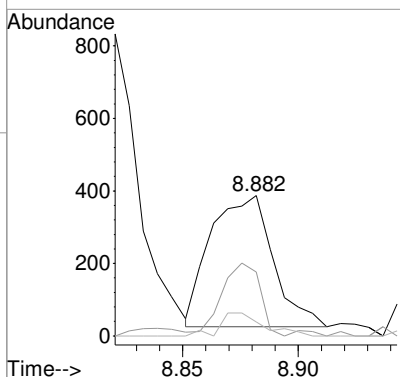
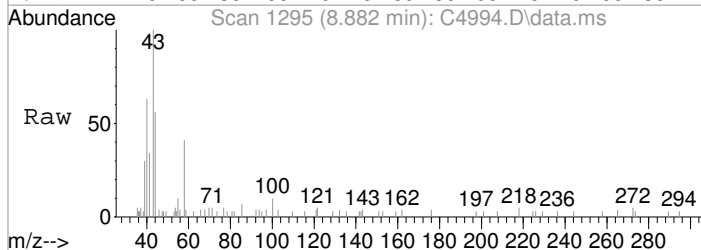
#65  
 Toluene  
 Concen: 0.83 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

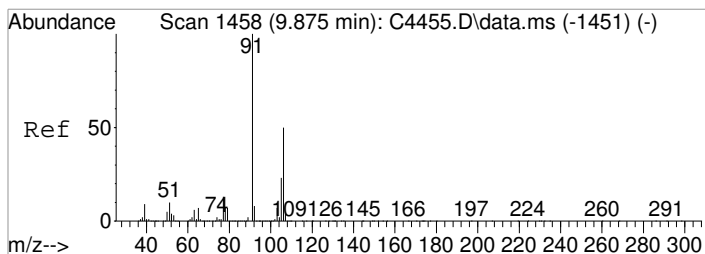
Tgt Ion	Resp	Lower	Upper
91	100		
92	57.4	39.7	79.7
65	11.1	0.0	31.9



#72  
 2-Hexanone  
 Concen: 0.36 ug/L  
 RT: 8.882 min Scan# 1295  
 Delta R.T. 0.006 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

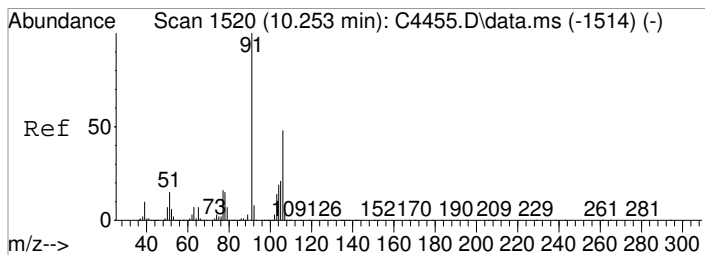
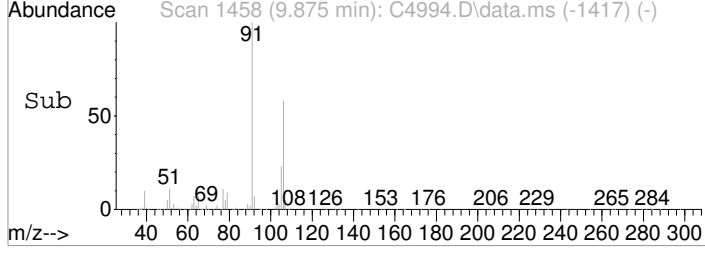
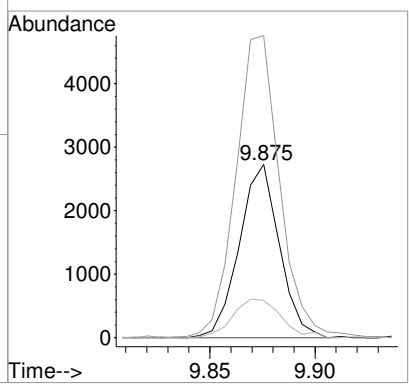
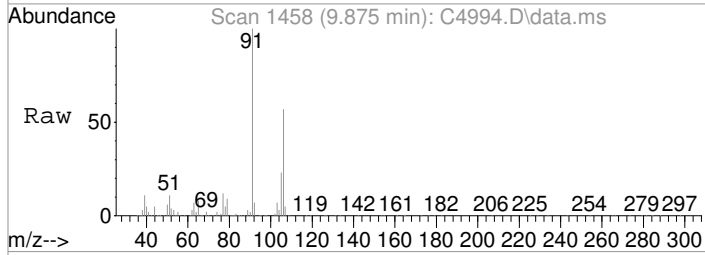
Tgt Ion	Resp	Lower	Upper
43	100		
58	45.5	32.2	72.2
100	10.1	0.0	32.9





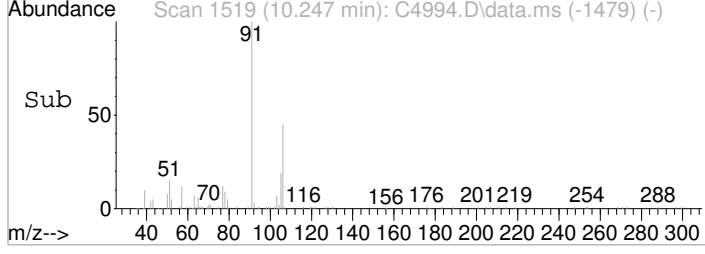
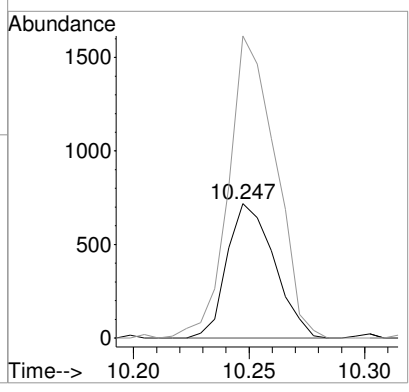
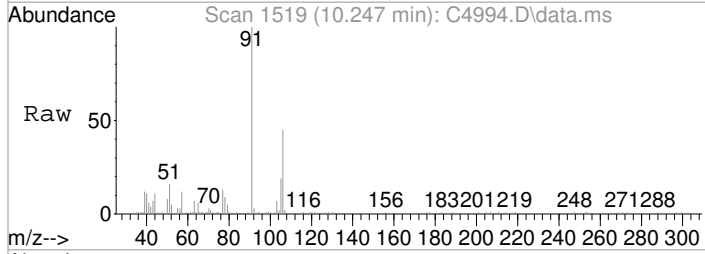
#80  
 (m+p)Xylene  
 Concen: 0.89 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

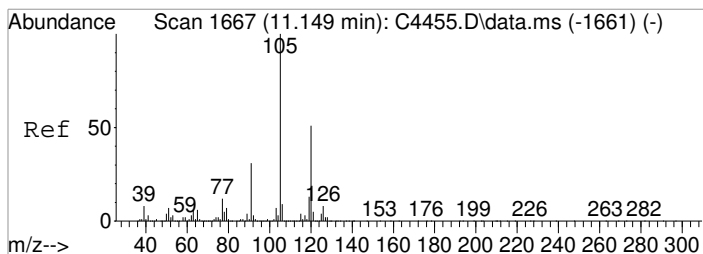
Tgt Ion	106	Resp	3597
Ion Ratio	Lower	Upper	
106	100		
91	174.2	180.9	220.9#
77	21.5	5.7	45.7



#81  
 o-Xylene  
 Concen: 0.25 ug/L  
 RT: 10.247 min Scan# 1519  
 Delta R.T. -0.006 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

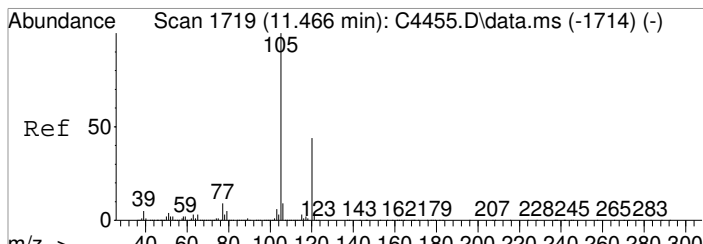
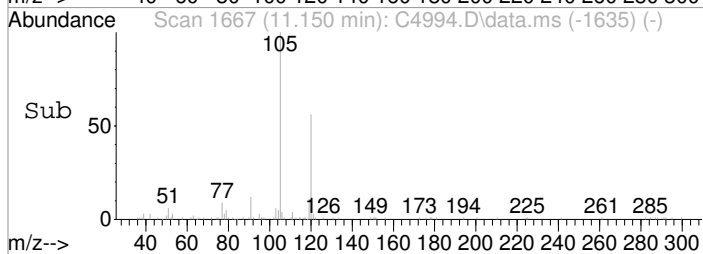
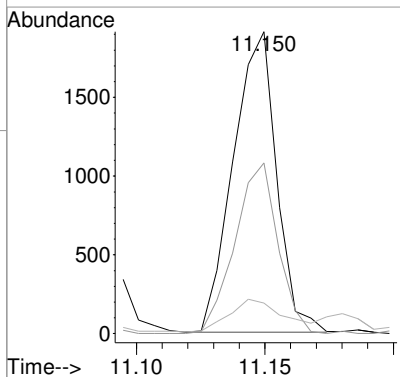
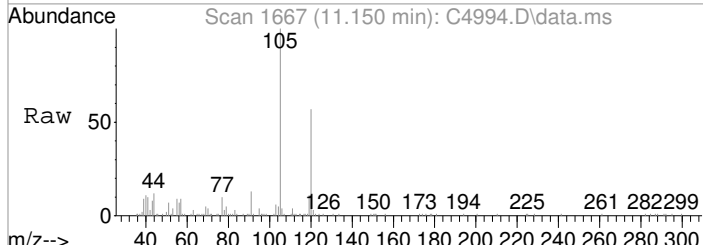
Tgt Ion	106	Resp	1015
Ion Ratio	Lower	Upper	
106	100		
91	224.6	187.6	227.6





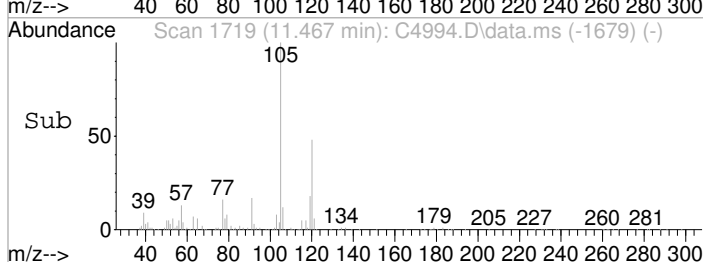
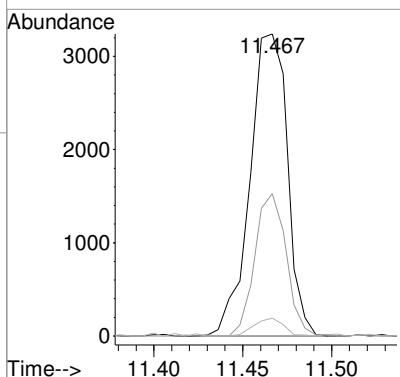
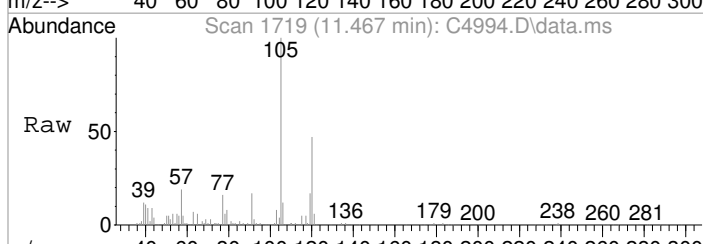
#94  
 1,3,5-Trimethylbenzene  
 Concen: 0.27 ug/L  
 RT: 11.150 min Scan# 1667  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

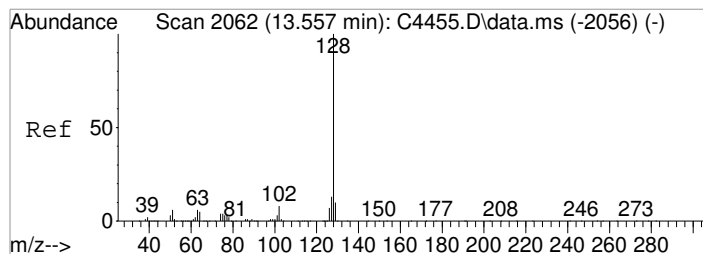
Tgt Ion	Resp	Lower	Upper
105	100		
120	56.5	30.5	70.5
77	10.1	0.0	32.4



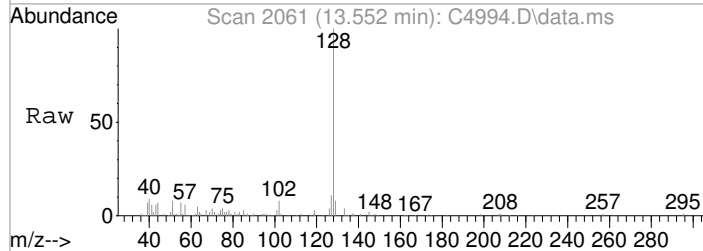
#96  
 1,2,4-Trimethylbenzene  
 Concen: 0.57 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C4994.D  
 Acq: 16 Feb 2018 1:01 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	47.1	26.3	66.3
65	5.9	0.0	24.4

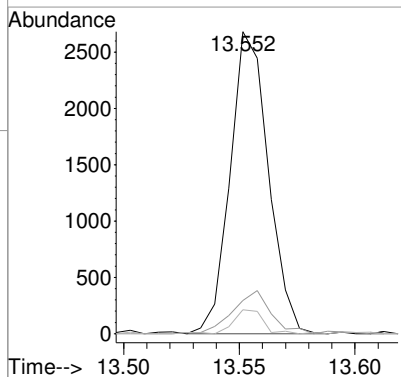
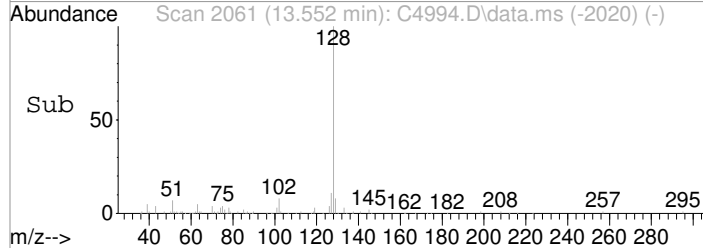




#107  
Naphthalen  
Concen: 0.34 ug/L  
RT: 13.552 min Scan# 2061  
Delta R.T. -0.006 min  
Lab File: C4994.D  
Acq: 16 Feb 2018 1:01 pm



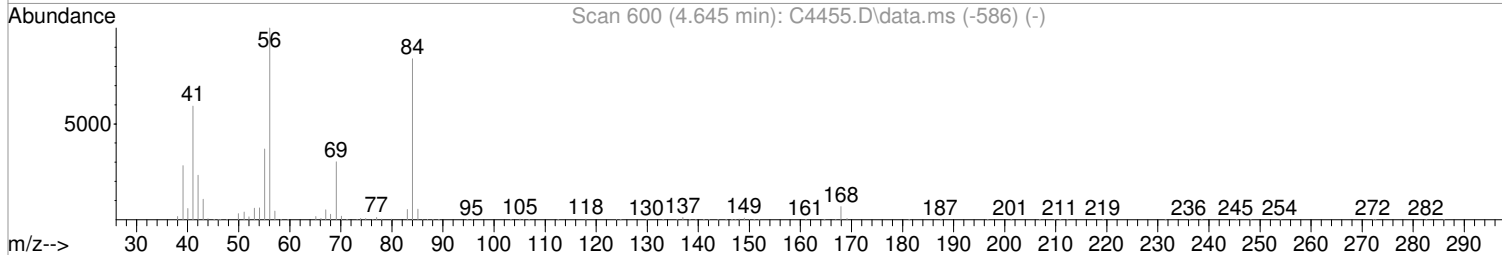
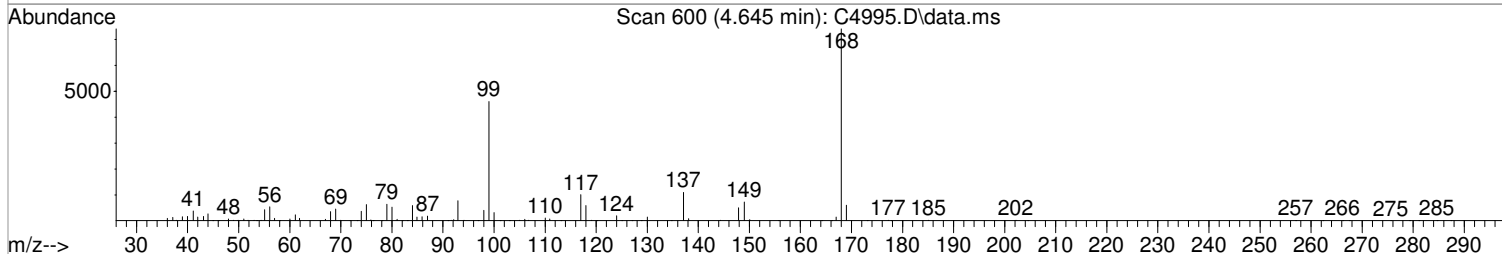
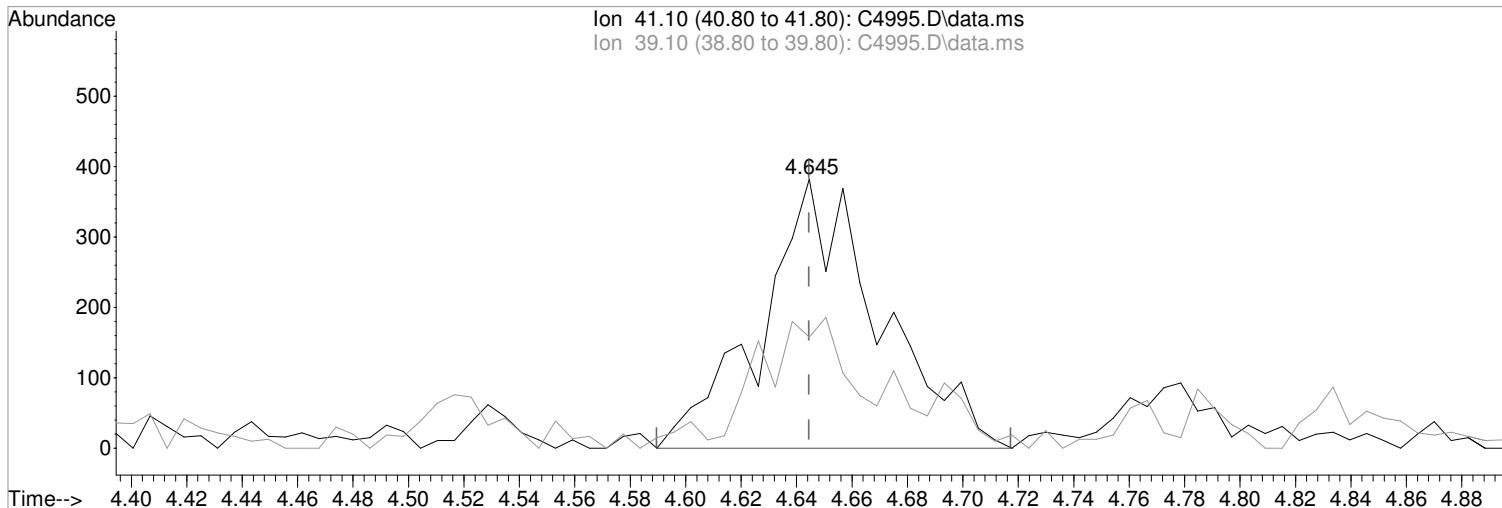
Tgt Ion	Resp	Lower	Upper
128	3064		
127	11.0	0.0	33.4
102	8.5	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4995.D  
Acq On : 16 Feb 2018 1:24 pm  
Operator : F. NAEGLER  
Sample : R1801334-005|0.73  
Misc : DAY 12666 T4  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:42:22 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)  
4.645min (0.000) 0.55 ug/L m  
response 1129

Manual Integration:  
After  
Poor integration.

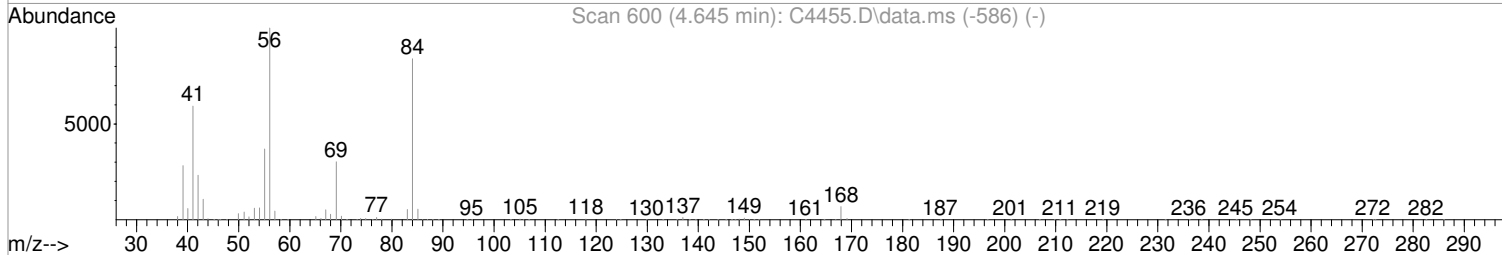
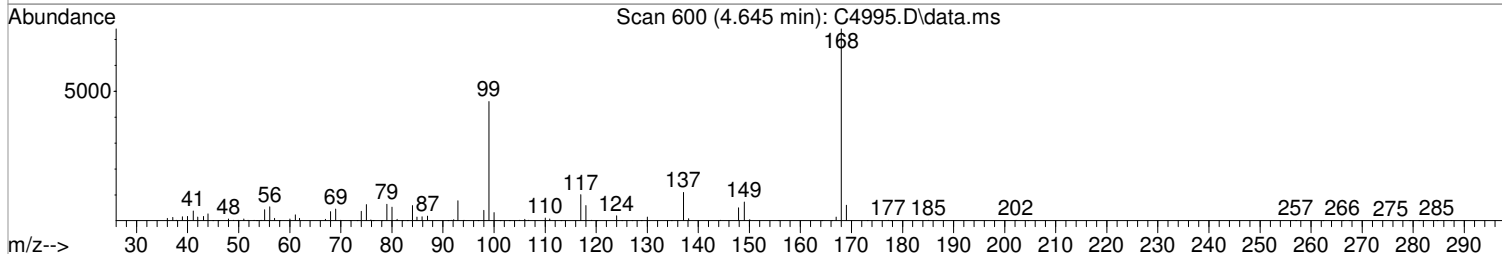
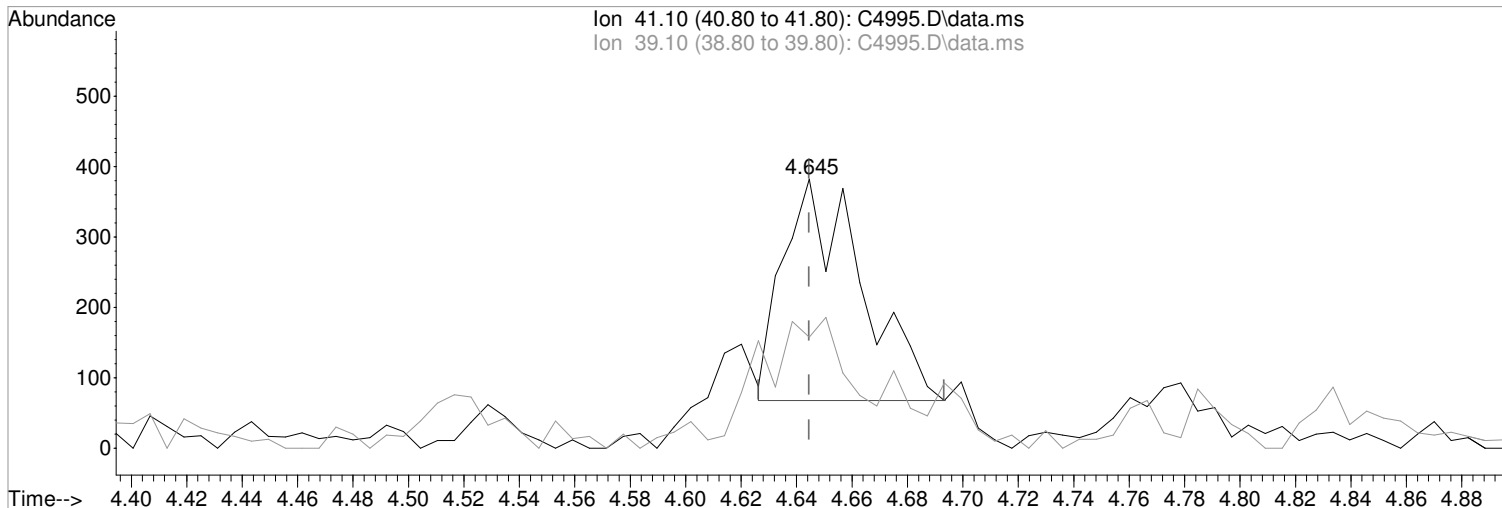
Ion	Exp%	Act%
41.10	100	100
39.10	48.00	41.36
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4995.D  
Acq On : 16 Feb 2018 1:24 pm  
Operator : F. NAEGLER  
Sample : R1801334-005|0.73  
Misc : DAY 12666 T4  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:42:22 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)  
4.645min (0.000) 0.30 ug/L  
response 612

Manual Integration:  
Before

Ion	Exp%	Act%
41.10	100	100
39.10	48.00	41.36
0.00	0.00	0.00
0.00	0.00	0.00

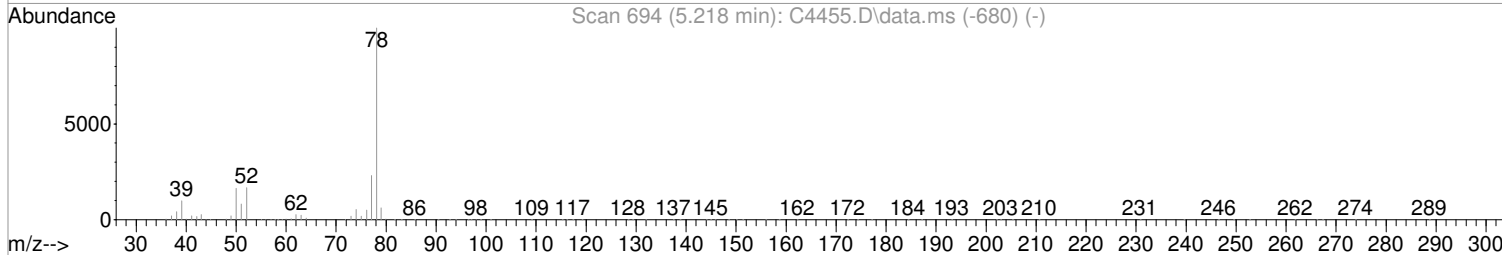
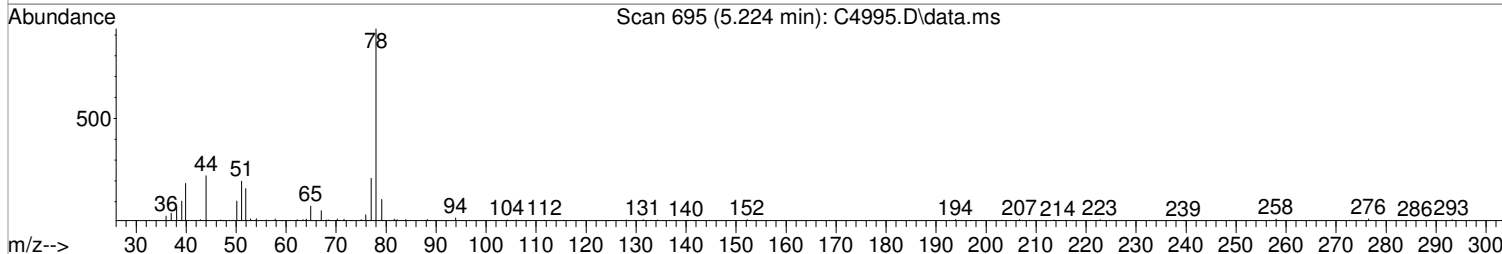
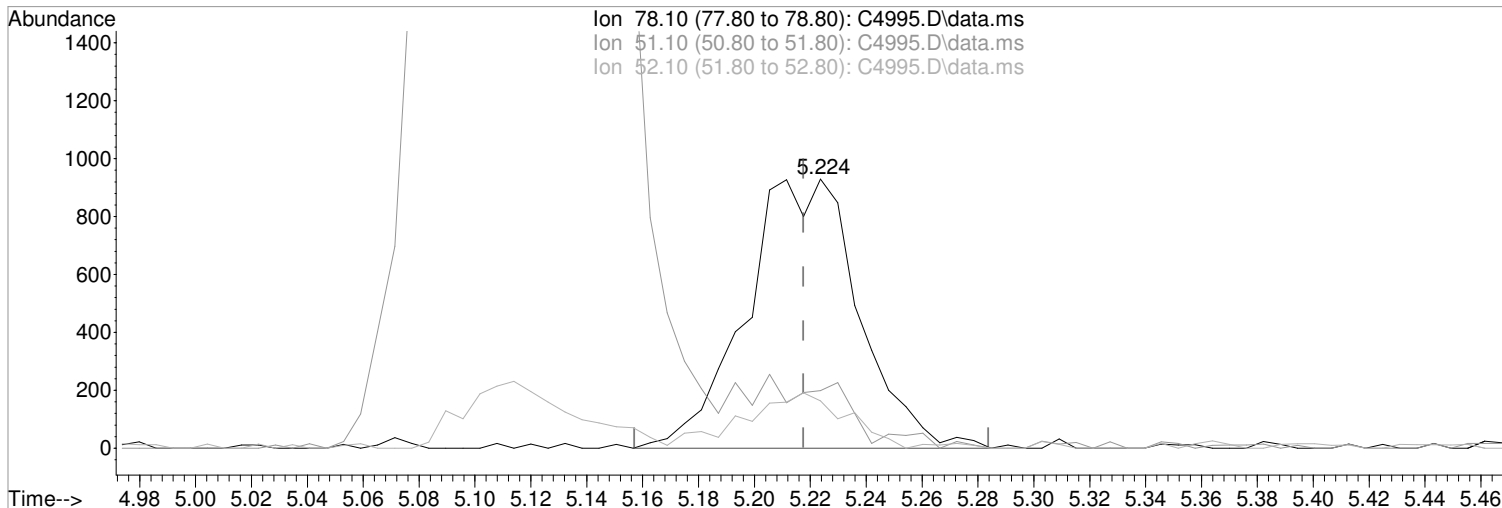
02/16/18



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4995.D  
 Acq On : 16 Feb 2018 1:24 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-005|0.73  
 Misc : DAY 12666 T4  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:42:22 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration



(48) Benzene (P)  
 5.224min (+0.006) 0.33 ug/L m  
 response 2605

Manual Integration:  
 After  
 Poor integration.

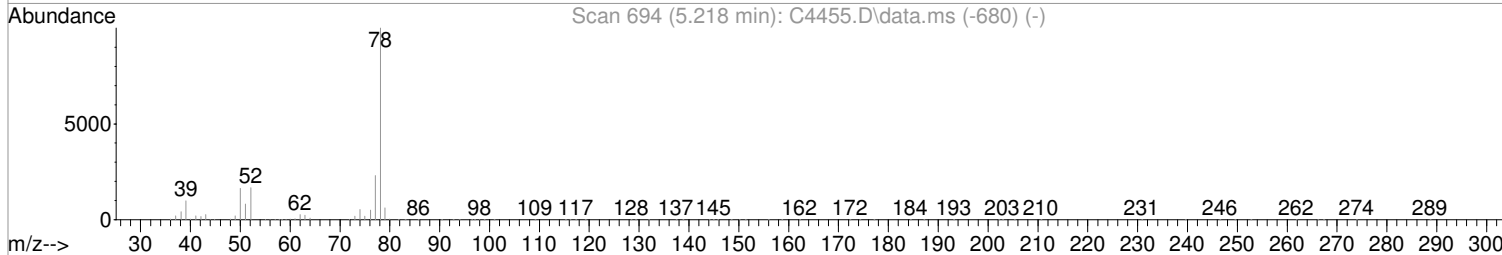
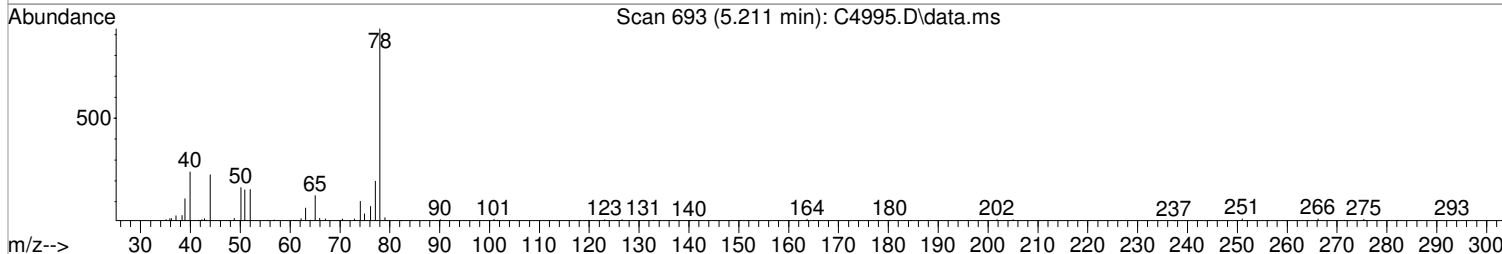
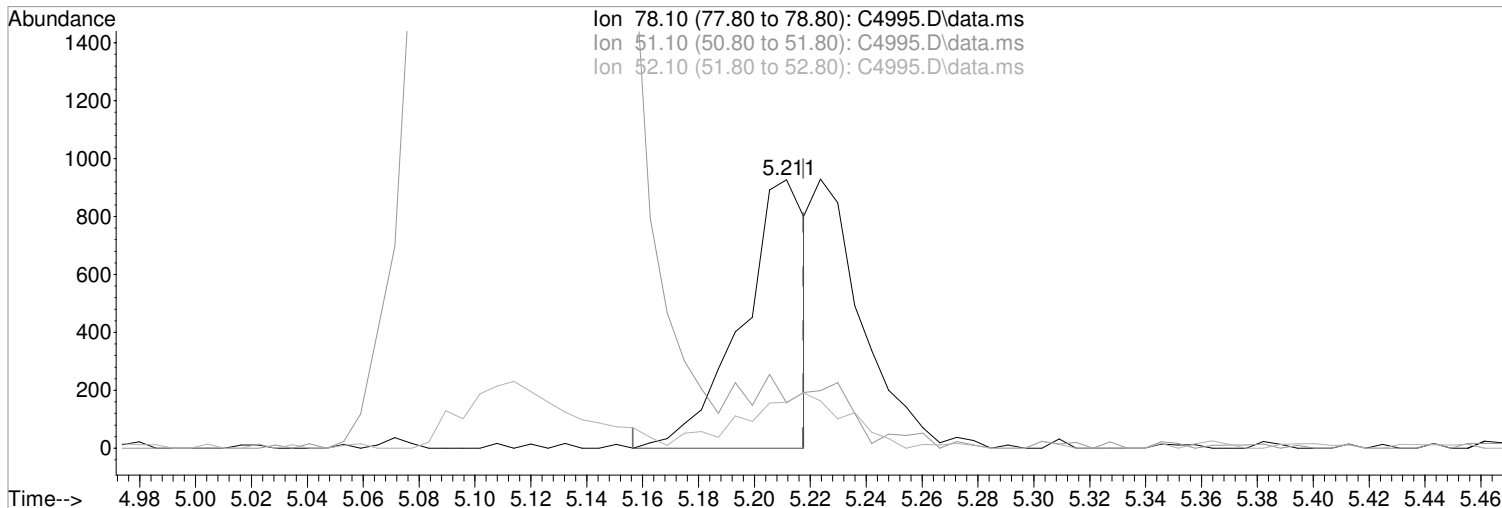
Ion	Exp%	Act%
78.10	100	100
51.10	17.40	21.42
52.10	16.90	17.55
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4995.D  
Acq On : 16 Feb 2018 1:24 pm  
Operator : F. NAEGLER  
Sample : R1801334-005|0.73  
Misc : DAY 12666 T4  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 13:42:22 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(48) Benzene (P)  
5.211min (-0.006) 0.18 ug/L  
response 1469

Manual Integration:  
Before

Ion	Exp%	Act%
78.10	100	100
51.10	17.40	16.94
52.10	16.90	17.15
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4995.D  
 Acq On : 16 Feb 2018 1:24 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-005|0.73 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 16 13:45:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

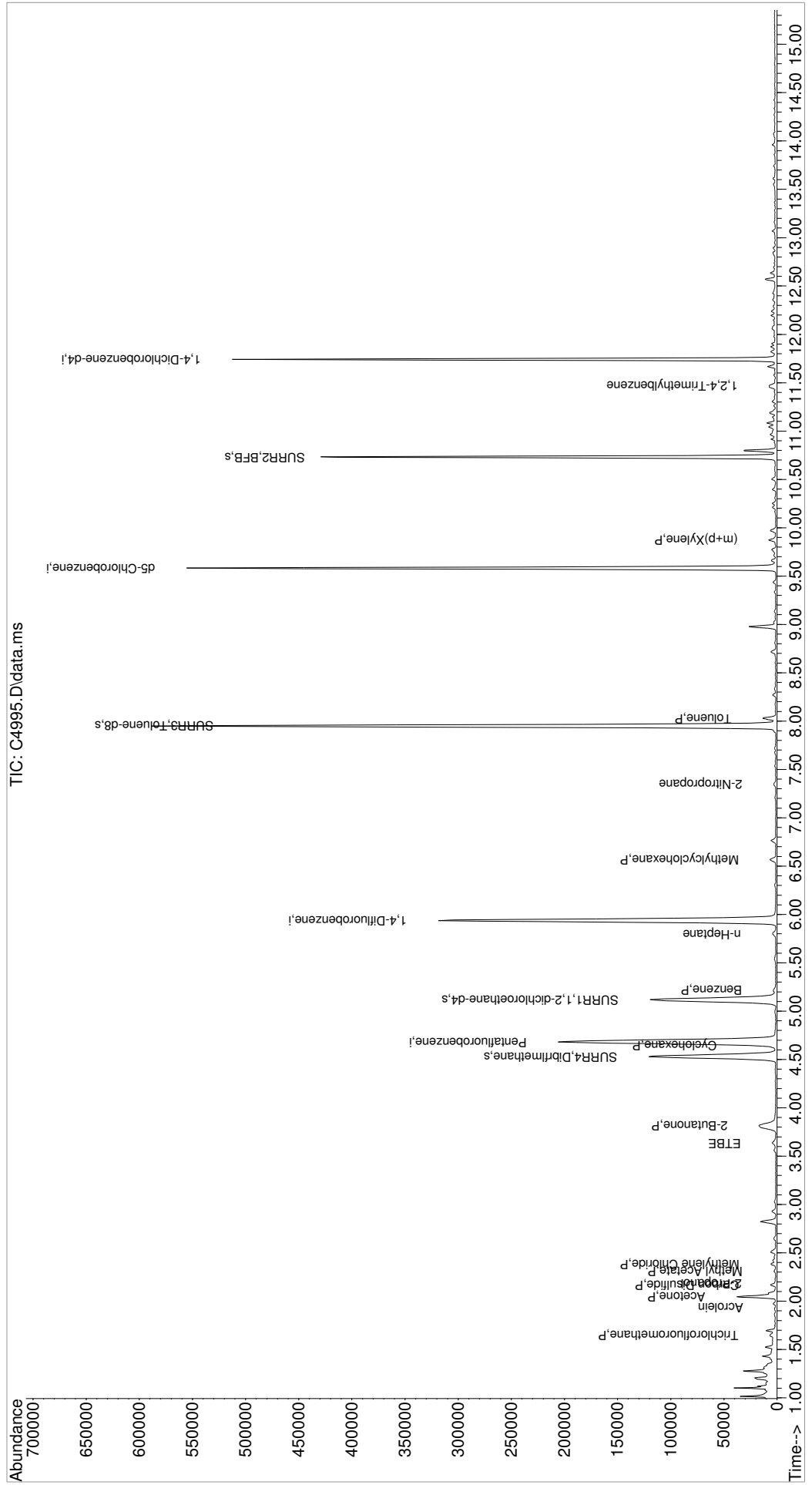
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	202512	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	303339	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	242374	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	90466	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	95270	50.43	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	100.86%	
47) SURR1,1,2-dichloroetha...	5.120	65	120437	53.23	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	106.46%	
64) SURR3,Toluene-d8	7.949	98	365627	50.62	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	101.24%	
69) SURR2,BFB	10.729	95	109702	37.64	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	75.28%	
Target Compounds						
8) Trichlorofluoromethane	1.645	101	1118	0.41	ug/L	98
12) Acrolein	1.932	56	423	0.97	ug/L #	62
15) Acetone	2.047	43	39589	43.14	ug/L	95
16) 2-Propanol	2.182	45	940	4.49	ug/L	76
18) Carbon Disulfide	2.169	76	4445	0.73	ug/L	96
21) Methyl Acetate	2.310	43	1623	0.93	ug/L	99
22) Methylene Chloride	2.383	84	1388	0.66	ug/L	95
31) ETBE	3.633	59	2308	0.33	ug/L	90
34) 2-Butanone	3.821	43	15934	12.84	ug/L	93
43) Cyclohexane	4.645	41	1129m	0.55	ug/L	
48) Benzene	5.224	78	2605m	0.33	ug/L	
51) n-Heptane	5.797	43	2210	0.96	ug/L #	78
54) Methylcyclohexane	6.565	55	1869	0.65	ug/L	94
60) 2-Nitropropane	7.345	41	507	0.79	ug/L #	44
65) Toluene	8.028	91	7428	0.85	ug/L	97
80) (m+p)Xylene	9.869	106	1615	0.46	ug/L #	66
96) 1,2,4-Trimethylbenzene	11.466	105	2695	0.51	ug/L	81

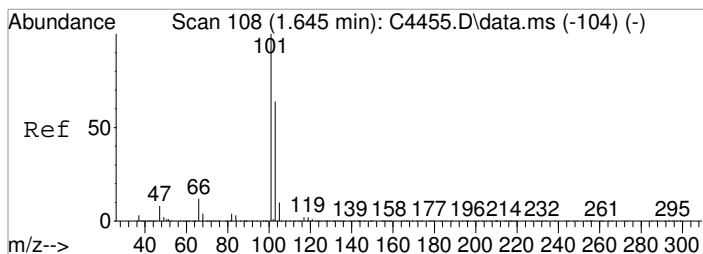
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4995.D  
 Acq On : 16 Feb 2018 1:24 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-005|0.73  
 Misc : DAY 12666 T4  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

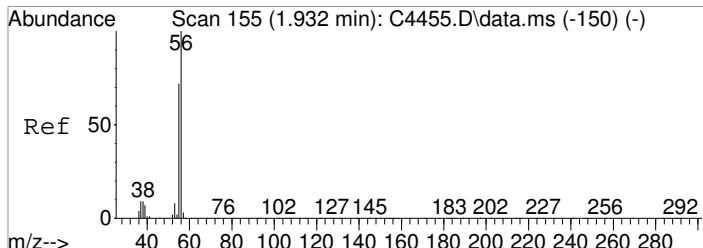
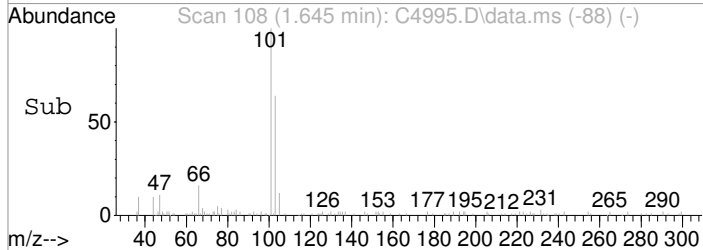
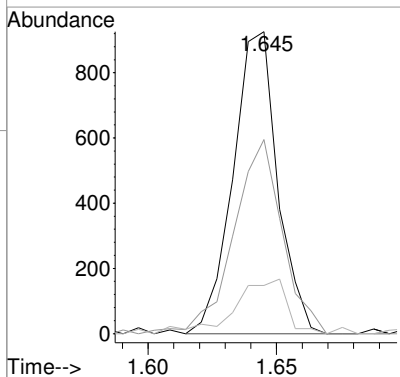
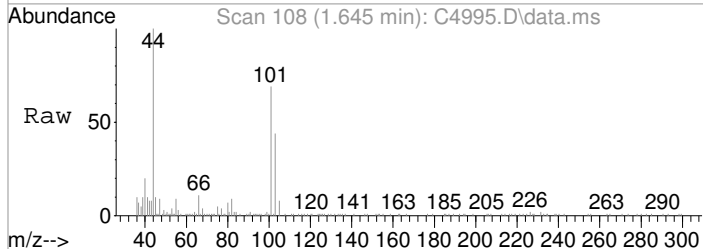
Quant Time: Feb 16 13:45:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





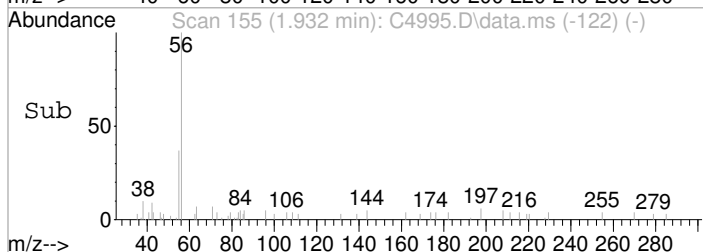
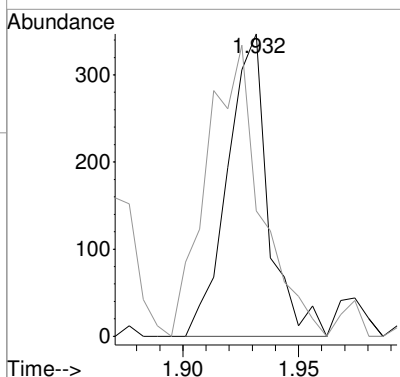
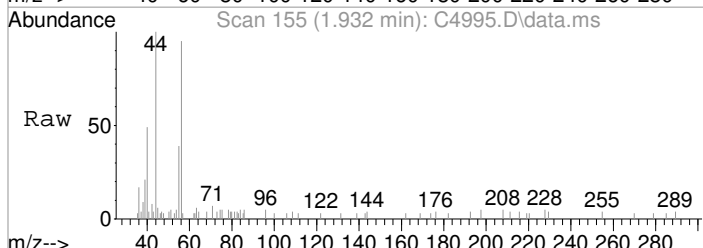
#8  
 Trichlorofluoromethane  
 Concen: 0.41 ug/L  
 RT: 1.645 min Scan# 108  
 Delta R.T. 0.000 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

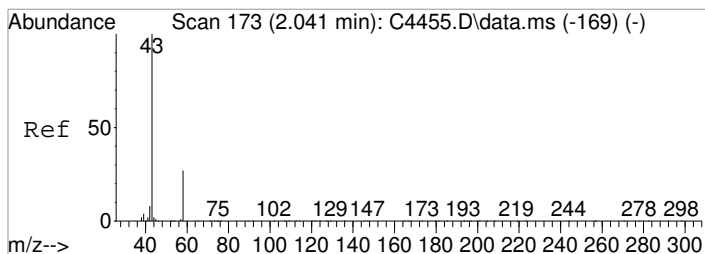
Tgt Ion	Resp	Lower	Upper
101	1118		
103	64.3	44.0	84.0
66	17.2	0.0	32.9



#12  
 Acrolein  
 Concen: 0.97 ug/L  
 RT: 1.932 min Scan# 155  
 Delta R.T. 0.000 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

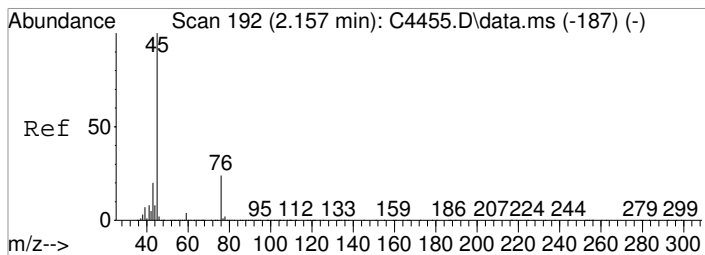
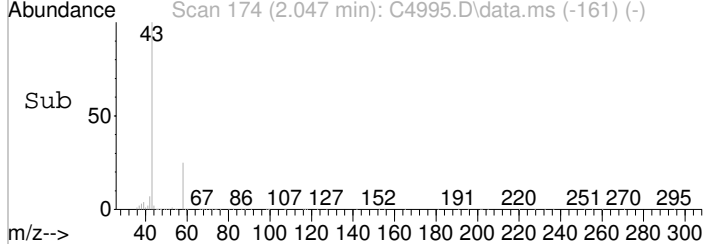
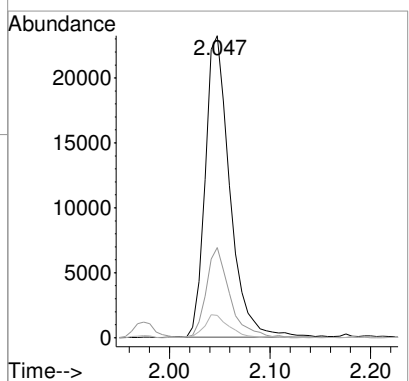
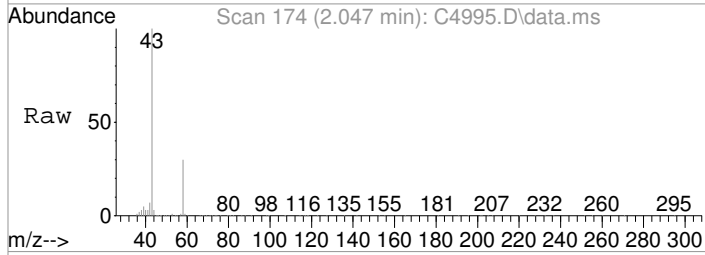
Tgt Ion	Resp	Lower	Upper
56	423		
55	40.3	52.3	92.3#





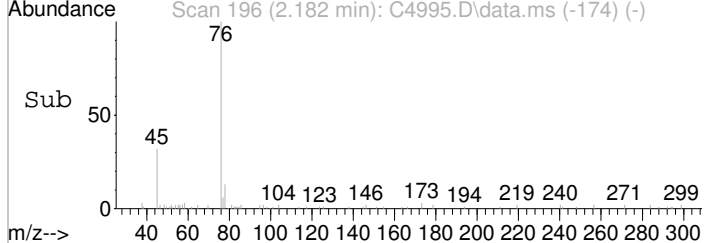
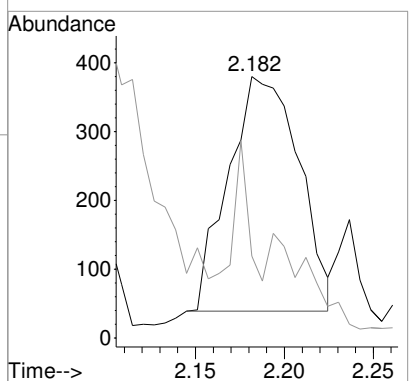
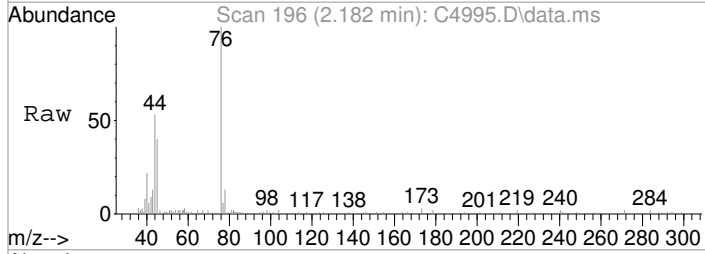
#15  
 Acetone  
 Concen: 43.14 ug/L  
 RT: 2.047 min Scan# 174  
 Delta R.T. 0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

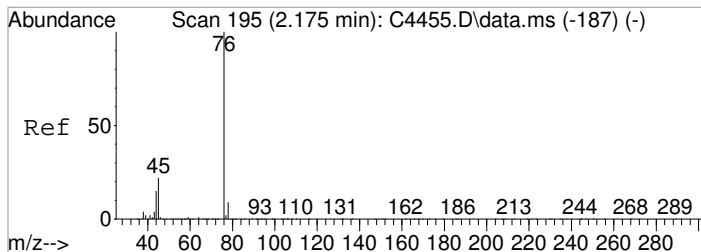
Tgt Ion	Resp	Lower	Upper
43	39589		
58	29.9	7.1	47.1
42	7.4	0.0	28.6



#16  
 2-Propanol  
 Concen: 4.49 ug/L  
 RT: 2.182 min Scan# 196  
 Delta R.T. 0.024 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

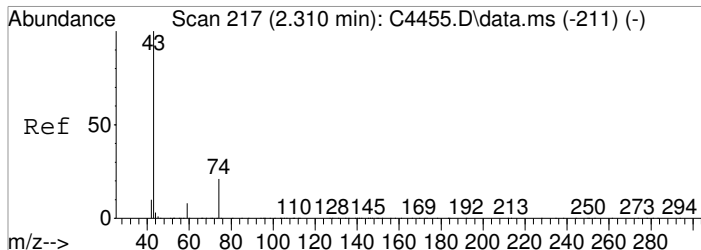
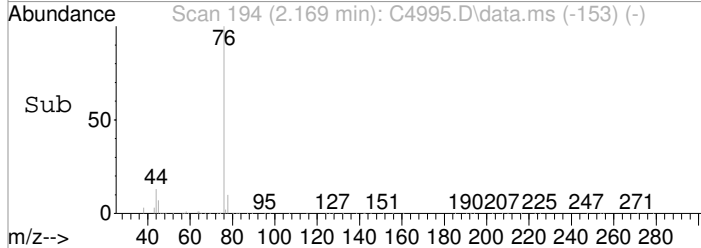
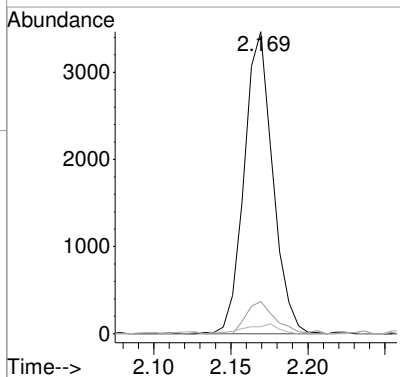
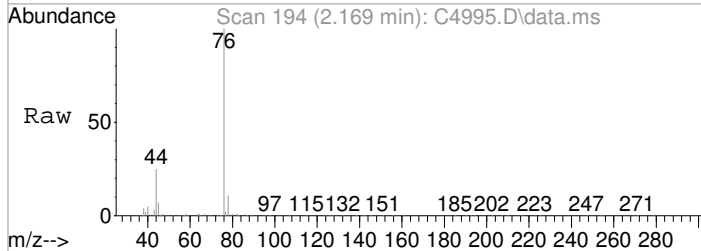
Tgt Ion	Resp	Lower	Upper
45	940		
43	31.3	0.1	40.1





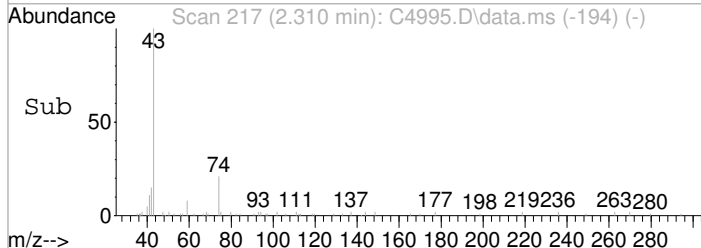
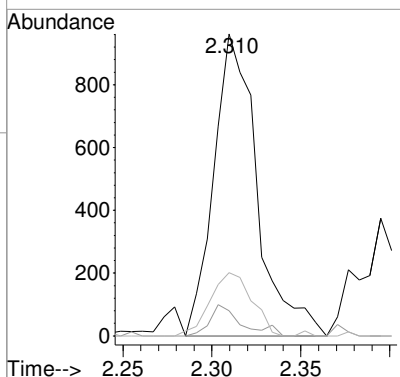
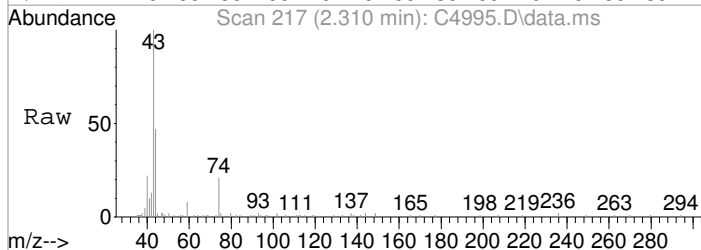
#18  
 Carbon Disulfide  
 Concen: 0.73 ug/L  
 RT: 2.169 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

Tgt Ion	Resp	Lower	Upper
76	100		
78	10.7	0.0	28.9
77	2.3	0.0	22.4

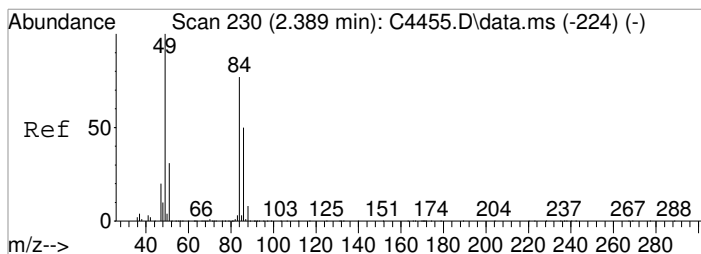


#21  
 Methyl Acetate  
 Concen: 0.93 ug/L  
 RT: 2.310 min Scan# 217  
 Delta R.T. 0.000 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

Tgt Ion	Resp	Lower	Upper
43	100		
59	8.3	0.0	27.7
74	20.9	1.0	41.0

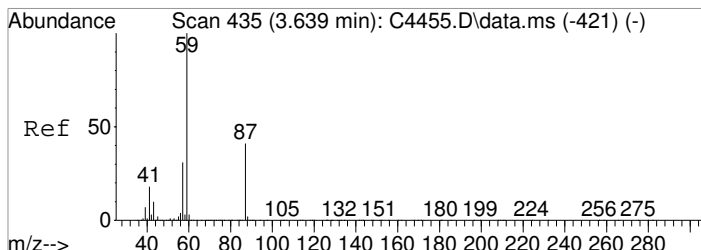
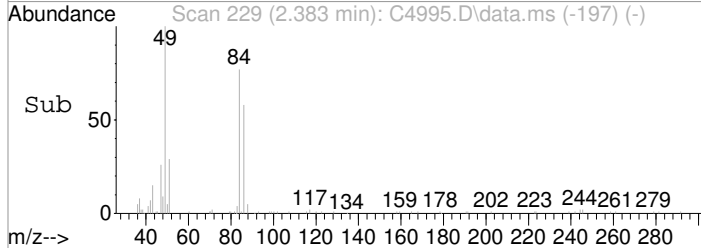
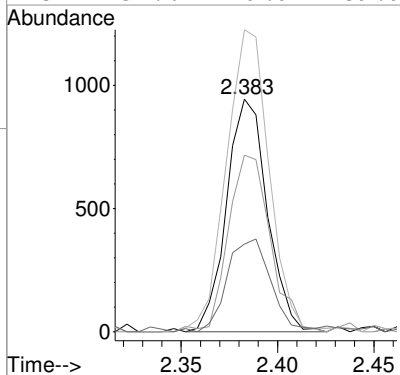
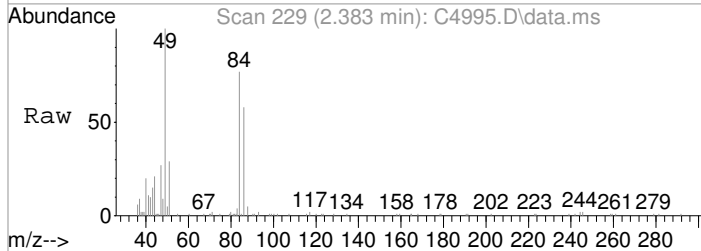






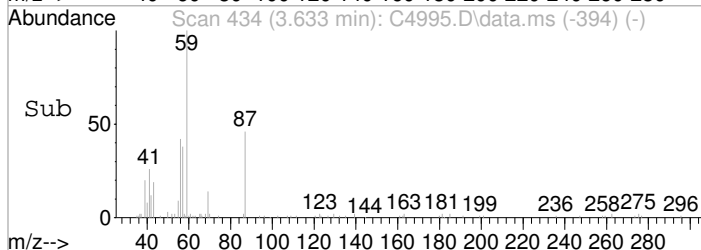
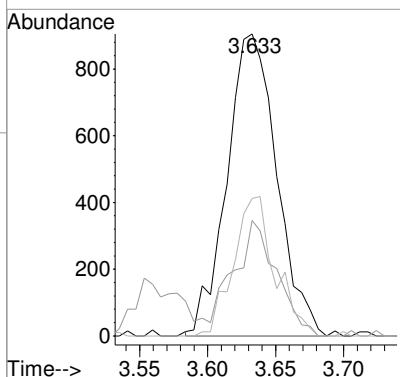
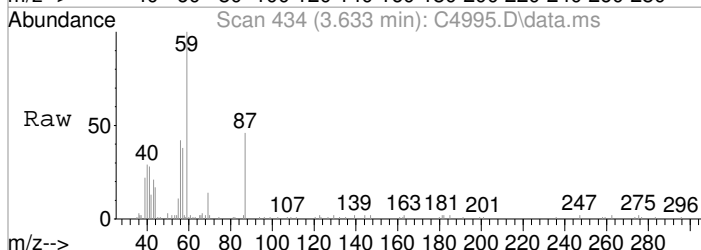
#22  
 Methylene Chloride  
 Concen: 0.66 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

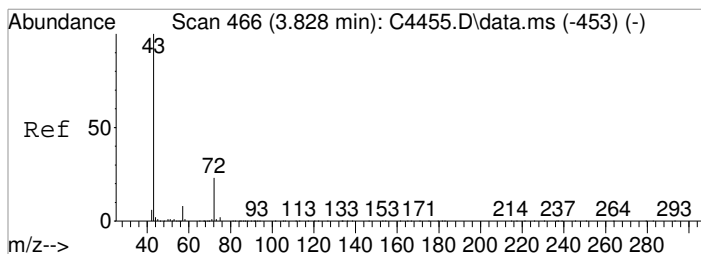
Tgt Ion:	84	Resp:	1388
Ion Ratio	Lower	Upper	
84	100		
86	76.0	43.9	83.9
49	129.9	109.1	149.1
51	37.6	19.9	59.9



#31  
 ETBE  
 Concen: 0.33 ug/L  
 RT: 3.633 min Scan# 434  
 Delta R.T. -0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

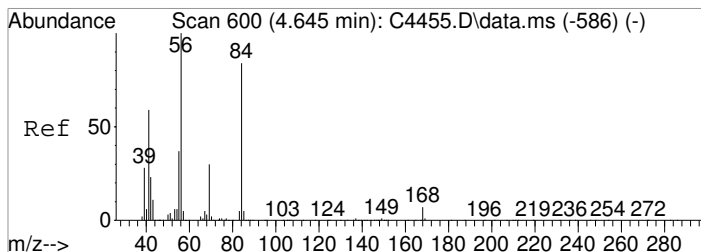
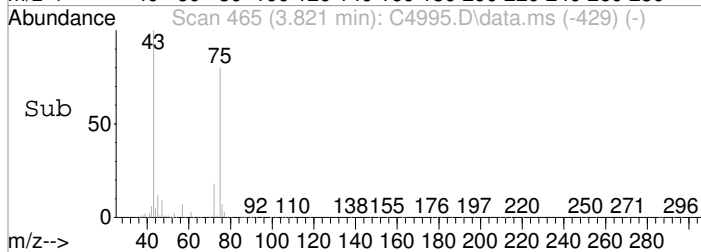
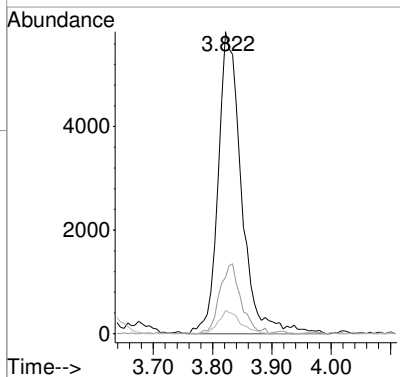
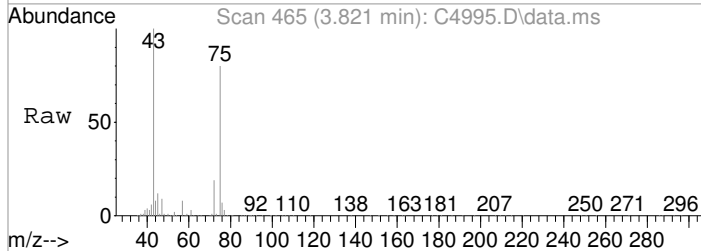
Tgt Ion:	59	Resp:	2308
Ion Ratio	Lower	Upper	
59	100		
57	39.9	11.5	51.5
87	45.5	21.4	61.4





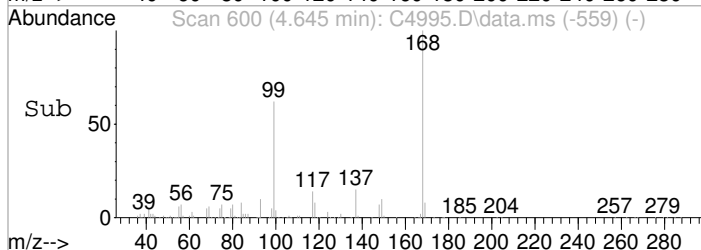
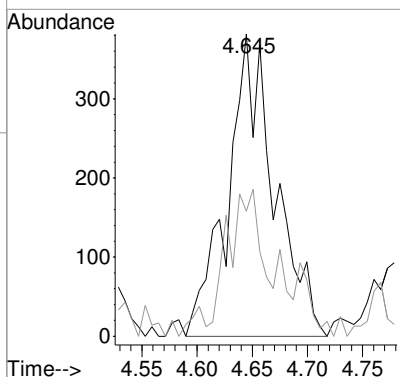
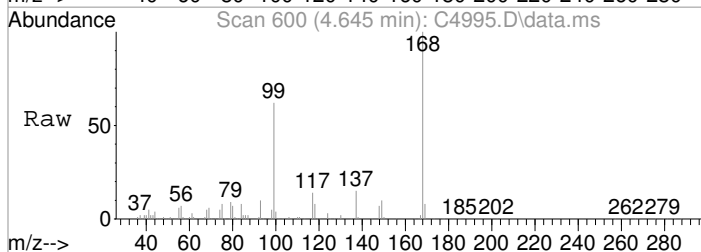
#34  
 2-Butanone  
 Concen: 12.84 ug/L  
 RT: 3.821 min Scan# 465  
 Delta R.T. -0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

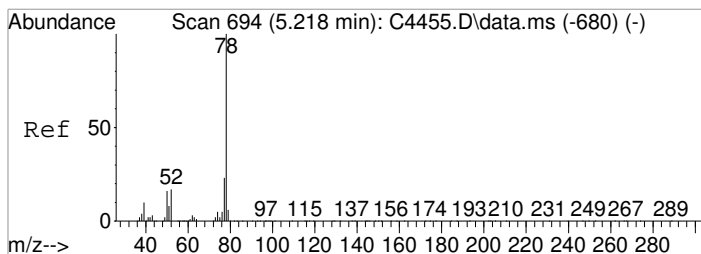
Tgt Ion	Resp	Lower	Upper
43	15934		
72	18.8	3.3	43.3
57	7.8	0.0	28.0



#43  
 Cyclohexane  
 Concen: 0.55 ug/L m  
 RT: 4.645 min Scan# 600  
 Delta R.T. 0.000 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

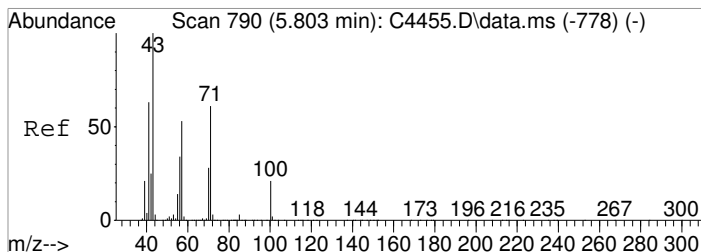
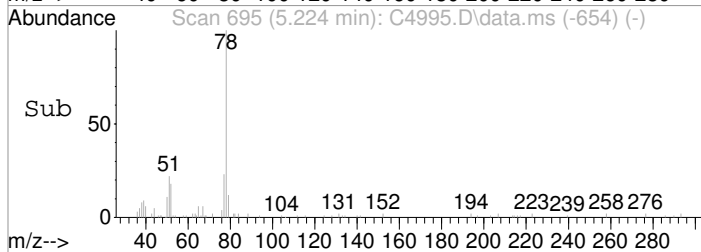
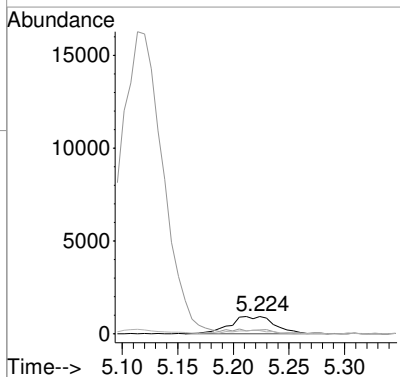
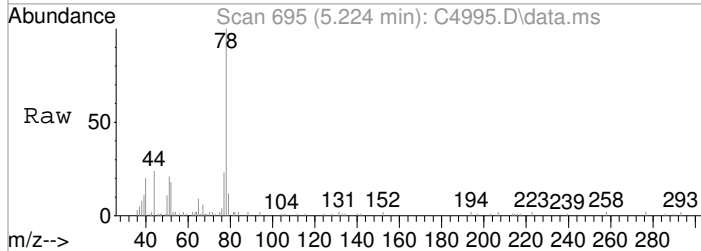
Tgt Ion	Resp	Lower	Upper
41	1129		
39	41.4	28.0	68.0





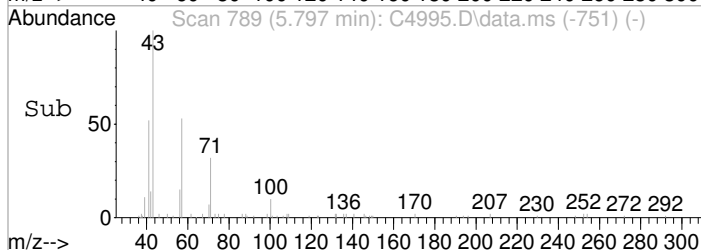
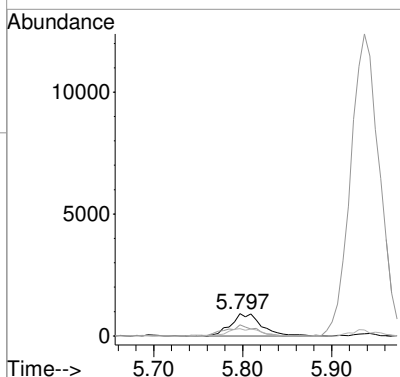
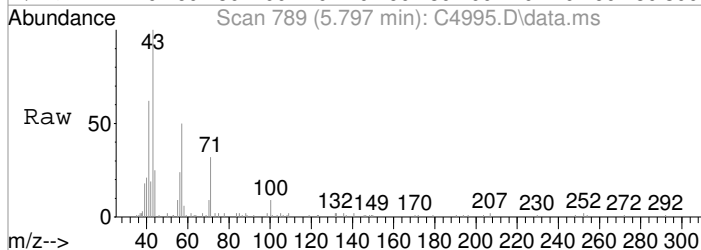
#48  
 Benzene  
 Concen: 0.33 ug/L m  
 RT: 5.224 min Scan# 695  
 Delta R.T. 0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

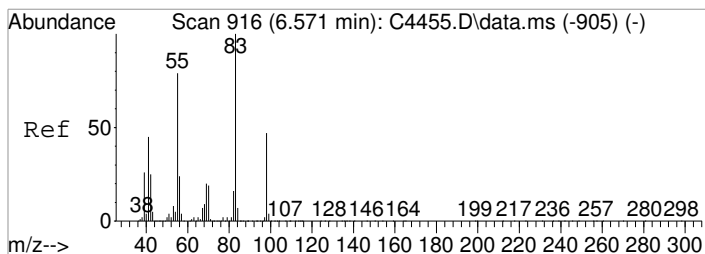
Tgt Ion	Resp	Lower	Upper
78	100		
51	21.4	0.0	37.4
52	17.5	0.0	36.9



#51  
 n-Heptane  
 Concen: 0.96 ug/L  
 RT: 5.797 min Scan# 789  
 Delta R.T. -0.005 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

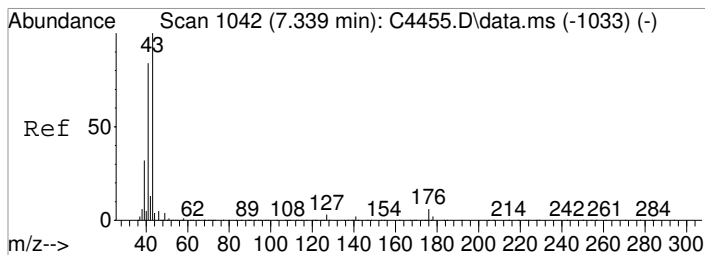
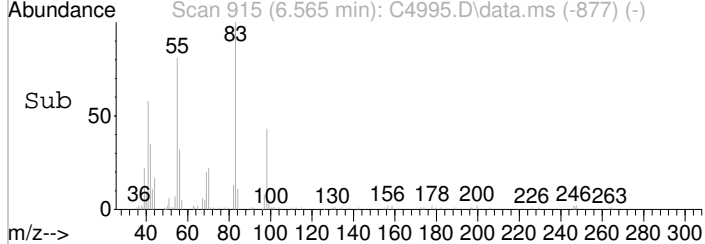
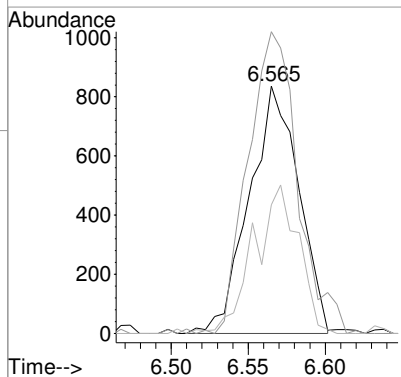
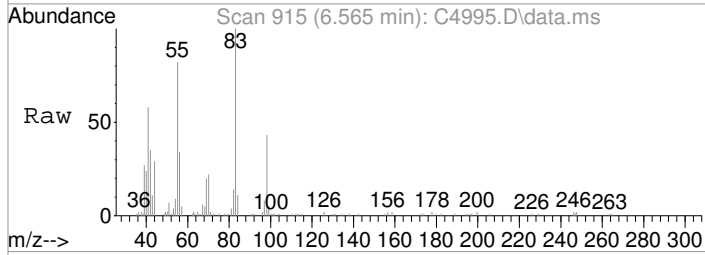
Tgt Ion	Resp	Lower	Upper
43	100		
57	50.3	33.3	73.3
71	32.1	40.9	80.9#





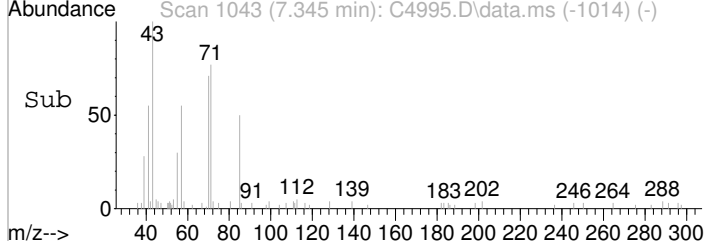
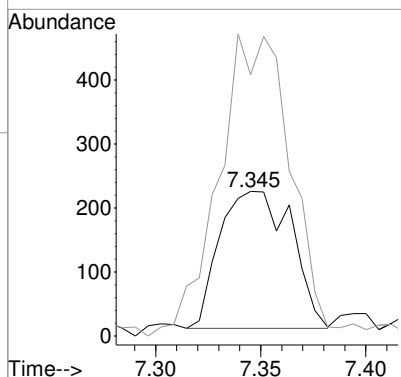
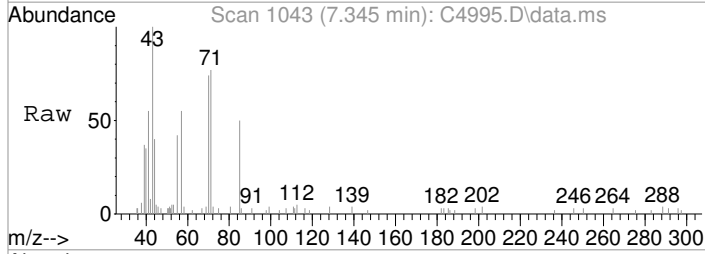
#54  
 Methylcyclohexane  
 Concen: 0.65 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

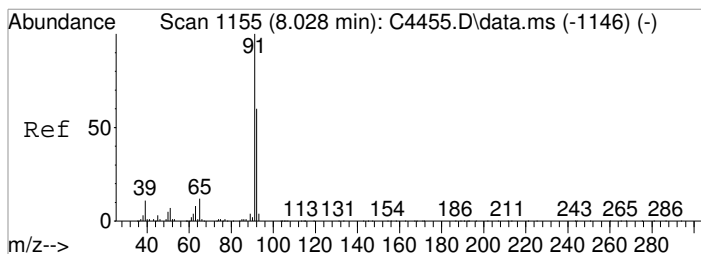
Tgt Ion	Resp	Lower	Upper
55	100		
83	122.0	106.2	146.2
98	52.0	39.7	79.7



#60  
 2-Nitropropane  
 Concen: 0.79 ug/L  
 RT: 7.345 min Scan# 1043  
 Delta R.T. 0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

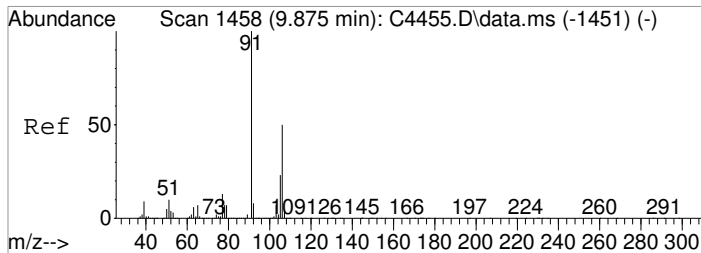
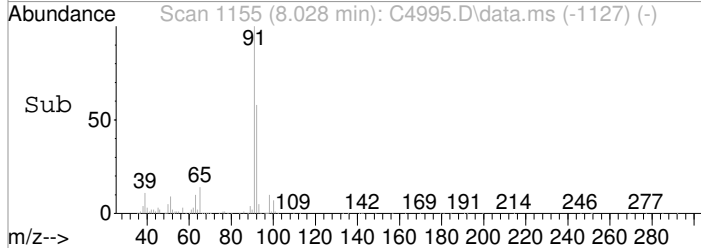
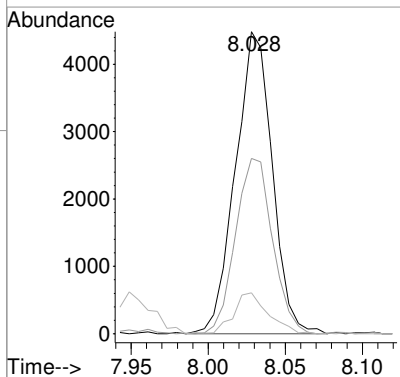
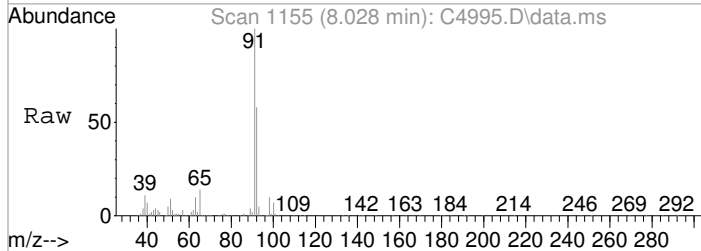
Tgt Ion	Resp	Lower	Upper
41	100		
43	180.5	98.6	138.6#





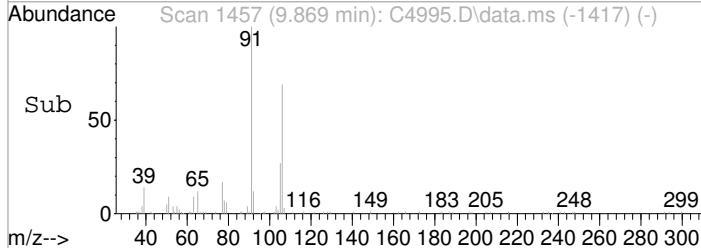
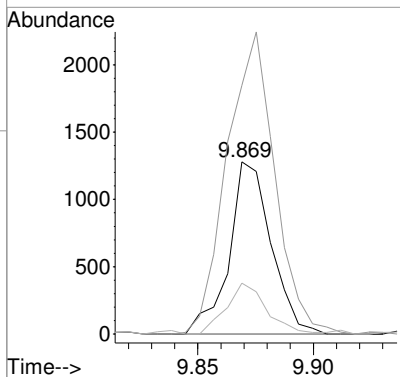
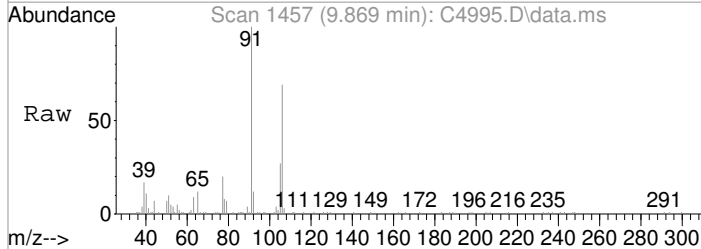
#65  
 Toluene  
 Concen: 0.85 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

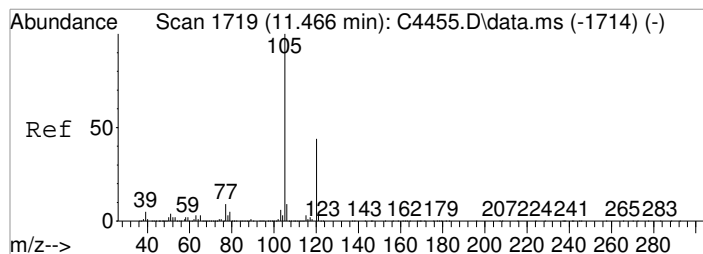
Tgt Ion	Resp	Lower	Upper
91	100		
92	58.0	39.7	79.7
65	13.6	0.0	31.9



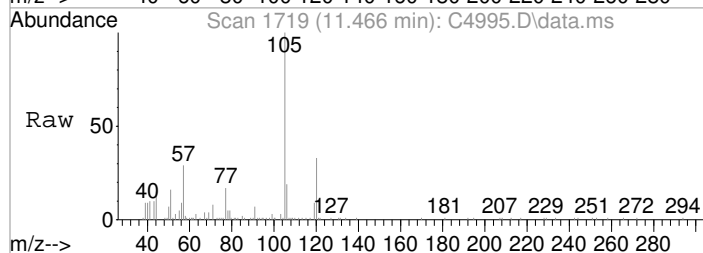
#80  
 (m+p)Xylene  
 Concen: 0.46 ug/L  
 RT: 9.869 min Scan# 1457  
 Delta R.T. -0.006 min  
 Lab File: C4995.D  
 Acq: 16 Feb 2018 1:24 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	144.5	180.9	220.9#
77	29.6	5.7	45.7

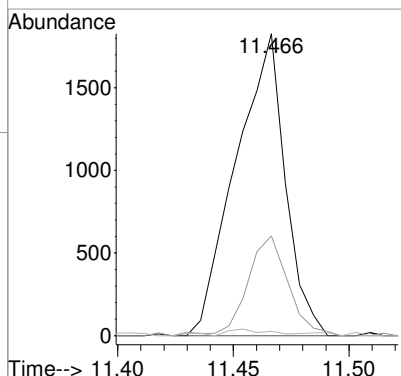
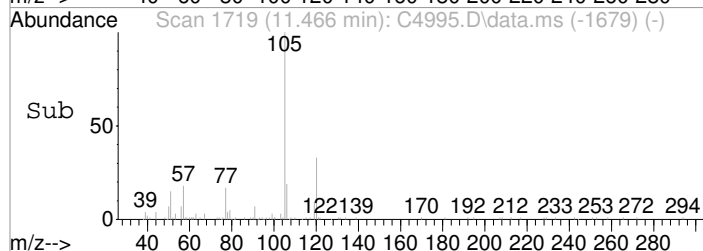




#96  
1,2,4-Trimethylbenzene  
Concen: 0.51 ug/L  
RT: 11.466 min Scan# 1719  
Delta R.T. 0.000 min  
Lab File: C4995.D  
Acq: 16 Feb 2018 1:24 pm



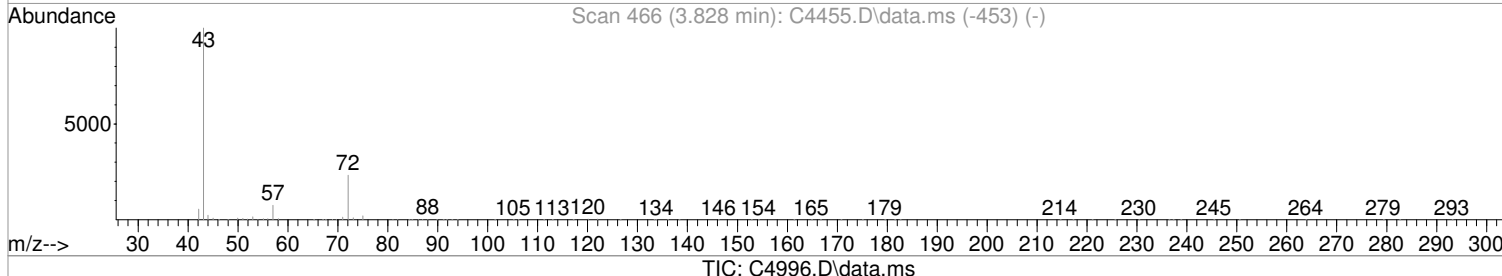
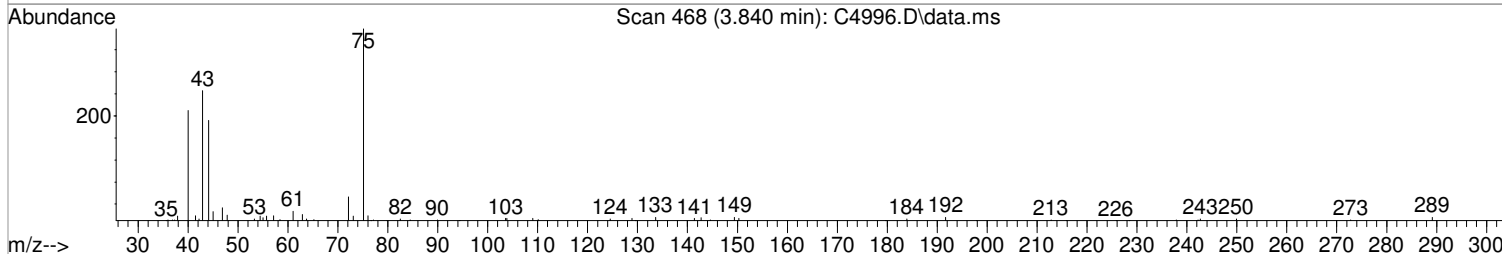
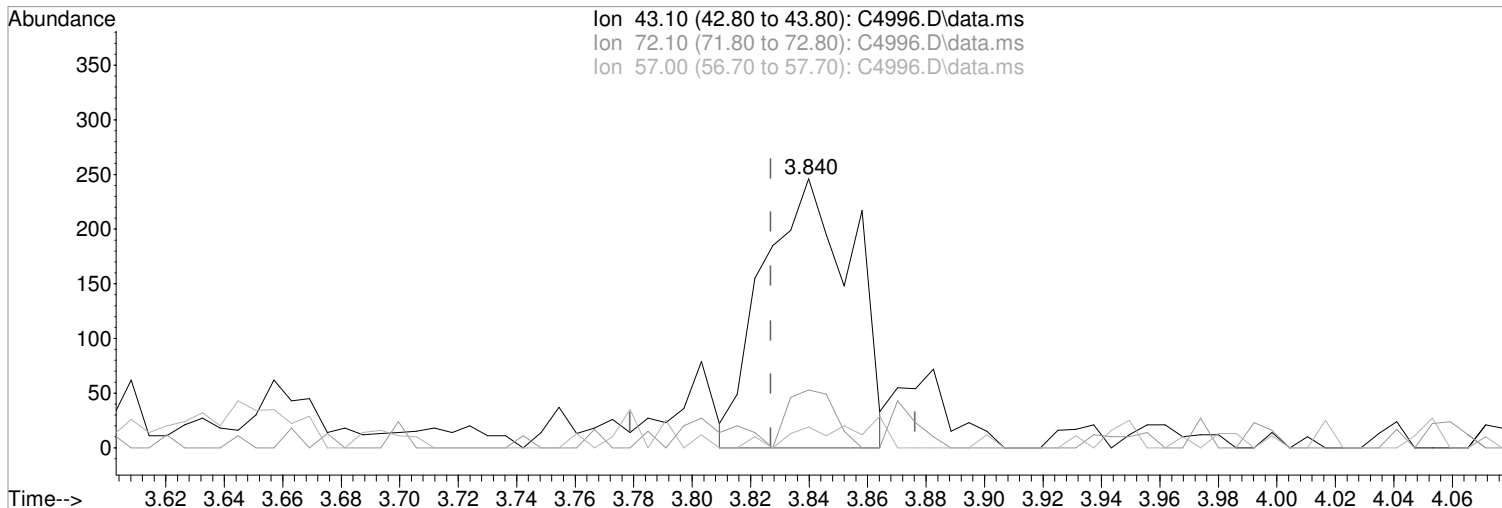
Tgt Ion	Resp	Lower	Upper
105	100		
120	33.1	26.3	66.3
65	1.4	0.0	24.4



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4996.D  
Acq On : 16 Feb 2018 1:47 pm  
Operator : F. NAEGLER  
Sample : R1801334-006|0.66  
Misc : DAY 12666 T4  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 14:12:38 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(34) 2-Butanone (P)  
3.840min (+0.013) 0.44 ug/L m  
response 522

Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
43.10	100	100
72.10	23.30	21.54
57.00	8.00	7.72
0.00	0.00	0.00

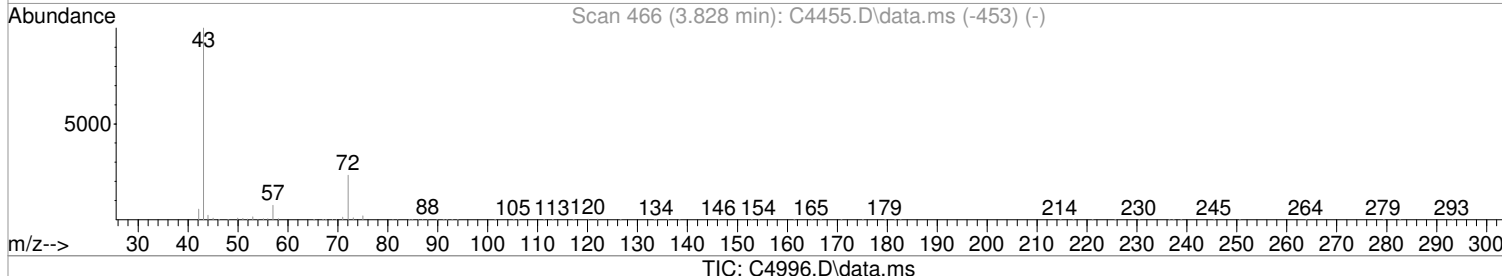
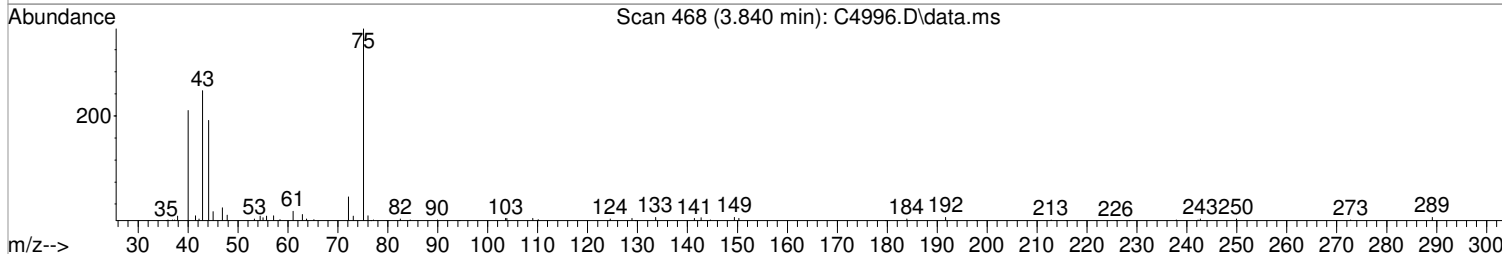
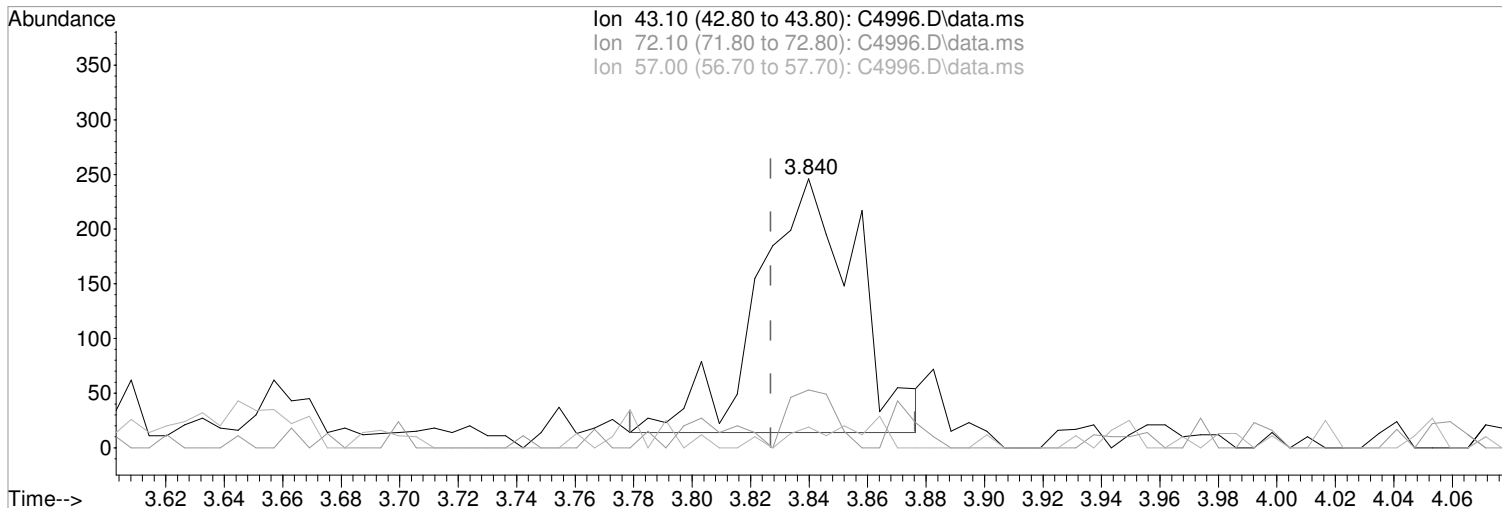
02/16/18



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4996.D  
Acq On : 16 Feb 2018 1:47 pm  
Operator : F. NAEGLER  
Sample : R1801334-006|0.66  
Misc : DAY 12666 T4  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 14:12:38 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(34) 2-Butanone (P)  
3.840min (+0.013) 0.46 ug/L  
response 548

Manual Integration:  
Before

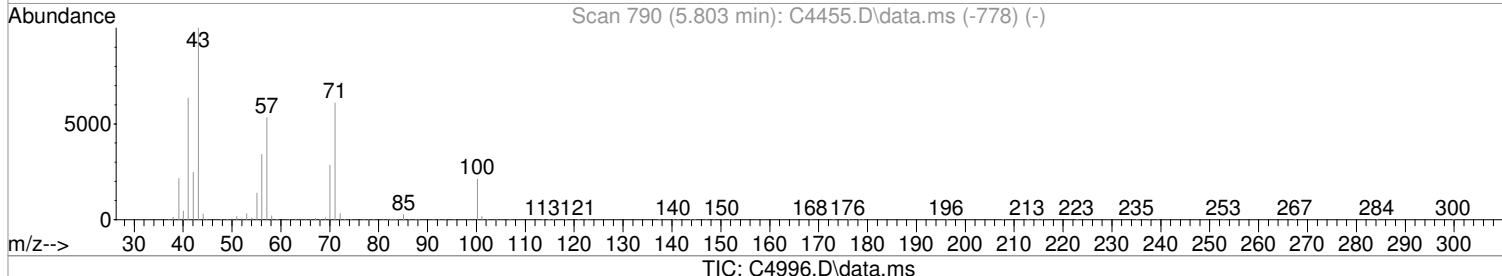
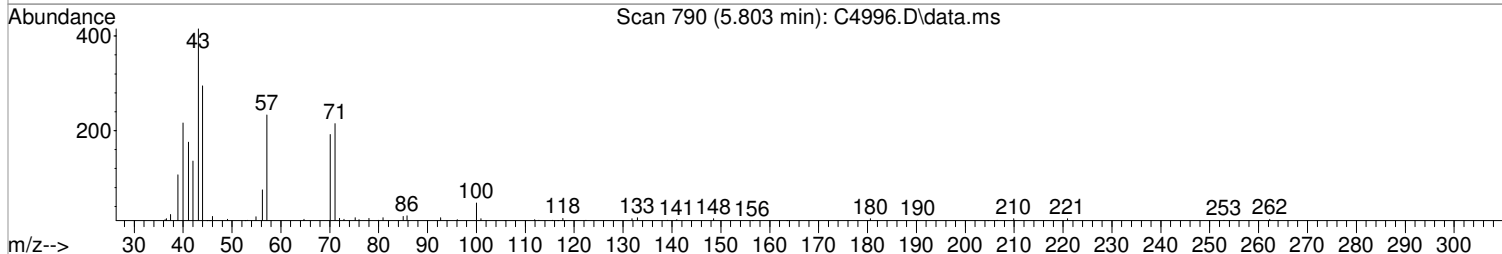
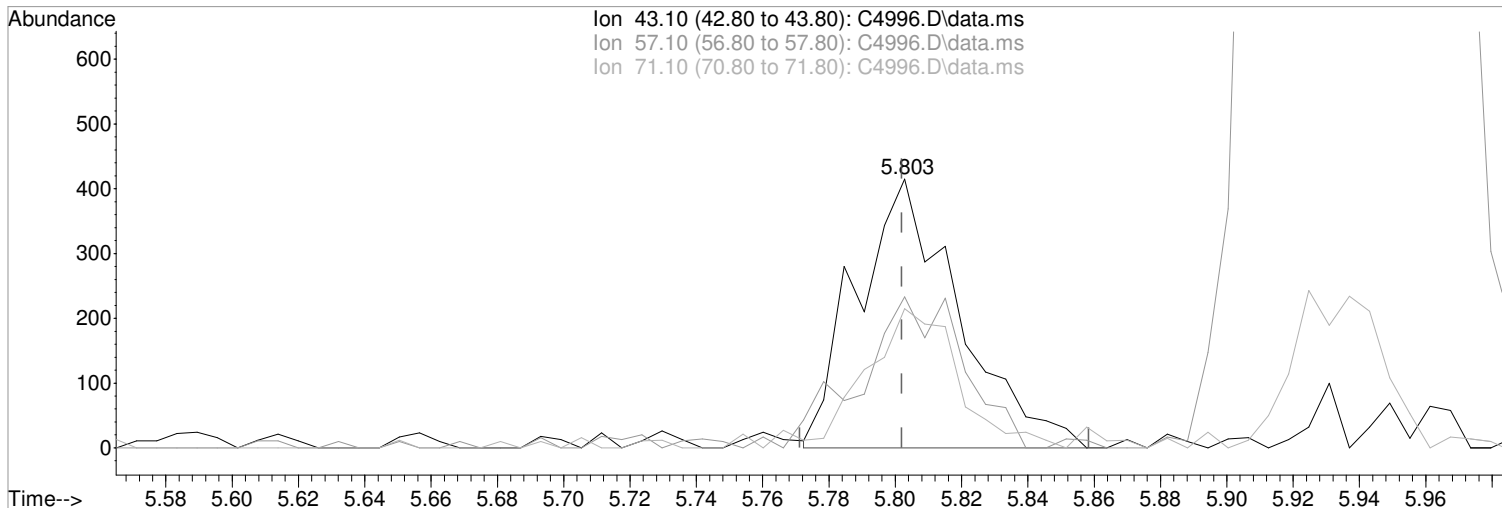
Ion	Exp%	Act%
43.10	100	100
72.10	23.30	21.54
57.00	8.00	7.72
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4996.D  
Acq On : 16 Feb 2018 1:47 pm  
Operator : F. NAEGLER  
Sample : R1801334-006|0.66  
Misc : DAY 12666 T4  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 14:12:38 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(51) n-Heptane  
5.803min (+0.001) 0.39 ug/L m  
response 886

Manual Integration:  
After  
Peak not found.

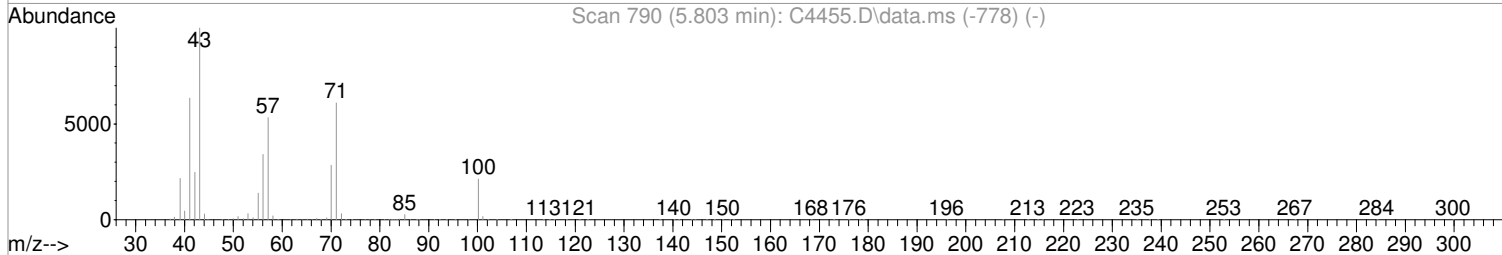
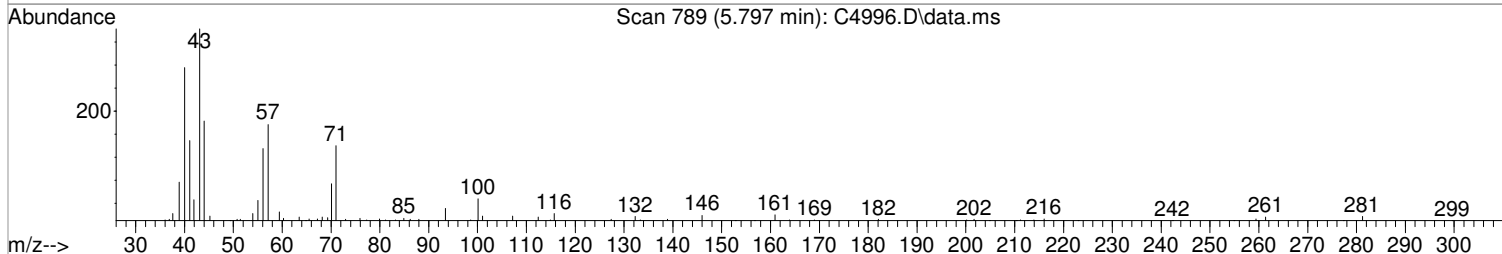
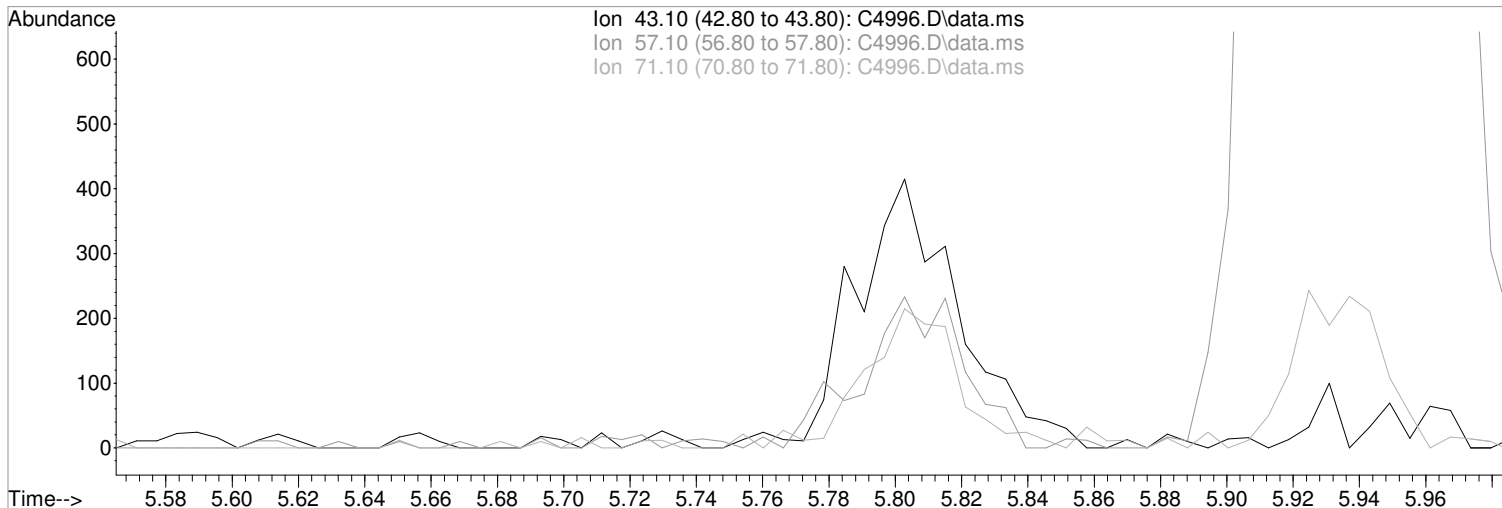
Ion	Exp%	Act%
43.10	100	100
57.10	53.30	56.14
71.10	60.90	51.81
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4996.D  
Acq On : 16 Feb 2018 1:47 pm  
Operator : F. NAEGLER  
Sample : R1801334-006|0.66  
Misc : DAY 12666 T4  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 14:12:38 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(51) n-Heptane  
5.802min (-5.802) 0.00 ug/L  
response 0

Manual Integration:  
Before

Ion	Exp%	Act%
43.10	100	0.00
57.10	53.30	0.00#
71.10	60.90	0.00#
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4996.D  
 Acq On : 16 Feb 2018 1:47 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-006|0.66 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 16 14:14:57 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

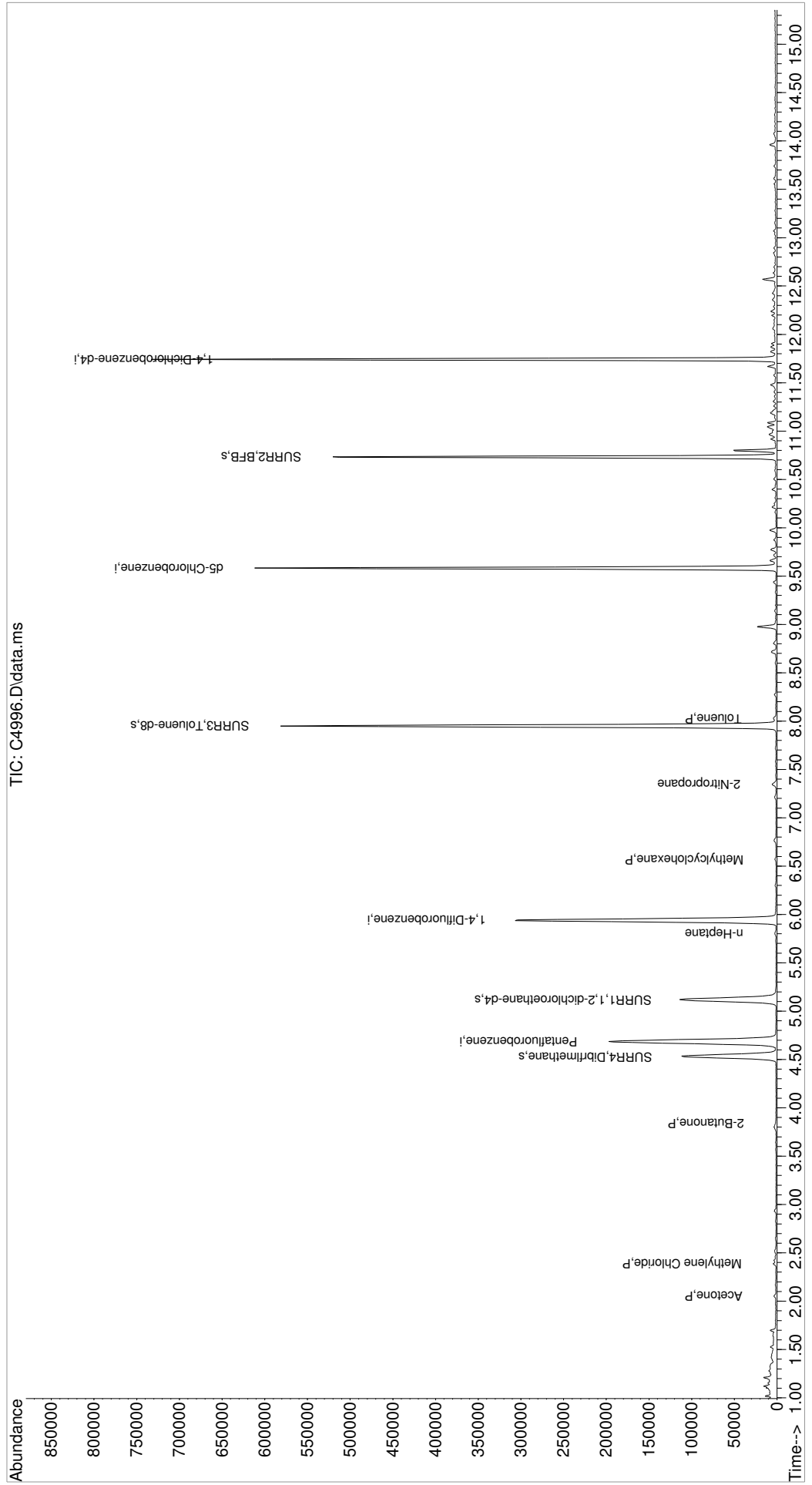
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	194449	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	296326	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	260049	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	135337	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	88516	47.97	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	95.94%		
47) SURR1,1,2-dichloroetha...	5.114	65	116569	52.74	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	105.48%		
64) SURR3,Toluene-d8	7.949	98	358872	50.86	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.72%		
69) SURR2,BFB	10.735	95	137112	48.16	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	96.32%		
Target Compounds						
15) Acetone	2.054	43	2596	2.95	ug/L	93
22) Methylene Chloride	2.389	84	1014	0.50	ug/L	94
34) 2-Butanone	3.840	43	522m	0.44	ug/L	
51) n-Heptane	5.803	43	886m	0.39	ug/L	
54) Methylcyclohexane	6.565	55	586	0.21	ug/L #	57
60) 2-Nitropropane	7.345	41	1105	1.75	ug/L #	55
65) Toluene	8.028	91	1699	0.20	ug/L	86

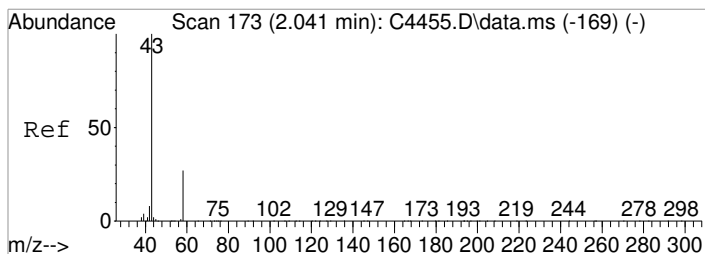
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4996.D  
 Acq On : 16 Feb 2018 1:47 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-006|0.66  
 Misc : DAY 12666 T4  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

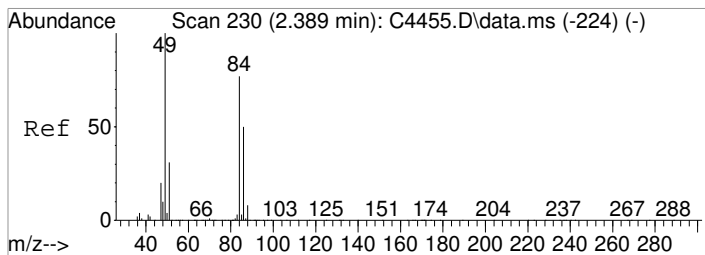
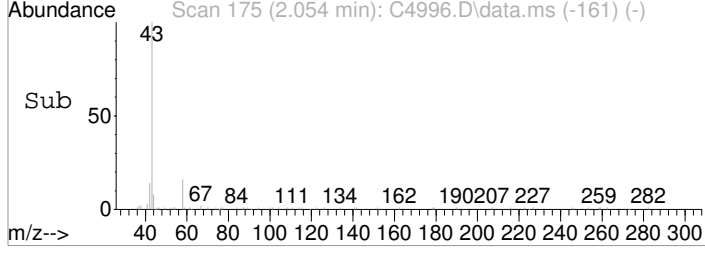
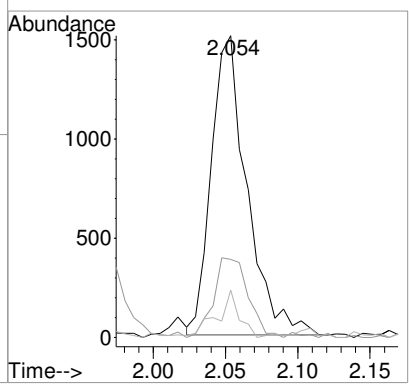
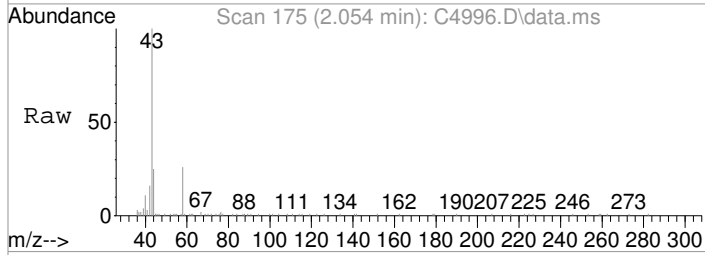
Quant Time: Feb 16 14:14:57 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





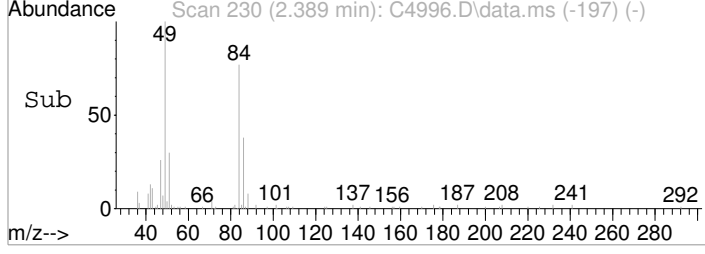
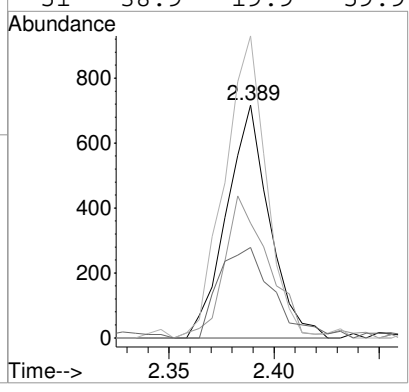
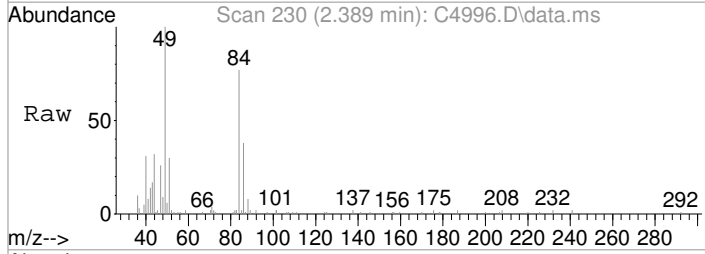
#15  
 Acetone  
 Concen: 2.95 ug/L  
 RT: 2.054 min Scan# 175  
 Delta R.T. 0.013 min  
 Lab File: C4996.D  
 Acq: 16 Feb 2018 1:47 pm

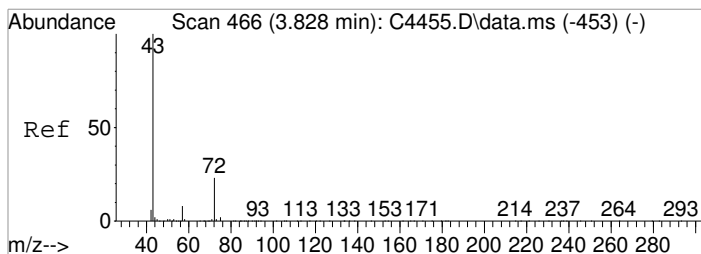
Tgt Ion	Resp	Lower	Upper
43	100		
58	25.9	7.1	47.1
42	15.7	0.0	28.6



#22  
 Methylene Chloride  
 Concen: 0.50 ug/L  
 RT: 2.389 min Scan# 230  
 Delta R.T. 0.000 min  
 Lab File: C4996.D  
 Acq: 16 Feb 2018 1:47 pm

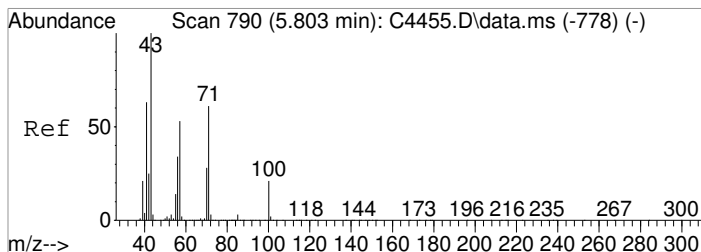
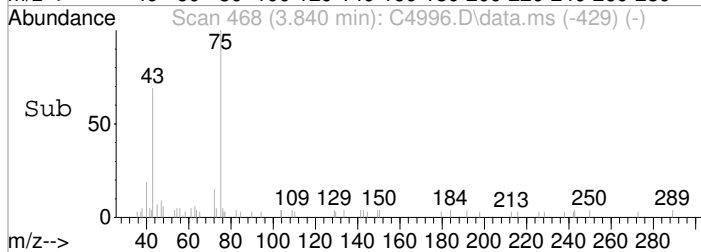
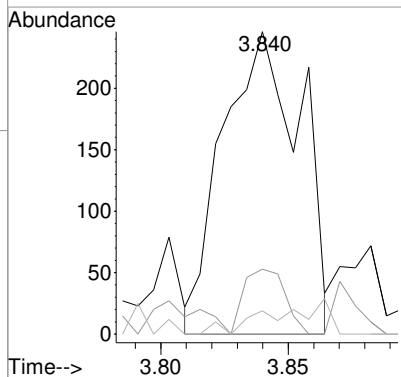
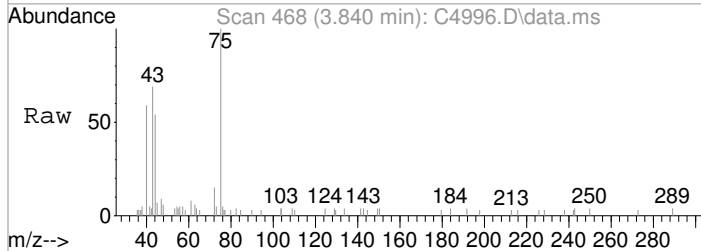
Tgt Ion	Resp	Lower	Upper
84	100		
86	49.2	43.9	83.9
49	129.7	109.1	149.1
51	38.9	19.9	59.9





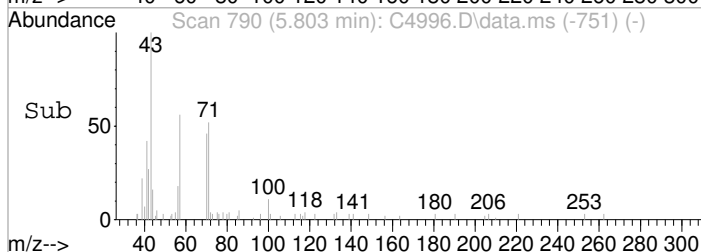
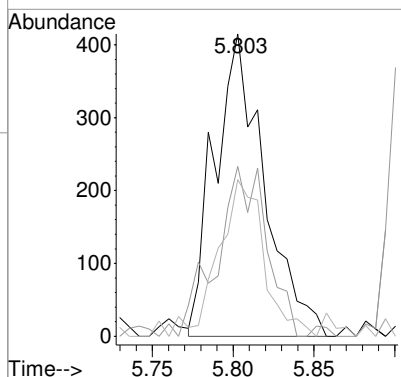
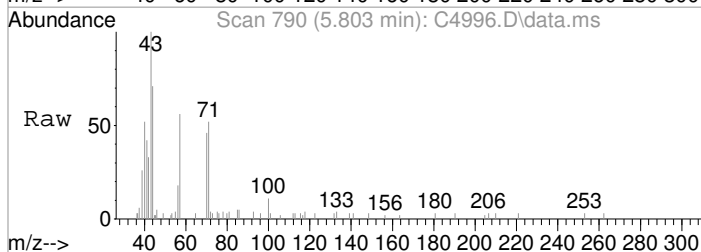
#34  
 2-Butanone  
 Concen: 0.44 ug/L m  
 RT: 3.840 min Scan# 468  
 Delta R.T. 0.013 min  
 Lab File: C4996.D  
 Acq: 16 Feb 2018 1:47 pm

Tgt Ion	Resp	Lower	Upper
43	100		
72	21.5	3.3	43.3
57	7.7	0.0	28.0

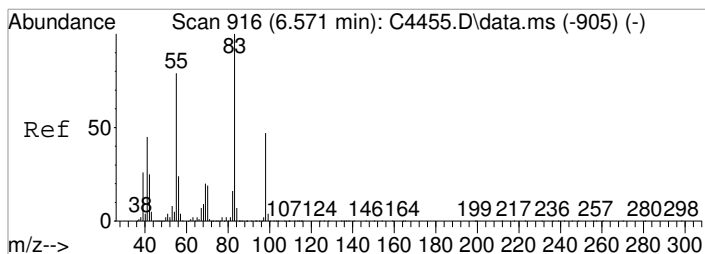


#51  
 n-Heptane  
 Concen: 0.39 ug/L m  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C4996.D  
 Acq: 16 Feb 2018 1:47 pm

Tgt Ion	Resp	Lower	Upper
43	100		
57	56.1	33.3	73.3
71	51.8	40.9	80.9

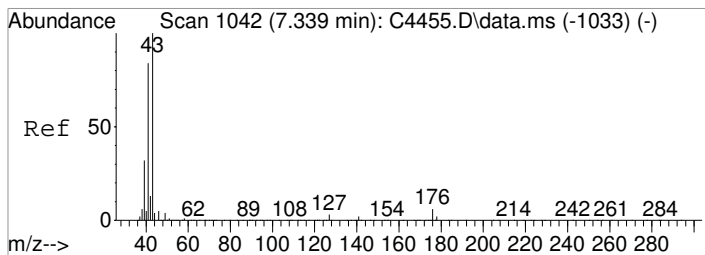
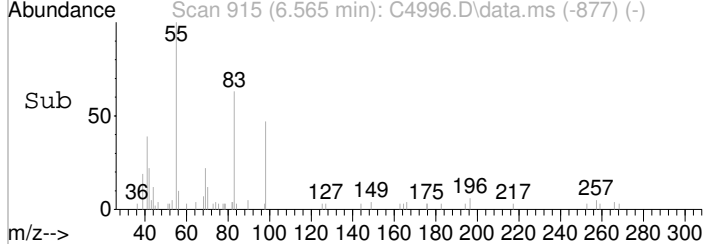
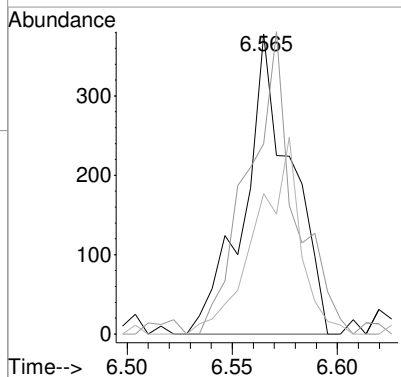
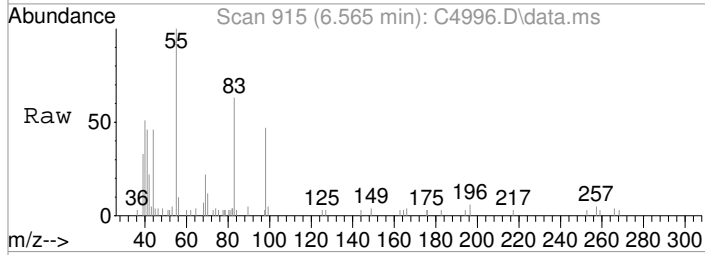






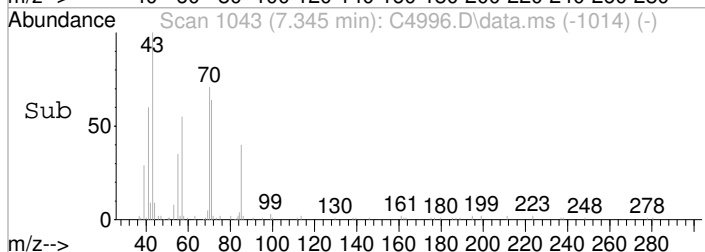
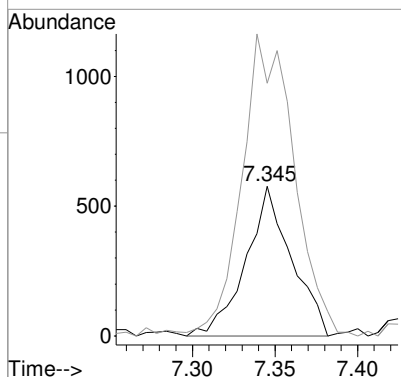
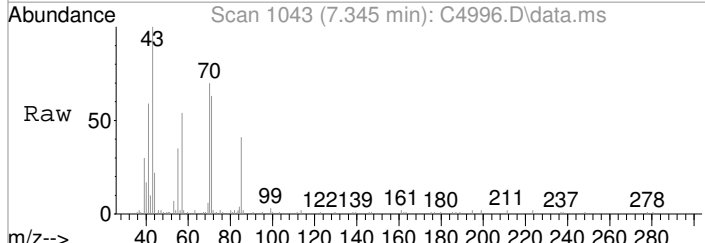
#54  
 Methylcyclohexane  
 Concen: 0.21 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C4996.D  
 Acq: 16 Feb 2018 1:47 pm

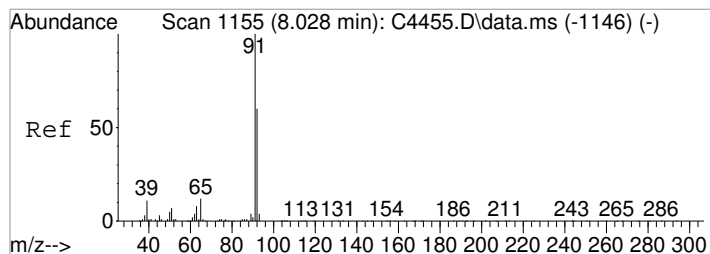
Tgt Ion	Resp	Lower	Upper
55	100		
83	63.5	106.2	146.2#
98	46.8	39.7	79.7



#60  
 2-Nitropropane  
 Concen: 1.75 ug/L  
 RT: 7.345 min Scan# 1043  
 Delta R.T. 0.006 min  
 Lab File: C4996.D  
 Acq: 16 Feb 2018 1:47 pm

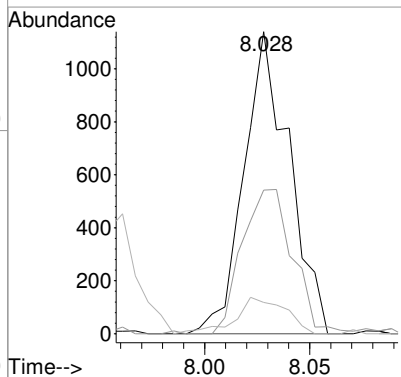
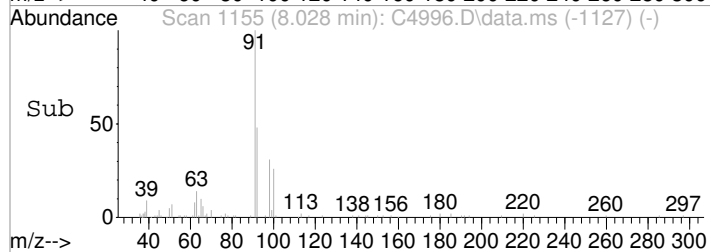
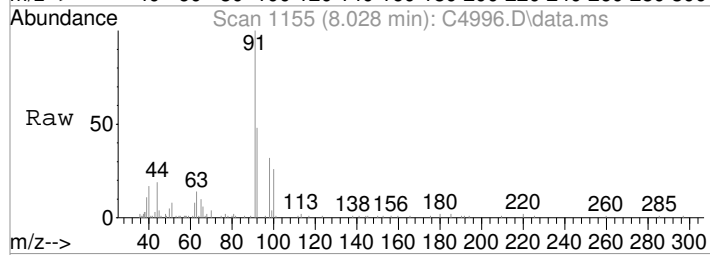
Tgt Ion	Resp	Lower	Upper
41	100		
43	168.8	98.6	138.6#





#65  
Toluene  
Concen: 0.20 ug/L  
RT: 8.028 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: C4996.D  
Acq: 16 Feb 2018 1:47 pm

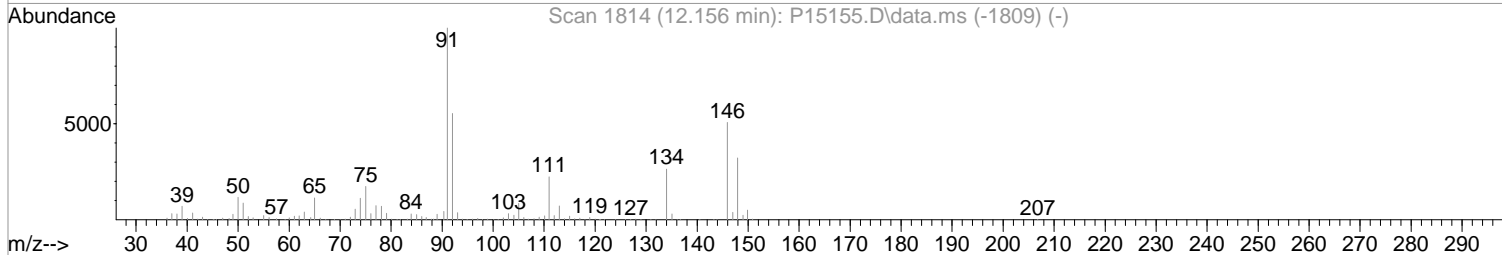
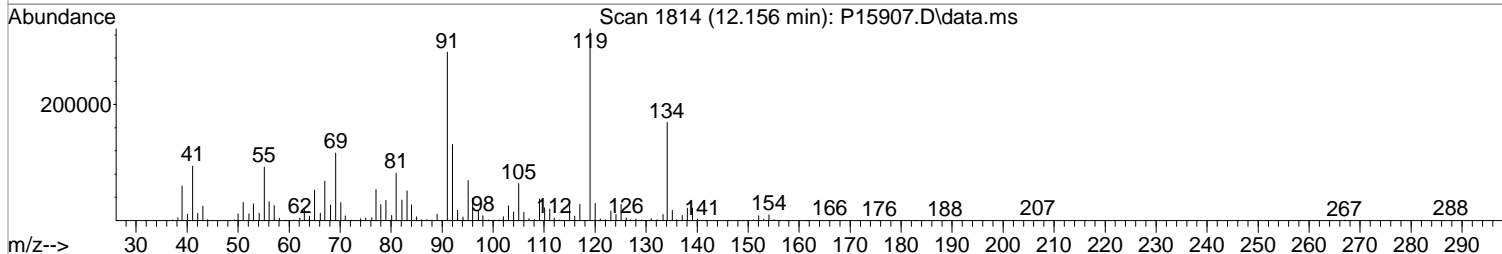
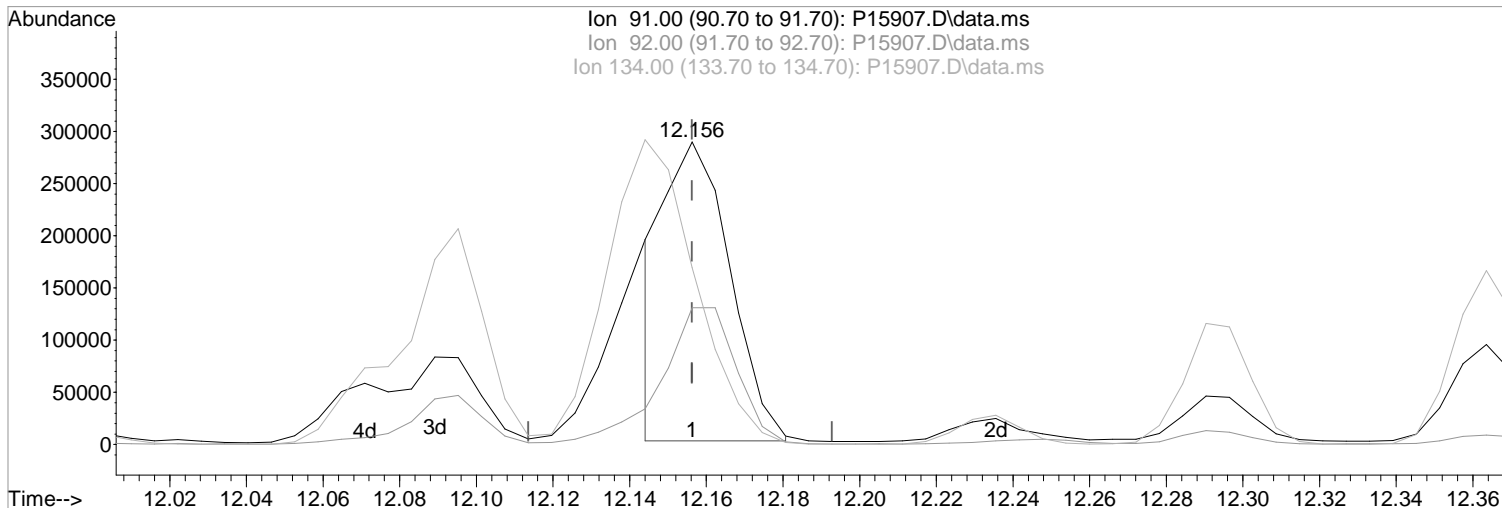
Tgt Ion	Resp	Lower	Upper
91	100		
92	47.5	39.7	79.7
65	10.4	0.0	31.9



Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15907.D  
Acq On : 20 Feb 2018 7:34 pm  
Operator : K.Ruest  
Sample : R1801334-007|222  
Misc : DAY MED T4  
ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 21 09:31:31 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15907.D\data.ms

(109) n-Butylbenzene  
12.156min (-0.000) 26.22 ppb m  
response 340245

Manual Integration:  
After  
Poor integration.

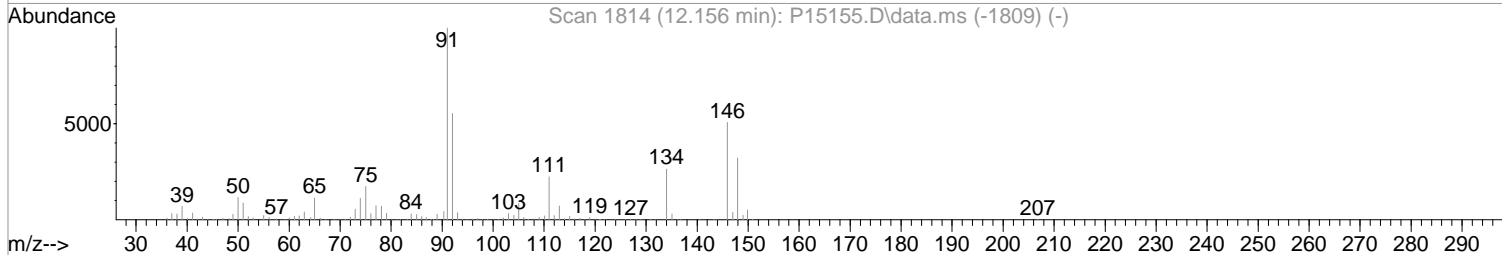
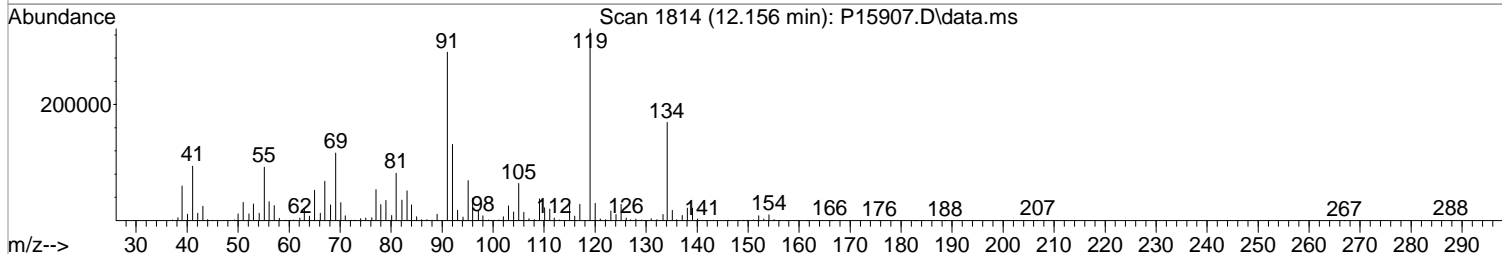
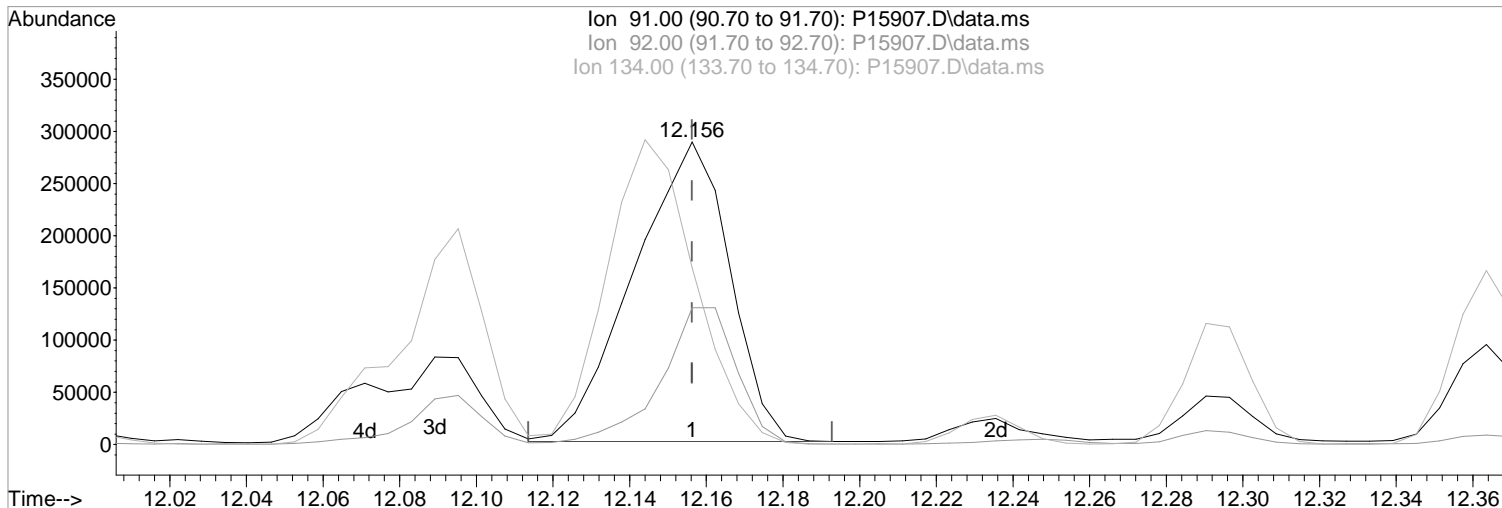
Ion	Exp%	Act%
91.00	100	100
92.00	55.40	45.18
134.00	26.30	58.36#
0.00	0.00	0.00

02/21/18

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15907.D  
Acq On : 20 Feb 2018 7:34 pm  
Operator : K.Ruest  
Sample : R1801334-007|222  
Misc : DAY MED T4  
ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 21 09:31:31 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15907.D\data.ms

(109) n-Butylbenzene  
12.156min (-0.000) 38.50 ppb  
response 499674

Manual Integration:  
Before

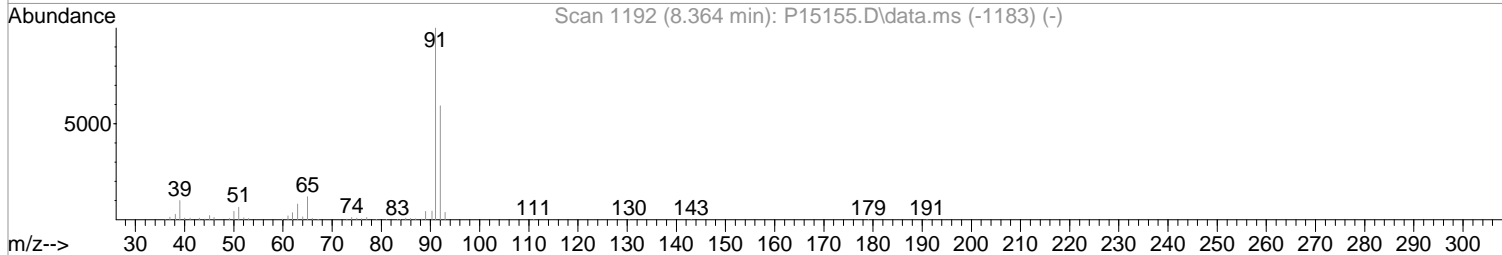
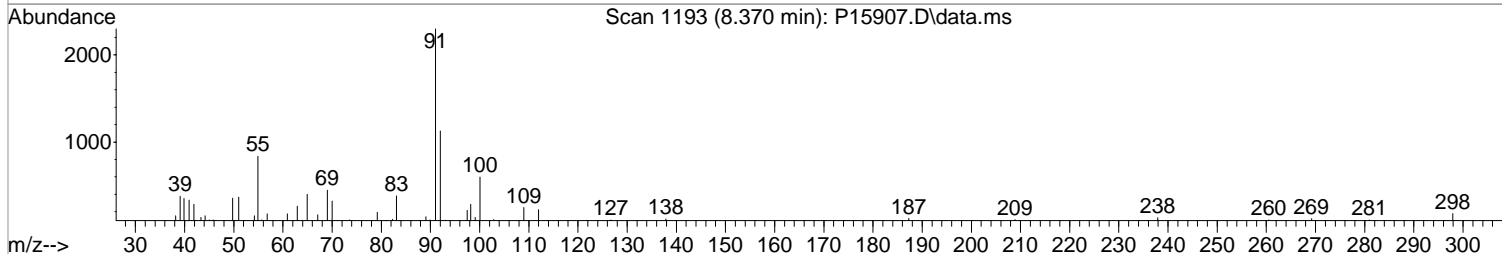
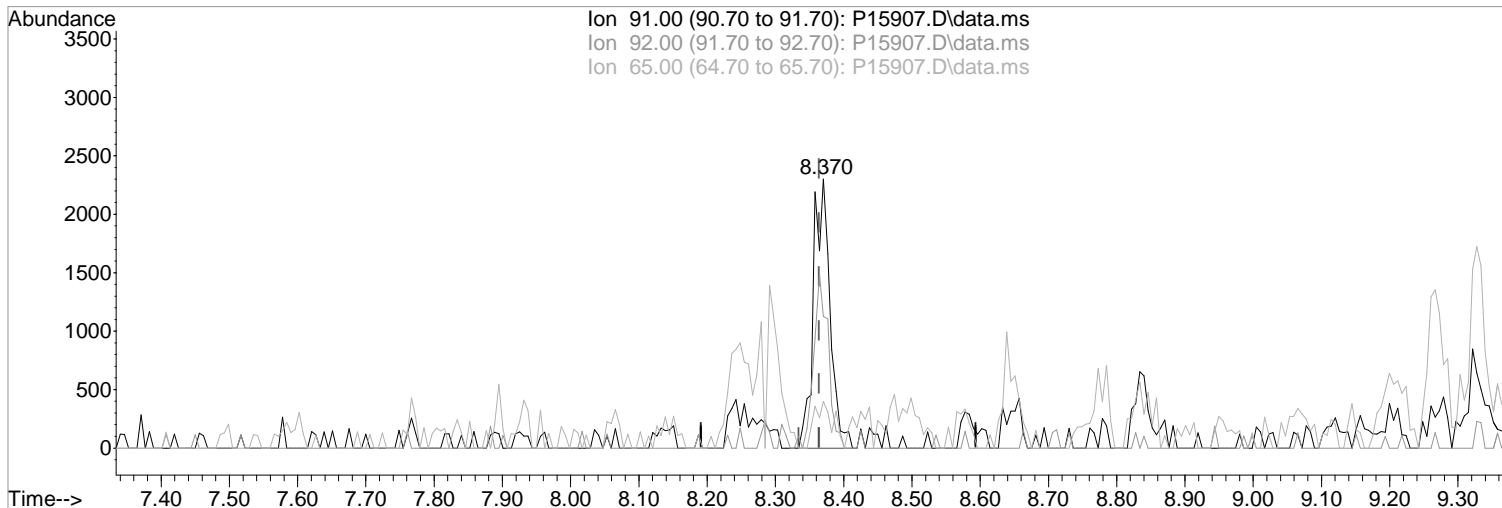
Ion	Exp%	Act%
91.00	100	100
92.00	55.40	45.18
134.00	26.30	58.36#
0.00	0.00	0.00

02/21/18

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15907.D  
Acq On : 20 Feb 2018 7:34 pm  
Operator : K.Ruest  
Sample : R1801334-007|222  
Misc : DAY MED T4  
ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 21 09:31:31 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15907.D\data.ms

(66) Toluene (P)  
8.370min (+0.006) 0.30 ppb m  
response 3891

Manual Integration:

After

Split Peak

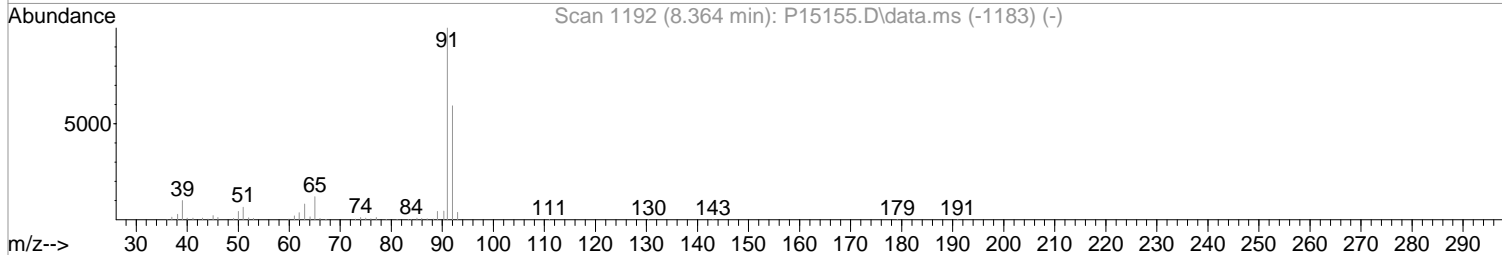
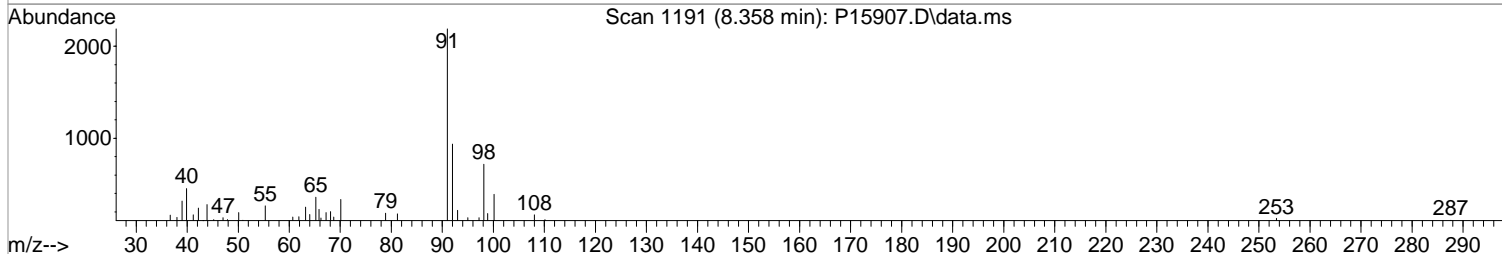
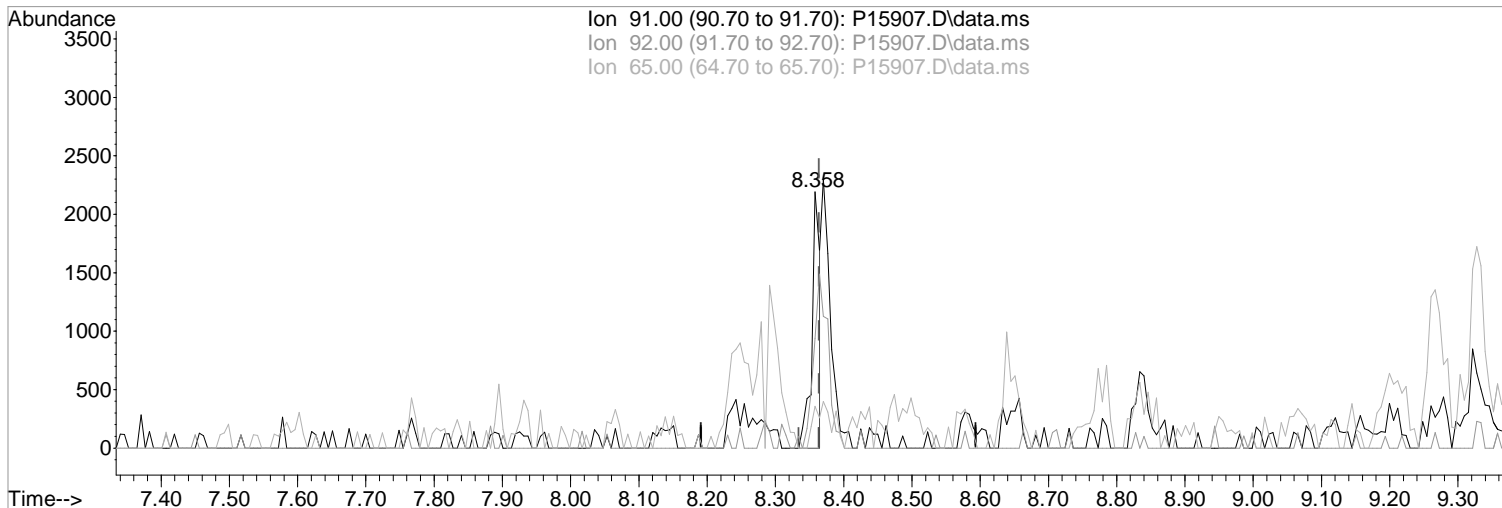
02/21/18

Ion	Exp%	Act%
91.00	100	100
92.00	59.40	48.94
65.00	11.90	17.30
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15907.D  
Acq On : 20 Feb 2018 7:34 pm  
Operator : K.Ruest  
Sample : R1801334-007|222  
Misc : DAY MED T4  
ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 21 09:31:31 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(66) Toluene (P)  
8.358min (-0.006) 0.14 ppb  
response 1803  
Ion Exp% Act%  
91.00 100 100  
92.00 59.40 42.81  
65.00 11.90 16.34  
0.00 0.00 0.00

Manual Integration:  
Before  
02/21/18

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15907.D  
 Acq On : 20 Feb 2018 7:34 pm  
 Operator : K.Ruest  
 Sample : R1801334-007|222 Inst : MSVOA-12  
 Misc : DAY MED T4  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 21 17:42:27 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.383	168	271559	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.474	114	451558	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	402626	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	236867	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	124572	46.46	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	92.92%		
48) surr1,1,2-dichloroetha...	5.767	65	190437	51.83	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	103.66%		
65) SURR3,Toluene-d8	8.291	98	613546	51.25	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	102.50%		
70) SURR2,BFB	10.864	95	242356	52.32	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	104.64%		
Target Compounds						Qvalue
3) Chloromethane	1.305	50	1315	0.32	ppb	92
15) Acetone	2.372	43	2373	1.43	ppb	83
21) Methyl Acetate	2.664	43	2288	0.77	ppb	# 44
44) Cyclohexane	5.334	41	13217	4.48	ppb	# 68
52) n-Heptane	6.340	43	31419	7.76	ppb	95
54) Trichloroethene	6.798	130	620	0.20	ppb	# 43
55) Methylcyclohexane	7.041	55	71206	18.10	ppb	96
66) Toluene	8.370	91	3891m	0.30	ppb	
82) Ethylbenzene	9.931	106	10988	2.52	ppb	# 85
83) (m+p)Xylene	10.047	106	54491	10.34	ppb	93
84) o-Xylene	10.407	106	4151	0.79	ppb	97
89) Isopropylbenzene	10.742	105	61768	3.97	ppb	99
95) n-Propylbenzene	11.095	91	155476	8.59	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	369692	28.40	ppb	99
100) tert-Butylbenzene	11.522	119	29821	2.65	ppb	94
101) 1,2,4-Trimethylbenzene	11.559	105	1221191	93.68	ppb	99
103) sec-Butylbenzene	11.705	105	195134	11.80	ppb	99
104) p-Isopropyltoluene	11.827	119	181718	13.06	ppb	99
109) n-Butylbenzene	12.156	91	340245m	26.22	ppb	
117) Naphthalen	13.632	128	1065580	73.48	ppb	99

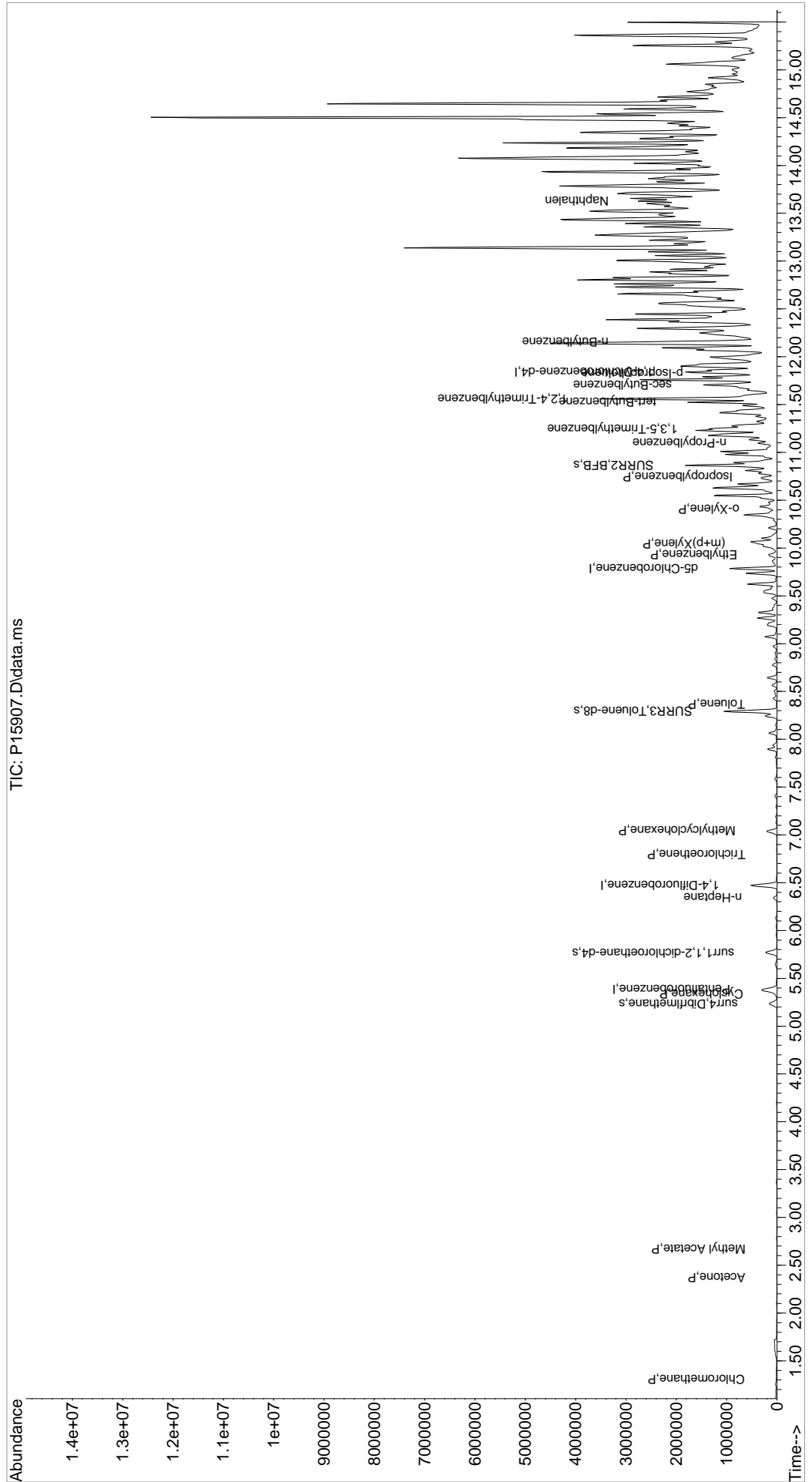
(#) = qualifier out of range (m) = manual integration (+) = signals summed

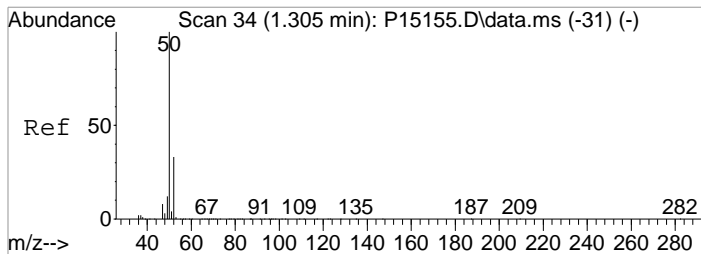


Data Path : I:\ACQDATA\msvoa12\Data\022018\  
 Data File : P15907.D  
 Acq On : 20 Feb 2018 7:34 pm  
 Operator : K.Ruest  
 Sample : R1801334-007|222  
 Misc : DAY MED T4  
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA-12

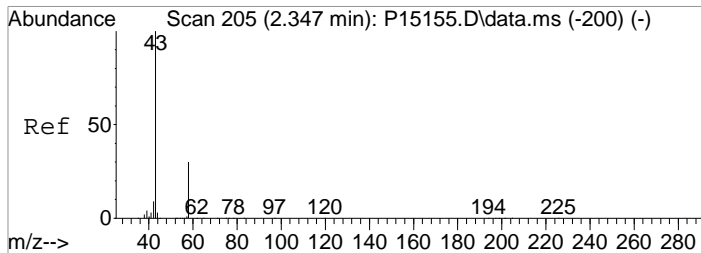
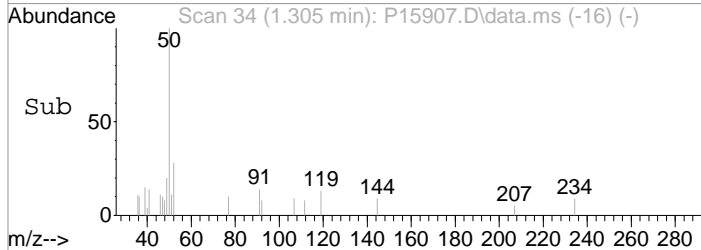
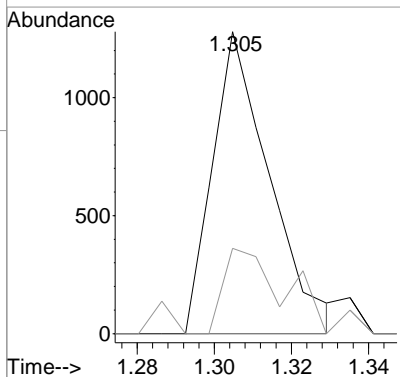
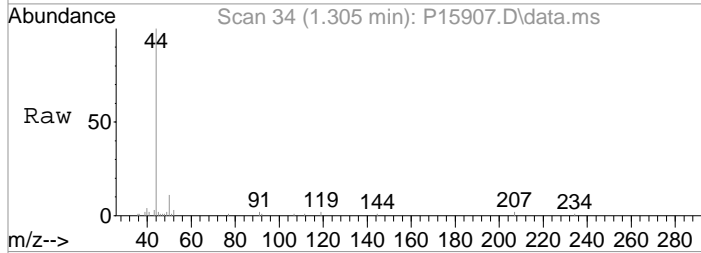
Quant Time: Feb 21 17:42:27 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration





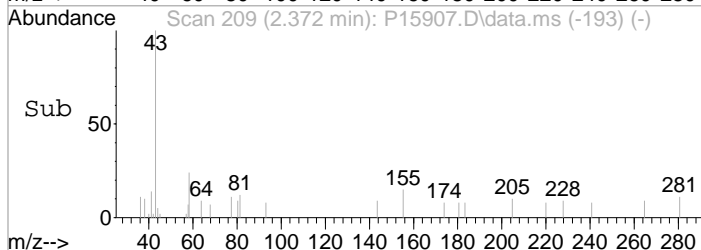
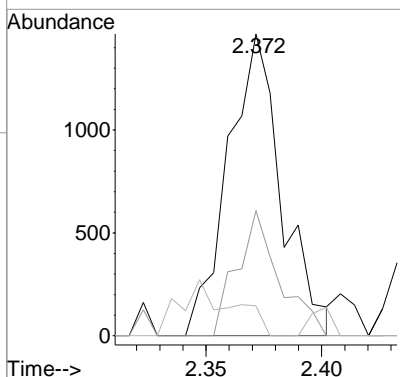
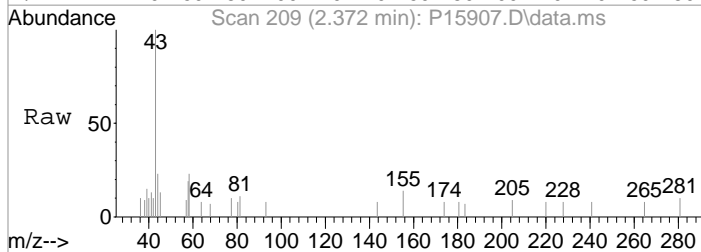
#3  
 Chloromethane  
 Concen: 0.32 ppb  
 RT: 1.305 min Scan# 34  
 Delta R.T. -0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

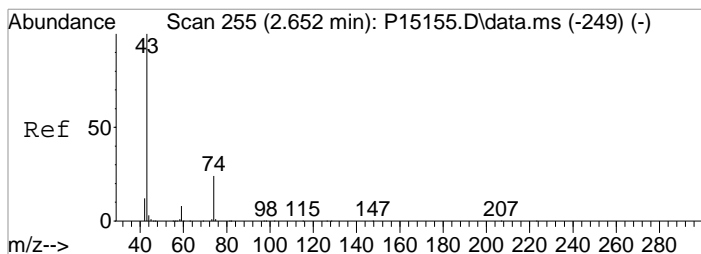
Tgt Ion	Resp	Lower	Upper
50	1315		
52	28.3	12.8	52.8



#15  
 Acetone  
 Concen: 1.43 ppb  
 RT: 2.372 min Scan# 209  
 Delta R.T. 0.024 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

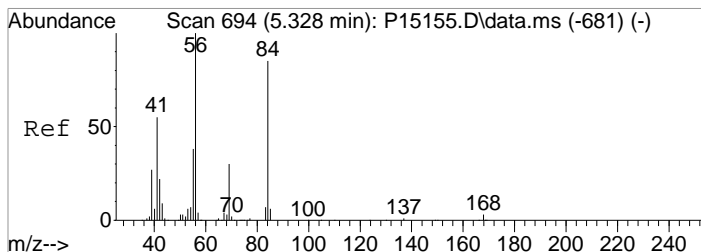
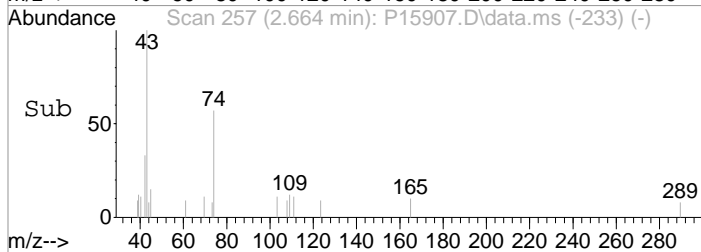
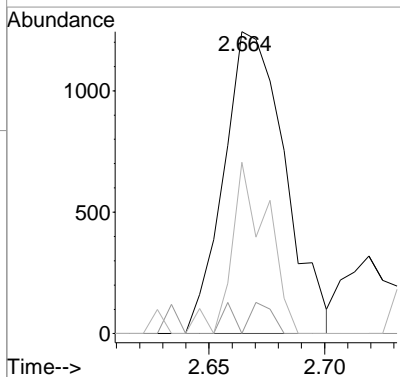
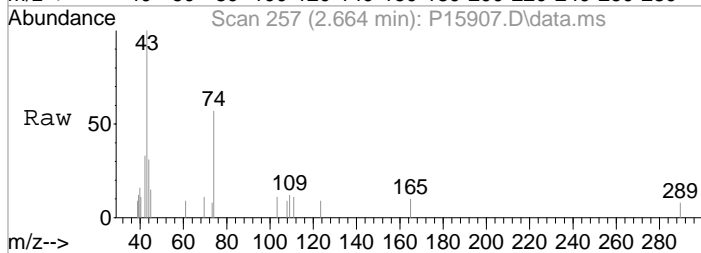
Tgt Ion	Resp	Lower	Upper
43	2373		
58	41.4	9.7	49.7
42	9.9	0.0	29.2





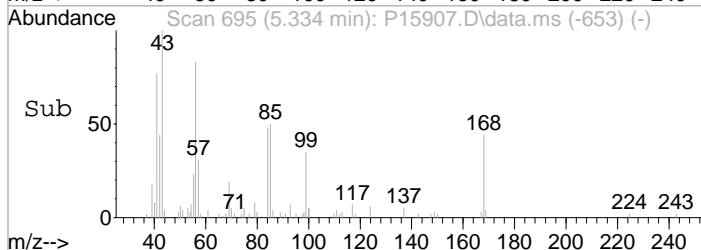
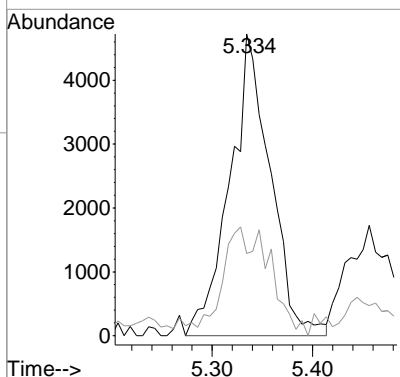
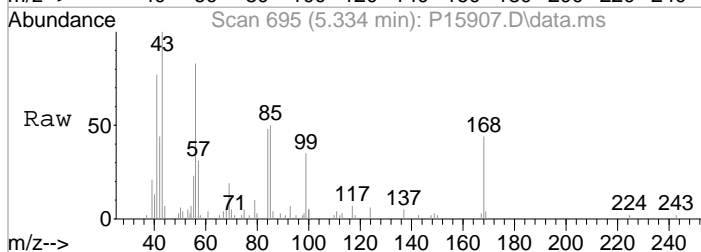
#21  
 Methyl Acetate  
 Concen: 0.77 ppb  
 RT: 2.664 min Scan# 257  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

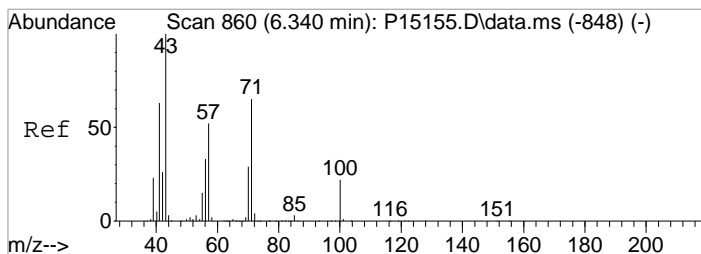
Tgt Ion	Resp	Lower	Upper
43	100		
59	0.0	0.0	27.6
74	56.8	3.8	43.8#



#44  
 Cyclohexane  
 Concen: 4.48 ppb  
 RT: 5.334 min Scan# 695  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

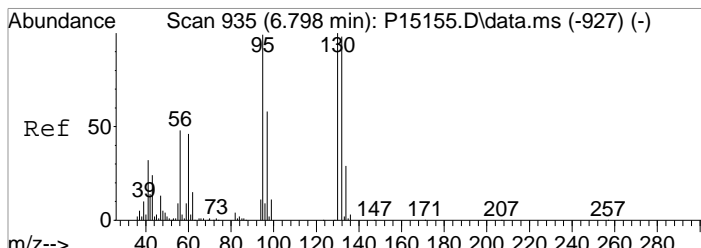
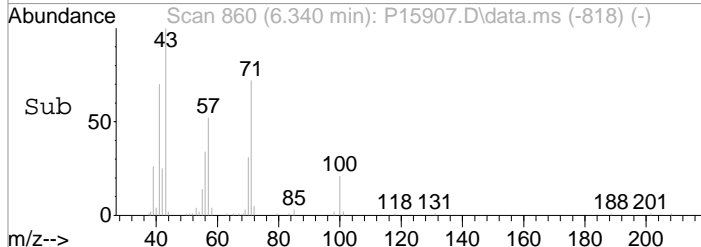
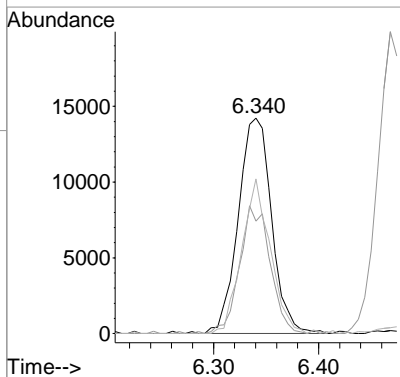
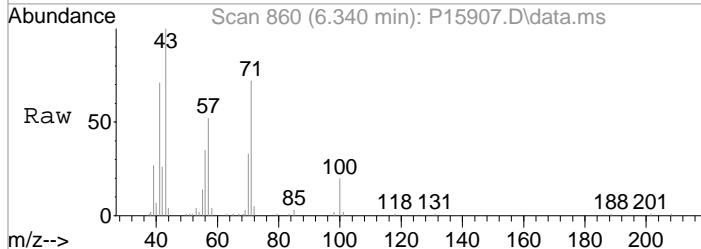
Tgt Ion	Resp	Lower	Upper
41	100		
39	27.2	29.1	69.1#





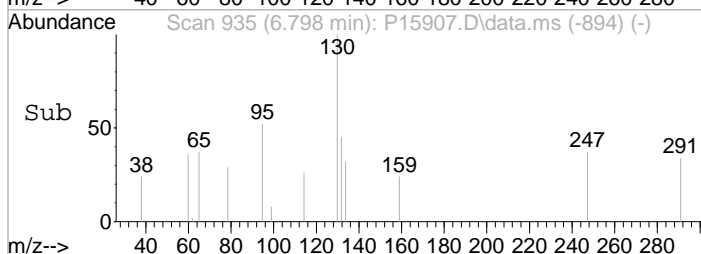
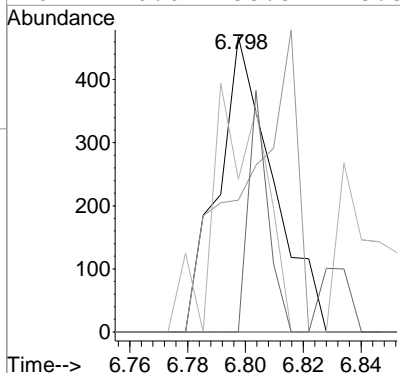
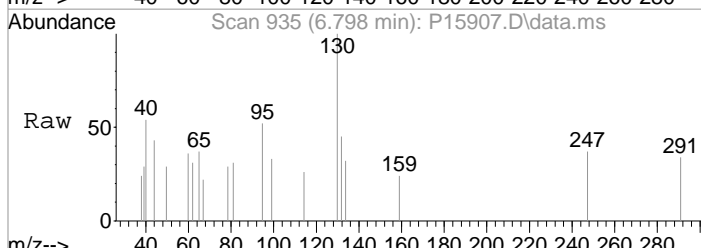
#52  
 n-Heptane  
 Concen: 7.76 ppb  
 RT: 6.340 min Scan# 860  
 Delta R.T. 0.018 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

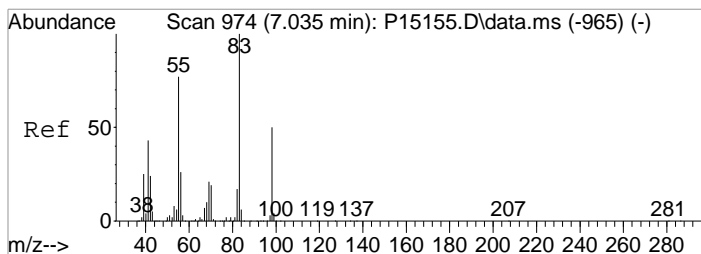
Tgt Ion	Resp	Lower	Upper
43	100		
57	52.1	32.1	72.1
71	71.7	45.3	85.3



#54  
 Trichloroethene  
 Concen: 0.20 ppb  
 RT: 6.798 min Scan# 935  
 Delta R.T. -0.000 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

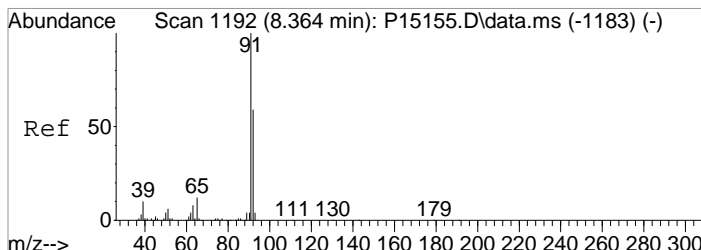
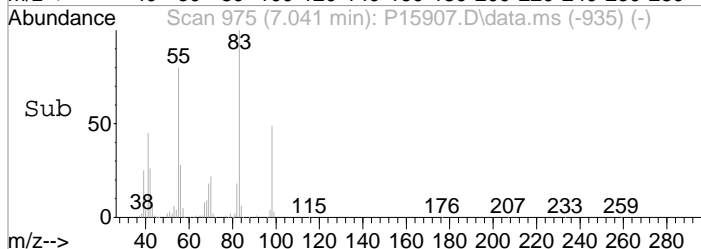
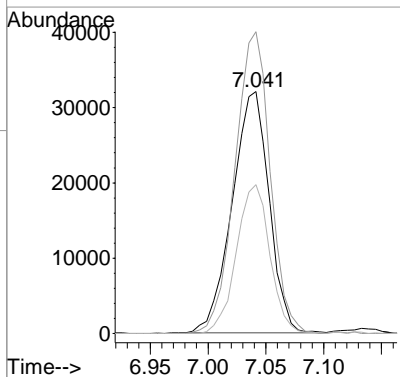
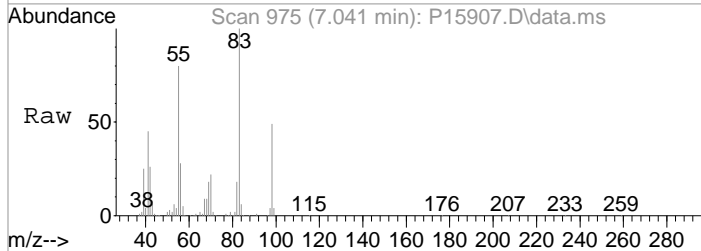
Tgt Ion	Resp	Lower	Upper
130	100		
132	44.7	78.3	118.3#
95	51.7	78.7	118.7#
97	0.0	38.3	78.3#





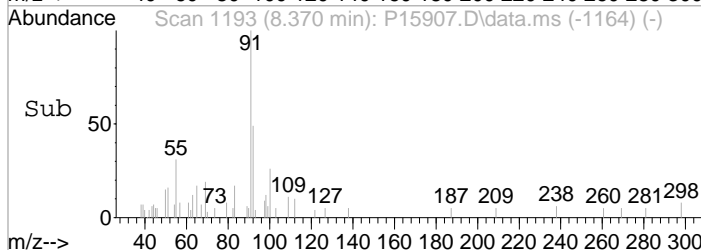
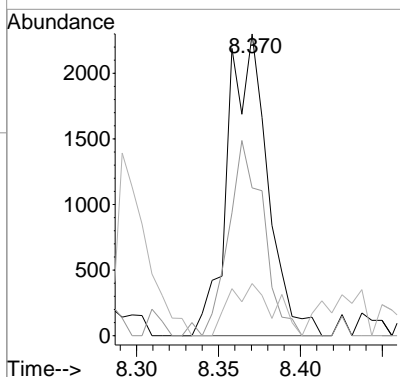
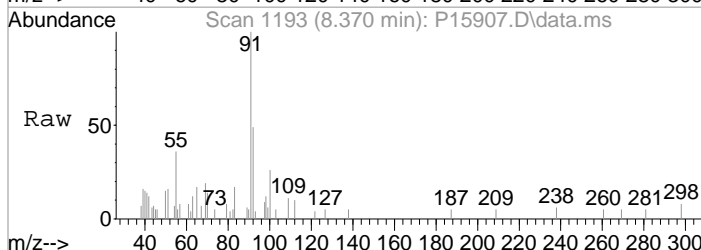
#55  
 Methylcyclohexane  
 Concen: 18.10 ppb  
 RT: 7.041 min Scan# 975  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

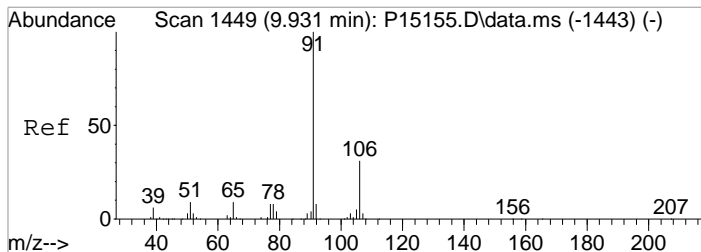
Tgt Ion	Resp	Lower	Upper
55	100		
83	124.8	110.2	150.2
98	61.5	44.6	84.6



#66  
 Toluene  
 Concen: 0.30 ppb m  
 RT: 8.370 min Scan# 1193  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

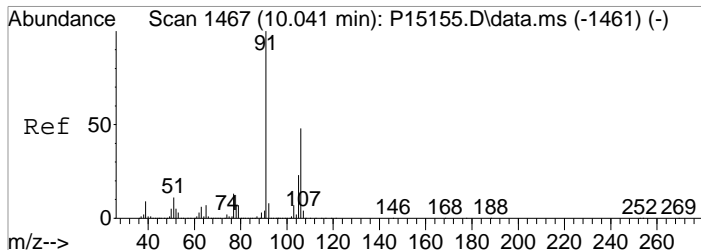
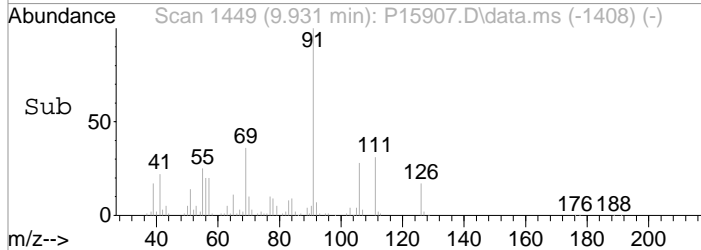
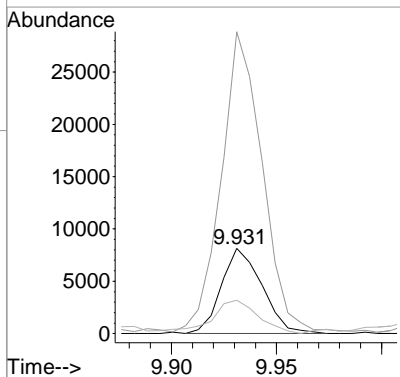
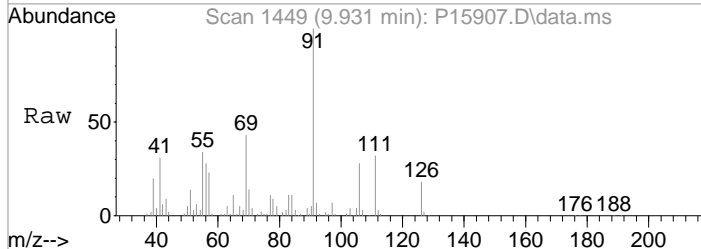
Tgt Ion	Resp	Lower	Upper
91	100		
92	48.9	39.4	79.4
65	17.3	0.0	31.9





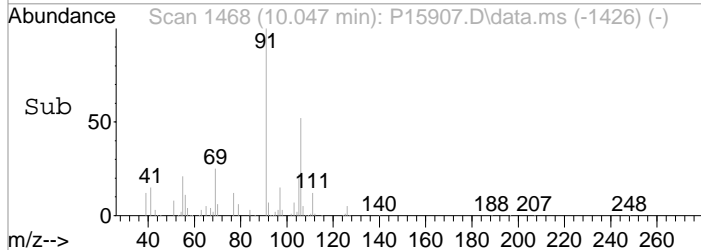
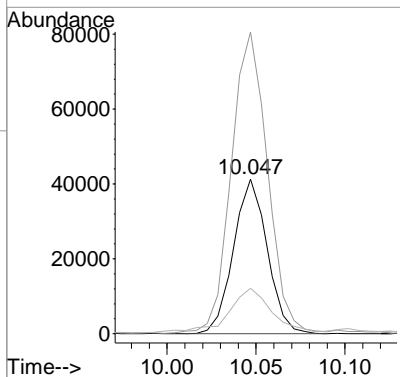
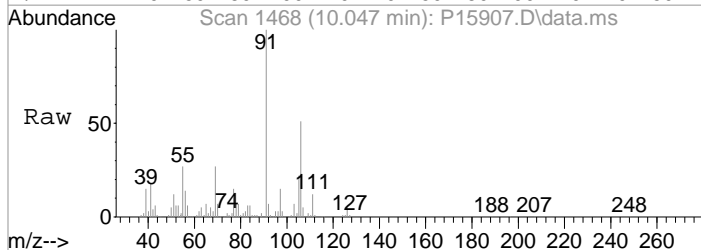
#82  
 Ethylbenzene  
 Concen: 2.52 ppb  
 RT: 9.931 min Scan# 1449  
 Delta R.T. -0.000 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

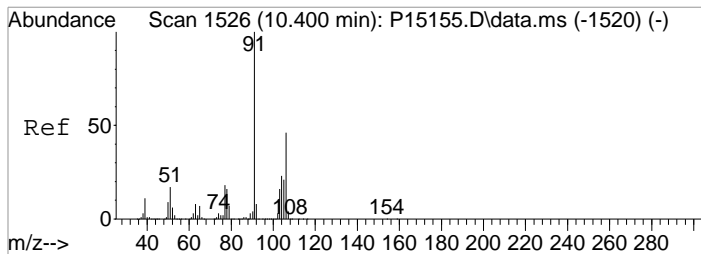
Tgt Ion	106	Resp	10988
Ion Ratio	Lower	Upper	
106	100		
91	354.2	304.6	344.6#
65	39.2	9.0	49.0



#83  
 (m+p)Xylene  
 Concen: 10.34 ppb  
 RT: 10.047 min Scan# 1468  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

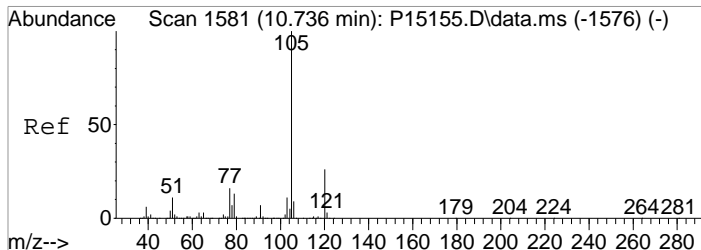
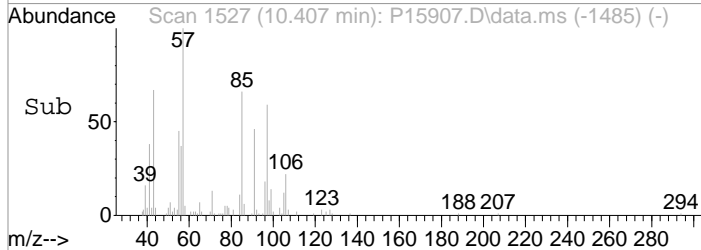
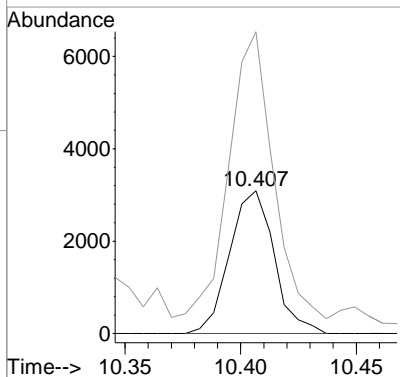
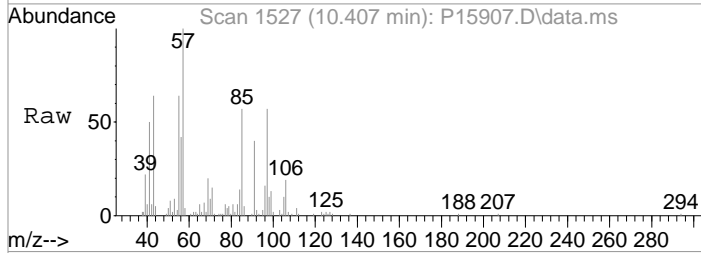
Tgt Ion	106	Resp	54491
Ion Ratio	Lower	Upper	
106	100		
91	195.3	187.1	227.1
77	29.4	7.6	47.6





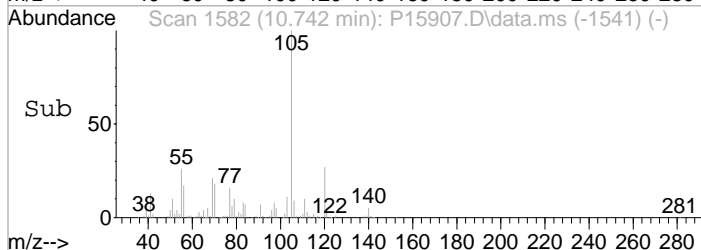
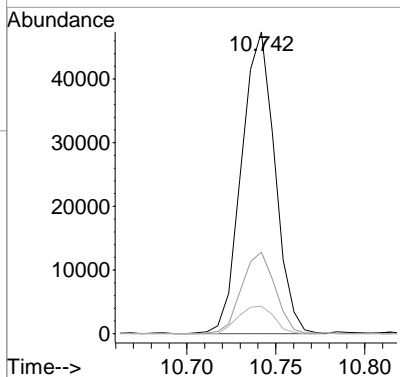
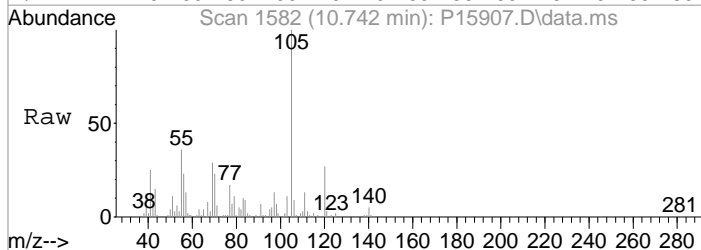
#84  
 o-Xylene  
 Concen: 0.79 ppb  
 RT: 10.407 min Scan# 1527  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

Tgt Ion	Resp	Lower	Upper
106	4151		
91	211.5	195.5	235.5

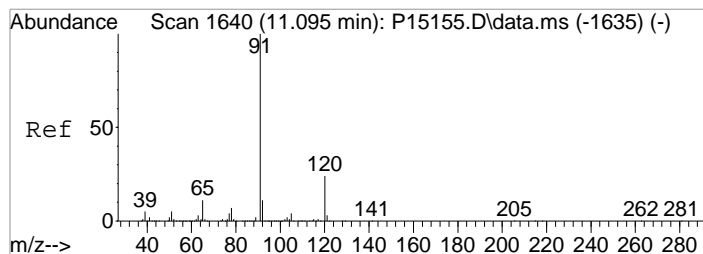


#89  
 Isopropylbenzene  
 Concen: 3.97 ppb  
 RT: 10.742 min Scan# 1582  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

Tgt Ion	Resp	Lower	Upper
105	61768		
120	27.0	6.4	46.4
106	9.1	0.0	29.2

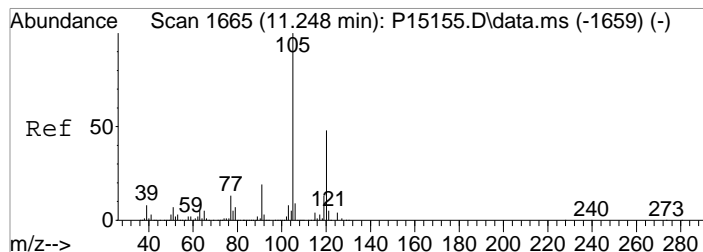
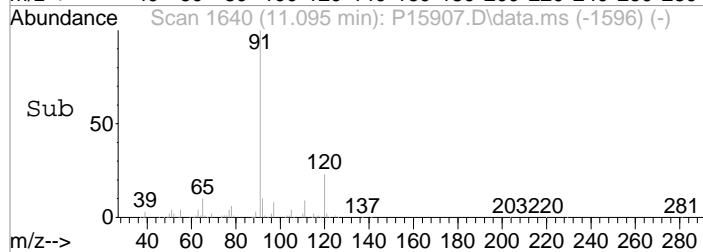
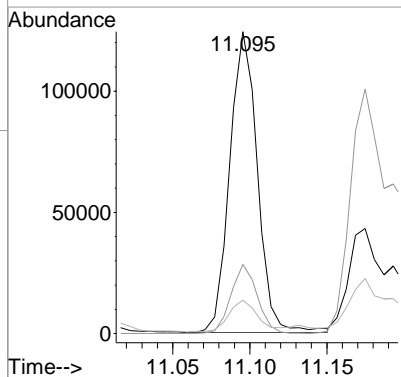
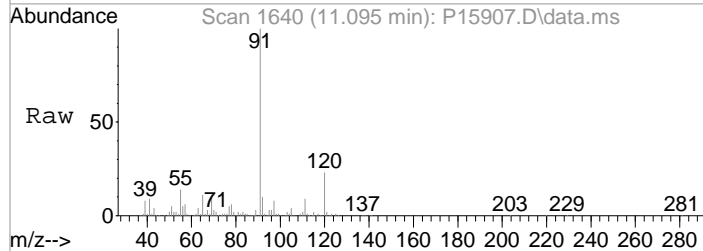






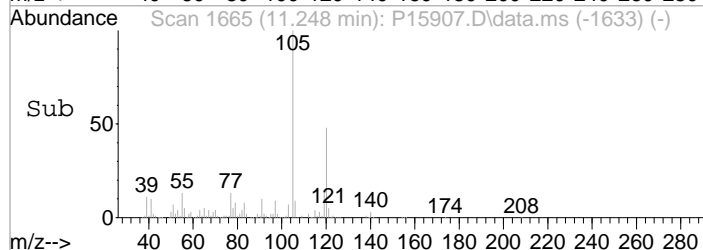
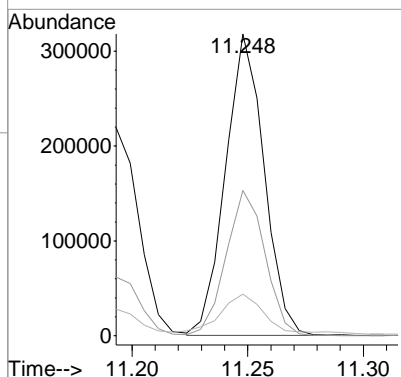
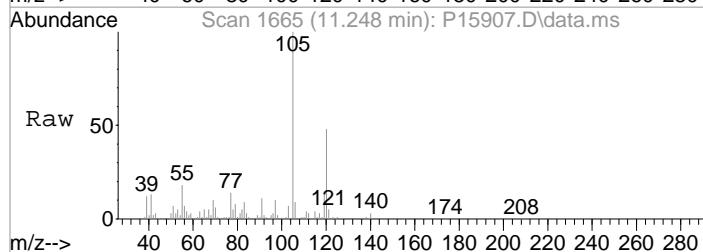
#95  
 n-Propylbenzene  
 Concen: 8.59 ppb  
 RT: 11.095 min Scan# 1640  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

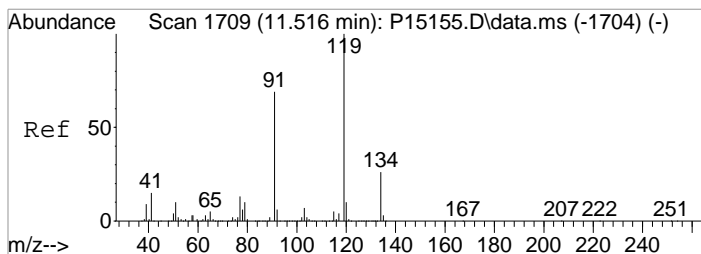
Tgt Ion	Resp	Lower	Upper
91	155476		
120	23.0	3.5	43.5
65	11.0	0.0	30.5



#99  
 1,3,5-Trimethylbenzene  
 Concen: 28.40 ppb  
 RT: 11.248 min Scan# 1665  
 Delta R.T. -0.000 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

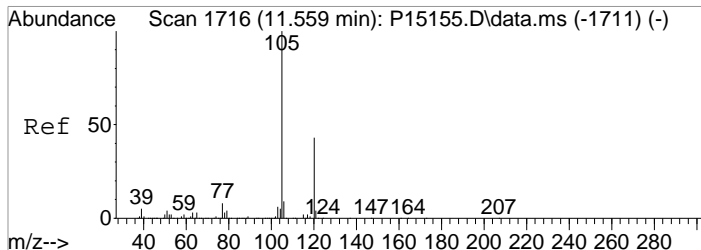
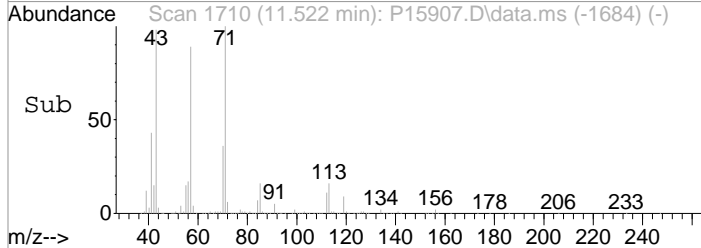
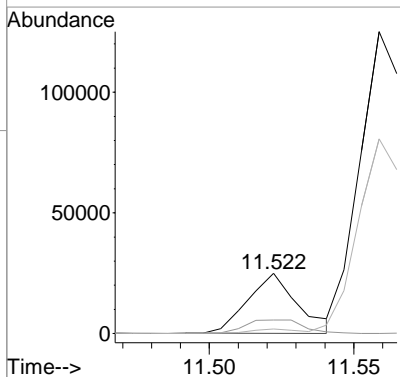
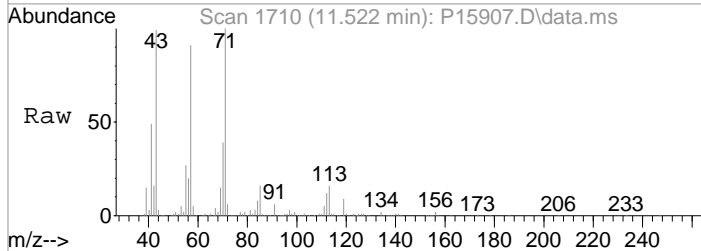
Tgt Ion	Resp	Lower	Upper
105	369692		
120	48.1	28.4	68.4
77	13.8	0.0	33.3





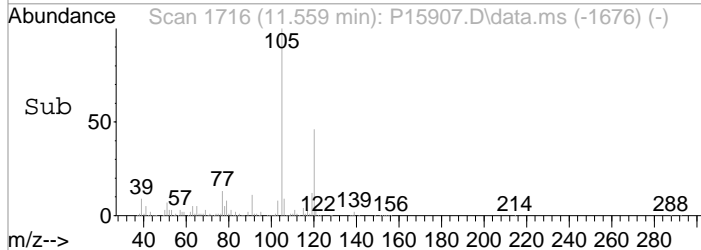
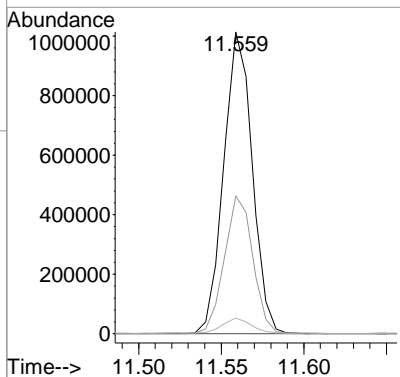
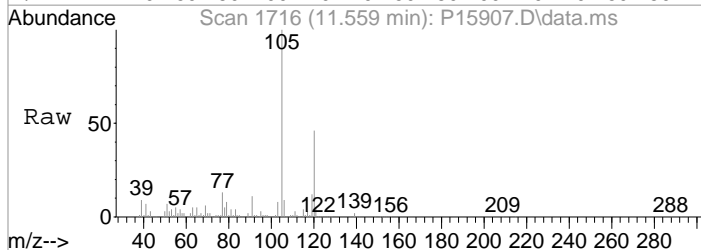
#100  
 tert-Butylbenzene  
 Concen: 2.65 ppb  
 RT: 11.522 min Scan# 1710  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

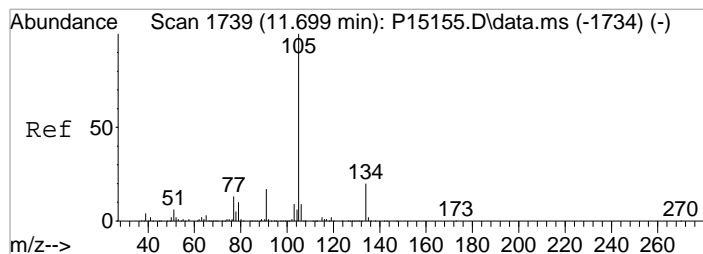
Tgt Ion	Resp	Lower	Upper
119	29821		
134	22.2	5.9	45.9
103	7.4	0.0	26.7



#101  
 1,2,4-Trimethylbenzene  
 Concen: 93.68 ppb  
 RT: 11.559 min Scan# 1716  
 Delta R.T. -0.000 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

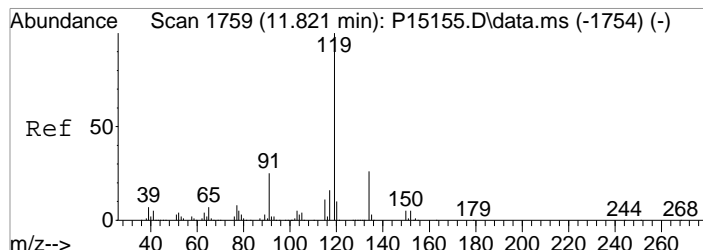
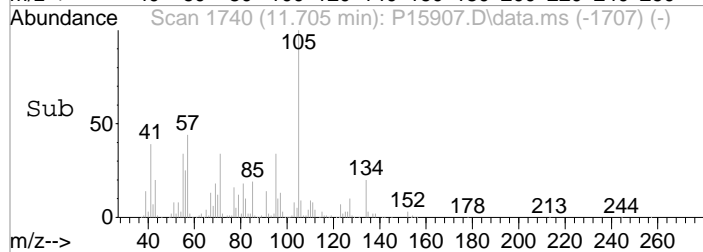
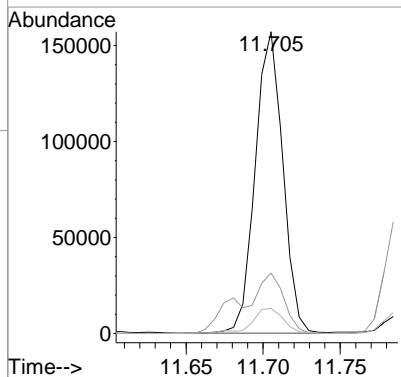
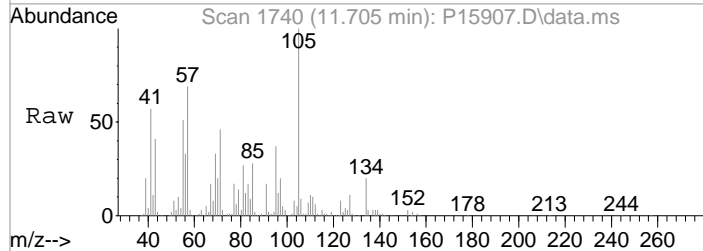
Tgt Ion	Resp	Lower	Upper
105	1221191		
120	45.7	26.6	66.6
65	5.2	0.0	24.8





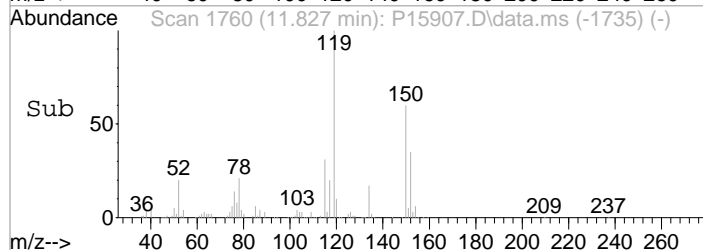
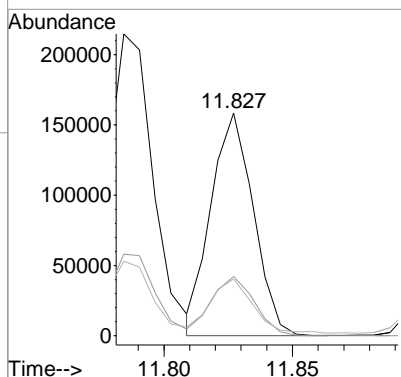
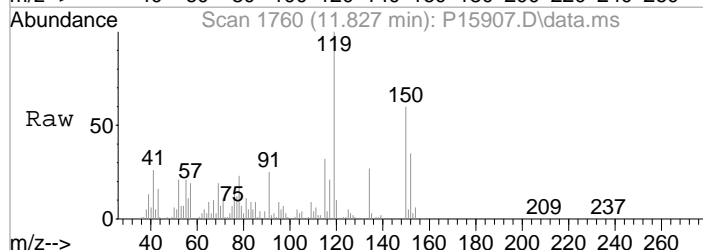
#103  
 sec-Butylbenzene  
 Concen: 11.80 ppb  
 RT: 11.705 min Scan# 1740  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

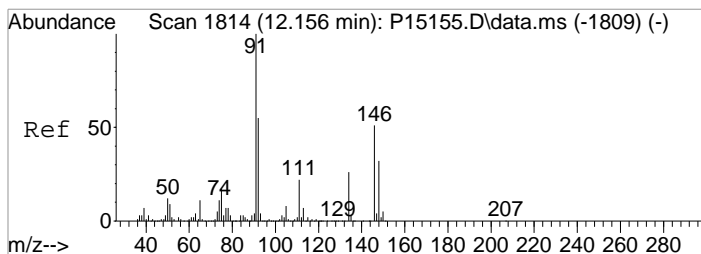
Tgt Ion	Resp	Lower	Upper
105	195134		
134	20.1	0.2	40.2
103	8.3	0.0	28.8



#104  
 p-Isopropyltoluene  
 Concen: 13.06 ppb  
 RT: 11.827 min Scan# 1760  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

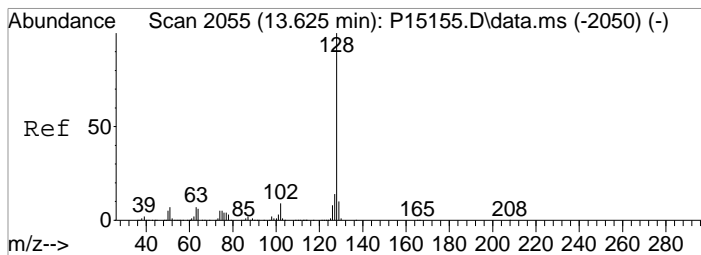
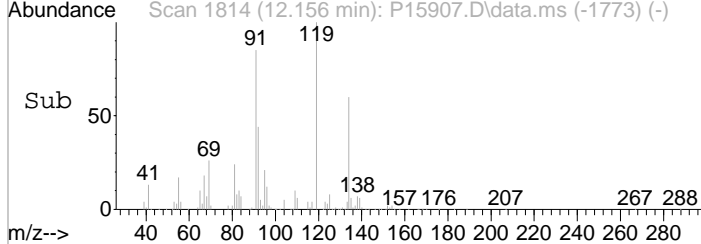
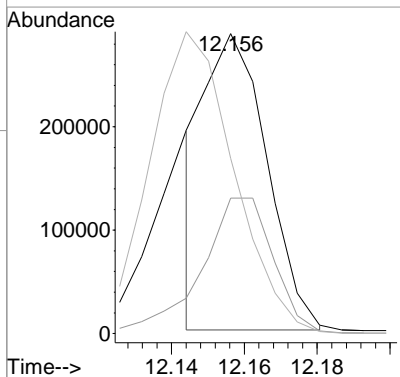
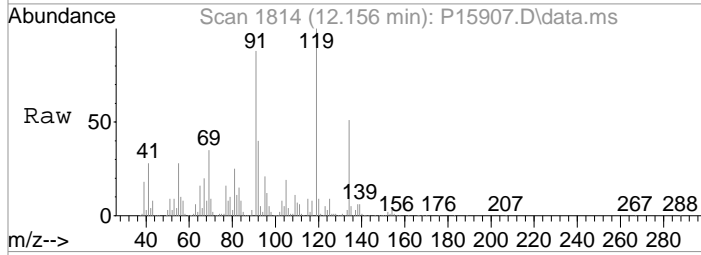
Tgt Ion	Resp	Lower	Upper
119	181718		
134	26.7	6.5	46.5
91	25.5	4.5	44.5





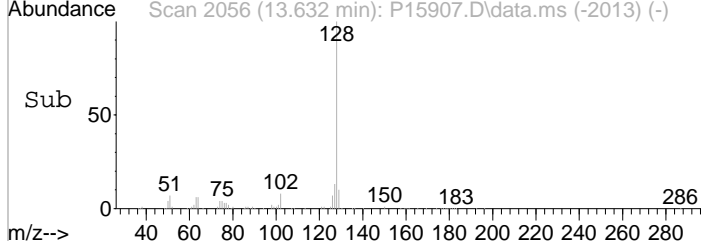
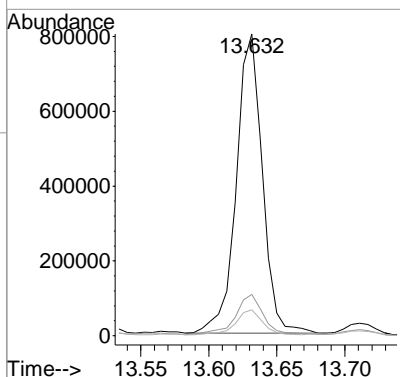
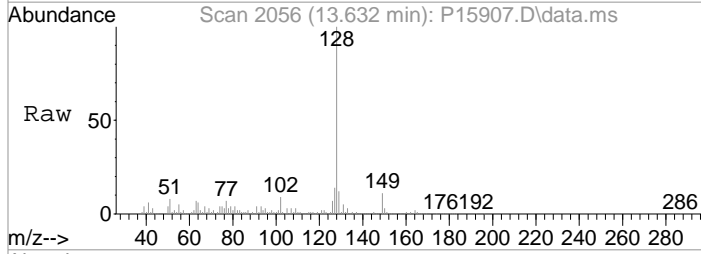
#109  
 n-Butylbenzene  
 Concen: 26.22 ppb m  
 RT: 12.156 min Scan# 1814  
 Delta R.T. -0.000 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	45.2	35.4	75.4
134	58.4	6.3	46.3#



#117  
 Naphthalen  
 Concen: 73.48 ppb  
 RT: 13.632 min Scan# 2056  
 Delta R.T. 0.006 min  
 Lab File: P15907.D  
 Acq: 20 Feb 2018 7:34 pm

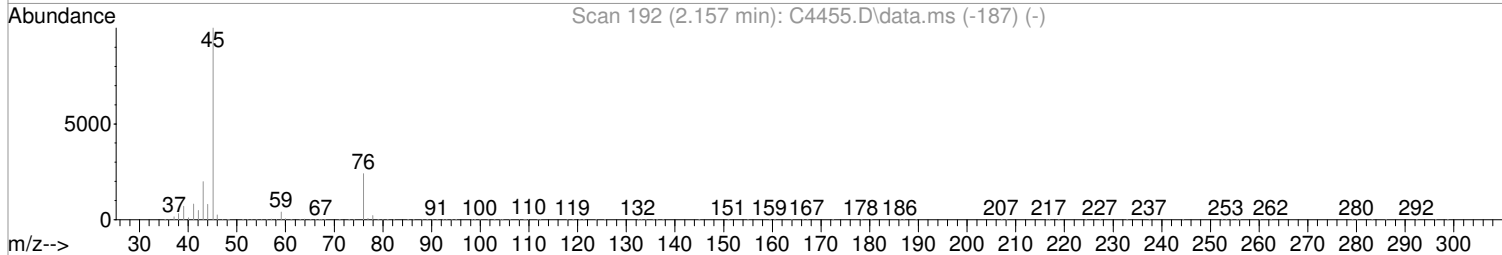
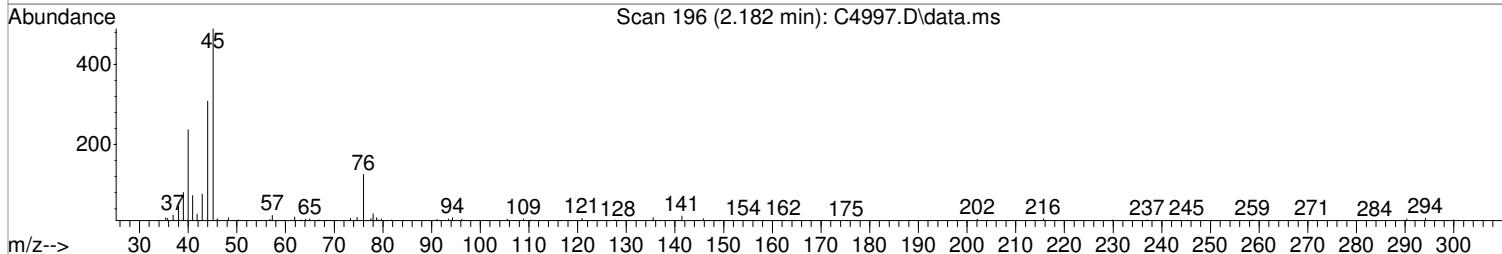
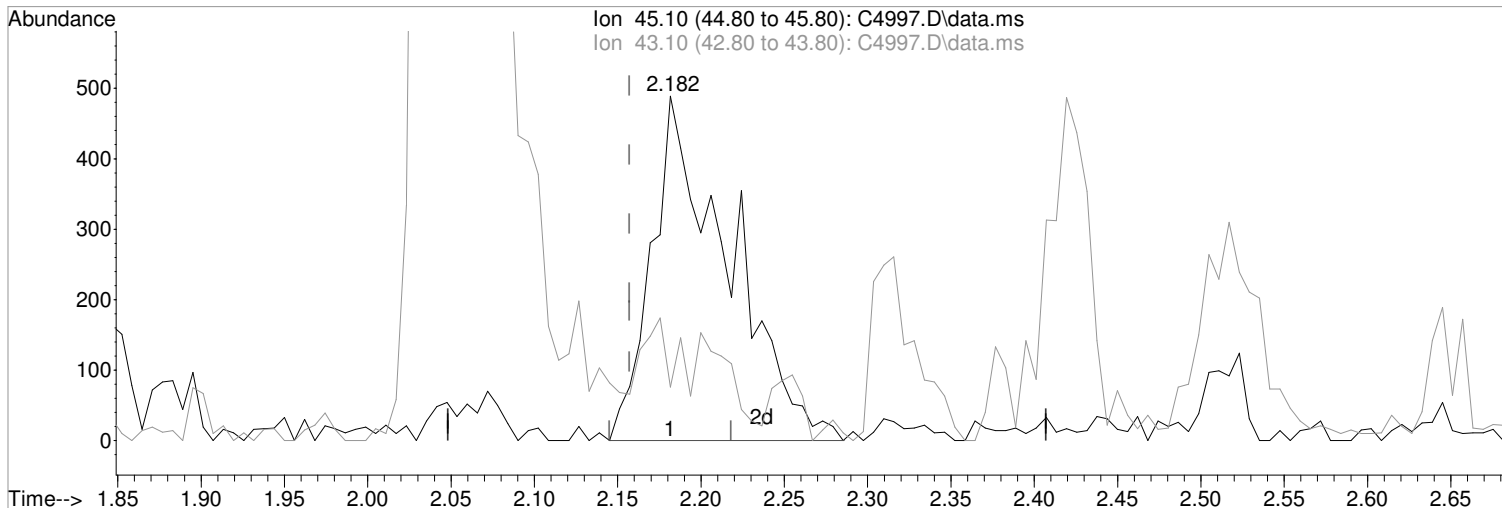
Tgt Ion	Resp	Lower	Upper
128	100		
127	13.7	0.0	34.0
102	8.6	0.0	29.1



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4997.D  
Acq On : 16 Feb 2018 2:10 pm  
Operator : F. NAEGLER  
Sample : R1801334-008|0.82  
Misc : DAY 12666 T4  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 15:10:09 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C4997.D\data.ms

(16) 2-Propanol  
2.182min (+0.024) 7.87 ug/L m  
response 1565

Manual Integration:  
After  
Poor integration.

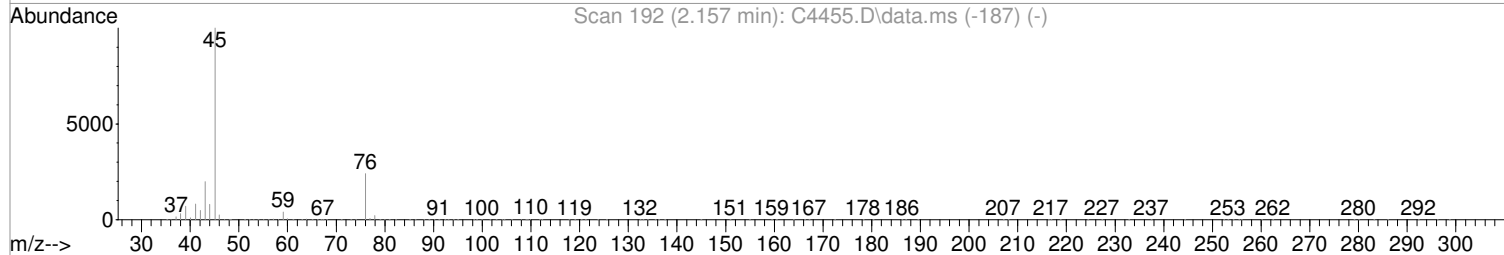
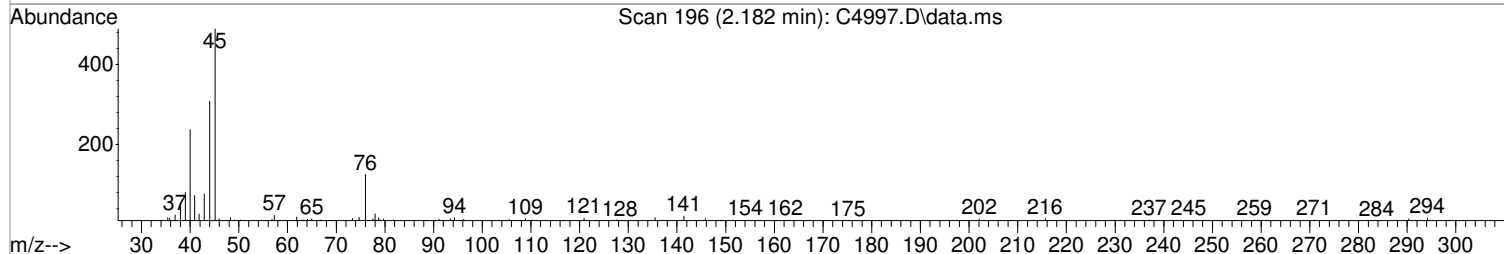
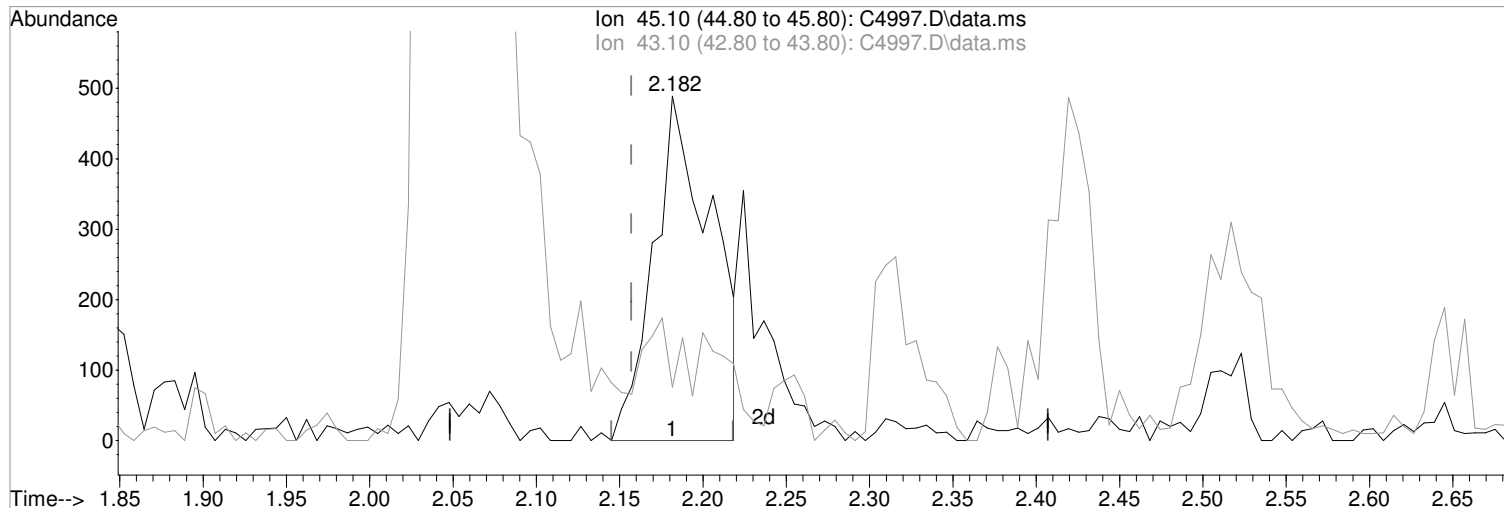
Ion	Exp%	Act%
45.10	100	100
43.10	20.10	15.54
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4997.D  
Acq On : 16 Feb 2018 2:10 pm  
Operator : F. NAEGLER  
Sample : R1801334-008|0.82  
Misc : DAY 12666 T4  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 15:10:09 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(16) 2-Propanol  
2.182min (+0.024) 5.90 ug/L  
response 1174

Manual Integration:  
Before

Ion	Exp%	Act%
45.10	100	100
43.10	20.10	15.54
0.00	0.00	0.00
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4997.D  
 Acq On : 16 Feb 2018 2:10 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-008|0.82 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 16 15:14:51 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	192439	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	290597	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	235848	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	97525	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	89009	49.19	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.38%		
47) SURR1,1,2-dichloroetha...	5.120	65	115392	53.24	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	106.48%		
64) SURR3,Toluene-d8	7.949	98	347669	50.24	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	100.48%		
69) SURR2,BFB	10.729	95	113932	40.81	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	81.62%		
Target Compounds						
8) Trichlorofluoromethane	1.639	101	1400	0.54	ug/L	93
15) Acetone	2.047	43	20888	23.95	ug/L	95
16) 2-Propanol	2.182	45	1565m	7.87	ug/L	
22) Methylene Chloride	2.383	84	711	0.35	ug/L #	84
31) ETBE	3.626	59	2634	0.40	ug/L	95
54) Methylcyclohexane	6.571	55	625	0.23	ug/L #	80
65) Toluene	8.034	91	3238	0.39	ug/L	96
80) (m+p)Xylene	9.869	106	688	0.20	ug/L #	76

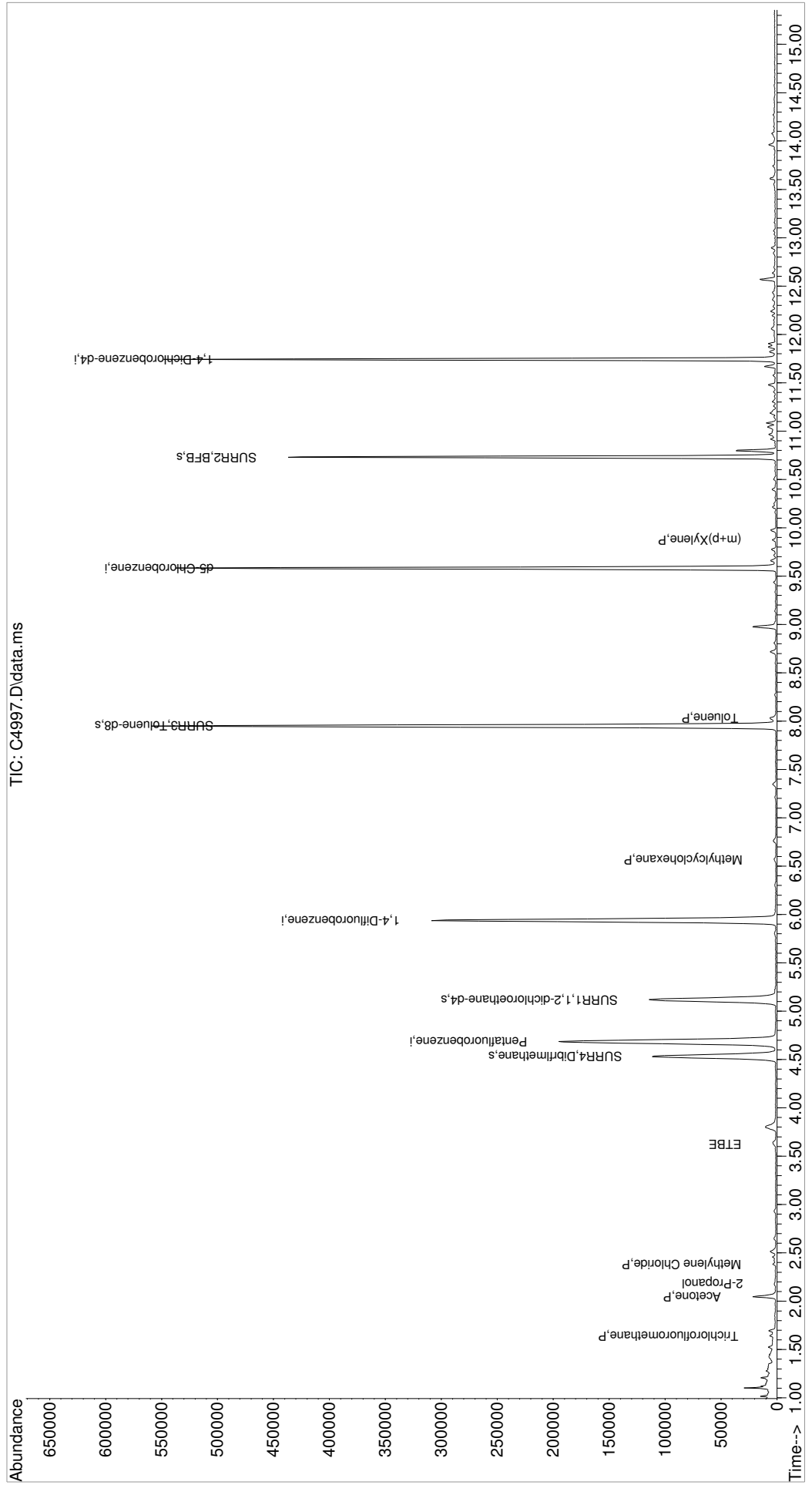
(#) = qualifier out of range (m) = manual integration (+) = signals summed

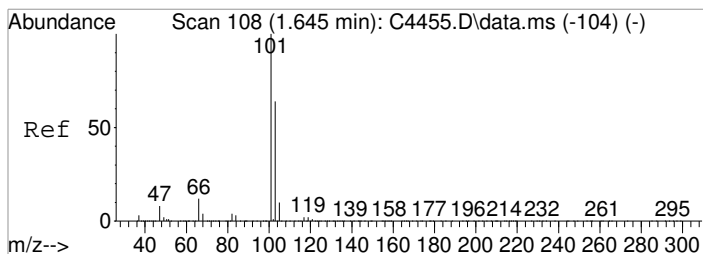


Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4997.D  
 Acq On : 16 Feb 2018 2:10 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-008|0.82  
 Misc : DAY 12666 T4  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

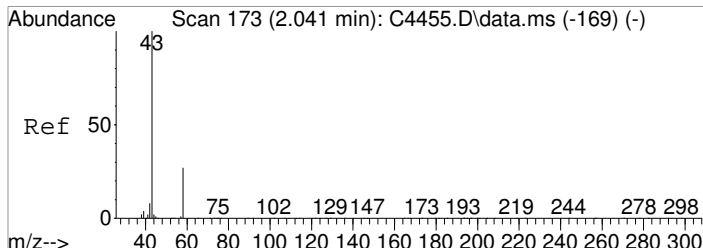
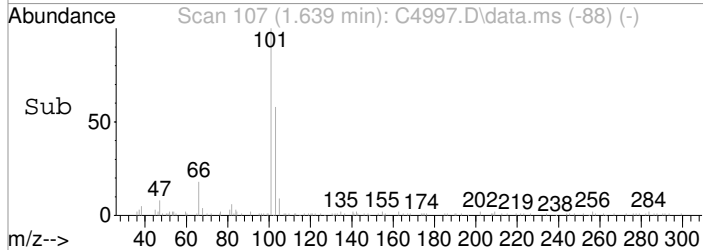
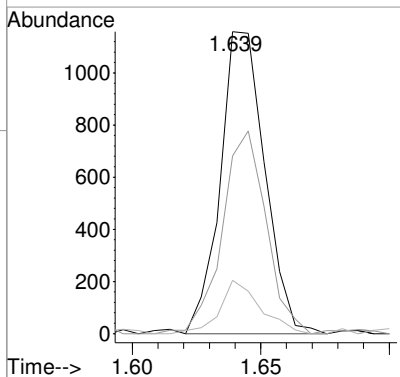
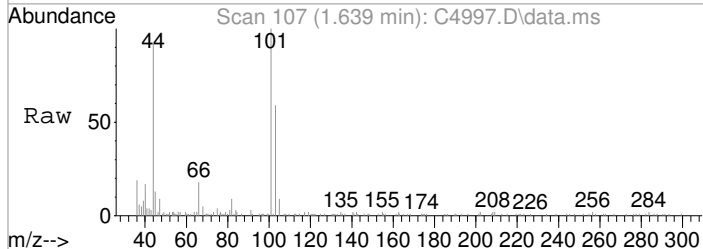
Quant Time: Feb 16 15:14:51 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





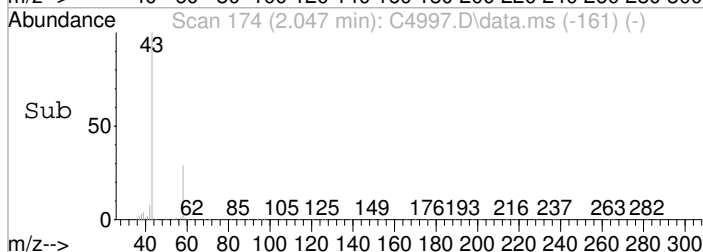
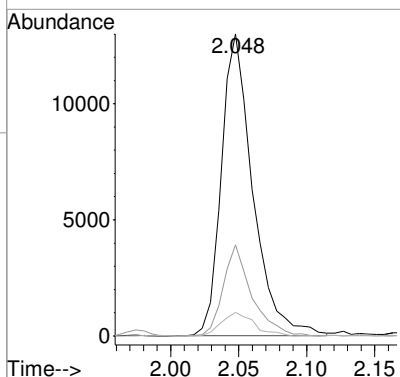
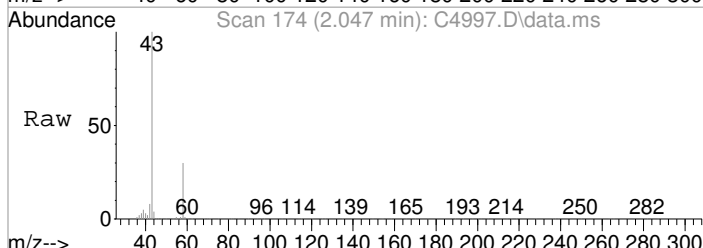
#8  
 Trichlorofluoromethane  
 Concen: 0.54 ug/L  
 RT: 1.639 min Scan# 107  
 Delta R.T. -0.006 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

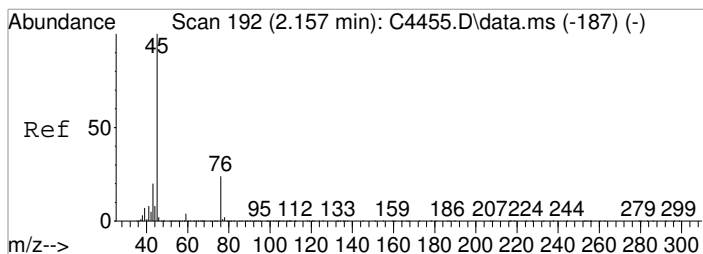
Tgt Ion	Resp	Lower	Upper
101	1400		
103	58.9	44.0	84.0
66	17.6	0.0	32.9



#15  
 Acetone  
 Concen: 23.95 ug/L  
 RT: 2.047 min Scan# 174  
 Delta R.T. 0.006 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

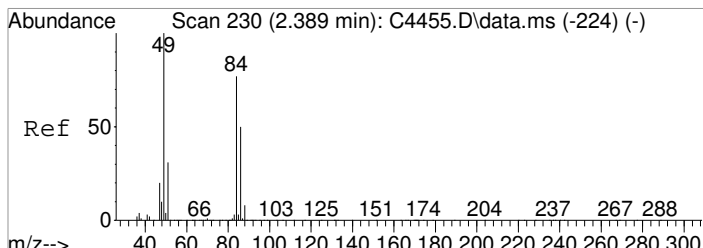
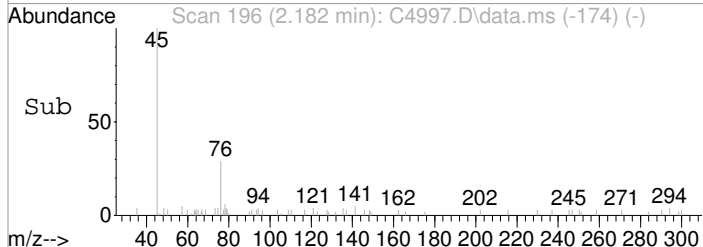
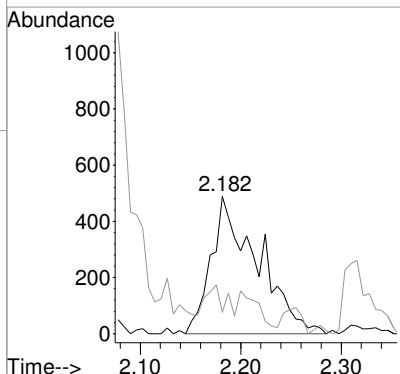
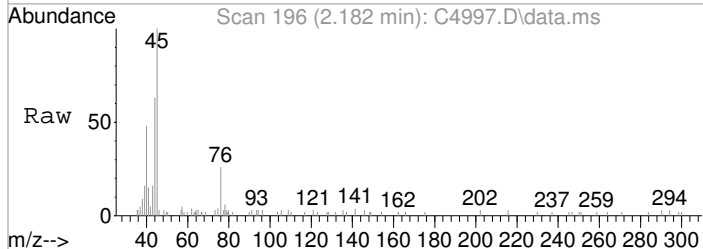
Tgt Ion	Resp	Lower	Upper
43	20888		
58	30.2	7.1	47.1
42	7.8	0.0	28.6





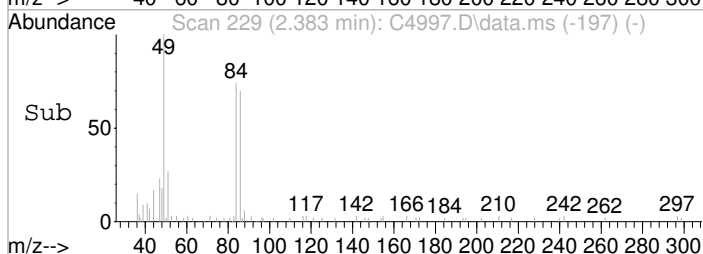
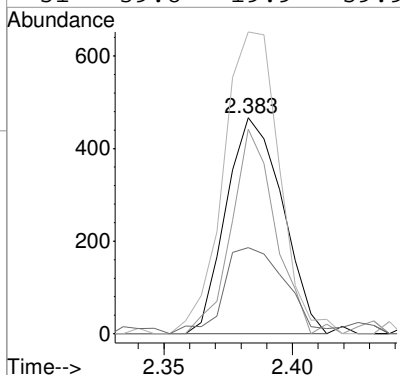
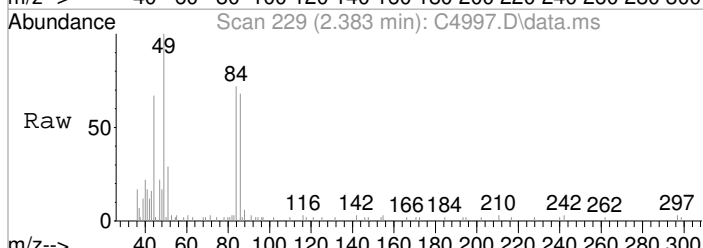
#16  
 2-Propanol  
 Concen: 7.87 ug/L m  
 RT: 2.182 min Scan# 196  
 Delta R.T. 0.024 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

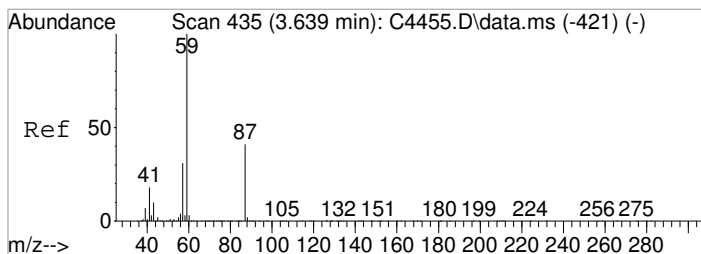
Tgt Ion	Resp	Lower	Upper
45	1565		
43	15.5	0.1	40.1



#22  
 Methylene Chloride  
 Concen: 0.35 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

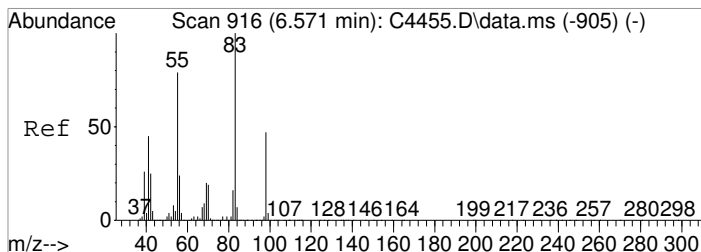
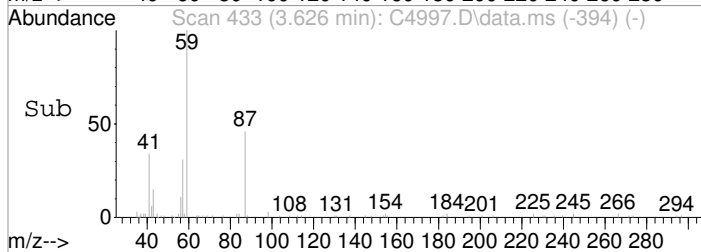
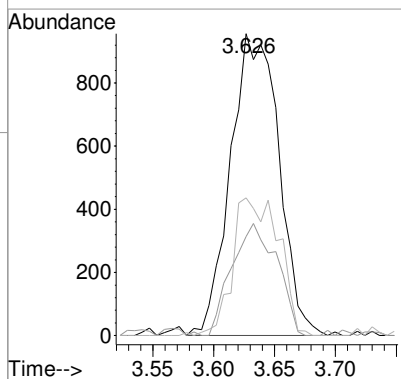
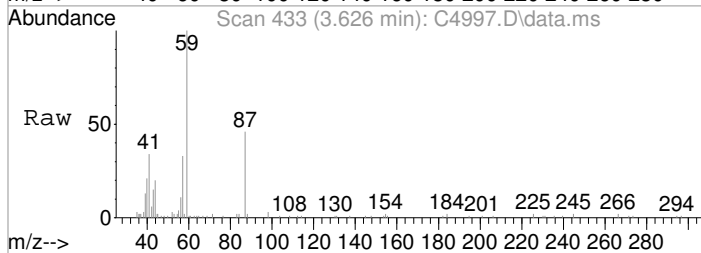
Tgt Ion	Resp	Lower	Upper
84	711		
86	94.6	43.9	83.9#
49	139.6	109.1	149.1
51	39.8	19.9	59.9





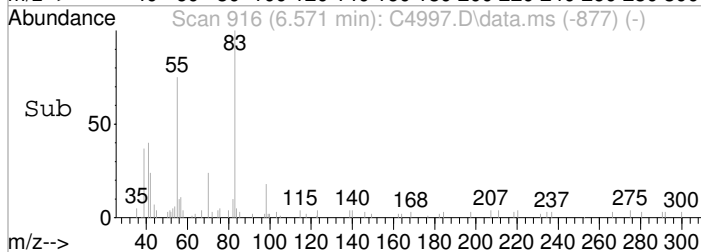
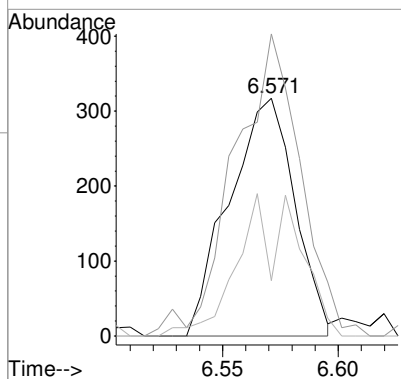
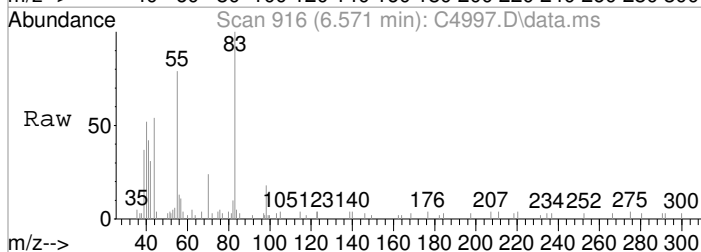
#31  
 ETBE  
 Concen: 0.40 ug/L  
 RT: 3.626 min Scan# 433  
 Delta R.T. -0.012 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

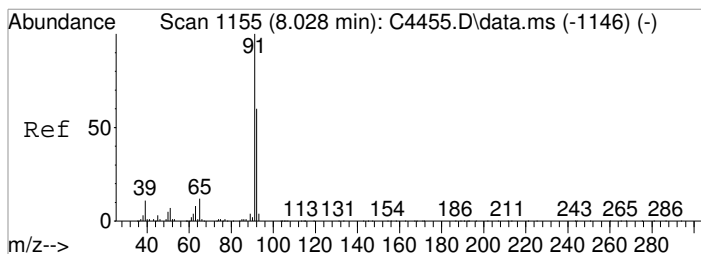
Tgt Ion	Resp	Lower	Upper
59	100		
57	32.8	11.5	51.5
87	45.6	21.4	61.4



#54  
 Methylcyclohexane  
 Concen: 0.23 ug/L  
 RT: 6.571 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

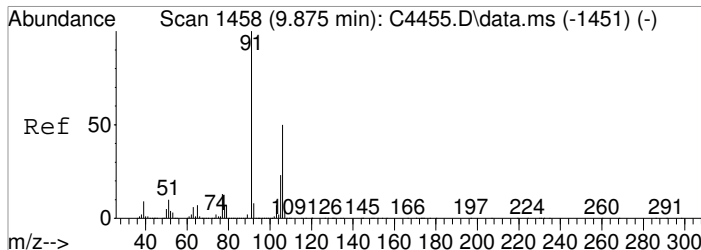
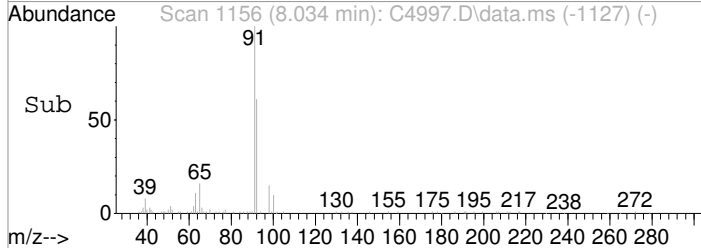
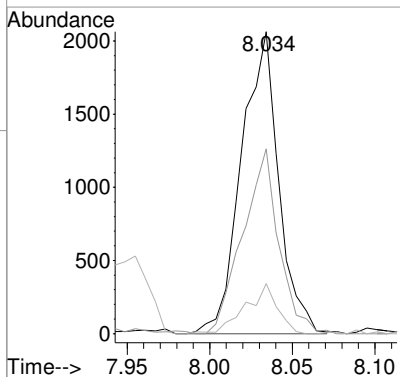
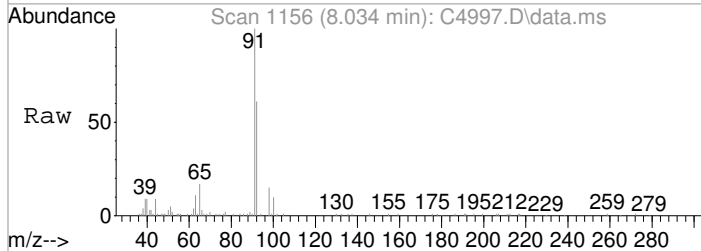
Tgt Ion	Resp	Lower	Upper
55	100		
83	133.4	106.2	146.2
98	23.3	39.7	79.7#





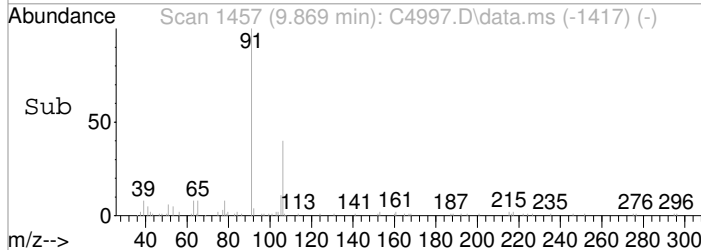
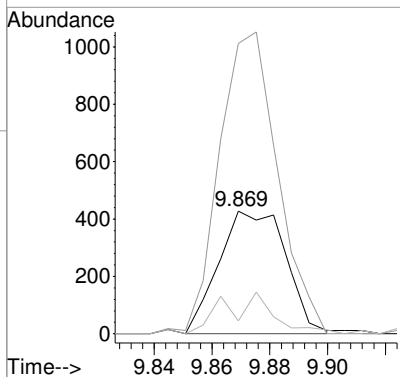
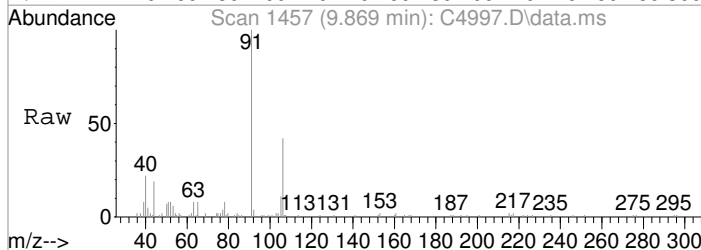
#65  
 Toluene  
 Concen: 0.39 ug/L  
 RT: 8.034 min Scan# 1156  
 Delta R.T. 0.006 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	61.3	39.7	79.7
65	16.6	0.0	31.9



#80  
 (m+p)Xylene  
 Concen: 0.20 ug/L  
 RT: 9.869 min Scan# 1457  
 Delta R.T. -0.006 min  
 Lab File: C4997.D  
 Acq: 16 Feb 2018 2:10 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	237.0	180.9	220.9#
77	10.5	5.7	45.7



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4998.D  
 Acq On : 16 Feb 2018 2:34 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-010|0.67 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 16 15:20:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

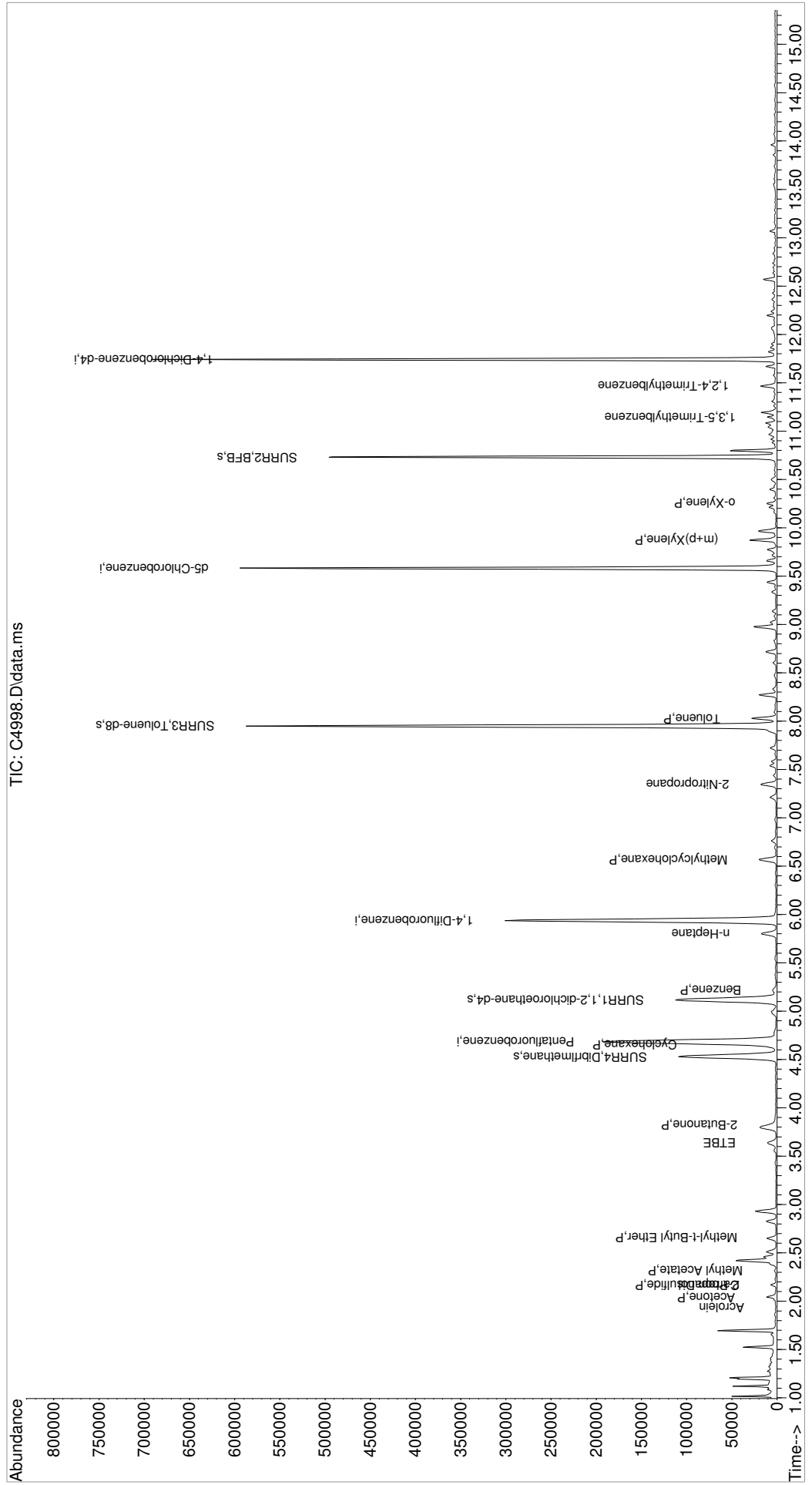
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	185856	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	286928	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	252727	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	123867	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	87406	48.92	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	97.84%		
47) SURR1,1,2-dichloroetha...	5.114	65	115395	53.92	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	107.84%		
64) SURR3,Toluene-d8	7.949	98	353216	51.69	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	103.38%		
69) SURR2,BFB	10.729	95	131915	47.86	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	95.72%		
Target Compounds						
						Qvalue
12) Acrolein	1.932	56	200	0.50	ug/L #	60
15) Acetone	2.042	43	10034	11.91	ug/L	92
16) 2-Propanol	2.170	45	678	3.53	ug/L	88
18) Carbon Disulfide	2.170	76	4809	0.86	ug/L	91
21) Methyl Acetate	2.316	43	1648	1.03	ug/L	80
25) Methyl-t-Butyl Ether	2.657	73	2110	0.35	ug/L #	1
31) ETBE	3.639	59	7765	1.22	ug/L	99
34) 2-Butanone	3.828	43	3077	2.70	ug/L	91
43) Cyclohexane	4.657	41	4297	2.22	ug/L	84
48) Benzene	5.218	78	4439	0.59	ug/L	95
51) n-Heptane	5.803	43	9029	4.11	ug/L	92
54) Methylcyclohexane	6.571	55	7207	2.63	ug/L	91
60) 2-Nitropropane	7.345	41	3358	5.50	ug/L #	1
65) Toluene	8.028	91	17243	2.10	ug/L	97
80) (m+p)Xylene	9.869	106	7127	1.96	ug/L	91
81) o-Xylene	10.253	106	1670	0.46	ug/L #	80
94) 1,3,5-Trimethylbenzene	11.144	105	3306	0.47	ug/L	91
96) 1,2,4-Trimethylbenzene	11.467	105	6286	0.87	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

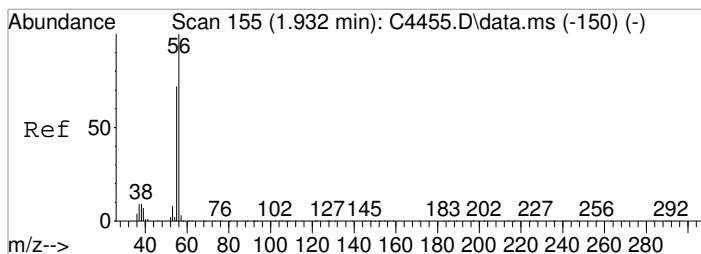
Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4998.D  
 Acq On : 16 Feb 2018 2:34 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-010|0.67  
 Misc : DAY 12666 T4  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 15:20:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

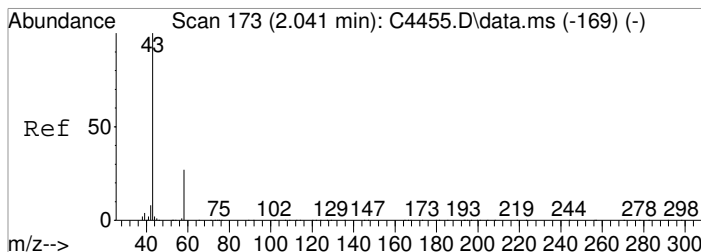
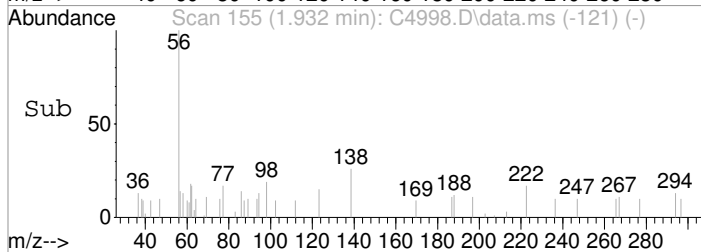
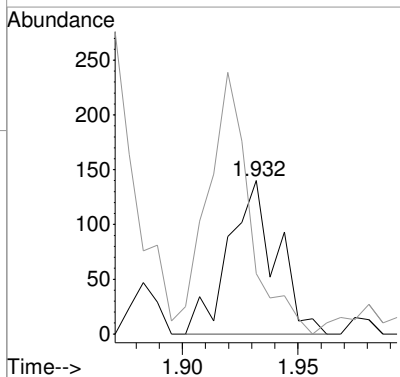
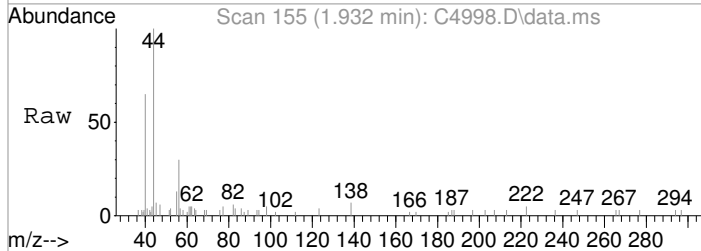






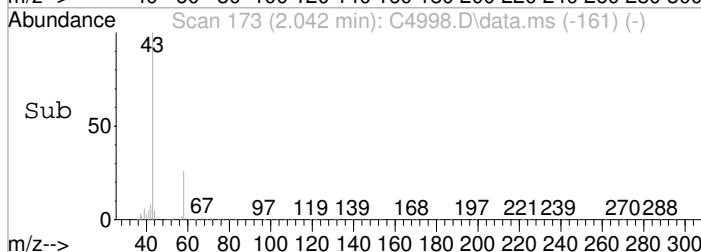
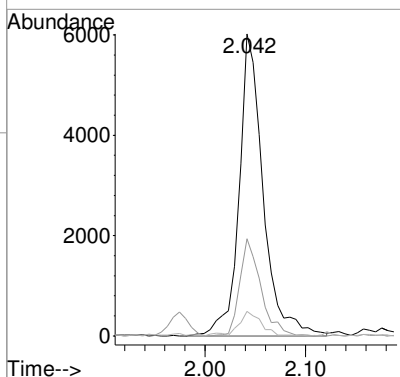
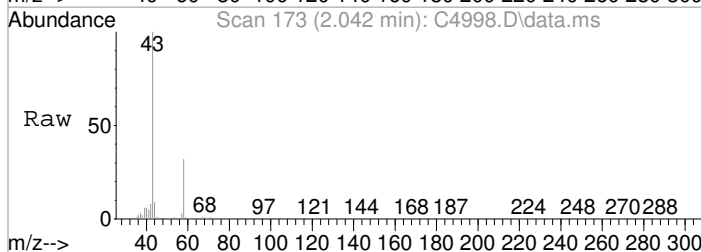
#12  
 Acrolein  
 Concen: 0.50 ug/L  
 RT: 1.932 min Scan# 155  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

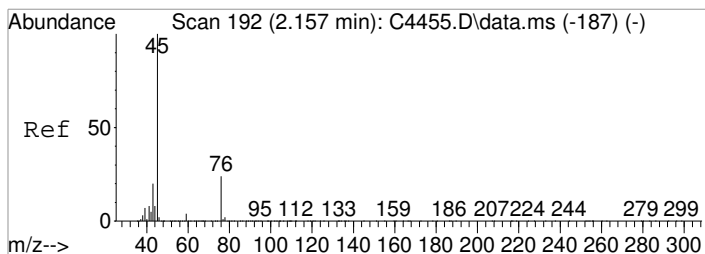
Tgt Ion	Resp	Lower	Upper
56	100		
55	39.3	52.3	92.3#



#15  
 Acetone  
 Concen: 11.91 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. 0.001 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

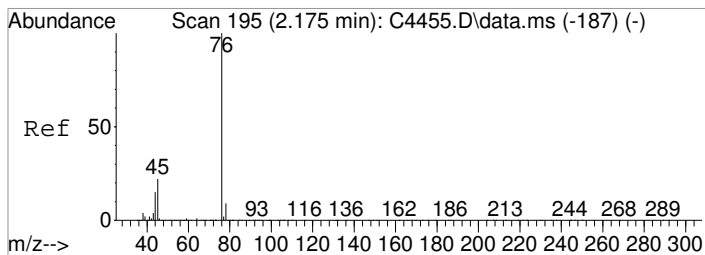
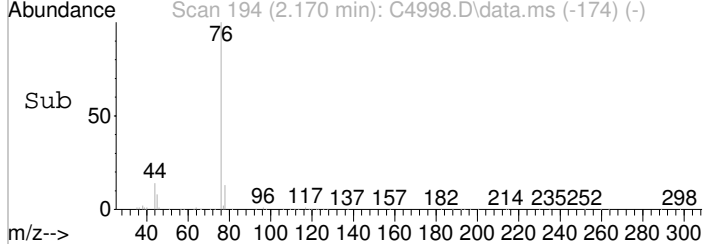
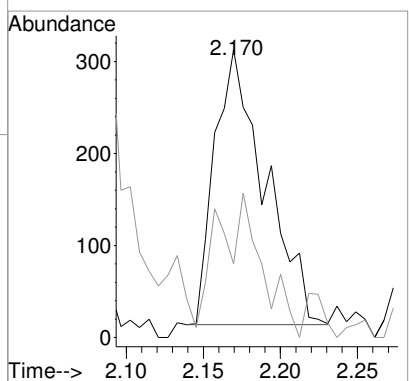
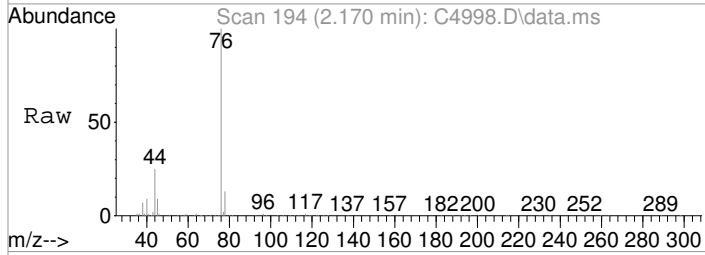
Tgt Ion	Resp	Lower	Upper
43	100		
58	32.2	7.1	47.1
42	8.1	0.0	28.6





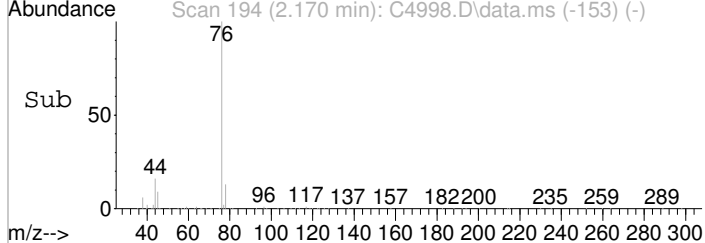
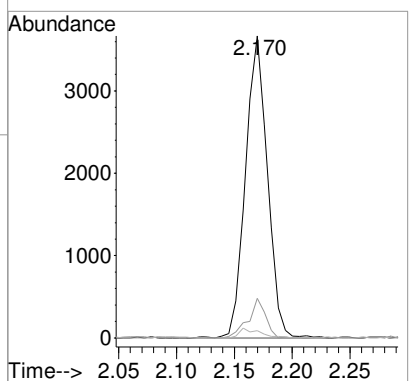
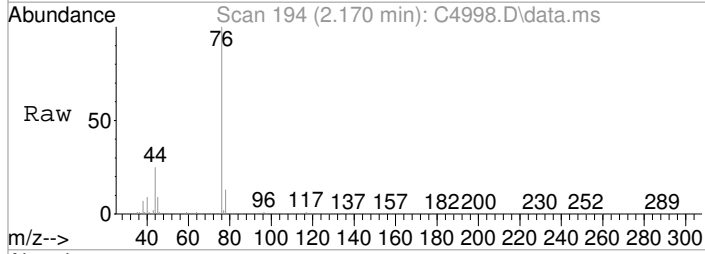
#16  
 2-Propanol  
 Concen: 3.53 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. 0.012 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

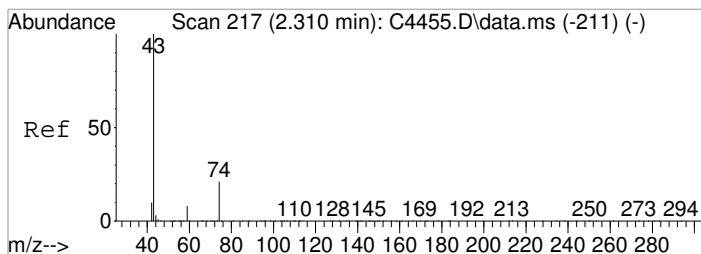
Tgt Ion	Resp	Lower	Upper
45	100		
43	25.6	0.1	40.1
678			



#18  
 Carbon Disulfide  
 Concen: 0.86 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

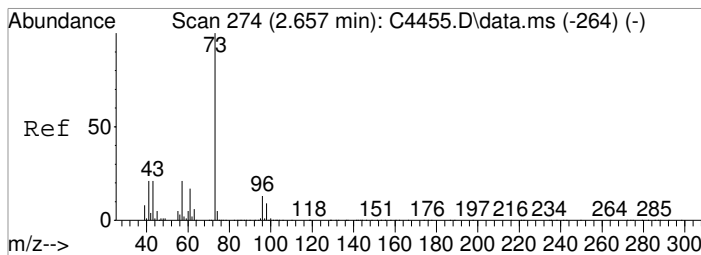
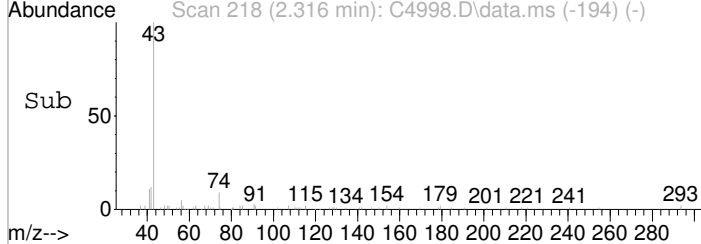
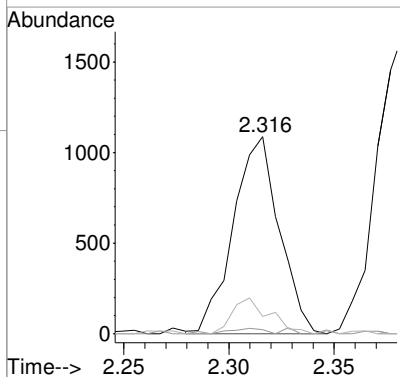
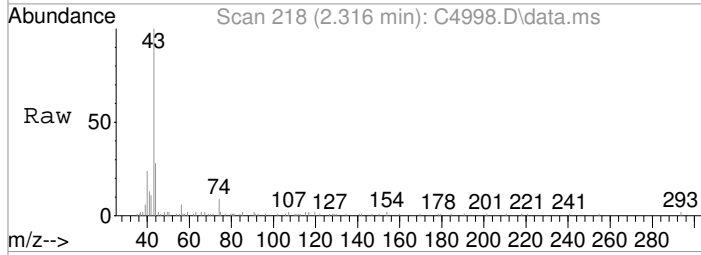
Tgt Ion	Resp	Lower	Upper
76	100		
78	13.1	0.0	28.9
77	2.4	0.0	22.4
4809			





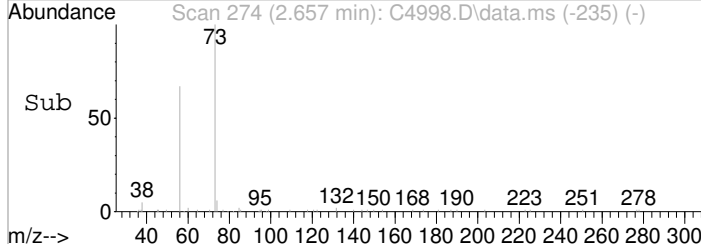
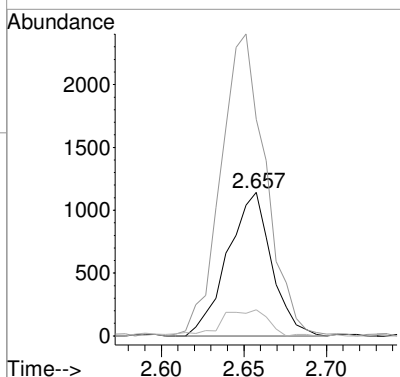
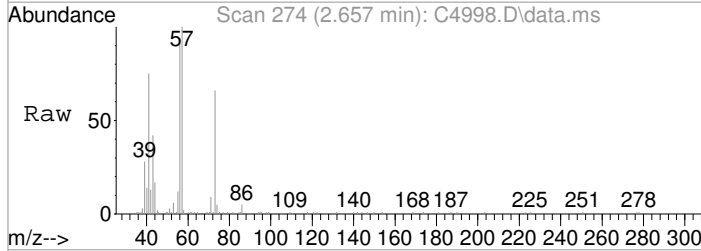
#21  
 Methyl Acetate  
 Concen: 1.03 ug/L  
 RT: 2.316 min Scan# 218  
 Delta R.T. 0.006 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

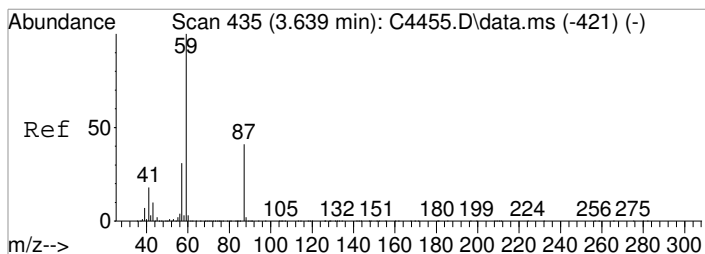
Tgt Ion	Resp	Lower	Upper
43	1648		
59	2.1	0.0	27.7
74	10.9	1.0	41.0



#25  
 Methyl-t-Butyl Ether  
 Concen: 0.35 ug/L  
 RT: 2.657 min Scan# 274  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

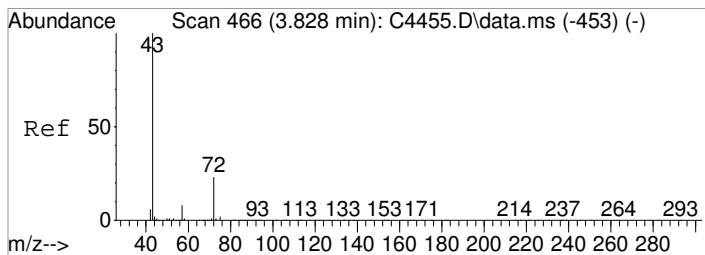
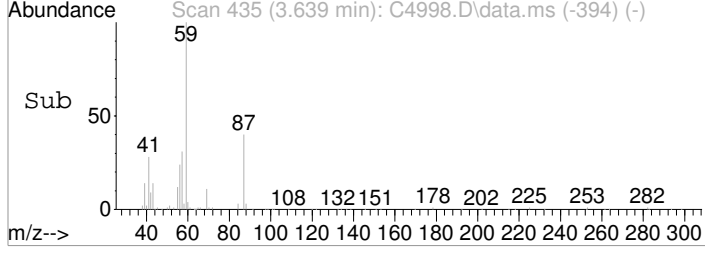
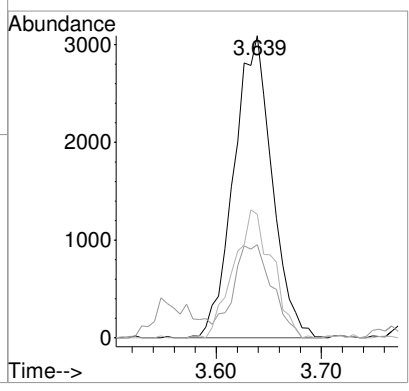
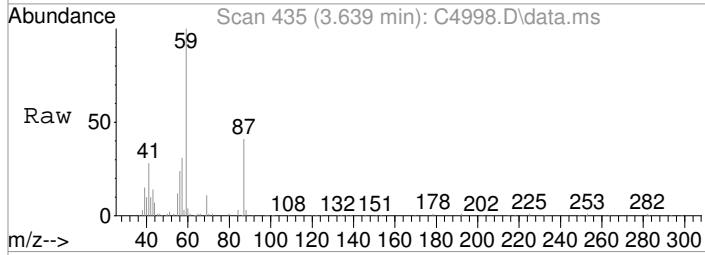
Tgt Ion	Resp	Lower	Upper
73	2110		
57	150.8	1.2	41.2#
55	18.3	0.0	24.7





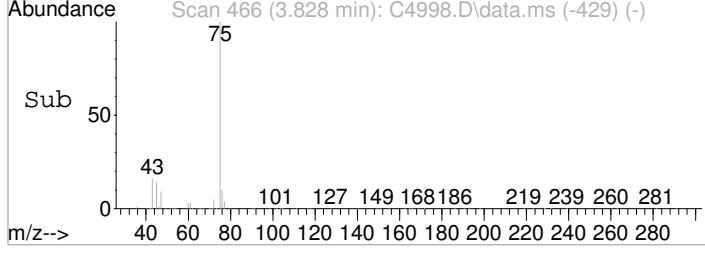
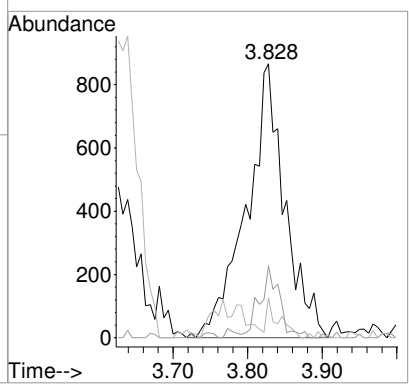
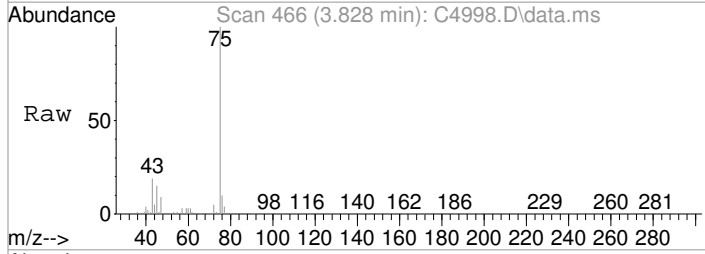
#31  
 ETBE  
 Concen: 1.22 ug/L  
 RT: 3.639 min Scan# 435  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

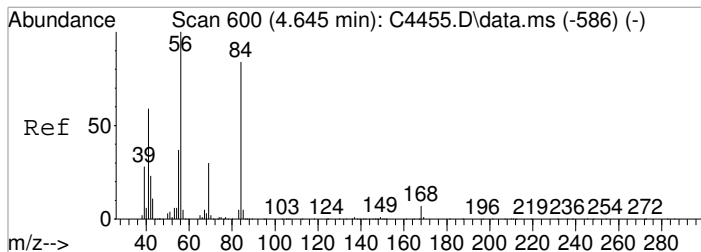
Tgt Ion	Resp	Lower	Upper
59	100		
57	30.8	11.5	51.5
87	40.9	21.4	61.4



#34  
 2-Butanone  
 Concen: 2.70 ug/L  
 RT: 3.828 min Scan# 466  
 Delta R.T. 0.001 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

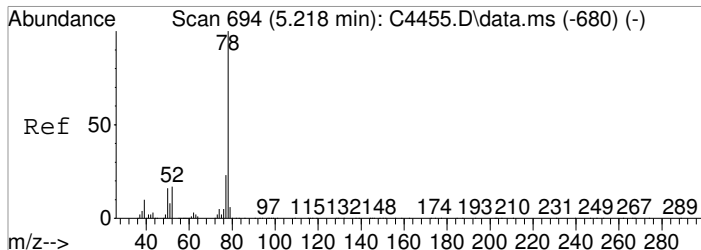
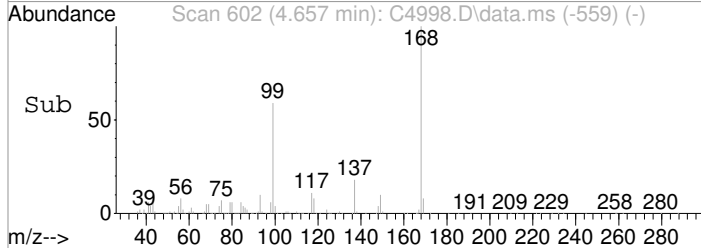
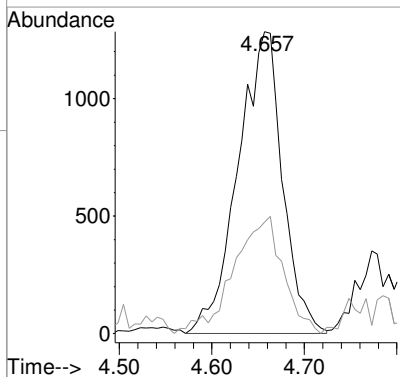
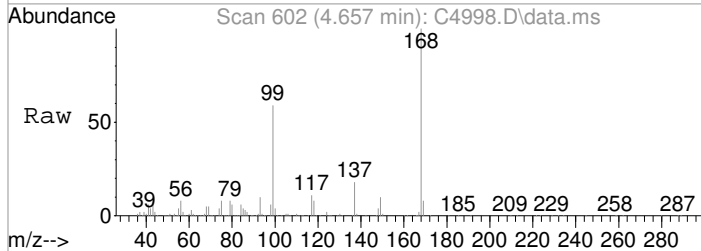
Tgt Ion	Resp	Lower	Upper
43	100		
72	26.3	3.3	43.3
57	14.7	0.0	28.0





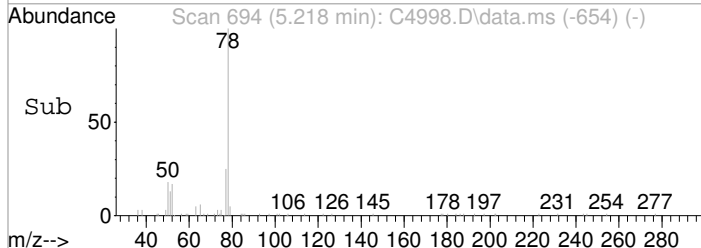
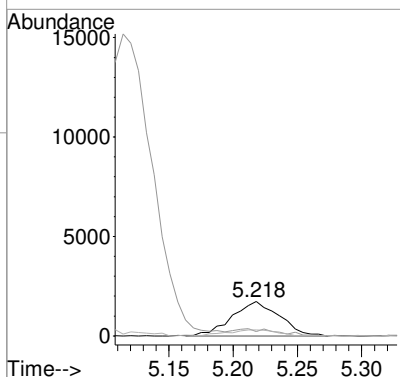
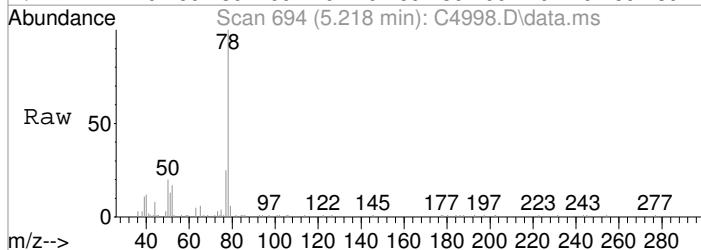
#43  
 Cyclohexane  
 Concen: 2.22 ug/L  
 RT: 4.657 min Scan# 602  
 Delta R.T. 0.012 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

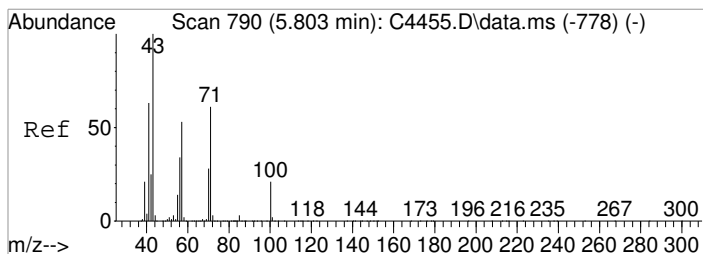
Tgt Ion	Resp	Lower	Upper
41	4297		
41	100		
39	36.9	28.0	68.0



#48  
 Benzene  
 Concen: 0.59 ug/L  
 RT: 5.218 min Scan# 694  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

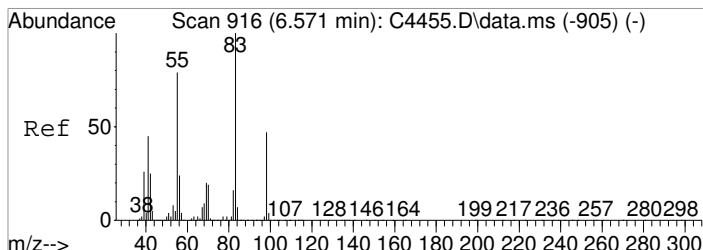
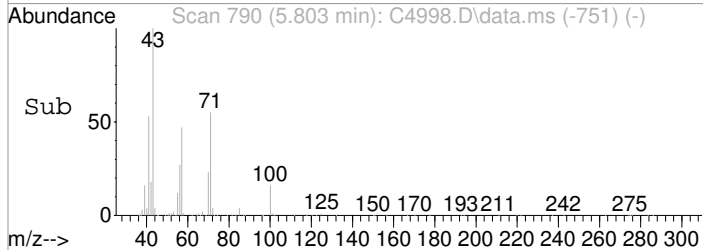
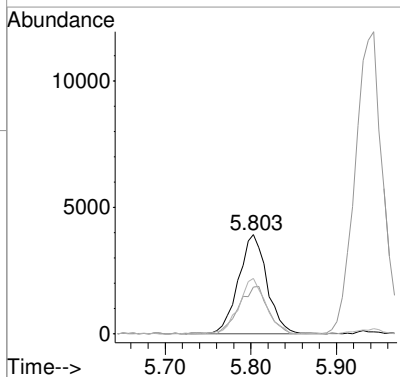
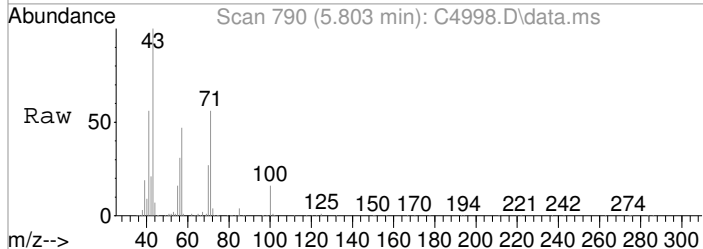
Tgt Ion	Resp	Lower	Upper
78	4439		
78	100		
51	13.1	0.0	37.4
52	17.2	0.0	36.9





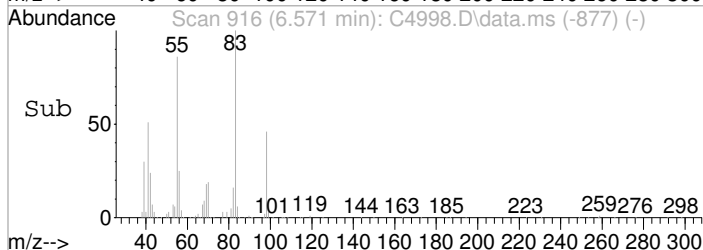
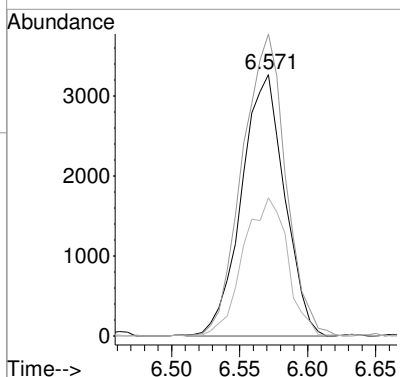
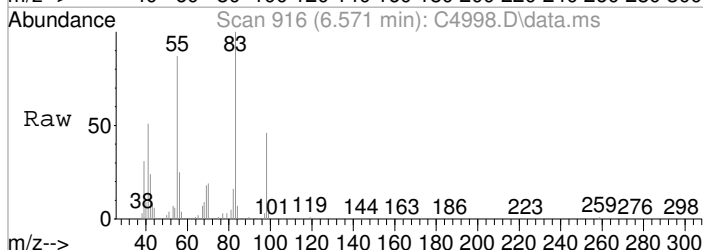
#51  
 n-Heptane  
 Concen: 4.11 ug/L  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

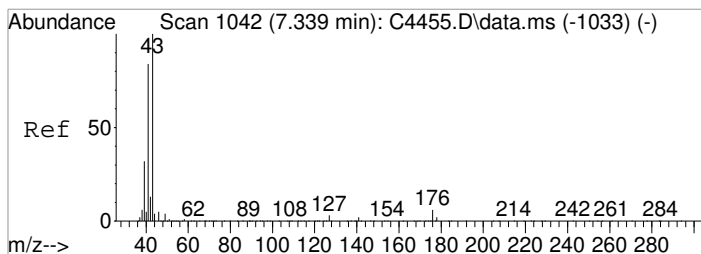
Tgt Ion	Resp	Lower	Upper
43	100		
57	47.2	33.3	73.3
71	55.9	40.9	80.9



#54  
 Methylcyclohexane  
 Concen: 2.63 ug/L  
 RT: 6.571 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

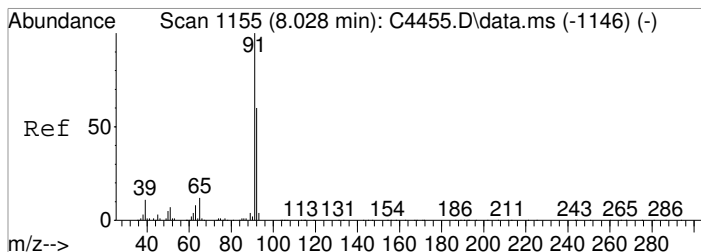
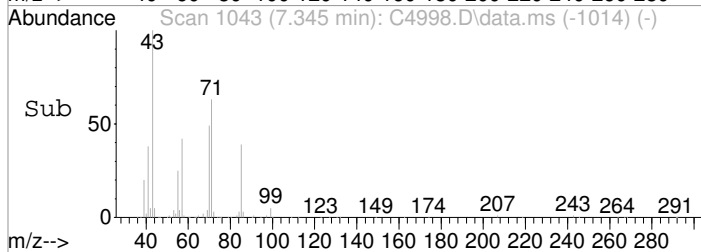
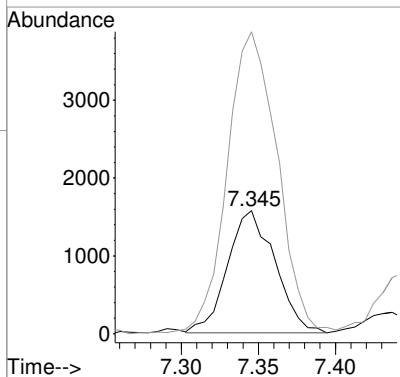
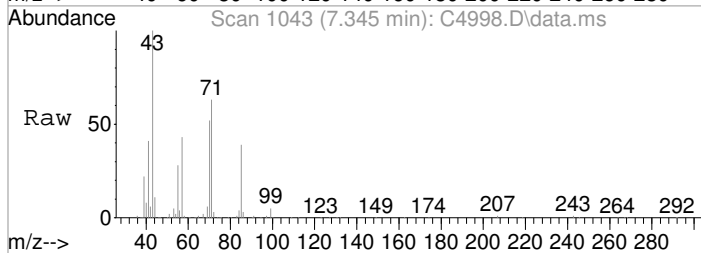
Tgt Ion	Resp	Lower	Upper
55	100		
83	115.5	106.2	146.2
98	52.9	39.7	79.7





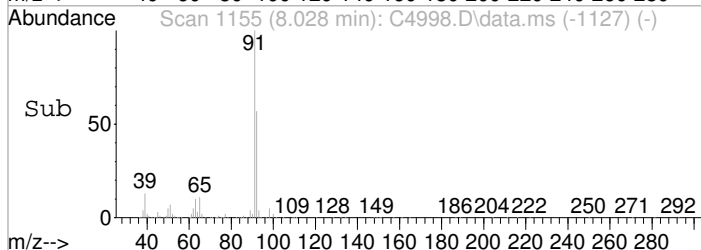
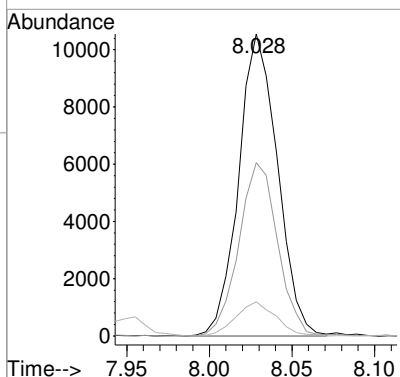
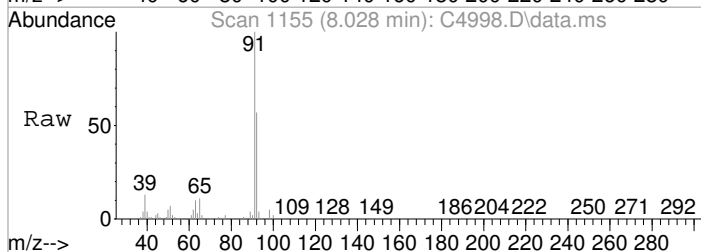
#60  
 2-Nitropropane  
 Concen: 5.50 ug/L  
 RT: 7.345 min Scan# 1043  
 Delta R.T. 0.006 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

Tgt Ion	Resp	Lower	Upper
41	3358		
43	100		
43	245.3	98.6	138.6#

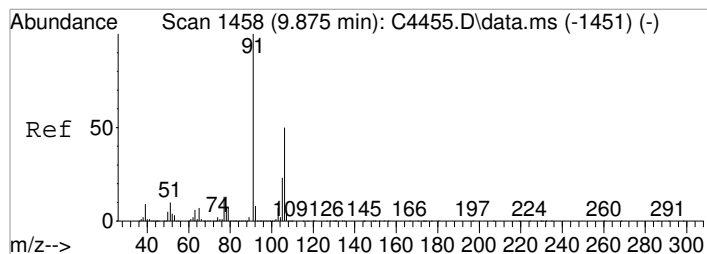


#65  
 Toluene  
 Concen: 2.10 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

Tgt Ion	Resp	Lower	Upper
91	17243		
91	100		
92	57.4	39.7	79.7
65	11.3	0.0	31.9

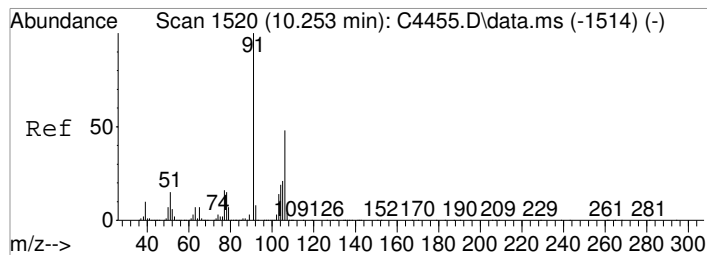
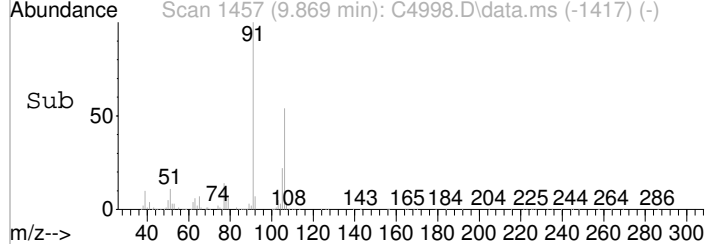
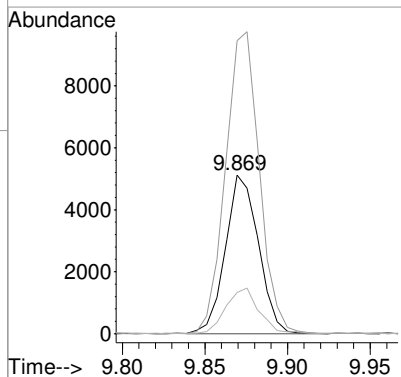
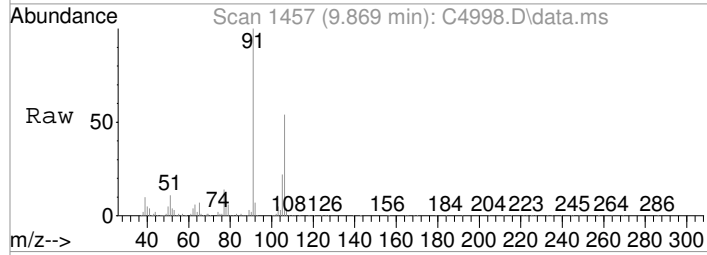






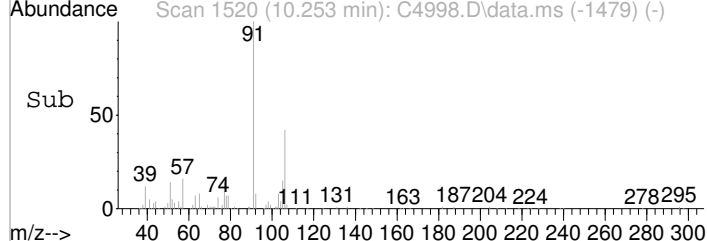
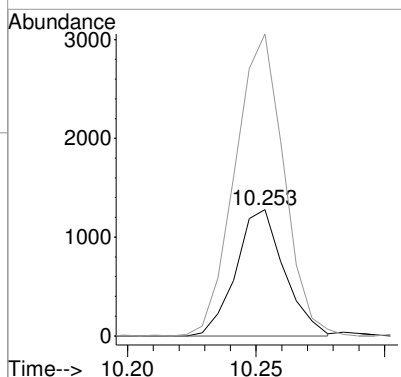
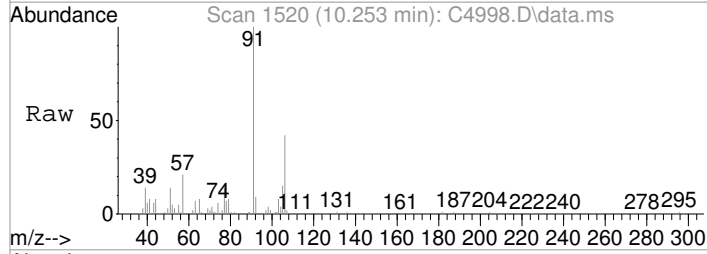
#80  
 (m+p)Xylene  
 Concen: 1.96 ug/L  
 RT: 9.869 min Scan# 1457  
 Delta R.T. -0.006 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

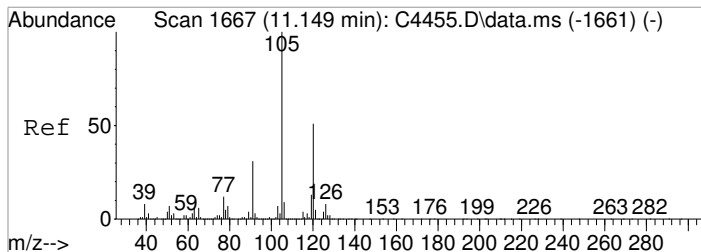
Tgt Ion	Ion	Resp	Lower	Upper
106	100	7127		
91	184.8	180.9	220.9	
77	26.0	5.7	45.7	



#81  
 o-Xylene  
 Concen: 0.46 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

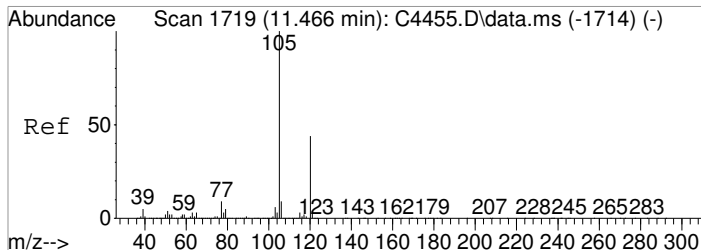
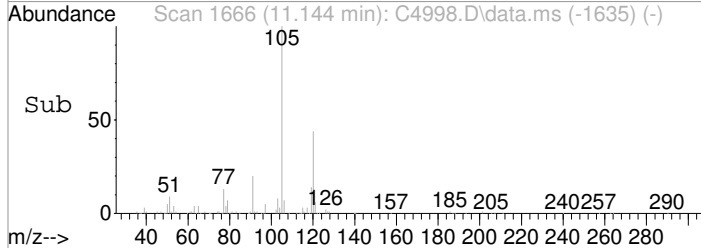
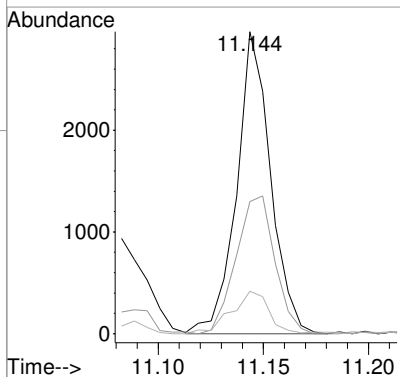
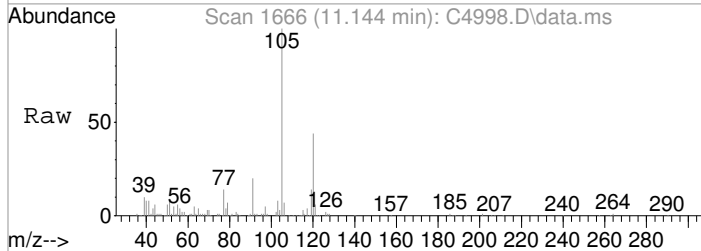
Tgt Ion	Ion	Resp	Lower	Upper
106	100	1670		
91	239.2	187.6	227.6#	





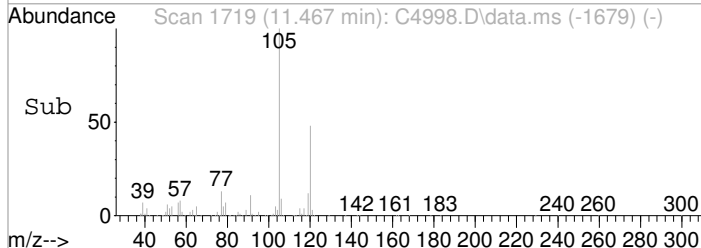
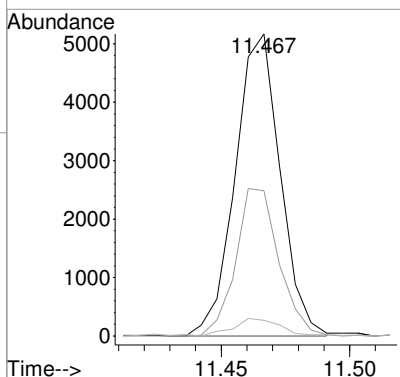
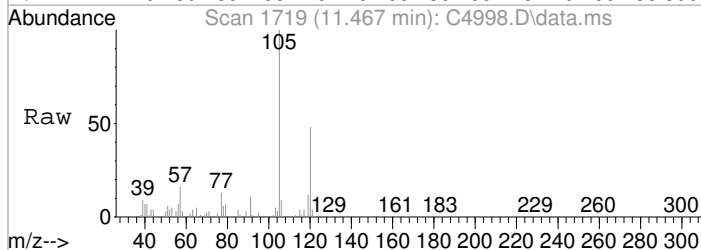
#94  
 1,3,5-Trimethylbenzene  
 Concen: 0.47 ug/L  
 RT: 11.144 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

Tgt Ion	Resp	Lower	Upper
105	3306		
120	43.7	30.5	70.5
77	14.0	0.0	32.4



#96  
 1,2,4-Trimethylbenzene  
 Concen: 0.87 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C4998.D  
 Acq: 16 Feb 2018 2:34 pm

Tgt Ion	Resp	Lower	Upper
105	6286		
120	48.1	26.3	66.3
65	5.2	0.0	24.4



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4999.D  
 Acq On : 16 Feb 2018 2:57 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-011|0.72 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 16 15:26:45 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

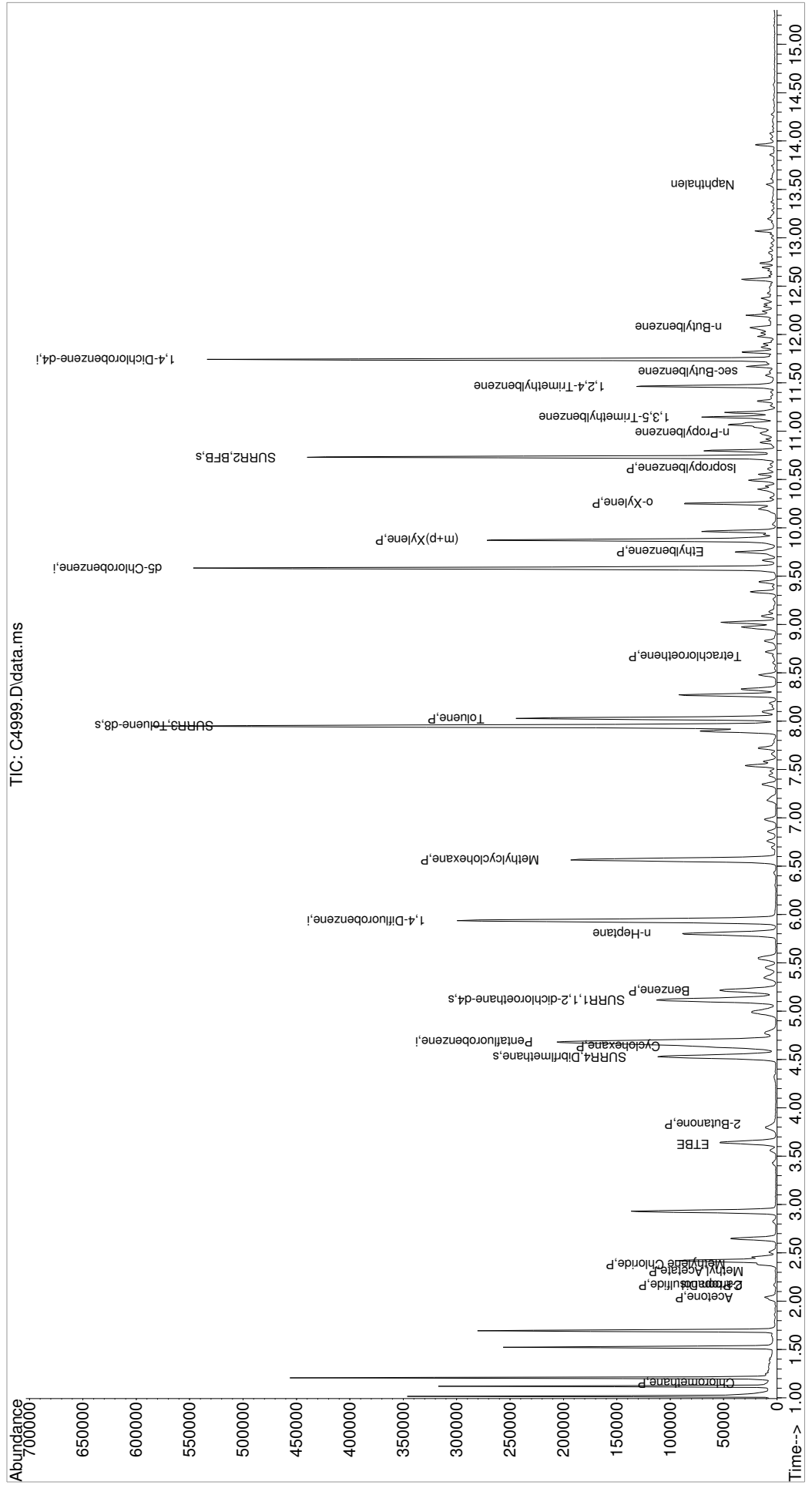
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	188474	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	287294	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	235230	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	97828	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	87806	49.08	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.16%		
47) SURR1,1,2-dichloroetha...	5.114	65	115122	53.72	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	107.44%		
64) SURR3,Toluene-d8	7.949	98	344182	50.31	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	100.62%		
69) SURR2,BFB	10.729	95	112505	40.76	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	81.52%		
Target Compounds						
						Qvalue
3) Chloromethane	1.151	50	633	0.22	ug/L	87
15) Acetone	2.042	43	11878	13.91	ug/L	94
16) 2-Propanol	2.170	45	1169	6.00	ug/L	89
18) Carbon Disulfide	2.170	76	1148	0.20	ug/L	93
21) Methyl Acetate	2.310	43	562	0.35	ug/L	95
22) Methylene Chloride	2.383	84	1309	0.67	ug/L #	71
31) ETBE	3.627	59	1932	0.30	ug/L #	67
34) 2-Butanone	3.834	43	2771	2.40	ug/L	84
43) Cyclohexane	4.639	41	31512	16.27	ug/L	99
48) Benzene	5.212	78	64175	8.51	ug/L	98
51) n-Heptane	5.803	43	48394	21.45	ug/L	94
54) Methylcyclohexane	6.565	55	72306	26.37	ug/L	96
65) Toluene	8.028	91	160464	19.49	ug/L	99
71) Tetrachloroethene	8.668	164	397	0.26	ug/L #	83
79) Ethylbenzene	9.753	106	6488	2.41	ug/L #	88
80) (m+p)Xylene	9.875	106	63902	18.92	ug/L	96
81) o-Xylene	10.253	106	18810	5.63	ug/L	100
84) Isopropylbenzene	10.613	105	3159	0.37	ug/L	95
91) n-Propylbenzene	10.985	91	5509	0.72	ug/L	95
94) 1,3,5-Trimethylbenzene	11.143	105	26258	4.69	ug/L	99
96) 1,2,4-Trimethylbenzene	11.460	105	53721	9.46	ug/L	93
97) sec-Butylbenzene	11.613	105	1463	0.20	ug/L	89
101) n-Butylbenzene	12.076	91	2414	0.43	ug/L #	31
107) Naphthalen	13.551	128	2753	0.45	ug/L	96

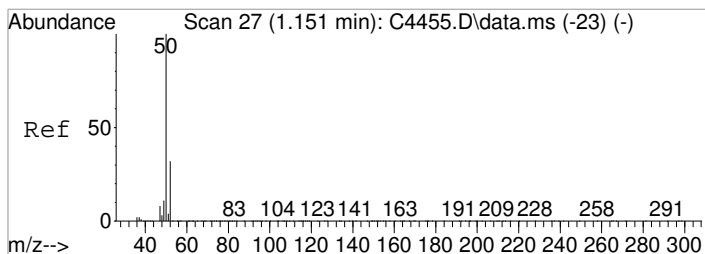
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4999.D  
 Acq On : 16 Feb 2018 2:57 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-011|0.72  
 Misc : DAY 12666 T4  
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

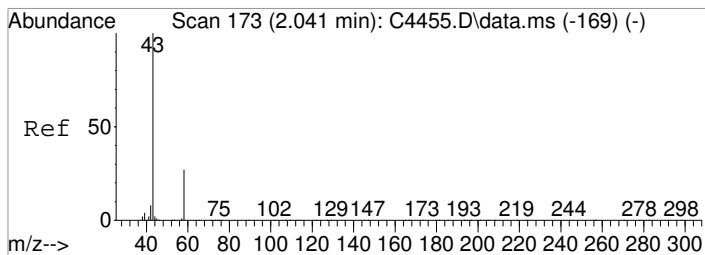
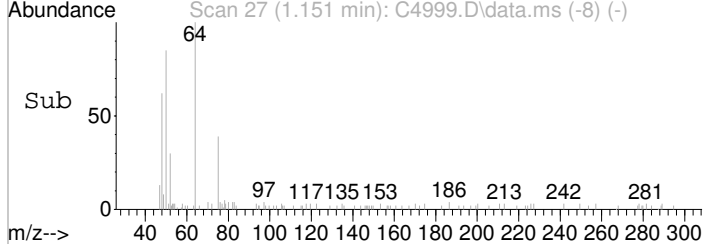
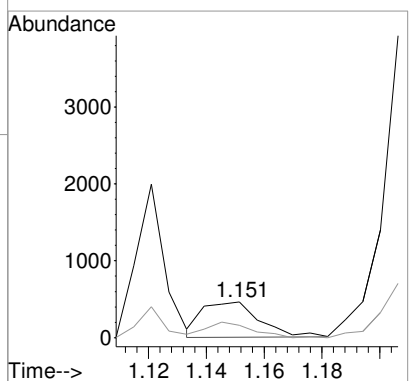
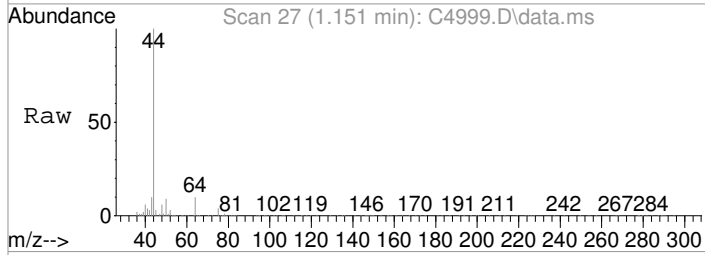
Quant Time: Feb 16 15:26:45 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





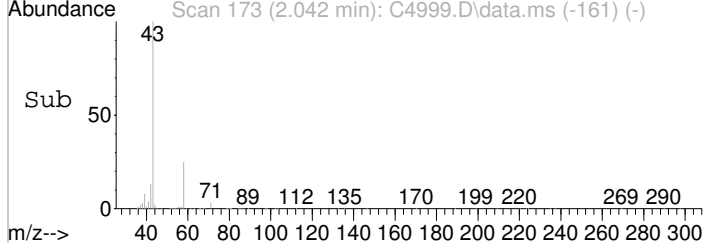
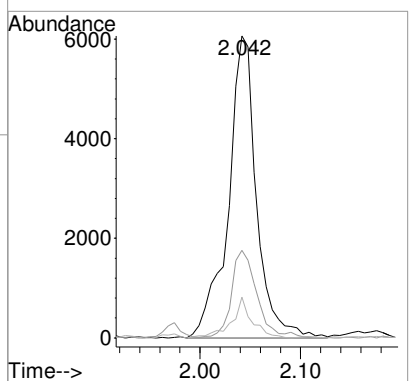
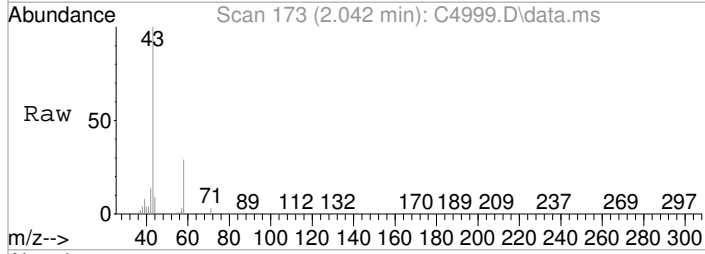
#3  
 Chloromethane  
 Concen: 0.22 ug/L  
 RT: 1.151 min Scan# 27  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

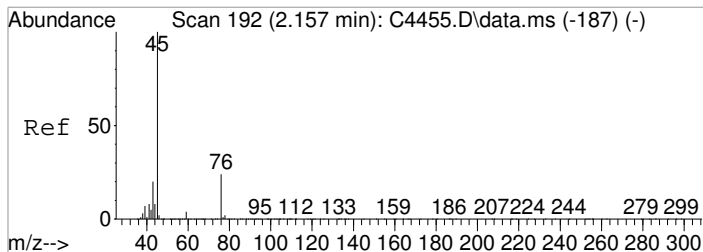
Tgt Ion	Resp	Lower	Upper
50	100		
52	39.2	12.0	52.0



#15  
 Acetone  
 Concen: 13.91 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. 0.001 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

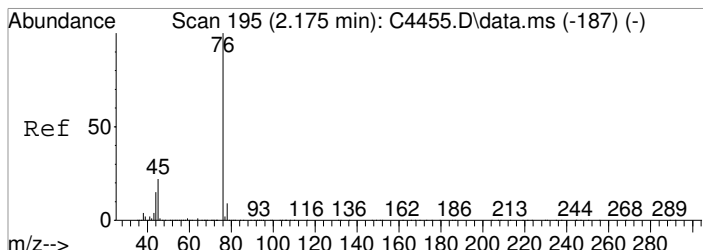
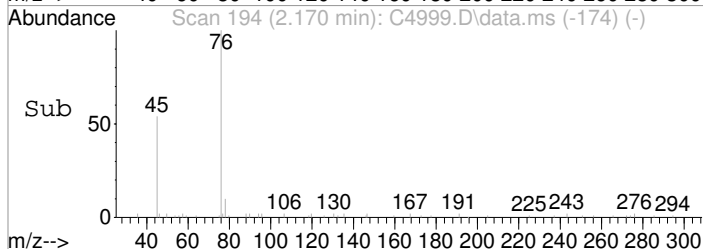
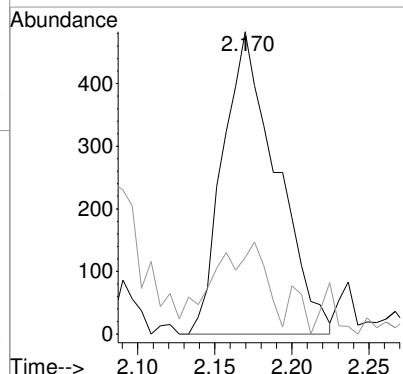
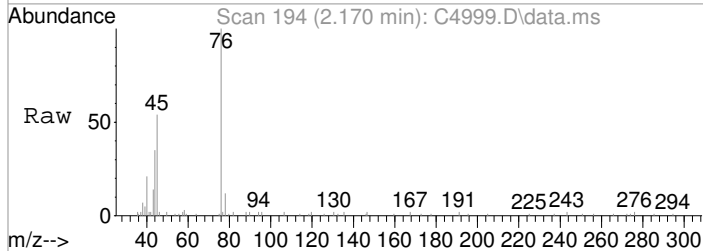
Tgt Ion	Resp	Lower	Upper
43	100		
58	29.0	7.1	47.1
42	13.6	0.0	28.6





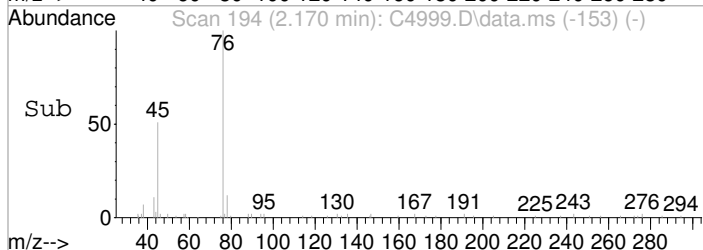
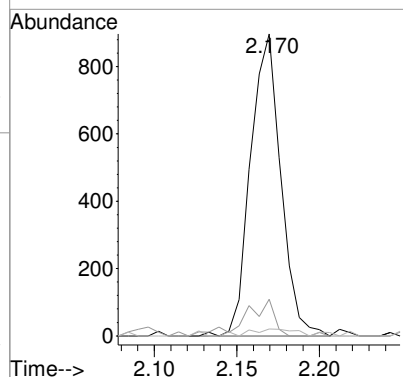
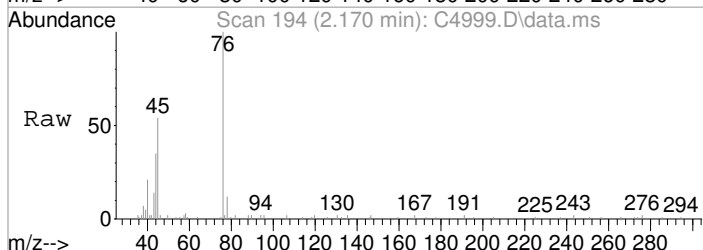
#16  
 2-Propanol  
 Concen: 6.00 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. 0.012 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

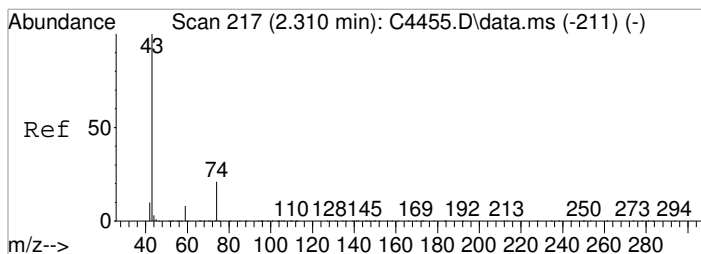
Tgt Ion	Resp	Lower	Upper
45	1169		
43	25.3	0.1	40.1



#18  
 Carbon Disulfide  
 Concen: 0.20 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

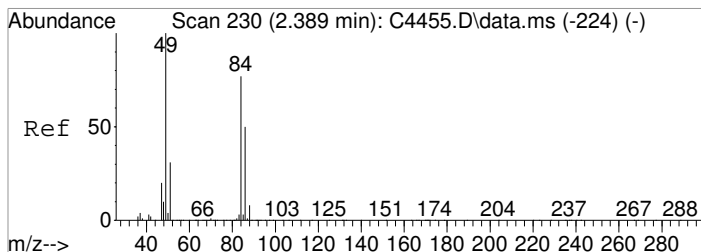
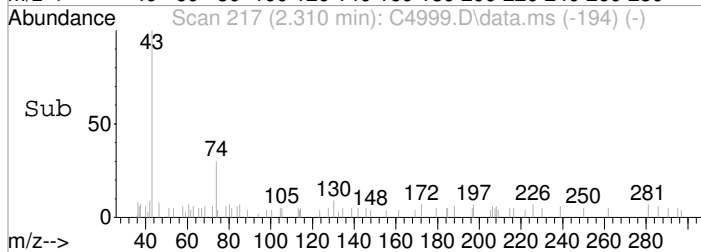
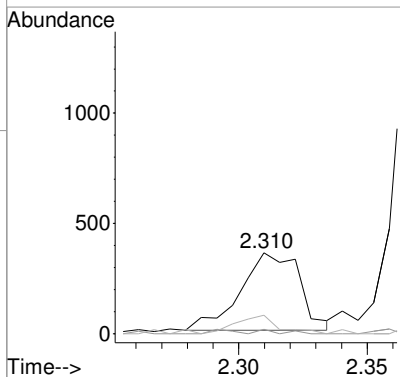
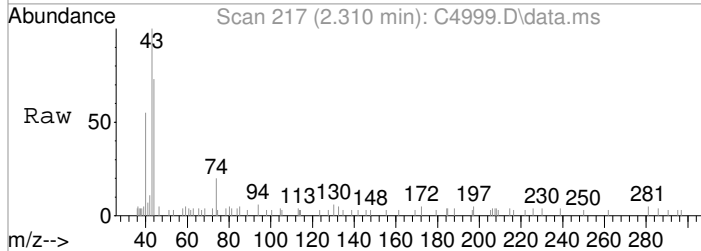
Tgt Ion	Resp	Lower	Upper
76	1148		
78	12.2	0.0	28.9
77	2.3	0.0	22.4





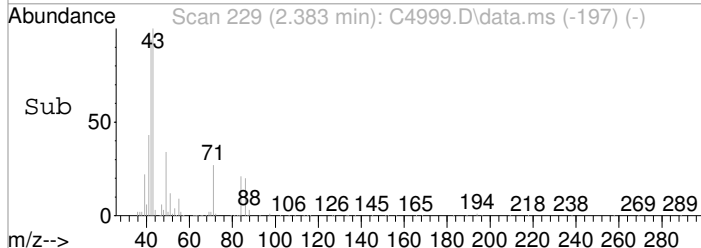
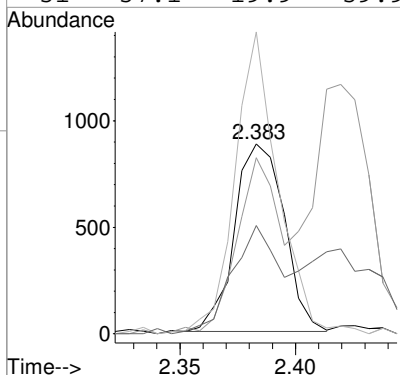
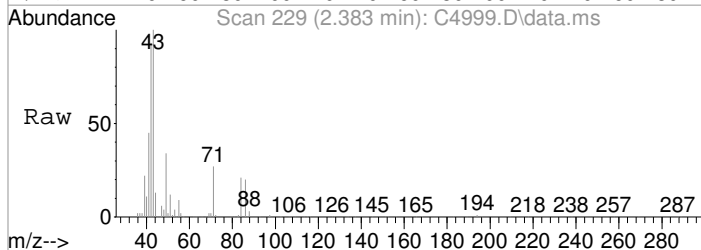
#21  
 Methyl Acetate  
 Concen: 0.35 ug/L  
 RT: 2.310 min Scan# 217  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

Tgt Ion	Resp	Lower	Upper
43	562		
43	100		
59	5.5	0.0	27.7
74	23.0	1.0	41.0

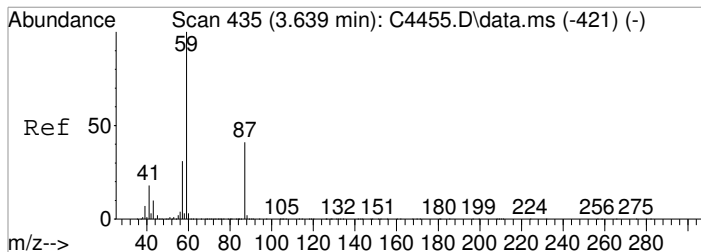


#22  
 Methylene Chloride  
 Concen: 0.67 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

Tgt Ion	Resp	Lower	Upper
84	1309		
84	100		
86	92.7	43.9	83.9#
49	159.0	109.1	149.1#
51	57.1	19.9	59.9

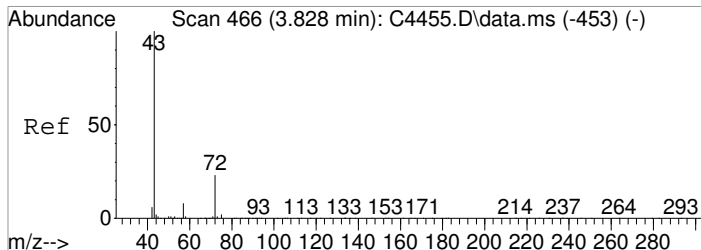
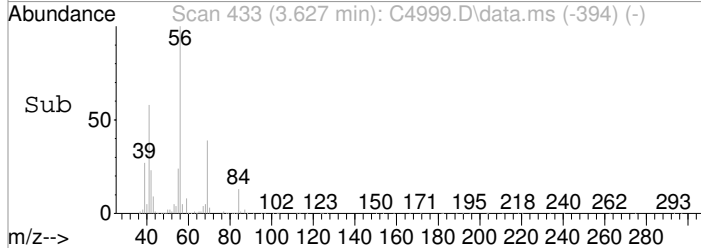
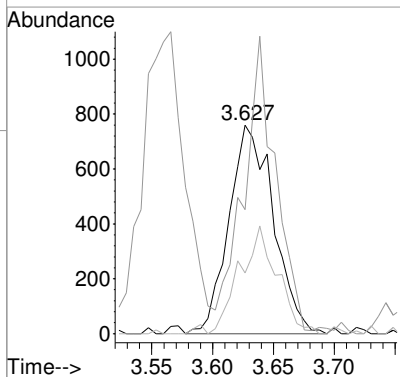
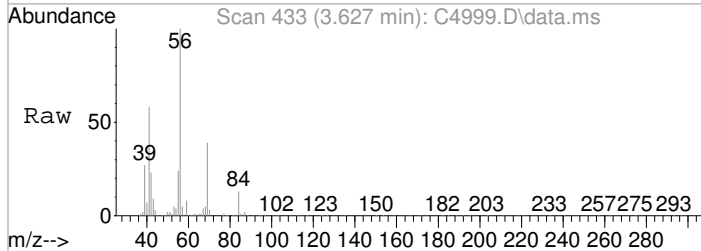






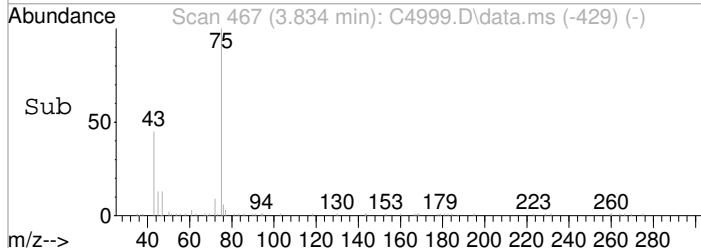
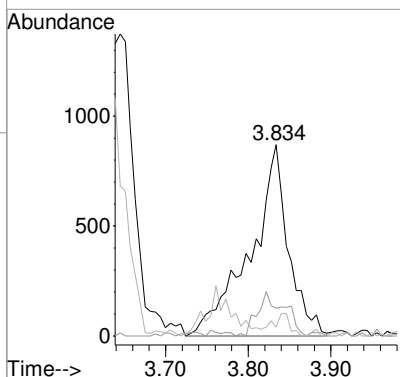
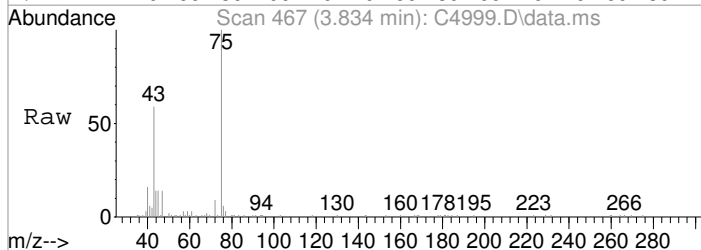
#31  
 ETBE  
 Concen: 0.30 ug/L  
 RT: 3.627 min Scan# 433  
 Delta R.T. -0.012 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

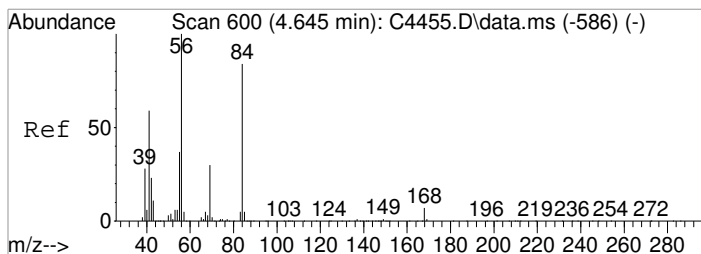
Tgt Ion	Resp	Lower	Upper
59	100		
57	59.5	11.5	51.5#
87	29.1	21.4	61.4



#34  
 2-Butanone  
 Concen: 2.40 ug/L  
 RT: 3.834 min Scan# 467  
 Delta R.T. 0.007 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

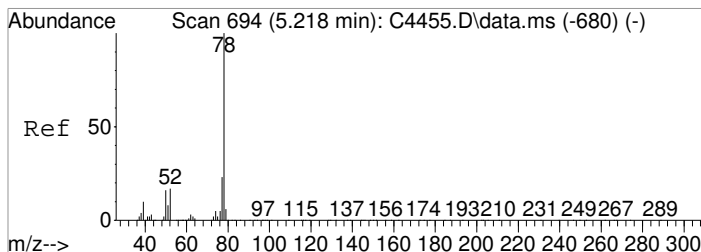
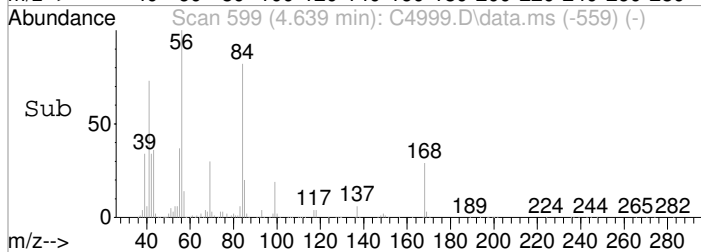
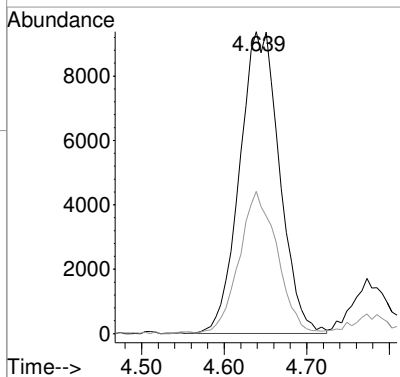
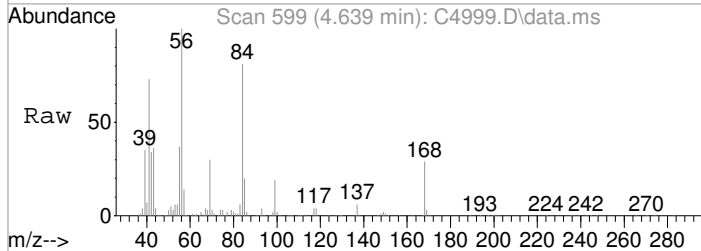
Tgt Ion	Resp	Lower	Upper
43	100		
72	14.6	3.3	43.3
57	4.7	0.0	28.0





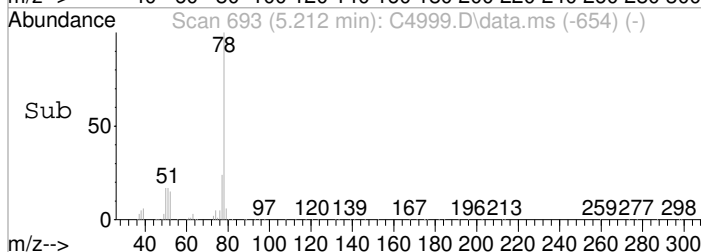
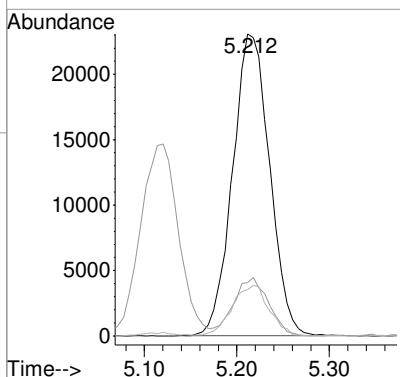
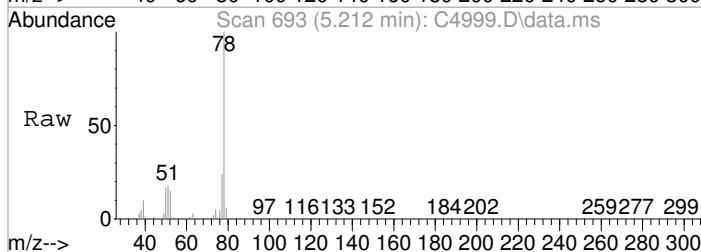
#43  
 Cyclohexane  
 Concen: 16.27 ug/L  
 RT: 4.639 min Scan# 599  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

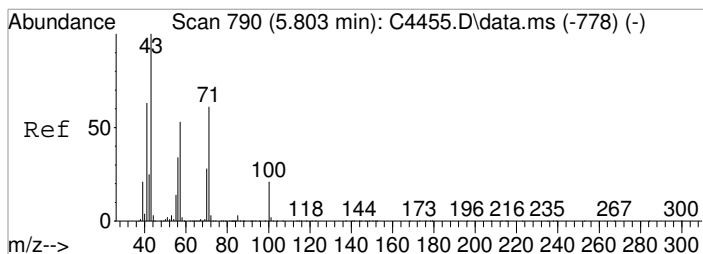
Tgt Ion	Resp	Lower	Upper
41	31512		
41	100		
39	47.1	28.0	68.0



#48  
 Benzene  
 Concen: 8.51 ug/L  
 RT: 5.212 min Scan# 693  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

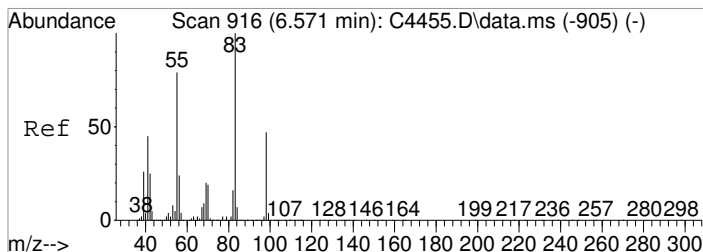
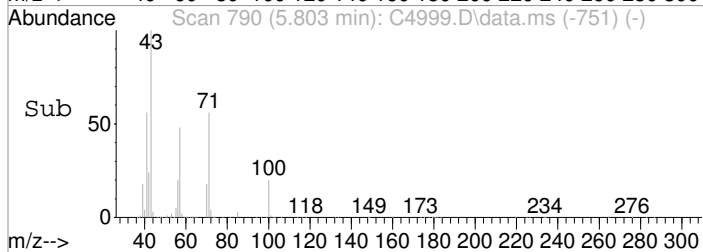
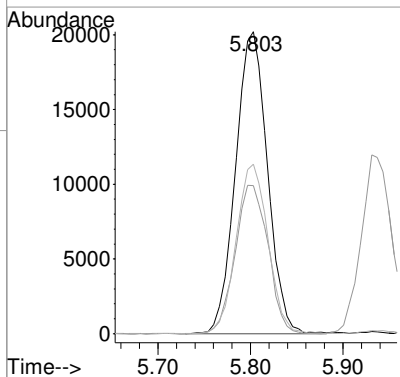
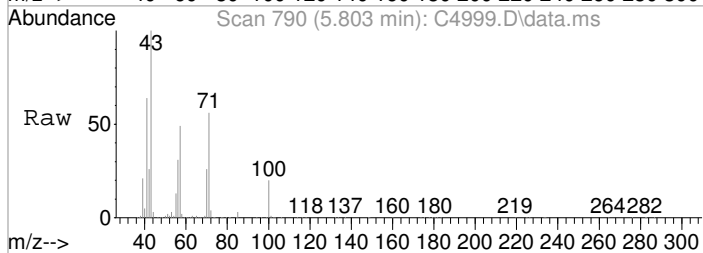
Tgt Ion	Resp	Lower	Upper
78	64175		
78	100		
51	17.6	0.0	37.4
52	15.3	0.0	36.9





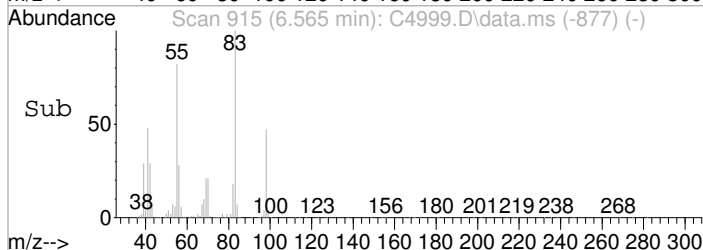
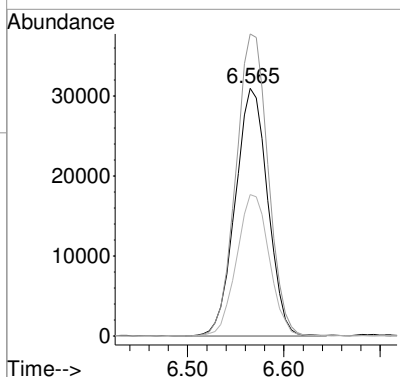
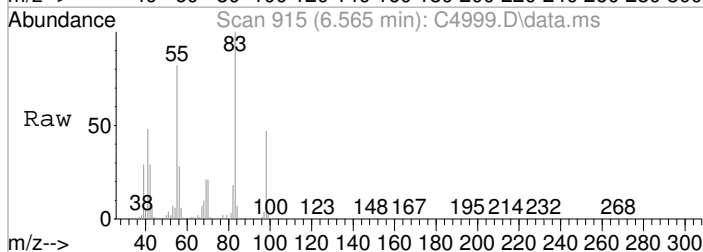
#51  
 n-Heptane  
 Concen: 21.45 ug/L  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

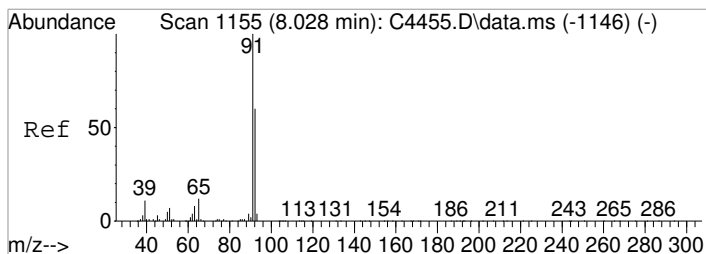
Tgt Ion	Resp	Lower	Upper
43	100		
57	49.0	33.3	73.3
71	56.2	40.9	80.9



#54  
 Methylcyclohexane  
 Concen: 26.37 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

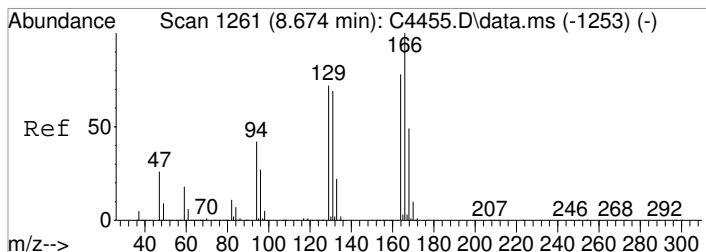
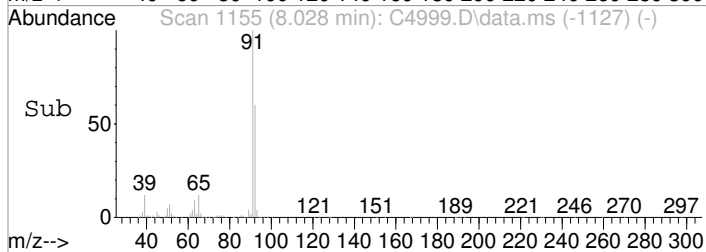
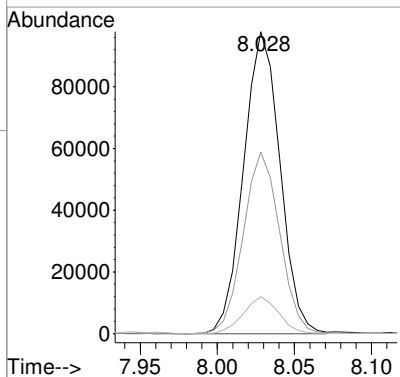
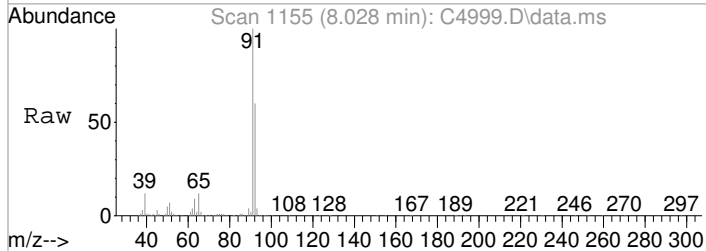
Tgt Ion	Resp	Lower	Upper
55	100		
83	121.9	106.2	146.2
98	57.0	39.7	79.7





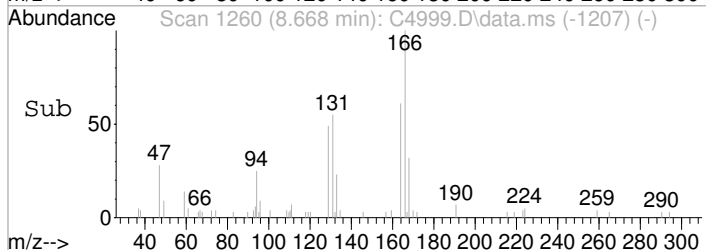
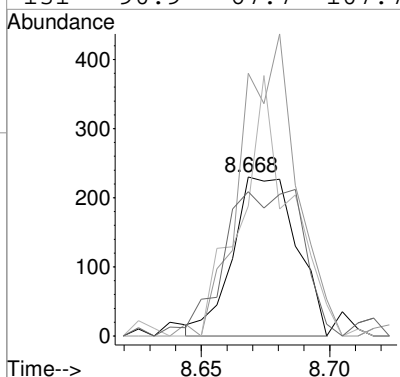
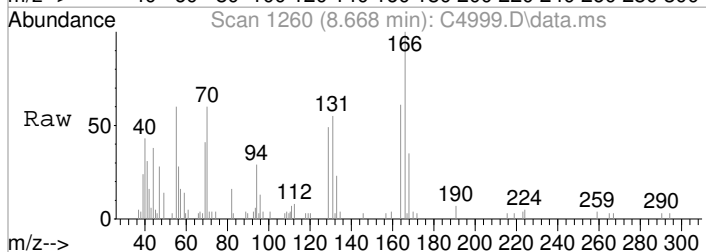
#65  
 Toluene  
 Concen: 19.49 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

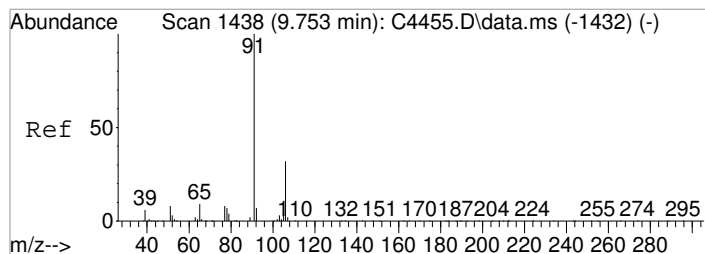
Tgt Ion	Resp	Lower	Upper
91	160464		
92	60.2	39.7	79.7
65	12.3	0.0	31.9



#71  
 Tetrachloroethene  
 Concen: 0.26 ug/L  
 RT: 8.668 min Scan# 1260  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

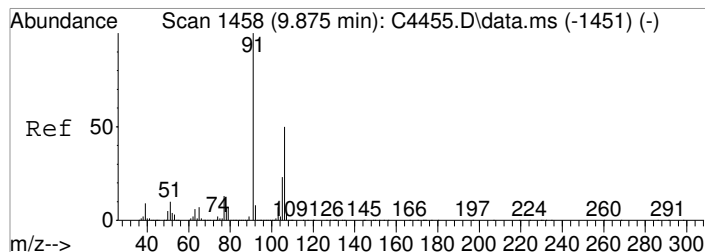
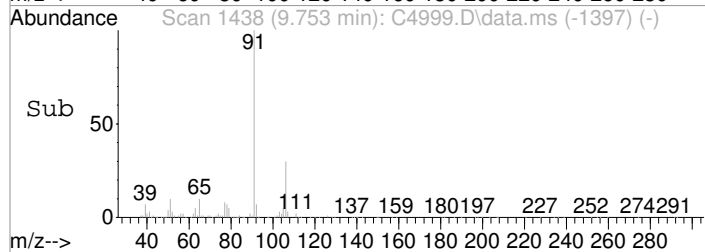
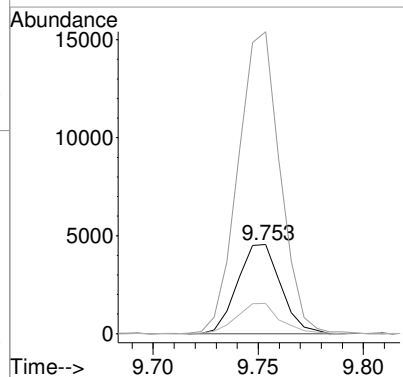
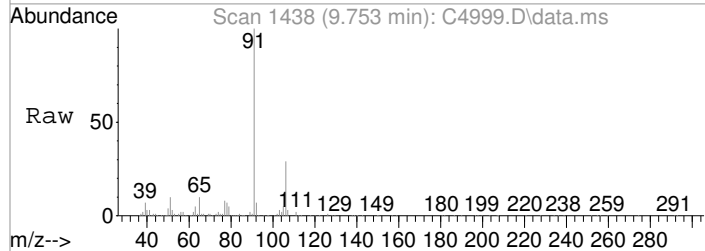
Tgt Ion	Resp	Lower	Upper
164	397		
166	165.2	108.0	148.0#
129	81.7	71.6	111.6
131	90.9	67.7	107.7





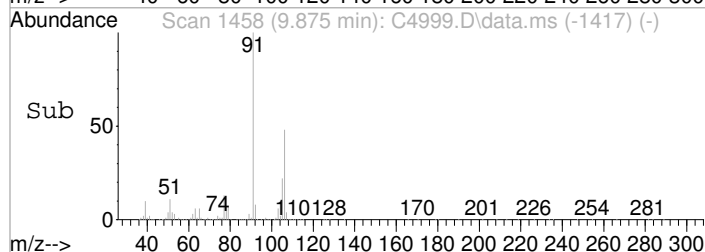
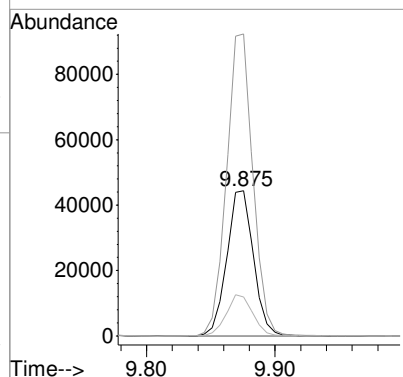
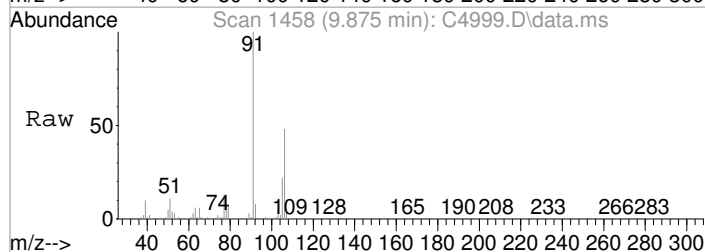
#79  
 Ethylbenzene  
 Concen: 2.41 ug/L  
 RT: 9.753 min Scan# 1438  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

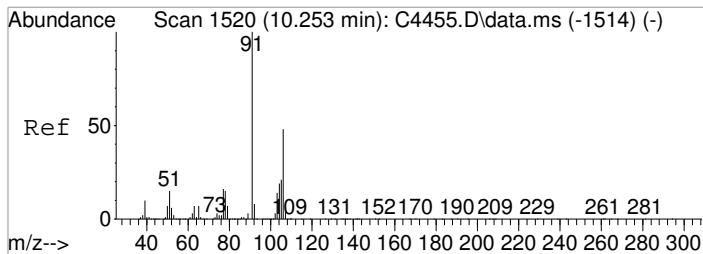
Tgt Ion	Resp	Lower	Upper
106	6488		
106	100		
91	339.0	295.6	335.6#
65	34.1	8.0	48.0



#80  
 (m+p)Xylene  
 Concen: 18.92 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

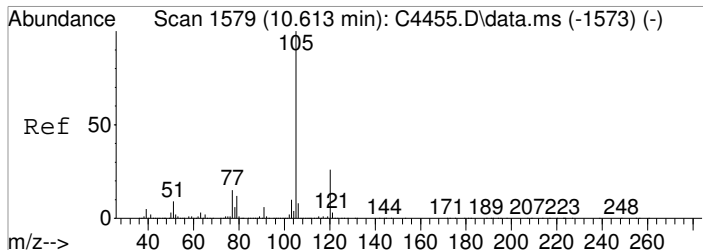
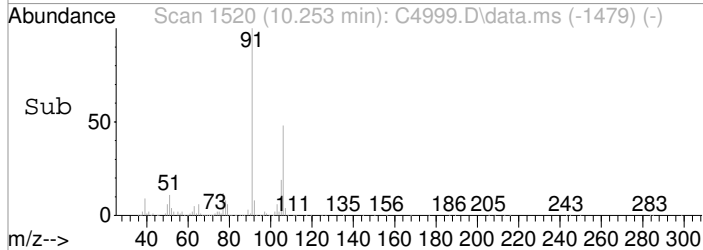
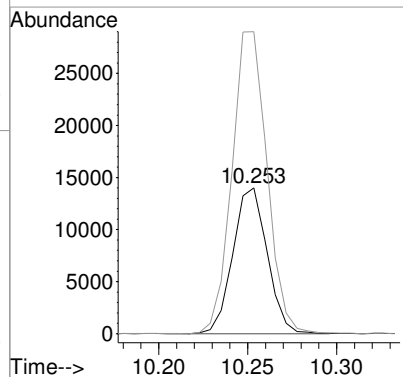
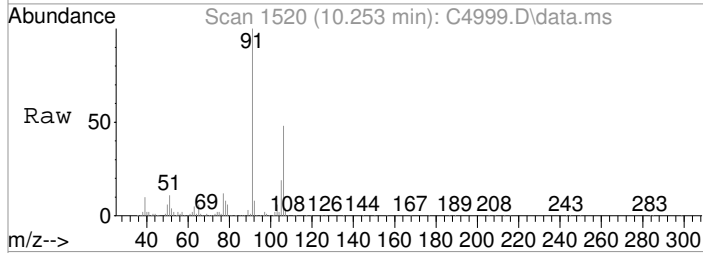
Tgt Ion	Resp	Lower	Upper
106	63902		
106	100		
91	208.1	180.9	220.9
77	26.7	5.7	45.7





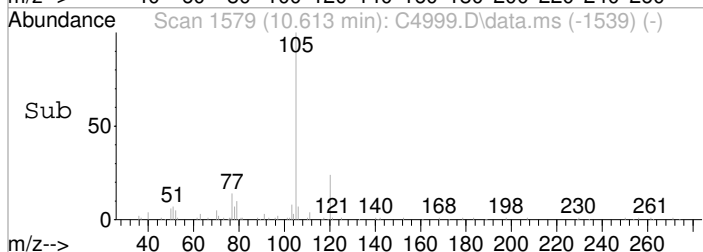
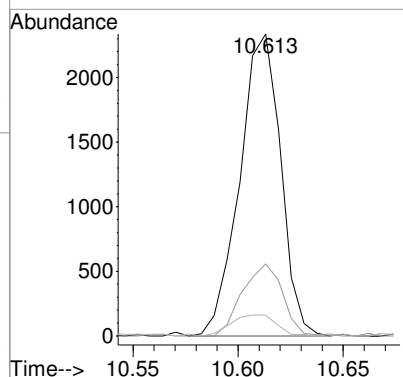
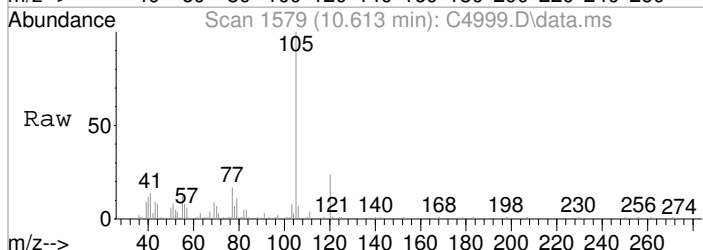
#81  
 o-Xylene  
 Concen: 5.63 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

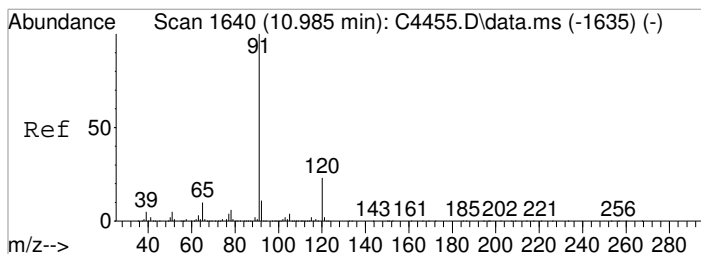
Tgt Ion	Resp	Lower	Upper
106	18810		
91	207.3	187.6	227.6



#84  
 Isopropylbenzene  
 Concen: 0.37 ug/L  
 RT: 10.613 min Scan# 1579  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

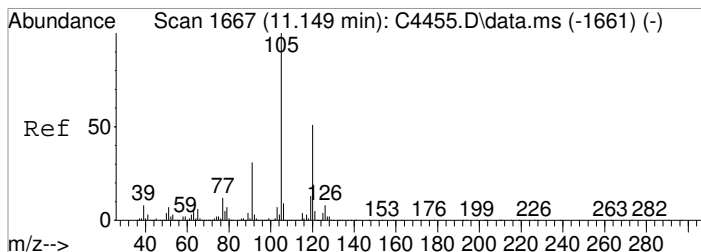
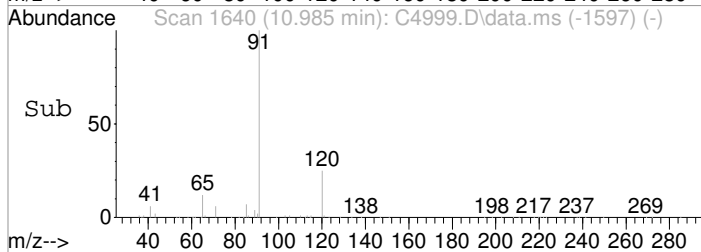
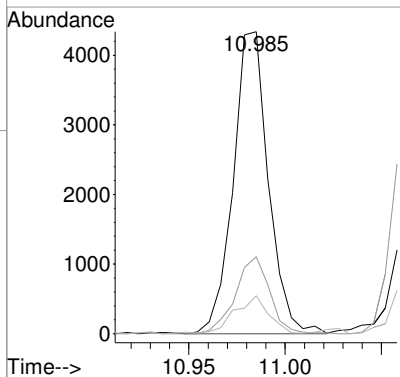
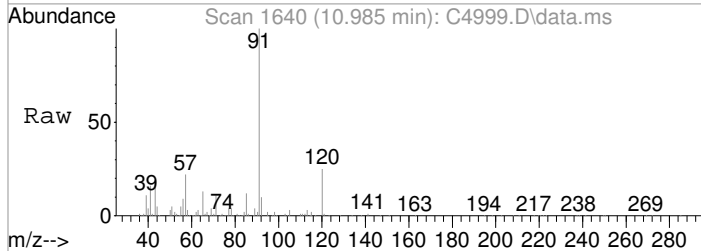
Tgt Ion	Resp	Lower	Upper
105	3159		
120	23.9	6.2	46.2
106	6.9	0.0	28.5





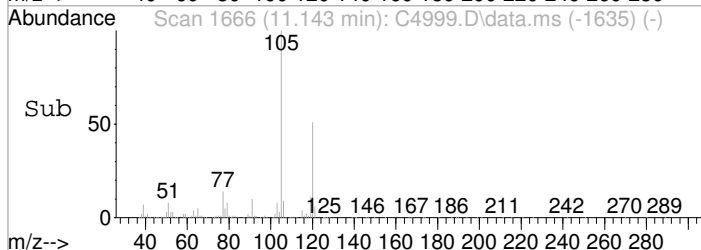
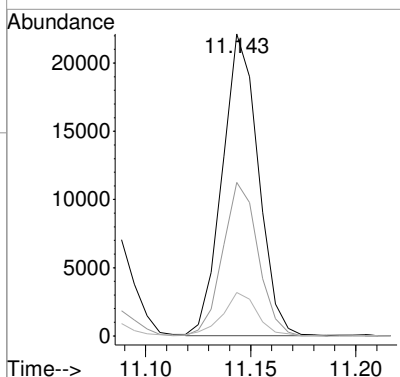
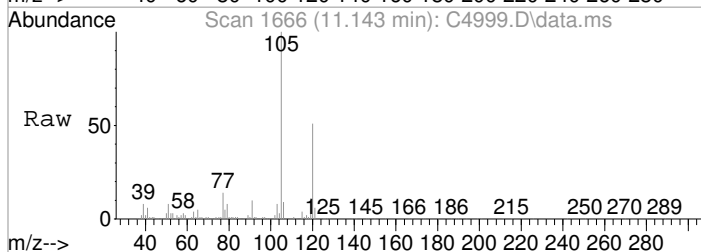
#91  
 n-Propylbenzene  
 Concen: 0.72 ug/L  
 RT: 10.985 min Scan# 1640  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

Tgt Ion	Resp	Lower	Upper
91	100		
120	25.5	3.2	43.2
65	12.6	0.0	30.2

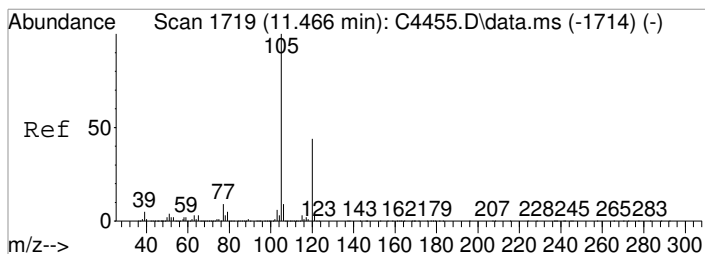


#94  
 1,3,5-Trimethylbenzene  
 Concen: 4.69 ug/L  
 RT: 11.143 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	50.8	30.5	70.5
77	14.4	0.0	32.4

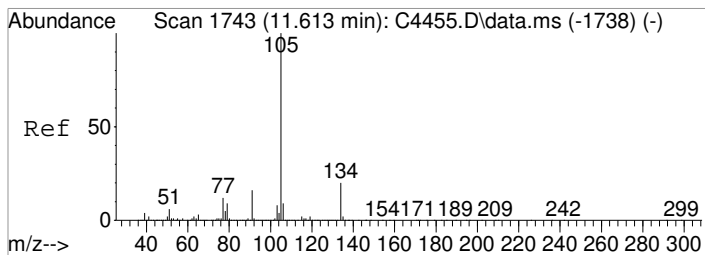
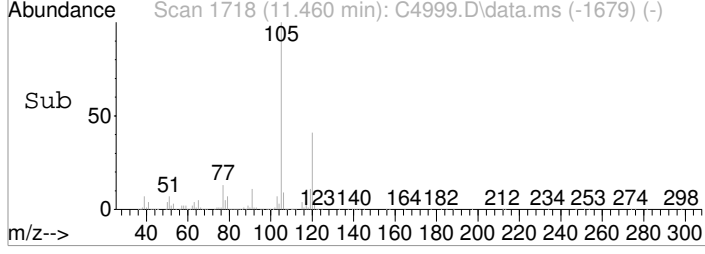
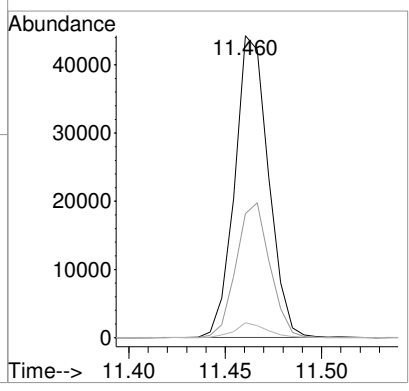
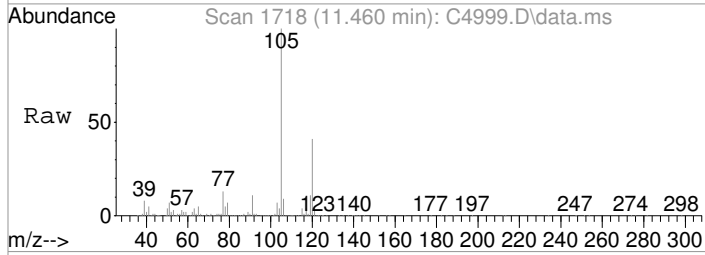






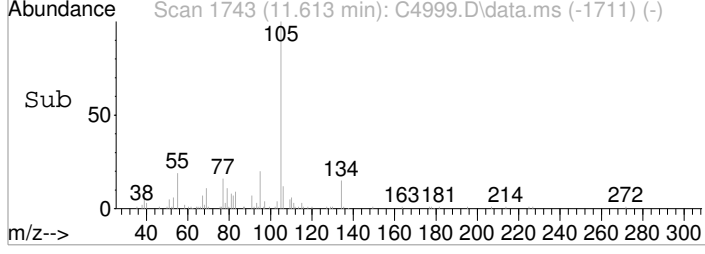
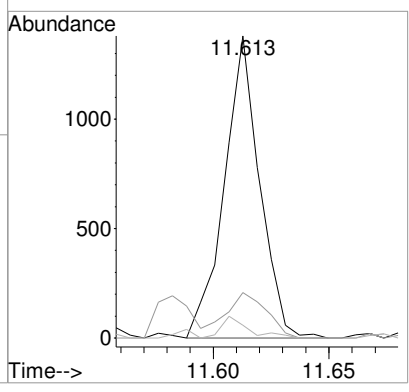
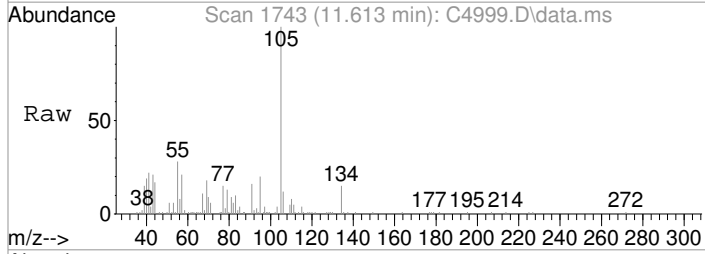
#96  
 1,2,4-Trimethylbenzene  
 Concen: 9.46 ug/L  
 RT: 11.460 min Scan# 1718  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

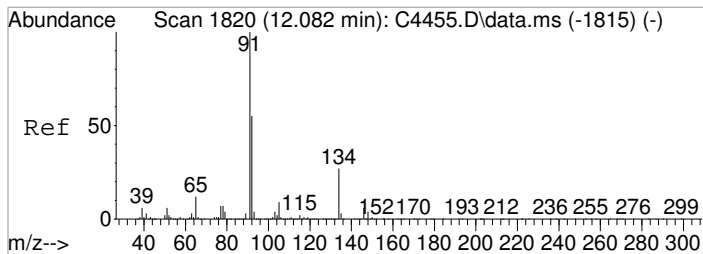
Tgt Ion	Resp	Lower	Upper
105	53721		
120	41.1	26.3	66.3
65	5.0	0.0	24.4



#97  
 sec-Butylbenzene  
 Concen: 0.20 ug/L  
 RT: 11.613 min Scan# 1743  
 Delta R.T. 0.000 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

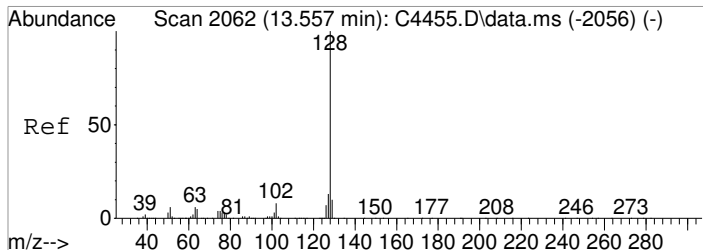
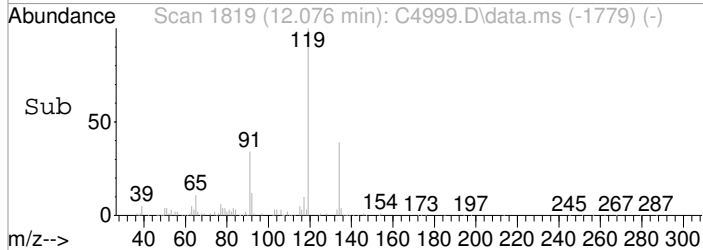
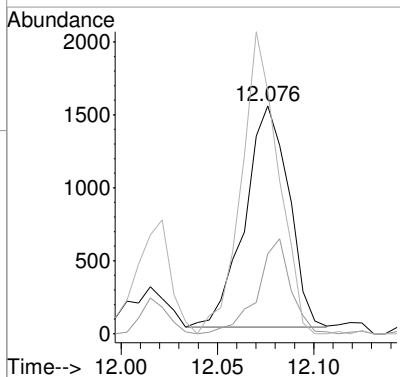
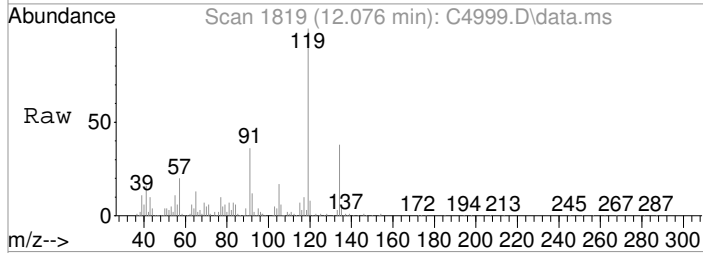
Tgt Ion	Resp	Lower	Upper
105	1463		
134	15.0	0.0	39.9
103	4.3	0.0	28.1





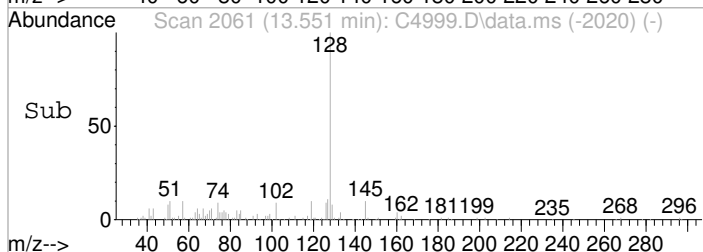
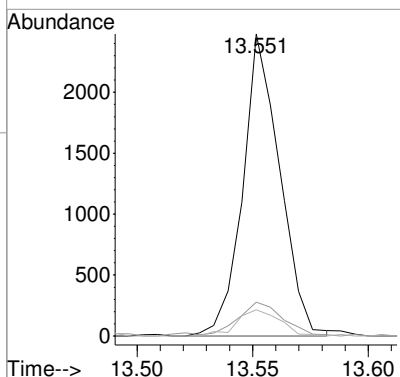
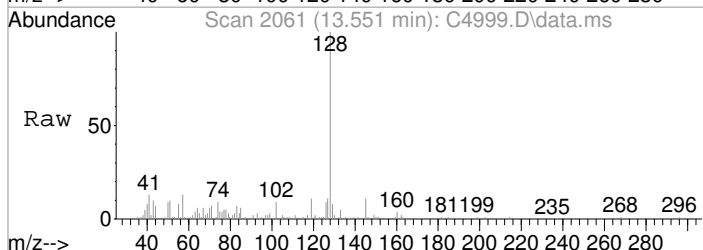
#101  
 n-Butylbenzene  
 Concen: 0.43 ug/L  
 RT: 12.076 min Scan# 1819  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	35.1	34.9	74.9
134	106.3	6.7	46.7#



#107  
 Naphthalen  
 Concen: 0.45 ug/L  
 RT: 13.551 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C4999.D  
 Acq: 16 Feb 2018 2:57 pm

Tgt Ion	Resp	Lower	Upper
128	100		
127	11.2	0.0	33.4
102	8.7	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C5000.D  
 Acq On : 16 Feb 2018 3:20 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-012|0.76 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 16 15:58:25 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	193343	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	294086	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	249014	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	111029	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	89734	49.00	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.00%		
47) SURR1,1,2-dichloroetha...	5.120	65	117937	53.76	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	107.52%		
64) SURR3,Toluene-d8	7.949	98	361366	51.60	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	103.20%		
69) SURR2,BFB	10.735	95	126809	44.88	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	89.76%		
Target Compounds						
8) Trichlorofluoromethane	1.645	101	613	0.23	ug/L #	76
15) Acetone	2.048	43	8655	9.88	ug/L	98
34) 2-Butanone	3.828	43	1353	1.14	ug/L	81
43) Cyclohexane	4.639	41	1909	0.96	ug/L	76
48) Benzene	5.212	78	4806	0.62	ug/L	92
51) n-Heptane	5.803	43	2771	1.24	ug/L	88
54) Methylcyclohexane	6.565	55	4206	1.50	ug/L	93
60) 2-Nitropropane	7.351	41	1170	1.87	ug/L #	53
65) Toluene	8.028	91	13502	1.60	ug/L	96
71) Tetrachloroethene	8.674	164	1664	1.01	ug/L	93
79) Ethylbenzene	9.747	106	600	0.21	ug/L #	65
80) (m+p)Xylene	9.875	106	4348	1.22	ug/L	95
81) o-Xylene	10.247	106	1282	0.36	ug/L	100
94) 1,3,5-Trimethylbenzene	11.143	105	1839	0.29	ug/L	92
96) 1,2,4-Trimethylbenzene	11.467	105	3584	0.56	ug/L	92

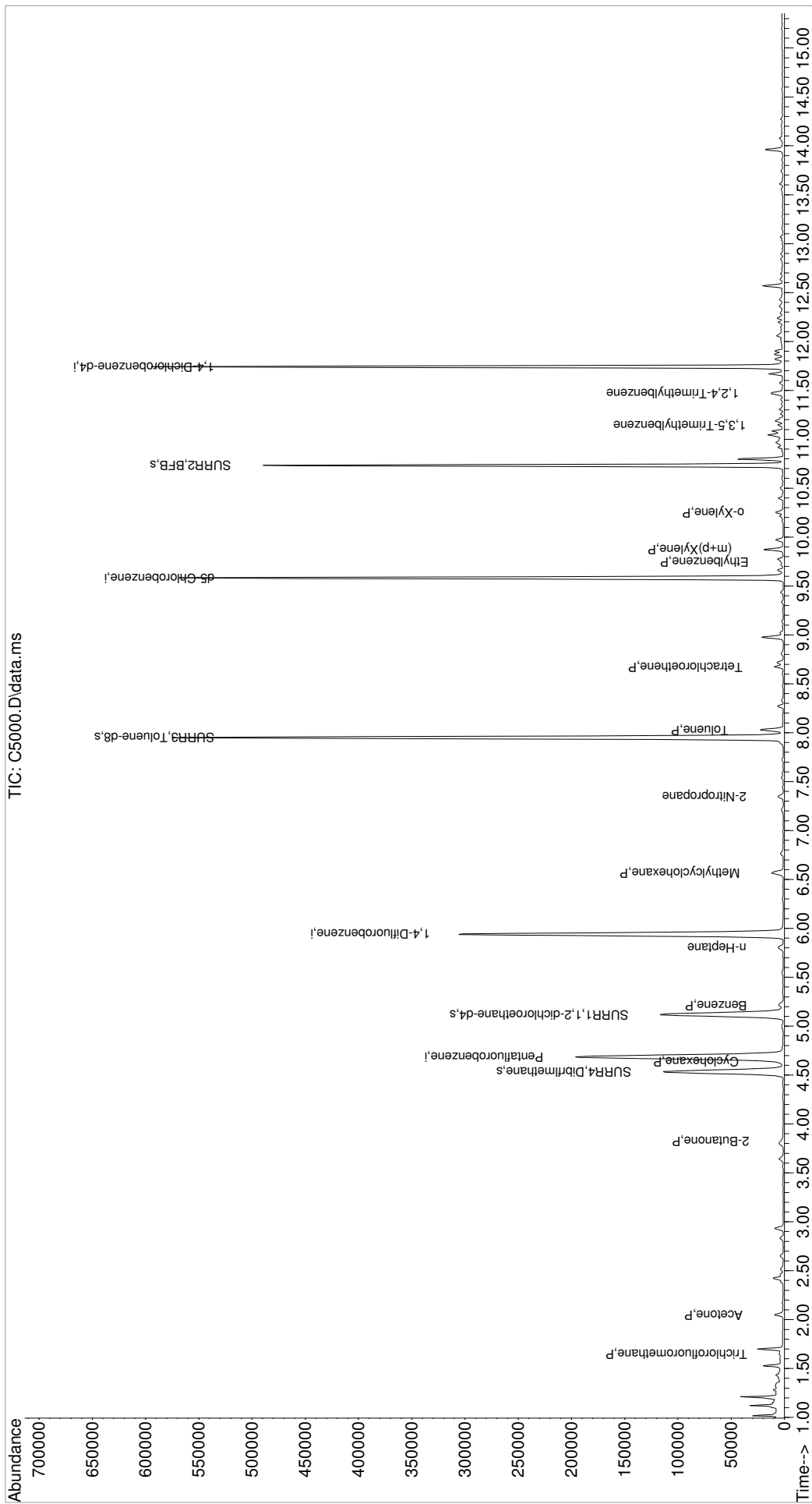
(#) = qualifier out of range (m) = manual integration (+) = signals summed

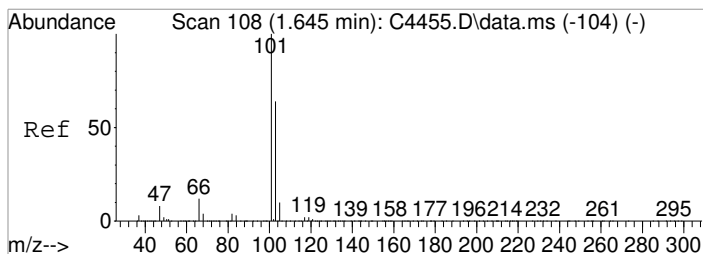
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C5000.D  
 Acq On : 16 Feb 2018 3:20 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-012|0.76  
 Misc : DAY 12666 T4  
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA14

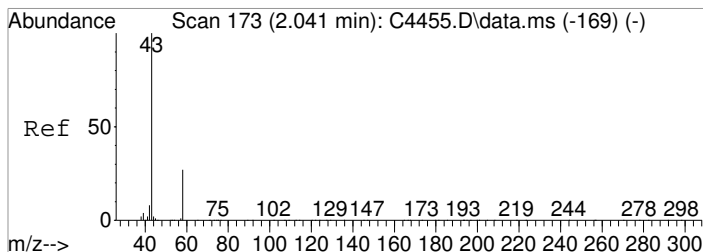
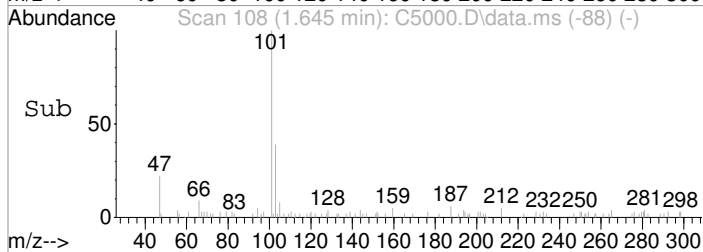
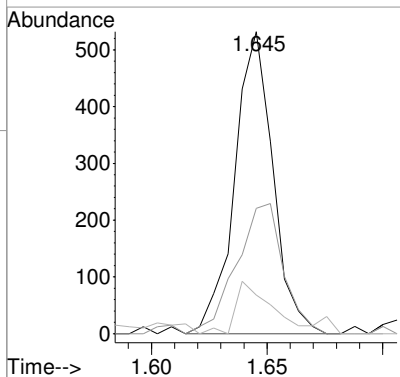
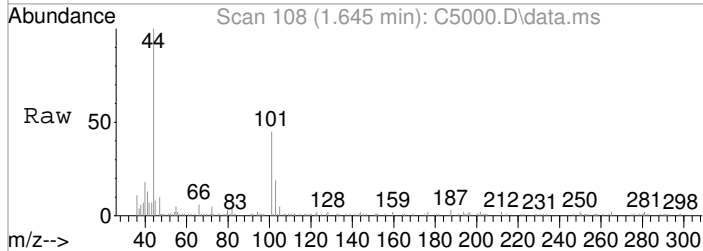
Quant Time: Feb 16 15:58:25 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





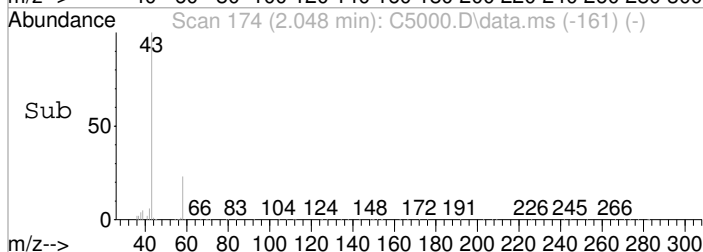
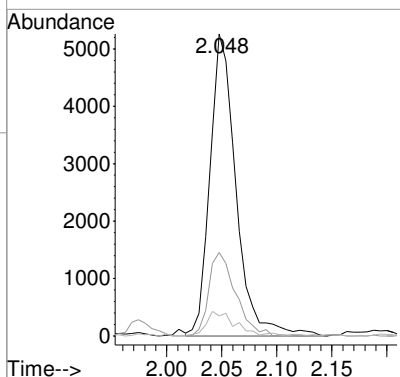
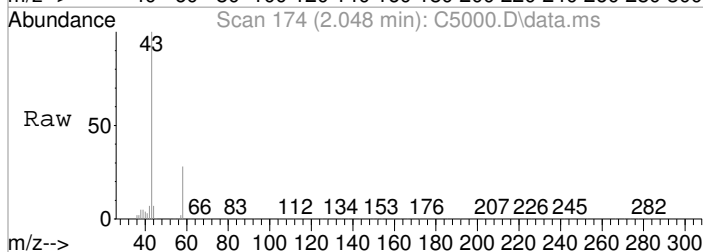
#8  
 Trichlorofluoromethane  
 Concen: 0.23 ug/L  
 RT: 1.645 min Scan# 108  
 Delta R.T. 0.000 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

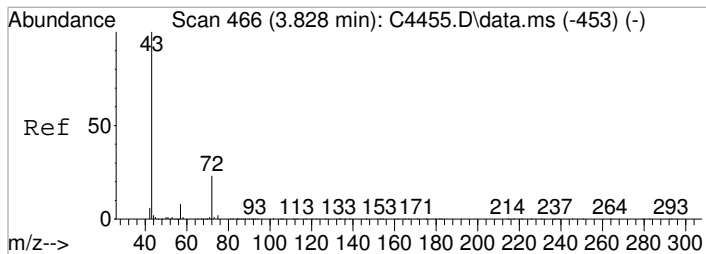
Tgt Ion	Resp	Lower	Upper
101	613		
103	41.5	44.0	84.0#
66	12.8	0.0	32.9



#15  
 Acetone  
 Concen: 9.88 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.007 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

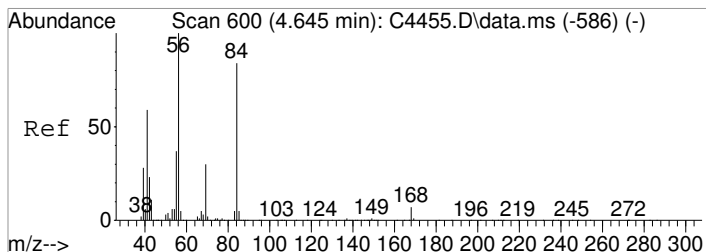
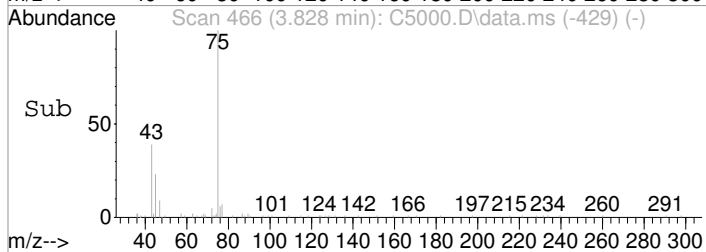
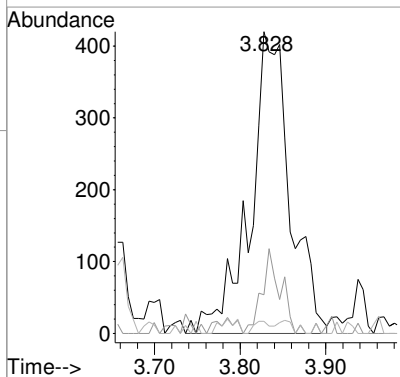
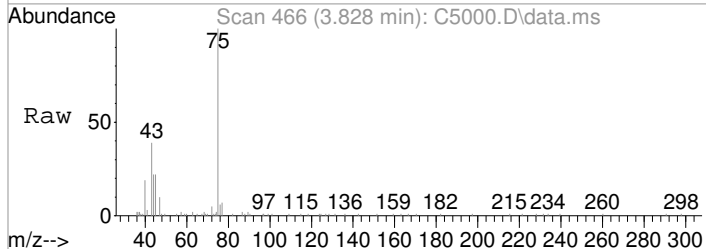
Tgt Ion	Resp	Lower	Upper
43	8655		
43	100		
58	27.6	7.1	47.1
42	6.7	0.0	28.6





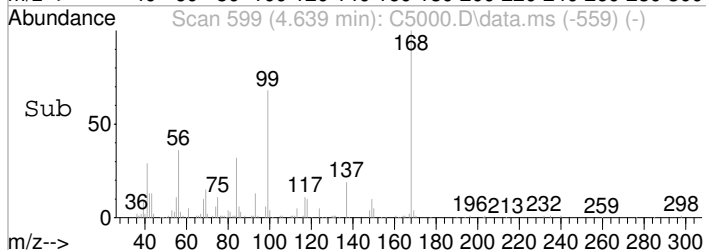
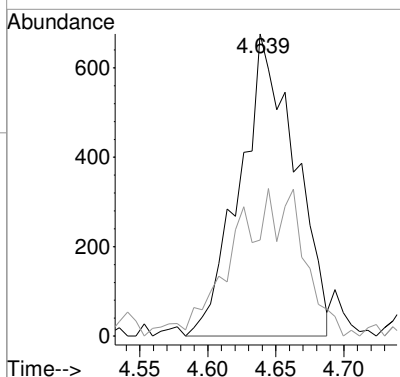
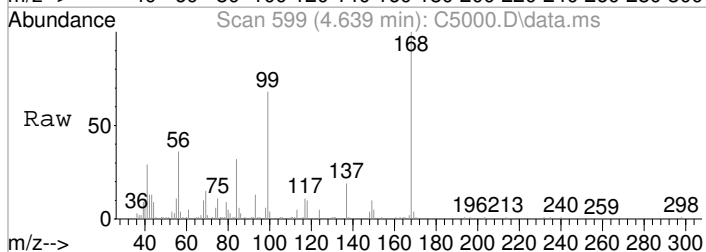
#34  
 2-Butanone  
 Concen: 1.14 ug/L  
 RT: 3.828 min Scan# 466  
 Delta R.T. 0.001 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

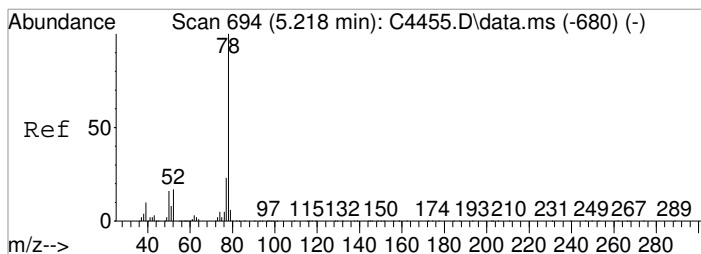
Tgt Ion	Resp	Lower	Upper
43	1353		
72	12.9	3.3	43.3
57	4.0	0.0	28.0



#43  
 Cyclohexane  
 Concen: 0.96 ug/L  
 RT: 4.639 min Scan# 599  
 Delta R.T. -0.006 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

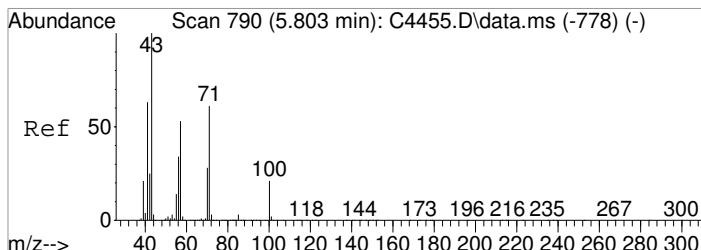
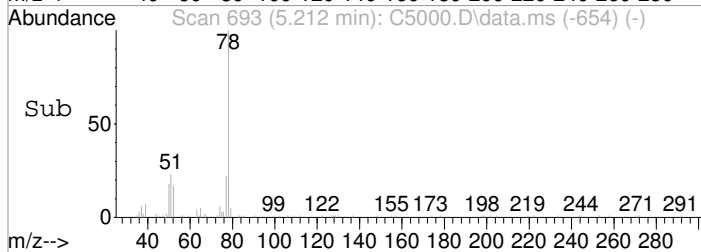
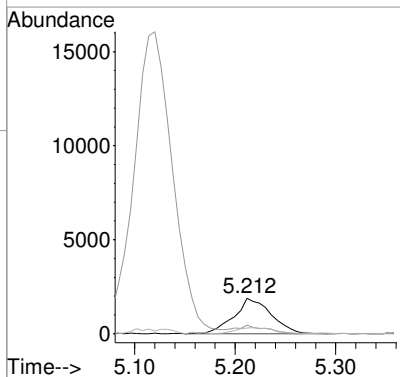
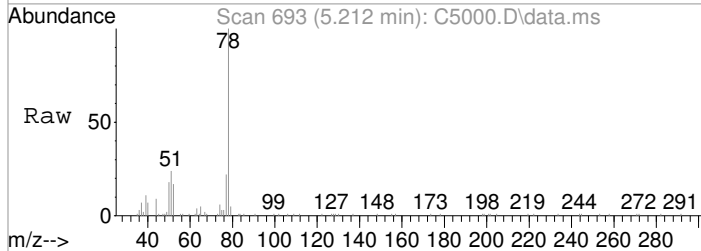
Tgt Ion	Resp	Lower	Upper
41	1909		
41	100		
39	31.8	28.0	68.0





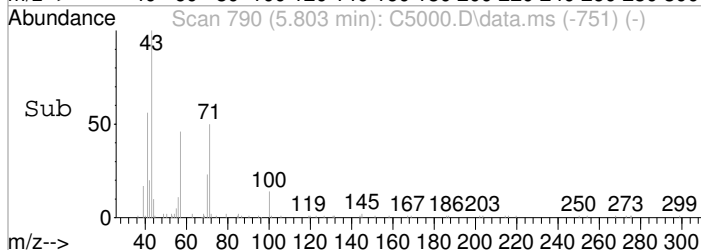
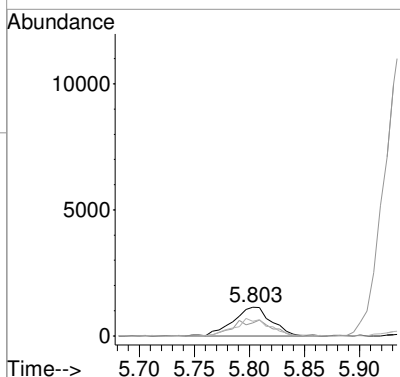
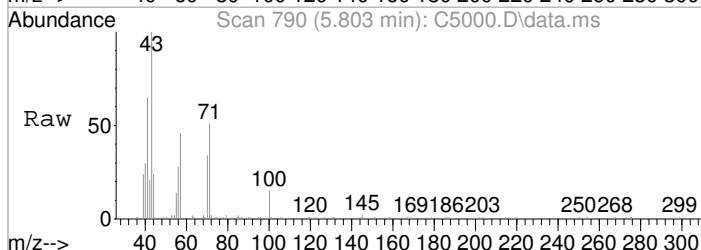
#48  
 Benzene  
 Concen: 0.62 ug/L  
 RT: 5.212 min Scan# 693  
 Delta R.T. -0.006 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

Tgt Ion	Resp	Lower	Upper
78	100		
51	24.2	0.0	37.4
52	16.5	0.0	36.9

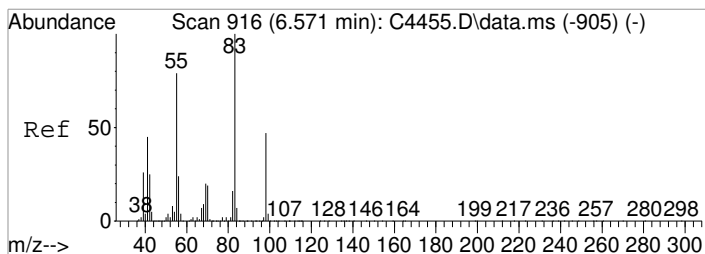


#51  
 n-Heptane  
 Concen: 1.24 ug/L  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

Tgt Ion	Resp	Lower	Upper
43	100		
57	45.6	33.3	73.3
71	50.6	40.9	80.9

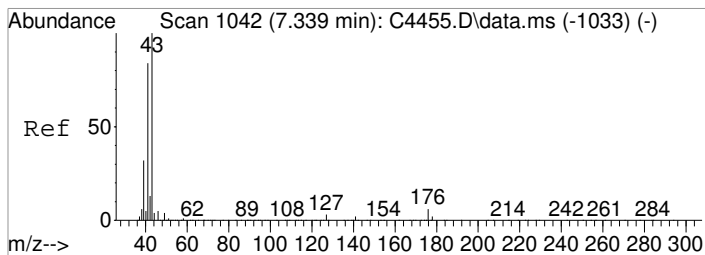
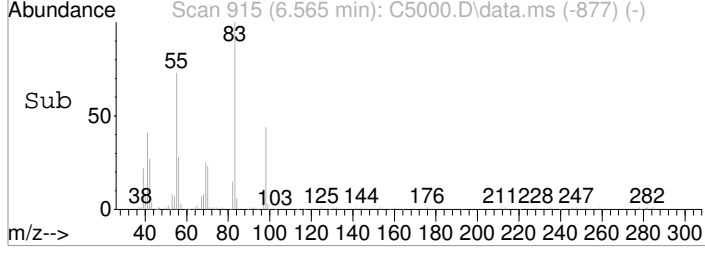
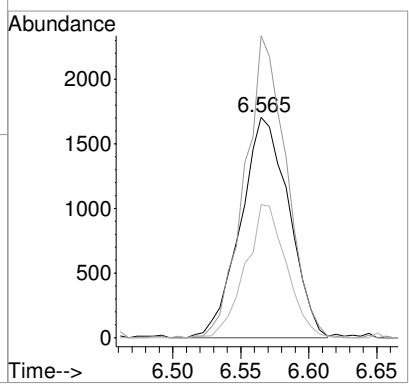
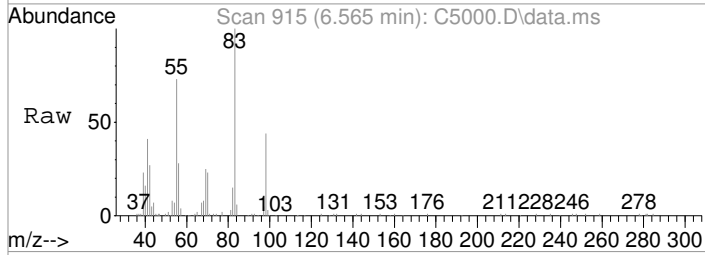






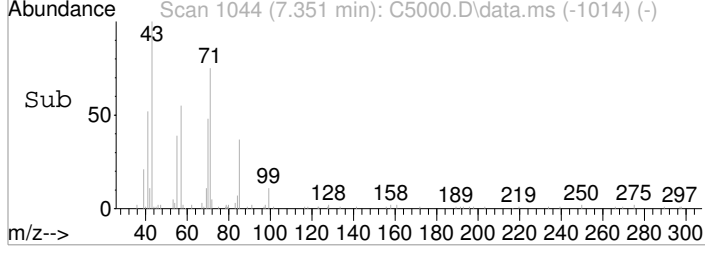
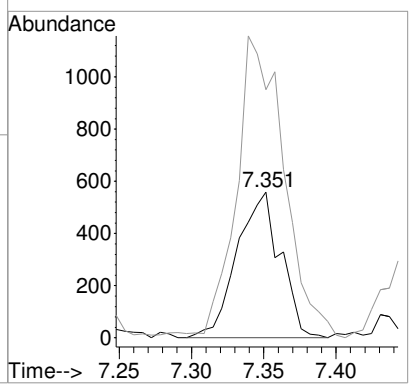
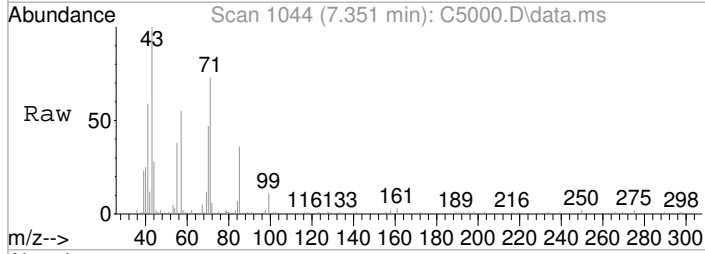
#54  
 Methylcyclohexane  
 Concen: 1.50 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

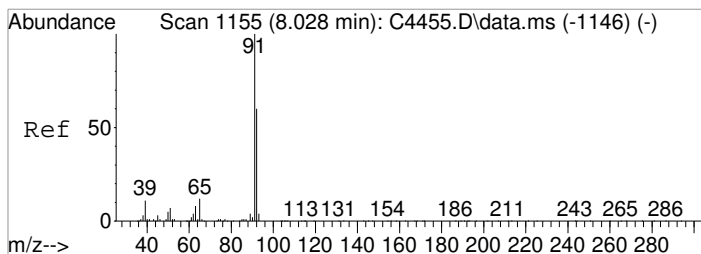
Tgt Ion	Resp	Lower	Upper
55	4206		
83	137.0	106.2	146.2
98	60.3	39.7	79.7



#60  
 2-Nitropropane  
 Concen: 1.87 ug/L  
 RT: 7.351 min Scan# 1044  
 Delta R.T. 0.012 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

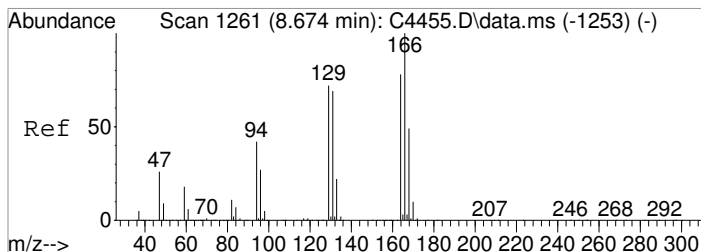
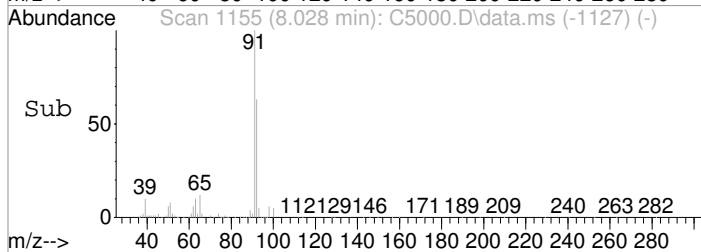
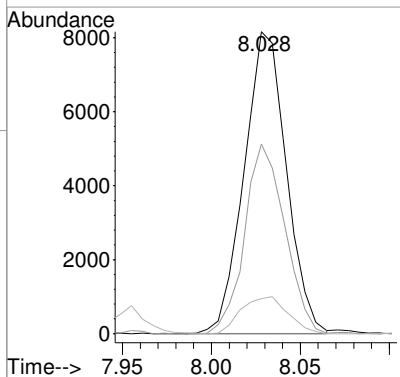
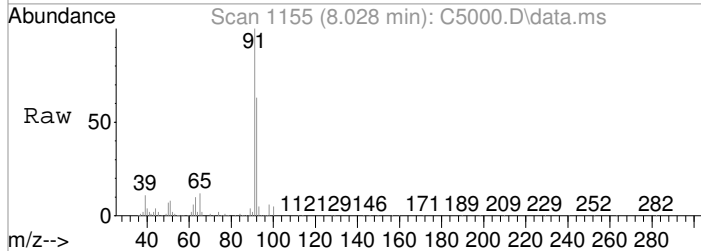
Tgt Ion	Resp	Lower	Upper
41	1170		
43	170.4	98.6	138.6#





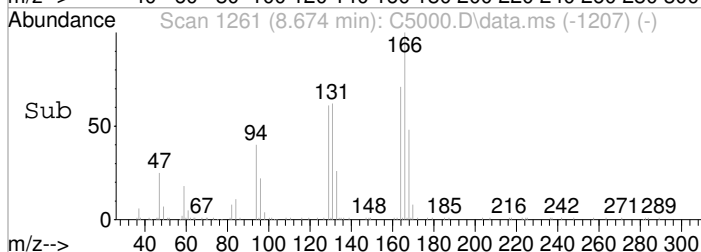
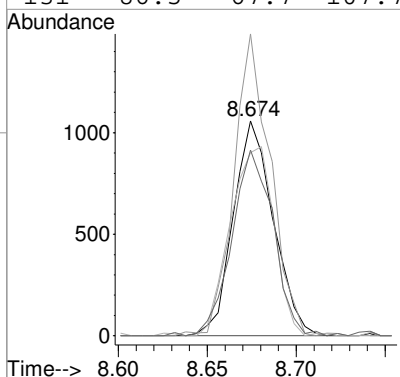
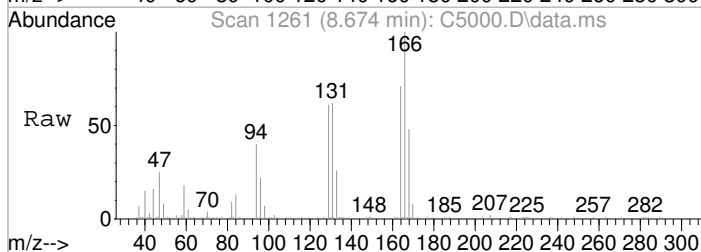
#65  
 Toluene  
 Concen: 1.60 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

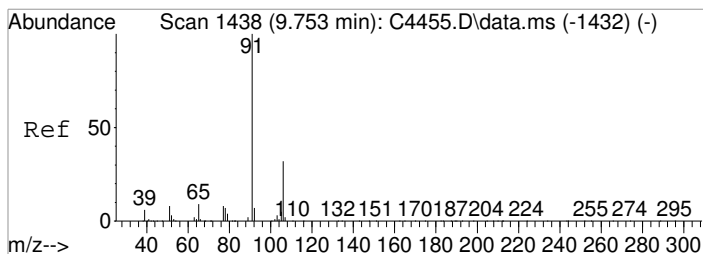
Tgt Ion	Resp	Lower	Upper
91	13502		
92	62.8	39.7	79.7
65	11.6	0.0	31.9



#71  
 Tetrachloroethene  
 Concen: 1.01 ug/L  
 RT: 8.674 min Scan# 1261  
 Delta R.T. 0.000 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

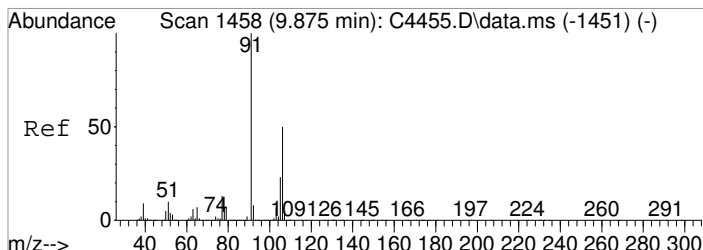
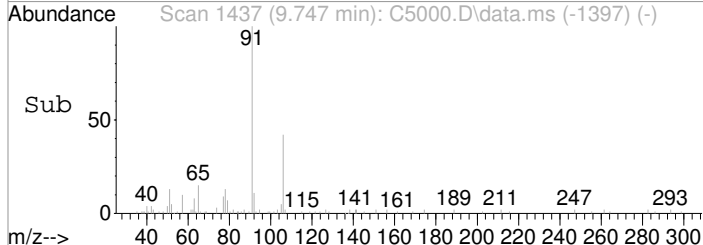
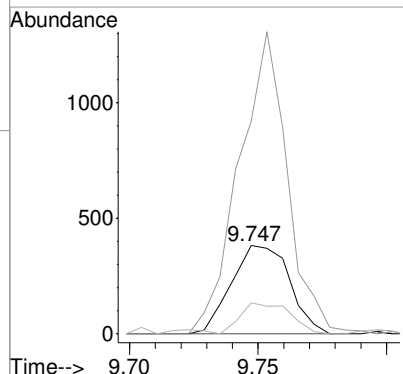
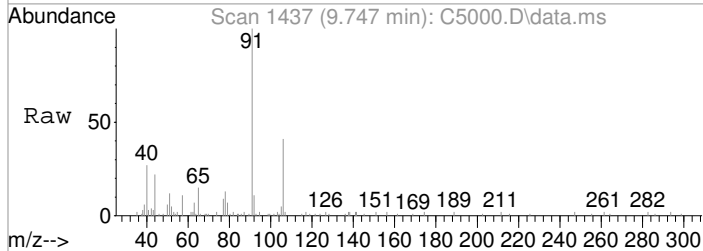
Tgt Ion	Resp	Lower	Upper
164	1664		
166	140.6	108.0	148.0
129	85.3	71.6	111.6
131	86.5	67.7	107.7





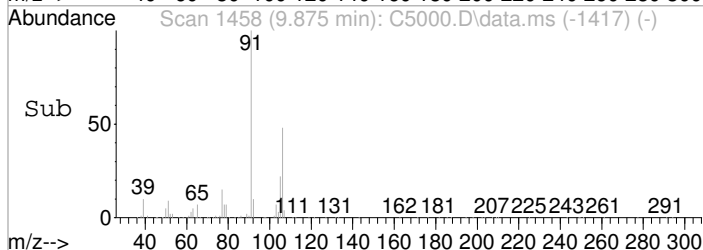
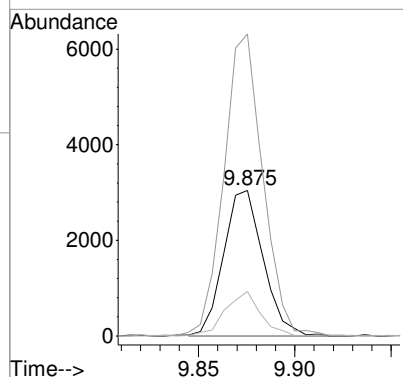
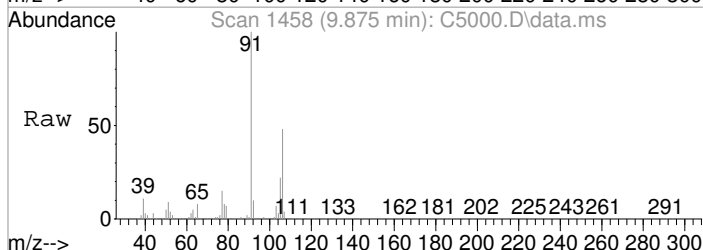
#79  
 Ethylbenzene  
 Concen: 0.21 ug/L  
 RT: 9.747 min Scan# 1437  
 Delta R.T. -0.006 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

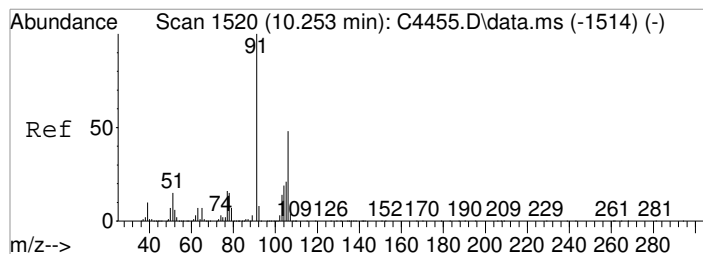
Tgt Ion	106	Resp:	600
Ion Ratio	Lower	Upper	
106	100		
91	241.4	295.6	335.6#
65	35.1	8.0	48.0



#80  
 (m+p)Xylene  
 Concen: 1.22 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

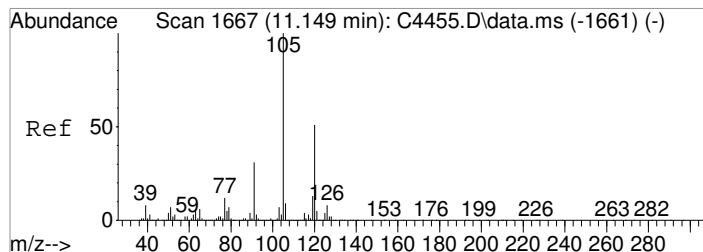
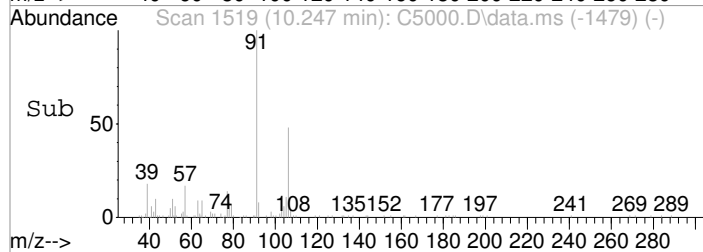
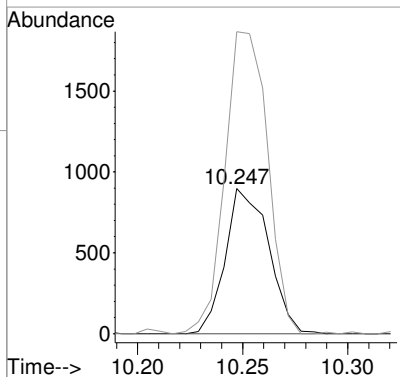
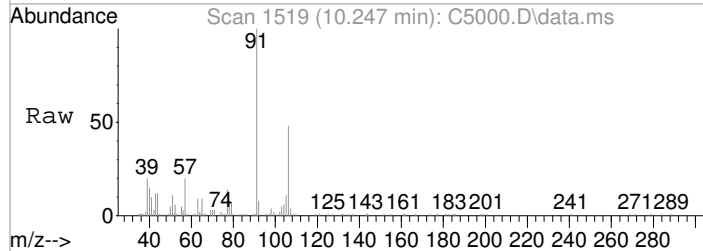
Tgt Ion	106	Resp:	4348
Ion Ratio	Lower	Upper	
106	100		
91	207.6	180.9	220.9
77	30.6	5.7	45.7





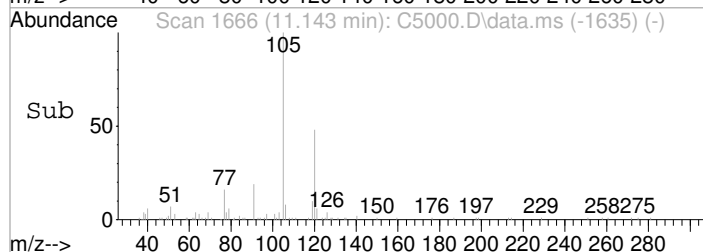
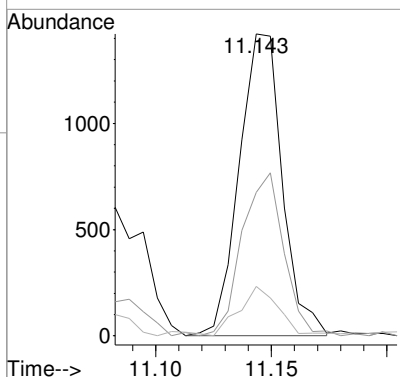
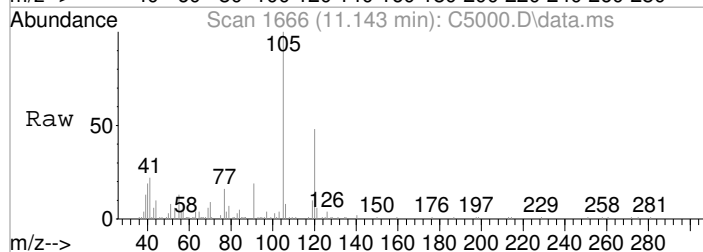
#81  
 o-Xylene  
 Concen: 0.36 ug/L  
 RT: 10.247 min Scan# 1519  
 Delta R.T. -0.006 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

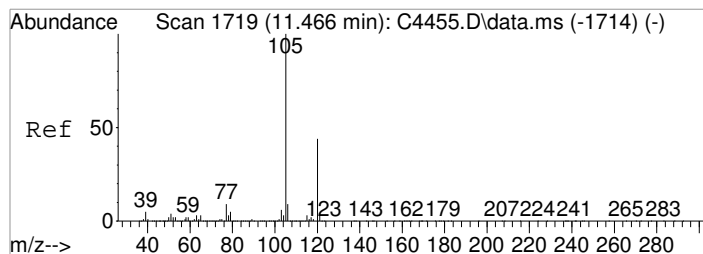
Tgt Ion	Resp	Lower	Upper
106	1282		
106	100		
91	208.1	187.6	227.6



#94  
 1,3,5-Trimethylbenzene  
 Concen: 0.29 ug/L  
 RT: 11.143 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

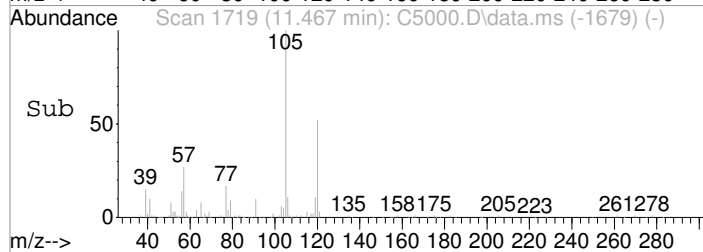
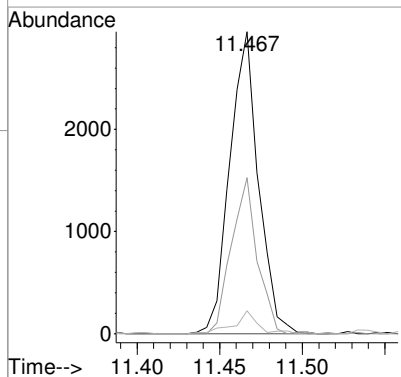
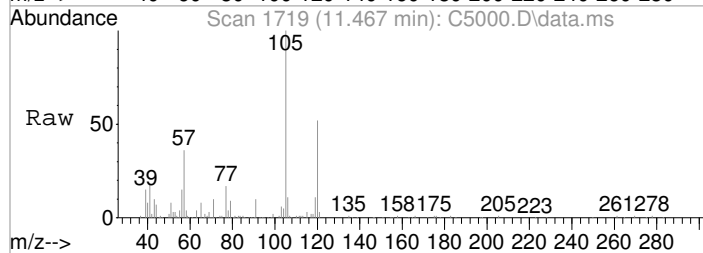
Tgt Ion	Resp	Lower	Upper
105	1839		
105	100		
120	47.6	30.5	70.5
77	20.6	0.0	32.4





#96  
 1,2,4-Trimethylbenzene  
 Concen: 0.56 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5000.D  
 Acq: 16 Feb 2018 3:20 pm

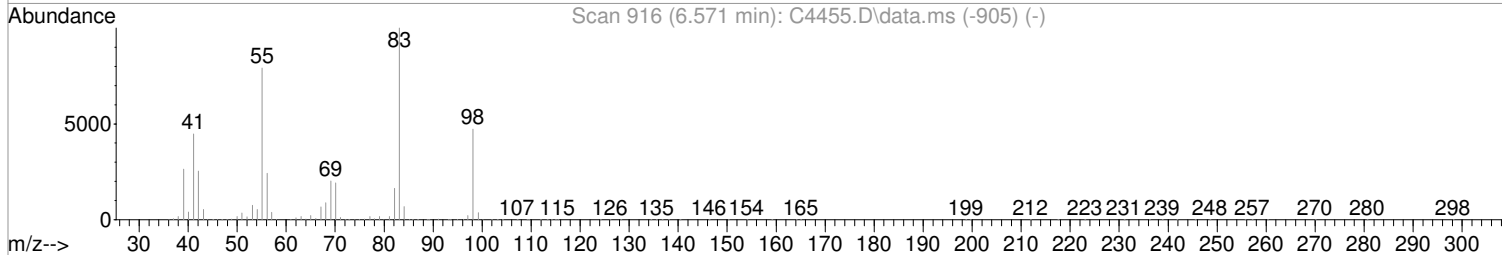
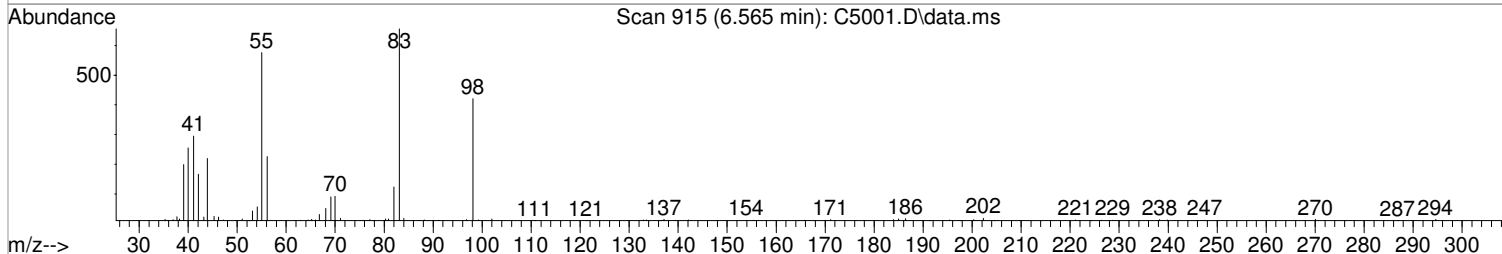
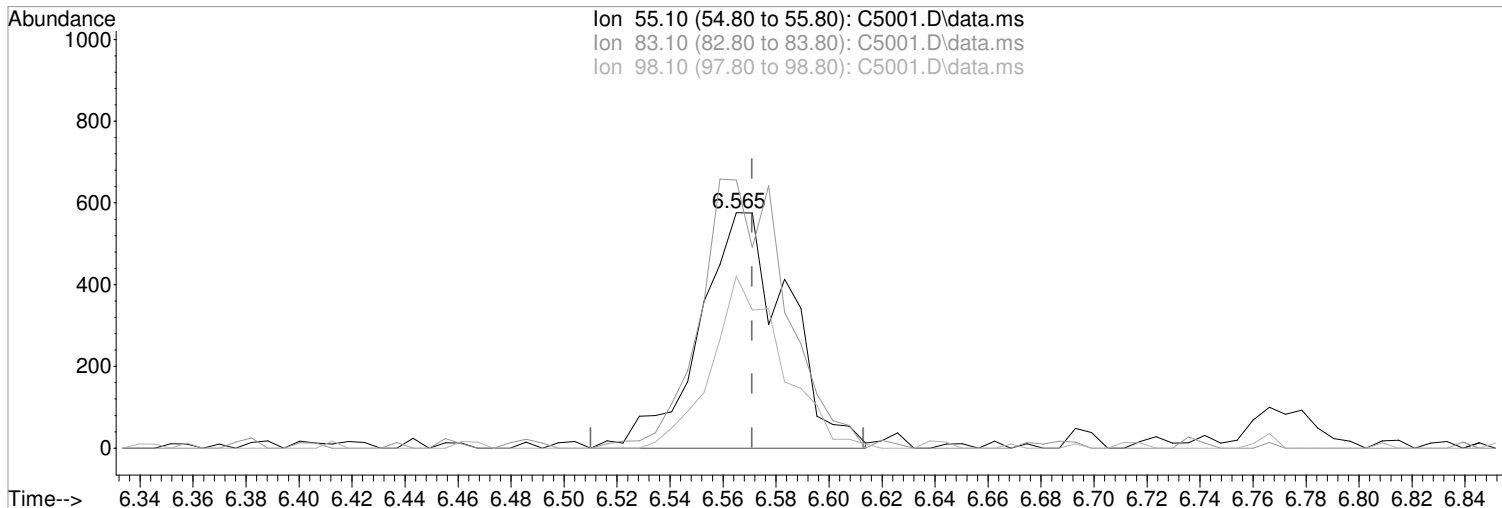
Tgt Ion	Resp	Lower	Upper
105	3584		
120	51.7	26.3	66.3
65	7.6	0.0	24.4



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C5001.D  
Acq On : 16 Feb 2018 3:43 pm  
Operator : F. NAEGLER  
Sample : R1801334-013|0.70  
Misc : DAY 12666 T4  
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 16:05:21 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C5001.D\data.ms

(54) Methylcyclohexane (P)  
6.565min (-0.006) 0.47 ug/L m  
response 1338

Manual Integration:

After

Poor integration.

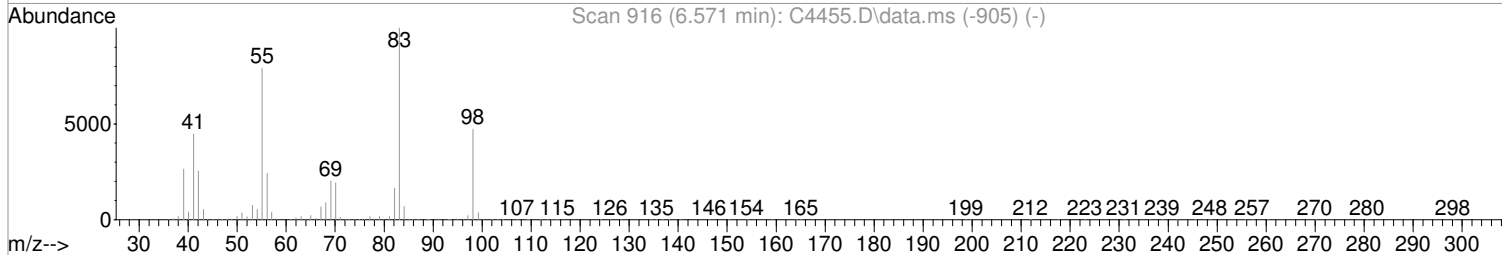
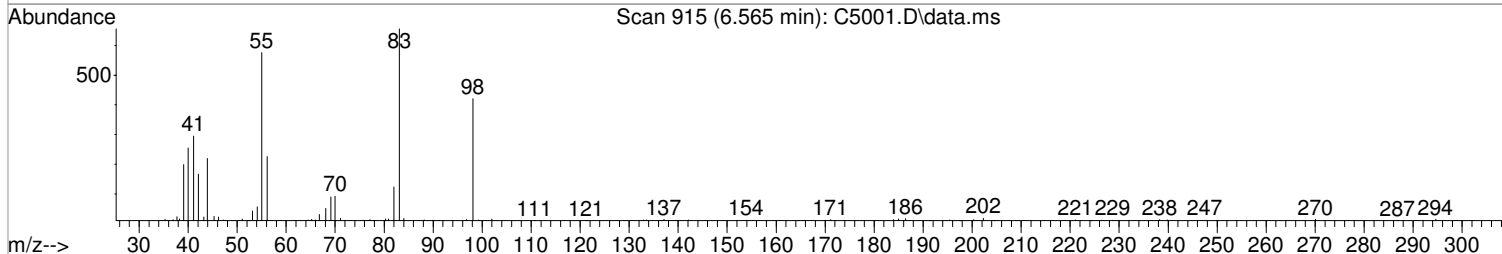
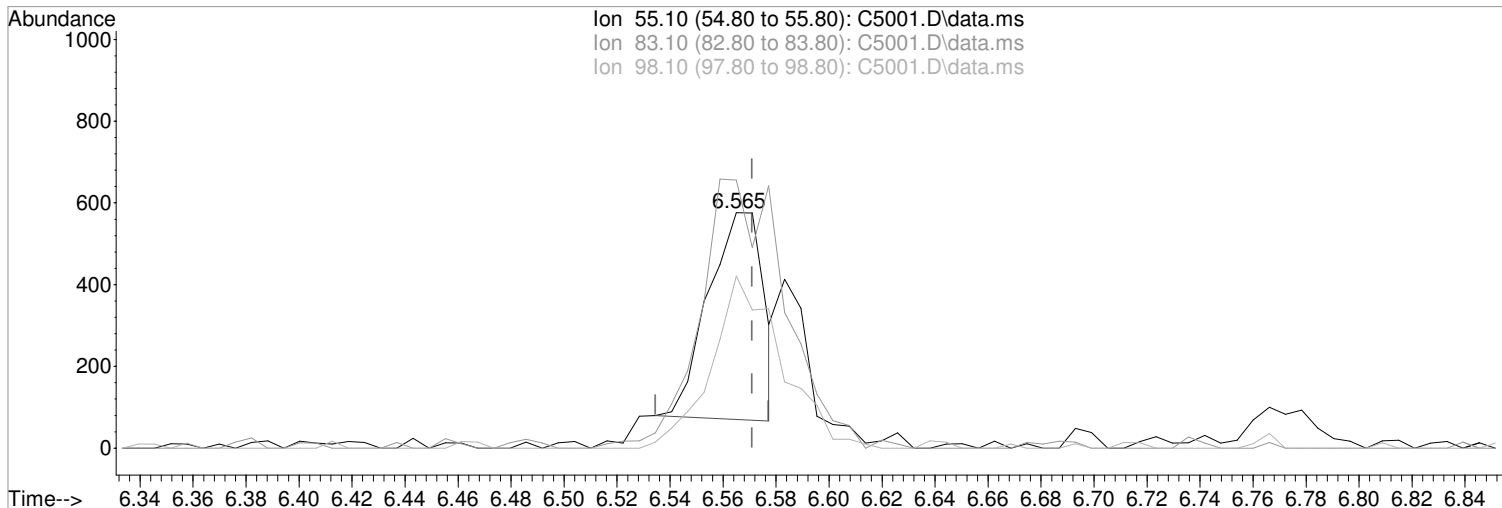
02/16/18

Ion	Exp%	Act%
55.10	100	100
83.10	126.20	113.89
98.10	59.70	73.09
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C5001.D  
Acq On : 16 Feb 2018 3:43 pm  
Operator : F. NAEGLER  
Sample : R1801334-013|0.70  
Misc : DAY 12666 T4  
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 16:05:21 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(54) Methylcyclohexane (P)

6.565min (-0.006) 0.26 ug/L

response 732

Ion	Exp%	Act%
55.10	100	100
83.10	126.20	113.89
98.10	59.70	73.09
0.00	0.00	0.00

Manual Integration:

Before

02/16/18



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C5001.D  
 Acq On : 16 Feb 2018 3:43 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-013|0.70 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 16 16:07:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	195622	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	296418	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	262797	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	132856	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	89156	48.30	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	96.60%		
47) SURR1,1,2-dichloroetha...	5.114	65	116094	52.51	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	105.02%		
64) SURR3,Toluene-d8	7.949	98	357033	50.58	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.16%		
69) SURR2,BFB	10.729	95	135610	47.62	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	95.24%		
Target Compounds						
15) Acetone	2.054	43	1625	1.83	ug/L	90
43) Cyclohexane	4.645	41	868	0.43	ug/L	81
51) n-Heptane	5.803	43	1510	0.67	ug/L	95
54) Methylcyclohexane	6.565	55	1338m	0.47	ug/L	
65) Toluene	8.028	91	2759	0.32	ug/L	88
80) (m+p)Xylene	9.875	106	1164	0.31	ug/L	87

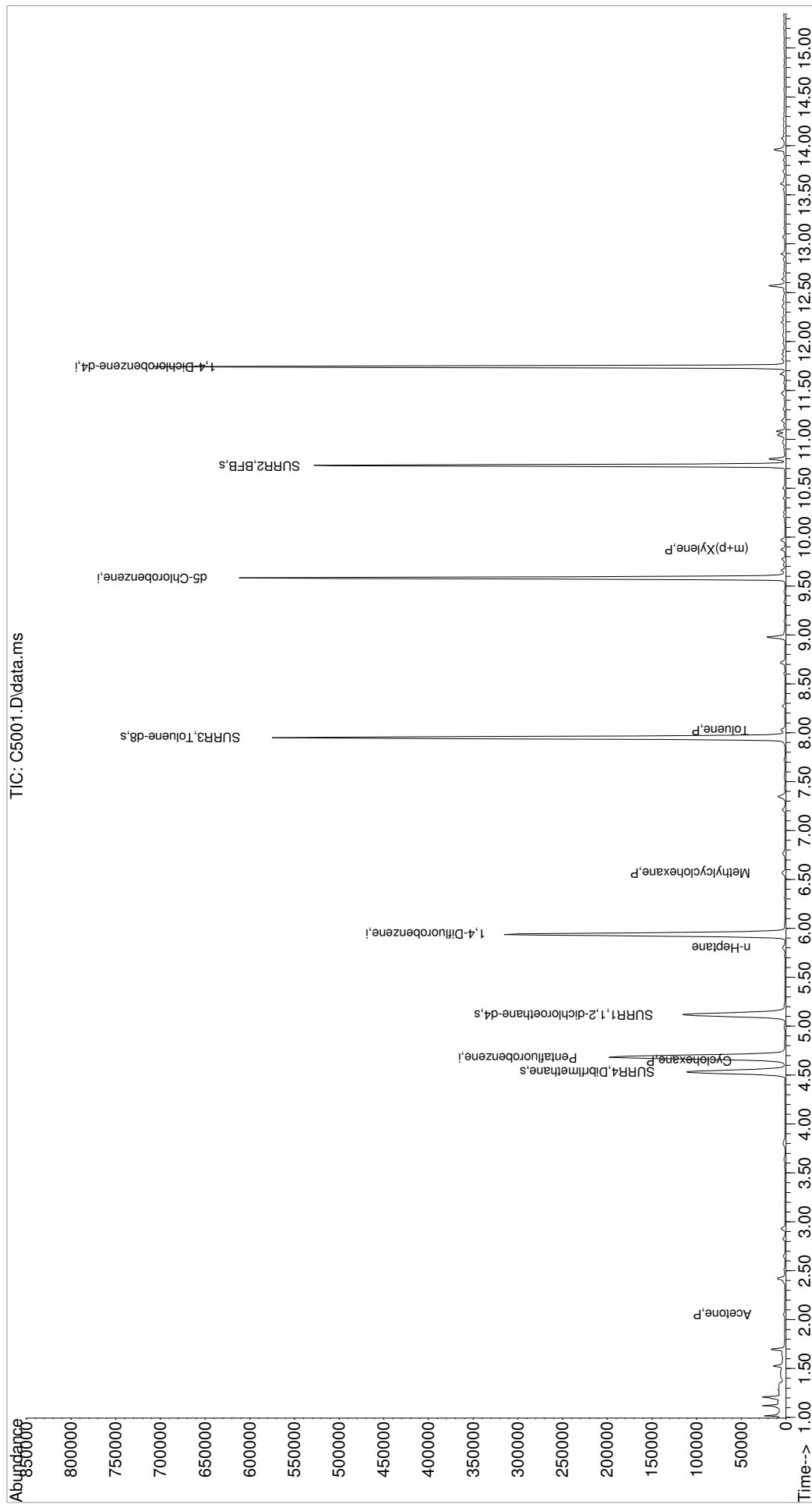
(#) = qualifier out of range (m) = manual integration (+) = signals summed

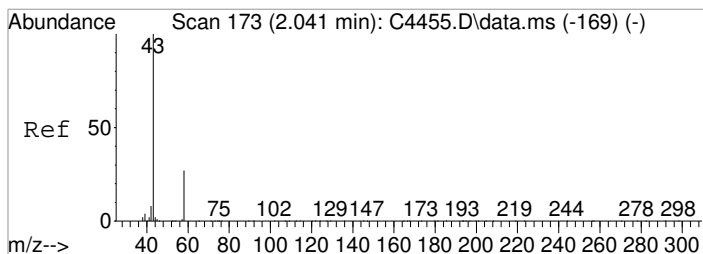
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C5001.D  
Acq On : 16 Feb 2018 3:43 pm  
Operator : F. NAEGLER  
Sample : R1801334-013|0.70  
Misc : DAY 12666 T4  
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

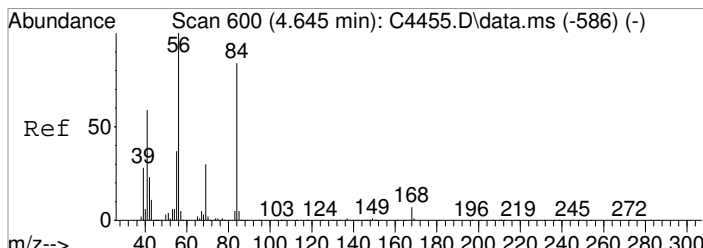
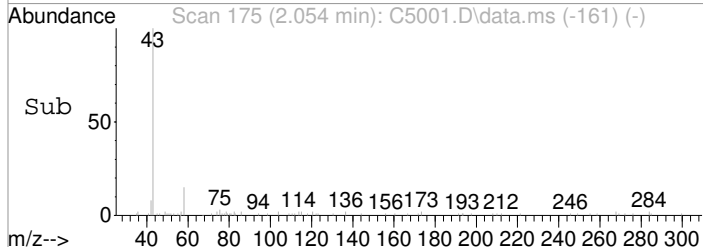
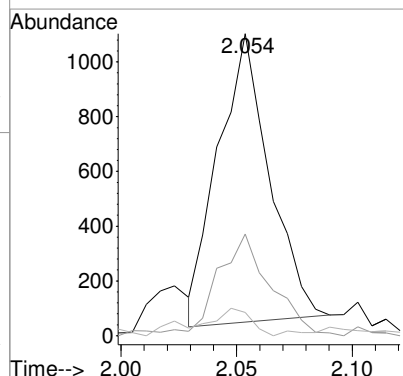
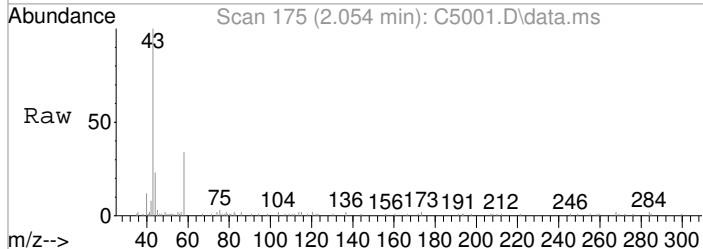
Quant Time: Feb 16 16:07:27 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration





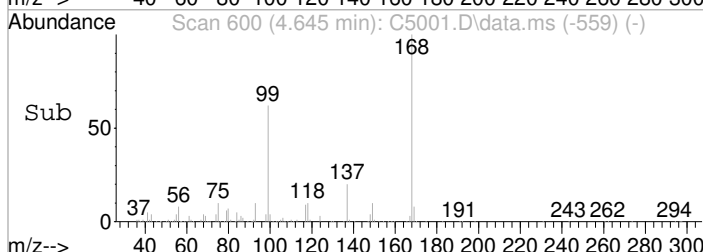
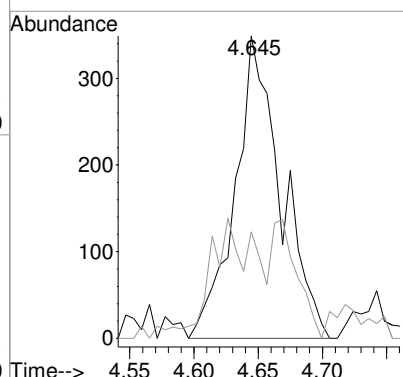
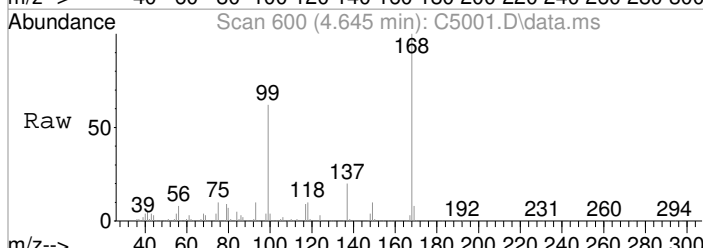
#15  
 Acetone  
 Concen: 1.83 ug/L  
 RT: 2.054 min Scan# 175  
 Delta R.T. 0.013 min  
 Lab File: C5001.D  
 Acq: 16 Feb 2018 3:43 pm

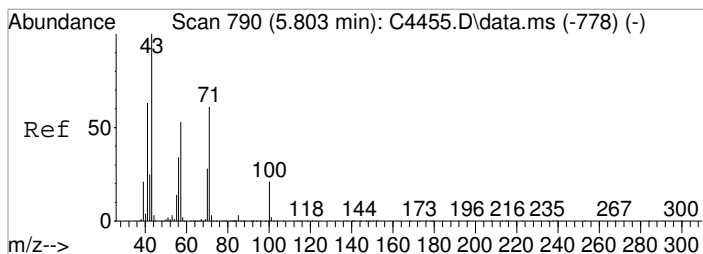
Tgt Ion	Resp	Lower	Upper
43	100		
58	33.6	7.1	47.1
42	7.7	0.0	28.6



#43  
 Cyclohexane  
 Concen: 0.43 ug/L  
 RT: 4.645 min Scan# 600  
 Delta R.T. 0.000 min  
 Lab File: C5001.D  
 Acq: 16 Feb 2018 3:43 pm

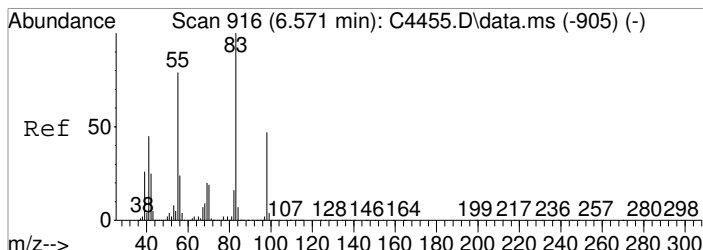
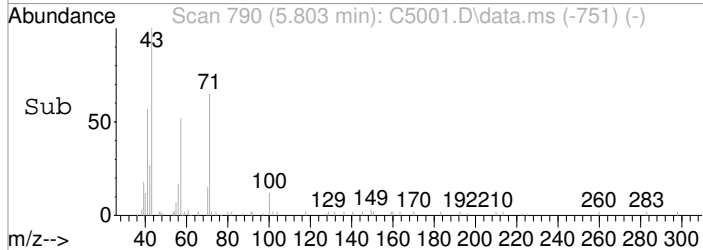
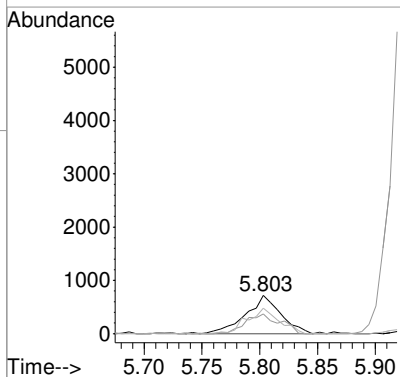
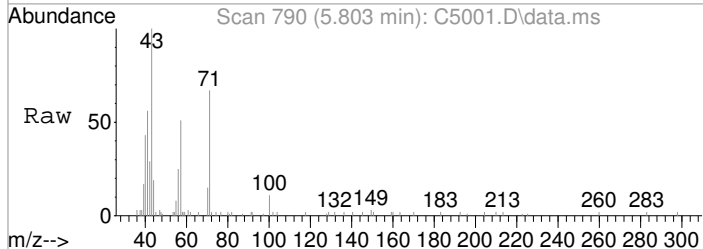
Tgt Ion	Resp	Lower	Upper
41	100		
39	35.2	28.0	68.0





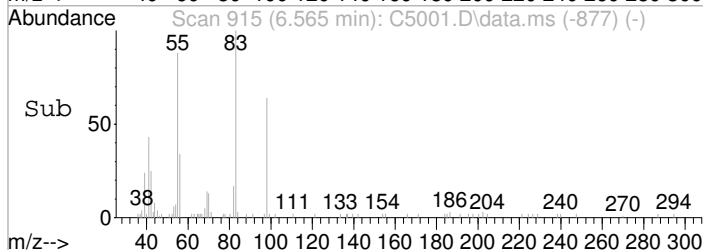
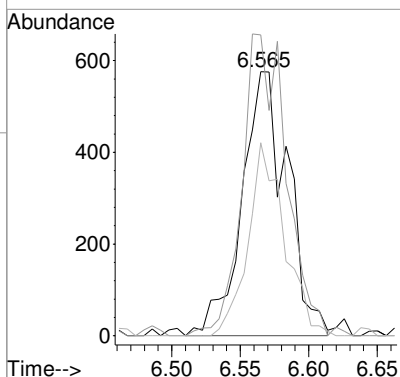
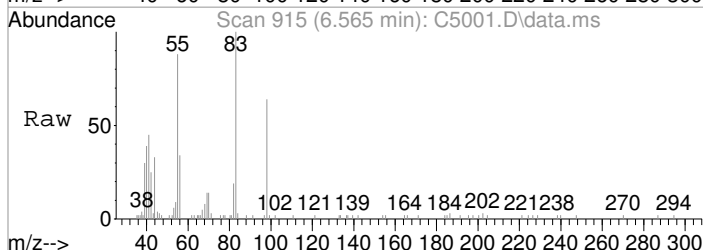
#51  
 n-Heptane  
 Concen: 0.67 ug/L  
 RT: 5.803 min Scan# 790  
 Delta R.T. 0.001 min  
 Lab File: C5001.D  
 Acq: 16 Feb 2018 3:43 pm

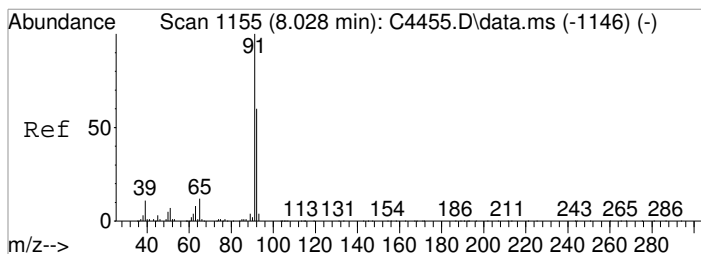
Tgt Ion	Resp	Lower	Upper
43	1510		
57	51.3	33.3	73.3
71	66.5	40.9	80.9



#54  
 Methylcyclohexane  
 Concen: 0.47 ug/L m  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C5001.D  
 Acq: 16 Feb 2018 3:43 pm

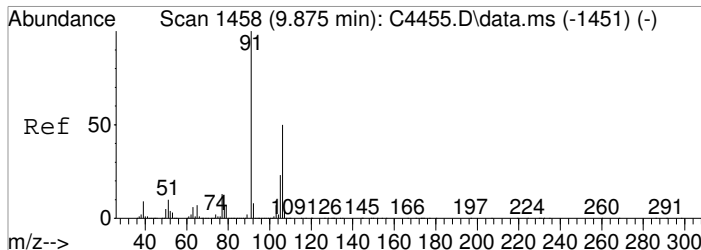
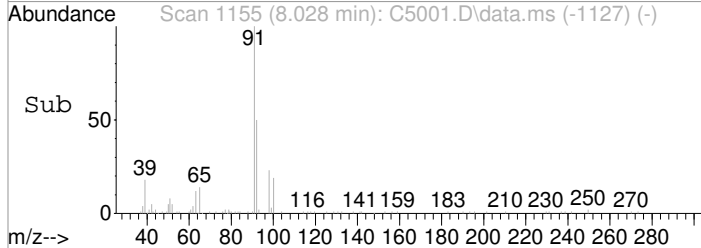
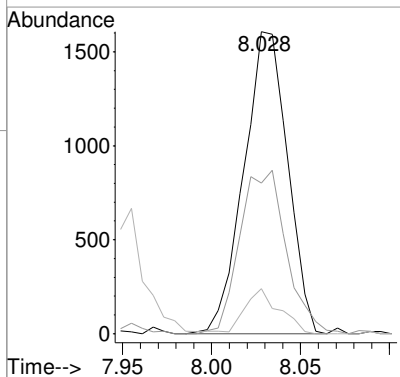
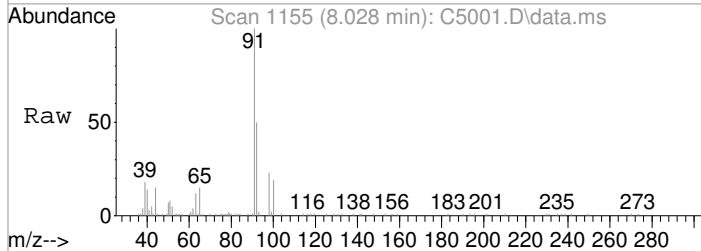
Tgt Ion	Resp	Lower	Upper
55	1338		
83	113.9	106.2	146.2
98	73.1	39.7	79.7





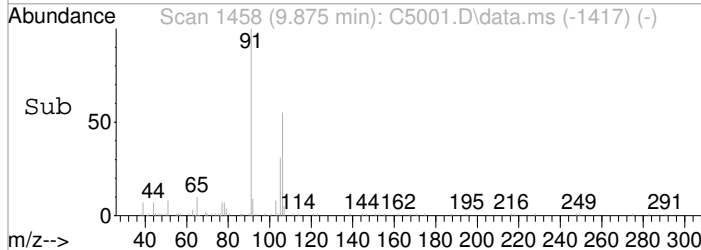
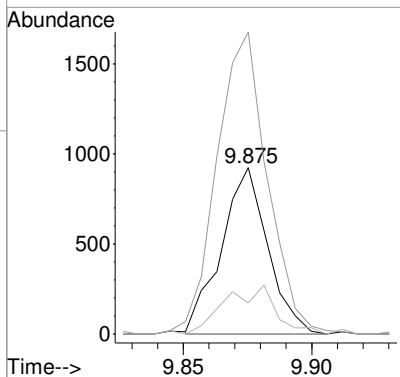
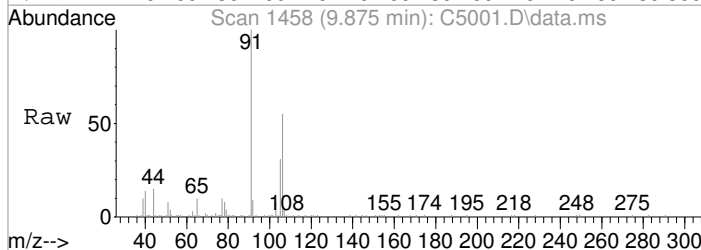
#65  
 Toluene  
 Concen: 0.32 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5001.D  
 Acq: 16 Feb 2018 3:43 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	49.9	39.7	79.7
65	14.9	0.0	31.9



#80  
 (m+p)Xylene  
 Concen: 0.31 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5001.D  
 Acq: 16 Feb 2018 3:43 pm

Tgt Ion	Resp	Lower	Upper
106	100		
91	181.4	180.9	220.9
77	18.7	5.7	45.7



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4992.D  
 Acq On : 16 Feb 2018 12:15 pm  
 Operator : F. NAEGLER  
 Sample : MBLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 16 12:39:13 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	217621	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	327793	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	287432	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	149786	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	99674	48.83	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	97.66%	
47) SURR1,1,2-dichloroetha...	5.120	65	127219	52.03	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	104.06%	
64) SURR3,Toluene-d8	7.949	98	399624	51.20	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	102.40%	
69) SURR2,BFB	10.729	95	154002	48.90	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	97.80%	
Target Compounds						
15) Acetone	2.054	43	1359	1.38	ug/L	90
22) Methylene Chloride	2.389	84	772	0.34	ug/L #	77
23) TBA	2.529	59	755	1.88	ug/L	85
85) Cyclohexanone	10.662	55	331	0.70	ug/L	83
105) 1,2,4-Tcbenzene	13.369	180	865	0.22	ug/L #	78

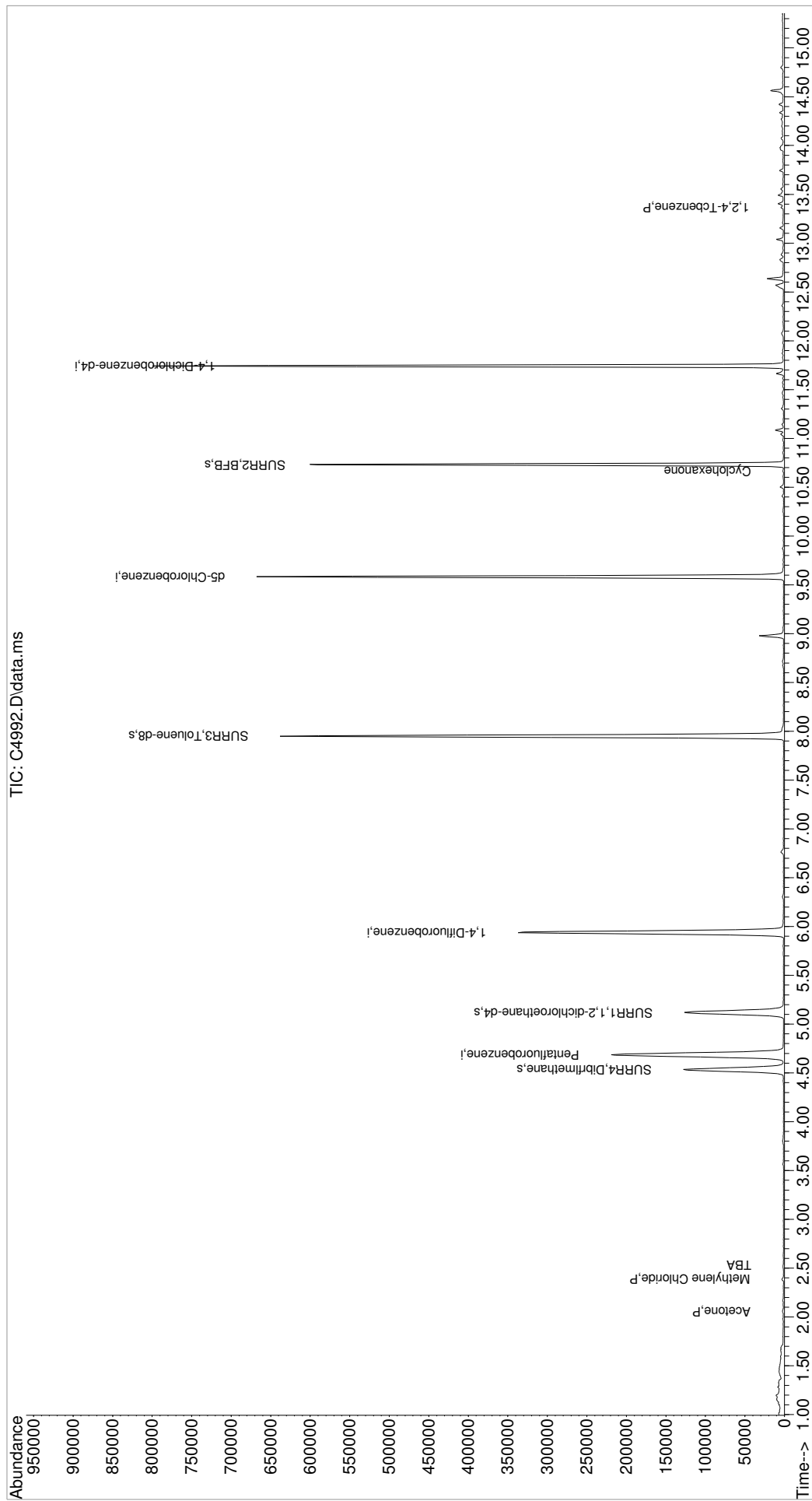
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

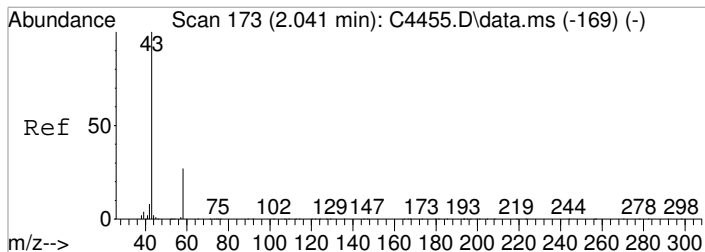
Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4992.D  
Acq On : 16 Feb 2018 12:15 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 12:39:13 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

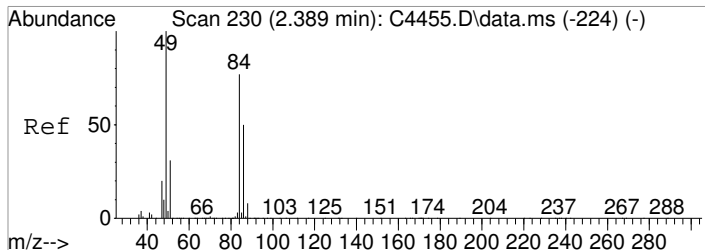
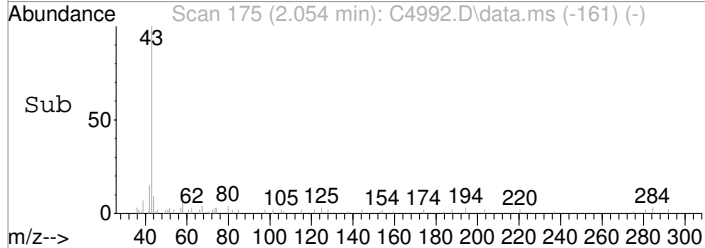
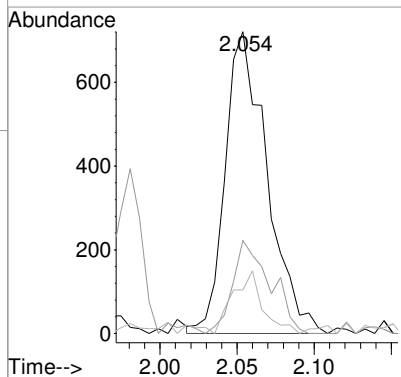
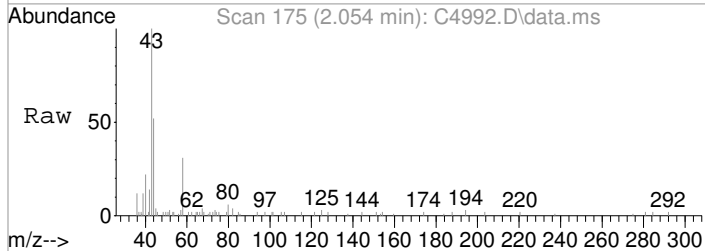






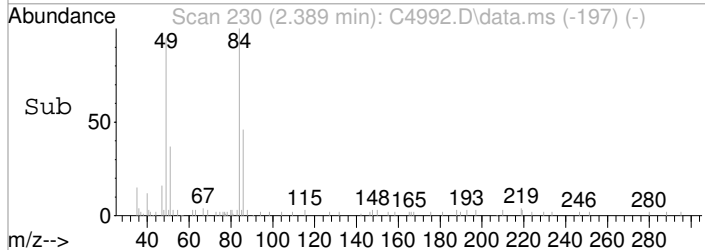
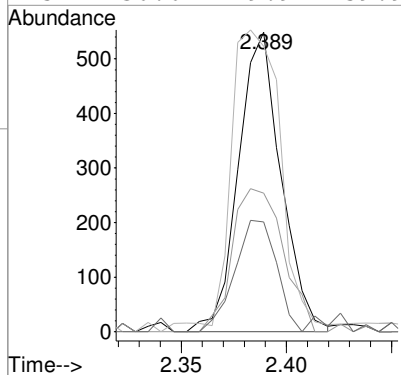
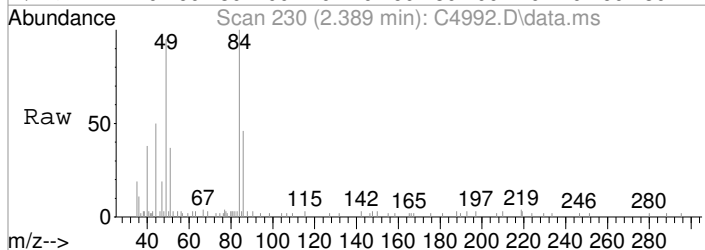
#15  
 Acetone  
 Concen: 1.38 ug/L  
 RT: 2.054 min Scan# 175  
 Delta R.T. 0.013 min  
 Lab File: C4992.D  
 Acq: 16 Feb 2018 12:15 pm

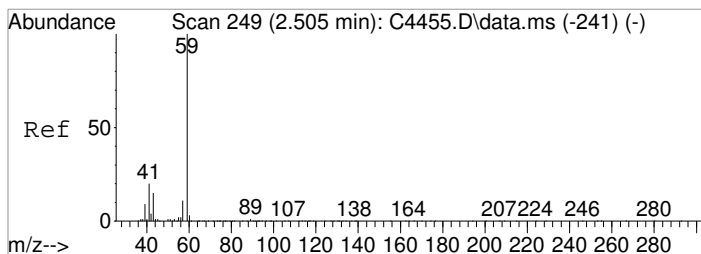
Tgt Ion	Resp	Lower	Upper
43	1359		
58	30.9	7.1	47.1
42	14.4	0.0	28.6



#22  
 Methylene Chloride  
 Concen: 0.34 ug/L  
 RT: 2.389 min Scan# 230  
 Delta R.T. 0.000 min  
 Lab File: C4992.D  
 Acq: 16 Feb 2018 12:15 pm

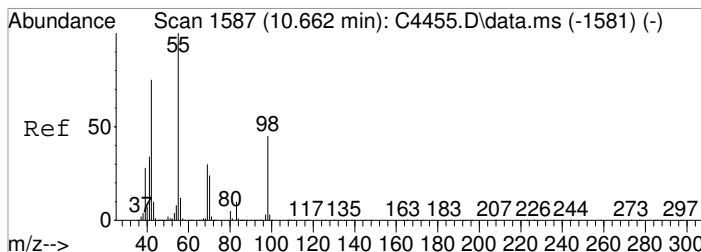
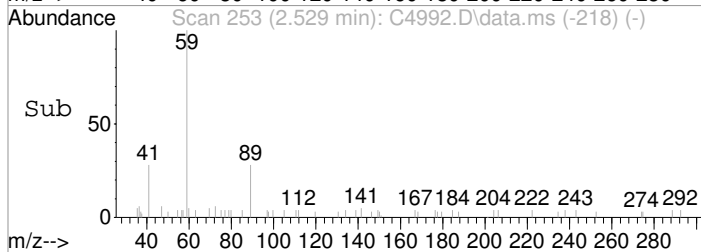
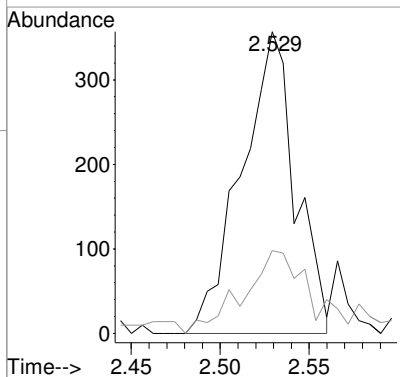
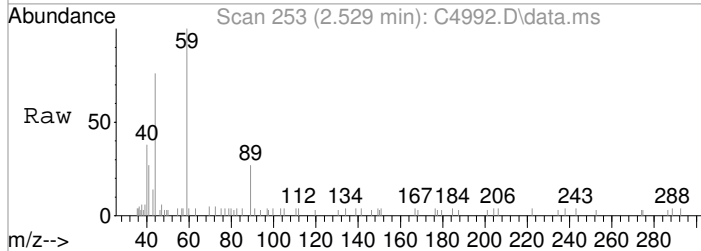
Tgt Ion	Resp	Lower	Upper
84	772		
86	46.3	43.9	83.9
49	95.3	109.1	149.1#
51	36.6	19.9	59.9





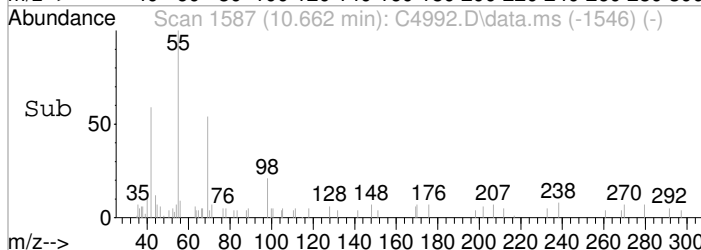
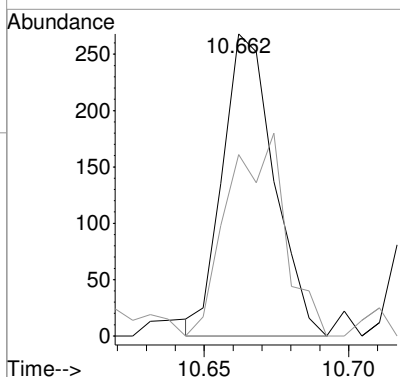
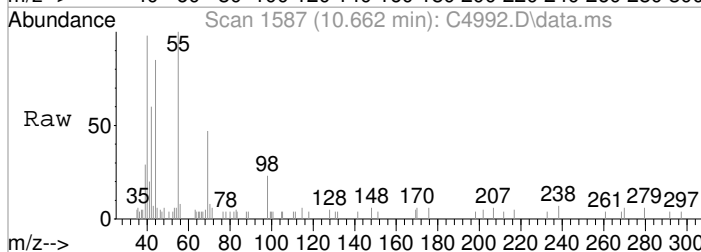
#23  
 TBA  
 Concen: 1.88 ug/L  
 RT: 2.529 min Scan# 253  
 Delta R.T. 0.025 min  
 Lab File: C4992.D  
 Acq: 16 Feb 2018 12:15 pm

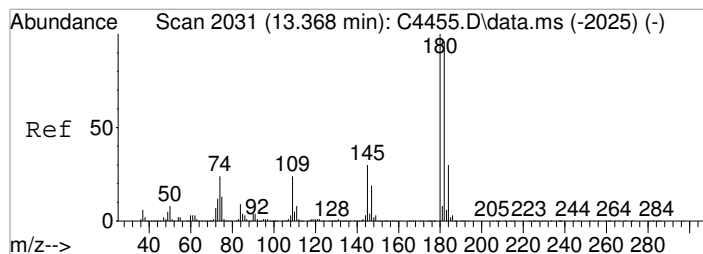
Tgt Ion: 59 Resp: 755  
 Ion Ratio Lower Upper  
 59 100  
 41 27.5 0.3 40.3



#85  
 Cyclohexanone  
 Concen: 0.70 ug/L  
 RT: 10.662 min Scan# 1587  
 Delta R.T. 0.000 min  
 Lab File: C4992.D  
 Acq: 16 Feb 2018 12:15 pm

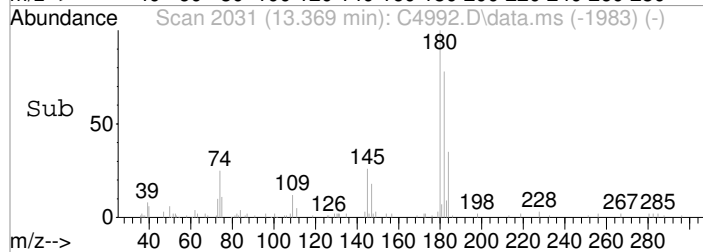
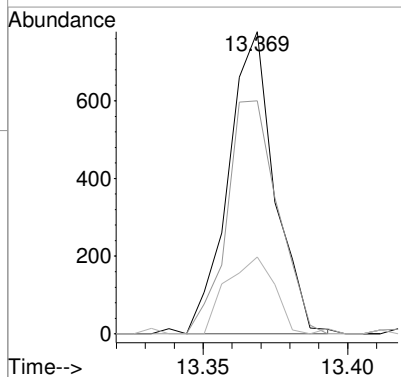
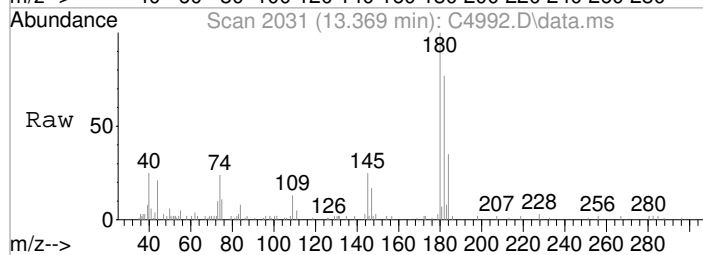
Tgt Ion: 55 Resp: 331  
 Ion Ratio Lower Upper  
 55 100  
 42 60.1 54.7 94.7





#105  
 1,2,4-Tcbenzene  
 Concen: 0.22 ug/L  
 RT: 13.369 min Scan# 2031  
 Delta R.T. 0.000 min  
 Lab File: C4992.D  
 Acq: 16 Feb 2018 12:15 pm

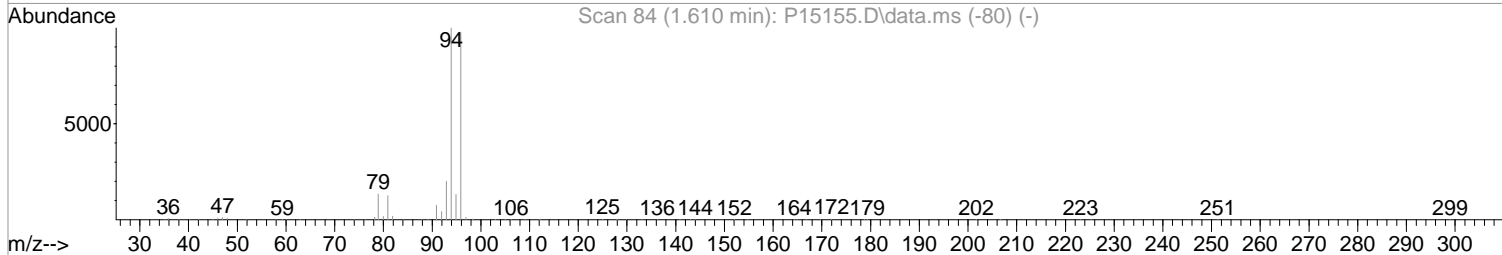
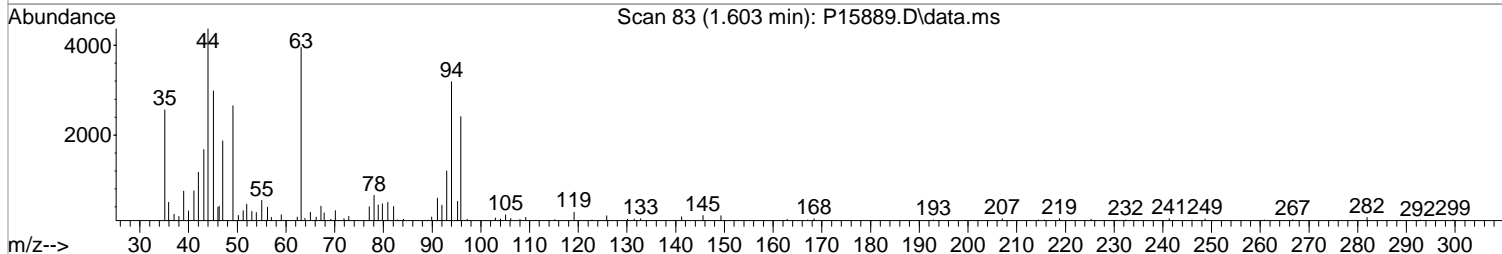
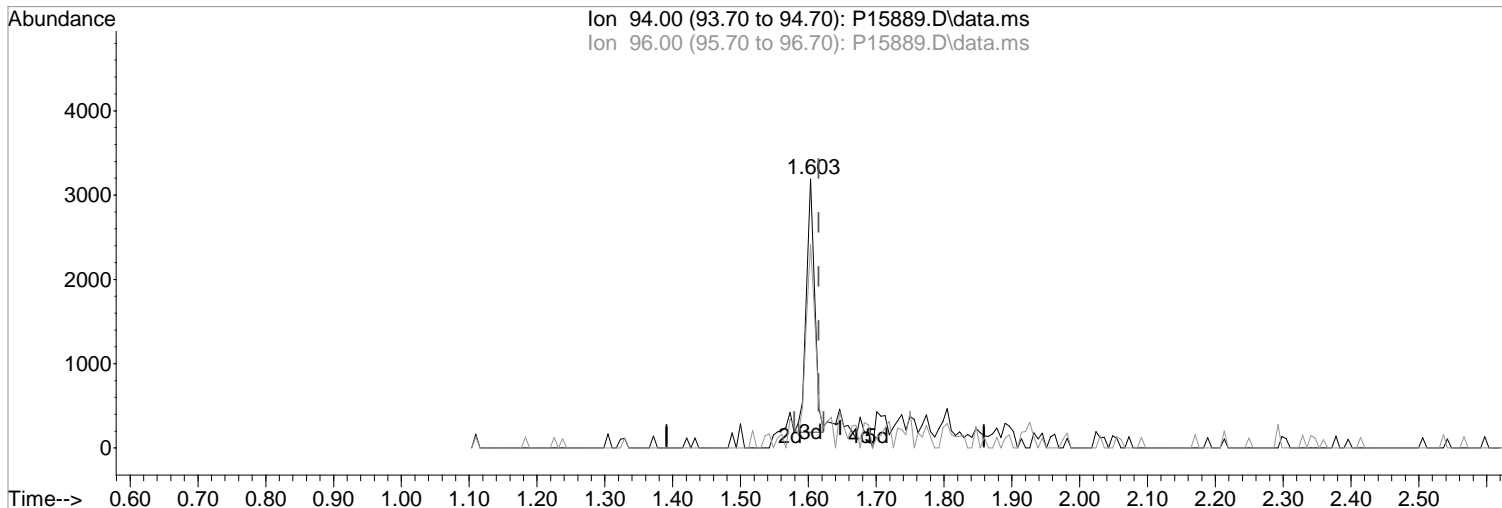
Tgt Ion	Resp	Lower	Upper
180	100		
182	71.9	76.4	116.4#
145	23.7	9.8	49.8



Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15889.D  
Acq On : 20 Feb 2018 1:00 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 13:52:31 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.603min (-0.012) 0.62 ppb m  
response 2551

Manual Integration:

After

Peak not found.

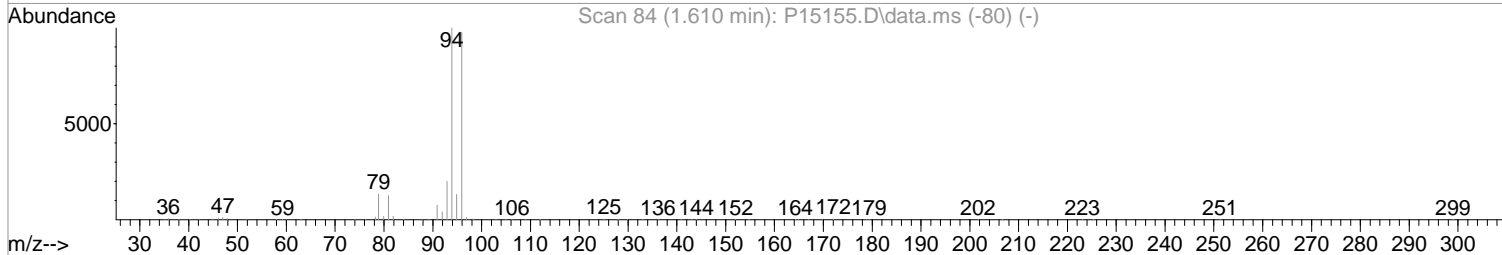
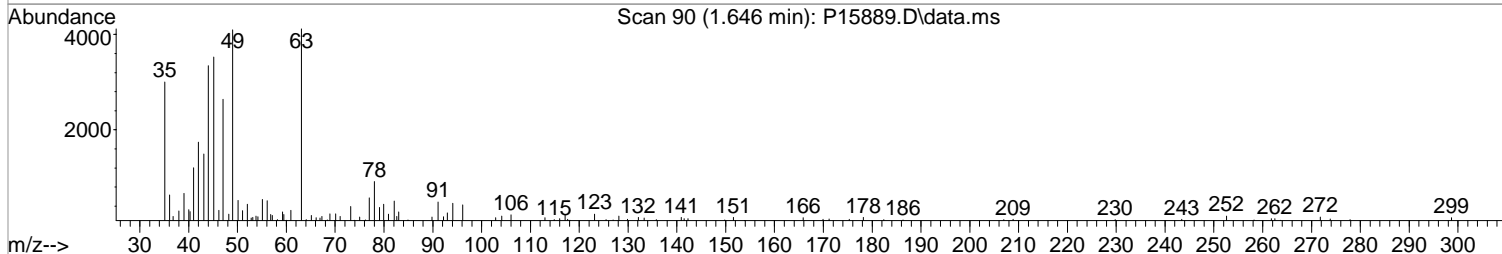
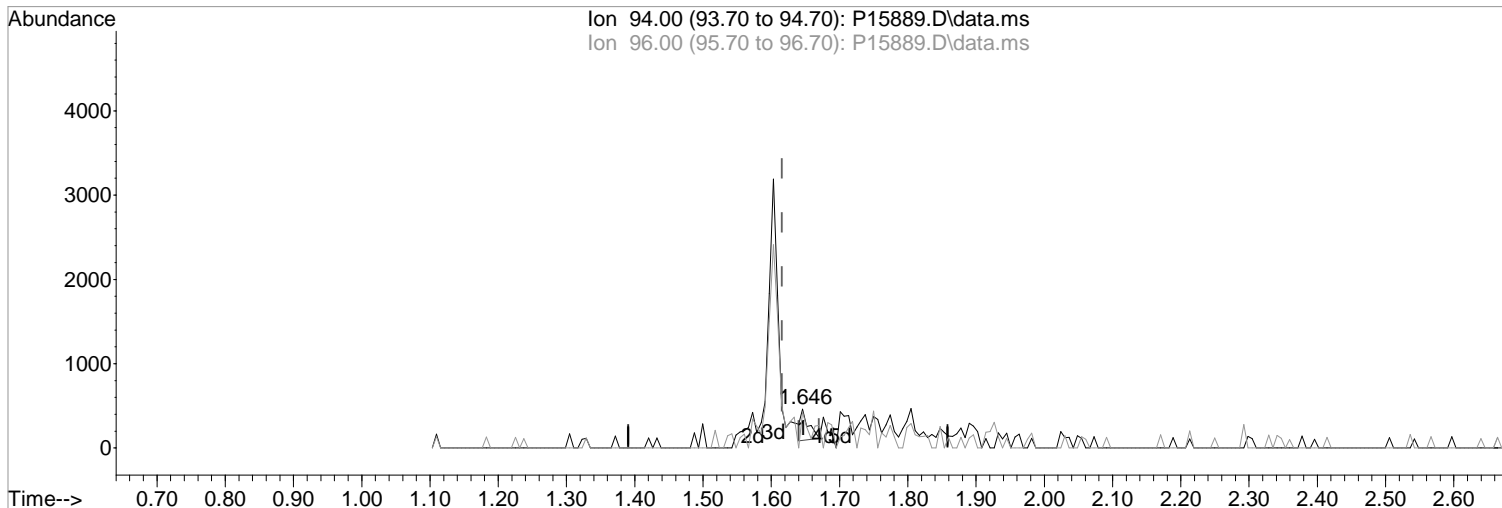
02/20/18

Ion	Exp%	Act%
94.00	100	100
96.00	97.70	75.58#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15889.D  
 Acq On : 20 Feb 2018 1:00 pm  
 Operator : K.Ruest  
 Sample : MEDBLK|50  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 13:52:31 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration



TIC: P15889.D\data.ms

(5) Bromomethane (P)

Manual Integration:

1.646min (+0.030) -1.00 ppb

Before

response 288

Ion	Exp%	Act%
94.00	100	100
96.00	97.70	92.61
0.00	0.00	0.00
0.00	0.00	0.00

02/20/18

Data Path : I:\ACQUDATA\msvoal2\Data\022018\  
 Data File : P15889.D  
 Acq On : 20 Feb 2018 1:00 pm  
 Operator : K.Ruest  
 Sample : MEDBLK|50 Inst : MSVOA-12  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 20 17:08:39 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

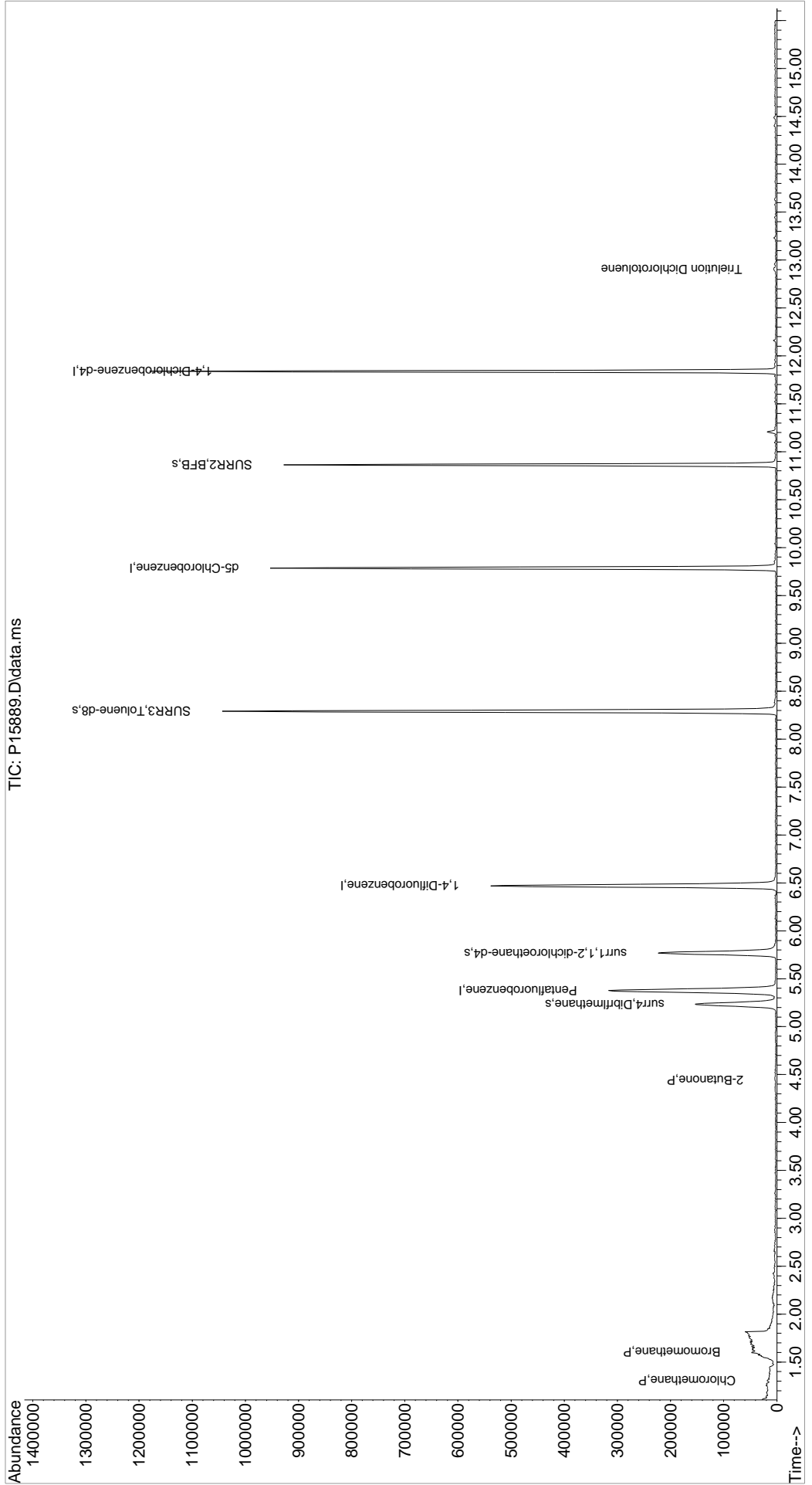
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	281434	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	478534	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	425767	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	222081	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	129294	45.51	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	91.02%	
48) surr1,1,2-dichloroetha...	5.767	65	197693	50.77	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.54%	
65) SURR3,Toluene-d8	8.291	98	637942	50.28	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.56%	
70) SURR2,BFB	10.864	95	249582	50.84	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	101.68%	
Target Compounds						
3) Chloromethane	1.305	50	1484	0.35	ppb	Qvalue 81
5) Bromomethane	1.603	94	2551m	0.62	ppb	
35) 2-Butanone	4.444	43	3623	1.68	ppb	87
112) Trielution Dichlorotol...	12.906	125	1831	0.27	ppb #	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

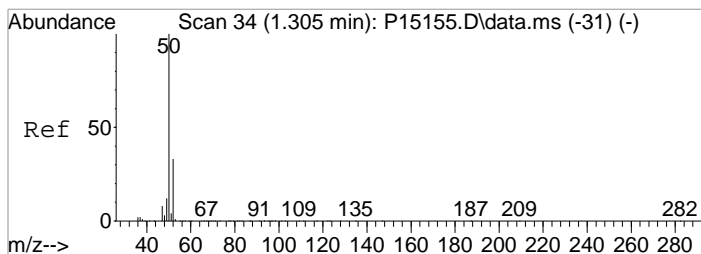
Data Path : I:\ACQDATA\msvoa12\Data\022018\  
Data File : P15889.D  
Acq On : 20 Feb 2018 1:00 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 17:08:39 2018  
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration

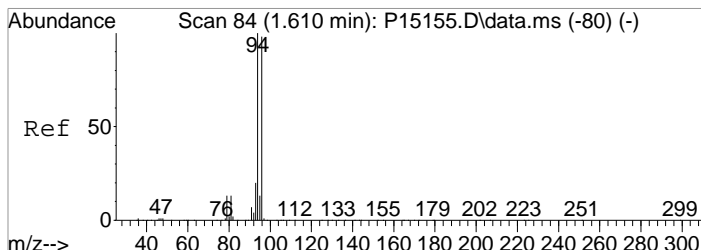
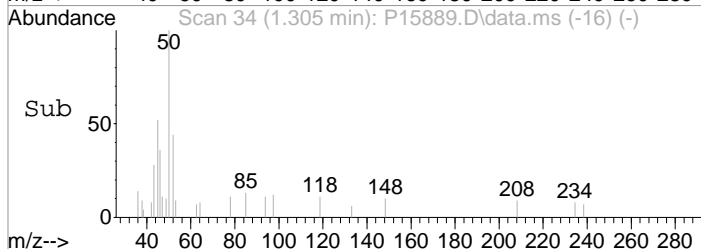
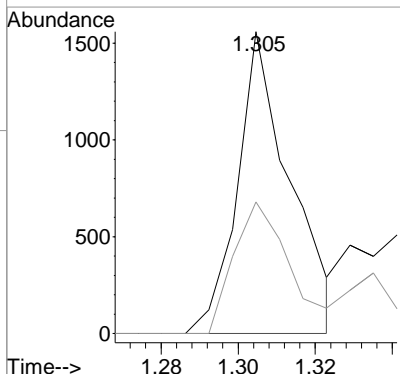
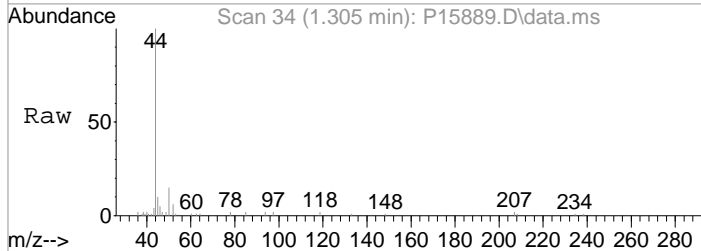






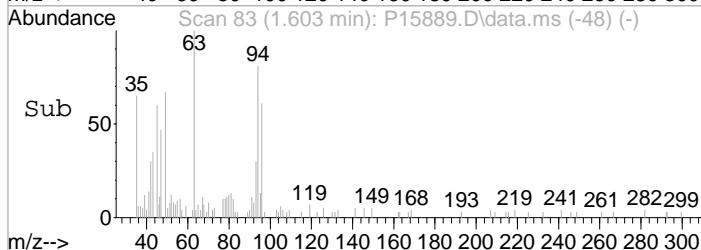
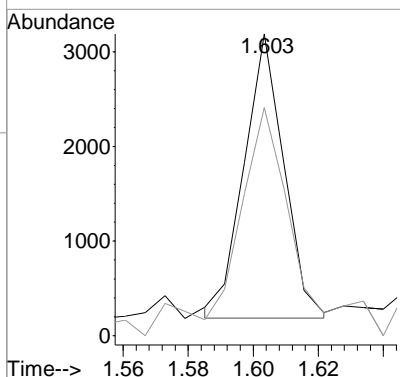
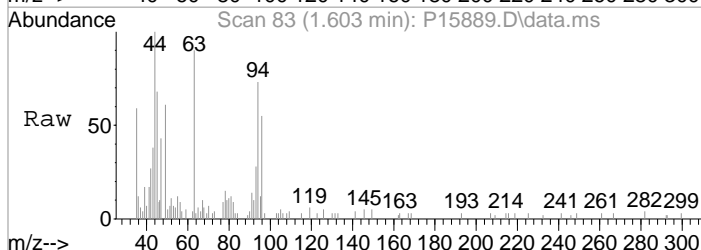
#3  
 Chloromethane  
 Concen: 0.35 ppb  
 RT: 1.305 min Scan# 34  
 Delta R.T. -0.006 min  
 Lab File: P15889.D  
 Acq: 20 Feb 2018 1:00 pm

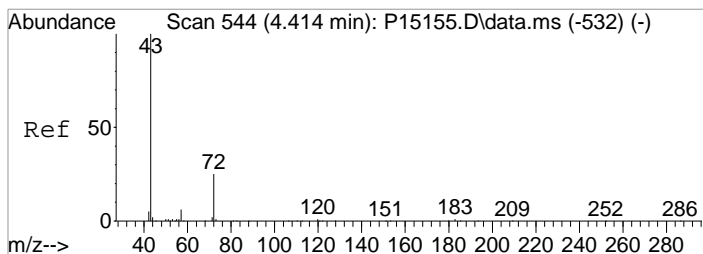
Tgt Ion	Resp	Lower	Upper
50	100		
52	43.5	12.8	52.8



#5  
 Bromomethane  
 Concen: 0.62 ppb m  
 RT: 1.603 min Scan# 83  
 Delta R.T. -0.012 min  
 Lab File: P15889.D  
 Acq: 20 Feb 2018 1:00 pm

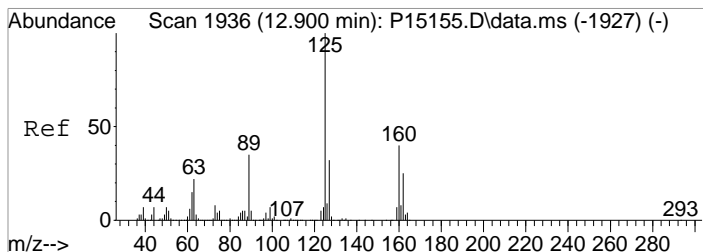
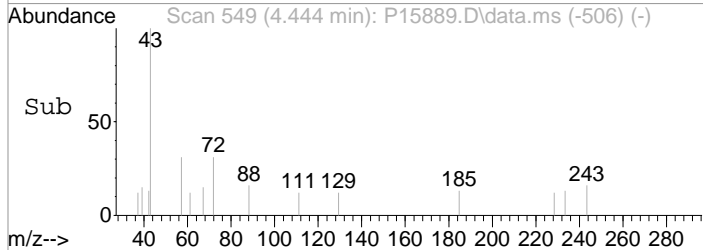
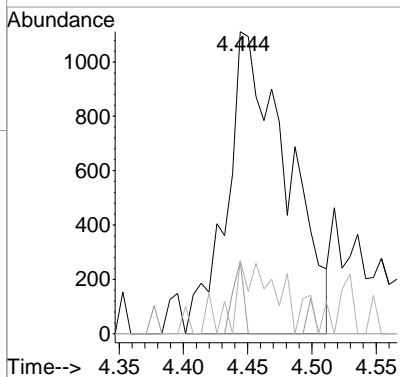
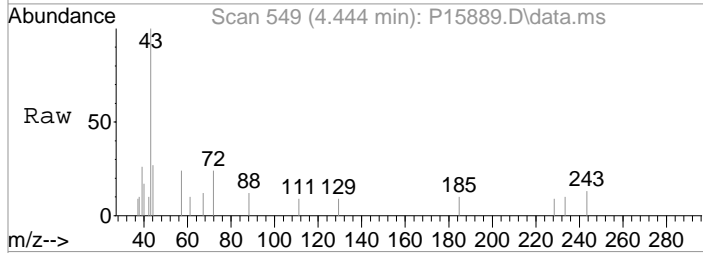
Tgt Ion	Resp	Lower	Upper
94	100		
96	75.6	77.7	117.7#





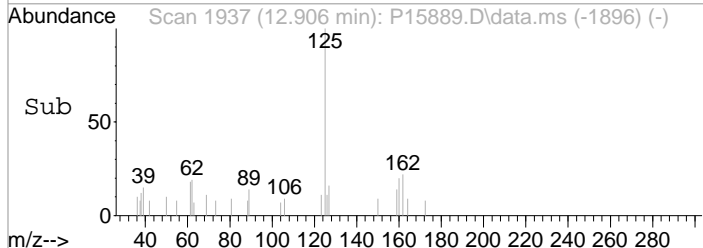
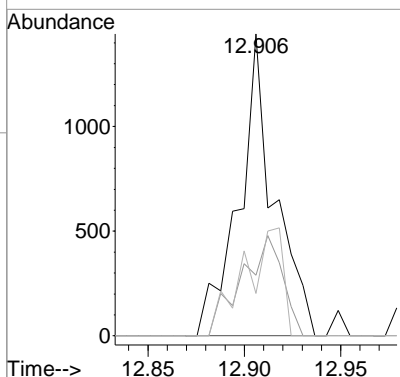
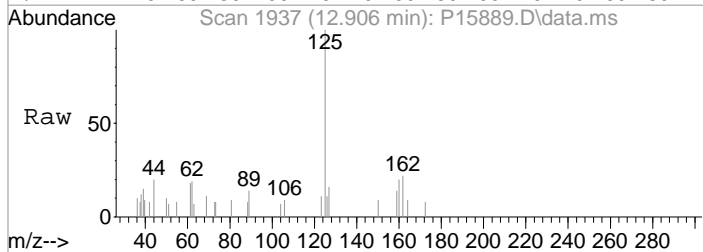
#35  
 2-Butanone  
 Concen: 1.68 ppb  
 RT: 4.444 min Scan# 549  
 Delta R.T. 0.037 min  
 Lab File: P15889.D  
 Acq: 20 Feb 2018 1:00 pm

Tgt Ion	Resp	Lower	Upper
43	3623		
57	24.0	0.0	26.7
72	24.2	6.1	46.1



#112  
 Trilution Dichlorotoluene  
 Concen: 0.27 ppb  
 RT: 12.906 min Scan# 1937  
 Delta R.T. -0.000 min  
 Lab File: P15889.D  
 Acq: 20 Feb 2018 1:00 pm

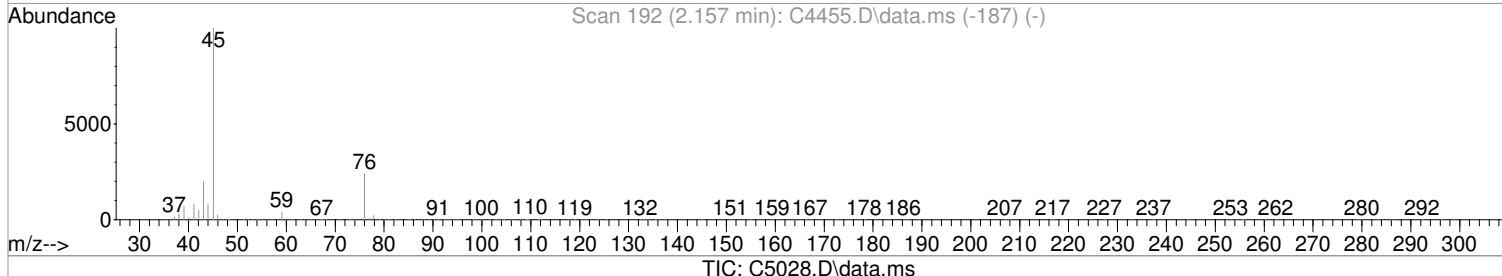
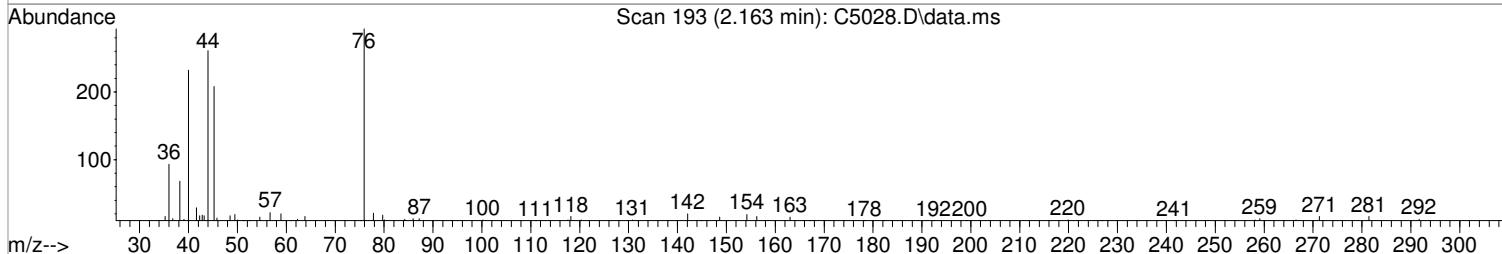
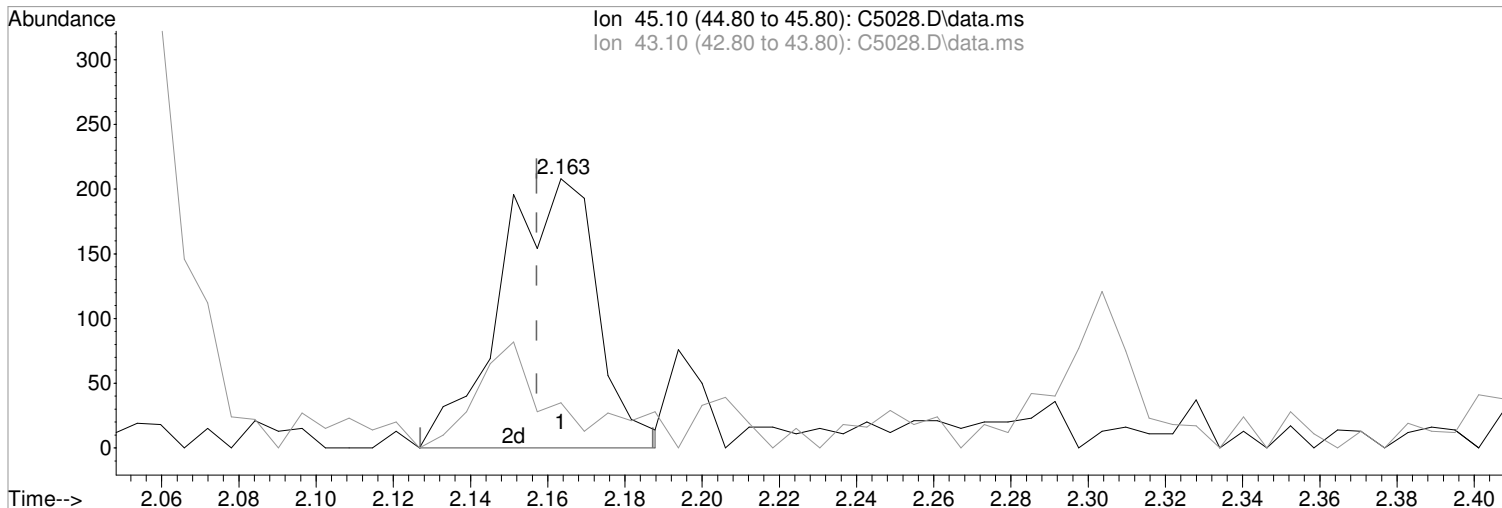
Tgt Ion	Resp	Lower	Upper
125	1831		
160	20.1	32.2	48.2#
89	14.0	28.3	42.5#



Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5028.D  
Acq On : 17 Feb 2018 3:54 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 26 10:24:50 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(16) 2-Propanol  
2.163min (+0.006) 1.64 ug/L m  
response 360

Manual Integration:

After

Poor integration.

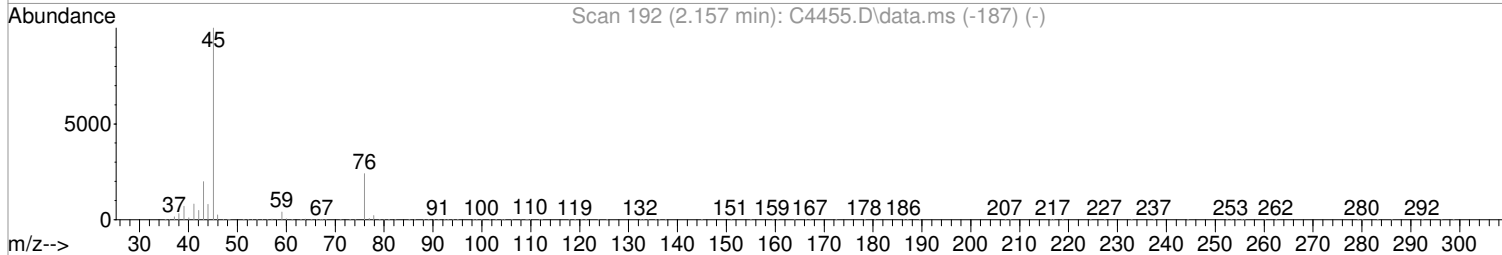
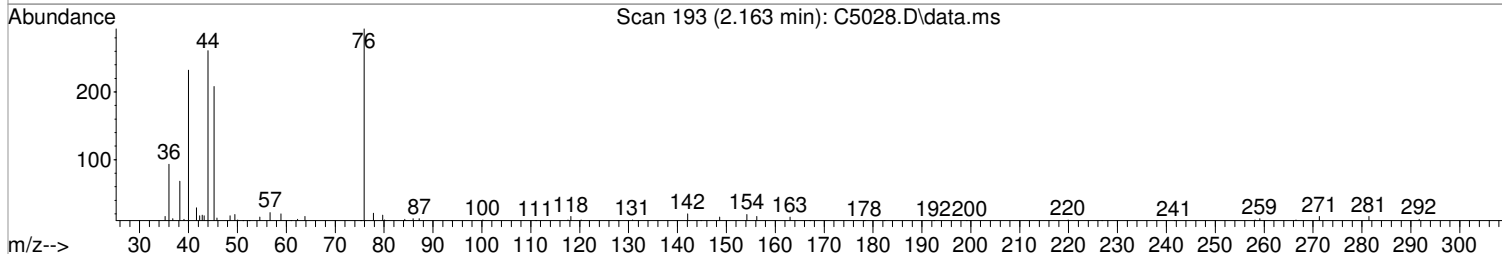
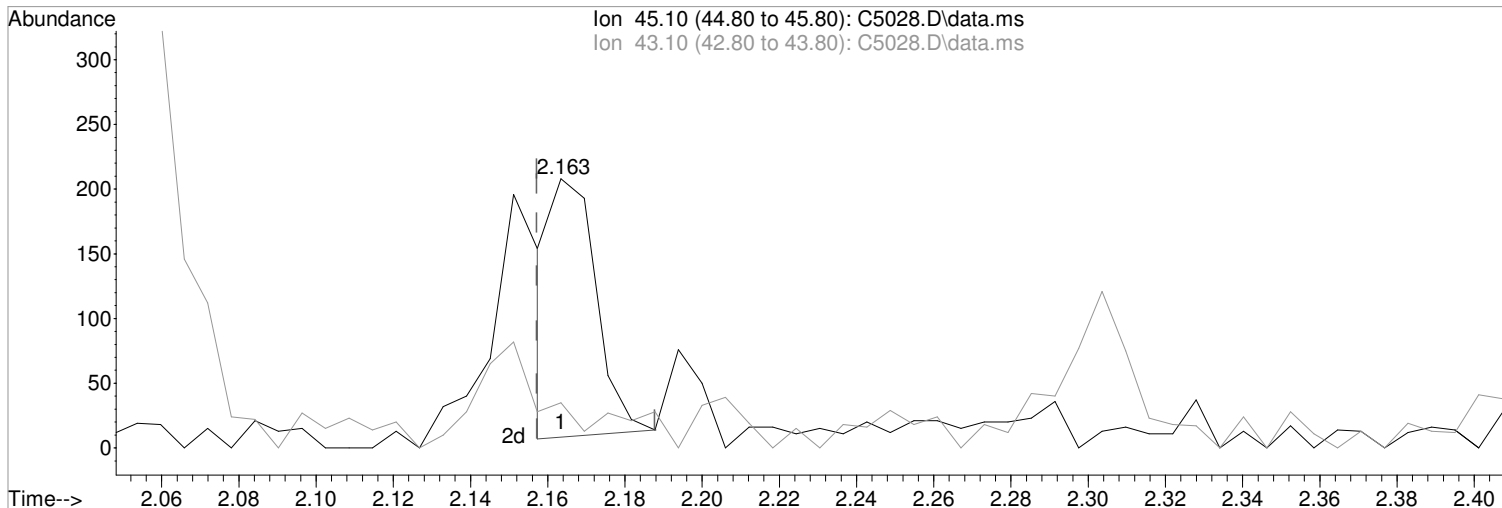
02/26/18

Ion	Exp%	Act%
45.10	100	100
43.10	20.10	8.65
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5028.D  
Acq On : 17 Feb 2018 3:54 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 26 10:24:50 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(16) 2-Propanol  
2.163min (+0.006) 0.73 ug/L  
response 161

Manual Integration:  
Before

Ion	Exp%	Act%
45.10	100	100
43.10	20.10	15.77
0.00	0.00	0.00
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5028.D  
 Acq On : 17 Feb 2018 3:54 pm  
 Operator : F. NAEGLER  
 Sample : MBLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 10:26:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

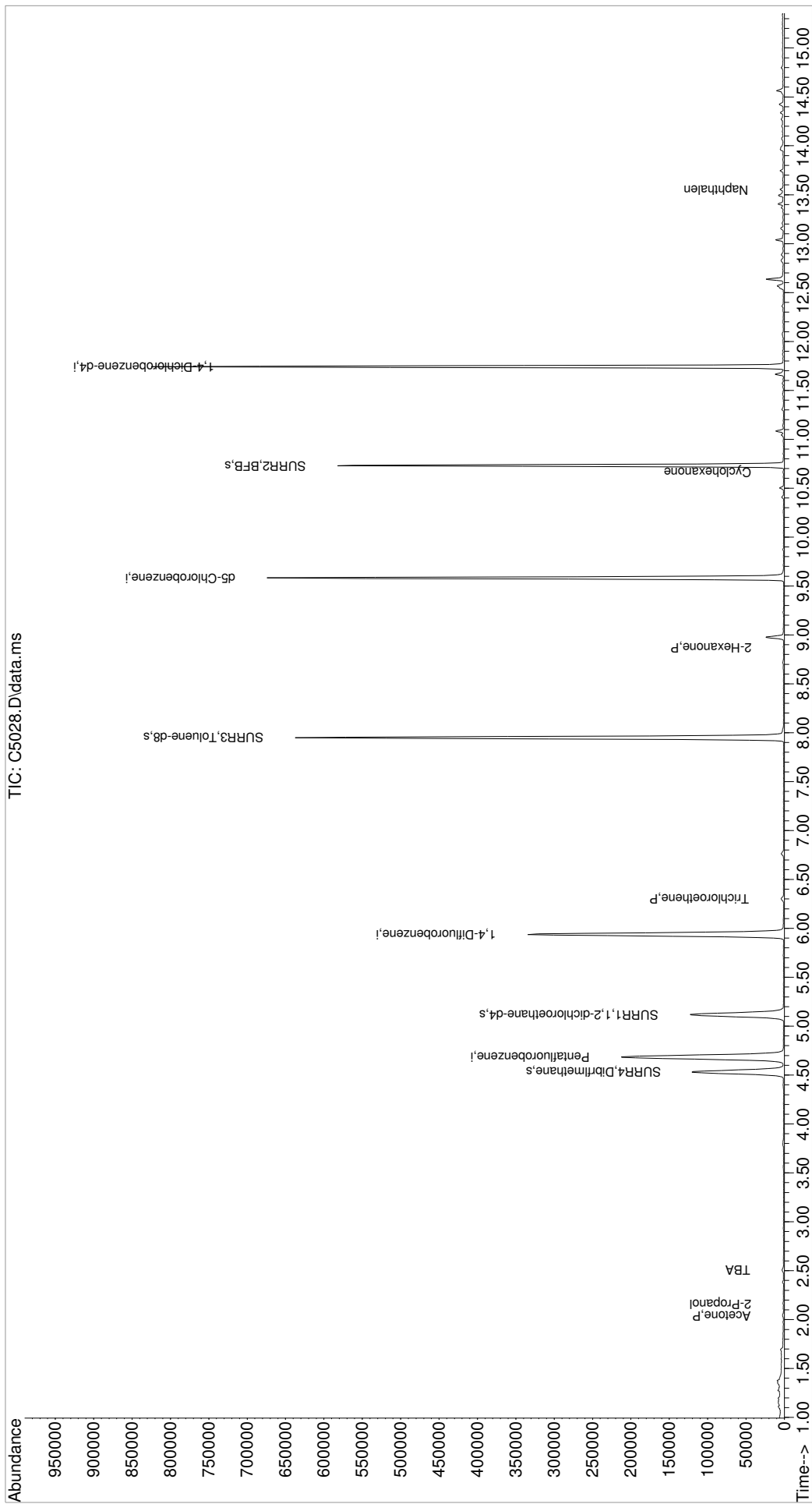
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	212580	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	323363	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	293467	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	153196	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	97204	48.27	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	96.54%		
47) SURR1,1,2-dichloroetha...	5.120	65	123620	51.25	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	102.50%		
64) SURR3,Toluene-d8	7.949	98	386991	50.26	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	100.52%		
69) SURR2,BFB	10.729	95	152208	49.00	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	98.00%		
Target Compounds						
15) Acetone	2.041	43	1463	1.52	ug/L	95
16) 2-Propanol	2.163	45	360m	1.64	ug/L	
23) TBA	2.511	59	1169	2.98	ug/L	91
53) Trichloroethene	6.303	130	1357	0.58	ug/L #	83
72) 2-Hexanone	8.869	43	415	0.21	ug/L	93
85) Cyclohexanone	10.662	55	310	0.65	ug/L	95
107) Naphthalen	13.551	128	2430	0.25	ug/L	99

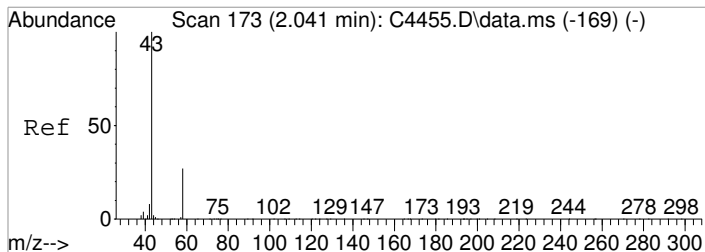
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5028.D  
Acq On : 17 Feb 2018 3:54 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA14

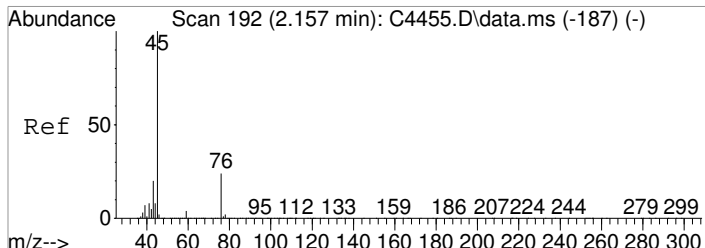
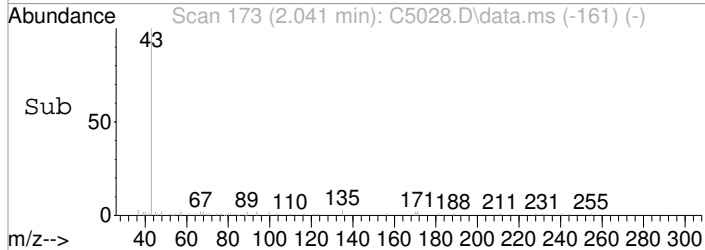
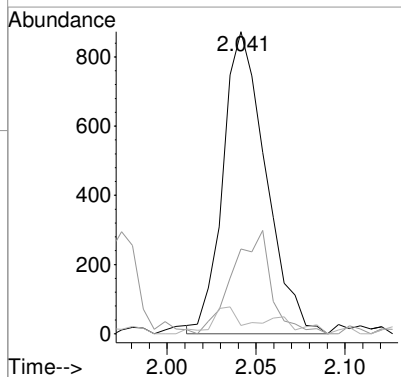
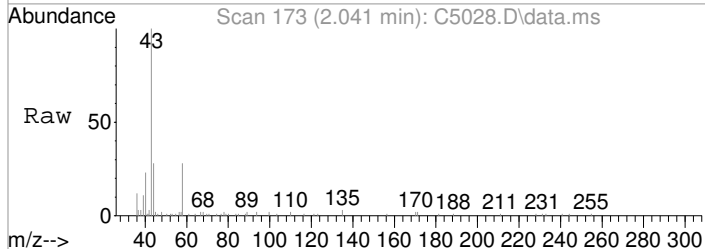
Quant Time: Feb 26 10:26:34 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration





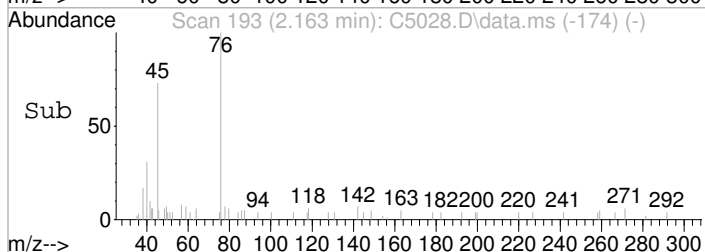
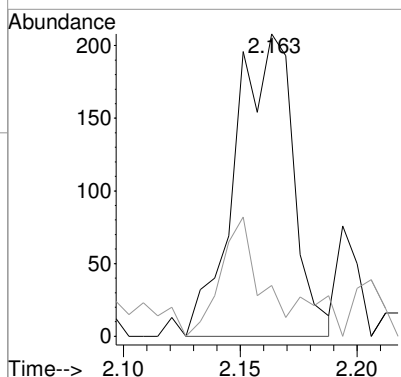
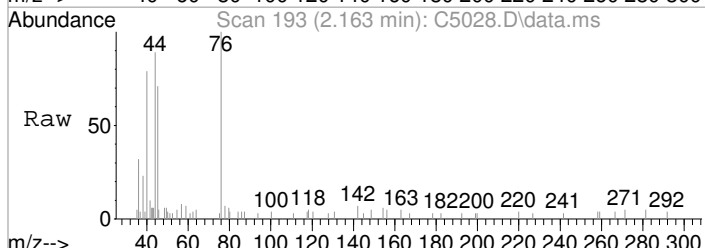
#15  
 Acetone  
 Concen: 1.52 ug/L  
 RT: 2.041 min Scan# 173  
 Delta R.T. 0.000 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

Tgt Ion	Resp	Lower	Upper
43	1463		
58	28.1	7.1	47.1
42	2.7	0.0	28.6

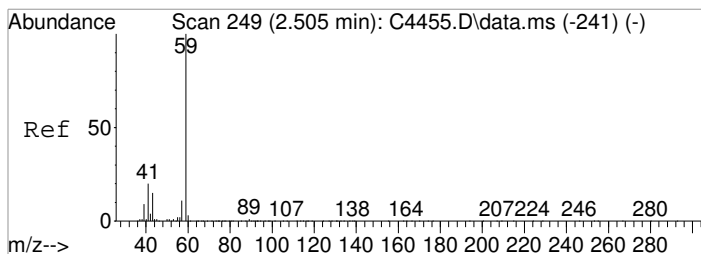


#16  
 2-Propanol  
 Concen: 1.64 ug/L m  
 RT: 2.163 min Scan# 193  
 Delta R.T. 0.006 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

Tgt Ion	Resp	Lower	Upper
45	360		
43	8.7	0.1	40.1

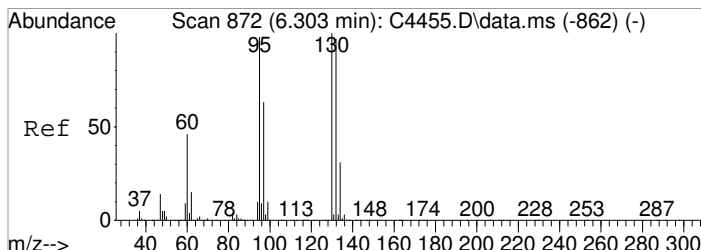
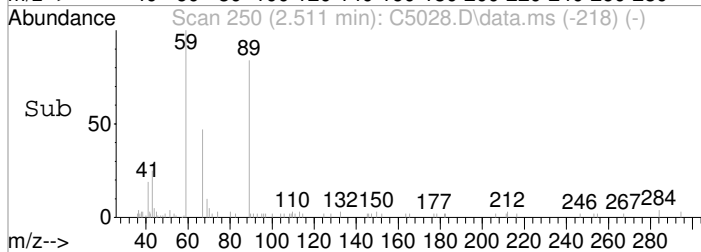
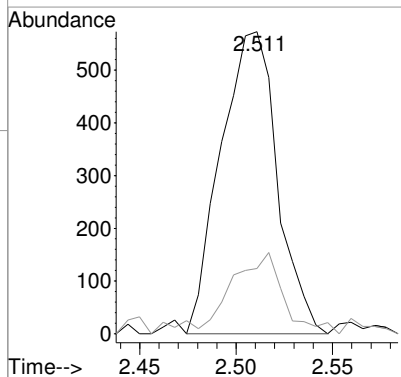
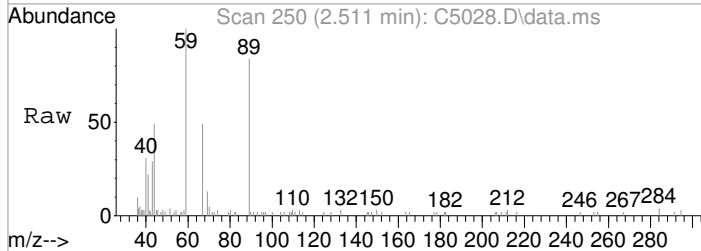






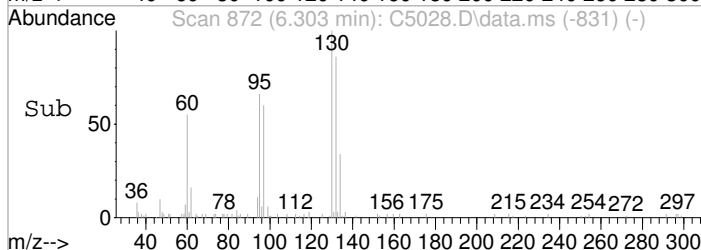
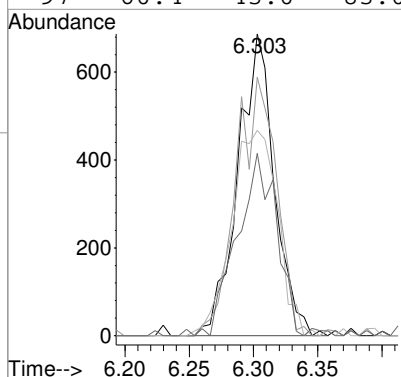
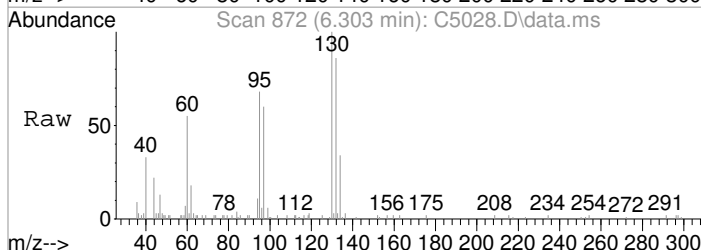
#23  
 TBA  
 Concen: 2.98 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

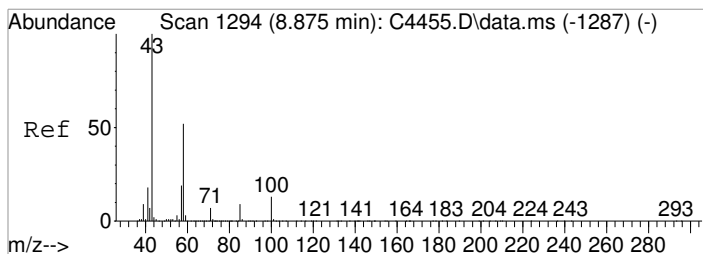
Tgt Ion	Resp	Lower	Upper
59	1169		
41	24.6	0.3	40.3



#53  
 Trichloroethene  
 Concen: 0.58 ug/L  
 RT: 6.303 min Scan# 872  
 Delta R.T. 0.000 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

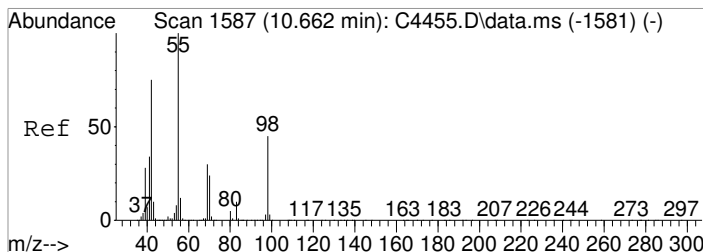
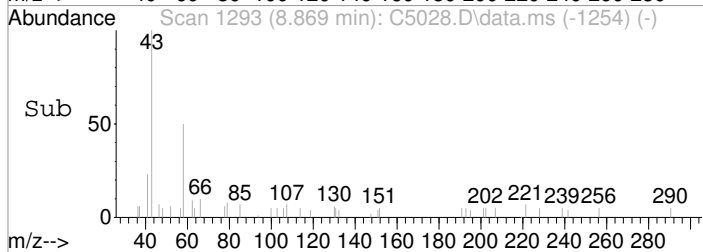
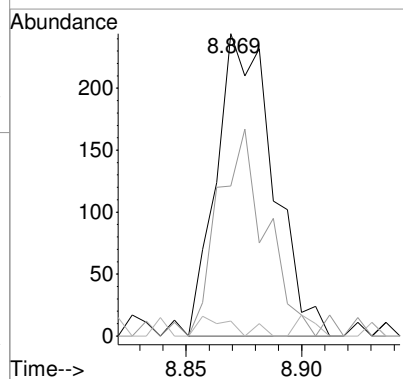
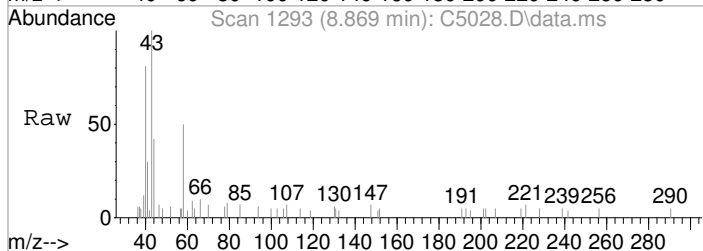
Tgt Ion	Resp	Lower	Upper
130	1357		
132	85.7	77.0	117.0
95	68.1	78.3	118.3#
97	60.4	43.0	83.0





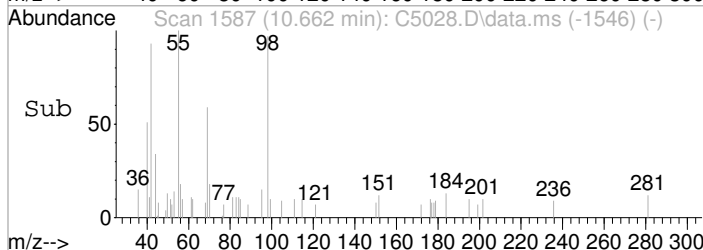
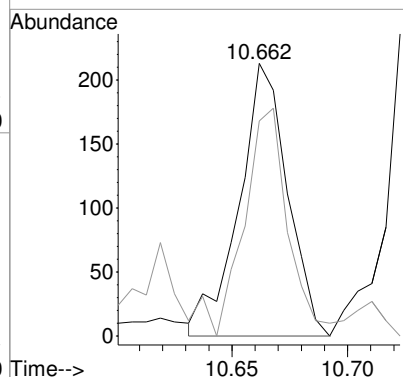
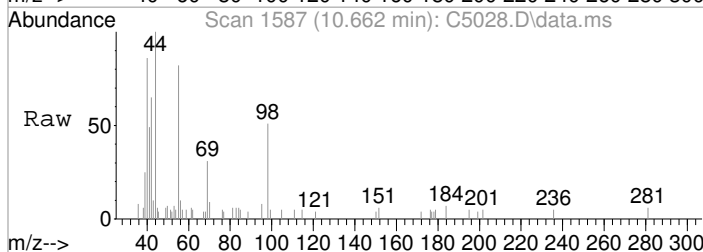
#72  
 2-Hexanone  
 Concen: 0.21 ug/L  
 RT: 8.869 min Scan# 1293  
 Delta R.T. -0.006 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

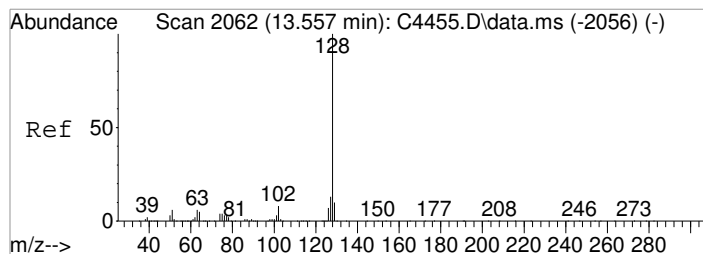
Tgt Ion	Resp	Lower	Upper
43	100		
58	49.6	32.2	72.2
100	4.9	0.0	32.9



#85  
 Cyclohexanone  
 Concen: 0.65 ug/L  
 RT: 10.662 min Scan# 1587  
 Delta R.T. 0.000 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

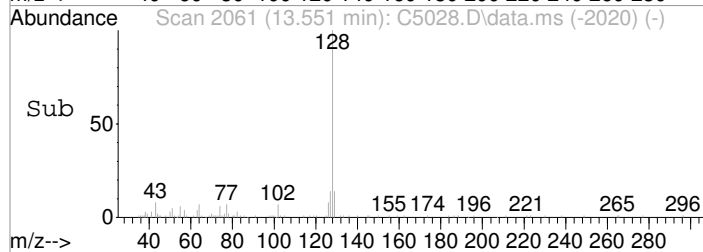
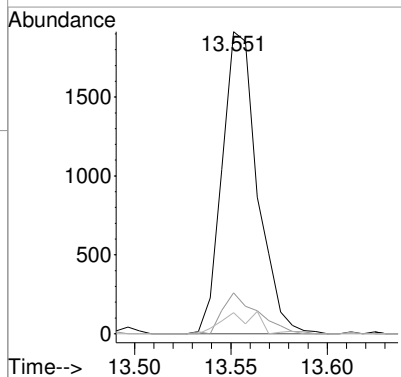
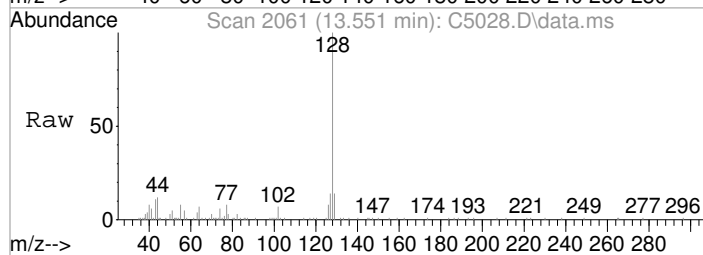
Tgt Ion	Resp	Lower	Upper
55	100		
42	78.9	54.7	94.7





#107  
 Naphthalen  
 Concen: 0.25 ug/L  
 RT: 13.551 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5028.D  
 Acq: 17 Feb 2018 3:54 pm

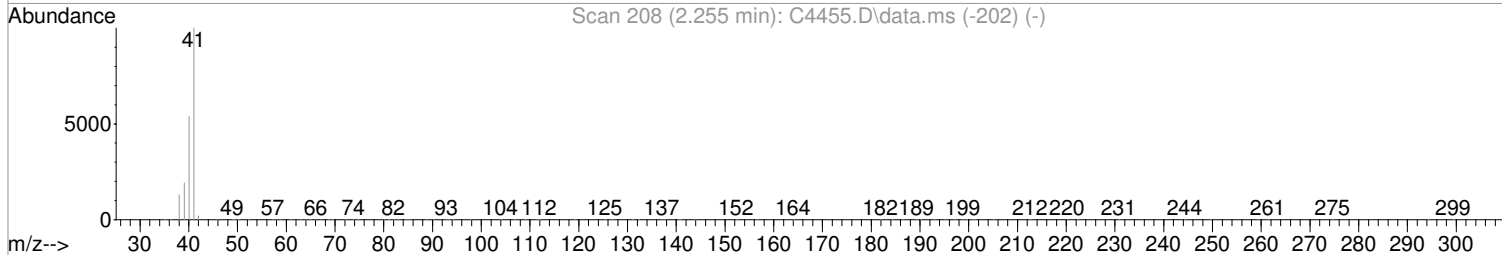
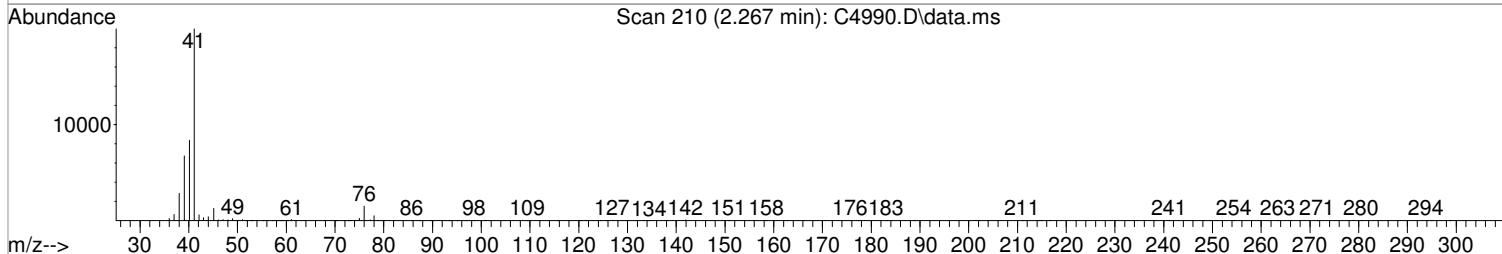
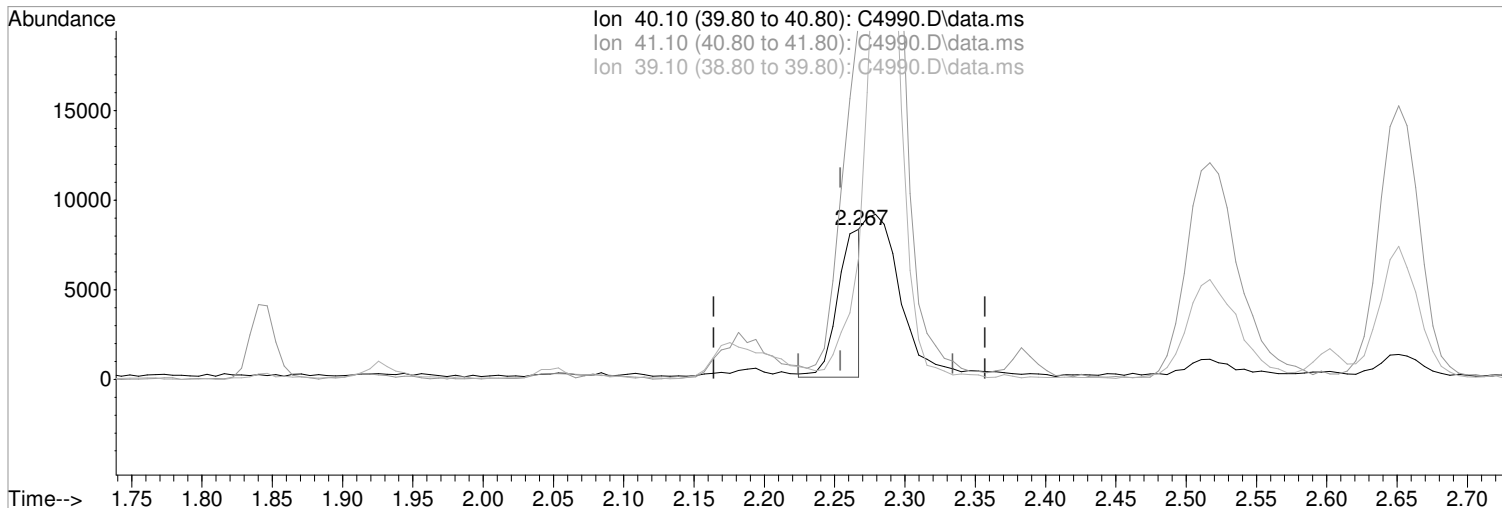
Tgt Ion	Resp	Lower	Upper
128	100		
127	13.5	0.0	33.4
102	6.9	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4990.D  
Acq On : 16 Feb 2018 11:29 am  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:47:27 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.267min (+0.013) 67.15 ug/L m  
response 9642

Manual Integration:  
After  
Poor integration.

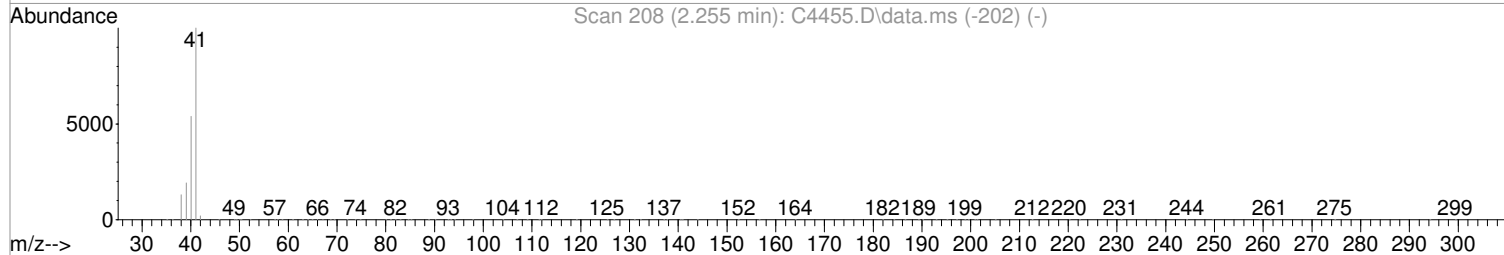
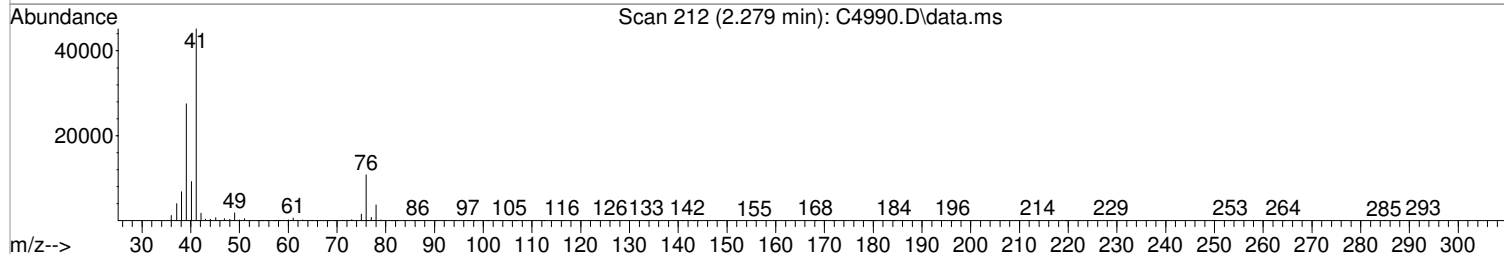
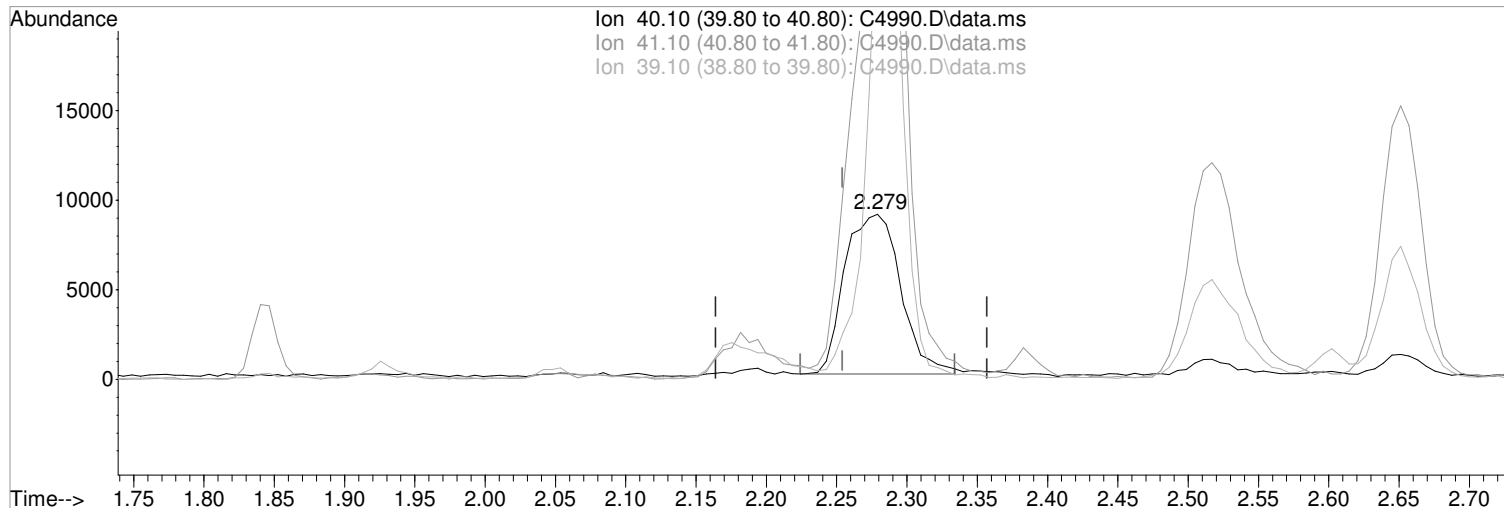
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	238.76#
39.10	36.10	80.80#
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4990.D  
Acq On : 16 Feb 2018 11:29 am  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:47:27 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.279min (+0.025) 171.24 ug/L  
response 24589

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	490.18#
39.10	36.10	298.36#
0.00	0.00	0.00

02/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4990.D  
 Acq On : 16 Feb 2018 11:29 am  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:48:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	211075	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	321361	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	282569	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	148879	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) SURR4,Dibrflmethane	4.529	113	101110	50.52	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery	=	101.04%		
47) SURR1,1,2-dichloroetha...	5.120	65	124334	51.87	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery	=	103.74%		
64) SURR3,Toluene-d8	7.949	98	388916	50.82	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery	=	101.64%		
69) SURR2,BFB	10.735	95	149827	48.53	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery	=	97.06%		
<b>Target Compounds</b>							
							<b>Qvalue</b>
2) Dichlorodifluoromethane	1.036	85	50108	18.57	ug/L		98
3) Chloromethane	1.145	50	55562	17.00	ug/L		97
4) Vinyl Chloride	1.212	62	50323	20.12	ug/L		100
5) Bromomethane	1.413	94	27185	16.47	ug/L		100
6) Chloroethane	1.474	64	29150	21.19	ug/L		99
7) Freon 21	1.602	67	84188	22.10	ug/L		98
8) Trichlorofluoromethane	1.645	101	59645	20.83	ug/L		97
9) Diethyl Ether	1.846	59	38220	20.79	ug/L		98
10) Freon 123a	1.840	67	57461	23.62	ug/L		94
11) Freon 123	1.889	83	61208	21.91	ug/L		95
12) Acrolein	1.926	56	15527	34.00	ug/L		93
13) 1,1-Dicethene	2.005	96	35380	19.07	ug/L		99
14) Freon 113	2.011	101	35784	19.48	ug/L		100
15) Acetone	2.047	43	20738	21.68	ug/L		98
16) 2-Propanol	2.182	45	79642	365.22	ug/L		99
17) Iodomethane	2.115	142	48428	35.00	ug/L		100
18) Carbon Disulfide	2.169	76	114012	18.05	ug/L		100
19) Acetonitrile	2.267	40	9642m	67.15	ug/L		
20) Allyl Chloride	2.285	76	20498	22.75	ug/L	#	72
21) Methyl Acetate	2.310	43	37475	20.59	ug/L		99
22) Methylene Chloride	2.383	84	43703	19.88	ug/L		95
23) TBA	2.517	59	135779	349.11	ug/L		96
24) Acrylonitrile	2.602	53	89863	103.97	ug/L		100
25) Methyl-t-Butyl Ether	2.651	73	134550	19.76	ug/L		97
26) trans-1,2-Dichloroethene	2.639	96	42231	19.96	ug/L		99
27) 1,1-Dicethane	3.066	63	76649	20.54	ug/L		99
28) Vinyl Acetate	3.145	86	10195	19.40	ug/L	#	91
29) DIPE	3.181	45	154396	21.15	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.169	53	67689	20.29	ug/L		95
31) ETBE	3.633	59	142865	19.74	ug/L		99
32) 2,2-Dichloropropane	3.779	77	60161	17.94	ug/L		96
33) cis-1,2-Dichloroethene	3.785	96	48389	19.94	ug/L		97
34) 2-Butanone	3.828	43	27707	21.42	ug/L		97
35) Propionitrile	3.895	54	36228	100.60	ug/L		97
36) Bromochloromethane	4.120	130	30279	20.76	ug/L		91
37) Methacrylonitrile	4.120	67	19420	19.46	ug/L		95
38) Tetrahydrofuran	4.212	42	16023	19.85	ug/L		99
39) Chloroform	4.273	83	77591	20.52	ug/L		97
40) 1,1,1-Trichloroethane	4.541	97	62663	19.15	ug/L		98

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4990.D  
 Acq On : 16 Feb 2018 11:29 am  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:48:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	135421	19.41	ug/L	99
43) Cyclohexane	4.638	41	46852	21.63	ug/L	96
45) Carbontetrachloride	4.840	121	15403	16.98	ug/L	91
46) 1,1-Dichloropropene	4.846	75	57254	19.64	ug/L	95
48) Benzene	5.218	78	167071	19.81	ug/L	98
49) 1,2-Dichloroethane	5.254	62	63685	20.07	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	49094	313.93	ug/L	94
51) n-Heptane	5.803	43	54906	21.74	ug/L	95
52) 1-Butanol	6.388	56	70207	714.75	ug/L	97
53) Trichloroethene	6.303	130	45746	19.53	ug/L	99
54) Methylcyclohexane	6.571	55	63909	20.84	ug/L	96
55) 1,2-Diclpropane	6.608	63	45366	19.67	ug/L	92
56) Dibromomethane	6.766	93	27896	19.71	ug/L	97
57) 1,4-Dioxane	6.876	88	14401	388.72	ug/L	93
58) Methyl Methacrylate	6.888	69	33822	18.53	ug/L	97
59) Bromodichloromethane	7.028	83	56555	18.99	ug/L	99
60) 2-Nitropropane	7.339	41	20132	29.45	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	13201	16.09	ug/L	95
62) cis-1,3-Dichloropropene	7.626	75	70420	18.69	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	51179	19.50	ug/L	96
65) Toluene	8.028	91	180588	19.60	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	61277	17.60	ug/L	95
67) Ethyl Methacrylate	8.510	69	59922	18.55	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	39622	19.30	ug/L	99
71) Tetrachloroethene	8.674	164	34401	18.43	ug/L	99
72) 2-Hexanone	8.869	43	37407	19.95	ug/L	97
73) 1,3-Dichloropropane	8.717	76	70753	20.02	ug/L	98
74) Dibromochloromethane	8.967	129	40821	17.77	ug/L	99
75) N-Butyl Acetate	9.058	43	77989	18.32	ug/L	98
76) 1,2-Dibromoethane	9.064	107	39883	19.34	ug/L	98
77) Chlorobenzene	9.613	112	121517	19.69	ug/L	97
78) 1,1,1,2-Tetrachloroethane	9.711	131	41383	18.48	ug/L	96
79) Ethylbenzene	9.753	106	62579	19.31	ug/L	96
80) (m+p)Xylene	9.875	106	157518	38.82	ug/L	98
81) o-Xylene	10.253	106	77041	19.18	ug/L	98
82) Styrene	10.265	104	133442	19.23	ug/L	97
83) Bromoform	10.412	173	25052	16.47	ug/L	92
84) Isopropylbenzene	10.613	105	195022	18.78	ug/L	100
85) Cyclohexanone	10.668	55	183863	398.07	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.936	53	14751	19.80	ug/L	86
88) 1,1,2,2-Tetrachloroethane	10.887	83	52993	18.66	ug/L	99
89) Bromobenzene	10.851	156	53110	19.98	ug/L	96
90) 1,2,3-Trichloropropane	10.906	110	17234	19.05	ug/L	98
91) n-Propylbenzene	10.985	91	230159	19.76	ug/L	99
92) 2-Chlorotoluene	11.040	91	147543	21.01	ug/L	99
93) 4-Chlorotoluene	11.137	91	170100	20.26	ug/L	98
94) 1,3,5-Trimethylbenzene	11.149	105	169800	19.92	ug/L	98
95) tert-Butylbenzene	11.424	119	141892	19.05	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	174145	20.16	ug/L	99
97) sec-Butylbenzene	11.613	105	204658	18.72	ug/L	99
98) p-Isopropyltoluene	11.741	119	181342	19.29	ug/L	99
99) 1,3-Dclbenz	11.686	146	103678	20.15	ug/L	99
100) 1,4-Dclbenz	11.759	146	103634	19.64	ug/L	95
101) n-Butylbenzene	12.082	91	167234	19.44	ug/L	99
102) 1,2-Dclbenz	12.070	146	99446	19.91	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	9787	14.99	ug/L	89



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4990.D  
 Acq On : 16 Feb 2018 11:29 am  
 Operator : F. NAEGLER  
 Sample : LCS Inst : MSVOA14  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 16 11:48:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	83617	20.28	ug/L	99
105) 1,2,4-Tcbenzene	13.368	180	69278	17.98	ug/L	100
106) Hexachlorobt	13.515	225	33539	16.31	ug/L	98
107) Naphthalen	13.551	128	142263	15.23	ug/L	98
108) 1,2,3-Tclbenzene	13.746	180	57326	15.78	ug/L	99

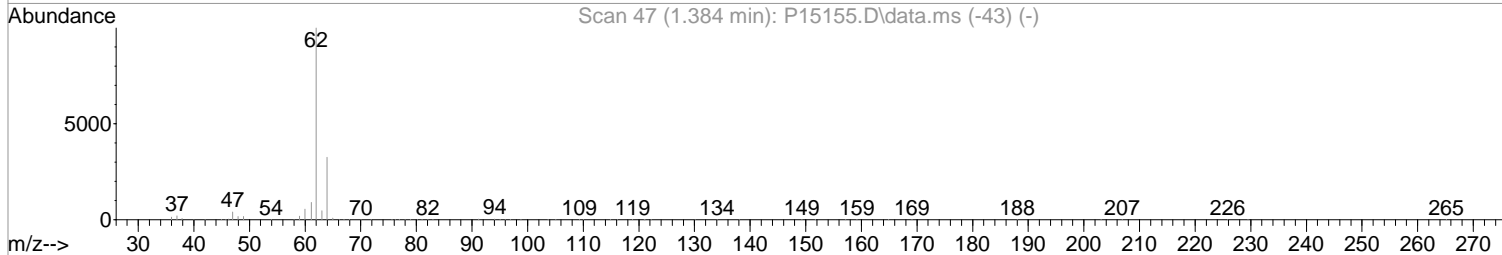
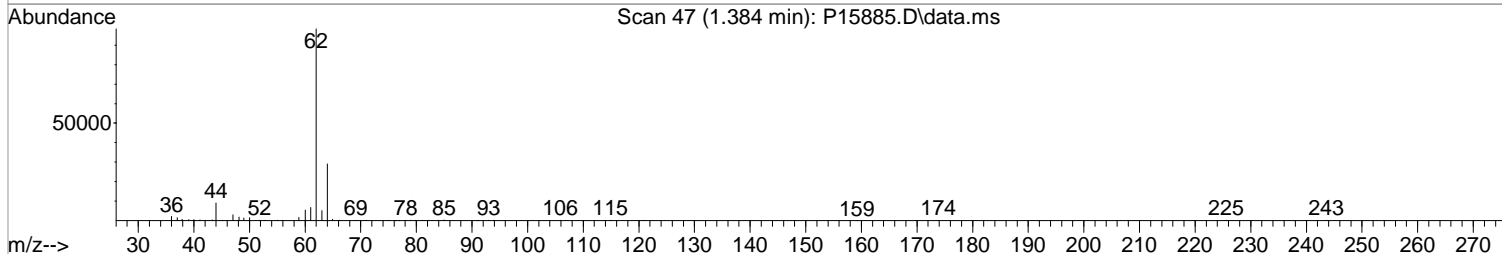
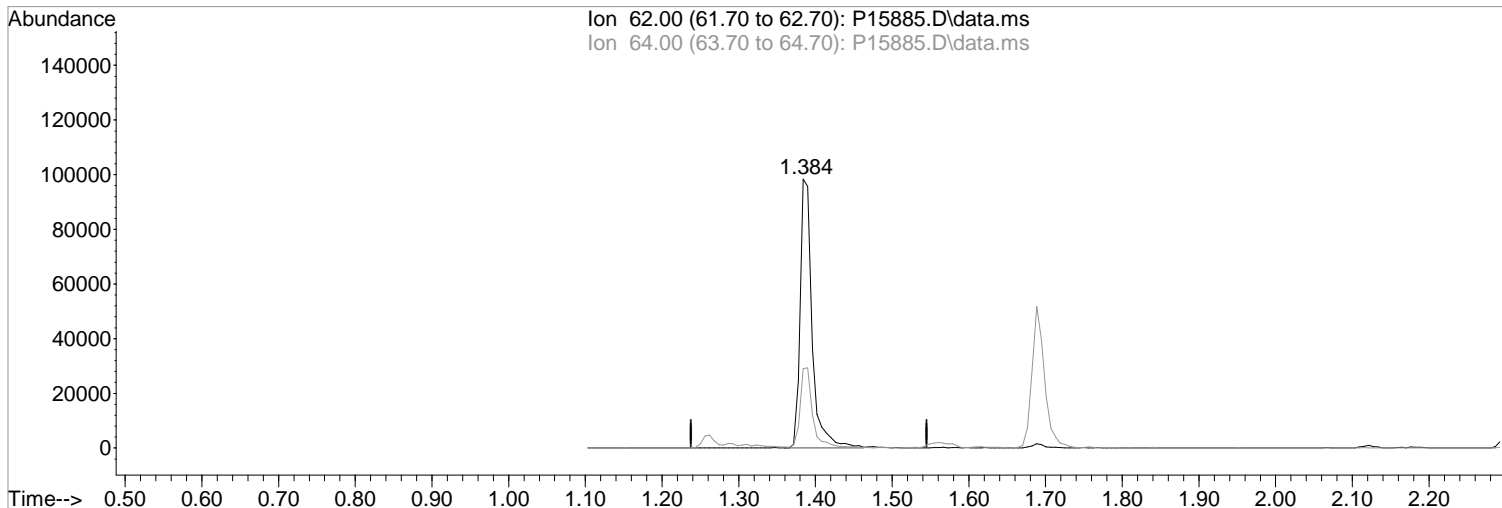
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15885.D  
Acq On : 20 Feb 2018 11:22 am  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:39:55 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15885.D\data.ms

(4) Vinyl Chloride (P)  
1.384min (-0.000) 22.47 ppb m  
response 107674

Manual Integration:

After

Peak not found.

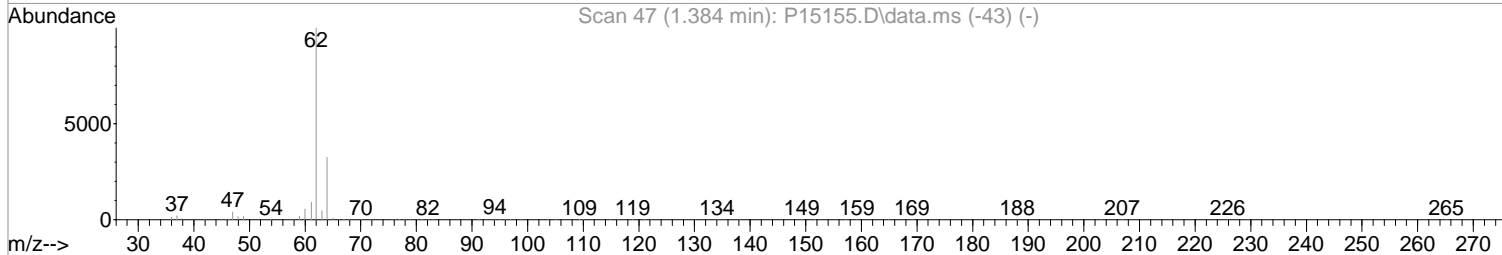
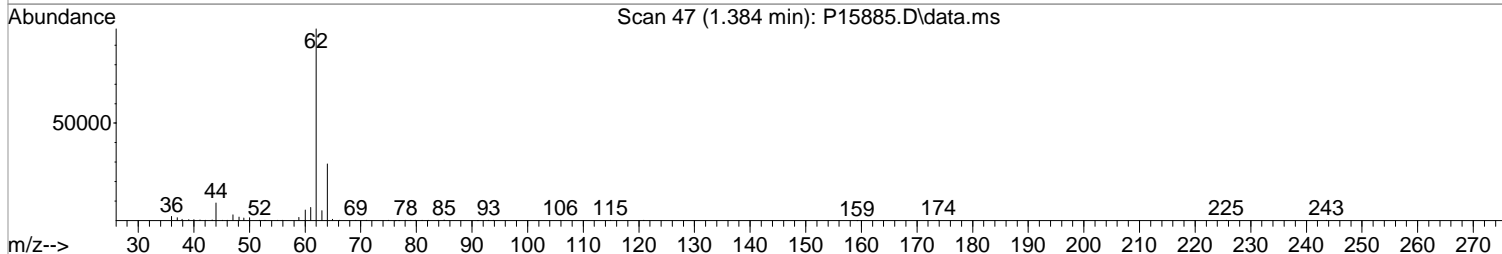
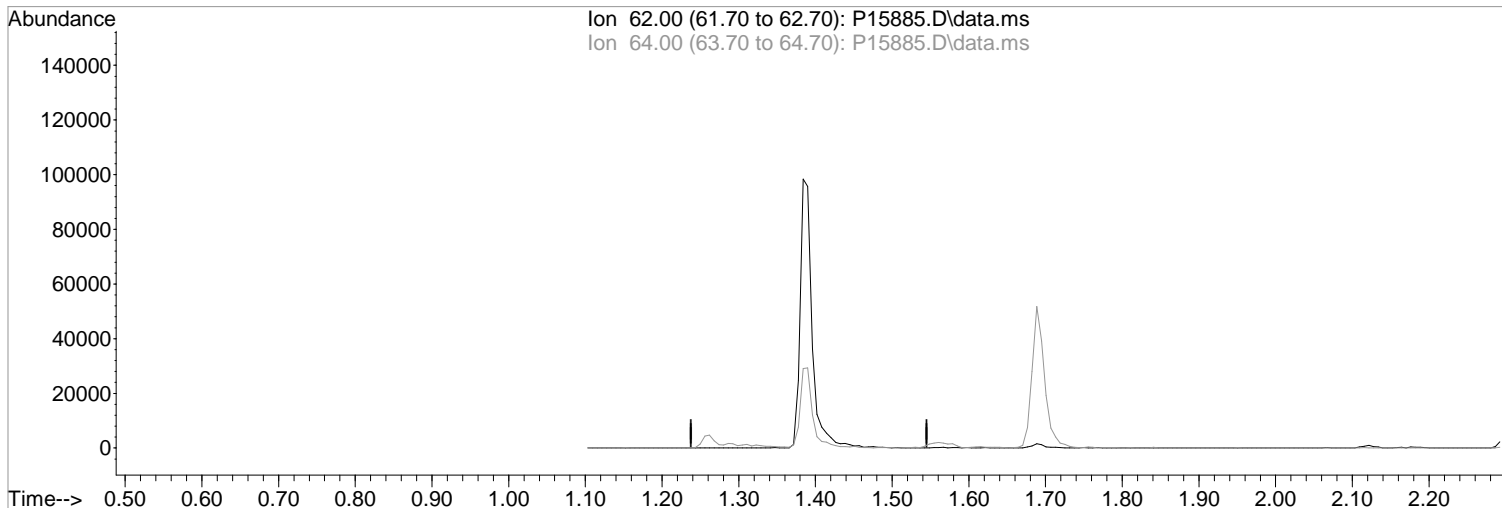
02/20/18

Ion	Exp%	Act%
62.00	100	100
64.00	32.80	29.57
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15885.D  
Acq On : 20 Feb 2018 11:22 am  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:39:55 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15885.D\data.ms

(4) Vinyl Chloride (P)

1.384min (-1.384) 0.00 ppb  
response 0

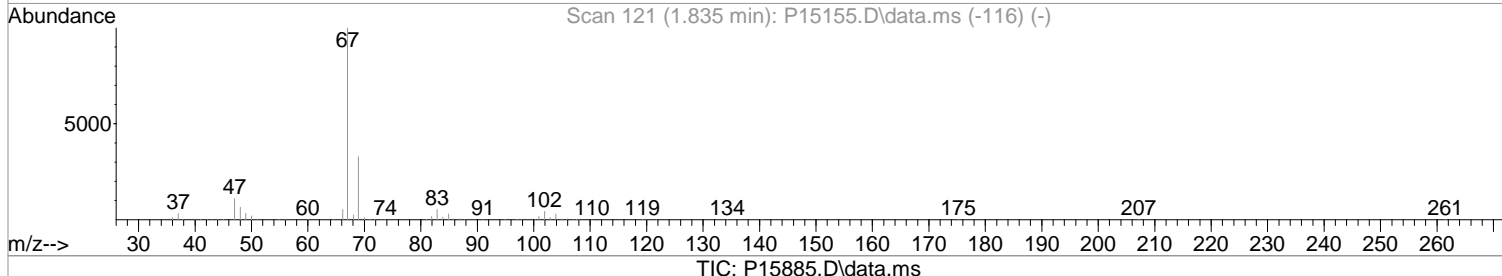
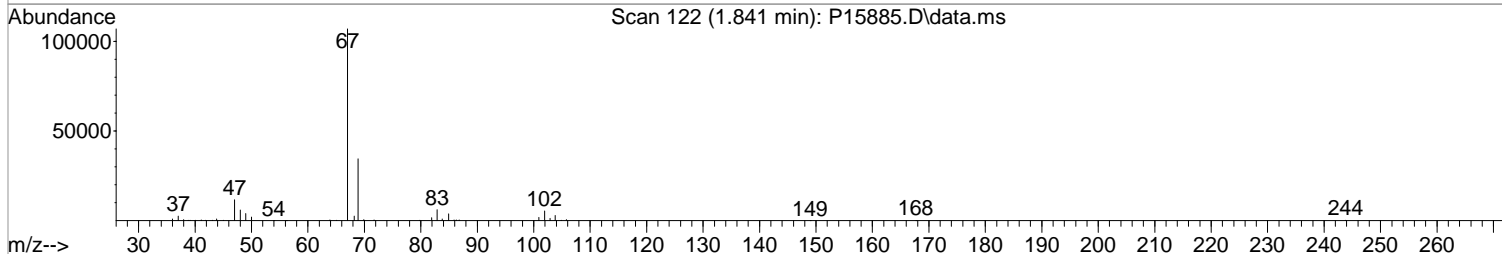
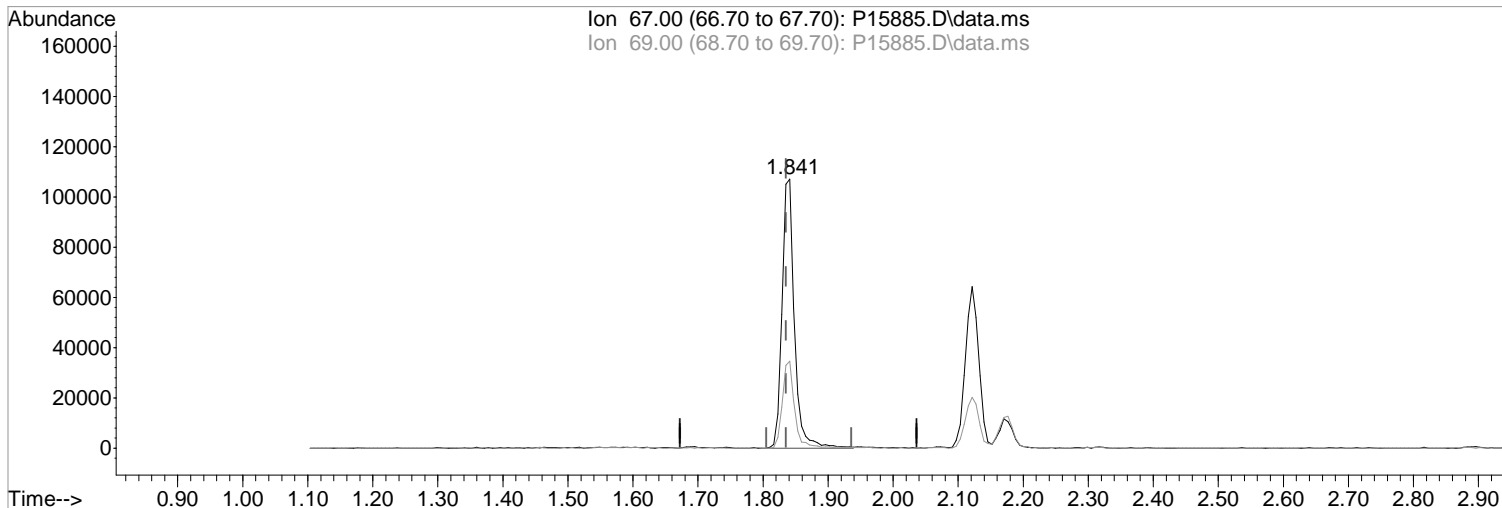
Ion	Exp%	Act%
62.00	100	0.00
64.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:  
Before  
02/20/18

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15885.D  
Acq On : 20 Feb 2018 11:22 am  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:39:55 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(7) Freon 21  
1.841min (+0.006) 22.81 ppb m  
response 141111

Manual Integration:

After

Peak not found.

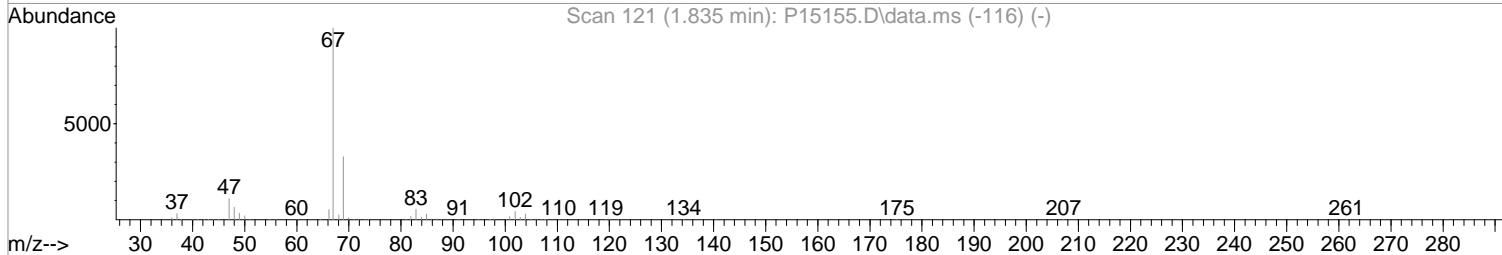
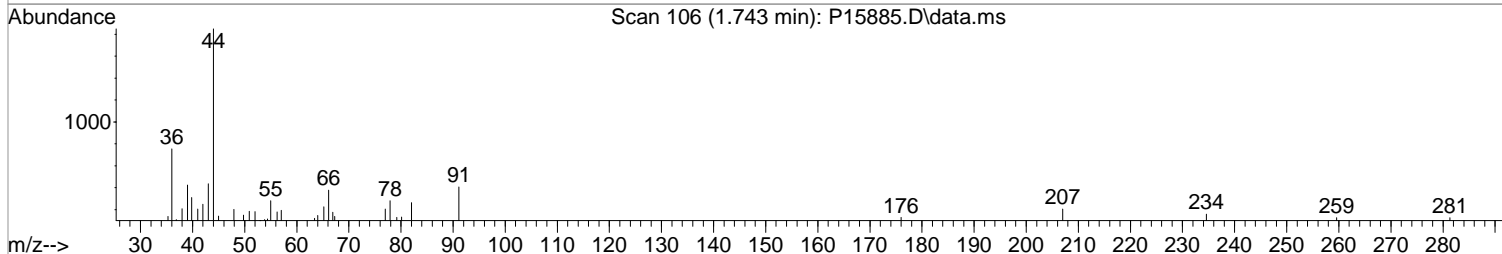
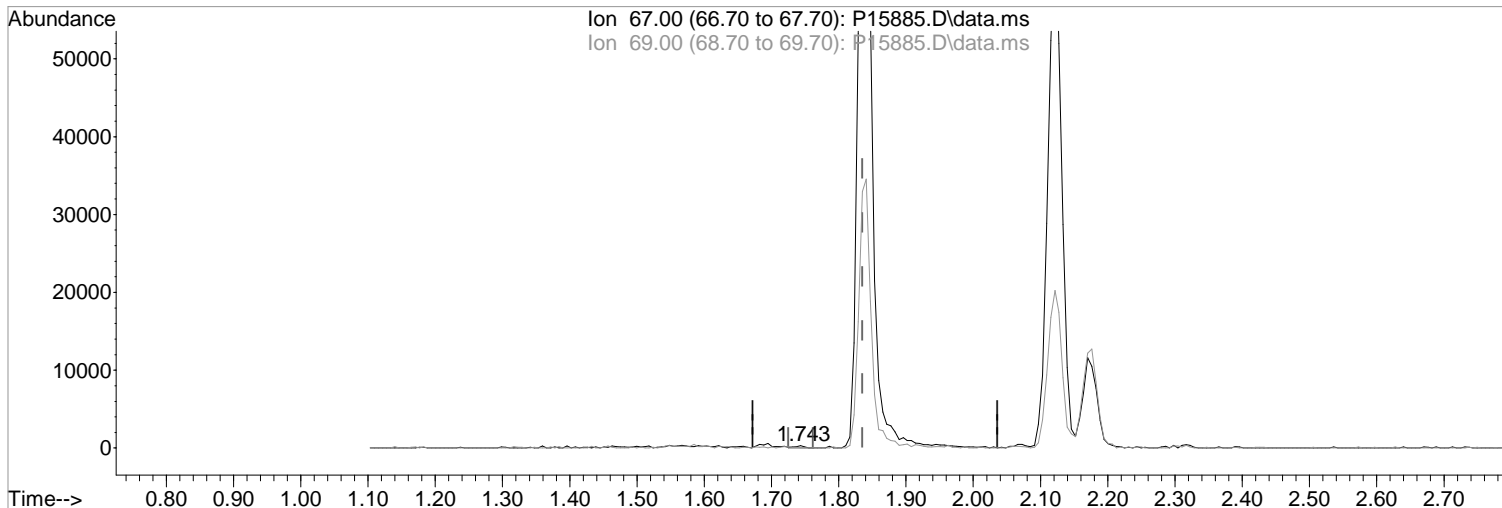
02/20/18

Ion	Exp%	Act%
67.00	100	100
69.00	32.90	32.27
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15885.D  
Acq On : 20 Feb 2018 11:22 am  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:39:55 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15885.D\data.ms

(7) Freon 21

Manual Integration:

1.743min (-0.092) 0.04 ppb

Before

response 276

Ion	Exp%	Act%
67.00	100	100
69.00	32.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

02/20/18

Data Path : I:\ACQUDATA\msvoal2\Data\022018\  
 Data File : P15885.D  
 Acq On : 20 Feb 2018 11:22 am  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:40:29 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.383	168	323583	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.474	114	535714	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	482503	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	242168	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	159343	50.10	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.20%
48) surr1,1,2-dichloroetha...	5.767	65	219496	50.36	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	100.72%
65) SURR3,Toluene-d8	8.291	98	721420	50.79	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	101.58%
70) SURR2,BFB	10.864	95	272988	49.68	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	99.36%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	81038	20.59	ppb	98
3) Chloromethane	1.311	50	115266	23.43	ppb	98
4) Vinyl Chloride	1.384	62	107674m	22.47	ppb	
5) Bromomethane	1.609	94	73116	18.88	ppb	98
6) Chloroethane	1.689	64	58932	19.70	ppb	97
7) Freon 21	1.841	67	141111m	22.81	ppb	
8) Trichlorofluoromethane	1.884	101	105120	22.76	ppb	99
9) Diethyl Ether	2.121	59	73005	22.71	ppb	95
10) Freon 123a	2.121	67	92638	23.71	ppb	99
11) Freon 123	2.176	83	105037	23.23	ppb	97
12) Acrolein	2.219	56	33802	35.33	ppb	91
13) 1,1-Diclcethene	2.304	96	66263	19.94	ppb	98
14) Freon 113	2.310	101	64825	20.64	ppb	100
15) Acetone	2.353	43	43014	21.80	ppb	97
16) 2-Propanol	2.481	45	162117	428.24	ppb	97
17) Iodomethane	2.438	142	61881	18.72	ppb	99
18) Carbon Disulfide	2.499	76	204667	21.11	ppb	98
19) Acetonitrile	2.597	40	38464	114.18	ppb	99
20) Allyl Chloride	2.640	76	41635	23.52	ppb	94
21) Methyl Acetate	2.658	43	79352	22.52	ppb	97
22) Methylene Chloride	2.755	84	76580	21.84	ppb	98
23) TBA	2.877	59	274181	420.18	ppb	100
24) Acrylonitrile	3.005	53	213046	112.49	ppb	98
25) Methyl-t-Butyl Ether	3.054	73	248001	20.81	ppb	98
26) trans-1,2-Dichloroethene	3.048	96	72336	21.31	ppb	96
28) 1,1-Diclcethane	3.542	63	136431	21.90	ppb	97
29) Vinyl Acetate	3.627	86	22366	22.48	ppb	# 92
30) DIPE	3.670	45	250591	21.12	ppb	94
31) 2-Chloro-1,3-Butadiene	3.664	53	123642	20.52	ppb	98
32) ETBE	4.194	59	242385	20.26	ppb	97
33) 2,2-Dichloropropane	4.365	77	114868	20.73	ppb	95
34) cis-1,2-Dichloroethene	4.377	96	82575	21.36	ppb	100
35) 2-Butanone	4.414	43	57139	23.05	ppb	99
36) Propionitrile	4.499	54	84490	104.97	ppb	93
37) Bromochloromethane	4.773	130	47156	21.08	ppb	96
38) Methacrylonitrile	4.767	67	42607	22.31	ppb	98
39) Tetrahydrofuran	4.859	42	34304	23.72	ppb	99
40) Chloroform	4.950	83	127193	20.28	ppb	95
41) 1,1,1-Trichloroethane	5.243	97	104143	19.62	ppb	98



Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15885.D  
 Acq On : 20 Feb 2018 11:22 am  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:40:29 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.090	73	230172	19.71	ppb	99
44) Cyclohexane	5.334	41	74013	21.15	ppb	99
46) Carbontetrachloride	5.523	117	79870	19.86	ppb	95
47) 1,1-Dichloropropene	5.535	75	101567	21.52	ppb	96
49) Benzene	5.852	78	315653	22.56	ppb	98
50) 1,2-Dichloroethane	5.889	62	107143	20.84	ppb	98
51) Iso-Butyl Alcohol	5.859	43	116525	410.52	ppb	97
52) n-Heptane	6.340	43	110939	23.10	ppb	99
53) 1-Butanol	6.822	56	189390	1008.41	ppb	98
54) Trichloroethene	6.797	130	77354	21.55	ppb	96
55) Methylcyclohexane	7.041	55	107553	23.04	ppb	93
56) 1,2-Diclpropane	7.084	63	81058	21.71	ppb	100
57) Dibromomethane	7.224	93	47966	21.52	ppb	96
58) 1,4-Dioxane	7.285	88	32859	445.92	ppb	96
59) Methyl Methacrylate	7.309	69	71995	20.88	ppb	98
60) Bromodichloromethane	7.450	83	92061	19.59	ppb	98
61) 2-Nitropropane	7.730	41	49579	34.17	ppb	98
62) 2-Chloroethylvinyl Ether	7.858	63	9566	11.09	ppb	91
63) cis-1,3-Dichloropropene	7.992	75	126547	21.34	ppb	97
64) 4-Methyl-2-pentanone	8.200	43	97035	21.31	ppb	100
66) Toluene	8.364	91	328974	21.64	ppb	98
67) trans-1,3-Dichloropropene	8.632	75	116402	21.07	ppb	96
68) Ethyl Methacrylate	8.779	69	125773	22.31	ppb	96
69) 1,1,2-Trichloroethane	8.821	97	72219	20.91	ppb	93
72) Tetrachloroethene	8.962	164	56097	21.07	ppb	98
73) 2-Hexanone	9.114	43	74259	20.90	ppb	93
74) 1,3-Dichloropropane	8.992	76	135827	21.91	ppb	98
75) Dibromochloromethane	9.218	129	64928	20.06	ppb	99
76) N-Butyl Acetate	9.272	43	153932	23.02	ppb	99
77) 1,2-Dibromoethane	9.315	107	73801	21.47	ppb	96
78) Chlorobenzene	9.815	112	209578	22.17	ppb	98
79) 3-CBTF	9.833	180	102581	20.35	ppb	96
80) 4-CBTF	9.888	180	95029	20.63	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.900	131	68390	20.35	ppb	98
82) Ethylbenzene	9.931	106	107902	20.68	ppb	100
83) (m+p)Xylene	10.047	106	269150	42.61	ppb	97
84) o-Xylene	10.406	106	133889	21.17	ppb	99
85) Styrene	10.419	104	227601	21.38	ppb	100
87) Bromoform	10.565	173	42322	20.04	ppb	97
88) 2-CBTF	10.650	180	103319	22.03	ppb	95
89) Isopropylbenzene	10.742	105	343680	21.60	ppb	99
90) Cyclohexanone	10.797	55	379434	313.48	ppb	98
91) trans-1,4-Dichloro-2-B...	11.047	53	29143	23.11	ppb	90
92) 1,1,2,2-Tetrachloroethane	10.998	83	105004	21.87	ppb	97
93) Bromobenzene	10.986	156	86883	22.30	ppb	# 89
94) 1,2,3-Trichloropropane	11.028	110	33965	21.77	ppb	96
95) n-Propylbenzene	11.095	91	411177	22.23	ppb	98
96) 2-Chlorotoluene	11.156	91	262245	22.86	ppb	96
97) 3-Chlorotoluene	11.211	91	257878	21.32	ppb	94
98) 4-Chlorotoluene	11.254	91	296596	22.38	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	293567	22.06	ppb	98
100) tert-Butylbenzene	11.522	119	243900	21.23	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	296646	22.26	ppb	100
102) 3,4-DCBTF	11.620	214	87766	23.57	ppb	98
103) sec-Butylbenzene	11.705	105	373621	22.10	ppb	99
104) p-Isopropyltoluene	11.827	119	309159	21.73	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15885.D  
 Acq On : 20 Feb 2018 11:22 am  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

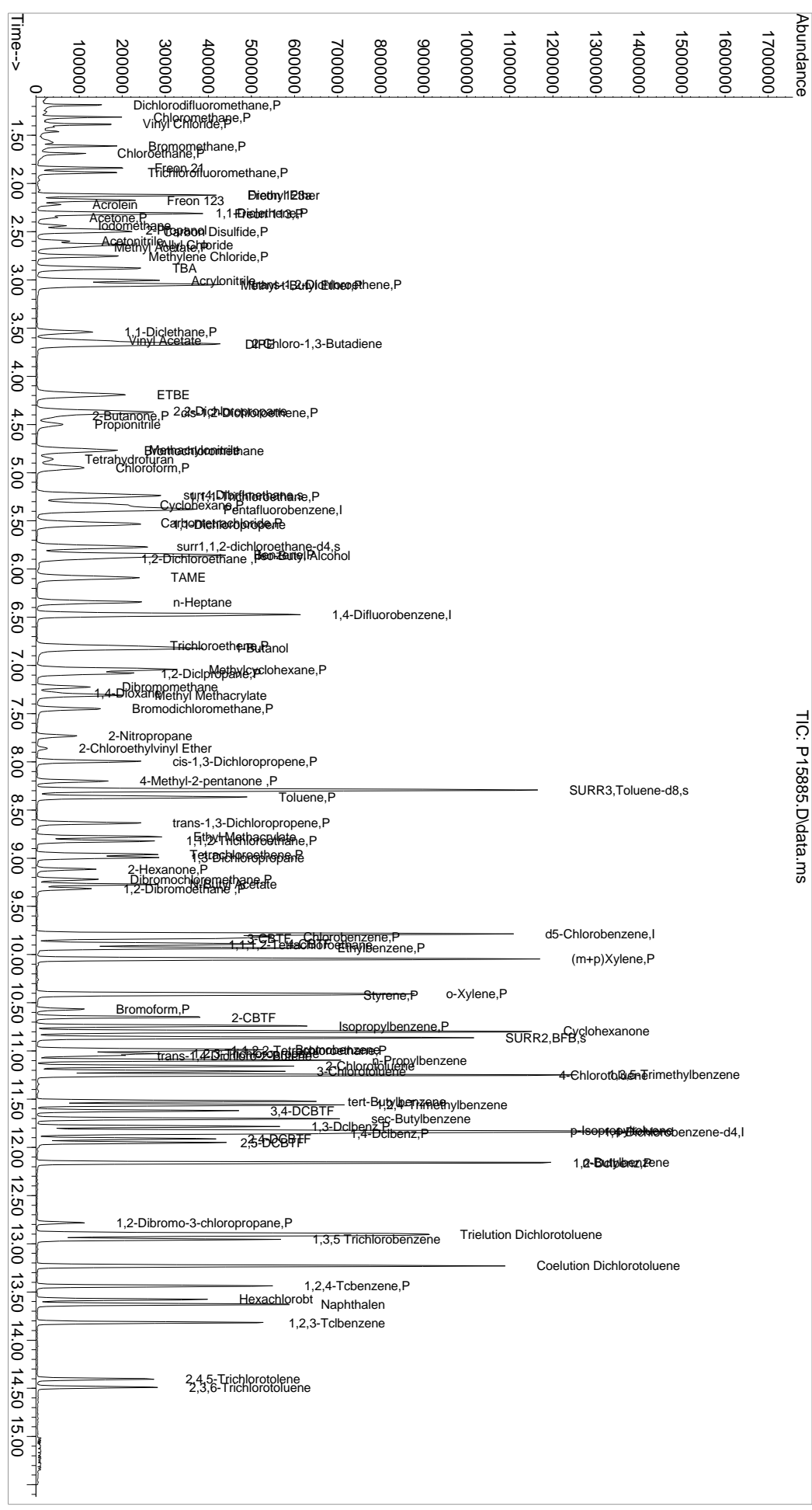
Inst : MSVOA-12

Quant Time: Feb 20 11:40:29 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	172010	23.22	ppb	98
106) 1,4-Dclbenz	11.857	146	175786	22.61	ppb	98
107) 2,4-DCBTF	11.912	214	77624	21.86	ppb	100
108) 2,5-DCBTF	11.955	214	87590	23.06	ppb	90
109) n-Butylbenzene	12.156	91	301274	22.71	ppb	99
110) 1,2-Dclbenz	12.162	146	170652	23.08	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.784	157	22706	18.27	ppb	90
112) Trielution Dichlorotol...	12.900	125	471851	64.89	ppb	100
113) 1,3,5 Trichlorobenzene	12.955	180	130403	22.66	ppb	93
114) Coelution Dichlorotoluene	13.229	125	348335	45.17	ppb	100
115) 1,2,4-Tcbenzene	13.436	180	134072	24.95	ppb	99
116) Hexachlorobt	13.576	225	56169	22.52	ppb	98
117) Naphthalen	13.631	128	373874	25.22	ppb	98
118) 1,2,3-Tclbenzene	13.820	180	126655	24.26	ppb	97
119) 2,4,5-Trichlorotolene	14.406	159	53833	17.00	ppb	99
120) 2,3,6-Trichlorotoluene	14.491	159	51823	17.35	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

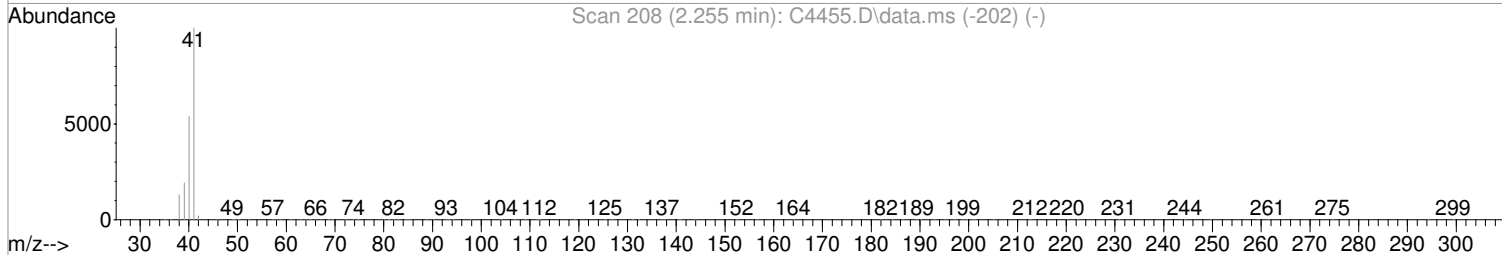
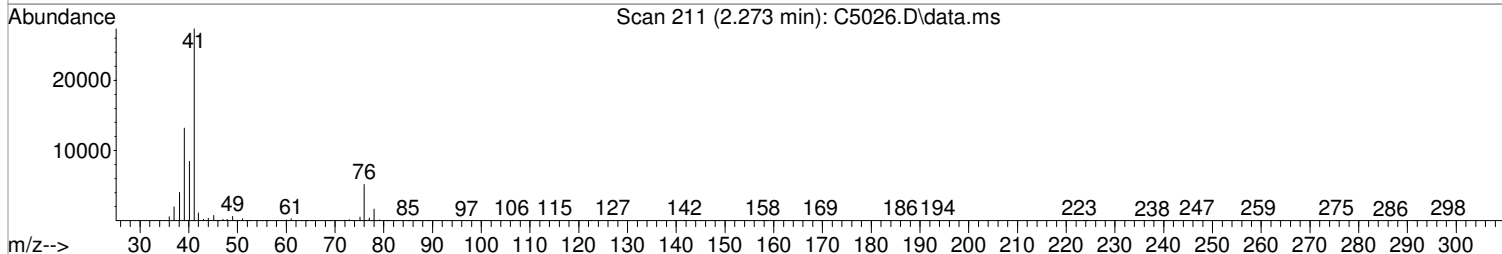
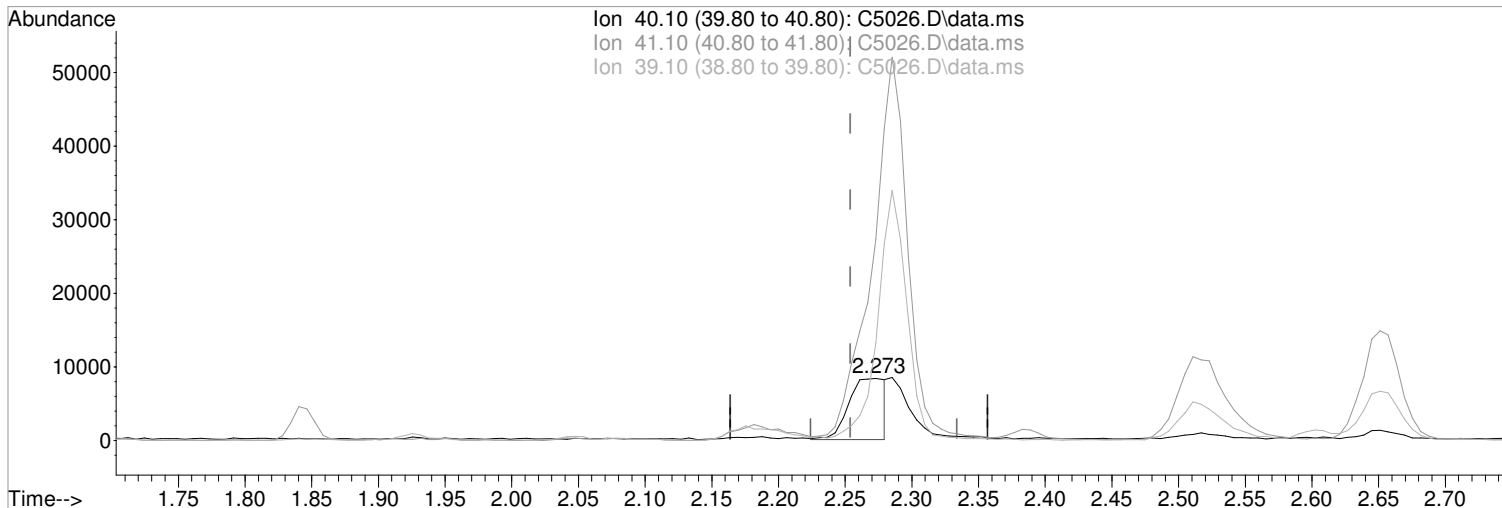
Data Path : I:\ACQDATA\msvoa12\Data\022018\  
 Data File : P15885.D  
 Acq On : 20 Feb 2018 11:22 am  
 Operator : K.Ruest  
 Sample : LCS  
 Inst : MSVOA-12  
 PALS Vial : 1 Sample Multiplier: 1  
 Quant Time: Feb 20 11:40:29 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QIast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5026.D  
Acq On : 17 Feb 2018 3:06 pm  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 15:25:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C5026.D\data.ms

(19) Acetonitrile  
2.273min (+0.019) 110.10 ug/L m  
response 15834

Manual Integration:  
After  
Poor integration.

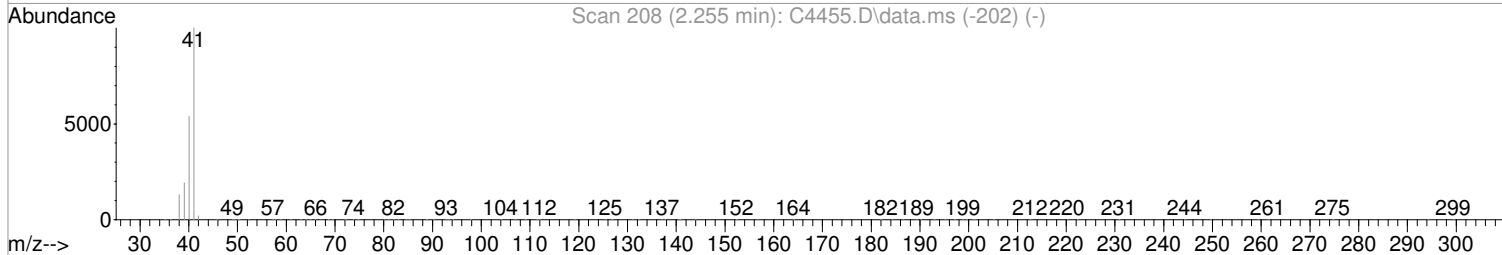
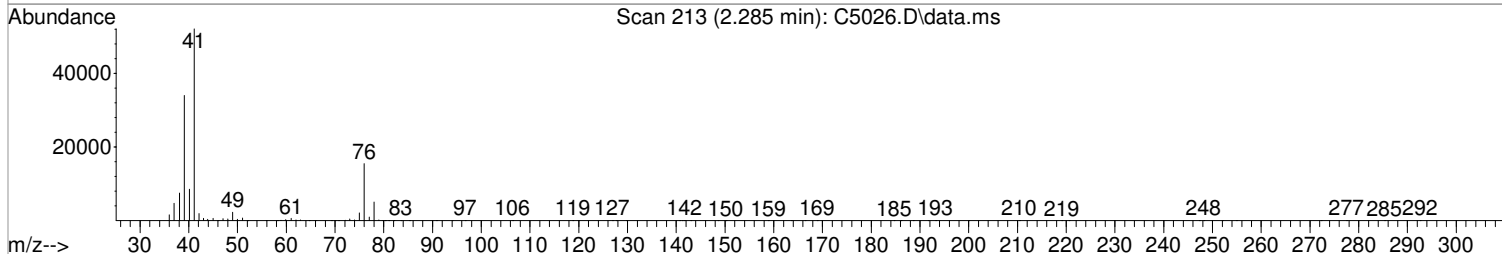
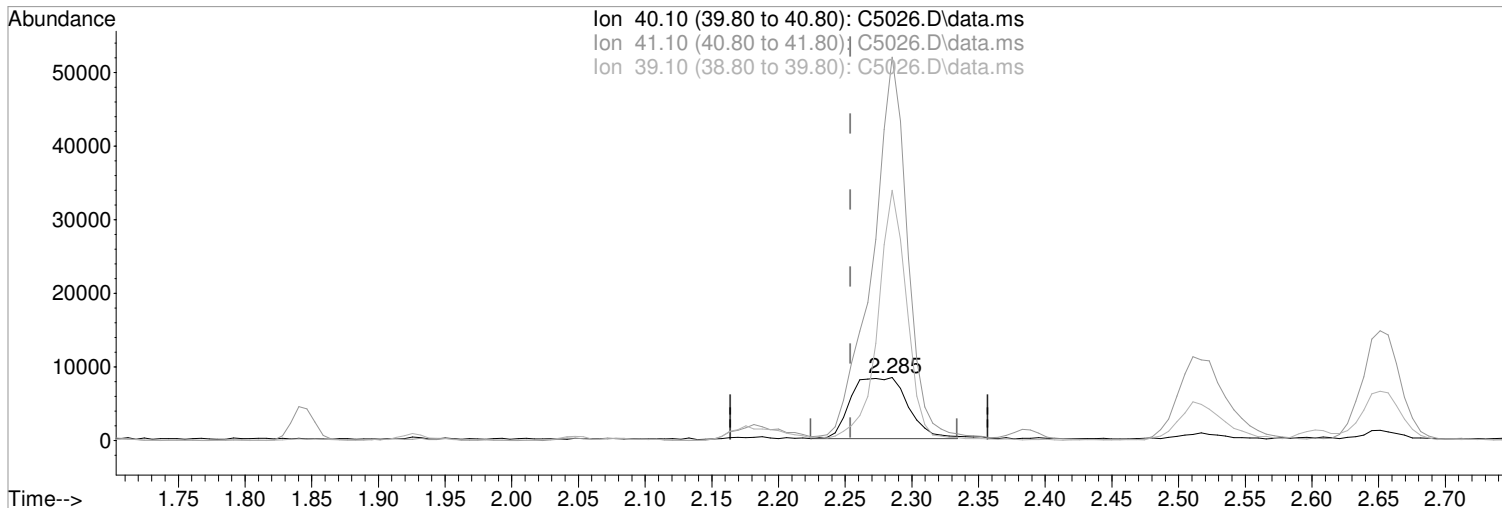
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	323.89#
39.10	36.10	156.48#
0.00	0.00	0.00

02/17/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5026.D  
Acq On : 17 Feb 2018 3:06 pm  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 15:25:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.031) 171.02 ug/L  
response 24595

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	610.19#
39.10	36.10	398.17#
0.00	0.00	0.00

02/17/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5026.D  
 Acq On : 17 Feb 2018 3:06 pm  
 Operator : F. NAEGLER  
 Sample : LCS Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 17 15:25:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	211400	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	323778	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	288943	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	150577	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	99335	49.27	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.54%		
47) SURR1,1,2-dichloroetha...	5.114	65	121488	50.30	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	100.60%		
64) SURR3,Toluene-d8	7.949	98	391123	50.73	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.46%		
69) SURR2,BFB	10.735	95	152891	49.15	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	98.30%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	47724	17.66	ug/L	98
3) Chloromethane	1.145	50	54339	16.60	ug/L	100
4) Vinyl Chloride	1.212	62	49085	19.60	ug/L	98
5) Bromomethane	1.414	94	27338	16.54	ug/L	96
6) Chloroethane	1.474	64	28211	20.48	ug/L	100
7) Freon 21	1.602	67	80078	20.99	ug/L	99
8) Trichlorofluoromethane	1.645	101	56912	19.85	ug/L	97
9) Diethyl Ether	1.846	59	40012	21.73	ug/L	98
10) Freon 123a	1.846	67	55062	22.60	ug/L	99
11) Freon 123	1.889	83	60363	21.57	ug/L	99
12) Acrolein	1.932	56	14787	32.33	ug/L	99
13) 1,1-Dicethene	2.005	96	34210	18.41	ug/L	96
14) Freon 113	2.011	101	34243	18.61	ug/L	98
15) Acetone	2.048	43	18572	19.39	ug/L	98
16) 2-Propanol	2.182	45	74307	340.23	ug/L	96
17) Iodomethane	2.115	142	49733	35.73	ug/L	99
18) Carbon Disulfide	2.169	76	125028	19.76	ug/L	99
19) Acetonitrile	2.273	40	15834m	110.10	ug/L	
20) Allyl Chloride	2.285	76	21455	23.77	ug/L #	91
21) Methyl Acetate	2.310	43	34248	18.78	ug/L	98
22) Methylene Chloride	2.389	84	43589	19.80	ug/L	98
23) TBA	2.517	59	129845	333.34	ug/L	98
24) Acrylonitrile	2.602	53	86228	99.61	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	135017	19.79	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	41963	19.80	ug/L	98
27) 1,1-Dicethane	3.066	63	75498	20.20	ug/L	98
28) Vinyl Acetate	3.145	86	9802	18.62	ug/L #	88
29) DIPE	3.181	45	156004	21.34	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	74384	22.26	ug/L	97
31) ETBE	3.633	59	142792	19.70	ug/L	98
32) 2,2-Dichloropropane	3.779	77	60220	17.93	ug/L	99
33) cis-1,2-Dichloroethene	3.779	96	48142	19.81	ug/L	97
34) 2-Butanone	3.828	43	25948	20.03	ug/L	99
35) Propionitrile	3.889	54	35244	97.72	ug/L	99
36) Bromochloromethane	4.120	130	29650	20.30	ug/L	96
37) Methacrylonitrile	4.120	67	18241	18.25	ug/L	96
38) Tetrahydrofuran	4.212	42	15183	18.78	ug/L	96
39) Chloroform	4.273	83	77501	20.47	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	60646	18.50	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5026.D  
 Acq On : 17 Feb 2018 3:06 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 15:25:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	135385	19.38	ug/L	97
43) Cyclohexane	4.638	41	44646	20.46	ug/L	97
45) Carbontetrachloride	4.840	121	15178	16.61	ug/L	85
46) 1,1-Dichloropropene	4.852	75	55362	18.85	ug/L	97
48) Benzene	5.218	78	165841	19.52	ug/L	98
49) 1,2-Dichloroethane	5.260	62	63922	19.99	ug/L	99
50) Iso-Butyl Alcohol	5.266	43	45885	291.22	ug/L	98
51) n-Heptane	5.803	43	54229	21.33	ug/L	95
52) 1-Butanol	6.388	56	70158	708.92	ug/L	97
53) Trichloroethene	6.303	130	46445	19.68	ug/L	97
54) Methylcyclohexane	6.571	55	61961	20.05	ug/L	99
55) 1,2-Diclpropane	6.608	63	46654	20.08	ug/L	99
56) Dibromomethane	6.766	93	27725	19.45	ug/L	95
57) 1,4-Dioxane	6.876	88	14415	386.19	ug/L	82
58) Methyl Methacrylate	6.888	69	32910	17.90	ug/L	99
59) Bromodichloromethane	7.028	83	56416	18.81	ug/L	98
60) 2-Nitropropane	7.339	41	19978	29.01	ug/L	96
61) 2-Chloroethylvinyl Ether	7.492	63	14151	17.12	ug/L	94
62) cis-1,3-Dichloropropene	7.626	75	70997	18.71	ug/L	98
63) 4-Methyl-2-pentanone	7.863	43	47231	17.86	ug/L	98
65) Toluene	8.028	91	176980	19.07	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	63251	18.04	ug/L	98
67) Ethyl Methacrylate	8.510	69	60045	18.45	ug/L	98
68) 1,1,2-Trichloroethane	8.528	97	40711	19.68	ug/L	99
71) Tetrachloroethene	8.674	164	32492	17.02	ug/L	98
72) 2-Hexanone	8.869	43	35044	18.28	ug/L	97
73) 1,3-Dichloropropane	8.717	76	71187	19.70	ug/L	99
74) Dibromochloromethane	8.967	129	41268	17.56	ug/L	100
75) N-Butyl Acetate	9.058	43	73359	16.85	ug/L	99
76) 1,2-Dibromoethane	9.058	107	39723	18.84	ug/L	97
77) Chlorobenzene	9.613	112	120827	19.15	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	41810	18.26	ug/L	98
79) Ethylbenzene	9.747	106	60849	18.37	ug/L	96
80) (m+p)Xylene	9.875	106	154764	37.30	ug/L	97
81) o-Xylene	10.253	106	76231	18.56	ug/L	93
82) Styrene	10.265	104	133565	18.82	ug/L	99
83) Bromoform	10.418	173	24535	15.78	ug/L	98
84) Isopropylbenzene	10.613	105	190645	17.96	ug/L	99
85) Cyclohexanone	10.662	55	171253	362.59	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.936	53	14769	19.39	ug/L	88
88) 1,1,2,2-Tetrachloroethane	10.887	83	51574	17.96	ug/L	100
89) Bromobenzene	10.851	156	52574	19.55	ug/L	94
90) 1,2,3-Trichloropropane	10.906	110	16727	18.28	ug/L	92
91) n-Propylbenzene	10.985	91	223664	18.98	ug/L	99
92) 2-Chlorotoluene	11.040	91	143984	20.27	ug/L	99
93) 4-Chlorotoluene	11.137	91	166273	19.58	ug/L	98
94) 1,3,5-Trimethylbenzene	11.149	105	165635	19.21	ug/L	100
95) tert-Butylbenzene	11.424	119	137910	18.30	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	173045	19.81	ug/L	99
97) sec-Butylbenzene	11.613	105	200046	18.09	ug/L	100
98) p-Isopropyltoluene	11.741	119	179803	18.92	ug/L	98
99) 1,3-Dclbenz	11.686	146	103802	19.95	ug/L	99
100) 1,4-Dclbenz	11.765	146	104586	19.60	ug/L	99
101) n-Butylbenzene	12.082	91	165299	19.00	ug/L	99
102) 1,2-Dclbenz	12.070	146	99975	19.79	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	9679	14.66	ug/L	96



Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5026.D  
Acq On : 17 Feb 2018 3:06 pm  
Operator : F. NAEGLER  
Sample : LCS Inst : MSVOA14  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 17 15:25:42 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	84284	20.21	ug/L	100
105) 1,2,4-Tcbenzene	13.368	180	70321	18.04	ug/L	99
106) Hexachlorobt	13.515	225	33380	16.04	ug/L	98
107) Naphthalen	13.557	128	148052	15.67	ug/L	100
108) 1,2,3-Tclbenzene	13.746	180	59431	16.18	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5031.D  
 Acq On : 17 Feb 2018 5:03 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-012MS|0.79 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 10:30:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	196810	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	300829	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	259224	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	121591	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) SURR4,Dibrflmethane	4.535	113	92155	49.19	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.38%			
47) SURR1,1,2-dichloroetha...	5.114	65	111379	49.64	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery =	99.28%			
64) SURR3,Toluene-d8	7.949	98	361886	50.52	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.04%			
69) SURR2,BFB	10.735	95	131185	45.39	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery =	90.78%			
<b>Target Compounds</b>							
							<b>Qvalue</b>
2) Dichlorodifluoromethane	1.036	85	117834	46.85	ug/L		97
3) Chloromethane	1.145	50	131563	43.17	ug/L		97
4) Vinyl Chloride	1.212	62	126878	54.41	ug/L		99
5) Bromomethane	1.407	94	48622	32.62	ug/L		99
6) Chloroethane	1.468	64	71100	55.44	ug/L		98
7) Freon 21	1.603	67	203038	57.17	ug/L		98
8) Trichlorofluoromethane	1.639	101	153604	57.54	ug/L		98
9) Diethyl Ether	1.846	59	86619	50.53	ug/L		99
10) Freon 123a	1.840	67	140581	61.97	ug/L		92
11) Freon 123	1.889	83	150739	57.86	ug/L		97
12) Acrolein	1.926	56	8275	19.43	ug/L		94
13) 1,1-Diclcethene	2.005	96	90601	52.37	ug/L		99
14) Freon 113	2.011	101	96815	56.51	ug/L		100
15) Acetone	2.042	43	176911	198.38	ug/L		97
16) 2-Propanol	2.170	45	152272	748.89	ug/L		96
17) Iodomethane	2.115	142	118145	75.56	ug/L		98
18) Carbon Disulfide	2.170	76	266901	45.32	ug/L		99
19) Acetonitrile	2.261	40	21384	159.71	ug/L		84
20) Allyl Chloride	2.285	76	51322	61.09	ug/L		97
21) Methyl Acetate	2.310	43	116021	68.35	ug/L		99
22) Methylene Chloride	2.383	84	100799	49.17	ug/L		98
23) TBA	2.511	59	308963	851.98	ug/L		97
24) Acrylonitrile	2.602	53	168877	209.55	ug/L		97
25) Methyl-t-Butyl Ether	2.651	73	298264	46.97	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	97305	49.32	ug/L		96
27) 1,1-Diclcethane	3.060	63	184531	53.04	ug/L		99
28) Vinyl Acetate	3.145	86	3978	8.12	ug/L	#	32
29) DIPE	3.182	45	339753	49.92	ug/L		99
30) 2-Chloro-1,3-Butadiene	3.169	53	165237	53.12	ug/L		96
31) ETBE	3.633	59	319477	47.33	ug/L		98
32) 2,2-Dichloropropane	3.779	77	153497	49.08	ug/L		99
33) cis-1,2-Dichloroethene	3.785	96	108634	48.02	ug/L		96
34) 2-Butanone	3.828	43	43009	35.65	ug/L		96
35) Propionitrile	3.889	54	68203	203.12	ug/L		99
36) Bromochloromethane	4.120	130	63105	46.41	ug/L		93
37) Methacrylonitrile	4.120	67	37205	39.99	ug/L		100
38) Tetrahydrofuran	4.212	42	33912	45.05	ug/L		96
39) Chloroform	4.273	83	182490	51.77	ug/L		99
40) 1,1,1-Trichloroethane	4.547	97	160411	52.57	ug/L		97

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5031.D  
 Acq On : 17 Feb 2018 5:03 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-012MS|0.79 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 10:30:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	294237	45.24	ug/L	99
43) Cyclohexane	4.639	41	111652	55.07	ug/L	98
45) Carbontetrachloride	4.840	121	40794	48.04	ug/L	99
46) 1,1-Dichloropropene	4.852	75	140979	51.67	ug/L	96
48) Benzene	5.218	78	398383	50.47	ug/L	99
49) 1,2-Dichloroethane	5.260	62	136642	45.99	ug/L	99
50) Iso-Butyl Alcohol	5.273	43	99669	680.84	ug/L	100
51) n-Heptane	5.803	43	141347	56.79	ug/L	95
52) 1-Butanol	6.382	56	135037	1468.60	ug/L	97
53) Trichloroethene	6.303	130	105393	48.07	ug/L	98
54) Methylcyclohexane	6.571	55	150092	52.27	ug/L	98
55) 1,2-Diclpropane	6.614	63	104824	48.56	ug/L	95
56) Dibromomethane	6.766	93	57820	43.65	ug/L	97
57) 1,4-Dioxane	6.864	88	43728	1260.89	ug/L	86
58) Methyl Methacrylate	6.894	69	85384	49.97	ug/L	96
59) Bromodichloromethane	7.028	83	126888	45.52	ug/L	99
60) 2-Nitropropane	7.339	41	43937	68.66	ug/L	95
61) 2-Chloroethylvinyl Ether	7.492	63	31456	40.96	ug/L	92
62) cis-1,3-Dichloropropene	7.626	75	151036	42.83	ug/L	96
63) 4-Methyl-2-pentanone	7.870	43	103082	41.95	ug/L	98
65) Toluene	8.028	91	432182	50.12	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	123436	37.88	ug/L	96
67) Ethyl Methacrylate	8.504	69	97607	32.28	ug/L	96
68) 1,1,2-Trichloroethane	8.534	97	85516	44.50	ug/L	98
71) Tetrachloroethene	8.674	164	85851	50.14	ug/L	97
72) 2-Hexanone	8.869	43	68069	39.57	ug/L	99
73) 1,3-Dichloropropane	8.717	76	148434	45.78	ug/L	98
74) Dibromochloromethane	8.967	129	86348	40.97	ug/L	98
75) N-Butyl Acetate	9.058	43	83903	21.49	ug/L	97
76) 1,2-Dibromoethane	9.065	107	78090	41.28	ug/L	98
77) Chlorobenzene	9.613	112	254486	44.95	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	95980	46.72	ug/L	97
79) Ethylbenzene	9.753	106	144246	48.53	ug/L	94
80) (m+p)Xylene	9.875	106	358539	96.32	ug/L	99
81) o-Xylene	10.253	106	174447	47.35	ug/L	96
82) Styrene	10.266	104	270379	42.46	ug/L	98
83) Bromoform	10.418	173	50130	35.93	ug/L	98
84) Isopropylbenzene	10.613	105	463062	48.62	ug/L	99
85) Cyclohexanone	10.662	55	394664	931.41	ug/L	97
86) trans-1,4-Dichloro-2-B...	10.936	53	25734	37.65	ug/L	87
88) 1,1,2,2-Tetrachloroethane	10.887	83	103593	44.67	ug/L	99
89) Bromobenzene	10.851	156	99105	45.64	ug/L	97
90) 1,2,3-Trichloropropane	10.906	110	32738	44.30	ug/L	99
91) n-Propylbenzene	10.985	91	515441	54.17	ug/L	99
92) 2-Chlorotoluene	11.040	91	307268	53.57	ug/L	99
93) 4-Chlorotoluene	11.137	91	332161	48.43	ug/L	98
94) 1,3,5-Trimethylbenzene	11.143	105	377938	54.28	ug/L	97
95) tert-Butylbenzene	11.424	119	331688	54.51	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	366883	52.01	ug/L	99
97) sec-Butylbenzene	11.613	105	478223	53.57	ug/L	99
98) p-Isopropyltoluene	11.741	119	407152	53.04	ug/L	100
99) 1,3-Dclbenz	11.686	146	177634	42.28	ug/L	99
100) 1,4-Dclbenz	11.765	146	172134	39.95	ug/L	97
101) n-Butylbenzene	12.082	91	351701	50.07	ug/L	99
102) 1,2-Dclbenz	12.070	146	162608	39.86	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	17240	32.34	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5031.D  
 Acq On : 17 Feb 2018 5:03 pm  
 Operator : F. NAEGLER  
 Sample : R1801334-012MS|0.79 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 10:30:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	115691	34.36	ug/L	98
105) 1,2,4-Tcbenzene	13.369	180	75376	23.95	ug/L	99
106) Hexachlorobt	13.515	225	62340	37.11	ug/L	98
107) Naphthalen	13.558	128	146506	19.20	ug/L	100
108) 1,2,3-Tclbenzene	13.747	180	54130	18.25	ug/L	97

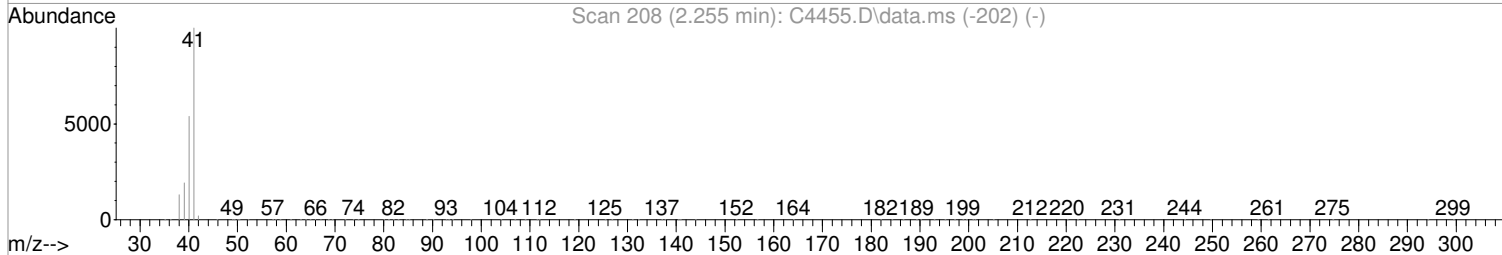
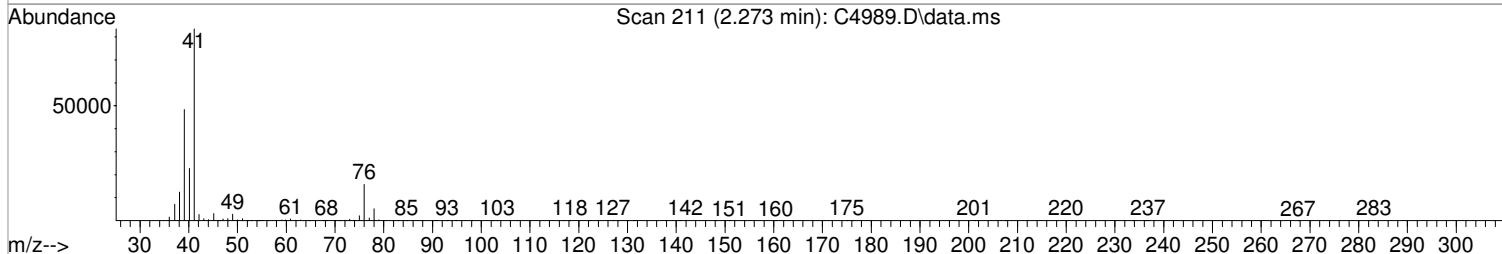
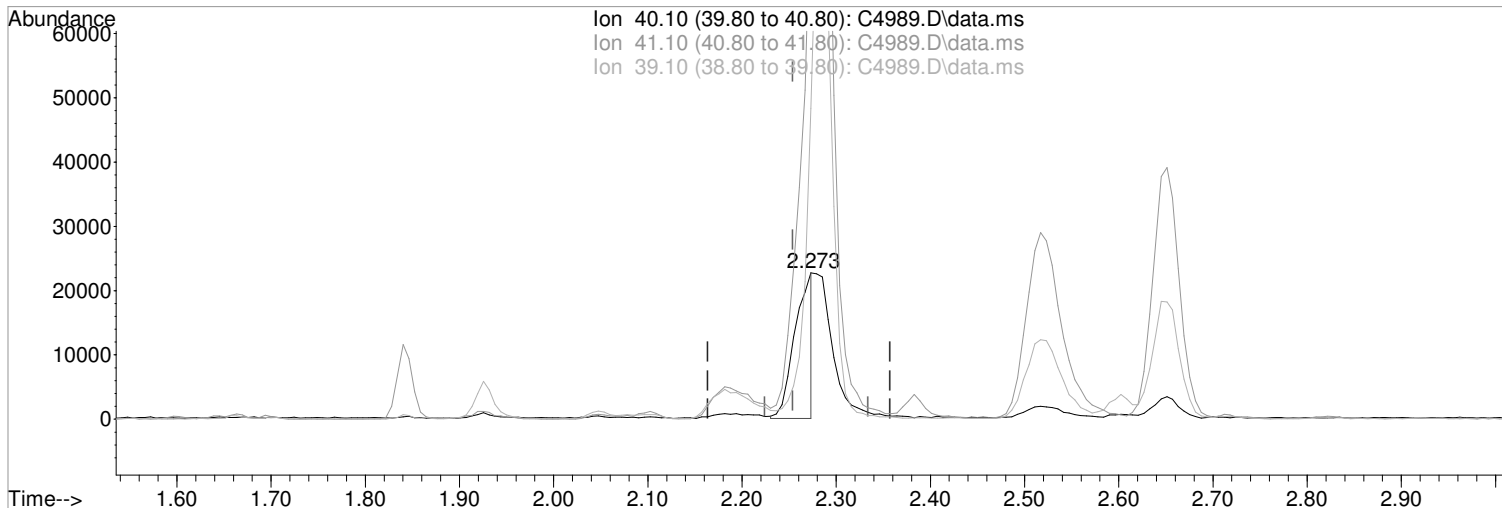
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4989.D  
Acq On : 16 Feb 2018 10:58 am  
Operator : F. NAEGLER  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:25 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.273min (+0.019) 204.60 ug/L m  
response 29910

Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	366.70#
39.10	36.10	212.36#
0.00	0.00	0.00

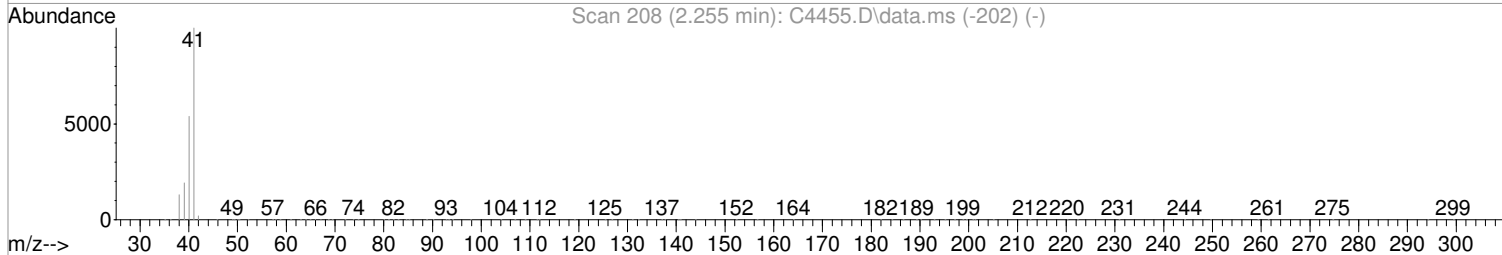
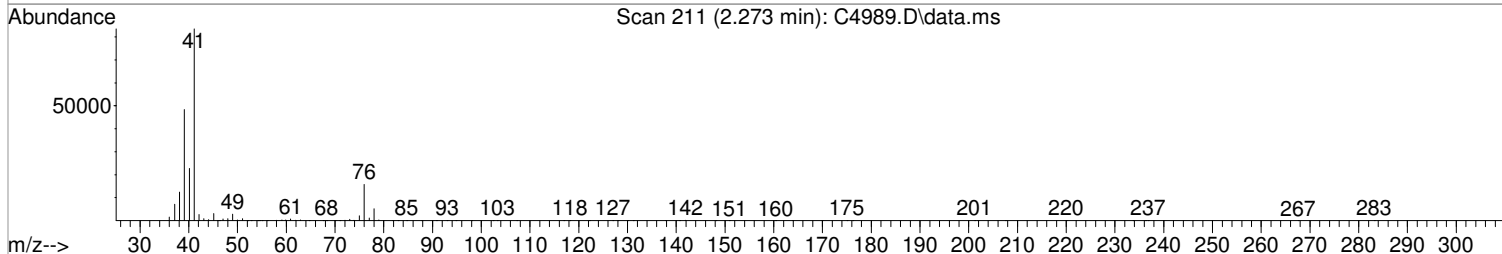
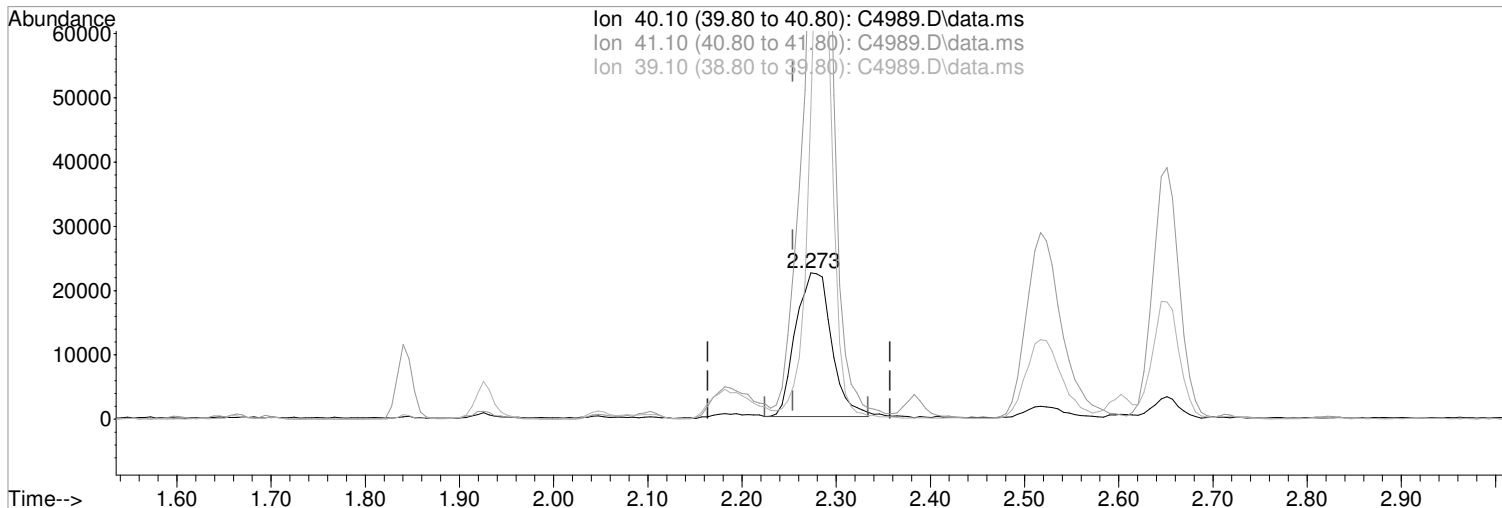
02/16/18



Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4989.D  
Acq On : 16 Feb 2018 10:58 am  
Operator : F. NAEGLER  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:25 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.273min (+0.019) 402.48 ug/L  
response 58838

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	366.70#
39.10	36.10	212.36#
0.00	0.00	0.00

02/16/18

Evaluate Continuing Calibration Report

1st *FJ* 02/16/18  
 2nd *RL* 02/20/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4989.D  
 Acq On : 16 Feb 2018 10:58 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:53 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	Pentafluorobenzene	1.000	1.000	0.0	88	0.00
2 P	Dichlorodifluoromethane	0.639	0.725	-13.5	98	0.00
3 P	Chloromethane	0.774	0.693	10.5	84	0.00
4 P	Vinyl Chloride	0.592	0.662	-11.8	101	0.00
5 P	Bromomethane	0.370	0.323	13.1	81	0.00
6 P	Chloroethane	0.326	0.357	-9.5	90	0.00
7	Freon 21	0.902	0.991	-9.9	97	0.00
8 P	Trichlorofluoromethane	0.678	0.738	-8.8	99	0.00
9	Diethyl Ether	0.436	0.445	-2.1	92	0.00
10	Freon 123a	0.576	0.630	-9.4	101	0.00
11	Freon 123	0.662	0.689	-4.1	96	0.00
12	Acrolein	0.108	0.101	6.5	86	0.00
13	1,1-Dicethene	0.439	0.453	-3.2	96	0.00
14 P	Freon 113	0.435	0.493	-13.3	106	0.00
15 P	Acetone	0.227	0.231	-1.8	88	0.00
16	2-Propanol	0.052	0.047	9.6	79	0.03
17	Iodomethane	0.390	0.722	-73.9	85.1#	207# 0.00 NT
18 P	Carbon Disulfide	1.496	1.553	-3.8	100	0.00
19	Acetonitrile	0.034	0.028	17.6	75	0.02
20	Allyl Chloride	0.213	0.249	-16.9	110	0.00
21 P	Methyl Acetate	0.431	0.454	-5.3	93	0.00
22 P	Methylene Chloride	0.521	0.510	2.1	93	0.00
23	TBA	0.092	0.077	16.3	74	0.01
24	Acrylonitrile	0.205	0.202	1.5	86	0.00
25 P	Methyl-t-Butyl Ether	1.613	1.580	2.0	87	0.00
26 P	trans-1,2-Dichloroethene	0.501	0.510	-1.8	96	0.00
27 P	1,1-Dicethane	0.884	0.924	-4.5	97	0.00
28	Vinyl Acetate	0.124	0.115	7.3	86	-0.01
29	DIPE	1.729	1.779	-2.9	95	0.00
30	2-Chloro-1,3-Butadiene	0.790	0.935	-18.4	113	0.00
31	ETBE	1.715	1.622	5.4	88	0.00
32	2,2-Dichloropropane	0.794	0.760	4.3	90	0.00
33 P	cis-1,2-Dichloroethene	0.575	0.582	-1.2	95	0.00
34 P	2-Butanone	0.306	0.317	-3.6	94	0.00
35	Propionitrile	0.085	0.080	5.9	84	0.00
36	Bromochloromethane	0.345	0.347	-0.6	94	-0.01
37	Methacrylonitrile	0.236	0.212	10.2	80	0.00
38	Tetrahydrofuran	0.191	0.178	6.8	83	0.00
39 P	Chloroform	0.896	0.915	-2.1	95	0.00
40 P	1,1,1-Trichloroethane	0.775	0.782	-0.9	91	0.00
41	TAME	1.652	1.505	8.9	84	0.00
42 i	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
43 P	Cyclohexane	0.337	0.376	-11.6	102	0.00
44 s	SURR4,Dibrflmethane	0.311	0.309	0.6	88	0.00
45 P	Carbontetrachloride	0.141	0.135	4.3	91	0.00
46	1,1-Dichloropropene	0.453	0.472	-4.2	99	0.00
47 s	SURR1,1,2-dichloroethane-d4	0.373	0.382	-2.4	91	0.00
48 P	Benzene	1.312	1.314	-0.2	95	0.00
49 P	1,2-Dichloroethane	0.494	0.490	0.8	92	0.00
50	Iso-Butyl Alcohol	0.024	0.019	20.8#	69	0.02 NT
51	n-Heptane	0.423	0.504	-21.2	19.1	108 0.00 NT

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4989.D  
 Acq On : 16 Feb 2018 10:58 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:53 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	1-Butanol	0.015	0.012	20.0	65	0.01
53 P	Trichloroethene	0.364	0.364	0.0	96	0.00
54 P	Methylcyclohexane	0.477	0.504	-5.7	100	0.00
55 P	1,2-Diclp propane	0.359	0.358	0.3	95	0.00
56	Dibromomethane	0.220	0.214	2.7	89	0.00
57	1,4-Dioxane	0.006	0.005	16.7	79	0.03
58	Methyl Methacrylate	0.284	0.251	11.6	80	0.00
59 P	Bromodichloromethane	0.463	0.444	4.1	89	0.00
60	2-Nitropropane	0.106	0.085	19.8	71	0.00
61	2-Chloroethylvinyl Ether	0.128	0.121	5.5	81	0.00
62 P	cis-1,3-Dichloropropene	0.586	0.557	4.9	86	0.00
63 P	4-Methyl-2-pentanone	0.408	0.409	-0.2	91	0.00
64 s	SURR3,Toluene-d8	1.191	1.192	-0.1	88	0.00
65 P	Toluene	1.433	1.436	-0.2	94	0.00
66 P	trans-1,3-Dichloropropene	0.542	0.491	9.4	82	0.00
67	Ethyl Methacrylate	0.503	0.450	10.5	79	0.00
68 P	1,1,2-Trichloroethane	0.319	0.299	6.3	86	0.00
69 s	SURR2,BFB	0.480	0.465	3.1	86	0.00
70 i	d5-Chlorobenzene	1.000	1.000	0.0	88	0.00
71 P	Tetrachloroethene	0.330	0.326	1.2	93	0.00
72 P	2-Hexanone	0.332	0.341	-2.7	88	0.00
73	1,3-Dichloropropene	0.625	0.609	2.6	89	0.00
74 P	Dibromochloromethane	0.407	0.374	8.1	82	0.00
75	N-Butyl Acetate	0.753	0.687	8.8	79	0.00
76 P	1,2-Dibromoethane	0.365	0.344	5.8	83	0.00
77 P	Chlorobenzene	1.092	1.085	0.6	91	0.00
78	1,1,1,2-Tetrachloroethane	0.396	0.369	6.8	85	0.00
79 P	Ethylbenzene	0.573	0.570	0.5	92	0.00
80 P	(m+p)Xylene	0.718	0.719	-0.1	92	0.00
81 P	o-Xylene	0.711	0.699	1.7	90	0.00
82 P	Styrene	1.228	1.207	1.7	89	0.00
83 P	Bromoform	0.269	0.228	15.2	72	0.00
84 P	Isopropylbenzene	1.837	1.836	0.1	91	0.00
85	Cyclohexanone	0.082	0.109	-32.9#	118	0.00 NT
86	trans-1,4-Dichloro-2-Butene	0.132	0.118	10.6	79	0.00
87 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
88 P	1,1,2,2-Tetrachloroethane	0.954	0.849	11.0	76	0.00
89	Bromobenzene	0.893	0.870	2.6	87	0.00
90	1,2,3-Trichloropropene	0.304	0.282	7.2	79	0.00
91	n-Propylbenzene	3.913	4.177	-6.7	96	0.00
92	2-Chlorotoluene	2.359	2.434	-3.2	93	0.00
93	4-Chlorotoluene	2.820	2.925	-3.7	94	0.00
94	1,3,5-Trimethylbenzene	2.863	2.966	-3.6	93	0.00
95	tert-Butylbenzene	2.502	2.550	-1.9	90	0.00
96	1,2,4-Trimethylbenzene	2.901	2.994	-3.2	92	0.00
97	sec-Butylbenzene	3.671	3.847	-4.8	94	0.00
98	p-Isopropyltoluene	3.156	3.287	-4.2	94	0.00
99 P	1,3-Dclbenz	1.728	1.744	-0.9	92	0.00
100 P	1,4-Dclbenz	1.772	1.734	2.1	89	0.00
101	n-Butylbenzene	2.888	3.163	-9.5	99	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4989.D  
 Acq On : 16 Feb 2018 10:58 am  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 16 11:38:53 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102 P	1,2-Dclbenz	1.678	1.644	2.0	88	0.00
103 P	1,2-Dibromo-3-chloropropane	0.219	0.170	22.4#	62	0.00 (1)
104	1,3,5-Trichlorobenzene	1.385	1.306	5.7	87	0.00
105 P	1,2,4-Tcbenzene	1.294	1.121	13.4	79	0.00
106	Hexachlorobt	0.691	0.648	6.2	83	0.00
107	Naphthalen	3.138	2.184	30.4#	60	0.00 NT
108	1,2,3-Tclbenzene	1.220	0.909	25.5#	67	0.00 (2)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4989.D  
 Acq On : 16 Feb 2018 10:58 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:53 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	214884	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	326482	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	286649	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	150113	50.00	ug/L	0.00	
System Monitoring Compounds							
44) SURR4,Dibrflmethane	4.529	113	100868	49.61	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery =	99.22%			
47) SURR1,1,2-dichloroetha...	5.114	65	124589	51.16	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery =	102.32%			
64) SURR3,Toluene-d8	7.949	98	389096	50.05	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery =	100.10%			
69) SURR2,BFB	10.735	95	151941	48.44	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery =	96.88%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.036	85	155860	56.75	ug/L		98
3) Chloromethane	1.145	50	149011	44.78	ug/L		98
4) Vinyl Chloride	1.212	62	142157	55.83	ug/L		97
5) Bromomethane	1.414	94	69321	43.45	ug/L		97
6) Chloroethane	1.474	64	76720	54.79	ug/L		99
7) Freon 21	1.596	67	213038	54.94	ug/L		99
8) Trichlorofluoromethane	1.639	101	158489	54.38	ug/L		99
9) Diethyl Ether	1.840	59	95546	51.05	ug/L		99
10) Freon 123a	1.840	67	135386	54.66	ug/L		96
11) Freon 123	1.883	83	148138	52.08	ug/L		97
12) Acrolein	1.926	56	109002	234.45	ug/L		97
13) 1,1-Dicethene	2.005	96	97447	51.59	ug/L		99
14) Freon 113	2.011	101	105910	56.62	ug/L		100
15) Acetone	2.048	43	49745	51.09	ug/L		98
16) 2-Propanol	2.188	45	200556	903.39	ug/L		96
17) Iodomethane	2.115	142	155097	86.96	ug/L		99
18) Carbon Disulfide	2.169	76	333632	51.89	ug/L		99
19) Acetonitrile	2.273	40	29910m	204.60	ug/L		
20) Allyl Chloride	2.285	76	53593	58.42	ug/L	#	89
21) Methyl Acetate	2.310	43	97492	52.60	ug/L		99
22) Methylene Chloride	2.383	84	109492	48.92	ug/L		96
23) TBA	2.517	59	329388	831.90	ug/L		95
24) Acrylonitrile	2.602	53	216703	246.28	ug/L		98
25) Methyl-t-Butyl Ether	2.651	73	339431	48.95	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	109491	50.83	ug/L		96
27) 1,1-Dicethane	3.060	63	198466	52.25	ug/L		98
28) Vinyl Acetate	3.139	86	24754	46.27	ug/L	#	87
29) DIPE	3.181	45	382207	51.43	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.169	53	200890	59.15	ug/L		97
31) ETBE	3.633	59	348446	47.28	ug/L		99
32) 2,2-Dichloropropane	3.773	77	163390	47.85	ug/L		99
33) cis-1,2-Dichloroethene	3.779	96	125130	50.66	ug/L		95
34) 2-Butanone	3.828	43	68126	51.73	ug/L		98
35) Propionitrile	3.889	54	85942	234.43	ug/L		98
36) Bromochloromethane	4.114	130	74581	50.24	ug/L		92
37) Methacrylonitrile	4.114	67	45450	44.74	ug/L		95
38) Tetrahydrofuran	4.212	42	38318	46.62	ug/L		100
39) Chloroform	4.273	83	196685	51.10	ug/L		98
40) 1,1,1-Trichloroethane	4.547	97	168025	50.43	ug/L		98

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
 Data File : C4989.D  
 Acq On : 16 Feb 2018 10:58 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:53 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	323329	45.53	ug/L	99
43) Cyclohexane	4.638	41	122614	55.72	ug/L	100
45) Carbontetrachloride	4.840	121	44025	47.78	ug/L	97
46) 1,1-Dichloropropene	4.852	75	154084	52.04	ug/L	98
48) Benzene	5.218	78	428905	50.07	ug/L	99
49) 1,2-Dichloroethane	5.254	62	160111	49.66	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	125733	791.39	ug/L	98
51) n-Heptane	5.803	43	164635	60.61	ug/L	98
52) 1-Butanol	6.388	56	188299	1886.94	ug/L	96
53) Trichloroethene	6.303	130	118914	49.97	ug/L	99
54) Methylcyclohexane	6.565	55	164644	52.83	ug/L	99
55) 1,2-Diclpropane	6.608	63	116919	49.91	ug/L	99
56) Dibromomethane	6.766	93	69779	48.54	ug/L	99
57) 1,4-Dioxane	6.882	88	33986	902.98	ug/L	80
58) Methyl Methacrylate	6.888	69	81970	44.21	ug/L	98
59) Bromodichloromethane	7.028	83	144851	47.89	ug/L	99
60) 2-Nitropropane	7.339	41	55303	79.64	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	39414	47.29	ug/L	94
62) cis-1,3-Dichloropropene	7.626	75	181909	47.53	ug/L	98
63) 4-Methyl-2-pentanone	7.863	43	133694	50.14	ug/L	97
65) Toluene	8.028	91	468843	50.10	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	160446	45.37	ug/L	100
67) Ethyl Methacrylate	8.504	69	146787	44.73	ug/L	95
68) 1,1,2-Trichloroethane	8.528	97	97522	46.76	ug/L	97
71) Tetrachloroethene	8.674	164	93451	49.35	ug/L	98
72) 2-Hexanone	8.869	43	97697	51.36	ug/L	97
73) 1,3-Dichloropropane	8.717	76	174546	48.69	ug/L	96
74) Dibromochloromethane	8.967	129	107092	45.95	ug/L	98
75) N-Butyl Acetate	9.058	43	196883	45.59	ug/L	99
76) 1,2-Dibromoethane	9.058	107	98720	47.19	ug/L	99
77) Chlorobenzene	9.613	112	311051	49.69	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	105738	46.54	ug/L	98
79) Ethylbenzene	9.753	106	163487	49.74	ug/L	93
80) (m+p)Xylene	9.875	106	412014	100.09	ug/L	97
81) o-Xylene	10.253	106	200504	49.21	ug/L	95
82) Styrene	10.265	104	346015	49.14	ug/L	100
83) Bromoform	10.418	173	65238	42.28	ug/L	99
84) Isopropylbenzene	10.613	105	526379	49.98	ug/L	99
85) Cyclohexanone	10.668	55	622469	1328.48	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.936	53	33879	44.83	ug/L	88
88) 1,1,2,2-Tetrachloroethane	10.887	83	127453	44.51	ug/L	100
89) Bromobenzene	10.851	156	130626	48.73	ug/L	95
90) 1,2,3-Trichloropropane	10.906	110	42378	46.45	ug/L	99
91) n-Propylbenzene	10.985	91	627016	53.38	ug/L	99
92) 2-Chlorotoluene	11.040	91	365348	51.59	ug/L	99
93) 4-Chlorotoluene	11.137	91	439109	51.86	ug/L	98
94) 1,3,5-Trimethylbenzene	11.143	105	445276	51.80	ug/L	97
95) tert-Butylbenzene	11.424	119	382762	50.96	ug/L	100
96) 1,2,4-Trimethylbenzene	11.466	105	449512	51.61	ug/L	98
97) sec-Butylbenzene	11.613	105	577501	52.40	ug/L	99
98) p-Isopropyltoluene	11.741	119	493378	52.06	ug/L	99
99) 1,3-Dclbenz	11.686	146	261732	50.46	ug/L	99
100) 1,4-Dclbenz	11.765	146	260321	48.94	ug/L	97
101) n-Butylbenzene	12.082	91	474841	54.76	ug/L	98
102) 1,2-Dclbenz	12.070	146	246781	49.00	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	25487	38.72	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4989.D  
Acq On : 16 Feb 2018 10:58 am  
Operator : F. NAEGLER  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:53 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	196092	47.17	ug/L	100
105) 1,2,4-Tcbenzene	13.368	180	168264	43.30	ug/L	98
106) Hexachlorobt	13.515	225	97249	46.89	ug/L	98
107) Naphthalen	13.557	128	327862	34.80	ug/L	99
108) 1,2,3-Tclbenzene	13.746	180	136502	37.27	ug/L	99

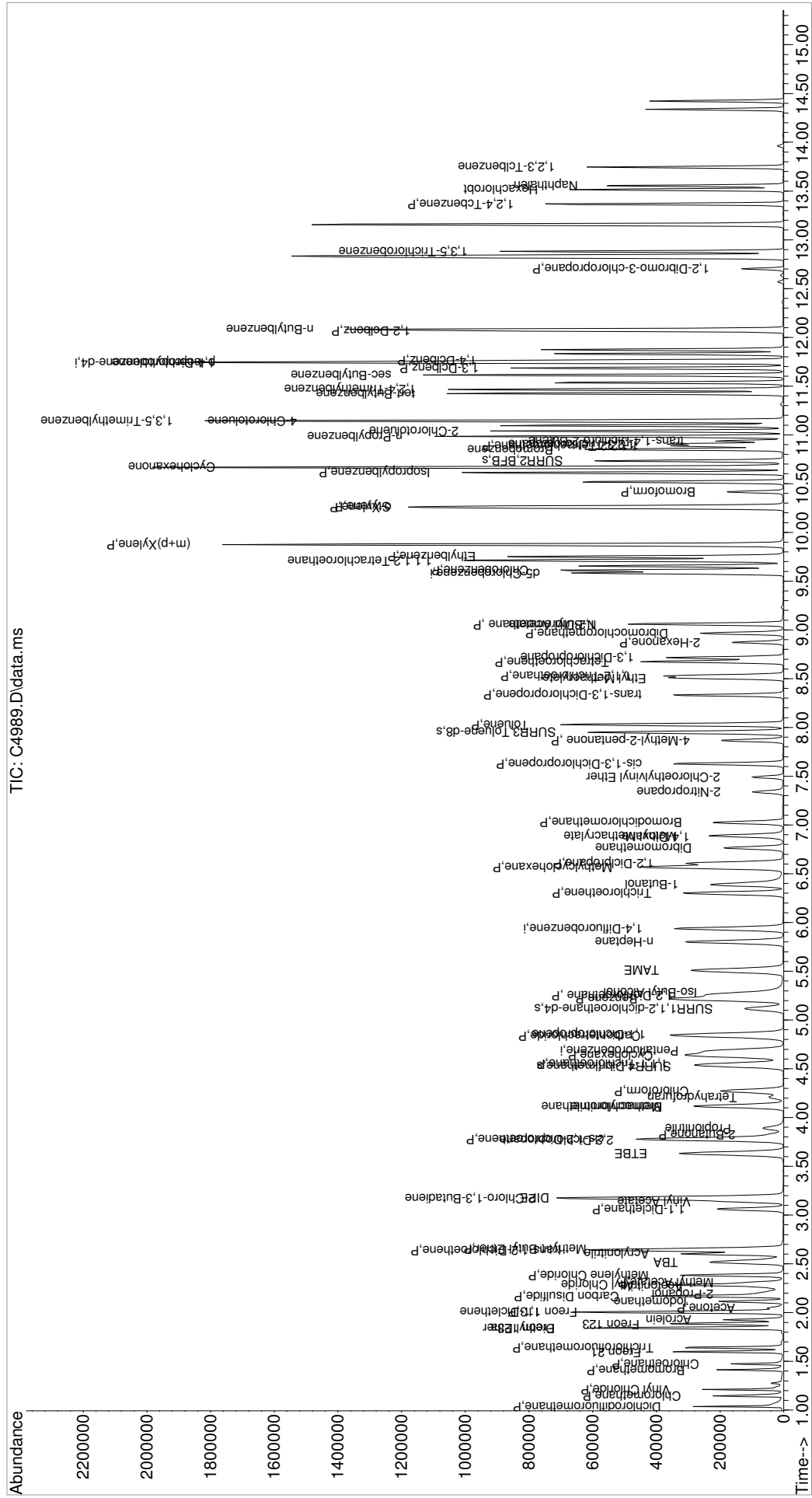
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\021618\  
 Data File : C4989.D  
 Acq On : 16 Feb 2018 10:58 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 16 11:38:53 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\022018\  
 Data File : P15884.D  
 Acq On : 20 Feb 2018 10:53 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:18:14 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.0000	1.0000	0.0	116	0.00
2 P	Dichlorodifluoromethane	0.6083	0.7264	-19.4	130	0.00
3 P	Chloromethane	0.7602	0.8882	-16.8	141	0.00
4 P	Vinyl Chloride	0.7405	0.8451	-14.1	131	0.00
5 P	Bromomethane	0.5812	0.5335	0.8	<del>8.2</del> 133	0.00
6 P	Chloroethane	0.4623	0.4733	-2.4	119	0.00
7	Freon 21	0.9560	1.1035	-15.4	133	0.00
8 P	Trichlorofluoromethane	0.7136	0.7835	-9.8	128	0.00
9	Diethyl Ether	0.4967	0.5505	-10.8	136	0.00
10	Freon 123a	0.6039	0.6786	-12.4	133	0.00
11	Freon 123	0.6987	0.7836	-12.2	132	0.00
12	Acrolein	0.1478	0.1486	-0.5	120	0.00
13 P	1,1-Dicethene	0.5136	0.5081	1.1	126	0.00
14 P	Freon 113	0.4853	0.5302	-9.3	132	0.00
15 P	Acetone	0.3049	0.3116	-2.2	118	0.00
16	2-Propanol	0.0585	0.0671	-14.7	144	0.00
17	Iodomethane	0.5271	0.5962	4.0	<del>13.1</del> 108	0.00
18 P	Carbon Disulfide	1.4979	1.5158	-1.2	116	0.00
19	Acetonitrile	0.0521	0.0602	-15.5	145	0.00
20	Allyl Chloride	0.2735	0.3012	-10.1	134	0.00
21 P	Methyl Acetate	0.5445	0.6742	-23.8#	151	0.00
22 P	Methylene Chloride	0.5417	0.5878	-8.5	130	0.00
23	TBA	0.1008	0.1088	-7.9	134	0.00
24	Acrylonitrile	0.2927	0.3296	-12.6	138	0.00
25 P	Methyl-t-Butyl Ether	1.8411	1.9622	-6.6	127	0.00
26 P	trans-1,2-Dichloroethene	0.5246	0.5587	-6.5	127	0.00
27	Halothane	0.0000	0.0000	0.0	0#	-4.00#
28 P	1,1-Dicethane	0.9627	1.0634	-10.5	131	0.00
29	Vinyl Acetate	0.1537	0.1603	-4.3	125	0.00
30	DIPE	1.8333	1.9821	-8.1	129	0.00
31	2-Chloro-1,3-Butadiene	0.9310	0.9515	-2.2	124	0.00
32	ETBE	1.8488	1.9097	-3.3	119	0.01
33	2,2-Dichloropropane	0.8561	0.8562	-0.0	122	0.01
34 P	cis-1,2-Dichloroethene	0.5972	0.6291	-5.3	127	0.00
35 P	2-Butanone	0.3831	0.4329	-13.0	135	0.01
36	Propionitrile	0.1244	0.1389	-11.7	141	-0.01
37	Bromochloromethane	0.3456	0.3699	-7.0	133	0.02
38	Methacrylonitrile	0.2950	0.3372	-14.3	135	0.00
39	Tetrahydrofuran	0.2235	0.2674	-19.6	142	0.00
40 P	Chloroform	0.9692	0.9733	-0.4	127	0.00
41 P	1,1,1-Trichloroethane	0.8203	0.8143	0.7	125	0.02
42	TAME	1.8047	1.8375	-1.8	119	0.00
43 I	1,4-Difluorobenzene	1.0000	1.0000	0.0	118	0.00
44 P	Cyclohexane	0.3267	0.3592	-9.9	136	0.00
45 s	surr4,Dibrflmethane	0.2969	0.2988	-0.6	119	0.00
46 P	Carbontetrachloride	0.3753	0.3911	-4.2	122	0.00
47	1,1-Dichloropropene	0.4404	0.4884	-10.9	133	0.02
48 s	surr1,1,2-dichloroethane-d4	0.4068	0.4076	-0.2	117	0.00
49 P	Benzene	1.3061	1.4309	-9.6	132	0.00
50 P	1,2-Dichloroethane	0.4798	0.5020	-4.6	126	0.00
51	Iso-Butyl Alcohol	0.0265	0.0293	-10.6	138	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\022018\  
 Data File : P15884.D  
 Acq On : 20 Feb 2018 10:53 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:18:14 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	n-Heptane	0.4483	0.5399	-20.4#	144	0.02
53	1-Butanol	0.0175	0.0191	-9.1	130	0.00
54 P	Trichloroethene	0.3350	0.3526	-5.3	124	0.00
55 P	Methylcyclohexane	0.4357	0.5217	-19.7	138	0.00
56 P	1,2-Diclp propane	0.3484	0.3864	-10.9	135	0.02
57	Dibromomethane	0.2080	0.2216	-6.5	129	0.00
58	1,4-Dioxane	0.0069	0.0076	-10.1	139	0.00
59	Methyl Methacrylate	0.3218	0.3419	-6.2	131	0.00
60 P	Bromodichloromethane	0.4386	0.4347	0.9	125	0.00
61	2-Nitropropane	0.1354	0.1264	6.6	114	0.00
62	2-Chloroethylvinyl Ether	0.0805	0.0560	30.4#	85	0.00
63 P	cis-1,3-Dichloropropene	0.5534	0.5995	-8.3	126	0.00
64 P	4-Methyl-2-pentanone	0.4251	0.4792	-12.7	135	0.00
65 s	SURR3,Toluene-d8	1.3256	1.3531	-2.1	120	0.00
66 P	Toluene	1.4187	1.5353	-8.2	129	0.00
67 P	trans-1,3-Dichloropropene	0.5155	0.5531	-7.3	125	0.00
68	Ethyl Methacrylate	0.5263	0.5853	-11.2	130	0.00
69 P	1,1,2-Trichloroethane	0.3223	0.3349	-3.9	132	0.00
70 s	SURR2,BFB	0.5129	0.5082	0.9	118	0.00
71 I	d5-Chlorobenzene	1.0000	1.0000	0.0	121	0.00
72 P	Tetrachloroethene	0.2759	0.2921	-5.9	134	0.00
73 P	2-Hexanone	0.3681	0.3928	-6.7	131	0.00
74	1,3-Dichloropropene	0.6425	0.6917	-7.7	132	0.00
75 P	Dibromochloromethane	0.3353	0.3421	-2.0	122	0.00
76	N-Butyl Acetate	0.6929	0.8254	-19.1	137	0.00
77 P	1,2-Dibromoethane	0.3562	0.3819	-7.2	131	0.00
78 P	Chlorobenzene	0.9796	1.0534	-7.5	130	0.00
79	3-CBTF	0.5223	0.5591	-7.0	135	0.00
80	4-CBTF	0.4773	0.5057	-6.0	136	0.00
81	1,1,1,2-Tetrachloroethane	0.3482	0.3476	0.2	123	0.00
82 P	Ethylbenzene	0.5408	0.5643	-4.3	129	0.00
83 P	(m+p)Xylene	0.6546	0.7110	-8.6	132	0.00
84 P	o-Xylene	0.6554	0.7057	-7.7	131	0.00
85 P	Styrene	1.1033	1.2061	-9.3	129	0.00
86 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	125	0.00
87 P	Bromoform	0.4361	0.4302	1.4	124	0.00
88	2-CBTF	0.9684	1.0428	-7.7	135	0.00
89 P	Isopropylbenzene	3.2851	3.5399	-7.8	133	0.00
90	Cyclohexanone	0.2499	0.2512	-0.5	129	0.00
91	trans-1,4-Dichloro-2-Butene	0.2603	0.2794	-7.3	137	0.00
92 P	1,1,2,2-Tetrachloroethane	0.9914	1.0302	-3.9	135	0.00
93	Bromobenzene	0.8046	0.8583	-6.7	136	0.00
94	1,2,3-Trichloropropene	0.3221	0.3365	-4.5	133	0.00
95	n-Propylbenzene	3.8197	4.2530	-11.3	135	0.00
96	2-Chlorotoluene	2.3682	2.5098	-6.0	134	0.00
97	3-Chlorotoluene	2.4978	2.5761	-3.1	127	0.00
98	4-Chlorotoluene	2.7362	2.9567	-8.1	134	0.00
99	1,3,5-Trimethylbenzene	2.7476	2.9482	-7.3	132	0.00
100	tert-Butylbenzene	2.3716	2.5481	-7.4	132	0.00
101	1,2,4-Trimethylbenzene	2.7517	2.9751	-8.1	132	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15884.D  
 Acq On : 20 Feb 2018 10:53 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:18:14 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	3,4-DCBTF	0.7689	0.8921	-16.0	140	0.00
103	sec-Butylbenzene	3.4901	3.8673	-10.8	135	0.00
104	p-Isopropyltoluene	2.9371	3.1776	-8.2	132	0.00
105 P	1,3-Dclbenz	1.5293	1.6865	-10.3	136	0.00
106 P	1,4-Dclbenz	1.6050	1.6702	-4.1	134	0.00
107	2,4-DCBTF	0.7333	0.8253	-12.5	141	0.00
108	2,5-DCBTF	0.7842	0.9039	-15.3	144	0.00
109	n-Butylbenzene	2.7396	3.0524	-11.4	133	0.00
110 P	1,2-Dclbenz	1.5264	1.6628	-8.9	135	0.00
111 P	1,2-Dibromo-3-chloropropane	0.2566	0.2370	7.6	127	0.00
112	Trielution Dichlorotoluene	1.5014	1.5770	-5.0	128	0.00
113	1,3,5 Trichlorobenzene	1.1884	1.2961	-9.1	133	0.00
114	Coelution Dichlorotoluene	1.5924	1.7143	-7.7	126	0.00
115 P	1,2,4-Tcbenzene	1.1095	1.2684	-14.3	136	0.00
116	Hexachlorobt	0.5150	0.5606	-8.9	138	0.00
117	Naphthalen	3.0613	3.5109	-14.7	132	0.00
118	1,2,3-Tclbenzene	1.0777	1.2324	-14.4	136	0.00
119	2,4,5-Trichlorotolene	0.6534	0.6914	1.5	<del>5.8</del>	109 0.00
120	2,3,6-Trichlorotoluene	0.5941	0.6392	1.3	<del>7.6</del>	110 0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15884.D  
 Acq On : 20 Feb 2018 10:53 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:18:14 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	331591	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.474	114	555110	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	505885	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	264790	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.237	113	165865	50.32	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.64%		
48) surr1,1,2-dichloroetha...	5.767	65	226288	50.10	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.20%		
65) SURR3,Toluene-d8	8.291	98	751120	51.04	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	102.08%		
70) SURR2,BFB	10.864	95	282112	49.54	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.08%		
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	240876	59.71	ppb		98
3) Chloromethane	1.311	50	294515	58.42	ppb		99
4) Vinyl Chloride	1.384	62	280225	57.06	ppb		97
5) Bromomethane	1.610	94	176892	49.59	ppb		99
6) Chloroethane	1.689	64	156947	51.19	ppb		98
7) Freon 21	1.835	67	365918	57.72	ppb		99
8) Trichlorofluoromethane	1.884	101	259788	54.90	ppb		97
9) Diethyl Ether	2.116	59	182556	55.42	ppb		99
10) Freon 123a	2.122	67	225034	56.19	ppb		98
11) Freon 123	2.170	83	259834	56.07	ppb		98
12) Acrolein	2.219	56	246355	251.30	ppb		97
13) 1,1-Diclcethene	2.305	96	168483	49.47	ppb		99
14) Freon 113	2.311	101	175817	54.63	ppb		96
15) Acetone	2.347	43	103316	51.10	ppb		96
16) 2-Propanol	2.481	45	445285	1147.85	ppb		95
17) Iodomethane	2.439	142	197689	47.98	ppb		99
18) Carbon Disulfide	2.500	76	502621	50.60	ppb		99
19) Acetonitrile	2.597	40	99857	289.27	ppb		97
20) Allyl Chloride	2.634	76	99867	55.05	ppb	#	89
21) Methyl Acetate	2.658	43	223571	61.92	ppb		98
22) Methylene Chloride	2.750	84	194922	54.26	ppb		94
23) TBA	2.878	59	721836	1079.48	ppb		95
24) Acrylonitrile	3.000	53	546425	281.54	ppb		96
25) Methyl-t-Butyl Ether	3.054	73	650640	53.29	ppb		99
26) trans-1,2-Dichloroethene	3.042	96	185262	53.25	ppb		97
28) 1,1-Diclcethane	3.536	63	352624	55.23	ppb		99
29) Vinyl Acetate	3.627	86	53153	52.14	ppb	#	81
30) DIPE	3.664	45	657246	54.06	ppb		96
31) 2-Chloro-1,3-Butadiene	3.664	53	315496	51.10	ppb		97
32) ETBE	4.188	59	633247	51.65	ppb		98
33) 2,2-Dichloropropane	4.371	77	283894	50.01	ppb		94
34) cis-1,2-Dichloroethene	4.377	96	208603	52.67	ppb		94
35) 2-Butanone	4.420	43	143544	56.50	ppb		95
36) Propionitrile	4.493	54	230329	279.24	ppb		100
37) Bromochloromethane	4.767	130	122657	53.52	ppb		98
38) Methacrylonitrile	4.774	67	111820	57.15	ppb		87
39) Tetrahydrofuran	4.853	42	88673	59.83	ppb		94
40) Chloroform	4.944	83	322727	50.21	ppb		100
41) 1,1,1-Trichloroethane	5.249	97	270024	49.64	ppb		95

Data Path : I:\ACQUDATA\msvoal2\Data\022018\  
 Data File : P15884.D  
 Acq On : 20 Feb 2018 10:53 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 20 11:18:14 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.090	73	609314	50.91	ppb	99
44) Cyclohexane	5.334	41	199421	54.99	ppb	95
46) Carbontetrachloride	5.523	117	217125	52.11	ppb	96
47) 1,1-Dichloropropene	5.536	75	271115	55.44	ppb	98
49) Benzene	5.853	78	794334	54.78	ppb	99
50) 1,2-Dichloroethane	5.889	62	278639	52.31	ppb	96
51) Iso-Butyl Alcohol	5.859	43	325500	1106.68	ppb	99
52) n-Heptane	6.340	43	299706	60.22	ppb	95
53) 1-Butanol	6.828	56	530622	2726.60	ppb	99
54) Trichloroethene	6.798	130	195736	52.63	ppb	96
55) Methylcyclohexane	7.041	55	289581	59.87	ppb	100
56) 1,2-Diclpropane	7.084	63	214470	55.44	ppb	98
57) Dibromomethane	7.224	93	123011	53.27	ppb	95
58) 1,4-Dioxane	7.285	88	84336	1104.52	ppb	97
59) Methyl Methacrylate	7.310	69	189791	53.12	ppb	96
60) Bromodichloromethane	7.450	83	241282	49.55	ppb	98
61) 2-Nitropropane	7.730	41	140329	93.32	ppb	95
62) 2-Chloroethylvinyl Ether	7.858	63	31060	34.74	ppb	99
63) cis-1,3-Dichloropropene	7.992	75	332810	54.17	ppb	98
64) 4-Methyl-2-pentanone	8.200	43	266026	56.37	ppb	97
66) Toluene	8.364	91	852236	54.11	ppb	100
67) trans-1,3-Dichloropropene	8.633	75	307038	53.65	ppb	98
68) Ethyl Methacrylate	8.779	69	324916	55.61	ppb	99
69) 1,1,2-Trichloroethane	8.822	97	185912	51.96	ppb	96
72) Tetrachloroethene	8.962	164	147746	52.92	ppb	97
73) 2-Hexanone	9.114	43	198733	53.36	ppb	100
74) 1,3-Dichloropropane	8.992	76	349938	53.83	ppb	94
75) Dibromochloromethane	9.218	129	173044	51.00	ppb	96
76) N-Butyl Acetate	9.273	43	417581	59.57	ppb	97
77) 1,2-Dibromoethane	9.315	107	193200	53.61	ppb	99
78) Chlorobenzene	9.815	112	532905	53.77	ppb	99
79) 3-CBTF	9.834	180	282844	53.52	ppb	95
80) 4-CBTF	9.888	180	255839	52.98	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.901	131	175842	49.91	ppb	97
82) Ethylbenzene	9.931	106	285467	52.17	ppb	94
83) (m+p)Xylene	10.047	106	719405	108.62	ppb	97
84) o-Xylene	10.401	106	357018	53.84	ppb	99
85) Styrene	10.419	104	610126	54.66	ppb	99
87) Bromoform	10.571	173	113925	49.32	ppb	99
88) 2-CBTF	10.650	180	276128	53.84	ppb	92
89) Isopropylbenzene	10.742	105	937329	53.88	ppb	98
90) Cyclohexanone	10.803	55	1330061	1004.99	ppb	98
91) trans-1,4-Dichloro-2-B...	11.047	53	73972	53.65	ppb	96
92) 1,1,2,2-Tetrachloroethane	10.998	83	272777	51.96	ppb	98
93) Bromobenzene	10.986	156	227264	53.34	ppb	# 88
94) 1,2,3-Trichloropropane	11.028	110	89115	52.25	ppb	93
95) n-Propylbenzene	11.096	91	1126140	55.67	ppb	98
96) 2-Chlorotoluene	11.156	91	664583	52.99	ppb	96
97) 3-Chlorotoluene	11.211	91	682118	51.57	ppb	98
98) 4-Chlorotoluene	11.254	91	782911	54.03	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	780665	53.65	ppb	99
100) tert-Butylbenzene	11.522	119	674716	53.72	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	787769	54.06	ppb	98
102) 3,4-DCBTF	11.620	214	236212	58.01	ppb	97
103) sec-Butylbenzene	11.705	105	1024027	55.40	ppb	99
104) p-Isopropyltoluene	11.827	119	841391	54.09	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
 Data File : P15884.D  
 Acq On : 20 Feb 2018 10:53 am  
 Operator : K.Ruest  
 Sample : CCV Inst : MSVOA-12  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 20 11:18:14 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	446561	55.14	ppb	98
106) 1,4-Dclbenz	11.858	146	442259	52.03	ppb	99
107) 2,4-DCBTF	11.912	214	218518	56.27	ppb	99
108) 2,5-DCBTF	11.955	214	239335	57.63	ppb	95
109) n-Butylbenzene	12.156	91	808257	55.71	ppb	99
110) 1,2-Dclbenz	12.162	146	440295	54.47	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.784	157	62757	46.18	ppb	94
112) Trielution Dichlorotol...	12.900	125	1252691	157.55	ppb	98
113) 1,3,5 Trichlorobenzene	12.955	180	343182	54.53	ppb	100
114) Coelution Dichlorotoluene	13.229	125	907846	107.65	ppb	99
115) 1,2,4-Tcbenzene	13.437	180	335860	57.16	ppb	96
116) Hexachlorobt	13.583	225	148439	54.42	ppb	99
117) Naphthalen	13.626	128	929646	57.34	ppb	98
118) 1,2,3-Tclbenzene	13.821	180	326320	57.17	ppb	97
119) 2,4,5-Trichlorotolene	14.406	159	183088	49.23	ppb	99
120) 2,3,6-Trichlorotoluene	14.491	159	169266	48.74	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed





Evaluate Continuing Calibration Report

1st *FJ* 02/17/18  
 2nd *RL* 02/26/18

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5025.D  
 Acq On : 17 Feb 2018 2:35 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 14:51:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1 i	Pentafluorobenzene	1.000	1.000	0.0	86	0.00	
2 P	Dichlorodifluoromethane	0.639	0.676	-5.8	89	0.00	
3 P	Chloromethane	0.774	0.677	12.5	79	0.00	
4 P	Vinyl Chloride	0.592	0.617	-4.2	92	0.00	
5 P	Bromomethane	0.370	0.303	18.7	74	0.00	
6 P	Chloroethane	0.326	0.363	-11.3	89	0.00	
7	Freon 21	0.902	1.007	-11.6	96	0.00	
8 P	Trichlorofluoromethane	0.678	0.675	0.4	89	0.00	
9	Diethyl Ether	0.436	0.430	1.4	86	0.00	
10	Freon 123a	0.576	0.635	-10.2	99	0.00	
11	Freon 123	0.662	0.717	-8.3	97	0.00	
12	Acrolein	0.108	0.086	20.4#	71	0.00	NT
13	1,1-Dicethene	0.439	0.429	2.3	89	0.00	
14 P	Freon 113	0.435	0.443	-1.8	93	0.00	
15 P	Acetone	0.227	0.200	11.9	74	0.00	
16	2-Propanol	0.052	0.044	15.4	73	0.01	
17	Iodomethane	0.390	0.641	-58.9	179	0.00	NT
18 P	Carbon Disulfide	1.496	1.368	8.6	86	0.00	
19	Acetonitrile	0.034	0.031	8.8	81	0.00	
20	Allyl Chloride	0.213	0.246	-15.5	106	0.00	
21 P	Methyl Acetate	0.431	0.416	3.5	83	0.00	
22 P	Methylene Chloride	0.521	0.504	3.3	90	0.00	
23	TBA	0.092	0.072	21.7#	67	0.00	NT
24	Acrylonitrile	0.205	0.191	6.8	79	0.00	
25 P	Methyl-t-Butyl Ether	1.613	1.552	3.8	84	0.00	
26 P	trans-1,2-Dichloroethene	0.501	0.493	1.6	91	0.00	
27 P	1,1-Dicethane	0.884	0.899	-1.7	92	0.00	
28	Vinyl Acetate	0.124	0.104	16.1	76	0.00	
29	DIPE	1.729	1.743	-0.8	90	0.00	
30	2-Chloro-1,3-Butadiene	0.790	0.826	-4.6	97	0.00	
31	ETBE	1.715	1.637	4.5	86	0.00	
32	2,2-Dichloropropane	0.794	0.729	8.2	84	0.00	
33 P	cis-1,2-Dichloroethene	0.575	0.563	2.1	89	0.00	
34 P	2-Butanone	0.306	0.272	11.1	78	0.00	
35	Propionitrile	0.085	0.077	9.4	78	0.00	
36	Bromochloromethane	0.345	0.337	2.3	89	0.00	
37	Methacrylonitrile	0.236	0.204	13.6	76	0.00	
38	Tetrahydrofuran	0.191	0.168	12.0	76	0.00	
39 P	Chloroform	0.896	0.897	-0.1	90	0.00	
40 P	1,1,1-Trichloroethane	0.775	0.741	4.4	84	0.00	
41	TAME	1.652	1.506	8.8	82	0.00	
42 i	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00	
43 P	Cyclohexane	0.337	0.379	-12.5	101	0.00	
44 s	SURR4,Dibrflmethane	0.311	0.303	2.6	85	0.00	
45 P	Carbontetrachloride	0.141	0.124	12.1	82	0.00	
46	1,1-Dichloropropene	0.453	0.440	2.9	90	0.00	
47 s	SURR1,1,2-dichloroethane-d4	0.373	0.370	0.8	86	0.00	
48 P	Benzene	1.312	1.281	2.4	90	0.00	
49 P	1,2-Dichloroethane	0.494	0.474	4.0	87	0.00	
50	Iso-Butyl Alcohol	0.024	0.018	25.0#	63	0.00	NT
51	n-Heptane	0.423	0.414	-1.0	87	0.00	

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5025.D  
 Acq On : 17 Feb 2018 2:35 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 14:51:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
52	1-Butanol	0.015	0.011	26.7#	61	0.00	NT
53 P	Trichloroethene	0.364	0.354	2.7	91	0.00	
54 P	Methylcyclohexane	0.477	0.514	-7.8	100	0.00	
55 P	1,2-Diclp propane	0.359	0.352	1.9	91	0.00	
56	Dibromomethane	0.220	0.206	6.4	84	0.00	
57	1,4-Dioxane	0.006	0.006	0.0	82	0.02	
58	Methyl Methacrylate	0.284	0.235	17.3	73	0.00	
59 P	Bromodichloromethane	0.463	0.434	6.3	85	0.00	
60	2-Nitropropane	0.106	0.079	25.5#	65	0.00	NT
61	2-Chloroethylvinyl Ether	0.128	0.123	3.9	81	0.00	
62 P	cis-1,3-Dichloropropene	0.586	0.550	6.1	83	0.00	
63 P	4-Methyl-2-pentanone	0.408	0.351	14.0	77	0.00	
64 s	SURR3,Toluene-d8	1.191	1.203	-1.0	87	0.00	
65 P	Toluene	1.433	1.384	3.4	89	0.00	
66 P	trans-1,3-Dichloropropene	0.542	0.483	10.9	79	0.00	
67	Ethyl Methacrylate	0.503	0.435	13.5	75	0.00	
68 P	1,1,2-Trichloroethane	0.319	0.291	8.8	82	0.00	
69 s	SURR2,BFB	0.480	0.465	3.1	84	0.00	
70 i	d5-Chlorobenzene	1.000	1.000	0.0	86	0.00	
71 P	Tetrachloroethene	0.330	0.295	10.6	83	0.00	
72 P	2-Hexanone	0.332	0.291	12.3	74	0.00	
73	1,3-Dichloropropene	0.625	0.598	4.3	86	0.00	
74 P	Dibromochloromethane	0.407	0.359	11.8	77	0.00	
75	N-Butyl Acetate	0.753	0.639	15.1	72	0.00	
76 P	1,2-Dibromoethane	0.365	0.338	7.4	80	0.00	
77 P	Chlorobenzene	1.092	1.051	3.8	87	0.00	
78	1,1,1,2-Tetrachloroethane	0.396	0.362	8.6	82	0.00	
79 P	Ethylbenzene	0.573	0.540	5.8	86	0.00	
80 P	(m+p)Xylene	0.718	0.681	5.2	86	0.00	
81 P	o-Xylene	0.711	0.670	5.8	85	0.00	
82 P	Styrene	1.228	1.177	4.2	85	0.00	
83 P	Bromoform	0.269	0.222	17.5	69	0.00	
84 P	Isopropylbenzene	1.837	1.710	6.9	83	0.00	
85	Cyclohexanone	0.082	0.102	-24.4#	109	0.00	NT
86	trans-1,4-Dichloro-2-Butene	0.132	0.113	14.4	75	0.00	
87 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00	
88 P	1,1,2,2-Tetrachloroethane	0.954	0.795	16.7	72	0.00	
89	Bromobenzene	0.893	0.831	6.9	84	0.00	
90	1,2,3-Trichloropropene	0.304	0.265	12.8	75	0.00	
91	n-Propylbenzene	3.913	3.738	4.5	86	0.00	
92	2-Chlorotoluene	2.359	2.266	3.9	87	0.00	
93	4-Chlorotoluene	2.820	2.700	4.3	87	0.00	
94	1,3,5-Trimethylbenzene	2.863	2.721	5.0	86	0.00	
95	tert-Butylbenzene	2.502	2.276	9.0	81	0.00	
96	1,2,4-Trimethylbenzene	2.901	2.777	4.3	86	0.00	
97	sec-Butylbenzene	3.671	3.375	8.1	83	0.00	
98	p-Isopropyltoluene	3.156	2.906	7.9	83	0.00	
99 P	1,3-Dclbenz	1.728	1.650	4.5	88	0.00	
100 P	1,4-Dclbenz	1.772	1.647	7.1	85	0.00	
101	n-Butylbenzene	2.888	2.706	6.3	85	0.00	

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5025.D  
 Acq On : 17 Feb 2018 2:35 pm  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 17 14:51:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
102 P	1,2-Dclbenz	1.678	1.586	5.5	85	0.00
103 P	1,2-Dibromo-3-chloropropane	0.219	0.154	29.7#	57	0.00 (1)
104	1,3,5-Trichlorobenzene	1.385	1.234	10.9	83	0.00
105 P	1,2,4-Tcbenzene	1.294	0.997	23.0#	70	0.00 (2)
106	Hexachlorobt	0.691	0.495	28.4#	64	0.00 NT
107	Naphthalen	3.138	2.008	36.0#	56	0.00 NT
108	1,2,3-Tclbenzene	1.220	0.801	34.3#	59	0.00 (3)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5025.D  
 Acq On : 17 Feb 2018 2:35 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 14:51:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	209267	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	319688	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	281440	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	151021	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	96995	48.72	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	97.44%		
47) SURR1,1,2-dichloroetha...	5.114	65	118294	49.61	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	99.22%		
64) SURR3,Toluene-d8	7.949	98	384687	50.53	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.06%		
69) SURR2,BFB	10.735	95	148588	48.38	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	96.76%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	141453	52.89	ug/L	99
3) Chloromethane	1.145	50	141711	43.73	ug/L	100
4) Vinyl Chloride	1.212	62	129104	52.06	ug/L	99
5) Bromomethane	1.414	94	63493	40.66	ug/L	98
6) Chloroethane	1.474	64	75955	55.70	ug/L	100
7) Freon 21	1.603	67	210827	55.82	ug/L	99
8) Trichlorofluoromethane	1.645	101	141329	49.79	ug/L	98
9) Diethyl Ether	1.846	59	89936	49.34	ug/L	98
10) Freon 123a	1.840	67	132890	55.09	ug/L	95
11) Freon 123	1.889	83	149970	54.14	ug/L	97
12) Acrolein	1.926	56	90054	198.90	ug/L	98
13) 1,1-Diclcethene	2.005	96	89709	48.77	ug/L	98
14) Freon 113	2.011	101	92636	50.86	ug/L	99
15) Acetone	2.041	43	41788	44.07	ug/L	98
16) 2-Propanol	2.169	45	185878	859.75	ug/L	97
17) Iodomethane	2.115	142	134082	79.43	ug/L	100
18) Carbon Disulfide	2.169	76	286315	45.72	ug/L	99
19) Acetonitrile	2.255	40	32224	226.35	ug/L	96
20) Allyl Chloride	2.285	76	51428	57.57	ug/L #	91
21) Methyl Acetate	2.310	43	87155	48.29	ug/L	99
22) Methylene Chloride	2.383	84	105410	48.36	ug/L	92
23) TBA	2.511	59	301877	782.88	ug/L	95
24) Acrylonitrile	2.602	53	200014	233.41	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	324713	48.09	ug/L	97
26) trans-1,2-Dichloroethene	2.639	96	103172	49.19	ug/L	99
27) 1,1-Diclcethane	3.066	63	188186	50.87	ug/L	98
28) Vinyl Acetate	3.145	86	21681	41.61	ug/L #	75
29) DIPE	3.181	45	364846	50.41	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.169	53	172812	52.25	ug/L	96
31) ETBE	3.633	59	342502	47.73	ug/L	98
32) 2,2-Dichloropropane	3.779	77	152540	45.88	ug/L	99
33) cis-1,2-Dichloroethene	3.779	96	117906	49.01	ug/L	93
34) 2-Butanone	3.822	43	56961	44.41	ug/L	97
35) Propionitrile	3.889	54	80306	224.93	ug/L	96
36) Bromochloromethane	4.120	130	70564	48.81	ug/L	95
37) Methacrylonitrile	4.120	67	42727	43.19	ug/L	94
38) Tetrahydrofuran	4.212	42	35189	43.97	ug/L	100
39) Chloroform	4.273	83	187643	50.06	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	155101	47.80	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
 Data File : C5025.D  
 Acq On : 17 Feb 2018 2:35 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 17 14:51:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	315232	45.58	ug/L	99
43) Cyclohexane	4.639	41	121058	56.18	ug/L	99
45) Carbontetrachloride	4.840	121	39585	43.87	ug/L	99
46) 1,1-Dichloropropene	4.852	75	140689	48.52	ug/L	95
48) Benzene	5.218	78	409633	48.84	ug/L	99
49) 1,2-Dichloroethane	5.254	62	151641	48.03	ug/L	97
50) Iso-Butyl Alcohol	5.266	43	115488	742.36	ug/L	99
51) n-Heptane	5.803	43	132361	50.50	ug/L	96
52) 1-Butanol	6.376	56	177489	1816.41	ug/L	93
53) Trichloroethene	6.303	130	113010	48.50	ug/L	99
54) Methylcyclohexane	6.571	55	164312	53.85	ug/L	95
55) 1,2-Diclpropane	6.608	63	112534	49.06	ug/L	97
56) Dibromomethane	6.766	93	65984	46.87	ug/L	98
57) 1,4-Dioxane	6.870	88	35317	958.29	ug/L	97
58) Methyl Methacrylate	6.894	69	75201	41.42	ug/L	99
59) Bromodichloromethane	7.022	83	138815	46.87	ug/L	98
60) 2-Nitropropane	7.339	41	50542	74.33	ug/L	100
61) 2-Chloroethylvinyl Ether	7.492	63	39236	48.08	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	175730	46.89	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	112206	42.97	ug/L	97
65) Toluene	8.028	91	442590	48.30	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	154293	44.56	ug/L	98
67) Ethyl Methacrylate	8.510	69	138940	43.24	ug/L	97
68) 1,1,2-Trichloroethane	8.534	97	92953	45.51	ug/L	97
71) Tetrachloroethene	8.674	164	82954	44.62	ug/L	98
72) 2-Hexanone	8.876	43	81895	43.85	ug/L	98
73) 1,3-Dichloropropane	8.717	76	168364	47.83	ug/L	99
74) Dibromochloromethane	8.967	129	100977	44.12	ug/L	98
75) N-Butyl Acetate	9.058	43	179867	42.42	ug/L	99
76) 1,2-Dibromoethane	9.064	107	95082	46.29	ug/L	97
77) Chlorobenzene	9.613	112	295742	48.11	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	101913	45.69	ug/L	97
79) Ethylbenzene	9.753	106	151990	47.10	ug/L	100
80) (m+p)Xylene	9.875	106	383227	94.82	ug/L	98
81) o-Xylene	10.253	106	188659	47.16	ug/L	97
82) Styrene	10.265	104	331351	47.93	ug/L	99
83) Bromoform	10.418	173	62444	41.22	ug/L	97
84) Isopropylbenzene	10.613	105	481321	46.55	ug/L	99
85) Cyclohexanone	10.668	55	571326	1241.90	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.936	53	31915	43.01	ug/L	91
88) 1,1,2,2-Tetrachloroethane	10.887	83	119987	41.65	ug/L	99
89) Bromobenzene	10.851	156	125448	46.52	ug/L	94
90) 1,2,3-Trichloropropane	10.906	110	40086	43.68	ug/L	98
91) n-Propylbenzene	10.985	91	564448	47.76	ug/L	99
92) 2-Chlorotoluene	11.040	91	342239	48.04	ug/L	98
93) 4-Chlorotoluene	11.137	91	407731	47.86	ug/L	99
94) 1,3,5-Trimethylbenzene	11.149	105	410932	47.52	ug/L	100
95) tert-Butylbenzene	11.424	119	343682	45.48	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	419310	47.85	ug/L	99
97) sec-Butylbenzene	11.613	105	509723	45.97	ug/L	99
98) p-Isopropyltoluene	11.741	119	438836	46.03	ug/L	99
99) 1,3-Dclbenz	11.686	146	249209	47.76	ug/L	100
100) 1,4-Dclbenz	11.765	146	248779	46.49	ug/L	98
101) n-Butylbenzene	12.082	91	408624	46.84	ug/L	99
102) 1,2-Dclbenz	12.070	146	239523	47.27	ug/L	97
103) 1,2-Dibromo-3-chloropr...	12.704	157	23182	35.01	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5025.D  
Acq On : 17 Feb 2018 2:35 pm  
Operator : F. NAEGLER  
Sample : CCV Inst : MSVOA14  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 17 14:51:33 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	186335	44.55	ug/L	99
105) 1,2,4-Tcbenzene	13.369	180	150536	38.51	ug/L	98
106) Hexachlorobt	13.515	225	74813	35.85	ug/L	97
107) Naphthalen	13.558	128	303224	32.00	ug/L	99
108) 1,2,3-Tclbenzene	13.746	180	121028	32.85	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

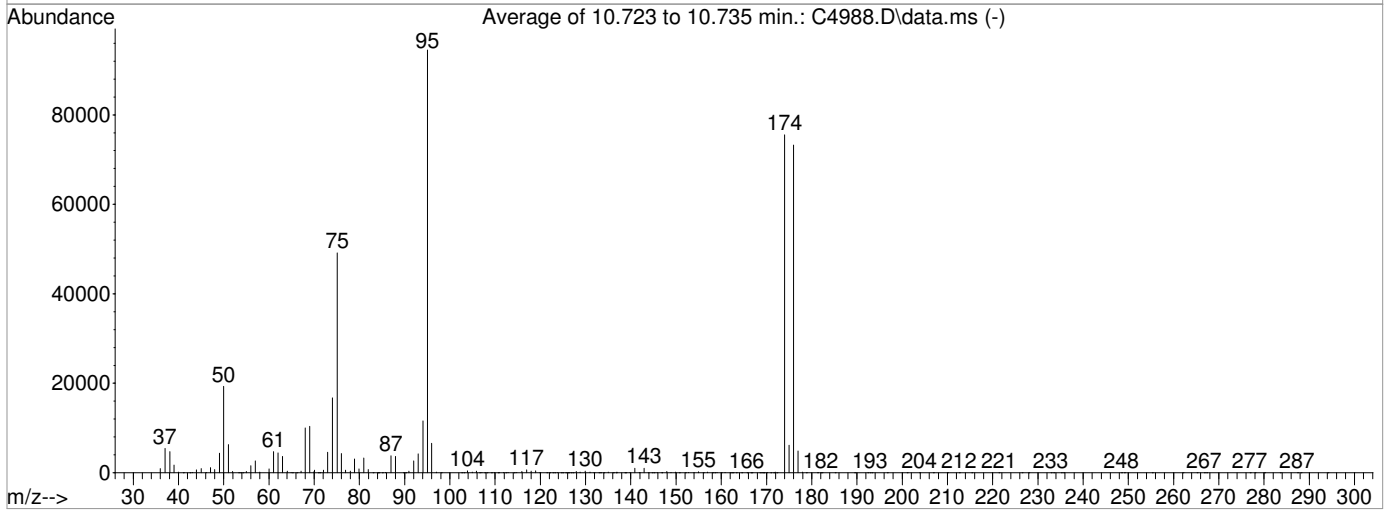
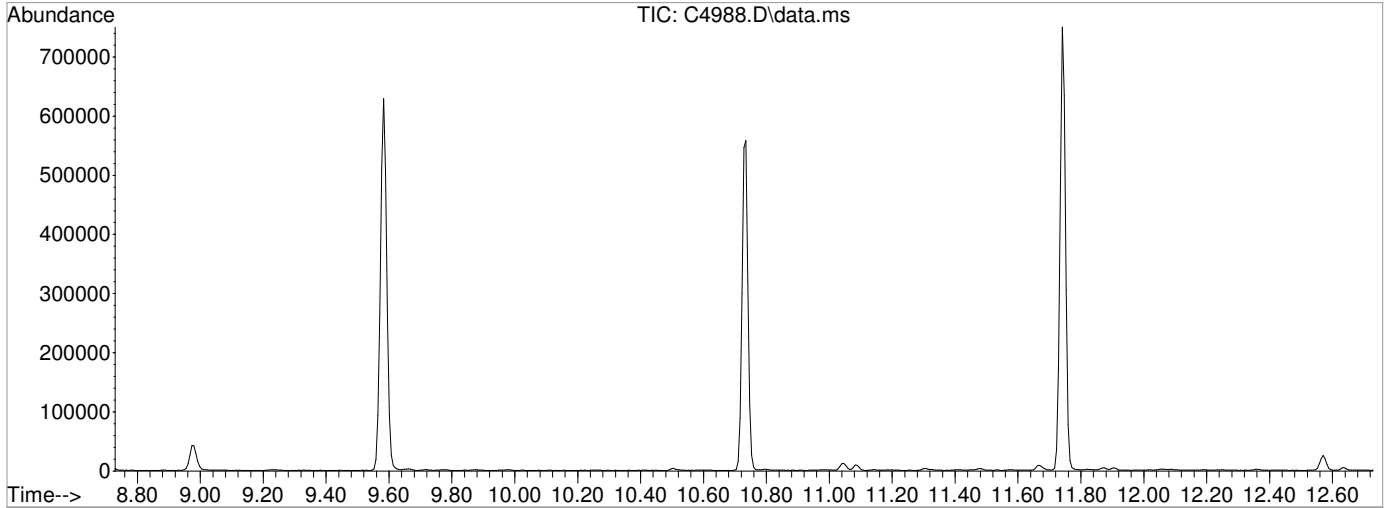




Data Path : I:\ACQUDATA\MSVOA14\Data\021618\  
Data File : C4988.D  
Acq On : 16 Feb 2018 10:24 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 3 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Title : MS#14 - 8260 SOILS 10ml PURGE  
Last Update : Thu Jan 18 16:43:08 2018



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1592

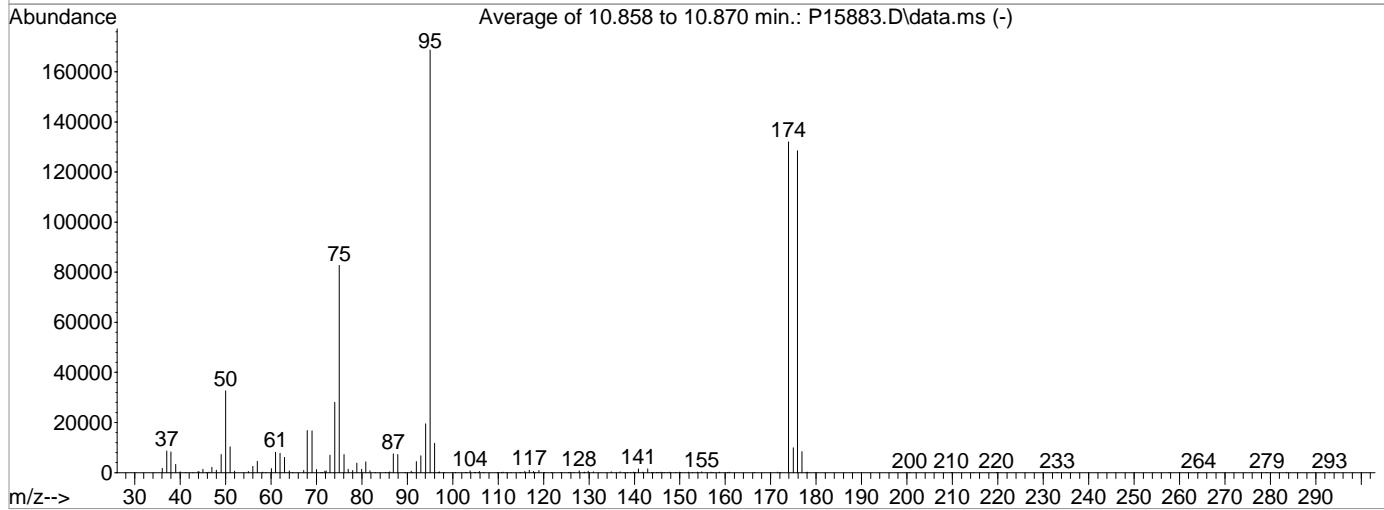
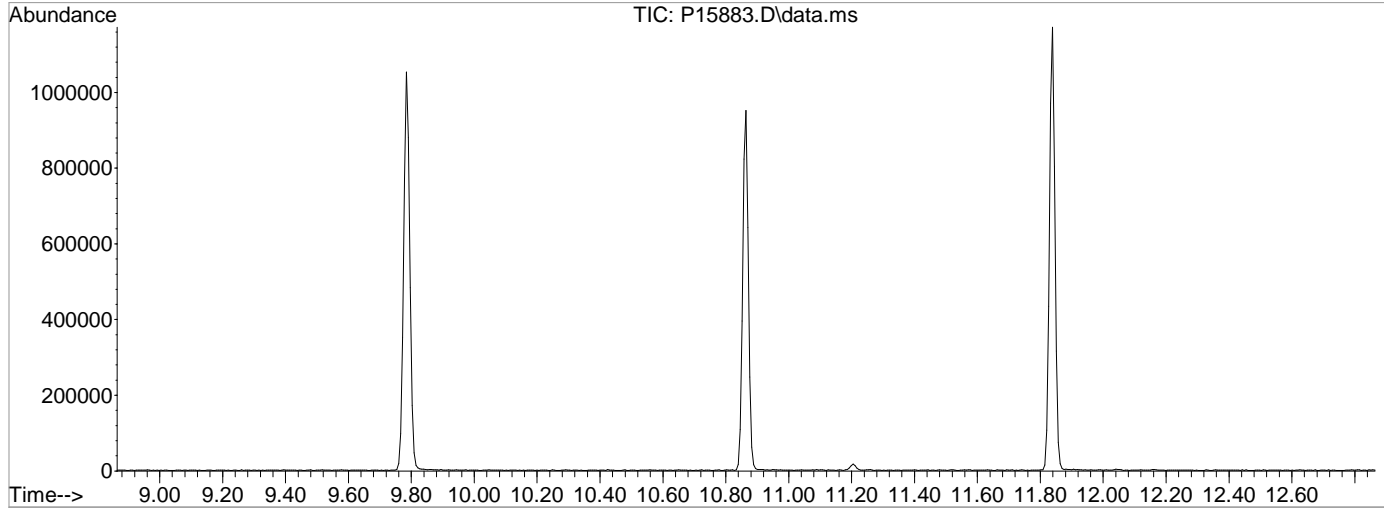
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	19312	PASS
75	95	30	60	52.0	49128	PASS
95	95	100	100	100.0	94489	PASS
96	95	5	9	7.0	6587	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.0	75560	PASS
175	174	5	9	8.1	6149	PASS
176	174	95	101	96.9	73224	PASS
177	176	5	9	6.6	4837	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\022018\  
Data File : P15883.D  
Acq On : 20 Feb 2018 10:24 am  
Operator : K.Ruest  
Sample : TUNE  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Title : MS#12 - 8260B WATERS 10mL Purge  
Last Update : Tue Jan 02 13:02:22 2018



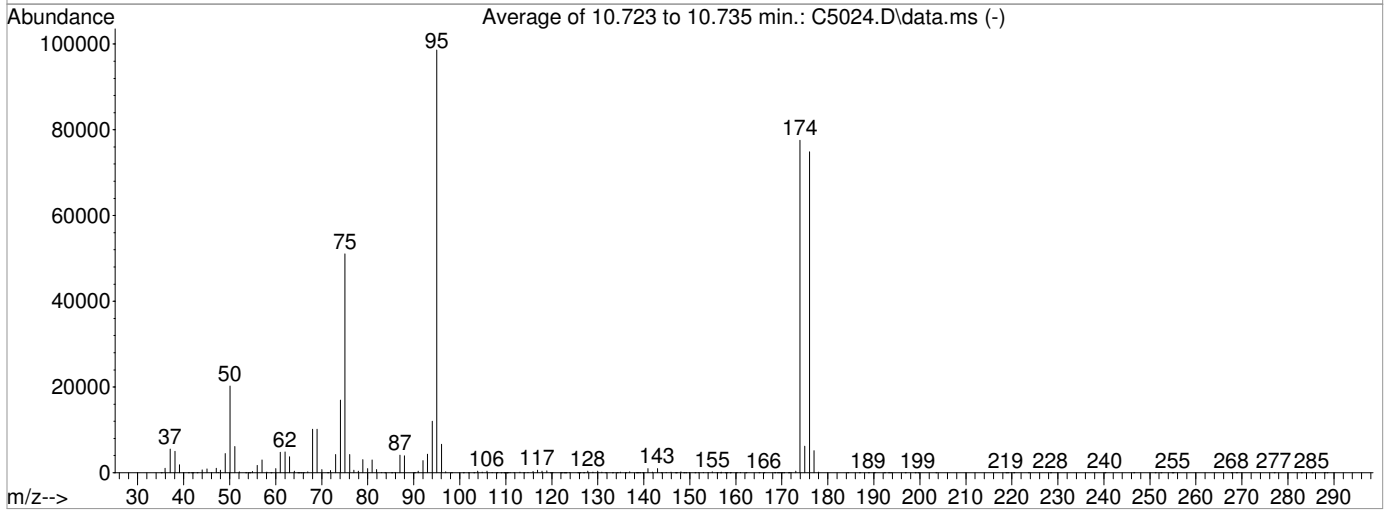
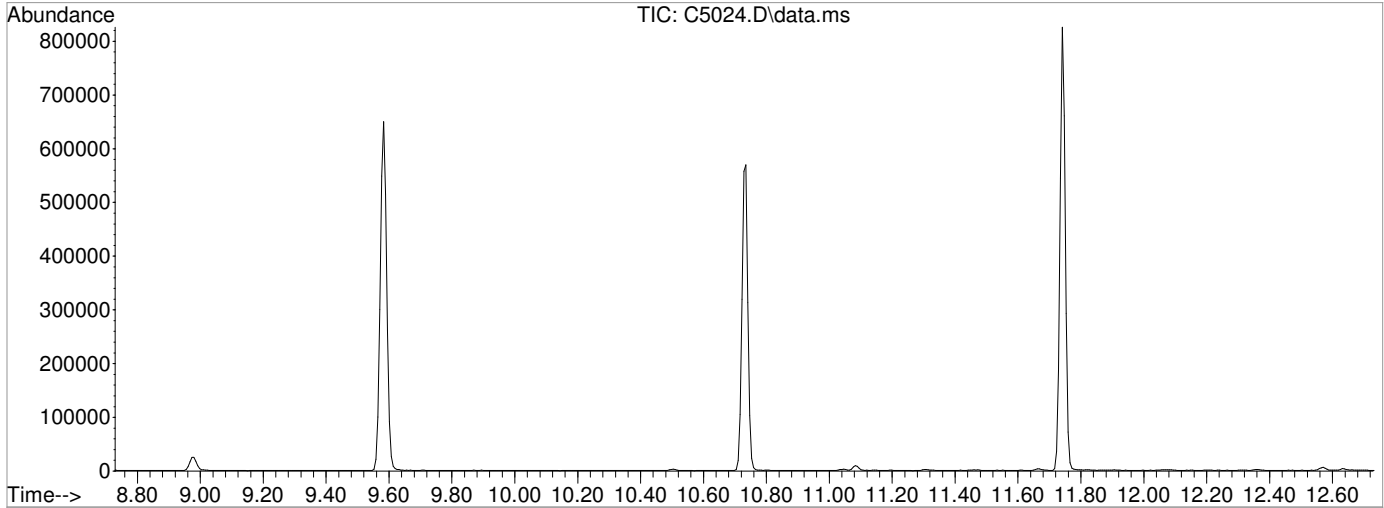
AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1593

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	32664	PASS
75	95	30	60	49.0	82765	PASS
95	95	100	100	100.0	168763	PASS
96	95	5	9	6.9	11636	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.2	132045	PASS
175	174	5	9	7.5	9924	PASS
176	174	95	101	97.3	128451	PASS
177	176	5	9	6.5	8315	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\021718\  
Data File : C5024.D  
Acq On : 17 Feb 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Title : MS#14 - 8260 SOILS 10ml PURGE  
Last Update : Thu Jan 18 16:43:08 2018



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1592

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	20263	PASS
75	95	30	60	51.8	51041	PASS
95	95	100	100	100.0	98608	PASS
96	95	5	9	6.8	6679	PASS
173	174	0.00	2	0.5	362	PASS
174	95	50	120	78.7	77566	PASS
175	174	5	9	8.0	6189	PASS
176	174	95	101	96.5	74885	PASS
177	176	5	9	6.9	5152	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4464.D  
 Acq On : 18 Jan 2018 4:23 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 18 16:41:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:55:26 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	240185	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	362588	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	321129	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	168655	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	40452	17.83	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	35.66%#		
47) SURR1,1,2-dichloroetha...	5.120	65	49407	18.15	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	36.30%#		
64) SURR3,Toluene-d8	7.949	98	158998	18.41	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	36.82%#		
69) SURR2,BFB	10.729	95	65682	18.71	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	37.42%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	58411	18.81	ug/L	99
3) Chloromethane	1.151	50	66909	17.62	ug/L	100
4) Vinyl Chloride	1.212	62	55018	19.16	ug/L	97
5) Bromomethane	1.414	94	40044	22.52	ug/L	98
6) Chloroethane	1.481	64	33115	20.77	ug/L	99
7) Freon 21	1.603	67	81671	19.12	ug/L	100
8) Trichlorofluoromethane	1.645	101	57992	17.68	ug/L	99
9) Diethyl Ether	1.846	59	42642	20.23	ug/L	97
10) Freon 123a	1.846	67	50111	18.59	ug/L	100
11) Freon 123	1.889	83	58803	19.02	ug/L	99
12) Acrolein	1.932	56	48802	92.43	ug/L	98
13) 1,1-Dicethene	2.011	96	38688	18.19	ug/L	98
14) Freon 113	2.017	101	35301	16.88	ug/L	99
15) Acetone	2.042	43	20927	18.66	ug/L	98
16) 2-Propanol	2.157	45	88030	349.19	ug/L	99
17) Iodomethane	2.121	142	29839	16.68	ug/L	98
18) Carbon Disulfide	2.176	76	141057	19.51	ug/L	99
19) Acetonitrile	2.255	40	17393	107.56	ug/L	96
20) Allyl Chloride	2.292	76	20223	19.67	ug/L	95
21) Methyl Acetate	2.310	43	37043	17.62	ug/L	99
22) Methylene Chloride	2.389	84	48189	19.06	ug/L	98
23) TBA	2.505	59	168727	375.50	ug/L	99
24) Acrylonitrile	2.602	53	97021	97.59	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	154347	19.75	ug/L	97
26) trans-1,2-Dichloroethene	2.645	96	45223	18.68	ug/L	96
27) 1,1-Dicethane	3.066	63	83395	19.53	ug/L	99
28) Vinyl Acetate	3.145	86	10953	18.04	ug/L	97
29) DIPE	3.182	45	172787	21.02	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	75120	19.61	ug/L	100
31) ETBE	3.639	59	169673	20.76	ug/L	99
32) 2,2-Dichloropropane	3.779	77	70472	18.39	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	53765	19.36	ug/L	96
34) 2-Butanone	3.828	43	26767	17.66	ug/L	99
35) Propionitrile	3.889	54	38431	92.57	ug/L	99
36) Bromochloromethane	4.120	130	34382	20.64	ug/L	93
37) Methacrylonitrile	4.127	67	22228	19.44	ug/L	88
38) Tetrahydrofuran	4.212	42	17634	18.73	ug/L	96
39) Chloroform	4.279	83	84687	19.54	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	68852	18.41	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4464.D  
 Acq On : 18 Jan 2018 4:23 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 16:41:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:55:26 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	161800	20.48	ug/L	98
43) Cyclohexane	4.645	41	45208	19.07	ug/L	96
45) Carbontetrachloride	4.846	121	17961	17.54	ug/L	93
46) 1,1-Dichloropropene	4.852	75	59980	18.24	ug/L	98
48) Benzene	5.218	78	182772	19.15	ug/L	100
49) 1,2-Dichloroethane	5.260	62	70459	19.50	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	65497	363.46	ug/L	97
51) n-Heptane	5.803	43	49122	15.94	ug/L	95
52) 1-Butanol	6.370	56	109304	985.38	ug/L	100
53) Trichloroethene	6.303	130	49428	18.69	ug/L	95
54) Methylcyclohexane	6.571	55	62290	18.47	ug/L	97
55) 1,2-Diclpropane	6.614	63	51309	19.70	ug/L	92
56) Dibromomethane	6.766	93	31967	20.00	ug/L	99
57) 1,4-Dioxane	6.852	88	16179	382.76	ug/L	93
58) Methyl Methacrylate	6.894	69	40124	19.36	ug/L	93
59) Bromodichloromethane	7.028	83	65660	19.50	ug/L	99
60) 2-Nitropropane	7.339	41	27256	35.00	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	18456	19.71	ug/L	91
62) cis-1,3-Dichloropropene	7.632	75	84356	19.70	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	54551	18.17	ug/L	98
65) Toluene	8.028	91	202467	19.51	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	78416	19.85	ug/L	95
67) Ethyl Methacrylate	8.510	69	72362	19.70	ug/L	96
68) 1,1,2-Trichloroethane	8.534	97	45125	19.37	ug/L	96
71) Tetrachloroethene	8.674	164	37769	17.85	ug/L	96
72) 2-Hexanone	8.869	43	40233	18.53	ug/L	99
73) 1,3-Dichloropropane	8.717	76	81120	20.15	ug/L	99
74) Dibromochloromethane	8.967	129	51164	19.52	ug/L	97
75) N-Butyl Acetate	9.058	43	90785	18.55	ug/L	99
76) 1,2-Dibromoethane	9.058	107	45932	19.41	ug/L	99
77) Chlorobenzene	9.613	112	140154	20.02	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	51591	20.35	ug/L	96
79) Ethylbenzene	9.753	106	69894	19.08	ug/L	96
80) (m+p)Xylene	9.875	106	176120	38.35	ug/L	99
81) o-Xylene	10.253	106	90391	19.89	ug/L	99
82) Styrene	10.266	104	157745	20.02	ug/L	98
83) Bromoform	10.418	173	34006	19.55	ug/L	100
84) Isopropylbenzene	10.607	105	216410	18.42	ug/L	99
85) Cyclohexanone	10.662	55	186695	347.71	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.936	53	16907	19.96	ug/L	90
88) 1,1,2,2-Tetrachloroethane	10.887	83	65714	20.41	ug/L	99
89) Bromobenzene	10.851	156	62514	20.84	ug/L	99
90) 1,2,3-Trichloropropane	10.906	110	20589	19.96	ug/L	99
91) n-Propylbenzene	10.985	91	249563	19.07	ug/L	100
92) 2-Chlorotoluene	11.040	91	160727	20.34	ug/L	99
93) 4-Chlorotoluene	11.137	91	192407	20.35	ug/L	98
94) 1,3,5-Trimethylbenzene	11.150	105	187933	19.62	ug/L	100
95) tert-Butylbenzene	11.424	119	155773	18.55	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	194950	20.05	ug/L	99
97) sec-Butylbenzene	11.613	105	221765	18.01	ug/L	100
98) p-Isopropyltoluene	11.741	119	195903	18.53	ug/L	100
99) 1,3-Dclbenz	11.686	146	119859	20.73	ug/L	97
100) 1,4-Dclbenz	11.765	146	122607	20.65	ug/L	99
101) n-Butylbenzene	12.082	91	175202	18.05	ug/L	99
102) 1,2-Dclbenz	12.070	146	116614	20.65	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	15180	20.43	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4464.D  
Acq On : 18 Jan 2018 4:23 pm  
Operator : F. NAEGLER  
Sample : 20 PPB STD Inst : MSVOA14  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 18 16:41:52 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:55:26 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	100170	21.83	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	90661	20.88	ug/L	99
106) Hexachlorobt	13.515	225	39157	16.75	ug/L	98
107) Naphthalen	13.552	128	222373	21.06	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	85927	21.00	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

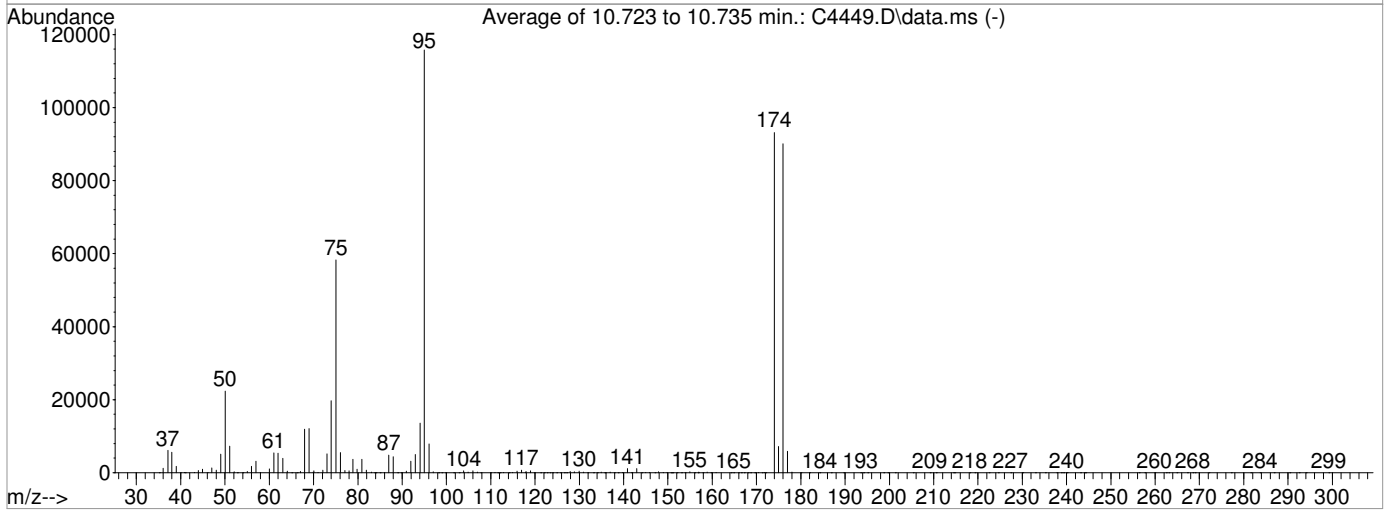
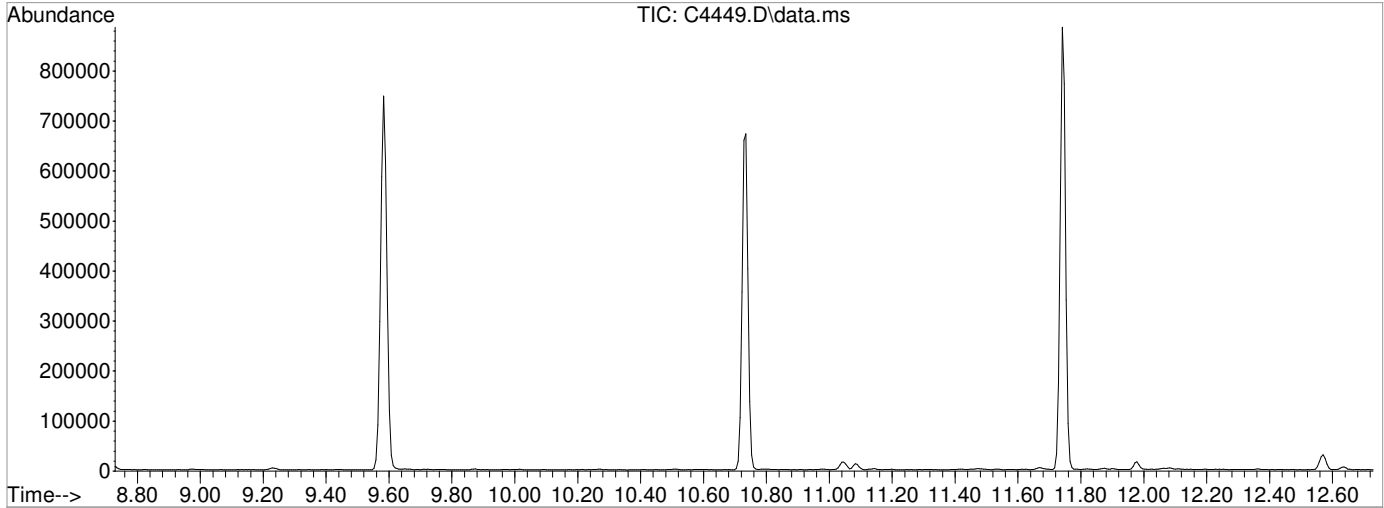




Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4449.D  
Acq On : 18 Jan 2018 11:40 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 1 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Title : MS#14 - 8260 SOILS 10ml PURGE  
Last Update : Mon Dec 19 08:34:39 2016



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	22328	PASS
75	95	30	60	50.3	58261	PASS
95	95	100	100	100.0	115765	PASS
96	95	5	9	6.8	7860	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.5	93171	PASS
175	174	5	9	7.7	7184	PASS
176	174	95	101	96.7	90107	PASS
177	176	5	9	6.6	5907	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4450.D  
 Acq On : 18 Jan 2018 12:03 pm  
 Operator : F. NAEGLER  
 Sample : ICAL BLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 08:51:29 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	252258	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	376231	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	326253	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	175584	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	117409	50.11	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	100.22%	
47) SURR1,1,2-dichloroetha...	5.120	65	144588	51.52	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	103.04%	
64) SURR3,Toluene-d8	7.949	98	460009	51.34	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	102.68%	
69) SURR2,BFB	10.735	95	182375	50.46	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	100.92%	
Target Compounds						
						Qvalue
3) Chloromethane	1.151	50	1975	0.51	ug/L	92
15) Acetone	2.048	43	2157	1.89	ug/L	84
16) 2-Propanol	2.163	45	584	2.24	ug/L #	34
18) Carbon Disulfide	2.176	76	1871	0.25	ug/L	98
22) Methylene Chloride	2.389	84	541	0.21	ug/L #	73
23) TBA	2.511	59	1553	3.34	ug/L	91
34) 2-Butanone	3.834	43	510	0.33	ug/L	74

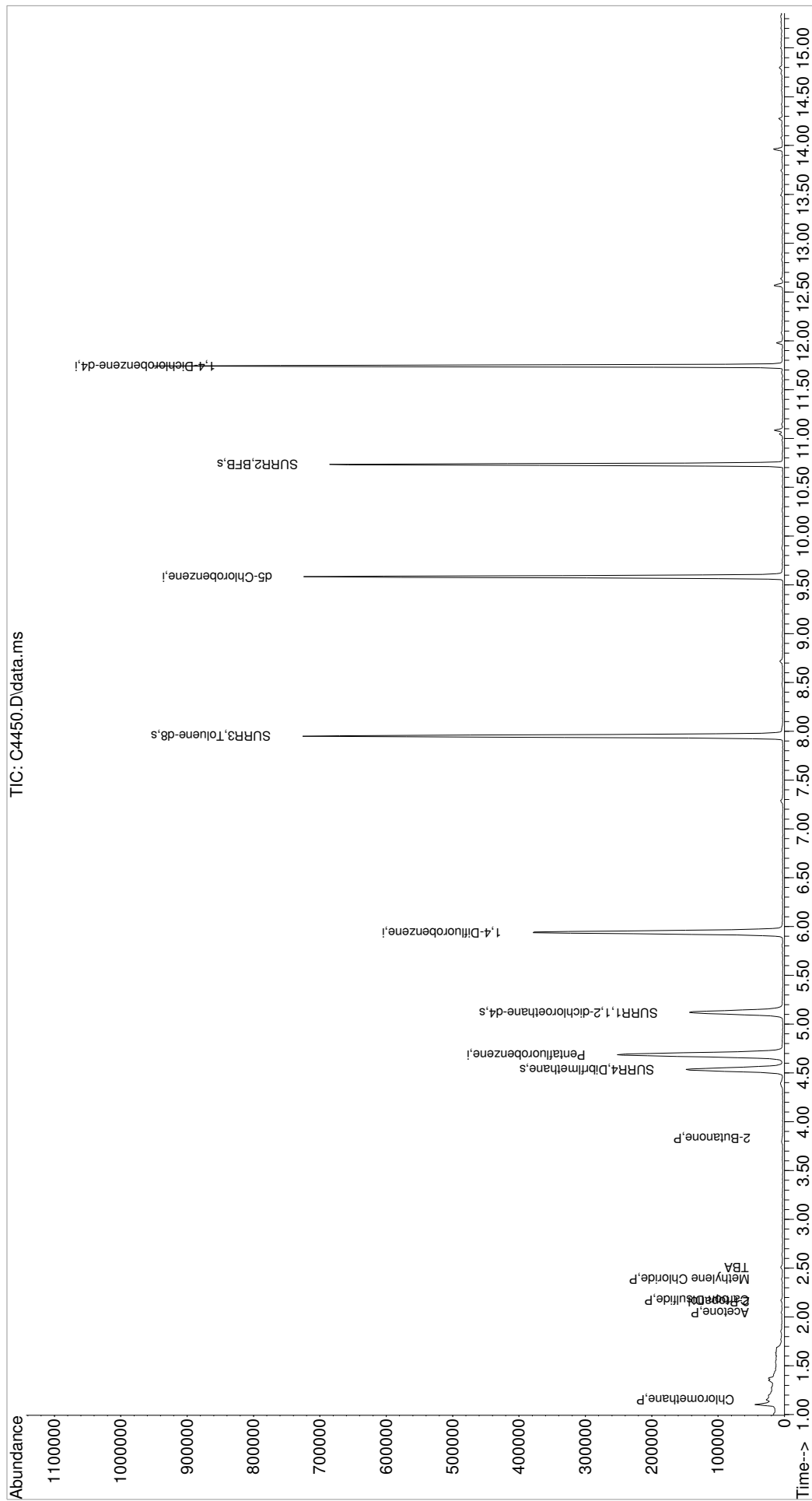
(#) = qualifier out of range (m) = manual integration (+) = signals summed

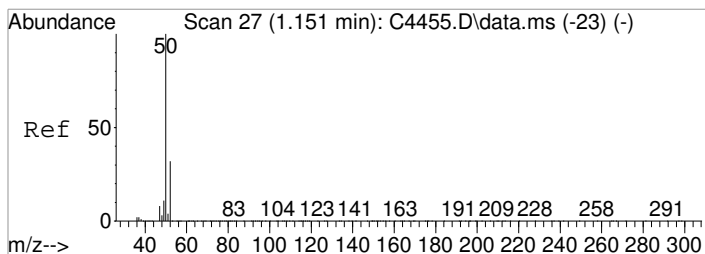
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
Data File : C4450.D  
Acq On : 18 Jan 2018 12:03 pm  
Operator : F. NAEGLER  
Sample : ICAL BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

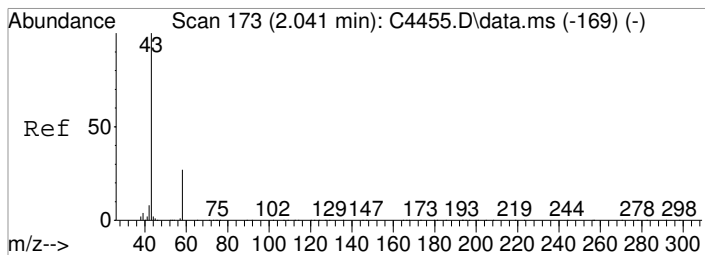
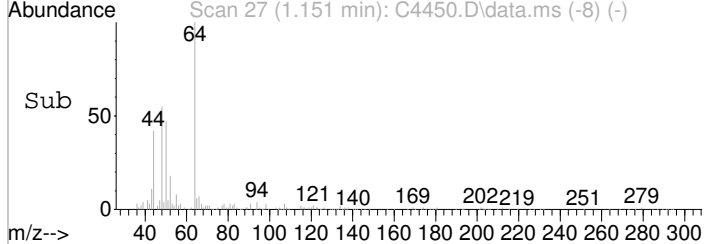
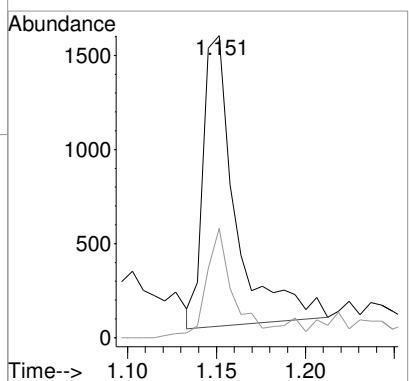
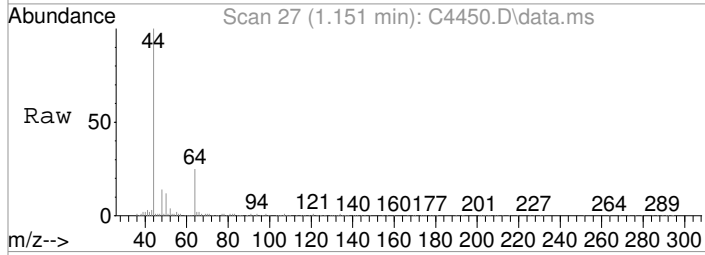
Quant Time: Jan 19 08:51:29 2018  
Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration





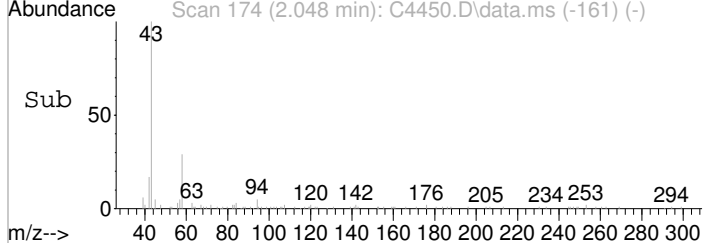
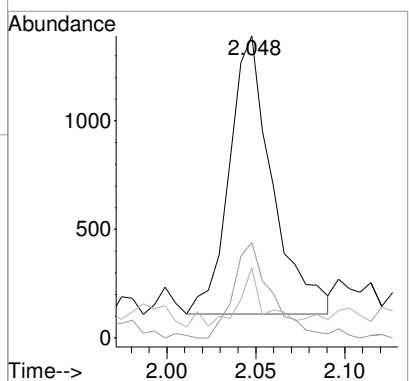
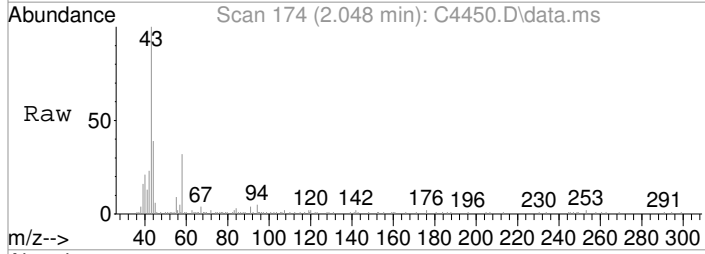
#3  
 Chloromethane  
 Concen: 0.51 ug/L  
 RT: 1.151 min Scan# 27  
 Delta R.T. 0.000 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

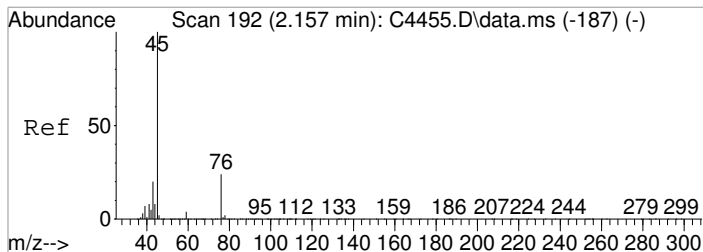
Tgt Ion	Resp	Lower	Upper
50	100		
52	36.3	12.0	52.0



#15  
 Acetone  
 Concen: 1.89 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.007 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

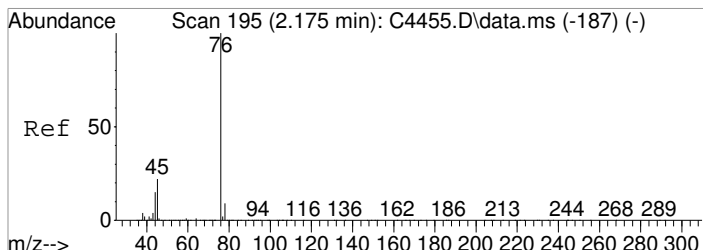
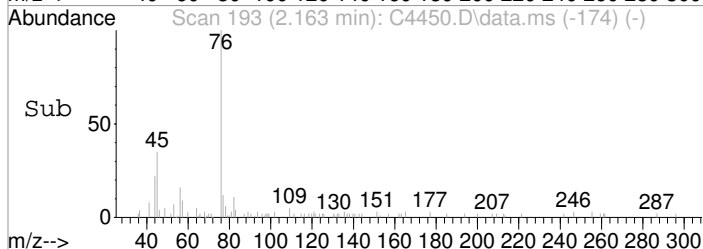
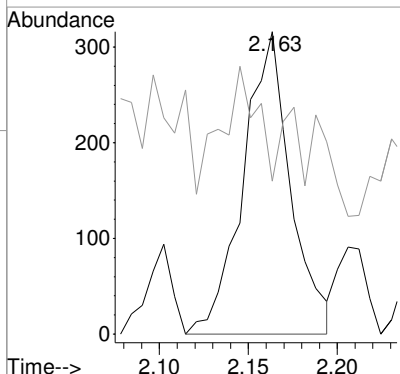
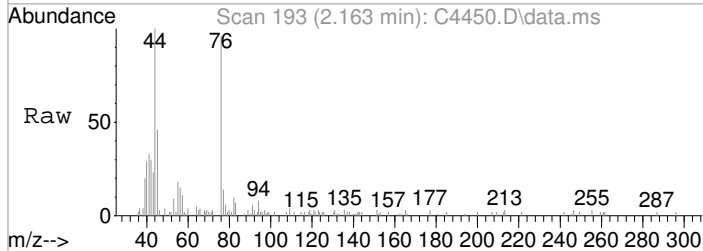
Tgt Ion	Resp	Lower	Upper
43	100		
58	31.6	7.1	47.1
42	23.2	0.0	28.6





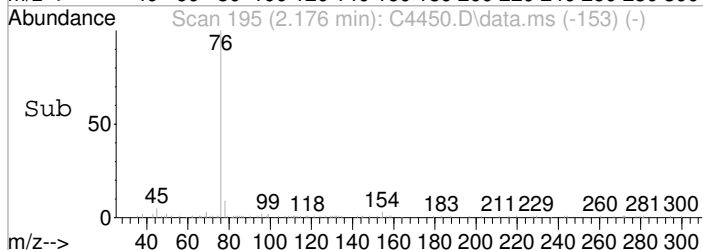
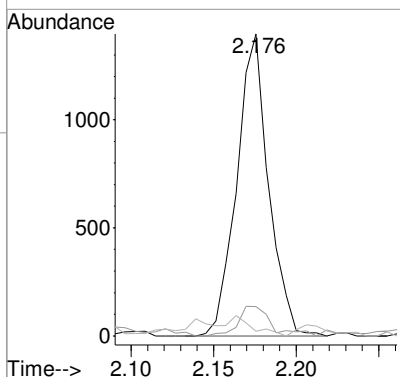
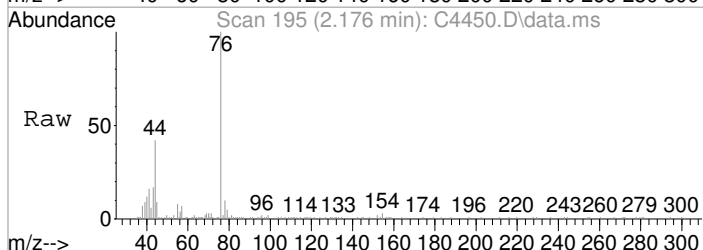
#16  
 2-Propanol  
 Concen: 2.24 ug/L  
 RT: 2.163 min Scan# 193  
 Delta R.T. 0.006 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

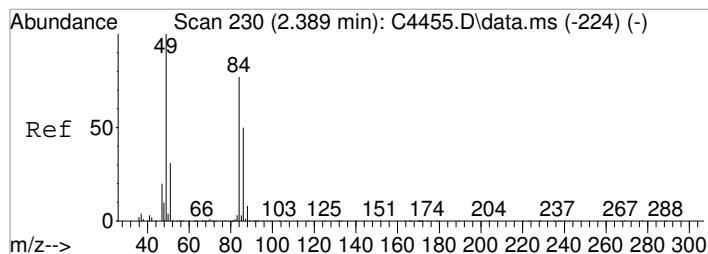
Tgt Ion	Resp	Lower	Upper
45	100		
43	50.6	0.1	40.1#



#18  
 Carbon Disulfide  
 Concen: 0.25 ug/L  
 RT: 2.176 min Scan# 195  
 Delta R.T. 0.000 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

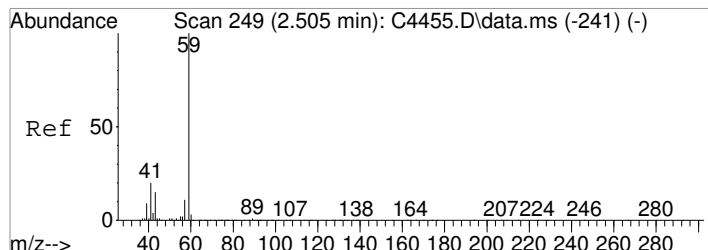
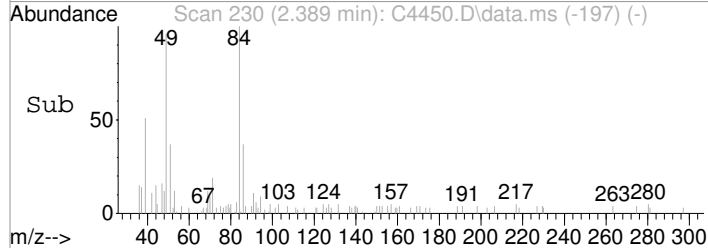
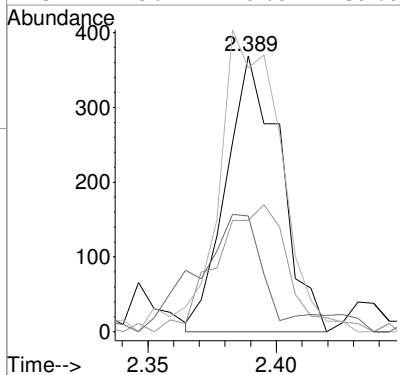
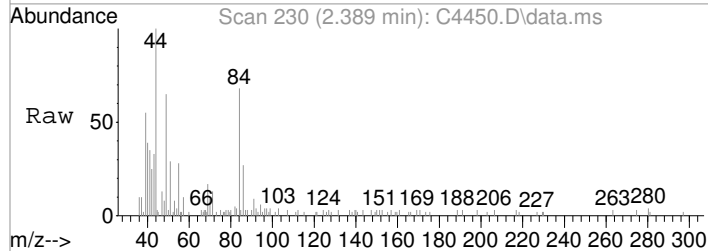
Tgt Ion	Resp	Lower	Upper
76	100		
78	9.7	0.0	28.9
77	1.6	0.0	22.4





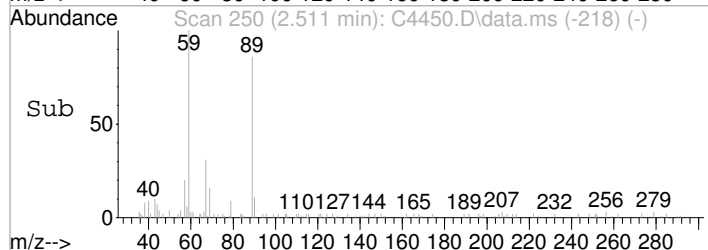
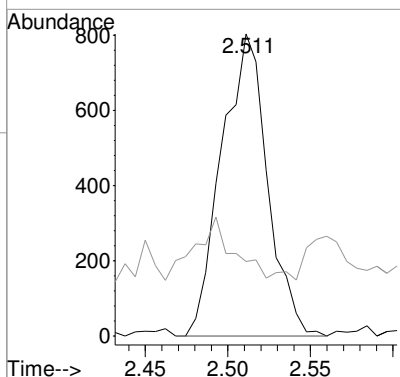
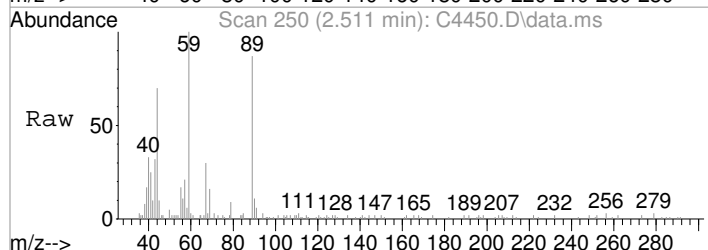
#22  
 Methylene Chloride  
 Concen: 0.21 ug/L  
 RT: 2.389 min Scan# 230  
 Delta R.T. 0.000 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

Tgt Ion	Resp	Lower	Upper
84	100		
86	38.8	43.9	83.9#
49	91.9	109.1	149.1#
51	40.4	19.9	59.9

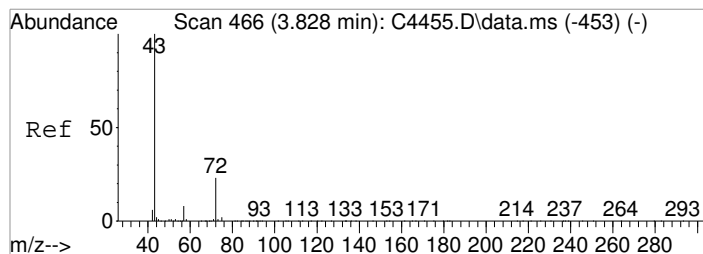


#23  
 TBA  
 Concen: 3.34 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

Tgt Ion	Resp	Lower	Upper
59	100		
41	24.7	0.3	40.3

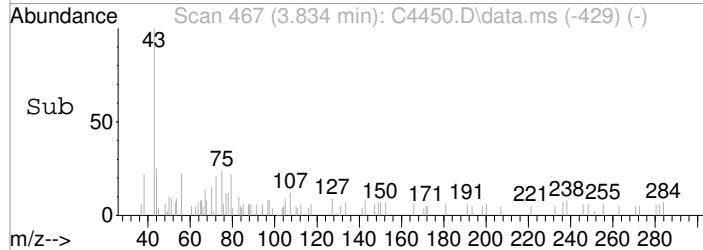
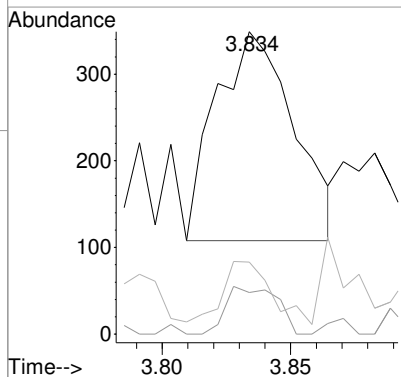
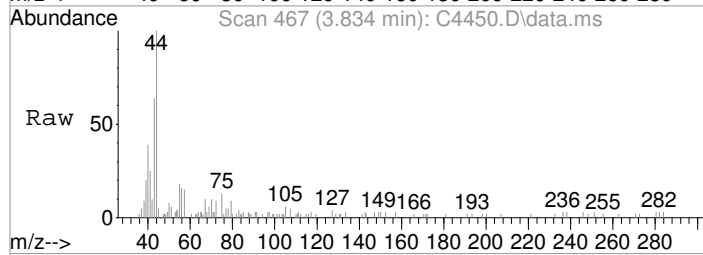






#34  
 2-Butanone  
 Concen: 0.33 ug/L  
 RT: 3.834 min Scan# 467  
 Delta R.T. 0.007 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

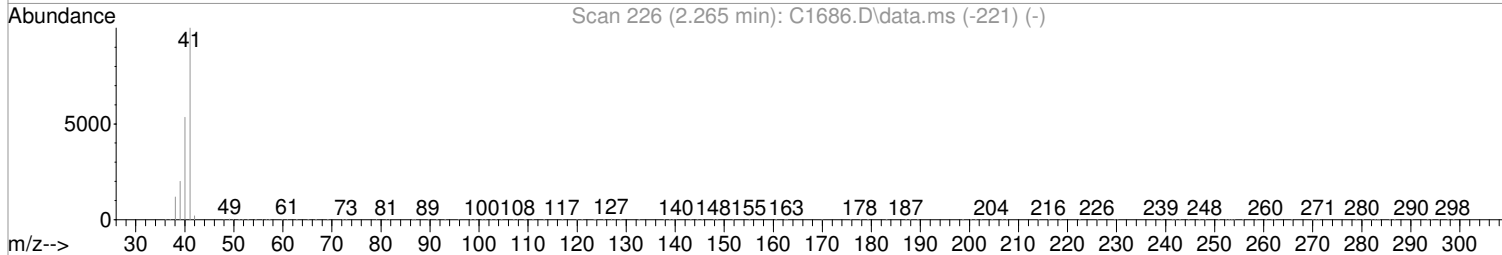
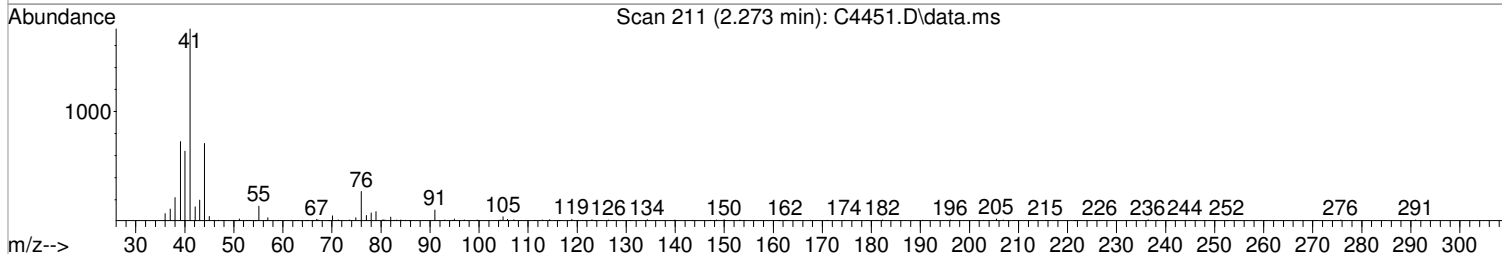
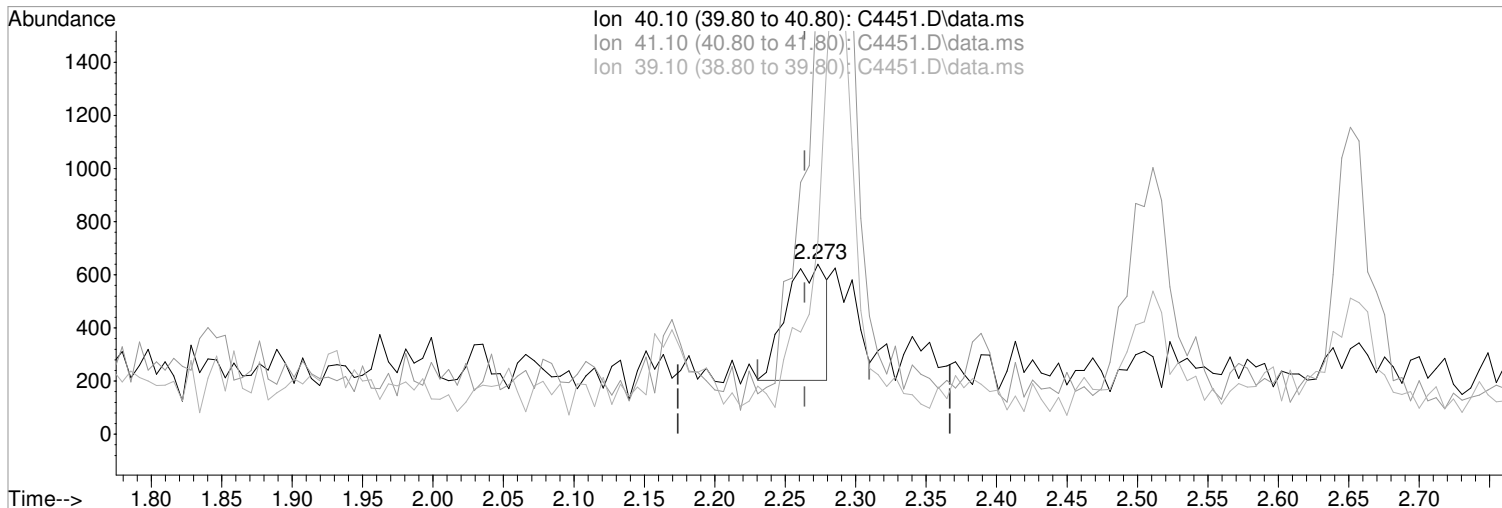
Tgt Ion	43	72	57	Resp	Lower	Upper
43	100			510		
72		13.8			3.3	43.3
57			23.8		0.0	28.0



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(19) Acetonitrile

2.273min (+0.009) 5.52 ug/L m

response 875

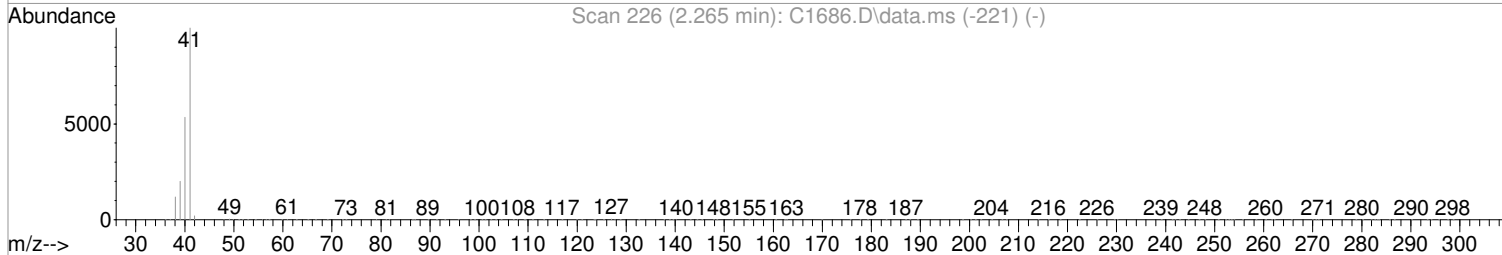
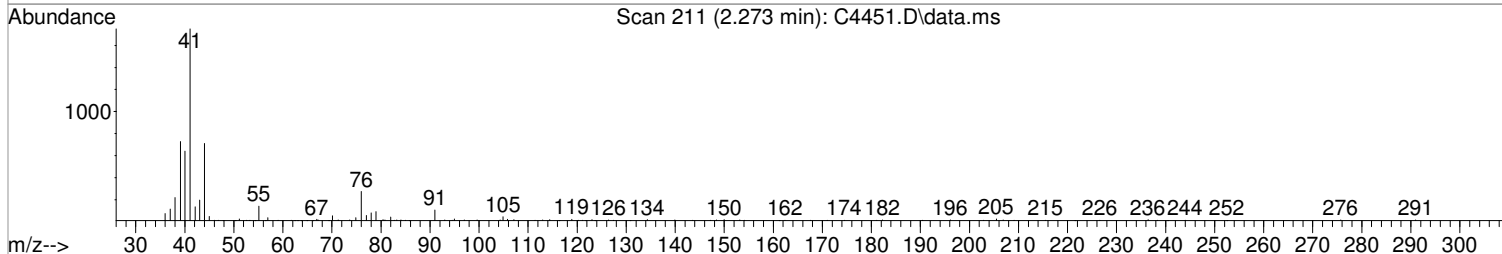
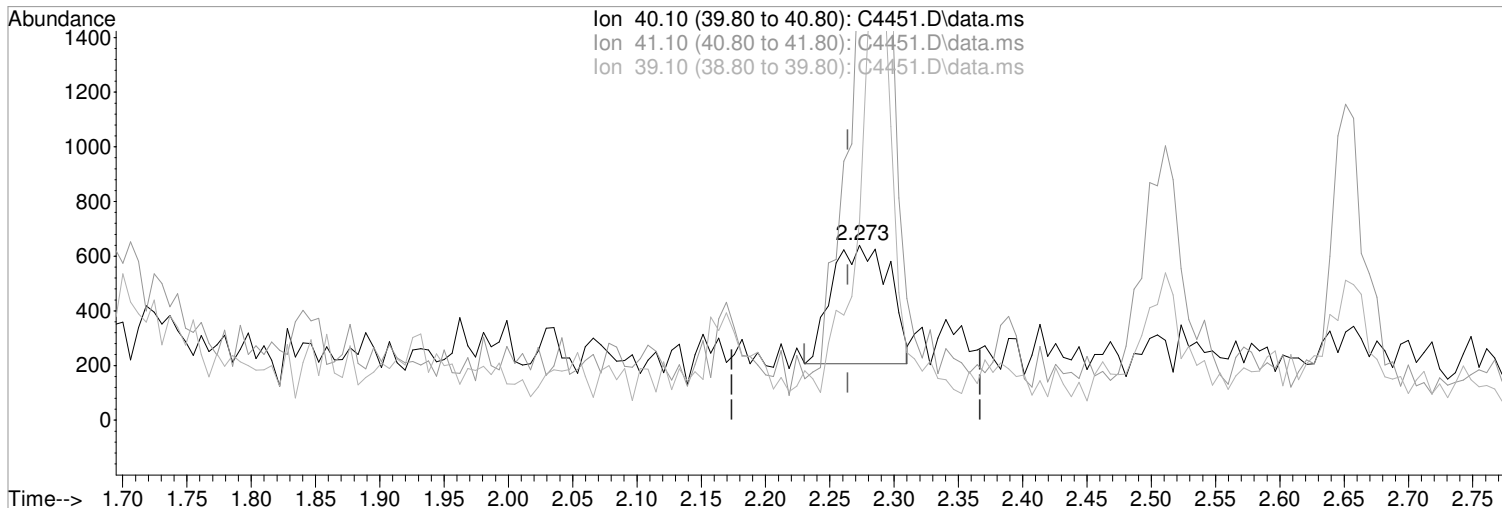
Ion	Exp%	Act%
40.10	100	100
41.10	186.50	273.44#
39.10	41.10	113.59#
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

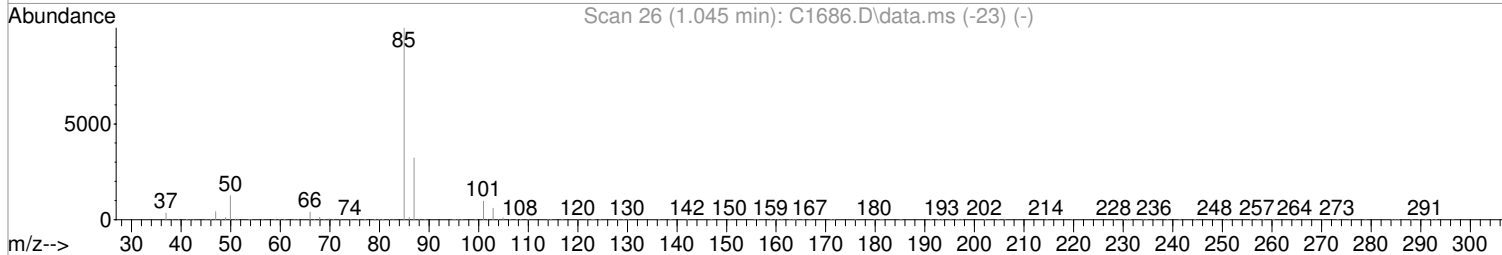
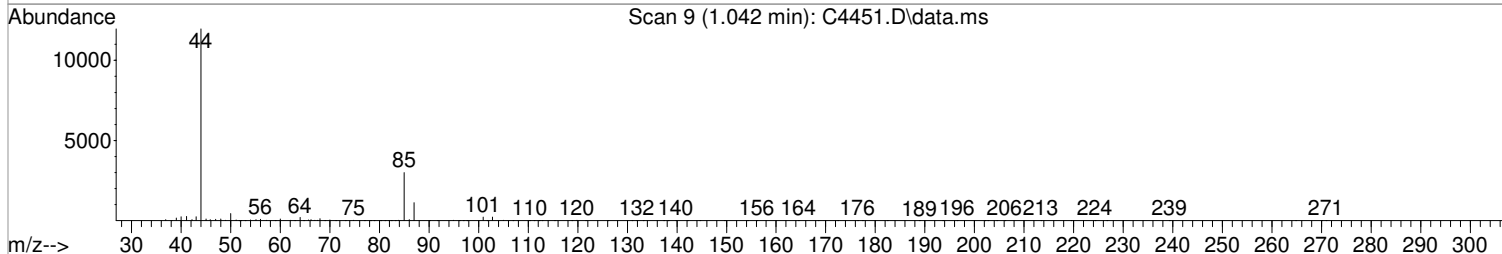
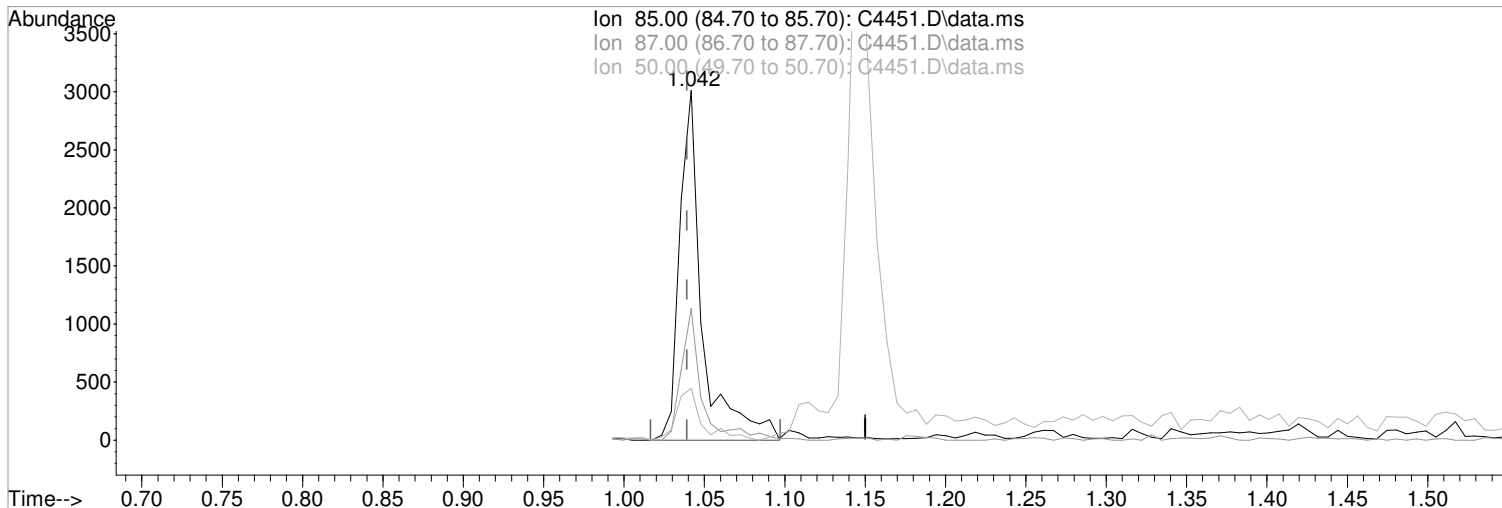
(19) Acetonitrile  
2.273min (+0.009) 8.54 ug/L  
response 1354  
Ion Exp% Act%  
40.10 100 100  
41.10 186.50 273.44#  
39.10 41.10 113.59#  
0.00 0.00 0.00

Manual Integration:  
Before  
01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (+0.002) 0.90 ug/L m  
response 2954

Ion	Exp%	Act%
85.00	100	100
87.00	32.30	37.70
50.00	12.50	14.85
0.00	0.00	0.00

Manual Integration:

After

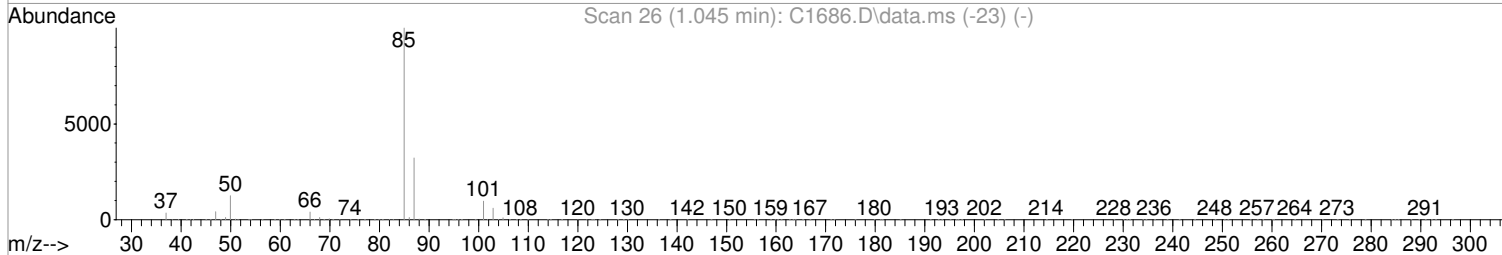
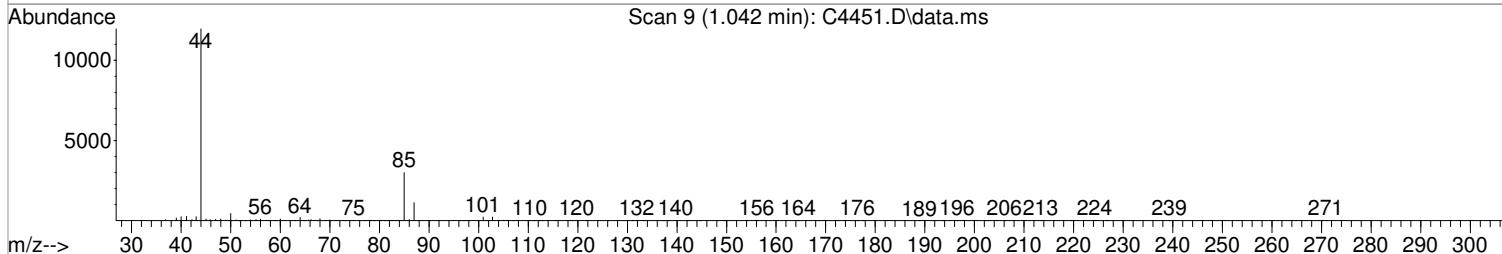
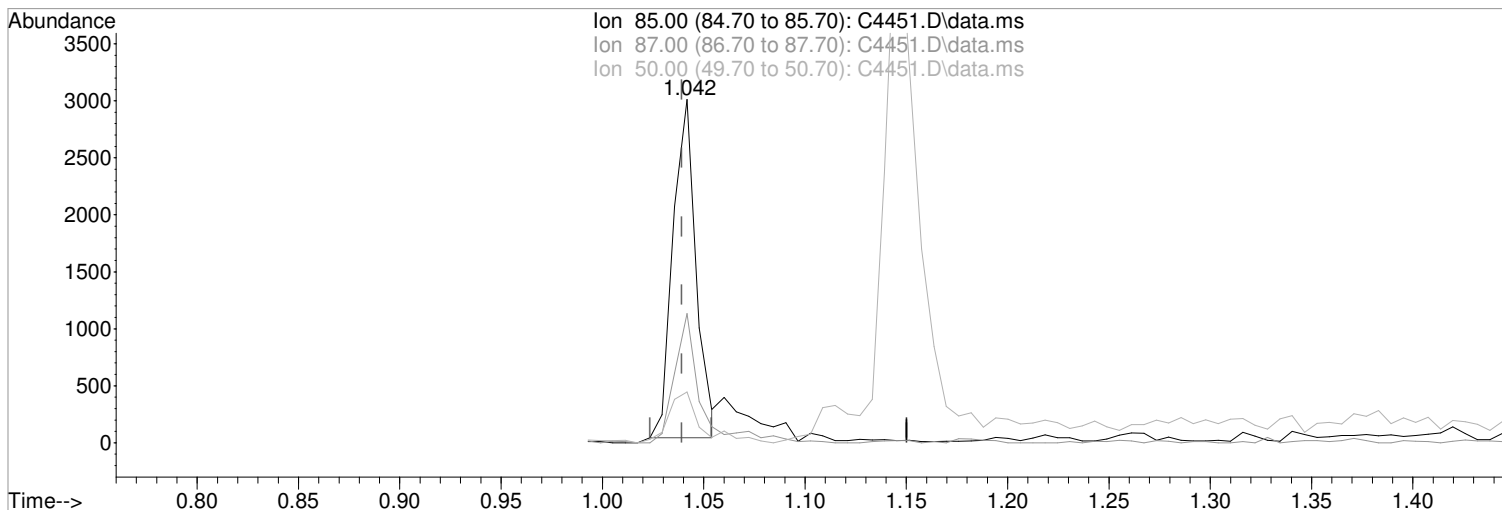
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

Manual Integration:

1.042min (+0.002) 0.72 ug/L

Before

response 2345

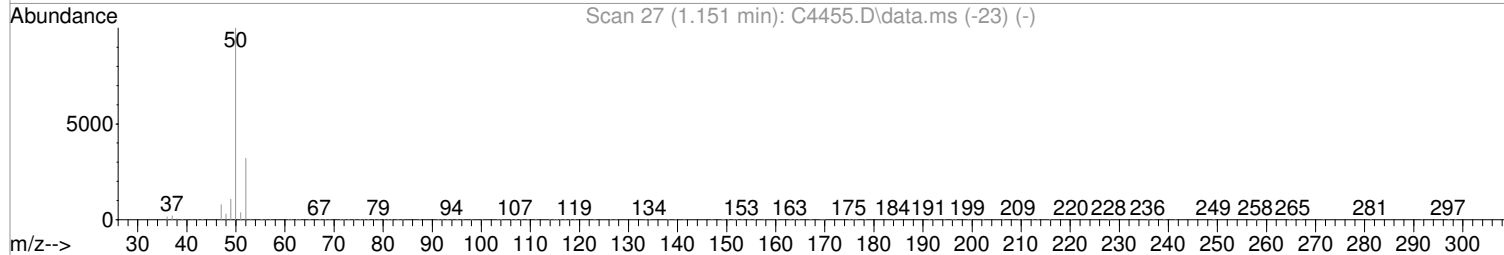
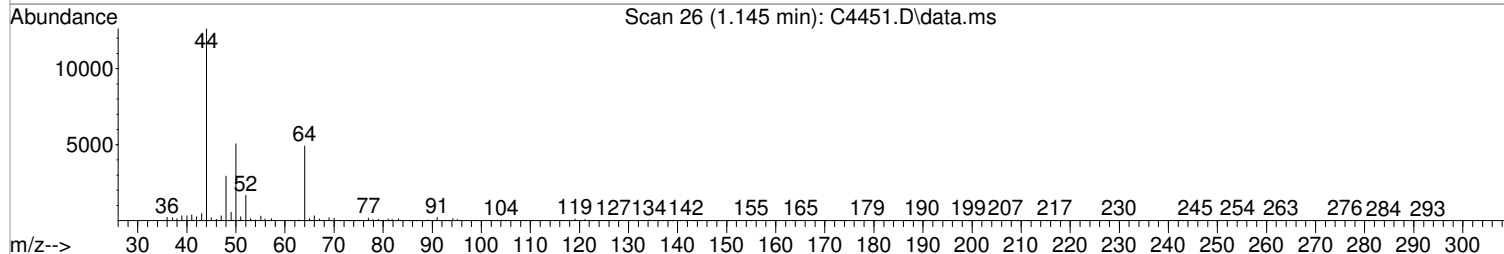
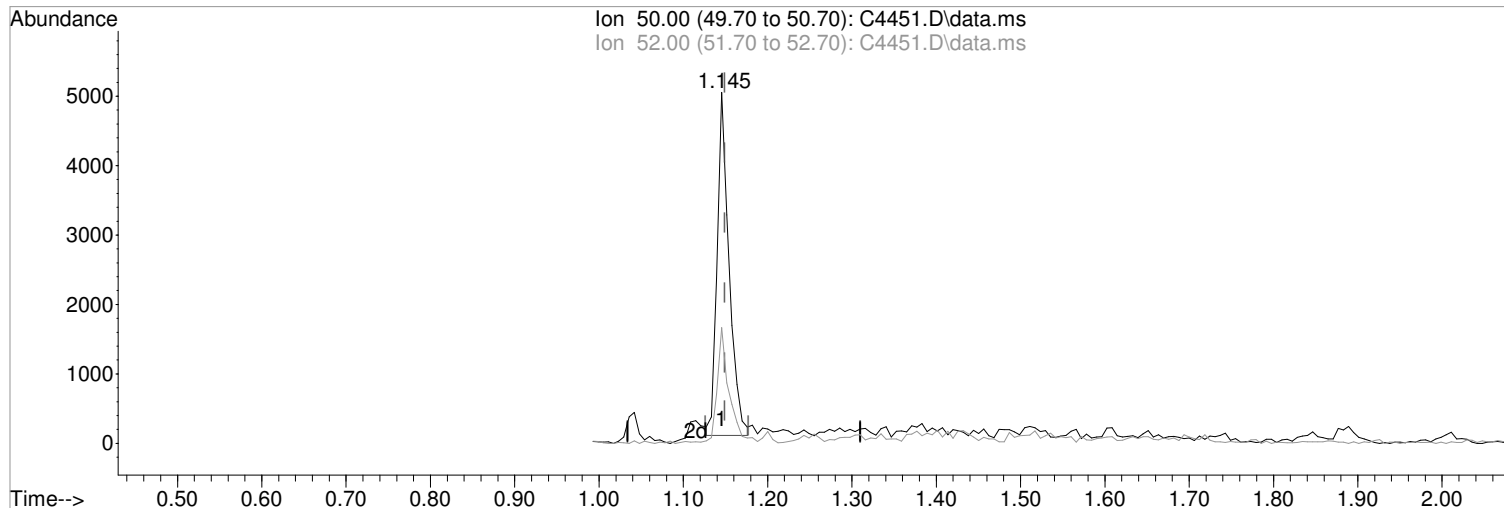
Ion	Exp%	Act%
85.00	100	100
87.00	32.30	37.70
50.00	12.50	14.85
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(3) Chloromethane (P)  
1.145min (-0.004) 1.25 ug/L m  
response 4868

Manual Integration:  
After  
Poor integration.

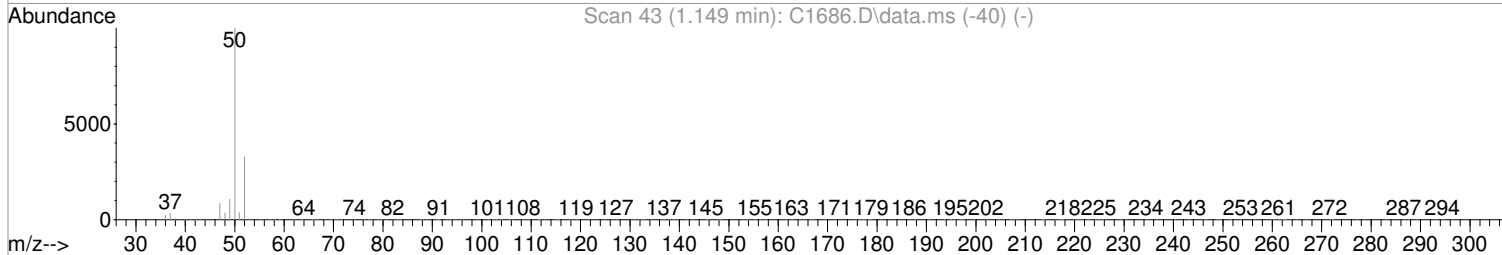
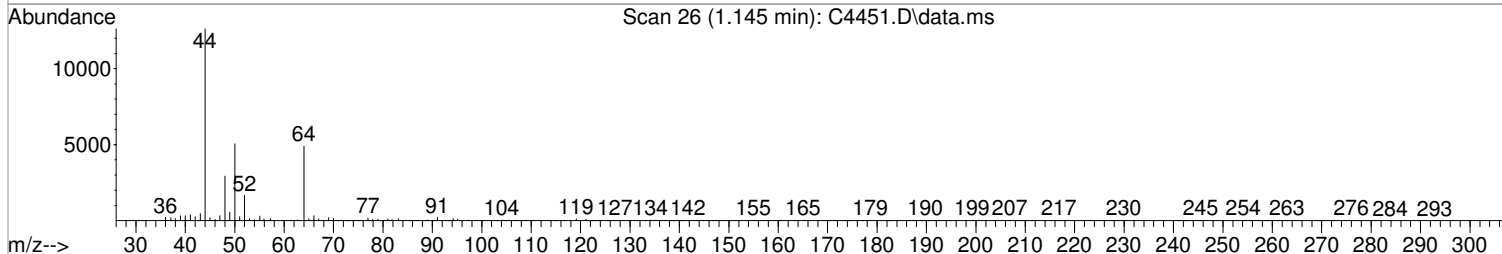
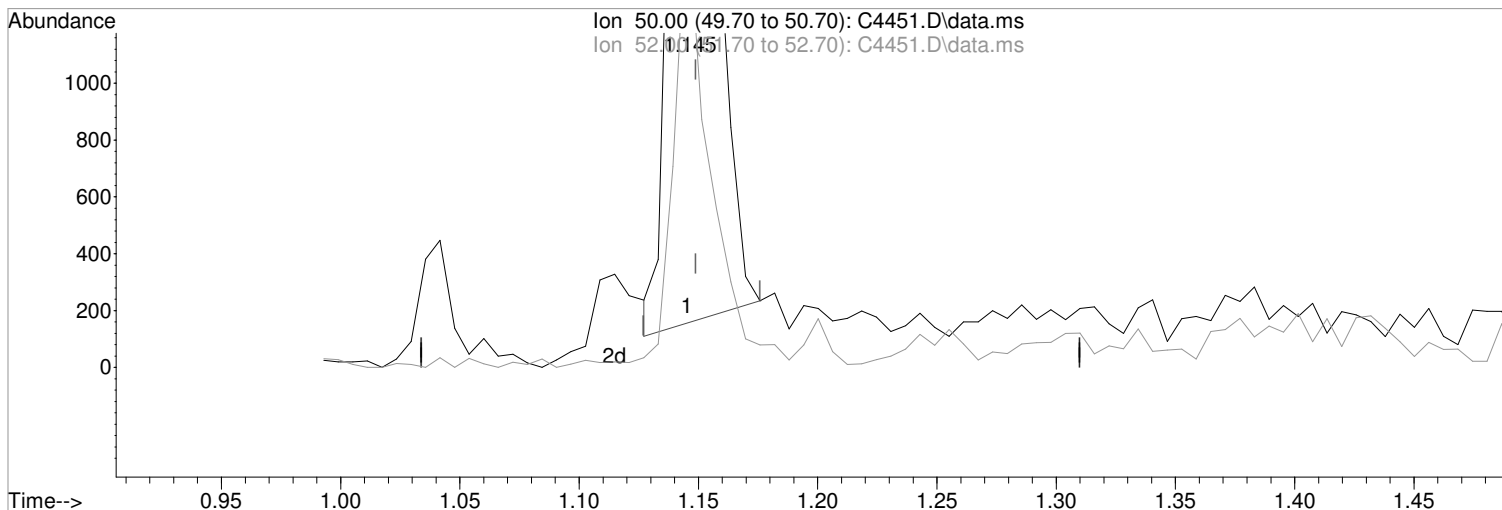
Ion	Exp%	Act%
50.00	100	100
52.00	32.80	33.02
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(3) Chloromethane (P)  
1.145min (-0.004) 1.21 ug/L  
response 4691

Manual Integration:  
Before

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	33.02
0.00	0.00	0.00
0.00	0.00	0.00

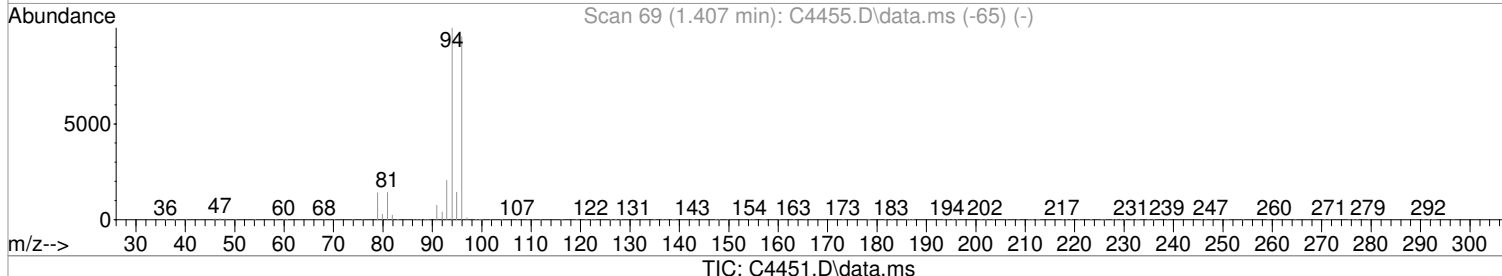
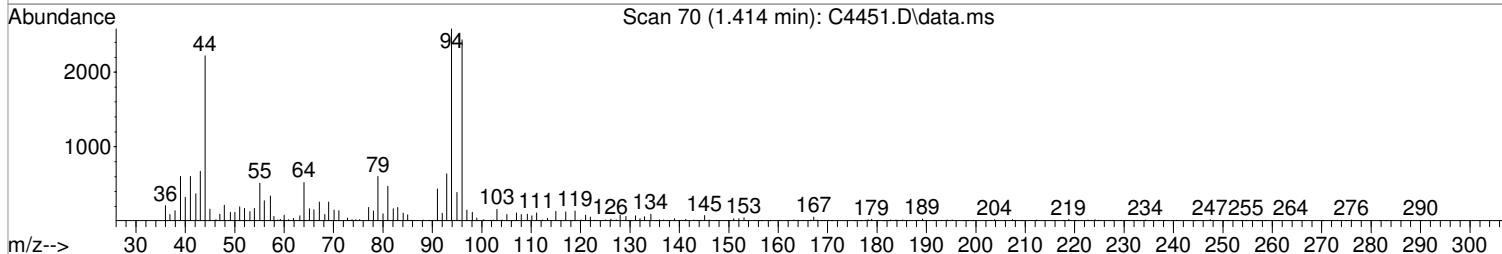
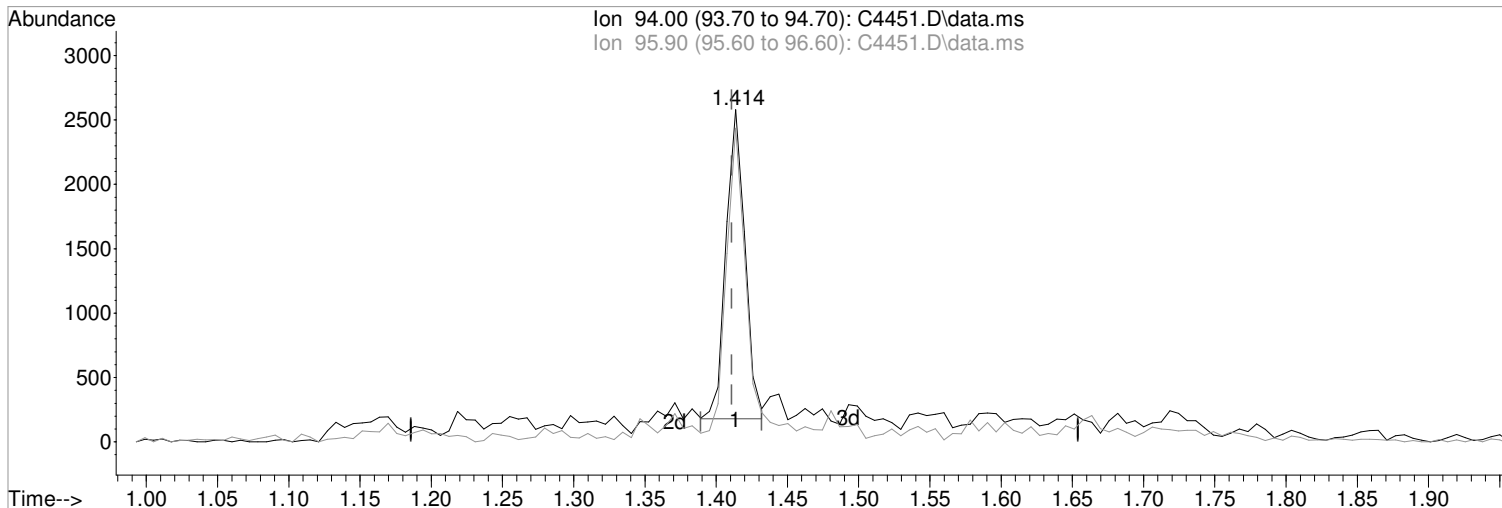
01/18/18



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.414min (+0.003) 0.80 ug/L m  
response 2230

Manual Integration:

After

Poor integration.

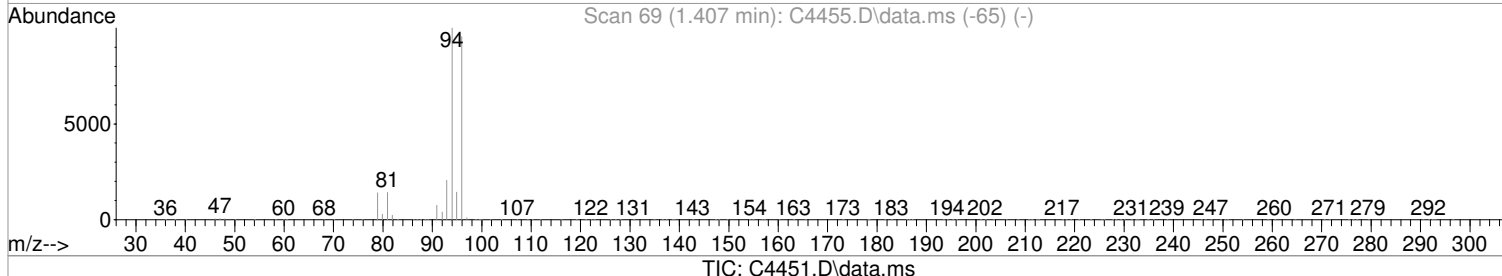
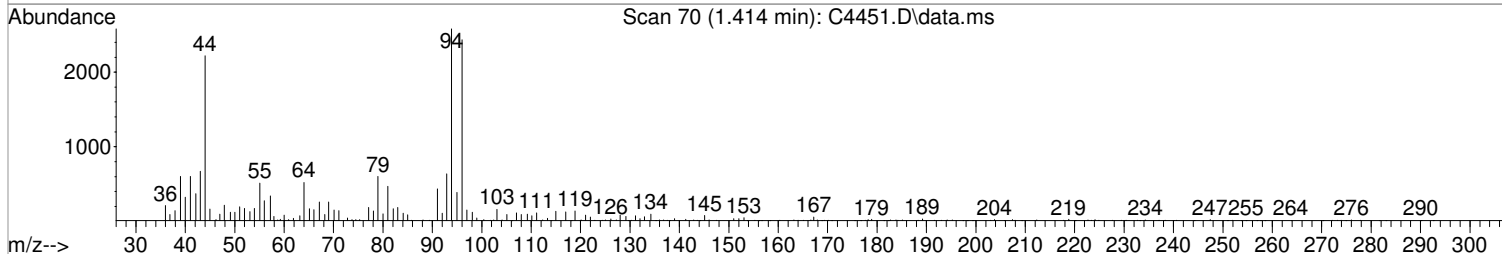
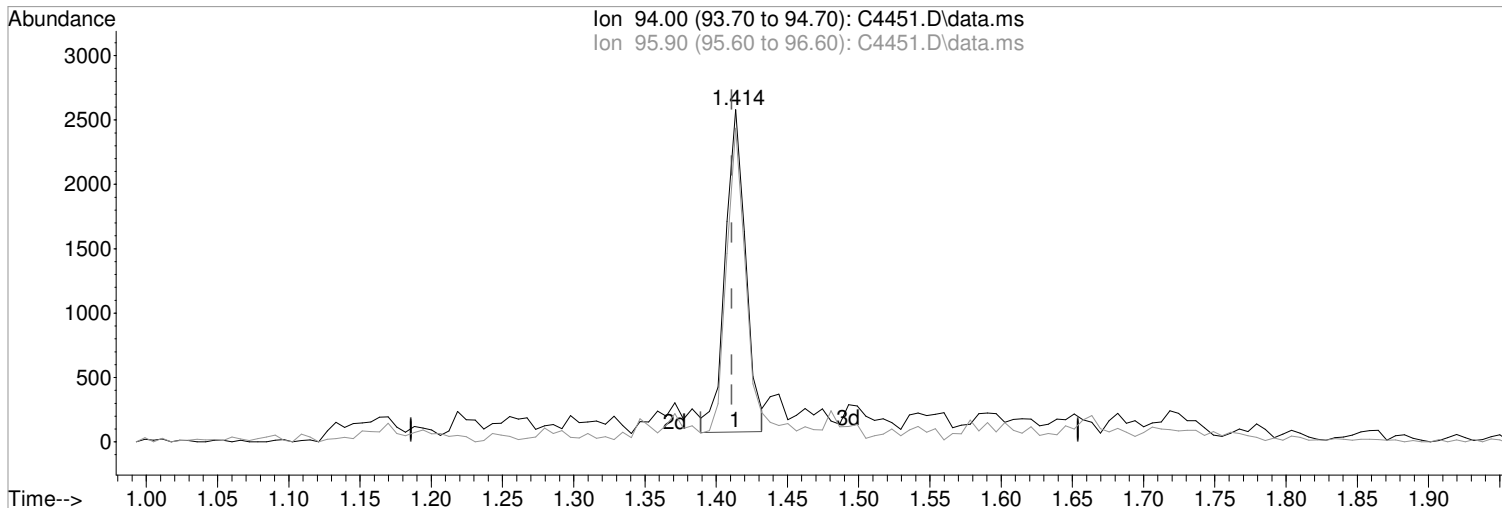
01/18/18

Ion	Exp%	Act%
94.00	100	100
95.90	92.60	94.42
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.414min (+0.003) 0.89 ug/L  
response 2493

Manual Integration:  
Before

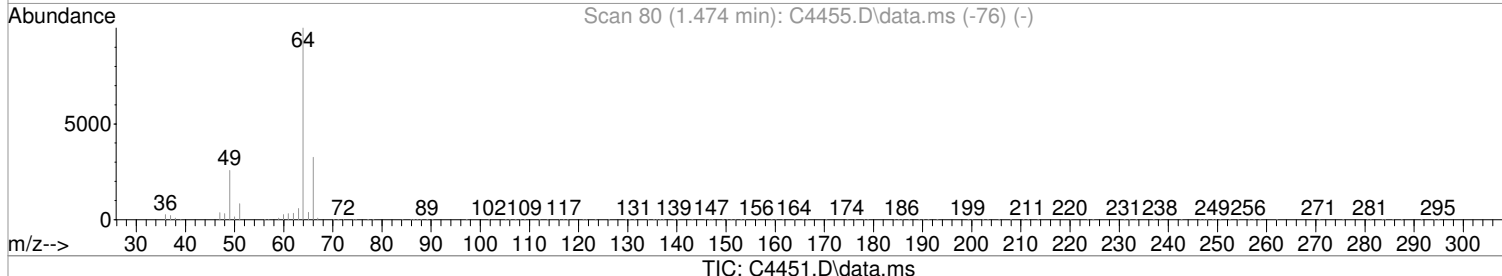
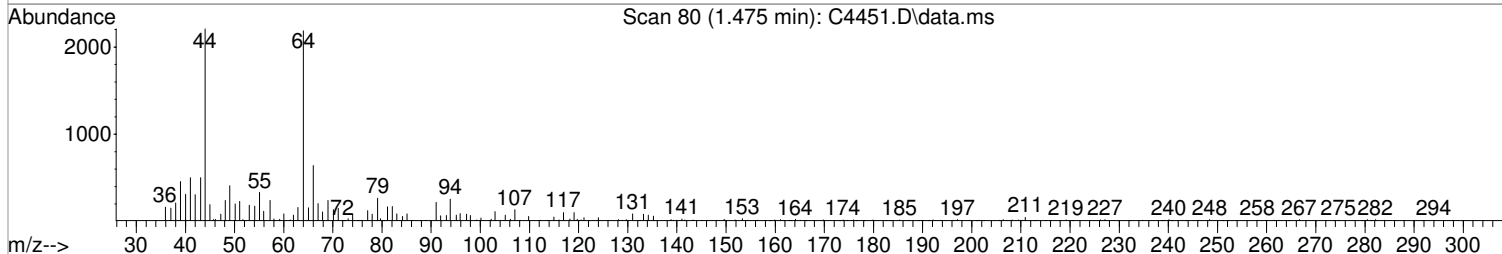
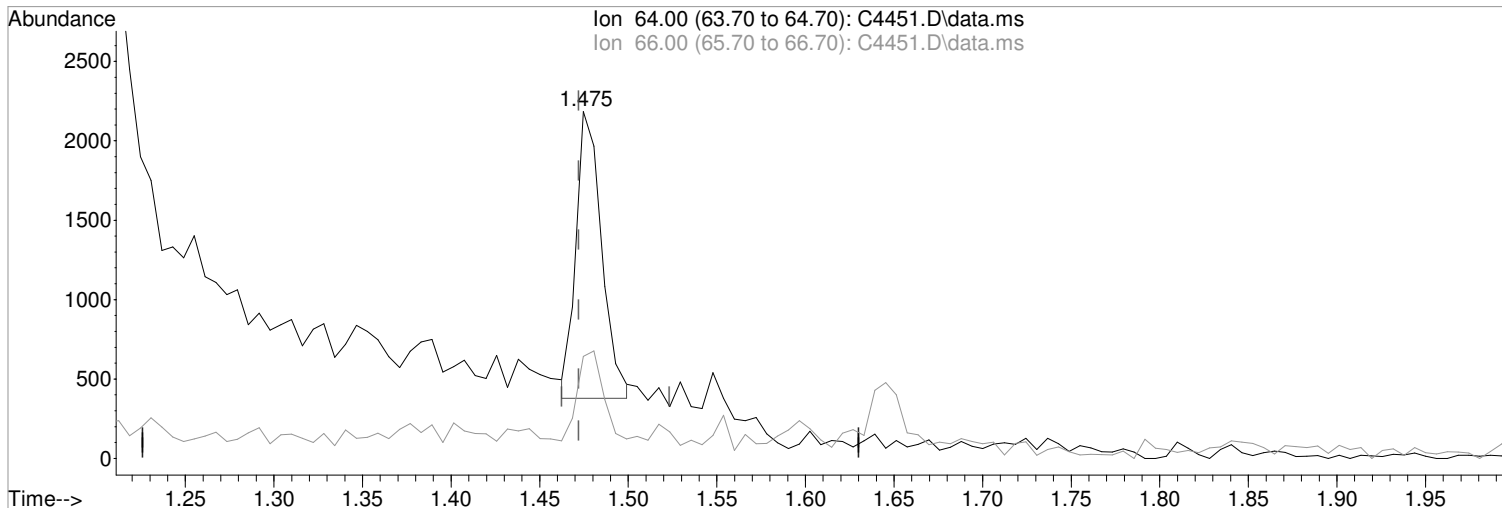
Ion	Exp%	Act%
94.00	100	100
95.90	92.60	94.42
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(6) Chloroethane (P)  
1.475min (+0.003) 0.89 ug/L m  
response 1825

Manual Integration:

After

Poor integration.

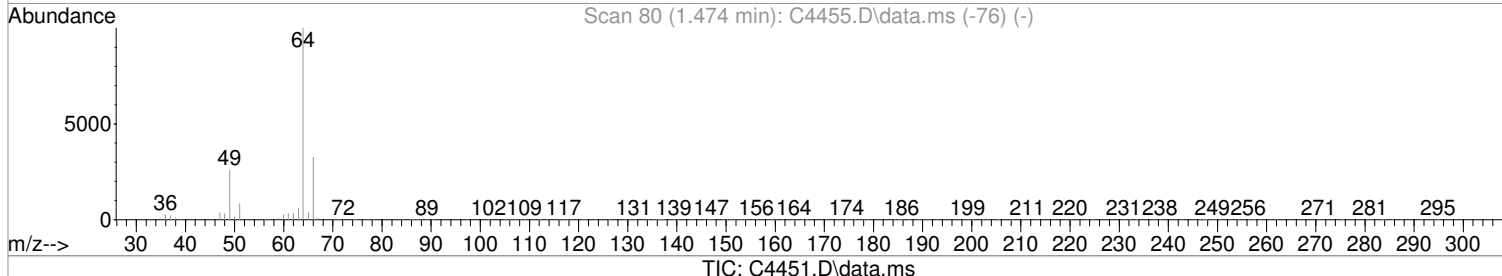
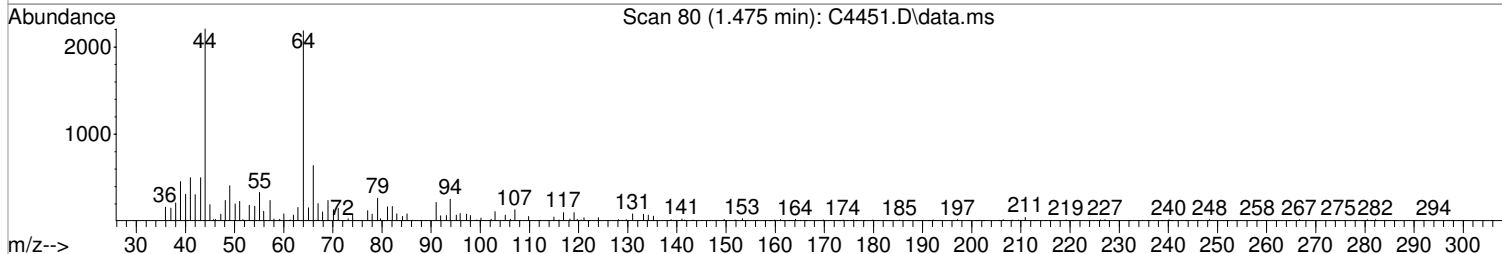
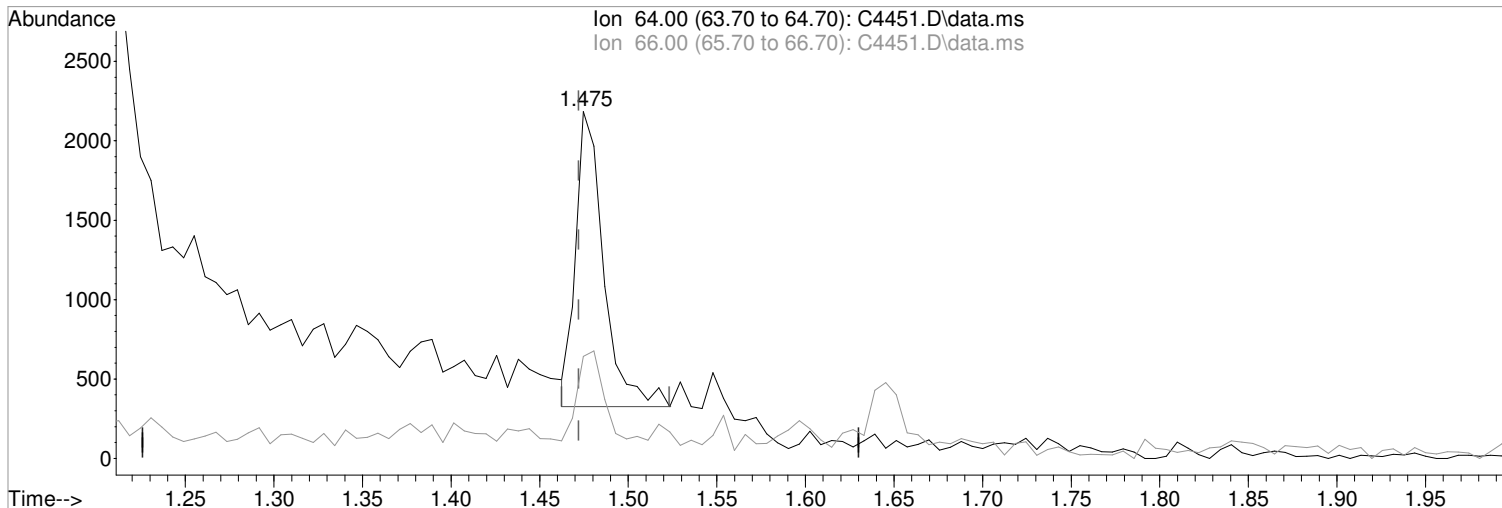
01/18/18

Ion	Exp%	Act%
64.00	100	100
66.00	31.10	29.38
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(6) Chloroethane (P)  
1.475min (+0.003) 0.99 ug/L  
response 2041

Manual Integration:  
Before

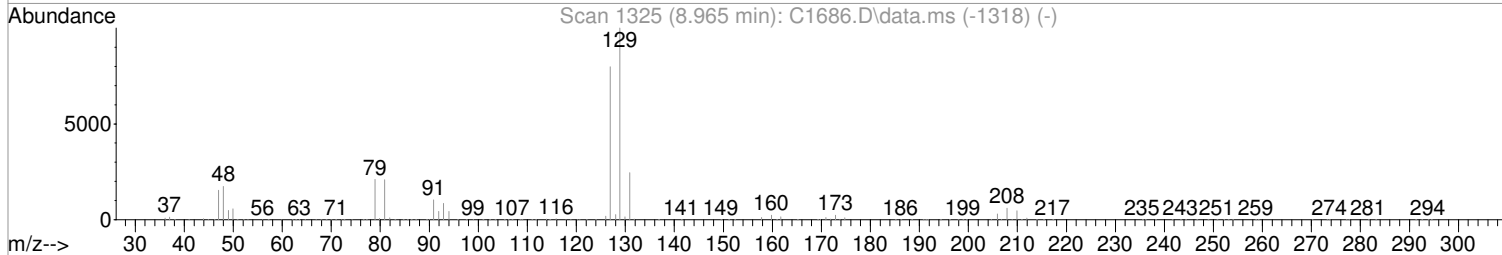
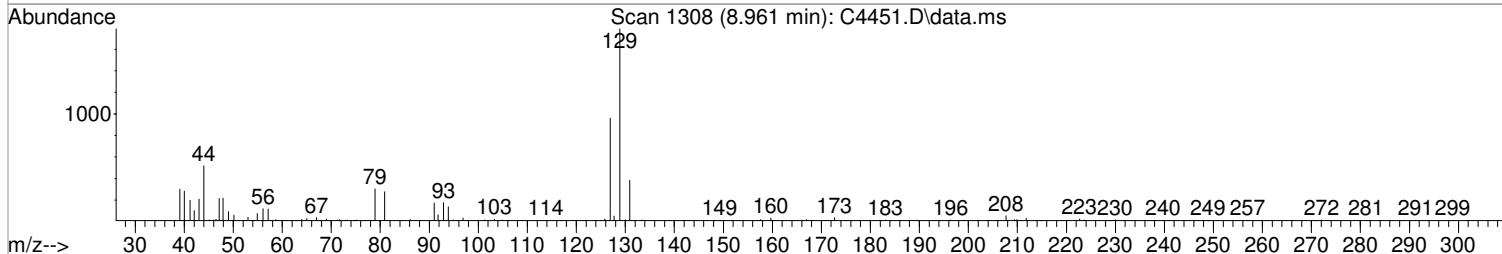
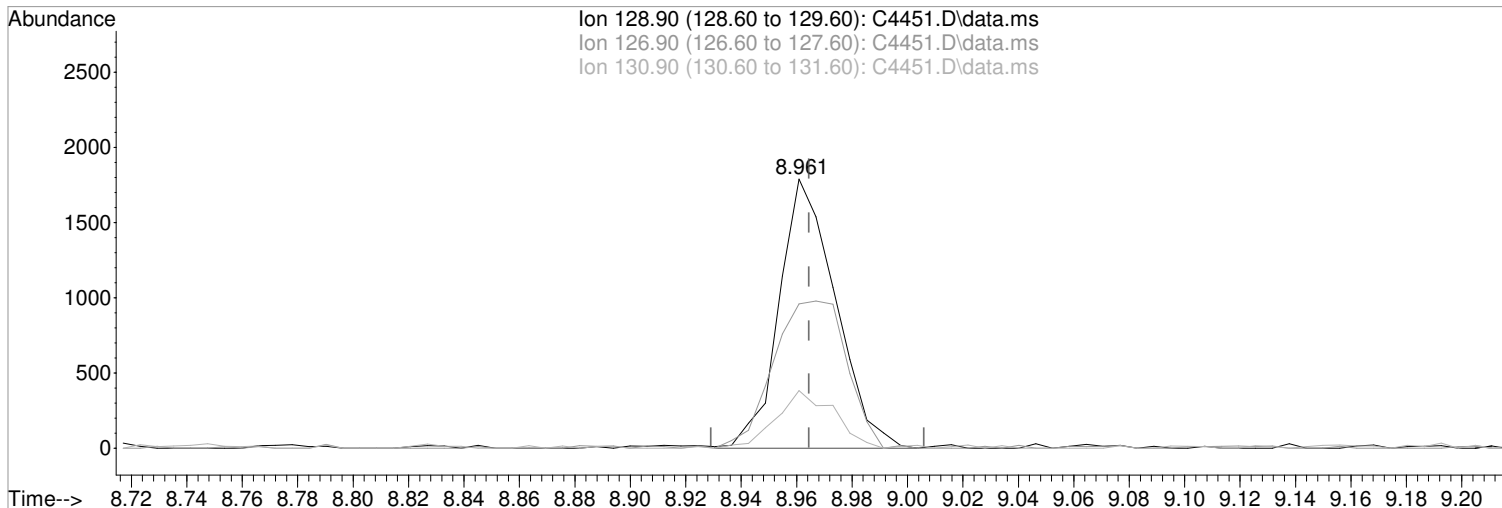
Ion	Exp%	Act%
64.00	100	100
66.00	31.10	29.38
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(74) Dibromochloromethane (P)

8.961min (-0.004) 1.19 ug/L m  
response 2534

Ion	Exp%	Act%
128.90	100	100
126.90	79.80	53.66#
130.90	24.60	21.41
0.00	0.00	0.00

Manual Integration:

After

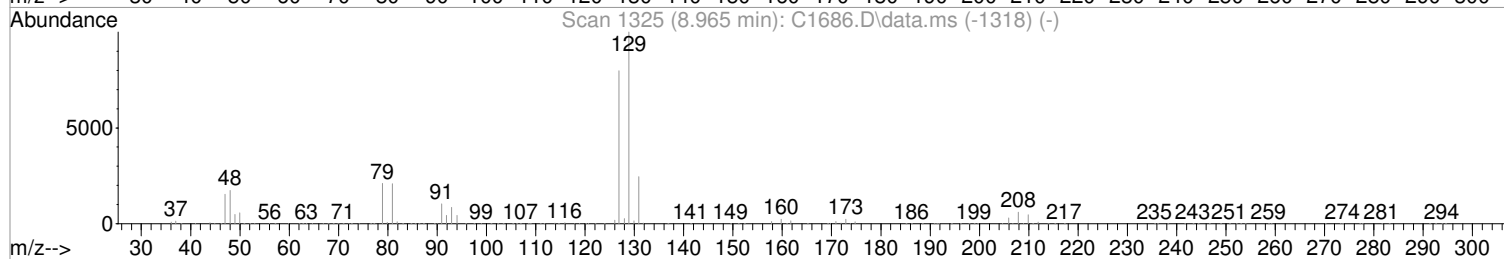
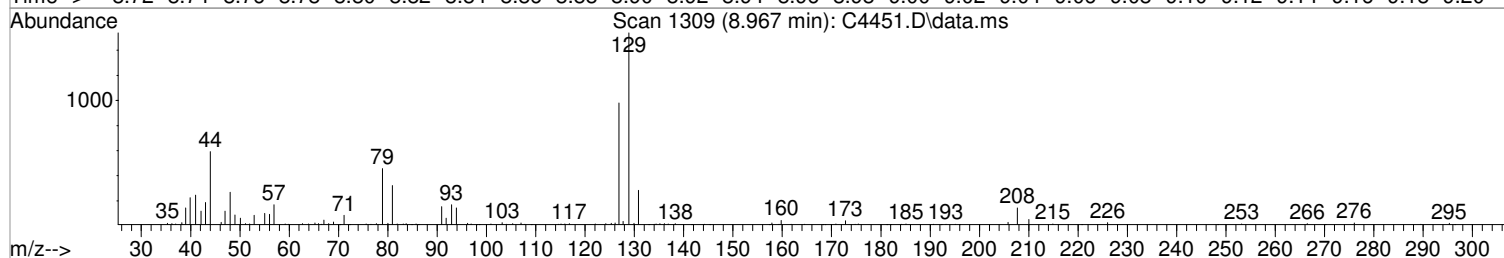
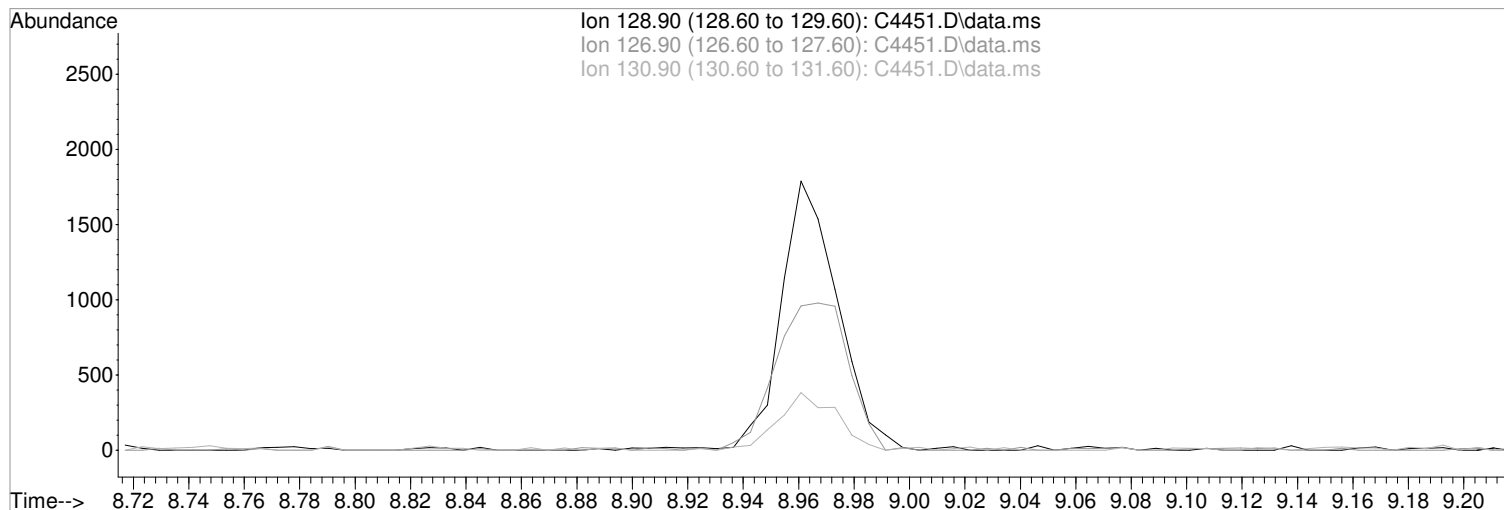
Peak not found.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

8.964min (-8.964) 0.00 ug/L

Before

response 0

Ion Exp% Act%

01/18/18

128.90 100 0.00

126.90 79.80 0.00#

130.90 24.60 0.00#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 16:10:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	244382	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	360887	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	315492	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	168937	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	24385	10.97	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	21.94%#	
47) SURR1,1,2-dichloroetha...	5.114	65	29903	10.40	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	20.80%#	
64) SURR3,Toluene-d8	7.949	98	92748	10.54	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	21.08%#	
69) SURR2,BFB	10.729	95	38142	11.11	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	22.22%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	2954m	0.90	ug/L	
3) Chloromethane	1.145	50	4868m	1.25	ug/L	
4) Vinyl Chloride	1.212	62	2719	0.81	ug/L	# 1
5) Bromomethane	1.414	94	2230m	0.80	ug/L	
6) Chloroethane	1.475	64	1825m	0.89	ug/L	
7) Freon 21	1.603	67	4482	0.81	ug/L	93
8) Trichlorofluoromethane	1.645	101	3610	0.88	ug/L	91
9) Diethyl Ether	1.846	59	2019	0.90	ug/L	95
10) Freon 123a	1.840	67	2886	0.95	ug/L	95
11) Freon 123	1.889	83	3382	1.00	ug/L	97
12) Acrolein	1.926	56	2564	5.04	ug/L	94
13) 1,1-Dicethene	2.005	96	2253	1.03	ug/L	90
14) Freon 113	2.011	101	2196	0.94	ug/L	95
15) Acetone	2.048	43	2868	2.45	ug/L	99
16) 2-Propanol	2.170	45	4912	22.48	ug/L	89
17) Iodomethane	2.121	142	1083	0.66	ug/L	89
18) Carbon Disulfide	2.170	76	8356	1.32	ug/L	95
19) Acetonitrile	2.273	40	875m	5.52	ug/L	
20) Allyl Chloride	2.285	76	1150	1.13	ug/L	95
21) Methyl Acetate	2.310	43	1976	0.88	ug/L	86
22) Methylene Chloride	2.383	84	2871	1.10	ug/L	86
23) TBA	2.505	59	8588	24.00	ug/L	89
24) Acrylonitrile	2.602	53	4706	4.38	ug/L	94
25) Methyl-t-Butyl Ether	2.657	73	7482	1.00	ug/L	96
26) trans-1,2-Dichloroethene	2.645	96	2734	1.12	ug/L	92
27) 1,1-Dicethane	3.066	63	4305	0.95	ug/L	96
28) Vinyl Acetate	3.145	86	619	1.15	ug/L	# 75
29) DIPE	3.175	45	8115	0.89	ug/L	88
30) 2-Chloro-1,3-Butadiene	3.169	53	4307	1.14	ug/L	94
31) ETBE	3.633	59	8254	1.08	ug/L	94
32) 2,2-Dichloropropane	3.767	77	4170	1.29	ug/L	93
33) cis-1,2-Dichloroethene	3.785	96	3144	1.13	ug/L	# 82
34) 2-Butanone	3.834	43	2182	1.33	ug/L	93
35) Propionitrile	3.895	54	2205	5.17	ug/L	74
36) Bromochloromethane	4.120	130	1798	1.10	ug/L	# 77
37) Methacrylonitrile	4.126	67	1066	0.94	ug/L	98
38) Tetrahydrofuran	4.224	42	1144	1.11	ug/L	95
39) Chloroform	4.279	83	4595	1.03	ug/L	94
40) 1,1,1-Trichloroethane	4.547	97	3506	0.98	ug/L	91



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 16:10:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	7709	1.08	ug/L	91
43) Cyclohexane	4.651	41	2287	0.82	ug/L #	67
45) Carbontetrachloride	4.840	121	1101	1.31	ug/L #	52
46) 1,1-Dichloropropene	4.846	75	3484	1.03	ug/L	94
48) Benzene	5.218	78	10226	1.09	ug/L	97
49) 1,2-Dichloroethane	5.254	62	3667	0.99	ug/L	90
50) Iso-Butyl Alcohol	5.266	43	3653	23.86	ug/L	91
51) n-Heptane	5.797	43	3905	1.01	ug/L	97
52) 1-Butanol	6.376	56	4495	47.85	ug/L	94
53) Trichloroethene	6.303	130	2890	1.11	ug/L	92
54) Methylcyclohexane	6.565	55	3841	1.08	ug/L #	82
55) 1,2-Diclpropane	6.614	63	2730	1.02	ug/L	93
56) Dibromomethane	6.766	93	1629	0.99	ug/L	88
57) 1,4-Dioxane	6.870	88	798	19.75	ug/L	82
58) Methyl Methacrylate	6.888	69	1904	1.03	ug/L	86
59) Bromodichloromethane	7.028	83	3514	1.15	ug/L	95
60) 2-Nitropropane	7.339	41	1741	2.79	ug/L	92
61) 2-Chloroethylvinyl Ether	7.492	63	484	0.75	ug/L	86
62) cis-1,3-Dichloropropene	7.632	75	4014	1.04	ug/L	87
63) 4-Methyl-2-pentanone	7.864	43	2874	0.98	ug/L	91
65) Toluene	8.028	91	10741	1.03	ug/L	99
66) trans-1,3-Dichloropropene	8.339	75	3546	1.16	ug/L	95
67) Ethyl Methacrylate	8.510	69	3301	1.03	ug/L	98
68) 1,1,2-Trichloroethane	8.534	97	2441	1.11	ug/L #	78
71) Tetrachloroethene	8.674	164	2529	1.23	ug/L #	85
72) 2-Hexanone	8.869	43	1882	0.91	ug/L	93
73) 1,3-Dichloropropane	8.717	76	3912	1.01	ug/L	93
74) Dibromochloromethane	8.961	129	2534m	1.19	ug/L	
75) N-Butyl Acetate	9.058	43	4770	1.12	ug/L	96
76) 1,2-Dibromoethane	9.065	107	2225	1.07	ug/L	99
77) Chlorobenzene	9.613	112	7311	1.11	ug/L	93
78) 1,1,1,2-Tetrachloroethane	9.711	131	2563	1.22	ug/L	89
79) Ethylbenzene	9.753	106	3789	1.09	ug/L	93
80) (m+p)Xylene	9.875	106	9733	2.24	ug/L	93
81) o-Xylene	10.253	106	4760	1.13	ug/L #	82
82) Styrene	10.266	104	7953	1.14	ug/L	90
83) Bromoform	10.412	173	1603	1.17	ug/L	87
84) Isopropylbenzene	10.607	105	12002	1.09	ug/L	99
85) Cyclohexanone	10.662	55	10239	18.69	ug/L	96
86) trans-1,4-Dichloro-2-B...	10.930	53	807	1.25	ug/L	100
88) 1,1,2,2-Tetrachloroethane	10.881	83	3144	1.04	ug/L	85
89) Bromobenzene	10.851	156	3120	1.10	ug/L	93
90) 1,2,3-Trichloropropane	10.906	110	1057	1.13	ug/L #	86
91) n-Propylbenzene	10.985	91	13387	1.05	ug/L	96
92) 2-Chlorotoluene	11.040	91	8265	1.10	ug/L	95
93) 4-Chlorotoluene	11.137	91	9894	1.08	ug/L	95
94) 1,3,5-Trimethylbenzene	11.150	105	10103	1.11	ug/L	95
95) tert-Butylbenzene	11.424	119	8797	1.12	ug/L	97
96) 1,2,4-Trimethylbenzene	11.467	105	10153	1.12	ug/L	86
97) sec-Butylbenzene	11.613	105	12765	1.06	ug/L	98
98) p-Isopropyltoluene	11.741	119	11383	1.12	ug/L	95
99) 1,3-Dclbenz	11.686	146	6443	1.16	ug/L	99
100) 1,4-Dclbenz	11.759	146	6920	1.21	ug/L	95
101) n-Butylbenzene	12.082	91	10337	1.05	ug/L	92
102) 1,2-Dclbenz	12.070	146	5931	1.11	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	631	1.14	ug/L #	83

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 16:10:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	5106	1.14	ug/L	96
105) 1,2,4-Tcbenzene	13.369	180	4816	1.17	ug/L	96
106) Hexachlorobt	13.515	225	2539	1.14	ug/L	92
107) Naphthalen	13.558	128	10521	1.16	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	4478	1.18	ug/L	95

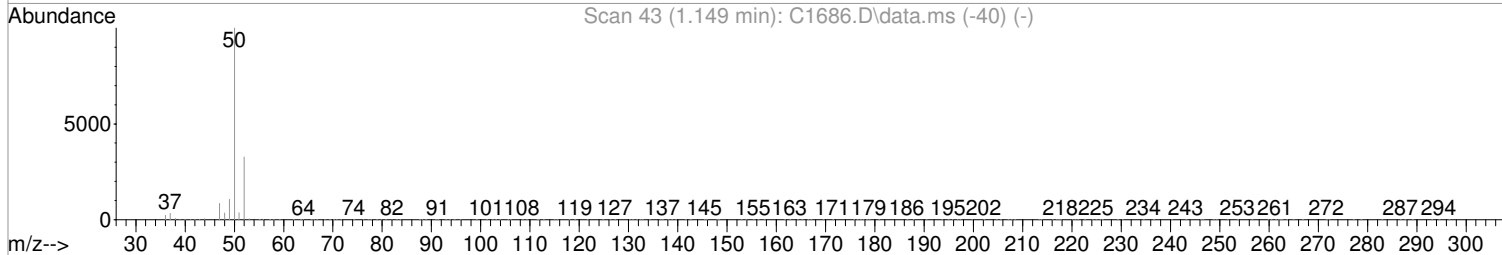
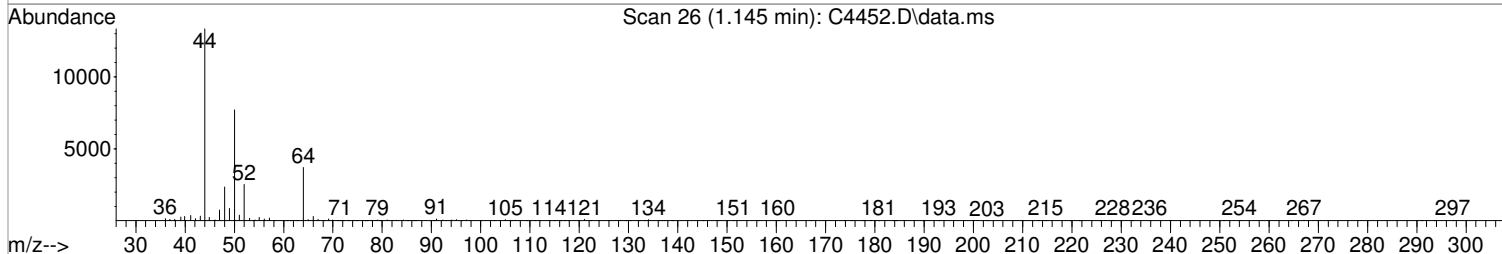
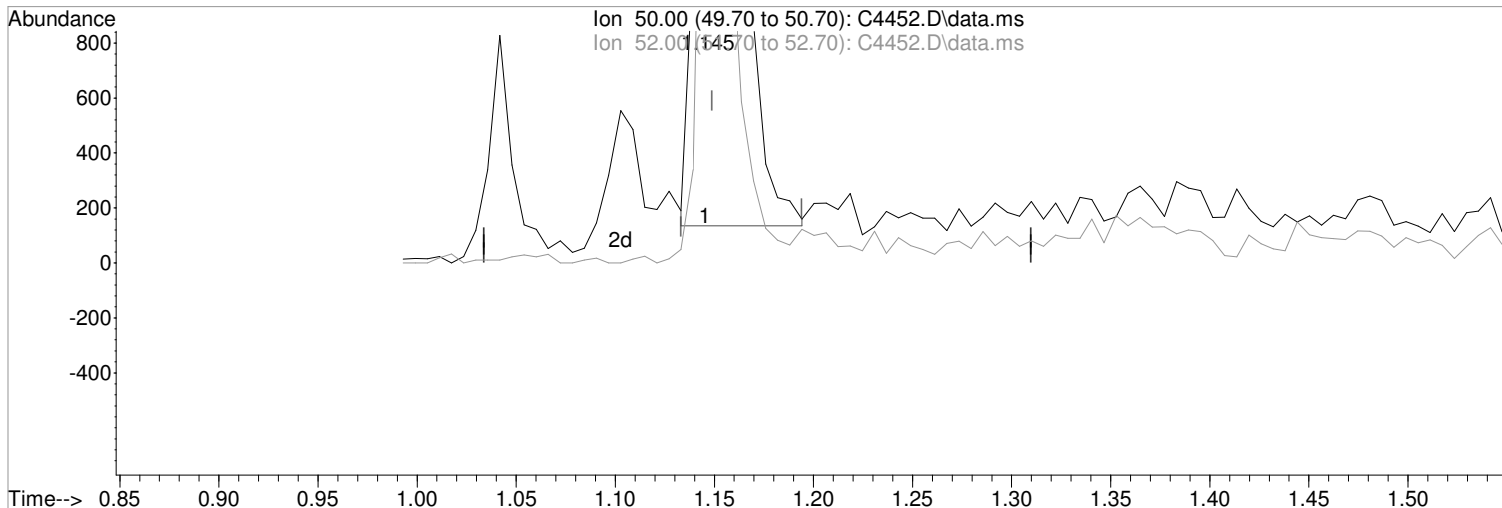
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(3) Chloromethane (P)

1.145min (-0.004) 2.16 ug/L m

response 8289

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	32.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

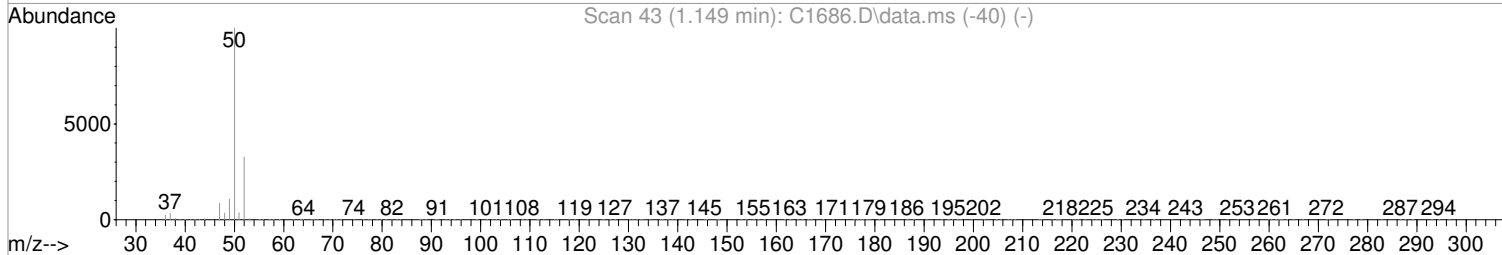
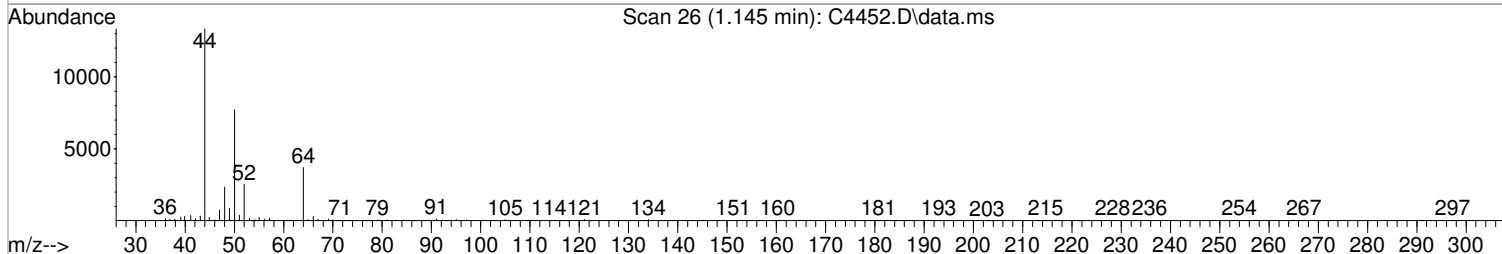
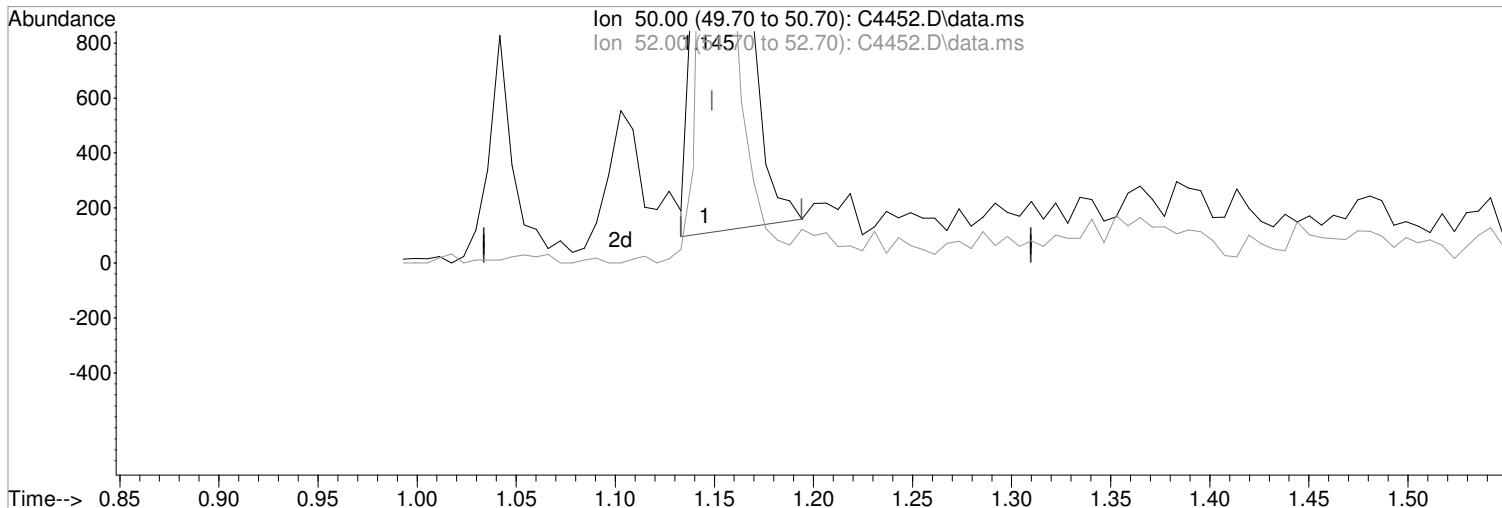
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(3) Chloromethane (P)  
1.145min (-0.004) 2.17 ug/L  
response 8314

Manual Integration:  
Before

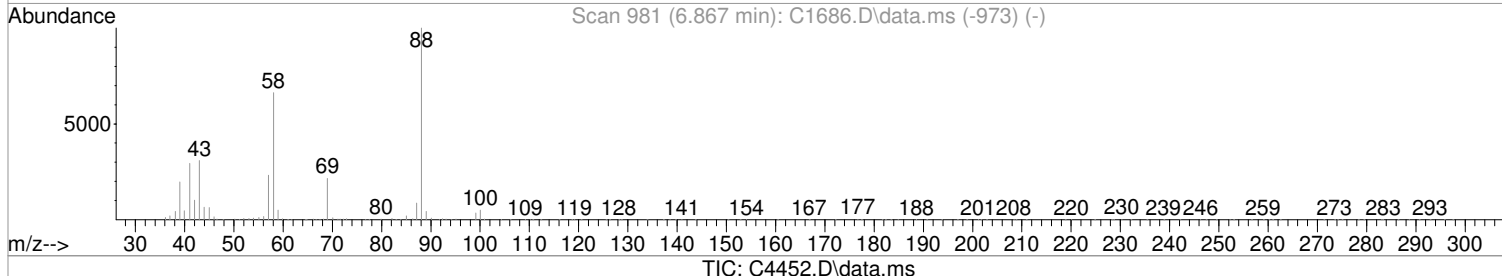
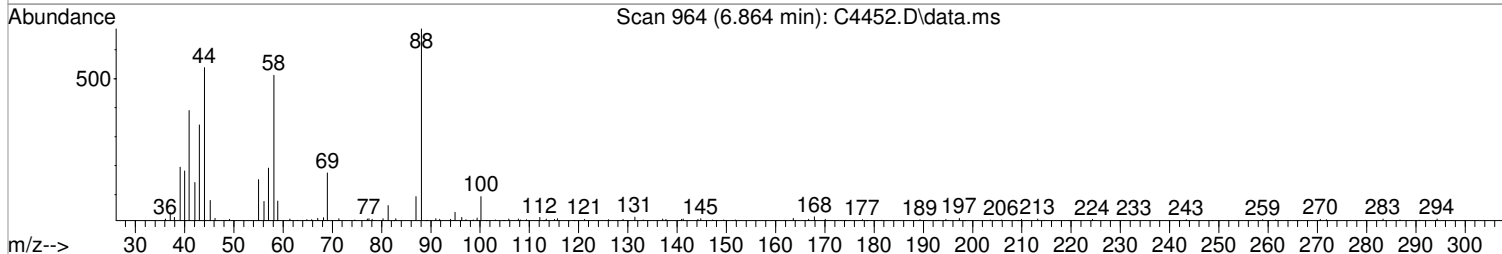
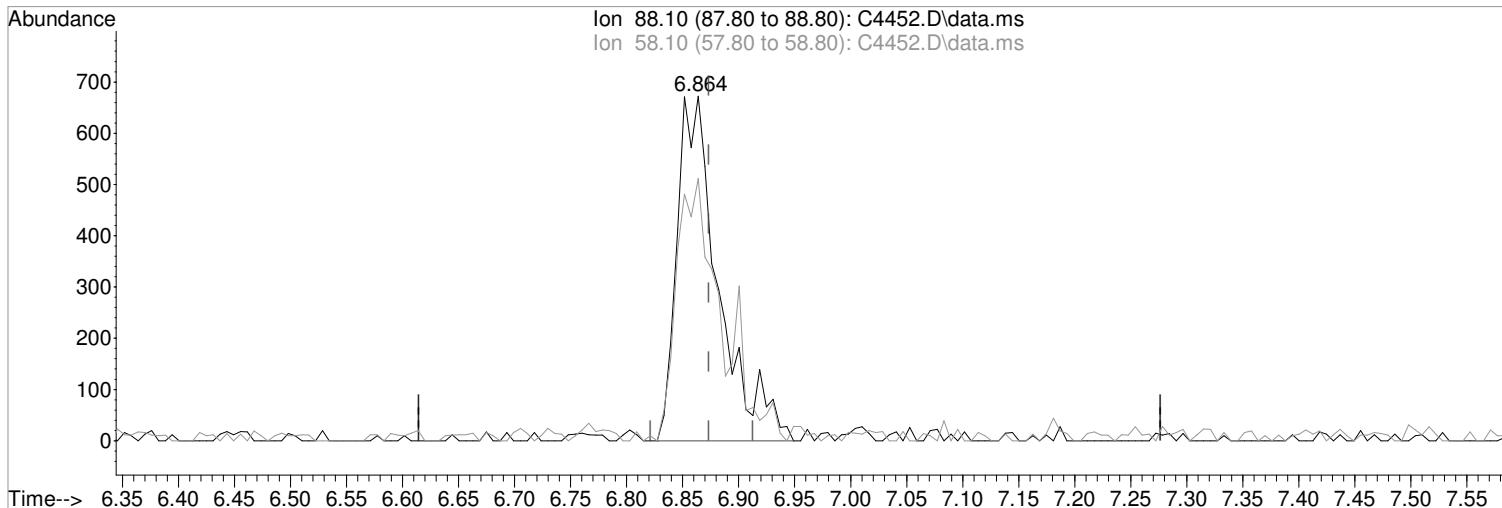
Ion	Exp%	Act%
50.00	100	100
52.00	32.80	32.65
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(57) 1,4-Dioxane  
6.864min (-0.010) 43.75 ug/L m  
response 1732

Manual Integration:

After

Poor integration.

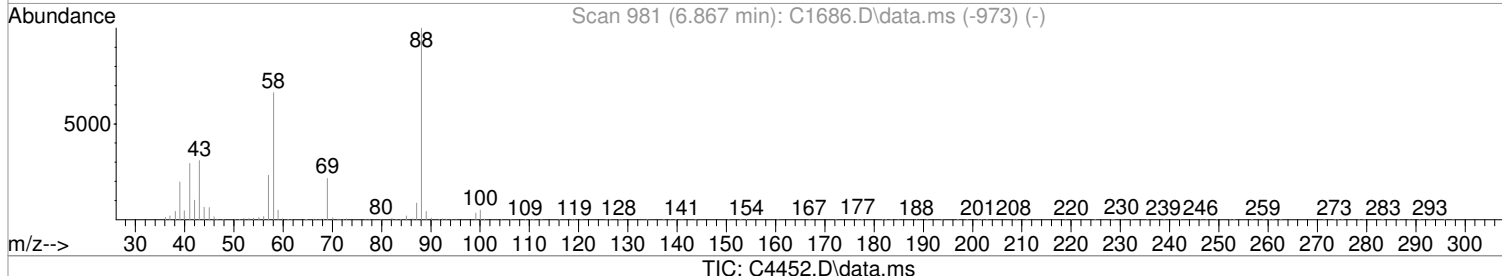
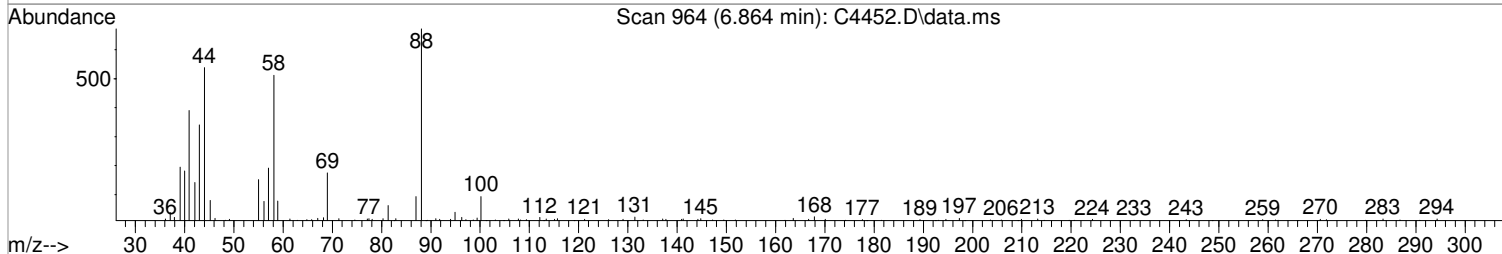
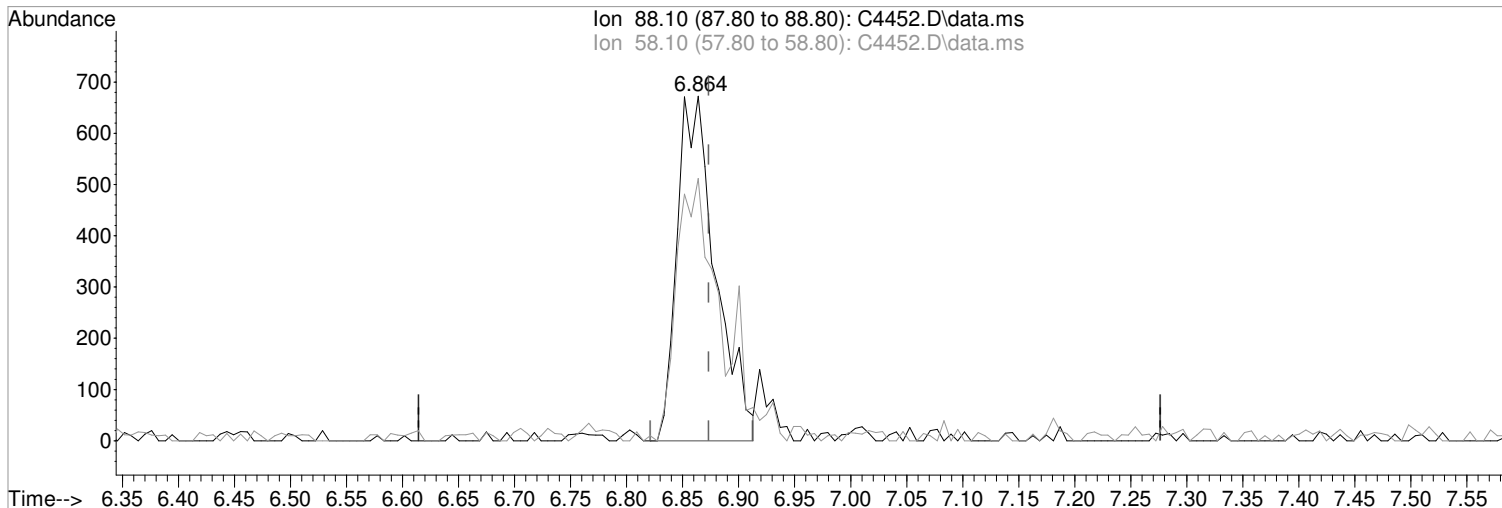
Ion	Exp%	Act%
88.10	100	100
58.10	66.80	76.19
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(57) 1,4-Dioxane  
6.864min (-0.010) 40.62 ug/L  
response 1608

Manual Integration:  
Before

Ion	Exp%	Act%
88.10	100	100
58.10	66.80	76.19
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4452.D  
 Acq On : 18 Jan 2018 1:15 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 13:37:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:17:50 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	234101	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	354103	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	317655	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	171417	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	22368	10.26	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	20.52%#	
47) SURR1,1,2-dichloroetha...	5.120	65	29150	10.33	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	20.66%#	
64) SURR3,Toluene-d8	7.949	98	95195	11.03	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	22.06%#	
69) SURR2,BFB	10.729	95	41284	12.25	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	24.50%#	
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	5688	1.85	ug/L	99
3) Chloromethane	1.145	50	8289m	2.16	ug/L	
4) Vinyl Chloride	1.212	62	5870	1.88	ug/L #	45
5) Bromomethane	1.414	94	4172	1.58	ug/L	89
6) Chloroethane	1.481	64	3000	1.52	ug/L	87
7) Freon 21	1.603	67	8616	1.69	ug/L	93
8) Trichlorofluoromethane	1.645	101	6842	1.77	ug/L	99
9) Diethyl Ether	1.847	59	4039	1.91	ug/L	98
10) Freon 123a	1.847	67	5998	2.10	ug/L	87
11) Freon 123	1.889	83	6647	2.06	ug/L	96
12) Acrolein	1.932	56	5147	10.74	ug/L	95
13) 1,1-Dicethene	2.005	96	4378	2.10	ug/L	89
14) Freon 113	2.011	101	4480	2.06	ug/L	92
15) Acetone	2.042	43	4469	3.30	ug/L	90
16) 2-Propanol	2.157	45	9962	46.77	ug/L	99
17) Iodomethane	2.121	142	1688	1.13	ug/L	98
18) Carbon Disulfide	2.170	76	14701	2.33	ug/L	99
19) Acetonitrile	2.255	40	1712	11.13	ug/L #	82
20) Allyl Chloride	2.292	76	2187	2.20	ug/L #	72
21) Methyl Acetate	2.316	43	4143	1.99	ug/L	97
22) Methylene Chloride	2.389	84	5410	2.14	ug/L	97
23) TBA	2.505	59	20507	58.91	ug/L	87
24) Acrylonitrile	2.602	53	9718	9.61	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	15981	2.23	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	4958	2.12	ug/L	96
27) 1,1-Dicethane	3.066	63	8831	2.05	ug/L	94
28) Vinyl Acetate	3.145	86	1030	1.96	ug/L #	47
29) DIPE	3.182	45	16542	1.92	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.169	53	7807	2.11	ug/L	90
31) ETBE	3.639	59	16461	2.22	ug/L	92
32) 2,2-Dichloropropane	3.785	77	8145	2.58	ug/L	95
33) cis-1,2-Dichloroethene	3.785	96	5597	2.09	ug/L	99
34) 2-Butanone	3.834	43	3518	2.15	ug/L	79
35) Propionitrile	3.895	54	4134	10.02	ug/L	90
36) Bromochloromethane	4.127	130	3389	2.16	ug/L #	82
37) Methacrylonitrile	4.114	67	2536	2.37	ug/L #	81
38) Tetrahydrofuran	4.218	42	2491	2.49	ug/L	91
39) Chloroform	4.273	83	8698	2.04	ug/L	91
40) 1,1,1-Trichloroethane	4.547	97	7802	2.29	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4452.D  
 Acq On : 18 Jan 2018 1:15 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 13:37:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:17:50 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.517	73	16253	2.34	ug/L	92
43) Cyclohexane	4.639	41	5130	1.92	ug/L	97
45) Carbontetrachloride	4.840	121	2059	2.37	ug/L	98
46) 1,1-Dichloropropene	4.858	75	6577	1.99	ug/L	96
48) Benzene	5.224	78	19485	2.09	ug/L	98
49) 1,2-Dichloroethane	5.260	62	7625	2.10	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	6350	41.14	ug/L	98
51) n-Heptane	5.809	43	7386	1.98	ug/L	92
52) 1-Butanol	6.370	56	9990	109.06	ug/L	78
53) Trichloroethene	6.303	130	5635	2.22	ug/L	94
54) Methylcyclohexane	6.571	55	7500	2.15	ug/L	91
55) 1,2-Diclpropane	6.608	63	5379	2.06	ug/L	94
56) Dibromomethane	6.766	93	3084	1.94	ug/L	90
57) 1,4-Dioxane	6.864	88	1732m	43.75	ug/L	
58) Methyl Methacrylate	6.894	69	4456	2.44	ug/L	90
59) Bromodichloromethane	7.028	83	6591	2.14	ug/L	97
60) 2-Nitropropane	7.333	41	2598	4.01	ug/L	94
61) 2-Chloroethylvinyl Ether	7.498	63	1669	2.79	ug/L	88
62) cis-1,3-Dichloropropene	7.626	75	8278	2.17	ug/L	94
63) 4-Methyl-2-pentanone	7.864	43	6260	2.18	ug/L	91
65) Toluene	8.028	91	21242	2.07	ug/L	96
66) trans-1,3-Dichloropropene	8.333	75	7898	2.51	ug/L	94
67) Ethyl Methacrylate	8.510	69	7432	2.36	ug/L	91
68) 1,1,2-Trichloroethane	8.534	97	4701	2.14	ug/L	97
71) Tetrachloroethene	8.681	164	4338	2.08	ug/L	96
72) 2-Hexanone	8.870	43	4296	2.09	ug/L	89
73) 1,3-Dichloropropane	8.717	76	8264	2.11	ug/L	97
74) Dibromochloromethane	8.961	129	5070	2.28	ug/L	93
75) N-Butyl Acetate	9.059	43	10012	2.30	ug/L	93
76) 1,2-Dibromoethane	9.065	107	4658	2.18	ug/L	94
77) Chlorobenzene	9.613	112	14293	2.13	ug/L	97
78) 1,1,1,2-Tetrachloroethane	9.711	131	5086	2.33	ug/L	97
79) Ethylbenzene	9.753	106	7621	2.17	ug/L	96
80) (m+p)Xylene	9.875	106	19064	4.31	ug/L	92
81) o-Xylene	10.253	106	9407	2.18	ug/L #	85
82) Styrene	10.266	104	15662	2.17	ug/L	96
83) Bromoform	10.418	173	3144	2.23	ug/L	87
84) Isopropylbenzene	10.607	105	24607	2.19	ug/L	97
85) Cyclohexanone	10.662	55	22042	40.34	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.942	53	1778	2.63	ug/L	75
88) 1,1,2,2-Tetrachloroethane	10.881	83	6733	2.19	ug/L	93
89) Bromobenzene	10.851	156	6276	2.18	ug/L	90
90) 1,2,3-Trichloropropane	10.912	110	2157	2.26	ug/L #	87
91) n-Propylbenzene	10.985	91	28210	2.14	ug/L	99
92) 2-Chlorotoluene	11.040	91	16528	2.13	ug/L	97
93) 4-Chlorotoluene	11.137	91	20281	2.16	ug/L	96
94) 1,3,5-Trimethylbenzene	11.143	105	20518	2.19	ug/L	94
95) tert-Butylbenzene	11.424	119	17542	2.16	ug/L	97
96) 1,2,4-Trimethylbenzene	11.467	105	20945	2.25	ug/L	99
97) sec-Butylbenzene	11.613	105	25954	2.11	ug/L	97
98) p-Isopropyltoluene	11.741	119	22371	2.14	ug/L	98
99) 1,3-Dclbenz	11.686	146	12301	2.17	ug/L	94
100) 1,4-Dclbenz	11.759	146	12640	2.16	ug/L	96
101) n-Butylbenzene	12.082	91	21002	2.08	ug/L	98
102) 1,2-Dclbenz	12.070	146	11986	2.20	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	1421	2.49	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4452.D  
 Acq On : 18 Jan 2018 1:15 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 13:37:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:17:50 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	10571	2.32	ug/L	97
105) 1,2,4-Tcbenzene	13.369	180	9396	2.21	ug/L	95
106) Hexachlorobt	13.515	225	5210	2.29	ug/L	97
107) Naphthalen	13.552	128	22173	2.34	ug/L	98
108) 1,2,3-Tclbenzene	13.747	180	8683	2.24	ug/L	97

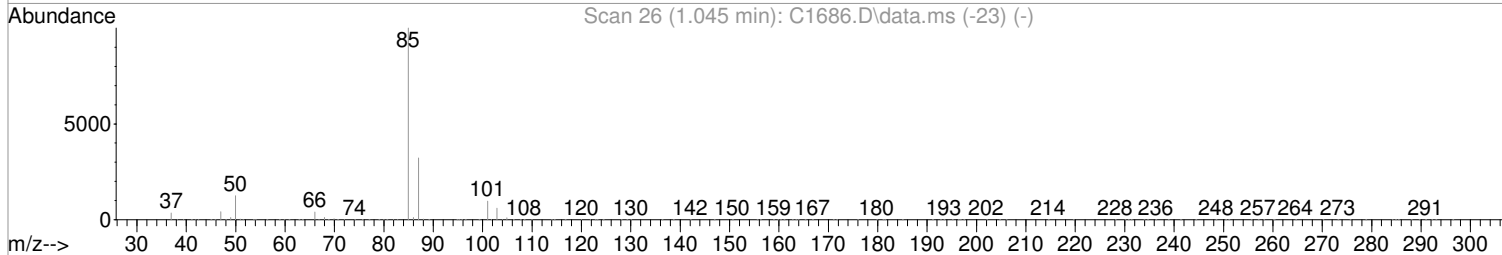
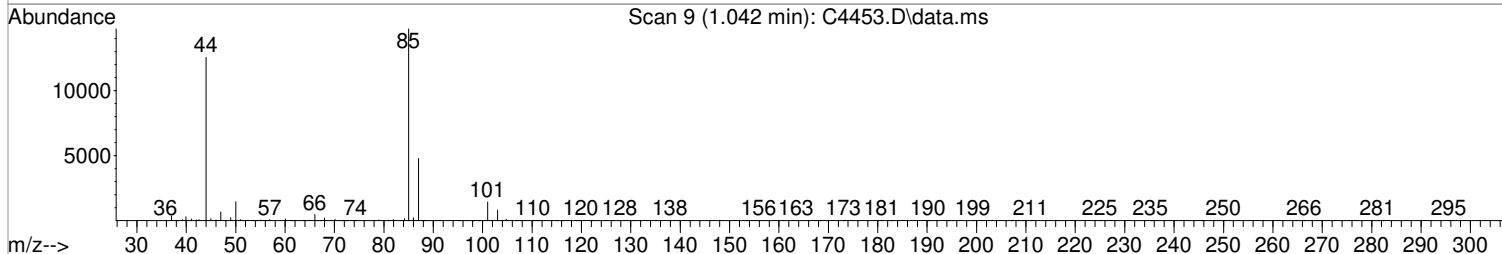
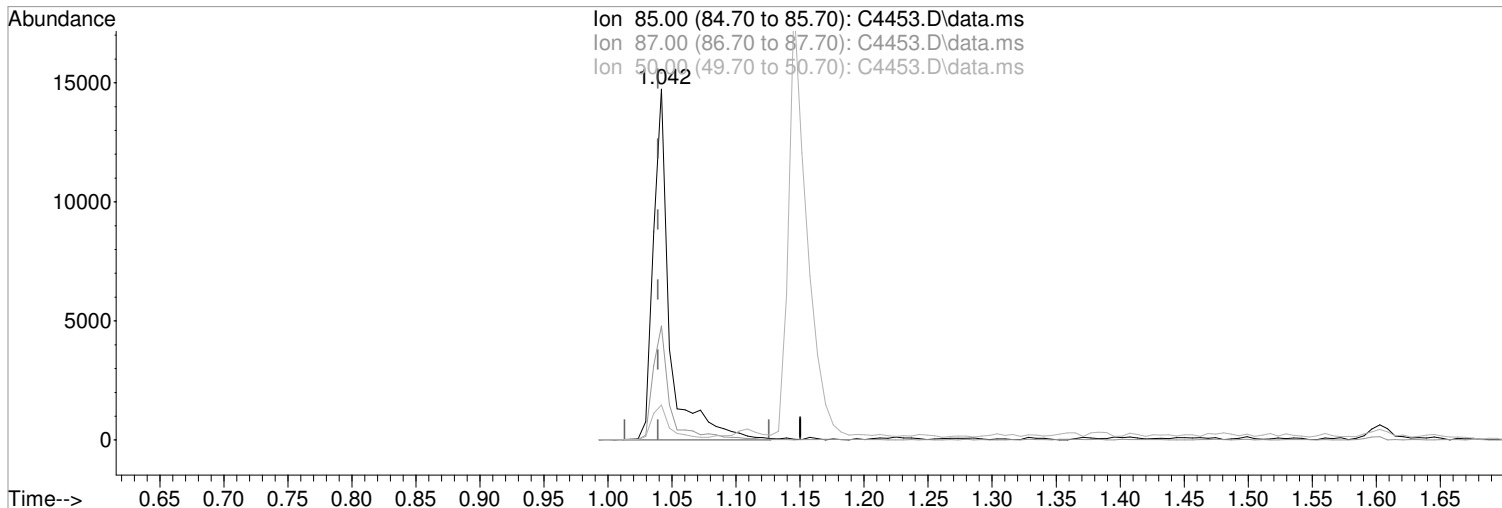
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:54:40 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration



TIC: C4453.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (+0.003) 4.29 ug/L m  
 response 13145

Ion	Exp%	Act%
85.00	100	100
87.00	32.30	32.52
50.00	12.50	10.00
0.00	0.00	0.00

Manual Integration:

After

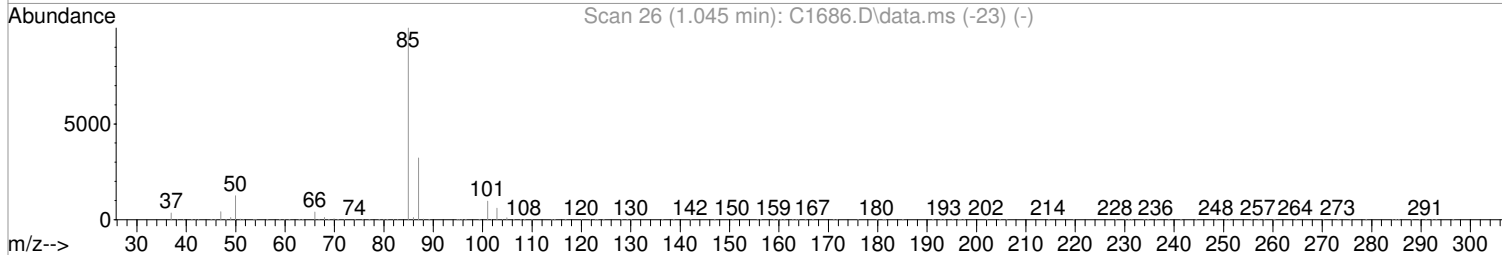
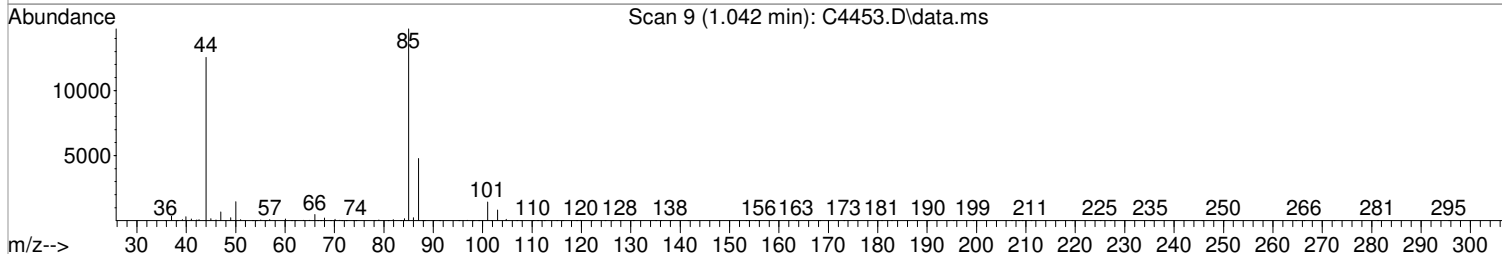
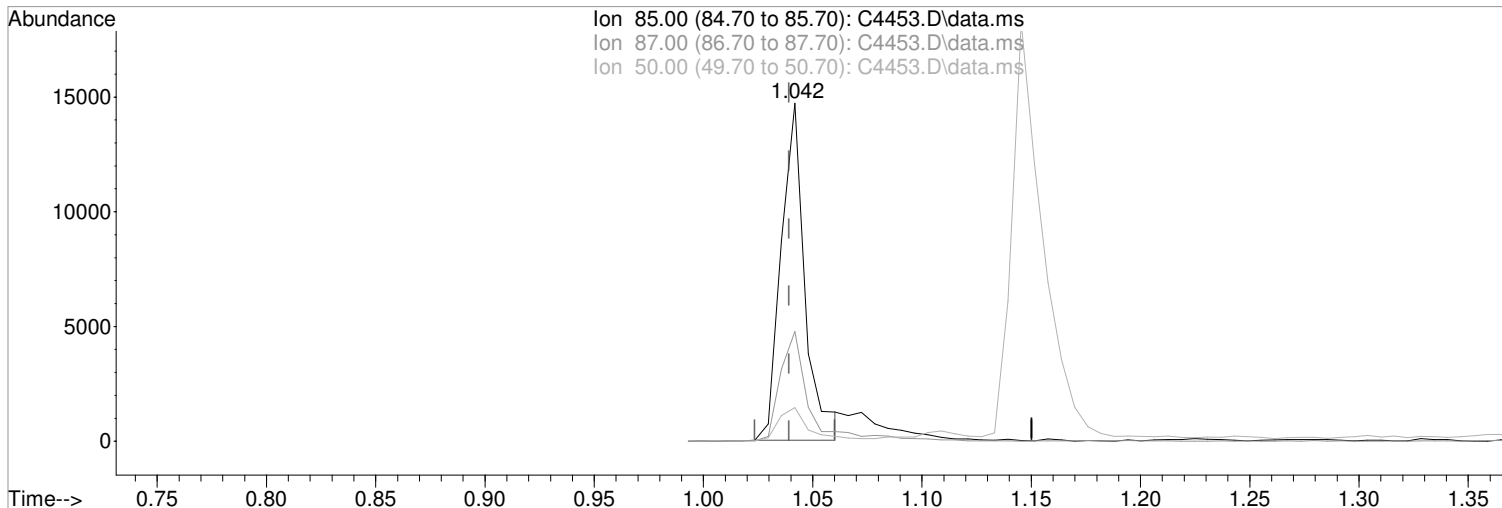
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4453.D  
Acq On : 18 Jan 2018 1:38 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:54:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:37:38 2018  
Response via : Initial Calibration



TIC: C4453.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (+0.003) 3.62 ug/L  
response 11109

Manual Integration:

Before

01/18/18

Ion	Exp%	Act%
85.00	100	100
87.00	32.30	32.52
50.00	12.50	10.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 13:55:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	236110	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	354884	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	316693	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	173996	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	23441	10.73	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	21.46%#	
47) SURR1,1,2-dichloroetha...	5.114	65	29356	10.38	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	20.76%#	
64) SURR3,Toluene-d8	7.949	98	89559	10.35	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	20.70%#	
69) SURR2,BFB	10.729	95	38118	11.29	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	22.58%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	13145m	4.29	ug/L	
3) Chloromethane	1.145	50	17581	4.55	ug/L	95
4) Vinyl Chloride	1.213	62	13716	4.39	ug/L	73
5) Bromomethane	1.408	94	9415	3.70	ug/L	93
6) Chloroethane	1.475	64	7434	3.85	ug/L	95
7) Freon 21	1.603	67	22404	4.49	ug/L	99
8) Trichlorofluoromethane	1.645	101	15880	4.20	ug/L	92
9) Diethyl Ether	1.847	59	10080	4.75	ug/L	95
10) Freon 123a	1.847	67	13489	4.70	ug/L	87
11) Freon 123	1.889	83	15274	4.70	ug/L	96
12) Acrolein	1.926	56	12985	26.05	ug/L	99
13) 1,1-Dicethene	2.005	96	9925	4.71	ug/L	96
14) Freon 113	2.011	101	10163	4.68	ug/L	97
15) Acetone	2.048	43	6465	4.38	ug/L	90
16) 2-Propanol	2.157	45	24883	113.43	ug/L	98
17) Iodomethane	2.115	142	3832	2.68	ug/L	98
18) Carbon Disulfide	2.170	76	33754	5.12	ug/L	96
19) Acetonitrile	2.261	40	3588	22.92	ug/L #	88
20) Allyl Chloride	2.285	76	4636	4.57	ug/L #	86
21) Methyl Acetate	2.310	43	10741	5.15	ug/L	92
22) Methylene Chloride	2.389	84	11763	4.68	ug/L #	85
23) TBA	2.505	59	44015	118.78	ug/L	93
24) Acrylonitrile	2.602	53	24056	23.77	ug/L	96
25) Methyl-t-Butyl Ether	2.651	73	38011	5.15	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	11713	4.91	ug/L	97
27) 1,1-Dicethane	3.066	63	20607	4.75	ug/L	94
28) Vinyl Acetate	3.151	86	3007	5.68	ug/L #	78
29) DIPE	3.182	45	40171	4.64	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.169	53	18065	4.77	ug/L	100
31) ETBE	3.639	59	39988	5.24	ug/L	92
32) 2,2-Dichloropropane	3.779	77	18764	5.62	ug/L	92
33) cis-1,2-Dichloroethene	3.785	96	12950	4.76	ug/L	95
34) 2-Butanone	3.828	43	8282	5.02	ug/L	95
35) Propionitrile	3.889	54	10026	24.21	ug/L	94
36) Bromochloromethane	4.127	130	8401	5.27	ug/L #	70
37) Methacrylonitrile	4.120	67	5761	5.15	ug/L	85
38) Tetrahydrofuran	4.218	42	4915	4.82	ug/L	97
39) Chloroform	4.273	83	20833	4.83	ug/L	94
40) 1,1,1-Trichloroethane	4.547	97	18319	5.20	ug/L	94



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:55:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	38815	5.37	ug/L	98
43) Cyclohexane	4.645	41	12497	4.72	ug/L	88
45) Carbontetrachloride	4.840	121	5006	5.45	ug/L	98
46) 1,1-Dichloropropene	4.852	75	16247	4.88	ug/L	99
48) Benzene	5.218	78	45868	4.89	ug/L	97
49) 1,2-Dichloroethane	5.261	62	17694	4.85	ug/L	96
50) Iso-Butyl Alcohol	5.261	43	17225	110.96	ug/L	91
51) n-Heptane	5.803	43	13093	3.51	ug/L	99
52) 1-Butanol	6.370	56	26179	281.96	ug/L	98
53) Trichloroethene	6.303	130	12927	4.99	ug/L	95
54) Methylcyclohexane	6.571	55	16493	4.67	ug/L	94
55) 1,2-Diclpropane	6.608	63	12569	4.76	ug/L	97
56) Dibromomethane	6.766	93	7827	4.92	ug/L	97
57) 1,4-Dioxane	6.858	88	4141	103.29	ug/L	98
58) Methyl Methacrylate	6.894	69	10235	5.33	ug/L	90
59) Bromodichloromethane	7.028	83	15918	5.06	ug/L	96
60) 2-Nitropropane	7.333	41	7776	12.29	ug/L #	78
61) 2-Chloroethylvinyl Ether	7.498	63	4185	6.55	ug/L	91
62) cis-1,3-Dichloropropene	7.626	75	20686	5.36	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	15036	5.07	ug/L	97
65) Toluene	8.028	91	49896	4.84	ug/L	96
66) trans-1,3-Dichloropropene	8.333	75	18520	5.49	ug/L	96
67) Ethyl Methacrylate	8.510	69	17047	5.14	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	11473	5.13	ug/L	96
71) Tetrachloroethene	8.674	164	10183	4.87	ug/L	96
72) 2-Hexanone	8.876	43	10384	4.95	ug/L	94
73) 1,3-Dichloropropane	8.717	76	20261	5.10	ug/L	93
74) Dibromochloromethane	8.967	129	12083	5.28	ug/L	98
75) N-Butyl Acetate	9.059	43	23102	5.08	ug/L	94
76) 1,2-Dibromoethane	9.065	107	11319	5.19	ug/L	96
77) Chlorobenzene	9.613	112	33810	5.03	ug/L	96
78) 1,1,1,2-Tetrachloroethane	9.711	131	11953	5.28	ug/L	96
79) Ethylbenzene	9.754	106	18614	5.24	ug/L #	88
80) (m+p)Xylene	9.875	106	44730	9.98	ug/L	99
81) o-Xylene	10.253	106	21842	4.97	ug/L	99
82) Styrene	10.266	104	38075	5.17	ug/L	96
83) Bromoform	10.418	173	7902	5.55	ug/L	95
84) Isopropylbenzene	10.613	105	57405	5.05	ug/L	99
85) Cyclohexanone	10.662	55	54076	99.17	ug/L	96
86) trans-1,4-Dichloro-2-B...	10.936	53	4167	5.80	ug/L	82
88) 1,1,2,2-Tetrachloroethane	10.887	83	16403	5.18	ug/L	99
89) Bromobenzene	10.851	156	14966	5.07	ug/L	96
90) 1,2,3-Trichloropropane	10.906	110	5295	5.33	ug/L	92
91) n-Propylbenzene	10.985	91	65935	4.86	ug/L	100
92) 2-Chlorotoluene	11.040	91	39604	4.99	ug/L	99
93) 4-Chlorotoluene	11.137	91	46812	4.85	ug/L	97
94) 1,3,5-Trimethylbenzene	11.144	105	47327	4.87	ug/L	97
95) tert-Butylbenzene	11.424	119	42208	5.03	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	47288	4.87	ug/L	93
97) sec-Butylbenzene	11.613	105	62120	4.93	ug/L	99
98) p-Isopropyltoluene	11.741	119	52060	4.83	ug/L	98
99) 1,3-Dclbenz	11.686	146	28107	4.84	ug/L	96
100) 1,4-Dclbenz	11.759	146	28999	4.85	ug/L	96
101) n-Butylbenzene	12.082	91	47003	4.53	ug/L	96
102) 1,2-Dclbenz	12.070	146	28353	5.06	ug/L	97
103) 1,2-Dibromo-3-chloropr...	12.704	157	3546	5.84	ug/L	90

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 13:55:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	22358	4.74	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	21691	4.95	ug/L	98
106) Hexachlorobt	13.515	225	11301	4.78	ug/L	94
107) Naphthalen	13.552	128	52145	5.23	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	20864	5.22	ug/L	96

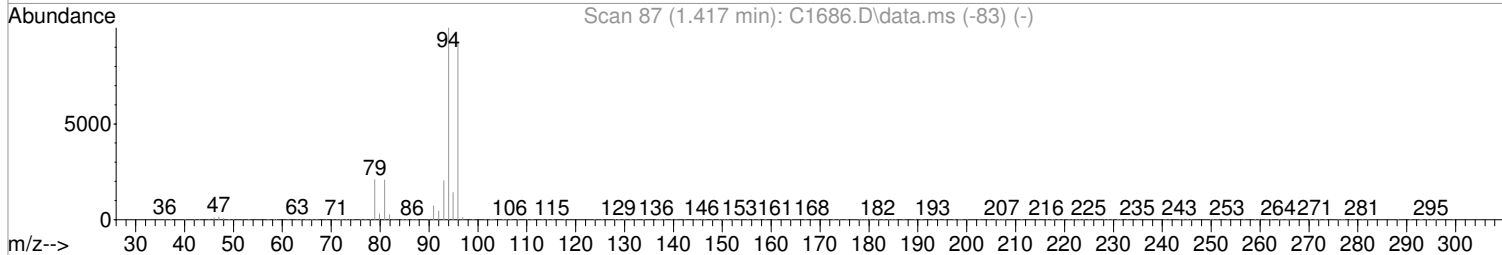
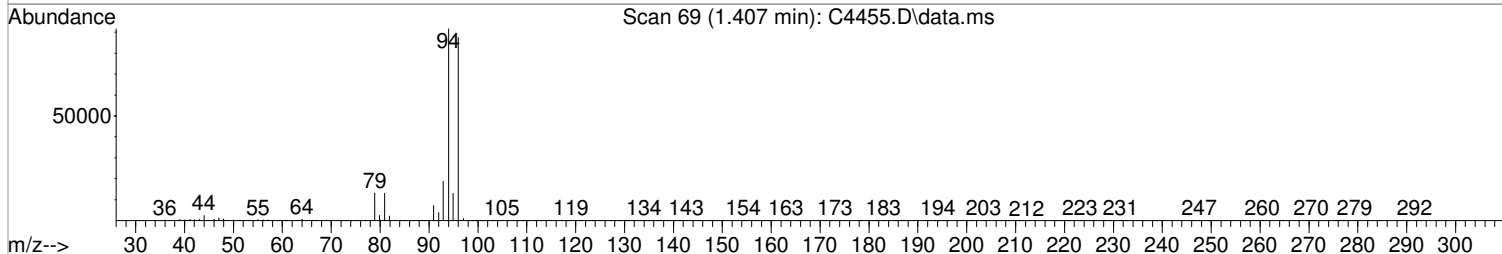
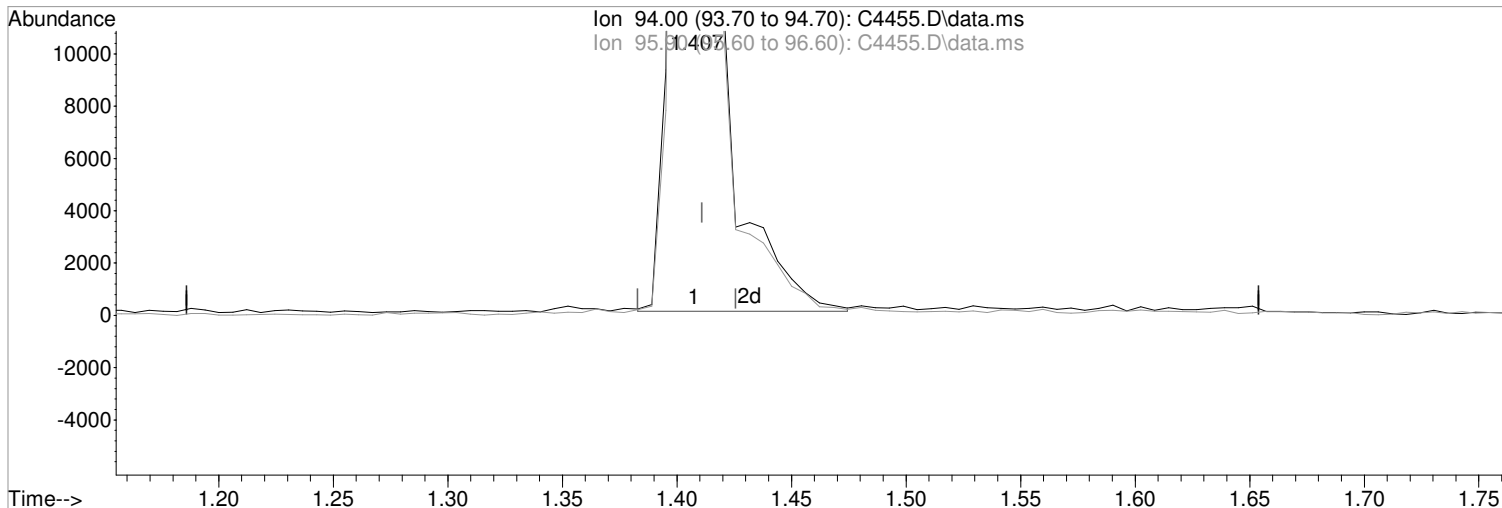
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4455.D  
 Acq On : 18 Jan 2018 2:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 14:50:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:18:11 2018  
 Response via : Initial Calibration



TIC: C4455.D\data.ms

(5) Bromomethane (P)  
 1.407min (-0.004) 36.02 ug/L m  
 response 85438

Manual Integration:

After

Poor integration.

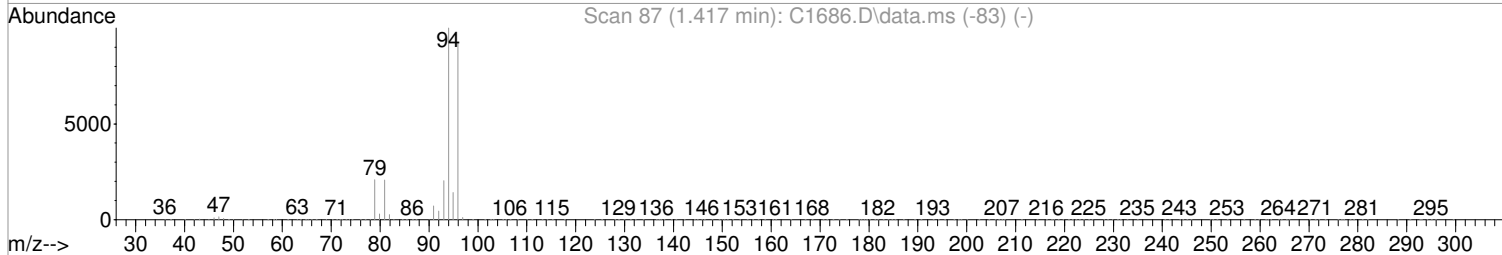
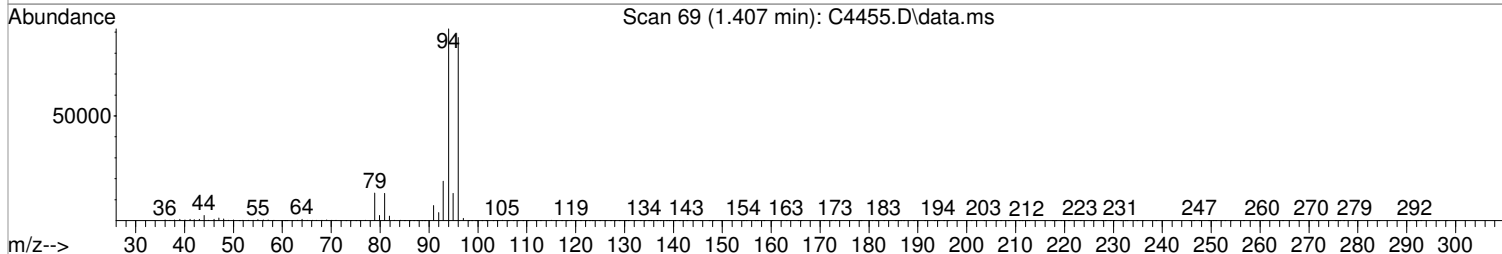
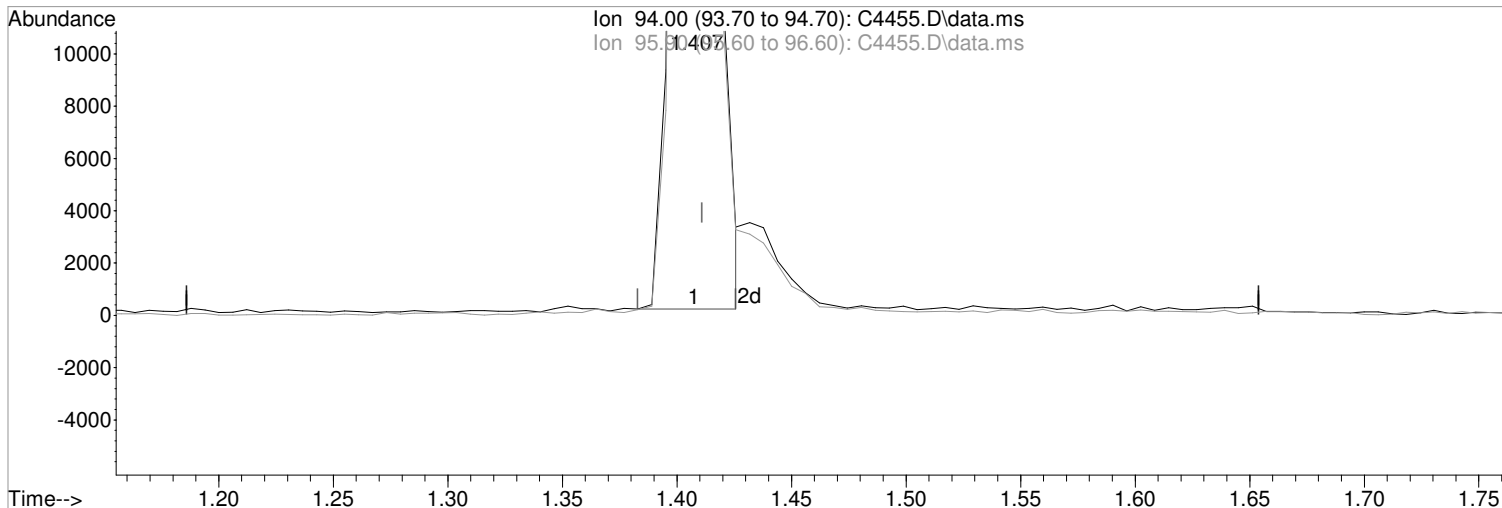
01/18/18

Ion	Exp%	Act%
94.00	100	100
95.90	92.60	95.43
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4455.D  
Acq On : 18 Jan 2018 2:24 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 14:50:08 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:18:11 2018  
Response via : Initial Calibration



TIC: C4455.D\data.ms

(5) Bromomethane (P)  
1.407min (-0.004) 34.21 ug/L  
response 81149

Manual Integration:  
Before

Ion	Exp%	Act%
94.00	100	100
95.90	92.60	95.43
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4455.D  
 Acq On : 18 Jan 2018 2:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 14:50:56 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:18:11 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	243855	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	366076	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	326764	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	173182	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	114715	49.30	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.60%		
47) SURR1,1,2-dichloroetha...	5.120	65	136985	47.68	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	95.36%		
64) SURR3,Toluene-d8	7.949	98	442394	49.67	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	99.34%		
69) SURR2,BFB	10.735	95	177148	49.96	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	99.92%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	158259	50.57	ug/L	99
3) Chloromethane	1.151	50	178416	44.61	ug/L	99
4) Vinyl Chloride	1.212	62	140105	44.73	ug/L	95
5) Bromomethane	1.407	94	85438m	36.02	ug/L	
6) Chloroethane	1.474	64	85475	43.90	ug/L	97
7) Freon 21	1.602	67	219524	44.62	ug/L	99
8) Trichlorofluoromethane	1.645	101	159567	43.35	ug/L	98
9) Diethyl Ether	1.846	59	104205	47.64	ug/L	96
10) Freon 123a	1.846	67	134445	47.39	ug/L	91
11) Freon 123	1.889	83	154063	47.91	ug/L	99
12) Acrolein	1.932	56	126788	238.40	ug/L	97
13) 1,1-Diclcethene	2.005	96	101310	46.78	ug/L	92
14) Freon 113	2.011	101	99865	46.07	ug/L	99
15) Acetone	2.041	43	56262	36.91	ug/L	92
16) 2-Propanol	2.157	45	255259	1047.02	ug/L	96
17) Iodomethane	2.121	142	74915	49.80	ug/L	98
18) Carbon Disulfide	2.175	76	333956	46.81	ug/L	99
19) Acetonitrile	2.255	40	39965	247.73	ug/L	97
20) Allyl Chloride	2.291	76	48671	45.70	ug/L	96
21) Methyl Acetate	2.310	43	104718	47.84	ug/L	99
22) Methylene Chloride	2.389	84	117220	45.30	ug/L	92
23) TBA	2.505	59	447638	1058.78	ug/L	89
24) Acrylonitrile	2.602	53	252525	241.32	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	388192	49.41	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	113900	45.97	ug/L	99
27) 1,1-Diclcethane	3.066	63	205313	46.09	ug/L	98
28) Vinyl Acetate	3.151	86	28703	49.05	ug/L #	82
29) DIPE	3.187	45	403683	45.80	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	177947	44.88	ug/L	98
31) ETBE	3.639	59	397334	48.90	ug/L	97
32) 2,2-Dichloropropane	3.779	77	181094	49.21	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	132377	46.92	ug/L	92
34) 2-Butanone	3.828	43	72568	41.61	ug/L	96
35) Propionitrile	3.889	54	102584	238.98	ug/L	98
36) Bromochloromethane	4.126	130	79046	47.41	ug/L #	86
37) Methacrylonitrile	4.120	67	56512	48.62	ug/L	99
38) Tetrahydrofuran	4.212	42	46429	43.70	ug/L	93
39) Chloroform	4.279	83	207889	46.57	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	184155	49.44	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4455.D  
 Acq On : 18 Jan 2018 2:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 14:50:56 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:18:11 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	383889	49.37	ug/L	98
43) Cyclohexane	4.645	41	120268	46.43	ug/L	93
45) Carbontetrachloride	4.846	121	48543	49.33	ug/L	98
46) 1,1-Dichloropropene	4.852	75	156341	46.11	ug/L	95
48) Benzene	5.218	78	452823	46.85	ug/L	98
49) 1,2-Dichloroethane	5.260	62	173621	46.19	ug/L	96
50) Iso-Butyl Alcohol	5.260	43	182538	1045.66	ug/L	93
51) n-Heptane	5.803	43	152234	42.33	ug/L	98
52) 1-Butanol	6.376	56	290502	2742.21	ug/L	93
53) Trichloroethene	6.303	130	123753	46.60	ug/L	96
54) Methylcyclohexane	6.571	55	164948	46.63	ug/L	97
55) 1,2-Diclpropane	6.614	63	123634	45.61	ug/L	94
56) Dibromomethane	6.766	93	78128	47.77	ug/L	98
57) 1,4-Dioxane	6.851	88	43186	1018.59	ug/L	92
58) Methyl Methacrylate	6.894	69	102776	49.71	ug/L	96
59) Bromodichloromethane	7.028	83	163516	48.88	ug/L	96
60) 2-Nitropropane	7.339	41	77887	115.17	ug/L	92
61) 2-Chloroethylvinyl Ether	7.492	63	48586	64.21	ug/L	89
62) cis-1,3-Dichloropropene	7.632	75	210538	49.91	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	146382	46.63	ug/L	97
65) Toluene	8.028	91	499043	47.25	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	196323	51.91	ug/L	97
67) Ethyl Methacrylate	8.510	69	185082	51.17	ug/L	94
68) 1,1,2-Trichloroethane	8.534	97	113033	48.32	ug/L	97
71) Tetrachloroethene	8.674	164	100276	47.06	ug/L	98
72) 2-Hexanone	8.875	43	110843	48.99	ug/L	96
73) 1,3-Dichloropropane	8.717	76	196291	47.72	ug/L	96
74) Dibromochloromethane	8.967	129	130985	51.97	ug/L	99
75) N-Butyl Acetate	9.058	43	250492	50.66	ug/L	98
76) 1,2-Dibromoethane	9.064	107	118513	50.71	ug/L	97
77) Chlorobenzene	9.613	112	340481	48.70	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	123951	50.51	ug/L	97
79) Ethylbenzene	9.753	106	176848	48.00	ug/L	98
80) (m+p)Xylene	9.875	106	445475	96.02	ug/L	99
81) o-Xylene	10.253	106	222052	48.82	ug/L	91
82) Styrene	10.265	104	388923	49.69	ug/L	97
83) Bromoform	10.418	173	90070	56.12	ug/L	99
84) Isopropylbenzene	10.613	105	577081	49.10	ug/L	100
85) Cyclohexanone	10.662	55	525839	897.31	ug/L	97
86) trans-1,4-Dichloro-2-B...	10.936	53	42665	52.23	ug/L #	67
88) 1,1,2,2-Tetrachloroethane	10.887	83	167092	51.63	ug/L	99
89) Bromobenzene	10.851	156	150136	50.91	ug/L	93
90) 1,2,3-Trichloropropane	10.905	110	53665	52.55	ug/L	92
91) n-Propylbenzene	10.985	91	655063	48.95	ug/L	99
92) 2-Chlorotoluene	11.040	91	392490	49.61	ug/L	99
93) 4-Chlorotoluene	11.137	91	468111	48.37	ug/L	99
94) 1,3,5-Trimethylbenzene	11.149	105	477410	49.29	ug/L	98
95) tert-Butylbenzene	11.424	119	425371	51.06	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	487812	50.04	ug/L	96
97) sec-Butylbenzene	11.613	105	616393	49.59	ug/L	99
98) p-Isopropyltoluene	11.741	119	525769	49.32	ug/L	98
99) 1,3-Dclbenz	11.686	146	284766	49.33	ug/L	98
100) 1,4-Dclbenz	11.765	146	293016	48.99	ug/L	98
101) n-Butylbenzene	12.082	91	480463	47.30	ug/L	97
102) 1,2-Dclbenz	12.070	146	281312	49.97	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	40792	60.37	ug/L	89



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4455.D  
Acq On : 18 Jan 2018 2:24 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD Inst : MSVOA14  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 14:50:56 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:18:11 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	224652	48.00	ug/L	99
105) 1,2,4-Tcbenzene	13.368	180	213685	48.74	ug/L	97
106) Hexachlorobt	13.515	225	116637	50.06	ug/L	98
107) Naphthalen	13.557	128	544813	52.60	ug/L	99
108) 1,2,3-Tclbenzene	13.746	180	203443	50.05	ug/L	99

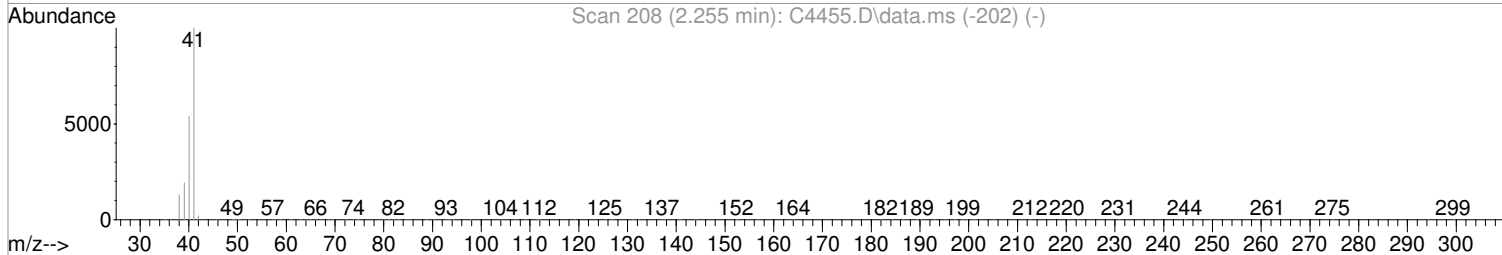
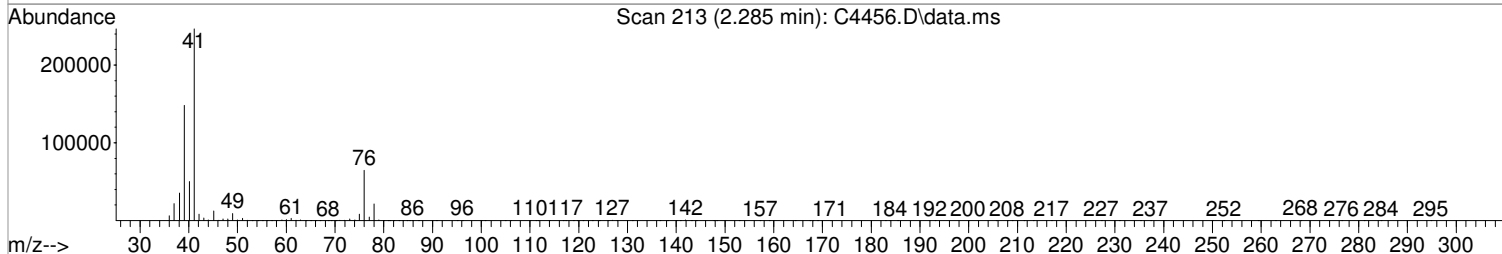
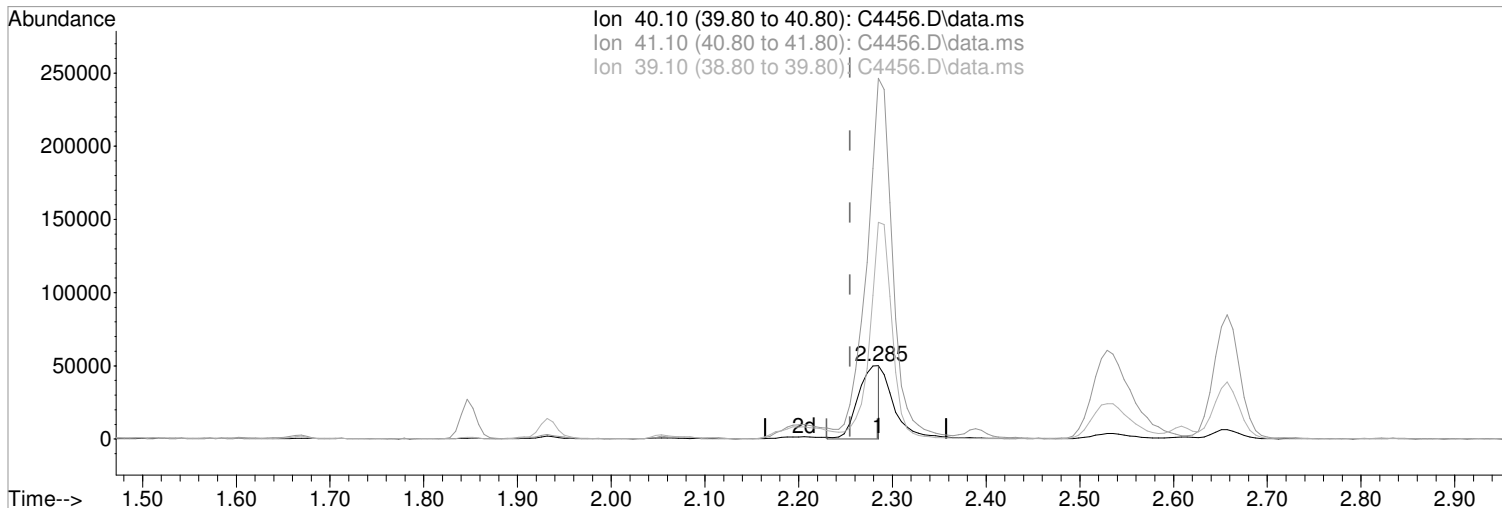
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:04:03 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.030) 494.10 ug/L m  
response 81121

Manual Integration:

After

Poor integration.

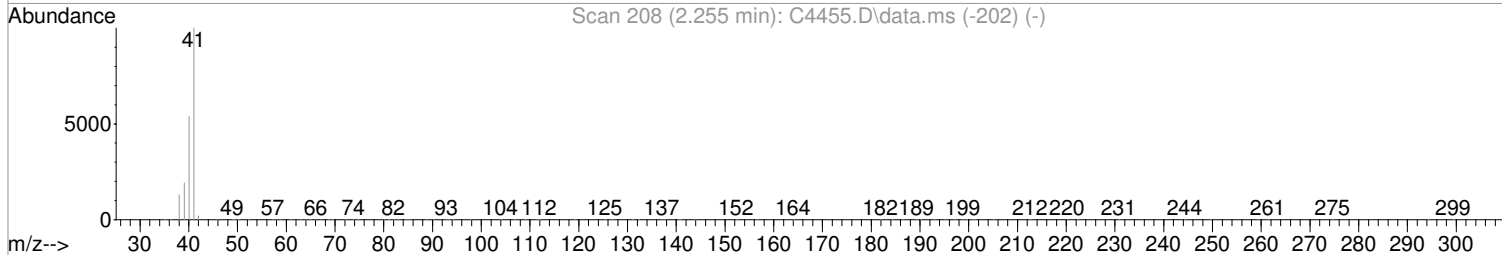
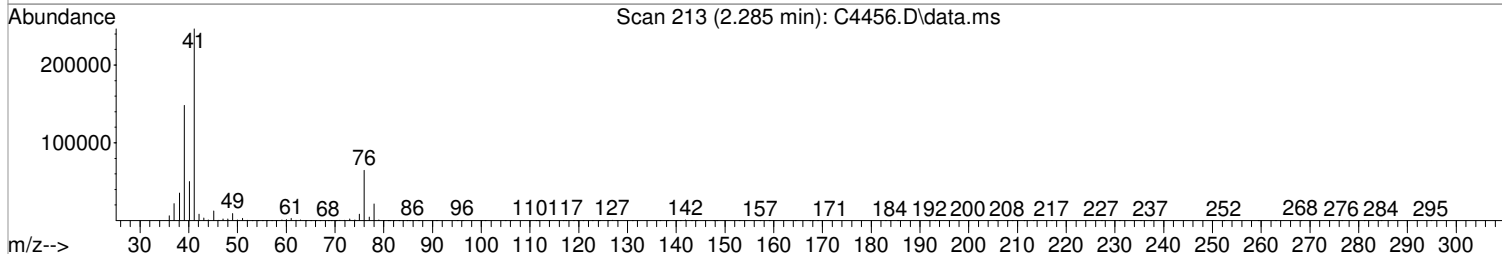
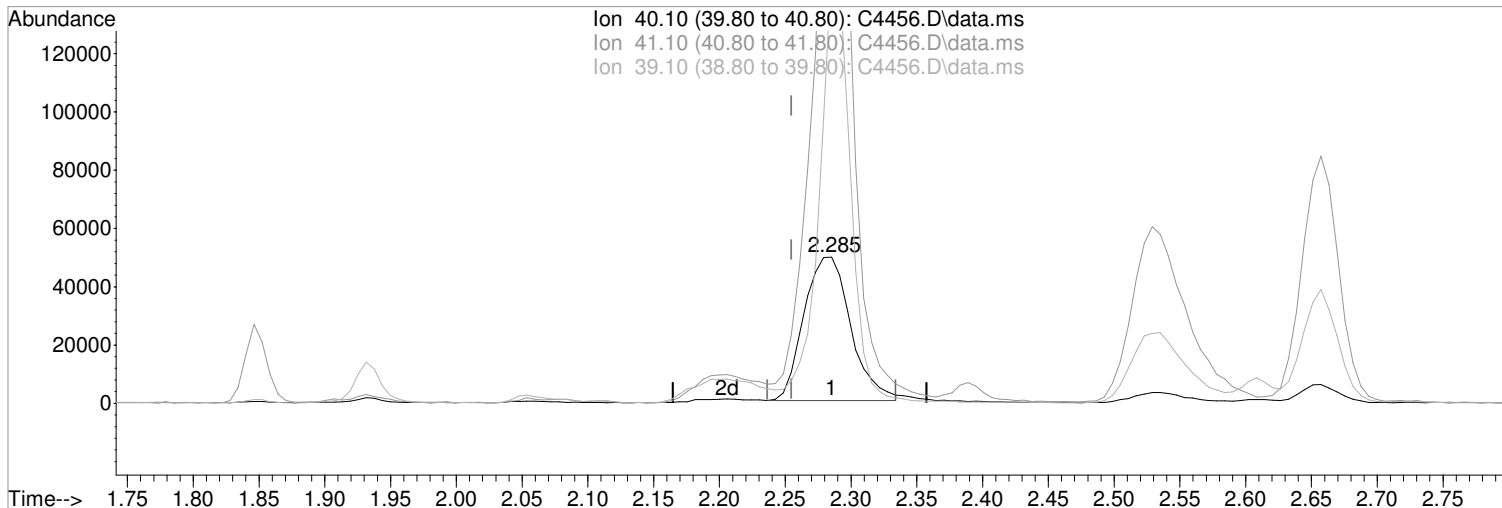
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	491.04#
39.10	36.10	294.80#
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:03:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.030) 740.40 ug/L  
response 121559

Manual Integration:  
Before

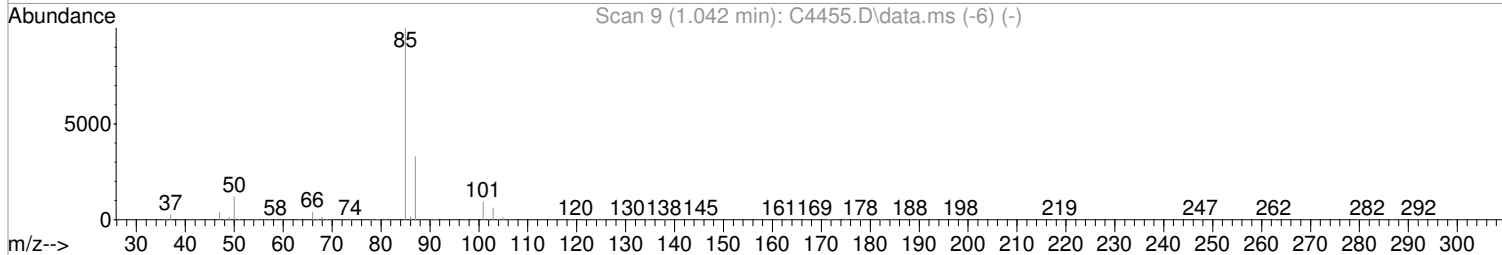
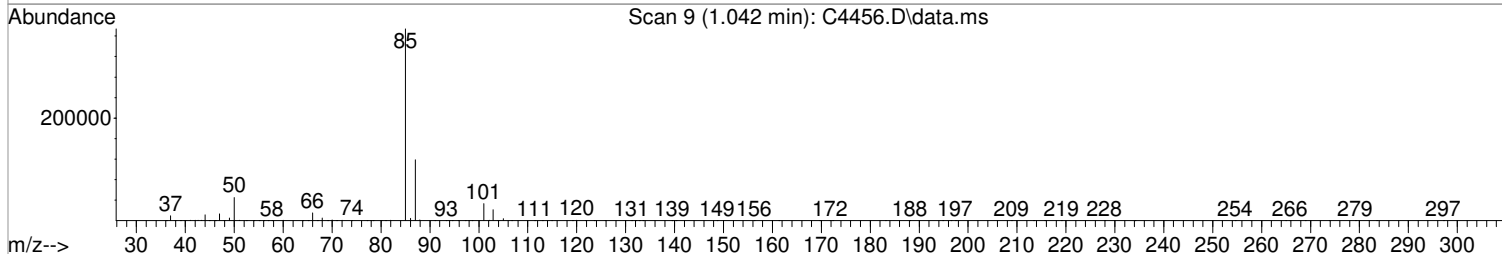
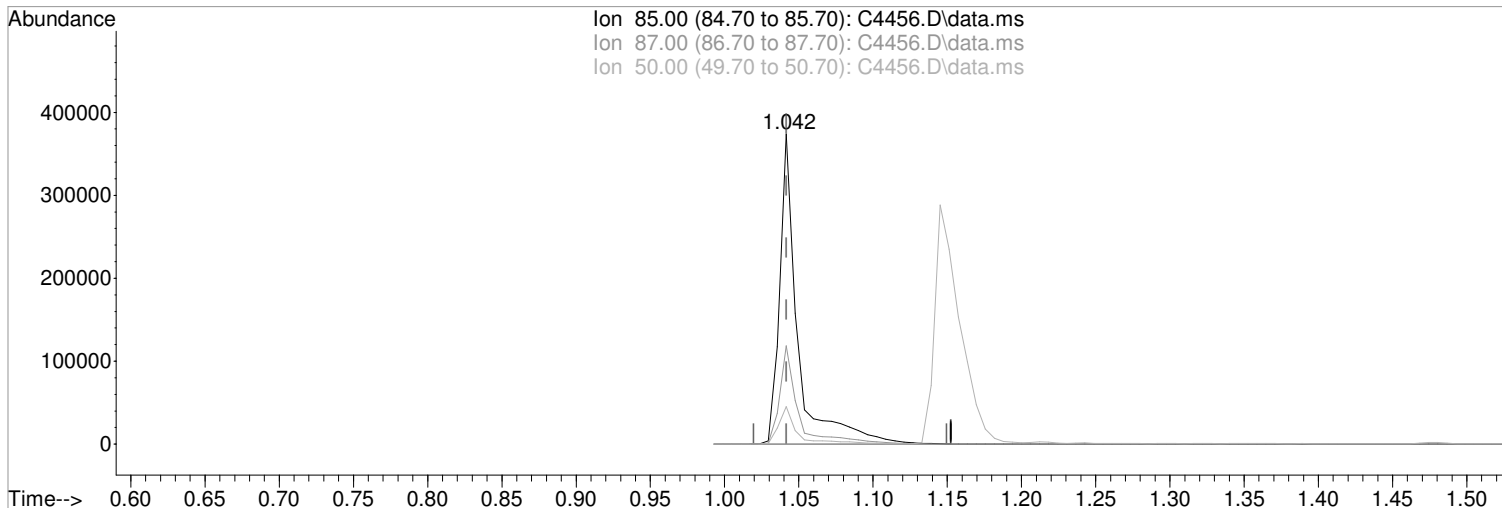
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	491.04#
39.10	36.10	294.80#
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:03:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (0.000) 107.23 ug/L m  
response 321377

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	31.67
50.00	12.10	12.04
0.00	0.00	0.00

Manual Integration:

After

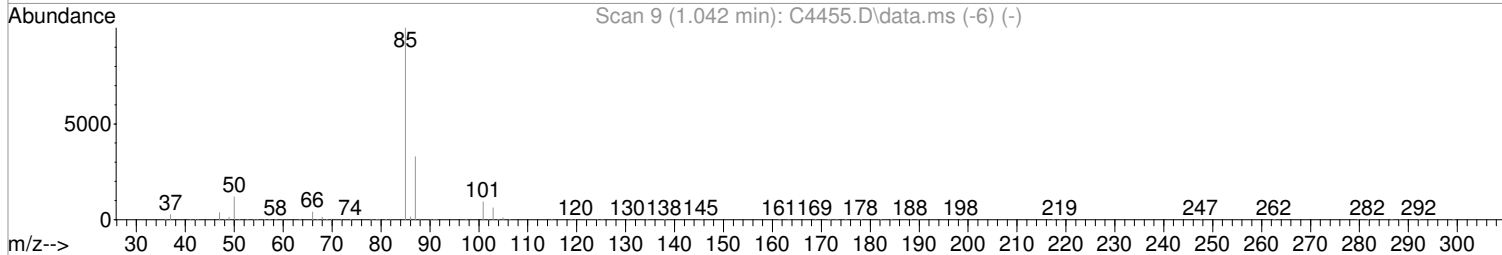
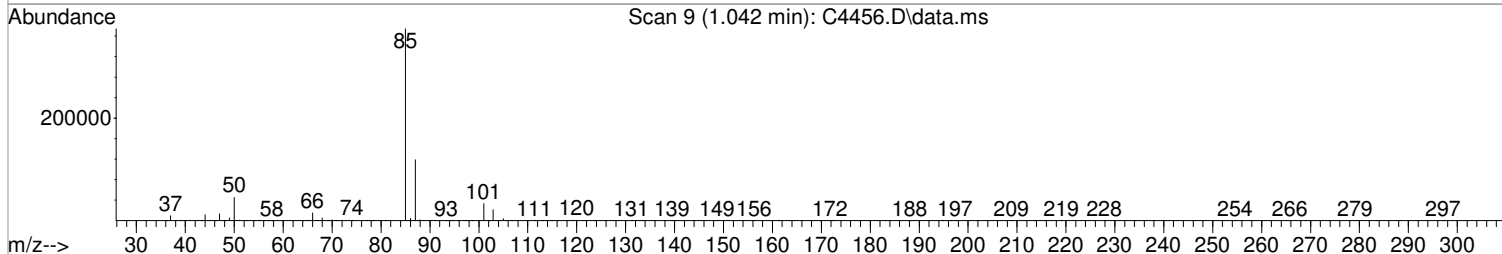
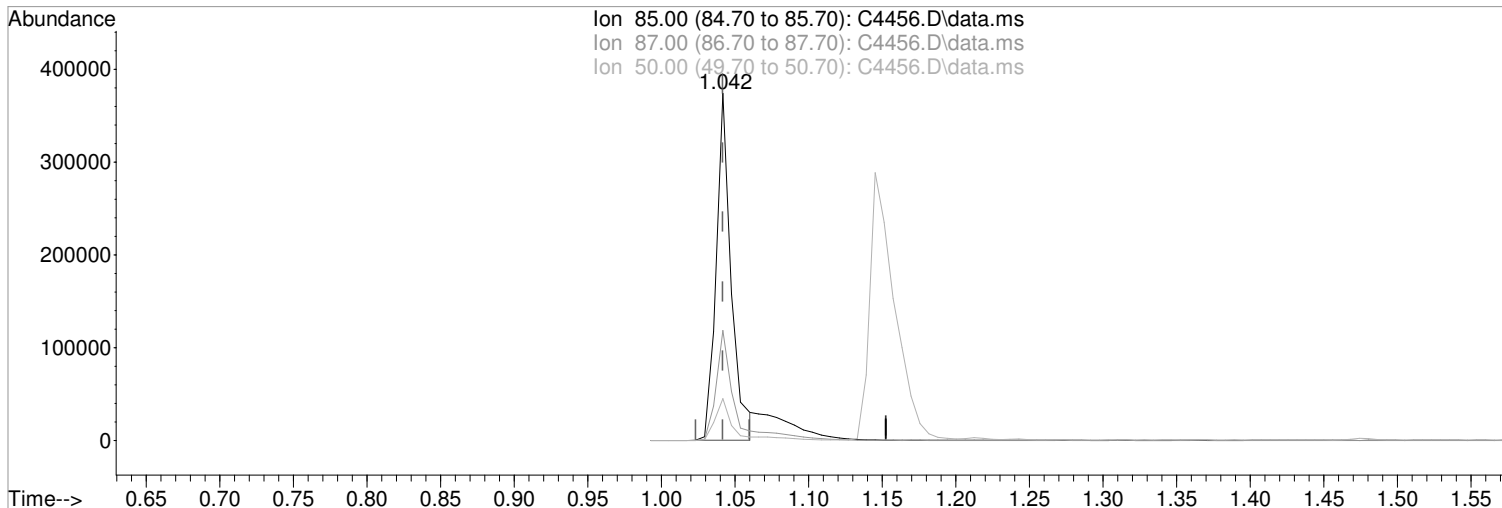
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:03:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (0.000) 88.45 ug/L  
response 265083

Manual Integration:

Before

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	31.67
50.00	12.10	12.04
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	242978	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	365887	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	324709	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	175018	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	235988	104.06	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	208.12%#		
47) SURR1,1,2-dichloroetha...	5.120	65	275663	99.10	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	198.20%#		
64) SURR3,Toluene-d8	7.949	98	885726	101.78	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	203.56%#		
69) SURR2,BFB	10.735	95	345373	94.86	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	189.72%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	321377m	107.23	ug/L	
3) Chloromethane	1.145	50	338039	82.71	ug/L	99
4) Vinyl Chloride	1.212	62	282781	98.54	ug/L	100
5) Bromomethane	1.420	94	145496	70.57	ug/L	98
6) Chloroethane	1.474	64	134310	76.91	ug/L	99
7) Freon 21	1.602	67	422720	98.17	ug/L	99
8) Trichlorofluoromethane	1.645	101	312489	93.54	ug/L	100
9) Diethyl Ether	1.846	59	211675	100.45	ug/L	99
10) Freon 123a	1.846	67	271644	101.51	ug/L	100
11) Freon 123	1.889	83	311161	101.78	ug/L	98
12) Acrolein	1.932	56	265099	501.10	ug/L	100
13) 1,1-Dicethene	2.005	96	207770	97.51	ug/L	99
14) Freon 113	2.011	101	204307	98.42	ug/L	100
15) Acetone	2.054	43	100250	56.43	ug/L	95
16) 2-Propanol	2.200	45	517360	2040.54	ug/L	98
17) Iodomethane	2.121	142	224029	213.82	ug/L	97
18) Carbon Disulfide	2.175	76	667114	90.08	ug/L	99
19) Acetonitrile	2.285	40	81121m	494.10	ug/L	
20) Allyl Chloride	2.291	76	100243	95.54	ug/L	# 88
21) Methyl Acetate	2.316	43	211486	100.41	ug/L	97
22) Methylene Chloride	2.389	84	236472	90.45	ug/L	99
23) TBA	2.529	59	868711	1856.52	ug/L	100
24) Acrylonitrile	2.608	53	503192	502.34	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	776161	97.97	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	229204	92.69	ug/L	98
27) 1,1-Dicethane	3.066	63	413169	95.56	ug/L	99
28) Vinyl Acetate	3.151	86	63964	107.74	ug/L	97
29) DIPE	3.187	45	819324	99.94	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.175	53	360872	91.71	ug/L	100
31) ETBE	3.639	59	808248	98.68	ug/L	99
32) 2,2-Dichloropropane	3.779	77	362826	92.89	ug/L	100
33) cis-1,2-Dichloroethene	3.785	96	266384	93.93	ug/L	100
34) 2-Butanone	3.834	43	143994	82.14	ug/L	97
35) Propionitrile	3.901	54	205154	483.49	ug/L	97
36) Bromochloromethane	4.120	130	157708	91.25	ug/L	96
37) Methacrylonitrile	4.126	67	111653	94.99	ug/L	94
38) Tetrahydrofuran	4.218	42	92034	85.25	ug/L	98
39) Chloroform	4.279	83	419819	95.16	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	372916	100.32	ug/L	99



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	779800	98.39	ug/L	99
43) Cyclohexane	4.645	41	241085	103.56	ug/L	99
45) Carbontetrachloride	4.846	121	100917	99.03	ug/L	99
46) 1,1-Dichloropropene	4.852	75	318926	97.09	ug/L	97
48) Benzene	5.224	78	913705	94.39	ug/L	99
49) 1,2-Dichloroethane	5.260	62	346326	93.16	ug/L	100
50) Iso-Butyl Alcohol	5.291	43	367503	2030.83	ug/L	99
51) n-Heptane	5.803	43	309257	96.10	ug/L	98
52) 1-Butanol	6.406	56	600876	5673.26	ug/L	99
53) Trichloroethene	6.303	130	249762	92.61	ug/L	98
54) Methylcyclohexane	6.571	55	323338	95.69	ug/L	100
55) 1,2-Diclpropane	6.614	63	250864	94.87	ug/L	96
56) Dibromomethane	6.766	93	159172	98.87	ug/L	98
57) 1,4-Dioxane	6.888	88	85051	1971.93	ug/L	85
58) Methyl Methacrylate	6.894	69	205230	97.50	ug/L	97
59) Bromodichloromethane	7.028	83	329666	97.56	ug/L	99
60) 2-Nitropropane	7.339	41	160238	213.75	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	90739	108.15	ug/L	99
62) cis-1,3-Dichloropropene	7.632	75	423609	99.29	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	298437	97.85	ug/L	98
65) Toluene	8.028	91	1004685	96.23	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	398650	101.87	ug/L	99
67) Ethyl Methacrylate	8.510	69	373888	102.27	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	225042	94.48	ug/L	99
71) Tetrachloroethene	8.680	164	200456	93.09	ug/L	98
72) 2-Hexanone	8.875	43	221844	102.46	ug/L	99
73) 1,3-Dichloropropane	8.717	76	394927	96.37	ug/L	100
74) Dibromochloromethane	8.967	129	265348	102.47	ug/L	99
75) N-Butyl Acetate	9.058	43	485781	98.02	ug/L	99
76) 1,2-Dibromoethane	9.064	107	238149	100.45	ug/L	100
77) Chlorobenzene	9.613	112	677008	95.30	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	250194	98.69	ug/L	98
79) Ethylbenzene	9.753	106	353328	95.45	ug/L	97
80) (m+p)Xylene	9.875	106	887166	191.27	ug/L	99
81) o-Xylene	10.253	106	439549	95.54	ug/L	98
82) Styrene	10.271	104	768004	96.91	ug/L	97
83) Bromoform	10.418	173	178963	105.59	ug/L	100
84) Isopropylbenzene	10.613	105	1153568	98.22	ug/L	100
85) Cyclohexanone	10.668	55	1008190	1842.27	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.936	53	84054	97.76	ug/L	98
88) 1,1,2,2-Tetrachloroethane	10.887	83	325487	96.89	ug/L	100
89) Bromobenzene	10.851	156	296118	94.74	ug/L	99
90) 1,2,3-Trichloropropane	10.912	110	102751	93.98	ug/L	91
91) n-Propylbenzene	10.985	91	1297185	97.11	ug/L	100
92) 2-Chlorotoluene	11.040	91	776538	95.21	ug/L	100
93) 4-Chlorotoluene	11.137	91	918934	93.77	ug/L	99
94) 1,3,5-Trimethylbenzene	11.149	105	944965	96.05	ug/L	99
95) tert-Butylbenzene	11.424	119	843285	98.29	ug/L	100
96) 1,2,4-Trimethylbenzene	11.466	105	959663	95.61	ug/L	99
97) sec-Butylbenzene	11.613	105	1237627	99.22	ug/L	99
98) p-Isopropyltoluene	11.741	119	1050139	97.49	ug/L	100
99) 1,3-Dclbenz	11.686	146	557433	92.28	ug/L	99
100) 1,4-Dclbenz	11.765	146	560244	89.16	ug/L	98
101) n-Butylbenzene	12.082	91	948995	96.08	ug/L	100
102) 1,2-Dclbenz	12.070	146	552595	93.32	ug/L	97
103) 1,2-Dibromo-3-chloropr...	12.704	157	80116	107.25	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD Inst : MSVOA14  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 18 16:13:12 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration

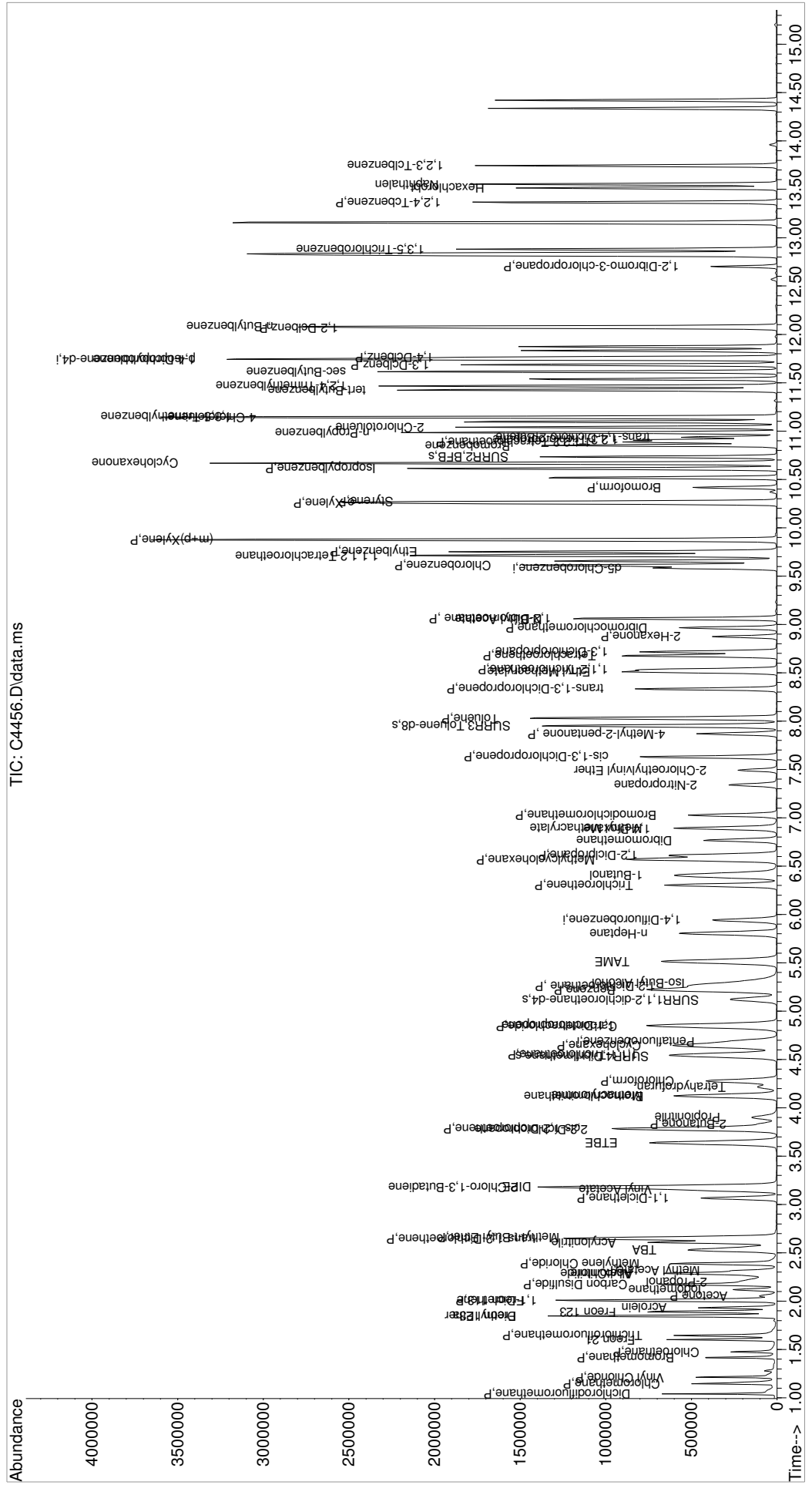
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	424924	87.65	ug/L	100
105) 1,2,4-Tcbenzene	13.368	180	413011	89.90	ug/L	99
106) Hexachlorobt	13.515	225	223658	93.11	ug/L	100
107) Naphthalen	13.551	128	1062951	96.55	ug/L	98
108) 1,2,3-Tclbenzene	13.746	180	394044	91.00	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

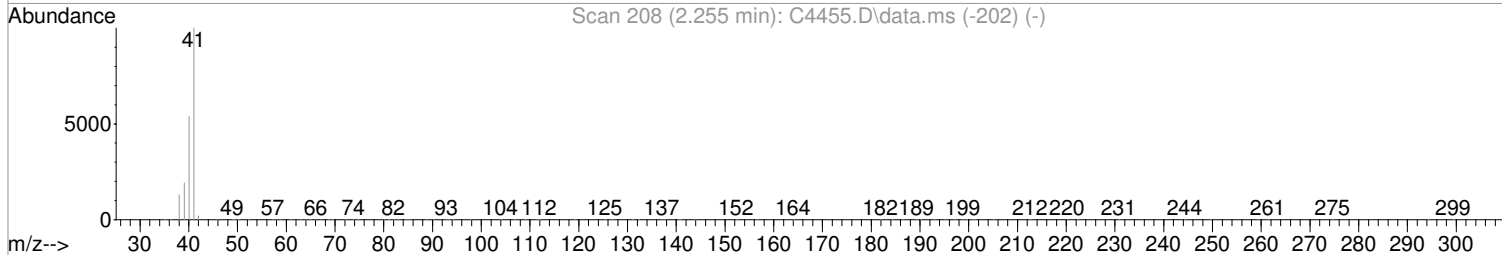
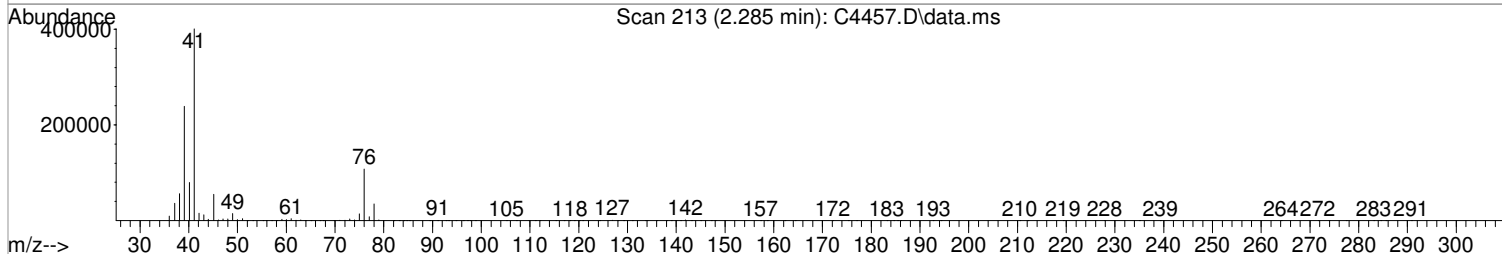
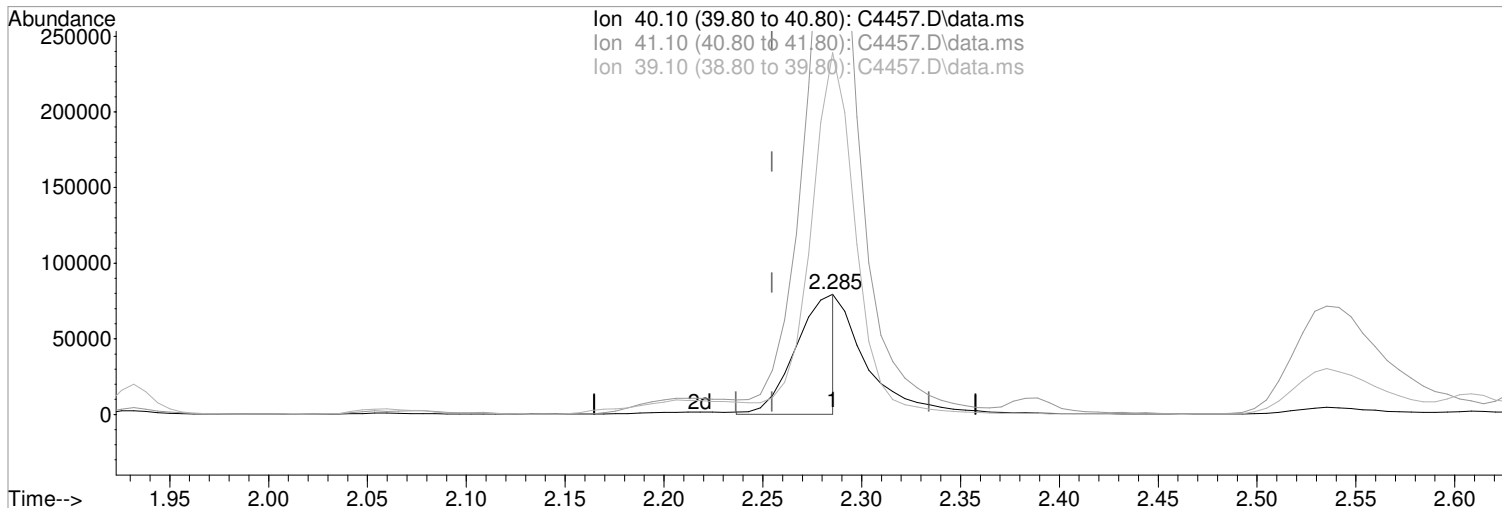
Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4457.D  
Acq On : 18 Jan 2018 3:11 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:37:15 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:05:19 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.031) 724.47 ug/L m  
response 113266

Manual Integration:  
After  
Poor integration.

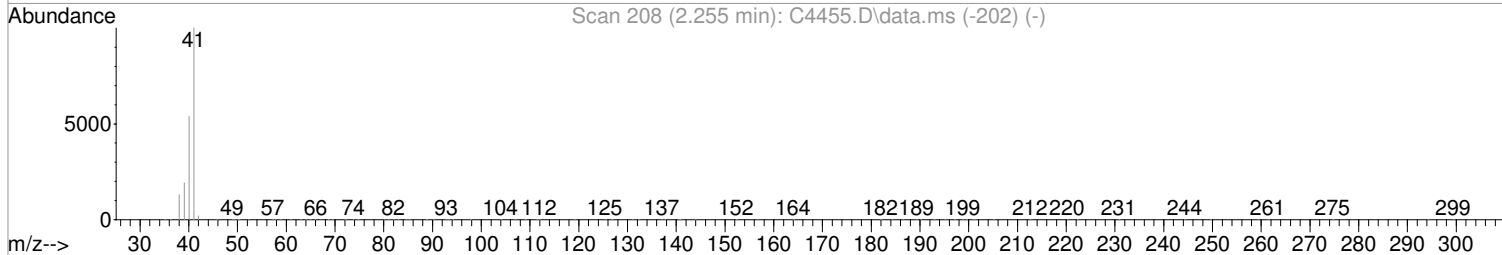
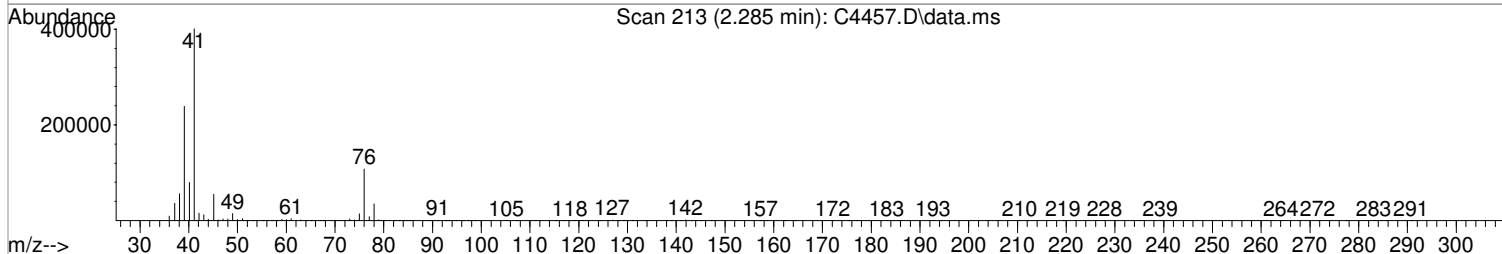
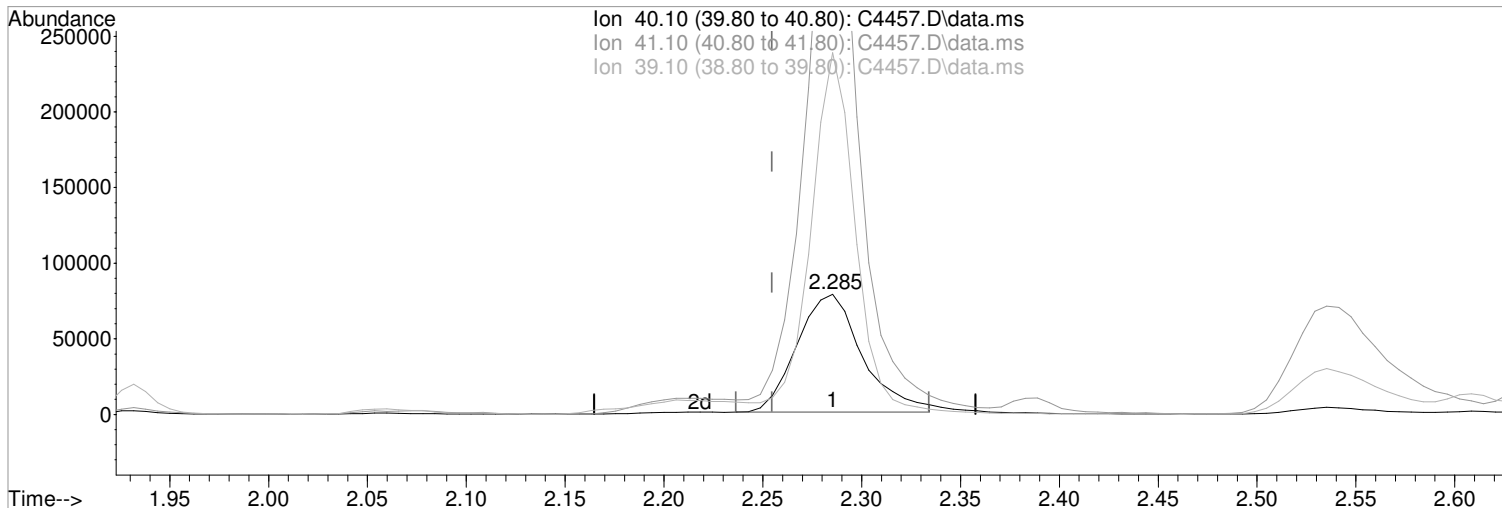
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	503.77#
39.10	36.10	300.65#
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:37:15 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration



(19) Acetonitrile Manual Integration:  
 2.285min (+0.031) 1141.33 ug/L Before  
 response 178439  
 01/18/18

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	503.77#
39.10	36.10	300.65#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	240960	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	362266	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	324682	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	171752	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	451819	199.20	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	398.40%#		
47) SURR1,1,2-dichloroetha...	5.120	65	521105	189.64	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	379.28%#		
64) SURR3,Toluene-d8	7.949	98	1704691	196.97	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	393.94%#		
69) SURR2,BFB	10.735	95	660737	185.68	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	371.36%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	516309	171.64	ug/L	99
3) Chloromethane	1.145	50	526763	133.82	ug/L	100
4) Vinyl Chloride	1.212	62	450050	158.53	ug/L	99
5) Bromomethane	1.414	94	228654	117.60	ug/L	98
6) Chloroethane	1.475	64	191857	115.21	ug/L	98
7) Freon 21	1.596	67	649107	152.47	ug/L	99
8) Trichlorofluoromethane	1.639	101	496210	151.41	ug/L	100
9) Diethyl Ether	1.846	59	323662	154.76	ug/L	98
10) Freon 123a	1.840	67	426312	160.24	ug/L	96
11) Freon 123	1.889	83	490672	161.37	ug/L	98
12) Acrolein	1.932	56	402580	767.07	ug/L	99
13) 1,1-Dicethene	2.005	96	333396	158.44	ug/L	96
14) Freon 113	2.011	101	336893	164.08	ug/L	95
15) Acetone	2.054	43	161417	98.80	ug/L	95
16) 2-Propanol	2.218	45	761819	3019.69	ug/L	98
17) Iodomethane	2.115	142	389211	314.86	ug/L	98
18) Carbon Disulfide	2.170	76	1098848	152.13	ug/L	99
19) Acetonitrile	2.285	40	113266m	724.47	ug/L	
20) Allyl Chloride	2.285	76	155418	150.49	ug/L	# 80
21) Methyl Acetate	2.316	43	325369	155.66	ug/L	98
22) Methylene Chloride	2.389	84	370903	145.37	ug/L	98
23) TBA	2.535	59	1265217	2759.53	ug/L	99
24) Acrylonitrile	2.608	53	735445	739.77	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	1164561	148.72	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	365452	150.86	ug/L	99
27) 1,1-Dicethane	3.066	63	652519	153.32	ug/L	99
28) Vinyl Acetate	3.145	86	95130	159.51	ug/L	# 92
29) DIPE	3.182	45	1296316	159.46	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.169	53	575335	149.50	ug/L	100
31) ETBE	3.639	59	1280747	158.03	ug/L	99
32) 2,2-Dichloropropane	3.779	77	583573	152.46	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	414921	149.04	ug/L	97
34) 2-Butanone	3.834	43	222794	132.09	ug/L	98
35) Propionitrile	3.907	54	301216	719.79	ug/L	94
36) Bromochloromethane	4.120	130	241636	143.07	ug/L	98
37) Methacrylonitrile	4.120	67	163173	141.16	ug/L	95
38) Tetrahydrofuran	4.218	42	131926	126.33	ug/L	96
39) Chloroform	4.279	83	652243	150.29	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	588586	159.59	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1232979	157.29	ug/L	100
43) Cyclohexane	4.639	41	380597	164.15	ug/L	99
45) Carbontetrachloride	4.840	121	160190	159.02	ug/L	100
46) 1,1-Dichloropropene	4.852	75	516025	159.44	ug/L	98
48) Benzene	5.218	78	1453431	153.07	ug/L	99
49) 1,2-Dichloroethane	5.260	62	525915	144.53	ug/L	99
50) Iso-Butyl Alcohol	5.291	43	535088	2978.81	ug/L	99
51) n-Heptane	5.803	43	557154	176.01	ug/L	99
52) 1-Butanol	6.425	56	909315	8480.92	ug/L	99
53) Trichloroethene	6.303	130	399799	151.59	ug/L	98
54) Methylcyclohexane	6.571	55	534056	160.78	ug/L	97
55) 1,2-Diclpropane	6.614	63	391043	150.65	ug/L	96
56) Dibromomethane	6.766	93	239532	150.56	ug/L	99
57) 1,4-Dioxane	6.906	88	125221	2939.18	ug/L	89
58) Methyl Methacrylate	6.894	69	303192	146.08	ug/L	99
59) Bromodichloromethane	7.028	83	515669	154.76	ug/L	99
60) 2-Nitropropane	7.339	41	231786	308.75	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	138055	163.97	ug/L	98
62) cis-1,3-Dichloropropene	7.632	75	666579	157.99	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	441706	146.79	ug/L	99
65) Toluene	8.028	91	1597789	155.54	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	615211	158.29	ug/L	99
67) Ethyl Methacrylate	8.510	69	556135	153.06	ug/L	100
68) 1,1,2-Trichloroethane	8.534	97	341280	146.06	ug/L	98
71) Tetrachloroethene	8.674	164	325091	152.75	ug/L	98
72) 2-Hexanone	8.876	43	336676	154.88	ug/L	99
73) 1,3-Dichloropropane	8.717	76	600461	147.43	ug/L	99
74) Dibromochloromethane	8.967	129	410531	157.90	ug/L	97
75) N-Butyl Acetate	9.058	43	730387	147.87	ug/L	99
76) 1,2-Dibromoethane	9.065	107	361108	152.21	ug/L	99
77) Chlorobenzene	9.613	112	1070927	151.95	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	393998	155.76	ug/L	98
79) Ethylbenzene	9.753	106	562074	153.01	ug/L	97
80) (m+p)Xylene	9.875	106	1411427	306.55	ug/L	98
81) o-Xylene	10.253	106	694802	152.16	ug/L	95
82) Styrene	10.272	104	1217236	154.40	ug/L	96
83) Bromoform	10.418	173	275425	161.01	ug/L	100
84) Isopropylbenzene	10.613	105	1833869	156.62	ug/L	99
85) Cyclohexanone	10.674	55	1689416	3128.46	ug/L	96
86) trans-1,4-Dichloro-2-B...	10.936	53	123565	144.26	ug/L	99
88) 1,1,2,2-Tetrachloroethane	10.887	83	480916	146.64	ug/L	99
89) Bromobenzene	10.857	156	463616	152.49	ug/L	91
90) 1,2,3-Trichloropropane	10.912	110	148877	140.16	ug/L	95
91) n-Propylbenzene	10.985	91	2137663	163.87	ug/L	99
92) 2-Chlorotoluene	11.040	91	1254081	157.95	ug/L	98
93) 4-Chlorotoluene	11.137	91	1495223	157.10	ug/L	98
94) 1,3,5-Trimethylbenzene	11.149	105	1534854	160.02	ug/L	99
95) tert-Butylbenzene	11.424	119	1350160	160.82	ug/L	100
96) 1,2,4-Trimethylbenzene	11.466	105	1537764	157.27	ug/L	99
97) sec-Butylbenzene	11.613	105	2030490	166.10	ug/L	99
98) p-Isopropyltoluene	11.741	119	1722972	163.68	ug/L	99
99) 1,3-Dclbenz	11.686	146	896512	153.21	ug/L	99
100) 1,4-Dclbenz	11.765	146	901606	148.91	ug/L	98
101) n-Butylbenzene	12.082	91	1603587	166.53	ug/L	99
102) 1,2-Dclbenz	12.070	146	857214	149.17	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	115620	155.84	ug/L	97



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	719038	154.31	ug/L	99
105) 1,2,4-Tcbenzene	13.369	180	655328	147.85	ug/L	99
106) Hexachlorobt	13.515	225	378359	162.38	ug/L	100
107) Naphthalen	13.558	128	1573945	146.53	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	611171	146.02	ug/L	98

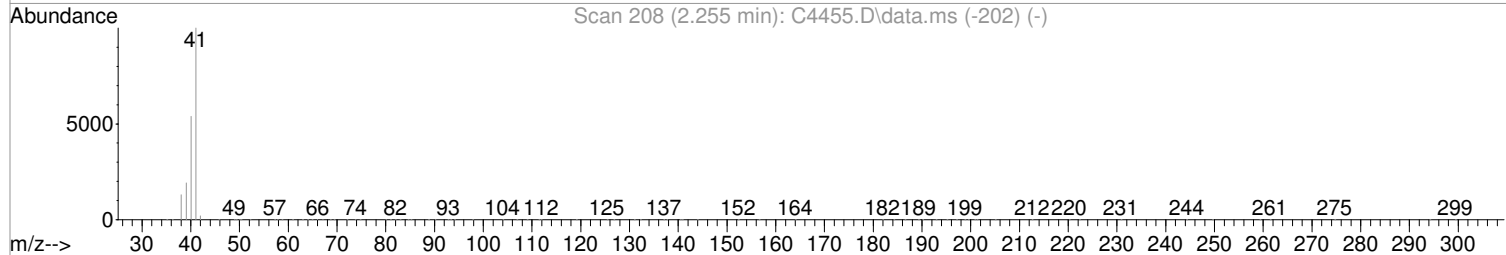
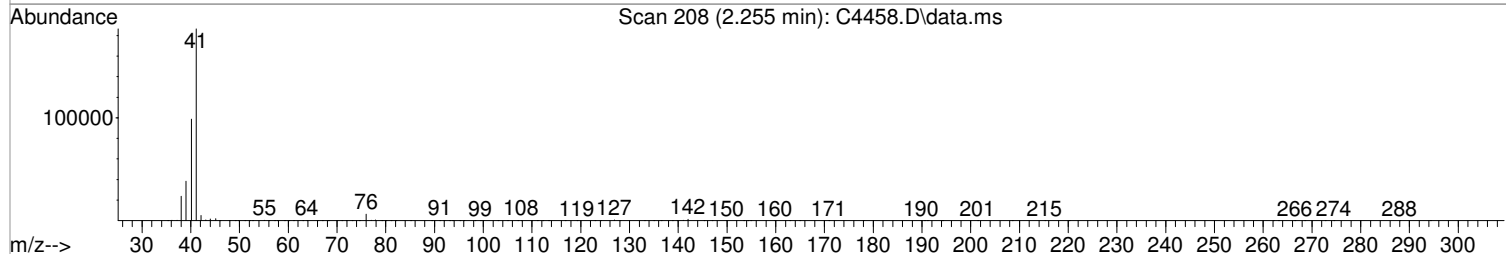
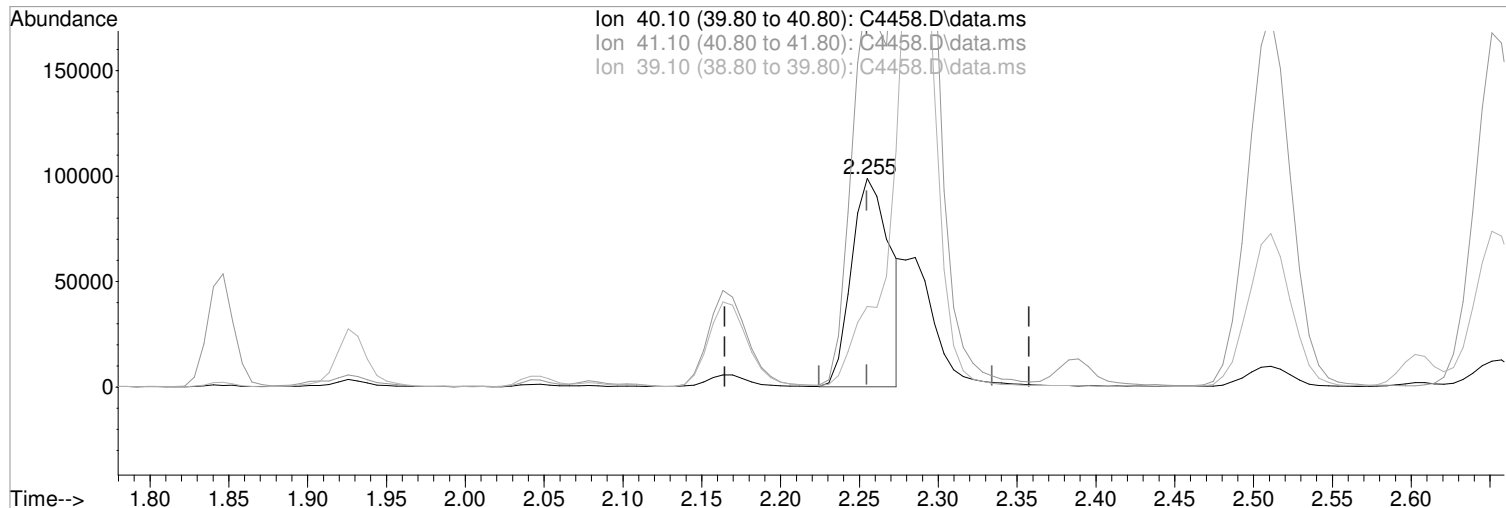
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4458.D  
Acq On : 18 Jan 2018 3:34 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:53:13 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:38:42 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (+0.000) 1104.33 ug/L m  
response 168524

Manual Integration:  
After  
Poor integration.

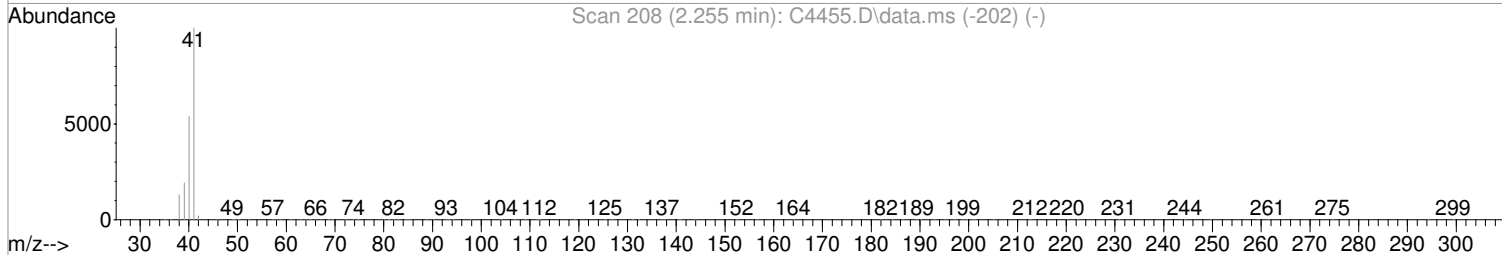
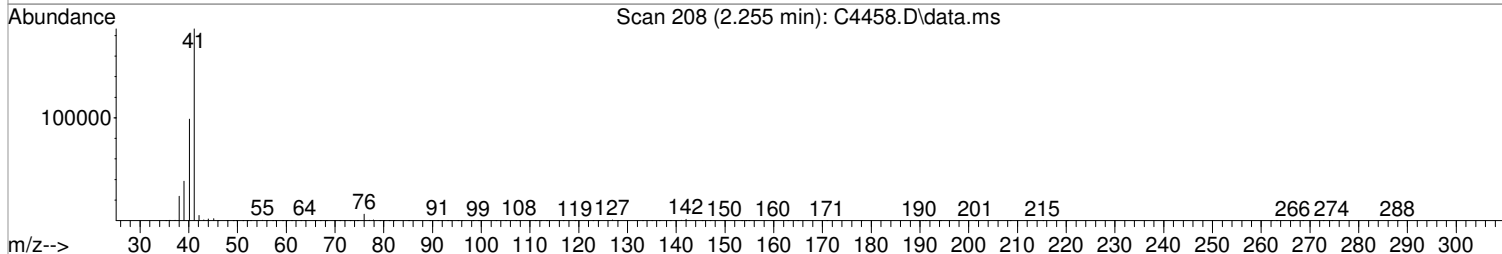
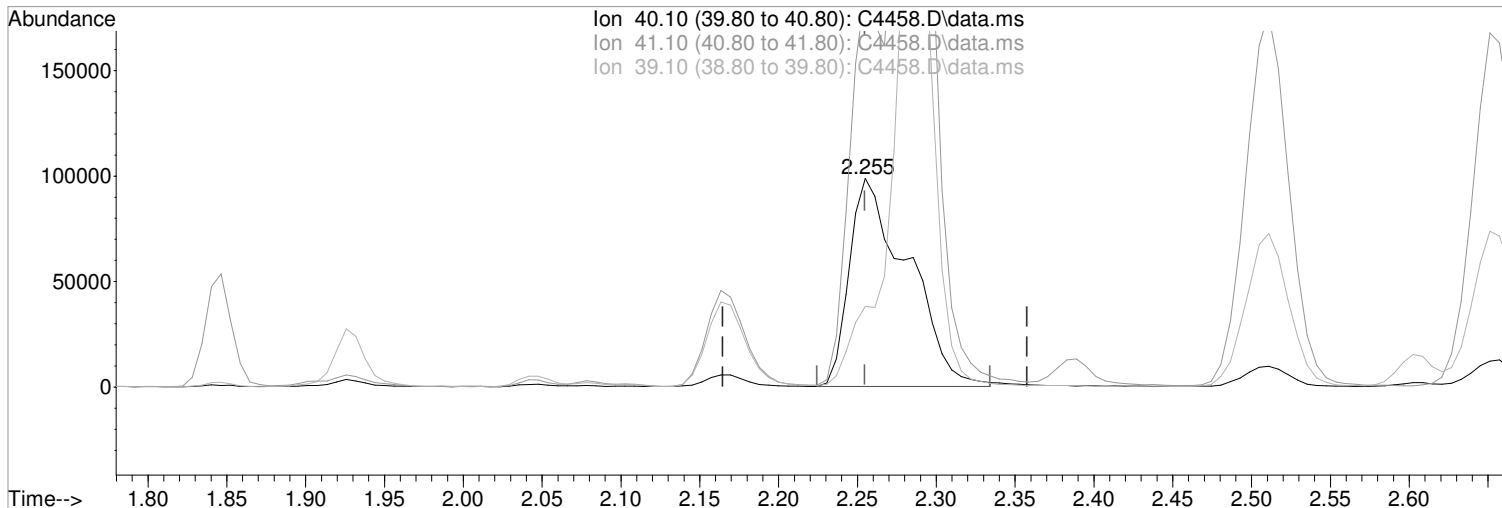
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	188.67
39.10	36.10	38.69
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4458.D  
Acq On : 18 Jan 2018 3:34 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:53:13 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:38:42 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (+0.000) 1667.70 ug/L  
response 254495

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	188.67
39.10	36.10	38.69
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4458.D  
 Acq On : 18 Jan 2018 3:34 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 15:53:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:38:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	236344	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	360212	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	318369	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.747	152	172937	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	114301	50.72	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	101.44%		
47) SURR1,1,2-dichloroetha...	5.120	65	132851	49.13	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	98.26%		
64) SURR3,Toluene-d8	7.949	98	439241	51.20	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	102.40%		
69) SURR2,BFB	10.735	95	176234	50.53	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	101.06%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	672301	223.27	ug/L	99
3) Chloromethane	1.145	50	676960	178.08	ug/L	99
4) Vinyl Chloride	1.212	62	589898	210.14	ug/L	98
5) Bromomethane	1.401	94	262459	142.01	ug/L	98
6) Chloroethane	1.468	64	341189	216.05	ug/L	100
7) Freon 21	1.603	67	864604	206.57	ug/L	100
8) Trichlorofluoromethane	1.639	101	658333	204.53	ug/L	99
9) Diethyl Ether	1.846	59	433359	210.31	ug/L	98
10) Freon 123a	1.846	67	554517	210.44	ug/L	98
11) Freon 123	1.889	83	645931	214.26	ug/L	99
12) Acrolein	1.926	56	541363	1048.24	ug/L	98
13) 1,1-Diclcethene	2.005	96	435007	209.09	ug/L	99
14) Freon 113	2.011	101	435084	213.18	ug/L	99
15) Acetone	2.042	43	196070	128.62	ug/L	96
16) 2-Propanol	2.163	45	1002875	4049.02	ug/L	98
17) Iodomethane	2.115	142	528396	376.67	ug/L	99
18) Carbon Disulfide	2.170	76	1446328	203.73	ug/L	100
19) Acetonitrile	2.255	40	168524m	1104.33	ug/L	
20) Allyl Chloride	2.285	76	199487	196.84	ug/L	97
21) Methyl Acetate	2.310	43	423446	205.44	ug/L	98
22) Methylene Chloride	2.389	84	492673	197.73	ug/L	98
23) TBA	2.511	59	1701498	3827.40	ug/L	98
24) Acrylonitrile	2.602	53	1013356	1041.25	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	1562371	203.67	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	481720	202.57	ug/L	99
27) 1,1-Diclcethane	3.066	63	861528	205.73	ug/L	99
28) Vinyl Acetate	3.145	86	129498	219.40	ug/L	# 90
29) DIPE	3.182	45	1675671	208.27	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.175	53	749032	198.54	ug/L	96
31) ETBE	3.639	59	1651393	206.16	ug/L	99
32) 2,2-Dichloropropane	3.779	77	763827	202.98	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	552098	202.38	ug/L	98
34) 2-Butanone	3.822	43	290459	178.61	ug/L	97
35) Propionitrile	3.889	54	411558	1008.47	ug/L	97
36) Bromochloromethane	4.120	130	318759	193.70	ug/L	97
37) Methacrylonitrile	4.126	67	226376	201.36	ug/L	93
38) Tetrahydrofuran	4.212	42	182836	182.61	ug/L	94
39) Chloroform	4.279	83	863174	202.72	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	776985	212.84	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4458.D  
 Acq On : 18 Jan 2018 3:34 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 15:53:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:38:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1601625	206.87	ug/L	99
43) Cyclohexane	4.639	41	497076	212.75	ug/L	99
45) Carbontetrachloride	4.846	121	213664	211.50	ug/L	100
46) 1,1-Dichloropropene	4.852	75	679628	209.30	ug/L	98
48) Benzene	5.218	78	1912274	201.96	ug/L	99
49) 1,2-Dichloroethane	5.260	62	703284	195.40	ug/L	99
50) Iso-Butyl Alcohol	5.266	43	732594	4105.72	ug/L	97
51) n-Heptane	5.803	43	689752	213.84	ug/L	99
52) 1-Butanol	6.388	56	1213663	11175.23	ug/L	100
53) Trichloroethene	6.303	130	525877	200.23	ug/L	98
54) Methylcyclohexane	6.571	55	689098	206.52	ug/L	97
55) 1,2-Diclpropane	6.614	63	524303	203.01	ug/L	98
56) Dibromomethane	6.766	93	325171	205.44	ug/L	99
57) 1,4-Dioxane	6.858	88	161028	3812.23	ug/L	94
58) Methyl Methacrylate	6.894	69	415224	201.96	ug/L	97
59) Bromodichloromethane	7.028	83	692974	208.21	ug/L	99
60) 2-Nitropropane	7.339	41	324128	432.41	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	211425	249.22	ug/L	98
62) cis-1,3-Dichloropropene	7.632	75	888108	210.09	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	594877	199.43	ug/L	99
65) Toluene	8.034	91	2117640	206.24	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	827120	212.35	ug/L	97
67) Ethyl Methacrylate	8.510	69	765339	211.22	ug/L	98
68) 1,1,2-Trichloroethane	8.534	97	461784	199.51	ug/L	99
71) Tetrachloroethene	8.680	164	426867	204.01	ug/L	100
72) 2-Hexanone	8.876	43	446309	208.42	ug/L	96
73) 1,3-Dichloropropane	8.717	76	809693	203.24	ug/L	99
74) Dibromochloromethane	8.967	129	561729	218.69	ug/L	98
75) N-Butyl Acetate	9.058	43	994622	205.78	ug/L	99
76) 1,2-Dibromoethane	9.065	107	490145	210.26	ug/L	100
77) Chlorobenzene	9.613	112	1413367	204.14	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	529295	212.23	ug/L	98
79) Ethylbenzene	9.753	106	754069	208.75	ug/L	96
80) (m+p)Xylene	9.875	106	1889233	417.16	ug/L	98
81) o-Xylene	10.253	106	926702	206.55	ug/L	97
82) Styrene	10.272	104	1629057	209.86	ug/L	97
83) Bromoform	10.418	173	386343	227.94	ug/L	99
84) Isopropylbenzene	10.613	105	2464591	213.31	ug/L	98
85) Cyclohexanone	10.668	55	2116890	3973.48	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.942	53	174092	208.42	ug/L	94
88) 1,1,2,2-Tetrachloroethane	10.887	83	672763	204.39	ug/L	100
89) Bromobenzene	10.851	156	625872	203.96	ug/L	98
90) 1,2,3-Trichloropropane	10.912	110	208647	196.93	ug/L	97
91) n-Propylbenzene	10.985	91	2835022	213.02	ug/L	98
92) 2-Chlorotoluene	11.040	91	1684203	209.09	ug/L	99
93) 4-Chlorotoluene	11.143	91	2008458	208.18	ug/L	99
94) 1,3,5-Trimethylbenzene	11.150	105	2061836	211.47	ug/L	98
95) tert-Butylbenzene	11.424	119	1821587	213.29	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	2073827	209.19	ug/L	98
97) sec-Butylbenzene	11.613	105	2706865	216.59	ug/L	98
98) p-Isopropyltoluene	11.747	119	2313031	215.43	ug/L	97
99) 1,3-Dclbenz	11.686	146	1211456	204.99	ug/L	99
100) 1,4-Dclbenz	11.765	146	1214753	199.46	ug/L	98
101) n-Butylbenzene	12.082	91	2136732	216.96	ug/L	99
102) 1,2-Dclbenz	12.070	146	1171130	202.56	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	167515	223.00	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4458.D  
 Acq On : 18 Jan 2018 3:34 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 15:53:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:38:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	932373	197.91	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	886883	199.13	ug/L	98
106) Hexachlorobt	13.515	225	510886	215.21	ug/L	99
107) Naphthalen	13.558	128	2229751	206.84	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	834926	198.86	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	241693	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	360668	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	321422	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	171355	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	114059	50.78	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	101.56%		
47) SURR1,1,2-dichloroetha...	5.120	65	135763	50.46	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	100.92%		
64) SURR3,Toluene-d8	7.949	98	435775	50.74	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.48%		
69) SURR2,BFB	10.735	95	174829	50.46	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	100.92%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	151294	48.98	ug/L	99
3) Chloromethane	1.145	50	167697	44.81	ug/L	100
4) Vinyl Chloride	1.212	62	146289	51.08	ug/L	99
5) Bromomethane	1.407	94	87290	49.16	ug/L	100
6) Chloroethane	1.474	64	84654	53.75	ug/L	99
7) Freon 21	1.602	67	226453	51.92	ug/L	98
8) Trichlorofluoromethane	1.645	101	177224	54.06	ug/L	98
9) Diethyl Ether	1.846	59	103047	48.95	ug/L	98
10) Freon 123a	1.846	67	155022	55.65	ug/L	95
11) Freon 123	1.889	83	169492	52.98	ug/L	97
12) Acrolein	1.926	56	44982	86.02	ug/L	99
13) 1,1-Diclcethene	2.005	96	105575	49.70	ug/L	99
14) Freon 113	2.011	101	114964	54.65	ug/L	98
15) Acetone	2.041	43	58789	53.68	ug/L	99
16) 2-Propanol	2.157	45	229080	917.42	ug/L	100
17) Iodomethane	2.115	142	93212	53.38	ug/L	99
18) Carbon Disulfide	2.169	76	345905	47.83	ug/L	99
19) Acetonitrile	2.255	40	38951	236.89	ug/L	97
20) Allyl Chloride	2.285	76	61391	59.50	ug/L	95
21) Methyl Acetate	2.310	43	95871	45.99	ug/L	96
22) Methylene Chloride	2.389	84	117043	46.49	ug/L	97
23) TBA	2.505	59	389571	874.76	ug/L	99
24) Acrylonitrile	2.602	53	234161	236.60	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	372812	47.81	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	118689	48.99	ug/L	99
27) 1,1-Diclcethane	3.066	63	209682	49.08	ug/L	97
28) Vinyl Acetate	3.145	86	28292	47.02	ug/L #	95
29) DIPE	3.181	45	401790	48.07	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.175	53	189675	49.65	ug/L	99
31) ETBE	3.633	59	385929	46.56	ug/L	99
32) 2,2-Dichloropropane	3.779	77	190819	49.69	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	134313	48.34	ug/L	98
34) 2-Butanone	3.822	43	71973	48.59	ug/L	96
35) Propionitrile	3.889	54	95380	231.31	ug/L	99
36) Bromochloromethane	4.120	130	79141	47.39	ug/L	97
37) Methacrylonitrile	4.120	67	52797	46.21	ug/L	95
38) Tetrahydrofuran	4.212	42	42238	45.69	ug/L	96
39) Chloroform	4.279	83	214643	49.58	ug/L	99
40) 1,1,1-Trichloroethane	4.553	97	191096	51.00	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	376392	47.12	ug/L	99
43) Cyclohexane	4.638	41	120852	49.71	ug/L	98
45) Carbontetrachloride	4.846	121	51583	50.67	ug/L	100
46) 1,1-Dichloropropene	4.852	75	164973	50.43	ug/L	97
48) Benzene	5.218	78	462921	48.92	ug/L	99
49) 1,2-Dichloroethane	5.260	62	170322	47.82	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	159035	906.12	ug/L	96
51) n-Heptane	5.803	43	180086	60.06	ug/L	96
52) 1-Butanol	6.370	56	259936	2357.92	ug/L	99
53) Trichloroethene	6.303	130	129477	49.25	ug/L	99
54) Methylcyclohexane	6.571	55	172273	50.04	ug/L	95
55) 1,2-Diclpropane	6.614	63	124464	48.09	ug/L	98
56) Dibromomethane	6.766	93	75254	47.38	ug/L	97
57) 1,4-Dioxane	6.851	88	38056	915.28	ug/L	88
58) Methyl Methacrylate	6.894	69	96478	47.10	ug/L	95
59) Bromodichloromethane	7.028	83	164558	49.24	ug/L	99
60) 2-Nitropropane	7.339	41	68915	89.83	ug/L	96
61) 2-Chloroethylvinyl Ether	7.492	63	47061	51.11	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	208539	49.33	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	137014	46.51	ug/L	98
65) Toluene	8.028	91	513488	49.67	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	191467	49.01	ug/L	96
67) Ethyl Methacrylate	8.510	69	178329	49.19	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	111217	48.27	ug/L	98
71) Tetrachloroethene	8.674	164	106212	50.02	ug/L	97
72) 2-Hexanone	8.869	43	105092	49.27	ug/L	99
73) 1,3-Dichloropropane	8.717	76	192477	47.88	ug/L	99
74) Dibromochloromethane	8.967	129	128306	49.09	ug/L	98
75) N-Butyl Acetate	9.058	43	235811	48.70	ug/L	99
76) 1,2-Dibromoethane	9.064	107	113392	48.34	ug/L	99
77) Chlorobenzene	9.613	112	346448	49.35	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	127354	49.99	ug/L	99
79) Ethylbenzene	9.753	106	183467	49.78	ug/L	98
80) (m+p)Xylene	9.875	106	456599	98.92	ug/L	99
81) o-Xylene	10.253	106	222393	48.68	ug/L	97
82) Styrene	10.272	104	390383	49.45	ug/L	95
83) Bromoform	10.418	173	85284	49.29	ug/L	100
84) Isopropylbenzene	10.613	105	588187	49.81	ug/L	100
85) Cyclohexanone	10.662	55	509044	968.88	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.936	53	47025	55.49	ug/L	98
88) 1,1,2,2-Tetrachloroethane	10.887	83	160244	49.03	ug/L	99
89) Bromobenzene	10.851	156	151073	49.37	ug/L	100
90) 1,2,3-Trichloropropane	10.906	110	49016	47.07	ug/L	98
91) n-Propylbenzene	10.985	91	688156	51.32	ug/L	100
92) 2-Chlorotoluene	11.040	91	422016	52.21	ug/L	99
93) 4-Chlorotoluene	11.137	91	481594	49.83	ug/L	98
94) 1,3,5-Trimethylbenzene	11.149	105	512031	52.19	ug/L	99
95) tert-Butylbenzene	11.424	119	437298	51.00	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	513893	51.69	ug/L	98
97) sec-Butylbenzene	11.613	105	648562	51.55	ug/L	100
98) p-Isopropyltoluene	11.741	119	572966	52.97	ug/L	99
99) 1,3-Dclbenz	11.686	146	299995	50.67	ug/L	98
100) 1,4-Dclbenz	11.759	146	300763	49.53	ug/L	97
101) n-Butylbenzene	12.082	91	537975	54.35	ug/L	99
102) 1,2-Dclbenz	12.070	146	290734	50.57	ug/L	100
103) 1,2-Dibromo-3-chloropr...	12.704	157	36874	49.08	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	236522	49.84	ug/L	99
105) 1,2,4-Tcbenzene	13.368	180	226822	51.14	ug/L	99
106) Hexachlorobt	13.515	225	127847	54.00	ug/L	99
107) Naphthalen	13.557	128	547679	50.93	ug/L	99
108) 1,2,3-Tclbenzene	13.746	180	209867	50.20	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	287947	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	479951	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	424833	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	218758	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.225	113	141452	49.64	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.28%			
48) surr1,1,2-dichloroetha...	5.767	65	193466	49.54	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.08%			
65) SURR3,Toluene-d8	8.291	98	624876	49.11	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.22%			
70) SURR2,BFB	10.858	95	237241	48.19	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	96.38%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	134291	38.34	ppb		98
3) Chloromethane	1.305	50	190453	43.50	ppb		99
4) Vinyl Chloride	1.384	62	199400	46.76	ppb		99
5) Bromomethane	1.609	94	142716	45.39	ppb		97
6) Chloroethane	1.689	64	124204	46.65	ppb		97
7) Freon 21	1.835	67	285350	51.83	ppb		98
8) Trichlorofluoromethane	1.884	101	213052	51.84	ppb		96
9) Diethyl Ether	2.115	59	136922	47.87	ppb		98
10) Freon 123a	2.121	67	191670	55.12	ppb		99
11) Freon 123	2.170	83	210567	52.33	ppb		99
12) Acrolein	2.213	56	54829	64.41	ppb		94
13) 1,1-Diclcethene	2.304	96	133150	45.02	ppb		99
14) Freon 113	2.310	101	130157	46.57	ppb		95
15) Acetone	2.347	43	85120	48.48	ppb		99
16) 2-Propanol	2.475	45	333226	989.18	ppb		100
17) Iodomethane	2.432	142	126267	36.58	ppb		96
18) Carbon Disulfide	2.499	76	396813	46.00	ppb		98
19) Acetonitrile	2.591	40	71030	236.95	ppb		100
20) Allyl Chloride	2.634	76	73512	46.67	ppb		92
21) Methyl Acetate	2.658	43	157488	50.23	ppb		99
22) Methylene Chloride	2.749	84	150486	48.24	ppb		99
23) TBA	2.877	59	560668	965.55	ppb		99
24) Acrylonitrile	2.999	53	402143	238.60	ppb		99
25) Methyl-t-Butyl Ether	3.048	73	507837	47.90	ppb		99
26) trans-1,2-Dichloroethene	3.042	96	144824	47.94	ppb		97
28) 1,1-Diclcethane	3.536	63	274458	49.51	ppb		97
29) Vinyl Acetate	3.627	86	38188	43.14	ppb	#	92
30) DIPE	3.664	45	492688	46.67	ppb		97
31) 2-Chloro-1,3-Butadiene	3.658	53	243854	45.48	ppb		94
32) ETBE	4.188	59	513182	48.20	ppb		97
33) 2,2-Dichloropropane	4.365	77	227846	46.22	ppb		98
34) cis-1,2-Dichloroethene	4.371	96	164996	47.97	ppb		95
35) 2-Butanone	4.408	43	103585	46.96	ppb		98
36) Propionitrile	4.493	54	164268	229.34	ppb		95
37) Bromochloromethane	4.761	130	97230	48.85	ppb		96
38) Methacrylonitrile	4.761	67	88251	51.94	ppb		94
39) Tetrahydrofuran	4.853	42	65186	50.65	ppb		86
40) Chloroform	4.944	83	263420	47.20	ppb		98
41) 1,1,1-Trichloroethane	5.243	97	228157	48.30	ppb		98



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	507580	48.84	ppb	98
44) Cyclohexane	5.334	41	144705	46.15	ppb	99
46) Carbontetrachloride	5.523	117	183593	50.96	ppb	96
47) 1,1-Dichloropropene	5.529	75	209652	49.59	ppb	98
49) Benzene	5.846	78	620472	49.49	ppb	100
50) 1,2-Dichloroethane	5.883	62	221444	48.08	ppb	98
51) Iso-Butyl Alcohol	5.859	43	240444	945.52	ppb	97
52) n-Heptane	6.340	43	193642	45.00	ppb	96
53) 1-Butanol	6.822	56	419687	2494.27	ppb	99
54) Trichloroethene	6.797	130	162270	50.47	ppb	96
55) Methylcyclohexane	7.035	55	205143	49.05	ppb	98
56) 1,2-Diclpropane	7.078	63	162105	48.47	ppb	96
57) Dibromomethane	7.218	93	95483	47.82	ppb	98
58) 1,4-Dioxane	7.279	88	64491	976.88	ppb	97
59) Methyl Methacrylate	7.303	69	149451	48.38	ppb	99
60) Bromodichloromethane	7.450	83	202525	48.11	ppb	95
61) 2-Nitropropane	7.724	41	120257	92.50	ppb	98
62) 2-Chloroethylvinyl Ether	7.852	63	38992	50.45	ppb	94
63) cis-1,3-Dichloropropene	7.992	75	263518	49.61	ppb	97
64) 4-Methyl-2-pentanone	8.193	43	188470	46.19	ppb	95
66) Toluene	8.364	91	677037	49.72	ppb	98
67) trans-1,3-Dichloropropene	8.632	75	248645	50.25	ppb	98
68) Ethyl Methacrylate	8.773	69	261322	51.73	ppb	99
69) 1,1,2-Trichloroethane	8.821	97	145623	47.07	ppb	97
72) Tetrachloroethene	8.956	164	111631	47.62	ppb	97
73) 2-Hexanone	9.108	43	146355	46.79	ppb	94
74) 1,3-Dichloropropane	8.992	76	265741	48.68	ppb	98
75) Dibromochloromethane	9.218	129	143505	50.37	ppb	97
76) N-Butyl Acetate	9.266	43	315825	53.65	ppb	96
77) 1,2-Dibromoethane	9.315	107	147070	48.59	ppb	97
78) Chlorobenzene	9.809	112	427179	51.32	ppb	99
79) 3-CBTF	9.827	180	209132	47.12	ppb	95
80) 4-CBTF	9.882	180	186198	45.91	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.894	131	146680	49.58	ppb	95
82) Ethylbenzene	9.931	106	228973	49.83	ppb	98
83) (m+p)Xylene	10.041	106	559632	100.62	ppb	100
84) o-Xylene	10.400	106	276930	49.73	ppb	100
85) Styrene	10.413	104	479273	51.13	ppb	98
87) Bromoform	10.565	173	95178	49.88	ppb	99
88) 2-CBTF	10.644	180	204322	48.23	ppb	94
89) Isopropylbenzene	10.736	105	711427	49.50	ppb	98
90) Cyclohexanone	10.797	55	836747	765.29	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	61025	53.58	ppb	99
92) 1,1,2,2-Tetrachloroethane	10.998	83	207141	47.76	ppb	96
93) Bromobenzene	10.979	156	172547	49.02	ppb	96
94) 1,2,3-Trichloropropane	11.022	110	69365	49.23	ppb	94
95) n-Propylbenzene	11.095	91	844300	50.52	ppb	100
96) 2-Chlorotoluene	11.156	91	532215	51.37	ppb	99
97) 3-Chlorotoluene	11.211	91	537133	49.15	ppb	97
98) 4-Chlorotoluene	11.248	91	589390	49.23	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	616952	51.32	ppb	98
100) tert-Butylbenzene	11.516	119	520317	50.14	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	626900	52.07	ppb	98
102) 3,4-DCBTF	11.620	214	161549	48.02	ppb	98
103) sec-Butylbenzene	11.699	105	776457	50.85	ppb	99
104) p-Isopropyltoluene	11.821	119	664383	51.70	ppb	100



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	336727	50.32	ppb	97
106) 1,4-Dclbenz	11.857	146	346237	49.31	ppb	99
107) 2,4-DCBTF	11.912	214	153233	47.76	ppb	97
108) 2,5-DCBTF	11.949	214	162889	47.48	ppb	98
109) n-Butylbenzene	12.156	91	633806	52.88	ppb	99
110) 1,2-Dclbenz	12.156	146	339670	50.86	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.784	157	53218	47.40	ppb	93
112) Trielution Dichlorotol...	12.900	125	973605	148.21	ppb	99
113) 1,3,5 Trichlorobenzene	12.955	180	261939	50.38	ppb	96
114) Coelution Dichlorotoluene	13.229	125	720830	103.46	ppb	100
115) 1,2,4-Tcbenzene	13.436	180	255427	52.62	ppb	96
116) Hexachlorobt	13.577	225	110049	48.84	ppb	98
117) Naphthalen	13.625	128	749449	55.96	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	255017	54.08	ppb	98
119) 2,4,5-Trichlorotolene	14.400	159	167006	53.91	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	158730	54.85	ppb	97

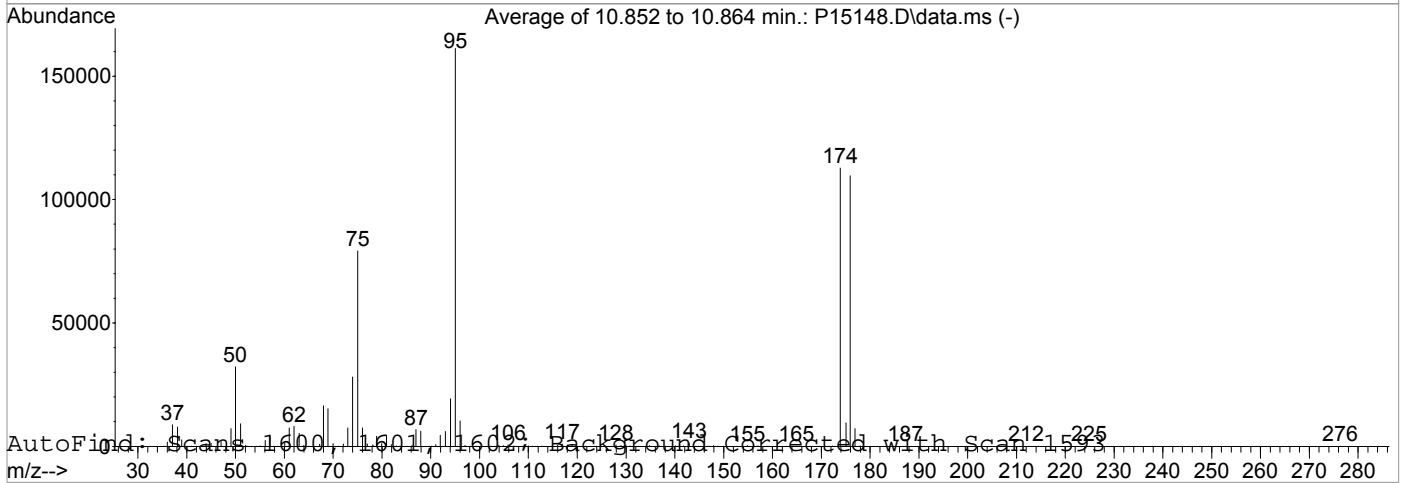
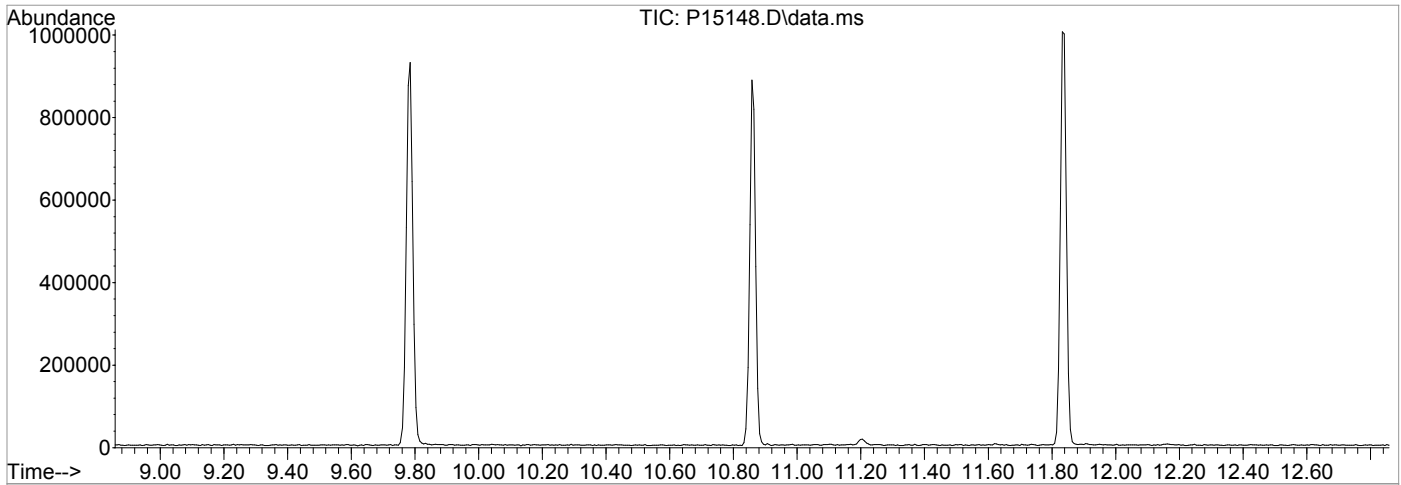
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15148.D  
Acq On : 29 Dec 2017 4:24 pm  
Operator : K.Ruest  
Sample : TUNE  
Misc :  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Title : MS#12 - 8260B WATERS 10mL Purge  
Last Update : Fri Dec 29 09:19:07 2017



AutoFind: Scans 1600, 1601, 1602 Background corrected with Scan 1603  
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	32261	PASS
75	95	30	60	49.1	79149	PASS
95	95	100	100	100.0	161277	PASS
96	95	5	9	6.4	10343	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.9	112739	PASS
175	174	5	9	8.5	9553	PASS
176	174	95	101	97.2	109600	PASS
177	176	5	9	6.5	7155	PASS

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15149.D  
 Acq On : 29 Dec 2017 5:01 pm  
 Operator : K.Ruest  
 Sample : IBLK  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:24:56 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	312401	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	516664	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	453641	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	224311	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	153044	49.89	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.78%	
48) surr1,1,2-dichloroetha...	5.761	65	209116	49.74	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.48%	
65) SURR3,Toluene-d8	8.291	98	677259	49.44	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.88%	
70) SURR2,BFB	10.858	95	255019	48.12	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.24%	

Target Compounds Qvalue

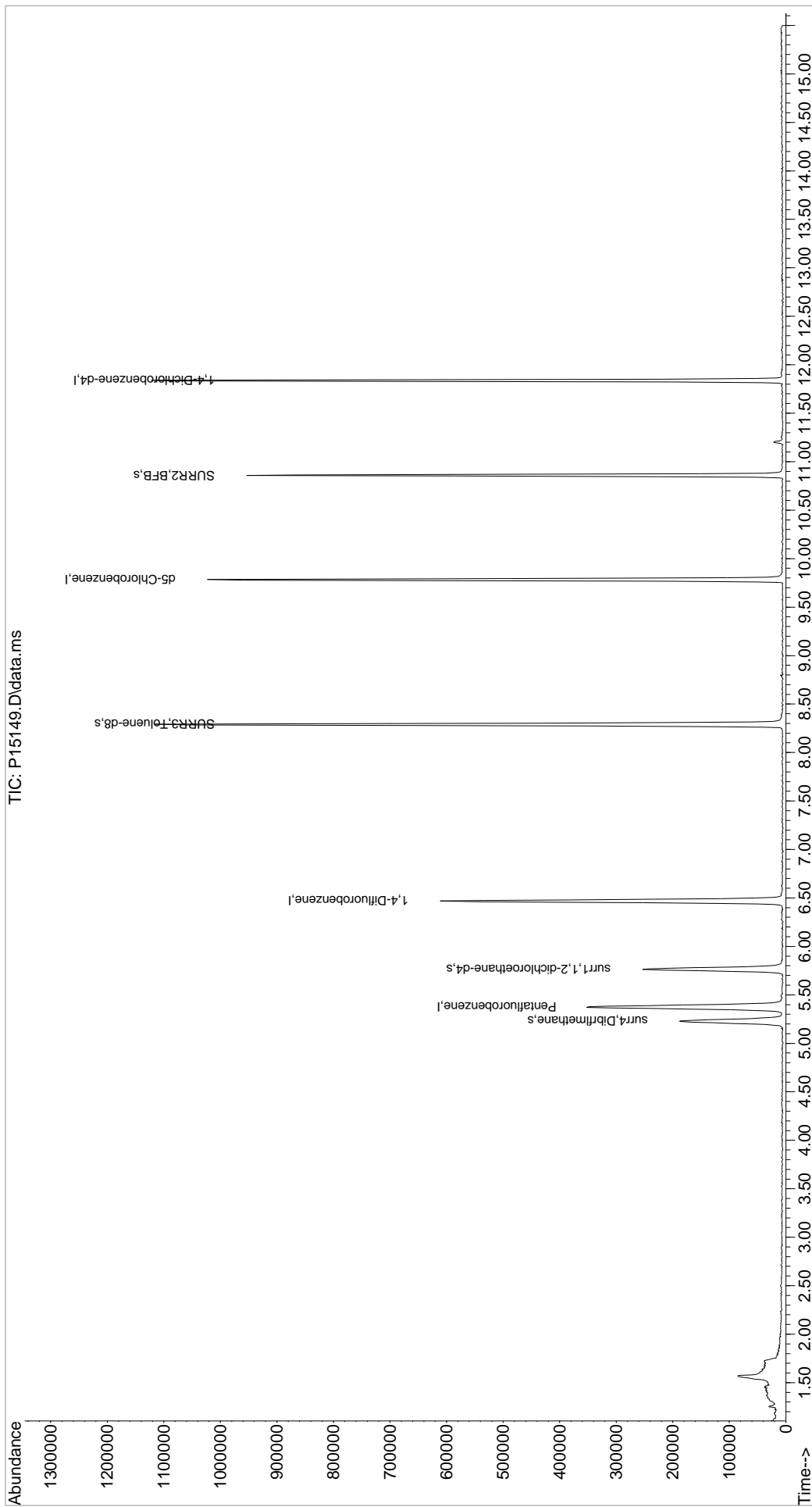
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
Data File : P15149.D  
Acq On : 29 Dec 2017 5:01 pm  
Operator : K.Ruest  
Sample : IBLK  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

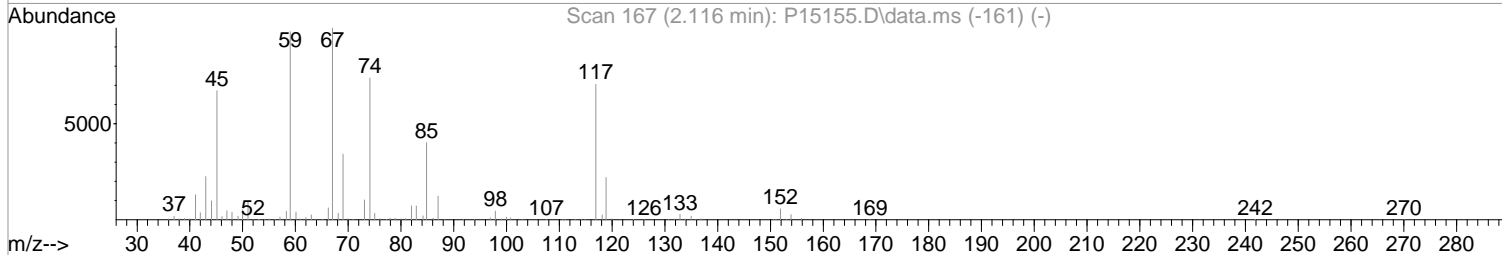
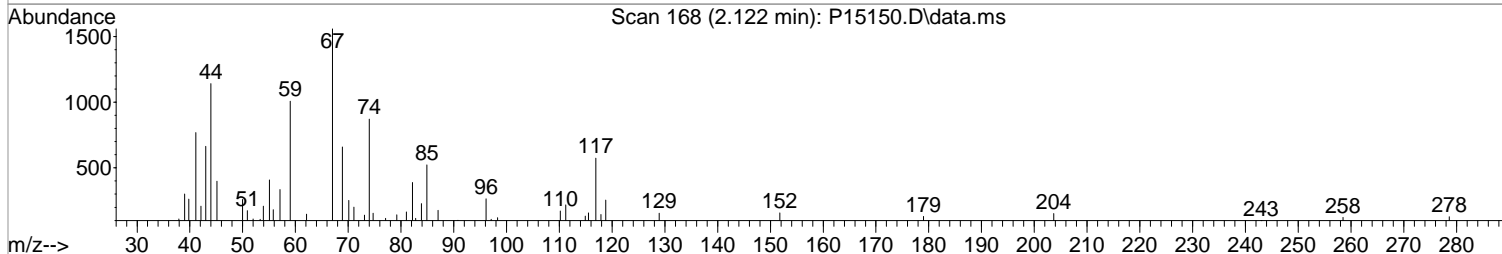
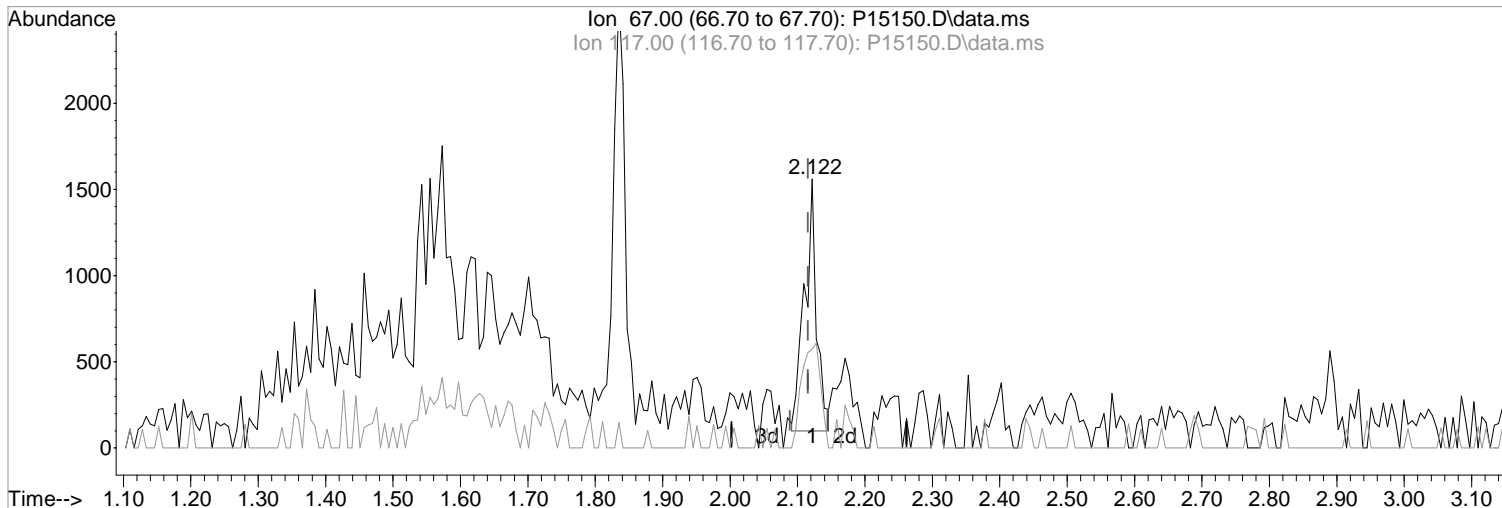
Quant Time: Jan 02 15:24:56 2018  
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(10) Freon 123a  
2.122min (+0.006) 0.54 ppb m  
response 1826

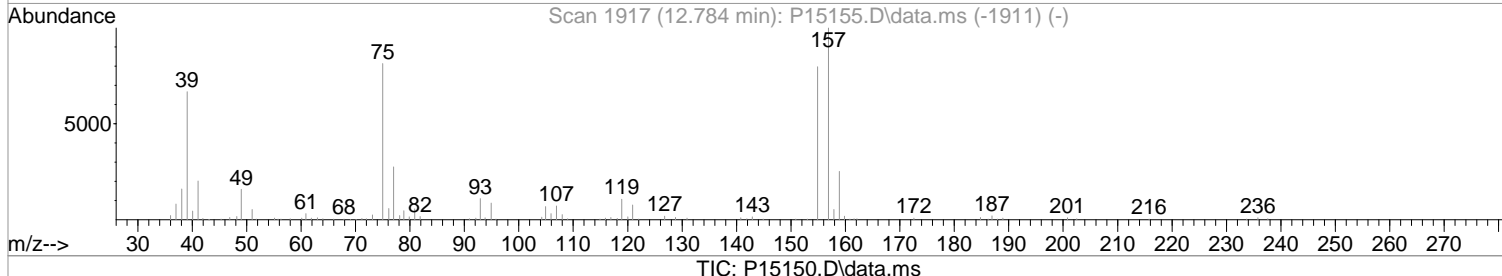
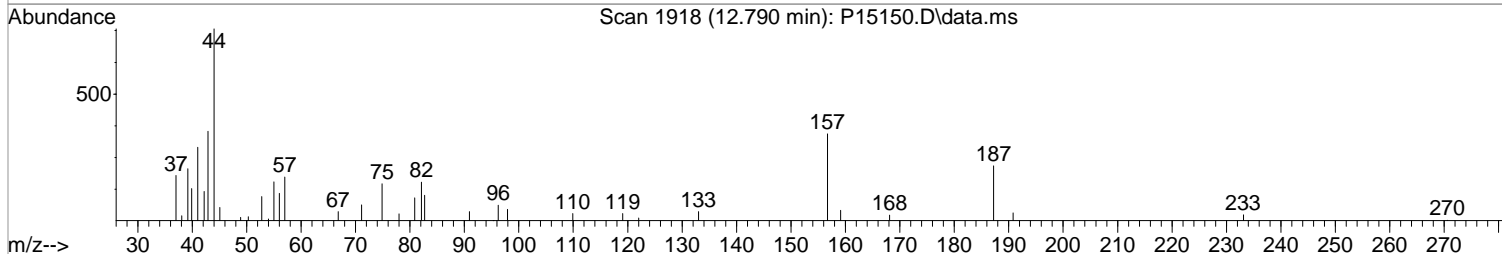
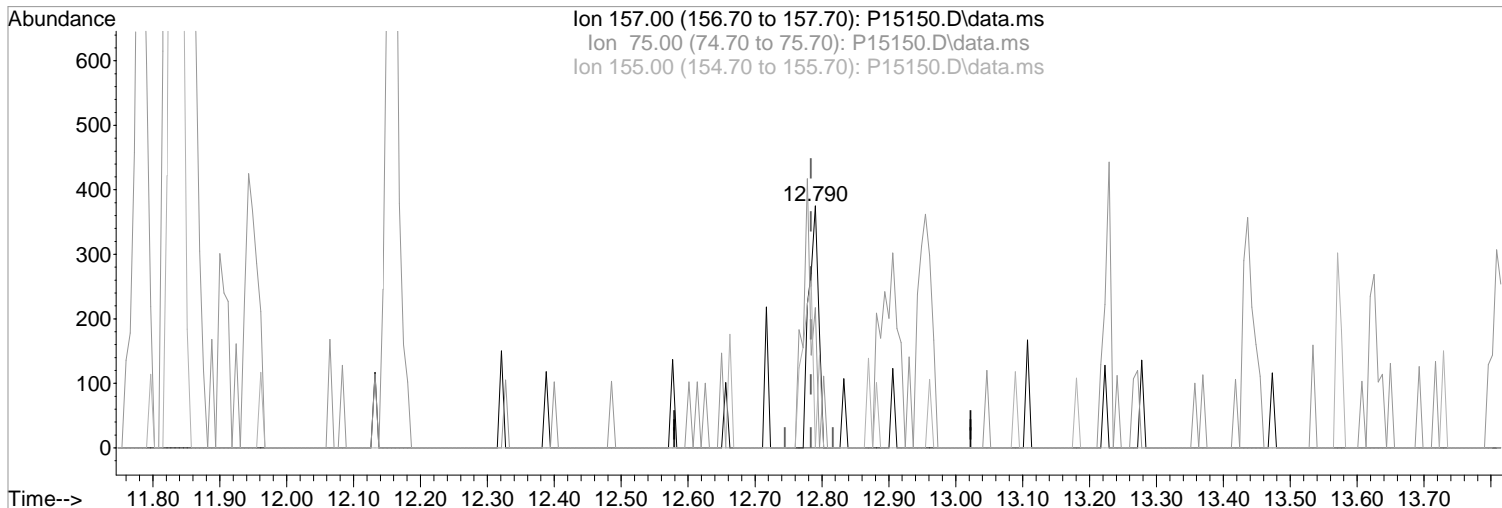
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
67.00	100	100
117.00	70.30	36.73#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(111) 1,2-Dibromo-3-chloropropane (P)

12.790min (+0.006) 0.39 ppb m  
response 383

Ion	Exp%	Act%
157.00	100	100
75.00	81.40	57.87#
155.00	79.70	0.00#
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

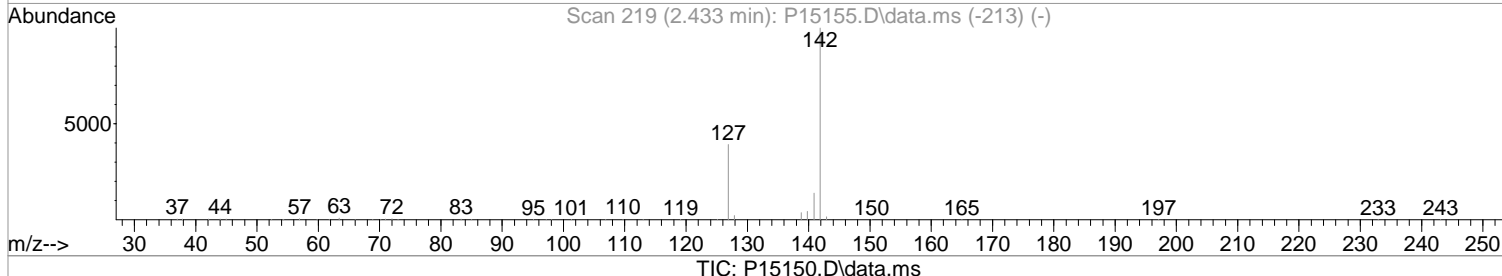
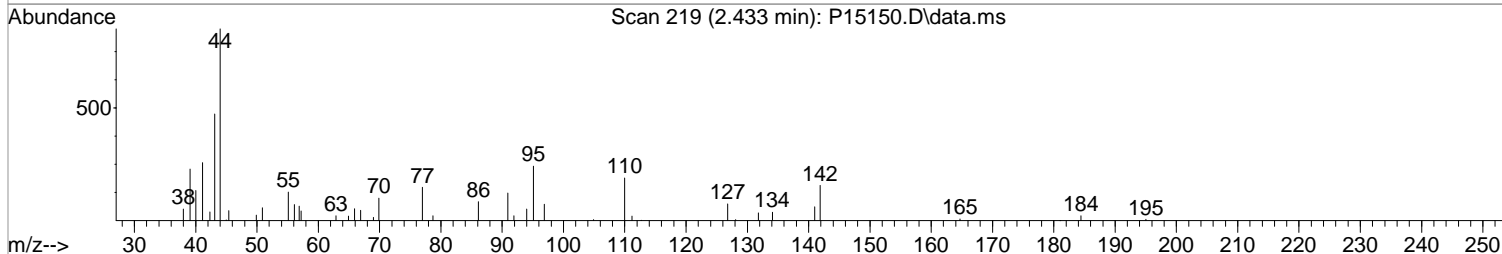
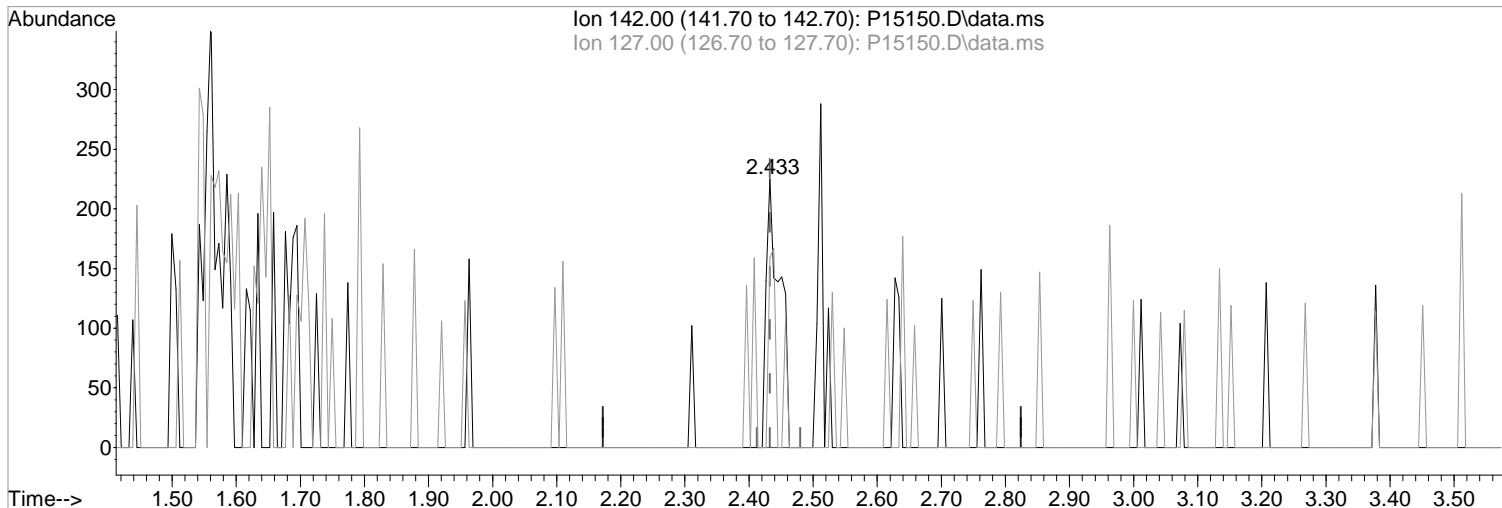
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(17) Iodomethane  
2.433min (+0.000) 0.13 ppb m  
response 336

Manual Integration:  
After  
Poor integration.

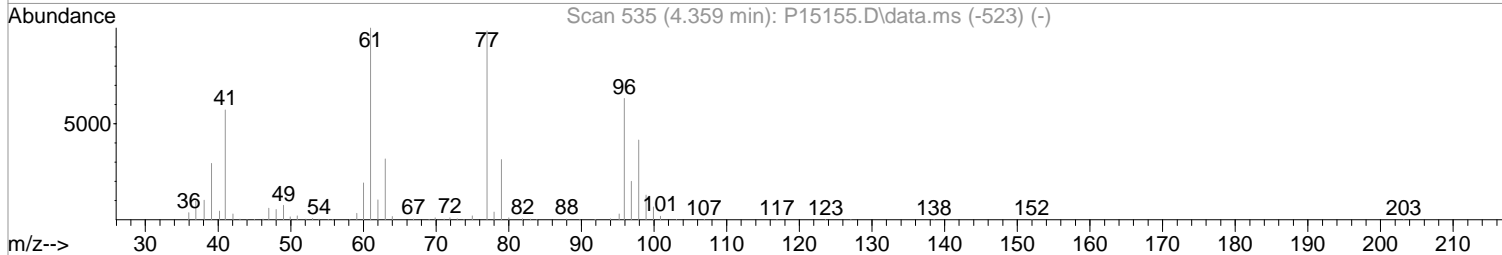
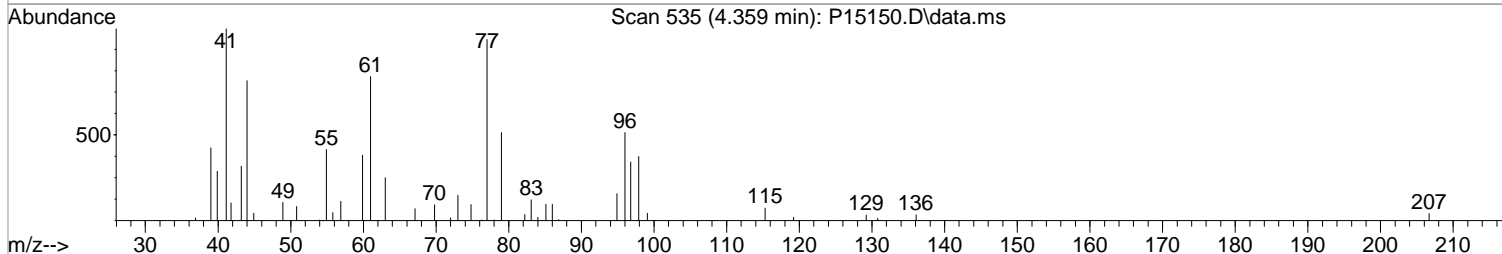
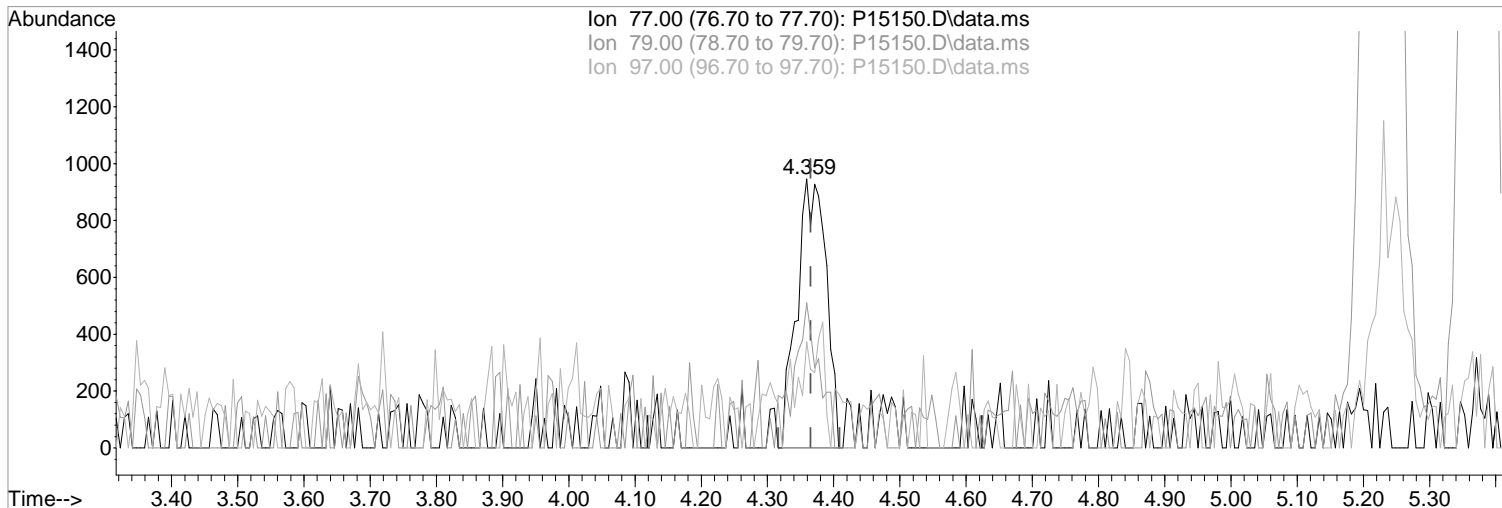
Ion	Exp%	Act%
142.00	100	100
127.00	39.10	70.67#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15150.D\data.ms

(33) 2,2-Dichloropropane  
4.359min (-0.006) 0.60 ppb m  
response 2888

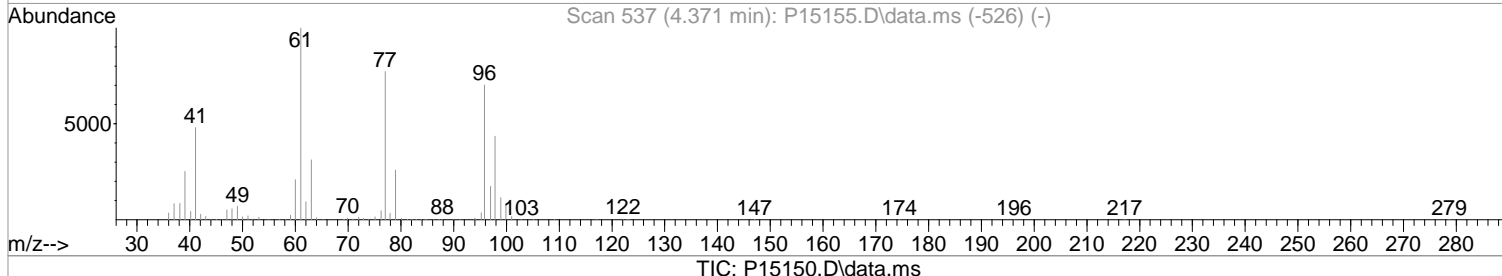
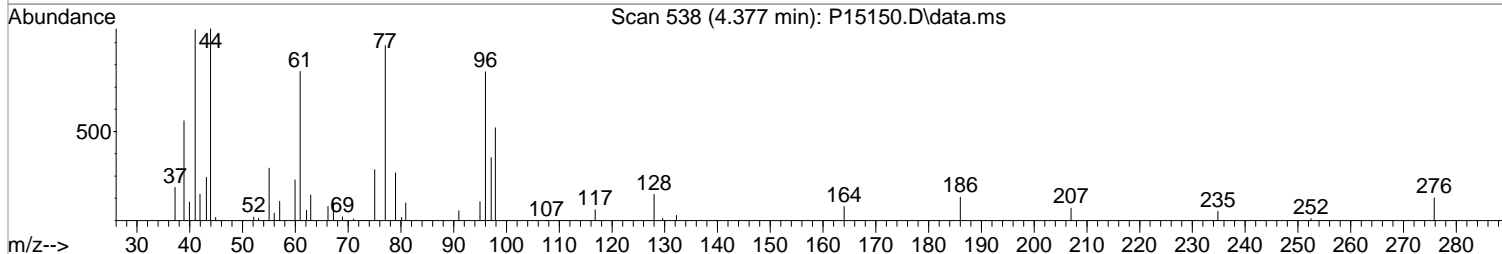
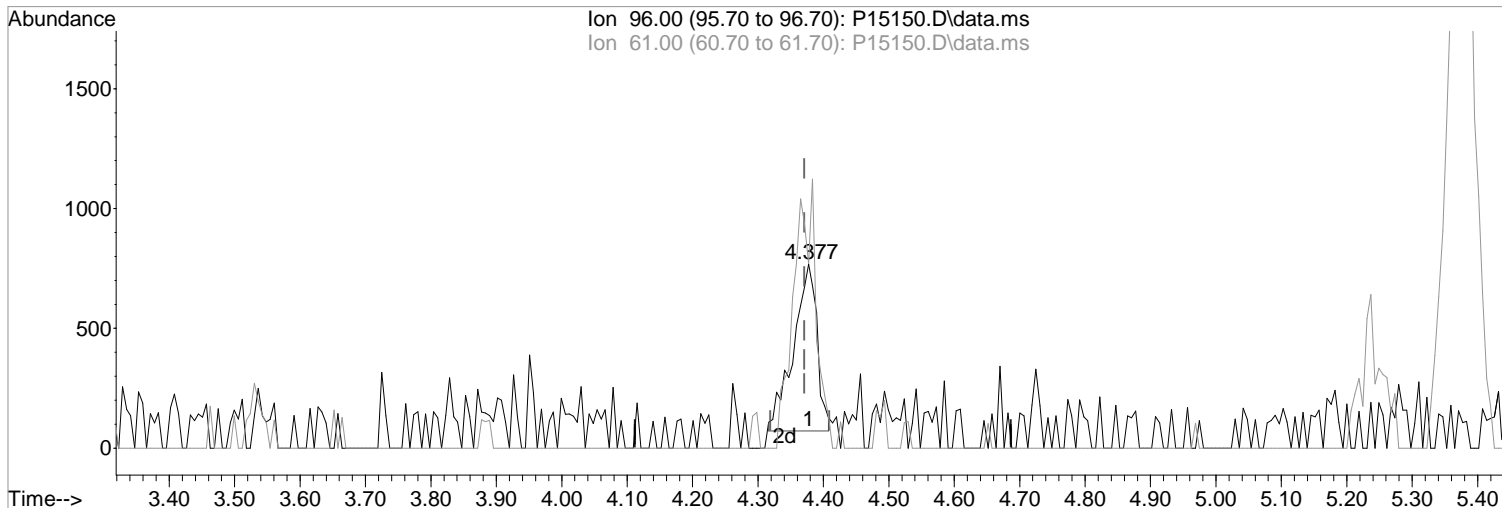
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
77.00	100	100
79.00	32.10	53.91#
97.00	20.60	39.43
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.49 ppb m  
response 1739

Ion	Exp%	Act%
96.00	100	100
61.00	142.80	100.26#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

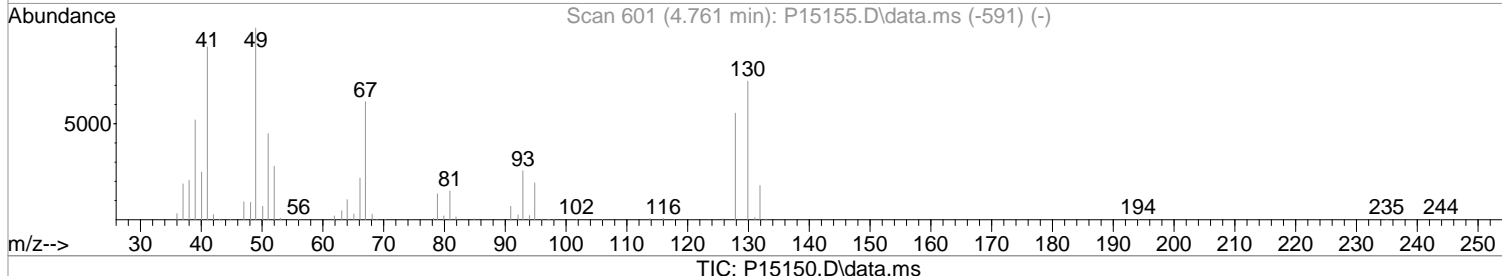
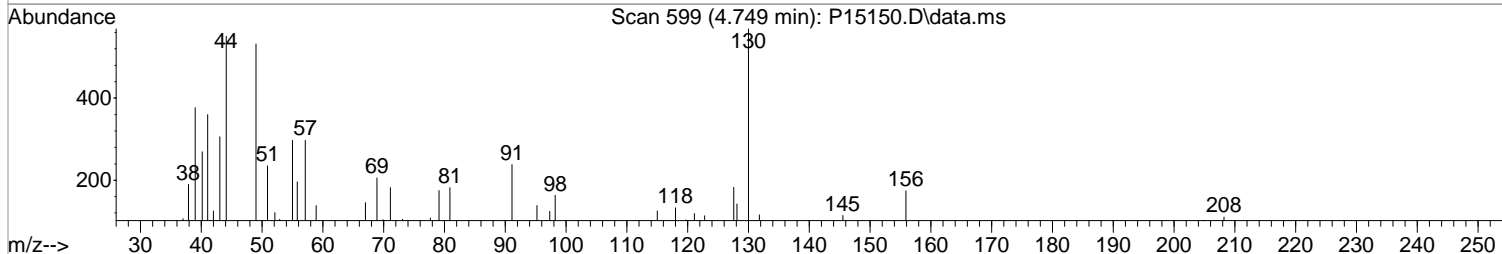
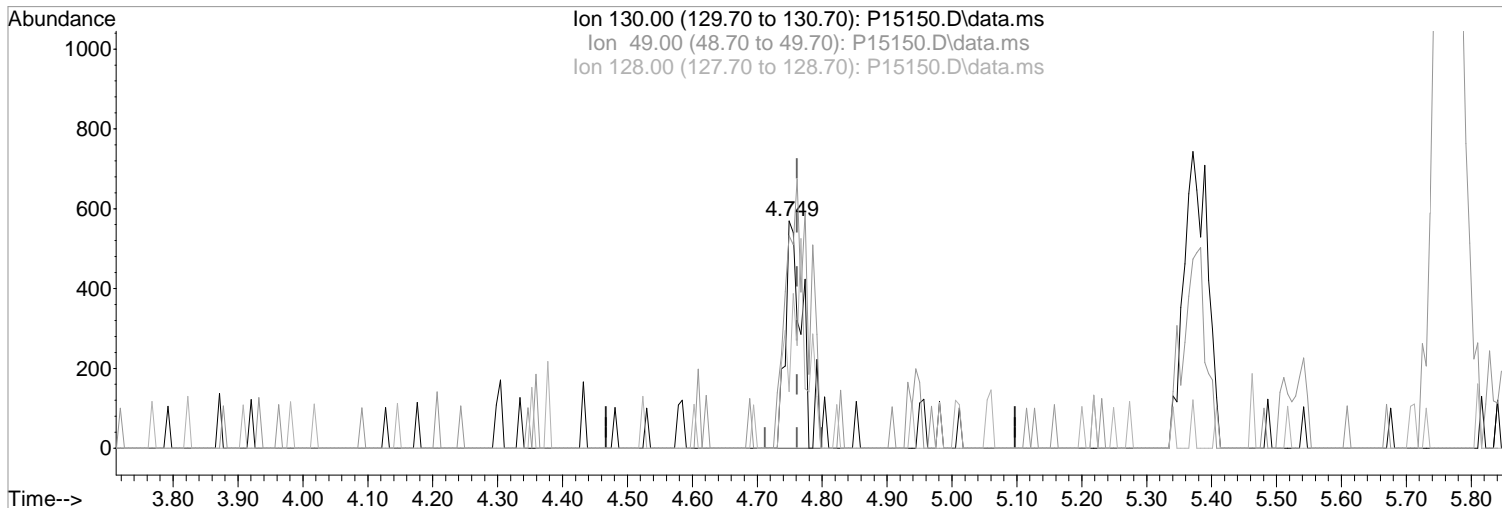
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane

4.749min (-0.012) 0.52 ppb m

response 1011

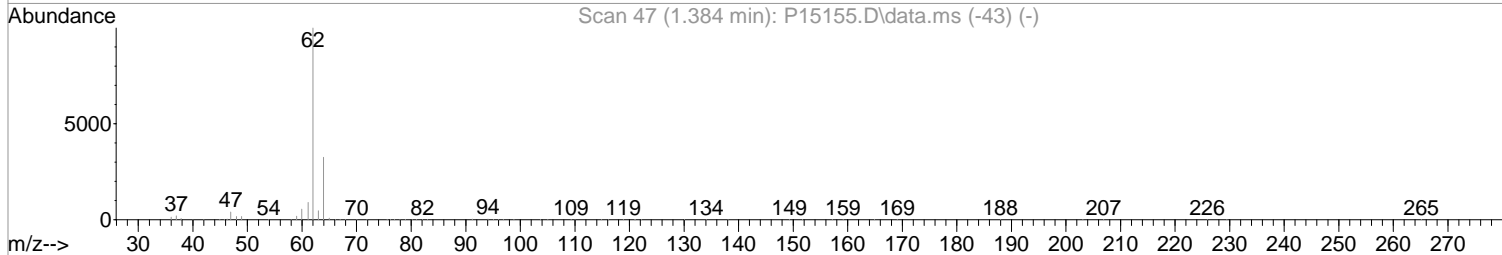
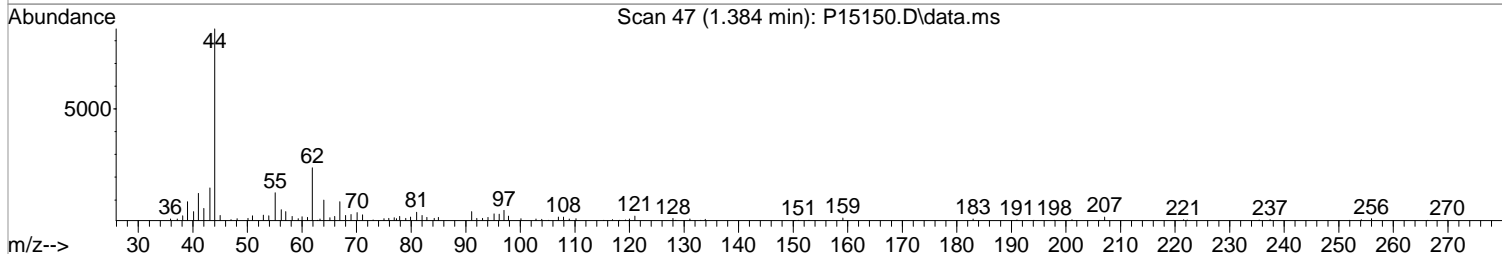
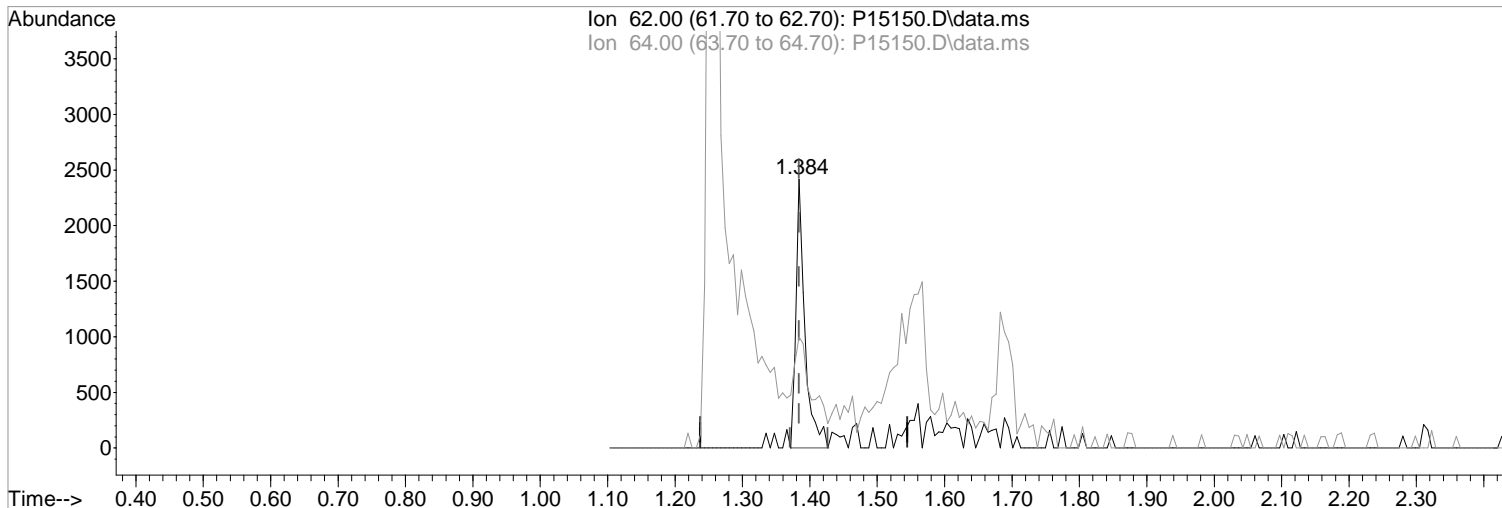
Ion	Exp%	Act%
130.00	100	100
49.00	139.00	93.50#
128.00	77.10	24.96#
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(4) Vinyl Chloride (P)

1.384min (+0.000) 0.53 ppb m  
response 2220

Ion	Exp%	Act%
62.00	100	100
64.00	32.80	41.30
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

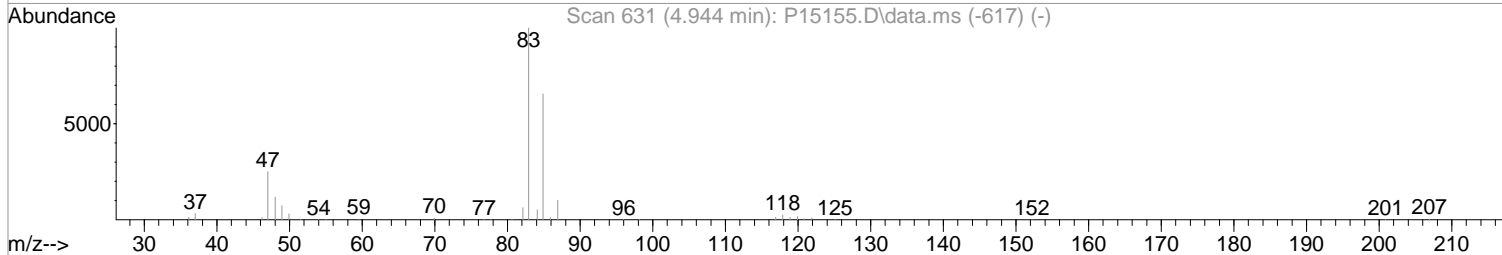
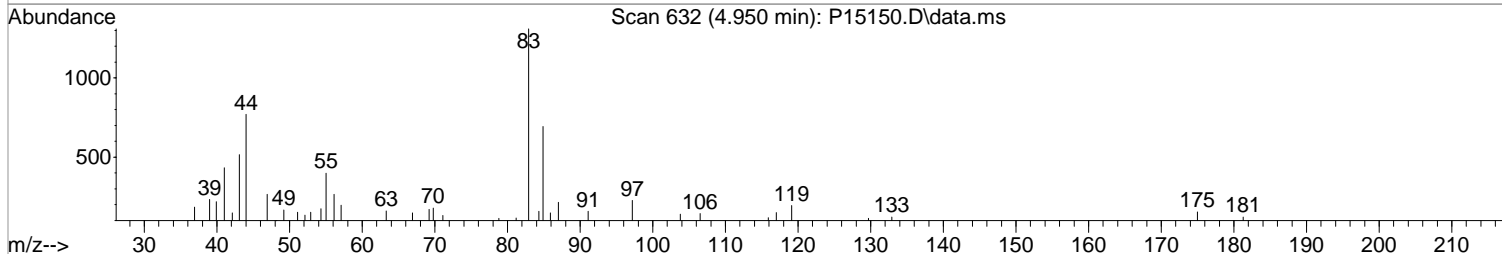
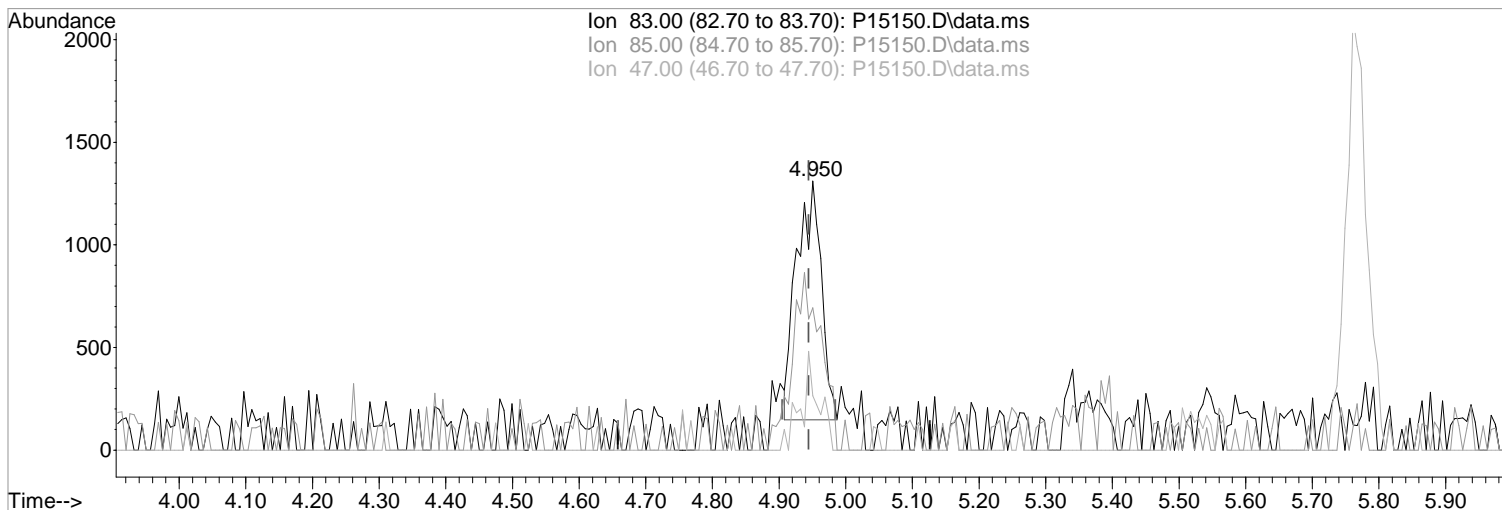
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15150.D\data.ms

(40) Chloroform (P)

4.950min (+0.006) 0.51 ppb m

response 2984

Ion	Exp%	Act%
83.00	100	100
85.00	65.60	52.86
47.00	24.90	20.21
0.00	0.00	0.00

Manual Integration:

After

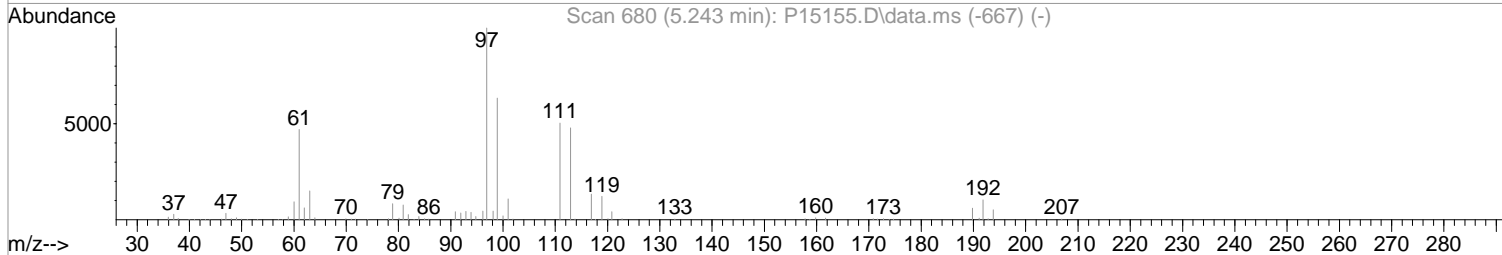
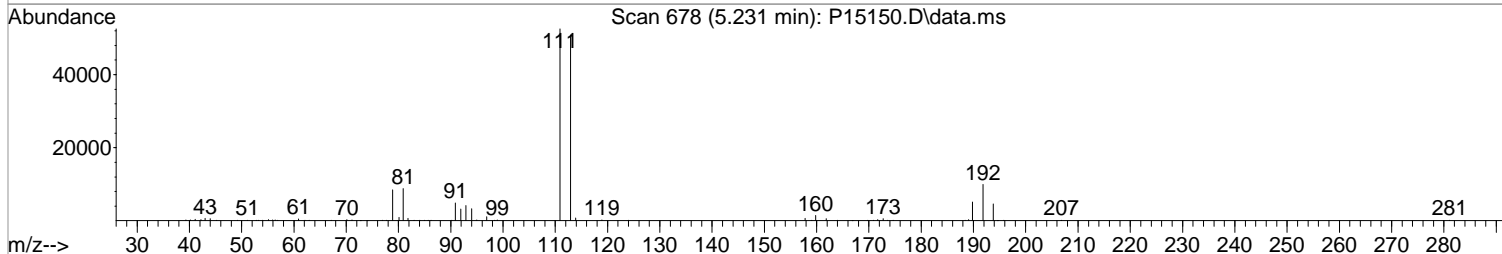
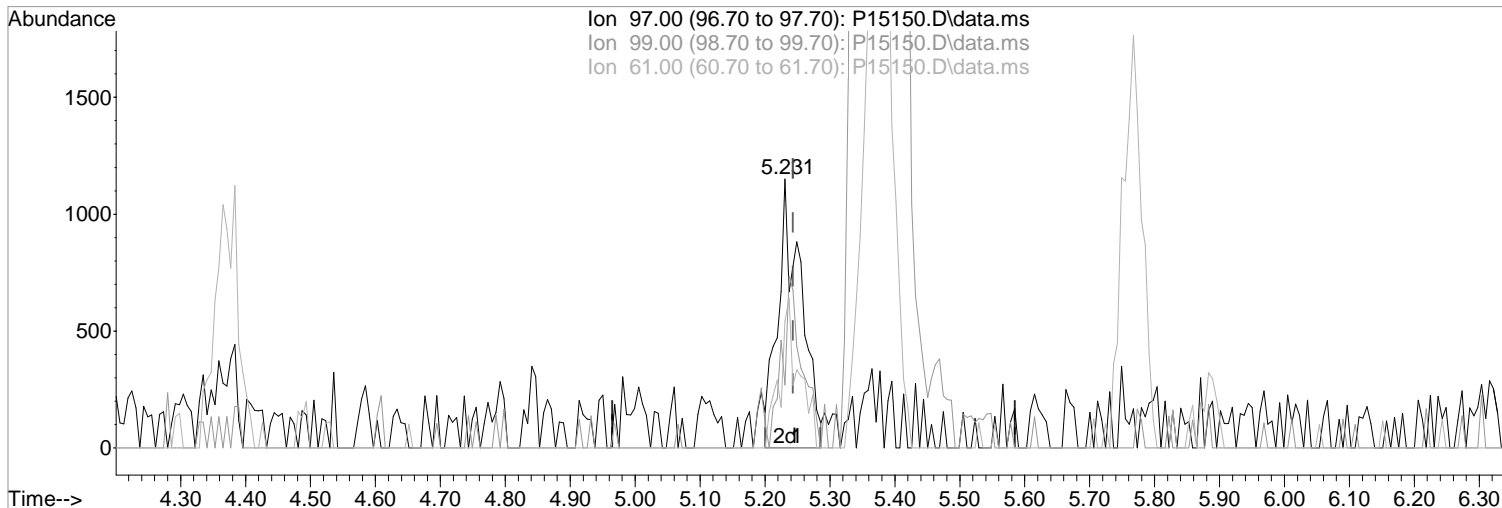
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(41) 1,1,1-Trichloroethane (P)

5.231min (-0.012) 0.61 ppb m  
response 2844

Ion	Exp%	Act%
97.00	100	100
99.00	63.10	23.48#
61.00	46.90	47.13
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

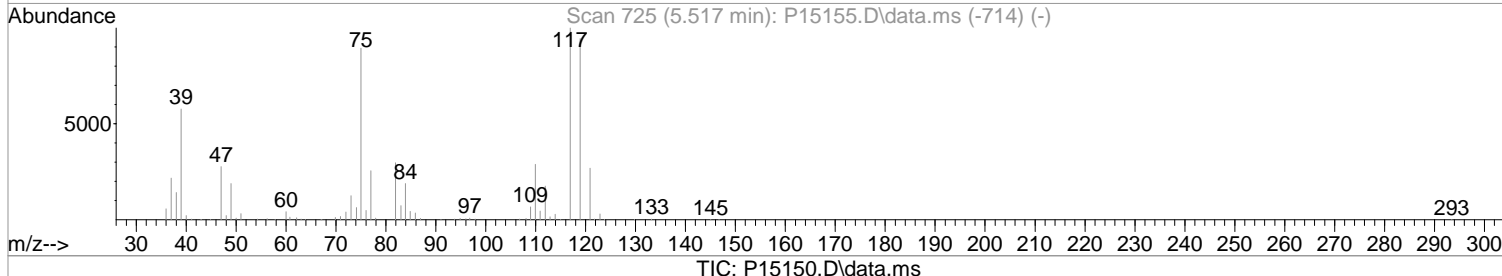
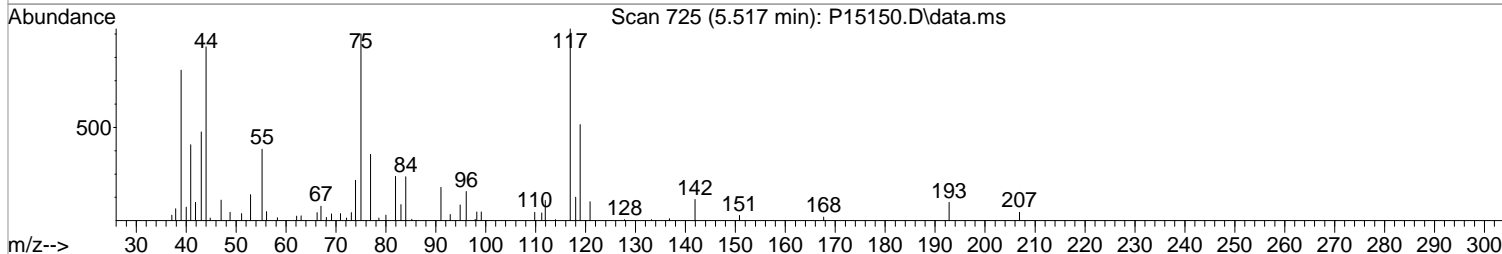
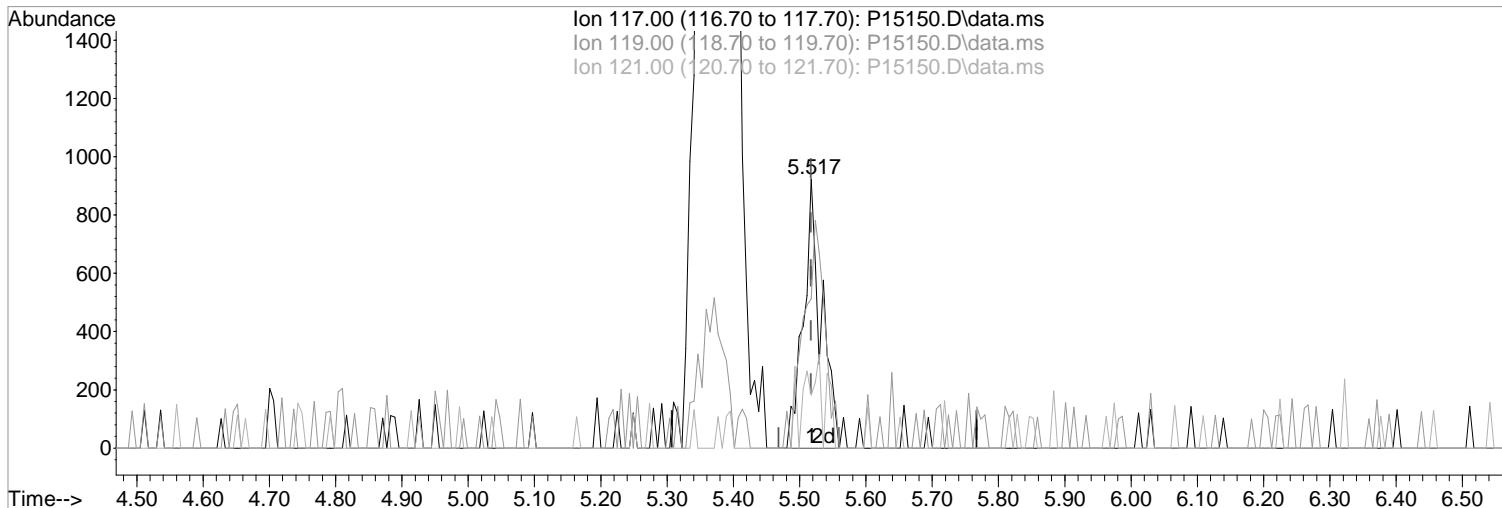
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(46) Carbontetrachloride (P)  
5.517min (+0.000) 0.49 ppb m  
response 1723

Manual Integration:  
After  
Poor integration.

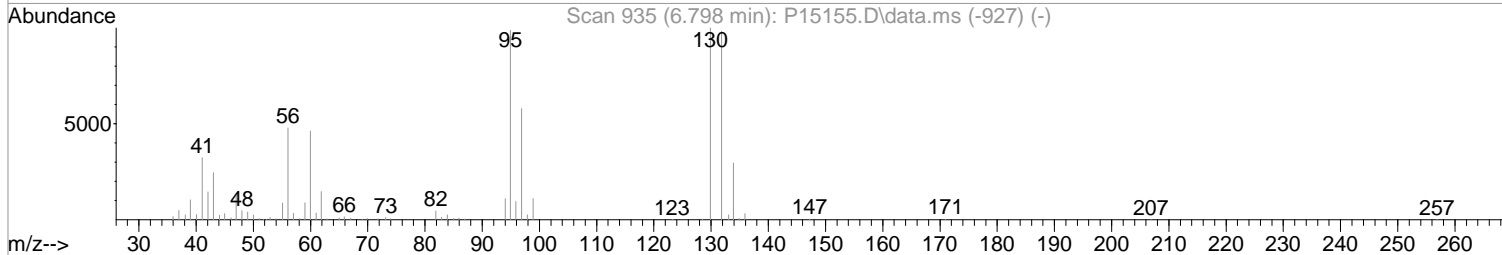
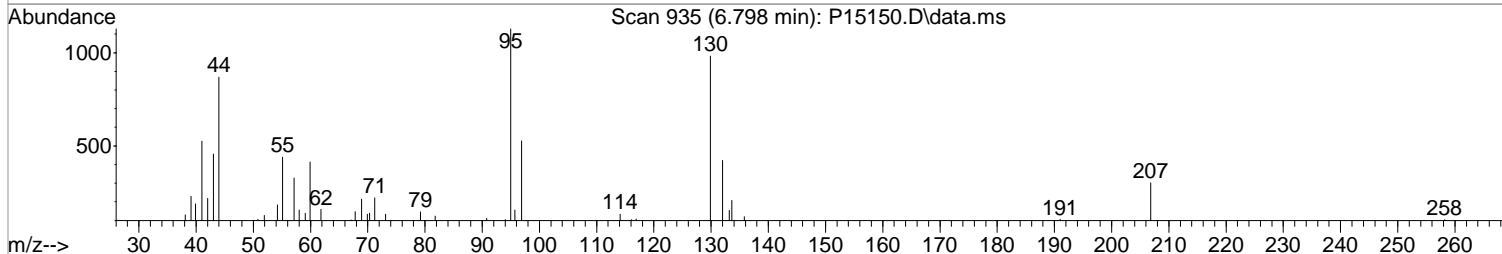
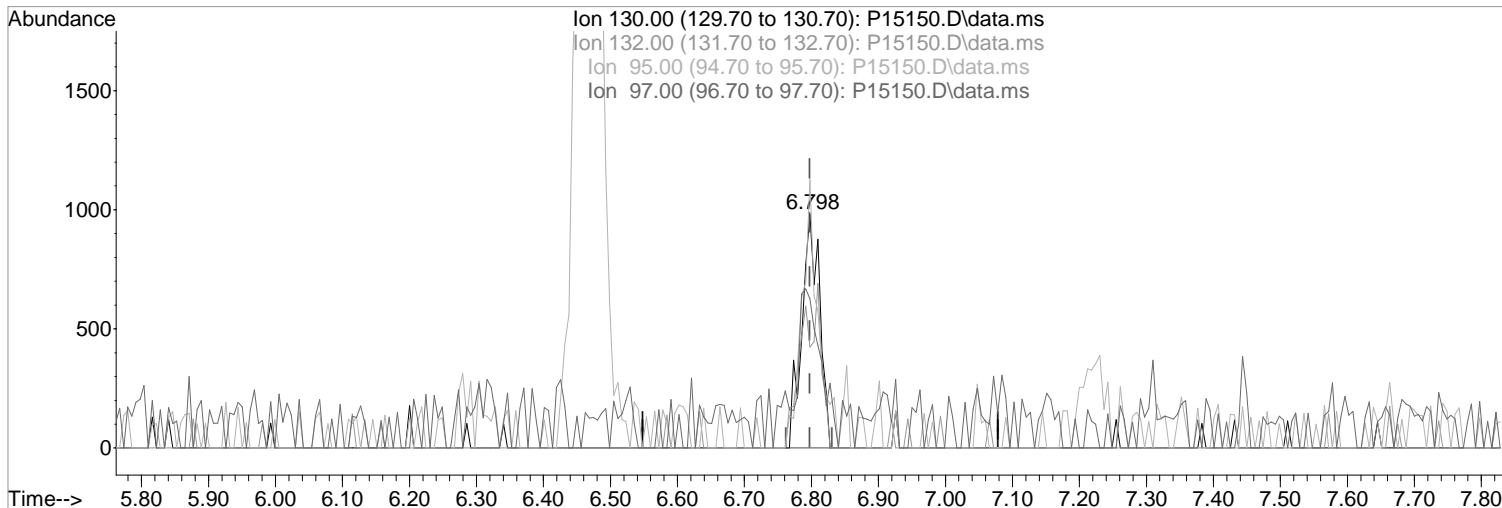
Ion	Exp%	Act%
117.00	100	100
119.00	94.40	55.47#
121.00	26.80	19.72
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(54) Trichloroethene (P)  
6.798min (+0.000) 0.59 ppb m  
response 1823

Manual Integration:

After

Poor integration.

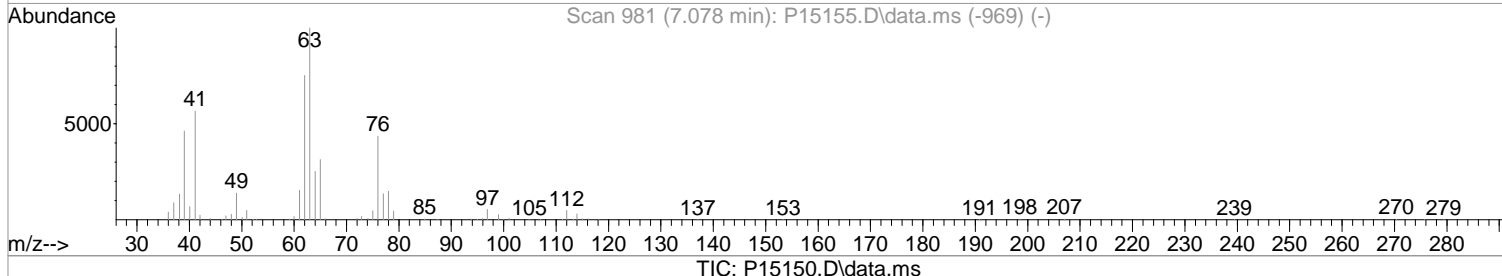
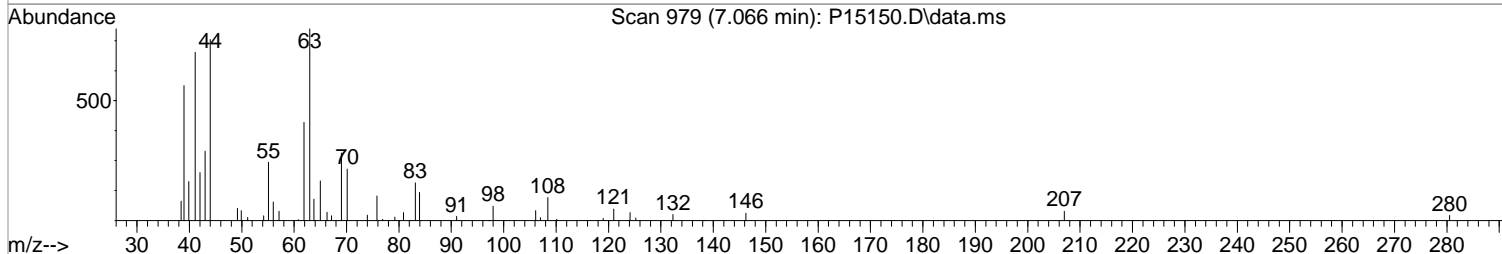
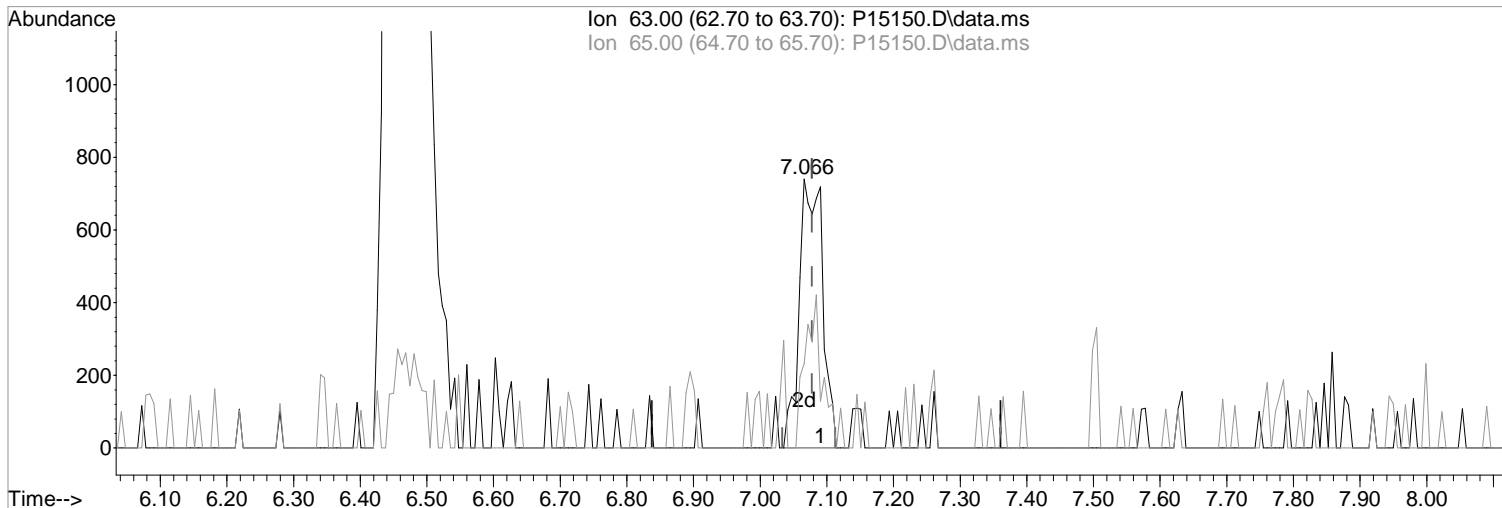
01/02/18

Ion	Exp%	Act%
130.00	100	100
132.00	98.30	43.03#
95.00	98.70	114.85
97.00	58.30	53.61

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(56) 1,2-Dicloropropane (P)  
7.066min (-0.012) 0.55 ppb m  
response 1790

Manual Integration:  
After  
Poor integration.

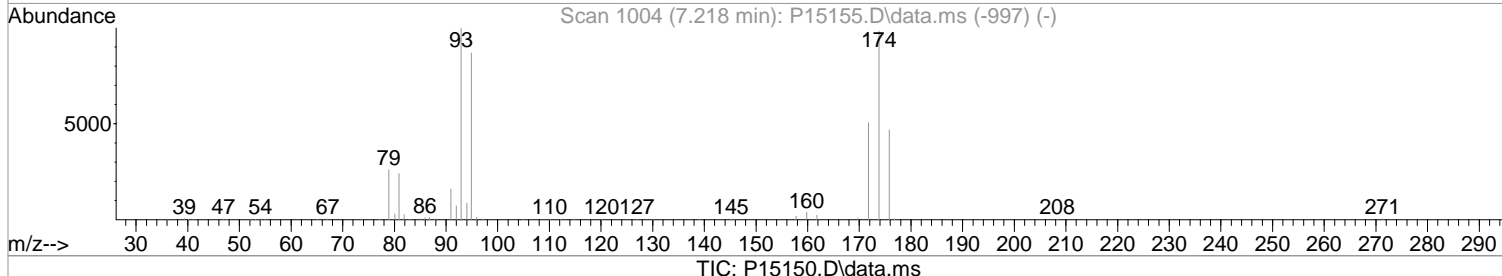
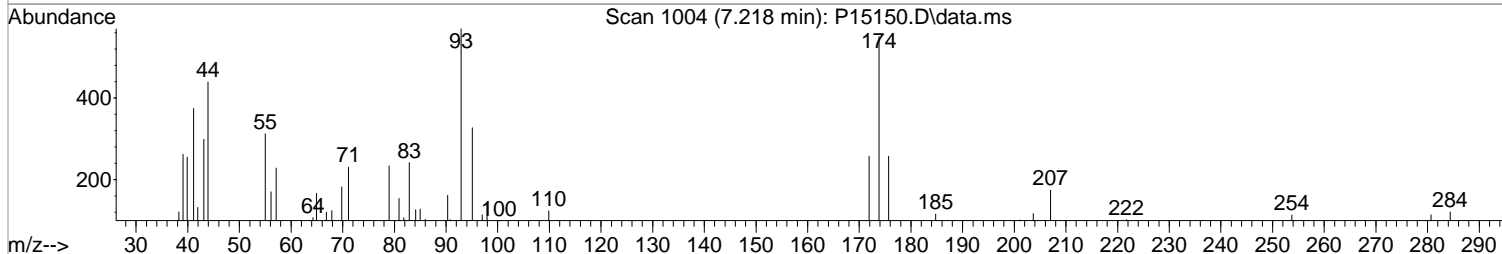
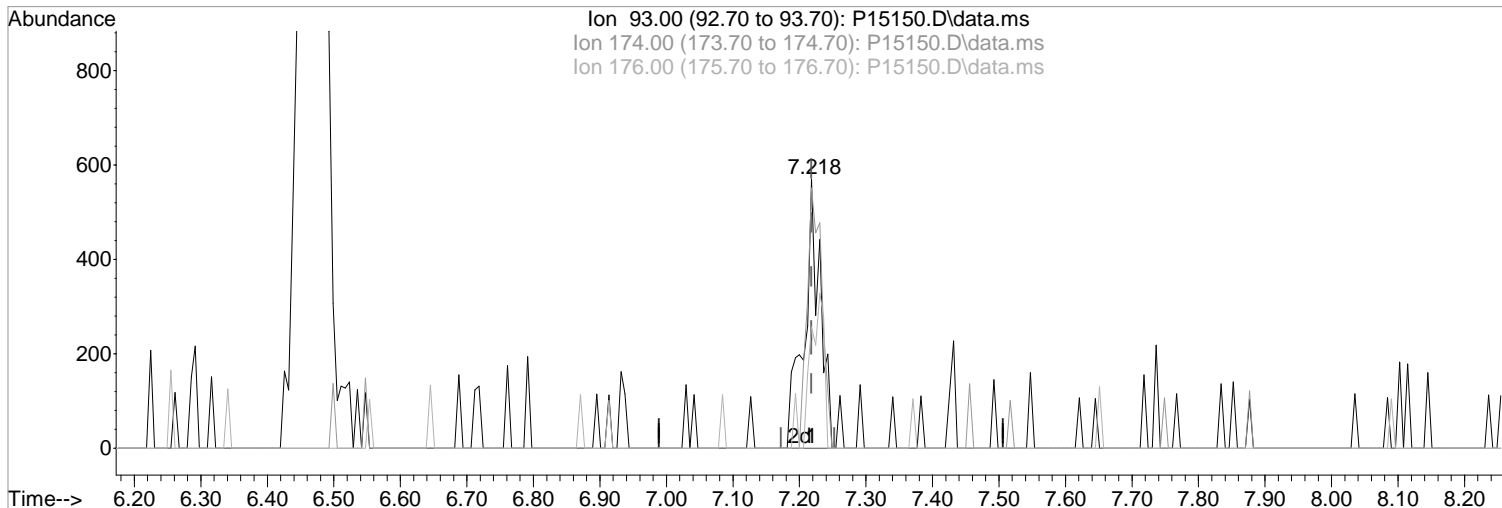
Ion	Exp%	Act%
63.00	100	100
65.00	31.70	31.35
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(57) Dibromomethane

7.218min (+0.000) 0.50 ppb m  
response 969

Ion	Exp%	Act%
93.00	100	100
174.00	98.30	96.67
176.00	46.90	45.09
0.00	0.00	0.00

Manual Integration:

After

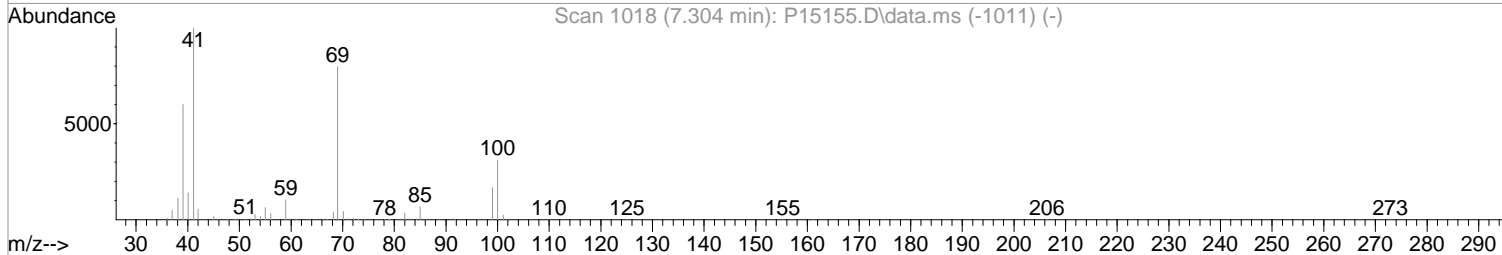
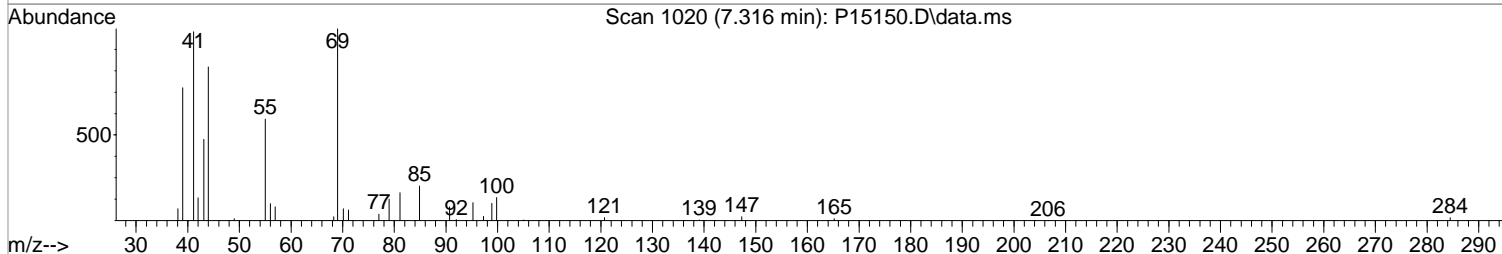
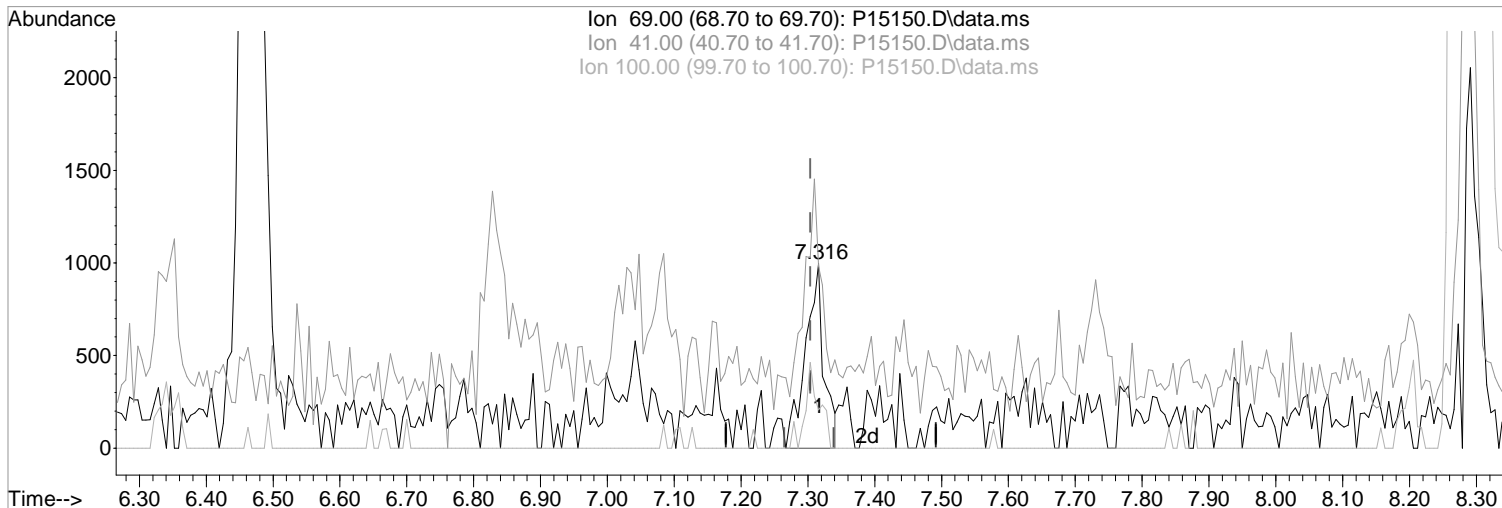
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(59) Methyl Methacrylate

7.316min (+0.012) 0.64 ppb m

response 1906

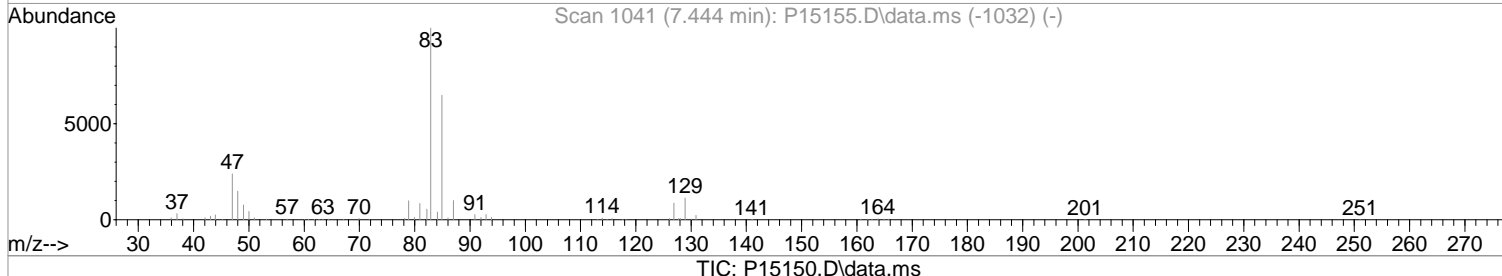
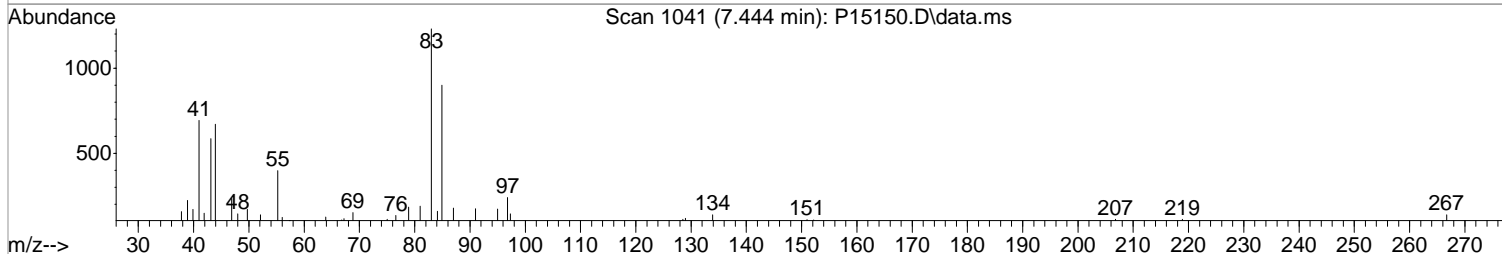
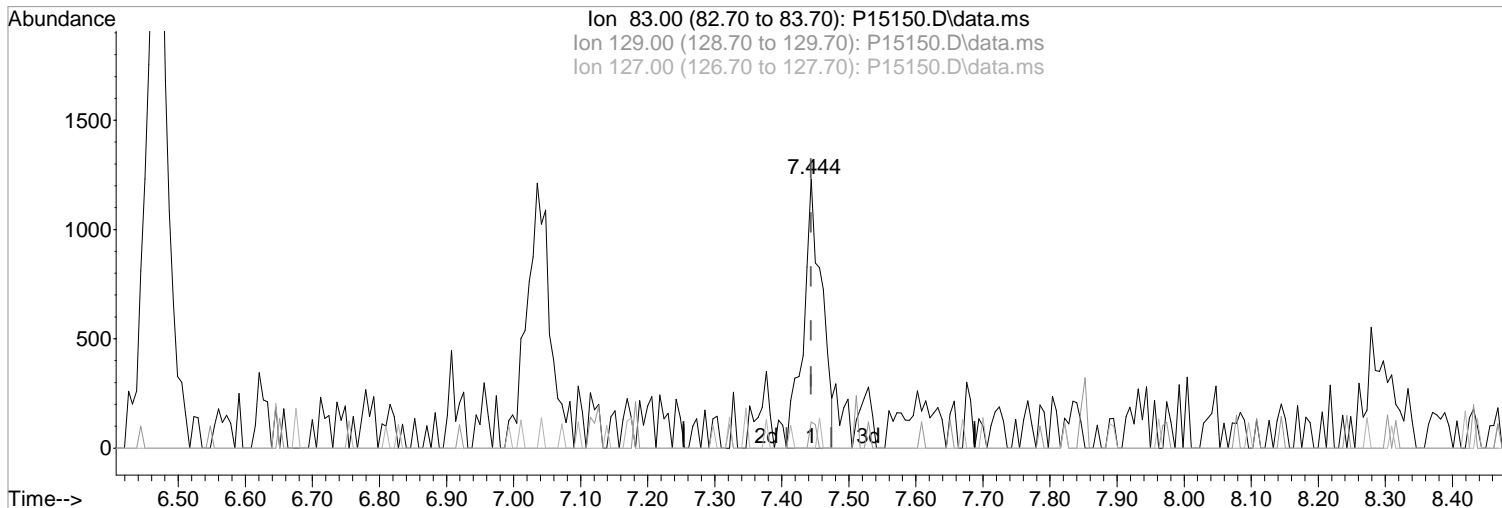
Ion	Exp%	Act%
69.00	100	100
41.00	126.30	98.60#
100.00	38.80	20.76
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(60) Bromodichloromethane (P)

7.444min (+0.000) 0.57 ppb m  
response 2345

Ion	Exp%	Act%
83.00	100	100
129.00	11.20	9.67
127.00	9.20	0.00
0.00	0.00	0.00

Manual Integration:

After

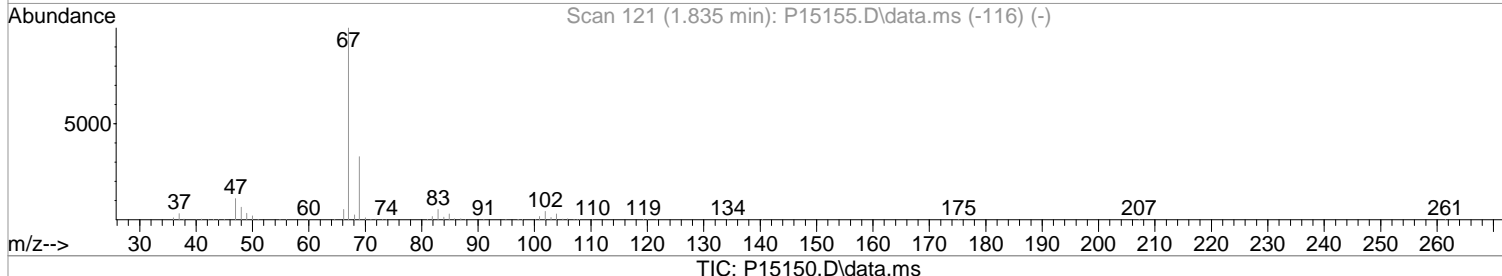
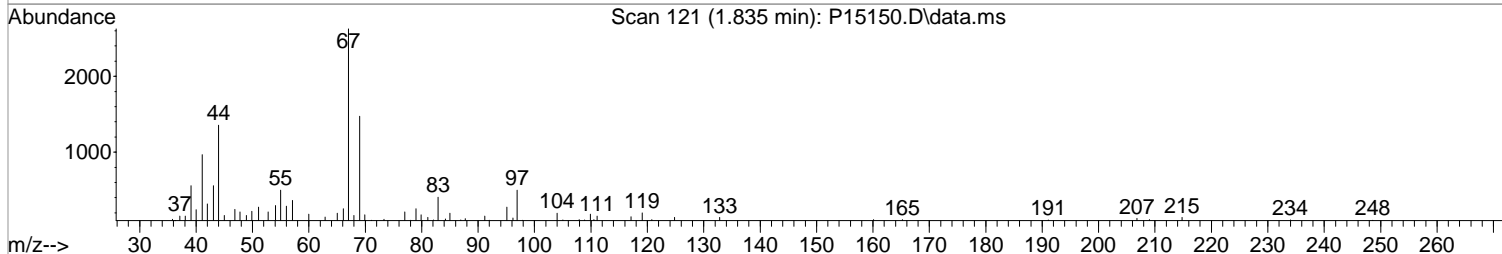
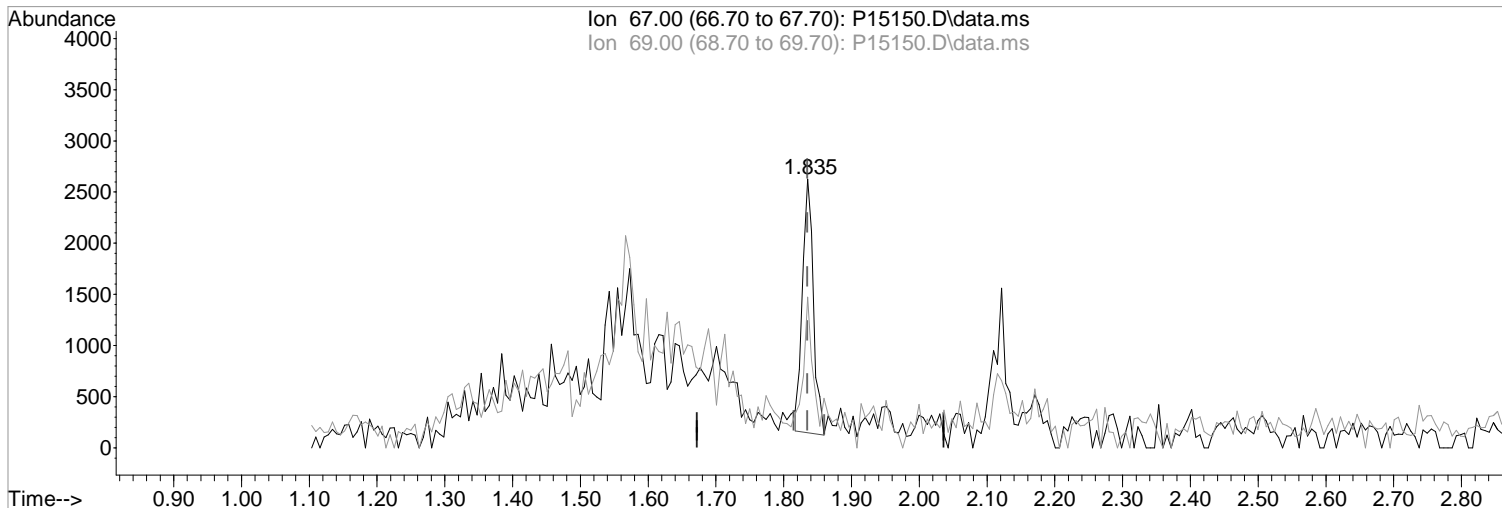
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(7) Freon 21  
1.835min (+0.000) 0.52 ppb m  
response 2803

Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
67.00	100	100
69.00	32.90	56.03#
0.00	0.00	0.00
0.00	0.00	0.00

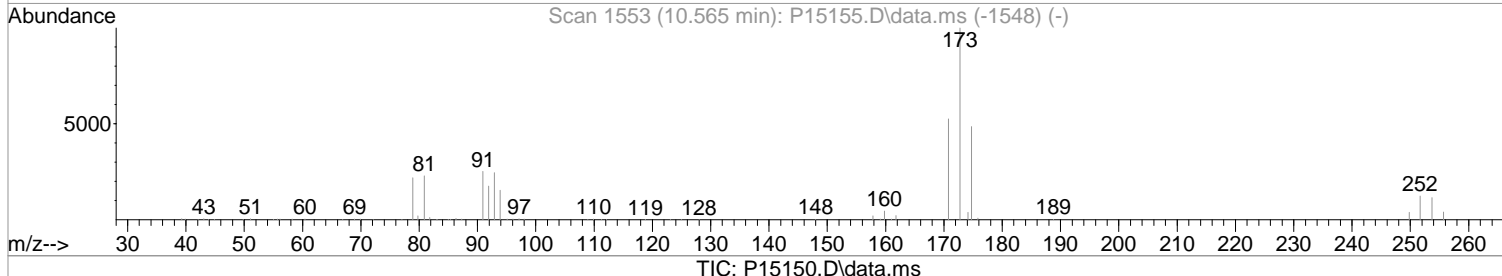
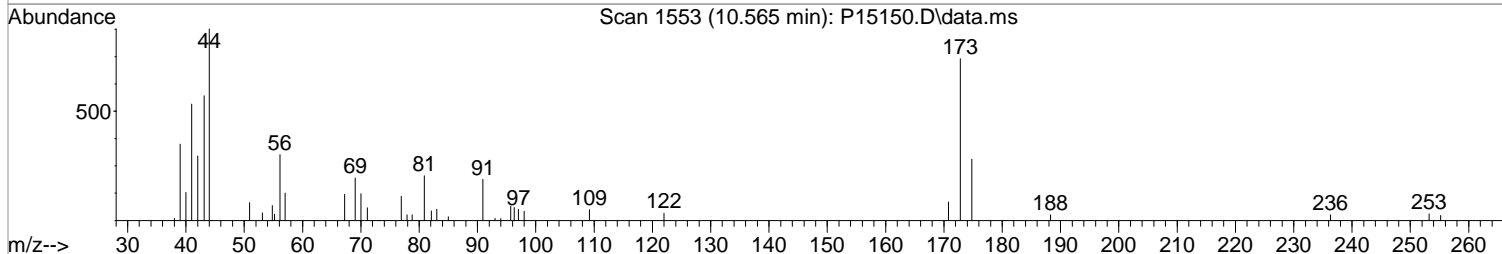
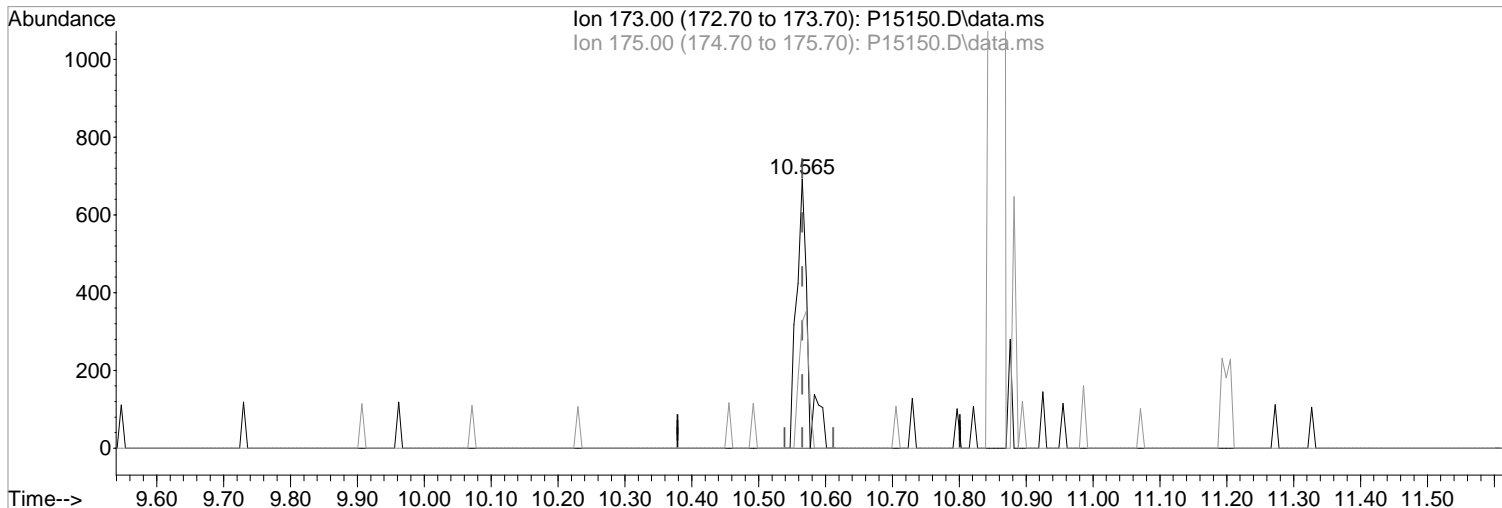
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(87) Bromoform (P)

10.565min (+0.000) 0.48 ppb m  
response 813

Ion	Exp%	Act%
173.00	100	100
175.00	48.70	46.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	282050	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	464403	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	412009	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	195900	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	138045	50.06	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	100.12%			
48) surr1,1,2-dichloroetha...	5.767	65	187998	49.75	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.50%			
65) SURR3,Toluene-d8	8.291	98	605014	49.14	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.28%			
70) SURR2,BFB	10.858	95	229156	48.11	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	96.22%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	1810	0.52	ppb		89
3) Chloromethane	1.311	50	2458	0.57	ppb		83
4) Vinyl Chloride	1.384	62	2220m	0.53	ppb		
5) Bromomethane	1.616	94	2064	0.65	ppb		88
6) Chloroethane	1.683	64	1545	0.59	ppb	#	46
7) Freon 21	1.835	67	2803m	0.52	ppb		
8) Trichlorofluoromethane	1.884	101	2088	0.52	ppb		93
9) Diethyl Ether	2.122	59	1432	0.51	ppb	#	67
10) Freon 123a	2.122	67	1826m	0.54	ppb		
11) Freon 123	2.170	83	2327	0.59	ppb		87
12) Acrolein	2.219	56	2121	2.54	ppb		100
13) 1,1-Dicethene	2.305	96	1971	0.68	ppb	#	84
14) Freon 113	2.305	101	1528	0.56	ppb	#	54
16) 2-Propanol	2.481	45	3548	10.75	ppb	#	43
18) Carbon Disulfide	2.494	76	4735	0.56	ppb		97
20) Allyl Chloride	2.634	76	939	0.61	ppb	#	92
21) Methyl Acetate	2.658	43	1844	0.60	ppb		88
22) Methylene Chloride	2.750	84	1602	0.52	ppb		95
23) TBA	2.871	59	5850	10.29	ppb		67
24) Acrylonitrile	3.006	53	4397	2.66	ppb		89
25) Methyl-t-Butyl Ether	3.054	73	5166	0.50	ppb	#	59
26) trans-1,2-Dichloroethene	3.048	96	1580	0.52	ppb		97
28) 1,1-Dicethane	3.536	63	2884	0.53	ppb		83
29) Vinyl Acetate	3.621	86	647	0.73	ppb	#	1
30) DIPE	3.664	45	5558	0.54	ppb		94
31) 2-Chloro-1,3-Butadiene	3.670	53	3269	0.62	ppb		78
32) ETBE	4.176	59	5602	0.54	ppb		87
33) 2,2-Dichloropropane	4.359	77	2888m	0.60	ppb		
34) cis-1,2-Dichloroethene	4.377	96	1739m	0.49	ppb		
36) Propionitrile	4.505	54	1898	2.71	ppb	#	18
37) Bromochloromethane	4.749	130	1011m	0.52	ppb		
38) Methacrylonitrile	4.767	67	1026	0.56	ppb		98
40) Chloroform	4.950	83	2984m	0.51	ppb		
41) 1,1,1-Trichloroethane	5.231	97	2844m	0.61	ppb		
42) TAME	6.090	73	5239	0.51	ppb		98
46) Carbontetrachloride	5.517	117	1723m	0.49	ppb		
47) 1,1-Dichloropropene	5.517	75	2124	0.52	ppb		73
49) Benzene	5.847	78	6936	0.57	ppb		88
50) 1,2-Dichloroethane	5.883	62	2410	0.54	ppb		78

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Iso-Butyl Alcohol	5.853	43	2000	8.13	ppb	99
52) n-Heptane	6.322	43	2697	0.64	ppb #	64
53) 1-Butanol	6.834	56	3870	23.77	ppb	75
54) Trichloroethene	6.798	130	1823m	0.59	ppb	
55) Methylcyclohexane	7.035	55	2009	0.50	ppb #	78
56) 1,2-Diclpropane	7.066	63	1790m	0.55	ppb	
57) Dibromomethane	7.218	93	969m	0.50	ppb	
58) 1,4-Dioxane	7.279	88	665	10.41	ppb #	51
59) Methyl Methacrylate	7.316	69	1906m	0.64	ppb	
60) Bromodichloromethane	7.444	83	2345m	0.57	ppb	
61) 2-Nitropropane	7.730	41	1314	1.05	ppb #	74
63) cis-1,3-Dichloropropene	7.992	75	2789	0.54	ppb #	77
66) Toluene	8.364	91	7308	0.55	ppb	81
67) trans-1,3-Dichloropropene	8.633	75	2247	0.47	ppb	83
68) Ethyl Methacrylate	8.773	69	1834	0.38	ppb	96
69) 1,1,2-Trichloroethane	8.815	97	1894	0.63	ppb	83
72) Tetrachloroethene	8.968	164	1266	0.56	ppb #	36
74) 1,3-Dichloropropene	8.986	76	2746	0.52	ppb #	68
75) Dibromochloromethane	9.212	129	1244	0.45	ppb	93
76) N-Butyl Acetate	9.279	43	2105	0.37	ppb	91
77) 1,2-Dibromoethane	9.315	107	1446	0.49	ppb	94
78) Chlorobenzene	9.809	112	3984	0.49	ppb	88
79) 3-CBTF	9.827	180	2614	0.61	ppb #	80
80) 4-CBTF	9.882	180	2335	0.59	ppb	92
81) 1,1,1,2-Tetrachloroethane	9.895	131	1547	0.54	ppb #	77
82) Ethylbenzene	9.931	106	2253	0.51	ppb #	63
83) (m+p)Xylene	10.041	106	5183	0.96	ppb #	78
84) o-Xylene	10.400	106	2802	0.52	ppb #	69
85) Styrene	10.413	104	4502	0.50	ppb	88
87) Bromoform	10.565	173	813m	0.48	ppb	
88) 2-CBTF	10.644	180	2277	0.59	ppb	91
89) Isopropylbenzene	10.736	105	7002	0.54	ppb	93
90) Cyclohexanone	10.797	55	9162	9.36	ppb	88
91) trans-1,4-Dichloro-2-B...	11.041	53	754	0.74	ppb	90
92) 1,1,2,2-Tetrachloroethane	10.998	83	2299	0.59	ppb #	77
93) Bromobenzene	10.986	156	1549	0.49	ppb	95
94) 1,2,3-Trichloropropene	11.022	110	607	0.48	ppb #	70
95) n-Propylbenzene	11.089	91	7874	0.53	ppb	86
96) 2-Chlorotoluene	11.156	91	5026	0.54	ppb	90
97) 3-Chlorotoluene	11.211	91	5127	0.52	ppb #	94
98) 4-Chlorotoluene	11.248	91	5876	0.55	ppb	91
99) 1,3,5-Trimethylbenzene	11.248	105	5889	0.55	ppb	97
100) tert-Butylbenzene	11.516	119	5013	0.54	ppb	87
101) 1,2,4-Trimethylbenzene	11.559	105	5745	0.53	ppb	76
102) 3,4-DCBTF	11.620	214	1903	0.61	ppb #	85
103) sec-Butylbenzene	11.699	105	7365	0.54	ppb	98
104) p-Isopropyltoluene	11.821	119	6240	0.54	ppb	89
105) 1,3-Dclbenz	11.784	146	3286	0.55	ppb	85
106) 1,4-Dclbenz	11.858	146	3509	0.56	ppb	96
107) 2,4-DCBTF	11.906	214	1816	0.63	ppb #	65
108) 2,5-DCBTF	11.949	214	1675	0.55	ppb #	87
109) n-Butylbenzene	12.156	91	5699	0.53	ppb #	78
110) 1,2-Dclbenz	12.162	146	2831	0.47	ppb	86
111) 1,2-Dibromo-3-chloropr...	12.790	157	383m	0.39	ppb	
112) Trielution Dichlorotol...	12.906	125	9592	1.63	ppb	94
113) 1,3,5 Trichlorobenzene	12.955	180	2514	0.54	ppb #	88

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 *N* 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114) Coelution Dichlorotoluene	13.229	125	5958	0.95	ppb #	87
115) 1,2,4-Tcbenzene	13.437	180	2068	0.48	ppb	82
116) Hexachlorobt	13.577	225	1216	0.60	ppb #	86
117) Naphthalen	13.625	128	4879	0.41	ppb	95
118) 1,2,3-Tclbenzene	13.814	180	1962	0.46	ppb #	74
119) 2,4,5-Trichlorotolene	14.400	159	747	0.29	ppb #	82
120) 2,3,6-Trichlorotoluene	14.485	159	561	0.24	ppb #	73

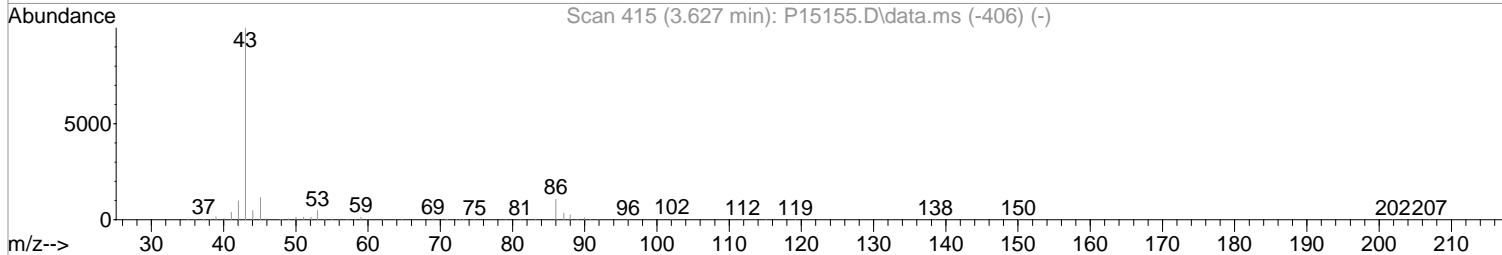
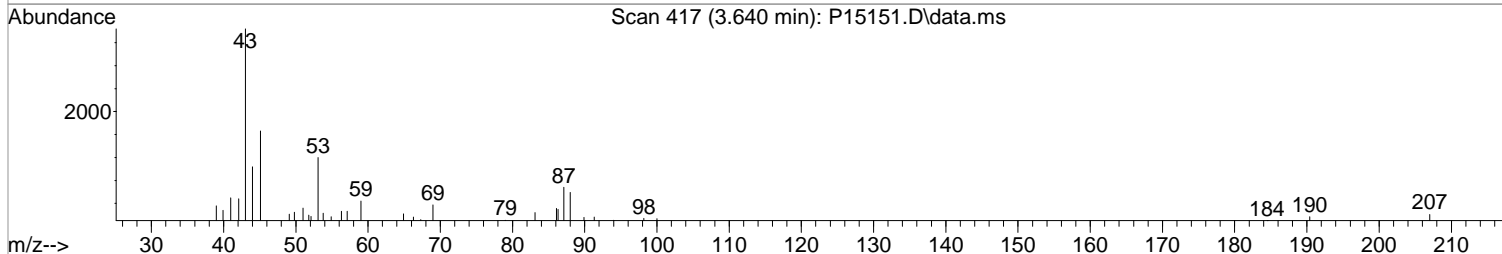
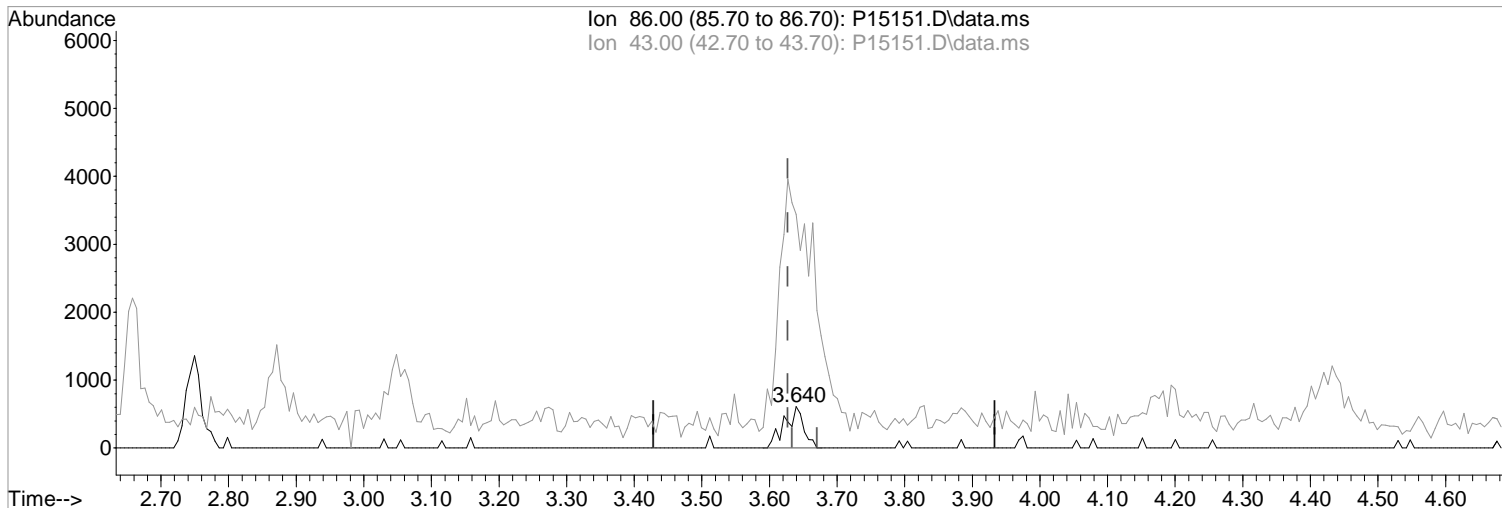
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(29) Vinyl Acetate  
3.640min (+0.012) 1.32 ppb m  
response 1198

Manual Integration:

After

Split Peak

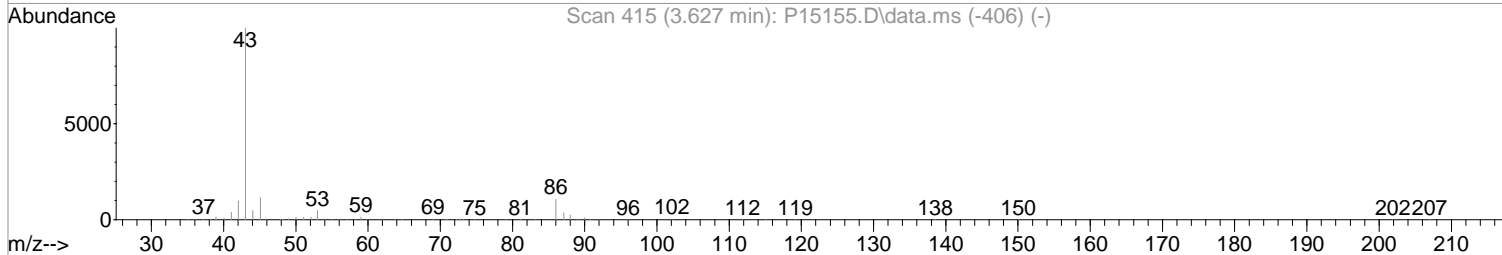
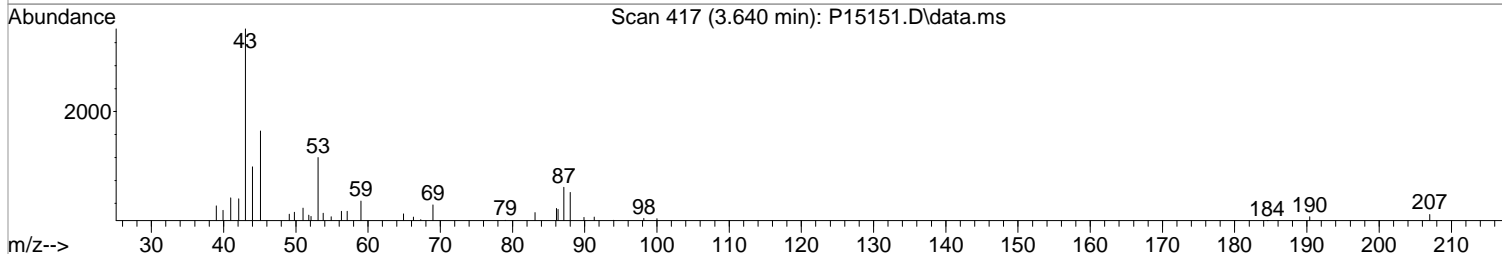
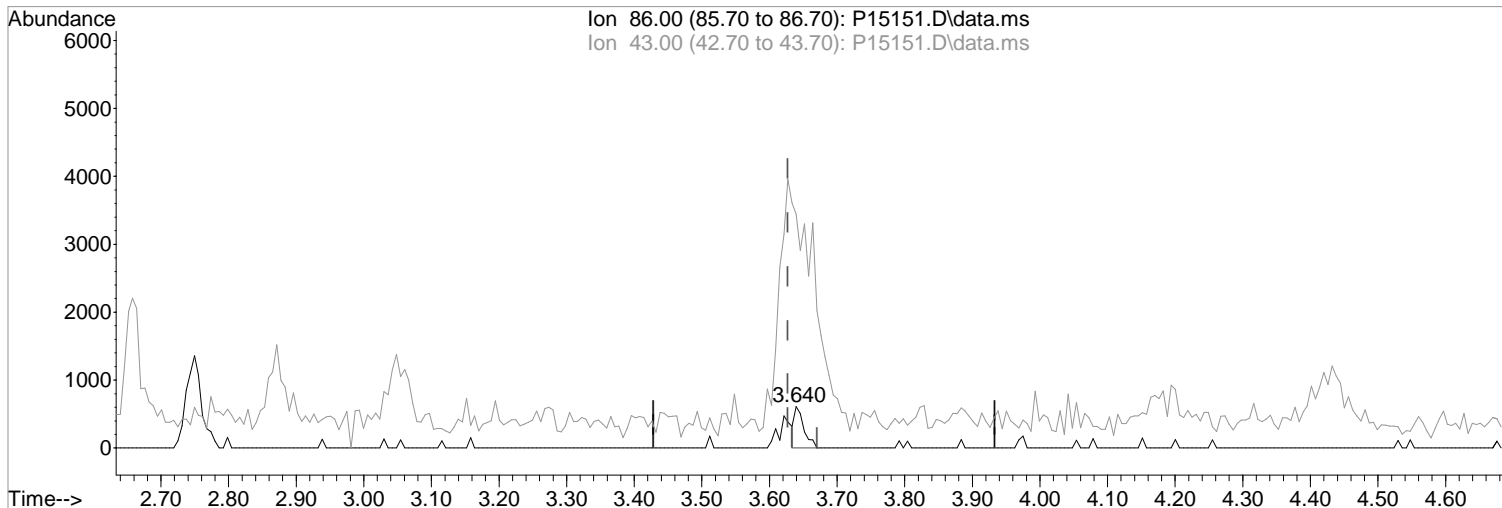
01/02/18

Ion	Exp%	Act%
86.00	100	100
43.00	952.00	1096.50#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(29) Vinyl Acetate  
3.640min (+0.012) 0.65 ppb  
response 586

Manual Integration:  
Before

Ion	Exp%	Act%
86.00	100	100
43.00	952.00	565.35#
0.00	0.00	0.00
0.00	0.00	0.00

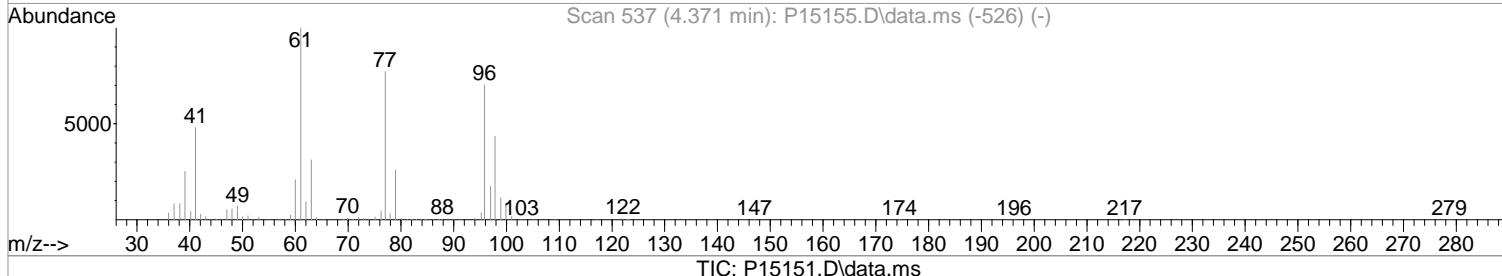
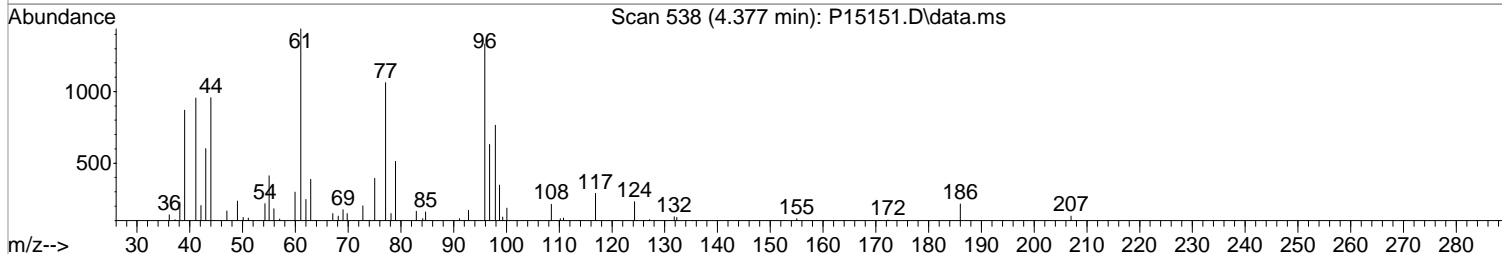
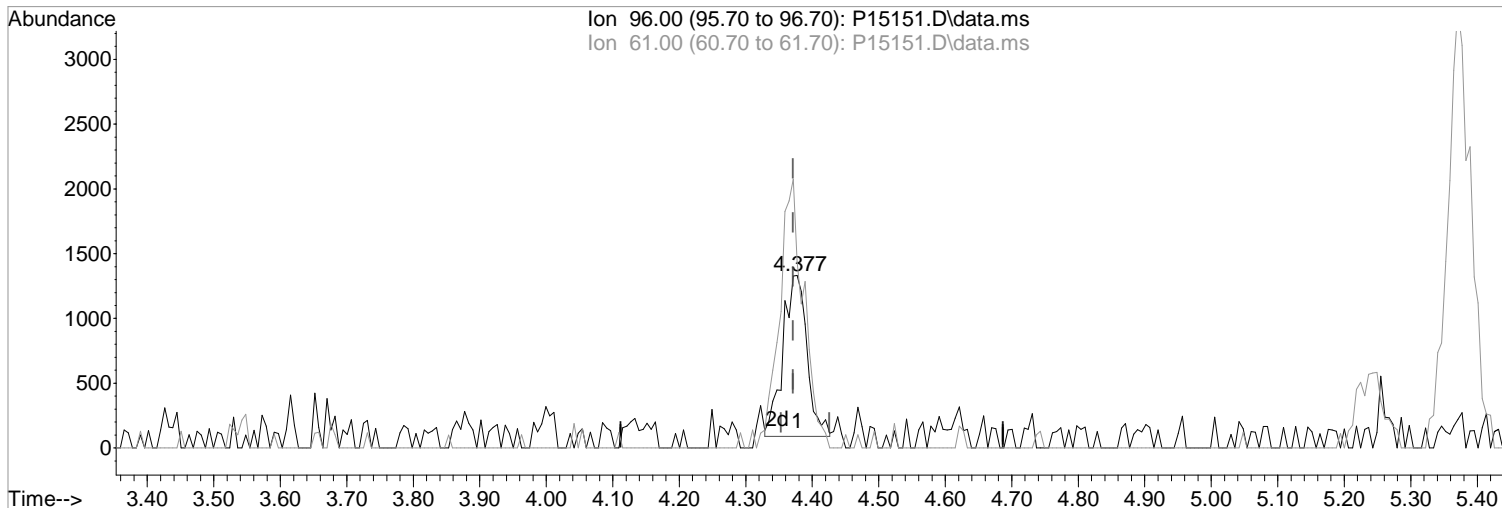
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.86 ppb m

response 3133

Ion	Exp%	Act%
96.00	100	100
61.00	142.80	107.95#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

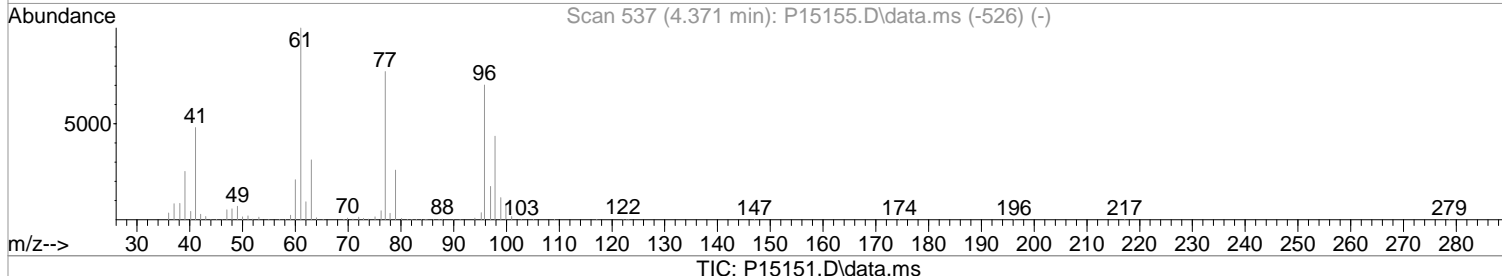
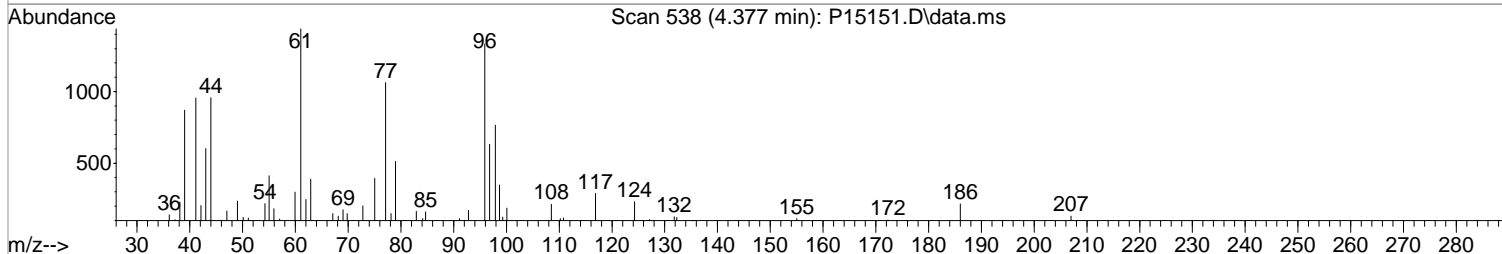
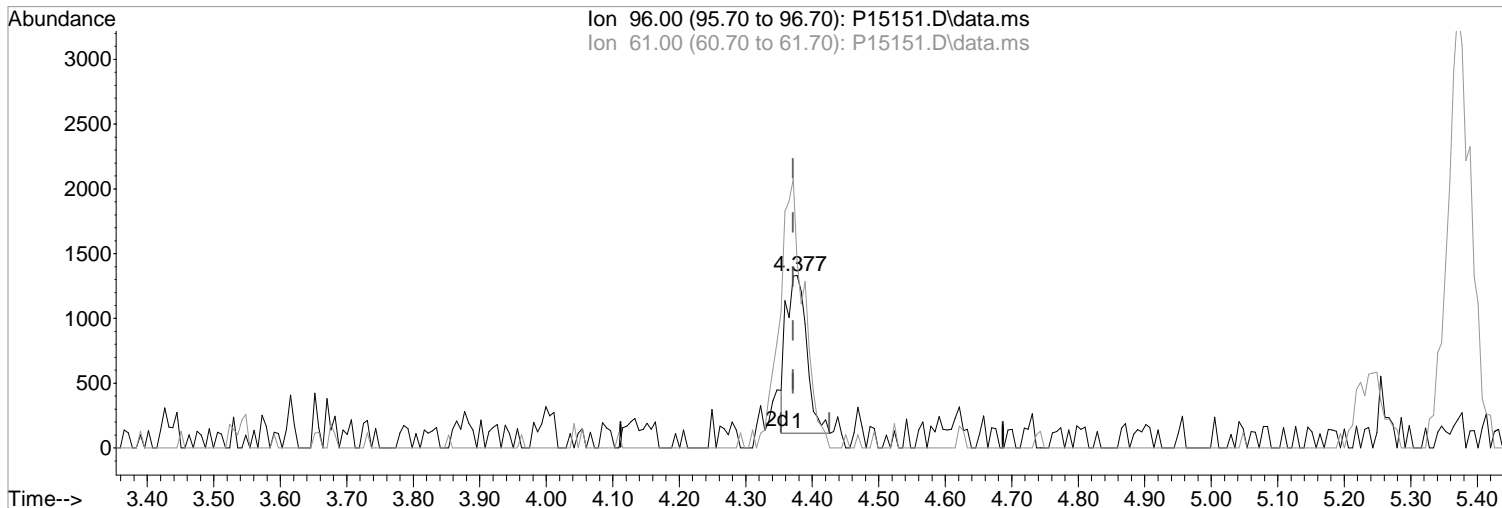
Split Peak

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.72 ppb

response 2622

Ion Exp% Act%

96.00 100 100

61.00 142.80 107.95#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

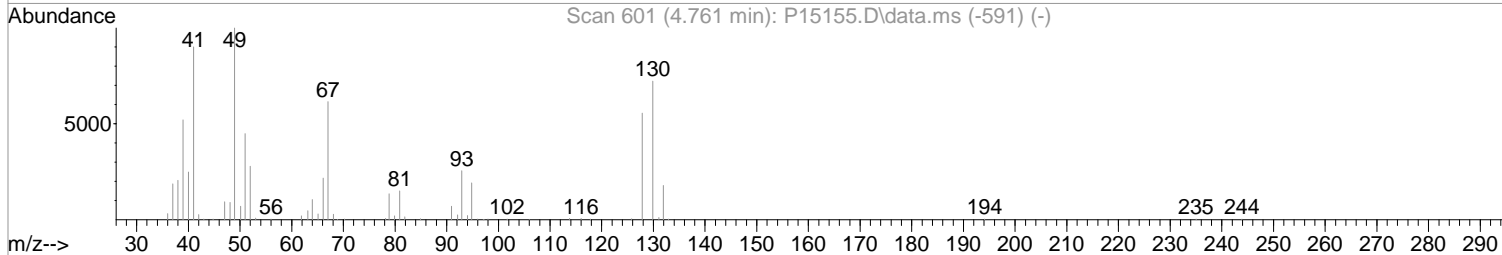
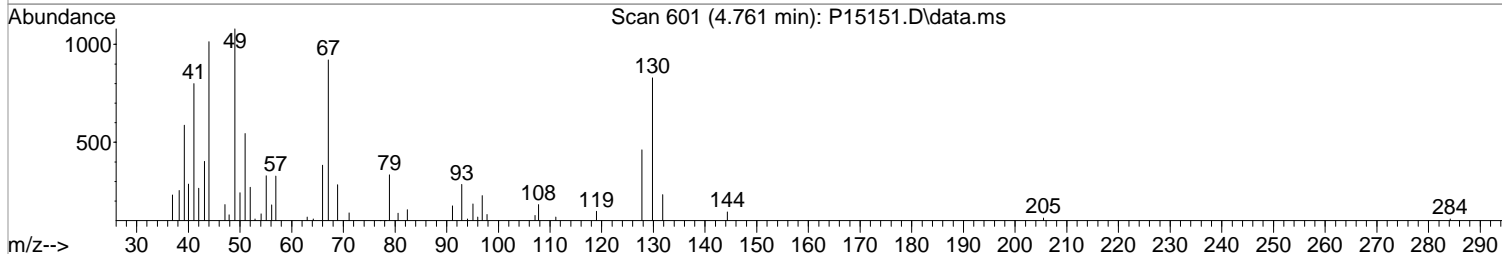
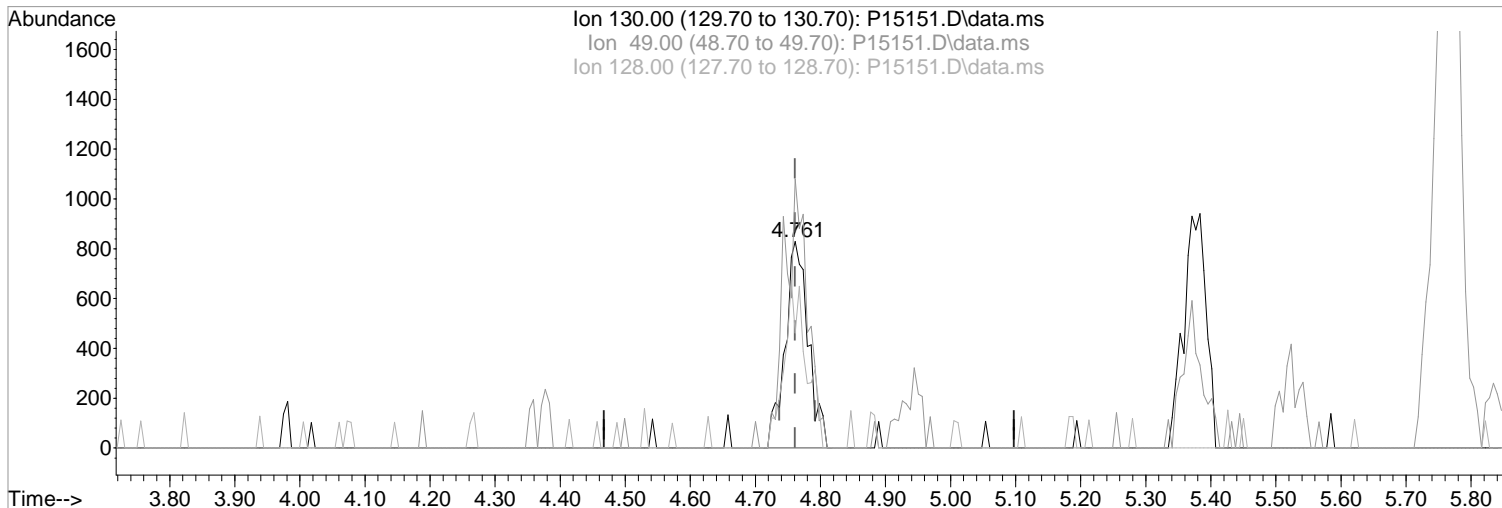
Before

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane  
4.761min (+0.000) 1.02 ppb m  
response 2044

Manual Integration:

After

Split Peak

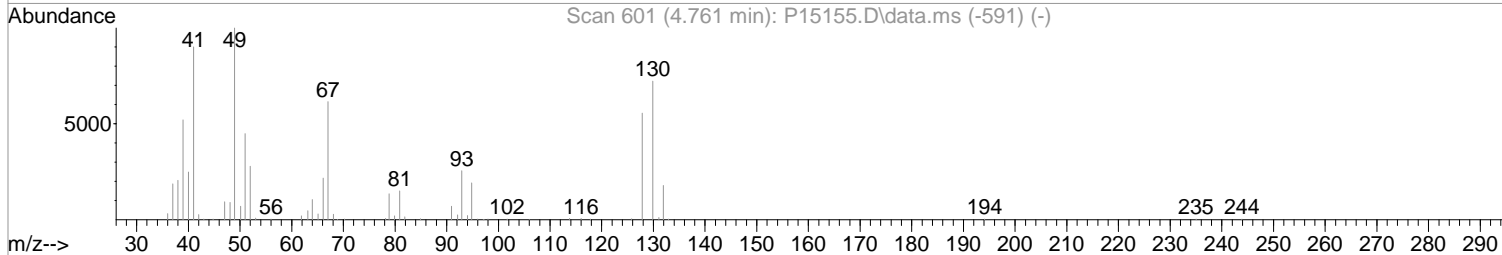
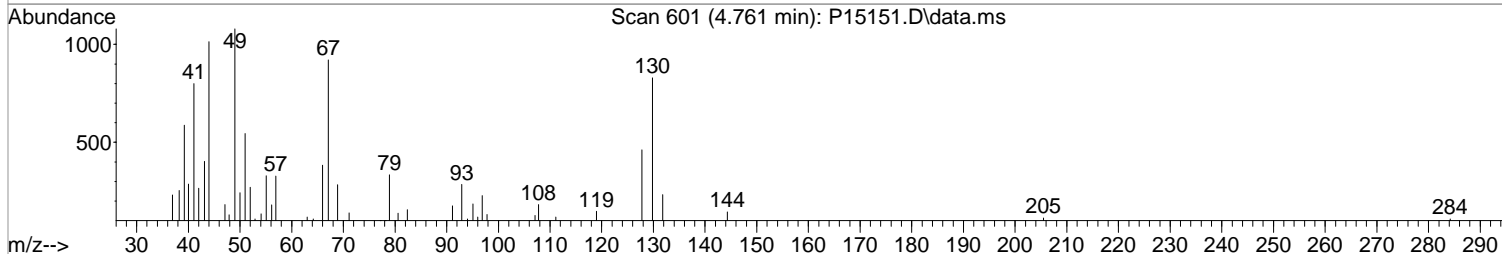
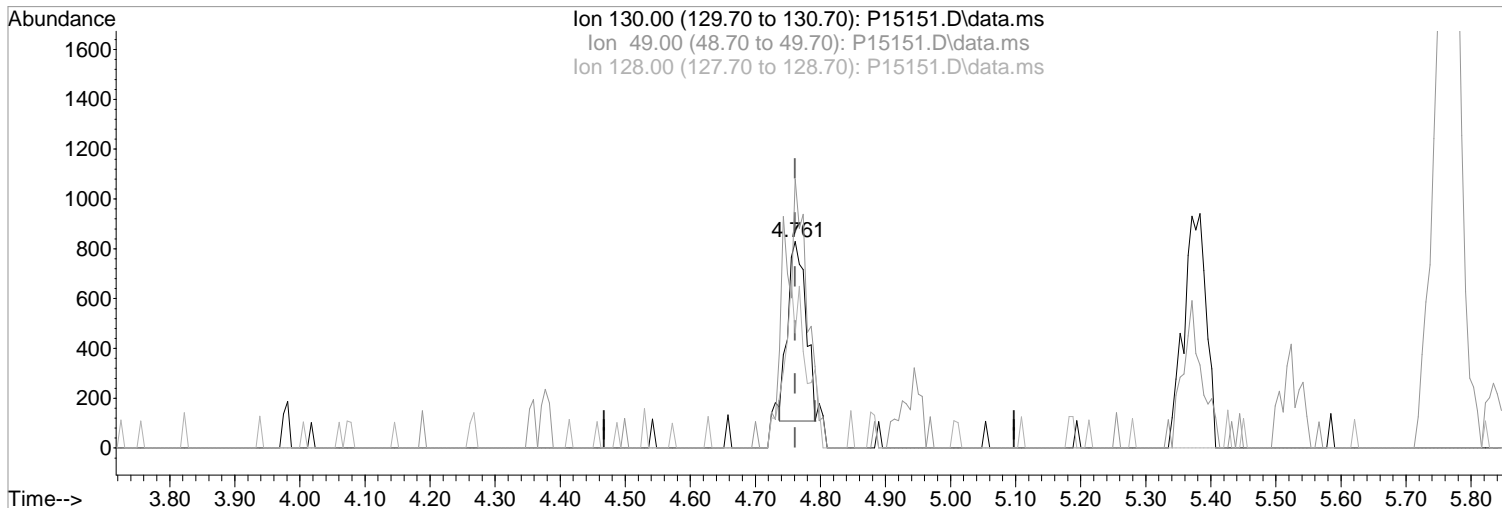
01/02/18

Ion	Exp%	Act%
130.00	100	100
49.00	139.00	130.28
128.00	77.10	55.73#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane  
4.761min (+0.000) 0.70 ppb  
response 1394

Manual Integration:  
Before

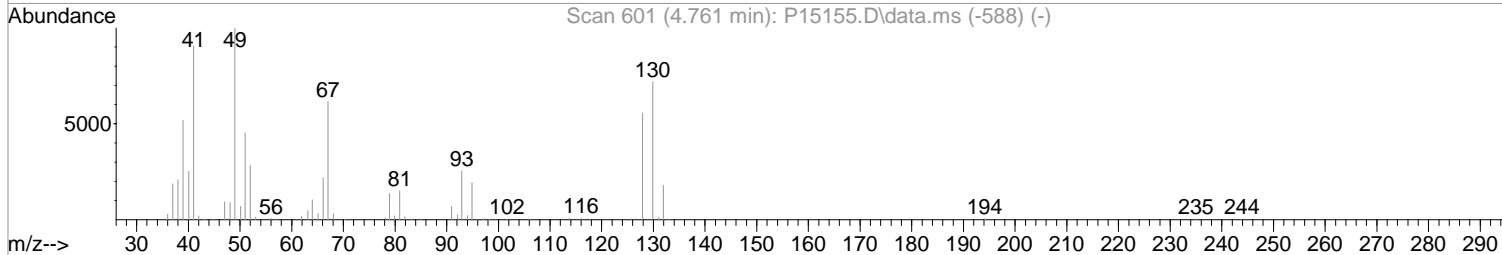
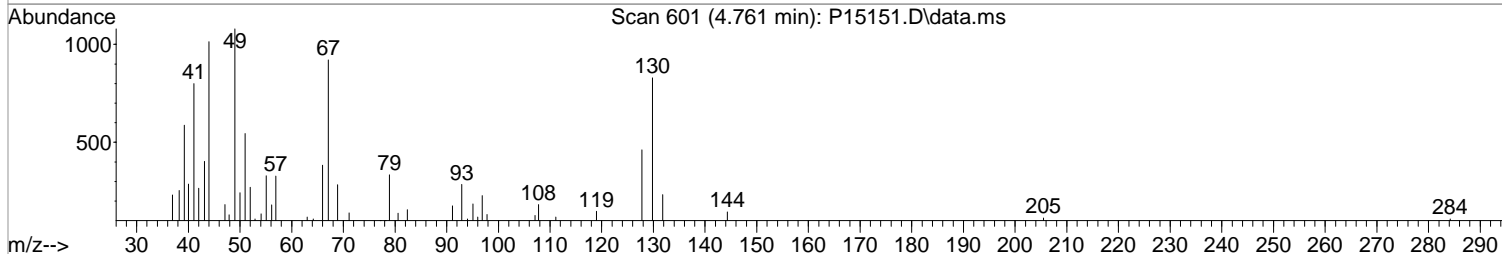
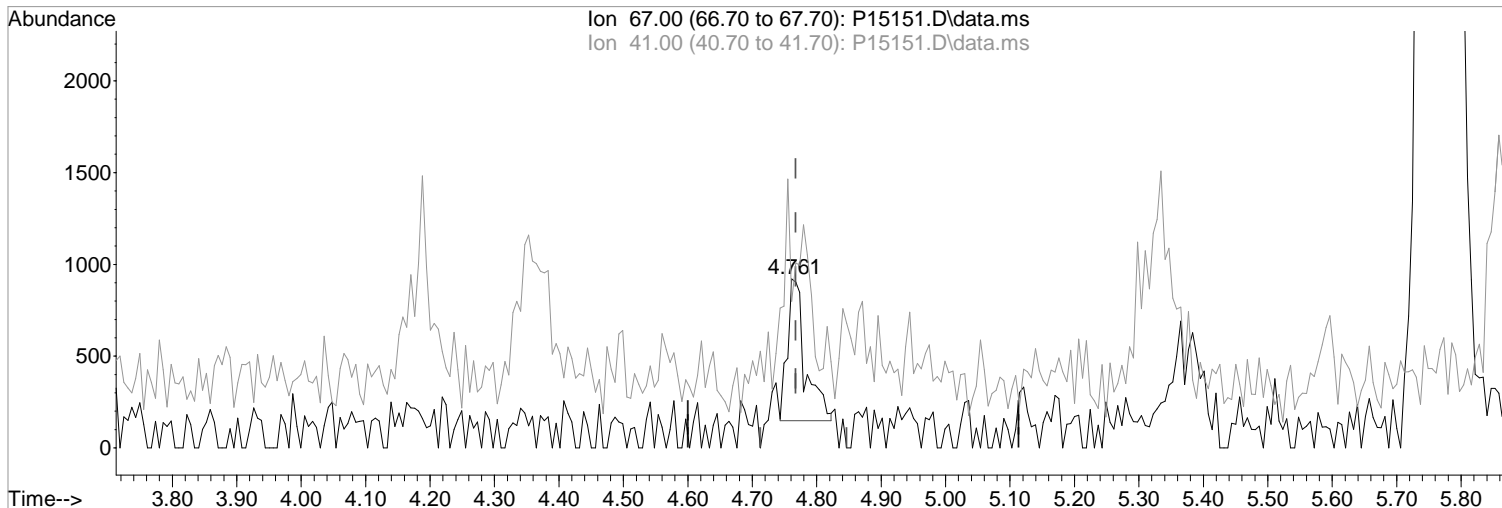
Ion	Exp%	Act%
130.00	100	100
49.00	139.00	130.28
128.00	77.10	55.73#
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(38) Methacrylonitrile  
4.761min (-0.006) 0.80 ppb m  
response 1485

Manual Integration:

After

Poor integration.

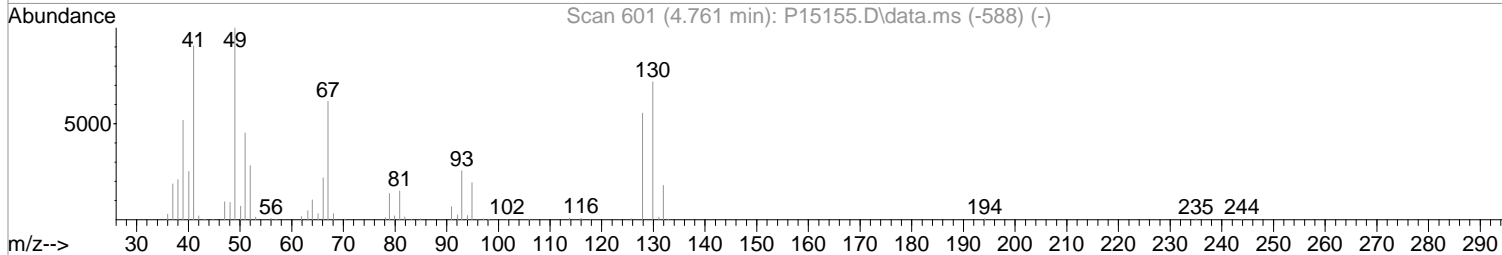
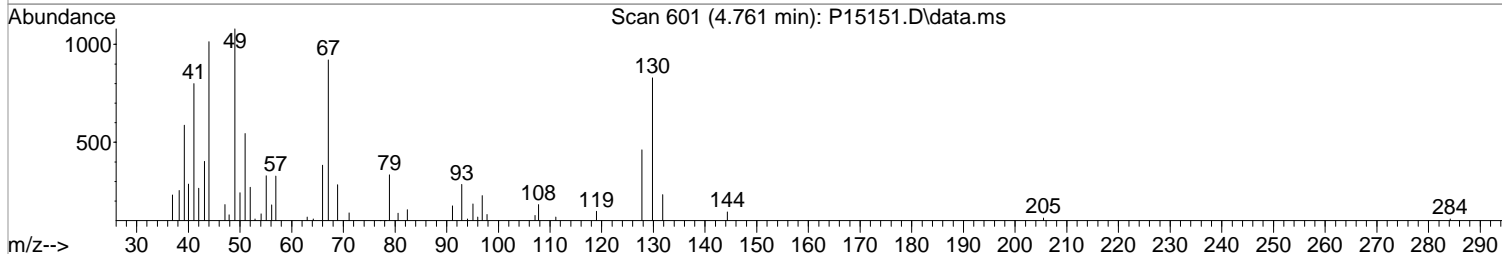
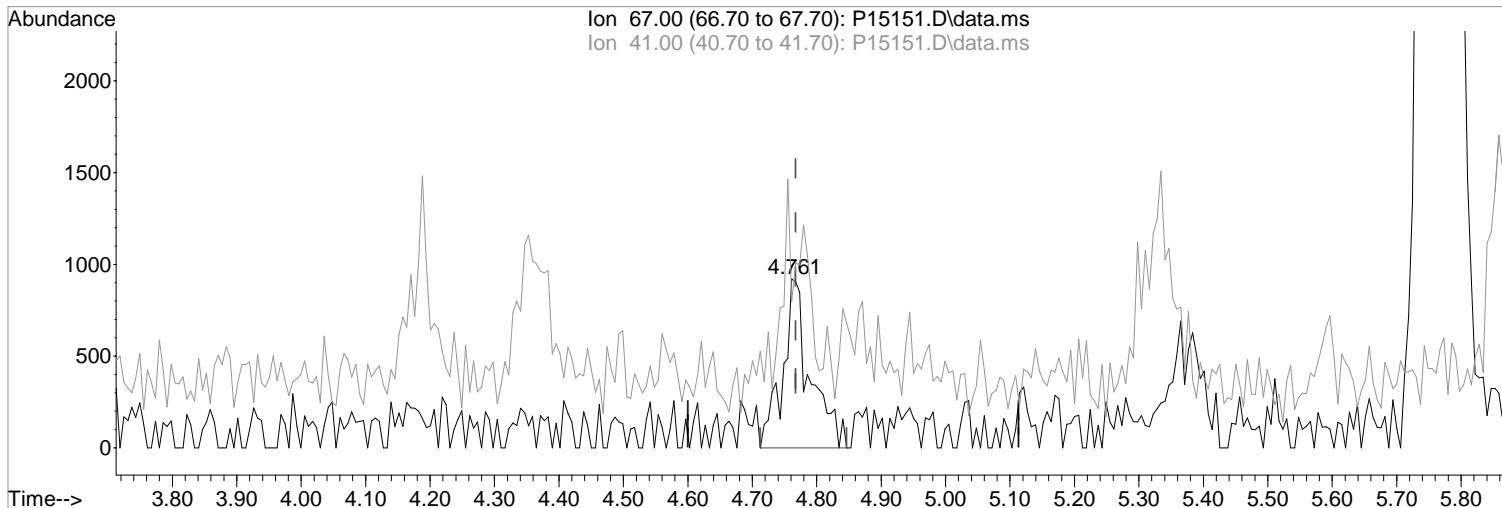
Ion	Exp%	Act%
67.00	100	100
41.00	147.70	86.75#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



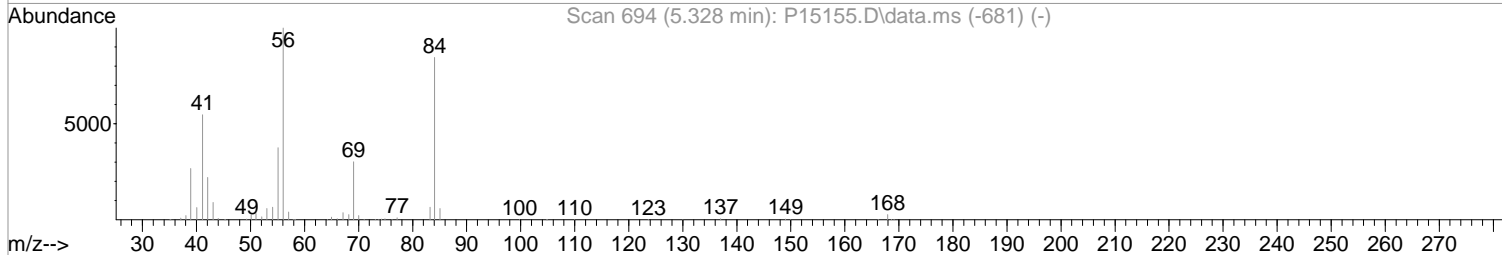
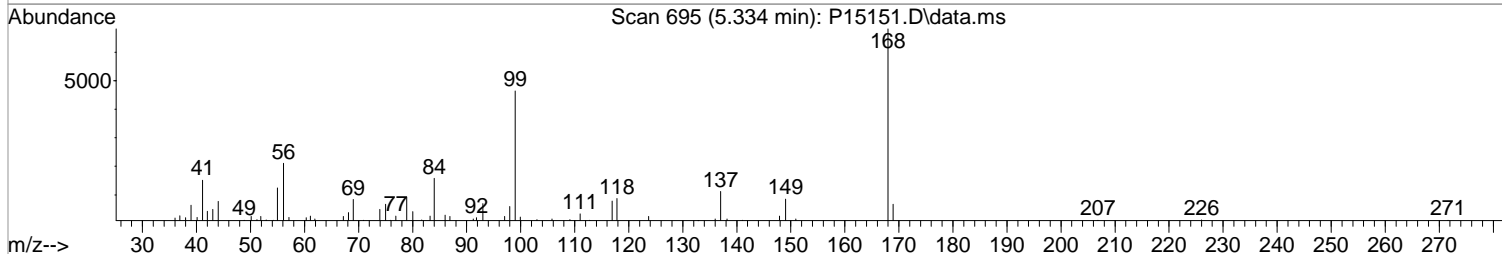
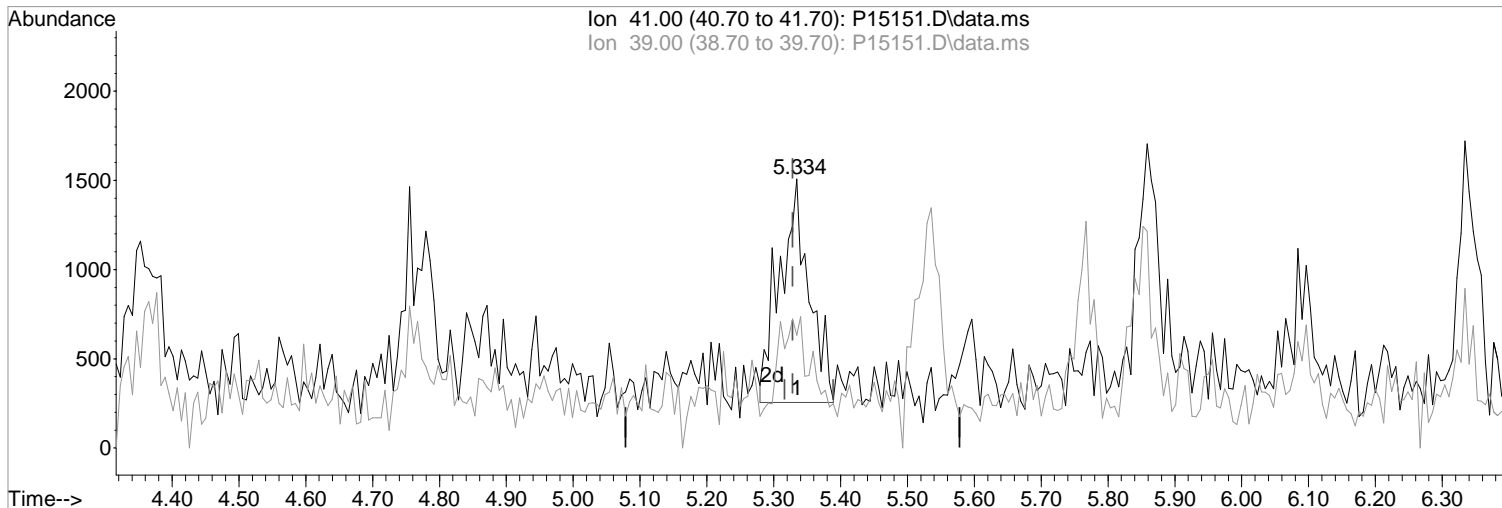
(38) Methacrylonitrile  
4.761min (-0.006) 1.48 ppb  
response 2730  
Ion Exp% Act%  
67.00 100 100  
41.00 147.70 86.75#  
0.00 0.00 0.00  
0.00 0.00 0.00

Manual Integration:  
Before  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(44) Cyclohexane (P)

5.334min (+0.006) 1.22 ppb m

response 3829

Ion	Exp%	Act%
41.00	100	100
39.00	49.10	41.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Split Peak

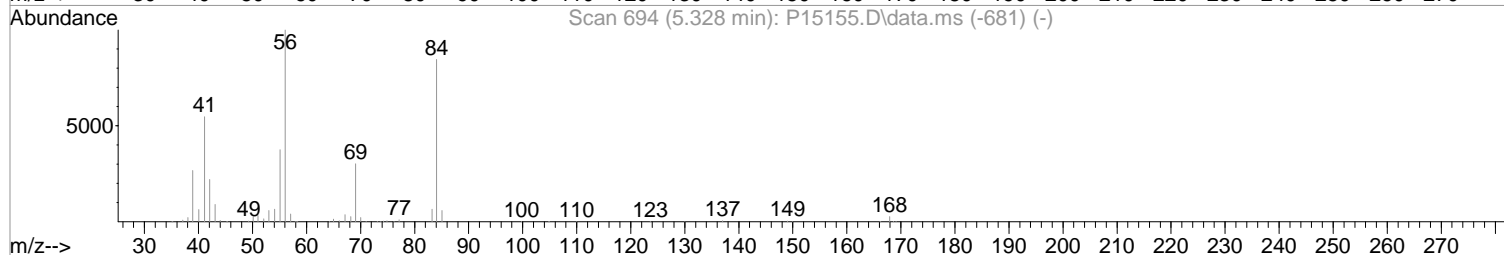
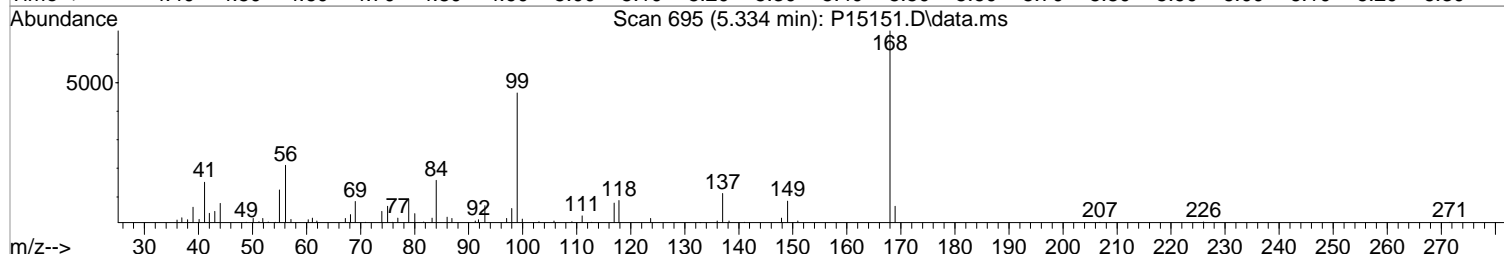
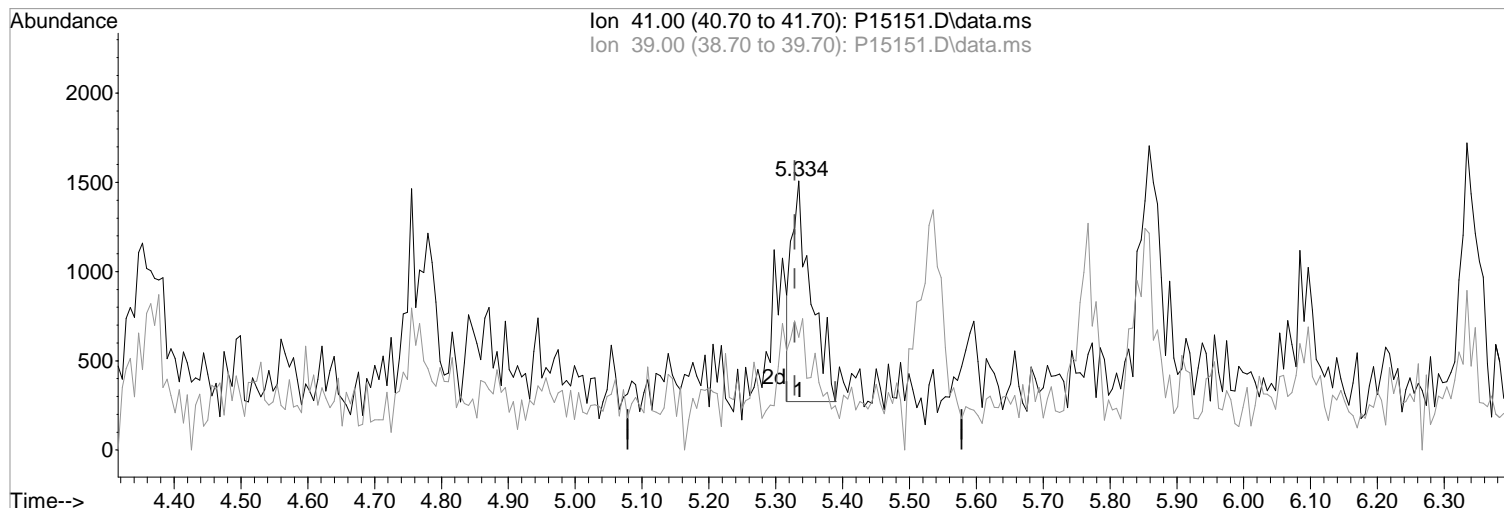
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(44) Cyclohexane (P)  
5.334min (+0.006) 0.81 ppb  
response 2539

Manual Integration:  
Before

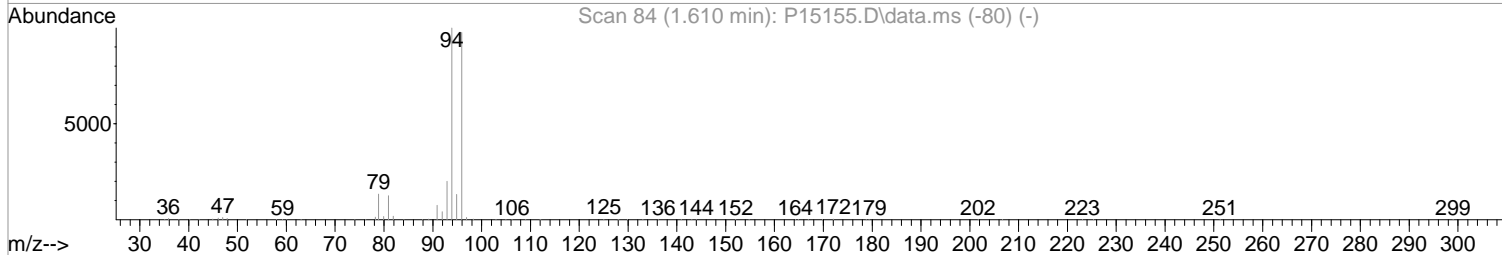
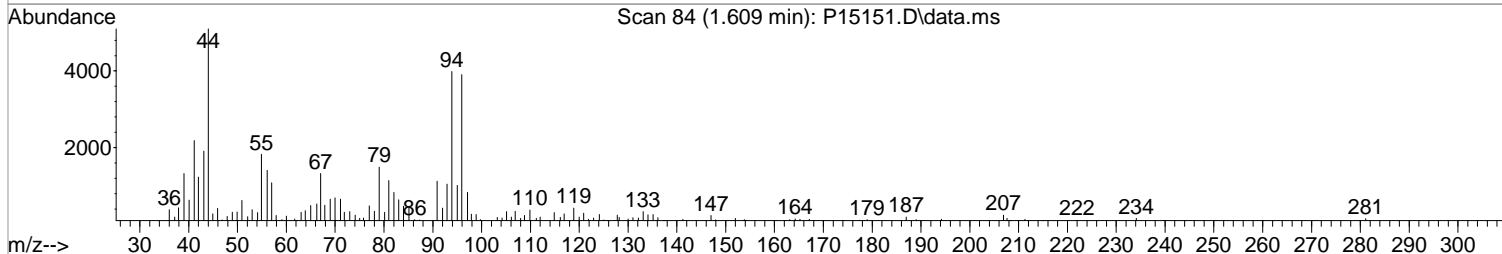
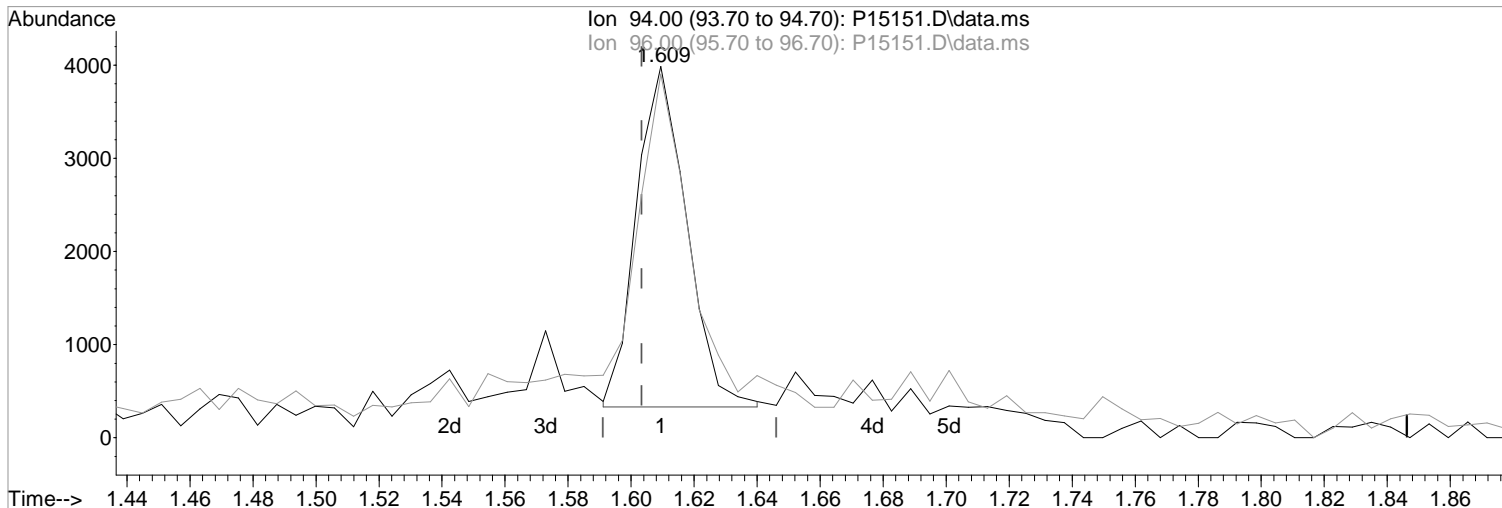
Ion	Exp%	Act%
41.00	100	100
39.00	49.10	41.91
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



TIC: P15151.D\data.ms

(5) Bromomethane (P)  
 1.609min (+0.006) 1.25 ppb m  
 response 4038

Manual Integration:  
 After  
 Poor integration.

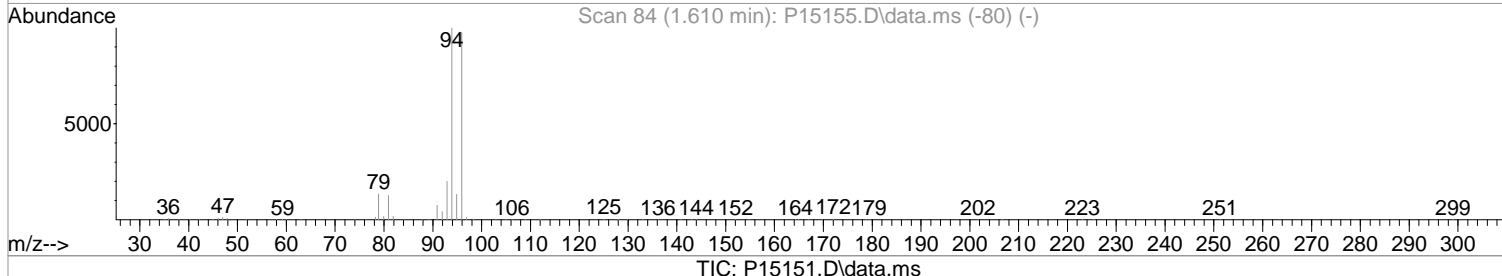
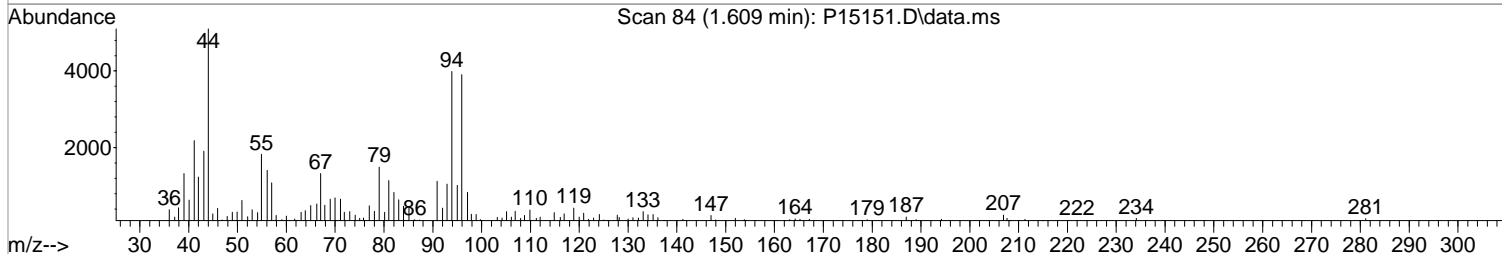
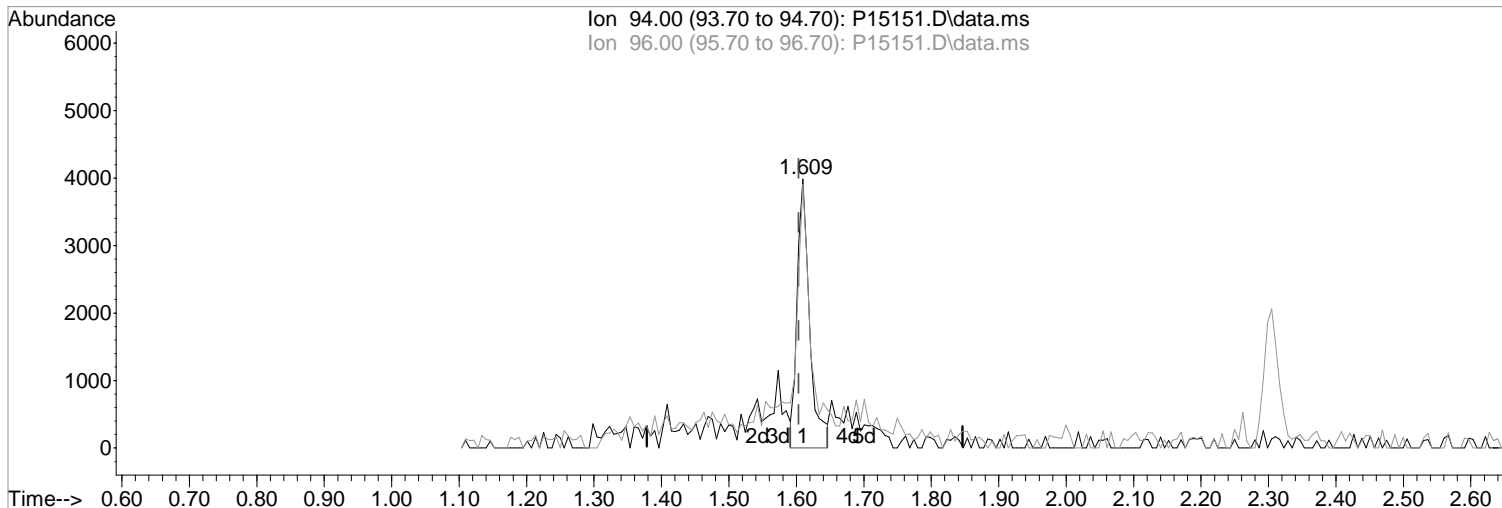
Ion	Exp%	Act%
94.00	100	100
96.00	97.70	97.97
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.609min (+0.006) 1.59 ppb  
response 5131

Manual Integration:  
Before

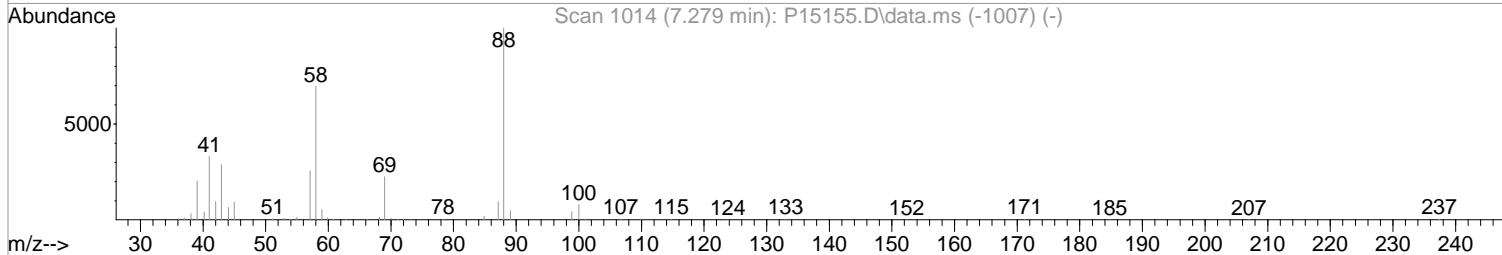
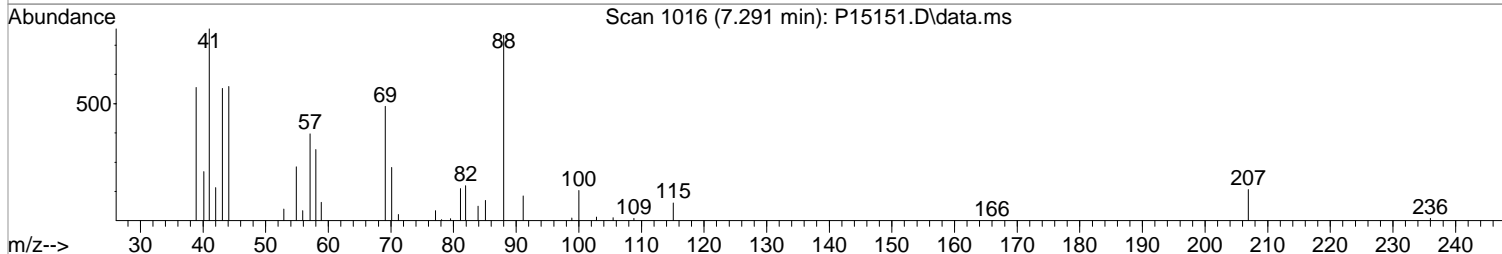
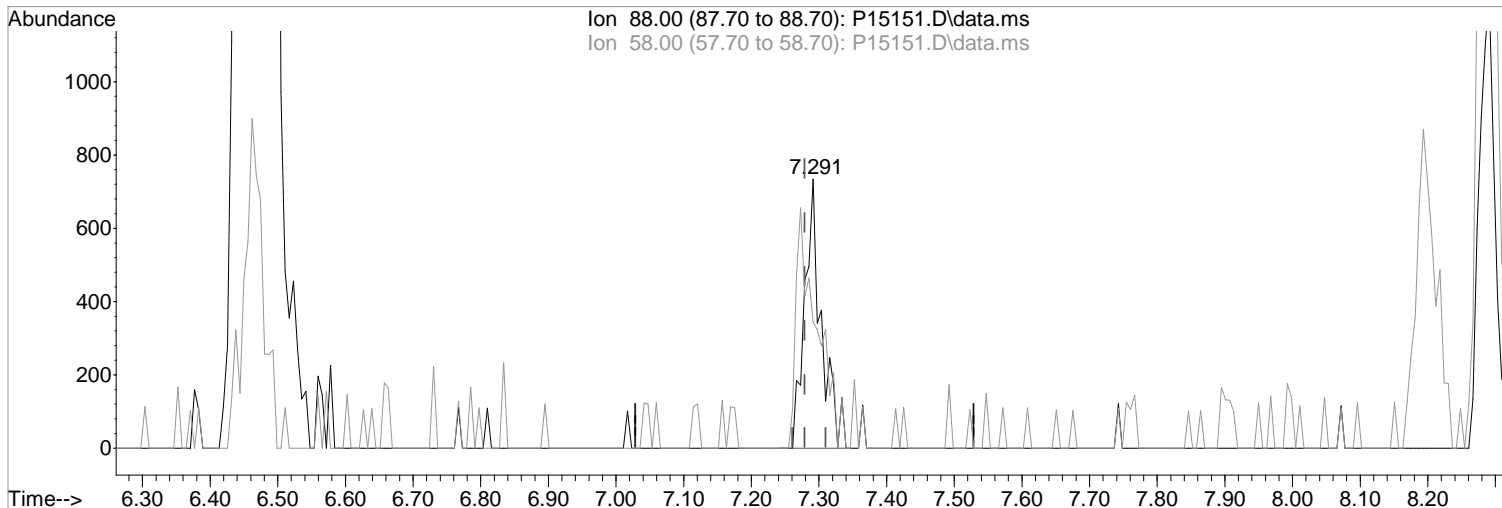
Ion	Exp%	Act%
94.00	100	100
96.00	97.70	97.97
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(58) 1,4-Dioxane  
7.291min (+0.012) 19.01 ppb m  
response 1262

Manual Integration:

After  
Split Peak

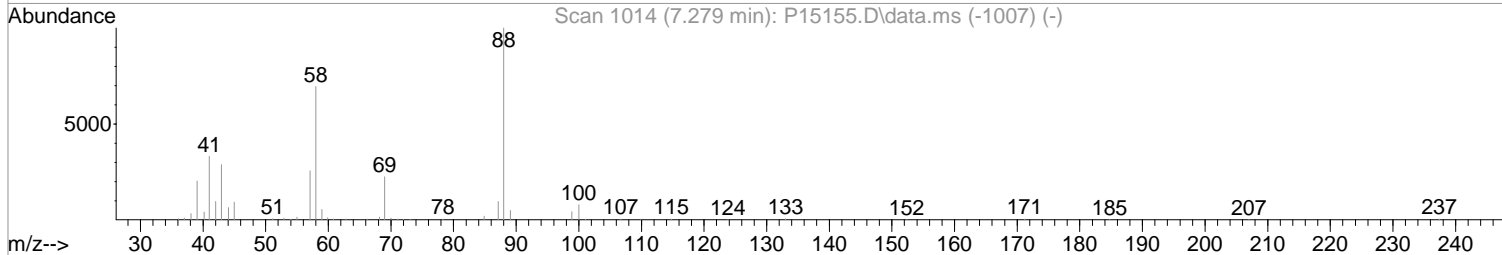
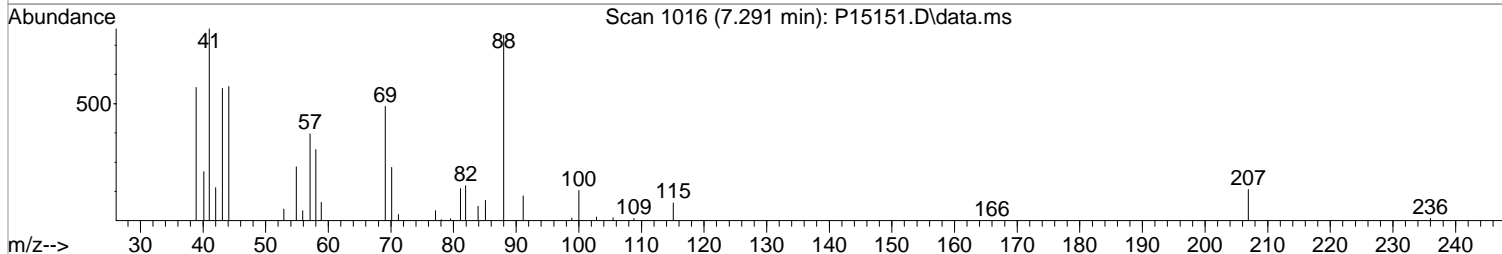
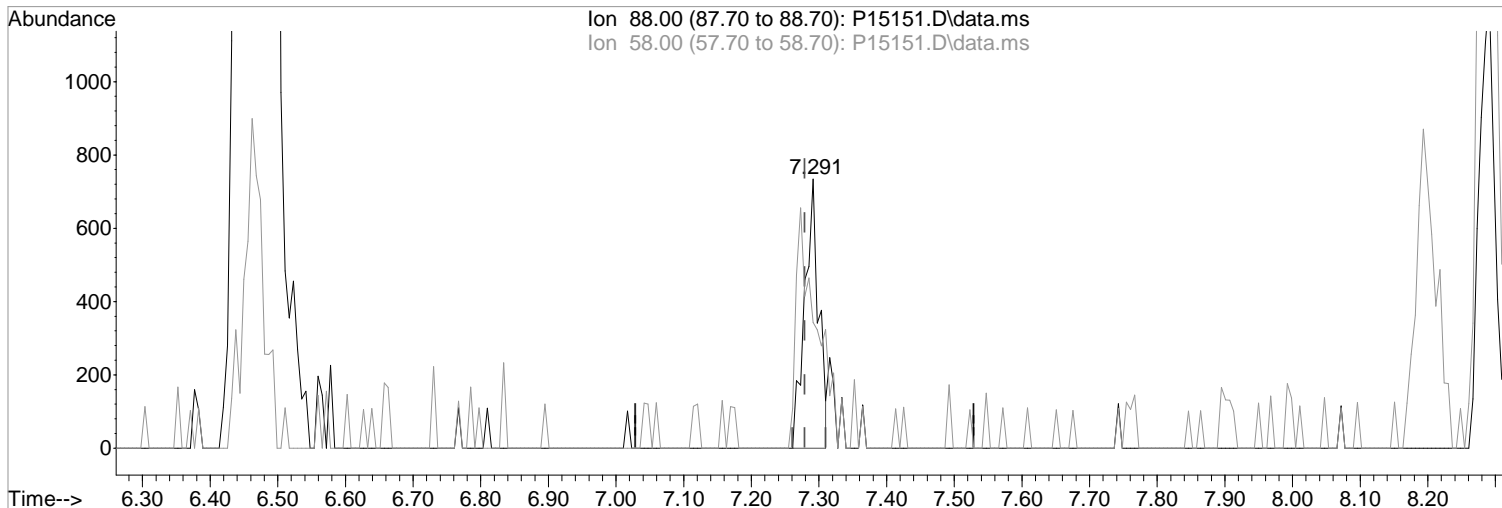
Ion	Exp%	Act%
88.00	100	100
58.00	70.00	46.73#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(58) 1,4-Dioxane  
7.291min (+0.012) 15.92 ppb  
response 1057

Manual Integration:

Before

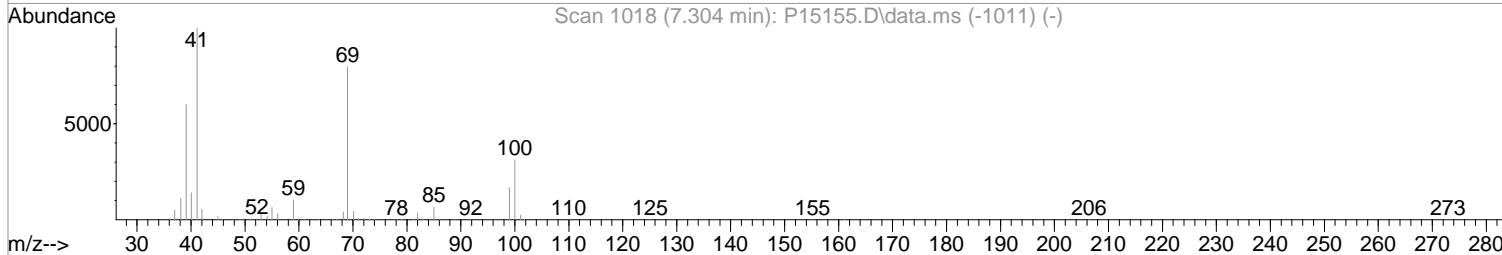
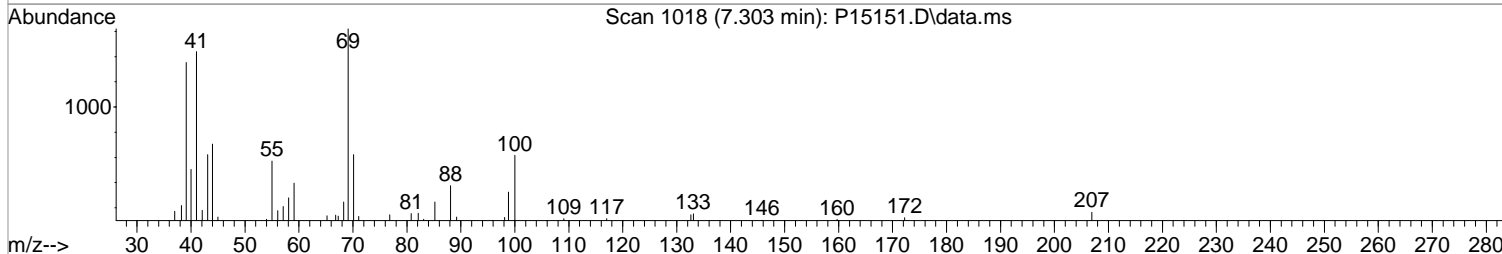
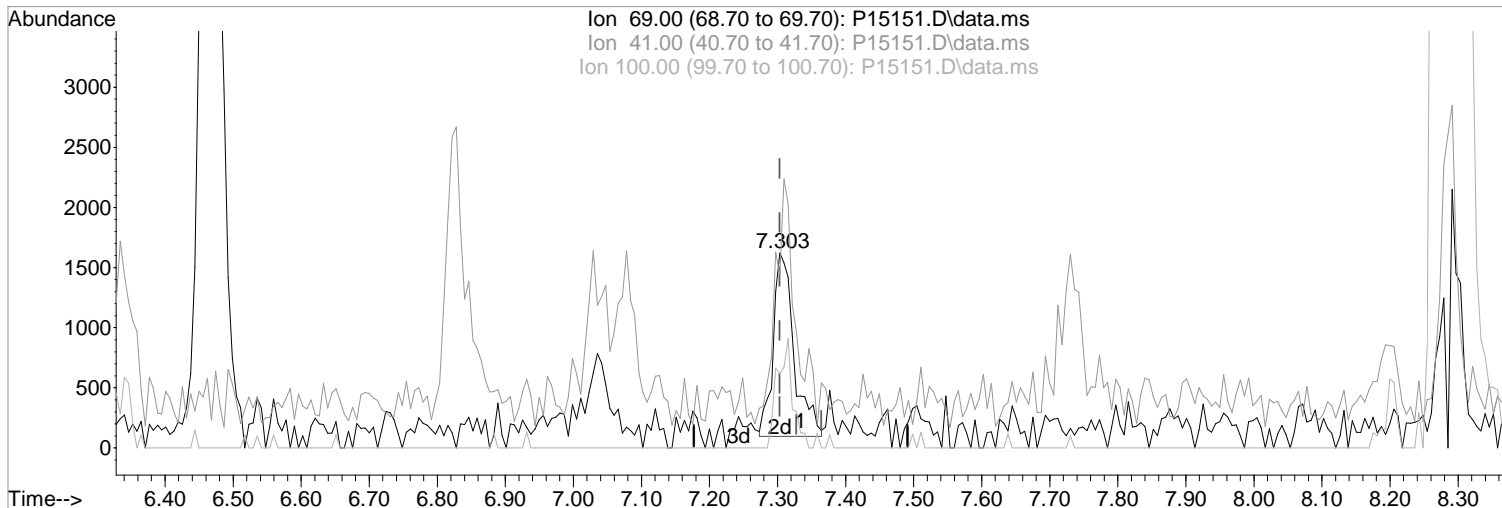
Ion	Exp%	Act%
88.00	100	100
58.00	70.00	46.73#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(59) Methyl Methacrylate  
7.303min (+0.000) 1.05 ppb m  
response 3248  
Ion Exp% Act%  
69.00 100 100  
41.00 126.30 88.77#  
100.00 38.80 38.06  
0.00 0.00 0.00

Manual Integration:  
After  
Split Peak  
01/02/18

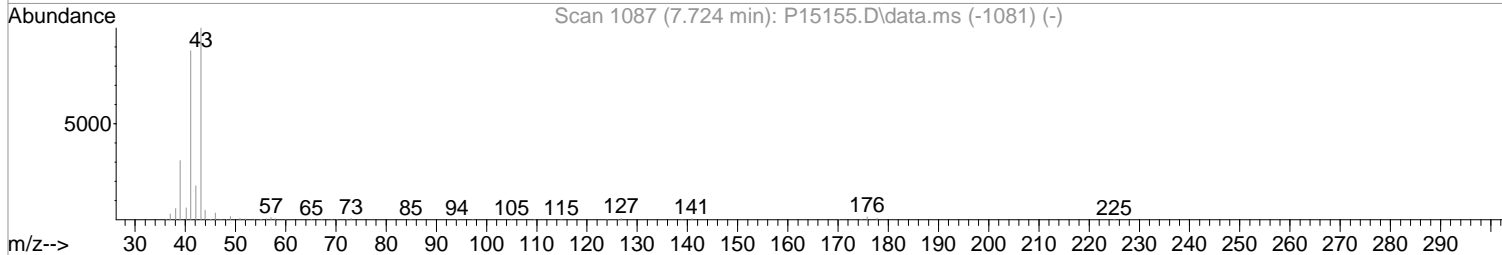
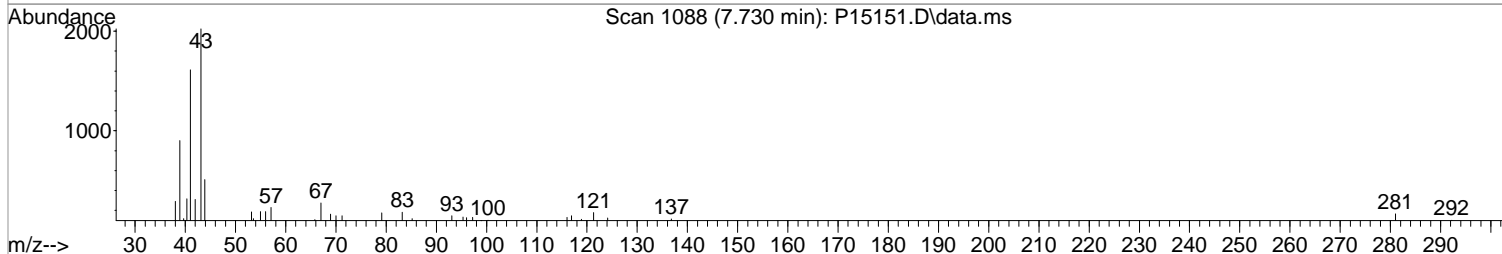
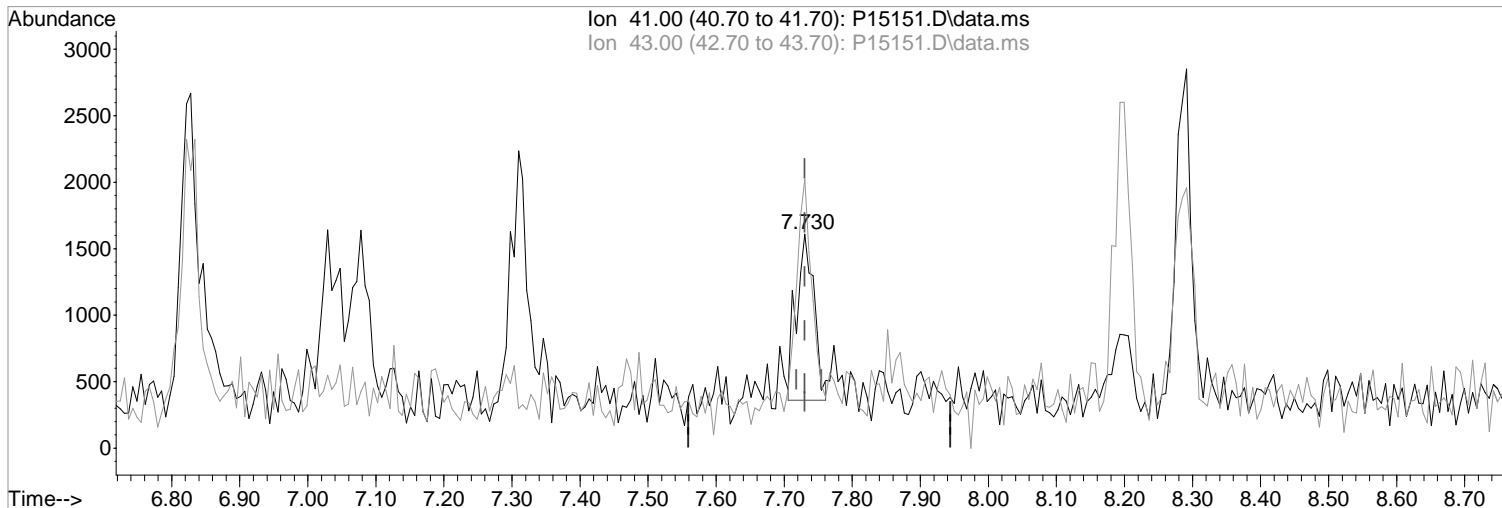




Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(61) 2-Nitropropane

Manual Integration:

7.730min (+0.000) 1.74 ppb m

After

response 2254

Split Peak

Ion Exp% Act%

01/02/18

41.00 100 100

43.00 113.70 125.71

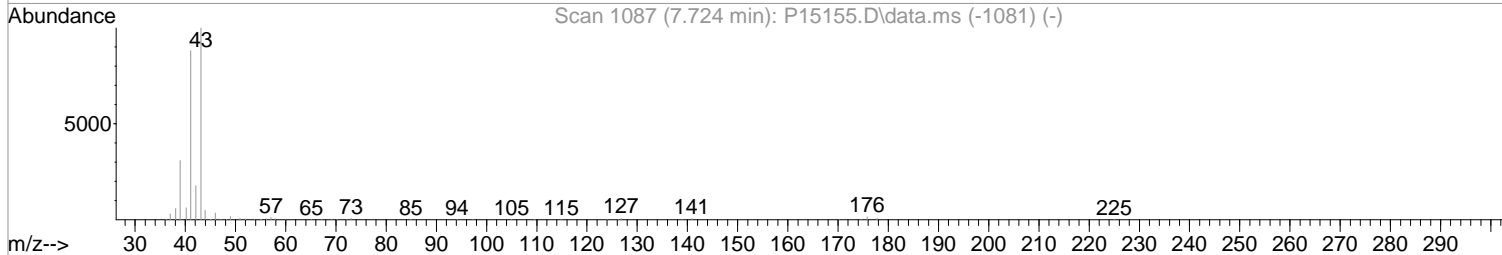
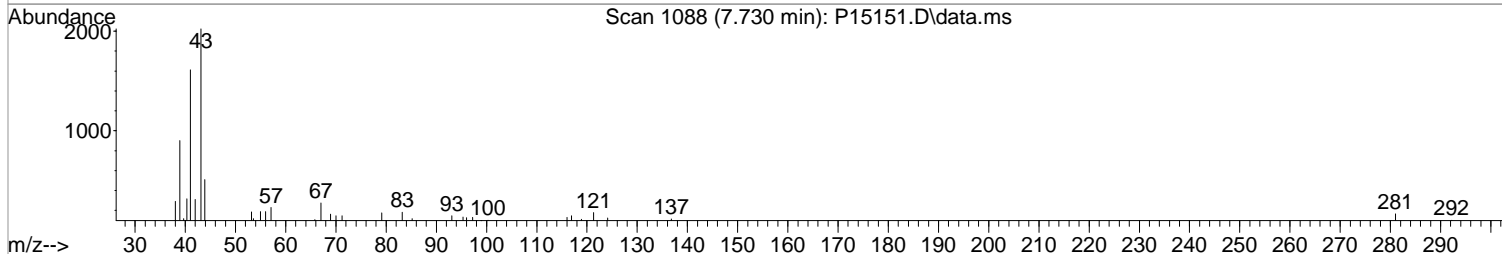
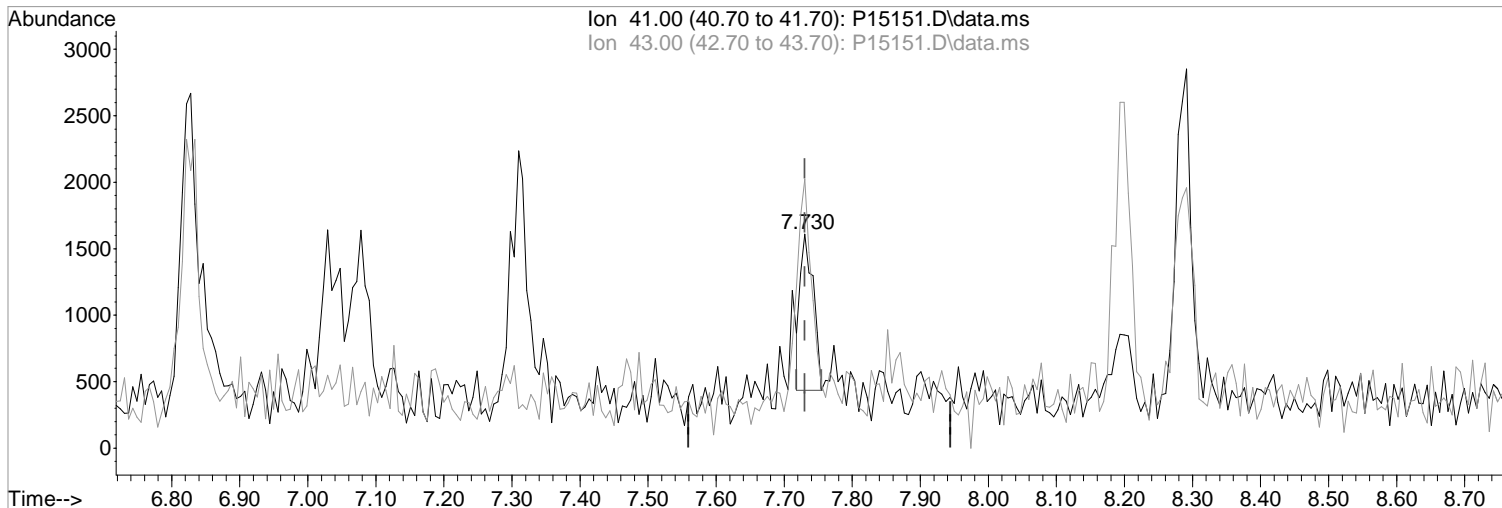
0.00 0.00 0.00

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(61) 2-Nitropropane  
7.730min (+0.000) 1.19 ppb  
response 1546

Manual Integration:  
Before

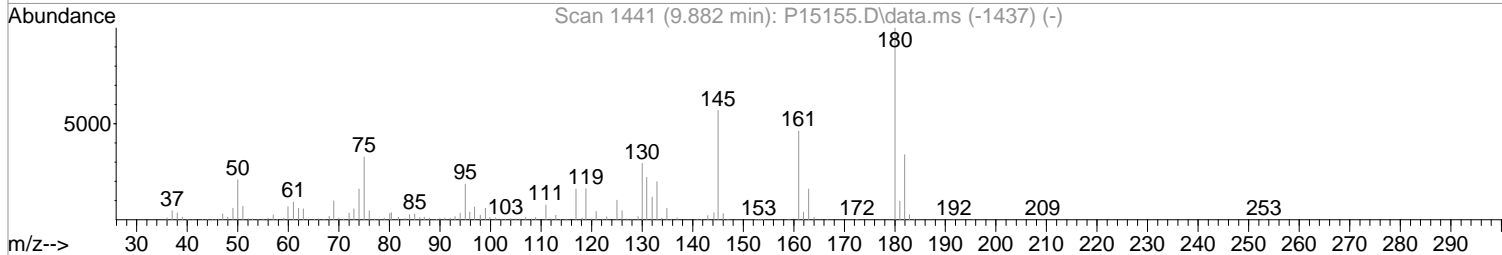
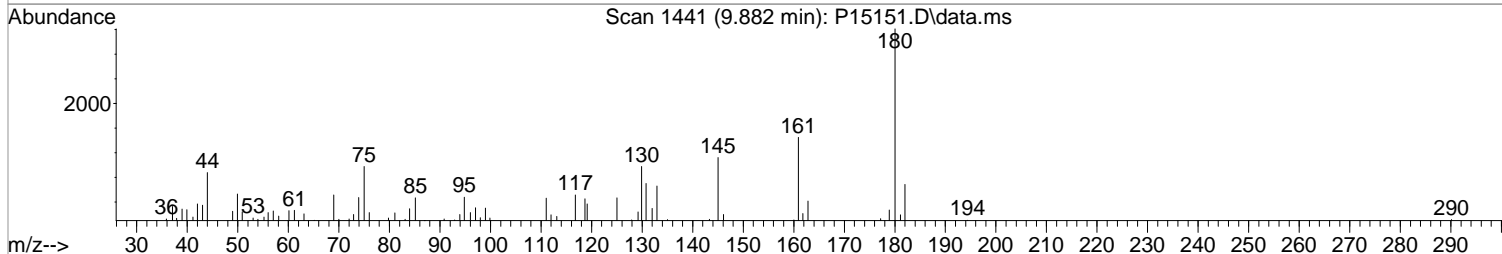
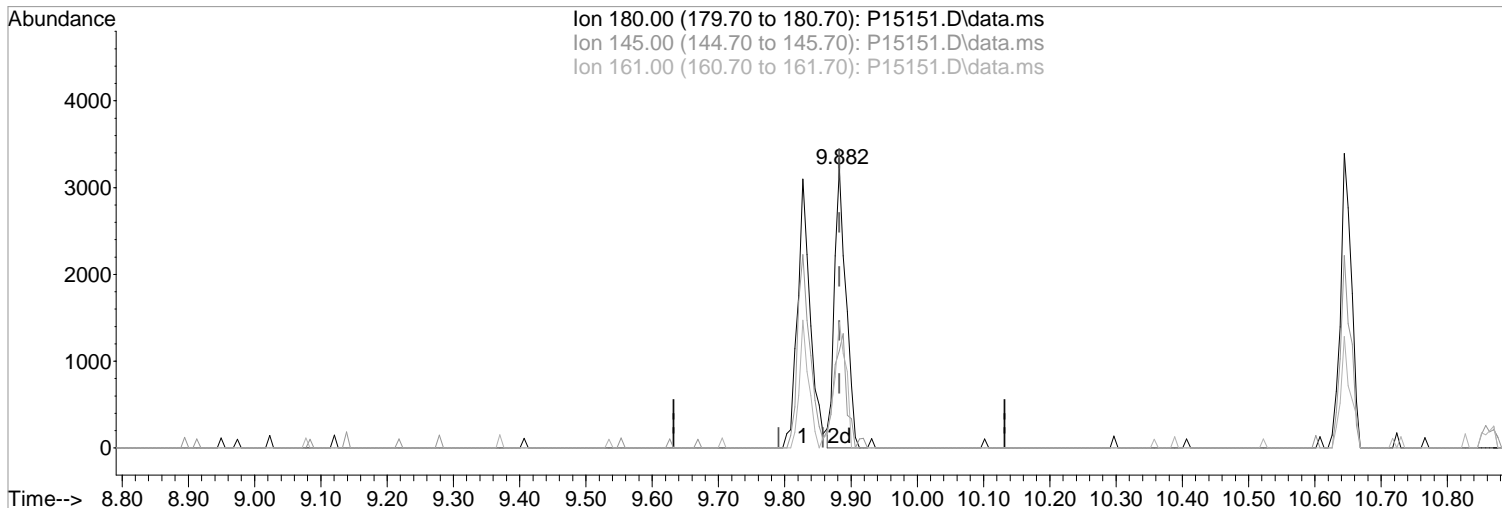
Ion	Exp%	Act%
41.00	100	100
43.00	113.70	125.71
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(80) 4-CBTF  
9.882min (+0.000) 0.96 ppb m  
response 3872

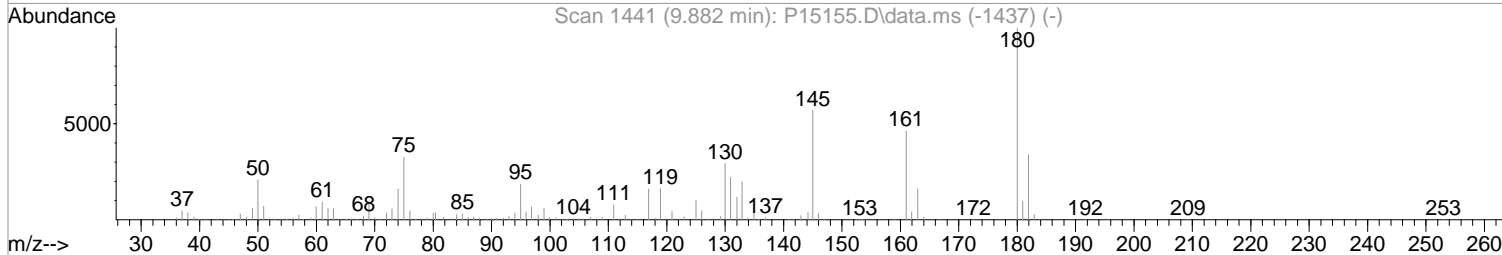
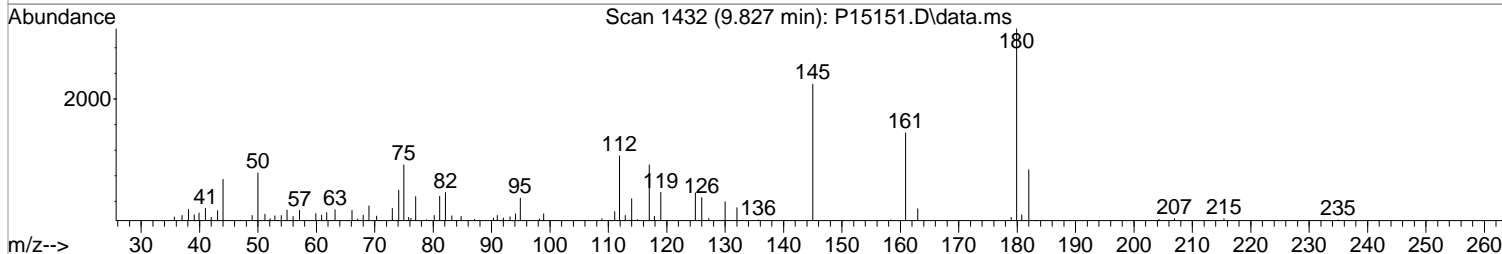
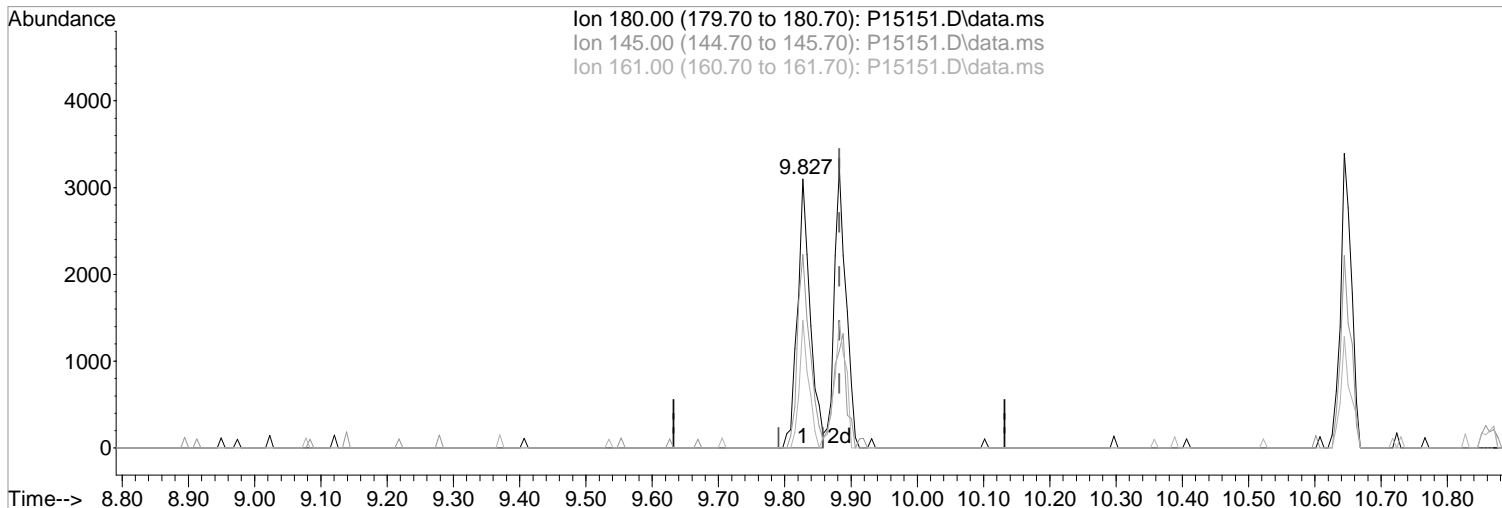
Ion	Exp%	Act%
180.00	100	100
145.00	57.00	34.96#
161.00	46.00	45.10
0.00	0.00	0.00

Manual Integration:  
After  
Wrong peak selected.  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(80) 4-CBTF

9.827min (-0.055) 1.03 ppb  
response 4151

Manual Integration:

Before

Ion	Exp%	Act%
180.00	100	100
145.00	57.00	71.93
161.00	46.00	47.47
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	287174	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	482641	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	421648	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	206696	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	140301	48.96	ppb	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.92%	
48) surr1,1,2-dichloroetha...	5.767	65	197838	50.38	ppb	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	100.76%	
65) SURR3,Toluene-d8	8.291	98	626569	48.97	ppb	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	97.94%	
70) SURR2,BFB	10.858	95	234667	47.40	ppb	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	94.80%	
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	3092	0.87	ppb		89
3) Chloromethane	1.305	50	4661	1.07	ppb		93
4) Vinyl Chloride	1.384	62	3538	0.83	ppb	#	44
5) Bromomethane	1.609	94	4038m	1.25	ppb		
6) Chloroethane	1.689	64	1872	0.70	ppb	#	34
7) Freon 21	1.835	67	5264	0.95	ppb		97
8) Trichlorofluoromethane	1.884	101	3531	0.86	ppb		80
9) Diethyl Ether	2.115	59	2717	0.96	ppb	#	60
10) Freon 123a	2.115	67	3628	1.06	ppb		95
11) Freon 123	2.170	83	3539	0.88	ppb		90
12) Acrolein	2.219	56	4284	5.05	ppb		80
13) 1,1-Dicethene	2.304	96	3164	1.07	ppb	#	79
14) Freon 113	2.311	101	2912	1.04	ppb		100
15) Acetone	2.353	43	2644	1.52	ppb		91
16) 2-Propanol	2.475	45	6693	19.92	ppb		84
17) Iodomethane	2.439	142	607	0.23	ppb		92
18) Carbon Disulfide	2.500	76	7689	0.89	ppb		99
19) Acetonitrile	2.597	40	1502	5.08	ppb	#	89
20) Allyl Chloride	2.634	76	1334	0.85	ppb	#	54
21) Methyl Acetate	2.658	43	2880	0.92	ppb		95
22) Methylene Chloride	2.743	84	3120	1.00	ppb		90
23) TBA	2.871	59	11158	19.27	ppb		87
24) Acrylonitrile	3.006	53	8428	5.01	ppb		91
25) Methyl-t-Butyl Ether	3.048	73	10288	0.97	ppb		91
26) trans-1,2-Dichloroethene	3.036	96	2908	0.95	ppb		94
28) 1,1-Dicethane	3.536	63	5387	0.97	ppb		93
29) Vinyl Acetate	3.640	86	1198m	1.32	ppb		
30) DIPE	3.658	45	11357	1.08	ppb		95
31) 2-Chloro-1,3-Butadiene	3.664	53	5319	0.99	ppb		97
32) ETBE	4.176	59	9684	0.91	ppb		95
33) 2,2-Dichloropropane	4.353	77	4489	0.91	ppb		88
34) cis-1,2-Dichloroethene	4.377	96	3133m	0.86	ppb		
36) Propionitrile	4.511	54	4096	5.73	ppb		66
37) Bromochloromethane	4.761	130	2044m	1.02	ppb		
38) Methacrylonitrile	4.761	67	1485m	0.80	ppb		
40) Chloroform	4.944	83	5941	0.99	ppb		96
41) 1,1,1-Trichloroethane	5.231	97	4781	1.01	ppb	#	83
42) TAME	6.090	73	10018	0.97	ppb		87
44) Cyclohexane	5.334	41	3829m	1.22	ppb		

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Carbontetrachloride	5.511	117	3082	0.85	ppb	# 81
47) 1,1-Dichloropropene	5.536	75	3874	0.91	ppb	83
49) Benzene	5.840	78	11319	0.90	ppb	86
50) 1,2-Dichloroethane	5.889	62	4380	0.95	ppb	91
51) Iso-Butyl Alcohol	5.846	43	5135	20.08	ppb	85
52) n-Heptane	6.334	43	4453	1.02	ppb	92
53) 1-Butanol	6.828	56	6937	41.00	ppb	85
54) Trichloroethene	6.797	130	3367	1.04	ppb	94
55) Methylcyclohexane	7.035	55	3617	0.86	ppb	88
56) 1,2-Diclpropane	7.072	63	3310	0.98	ppb	80
57) Dibromomethane	7.212	93	2049	1.02	ppb	# 70
58) 1,4-Dioxane	7.291	88	1262m	19.01	ppb	
59) Methyl Methacrylate	7.303	69	3248m	1.05	ppb	
60) Bromodichloromethane	7.444	83	4463	1.05	ppb	97
61) 2-Nitropropane	7.730	41	2254m	1.74	ppb	
63) cis-1,3-Dichloropropene	7.998	75	4467	0.84	ppb	80
64) 4-Methyl-2-pentanone	8.194	43	4242	1.03	ppb	86
66) Toluene	8.364	91	12447	0.91	ppb	94
67) trans-1,3-Dichloropropene	8.632	75	4602	0.92	ppb	93
68) Ethyl Methacrylate	8.773	69	5274	1.05	ppb	82
69) 1,1,2-Trichloroethane	8.815	97	3198	1.03	ppb	92
72) Tetrachloroethene	8.962	164	2460	1.06	ppb	# 79
73) 2-Hexanone	9.114	43	2578	0.83	ppb	# 69
74) 1,3-Dichloropropane	8.992	76	4841	0.89	ppb	# 80
75) Dibromochloromethane	9.218	129	2631	0.93	ppb	96
76) N-Butyl Acetate	9.273	43	4723	0.81	ppb	96
77) 1,2-Dibromoethane	9.315	107	2980	0.99	ppb	83
78) Chlorobenzene	9.809	112	7570	0.92	ppb	87
79) 3-CBTF	9.827	180	4151	0.94	ppb	# 91
80) 4-CBTF	9.882	180	3872m	0.96	ppb	
81) 1,1,1,2-Tetrachloroethane	9.894	131	2802	0.95	ppb	93
82) Ethylbenzene	9.931	106	4390	0.96	ppb	# 87
83) (m+p)Xylene	10.041	106	9803	1.78	ppb	92
84) o-Xylene	10.400	106	5138	0.93	ppb	98
85) Styrene	10.413	104	8086	0.87	ppb	88
87) Bromoform	10.565	173	1755	0.97	ppb	84
88) 2-CBTF	10.644	180	3906	0.95	ppb	90
89) Isopropylbenzene	10.736	105	13170	0.97	ppb	93
90) Cyclohexanone	10.797	55	20423	19.77	ppb	95
91) trans-1,4-Dichloro-2-B...	11.053	53	978	0.91	ppb	# 82
92) 1,1,2,2-Tetrachloroethane	10.992	83	4102	1.00	ppb	92
93) Bromobenzene	10.980	156	3547	1.07	ppb	# 71
94) 1,2,3-Trichloropropane	11.022	110	1416	1.06	ppb	93
95) n-Propylbenzene	11.095	91	15294	0.97	ppb	98
96) 2-Chlorotoluene	11.156	91	9992	1.02	ppb	95
97) 3-Chlorotoluene	11.211	91	9846	0.95	ppb	97
98) 4-Chlorotoluene	11.248	91	10775	0.95	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	10889	0.96	ppb	89
100) tert-Butylbenzene	11.516	119	8854	0.90	ppb	90
101) 1,2,4-Trimethylbenzene	11.559	105	9946	0.87	ppb	92
102) 3,4-DCBTF	11.620	214	2773	0.85	ppb	# 93
103) sec-Butylbenzene	11.699	105	13514	0.94	ppb	98
104) p-Isopropyltoluene	11.821	119	10672	0.88	ppb	93
105) 1,3-Dclbenz	11.784	146	5907	0.93	ppb	86
106) 1,4-Dclbenz	11.857	146	6523	0.98	ppb	89
107) 2,4-DCBTF	11.912	214	3106	1.02	ppb	# 90

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

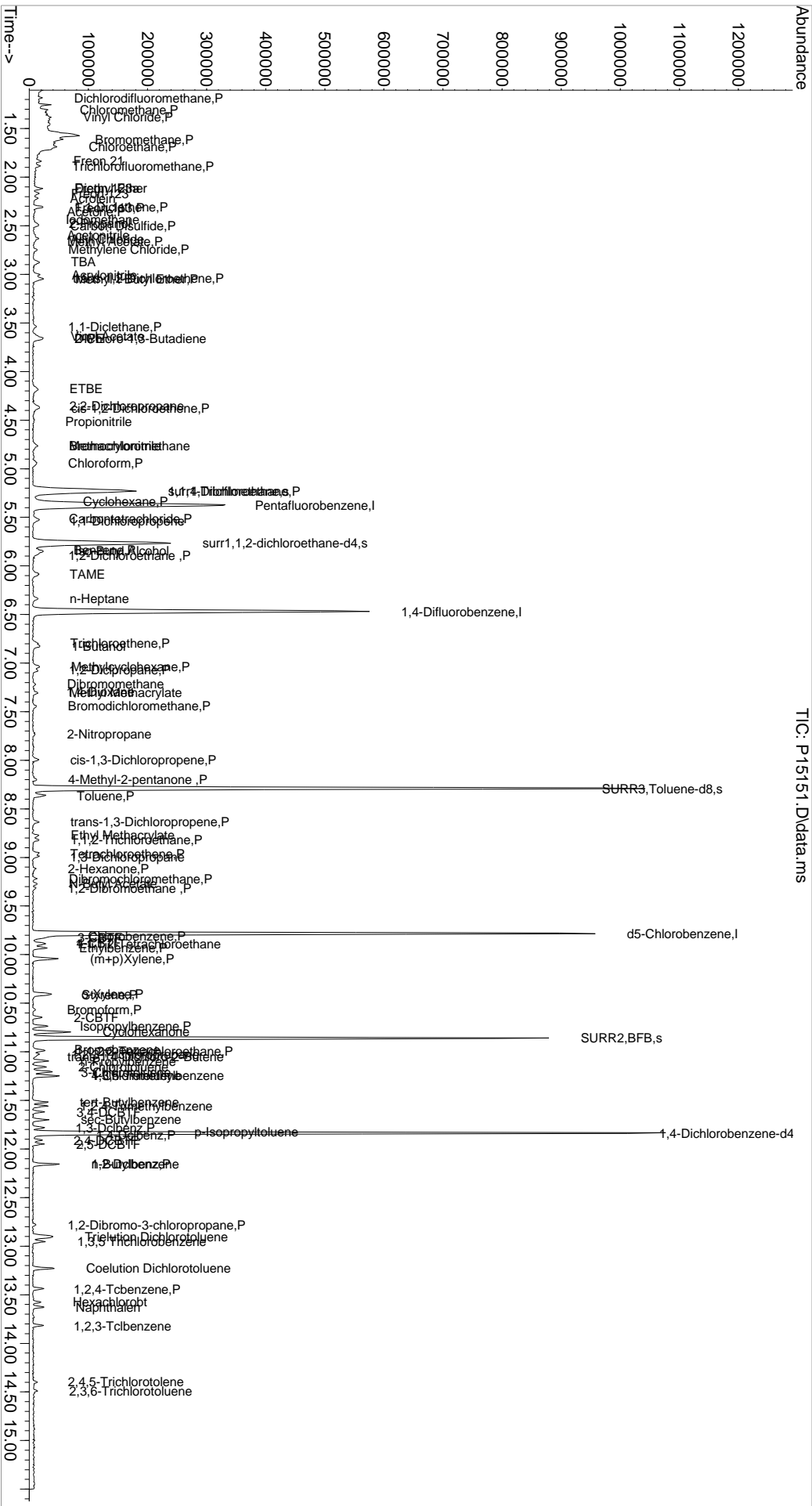
Compound	R.T.	QIon	Response	Conc	Units	Dev	(Min)
108) 2,5-DCBTF	11.949	214	2824	0.87	ppb	#	81
109) n-Butylbenzene	12.156	91	10165	0.90	ppb		96
110) 1,2-Dclbenz	12.156	146	5863	0.93	ppb		84
111) 1,2-Dibromo-3-chloropr...	12.778	157	1271	1.23	ppb		81
112) Trielution Dichlorotol...	12.900	125	16807	2.71	ppb		92
113) 1,3,5 Trichlorobenzene	12.955	180	4049	0.82	ppb	#	80
114) Coelution Dichlorotoluene	13.229	125	11563	1.76	ppb		97
115) 1,2,4-Tcbenzene	13.443	180	3678	0.80	ppb		87
116) Hexachlorobt	13.577	225	1668	0.78	ppb		91
117) Naphthalen	13.625	128	10607	0.84	ppb		96
118) 1,2,3-Tclbenzene	13.820	180	3810	0.86	ppb		90
119) 2,4,5-Trichlorotolene	14.394	159	1480	0.55	ppb	#	76
120) 2,3,6-Trichlorotoluene	14.491	159	1149	0.47	ppb	#	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Conc : 8260 WATER ICAL  
 PALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA-12

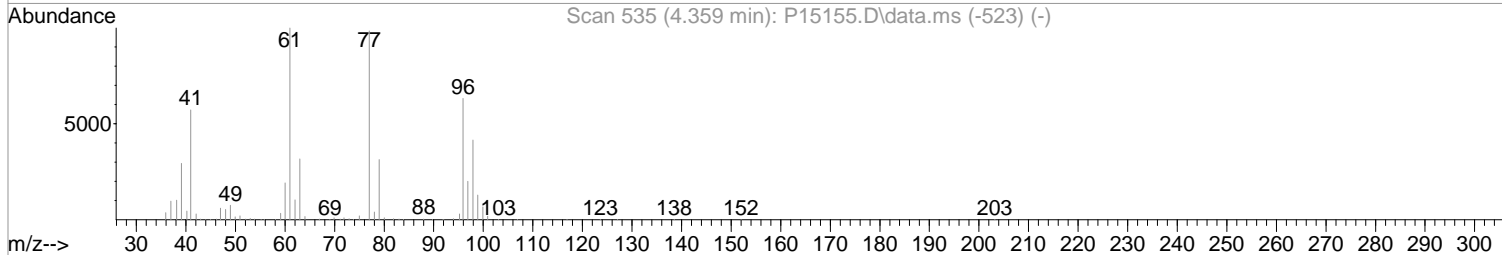
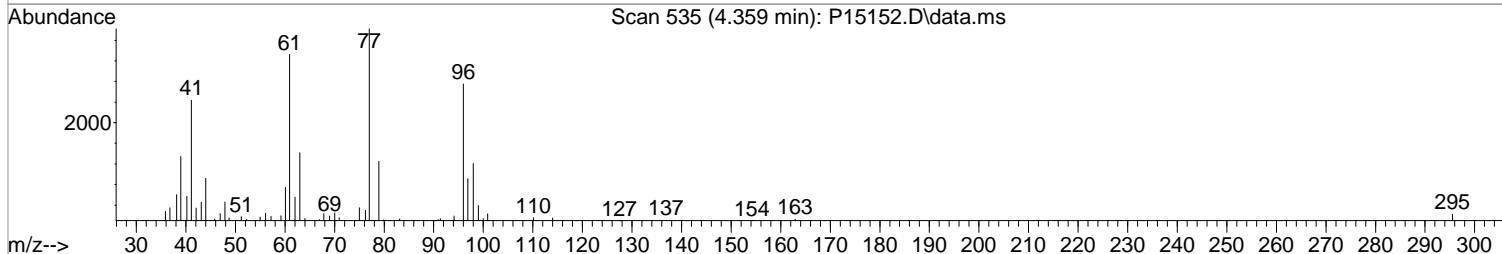
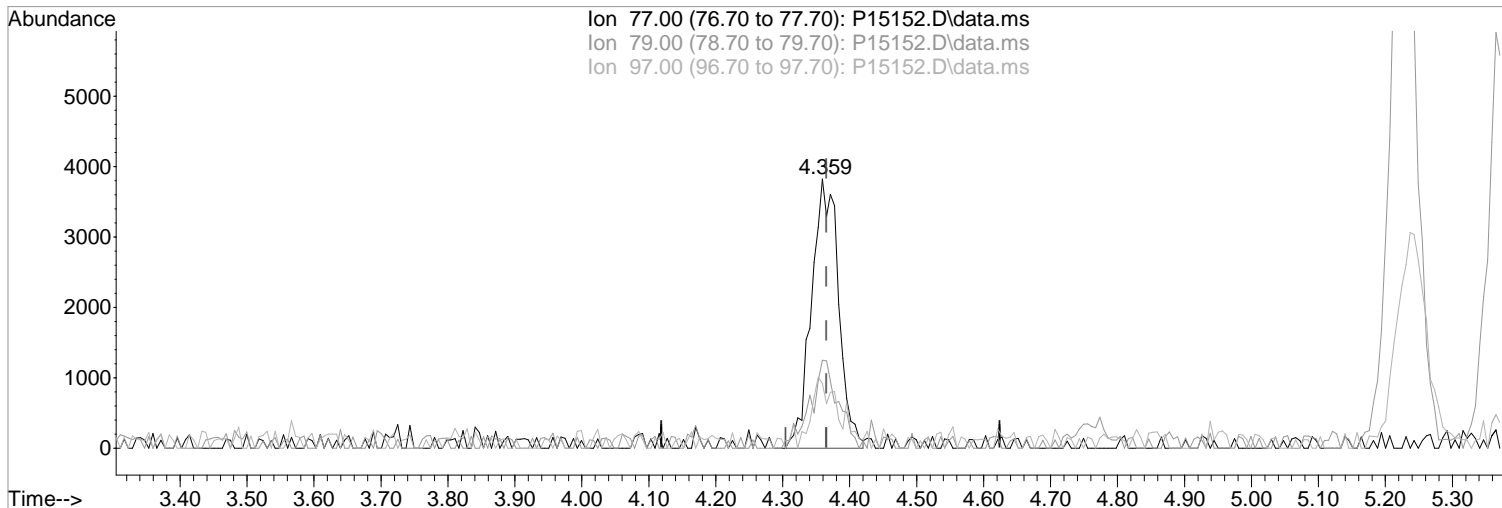
Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15152.D\data.ms

(33) 2,2-Dichloropropane  
4.359min (-0.006) 2.15 ppb m  
response 10714

Manual Integration:

After

Split Peak

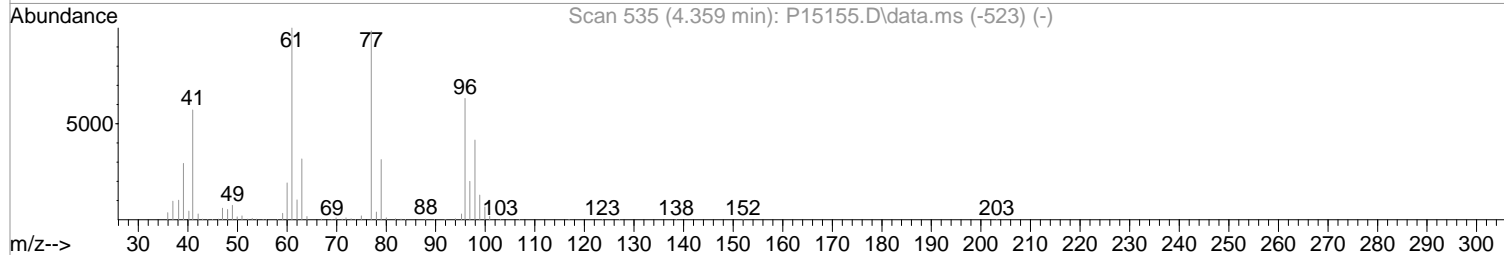
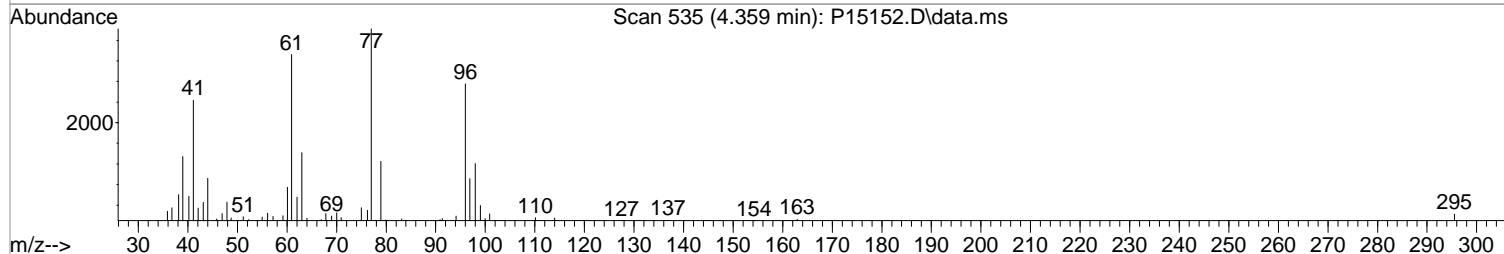
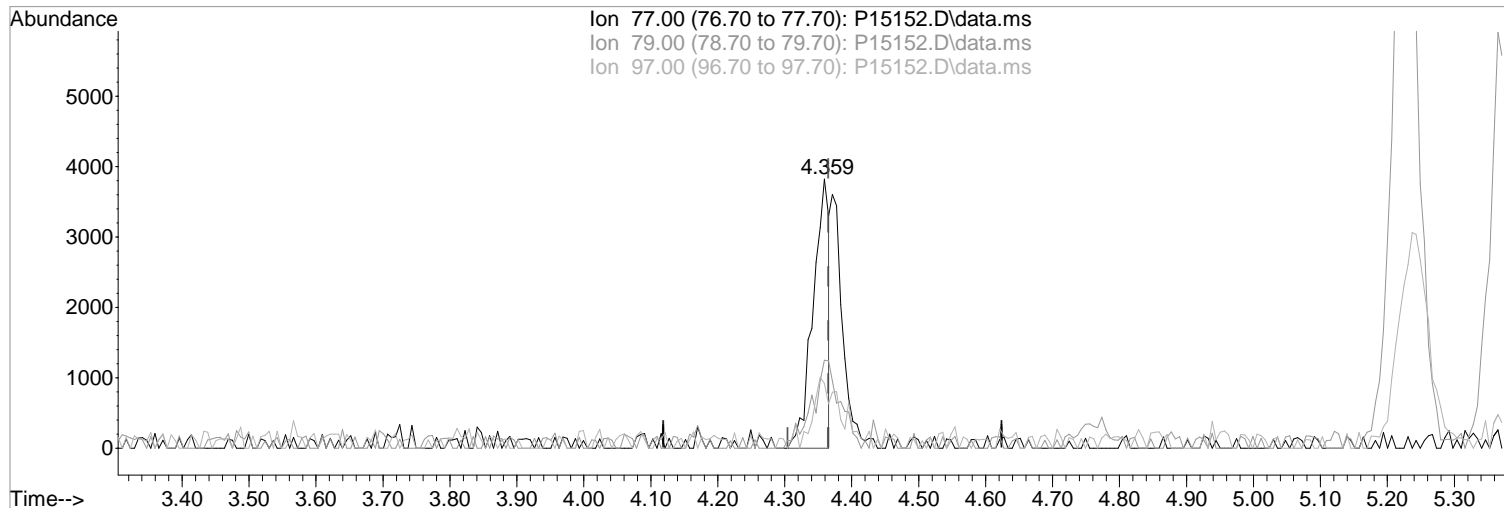
01/02/18

Ion	Exp%	Act%
77.00	100	100
79.00	32.10	32.71
97.00	20.60	23.93
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15152.D\data.ms

(33) 2,2-Dichloropropane  
4.359min (-0.006) 1.27 ppb  
response 6313

Manual Integration:  
Before

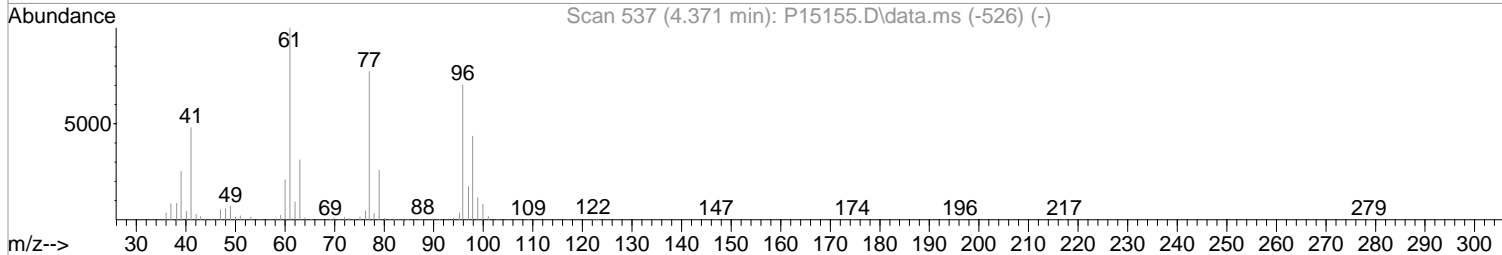
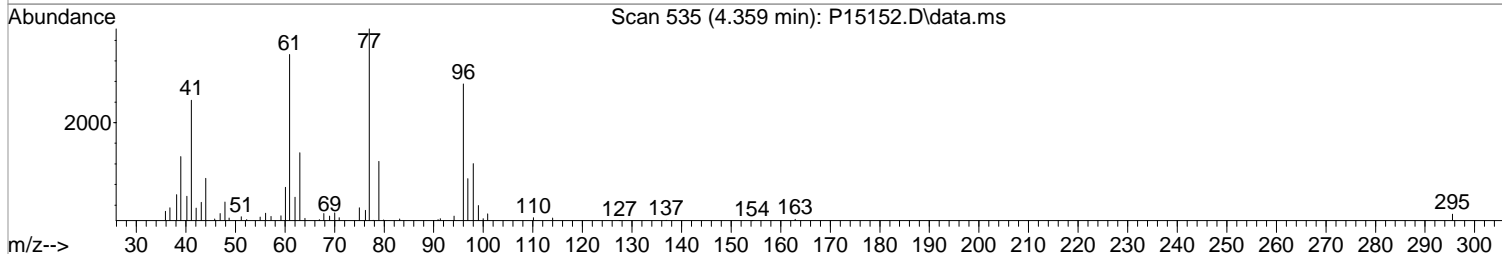
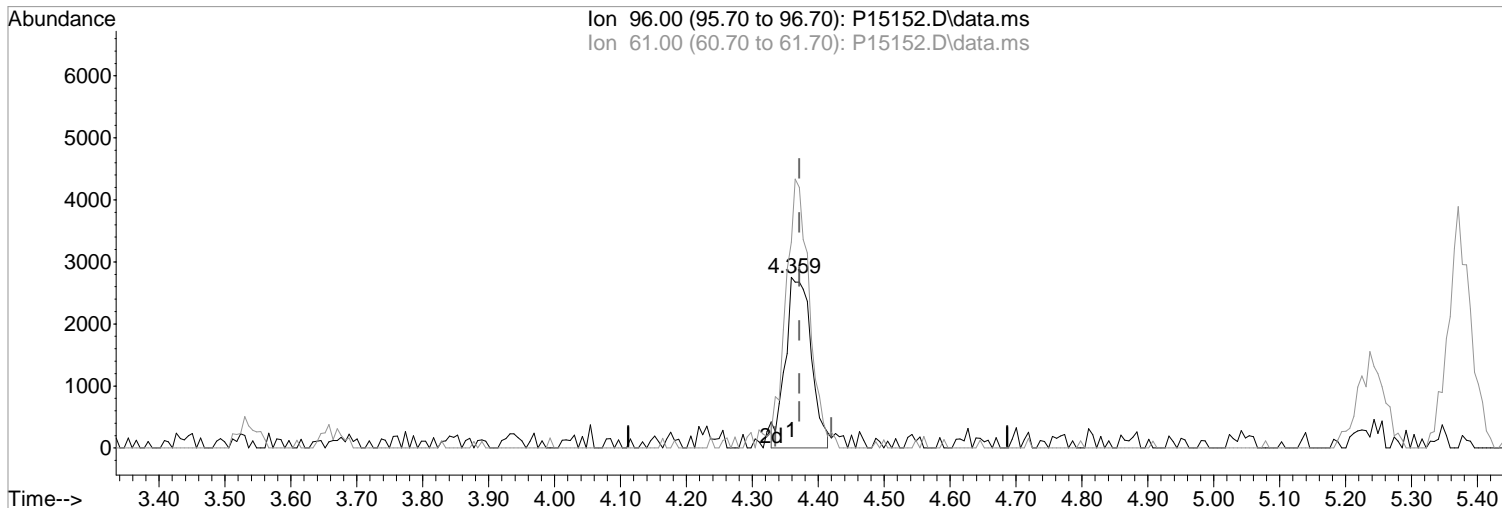
Ion	Exp%	Act%
77.00	100	100
79.00	32.10	32.71
97.00	20.60	23.93
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.359min (-0.012) 2.01 ppb m  
response 7407

Manual Integration:

After

Poor integration.

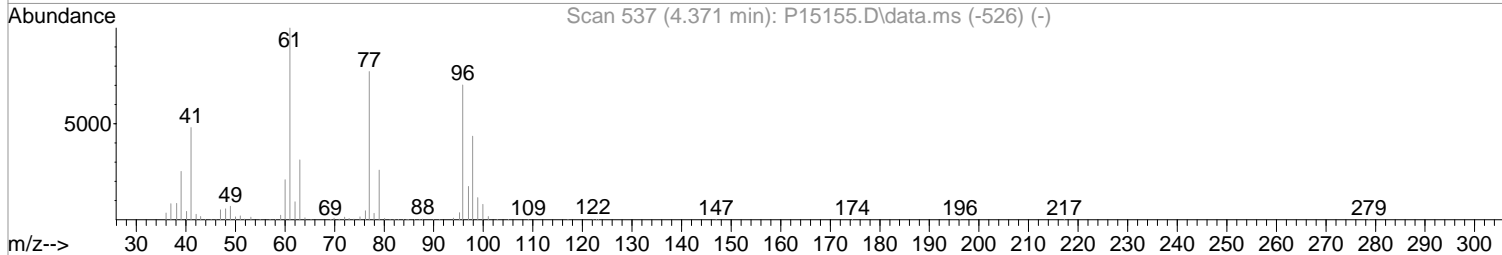
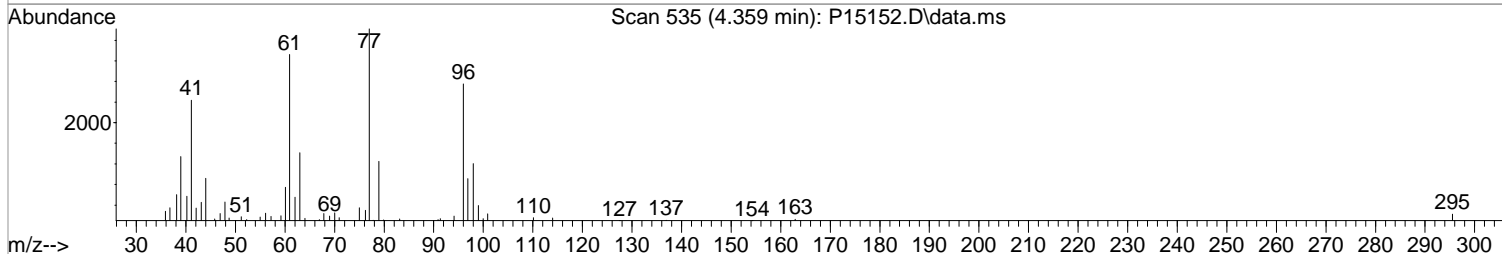
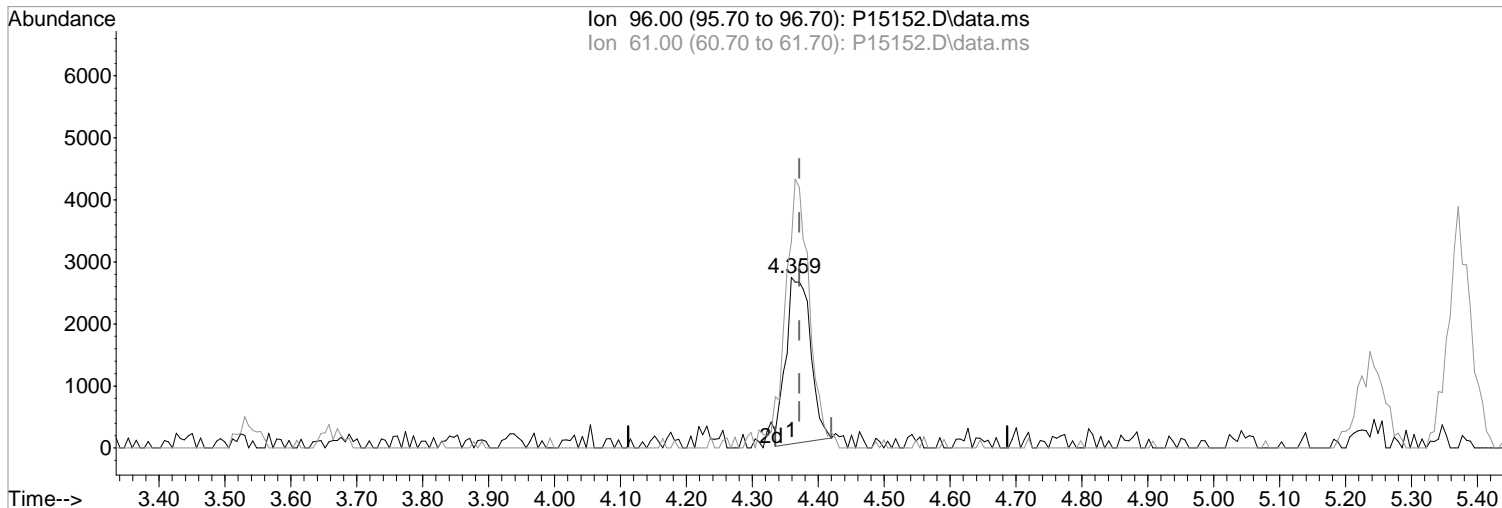
Ion	Exp%	Act%
96.00	100	100
61.00	142.80	120.72#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

Manual Integration:

4.359min (-0.012) 1.87 ppb

Before

response 6877

Ion Exp% Act%

01/02/18

96.00 100 100

61.00 142.80 120.72#

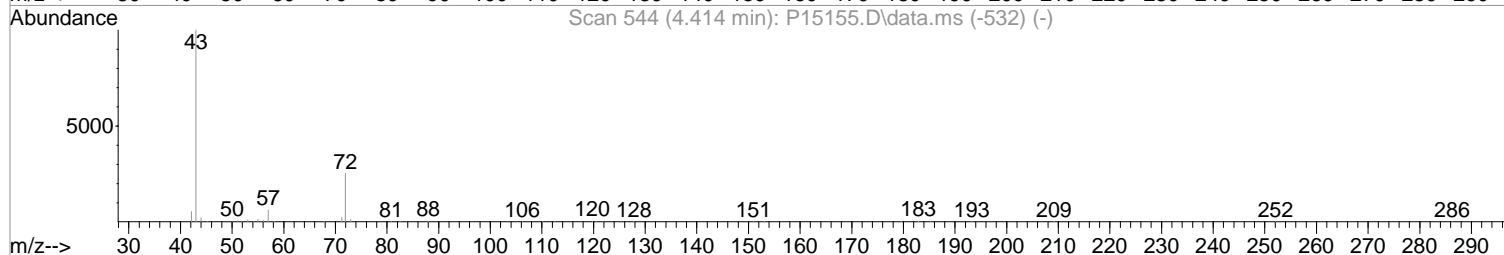
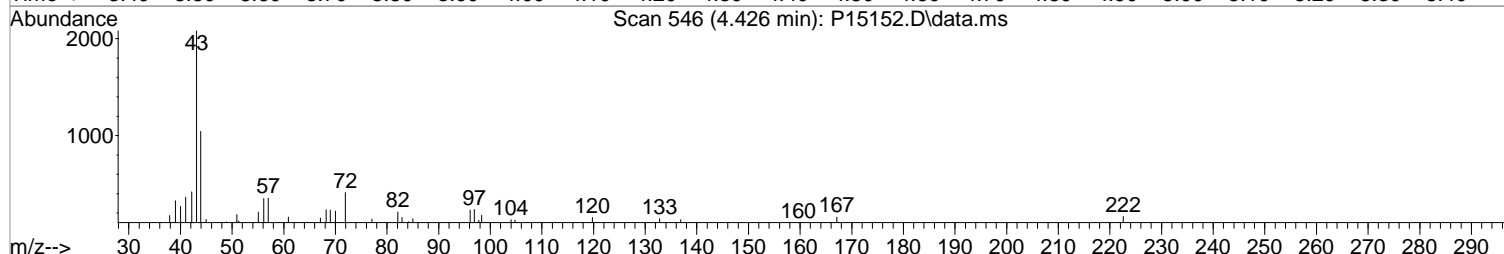
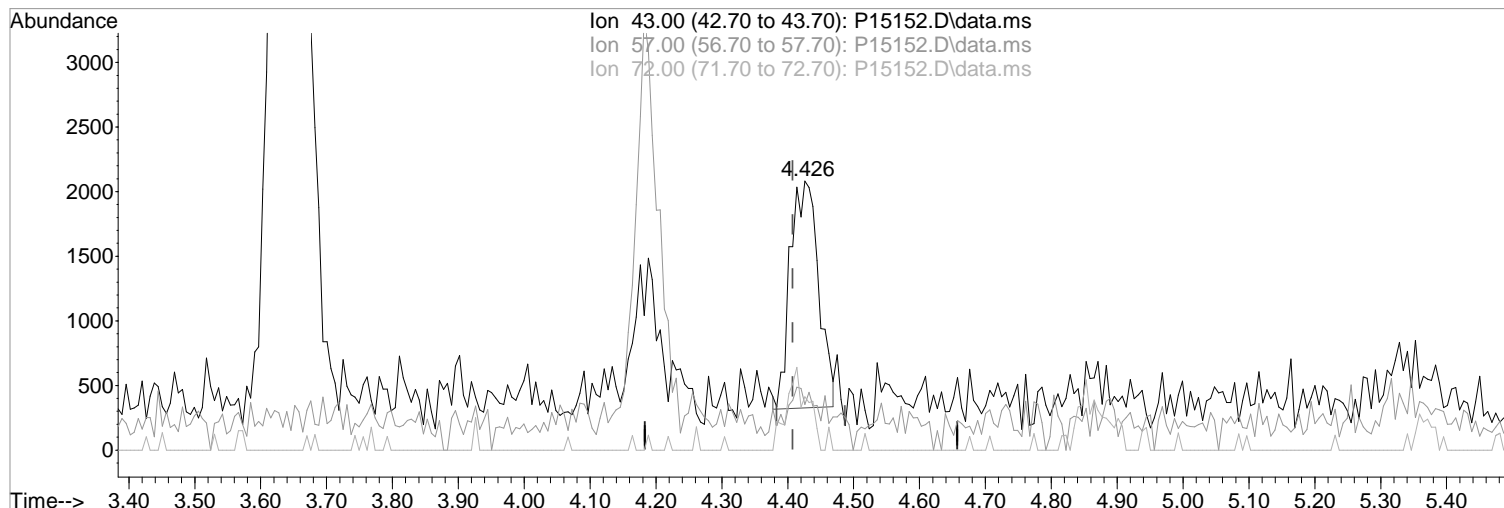
0.00 0.00 0.00

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(35) 2-Butanone (P)

4.426min (+0.018) 2.34 ppb m

response 5215

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	17.00
72.00	26.10	19.84
0.00	0.00	0.00

Manual Integration:

After

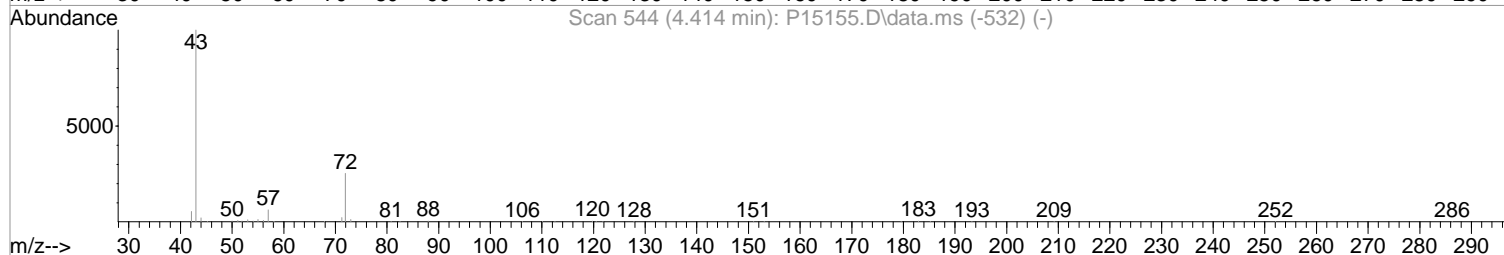
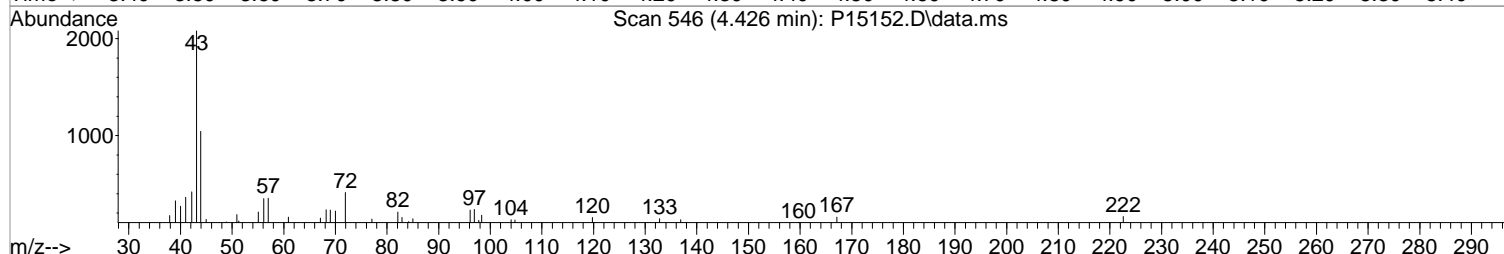
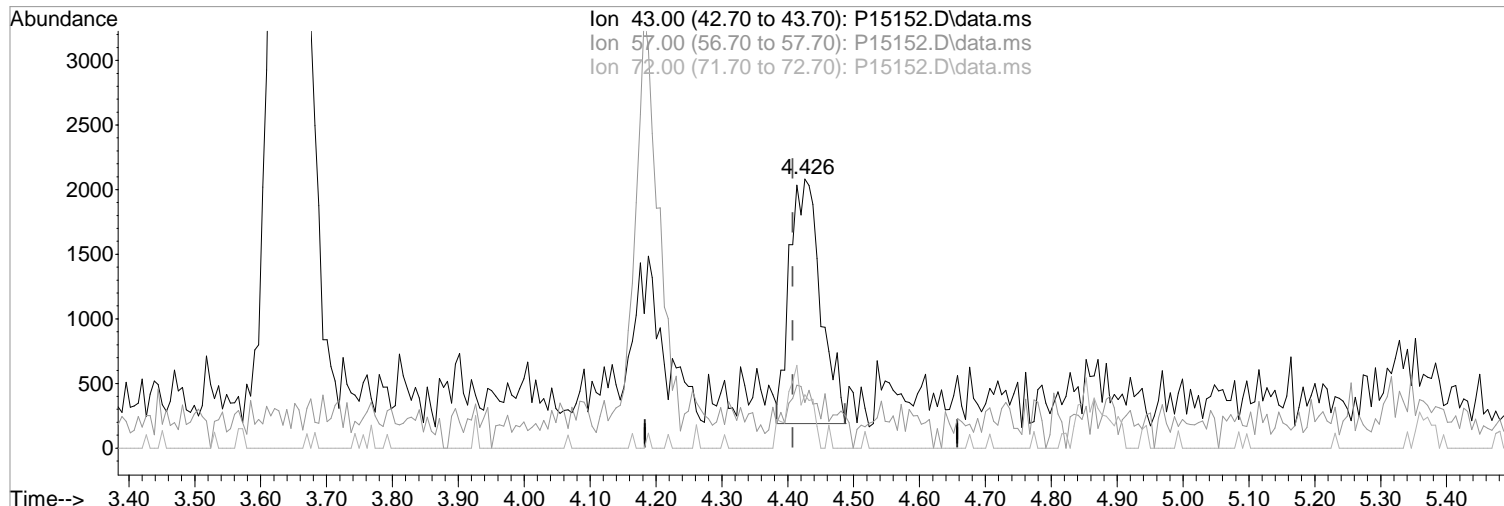
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(35) 2-Butanone (P)

4.426min (+0.018) 2.77 ppb

response 6181

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	17.00
72.00	26.10	19.84
0.00	0.00	0.00

Manual Integration:

Before

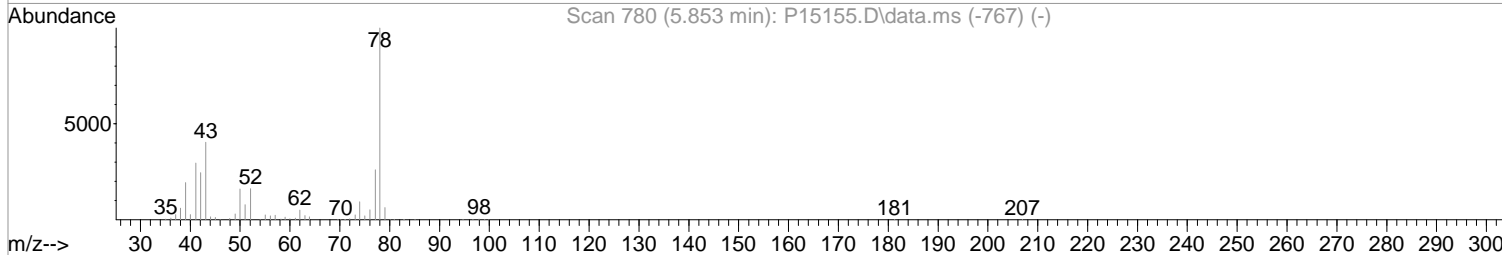
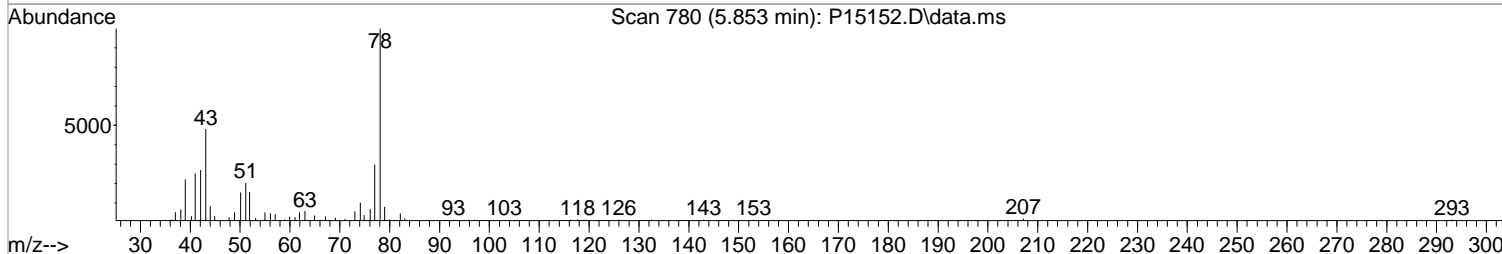
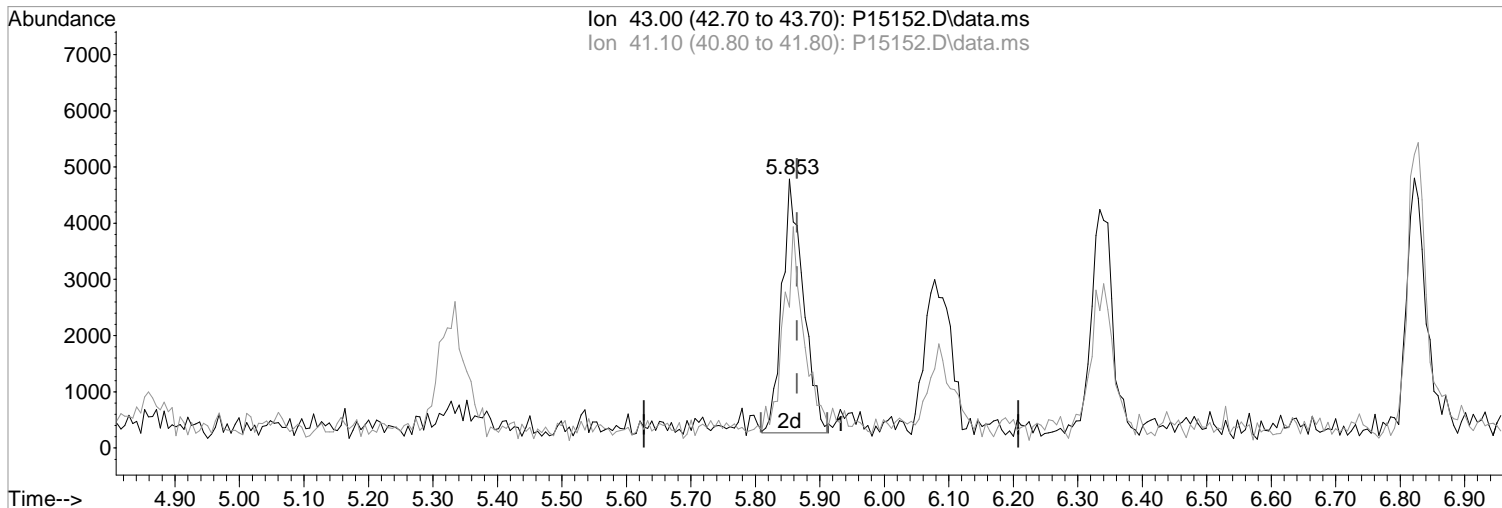
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(51) Iso-Butyl Alcohol  
5.853min (-0.012) 41.65 ppb m  
response 10416

Manual Integration:

After

Peak not found.

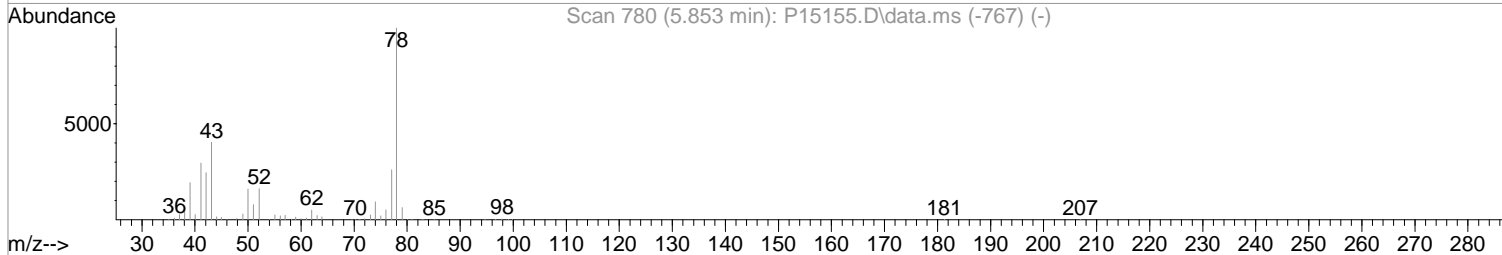
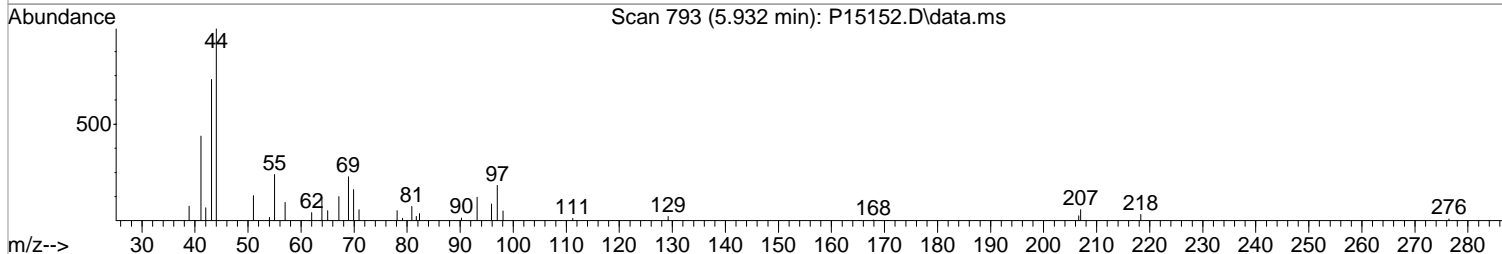
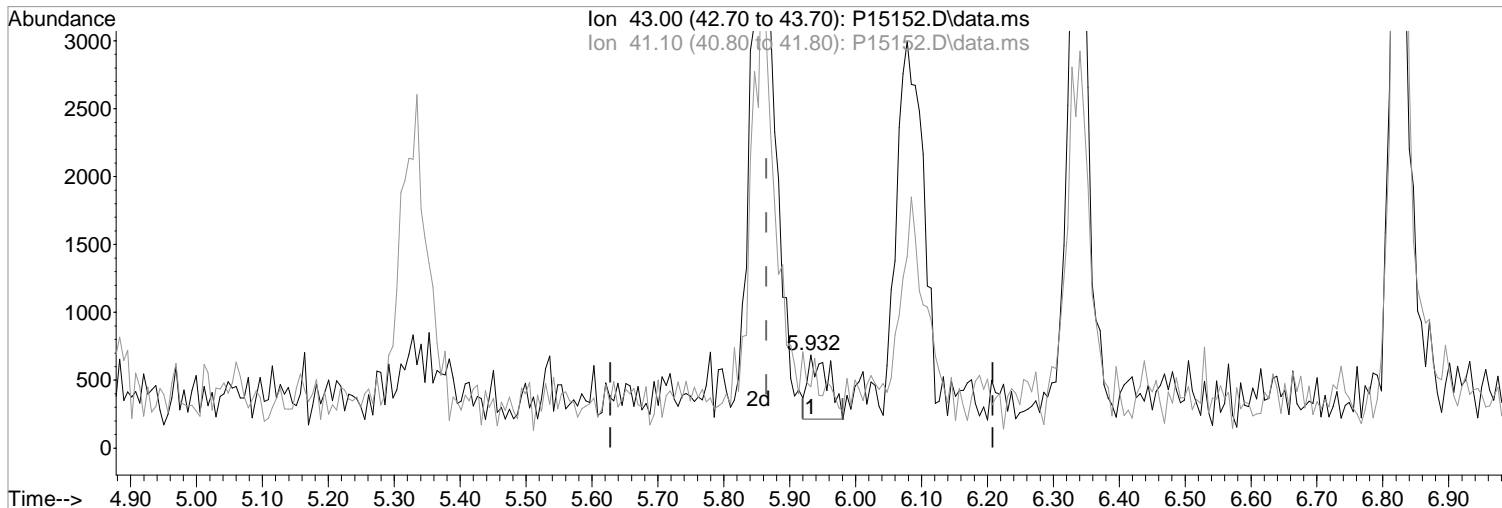
01/02/18

Ion	Exp%	Act%
43.00	100	100
41.10	73.30	52.44#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15152.D\data.ms

(51) Iso-Butyl Alcohol  
5.932min (+0.067) 4.12 ppb  
response 1031

Manual Integration:

Before

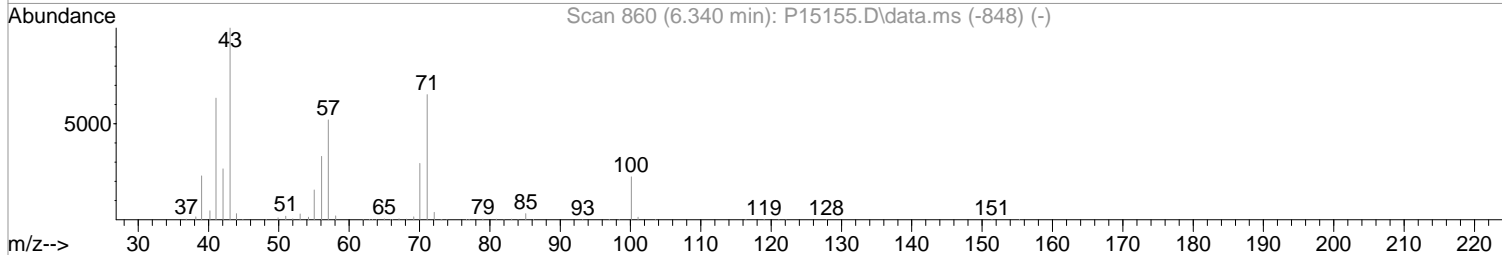
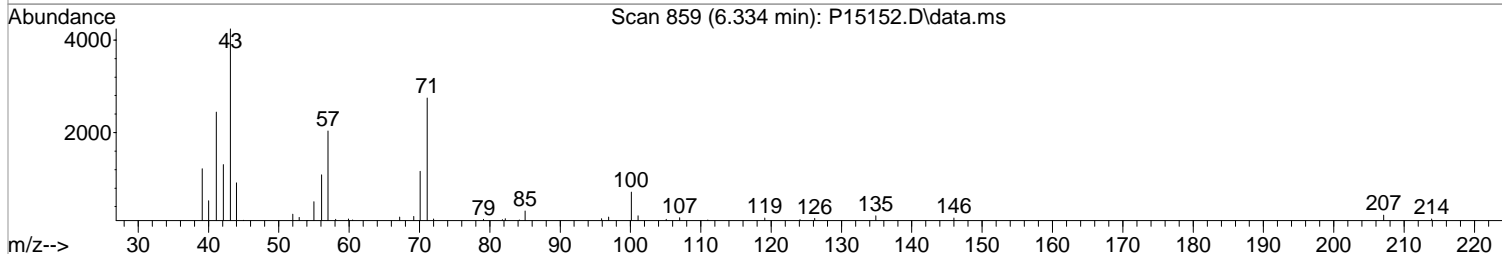
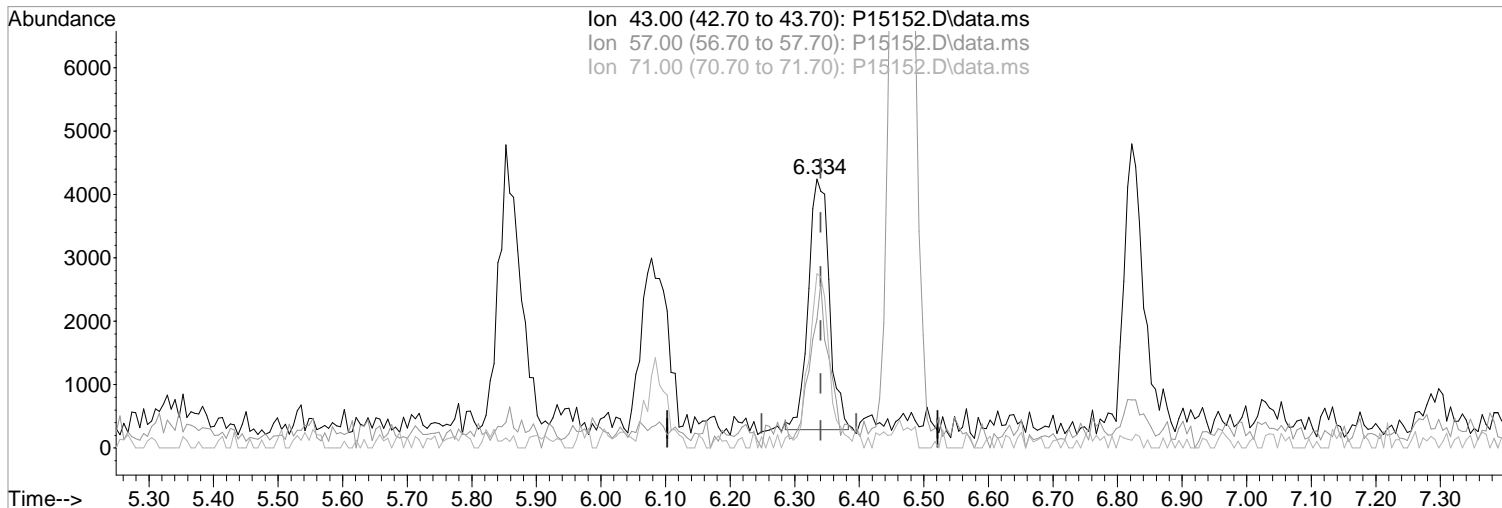
Ion	Exp%	Act%
43.00	100	100
41.10	73.30	65.84
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(52) n-Heptane  
6.334min (-0.006) 2.08 ppb m  
response 8868

Manual Integration:

After

Poor integration.

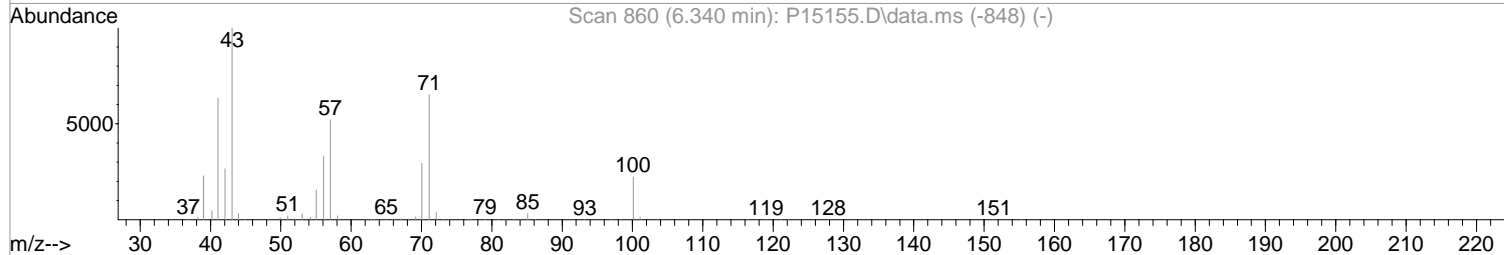
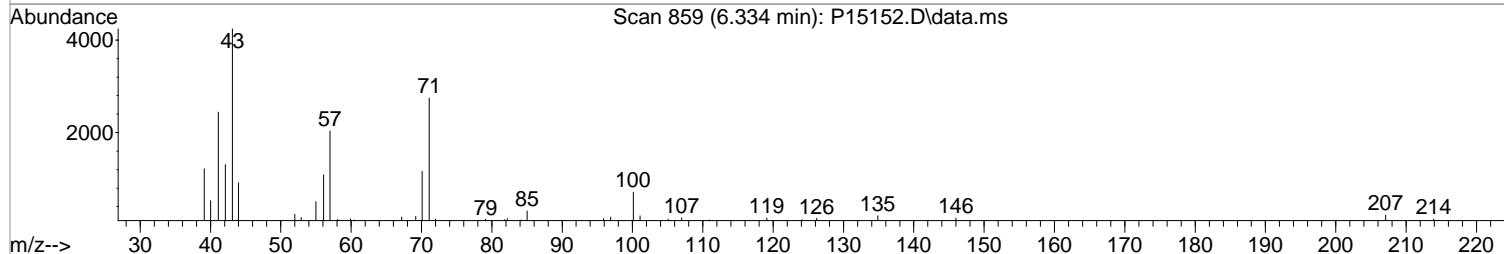
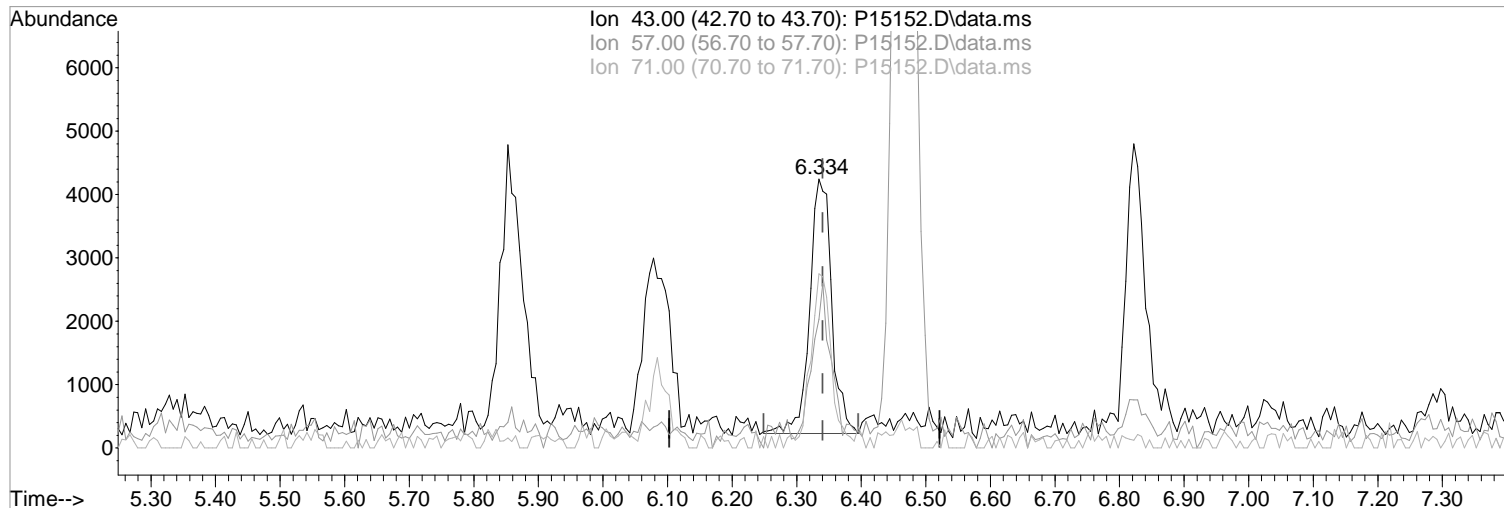
01/02/18

Ion	Exp%	Act%
43.00	100	100
57.00	52.10	47.87
71.00	65.30	64.81
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(52) n-Heptane  
6.334min (-0.006) 2.21 ppb  
response 9450

Manual Integration:  
Before

Ion	Exp%	Act%
43.00	100	100
57.00	52.10	47.87
71.00	65.30	64.81
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.371	168	290921	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	471936	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	416493	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	202842	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	140691	50.21	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.42%		
48) surr1,1,2-dichloroetha...	5.767	65	192694	50.18	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.36%		
65) SURR3,Toluene-d8	8.291	98	616679	49.29	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.58%		
70) SURR2,BFB	10.858	95	234627	48.47	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.94%		
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	6164	1.72	ppb		95
3) Chloromethane	1.305	50	9252	2.09	ppb		87
4) Vinyl Chloride	1.384	62	8466	1.96	ppb		76
5) Bromomethane	1.610	94	7983	2.44	ppb		92
6) Chloroethane	1.683	64	6348	2.36	ppb		81
7) Freon 21	1.835	67	10821	1.93	ppb		88
8) Trichlorofluoromethane	1.884	101	8938	2.15	ppb		92
9) Diethyl Ether	2.116	59	6309	2.19	ppb		90
10) Freon 123a	2.116	67	6930	1.99	ppb		92
11) Freon 123	2.170	83	7698	1.89	ppb		94
12) Acrolein	2.213	56	8734	10.15	ppb		78
13) 1,1-Dicethene	2.305	96	5689	1.90	ppb		94
14) Freon 113	2.311	101	5879	2.08	ppb		80
15) Acetone	2.347	43	4395	2.49	ppb		93
16) 2-Propanol	2.475	45	14316	42.06	ppb		97
17) Iodomethane	2.445	142	891	0.33	ppb		100
18) Carbon Disulfide	2.494	76	17215	1.98	ppb		99
19) Acetonitrile	2.603	40	2940	9.82	ppb		95
20) Allyl Chloride	2.634	76	3647	2.29	ppb	#	86
21) Methyl Acetate	2.658	43	6838	2.16	ppb		93
22) Methylene Chloride	2.743	84	6734	2.14	ppb		93
23) TBA	2.872	59	24620	41.97	ppb		96
24) Acrylonitrile	3.000	53	17097	10.04	ppb		96
25) Methyl-t-Butyl Ether	3.048	73	22969	2.14	ppb		96
26) trans-1,2-Dichloroethene	3.042	96	6244	2.00	ppb		99
28) 1,1-Dicethane	3.530	63	11380	2.03	ppb		96
29) Vinyl Acetate	3.627	86	1385	1.51	ppb	#	46
30) DIPE	3.664	45	21975	2.06	ppb		90
31) 2-Chloro-1,3-Butadiene	3.658	53	10830	2.00	ppb		90
32) ETBE	4.194	59	22402	2.08	ppb		100
33) 2,2-Dichloropropane	4.359	77	10714m	2.15	ppb		
34) cis-1,2-Dichloroethene	4.359	96	7407m	2.01	ppb		
35) 2-Butanone	4.426	43	5215m	2.34	ppb		
36) Propionitrile	4.493	54	7461	10.31	ppb		75
37) Bromochloromethane	4.767	130	4174	2.06	ppb		88
38) Methacrylonitrile	4.767	67	3561	1.90	ppb		97
39) Tetrahydrofuran	4.871	42	2476	1.90	ppb		69
40) Chloroform	4.938	83	12891	2.12	ppb		94
41) 1,1,1-Trichloroethane	5.237	97	9664	2.02	ppb		94

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	21979	2.09	ppb	94
44) Cyclohexane	5.334	41	6707	2.18	ppb	99
46) Carbontetrachloride	5.517	117	7282	2.06	ppb	83
47) 1,1-Dichloropropene	5.530	75	9048	2.18	ppb	85
49) Benzene	5.847	78	25719	2.09	ppb	98
50) 1,2-Dichloroethane	5.883	62	9372	2.07	ppb	96
51) Iso-Butyl Alcohol	5.853	43	10416m	41.65	ppb	
52) n-Heptane	6.334	43	8868m	2.08	ppb	
53) 1-Butanol	6.828	56	17334	104.77	ppb	94
54) Trichloroethene	6.798	130	5834	1.85	ppb	# 71
55) Methylcyclohexane	7.035	55	8960	2.18	ppb	# 80
56) 1,2-Diclpropane	7.072	63	7144	2.17	ppb	93
57) Dibromomethane	7.218	93	4230	2.15	ppb	98
58) 1,4-Dioxane	7.279	88	2348	36.17	ppb	91
59) Methyl Methacrylate	7.310	69	5422	1.79	ppb	94
60) Bromodichloromethane	7.444	83	8837	2.12	ppb	92
61) 2-Nitropropane	7.730	41	6265	4.94	ppb	92
62) 2-Chloroethylvinyl Ether	7.858	63	1336	1.79	ppb	74
63) cis-1,3-Dichloropropene	7.992	75	9647	1.85	ppb	96
64) 4-Methyl-2-pentanone	8.200	43	8444	2.10	ppb	87
66) Toluene	8.364	91	28677	2.14	ppb	97
67) trans-1,3-Dichloropropene	8.633	75	9847	2.02	ppb	93
68) Ethyl Methacrylate	8.773	69	9763	1.99	ppb	96
69) 1,1,2-Trichloroethane	8.815	97	6436	2.12	ppb	84
72) Tetrachloroethene	8.956	164	4879	2.12	ppb	# 88
73) 2-Hexanone	9.114	43	6125	2.00	ppb	100
74) 1,3-Dichloropropane	8.992	76	11726	2.19	ppb	99
75) Dibromochloromethane	9.218	129	5554	1.99	ppb	96
76) N-Butyl Acetate	9.267	43	11696	2.03	ppb	91
77) 1,2-Dibromoethane	9.315	107	5958	2.01	ppb	90
78) Chlorobenzene	9.809	112	16904	2.07	ppb	95
79) 3-CBTF	9.827	180	8895	2.04	ppb	96
80) 4-CBTF	9.882	180	8674	2.18	ppb	94
81) 1,1,1,2-Tetrachloroethane	9.895	131	5961	2.06	ppb	96
82) Ethylbenzene	9.931	106	9782	2.17	ppb	99
83) (m+p)Xylene	10.041	106	23814	4.37	ppb	91
84) o-Xylene	10.401	106	11433	2.09	ppb	96
85) Styrene	10.413	104	18180	1.98	ppb	96
87) Bromoform	10.565	173	3828	2.16	ppb	85
88) 2-CBTF	10.644	180	9285	2.31	ppb	# 94
89) Isopropylbenzene	10.736	105	28652	2.15	ppb	93
90) Cyclohexanone	10.797	55	45829	45.20	ppb	96
91) trans-1,4-Dichloro-2-B...	11.047	53	2048	1.94	ppb	84
92) 1,1,2,2-Tetrachloroethane	10.992	83	7917	1.97	ppb	89
93) Bromobenzene	10.980	156	7311	2.24	ppb	94
94) 1,2,3-Trichloropropane	11.022	110	2631	2.01	ppb	# 87
95) n-Propylbenzene	11.095	91	32706	2.11	ppb	95
96) 2-Chlorotoluene	11.156	91	20465	2.13	ppb	95
97) 3-Chlorotoluene	11.211	91	23266	2.30	ppb	97
98) 4-Chlorotoluene	11.248	91	24143	2.17	ppb	98
99) 1,3,5-Trimethylbenzene	11.248	105	23960	2.15	ppb	94
100) tert-Butylbenzene	11.516	119	21124	2.20	ppb	95
101) 1,2,4-Trimethylbenzene	11.559	105	25245	2.26	ppb	99
102) 3,4-DCBTF	11.620	214	7094	2.21	ppb	93
103) sec-Butylbenzene	11.705	105	29905	2.11	ppb	96
104) p-Isopropyltoluene	11.827	119	26248	2.20	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

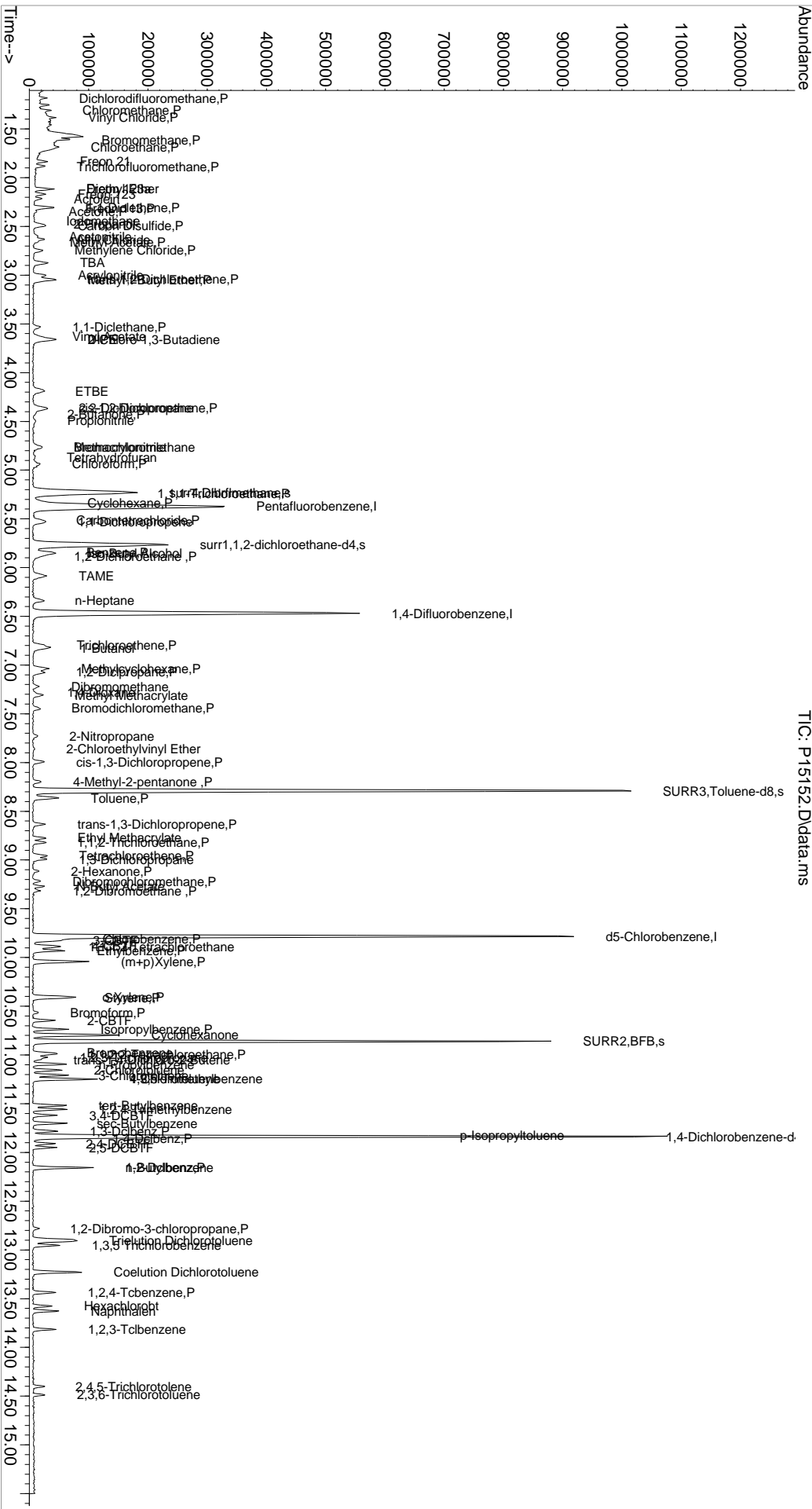
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	12674	2.04	ppb	98
106) 1,4-Dclbenz	11.858	146	13809	2.12	ppb	93
107) 2,4-DCBTF	11.912	214	6322	2.13	ppb #	80
108) 2,5-DCBTF	11.949	214	7133	2.24	ppb	88
109) n-Butylbenzene	12.156	91	22604	2.03	ppb	98
110) 1,2-Dclbenz	12.156	146	12688	2.05	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.784	157	2165	2.14	ppb	95
112) Trielution Dichlorotol...	12.906	125	37014	6.08	ppb	94
113) 1,3,5 Trichlorobenzene	12.955	180	10137	2.10	ppb	91
114) Coelution Dichlorotoluene	13.229	125	25573	3.96	ppb	96
115) 1,2,4-Tcbenzene	13.437	180	9011	2.00	ppb	99
116) Hexachlorobt	13.577	225	4926	2.36	ppb	88
117) Naphthalen	13.626	128	24217	1.95	ppb	98
118) 1,2,3-Tclbenzene	13.814	180	9296	2.13	ppb	90
119) 2,4,5-Trichlorotolene	14.406	159	3689	1.39	ppb #	91
120) 2,3,6-Trichlorotoluene	14.485	159	3383	1.40	ppb #	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 4 Sample Multiplier: 1  
 Inst : MSVOA-12

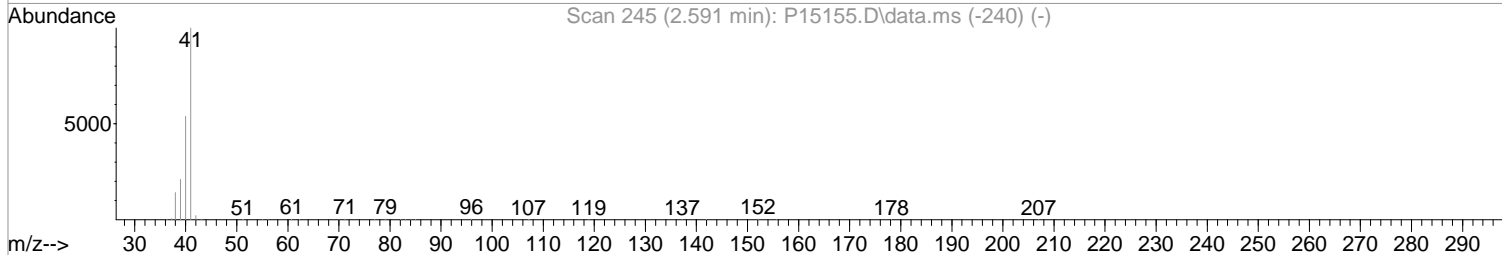
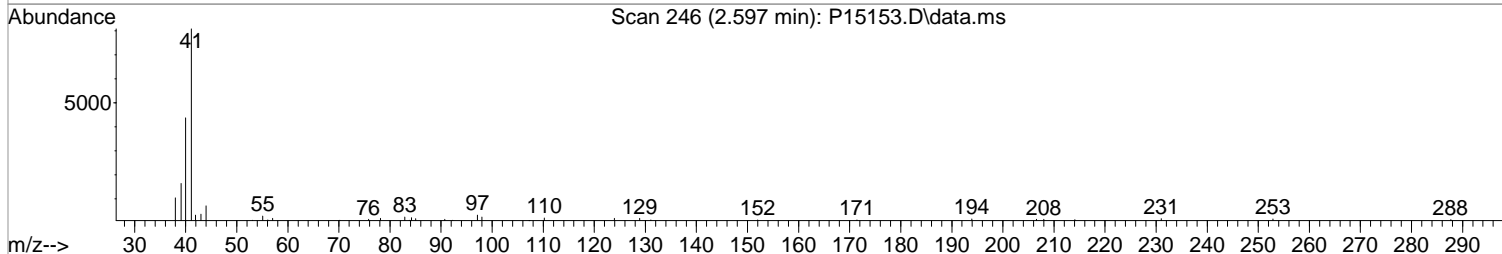
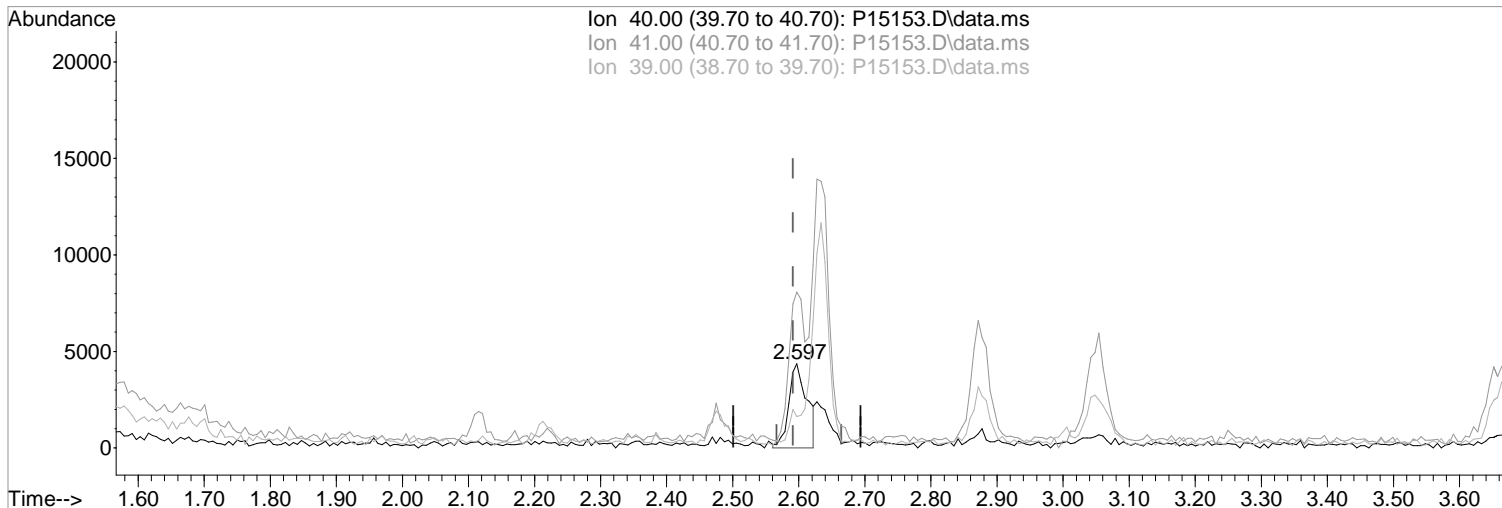
Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(19) Acetonitrile  
2.597min (+0.006) 28.53 ppb m  
response 8323

Manual Integration:  
After  
Poor integration.

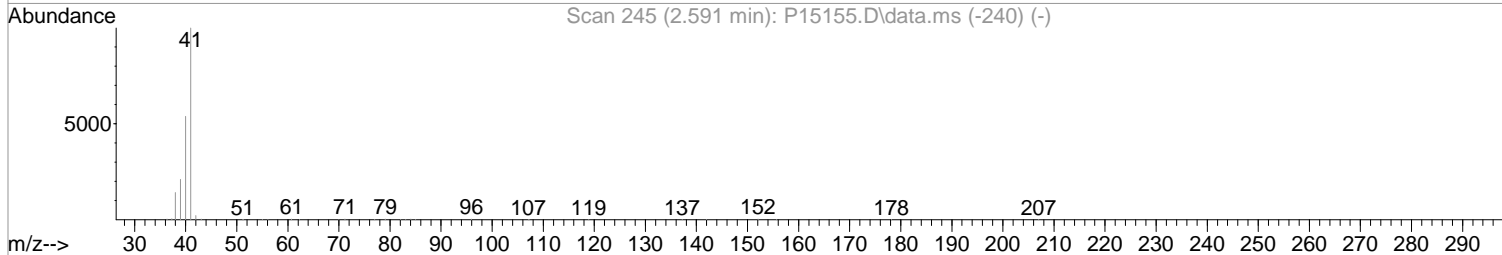
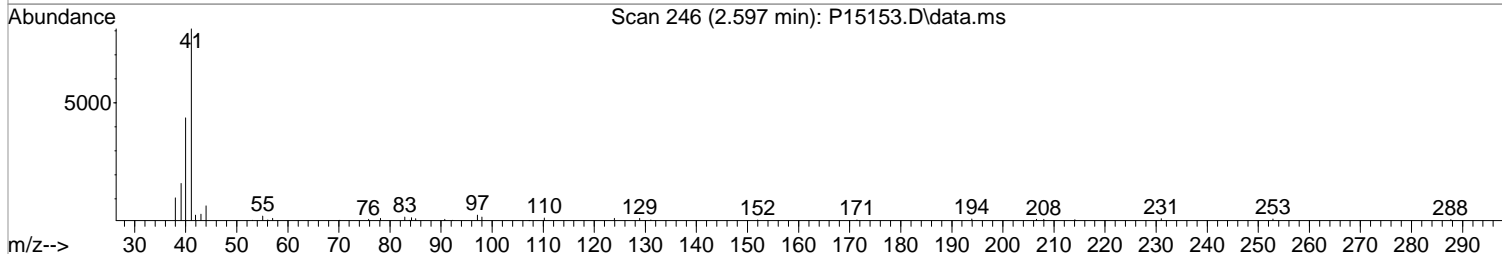
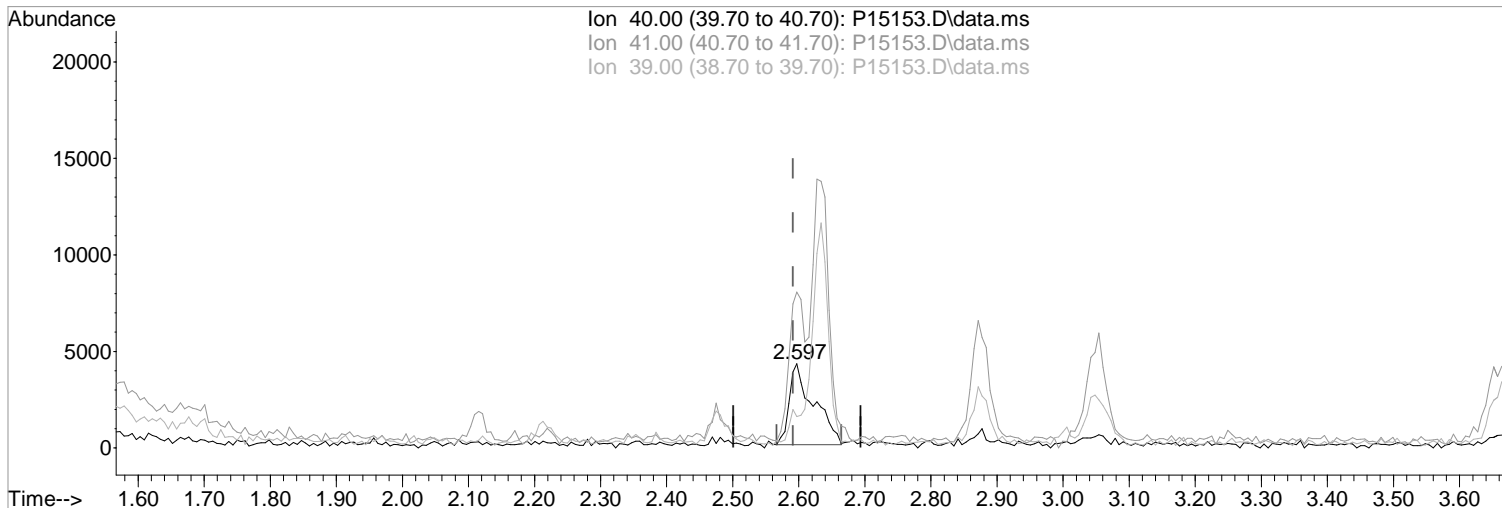
Ion	Exp%	Act%
40.00	100	100
41.00	186.50	184.90
39.00	40.10	37.44
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.597min (+0.006) 36.98 ppb  
response 10787

Manual Integration:  
Before

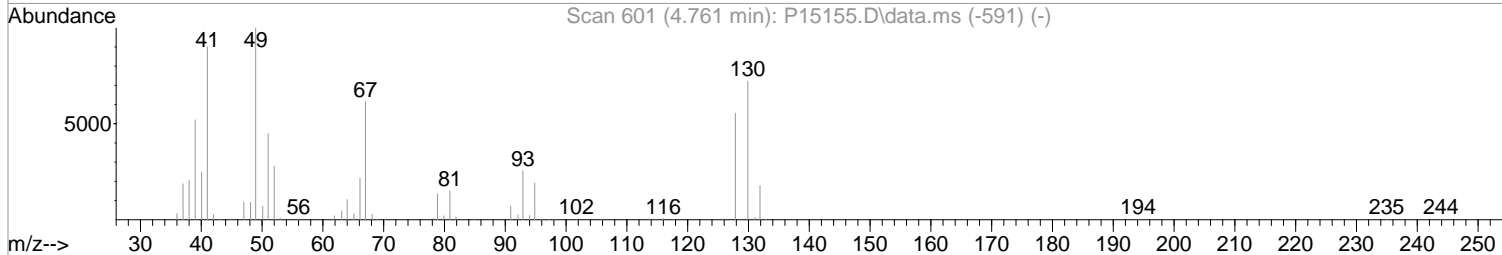
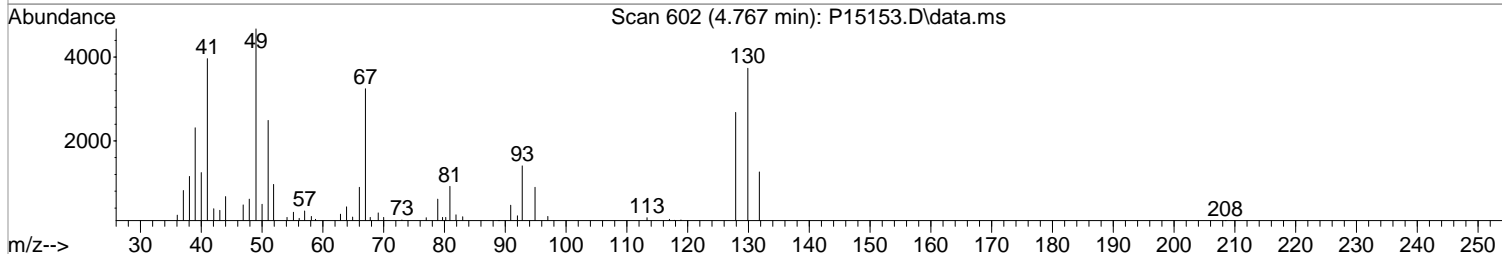
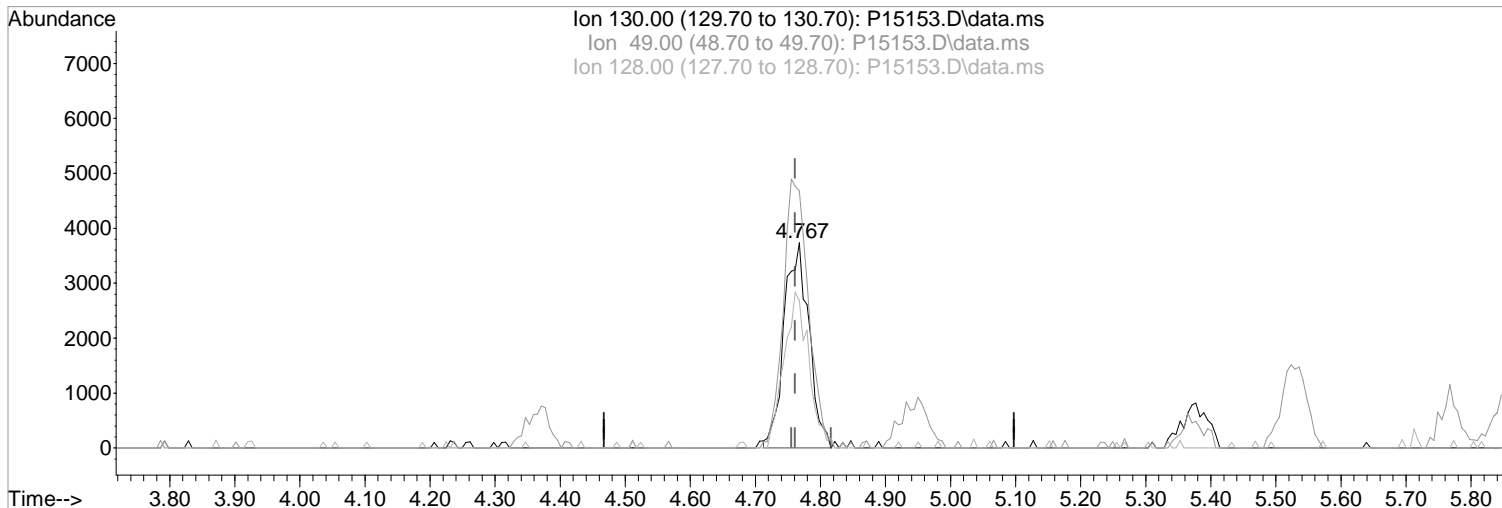
Ion	Exp%	Act%
40.00	100	100
41.00	186.50	184.90
39.00	40.10	37.44
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(37) Bromochloromethane  
4.767min (+0.006) 5.02 ppb m  
response 9891

Manual Integration:

After  
Split Peak

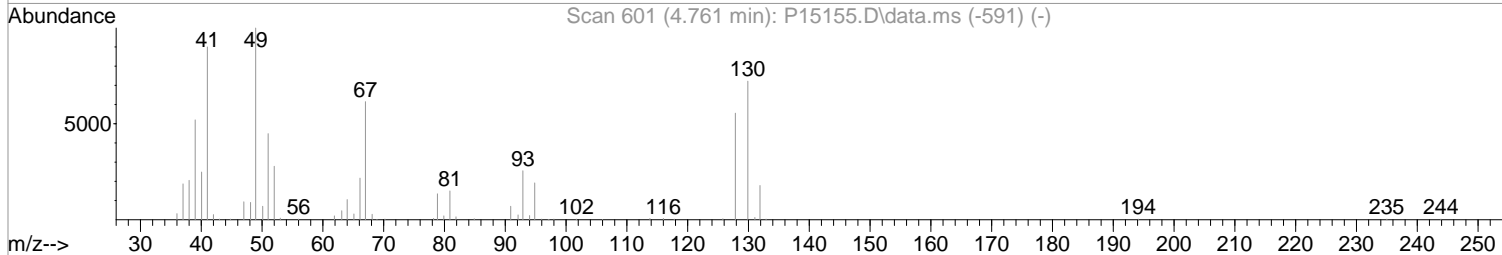
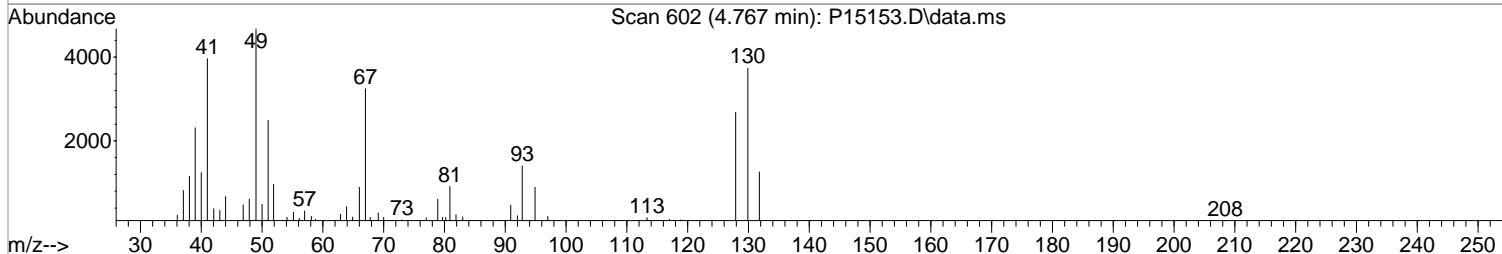
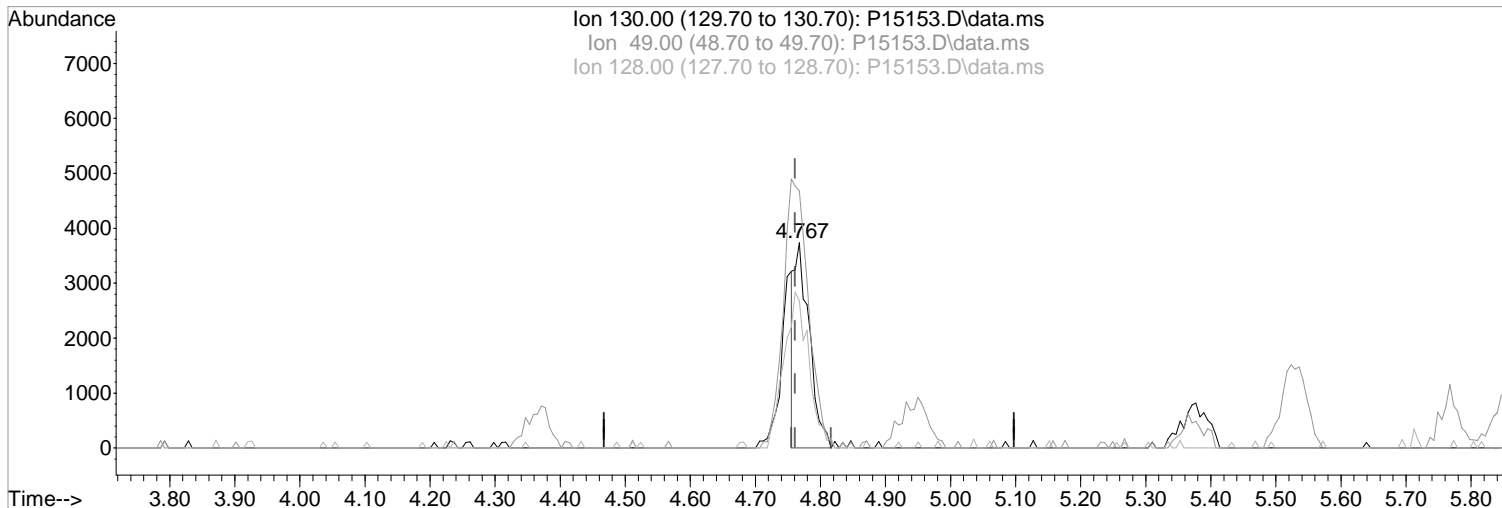
Ion	Exp%	Act%
130.00	100	100
49.00	139.00	125.22
128.00	77.10	71.83
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(37) Bromochloromethane

4.767min (+0.006) 3.03 ppb

response 5965

Ion Exp% Act%

130.00	100	100
49.00	139.00	125.22
128.00	77.10	71.83
0.00	0.00	0.00

Manual Integration:

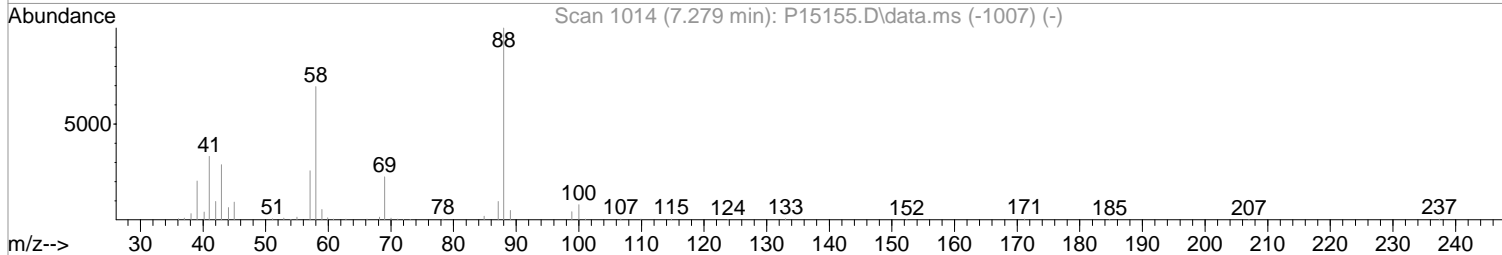
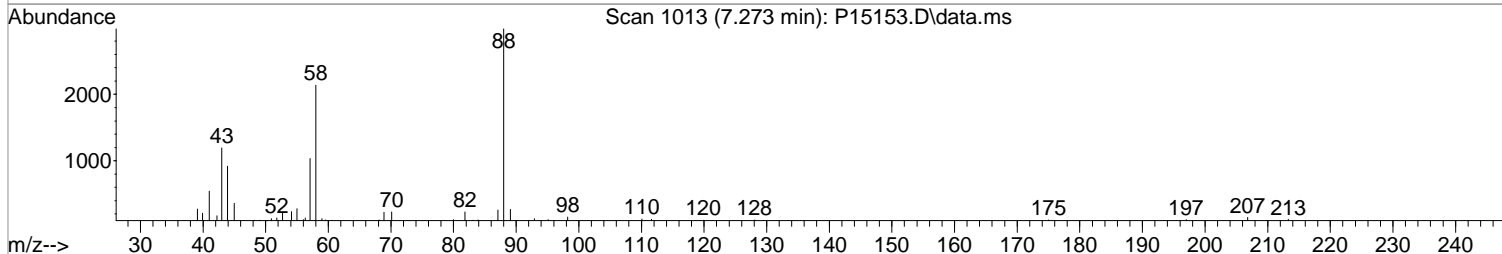
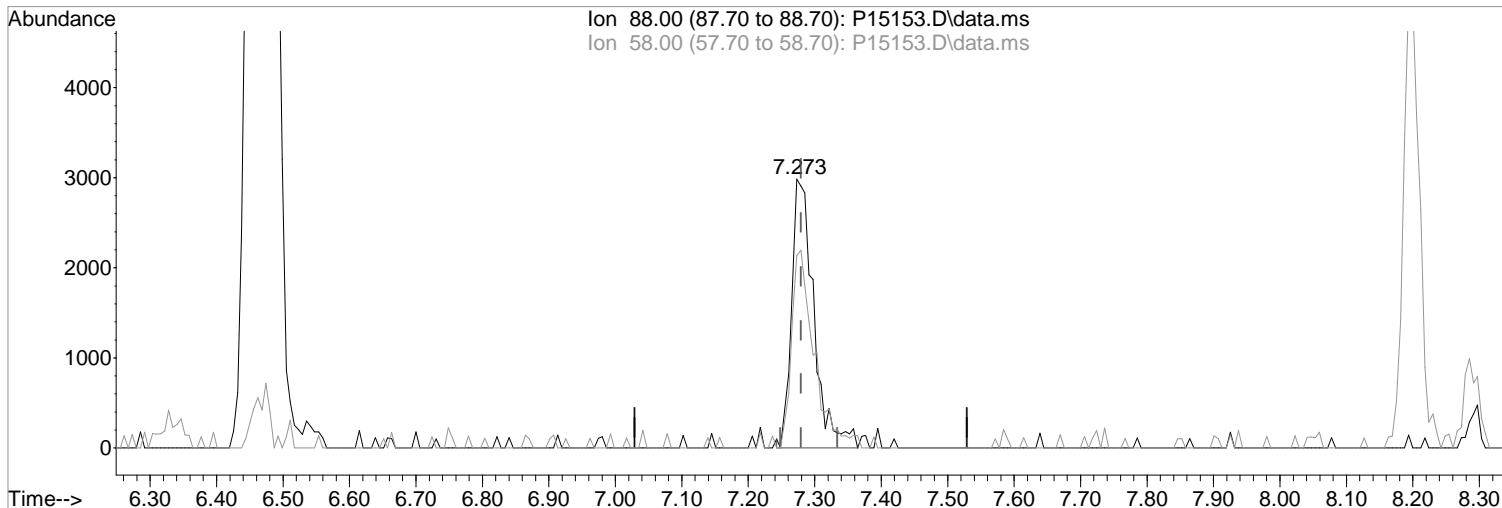
Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(58) 1,4-Dioxane  
7.273min (-0.006) 108.11 ppb m  
response 6912

Manual Integration:

After

Poor integration.

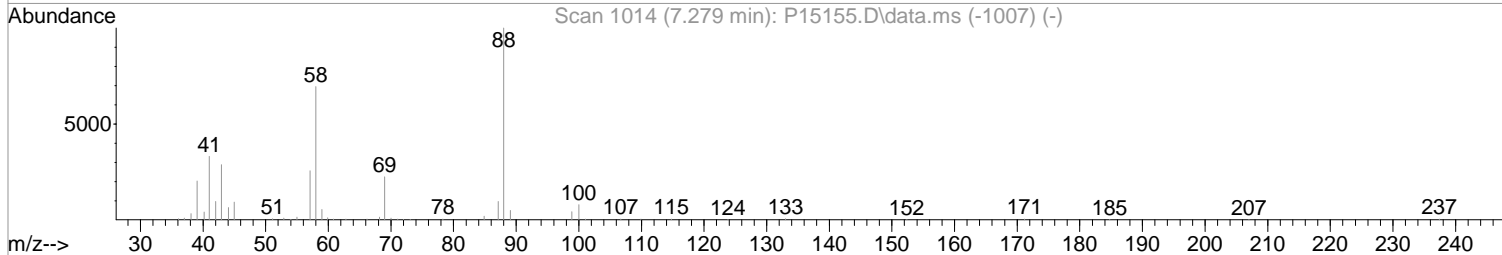
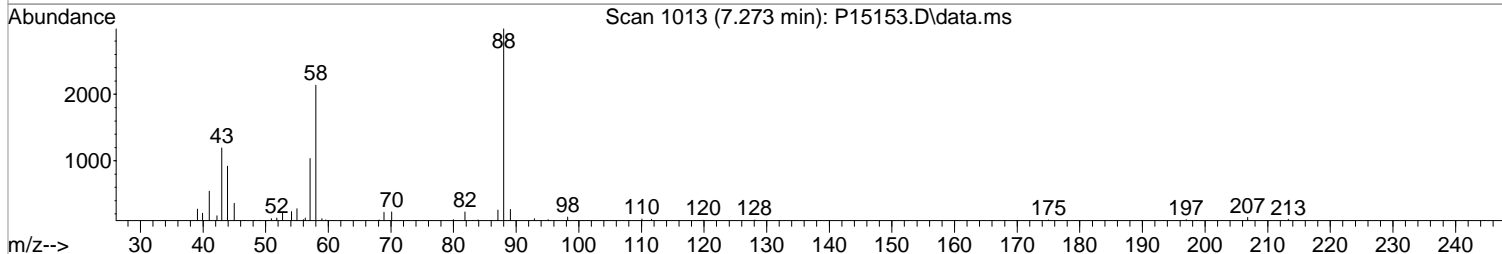
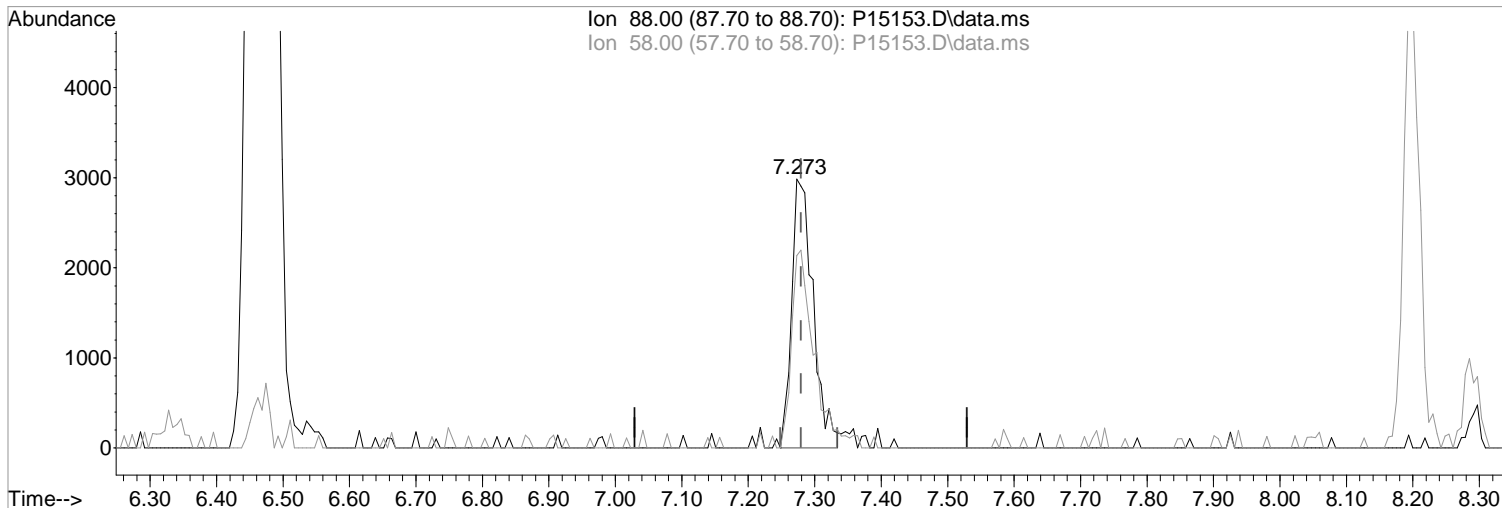
Ion	Exp%	Act%
88.00	100	100
58.00	70.00	71.57
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(58) 1,4-Dioxane  
7.273min (-0.006) 104.03 ppb  
response 6651

Manual Integration:  
Before

Ion	Exp%	Act%
88.00	100	100
58.00	70.00	71.57
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.377	168	283392	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	464816	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	405388	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	203033	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.225	113	31481	11.41	ppb	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.82%#	
48) surr1,1,2-dichloroetha...	5.767	65	43811	11.58	ppb	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	23.16%#	
65) SURR3,Toluene-d8	8.291	98	146183	11.86	ppb	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.72%#	
70) SURR2,BFB	10.858	95	55730	11.69	ppb	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	23.38%#	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	14887	4.26	ppb		96
3) Chloromethane	1.305	50	19472	4.52	ppb		97
4) Vinyl Chloride	1.384	62	21225	5.06	ppb		92
5) Bromomethane	1.609	94	19391	6.08	ppb		99
6) Chloroethane	1.689	64	13123	5.01	ppb		88
7) Freon 21	1.835	67	26792	4.91	ppb		95
8) Trichlorofluoromethane	1.884	101	20344	5.03	ppb		96
9) Diethyl Ether	2.115	59	14851	5.29	ppb		91
10) Freon 123a	2.122	67	17126	5.05	ppb		97
11) Freon 123	2.170	83	20299	5.12	ppb		96
12) Acrolein	2.219	56	21665	25.86	ppb		87
13) 1,1-Dicethene	2.304	96	14844	5.10	ppb		93
14) Freon 113	2.311	101	13449	4.89	ppb		93
15) Acetone	2.347	43	9058	5.26	ppb		96
16) 2-Propanol	2.475	45	32422	97.79	ppb		96
17) Iodomethane	2.445	142	2790	1.06	ppb		89
18) Carbon Disulfide	2.499	76	42597	5.02	ppb		99
19) Acetonitrile	2.597	40	8323m	28.53	ppb		
20) Allyl Chloride	2.634	76	8487	5.47	ppb		89
21) Methyl Acetate	2.658	43	15122	4.90	ppb		95
22) Methylene Chloride	2.749	84	15458	5.03	ppb	#	82
23) TBA	2.877	59	60237	105.40	ppb		100
24) Acrylonitrile	2.999	53	43295	26.10	ppb		96
25) Methyl-t-Butyl Ether	3.054	73	52999	5.08	ppb		98
26) trans-1,2-Dichloroethene	3.042	96	15100	4.98	ppb		98
28) 1,1-Dicethane	3.536	63	26838	4.92	ppb		96
29) Vinyl Acetate	3.627	86	4036	4.51	ppb	#	93
30) DIPE	3.658	45	52453	5.05	ppb		88
31) 2-Chloro-1,3-Butadiene	3.664	53	26425	5.01	ppb		83
32) ETBE	4.188	59	53172	5.07	ppb		98
33) 2,2-Dichloropropane	4.359	77	23967	4.94	ppb		98
34) cis-1,2-Dichloroethene	4.371	96	18079	5.03	ppb		98
35) 2-Butanone	4.420	43	11921	5.49	ppb		90
36) Propionitrile	4.493	54	18077	25.64	ppb		86
37) Bromochloromethane	4.767	130	9891m	5.02	ppb		
38) Methacrylonitrile	4.767	67	8723	4.78	ppb	#	80
39) Tetrahydrofuran	4.859	42	6134	4.84	ppb		98
40) Chloroform	4.950	83	29677	5.01	ppb		93
41) 1,1,1-Trichloroethane	5.243	97	23417	5.04	ppb		100

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	52164	5.10	ppb	97
44) Cyclohexane	5.322	41	14483	4.79	ppb	92
46) Carbontetrachloride	5.523	117	18447	5.29	ppb	90
47) 1,1-Dichloropropene	5.529	75	21281	5.20	ppb	94
49) Benzene	5.846	78	61250	5.04	ppb	98
50) 1,2-Dichloroethane	5.883	62	22893	5.13	ppb	97
51) Iso-Butyl Alcohol	5.859	43	23860	96.86	ppb	91
52) n-Heptane	6.340	43	22156	5.27	ppb	96
53) 1-Butanol	6.822	56	40479	248.41	ppb	90
54) Trichloroethene	6.797	130	15019	4.82	ppb	# 88
55) Methylcyclohexane	7.035	55	21785	5.38	ppb	92
56) 1,2-Diclpropane	7.078	63	15535	4.80	ppb	100
57) Dibromomethane	7.218	93	9298	4.81	ppb	91
58) 1,4-Dioxane	7.273	88	6912m	108.11	ppb	
59) Methyl Methacrylate	7.303	69	14282	4.79	ppb	95
60) Bromodichloromethane	7.444	83	20116	4.90	ppb	96
61) 2-Nitropropane	7.730	41	12041	9.64	ppb	94
62) 2-Chloroethylvinyl Ether	7.858	63	3483	4.74	ppb	91
63) cis-1,3-Dichloropropene	7.992	75	26383	5.13	ppb	93
64) 4-Methyl-2-pentanone	8.200	43	20060	5.08	ppb	98
66) Toluene	8.364	91	68544	5.20	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	23633	4.93	ppb	94
68) Ethyl Methacrylate	8.773	69	25902	5.36	ppb	96
69) 1,1,2-Trichloroethane	8.821	97	13951	4.66	ppb	91
72) Tetrachloroethene	8.956	164	11519	5.15	ppb	85
73) 2-Hexanone	9.114	43	15141	5.07	ppb	97
74) 1,3-Dichloropropane	8.992	76	27611	5.30	ppb	97
75) Dibromochloromethane	9.218	129	14239	5.24	ppb	99
76) N-Butyl Acetate	9.266	43	31060	5.53	ppb	97
77) 1,2-Dibromoethane	9.315	107	14526	5.03	ppb	91
78) Chlorobenzene	9.809	112	42337	5.33	ppb	95
79) 3-CBTF	9.827	180	22269	5.26	ppb	# 89
80) 4-CBTF	9.882	180	20165	5.21	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.894	131	14163	5.02	ppb	95
82) Ethylbenzene	9.931	106	22757	5.19	ppb	99
83) (m+p)Xylene	10.041	106	56709	10.68	ppb	96
84) o-Xylene	10.400	106	27065	5.09	ppb	98
85) Styrene	10.413	104	45533	5.09	ppb	97
87) Bromoform	10.565	173	8444	4.77	ppb	96
88) 2-CBTF	10.644	180	21787	5.42	ppb	94
89) Isopropylbenzene	10.736	105	73755	5.53	ppb	95
90) Cyclohexanone	10.797	55	108884	107.30	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	5580	5.28	ppb	82
92) 1,1,2,2-Tetrachloroethane	10.992	83	19803	4.92	ppb	84
93) Bromobenzene	10.986	156	17774	5.44	ppb	# 90
94) 1,2,3-Trichloropropane	11.022	110	6876	5.26	ppb	97
95) n-Propylbenzene	11.095	91	84531	5.45	ppb	99
96) 2-Chlorotoluene	11.156	91	51609	5.37	ppb	95
97) 3-Chlorotoluene	11.211	91	53980	5.32	ppb	94
98) 4-Chlorotoluene	11.248	91	58405	5.26	ppb	95
99) 1,3,5-Trimethylbenzene	11.248	105	57897	5.19	ppb	92
100) tert-Butylbenzene	11.516	119	51279	5.32	ppb	97
101) 1,2,4-Trimethylbenzene	11.559	105	57468	5.14	ppb	98
102) 3,4-DCBTF	11.620	214	15851	4.93	ppb	96
103) sec-Butylbenzene	11.699	105	74838	5.28	ppb	100
104) p-Isopropyltoluene	11.821	119	62091	5.21	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 02 11:30:54 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

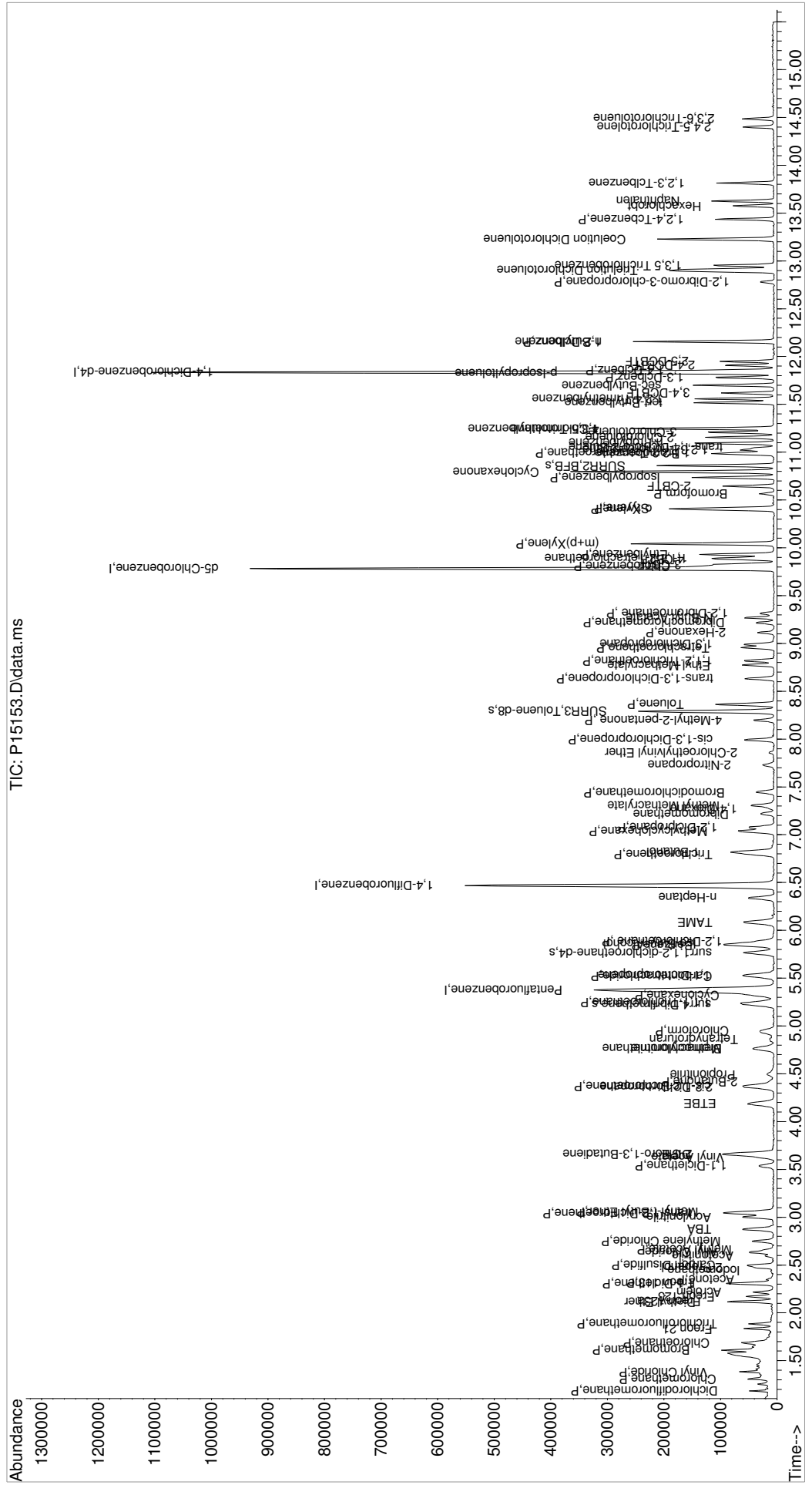
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	32275	5.20	ppb	97
106) 1,4-Dclbenz	11.857	146	34253	5.26	ppb	94
107) 2,4-DCBTF	11.912	214	15481	5.20	ppb	95
108) 2,5-DCBTF	11.949	214	15937	5.01	ppb	93
109) n-Butylbenzene	12.156	91	55352	4.98	ppb	98
110) 1,2-Dclbenz	12.156	146	33230	5.36	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.784	157	5017	4.95	ppb	88
112) Trielution Dichlorotol...	12.900	125	92375	15.15	ppb	98
113) 1,3,5 Trichlorobenzene	12.955	180	24138	5.00	ppb	92
114) Coelution Dichlorotoluene	13.229	125	66434	10.27	ppb	97
115) 1,2,4-Tcbenzene	13.436	180	22876	5.08	ppb	98
116) Hexachlorobt	13.577	225	10295	4.92	ppb	94
117) Naphthalen	13.625	128	62322	5.01	ppb	97
118) 1,2,3-Tclbenzene	13.814	180	20632	4.71	ppb	96
119) 2,4,5-Trichlorotolene	14.400	159	10252	3.86	ppb	91
120) 2,3,6-Trichlorotoluene	14.491	159	10012	4.15	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018  
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15154.D  
 Acq On : 29 Dec 2017 6:49 pm  
 Operator : K.Ruest  
 Sample : 20ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	291966	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	486988	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	432595	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	217884	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	52724	18.23	ppb	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	36.46%#	
48) surr1,1,2-dichloroetha...	5.767	65	72765	18.36	ppb	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	36.72%#	
65) SURR3,Toluene-d8	8.291	98	239896	18.58	ppb	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	37.16%#	
70) SURR2,BFB	10.858	95	88358	17.69	ppb	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	35.38%#	
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	73723	20.50	ppb		97
3) Chloromethane	1.305	50	84655	19.07	ppb		97
4) Vinyl Chloride	1.384	62	87767	20.30	ppb		99
5) Bromomethane	1.616	94	65257	19.87	ppb		95
6) Chloroethane	1.689	64	52850	19.58	ppb		96
7) Freon 21	1.835	67	115862	20.59	ppb		99
8) Trichlorofluoromethane	1.884	101	82363	19.77	ppb		98
9) Diethyl Ether	2.116	59	56515	19.54	ppb		98
10) Freon 123a	2.122	67	67133	19.21	ppb		98
11) Freon 123	2.170	83	80114	19.63	ppb		95
12) Acrolein	2.213	56	91390	105.88	ppb		99
13) 1,1-Dicethene	2.305	96	53573	17.86	ppb		97
14) Freon 113	2.311	101	53019	18.71	ppb		94
15) Acetone	2.347	43	36137	20.38	ppb		98
16) 2-Propanol	2.475	45	134988	395.20	ppb		97
17) Iodomethane	2.439	142	48129	17.81	ppb		99
18) Carbon Disulfide	2.500	76	180345	20.62	ppb		98
19) Acetonitrile	2.591	40	28858	96.02	ppb		95
20) Allyl Chloride	2.634	76	31637	19.81	ppb		95
21) Methyl Acetate	2.652	43	66029	20.77	ppb		99
22) Methylene Chloride	2.750	84	60822	19.23	ppb		91
23) TBA	2.872	59	230923	392.21	ppb		99
24) Acrylonitrile	3.000	53	170824	99.96	ppb		99
25) Methyl-t-Butyl Ether	3.048	73	214622	19.96	ppb		99
26) trans-1,2-Dichloroethene	3.042	96	58955	18.86	ppb		97
28) 1,1-Dicethane	3.536	63	109240	19.43	ppb		99
29) Vinyl Acetate	3.621	86	19750	21.42	ppb	#	84
30) DIPE	3.658	45	210759	19.69	ppb		96
31) 2-Chloro-1,3-Butadiene	3.658	53	108371	19.93	ppb		94
32) ETBE	4.182	59	218829	20.27	ppb		96
33) 2,2-Dichloropropane	4.365	77	96726	19.35	ppb		96
34) cis-1,2-Dichloroethene	4.371	96	67570	18.26	ppb		96
35) 2-Butanone	4.408	43	45812	20.46	ppb		97
36) Propionitrile	4.487	54	67409	92.82	ppb		95
37) Bromochloromethane	4.767	130	39264	19.33	ppb		92
38) Methacrylonitrile	4.767	67	35031	18.62	ppb		98
39) Tetrahydrofuran	4.853	42	26454	20.27	ppb		94
40) Chloroform	4.938	83	103219	16.93	ppb		97
41) 1,1,1-Trichloroethane	5.243	97	88142	18.40	ppb		97

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15154.D  
 Acq On : 29 Dec 2017 6:49 pm  
 Operator : K.Ruest  
 Sample : 20ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	213627	20.27	ppb	98
44) Cyclohexane	5.328	41	59944	18.91	ppb	96
46) Carbontetrachloride	5.523	117	71449	19.55	ppb	93
47) 1,1-Dichloropropene	5.530	75	82271	19.18	ppb	98
49) Benzene	5.847	78	247133	19.43	ppb	98
50) 1,2-Dichloroethane	5.883	62	90128	19.29	ppb	95
51) Iso-Butyl Alcohol	5.853	43	97223	376.70	ppb	98
52) n-Heptane	6.334	43	83119	18.88	ppb	96
53) 1-Butanol	6.816	56	168954	989.61	ppb	99
54) Trichloroethene	6.798	130	61608	18.88	ppb	96
55) Methylcyclohexane	7.035	55	82601	19.46	ppb	98
56) 1,2-Diclpropane	7.078	63	65021	19.16	ppb	95
57) Dibromomethane	7.218	93	39938	19.71	ppb	97
58) 1,4-Dioxane	7.279	88	25673	383.26	ppb	97
59) Methyl Methacrylate	7.304	69	59811	19.16	ppb	96
60) Bromodichloromethane	7.450	83	79062	18.36	ppb	97
61) 2-Nitropropane	7.724	41	50922	38.91	ppb	94
62) 2-Chloroethylvinyl Ether	7.858	63	13441	17.45	ppb	94
63) cis-1,3-Dichloropropene	7.992	75	109564	20.33	ppb	98
64) 4-Methyl-2-pentanone	8.194	43	83525	20.18	ppb	99
66) Toluene	8.364	91	267628	19.37	ppb	97
67) trans-1,3-Dichloropropene	8.633	75	100595	20.04	ppb	99
68) Ethyl Methacrylate	8.773	69	106139	20.96	ppb	97
69) 1,1,2-Trichloroethane	8.822	97	58878	18.76	ppb	98
72) Tetrachloroethene	8.956	164	42833	17.94	ppb	95
73) 2-Hexanone	9.108	43	63596	19.97	ppb	88
74) 1,3-Dichloropropane	8.986	76	109832	19.76	ppb	99
75) Dibromochloromethane	9.218	129	56561	19.50	ppb	99
76) N-Butyl Acetate	9.267	43	128752	21.48	ppb	97
77) 1,2-Dibromoethane	9.315	107	63198	20.51	ppb	97
78) Chlorobenzene	9.809	112	167284	19.74	ppb	98
79) 3-CBTF	9.827	180	88226	19.52	ppb	99
80) 4-CBTF	9.882	180	80584	19.51	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.895	131	56794	18.85	ppb	99
82) Ethylbenzene	9.931	106	87997	18.81	ppb	96
83) (m+p)Xylene	10.041	106	219646	38.78	ppb	100
84) o-Xylene	10.401	106	108435	19.12	ppb	94
85) Styrene	10.413	104	187928	19.69	ppb	97
87) Bromoform	10.565	173	38186	20.09	ppb	96
88) 2-CBTF	10.644	180	86163	19.97	ppb	98
89) Isopropylbenzene	10.736	105	282882	19.76	ppb	99
90) Cyclohexanone	10.797	55	429744	394.62	ppb	99
91) trans-1,4-Dichloro-2-B...	11.047	53	22558	19.88	ppb	95
92) 1,1,2,2-Tetrachloroethane	10.992	83	83898	19.42	ppb	98
93) Bromobenzene	10.980	156	67536	19.26	ppb	96
94) 1,2,3-Trichloropropane	11.022	110	29041	20.69	ppb	100
95) n-Propylbenzene	11.095	91	333066	20.01	ppb	100
96) 2-Chlorotoluene	11.156	91	200054	19.39	ppb	100
97) 3-Chlorotoluene	11.205	91	224096	20.59	ppb	92
98) 4-Chlorotoluene	11.248	91	230591	19.34	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	232544	19.42	ppb	97
100) tert-Butylbenzene	11.516	119	200065	19.36	ppb	98
101) 1,2,4-Trimethylbenzene	11.559	105	233419	19.47	ppb	98
102) 3,4-DCBTF	11.620	214	68300	19.80	ppb	99
103) sec-Butylbenzene	11.699	105	294650	19.37	ppb	99
104) p-Isopropyltoluene	11.821	119	240243	18.77	ppb	99



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15154.D  
 Acq On : 29 Dec 2017 6:49 pm  
 Operator : K.Ruest  
 Sample : 20ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 02 10:04:51 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	128325	19.26	ppb	99
106) 1,4-Dclbenz	11.858	146	132721	18.98	ppb	98
107) 2,4-DCBTF	11.906	214	63318	19.82	ppb	98
108) 2,5-DCBTF	11.949	214	68912	20.18	ppb	96
109) n-Butylbenzene	12.156	91	223403	18.71	ppb	97
110) 1,2-Dclbenz	12.156	146	132338	19.90	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.778	157	20568	18.89	ppb	88
112) Trielution Dichlorotol...	12.900	125	390759	59.72	ppb	99
113) 1,3,5 Trichlorobenzene	12.955	180	103199	19.93	ppb	99
114) Coelution Dichlorotoluene	13.229	125	280855	40.47	ppb	99
115) 1,2,4-Tcbenzene	13.437	180	92621	19.16	ppb	97
116) Hexachlorobt	13.577	225	40099	17.87	ppb	97
117) Naphthalen	13.626	128	274709	20.59	ppb	98
118) 1,2,3-Tclbenzene	13.814	180	90401	19.25	ppb	95
119) 2,4,5-Trichlorotolene	14.400	159	55914	19.64	ppb	96
120) 2,3,6-Trichlorotoluene	14.485	159	52554	20.31	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15155.D  
 Acq On : 29 Dec 2017 7:11 pm  
 Operator : K.Ruest  
 Sample : 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	285166	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	470666	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	417045	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	212180	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.225	113	139572	49.94	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.88%			
48) surr1,1,2-dichloroetha...	5.767	65	193216	50.45	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	100.90%			
65) SURR3,Toluene-d8	8.291	98	626059	50.17	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.34%			
70) SURR2,BFB	10.858	95	238144	49.33	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.66%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	185458	52.80	ppb		100
3) Chloromethane	1.305	50	209194	48.25	ppb		100
4) Vinyl Chloride	1.384	62	213326	50.51	ppb		100
5) Bromomethane	1.610	94	132984	41.46	ppb		100
6) Chloroethane	1.689	64	132064	50.08	ppb		100
7) Freon 21	1.835	67	274910	50.02	ppb		100
8) Trichlorofluoromethane	1.884	101	202491	49.75	ppb		100
9) Diethyl Ether	2.116	59	133898	47.40	ppb		100
10) Freon 123a	2.116	67	169452	49.64	ppb		100
11) Freon 123	2.170	83	197460	49.54	ppb		100
12) Acrolein	2.213	56	205270	243.48	ppb		100
13) 1,1-Diclcethene	2.305	96	133942	45.73	ppb		100
14) Freon 113	2.311	101	133342	48.17	ppb		100
15) Acetone	2.347	43	87260	50.38	ppb		100
16) 2-Propanol	2.475	45	309128	926.59	ppb		100
17) Iodomethane	2.433	142	183051	69.36	ppb		100
18) Carbon Disulfide	2.500	76	431946	50.56	ppb		100
19) Acetonitrile	2.591	40	68723	234.11	ppb		100
20) Allyl Chloride	2.634	76	74459	47.73	ppb		100
21) Methyl Acetate	2.652	43	147727	47.57	ppb		100
22) Methylene Chloride	2.750	84	149710	48.46	ppb		100
23) TBA	2.871	59	538425	936.28	ppb		100
24) Acrylonitrile	3.000	53	395382	236.88	ppb		100
25) Methyl-t-Butyl Ether	3.048	73	511794	48.74	ppb		100
26) trans-1,2-Dichloroethene	3.042	96	146262	47.90	ppb		100
28) 1,1-Diclcethane	3.536	63	269876	49.15	ppb		100
29) Vinyl Acetate	3.627	86	42409	47.10	ppb		100
30) DIPE	3.658	45	509501	48.73	ppb		100
31) 2-Chloro-1,3-Butadiene	3.658	53	254374	47.89	ppb		100
32) ETBE	4.188	59	532219	50.48	ppb		100
33) 2,2-Dichloropropane	4.359	77	233299	47.78	ppb		100
34) cis-1,2-Dichloroethene	4.371	96	164684	45.56	ppb		100
35) 2-Butanone	4.414	43	106486	48.70	ppb		100
36) Propionitrile	4.493	54	163133	229.97	ppb		100
37) Bromochloromethane	4.761	130	92520	46.64	ppb		100
38) Methacrylonitrile	4.761	67	82633	44.98	ppb		100
39) Tetrahydrofuran	4.853	42	62628	49.14	ppb		100
40) Chloroform	4.944	83	253260	42.52	ppb		100
41) 1,1,1-Trichloroethane	5.243	97	216329	46.24	ppb		100

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15155.D  
 Acq On : 29 Dec 2017 7:11 pm  
 Operator : K.Ruest  
 Sample : 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	512669	49.81	ppb	100
44) Cyclohexane	5.328	41	146746	47.90	ppb	100
46) Carbontetrachloride	5.517	117	177487	50.24	ppb	100
47) 1,1-Dichloropropene	5.529	75	204387	49.30	ppb	100
49) Benzene	5.847	78	603170	49.06	ppb	100
50) 1,2-Dichloroethane	5.883	62	221777	49.10	ppb	100
51) Iso-Butyl Alcohol	5.853	43	235620	944.60	ppb	100
52) n-Heptane	6.340	43	207731	48.81	ppb	100
53) 1-Butanol	6.822	56	408921	2478.23	ppb	100
54) Trichloroethene	6.798	130	157782	50.04	ppb	100
55) Methylcyclohexane	7.035	55	209380	51.03	ppb	100
56) 1,2-Diclpropane	7.078	63	159102	48.51	ppb	100
57) Dibromomethane	7.218	93	95701	48.87	ppb	100
58) 1,4-Dioxane	7.279	88	60464	933.95	ppb	100
59) Methyl Methacrylate	7.304	69	145402	48.19	ppb	100
60) Bromodichloromethane	7.444	83	192925	46.36	ppb	100
61) 2-Nitropropane	7.724	41	123250	97.43	ppb	100
62) 2-Chloroethylvinyl Ether	7.858	63	36696	49.29	ppb	100
63) cis-1,3-Dichloropropene	7.992	75	265008	50.88	ppb	100
64) 4-Methyl-2-pentanone	8.194	43	197235	49.30	ppb	100
66) Toluene	8.364	91	660262	49.44	ppb	100
67) trans-1,3-Dichloropropene	8.633	75	246121	50.72	ppb	100
68) Ethyl Methacrylate	8.773	69	250836	51.26	ppb	100
69) 1,1,2-Trichloroethane	8.822	97	140459	46.30	ppb	100
72) Tetrachloroethene	8.956	164	110238	47.90	ppb	100
73) 2-Hexanone	9.108	43	151603	49.37	ppb	100
74) 1,3-Dichloropropane	8.986	76	264897	49.43	ppb	100
75) Dibromochloromethane	9.218	129	141283	50.51	ppb	100
76) N-Butyl Acetate	9.267	43	304141	52.63	ppb	100
77) 1,2-Dibromoethane	9.315	107	147371	49.60	ppb	100
78) Chlorobenzene	9.809	112	409247	50.09	ppb	100
79) 3-CBTF	9.827	180	209587	48.11	ppb	100
80) 4-CBTF	9.882	180	188719	47.40	ppb	100
81) 1,1,1,2-Tetrachloroethane	9.895	131	142685	49.13	ppb	100
82) Ethylbenzene	9.931	106	221739	49.16	ppb	100
83) (m+p)Xylene	10.041	106	544255	99.68	ppb	100
84) o-Xylene	10.400	106	273570	50.04	ppb	100
85) Styrene	10.413	104	473047	51.40	ppb	100
87) Bromoform	10.565	173	91728	49.56	ppb	100
88) 2-CBTF	10.644	180	204437	48.67	ppb	100
89) Isopropylbenzene	10.736	105	703200	50.44	ppb	100
90) Cyclohexanone	10.797	55	1032485	973.58	ppb	100
91) trans-1,4-Dichloro-2-B...	11.047	53	54132	48.99	ppb	100
92) 1,1,2,2-Tetrachloroethane	10.998	83	202168	48.05	ppb	100
93) Bromobenzene	10.980	156	167317	49.01	ppb	100
94) 1,2,3-Trichloropropane	11.022	110	67110	49.10	ppb	100
95) n-Propylbenzene	11.095	91	837261	51.65	ppb	100
96) 2-Chlorotoluene	11.156	91	496293	49.38	ppb	100
97) 3-Chlorotoluene	11.211	91	535859	50.55	ppb	100
98) 4-Chlorotoluene	11.248	91	583666	50.27	ppb	100
99) 1,3,5-Trimethylbenzene	11.248	105	592259	50.79	ppb	100
100) tert-Butylbenzene	11.516	119	510291	50.70	ppb	100
101) 1,2,4-Trimethylbenzene	11.559	105	598582	51.26	ppb	100
102) 3,4-DCBTF	11.620	214	168206	50.08	ppb	100
103) sec-Butylbenzene	11.699	105	758675	51.23	ppb	100
104) p-Isopropyltoluene	11.821	119	636264	51.05	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15155.D  
 Acq On : 29 Dec 2017 7:11 pm  
 Operator : K.Ruest  
 Sample : 50ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 02 10:04:54 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	327576	50.47	ppb	100
106) 1,4-Dclbenz	11.858	146	330531	48.53	ppb	100
107) 2,4-DCBTF	11.912	214	155261	49.89	ppb	100
108) 2,5-DCBTF	11.949	214	166686	50.13	ppb	100
109) n-Butylbenzene	12.156	91	606320	52.15	ppb	100
110) 1,2-Dclbenz	12.156	146	326328	50.38	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.784	157	49528	46.72	ppb	100
112) Trielution Dichlorotol...	12.900	125	979295	153.70	ppb	100
113) 1,3,5 Trichlorobenzene	12.955	180	258128	51.19	ppb	100
114) Coelution Dichlorotoluene	13.229	125	718040	106.26	ppb	100
115) 1,2,4-Tcbenzene	13.437	180	247574	52.58	ppb	100
116) Hexachlorobt	13.577	225	107495	49.18	ppb	100
117) Naphthalen	13.625	128	706889	54.41	ppb	100
118) 1,2,3-Tclbenzene	13.814	180	240331	52.55	ppb	100
119) 2,4,5-Trichlorotolene	14.400	159	168073	60.62	ppb	100
120) 2,3,6-Trichlorotoluene	14.485	159	154183	61.18	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	291479	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	485941	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	437945	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	232083	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	291015	100.86	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	201.72%#	
48) surr1,1,2-dichloroetha...	5.767	65	393053	99.41	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	198.82%#	
65) SURR3,Toluene-d8	8.291	98	1270821	98.64	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	197.28%#	
70) SURR2,BFB	10.858	95	503121	100.94	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	201.88%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	406406	113.20	ppb	97
3) Chloromethane	1.305	50	457343	103.19	ppb	100
4) Vinyl Chloride	1.384	62	471329	109.18	ppb	98
5) Bromomethane	1.603	94	267383	81.55	ppb	98
6) Chloroethane	1.683	64	281603	104.48	ppb	98
7) Freon 21	1.835	67	570720	101.59	ppb	100
8) Trichlorofluoromethane	1.878	101	450983	108.41	ppb	99
9) Diethyl Ether	2.115	59	296654	102.75	ppb	97
10) Freon 123a	2.115	67	352884	101.14	ppb	98
11) Freon 123	2.170	83	416503	102.22	ppb	98
12) Acrolein	2.213	56	420814	488.34	ppb	99
13) 1,1-Diclcethene	2.304	96	295926	98.84	ppb	96
14) Freon 113	2.310	101	295983	104.62	ppb	99
15) Acetone	2.347	43	173977	98.27	ppb	98
16) 2-Propanol	2.481	45	687919	2017.34	ppb	99
17) Iodomethane	2.432	142	397156	147.24	ppb	96
18) Carbon Disulfide	2.493	76	869002	99.52	ppb	99
19) Acetonitrile	2.591	40	152773	509.17	ppb	99
20) Allyl Chloride	2.634	76	159380	99.95	ppb	98
21) Methyl Acetate	2.652	43	314450	99.07	ppb	99
22) Methylene Chloride	2.749	84	327410	103.68	ppb	98
23) TBA	2.877	59	1208755	2056.41	ppb	99
24) Acrylonitrile	2.999	53	871837	511.02	ppb	98
25) Methyl-t-Butyl Ether	3.048	73	1106707	103.11	ppb	100
26) trans-1,2-Dichloroethene	3.042	96	321201	102.90	ppb	96
28) 1,1-Diclcethane	3.536	63	596191	106.24	ppb	99
29) Vinyl Acetate	3.621	86	91108	99.00	ppb	# 88
30) DIPE	3.658	45	1041698	97.47	ppb	98
31) 2-Chloro-1,3-Butadiene	3.658	53	512752	94.45	ppb	95
32) ETBE	4.188	59	1081591	100.36	ppb	98
33) 2,2-Dichloropropane	4.365	77	515652	103.33	ppb	98
34) cis-1,2-Dichloroethene	4.371	96	362470	98.11	ppb	99
35) 2-Butanone	4.408	43	216443	96.85	ppb	96
36) Propionitrile	4.493	54	359375	495.65	ppb	98
37) Bromochloromethane	4.761	130	207820	102.50	ppb	97
38) Methacrylonitrile	4.761	67	181165	96.47	ppb	98
39) Tetrahydrofuran	4.853	42	140292	107.69	ppb	92
40) Chloroform	4.944	83	552967	90.83	ppb	99
41) 1,1,1-Trichloroethane	5.237	97	489285	102.31	ppb	98



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	1052920	100.08	ppb	99
44) Cyclohexane	5.328	41	308776	97.62	ppb	97
46) Carbontetrachloride	5.517	117	401975	110.20	ppb	97
47) 1,1-Dichloropropene	5.529	75	450211	105.18	ppb	93
49) Benzene	5.846	78	1326681	104.52	ppb	99
50) 1,2-Dichloroethane	5.883	62	481513	103.26	ppb	98
51) Iso-Butyl Alcohol	5.859	43	537047	2085.33	ppb	98
52) n-Heptane	6.334	43	458826	104.42	ppb	97
53) 1-Butanol	6.828	56	896835	5264.34	ppb	99
54) Trichloroethene	6.797	130	342516	105.22	ppb	97
55) Methylcyclohexane	7.035	55	436058	102.94	ppb	95
56) 1,2-Diclpropane	7.078	63	349111	103.09	ppb	100
57) Dibromomethane	7.218	93	210104	103.93	ppb	99
58) 1,4-Dioxane	7.279	88	141678	2119.63	ppb	97
59) Methyl Methacrylate	7.303	69	317131	101.80	ppb	96
60) Bromodichloromethane	7.444	83	432910	100.77	ppb	96
61) 2-Nitropropane	7.730	41	273028	209.06	ppb	97
62) 2-Chloroethylvinyl Ether	7.852	63	89516	116.45	ppb	97
63) cis-1,3-Dichloropropene	7.992	75	584323	108.65	ppb	97
64) 4-Methyl-2-pentanone	8.193	43	408070	98.80	ppb	100
66) Toluene	8.364	91	1433672	103.98	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	545723	108.92	ppb	100
68) Ethyl Methacrylate	8.773	69	557135	110.26	ppb	100
69) 1,1,2-Trichloroethane	8.821	97	312299	99.70	ppb	98
72) Tetrachloroethene	8.956	164	246661	102.06	ppb	99
73) 2-Hexanone	9.108	43	318266	98.71	ppb	98
74) 1,3-Dichloropropane	8.992	76	577284	102.58	ppb	97
75) Dibromochloromethane	9.218	129	318785	108.54	ppb	99
76) N-Butyl Acetate	9.266	43	649156	106.97	ppb	98
77) 1,2-Dibromoethane	9.315	107	323633	103.73	ppb	96
78) Chlorobenzene	9.809	112	904858	105.46	ppb	99
79) 3-CBTF	9.827	180	437770	95.69	ppb	96
80) 4-CBTF	9.882	180	397310	95.03	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.894	131	315863	103.56	ppb	99
82) Ethylbenzene	9.931	106	493080	104.09	ppb	96
83) (m+p)Xylene	10.047	106	1229191	214.38	ppb	91
84) o-Xylene	10.400	106	604232	105.25	ppb	100
85) Styrene	10.413	104	1053244	108.99	ppb	99
87) Bromoform	10.565	173	216146	106.77	ppb	98
88) 2-CBTF	10.644	180	430768	93.75	ppb	95
89) Isopropylbenzene	10.736	105	1573603	103.20	ppb	100
90) Cyclohexanone	10.797	55	2355466	2030.61	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	127881	105.82	ppb	97
92) 1,1,2,2-Tetrachloroethane	10.998	83	463179	100.65	ppb	100
93) Bromobenzene	10.986	156	379408	101.60	ppb	# 85
94) 1,2,3-Trichloropropane	11.022	110	150724	100.82	ppb	96
95) n-Propylbenzene	11.095	91	1857463	104.76	ppb	99
96) 2-Chlorotoluene	11.156	91	1134081	103.17	ppb	99
97) 3-Chlorotoluene	11.211	91	1133645	97.76	ppb	98
98) 4-Chlorotoluene	11.248	91	1309812	103.13	ppb	98
99) 1,3,5-Trimethylbenzene	11.248	105	1335384	104.71	ppb	97
100) tert-Butylbenzene	11.522	119	1156415	105.05	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	1356626	106.21	ppb	99
102) 3,4-DCBTF	11.620	214	364062	99.10	ppb	99
103) sec-Butylbenzene	11.699	105	1721017	106.24	ppb	100
104) p-Isopropyltoluene	11.827	119	1462620	107.29	ppb	98



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 8 Sample Multiplier: 1

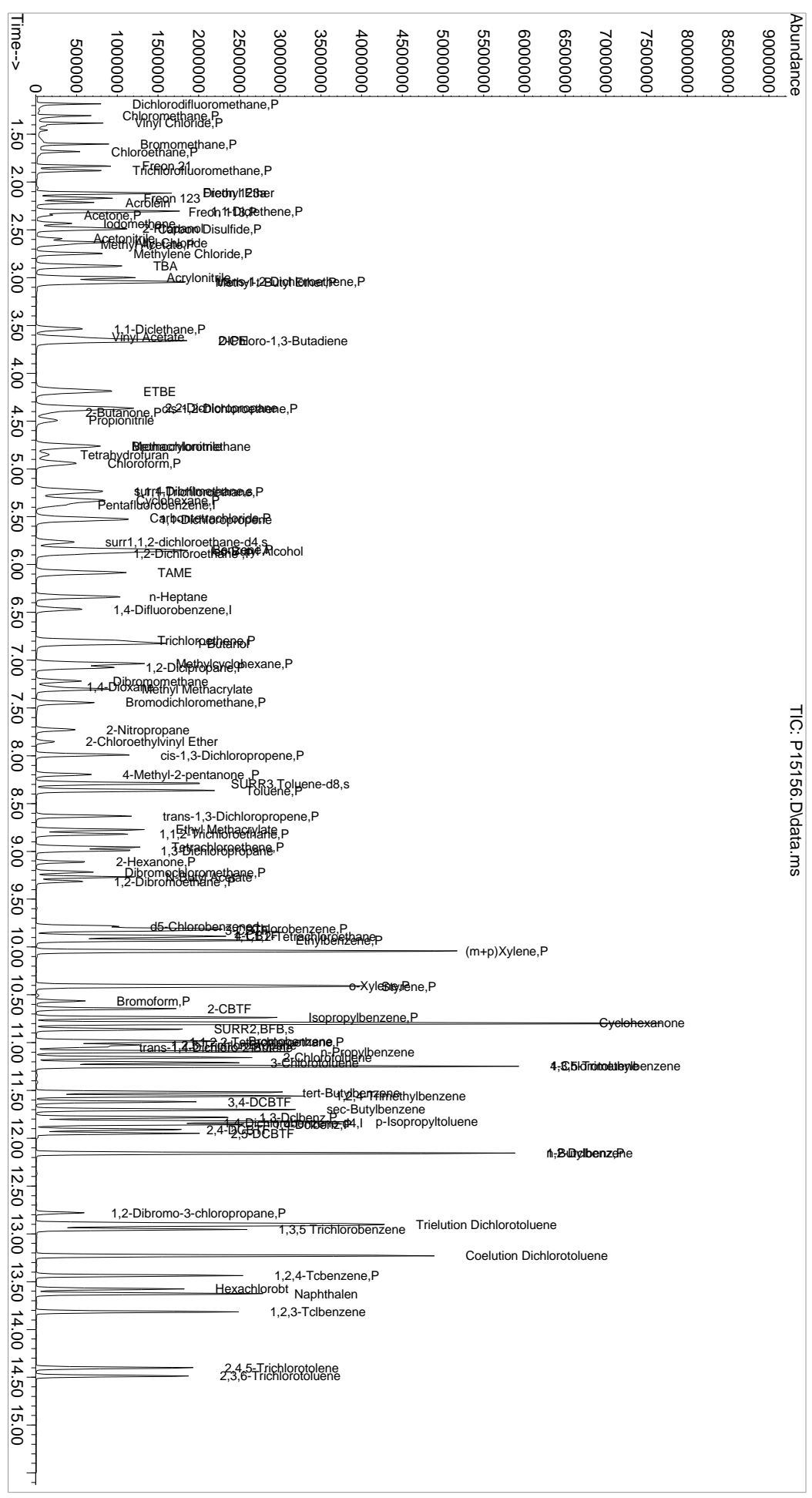
Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	745361	105.00	ppb	99
106) 1,4-Dclbenz	11.857	146	759898	102.00	ppb	100
107) 2,4-DCBTF	11.912	214	342135	100.52	ppb	98
108) 2,5-DCBTF	11.949	214	375116	103.14	ppb	96
109) n-Butylbenzene	12.156	91	1412911	111.11	ppb	99
110) 1,2-Dclbenz	12.156	146	757996	106.99	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.784	157	121453	104.74	ppb	97
112) Trielution Dichlorotol...	12.900	125	2132804	306.04	ppb	99
113) 1,3,5 Trichlorobenzene	12.955	180	566591	102.72	ppb	99
114) Coelution Dichlorotoluene	13.229	125	1564602	211.68	ppb	98
115) 1,2,4-Tcbenzene	13.436	180	573904	111.44	ppb	97
116) Hexachlorobt	13.577	225	253403	106.00	ppb	97
117) Naphthalen	13.625	128	1624030	114.29	ppb	100
118) 1,2,3-Tclbenzene	13.814	180	562316	112.41	ppb	98
119) 2,4,5-Trichlorotolene	14.400	159	389200	128.33	ppb	96
120) 2,3,6-Trichlorotoluene	14.485	159	350481	127.14	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb  
 Conc : 8260 WATER ICAL  
 PALS Vial : 8 Sample Multiplier: 1  
 Inst : MSVOA-12

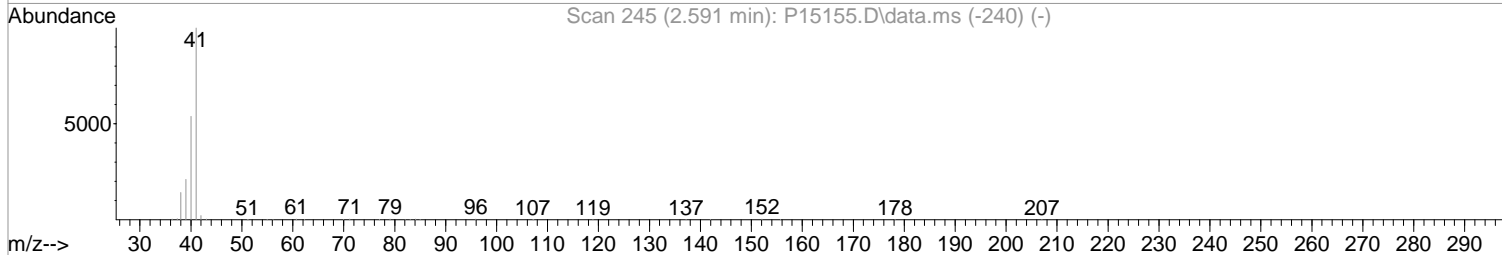
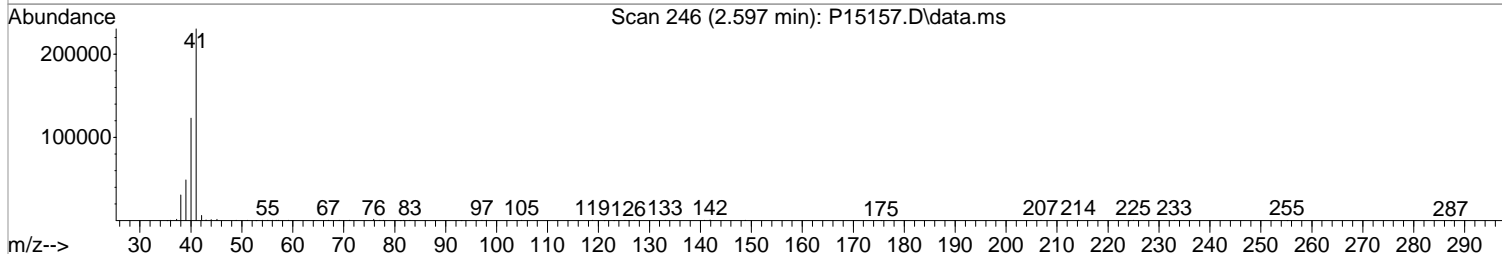
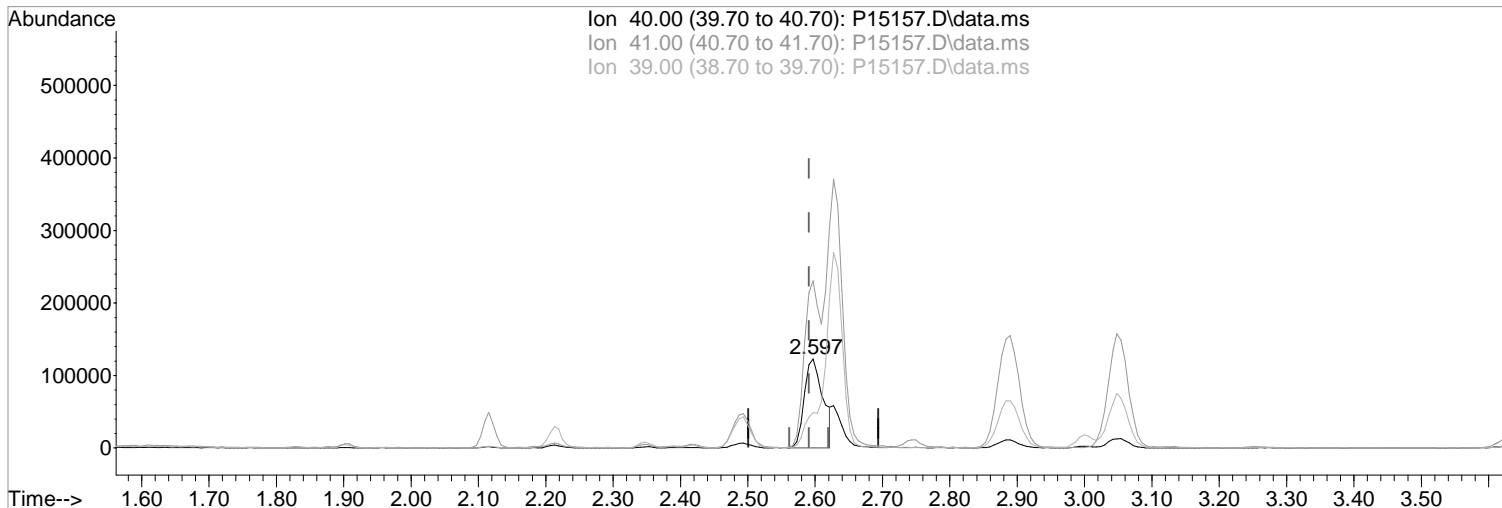
Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:00 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



(19) Acetonitrile  
 2.597min (+0.006) 790.36 ppb m  
 response 238029

Manual Integration:

After

Poor integration.

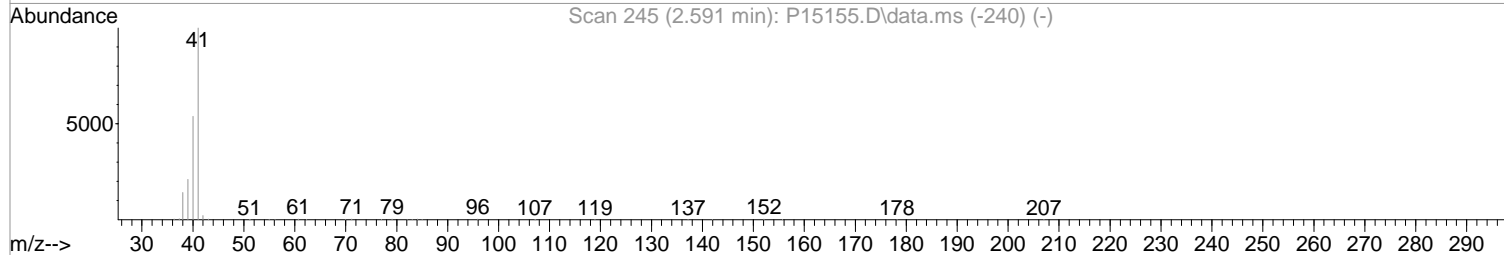
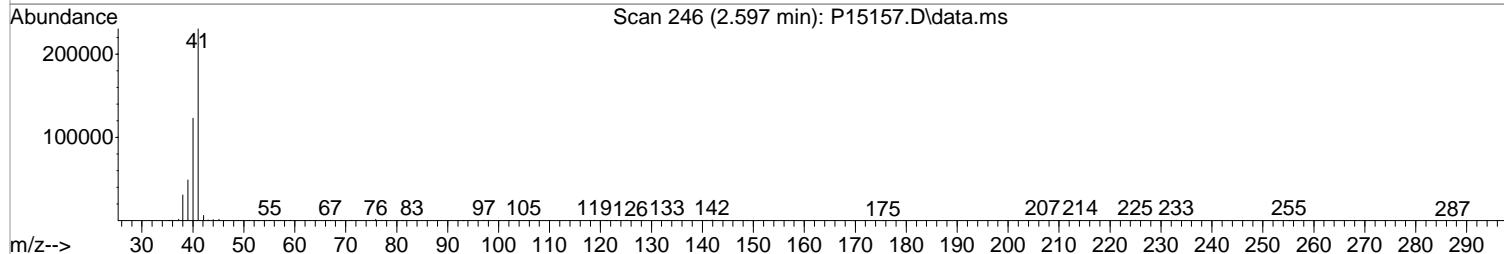
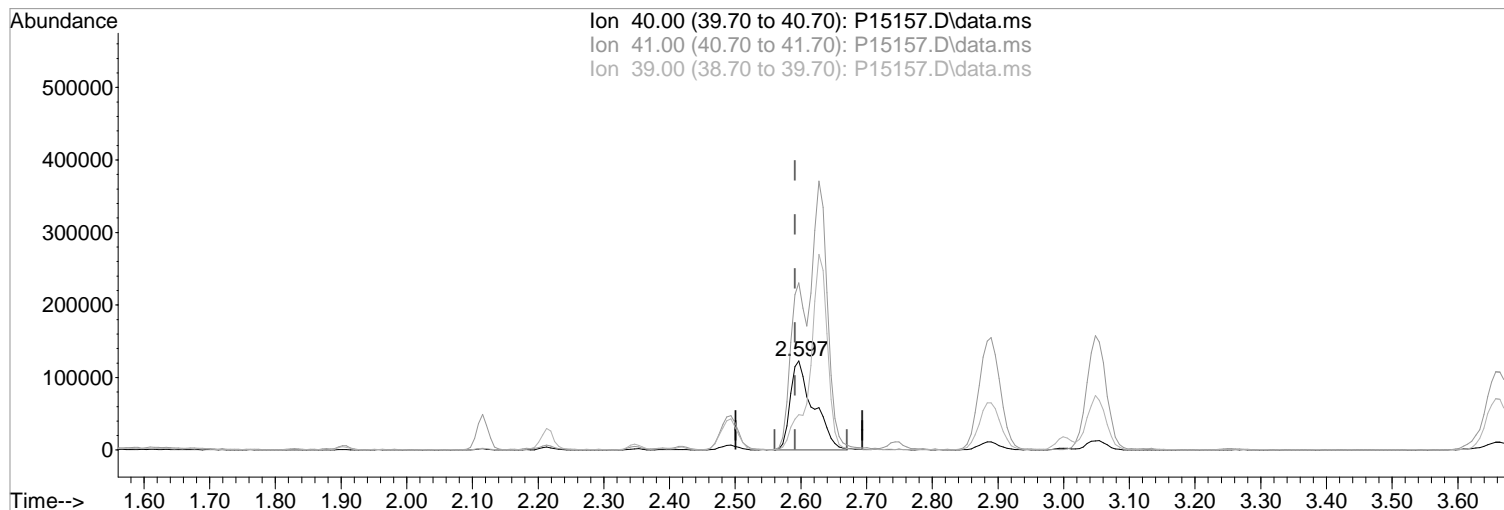
01/02/18

Ion	Exp%	Act%
40.00	100	100
41.00	186.50	187.65
39.00	40.10	39.75
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15157.D  
Acq On : 29 Dec 2017 7:54 pm  
Operator : K.Ruest  
Sample : 150ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:00 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.597min (+0.006) 989.46 ppb  
response 297991

Manual Integration:  
Before

Ion	Exp%	Act%
40.00	100	100
41.00	186.50	187.65
39.00	40.10	39.75
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	292569	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	490455	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	434110	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	247756	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	547527	188.02	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	376.04%#		
48) surr1,1,2-dichloroetha...	5.761	65	734391	184.03	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	368.06%#		
65) SURR3,Toluene-d8	8.291	98	2327638	179.00	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	358.00%#		
70) SURR2,BFB	10.858	95	956833	190.21	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	380.42%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	539738	149.77	ppb	99
3) Chloromethane	1.305	50	622907	140.03	ppb	100
4) Vinyl Chloride	1.384	62	641459	148.03	ppb	98
5) Bromomethane	1.603	94	316635	96.21	ppb	96
6) Chloroethane	1.670	64	374393	138.39	ppb	97
7) Freon 21	1.829	67	814269	144.40	ppb	100
8) Trichlorofluoromethane	1.878	101	602038	144.19	ppb	99
9) Diethyl Ether	2.115	59	416000	143.54	ppb	99
10) Freon 123a	2.115	67	513832	146.71	ppb	99
11) Freon 123	2.170	83	600366	146.80	ppb	100
12) Acrolein	2.213	56	615460	711.56	ppb	99
13) 1,1-Diclcethene	2.298	96	397720	132.35	ppb	99
14) Freon 113	2.304	101	392173	138.10	ppb	99
15) Acetone	2.347	43	258006	145.20	ppb	99
16) 2-Propanol	2.493	45	1065868	3114.04	ppb	97
17) Iodomethane	2.432	142	556437	205.52	ppb	98
18) Carbon Disulfide	2.493	76	1268697	144.75	ppb	99
19) Acetonitrile	2.597	40	238029m	790.36	ppb	
20) Allyl Chloride	2.627	76	201357	125.80	ppb	90
21) Methyl Acetate	2.652	43	462488	145.17	ppb	98
22) Methylene Chloride	2.743	84	445429	140.53	ppb	94
23) TBA	2.890	59	1786989	3028.82	ppb	100
24) Acrylonitrile	2.999	53	1218100	711.32	ppb	98
25) Methyl-t-Butyl Ether	3.048	73	1557430	144.57	ppb	99
26) trans-1,2-Dichloroethene	3.036	96	440239	140.51	ppb	96
28) 1,1-Diclcethane	3.536	63	815707	144.81	ppb	99
29) Vinyl Acetate	3.627	86	122751	132.88	ppb	# 85
30) DIPE	3.658	45	1499391	139.77	ppb	99
31) 2-Chloro-1,3-Butadiene	3.658	53	749401	137.52	ppb	98
32) ETBE	4.182	59	1553259	143.58	ppb	99
33) 2,2-Dichloropropane	4.359	77	693672	138.48	ppb	99
34) cis-1,2-Dichloroethene	4.365	96	506031	136.46	ppb	99
35) 2-Butanone	4.414	43	320247	142.76	ppb	95
36) Propionitrile	4.493	54	514127	706.44	ppb	100
37) Bromochloromethane	4.761	130	288792	141.90	ppb	99
38) Methacrylonitrile	4.761	67	256359	136.00	ppb	97
39) Tetrahydrofuran	4.853	42	194913	149.06	ppb	95
40) Chloroform	4.944	83	758817	124.18	ppb	99
41) 1,1,1-Trichloroethane	5.237	97	663489	138.22	ppb	99

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	1515937	143.56	ppb	99
44) Cyclohexane	5.328	41	445198	139.45	ppb	99
46) Carbontetrachloride	5.517	117	544735	147.96	ppb	96
47) 1,1-Dichloropropene	5.529	75	612237	141.71	ppb	96
49) Benzene	5.846	78	1818984	141.98	ppb	99
50) 1,2-Dichloroethane	5.883	62	682917	145.10	ppb	99
51) Iso-Butyl Alcohol	5.871	43	821240	3159.49	ppb	98
52) n-Heptane	6.334	43	595523	134.29	ppb	98
53) 1-Butanol	6.834	56	1390226	8085.40	ppb	99
54) Trichloroethene	6.797	130	462521	140.77	ppb	97
55) Methylcyclohexane	7.035	55	614887	143.82	ppb	99
56) 1,2-Diclpropane	7.078	63	480907	140.71	ppb	99
57) Dibromomethane	7.218	93	294803	144.48	ppb	100
58) 1,4-Dioxane	7.279	88	212207	3145.58	ppb	99
59) Methyl Methacrylate	7.303	69	446487	142.01	ppb	98
60) Bromodichloromethane	7.444	83	595001	137.22	ppb	97
61) 2-Nitropropane	7.730	41	391518	297.02	ppb	95
62) 2-Chloroethylvinyl Ether	7.852	63	144721	186.53	ppb	96
63) cis-1,3-Dichloropropene	7.992	75	810061	149.24	ppb	99
64) 4-Methyl-2-pentanone	8.200	43	602146	144.44	ppb	97
66) Toluene	8.364	91	1934015	138.98	ppb	100
67) trans-1,3-Dichloropropene	8.632	75	759648	150.23	ppb	99
68) Ethyl Methacrylate	8.773	69	783521	153.64	ppb	98
69) 1,1,2-Trichloroethane	8.821	97	437457	138.37	ppb	97
72) Tetrachloroethene	8.955	164	332311	138.72	ppb	98
73) 2-Hexanone	9.114	43	484165	151.49	ppb	96
74) 1,3-Dichloropropane	8.992	76	791974	141.97	ppb	98
75) Dibromochloromethane	9.218	129	445592	153.05	ppb	99
76) N-Butyl Acetate	9.266	43	968879	161.06	ppb	98
77) 1,2-Dibromoethane	9.315	107	451565	146.01	ppb	100
78) Chlorobenzene	9.809	112	1238808	145.66	ppb	98
79) 3-CBTF	9.827	180	622531	137.28	ppb	99
80) 4-CBTF	9.882	180	562205	135.66	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.900	131	443581	146.72	ppb	97
82) Ethylbenzene	9.931	106	673420	143.42	ppb	# 91
83) (m+p)Xylene	10.047	106	1644308	289.32	ppb	91
84) o-Xylene	10.400	106	825179	145.01	ppb	99
85) Styrene	10.413	104	1451842	151.56	ppb	98
87) Bromoform	10.565	173	317619	146.97	ppb	99
88) 2-CBTF	10.644	180	618636	126.12	ppb	97
89) Isopropylbenzene	10.742	105	2092787	128.56	ppb	97
90) Cyclohexanone	10.803	55	3524297	2846.05	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	197069	152.75	ppb	96
92) 1,1,2,2-Tetrachloroethane	10.998	83	711154	144.76	ppb	97
93) Bromobenzene	10.986	156	525400	131.79	ppb	# 87
94) 1,2,3-Trichloropropane	11.028	110	229053	143.53	ppb	92
95) n-Propylbenzene	11.095	91	2472471	130.63	ppb	98
96) 2-Chlorotoluene	11.156	91	1540580	131.28	ppb	99
97) 3-Chlorotoluene	11.211	91	1619765	130.85	ppb	98
98) 4-Chlorotoluene	11.248	91	1816544	133.98	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	1806839	132.71	ppb	96
100) tert-Butylbenzene	11.522	119	1573501	133.89	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	1867526	136.96	ppb	98
102) 3,4-DCBTF	11.620	214	534041	136.18	ppb	98
103) sec-Butylbenzene	11.705	105	2330647	134.77	ppb	97
104) p-Isopropyltoluene	11.827	119	2002602	137.60	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

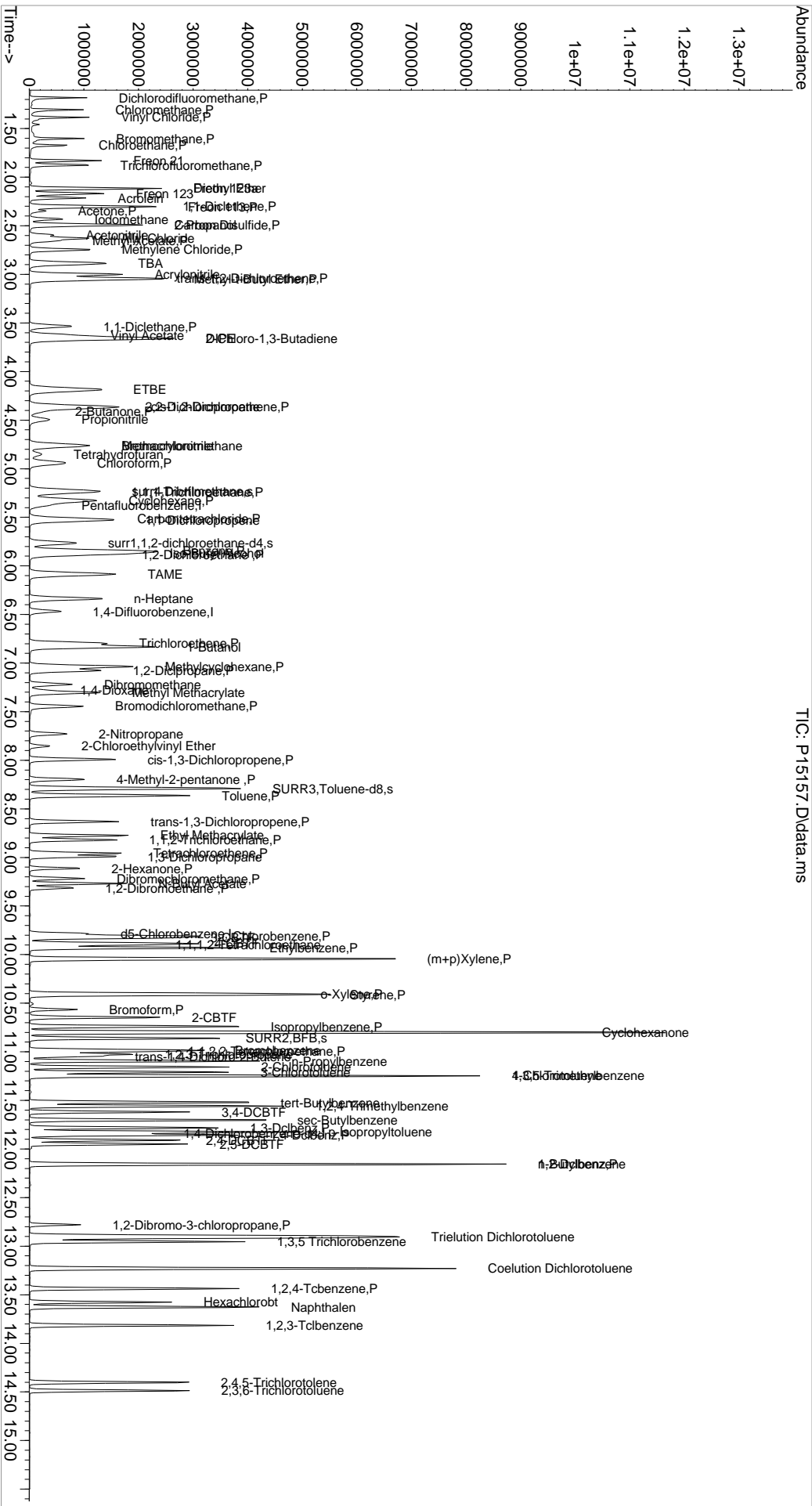
Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	1067793	140.91	ppb	97
106) 1,4-Dclbenz	11.857	146	1100174	138.34	ppb	100
107) 2,4-DCBTF	11.912	214	504051	138.72	ppb	96
108) 2,5-DCBTF	11.949	214	565452	145.64	ppb	98
109) n-Butylbenzene	12.156	91	1957468	144.19	ppb	97
110) 1,2-Dclbenz	12.156	146	1119097	147.96	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.778	157	188568	152.33	ppb	89
112) Trielution Dichlorotol...	12.906	125	3274890	440.19	ppb	95
113) 1,3,5 Trichlorobenzene	12.955	180	873495	148.34	ppb	99
114) Coelution Dichlorotoluene	13.229	125	2410195	305.46	ppb	98
115) 1,2,4-Tcbenzene	13.436	180	872721	158.74	ppb	96
116) Hexachlorobt	13.577	225	365403	143.18	ppb	99
117) Naphthalen	13.625	128	2437047	160.66	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	838162	156.95	ppb	99
119) 2,4,5-Trichlorotolene	14.400	159	607215	187.55	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	543243	184.61	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 9 Sample Multiplier: 1  
 Inst : MSVOA-12  
 Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	290912	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	487367	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	437596	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	247869	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.225	113	144272	49.86	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	99.72%
48) surr1,1,2-dichloroetha...	5.767	65	197998	49.93	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	99.86%
65) SURR3,Toluene-d8	8.291	98	644017	49.84	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	99.68%
70) SURR2,BFB	10.858	95	257652	51.54	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	103.08%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	751240	209.65	ppb	98
3) Chloromethane	1.305	50	842475	190.47	ppb	99
4) Vinyl Chloride	1.384	62	868455	201.56	ppb	100
5) Bromomethane	1.603	94	461003	140.87	ppb	96
6) Chloroethane	1.683	64	527822	196.21	ppb	97
7) Freon 21	1.835	67	1111626	198.26	ppb	100
8) Trichlorofluoromethane	1.878	101	821925	197.97	ppb	99
9) Diethyl Ether	2.115	59	566315	196.52	ppb	99
10) Freon 123a	2.115	67	693482	199.14	ppb	98
11) Freon 123	2.170	83	806074	198.22	ppb	99
12) Acrolein	2.213	56	845277	982.83	ppb	98
13) 1,1-Diclcethene	2.304	96	547719	183.30	ppb	96
14) Freon 113	2.311	101	538979	190.88	ppb	98
15) Acetone	2.347	43	351188	198.76	ppb	98
16) 2-Propanol	2.481	45	1373962	4037.03	ppb	100
17) Iodomethane	2.432	142	808369	300.27	ppb	100
18) Carbon Disulfide	2.493	76	1729359	198.43	ppb	99
19) Acetonitrile	2.591	40	294271	982.67	ppb	99
20) Allyl Chloride	2.634	76	289745	182.05	ppb	98
21) Methyl Acetate	2.652	43	628591	198.43	ppb	98
22) Methylene Chloride	2.749	84	610961	193.85	ppb	98
23) TBA	2.884	59	2296991	3915.41	ppb	100
24) Acrylonitrile	2.999	53	1645062	966.12	ppb	100
25) Methyl-t-Butyl Ether	3.048	73	2091958	195.29	ppb	98
26) trans-1,2-Dichloroethene	3.042	96	599623	192.48	ppb	98
28) 1,1-Diclcethane	3.536	63	1099476	196.30	ppb	100
29) Vinyl Acetate	3.627	86	169659	184.71	ppb	# 86
30) DIPE	3.664	45	2008391	188.29	ppb	96
31) 2-Chloro-1,3-Butadiene	3.658	53	1021309	188.49	ppb	98
32) ETBE	4.188	59	2094666	194.73	ppb	99
33) 2,2-Dichloropropane	4.365	77	944252	189.58	ppb	98
34) cis-1,2-Dichloroethene	4.371	96	679606	184.32	ppb	99
35) 2-Butanone	4.408	43	437404	196.10	ppb	99
36) Propionitrile	4.493	54	675244	933.11	ppb	99
37) Bromochloromethane	4.761	130	397989	196.67	ppb	95
38) Methacrylonitrile	4.767	67	343737	183.40	ppb	95
39) Tetrahydrofuran	4.853	42	263268	202.48	ppb	95
40) Chloroform	4.944	83	1035776	170.47	ppb	99
41) 1,1,1-Trichloroethane	5.243	97	903387	189.27	ppb	99

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	2037262	194.02	ppb	99
44) Cyclohexane	5.328	41	604103	190.42	ppb	95
46) Carbontetrachloride	5.517	117	735485	201.04	ppb	97
47) 1,1-Dichloropropene	5.529	75	842599	196.27	ppb	97
49) Benzene	5.846	78	2449784	192.43	ppb	99
50) 1,2-Dichloroethane	5.883	62	902735	193.02	ppb	98
51) Iso-Butyl Alcohol	5.865	43	1039787	4025.64	ppb	100
52) n-Heptane	6.340	43	845487	191.86	ppb	97
53) 1-Butanol	6.834	56	1754566	10269.01	ppb	99
54) Trichloroethene	6.797	130	629327	192.75	ppb	96
55) Methylcyclohexane	7.035	55	841747	198.13	ppb	99
56) 1,2-Diclpropane	7.078	63	656968	193.44	ppb	99
57) Dibromomethane	7.218	93	394147	194.39	ppb	99
58) 1,4-Dioxane	7.279	88	271954	4056.76	ppb	99
59) Methyl Methacrylate	7.303	69	602614	192.88	ppb	99
60) Bromodichloromethane	7.444	83	805927	187.04	ppb	97
61) 2-Nitropropane	7.730	41	530882	405.30	ppb	96
62) 2-Chloroethylvinyl Ether	7.852	63	197975	256.79	ppb	99
63) cis-1,3-Dichloropropene	7.992	75	1093652	202.76	ppb	98
64) 4-Methyl-2-pentanone	8.200	43	818222	197.52	ppb	98
66) Toluene	8.364	91	2622312	189.63	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	1036667	206.31	ppb	99
68) Ethyl Methacrylate	8.773	69	1047414	206.69	ppb	100
69) 1,1,2-Trichloroethane	8.821	97	587034	186.86	ppb	98
72) Tetrachloroethene	8.956	164	452798	187.50	ppb	98
73) 2-Hexanone	9.114	43	645998	200.51	ppb	95
74) 1,3-Dichloropropane	8.992	76	1085040	192.96	ppb	96
75) Dibromochloromethane	9.218	129	608537	207.35	ppb	100
76) N-Butyl Acetate	9.266	43	1292182	213.09	ppb	98
77) 1,2-Dibromoethane	9.315	107	614032	196.96	ppb	97
78) Chlorobenzene	9.809	112	1680665	196.04	ppb	97
79) 3-CBTF	9.827	180	876297	191.70	ppb	97
80) 4-CBTF	9.882	180	784651	187.83	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.900	131	608273	199.59	ppb	97
82) Ethylbenzene	9.931	106	929718	196.43	ppb	# 89
83) (m+p)Xylene	10.047	106	2264539	395.27	ppb	# 84
84) o-Xylene	10.400	106	1136660	198.16	ppb	96
85) Styrene	10.413	104	1971122	204.13	ppb	97
87) Bromoform	10.565	173	430898	199.29	ppb	99
88) 2-CBTF	10.644	180	864752	176.21	ppb	98
89) Isopropylbenzene	10.742	105	2851948	175.12	ppb	96
90) Cyclohexanone	10.803	55	4382480	3537.46	ppb	93
91) trans-1,4-Dichloro-2-B...	11.047	53	262051	203.03	ppb	97
92) 1,1,2,2-Tetrachloroethane	10.998	83	927526	188.72	ppb	97
93) Bromobenzene	10.986	156	721898	180.99	ppb	# 87
94) 1,2,3-Trichloropropane	11.028	110	298297	186.83	ppb	# 90
95) n-Propylbenzene	11.095	91	3339751	176.37	ppb	96
96) 2-Chlorotoluene	11.156	91	2098787	178.77	ppb	99
97) 3-Chlorotoluene	11.211	91	2217961	179.09	ppb	99
98) 4-Chlorotoluene	11.248	91	2483738	183.11	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	2494924	183.17	ppb	95
100) tert-Butylbenzene	11.522	119	2187207	186.03	ppb	98
101) 1,2,4-Trimethylbenzene	11.559	105	2528724	185.37	ppb	96
102) 3,4-DCBTF	11.620	214	739979	188.61	ppb	98
103) sec-Butylbenzene	11.705	105	3183145	183.98	ppb	95
104) p-Isopropyltoluene	11.827	119	2749131	188.81	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 10 Sample Multiplier: 1

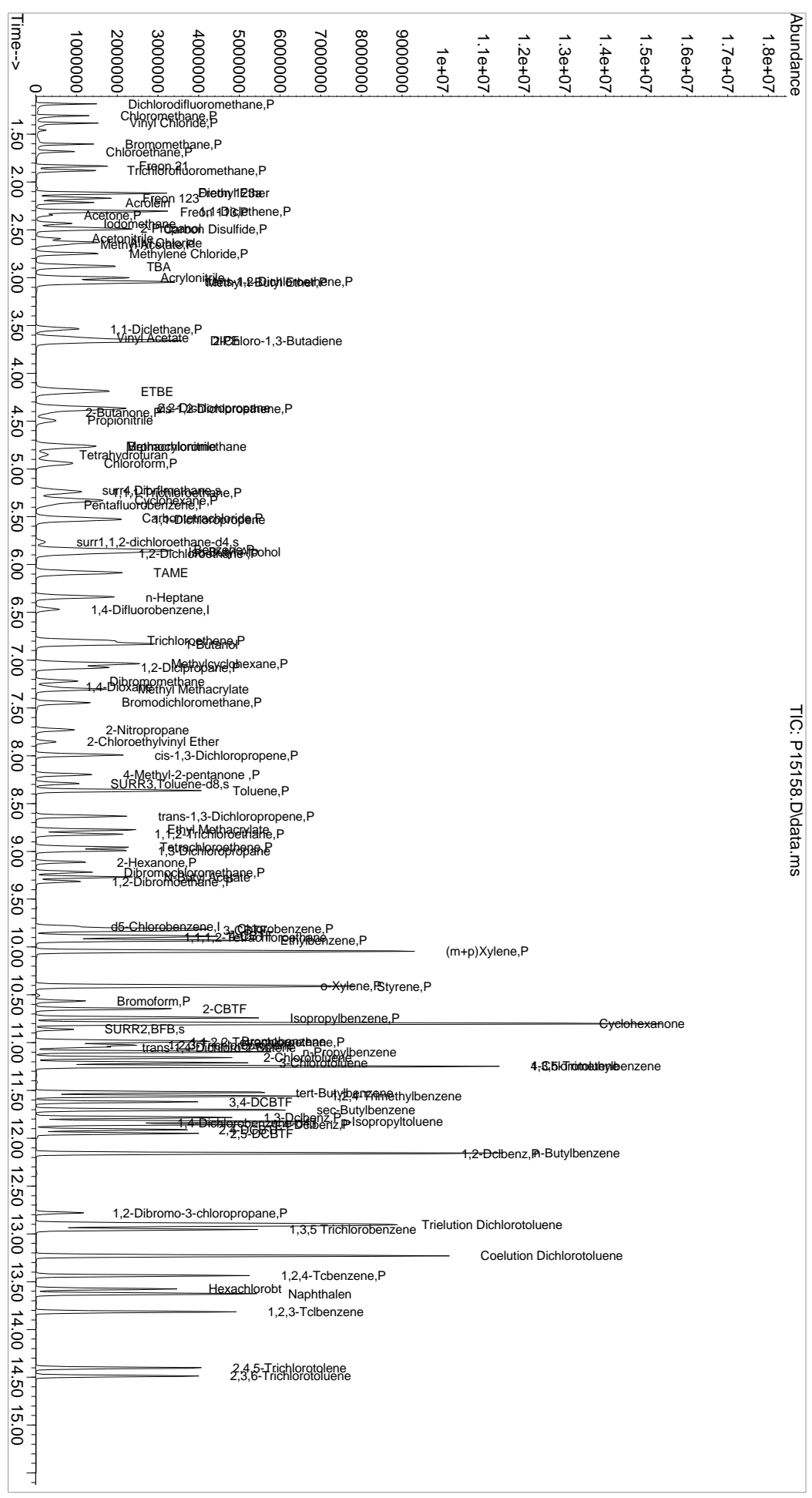
Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	1435051	189.28	ppb	97
106) 1,4-Dclbenz	11.857	146	1475977	185.51	ppb	98
107) 2,4-DCBTF	11.912	214	693879	190.88	ppb	98
108) 2,5-DCBTF	11.949	214	774579	199.41	ppb	97
109) n-Butylbenzene	12.156	91	2655114	195.50	ppb	96
110) 1,2-Dclbenz	12.162	146	1466109	193.75	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.784	157	244588	197.50	ppb	99
112) Trielution Dichlorotol...	12.900	125	4327505	581.41	ppb	98
113) 1,3,5 Trichlorobenzene	12.955	180	1187560	201.58	ppb	99
114) Coelution Dichlorotoluene	13.229	125	3153338	399.46	ppb	96
115) 1,2,4-Tcbenzene	13.436	180	1152706	209.58	ppb	98
116) Hexachlorobt	13.577	225	488363	191.28	ppb	98
117) Naphthalen	13.625	128	3152851	207.75	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	1096108	205.16	ppb	98
119) 2,4,5-Trichlorotolene	14.400	159	813315	251.10	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	743055	252.39	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 10 Sample Multiplier: 1  
 Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	101	0.00
2 P	Dichlorodifluoromethane	50.0000	38.3364	23.3#	72	0.00
3 P	Chloromethane	50.0000	43.5025	13.0	91	0.00
4 P	Vinyl Chloride	50.0000	46.7558	6.5	93	0.00
5 P	Bromomethane	50.0000	45.3858	9.2	107	0.00
6 P	Chloroethane	50.0000	46.6469	6.7	94	0.00
7	Freon 21	50.0000	51.8310	-3.7	104	0.00
8 P	Trichlorofluoromethane	50.0000	51.8442	-3.7	105	0.00
9	Diethyl Ether	50.0000	47.8708	4.3	102	0.00
10	Freon 123a	50.0000	55.1162	-10.2	113	0.00
11	Freon 123	50.0000	52.3280	-4.7	107	0.00
12	Acrolein	250.0000	64.4076	74.2#	27	0.00
13 P	1,1-Dicethene	50.0000	45.0181	10.0	99	0.00
14 P	Freon 113	50.0000	46.5695	6.9	98	0.00
15 P	Acetone	50.0000	48.4806	3.0	98	0.00
16	2-Propanol	1000.0000	989.1796	1.1	108	0.00
17	Iodomethane	50.0000	36.5844	26.8#	69	0.00
18 P	Carbon Disulfide	50.0000	45.9999	8.0	92	0.00
19	Acetonitrile	250.0000	236.9515	5.2	103	0.00
20	Allyl Chloride	50.0000	46.6651	6.7	99	0.00
21 P	Methyl Acetate	50.0000	50.2279	-0.5	107	0.00
22 P	Methylene Chloride	50.0000	48.2385	3.5	101	0.00
23	TBA	1000.0000	965.5453	3.4	104	0.00
24	Acrylonitrile	250.0000	238.6045	4.6	102	0.00
25 P	Methyl-t-Butyl Ether	50.0000	47.8966	4.2	99	0.00
26 P	trans-1,2-Dichloroethene	50.0000	47.9361	4.1	99	0.00
27	Halothane	-1.0000	0.0000	0.0	0	-4.00#
28 P	1,1-Dicethane	50.0000	49.5055	1.0	102	0.00
29	Vinyl Acetate	50.0000	43.1364	13.7	90	0.00
30	DIPE	50.0000	46.6654	6.7	97	0.00
31	2-Chloro-1,3-Butadiene	50.0000	45.4804	9.0	96	-0.01
32	ETBE	50.0000	48.2001	3.6	96	0.01
33	2,2-Dichloropropane	50.0000	46.2159	7.6	98	0.00
34 P	cis-1,2-Dichloroethene	50.0000	47.9734	4.1	100	0.00
35 P	2-Butanone	50.0000	46.9551	6.1	97	0.00
36	Propionitrile	250.0000	229.3379	8.3	101	-0.01
37	Bromochloromethane	50.0000	48.8549	2.3	105	0.01
38	Methacrylonitrile	50.0000	51.9388	-3.9	107	0.00
39	Tetrahydrofuran	50.0000	50.6503	-1.3	104	0.00
40 P	Chloroform	50.0000	47.1963	5.6	104	0.00
41 P	1,1,1-Trichloroethane	50.0000	48.2984	3.4	105	0.01
42	TAME	50.0000	48.8381	2.3	99	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	102	0.00
44 P	Cyclohexane	50.0000	46.1498	7.7	99	0.00
45 s	surr4,Dibrflmethane	50.0000	49.6375	0.7	101	0.00
46 P	Carbontetrachloride	50.0000	50.9593	-1.9	103	0.00
47	1,1-Dichloropropene	50.0000	49.5886	0.8	103	0.01
48 s	surr1,1,2-dichloroethane-d4	50.0000	49.5422	0.9	100	0.00
49 P	Benzene	50.0000	49.4920	1.0	103	0.00
50 P	1,2-Dichloroethane	50.0000	48.0812	3.8	100	0.00
51	Iso-Butyl Alcohol	1000.0000	945.5165	5.4	102	0.00



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	44.9998	10.0	93	0.02
53	1-Butanol	2500.0000	2494.2713	0.2	103	-0.01
54 P	Trichloroethene	50.0000	50.4687	-0.9	103	0.00
55 P	Methylcyclohexane	50.0000	49.0548	1.9	98	0.00
56 P	1,2-Diclp propane	50.0000	48.4676	3.1	102	0.01
57	Dibromomethane	50.0000	47.8199	4.4	100	0.00
58	1,4-Dioxane	1000.0000	976.8829	2.3	107	0.00
59	Methyl Methacrylate	50.0000	48.3817	3.2	103	-0.01
60 P	Bromodichloromethane	50.0000	48.1066	3.8	105	0.00
61	2-Nitropropane	100.0000	92.4985	7.5	98	0.00
62	2-Chloroethylvinyl Ether	50.0000	50.4464	-0.9	106	0.00
63 P	cis-1,3-Dichloropropene	50.0000	49.6107	0.8	99	0.00
64 P	4-Methyl-2-pentanone	50.0000	46.1898	7.6	96	0.00
65 s	SURR3,Toluene-d8	50.0000	49.1066	1.8	100	0.00
66 P	Toluene	50.0000	49.7158	0.6	103	0.00
67 P	trans-1,3-Dichloropropene	50.0000	50.2479	-0.5	101	0.00
68	Ethyl Methacrylate	50.0000	51.7282	-3.5	104	0.00
69 P	1,1,2-Trichloroethane	50.0000	47.0703	5.9	104	0.00
70 s	SURR2,BFB	50.0000	48.1879	3.6	100	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	102	0.00
72 P	Tetrachloroethene	50.0000	47.6152	4.8	101	-0.01
73 P	2-Hexanone	50.0000	46.7916	6.4	97	0.00
74	1,3-Dichloropropane	50.0000	48.6785	2.6	100	0.00
75 P	Dibromochloromethane	50.0000	50.3673	-0.7	102	0.00
76	N-Butyl Acetate	50.0000	53.6467	-7.3	104	-0.01
77 P	1,2-Dibromoethane	50.0000	48.5922	2.8	100	0.00
78 P	Chlorobenzene	50.0000	51.3244	-2.6	104	0.00
79	3-CBTF	50.0000	47.1241	5.8	100	0.00
80	4-CBTF	50.0000	45.9124	8.2	99	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	49.5753	0.8	103	0.00
82 P	Ethylbenzene	50.0000	49.8294	0.3	103	0.00
83 P	(m+p)Xylene	100.0000	100.6183	-0.6	103	0.00
84 P	o-Xylene	50.0000	49.7286	0.5	101	0.00
85 P	Styrene	50.0000	51.1258	-2.3	101	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	103	0.00
87 P	Bromoform	50.0000	49.8785	0.2	104	0.00
88	2-CBTF	50.0000	48.2256	3.5	100	0.00
89 P	Isopropylbenzene	50.0000	49.4973	1.0	101	0.00
90	Cyclohexanone	1000.0000	765.2859	23.5#	81	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	53.5761	-7.2	113	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	47.7556	4.5	102	0.00
93	Bromobenzene	50.0000	49.0177	2.0	103	0.00
94	1,2,3-Trichloropropane	50.0000	49.2272	1.5	103	0.00
95	n-Propylbenzene	50.0000	50.5206	-1.0	101	0.00
96	2-Chlorotoluene	50.0000	51.3652	-2.7	107	0.00
97	3-Chlorotoluene	50.0000	49.1502	1.7	100	0.00
98	4-Chlorotoluene	50.0000	49.2336	1.5	101	0.00
99	1,3,5-Trimethylbenzene	50.0000	51.3216	-2.6	104	0.00
100	tert-Butylbenzene	50.0000	50.1446	-0.3	102	0.00
101	1,2,4-Trimethylbenzene	50.0000	52.0713	-4.1	105	0.00



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	48.0202	4.0	96	0.00
103	sec-Butylbenzene	50.0000	50.8496	-1.7	102	0.00
104	p-Isopropyltoluene	50.0000	51.7027	-3.4	104	0.00
105 P	1,3-Dclbenz	50.0000	50.3245	-0.6	103	0.00
106 P	1,4-Dclbenz	50.0000	49.3074	1.4	105	0.00
107	2,4-DCBTF	50.0000	47.7617	4.5	99	0.00
108	2,5-DCBTF	50.0000	47.4753	5.0	98	0.00
109	n-Butylbenzene	50.0000	52.8775	-5.8	105	0.00
110 P	1,2-Dclbenz	50.0000	50.8620	-1.7	104	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	47.4017	5.2	107	0.00
112	Trielution Dichlorotoluene	150.0000	148.2131	1.2	99	0.00
113	1,3,5 Trichlorobenzene	50.0000	50.3797	-0.8	101	0.00
114	Coelution Dichlorotoluene	100.0000	103.4644	-3.5	100	0.00
115 P	1,2,4-Tcbenzene	50.0000	52.6198	-5.2	103	0.00
116	Hexachlorobt	50.0000	48.8387	2.3	102	0.00
117	Naphthalen	50.0000	55.9552	-11.9	106	0.00
118	1,2,3-Tclbenzene	50.0000	54.0830	-8.2	106	0.00
119	2,4,5-Trichlorotolene	50.0000	53.9078	-7.8	99	0.00
120	2,3,6-Trichlorotoluene	50.0000	54.8488	-9.7	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/18/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1800013-01	1.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4451.D	01/18/2018 12:52
02	RC1800013-02	2.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4452.D	01/18/2018 13:15
03	RC1800013-03	5.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4453.D	01/18/2018 13:38
05	RC1800013-05	50 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4455.D	01/18/2018 14:24
06	RC1800013-06	100 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4456.D	01/18/2018 14:48
07	RC1800013-07	150 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4457.D	01/18/2018 15:11
08	RC1800013-08	200 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4458.D	01/18/2018 15:34
04	RC1800013-04	20 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4464.D	01/18/2018 16:23

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7173	02	2.000	0.8332	03	5.000	0.7759	04	20.000	0.7167
05	50.000	0.7552	06	100.000	0.7674	07	150.000	0.8142	08	200.000	0.8219

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9305	02	2.000	0.982	03	5.000	0.9427	04	20.000	0.9741
05	50.000	0.9648	06	100.000	0.9299	07	150.000	0.9334	08	200.000	0.9726

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3382	02	2.000	0.3319	03	5.000	0.3233	04	20.000	0.3111
05	50.000	0.3088	06	100.000	0.3075	07	150.000	0.314	08	200.000	0.3205

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4493	02	2.000	0.4784	03	5.000	0.4304	04	20.000	0.3674
05	50.000	0.4095	06	100.000	0.4204	07	150.000	0.466	08	200.000	0.4602

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.8808	02	2.000	0.9431	03	5.000	0.8728	04	20.000	0.868
05	50.000	0.8419	06	100.000	0.8502	07	150.000	0.9027	08	200.000	0.9113

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.461	02	2.000	0.4675	03	5.000	0.4204	04	20.000	0.4027
05	50.000	0.4155	06	100.000	0.4275	07	150.000	0.4612	08	200.000	0.4601

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.325	02	2.000	1.266	03	5.000	1.199	04	20.000	1.274
05	50.000	1.175	06	100.000	1.126	07	150.000	1.186	08	200.000	1.207

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/18/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.425	02	2.000	1.37	03	5.000	1.247	04	20.000	1.344
05	50.000	1.234	06	100.000	1.18	07	150.000	1.272	08	200.000	1.282

1,2,4-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.005	02	2.000	3.055	03	5.000	2.718	04	20.000	2.89
05	50.000	2.817	06	100.000	2.742	07	150.000	2.984	08	200.000	2.998

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1868	02	2.000	0.2072	03	5.000	0.2038	04	20.000	0.225
05	50.000	0.2355	06	100.000	0.2289	07	150.000	0.2244	08	200.000	0.2422

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3526	02	2.000	0.3666	03	5.000	0.3574	04	20.000	0.3576
05	50.000	0.3627	06	100.000	0.3667	07	150.000	0.3707	08	200.000	0.3849

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.755	02	2.000	1.748	03	5.000	1.63	04	20.000	1.729
05	50.000	1.624	06	100.000	1.579	07	150.000	1.664	08	200.000	1.693

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5081	02	2.000	0.5383	03	5.000	0.4986	04	20.000	0.4858
05	50.000	0.4743	06	100.000	0.4733	07	150.000	0.4839	08	200.000	0.4881

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3782	02	2.000	0.3798	03	5.000	0.3542	04	20.000	0.3538
05	50.000	0.3377	06	100.000	0.3428	07	150.000	0.3598	08	200.000	0.3639

1,3,5-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.99	02	2.000	2.992	03	5.000	2.72	04	20.000	2.786
05	50.000	2.757	06	100.000	2.7	07	150.000	2.979	08	200.000	2.981

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.907	02	2.000	1.794	03	5.000	1.615	04	20.000	1.777
05	50.000	1.644	06	100.000	1.593	07	150.000	1.74	08	200.000	1.751

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.048	02	2.000	1.843	03	5.000	1.667	04	20.000	1.817
05	50.000	1.692	06	100.000	1.601	07	150.000	1.75	08	200.000	1.756

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/18/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,4-Dioxane											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.005528	02	40.000	0.006114	03	100.000	0.005834	04	400.000	0.005578
05	1000.000	0.005899	06	2000.000	0.005811	07	3000.000	0.005761	08	4000.000	0.005588

2-Butanone (MEK)											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	0.3508	04	20.000	0.2786	05	50.000	0.2976	06	100.000	0.2963
07	150.000	0.3082	08	200.000	0.3072						

2-Hexanone											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2983	02	2.000	0.3381	03	5.000	0.3279	04	20.000	0.3132
05	50.000	0.3392	06	100.000	0.3416	07	150.000	0.3456	08	200.000	0.3505

4-Isopropyltoluene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.369	02	2.000	3.263	03	5.000	2.992	04	20.000	2.904
05	50.000	3.036	06	100.000	3	07	150.000	3.344	08	200.000	3.344

4-Methyl-2-pentanone											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3982	02	2.000	0.442	03	5.000	0.4237	04	20.000	0.3761
05	50.000	0.3999	06	100.000	0.4078	07	150.000	0.4064	08	200.000	0.4129

Acetone											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	0.2738	04	20.000	0.2178	05	50.000	0.2307	06	100.000	0.2063
07	150.000	0.2233	08	200.000	0.2074						

Benzene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.417	02	2.000	1.376	03	5.000	1.292	04	20.000	1.26
05	50.000	1.237	06	100.000	1.249	07	150.000	1.337	08	200.000	1.327

Bromochloromethane											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3679	02	2.000	0.3619	03	5.000	0.3558	04	20.000	0.3579
05	50.000	0.3242	06	100.000	0.3245	07	150.000	0.3343	08	200.000	0.3372

Bromodichloromethane											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4869	02	2.000	0.4653	03	5.000	0.4485	04	20.000	0.4527
05	50.000	0.4467	06	100.000	0.4505	07	150.000	0.4745	08	200.000	0.4809

Bromoform											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.254	02	2.000	0.2474	03	5.000	0.2495	04	20.000	0.2647
05	50.000	0.2756	06	100.000	0.2756	07	150.000	0.2828	08	200.000	0.3034

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QA/QC Report

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Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4563	02	2.000	0.4455	03	5.000	0.3988	04	20.000	0.4168
05	50.000	0.3504	06	100.000	0.2994	07	150.000	0.3163	08	200.000	0.2776

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.71	02	2.000	1.57	03	5.000	1.43	04	20.000	1.468
05	50.000	1.369	06	100.000	1.373	07	150.000	1.52	08	200.000	1.53

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1525	02	2.000	0.1454	03	5.000	0.1411	04	20.000	0.1238
05	50.000	0.1326	06	100.000	0.1379	07	150.000	0.1474	08	200.000	0.1483

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.159	02	2.000	1.125	03	5.000	1.068	04	20.000	1.091
05	50.000	1.042	06	100.000	1.042	07	150.000	1.099	08	200.000	1.11

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3734	02	2.000	0.3204	03	5.000	0.3149	04	20.000	0.3447
05	50.000	0.3505	06	100.000	0.2764	07	150.000	0.2654	08	200.000	0.3609

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9401	02	2.000	0.9289	03	5.000	0.8823	04	20.000	0.8815
05	50.000	0.8525	06	100.000	0.8639	07	150.000	0.9023	08	200.000	0.913

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.996	02	2.000	0.8852	03	5.000	0.7446	04	20.000	0.6964
05	50.000	0.7316	06	100.000	0.6956	07	150.000	0.7287	08	200.000	0.7161

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3169	02	2.000	0.3622	03	5.000	0.3521	04	20.000	0.3117
05	50.000	0.3285	06	100.000	0.3295	07	150.000	0.3502	08	200.000	0.345

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4016	02	2.000	0.399	03	5.000	0.3815	04	20.000	0.3983
05	50.000	0.4009	06	100.000	0.4086	07	150.000	0.4215	08	200.000	0.4411

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6044	02	2.000	0.6074	03	5.000	0.5567	04	20.000	0.608
05	50.000	0.649	06	100.000	0.6613	07	150.000	0.7142	08	200.000	0.7111

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QA/QC Report

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Analyte

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5874	02	2.000	0.5777	03	5.000	0.4982	04	20.000	0.5016
05	50.000	0.4807	06	100.000	0.4866	07	150.000	0.5131	08	200.000	0.5211

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6005	02	2.000	0.5998	03	5.000	0.5878	04	20.000	0.5441
05	50.000	0.5412	06	100.000	0.5441	07	150.000	0.5771	08	200.000	0.5921

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.902	02	2.000	1.937	03	5.000	1.813	04	20.000	1.685
05	50.000	1.766	06	100.000	1.776	07	150.000	1.883	08	200.000	1.935

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4043	02	2.000	0.4424	03	5.000	0.4549	04	20.000	0.3856
05	50.000	0.4294	06	100.000	0.4352	07	150.000	0.4501	08	200.000	0.4479

Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.531	02	2.000	1.707	03	5.000	1.61	04	20.000	1.607
05	50.000	1.592	06	100.000	1.597	07	150.000	1.611	08	200.000	1.653

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5322	02	2.000	0.5295	03	5.000	0.4647	04	20.000	0.4295
05	50.000	0.4506	06	100.000	0.4419	07	150.000	0.4914	08	200.000	0.4783

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.26	02	2.000	1.233	03	5.000	1.202	04	20.000	1.228
05	50.000	1.19	06	100.000	1.183	07	150.000	1.25	08	200.000	1.279

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4008	02	2.000	0.3414	03	5.000	0.3215	04	20.000	0.294
05	50.000	0.3069	06	100.000	0.3087	07	150.000	0.3338	08	200.000	0.3352

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.488	02	2.000	1.5	03	5.000	1.406	04	20.000	1.396
05	50.000	1.363	06	100.000	1.373	07	150.000	1.47	08	200.000	1.47

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4004	02	2.000	0.3978	03	5.000	0.3643	04	20.000	0.3408
05	50.000	0.3381	06	100.000	0.3413	07	150.000	0.3679	08	200.000	0.365

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QA/QC Report

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Service Request: R1801334  
Calibration Date: 1/18/2018

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Volatile Organic Compounds by GC/MS

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Analyte

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7386	02	2.000	0.7307	03	5.000	0.6726	04	20.000	0.6036
05	50.000	0.6544	06	100.000	0.643	07	150.000	0.6864	08	200.000	0.6964

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5563	02	2.000	0.6269	03	5.000	0.5809	04	20.000	0.5727
05	50.000	0.5745	06	100.000	0.5819	07	150.000	0.6226	08	200.000	0.624

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6433	02	2.000	0.5977	03	5.000	0.5485	04	20.000	0.5596
05	50.000	0.5429	06	100.000	0.5482	07	150.000	0.574	08	200.000	0.584

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5561	02	2.000	0.5844	03	5.000	0.5829	04	20.000	0.5816
05	50.000	0.5751	06	100.000	0.5789	07	150.000	0.6133	08	200.000	0.6164

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7713	02	4.000	0.7502	03	10.000	0.7062	04	40.000	0.6856
05	100.000	0.6816	06	200.000	0.683	07	300.000	0.7245	08	400.000	0.7418

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.059	02	2.000	3.063	03	5.000	2.701	04	20.000	2.597
05	50.000	2.774	06	100.000	2.711	07	150.000	3.112	08	200.000	3.089

n-Propylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.962	02	2.000	4.114	03	5.000	3.789	04	20.000	3.699
05	50.000	3.783	06	100.000	3.706	07	150.000	4.149	08	200.000	4.098

o-Xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7544	02	2.000	0.7403	03	5.000	0.6897	04	20.000	0.7037
05	50.000	0.6795	06	100.000	0.6768	07	150.000	0.7133	08	200.000	0.7277

sec-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.778	02	2.000	3.785	03	5.000	3.57	04	20.000	3.287
05	50.000	3.559	06	100.000	3.536	07	150.000	3.941	08	200.000	3.913

tert-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.604	02	2.000	2.558	03	5.000	2.426	04	20.000	2.309
05	50.000	2.456	06	100.000	2.409	07	150.000	2.62	08	200.000	2.633



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Signal ID: 1

**Analyte**

**trans-1,2-Dichloroethene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5594	02	2.000	0.5295	03	5.000	0.4961	04	20.000	0.4707
05	50.000	0.4671	06	100.000	0.4717	07	150.000	0.5056	08	200.000	0.5096

**trans-1,3-Dichloropropene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4913	02	2.000	0.5576	03	5.000	0.5219	04	20.000	0.5407
05	50.000	0.5363	06	100.000	0.5448	07	150.000	0.5661	08	200.000	0.5741

**4-Bromofluorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.537	04	20.000	0.4529	05	50.000	0.4839	06	100.000	0.472
07	200.000	0.456									

**Dibromofluoromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.3303	04	20.000	0.2789	05	50.000	0.3134	06	100.000	0.3225
07	200.000	0.3118									

**Toluene-d8**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	1.262	04	20.000	1.096	05	50.000	1.208	06	100.000	1.21
07	200.000	1.176									

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Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	5.8	20	0.7752	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	2.3	20	0.9537	0.300
1,1,2-Trichloroethane	TRG	Average RF	% RSD	3.5	20	0.3194	0.100
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	8.3	20	0.4352	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	3.8	20	0.8839	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	5.8	20	0.4395	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	5.3	20	1.22	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	6.2	20	1.294	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	4.5	20	2.901	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	8.4	20	0.2192	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	2.7	20	0.3649	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.8	20	1.678	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	4.3	20	0.4938	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	4.2	20	0.3588	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	4.7	20	2.863	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	6.1	20	1.728	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	7.7	20	1.772	0.500
1,4-Dioxane	TRG	Average RF	% RSD	3.4	20	0.005764	
2-Butanone (MEK)	TRG	Average RF	% RSD	7.9	20	0.3065	0.05
2-Hexanone	TRG	Average RF	% RSD	5.4	20	0.3318	0.05
4-Isopropyltoluene	TRG	Average RF	% RSD	6.1	20	3.156	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	4.7	20	0.4084	0.05
Acetone	TRG	Average RF	% RSD	11.0	20	0.2266	0.05
Benzene	TRG	Average RF	% RSD	4.9	20	1.312	0.500
Bromochloromethane	TRG	Average RF	% RSD	5.0	20	0.3454	
Bromodichloromethane	TRG	Average RF	% RSD	3.4	20	0.4633	0.200
Bromoform	TRG	Average RF	% RSD	7.1	20	0.2691	0.100
Bromomethane	TRG	Quadratic	COD	0.9929	0.99	0.3701	0.100
Carbon Disulfide	TRG	Average RF	% RSD	7.5	20	1.496	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	6.7	20	0.1411	0.05
Chlorobenzene	TRG	Average RF	% RSD	3.7	20	1.092	0.500
Chloroethane	TRG	Average RF	% RSD	12.0	20	0.3258	0.100
Chloroform	TRG	Average RF	% RSD	3.4	20	0.8956	0.200
Chloromethane	TRG	Average RF	% RSD	14.0	20	0.7743	0.100

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**Calibration ID:** RC1800013  
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Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Cyclohexane	TRG	Average RF	% RSD	5.4	20	0.337	0.100
Dibromochloromethane	TRG	Average RF	% RSD	4.4	20	0.4066	0.100
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	8.7	20	0.639	0.100
Dichloromethane	TRG	Average RF	% RSD	7.7	20	0.5208	0.100
Ethylbenzene	TRG	Average RF	% RSD	4.5	20	0.5733	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	5.0	20	1.837	0.100
Methyl Acetate	TRG	Average RF	% RSD	5.6	20	0.4312	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.1	20	1.613	0.100
Methylcyclohexane	TRG	Average RF	% RSD	8.1	20	0.4772	0.100
Styrene	TRG	Average RF	% RSD	2.8	20	1.228	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	9.9	20	0.3303	0.200
Toluene	TRG	Average RF	% RSD	3.8	20	1.433	0.400
Trichloroethene (TCE)	TRG	Average RF	% RSD	6.7	20	0.3644	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	6.6	20	0.6782	0.100
Vinyl Chloride	TRG	Average RF	% RSD	4.7	20	0.5925	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.9	20	0.5748	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	3.4	20	0.5861	0.200
m,p-Xylenes	TRG	Average RF	% RSD	4.8	20	0.718	0.100
n-Butylbenzene	TRG	Average RF	% RSD	7.3	20	2.888	
n-Propylbenzene	TRG	Average RF	% RSD	4.9	20	3.913	
o-Xylene	TRG	Average RF	% RSD	4.0	20	0.7107	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.0	20	3.671	
tert-Butylbenzene	TRG	Average RF	% RSD	4.7	20	2.502	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.4	20	0.5012	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	4.9	20	0.5416	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	7.1	20	0.4804	
Dibromofluoromethane	SURR	Average RF	% RSD	6.3	20	0.3114	
Toluene-d8	SURR	Average RF	% RSD	5.1	20	1.191	

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 12/29/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1800001-01	0.5ppb	I:\ACQUADATA\msvoa12\Data\122917\P15150.D	12/29/2017 17:22
02	RC1800001-02	1.0ppb	I:\ACQUADATA\msvoa12\Data\122917\P15151.D	12/29/2017 17:44
03	RC1800001-03	2.0ppb	I:\ACQUADATA\msvoa12\Data\122917\P15152.D	12/29/2017 18:06
04	RC1800001-04	5.0ppb	I:\ACQUADATA\msvoa12\Data\122917\P15153.D	12/29/2017 18:28
05	RC1800001-05	20ppb	I:\ACQUADATA\msvoa12\Data\122917\P15154.D	12/29/2017 18:49
06	RC1800001-06	50ppb	I:\ACQUADATA\msvoa12\Data\122917\P15155.D	12/29/2017 19:11
07	RC1800001-07	100ppb	I:\ACQUADATA\msvoa12\Data\122917\P15156.D	12/29/2017 19:32
08	RC1800001-08	150ppb	I:\ACQUADATA\msvoa12\Data\122917\P15157.D	12/29/2017 19:54
09	RC1800001-09	200ppb	I:\ACQUADATA\msvoa12\Data\122917\P15158.D	12/29/2017 20:16

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.008	02	1.000	0.8324	03	2.000	0.8305	04	5.000	0.8263
05	20.000	0.7547	06	50.000	0.7586	07	100.000	0.8393	08	150.000	0.7559
09	200.000	0.7763									

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.174	02	1.000	0.9923	03	2.000	0.9758	04	5.000	0.9754
05	20.000	0.9626	06	50.000	0.9528	07	100.000	0.9979	08	150.000	0.9568
09	200.000	0.9355									

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4078	02	1.000	0.3313	03	2.000	0.3409	04	5.000	0.3001
05	20.000	0.3023	06	50.000	0.2984	07	100.000	0.3213	08	150.000	0.2973
09	200.000	0.3011									

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5417	02	1.000	0.507	03	2.000	0.5052	04	5.000	0.4746
05	20.000	0.454	06	50.000	0.4676	07	100.000	0.5077	08	150.000	0.4468
09	200.000	0.4632									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.023	02	1.000	0.9379	03	2.000	0.9779	04	5.000	0.947
05	20.000	0.9354	06	50.000	0.9464	07	100.000	1.023	08	150.000	0.9294
09	200.000	0.9449									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6988	02	1.000	0.5509	03	2.000	0.4889	04	5.000	0.5238
05	20.000	0.4587	06	50.000	0.4697	07	100.000	0.5076	08	150.000	0.4531
09	200.000	0.4707									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 12/29/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.002	02	1.000	0.9216	03	2.000	1.146	04	5.000	1.016
05	20.000	1.037	06	50.000	1.133	07	100.000	1.211	08	150.000	1.128
09	200.000	1.106									

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.056	02	1.000	0.8897	03	2.000	1.111	04	5.000	1.127
05	20.000	1.063	06	50.000	1.167	07	100.000	1.236	08	150.000	1.174
09	200.000	1.163									

1,2,4-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.933	02	1.000	2.406	03	2.000	3.111	04	5.000	2.83
05	20.000	2.678	06	50.000	2.821	07	100.000	2.923	08	150.000	2.513
09	200.000	2.55									

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3075	03	2.000	0.2668	04	5.000	0.2471	05	20.000	0.236
06	50.000	0.2334	07	100.000	0.2617	08	150.000	0.2537	09	200.000	0.2467

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.351	02	1.000	0.3534	03	2.000	0.3576	04	5.000	0.3583
05	20.000	0.3652	06	50.000	0.3534	07	100.000	0.3695	08	150.000	0.3467
09	200.000	0.3508									

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.445	02	1.000	1.418	03	2.000	1.564	04	5.000	1.637
05	20.000	1.518	06	50.000	1.538	07	100.000	1.633	08	150.000	1.506
09	200.000	1.479									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5189	02	1.000	0.4538	03	2.000	0.4965	04	5.000	0.4925
05	20.000	0.4627	06	50.000	0.4712	07	100.000	0.4954	08	150.000	0.4641
09	200.000	0.4631									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3854	02	1.000	0.3429	03	2.000	0.3784	04	5.000	0.3342
05	20.000	0.3338	06	50.000	0.338	07	100.000	0.3592	08	150.000	0.3268
09	200.000	0.337									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 12/29/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

1,3,5-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.006	02	1.000	2.634	03	2.000	2.953	04	5.000	2.852
05	20.000	2.668	06	50.000	2.791	07	100.000	2.877	08	150.000	2.431
09	200.000	2.516									

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.677	02	1.000	1.429	03	2.000	1.562	04	5.000	1.59
05	20.000	1.472	06	50.000	1.544	07	100.000	1.606	08	150.000	1.437
09	200.000	1.447									

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.791	02	1.000	1.578	03	2.000	1.702	04	5.000	1.687
05	20.000	1.523	06	50.000	1.558	07	100.000	1.637	08	150.000	1.48
09	200.000	1.489									

1,4-Dioxane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.006219	04	100.000	0.007435	05	400.000	0.00659	06	1000.000	0.006423
07	2000.000	0.007289	08	3000.000	0.007211	09	4000.000	0.006975			

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.4207	05	20.000	0.3923	06	50.000	0.3734	07	100.000	0.3713
08	150.000	0.3649	09	200.000	0.3759						

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.3735	05	20.000	0.3675	06	50.000	0.3635	07	100.000	0.3634
08	150.000	0.3718	09	200.000	0.3691						

4-Isopropyltoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.185	02	1.000	2.582	03	2.000	3.235	04	5.000	3.058
05	20.000	2.757	06	50.000	2.999	07	100.000	3.151	08	150.000	2.694
09	200.000	2.773									

4-Methyl-2-pentanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.4473	04	5.000	0.4316	05	20.000	0.4288	06	50.000	0.4191
07	100.000	0.4199	08	150.000	0.4092	09	200.000	0.4197			

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.3196	05	20.000	0.3094	06	50.000	0.306	07	100.000	0.2984
08	150.000	0.294	09	200.000	0.3018						

ALS Group USA, Corp.  
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QA/QC Report

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Service Request: R1801334  
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Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.494	02	1.000	1.173	03	2.000	1.362	04	5.000	1.318
05	20.000	1.269	06	50.000	1.282	07	100.000	1.365	08	150.000	1.236
09	200.000	1.257									

Bromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3584	02	1.000	0.3559	03	2.000	0.3587	04	5.000	0.349
05	20.000	0.3362	06	50.000	0.3244	07	100.000	0.3565	08	150.000	0.329
09	200.000	0.342									

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5049	02	1.000	0.4624	03	2.000	0.4681	04	5.000	0.4328
05	20.000	0.4059	06	50.000	0.4099	07	100.000	0.4454	08	150.000	0.4044
09	200.000	0.4134									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.415	02	1.000	0.4245	03	2.000	0.4718	04	5.000	0.4159
05	20.000	0.4381	06	50.000	0.4323	07	100.000	0.4657	08	150.000	0.4273
09	200.000	0.4346									

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7318	02	1.000	0.7031	03	2.000	0.686	04	5.000	0.6842
05	20.000	0.5588	06	50.000	0.4663	07	100.000	0.4587	08	150.000	0.3608

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.679	02	1.000	1.339	03	2.000	1.479	04	5.000	1.503
05	20.000	1.544	06	50.000	1.515	07	100.000	1.491	08	150.000	1.445
09	200.000	1.486									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.371	02	1.000	0.3193	03	2.000	0.3858	04	5.000	0.3969
05	20.000	0.3668	06	50.000	0.3771	07	100.000	0.4136	08	150.000	0.3702
09	200.000	0.3773									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.967	02	1.000	0.8977	03	2.000	1.015	04	5.000	1.044
05	20.000	0.9667	06	50.000	0.9813	07	100.000	1.033	08	150.000	0.9512
09	200.000	0.9602									



ALS Group USA, Corp.  
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QA/QC Report

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**Service Request:** R1801334  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

**Analyte**

**Chloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5478	02	1.000	0.3259	03	2.000	0.5455	04	5.000	0.4631
05	20.000	0.4525	06	50.000	0.4631	07	100.000	0.4831	08	150.000	0.4266
09	200.000	0.4536									

**Chloroform**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.058	02	1.000	1.034	03	2.000	1.108	04	5.000	1.047
05	20.000	0.8838	06	50.000	0.8881	07	100.000	0.9486	08	150.000	0.8645
09	200.000	0.8901									

**Chloromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8715	02	1.000	0.8115	03	2.000	0.7951	04	5.000	0.6871
05	20.000	0.7249	06	50.000	0.7336	07	100.000	0.7845	08	150.000	0.7097
09	200.000	0.724									

**Cyclohexane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3967	03	2.000	0.3553	04	5.000	0.3116	05	20.000	0.3077
06	50.000	0.3118	07	100.000	0.3177	08	150.000	0.3026	09	200.000	0.3099

**Dibromochloromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3019	02	1.000	0.312	03	2.000	0.3334	04	5.000	0.3512
05	20.000	0.3269	06	50.000	0.3388	07	100.000	0.364	08	150.000	0.3421
09	200.000	0.3477									

**Dichlorodifluoromethane (CFC 12)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6417	02	1.000	0.5383	03	2.000	0.5297	04	5.000	0.5253
05	20.000	0.6313	06	50.000	0.6504	07	100.000	0.6971	08	150.000	0.6149
09	200.000	0.6456									

**Dichloromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.568	02	1.000	0.5432	03	2.000	0.5787	04	5.000	0.5455
05	20.000	0.5208	06	50.000	0.525	07	100.000	0.5616	08	150.000	0.5075
09	200.000	0.525									

**Ethylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5468	02	1.000	0.5206	03	2.000	0.5872	04	5.000	0.5614
05	20.000	0.5085	06	50.000	0.5317	07	100.000	0.5629	08	150.000	0.5171
09	200.000	0.5312									

ALS Group USA, Corp.  
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QA/QC Report

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Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.574	02	1.000	3.186	03	2.000	3.531	04	5.000	3.633
05	20.000	3.246	06	50.000	3.314	07	100.000	3.39	08	150.000	2.816
09	200.000	2.876									

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.5876	04	5.000	0.5336	05	20.000	0.5654	06	50.000	0.518
07	100.000	0.5394	08	150.000	0.5269	09	200.000	0.5402			

Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.832	02	1.000	1.791	03	2.000	1.974	04	5.000	1.87
05	20.000	1.838	06	50.000	1.795	07	100.000	1.898	08	150.000	1.774
09	200.000	1.798									

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3747	03	2.000	0.4746	04	5.000	0.4687	05	20.000	0.424
06	50.000	0.4449	07	100.000	0.4487	08	150.000	0.4179	09	200.000	0.4318

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.093	02	1.000	0.9589	03	2.000	1.091	04	5.000	1.123
05	20.000	1.086	06	50.000	1.134	07	100.000	1.202	08	150.000	1.115
09	200.000	1.126									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3073	02	1.000	0.2917	03	2.000	0.2929	04	5.000	0.2841
05	20.000	0.2475	06	50.000	0.2643	07	100.000	0.2816	08	150.000	0.2552
09	200.000	0.2587									

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.574	02	1.000	1.289	03	2.000	1.519	04	5.000	1.475
05	20.000	1.374	06	50.000	1.403	07	100.000	1.475	08	150.000	1.314
09	200.000	1.345									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3925	02	1.000	0.3488	03	2.000	0.309	04	5.000	0.3231
05	20.000	0.3163	06	50.000	0.3352	07	100.000	0.3524	08	150.000	0.3143
09	200.000	0.3228									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7403	02	1.000	0.6148	03	2.000	0.7681	04	5.000	0.7179

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

**Analyte**

**Trichlorofluoromethane (CFC 11)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	0.7052	06	50.000	0.7101	07	100.000	0.7736	08	150.000	0.6859
09	200.000	0.7063									

**Vinyl Chloride**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7871	02	1.000	0.616	03	2.000	0.7275	04	5.000	0.749
05	20.000	0.7515	06	50.000	0.7481	07	100.000	0.8085	08	150.000	0.7308
09	200.000	0.7463									

**cis-1,2-Dichloroethene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6166	02	1.000	0.5455	03	2.000	0.6365	04	5.000	0.638
05	20.000	0.5786	06	50.000	0.5775	07	100.000	0.6218	08	150.000	0.5765
09	200.000	0.584									

**cis-1,3-Dichloropropene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6006	02	1.000	0.4628	03	2.000	0.511	04	5.000	0.5676
05	20.000	0.5625	06	50.000	0.563	07	100.000	0.6012	08	150.000	0.5506
09	200.000	0.561									

**m,p-Xylenes**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.629	02	2.000	0.5812	03	4.000	0.7147	04	10.000	0.6994
05	40.000	0.6347	06	100.000	0.6525	07	200.000	0.7017	08	300.000	0.6313
09	400.000	0.6469									

**n-Butylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.909	02	1.000	2.459	03	2.000	2.786	04	5.000	2.726
05	20.000	2.563	06	50.000	2.858	07	100.000	3.044	08	150.000	2.634
09	200.000	2.678									

**n-Propylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.019	02	1.000	3.7	03	2.000	4.031	04	5.000	4.163
05	20.000	3.822	06	50.000	3.946	07	100.000	4.002	08	150.000	3.326
09	200.000	3.368									

**o-Xylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6801	02	1.000	0.6093	03	2.000	0.6863	04	5.000	0.6676
05	20.000	0.6267	06	50.000	0.656	07	100.000	0.6898	08	150.000	0.6336
09	200.000	0.6494									

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 12/29/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

sec-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.76	02	1.000	3.269	03	2.000	3.686	04	5.000	3.686
05	20.000	3.381	06	50.000	3.576	07	100.000	3.708	08	150.000	3.136
09	200.000	3.211									

tert-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.559	02	1.000	2.142	03	2.000	2.604	04	5.000	2.526
05	20.000	2.296	06	50.000	2.405	07	100.000	2.491	08	150.000	2.117
09	200.000	2.206									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5602	02	1.000	0.5063	03	2.000	0.5366	04	5.000	0.5328
05	20.000	0.5048	06	50.000	0.5129	07	100.000	0.551	08	150.000	0.5016
09	200.000	0.5153									

trans-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4838	02	1.000	0.4768	03	2.000	0.5216	04	5.000	0.5084
05	20.000	0.5164	06	50.000	0.5229	07	100.000	0.5615	08	150.000	0.5163
09	200.000	0.5318									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5995	05	20.000	0.4536	06	50.000	0.506	07	100.000	0.5177
08	200.000	0.4877									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3386	05	20.000	0.2707	06	50.000	0.2965	07	100.000	0.2994
08	200.000	0.2791									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.572	05	20.000	1.232	06	50.000	1.33	07	100.000	1.308
08	200.000	1.186									

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	9.7	20	0.8203	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	7.2	20	0.9914	0.300
1,1,2-Trichloroethane	TRG	Average RF	% RSD	11.1	20	0.3223	0.100
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	6.5	20	0.4853	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	3.8	20	0.9627	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	14.9	20	0.5136	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	8.3	20	1.078	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	9.0	20	1.109	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	8.4	20	2.752	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	9.2	20	0.2566	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	2.1	20	0.3562	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	5.0	20	1.526	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	4.5	20	0.4798	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	6.0	20	0.3484	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	7.2	20	2.748	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	5.7	20	1.529	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	6.6	20	1.605	0.500
1,4-Dioxane	TRG	Average RF	% RSD	6.8	20	0.006877	
2-Butanone (MEK)	TRG	Average RF	% RSD	5.4	20	0.3831	0.05
2-Hexanone	TRG	Average RF	% RSD	1.1	20	0.3681	0.05
4-Isopropyltoluene	TRG	Average RF	% RSD	8.2	20	2.937	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	2.9	20	0.4251	0.05
Acetone	TRG	Average RF	% RSD	3.0	20	0.3049	0.05
Benzene	TRG	Average RF	% RSD	7.1	20	1.306	0.500
Bromochloromethane	TRG	Average RF	% RSD	3.8	20	0.3456	
Bromodichloromethane	TRG	Average RF	% RSD	7.9	20	0.4386	0.200
Bromoform	TRG	Average RF	% RSD	4.6	20	0.4361	0.100
Bromomethane	TRG	Quadratic	COD	0.9924	0.99	0.5812	0.100
Carbon Disulfide	TRG	Average RF	% RSD	6.0	20	1.498	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	6.9	20	0.3753	0.05
Chlorobenzene	TRG	Average RF	% RSD	4.6	20	0.9796	0.500
Chloroethane	TRG	Average RF	% RSD	14.2	20	0.4623	0.100
Chloroform	TRG	Average RF	% RSD	9.6	20	0.9692	0.200
Chloromethane	TRG	Average RF	% RSD	7.8	20	0.7602	0.100

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Cyclohexane	TRG	Average RF	% RSD	10.0	20	0.3267	0.100
Dibromochloromethane	TRG	Average RF	% RSD	5.8	20	0.3353	0.100
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	10.2	20	0.6083	0.100
Dichloromethane	TRG	Average RF	% RSD	4.4	20	0.5417	0.100
Ethylbenzene	TRG	Average RF	% RSD	4.8	20	0.5408	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	8.8	20	3.285	0.100
Methyl Acetate	TRG	Average RF	% RSD	4.4	20	0.5445	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.5	20	1.841	0.100
Methylcyclohexane	TRG	Average RF	% RSD	7.3	20	0.4357	0.100
Styrene	TRG	Average RF	% RSD	5.8	20	1.103	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	7.3	20	0.2759	0.200
Toluene	TRG	Average RF	% RSD	6.9	20	1.419	0.400
Trichloroethene (TCE)	TRG	Average RF	% RSD	7.9	20	0.335	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	6.6	20	0.7136	0.100
Vinyl Chloride	TRG	Average RF	% RSD	7.2	20	0.7405	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.4	20	0.5972	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	7.8	20	0.5534	0.200
m,p-Xylenes	TRG	Average RF	% RSD	6.6	20	0.6546	0.100
n-Butylbenzene	TRG	Average RF	% RSD	6.6	20	2.74	
n-Propylbenzene	TRG	Average RF	% RSD	7.8	20	3.82	
o-Xylene	TRG	Average RF	% RSD	4.3	20	0.6554	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.9	20	3.49	
tert-Butylbenzene	TRG	Average RF	% RSD	7.9	20	2.372	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	4.1	20	0.5246	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	4.9	20	0.5155	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	10.6	20	0.5129	
Dibromofluoromethane	SURR	Average RF	% RSD	8.8	20	0.2969	
Toluene-d8	SURR	Average RF	% RSD	11.3	20	1.326	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/18/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1800013-09	50 PPB ICV	I:\ACQUADATA\MSVOA14\Data\011818\C4461.D	01/18/2018 17:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	51.0	7.752E-1	7.907E-1	1.99	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	49.0	9.537E-1	9.352E-1	-1.948	±30	Average RF
1,1,2-Trichloroethane	50.0	48.3	3.194E-1	3.084E-1	-3.460	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6	4.352E-1	4.757E-1	9.29	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	8.839E-1	8.676E-1	-1.844	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	49.7	4.395E-1	4.368E-1	-0.608	±30	Average RF
1,2,3-Trichlorobenzene	50.0	50.2	1.22E0	1.225E0	0.409	±30	Average RF
1,2,4-Trichlorobenzene	50.0	51.1	1.294E0	1.324E0	2.28	±30	Average RF
1,2,4-Trimethylbenzene	50.0	51.7	2.901E0	2.999E0	3.38	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	49.1	2.192E-1	2.152E-1	-1.840	±30	Average RF
1,2-Dibromoethane	50.0	48.3	3.649E-1	3.528E-1	-3.322	±30	Average RF
1,2-Dichlorobenzene	50.0	50.6	1.678E0	1.697E0	1.13	±30	Average RF
1,2-Dichloroethane	50.0	47.8	4.938E-1	4.722E-1	-4.365	±30	Average RF
1,2-Dichloropropane	50.0	48.1	3.588E-1	3.451E-1	-3.813	±30	Average RF
1,3,5-Trimethylbenzene	50.0	52.2	2.863E0	2.988E0	4.37	±30	Average RF
1,3-Dichlorobenzene	50.0	50.7	1.728E0	1.751E0	1.34	±30	Average RF
1,4-Dichlorobenzene	50.0	49.5	1.772E0	1.755E0	-0.934	±30	Average RF
1,4-Dioxane	1000	915	5.764E-3	5.276E-3	-8.472	±30	Average RF
2-Butanone (MEK)	50.0	48.6	3.065E-1	2.978E-1	-2.828	±30	Average RF
2-Hexanone	50.0	49.3	3.318E-1	3.27E-1	-1.459	±30	Average RF
4-Isopropyltoluene	50.0	53.0	3.156E0	3.344E0	5.94	±30	Average RF
4-Methyl-2-pentanone	50.0	46.5	4.084E-1	3.799E-1	-6.974	±30	Average RF
Acetone	50.0	53.7	2.266E-1	2.432E-1	7.36	±30	Average RF
Benzene	50.0	48.9	1.312E0	1.284E0	-2.164	±30	Average RF
Bromochloromethane	50.0	47.4	3.454E-1	3.274E-1	-5.212	±30	Average RF
Bromodichloromethane	50.0	49.2	4.633E-1	4.563E-1	-1.511	±30	Average RF
Bromoform	50.0	49.3	2.691E-1	2.653E-1	-1.413	±30	Average RF
Bromomethane	50.0	49.2	3.701E-1	3.612E-1	-1.687	±30	Quadratic
Carbon Disulfide	50.0	47.8	1.496E0	1.431E0	-4.346	±30	Average RF
Carbon Tetrachloride	50.0	50.7	1.411E-1	1.43E-1	1.34	±30	Average RF
Chlorobenzene	50.0	49.4	1.092E0	1.078E0	-1.295	±30	Average RF
Chloroethane	50.0	53.8	3.258E-1	3.503E-1	7.50	±30	Average RF
Chloroform	50.0	49.6	8.956E-1	8.881E-1	-0.836	±30	Average RF
Chloromethane	50.0	44.8	7.743E-1	6.938E-1	-10.389	±30	Average RF
Cyclohexane	50.0	49.7	3.37E-1	3.351E-1	-0.573	±30	Average RF



ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/18/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1800013-09	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\011818\C4461.D	01/18/2018 17:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Dibromochloromethane	50.0	49.1	4.066E-1	3.992E-1	-1.815	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	49.0	6.39E-1	6.26E-1	-2.043	±30	Average RF
Dichloromethane	50.0	46.5	5.208E-1	4.843E-1	-7.017	±30	Average RF
Ethylbenzene	50.0	49.8	5.733E-1	5.708E-1	-0.441	±30	Average RF
Isopropylbenzene (Cumene)	50.0	49.8	1.837E0	1.83E0	-0.387	±30	Average RF
Methyl Acetate	50.0	46.0	4.312E-1	3.967E-1	-8.016	±30	Average RF
Methyl tert-Butyl Ether	50.0	47.8	1.613E0	1.543E0	-4.390	±30	Average RF
Methylcyclohexane	50.0	50.0	4.772E-1	4.776E-1	0.084	±30	Average RF
Styrene	50.0	49.4	1.228E0	1.215E0	-1.106	±30	Average RF
Tetrachloroethene (PCE)	50.0	50.0	3.303E-1	3.304E-1	0.048	±30	Average RF
Toluene	50.0	49.7	1.433E0	1.424E0	-0.664	±30	Average RF
Trichloroethene (TCE)	50.0	49.3	3.644E-1	3.59E-1	-1.494	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	54.1	6.782E-1	7.333E-1	8.12	±30	Average RF
Vinyl Chloride	50.0	51.1	5.925E-1	6.053E-1	2.16	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.3	5.748E-1	5.557E-1	-3.313	±30	Average RF
cis-1,3-Dichloropropene	50.0	49.3	5.861E-1	5.782E-1	-1.348	±30	Average RF
m,p-Xylenes	100	98.9	7.18E-1	7.103E-1	-1.078	±30	Average RF
n-Butylbenzene	50.0	54.3	2.888E0	3.14E0	8.69	±30	Average RF
n-Propylbenzene	50.0	51.3	3.913E0	4.016E0	2.64	±30	Average RF
o-Xylene	50.0	48.7	7.107E-1	6.919E-1	-2.643	±30	Average RF
sec-Butylbenzene	50.0	51.5	3.671E0	3.785E0	3.10	±30	Average RF
tert-Butylbenzene	50.0	51.0	2.502E0	2.552E0	2.00	±30	Average RF
trans-1,2-Dichloroethene	50.0	49.0	5.012E-1	4.911E-1	-2.017	±30	Average RF
trans-1,3-Dichloropropene	50.0	49.0	5.416E-1	5.309E-1	-1.977	±30	Average RF
4-Bromofluorobenzene	50.0	50.5	4.804E-1	4.847E-1	0.912	±30	Average RF
Dibromofluoromethane	50.0	50.8	3.114E-1	3.162E-1	1.57	±30	Average RF
Toluene-d8	50.0	50.7	1.191E0	1.208E0	1.48	±30	Average RF

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 12/29/2017

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
11	RC1800001-11	ICV/LCS	I:\ACQUADATA\msvoa12\Data\010318\P15169.D	01/03/2018 11:34
10	RC1800001-10	ICV 50ppb	I:\ACQUADATA\msvoa12\Data\122917\P15162.D	12/29/2017 21:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.3	8.203E-1	7.924E-1	-3.403	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	47.8	9.914E-1	9.469E-1	-4.489	±30	Average RF
1,1,2-Trichloroethane	50.0	47.1	3.223E-1	3.034E-1	-5.859	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.6	4.853E-1	4.52E-1	-6.861	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.5	9.627E-1	9.532E-1	-0.989	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.0	5.136E-1	4.624E-1	-9.964	±30	Average RF
1,2,3-Trichlorobenzene	50.0	54.1	1.078E0	1.166E0	8.17	±30	Average RF
1,2,4-Trichlorobenzene	50.0	52.6	1.109E0	1.168E0	5.24	±30	Average RF
1,2,4-Trimethylbenzene	50.0	52.1	2.752E0	2.866E0	4.14	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	47.4	2.566E-1	2.433E-1	-5.197	±30	Average RF
1,2-Dibromoethane	50.0	48.6	3.562E-1	3.462E-1	-2.816	±30	Average RF
1,2-Dichlorobenzene	50.0	50.9	1.526E0	1.553E0	1.72	±30	Average RF
1,2-Dichloroethane	50.0	48.1	4.798E-1	4.614E-1	-3.838	±30	Average RF
1,2-Dichloropropane	50.0	48.5	3.484E-1	3.378E-1	-3.065	±30	Average RF
1,3,5-Trimethylbenzene	50.0	51.3	2.748E0	2.82E0	2.64	±30	Average RF
1,3-Dichlorobenzene	50.0	50.3	1.529E0	1.539E0	0.649	±30	Average RF
1,4-Dichlorobenzene	50.0	49.3	1.605E0	1.583E0	-1.385	±30	Average RF
1,4-Dioxane	1000	977	6.877E-3	6.718E-3	-2.312	±30	Average RF
2-Butanone (MEK)	50.0	47.0	3.831E-1	3.597E-1	-6.090	±30	Average RF
2-Hexanone	50.0	46.8	3.681E-1	3.445E-1	-6.417	±30	Average RF
4-Isopropyltoluene	50.0	51.7	2.937E0	3.037E0	3.41	±30	Average RF
4-Methyl-2-pentanone	50.0	46.2	4.251E-1	3.927E-1	-7.620	±30	Average RF
Acetone	50.0	48.5	3.049E-1	2.956E-1	-3.039	±30	Average RF
Benzene	50.0	49.5	1.306E0	1.293E0	-1.016	±30	Average RF
Bromochloromethane	50.0	48.9	3.456E-1	3.377E-1	-2.290	±30	Average RF
Bromodichloromethane	50.0	48.1	4.386E-1	4.22E-1	-3.787	±30	Average RF
Bromoform	50.0	49.9	4.361E-1	4.351E-1	-0.243	±30	Average RF
Bromomethane	50.0	45.4	5.812E-1	4.956E-1	-9.228	±30	Quadratic
Carbon Disulfide	50.0	46.0	1.498E0	1.378E0	-8.000	±30	Average RF
Carbon Tetrachloride	50.0	51.0	3.753E-1	3.825E-1	1.92	±30	Average RF
Chlorobenzene	50.0	51.3	9.796E-1	1.006E0	2.65	±30	Average RF
Chloroethane	50.0	46.6	4.623E-1	4.313E-1	-6.706	±30	Average RF
Chloroform	50.0	47.2	9.692E-1	9.148E-1	-5.607	±30	Average RF
Chloromethane	50.0	43.5	7.602E-1	6.614E-1	-12.995	±30	Average RF

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 12/29/2017

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
11	RC1800001-11	ICV/LCS	I:\ACQUADATA\msvoa12\Data\010318\P15169.D	01/03/2018 11:34
10	RC1800001-10	ICV 50ppb	I:\ACQUADATA\msvoa12\Data\122917\P15162.D	12/29/2017 21:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Cyclohexane	50.0	46.1	3.267E-1	3.015E-1	-7.700	±30	Average RF
Dibromochloromethane	50.0	50.4	3.353E-1	3.378E-1	0.735	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	52.9	6.083E-1	6.433E-1	5.75	±30	Average RF
Dichloromethane	50.0	48.2	5.417E-1	5.226E-1	-3.523	±30	Average RF
Ethylbenzene	50.0	49.8	5.408E-1	5.39E-1	-0.341	±30	Average RF
Isopropylbenzene (Cumene)	50.0	49.5	3.285E0	3.252E0	-1.005	±30	Average RF
Methyl Acetate	50.0	50.2	5.445E-1	5.469E-1	0.456	±30	Average RF
Methyl tert-Butyl Ether	50.0	47.9	1.841E0	1.764E0	-4.207	±30	Average RF
Methylcyclohexane	50.0	49.1	4.357E-1	4.274E-1	-1.890	±30	Average RF
Styrene	50.0	51.1	1.103E0	1.128E0	2.25	±30	Average RF
Tetrachloroethene (PCE)	50.0	47.6	2.759E-1	2.628E-1	-4.770	±30	Average RF
Toluene	50.0	49.7	1.419E0	1.411E0	-0.568	±30	Average RF
Trichloroethene (TCE)	50.0	50.5	3.35E-1	3.381E-1	0.937	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	51.8	7.136E-1	7.399E-1	3.69	±30	Average RF
Vinyl Chloride	50.0	46.8	7.405E-1	6.925E-1	-6.488	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.0	5.972E-1	5.73E-1	-4.053	±30	Average RF
cis-1,3-Dichloropropene	50.0	49.6	5.534E-1	5.491E-1	-0.779	±30	Average RF
m,p-Xylenes	100	101	6.546E-1	6.586E-1	0.618	±30	Average RF
n-Butylbenzene	50.0	52.9	2.74E0	2.897E0	5.76	±30	Average RF
n-Propylbenzene	50.0	50.5	3.82E0	3.86E0	1.04	±30	Average RF
o-Xylene	50.0	49.7	6.554E-1	6.519E-1	-0.543	±30	Average RF
sec-Butylbenzene	50.0	50.8	3.49E0	3.549E0	1.70	±30	Average RF
tert-Butylbenzene	50.0	50.1	2.372E0	2.379E0	0.289	±30	Average RF
trans-1,2-Dichloroethene	50.0	47.9	5.246E-1	5.03E-1	-4.128	±30	Average RF
trans-1,3-Dichloropropene	50.0	50.2	5.155E-1	5.181E-1	0.496	±30	Average RF
4-Bromofluorobenzene	50.0	48.2	5.129E-1	4.943E-1	-3.624	±30	Average RF
Dibromofluoromethane	50.0	49.6	2.969E-1	2.947E-1	-0.725	±30	Average RF
Toluene-d8	50.0	49.1	1.326E0	1.302E0	-1.787	±30	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801334  
Date Analyzed: 02/16/18 10:58

Continuing Calibration Verification (CCV) Summary  
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C  
File ID: I:\ACQUADATA\MSVOA14\Data\021618\C4989.D\

Calibration Date: 1/18/2018  
Calibration ID: RC1800013  
Analysis Lot: 580628  
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	50.4	0.7752	0.7819	0.9	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	44.5	0.9537	0.849	-11.0	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	46.8	0.3194	0.2987	-6.5	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.6	0.4352	0.4929	13.2	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.2	0.8839	0.9236	4.5	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.6	0.4395	0.4535	3.2	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	37.3	1.2198	0.9093	-25.5*	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	43.3	1.2942	1.1209	-13.4	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	51.6	2.901	2.9945	3.2	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	38.7	0.2192	0.1698	-22.6*	NA	±20	Average RF
1,2-Dibromoethane	50.0	47.2	0.3649	0.3444	-5.6	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	49.0	1.6777	1.644	-2.0	NA	±20	Average RF
1,2-Dichloroethane	50.0	49.7	0.4938	0.4904	-0.7	NA	±20	Average RF
1,2-Dichloropropane	50.0	49.9	0.3588	0.3581	-0.2	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	51.8	2.863	2.9663	3.6	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	50.5	1.7276	1.7436	0.9	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	48.9	1.7718	1.7342	-2.1	NA	±20	Average RF
1,4-Dioxane	1000	903	0.0058	0.0052	-9.7	NA	±20	Average RF
2-Butanone (MEK)	50.0	51.7	0.3065	0.317	3.5	NA	±20	Average RF
2-Hexanone	50.0	51.4	0.3318	0.3408	2.7	NA	±20	Average RF
4-Isopropyltoluene	50.0	52.1	3.1564	3.2867	4.1	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	50.1	0.4084	0.4095	0.3	NA	±20	Average RF
Acetone	50.0	51.1	0.2266	0.2315	2.2	NA	±20	Average RF
Benzene	50.0	50.1	1.3119	1.3137	0.1	NA	±20	Average RF
Bromochloromethane	50.0	50.2	0.3454	0.3471	0.5	NA	±20	Average RF
Bromodichloromethane	50.0	47.9	0.4633	0.4437	-4.2	NA	±20	Average RF
Bromoform	50.0	42.3	0.2691	0.2276	-15.4	NA	±20	Average RF
Bromomethane	50.0	43.5	0.3701	0.3226	NA	-13.1	±20	Quadratic
Carbon Disulfide	50.0	51.9	1.4962	1.5526	3.8	NA	±20	Average RF
Carbon Tetrachloride	50.0	47.8	0.1411	0.1348	-4.4	NA	±20	Average RF
Chlorobenzene	50.0	49.7	1.092	1.0851	-0.6	NA	±20	Average RF
Chloroethane	50.0	54.8	0.3258	0.357	9.6	NA	±20	Average RF
Chloroform	50.0	51.1	0.8956	0.9153	2.2	NA	±20	Average RF
Chloromethane	50.0	44.8	0.7743	0.6934	-10.4	NA	±20	Average RF
Cyclohexane	50.0	55.7	0.337	0.3756	11.4	NA	±20	Average RF
Dibromochloromethane	50.0	45.9	0.4066	0.3736	-8.1	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	56.8	0.639	0.7253	13.5	NA	±20	Average RF
Dichloromethane	50.0	48.9	0.5208	0.5095	-2.2	NA	±20	Average RF
Ethylbenzene	50.0	49.7	0.5733	0.5703	-0.5	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	50.0	1.8371	1.8363	0.0	NA	±20	Average RF
Methyl Acetate	50.0	52.6	0.4312	0.4537	5.2	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	49.0	1.6133	1.5796	-2.1	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/16/18 10:58

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUDATA\MSVOA14\Data\021618\C4989.D\

**Calibration Date:** 1/18/2018  
**Calibration ID:** RC1800013  
**Analysis Lot:** 580628  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	52.8	0.4772	0.5043	5.7	NA	±20	Average RF
Styrene	50.0	49.1	1.2281	1.2071	-1.7	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	49.4	0.3303	0.326	-1.3	NA	±20	Average RF
Toluene	50.0	50.1	1.4332	1.436	0.2	NA	±20	Average RF
Trichloroethene (TCE)	50.0	50.0	0.3644	0.3642	-0.1	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	54.4	0.6782	0.7376	8.8	NA	±20	Average RF
Vinyl Chloride	50.0	55.8	0.5925	0.6616	11.7	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	50.7	0.5748	0.5823	1.3	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	47.5	0.5861	0.5572	-4.9	NA	±20	Average RF
m,p-Xylenes	100	100	0.718	0.7187	0.1	NA	±20	Average RF
n-Butylbenzene	50.0	54.8	2.8884	3.1632	9.5	NA	±20	Average RF
n-Propylbenzene	50.0	53.4	3.9126	4.177	6.8	NA	±20	Average RF
o-Xylene	50.0	49.2	0.7107	0.6995	-1.6	NA	±20	Average RF
sec-Butylbenzene	50.0	52.4	3.6712	3.8471	4.8	NA	±20	Average RF
tert-Butylbenzene	50.0	51.0	2.502	2.5498	1.9	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	50.8	0.5012	0.5095	1.7	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	45.4	0.5416	0.4914	-9.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	48.4	0.4804	0.4654	-3.1	NA	±20	Average RF
Dibromofluoromethane	50.0	49.6	0.3114	0.309	-0.8	NA	±20	Average RF
Toluene-d8	50.0	50.0	1.1907	1.1918	0.1	NA	±20	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801334  
Date Analyzed: 02/20/18 10:53

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C  
File ID: I:\ACQUADATA\msvoa12\Data\022018\P15884.D\

Calibration Date: 12/29/2017  
Calibration ID: RC1800001  
Analysis Lot: 580966  
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.6	0.8203	0.8143	-0.7	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	52.0	0.9914	1.0302	3.9	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	52.0	0.3223	0.3349	3.9	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6	0.4853	0.5302	9.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	55.2	0.9627	1.0634	10.5	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	49.5	0.5136	0.5081	-1.1	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	57.2	1.0777	1.2324	14.3	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	57.2	1.1095	1.2684	14.3	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	54.1	2.7517	2.9751	8.1	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	46.2	0.2566	0.237	-7.6	NA	±20	Average RF
1,2-Dibromoethane	50.0	53.6	0.3562	0.3819	7.2	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	54.5	1.5264	1.6628	8.9	NA	±20	Average RF
1,2-Dichloroethane	50.0	52.3	0.4798	0.502	4.6	NA	±20	Average RF
1,2-Dichloropropane	50.0	55.4	0.3484	0.3864	10.9	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	53.7	2.7476	2.9482	7.3	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	55.1	1.5293	1.6865	10.3	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	52.0	1.605	1.6702	4.1	NA	±20	Average RF
1,4-Dioxane	1000	1100	0.0069	0.0076	10.5	NA	±20	Average RF
2-Butanone (MEK)	50.0	56.5	0.3831	0.4329	13.0	NA	±20	Average RF
2-Hexanone	50.0	53.4	0.3681	0.3928	6.7	NA	±20	Average RF
4-Isopropyltoluene	50.0	54.1	2.9371	3.1776	8.2	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	56.4	0.4251	0.4792	12.7	NA	±20	Average RF
Acetone	50.0	51.1	0.3049	0.3116	2.2	NA	±20	Average RF
Benzene	50.0	54.8	1.3061	1.4309	9.6	NA	±20	Average RF
Bromochloromethane	50.0	53.5	0.3456	0.3699	7.0	NA	±20	Average RF
Bromodichloromethane	50.0	49.6	0.4386	0.4347	-0.9	NA	±20	Average RF
Bromoform	50.0	49.3	0.4361	0.4302	-1.4	NA	±20	Average RF
Bromomethane	50.0	49.6	0.5812	0.5335	NA	-0.8	±20	Quadratic
Carbon Disulfide	50.0	50.6	1.4979	1.5158	1.2	NA	±20	Average RF
Carbon Tetrachloride	50.0	52.1	0.3753	0.3911	4.2	NA	±20	Average RF
Chlorobenzene	50.0	53.8	0.9796	1.0534	7.5	NA	±20	Average RF
Chloroethane	50.0	51.2	0.4623	0.4733	2.4	NA	±20	Average RF
Chloroform	50.0	50.2	0.9692	0.9733	0.4	NA	±20	Average RF
Chloromethane	50.0	58.4	0.7602	0.8882	16.8	NA	±20	Average RF
Cyclohexane	50.0	55.0	0.3267	0.3592	10.0	NA	±20	Average RF
Dibromochloromethane	50.0	51.0	0.3353	0.3421	2.0	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	59.7	0.6083	0.7264	19.4	NA	±20	Average RF
Dichloromethane	50.0	54.3	0.5417	0.5878	8.5	NA	±20	Average RF
Ethylbenzene	50.0	52.2	0.5408	0.5643	4.3	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	53.9	3.2851	3.5399	7.8	NA	±20	Average RF
Methyl Acetate	50.0	61.9	0.5445	0.6742	23.8*	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	53.3	1.8411	1.9622	6.6	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/20/18 10:53

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUDATA\msvoa12\Data\022018\P15884.D\

**Calibration Date:** 12/29/2017  
**Calibration ID:** RC1800001  
**Analysis Lot:** 580966  
**Units:** ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	59.9	0.4357	0.5217	19.7	NA	±20	Average RF
Styrene	50.0	54.7	1.1033	1.2061	9.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	52.9	0.2759	0.2921	5.8	NA	±20	Average RF
Toluene	50.0	54.1	1.4187	1.5353	8.2	NA	±20	Average RF
Trichloroethene (TCE)	50.0	52.6	0.335	0.3526	5.3	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	54.9	0.7136	0.7835	9.8	NA	±20	Average RF
Vinyl Chloride	50.0	57.1	0.7405	0.8451	14.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	52.7	0.5972	0.6291	5.3	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	54.2	0.5534	0.5995	8.3	NA	±20	Average RF
m,p-Xylenes	100	109	0.6546	0.711	8.6	NA	±20	Average RF
n-Butylbenzene	50.0	55.7	2.7396	3.0524	11.4	NA	±20	Average RF
n-Propylbenzene	50.0	55.7	3.8197	4.253	11.3	NA	±20	Average RF
o-Xylene	50.0	53.8	0.6554	0.7057	7.7	NA	±20	Average RF
sec-Butylbenzene	50.0	55.4	3.4901	3.8673	10.8	NA	±20	Average RF
tert-Butylbenzene	50.0	53.7	2.3716	2.5481	7.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	53.3	0.5246	0.5587	6.5	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	53.6	0.5155	0.5531	7.3	NA	±20	Average RF
4-Bromofluorobenzene	50.0	49.5	0.5129	0.5082	-0.9	NA	±20	Average RF
Dibromofluoromethane	50.0	50.3	0.2969	0.2988	0.6	NA	±20	Average RF
Toluene-d8	50.0	51.0	1.3256	1.3531	2.1	NA	±20	Average RF



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/17/18 14:35

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\MSVOA14\Data\021718\C5025.D\

**Calibration Date:** 1/18/2018  
**Calibration ID:** RC1800013  
**Analysis Lot:** 580738  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.8	0.7752	0.7412	-4.4	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	41.7	0.9537	0.7945	-16.7	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	45.5	0.3194	0.2908	-9.0	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.9	0.4352	0.4427	1.7	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.9	0.8839	0.8993	1.7	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.8	0.4395	0.4287	-2.5	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	32.9	1.2198	0.8014	-34.3*	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	38.5	1.2942	0.9968	-23.0*	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	47.9	2.901	2.7765	-4.3	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	35.0	0.2192	0.1535	-30.0*	NA	±20	Average RF
1,2-Dibromoethane	50.0	46.3	0.3649	0.3378	-7.4	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	47.3	1.6777	1.586	-5.5	NA	±20	Average RF
1,2-Dichloroethane	50.0	48.0	0.4938	0.4743	-3.9	NA	±20	Average RF
1,2-Dichloropropane	50.0	49.1	0.3588	0.352	-1.9	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	47.5	2.863	2.721	-5.0	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	47.8	1.7276	1.6502	-4.5	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	46.5	1.7718	1.6473	-7.0	NA	±20	Average RF
1,4-Dioxane	1000	958	0.0058	0.0055	-4.2	NA	±20	Average RF
2-Butanone (MEK)	50.0	44.4	0.3065	0.2722	-11.2	NA	±20	Average RF
2-Hexanone	50.0	43.9	0.3318	0.291	-12.3	NA	±20	Average RF
4-Isopropyltoluene	50.0	46.0	3.1564	2.9058	-7.9	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	43.0	0.4084	0.351	-14.1	NA	±20	Average RF
Acetone	50.0	44.1	0.2266	0.1997	-11.9	NA	±20	Average RF
Benzene	50.0	48.8	1.3119	1.2814	-2.3	NA	±20	Average RF
Bromochloromethane	50.0	48.8	0.3454	0.3372	-2.4	NA	±20	Average RF
Bromodichloromethane	50.0	46.9	0.4633	0.4342	-6.3	NA	±20	Average RF
Bromoform	50.0	41.2	0.2691	0.2219	-17.6	NA	±20	Average RF
Bromomethane	50.0	40.7	0.3701	0.3034	NA	-18.7	±20	Quadratic
Carbon Disulfide	50.0	45.7	1.4962	1.3682	-8.6	NA	±20	Average RF
Carbon Tetrachloride	50.0	43.9	0.1411	0.1238	-12.3	NA	±20	Average RF
Chlorobenzene	50.0	48.1	1.092	1.0508	-3.8	NA	±20	Average RF
Chloroethane	50.0	55.7	0.3258	0.363	11.4	NA	±20	Average RF
Chloroform	50.0	50.1	0.8956	0.8967	0.1	NA	±20	Average RF
Chloromethane	50.0	43.7	0.7743	0.6772	-12.5	NA	±20	Average RF
Cyclohexane	50.0	56.2	0.337	0.3787	12.4	NA	±20	Average RF
Dibromochloromethane	50.0	44.1	0.4066	0.3588	-11.8	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	52.9	0.639	0.6759	5.8	NA	±20	Average RF
Dichloromethane	50.0	48.4	0.5208	0.5037	-3.3	NA	±20	Average RF
Ethylbenzene	50.0	47.1	0.5733	0.54	-5.8	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	46.5	1.8371	1.7102	-6.9	NA	±20	Average RF
Methyl Acetate	50.0	48.3	0.4312	0.4165	-3.4	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	48.1	1.6133	1.5517	-3.8	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/17/18 14:35

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\MSVOA14\Data\021718\C5025.D\

**Calibration Date:** 1/18/2018  
**Calibration ID:** RC1800013  
**Analysis Lot:** 580738  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	53.8	0.4772	0.514	7.7	NA	±20	Average RF
Styrene	50.0	47.9	1.2281	1.1773	-4.1	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	44.6	0.3303	0.2947	-10.8	NA	±20	Average RF
Toluene	50.0	48.3	1.4332	1.3844	-3.4	NA	±20	Average RF
Trichloroethene (TCE)	50.0	48.5	0.3644	0.3535	-3.0	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	49.8	0.6782	0.6754	-0.4	NA	±20	Average RF
Vinyl Chloride	50.0	52.1	0.5925	0.6169	4.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	49.0	0.5748	0.5634	-2.0	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	46.9	0.5861	0.5497	-6.2	NA	±20	Average RF
m,p-Xylenes	100	94.8	0.718	0.6808	-5.2	NA	±20	Average RF
n-Butylbenzene	50.0	46.8	2.8884	2.7057	-6.3	NA	±20	Average RF
n-Propylbenzene	50.0	47.8	3.9126	3.7375	-4.5	NA	±20	Average RF
o-Xylene	50.0	47.2	0.7107	0.6703	-5.7	NA	±20	Average RF
sec-Butylbenzene	50.0	46.0	3.6712	3.3752	-8.1	NA	±20	Average RF
tert-Butylbenzene	50.0	45.5	2.502	2.2757	-9.0	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.2	0.5012	0.493	-1.6	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	44.6	0.5416	0.4826	-10.9	NA	±20	Average RF
4-Bromofluorobenzene	50.0	48.4	0.4804	0.4648	-3.2	NA	±20	Average RF
Dibromofluoromethane	50.0	48.7	0.3114	0.3034	-2.6	NA	±20	Average RF
Toluene-d8	50.0	50.5	1.1907	1.2033	1.1	NA	±20	Average RF

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dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**580628  
**Instrument ID:**R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\MSVOA14\Data\021618\C4988.D	ZZZZZZZ	ZZZZZZZ	2/16/2018	10:24:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4989.D	Continuing Calibration Verification	RQ1801464-02	2/16/2018	10:58:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4990.D	Lab Control Sample	RQ1801464-03	2/16/2018	11:29:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4992.D	Method Blank	RQ1801464-04	2/16/2018	12:15:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4993.D	TB-04 (2.5)	R1801334-003	2/16/2018	12:38:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4994.D	TB-07 (5.5)	R1801334-004	2/16/2018	13:01:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4995.D	TB-10 (15.0)	R1801334-005	2/16/2018	13:24:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4996.D	TB-13 (8.0)	R1801334-006	2/16/2018	13:47:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4997.D	TB-15 (7.0-7.5)	R1801334-008	2/16/2018	14:10:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4998.D	TB-19 (10.0)	R1801334-010	2/16/2018	14:34:00	
I:\ACQUADATA\MSVOA14\Data\021618\C4999.D	TB-20 (3.0)	R1801334-011	2/16/2018	14:57:00	
I:\ACQUADATA\MSVOA14\Data\021618\C5000.D	TB-21 (5.0)	R1801334-012	2/16/2018	15:20:00	
I:\ACQUADATA\MSVOA14\Data\021618\C5001.D	TB-22 (12.0)	R1801334-013	2/16/2018	15:43:00	
I:\ACQUADATA\MSVOA14\Data\021618\C5004.D	TB-07 (5.5)	R1801334-004	2/16/2018	16:52:00	
I:\ACQUADATA\MSVOA14\Data\021718\C5024.D	ZZZZZZZ	ZZZZZZZ	2/17/2018	14:03:00	
I:\ACQUADATA\MSVOA14\Data\021718\C5029.D	ZZZZZZZ	ZZZZZZZ	2/17/2018	16:17:00	
I:\ACQUADATA\MSVOA14\Data\021718\C5030.D	ZZZZZZZ	ZZZZZZZ	2/17/2018	16:40:00	
I:\ACQUADATA\msvoa12\Data\022018\P15883.D	ZZZZZZZ	ZZZZZZZ	2/20/2018	10:24:00	
I:\ACQUADATA\msvoa12\Data\022018\P15895.D	ZZZZZZZ	ZZZZZZZ	2/20/2018	15:12:00	
I:\ACQUADATA\msvoa12\Data\022018\P15898.D	ZZZZZZZ	ZZZZZZZ	2/20/2018	16:17:00	
I:\ACQUADATA\msvoa12\Data\022018\P15901.D	ZZZZZZZ	ZZZZZZZ	2/20/2018	17:23:00	
I:\ACQUADATA\msvoa12\Data\022018\P15902.D	ZZZZZZZ	ZZZZZZZ	2/20/2018	17:45:00	
I:\ACQUADATA\msvoa12\Data\022018\P15903.D	ZZZZZZZ	ZZZZZZZ	2/20/2018	18:07:00	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**580628  
**Instrument ID:**R-MS-14

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\msvoa12\Data\022018 \P15905.D\	ZZZZZZZ	ZZZZZZZ	2/20/2018	18:51:00	
I:\ACQUDATA\msvoa12\Data\022018 \P15908.D\	ZZZZZZZ	ZZZZZZZ	2/20/2018	19:56:00	
I:\ACQUDATA\msvoa12\Data\022018 \P15909.D\	ZZZZZZZ	ZZZZZZZ	2/20/2018	20:18:00	

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**580738  
**Instrument ID:**R-MS-14

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\MSVOA14\Data\021718\C5025.D\	Continuing Calibration Verification	RQ1801721-02	2/17/2018	14:35:00	
I:\ACQUDATA\MSVOA14\Data\021718\C5026.D\	Lab Control Sample	RQ1801721-03	2/17/2018	15:06:00	
I:\ACQUDATA\MSVOA14\Data\021718\C5028.D\	Method Blank	RQ1801721-04	2/17/2018	15:54:00	
I:\ACQUDATA\MSVOA14\Data\021718\C5031.D\	TB-21 (5.0) MS	RQ1801721-05	2/17/2018	17:03:00	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

**Analysis Lot:**580966  
**Instrument ID:**R-MS-12

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\msvoa12\Data\022018\P15884.D\	Continuing Calibration Verification	RQ1801521-02	2/20/2018	10:53:00	
I:\ACQUDATA\msvoa12\Data\022018\P15885.D\	Lab Control Sample	RQ1801521-03	2/20/2018	11:22:00	
I:\ACQUDATA\msvoa12\Data\022018\P15889.D\	Method Blank	RQ1801521-04	2/20/2018	13:00:00	
I:\ACQUDATA\msvoa12\Data\022018\P15907.D\	TB-14 (7.0)	R1801334-007	2/20/2018	19:34:00	

Analysis: 8260-Soil Analyst: F. Neuber pH strips: — Tune Method: 501818.M  
 Date: 2/16/18 Balance ID: 07 ResCl strips: — Run Method: ↓  
 Instr: ms 14 50 mL Class A used for dilution FV Syringes: 181116 | 77958 LIMS Run#: 580628

Pos.	Sample	Diln.	Diln. Prep/	RL	Tier	Val	pH	File#	OK?	Comments
1	Blk							C4986	Y	
2	Blk							87	Y	
3	TUNE							88	Y	
1	CCV							89	Y	
2	LS							90	Y	
3	MBL							91	(N)	
4	MBL							92	Y	
5	R1801334-003	0.91	2376	12666	4	1		93	Y	
6	R1801334-004	0.91	2165		1	1		94	(Y)	surely, Rpt to confirm
7	R1801334-005	0.73	2349		1	1		95	Y	
8	R1801334-006	0.66	2189		1	1		96	Y	
9	R1801334-008	0.82	0137		1	1		97	Y	
10	R1801334-010	0.67	2250		1	1		98	Y	
11	R1801334-011	0.72	2418		1	1		99	Y	
12	R1801334-012	0.76	2208		1	1		C5000	Y	
13	R1801334-013	0.70	2377		1	1		01	Y	
14	R1801334-007	1.19	2210		1	1		02	(N)	ISL, surely, Rpt MED (1150)
15	Blk							03	Y	
16	R1801334-004	0.73	2871	12666	4	2		04	Y	
17	R1801334-001	0.74	1787	12666	4	1		05	(N)	10 - use for confirm only!
18	R1801334-003	1.27	0612		1	1		06	(N)	Rpt MED (1150)
19	R1801334-010	0.96	1758		1	1		07	(N)	ISL Rpt VI
20	R1801334-011	0.72	0614		1	1		08	(N)	ISL Rpt MED (1150)
21	R1801334-012	1.16	0608		1	1		09	(N)	ISL Rpt MED (1150)
22	R1801334-008	0.71	1743		1	1		10	(N)	Rpt MED (1100)
23	R1801334-015	0.77	1786		1	1		11	(N)	Rpt MED (1100)
24	R1801334-006	0.71	0546		1	1		12	(N)	Rpt MED (1100)
25	R1801334-002	0.65	1729		1	1		13	(N)	Rpt MED (1100)
26	R1801334-012MS	0.71	2232	12666	4	2		14	(N)	Rpt MED (1100)
27	R1801334-012MS	0.71	2232		1	1		15	(N)	Rpt MED (1100)
28	Blk							16	Y	
29	Blk							17	Y	

All samples = 5 mL + 5 mL combined IS/Sur.

5 mL combined IS/Sur. 10 mL purged

Combined IS/Sur. Surrogate 50: 187505 Internal Std 50: 187504

T16 Primary 500: 187973  
 HSL Primary: 187975  
 Fr Primary: 188036  
 OCC Primary: 186749

Fr Secondary 200: 187935  
 HSL Secondary 500: 187713  
 OCC Secondary: 186658

Reagents: 1.0 mL = 2.0 mL  
 Runlog: MSVQA4 1/17/17

Analysis: 500 mL water + Analyst: R. West pH strips: 206717 Tune Method: L01220918  
 Date: 2/20/18 med Balance ID: A.R.07 ResCl strips: N/A Run Method: ↓  
 Instr: 12 50 mL Class A used for dilution FV Syringes: 177416, 150354, 77955 LIMS Run#: 580942 + 580946  
 Data Path: jaquodatalmsvoa(instid)(Date) Lab 5 (med 500)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BUL							P15880		
2	↓							P15881		
3	NVE							P15882		(auto) 9:51
1	CCV NVE		P01501530.01 + Q1521.01					P15883		(auto) (10:24)
1	CCV							P15884		
1	LCS							P15885		
1	BUL							P15886		
2	MEN BUL	SD	1ml MEOH / 50mls DI					P15887		Ice have bit - npt
3	BUL							P15888		
4	PHO1225	LD	MEN BUL SD					P15889		
5	008	5.0	10/50mls					P15890		
6	↓	5.0	↓ 10/50mls					P15891		
7	↓	5.0	↓ 10/50mls					P15892		
8	PHO1334.007	1110	100ul MEOH / 50mls DI					P15893		
9	BUL							P15894		
10	PHO1334.011	79.5	1.0ml MEOH / 50mls DI					P15895		
11		008	50ul MEOH					P15896		
12		013	149					P15897		
13		006	157					P15898		
14		002	1650					P15899		
15		001	620					P15900		
16		012	120					P15901		
17		008	76.5					P15902		
18		013	74.5					P15903		
19		001	420					P15904		
20	↓	002	8740					P15905		
21	BUL							P15906		
22	PHO1334.007	222	50ul MEOH / 50mls DI					P15907		
23	PHO1334.002	8740	3.5ul MEOH					P15908		
24	↓	002	8740					P15909		
25	BUL							P15910		

All samples = 5 mL + 5 mL combined IS/Surr. 5 mL purged

500 Primary CC1: 180749 200 Secondary CC1: 187905 - 5ul  
 Primary FT: 180936 5ul → 50mls  
 Primary TG: 180973 = CCV  
 Primary HSL: 180975  
 Primary: \_\_\_\_\_  
 Secondary: \_\_\_\_\_  
 Secondary CC1: 180658 5mls  
 Secondary TG: 180713 = LCS  
 Secondary HSL: 180747 = ms/d  
 Secondary: \_\_\_\_\_  
 Runlog-MSVOA4 11/717



# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Low

Folder #: R1801334

Instrument: R-BALANCE-07

Lot # MeOH:  
 Lot # Sodium Bisulfate:  
 Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	Final WT	% Solid
17-208002376		R1801334-003	37.62	32.10		Manufacturer	5.52	0.91	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002379		R1801334-003	38.27	32.16		Manufacturer	6.11	0.82	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002160		R1801334-004	37.60	32.13		Manufacturer	5.47	0.91	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002371		R1801334-004	39.02	32.17		Manufacturer	6.85	0.73	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002349		R1801334-005	39.24	32.35		Manufacturer	6.89	0.73	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002368		R1801334-005	39.75	32.83		Manufacturer	6.92	0.72	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002189		R1801334-006	39.63	32.07		Manufacturer	7.56	0.66	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002190		R1801334-006	39.25	32.20		Manufacturer	7.05	0.71	2/12/2018	Field	2/16/2018	F. Naegler		
17-208002210		R1801334-007	36.51	32.30		Manufacturer	4.21	1.19	2/13/2018	Field	2/16/2018	F. Naegler	78.0	
17-208002209		R1801334-007	38.32	32.04		Manufacturer	6.28	0.80	2/13/2018	Field	2/16/2018	F. Naegler	78.0	
17-212000137		R1801334-008	38.67	32.56		Manufacturer	6.11	0.82	2/13/2018	Field	2/16/2018	F. Naegler		
17-212000158		R1801334-008	39.83	32.17		Manufacturer	7.66	0.65	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002280		R1801334-010	39.43	32.01		Manufacturer	7.42	0.67	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002230		R1801334-010	38.83	32.16		Manufacturer	6.67	0.75	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002418		R1801334-011	39.05	32.09		Manufacturer	6.96	0.72	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002277		R1801334-011	38.56	32.10		Manufacturer	6.46	0.77	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002208		R1801334-012	38.61	32.00		Manufacturer	6.61	0.76	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002232		R1801334-012	39.22	32.21		Manufacturer	7.01	0.71	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002229		R1801334-012	38.15	32.02		Manufacturer	6.13	0.82	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002224		R1801334-012	38.35	32.00		Manufacturer	6.35	0.79	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002377		R1801334-013	39.32	32.13		Manufacturer	7.19	0.70	2/13/2018	Field	2/16/2018	F. Naegler		
17-208002391		R1801334-013	39.40	32.10		Manufacturer	7.30	0.68	2/13/2018	Field	2/16/2018	F. Naegler		

Med Level based on 10 mLs MeOH  
 Low Level based on 5 mL DI

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Medium

Folder #: R1801334

Instrument: R-BALANCE-07

Lot # MeOH:

Lot # Sodium Bisulfate:

Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-276000211		R1801334-003	39.32	33.41		Manufacturer	5.91		2/12/2018	Field	2/16/2018	F. Naegler	
17-276000181		R1801334-004	34.77	33.39		Manufacturer	1.38		2/12/2018	Field	2/16/2018	F. Naegler	
17-276000190		R1801334-005	40.33	33.66		Manufacturer	6.67		2/12/2018	Field	2/16/2018	F. Naegler	
17-276000196		R1801334-006	40.76	33.28		Manufacturer	7.48		2/12/2018	Field	2/16/2018	F. Naegler	
17-276000195		R1801334-007	38.44	33.44		Manufacturer	5.00	2.22	2/13/2018	Field	2/16/2018	F. Naegler	78.0
17-276000199		R1801334-008	37.99	33.62		Manufacturer	4.37		2/13/2018	Field	2/16/2018	F. Naegler	
17-276000202		R1801334-010	40.96	33.36		Manufacturer	7.60		2/13/2018	Field	2/16/2018	F. Naegler	
17-276000204		R1801334-011	40.07	33.40		Manufacturer	6.67		2/13/2018	Field	2/16/2018	F. Naegler	
17-276000213		R1801334-012	40.23	33.51		Manufacturer	6.72		2/13/2018	Field	2/16/2018	F. Naegler	
17-276000207		R1801334-012	39.77	33.53		Manufacturer	6.24		2/13/2018	Field	2/16/2018	F. Naegler	
17-276000175		R1801334-013	39.84	33.68		Manufacturer	6.16		2/13/2018	Field	2/16/2018	F. Naegler	

Med Level based on 10 mLs MeOH  
Low Level based on 5 mL DI

Analysis: 8260-Soil  
 Date: 2/17/18  
 Instr: MS 14  
 Analyst: F. Paegle  
 Balance ID: OT  
 50 mL Class A used for dilution FV  
 pH strips: -  
 ResCl strips: -  
 Syringes: 181116 / 77958  
 Tune Method: 50151824  
 Run Method: J  
 LIMS Run#: 580738

Pos.	Sample	Diln.	Diln. Prep	RL	Tier	Vial	pH	File#	OK?	Comments
1	Bulk							C5020		
2	Bulk							21		
3	Bulk							22		
1	Bulk							23		
2	TUNE							24		
3	CEV							25		
4	LCS							26		
5	MBLK							27		
6	MBLK							28		
7	R1801384-003	0.93		12666	4	2	-	29		R01801721-04
8	↓ -010	0.86				2	-	30		ISJ / SUEJ ↓ (2 <sup>nd</sup> vial, no sample)
9	R1801334-012MS	0.79				4	-	31		ISJ ↓
10	Bulk							32		4 <sup>th</sup> vial (last) MS only
11								33		
12								34		
13								35		
14								36		
15								37		

FV 2/17/18

T6 Primary 500 : 187973 - Sand SmL  
 HCL Primary : 187975 -  
 Fr Primary : 188036 -  
 OCE Primary : 186749 -  
 Primary

All samples = 5 ml +

5 ul combined IS/Surr.  
 Fr Secondary 200 : 187905 - Sand  
 HCL Secondary : 187713 - Sand  
 OCE Secondary : 187747 - Sand  
 Secondary

10 ml purged

-125ul  
 1.00% Internal Std 53 : 187504  
 Reagents: = 2<sup>nd</sup> spike

Combined IS/Surr

Surrogate 53 : 187505  
 Internal Std 53 : 187504



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:08  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	120	1	02/21/18 19:33	2/20/18	
2,3,4,6-Tetrachlorophenol	400 U	400	97	1	02/21/18 19:33	2/20/18	
2,4,5-Trichlorophenol	390 U	390	98	1	02/21/18 19:33	2/20/18	
2,4,6-Trichlorophenol	390 U	390	110	1	02/21/18 19:33	2/20/18	
2,4-Dichlorophenol	390 U	390	81	1	02/21/18 19:33	2/20/18	
2,4-Dimethylphenol	390 U	390	75	1	02/21/18 19:33	2/20/18	
2,4-Dinitrophenol	2000 U	2000	74	1	02/21/18 19:33	2/20/18	
2,4-Dinitrotoluene	390 U	390	110	1	02/21/18 19:33	2/20/18	
2,6-Dinitrotoluene	390 U	390	140	1	02/21/18 19:33	2/20/18	
2-Chloronaphthalene	390 U	390	87	1	02/21/18 19:33	2/20/18	
2-Chlorophenol	390 U	390	96	1	02/21/18 19:33	2/20/18	
2-Methylnaphthalene	390 U	390	88	1	02/21/18 19:33	2/20/18	
2-Methylphenol	390 U	390	95	1	02/21/18 19:33	2/20/18	
2-Nitroaniline	2000 U	2000	120	1	02/21/18 19:33	2/20/18	
2-Nitrophenol	390 U	390	89	1	02/21/18 19:33	2/20/18	
3,3'-Dichlorobenzidine	390 U	390	130	1	02/21/18 19:33	2/20/18	
3- and 4-Methylphenol Coelution	390 U	390	99	1	02/21/18 19:33	2/20/18	
3-Nitroaniline	2000 U	2000	85	1	02/21/18 19:33	2/20/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	85	1	02/21/18 19:33	2/20/18	
4-Bromophenyl Phenyl Ether	390 U	390	120	1	02/21/18 19:33	2/20/18	
4-Chloro-3-methylphenol	390 U	390	90	1	02/21/18 19:33	2/20/18	
4-Chloroaniline	390 U	390	47	1	02/21/18 19:33	2/20/18	
4-Chlorophenyl Phenyl Ether	390 U	390	94	1	02/21/18 19:33	2/20/18	
4-Nitroaniline	2000 U	2000	87	1	02/21/18 19:33	2/20/18	
4-Nitrophenol	2000 U	2000	230	1	02/21/18 19:33	2/20/18	
Acenaphthene	390 U	390	87	1	02/21/18 19:33	2/20/18	
Acenaphthylene	390 U	390	80	1	02/21/18 19:33	2/20/18	
Acetophenone	390 U	390	92	1	02/21/18 19:33	2/20/18	
Anthracene	390 U	390	76	1	02/21/18 19:33	2/20/18	
Atrazine	390 U	390	110	1	02/21/18 19:33	2/20/18	
Benz(a)anthracene	<b>86 J</b>	390	69	1	02/21/18 19:33	2/20/18	
Benzaldehyde	2000 U	2000	93	1	02/21/18 19:33	2/20/18	
Benzo(a)pyrene	<b>91 J</b>	390	79	1	02/21/18 19:33	2/20/18	
Benzo(b)fluoranthene	<b>120 J</b>	390	72	1	02/21/18 19:33	2/20/18	
Benzo(g,h,i)perylene	<b>92 J</b>	390	90	1	02/21/18 19:33	2/20/18	
Benzo(k)fluoranthene	390 U	390	88	1	02/21/18 19:33	2/20/18	
Biphenyl	390 U	390	92	1	02/21/18 19:33	2/20/18	
2,2'-Oxybis(1-chloropropane)	390 U	390	96	1	02/21/18 19:33	2/20/18	
Bis(2-chloroethoxy)methane	390 U	390	90	1	02/21/18 19:33	2/20/18	
Bis(2-chloroethyl) Ether	390 U	390	72	1	02/21/18 19:33	2/20/18	
Bis(2-ethylhexyl) Phthalate	590 U	590	550	1	02/21/18 19:33	2/20/18	
Butyl Benzyl Phthalate	390 U	390	75	1	02/21/18 19:33	2/20/18	
Caprolactam	390 U	390	87	1	02/21/18 19:33	2/20/18	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:08  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	97	1	02/21/18 19:33	2/20/18	
Chrysene	<b>100 J</b>	390	77	1	02/21/18 19:33	2/20/18	
Di-n-butyl Phthalate	390 U	390	140	1	02/21/18 19:33	2/20/18	
Di-n-octyl Phthalate	390 U	390	120	1	02/21/18 19:33	2/20/18	
Dibenz(a,h)anthracene	390 U	390	71	1	02/21/18 19:33	2/20/18	
Dibenzofuran	390 U	390	80	1	02/21/18 19:33	2/20/18	
Diethyl Phthalate	390 U	390	220	1	02/21/18 19:33	2/20/18	
Dimethyl Phthalate	390 U	390	110	1	02/21/18 19:33	2/20/18	
Fluoranthene	<b>160 J</b>	390	92	1	02/21/18 19:33	2/20/18	
Fluorene	390 U	390	99	1	02/21/18 19:33	2/20/18	
Hexachlorobenzene	390 U	390	92	1	02/21/18 19:33	2/20/18	
Hexachlorobutadiene	390 U	390	67	1	02/21/18 19:33	2/20/18	
Hexachlorocyclopentadiene	390 U	390	65	1	02/21/18 19:33	2/20/18	
Hexachloroethane	390 U	390	69	1	02/21/18 19:33	2/20/18	
Indeno(1,2,3-cd)pyrene	<b>90 J</b>	390	87	1	02/21/18 19:33	2/20/18	
Isophorone	390 U	390	85	1	02/21/18 19:33	2/20/18	
N-Nitrosodi-n-propylamine	390 U	390	72	1	02/21/18 19:33	2/20/18	
N-Nitrosodiphenylamine	390 U	390	180	1	02/21/18 19:33	2/20/18	
Naphthalene	390 U	390	81	1	02/21/18 19:33	2/20/18	
Nitrobenzene	390 U	390	81	1	02/21/18 19:33	2/20/18	
Pentachlorophenol (PCP)	2000 U	2000	130	1	02/21/18 19:33	2/20/18	
Phenanthrene	<b>91 J</b>	390	82	1	02/21/18 19:33	2/20/18	
Phenol	390 U	390	86	1	02/21/18 19:33	2/20/18	
Pyrene	<b>150 J</b>	390	77	1	02/21/18 19:33	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	41	13 - 128	02/21/18 19:33	
2-Fluorobiphenyl	24	10 - 102	02/21/18 19:33	
2-Fluorophenol	24	16 - 129	02/21/18 19:33	
Nitrobenzene-d5	28	10 - 95	02/21/18 19:33	
Phenol-d6	24	10 - 145	02/21/18 19:33	
Terphenyl-d14	41	16 - 126	02/21/18 19:33	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:48  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	510 U	510	150	1	02/22/18 11:38	2/20/18	
2,3,4,6-Tetrachlorophenol	520 U	520	130	1	02/22/18 11:38	2/20/18	
2,4,5-Trichlorophenol	510 U	510	130	1	02/22/18 11:38	2/20/18	
2,4,6-Trichlorophenol	510 U	510	140	1	02/22/18 11:38	2/20/18	
2,4-Dichlorophenol	510 U	510	110	1	02/22/18 11:38	2/20/18	
2,4-Dimethylphenol	510 U	510	98	1	02/22/18 11:38	2/20/18	
2,4-Dinitrophenol	2600 U	2600	96	1	02/22/18 11:38	2/20/18	
2,4-Dinitrotoluene	510 U	510	140	1	02/22/18 11:38	2/20/18	
2,6-Dinitrotoluene	510 U	510	180	1	02/22/18 11:38	2/20/18	
2-Chloronaphthalene	510 U	510	120	1	02/22/18 11:38	2/20/18	
2-Chlorophenol	510 U	510	130	1	02/22/18 11:38	2/20/18	
2-Methylnaphthalene	510 U	510	120	1	02/22/18 11:38	2/20/18	
2-Methylphenol	510 U	510	130	1	02/22/18 11:38	2/20/18	
2-Nitroaniline	2600 U	2600	150	1	02/22/18 11:38	2/20/18	
2-Nitrophenol	510 U	510	120	1	02/22/18 11:38	2/20/18	
3,3'-Dichlorobenzidine	510 U	510	160	1	02/22/18 11:38	2/20/18	
3- and 4-Methylphenol Coelution	<b>170 J</b>	510	130	1	02/22/18 11:38	2/20/18	
3-Nitroaniline	2600 U	2600	120	1	02/22/18 11:38	2/20/18	
4,6-Dinitro-2-methylphenol	2600 U	2600	120	1	02/22/18 11:38	2/20/18	
4-Bromophenyl Phenyl Ether	510 U	510	150	1	02/22/18 11:38	2/20/18	
4-Chloro-3-methylphenol	510 U	510	120	1	02/22/18 11:38	2/20/18	
4-Chloroaniline	510 U	510	61	1	02/22/18 11:38	2/20/18	
4-Chlorophenyl Phenyl Ether	510 U	510	130	1	02/22/18 11:38	2/20/18	
4-Nitroaniline	2600 U	2600	120	1	02/22/18 11:38	2/20/18	
4-Nitrophenol	2600 U	2600	300	1	02/22/18 11:38	2/20/18	
Acenaphthene	510 U	510	120	1	02/22/18 11:38	2/20/18	
Acenaphthylene	510 U	510	110	1	02/22/18 11:38	2/20/18	
Acetophenone	510 U	510	120	1	02/22/18 11:38	2/20/18	
Anthracene	<b>170 J</b>	510	99	1	02/22/18 11:38	2/20/18	
Atrazine	510 U	510	140	1	02/22/18 11:38	2/20/18	
Benz(a)anthracene	<b>450 J</b>	510	90	1	02/22/18 11:38	2/20/18	
Benzaldehyde	2600 U	2600	130	1	02/22/18 11:38	2/20/18	
Benzo(a)pyrene	<b>400 J</b>	510	110	1	02/22/18 11:38	2/20/18	
Benzo(b)fluoranthene	<b>480 J</b>	510	93	1	02/22/18 11:38	2/20/18	
Benzo(g,h,i)perylene	<b>270 J</b>	510	120	1	02/22/18 11:38	2/20/18	
Benzo(k)fluoranthene	<b>190 J</b>	510	120	1	02/22/18 11:38	2/20/18	
Biphenyl	510 U	510	120	1	02/22/18 11:38	2/20/18	
2,2'-Oxybis(1-chloropropane)	510 U	510	130	1	02/22/18 11:38	2/20/18	
Bis(2-chloroethoxy)methane	510 U	510	120	1	02/22/18 11:38	2/20/18	
Bis(2-chloroethyl) Ether	510 U	510	93	1	02/22/18 11:38	2/20/18	
Bis(2-ethylhexyl) Phthalate	780 U	780	710	1	02/22/18 11:38	2/20/18	
Butyl Benzyl Phthalate	510 U	510	98	1	02/22/18 11:38	2/20/18	
Caprolactam	510 U	510	120	1	02/22/18 11:38	2/20/18	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:48  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	150 J	510	130	1	02/22/18 11:38	2/20/18	
Chrysene	490 J	510	110	1	02/22/18 11:38	2/20/18	
Di-n-butyl Phthalate	510 U	510	180	1	02/22/18 11:38	2/20/18	
Di-n-octyl Phthalate	510 U	510	160	1	02/22/18 11:38	2/20/18	
Dibenz(a,h)anthracene	510 U	510	93	1	02/22/18 11:38	2/20/18	
Dibenzofuran	510 U	510	110	1	02/22/18 11:38	2/20/18	
Diethyl Phthalate	510 U	510	280	1	02/22/18 11:38	2/20/18	
Dimethyl Phthalate	510 U	510	150	1	02/22/18 11:38	2/20/18	
Fluoranthene	980	510	120	1	02/22/18 11:38	2/20/18	
Fluorene	510 U	510	130	1	02/22/18 11:38	2/20/18	
Hexachlorobenzene	510 U	510	120	1	02/22/18 11:38	2/20/18	
Hexachlorobutadiene	510 U	510	87	1	02/22/18 11:38	2/20/18	
Hexachlorocyclopentadiene	510 U	510	85	1	02/22/18 11:38	2/20/18	
Hexachloroethane	510 U	510	90	1	02/22/18 11:38	2/20/18	
Indeno(1,2,3-cd)pyrene	290 J	510	120	1	02/22/18 11:38	2/20/18	
Isophorone	510 U	510	120	1	02/22/18 11:38	2/20/18	
N-Nitrosodi-n-propylamine	510 U	510	93	1	02/22/18 11:38	2/20/18	
N-Nitrosodiphenylamine	510 U	510	230	1	02/22/18 11:38	2/20/18	
Naphthalene	510 U	510	110	1	02/22/18 11:38	2/20/18	
Nitrobenzene	510 U	510	110	1	02/22/18 11:38	2/20/18	
Pentachlorophenol (PCP)	2600 U	2600	170	1	02/22/18 11:38	2/20/18	
Phenanthrene	880	510	110	1	02/22/18 11:38	2/20/18	
Phenol	510 U	510	120	1	02/22/18 11:38	2/20/18	
Pyrene	800	510	100	1	02/22/18 11:38	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	48	13 - 128	02/22/18 11:38	
2-Fluorobiphenyl	13	10 - 102	02/22/18 11:38	
2-Fluorophenol	32	16 - 129	02/22/18 11:38	
Nitrobenzene-d5	34	10 - 95	02/22/18 11:38	
Phenol-d6	39	10 - 145	02/22/18 11:38	
Terphenyl-d14	21	16 - 126	02/22/18 11:38	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	720 U	720	220	2	02/22/18 12:06	2/20/18	
2,3,4,6-Tetrachlorophenol	730 U	730	180	2	02/22/18 12:06	2/20/18	
2,4,5-Trichlorophenol	720 U	720	180	2	02/22/18 12:06	2/20/18	
2,4,6-Trichlorophenol	720 U	720	190	2	02/22/18 12:06	2/20/18	
2,4-Dichlorophenol	720 U	720	150	2	02/22/18 12:06	2/20/18	
2,4-Dimethylphenol	720 U	720	140	2	02/22/18 12:06	2/20/18	
2,4-Dinitrophenol	3700 U	3700	140	2	02/22/18 12:06	2/20/18	
2,4-Dinitrotoluene	720 U	720	190	2	02/22/18 12:06	2/20/18	
2,6-Dinitrotoluene	720 U	720	260	2	02/22/18 12:06	2/20/18	
2-Chloronaphthalene	720 U	720	160	2	02/22/18 12:06	2/20/18	
2-Chlorophenol	720 U	720	180	2	02/22/18 12:06	2/20/18	
2-Methylnaphthalene	720 U	720	170	2	02/22/18 12:06	2/20/18	
2-Methylphenol	720 U	720	180	2	02/22/18 12:06	2/20/18	
2-Nitroaniline	3700 U	3700	210	2	02/22/18 12:06	2/20/18	
2-Nitrophenol	720 U	720	170	2	02/22/18 12:06	2/20/18	
3,3'-Dichlorobenzidine	720 U	720	230	2	02/22/18 12:06	2/20/18	
3- and 4-Methylphenol Coelution	720 U	720	190	2	02/22/18 12:06	2/20/18	
3-Nitroaniline	3700 U	3700	160	2	02/22/18 12:06	2/20/18	
4,6-Dinitro-2-methylphenol	3700 U	3700	160	2	02/22/18 12:06	2/20/18	
4-Bromophenyl Phenyl Ether	720 U	720	210	2	02/22/18 12:06	2/20/18	
4-Chloro-3-methylphenol	720 U	720	170	2	02/22/18 12:06	2/20/18	
4-Chloroaniline	720 U	720	87	2	02/22/18 12:06	2/20/18	
4-Chlorophenyl Phenyl Ether	720 U	720	180	2	02/22/18 12:06	2/20/18	
4-Nitroaniline	3700 U	3700	160	2	02/22/18 12:06	2/20/18	
4-Nitrophenol	3700 U	3700	430	2	02/22/18 12:06	2/20/18	
Acenaphthene	720 U	720	160	2	02/22/18 12:06	2/20/18	
Acenaphthylene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Acetophenone	720 U	720	170	2	02/22/18 12:06	2/20/18	
Anthracene	720 U	720	140	2	02/22/18 12:06	2/20/18	
Atrazine	720 U	720	200	2	02/22/18 12:06	2/20/18	
Benz(a)anthracene	720 U	720	130	2	02/22/18 12:06	2/20/18	
Benzaldehyde	3700 U	3700	180	2	02/22/18 12:06	2/20/18	
Benzo(a)pyrene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Benzo(b)fluoranthene	160 J	720	140	2	02/22/18 12:06	2/20/18	
Benzo(g,h,i)perylene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Benzo(k)fluoranthene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Biphenyl	720 U	720	170	2	02/22/18 12:06	2/20/18	
2,2'-Oxybis(1-chloropropane)	720 U	720	180	2	02/22/18 12:06	2/20/18	
Bis(2-chloroethoxy)methane	720 U	720	170	2	02/22/18 12:06	2/20/18	
Bis(2-chloroethyl) Ether	720 U	720	140	2	02/22/18 12:06	2/20/18	
Bis(2-ethylhexyl) Phthalate	1100 U	1100	1100	2	02/22/18 12:06	2/20/18	
Butyl Benzyl Phthalate	720 U	720	140	2	02/22/18 12:06	2/20/18	
Caprolactam	720 U	720	170	2	02/22/18 12:06	2/20/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	720 U	720	180	2	02/22/18 12:06	2/20/18	
Chrysene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Di-n-butyl Phthalate	720 U	720	250	2	02/22/18 12:06	2/20/18	
Di-n-octyl Phthalate	720 U	720	220	2	02/22/18 12:06	2/20/18	
Dibenz(a,h)anthracene	720 U	720	140	2	02/22/18 12:06	2/20/18	
Dibenzofuran	720 U	720	150	2	02/22/18 12:06	2/20/18	
Diethyl Phthalate	720 U	720	400	2	02/22/18 12:06	2/20/18	
Dimethyl Phthalate	720 U	720	200	2	02/22/18 12:06	2/20/18	
Fluoranthene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Fluorene	720 U	720	190	2	02/22/18 12:06	2/20/18	
Hexachlorobenzene	720 U	720	170	2	02/22/18 12:06	2/20/18	
Hexachlorobutadiene	720 U	720	130	2	02/22/18 12:06	2/20/18	
Hexachlorocyclopentadiene	720 U	720	120	2	02/22/18 12:06	2/20/18	
Hexachloroethane	720 U	720	130	2	02/22/18 12:06	2/20/18	
Indeno(1,2,3-cd)pyrene	720 U	720	160	2	02/22/18 12:06	2/20/18	
Isophorone	720 U	720	160	2	02/22/18 12:06	2/20/18	
N-Nitrosodi-n-propylamine	720 U	720	140	2	02/22/18 12:06	2/20/18	
N-Nitrosodiphenylamine	720 U	720	330	2	02/22/18 12:06	2/20/18	
Naphthalene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Nitrobenzene	720 U	720	150	2	02/22/18 12:06	2/20/18	
Pentachlorophenol (PCP)	3700 U	3700	240	2	02/22/18 12:06	2/20/18	
Phenanthrene	720 U	720	160	2	02/22/18 12:06	2/20/18	
Phenol	720 U	720	160	2	02/22/18 12:06	2/20/18	
Pyrene	720 U	720	150	2	02/22/18 12:06	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	13 - 128	02/22/18 12:06	
2-Fluorobiphenyl	53	10 - 102	02/22/18 12:06	
2-Fluorophenol	38	16 - 129	02/22/18 12:06	
Nitrobenzene-d5	44	10 - 95	02/22/18 12:06	
Phenol-d6	46	10 - 145	02/22/18 12:06	
Terphenyl-d14	73	16 - 126	02/22/18 12:06	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	420 U	420	130	1	02/22/18 11:10	2/20/18	
2,3,4,6-Tetrachlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,4,5-Trichlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,4,6-Trichlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,4-Dichlorophenol	420 U	420	86	1	02/22/18 11:10	2/20/18	
2,4-Dimethylphenol	420 U	420	80	1	02/22/18 11:10	2/20/18	
2,4-Dinitrophenol	2200 U	2200	79	1	02/22/18 11:10	2/20/18	
2,4-Dinitrotoluene	420 U	420	110	1	02/22/18 11:10	2/20/18	
2,6-Dinitrotoluene	420 U	420	150	1	02/22/18 11:10	2/20/18	
2-Chloronaphthalene	420 U	420	93	1	02/22/18 11:10	2/20/18	
2-Chlorophenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2-Methylnaphthalene	1800	420	94	1	02/22/18 11:10	2/20/18	
2-Methylphenol	420 U	420	110	1	02/22/18 11:10	2/20/18	
2-Nitroaniline	2200 U	2200	120	1	02/22/18 11:10	2/20/18	
2-Nitrophenol	420 U	420	95	1	02/22/18 11:10	2/20/18	
3,3'-Dichlorobenzidine	420 U	420	130	1	02/22/18 11:10	2/20/18	
3- and 4-Methylphenol Coelution	420 U	420	110	1	02/22/18 11:10	2/20/18	
3-Nitroaniline	2200 U	2200	91	1	02/22/18 11:10	2/20/18	
4,6-Dinitro-2-methylphenol	2200 U	2200	91	1	02/22/18 11:10	2/20/18	
4-Bromophenyl Phenyl Ether	420 U	420	120	1	02/22/18 11:10	2/20/18	
4-Chloro-3-methylphenol	420 U	420	96	1	02/22/18 11:10	2/20/18	
4-Chloroaniline	420 U	420	50	1	02/22/18 11:10	2/20/18	
4-Chlorophenyl Phenyl Ether	420 U	420	100	1	02/22/18 11:10	2/20/18	
4-Nitroaniline	2200 U	2200	92	1	02/22/18 11:10	2/20/18	
4-Nitrophenol	2200 U	2200	250	1	02/22/18 11:10	2/20/18	
Acenaphthene	220 J	420	93	1	02/22/18 11:10	2/20/18	
Acenaphthylene	420 U	420	86	1	02/22/18 11:10	2/20/18	
Acetophenone	420 U	420	98	1	02/22/18 11:10	2/20/18	
Anthracene	420 U	420	81	1	02/22/18 11:10	2/20/18	
Atrazine	420 U	420	120	1	02/22/18 11:10	2/20/18	
Benz(a)anthracene	420 U	420	73	1	02/22/18 11:10	2/20/18	
Benzaldehyde	2200 U	2200	100	1	02/22/18 11:10	2/20/18	
Benzo(a)pyrene	420 U	420	84	1	02/22/18 11:10	2/20/18	
Benzo(b)fluoranthene	420 U	420	77	1	02/22/18 11:10	2/20/18	
Benzo(g,h,i)perylene	420 U	420	96	1	02/22/18 11:10	2/20/18	
Benzo(k)fluoranthene	420 U	420	94	1	02/22/18 11:10	2/20/18	
Biphenyl	220 J	420	98	1	02/22/18 11:10	2/20/18	
2,2'-Oxybis(1-chloropropane)	420 U	420	110	1	02/22/18 11:10	2/20/18	
Bis(2-chloroethoxy)methane	420 U	420	96	1	02/22/18 11:10	2/20/18	
Bis(2-chloroethyl) Ether	420 U	420	76	1	02/22/18 11:10	2/20/18	
Bis(2-ethylhexyl) Phthalate	630 U	630	590	1	02/22/18 11:10	2/20/18	
Butyl Benzyl Phthalate	420 U	420	80	1	02/22/18 11:10	2/20/18	
Caprolactam	420 U	420	93	1	02/22/18 11:10	2/20/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	420 U	420	110	1	02/22/18 11:10	2/20/18	
Chrysene	420 U	420	83	1	02/22/18 11:10	2/20/18	
Di-n-butyl Phthalate	420 U	420	140	1	02/22/18 11:10	2/20/18	
Di-n-octyl Phthalate	420 U	420	130	1	02/22/18 11:10	2/20/18	
Dibenz(a,h)anthracene	420 U	420	76	1	02/22/18 11:10	2/20/18	
Dibenzofuran	420 U	420	86	1	02/22/18 11:10	2/20/18	
Diethyl Phthalate	420 U	420	230	1	02/22/18 11:10	2/20/18	
Dimethyl Phthalate	420 U	420	120	1	02/22/18 11:10	2/20/18	
Fluoranthene	420 U	420	99	1	02/22/18 11:10	2/20/18	
Fluorene	<b>350 J</b>	420	110	1	02/22/18 11:10	2/20/18	
Hexachlorobenzene	420 U	420	98	1	02/22/18 11:10	2/20/18	
Hexachlorobutadiene	420 U	420	71	1	02/22/18 11:10	2/20/18	
Hexachlorocyclopentadiene	420 U	420	70	1	02/22/18 11:10	2/20/18	
Hexachloroethane	420 U	420	73	1	02/22/18 11:10	2/20/18	
Indeno(1,2,3-cd)pyrene	420 U	420	93	1	02/22/18 11:10	2/20/18	
Isophorone	420 U	420	91	1	02/22/18 11:10	2/20/18	
N-Nitrosodi-n-propylamine	420 U	420	76	1	02/22/18 11:10	2/20/18	
N-Nitrosodiphenylamine	420 U	420	190	1	02/22/18 11:10	2/20/18	
Naphthalene	<b>250 J</b>	420	86	1	02/22/18 11:10	2/20/18	
Nitrobenzene	420 U	420	86	1	02/22/18 11:10	2/20/18	
Pentachlorophenol (PCP)	2200 U	2200	140	1	02/22/18 11:10	2/20/18	
Phenanthrene	<b>1300</b>	420	87	1	02/22/18 11:10	2/20/18	
Phenol	420 U	420	92	1	02/22/18 11:10	2/20/18	
Pyrene	420 U	420	82	1	02/22/18 11:10	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	13 - 128	02/22/18 11:10	
2-Fluorobiphenyl	35	10 - 102	02/22/18 11:10	
2-Fluorophenol	41	16 - 129	02/22/18 11:10	
Nitrobenzene-d5	45	10 - 95	02/22/18 11:10	
Phenol-d6	44	10 - 145	02/22/18 11:10	
Terphenyl-d14	60	16 - 126	02/22/18 11:10	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 11:29  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	02/22/18 12:34	2/20/18	
2,3,4,6-Tetrachlorophenol	400 U	400	98	1	02/22/18 12:34	2/20/18	
2,4,5-Trichlorophenol	400 U	400	99	1	02/22/18 12:34	2/20/18	
2,4,6-Trichlorophenol	400 U	400	110	1	02/22/18 12:34	2/20/18	
2,4-Dichlorophenol	400 U	400	82	1	02/22/18 12:34	2/20/18	
2,4-Dimethylphenol	400 U	400	76	1	02/22/18 12:34	2/20/18	
2,4-Dinitrophenol	2000 U	2000	75	1	02/22/18 12:34	2/20/18	
2,4-Dinitrotoluene	400 U	400	110	1	02/22/18 12:34	2/20/18	
2,6-Dinitrotoluene	400 U	400	140	1	02/22/18 12:34	2/20/18	
2-Chloronaphthalene	400 U	400	88	1	02/22/18 12:34	2/20/18	
2-Chlorophenol	400 U	400	97	1	02/22/18 12:34	2/20/18	
2-Methylnaphthalene	400 U	400	89	1	02/22/18 12:34	2/20/18	
2-Methylphenol	400 U	400	97	1	02/22/18 12:34	2/20/18	
2-Nitroaniline	2000 U	2000	120	1	02/22/18 12:34	2/20/18	
2-Nitrophenol	400 U	400	91	1	02/22/18 12:34	2/20/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	02/22/18 12:34	2/20/18	
3- and 4-Methylphenol Coelution	400 U	400	100	1	02/22/18 12:34	2/20/18	
3-Nitroaniline	2000 U	2000	86	1	02/22/18 12:34	2/20/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	86	1	02/22/18 12:34	2/20/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	02/22/18 12:34	2/20/18	
4-Chloro-3-methylphenol	400 U	400	91	1	02/22/18 12:34	2/20/18	
4-Chloroaniline	400 U	400	48	1	02/22/18 12:34	2/20/18	
4-Chlorophenyl Phenyl Ether	400 U	400	95	1	02/22/18 12:34	2/20/18	
4-Nitroaniline	2000 U	2000	88	1	02/22/18 12:34	2/20/18	
4-Nitrophenol	2000 U	2000	240	1	02/22/18 12:34	2/20/18	
Acenaphthene	400 U	400	88	1	02/22/18 12:34	2/20/18	
Acenaphthylene	400 U	400	81	1	02/22/18 12:34	2/20/18	
Acetophenone	400 U	400	93	1	02/22/18 12:34	2/20/18	
Anthracene	400 U	400	77	1	02/22/18 12:34	2/20/18	
Atrazine	400 U	400	110	1	02/22/18 12:34	2/20/18	
Benz(a)anthracene	400 U	400	70	1	02/22/18 12:34	2/20/18	
Benzaldehyde	2000 U	2000	95	1	02/22/18 12:34	2/20/18	
Benzo(a)pyrene	400 U	400	80	1	02/22/18 12:34	2/20/18	
Benzo(b)fluoranthene	400 U	400	73	1	02/22/18 12:34	2/20/18	
Benzo(g,h,i)perylene	400 U	400	91	1	02/22/18 12:34	2/20/18	
Benzo(k)fluoranthene	400 U	400	89	1	02/22/18 12:34	2/20/18	
Biphenyl	400 U	400	93	1	02/22/18 12:34	2/20/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	98	1	02/22/18 12:34	2/20/18	
Bis(2-chloroethoxy)methane	400 U	400	91	1	02/22/18 12:34	2/20/18	
Bis(2-chloroethyl) Ether	400 U	400	73	1	02/22/18 12:34	2/20/18	
Bis(2-ethylhexyl) Phthalate	600 U	600	560	1	02/22/18 12:34	2/20/18	
Butyl Benzyl Phthalate	400 U	400	76	1	02/22/18 12:34	2/20/18	
Caprolactam	400 U	400	89	1	02/22/18 12:34	2/20/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 11:29  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	400 U	400	99	1	02/22/18 12:34	2/20/18	
Chrysene	400 U	400	78	1	02/22/18 12:34	2/20/18	
Di-n-butyl Phthalate	400 U	400	140	1	02/22/18 12:34	2/20/18	
Di-n-octyl Phthalate	400 U	400	120	1	02/22/18 12:34	2/20/18	
Dibenz(a,h)anthracene	400 U	400	72	1	02/22/18 12:34	2/20/18	
Dibenzofuran	400 U	400	82	1	02/22/18 12:34	2/20/18	
Diethyl Phthalate	400 U	400	220	1	02/22/18 12:34	2/20/18	
Dimethyl Phthalate	400 U	400	110	1	02/22/18 12:34	2/20/18	
Fluoranthene	400 U	400	94	1	02/22/18 12:34	2/20/18	
Fluorene	400 U	400	100	1	02/22/18 12:34	2/20/18	
Hexachlorobenzene	400 U	400	93	1	02/22/18 12:34	2/20/18	
Hexachlorobutadiene	400 U	400	68	1	02/22/18 12:34	2/20/18	
Hexachlorocyclopentadiene	400 U	400	66	1	02/22/18 12:34	2/20/18	
Hexachloroethane	400 U	400	70	1	02/22/18 12:34	2/20/18	
Indeno(1,2,3-cd)pyrene	400 U	400	88	1	02/22/18 12:34	2/20/18	
Isophorone	400 U	400	86	1	02/22/18 12:34	2/20/18	
N-Nitrosodi-n-propylamine	400 U	400	72	1	02/22/18 12:34	2/20/18	
N-Nitrosodiphenylamine	400 U	400	180	1	02/22/18 12:34	2/20/18	
Naphthalene	400 U	400	82	1	02/22/18 12:34	2/20/18	
Nitrobenzene	400 U	400	82	1	02/22/18 12:34	2/20/18	
Pentachlorophenol (PCP)	2000 U	2000	140	1	02/22/18 12:34	2/20/18	
Phenanthrene	400 U	400	83	1	02/22/18 12:34	2/20/18	
Phenol	400 U	400	87	1	02/22/18 12:34	2/20/18	
Pyrene	400 U	400	78	1	02/22/18 12:34	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	62	13 - 128	02/22/18 12:34	
2-Fluorobiphenyl	37	10 - 102	02/22/18 12:34	
2-Fluorophenol	37	16 - 129	02/22/18 12:34	
Nitrobenzene-d5	44	10 - 95	02/22/18 12:34	
Phenol-d6	38	10 - 145	02/22/18 12:34	
Terphenyl-d14	58	16 - 126	02/22/18 12:34	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 16:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	370 U	370	110	1	02/22/18 13:01	2/20/18	
2,3,4,6-Tetrachlorophenol	370 U	370	91	1	02/22/18 13:01	2/20/18	
2,4,5-Trichlorophenol	370 U	370	92	1	02/22/18 13:01	2/20/18	
2,4,6-Trichlorophenol	370 U	370	96	1	02/22/18 13:01	2/20/18	
2,4-Dichlorophenol	370 U	370	76	1	02/22/18 13:01	2/20/18	
2,4-Dimethylphenol	370 U	370	71	1	02/22/18 13:01	2/20/18	
2,4-Dinitrophenol	1900 U	1900	69	1	02/22/18 13:01	2/20/18	
2,4-Dinitrotoluene	370 U	370	96	1	02/22/18 13:01	2/20/18	
2,6-Dinitrotoluene	370 U	370	130	1	02/22/18 13:01	2/20/18	
2-Chloronaphthalene	370 U	370	82	1	02/22/18 13:01	2/20/18	
2-Chlorophenol	370 U	370	90	1	02/22/18 13:01	2/20/18	
2-Methylnaphthalene	370 U	370	83	1	02/22/18 13:01	2/20/18	
2-Methylphenol	370 U	370	90	1	02/22/18 13:01	2/20/18	
2-Nitroaniline	1900 U	1900	110	1	02/22/18 13:01	2/20/18	
2-Nitrophenol	370 U	370	84	1	02/22/18 13:01	2/20/18	
3,3'-Dichlorobenzidine	370 U	370	120	1	02/22/18 13:01	2/20/18	
3- and 4-Methylphenol Coelution	370 U	370	93	1	02/22/18 13:01	2/20/18	
3-Nitroaniline	1900 U	1900	80	1	02/22/18 13:01	2/20/18	
4,6-Dinitro-2-methylphenol	1900 U	1900	80	1	02/22/18 13:01	2/20/18	
4-Bromophenyl Phenyl Ether	370 U	370	110	1	02/22/18 13:01	2/20/18	
4-Chloro-3-methylphenol	370 U	370	84	1	02/22/18 13:01	2/20/18	
4-Chloroaniline	370 U	370	45	1	02/22/18 13:01	2/20/18	
4-Chlorophenyl Phenyl Ether	370 U	370	88	1	02/22/18 13:01	2/20/18	
4-Nitroaniline	1900 U	1900	82	1	02/22/18 13:01	2/20/18	
4-Nitrophenol	1900 U	1900	220	1	02/22/18 13:01	2/20/18	
Acenaphthene	370 U	370	82	1	02/22/18 13:01	2/20/18	
Acenaphthylene	370 U	370	76	1	02/22/18 13:01	2/20/18	
Acetophenone	370 U	370	86	1	02/22/18 13:01	2/20/18	
Anthracene	370 U	370	72	1	02/22/18 13:01	2/20/18	
Atrazine	370 U	370	100	1	02/22/18 13:01	2/20/18	
Benz(a)anthracene	<b>93 J</b>	370	65	1	02/22/18 13:01	2/20/18	
Benzaldehyde	1900 U	1900	88	1	02/22/18 13:01	2/20/18	
Benzo(a)pyrene	<b>100 J</b>	370	75	1	02/22/18 13:01	2/20/18	
Benzo(b)fluoranthene	<b>170 J</b>	370	68	1	02/22/18 13:01	2/20/18	
Benzo(g,h,i)perylene	<b>140 J</b>	370	84	1	02/22/18 13:01	2/20/18	
Benzo(k)fluoranthene	370 U	370	83	1	02/22/18 13:01	2/20/18	
Biphenyl	370 U	370	86	1	02/22/18 13:01	2/20/18	
2,2'-Oxybis(1-chloropropane)	370 U	370	91	1	02/22/18 13:01	2/20/18	
Bis(2-chloroethoxy)methane	370 U	370	85	1	02/22/18 13:01	2/20/18	
Bis(2-chloroethyl) Ether	370 U	370	67	1	02/22/18 13:01	2/20/18	
Bis(2-ethylhexyl) Phthalate	560 U	560	520	1	02/22/18 13:01	2/20/18	
Butyl Benzyl Phthalate	370 U	370	71	1	02/22/18 13:01	2/20/18	
Caprolactam	370 U	370	82	1	02/22/18 13:01	2/20/18	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 16:25  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

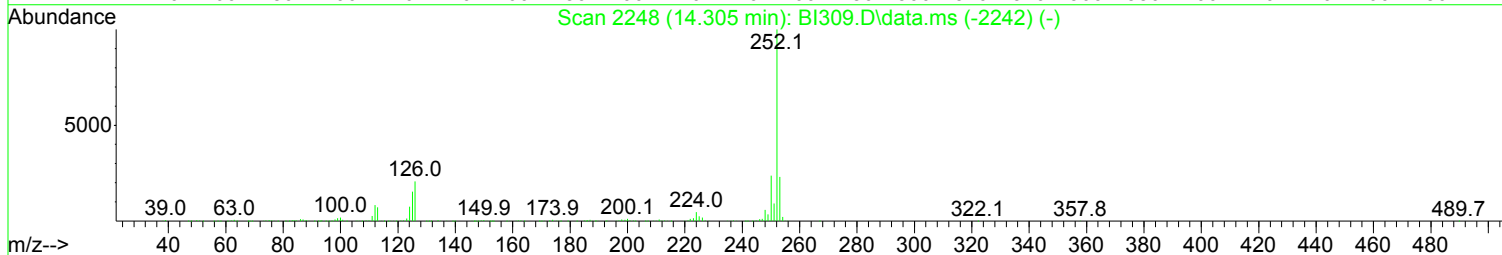
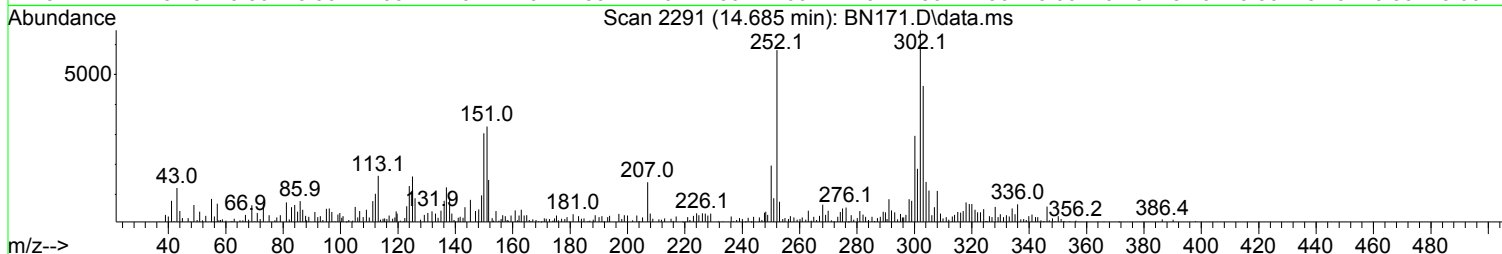
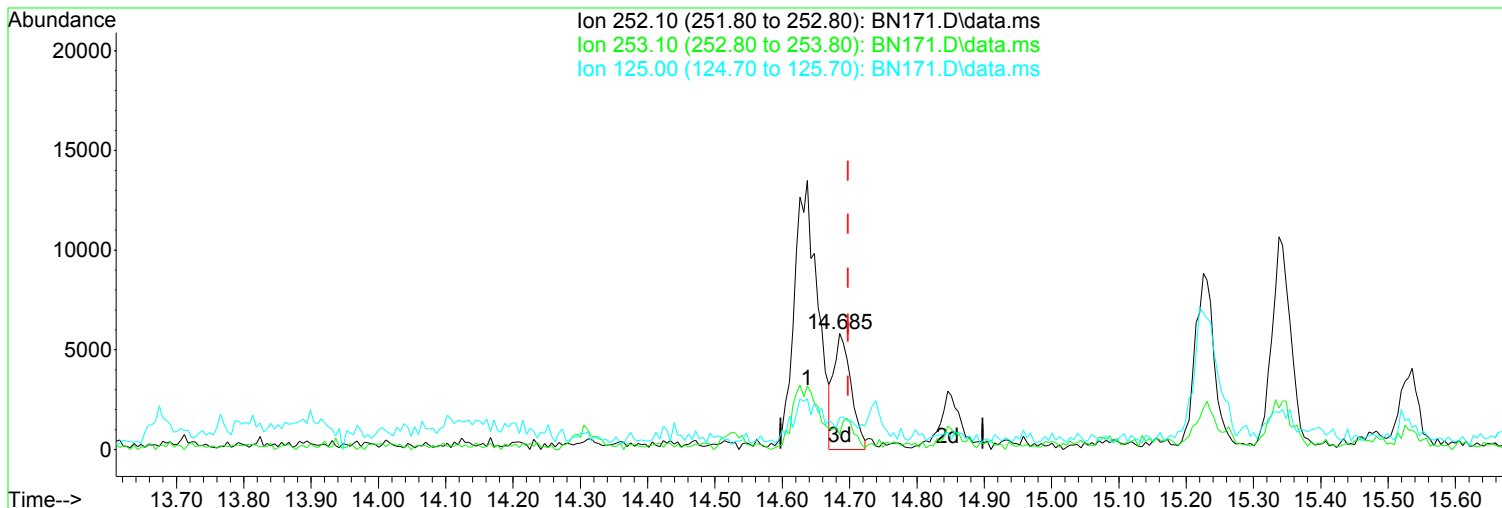
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	370 U	370	92	1	02/22/18 13:01	2/20/18	
Chrysene	110 J	370	73	1	02/22/18 13:01	2/20/18	
Di-n-butyl Phthalate	370 U	370	130	1	02/22/18 13:01	2/20/18	
Di-n-octyl Phthalate	370 U	370	120	1	02/22/18 13:01	2/20/18	
Dibenz(a,h)anthracene	370 U	370	67	1	02/22/18 13:01	2/20/18	
Dibenzofuran	370 U	370	76	1	02/22/18 13:01	2/20/18	
Diethyl Phthalate	370 U	370	210	1	02/22/18 13:01	2/20/18	
Dimethyl Phthalate	370 U	370	110	1	02/22/18 13:01	2/20/18	
Fluoranthene	110 J	370	87	1	02/22/18 13:01	2/20/18	
Fluorene	370 U	370	93	1	02/22/18 13:01	2/20/18	
Hexachlorobenzene	370 U	370	86	1	02/22/18 13:01	2/20/18	
Hexachlorobutadiene	370 U	370	63	1	02/22/18 13:01	2/20/18	
Hexachlorocyclopentadiene	370 U	370	61	1	02/22/18 13:01	2/20/18	
Hexachloroethane	370 U	370	65	1	02/22/18 13:01	2/20/18	
Indeno(1,2,3-cd)pyrene	110 J	370	82	1	02/22/18 13:01	2/20/18	
Isophorone	370 U	370	80	1	02/22/18 13:01	2/20/18	
N-Nitrosodi-n-propylamine	370 U	370	67	1	02/22/18 13:01	2/20/18	
N-Nitrosodiphenylamine	370 U	370	170	1	02/22/18 13:01	2/20/18	
Naphthalene	370 U	370	76	1	02/22/18 13:01	2/20/18	
Nitrobenzene	370 U	370	76	1	02/22/18 13:01	2/20/18	
Pentachlorophenol (PCP)	1900 U	1900	130	1	02/22/18 13:01	2/20/18	
Phenanthrene	370 U	370	77	1	02/22/18 13:01	2/20/18	
Phenol	370 U	370	81	1	02/22/18 13:01	2/20/18	
Pyrene	98 J	370	72	1	02/22/18 13:01	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	68	13 - 128	02/22/18 13:01	
2-Fluorobiphenyl	38	10 - 102	02/22/18 13:01	
2-Fluorophenol	37	16 - 129	02/22/18 13:01	
Nitrobenzene-d5	45	10 - 95	02/22/18 13:01	
Phenol-d6	38	10 - 145	02/22/18 13:01	
Terphenyl-d14	85	16 - 126	02/22/18 13:01	



Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN171.D  
Acq On : 21 Feb 2018 7:33 pm  
Operator : J.Misiurewicz  
Sample : R1801334-001  
Misc : 308593 8270D SOIL  
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 22 08:37:53 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



TIC: BN171.D\data.ms

(139) Benzo(k)fluoranthene (TM)

Manual Integration:

14.685min (-0.013) 1.04 ppm m

After

response 10357

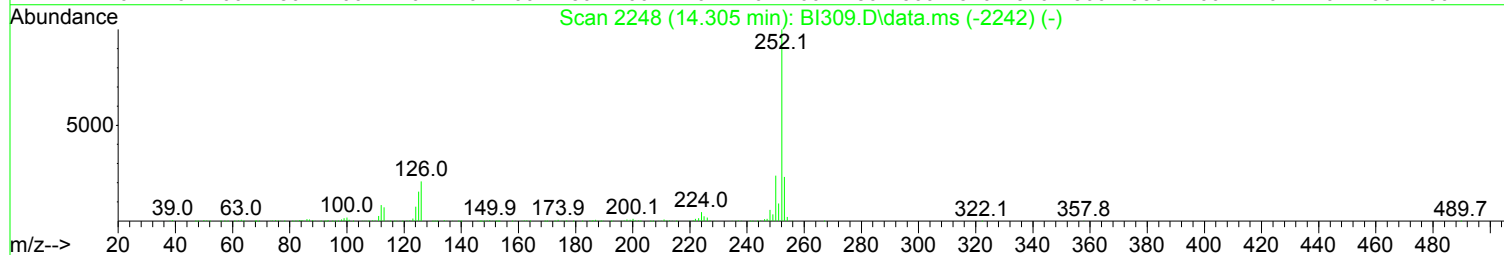
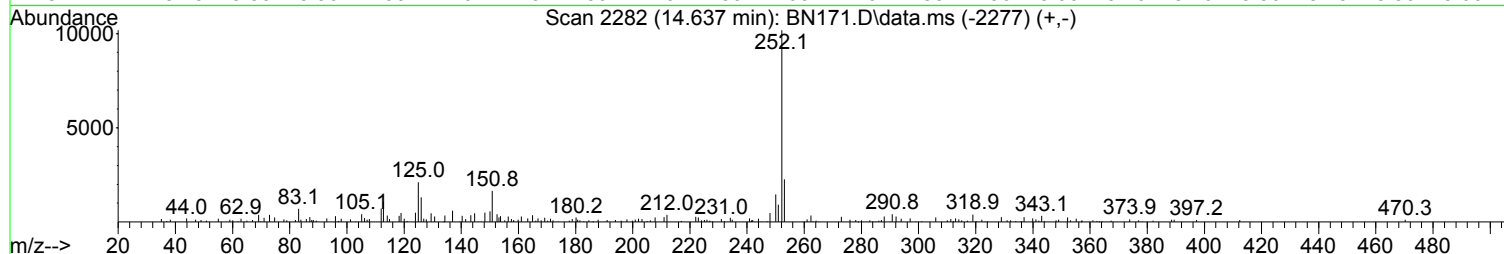
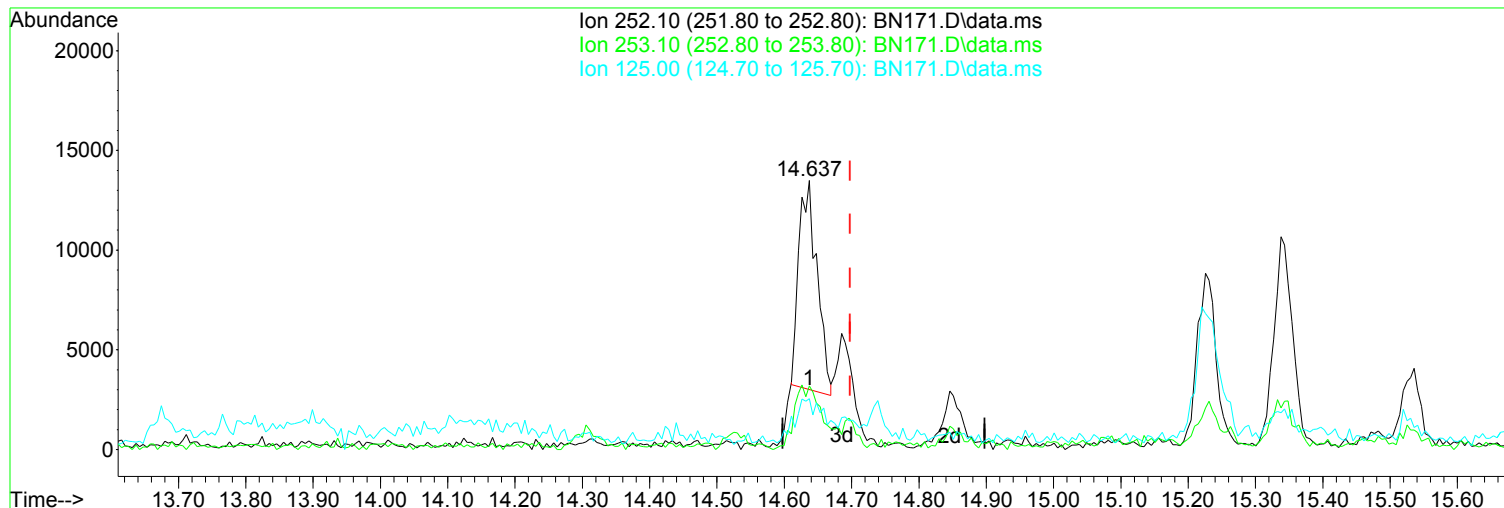
Wrong peak selected.

Ion	Exp%	Act%
252.10	100.00	100.00
253.10	21.80	12.93
125.00	13.80	27.47
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN171.D  
Acq On : 21 Feb 2018 7:33 pm  
Operator : J.Misiurewicz  
Sample : R1801334-001  
Misc : 308593 8270D SOIL  
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 22 08:37:53 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



TIC: BN171.D\data.ms

(139) Benzo(k)fluoranthene (TM)

Manual Integration:

14.637min (-0.061) 1.96 ppm

Before

response 19597

Ion	Exp%	Act%
252.10	100.00	100.00
253.10	21.80	22.28
125.00	13.80	9.65
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN171.D  
 Acq On : 21 Feb 2018 7:33 pm  
 Operator : J.Misiurewicz  
 Sample : R1801334-001  
 Misc : 308593 8270D SOIL  
 ALS Vial : 26 Sample Multiplier: 1

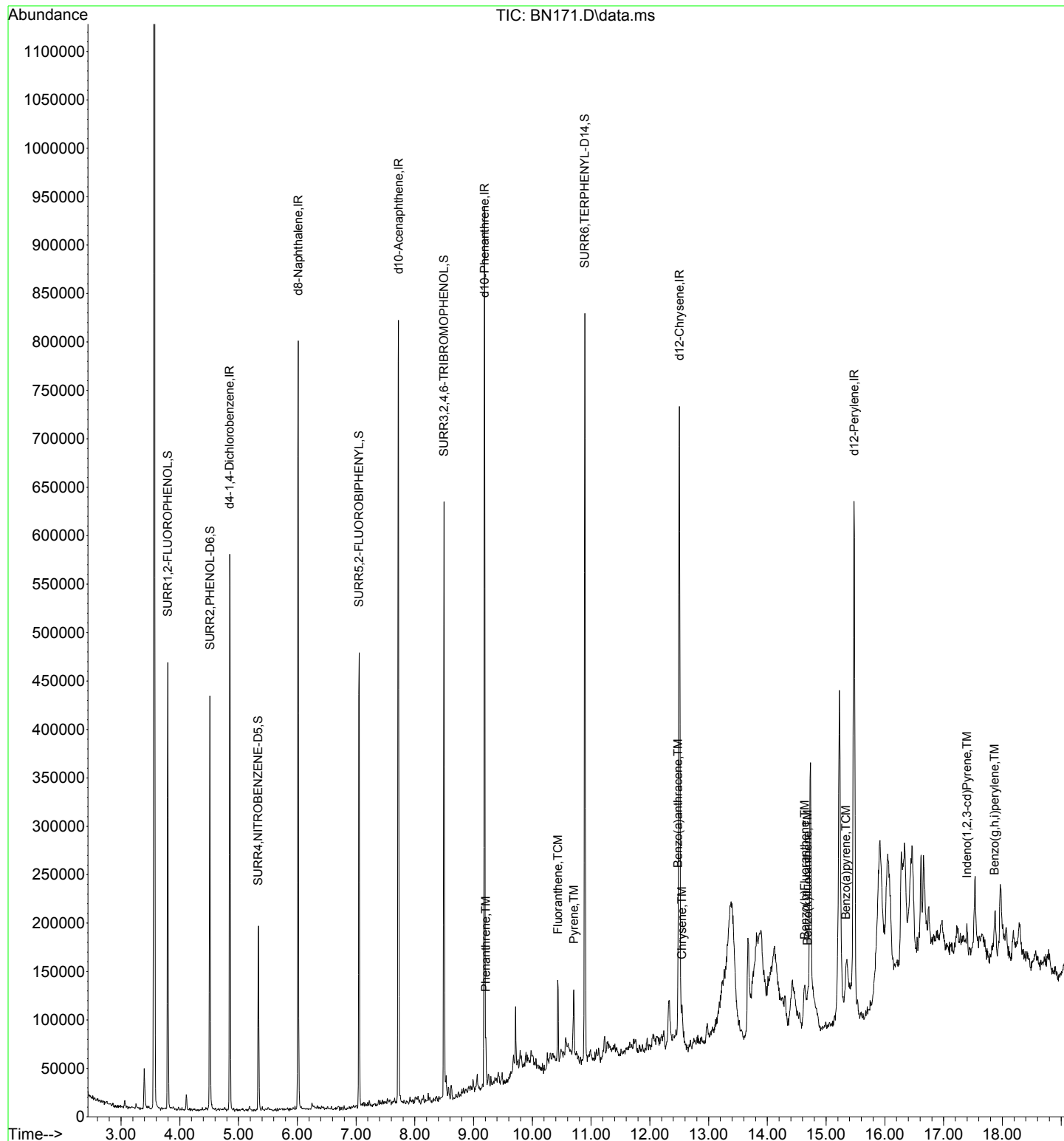
Quant Time: Feb 22 08:37:53 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

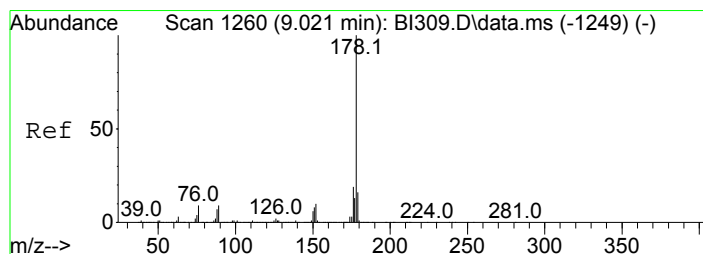
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.849	152	96055	40.00	ppm	0.00
33) d8-Naphthalene	6.015	136	352946	40.00	ppm	0.00
57) d10-Acenaphthene	7.721	164	181584	40.00	ppm	0.00
91) d10-Phenanthrene	9.187	188	325482	40.00	ppm	0.00
117) d12-Chrysene	12.503	240	337841	40.00	ppm	0.00
135) d12-Perylene	15.477	264	360257	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.795	112	140215	47.00	ppm	0.00
Spiked Amount	200.000	Range	16 - 129	Recovery	=	23.50%
12) SURR2,PHENOL-D6	4.512	99	168908	47.99	ppm	0.00
Spiked Amount	200.000	Range	10 - 145	Recovery	=	24.00%
34) SURR4,NITROBENZENE-D5	5.336	82	68611	28.45	ppm	0.00
Spiked Amount	100.000	Range	11 - 91	Recovery	=	28.45%
63) SURR5,2-FLUOROBIPHENYL	7.053	172	153259	24.14	ppm	0.00
Spiked Amount	100.000	Range	14 - 102	Recovery	=	24.14%
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	77927	81.03	ppm	0.00
Spiked Amount	200.000	Range	10 - 109	Recovery	=	40.52%
124) SURR6,TERPHENYL-D14	10.893	244	295363	40.80	ppm	0.00
Spiked Amount	100.000	Range	16 - 120	Recovery	=	40.80%
Target Compounds						
111) Phenanthrene	9.208	178	18697	2.288	ppm	94
116) Fluoranthene	10.433	202	36491	4.161	ppm	99
123) Pyrene	10.706	202	35732	3.680	ppm	95
132) Benzo(a)anthracene	12.482	228	20106	2.177	ppm	87
133) Chrysene	12.546	228	22079	2.511	ppm	90
138) Benzo(b)Fluoranthene	14.637	252	31914	3.072	ppm	96
139) Benzo(k)fluoranthene	14.685	252	10357m	1.035	ppm	
140) Benzo(a)pyrene	15.338	252	20243	2.291	ppm	87
142) Indeno(1,2,3-cd)Pyrene	17.397	276	17590	2.277	ppm	97
144) Benzo(g,h,i)perylene	17.868	276	18125	2.316	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN171.D  
Acq On : 21 Feb 2018 7:33 pm  
Operator : J.Misiurewicz  
Sample : R1801334-001  
Misc : 308593 8270D SOIL  
ALS Vial : 26 Sample Multiplier: 1

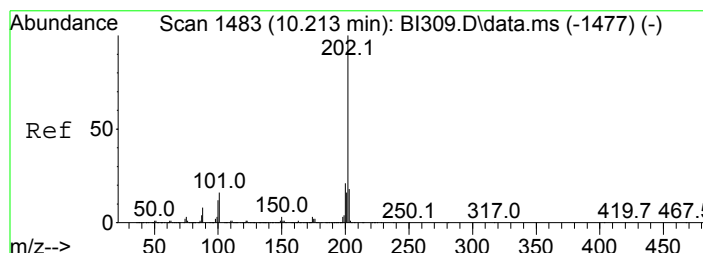
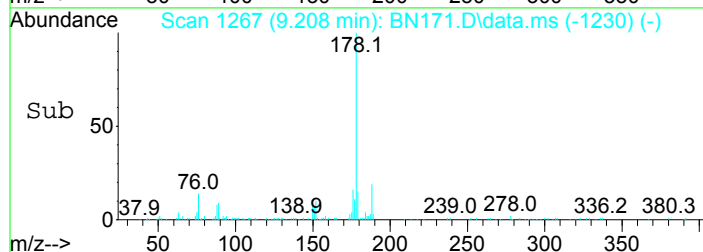
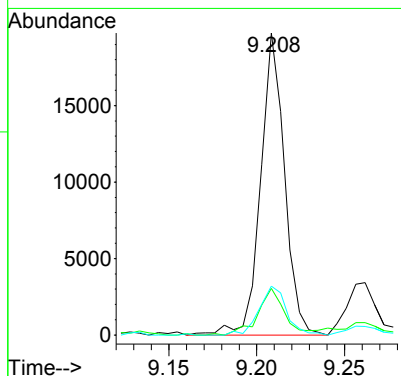
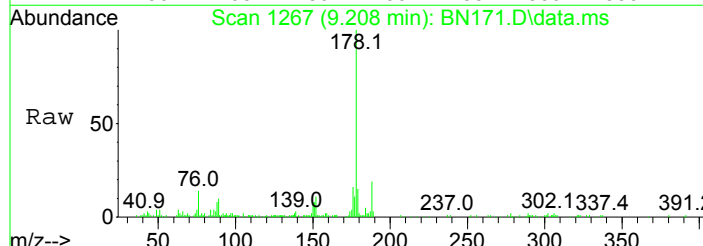
Quant Time: Feb 22 08:37:53 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration





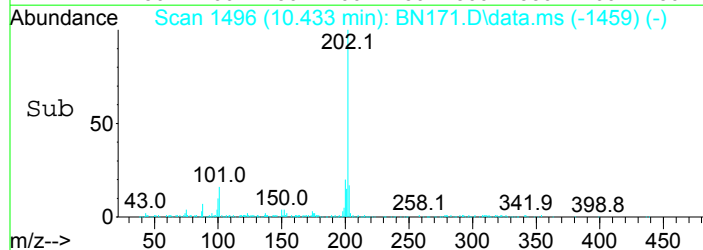
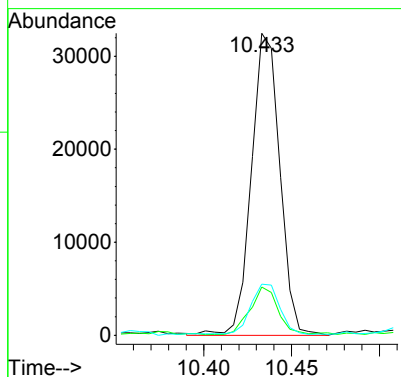
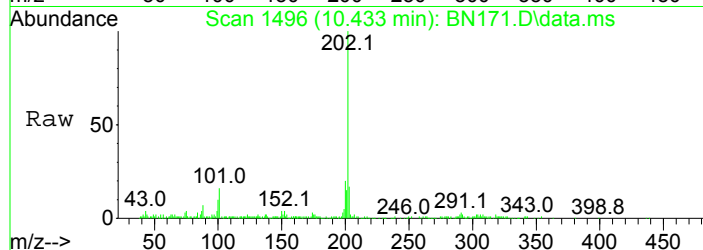
#111  
 Phenanthrene  
 Concen: 2.29 ppm  
 RT: 9.208 min Scan# 1267  
 Delta R.T. -0.002 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

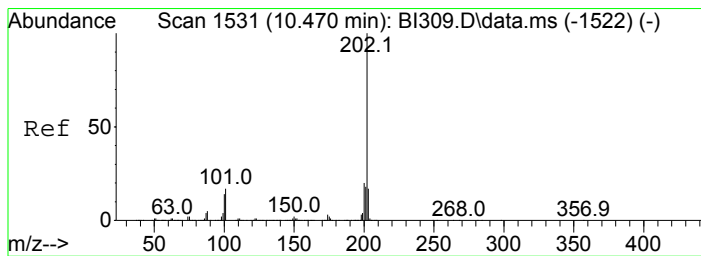
Tgt Ion	Resp	Lower	Upper
178	18697		
179	14.1	0.0	35.9
176	16.0	0.0	39.1



#116  
 Fluoranthene  
 Concen: 4.16 ppm  
 RT: 10.433 min Scan# 1496  
 Delta R.T. -0.004 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

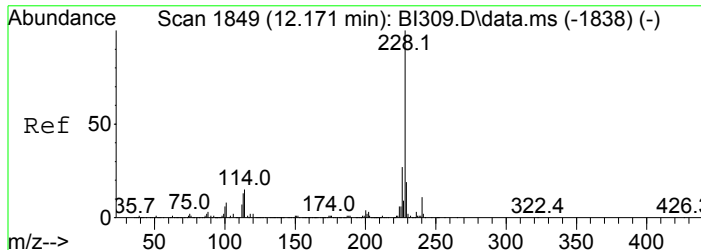
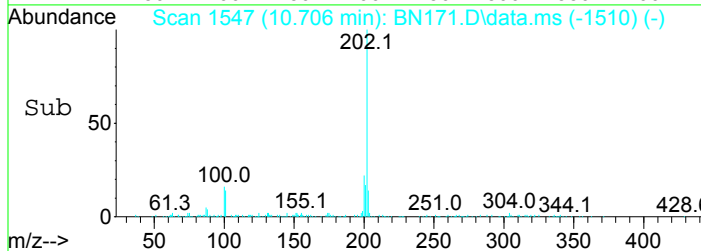
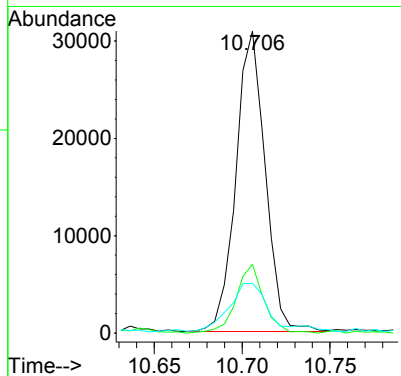
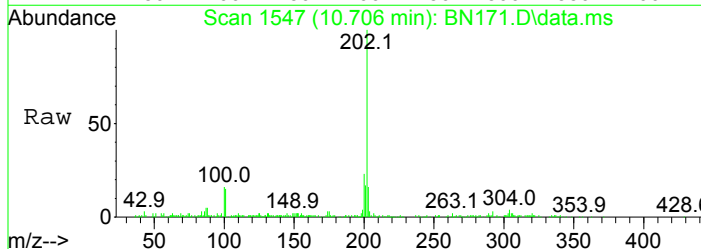
Tgt Ion	Resp	Lower	Upper
202	36491		
101	15.4	0.0	35.5
203	16.6	0.0	37.5





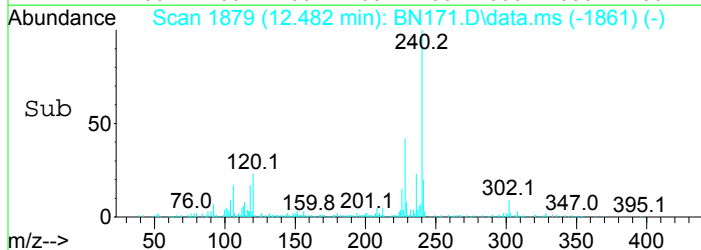
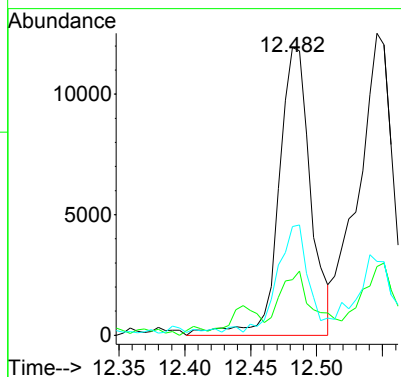
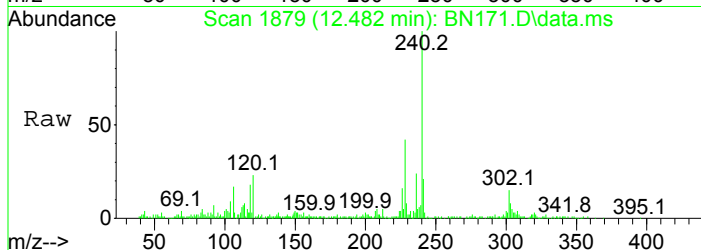
#123  
 Pyrene  
 Concen: 3.68 ppm  
 RT: 10.706 min Scan# 1547  
 Delta R.T. -0.001 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

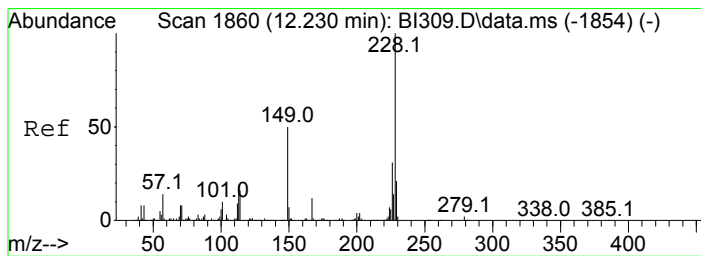
Tgt Ion	Resp	Lower	Upper
202	100		
200	22.5	0.0	40.0
203	15.6	0.0	37.4



#132  
 Benzo(a)anthracene  
 Concen: 2.18 ppm  
 RT: 12.482 min Scan# 1879  
 Delta R.T. -0.005 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

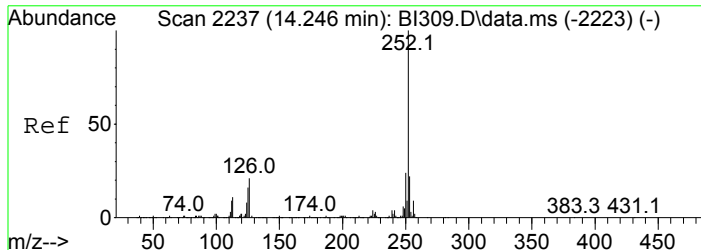
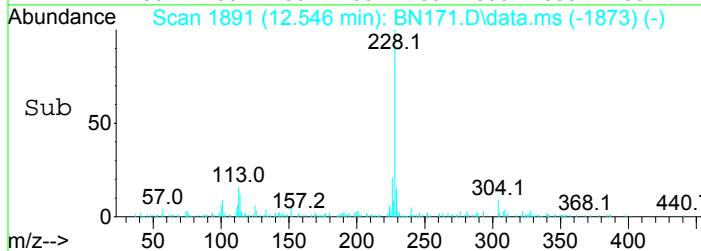
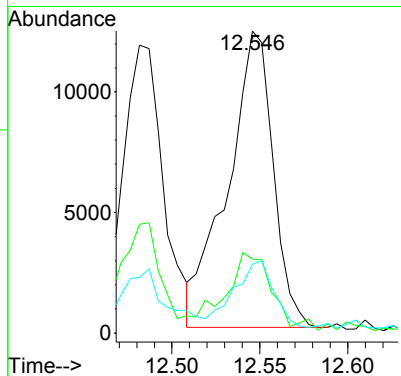
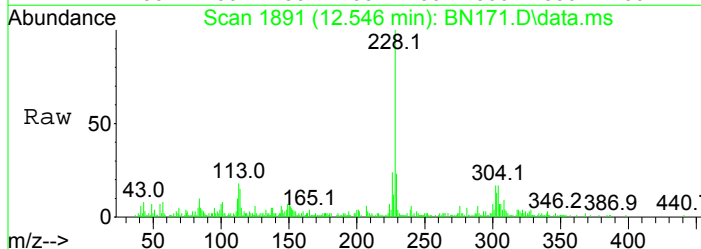
Tgt Ion	Resp	Lower	Upper
228	100		
229	16.0	0.0	39.7
226	35.5	6.9	46.9





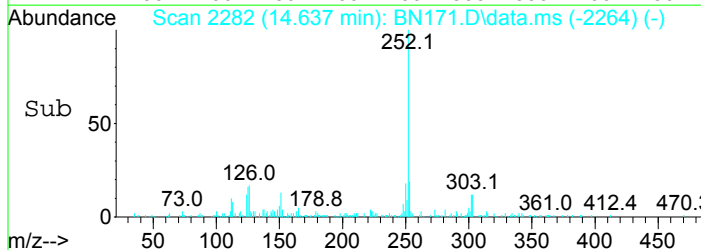
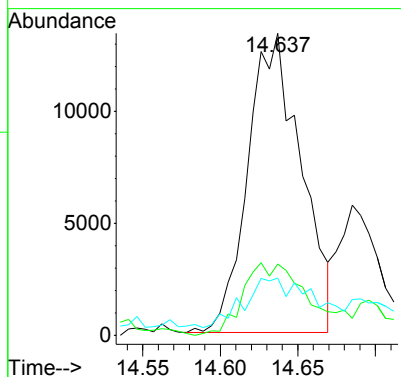
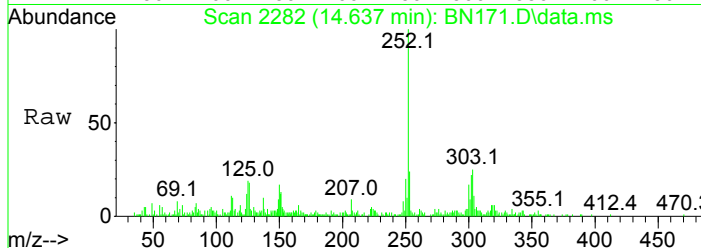
#133  
 Chrysene  
 Concen: 2.51 ppm  
 RT: 12.546 min Scan# 1891  
 Delta R.T. -0.006 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

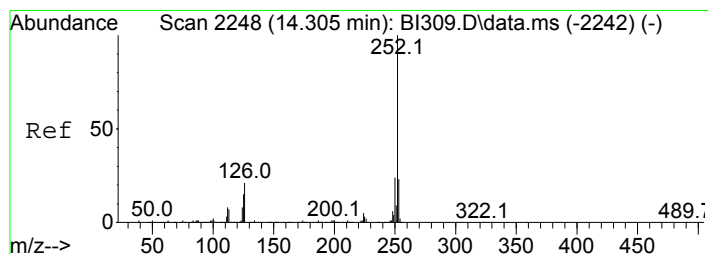
Tgt Ion	Resp	Lower	Upper
228	100		
226	20.1	9.0	49.0
229	19.3	0.0	39.1



#138  
 Benzo(b)Fluoranthene  
 Concen: 3.07 ppm  
 RT: 14.637 min Scan# 2282  
 Delta R.T. -0.003 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

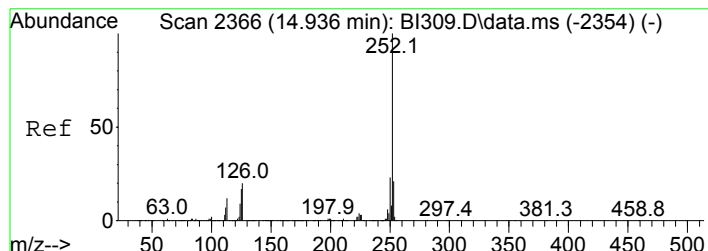
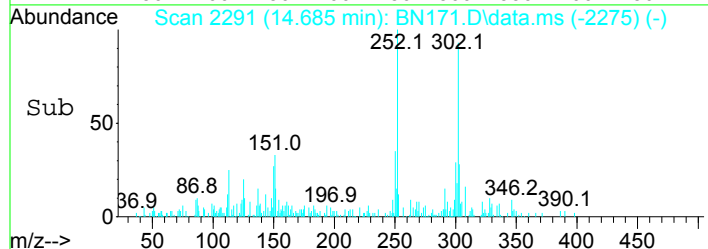
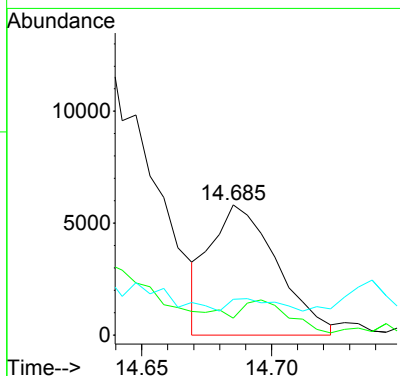
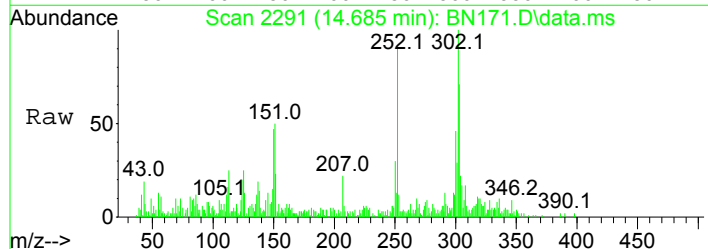
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.2	3.9	43.9
125	13.7	0.0	35.3





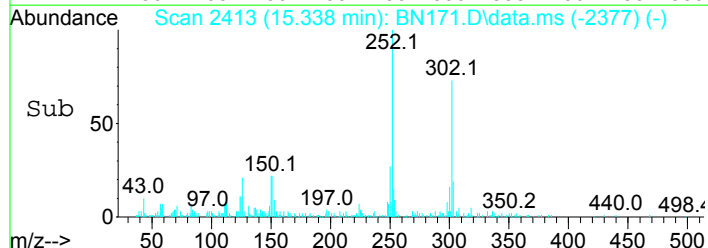
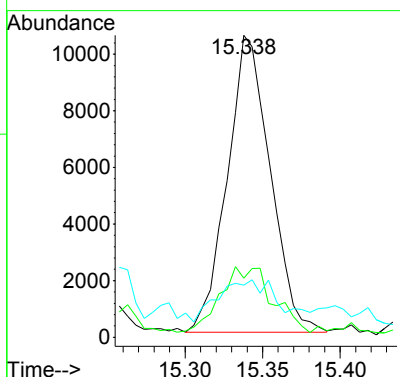
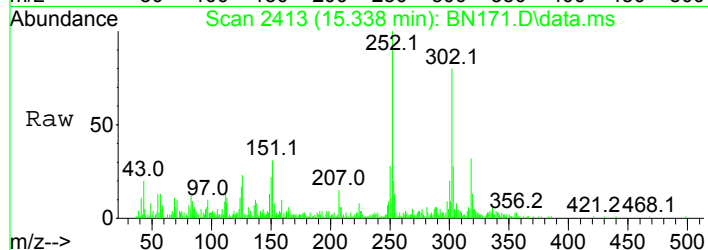
#139  
 Benzo(k)fluoranthene  
 Concen: 1.04 ppm  
 RT: 14.685 min Scan# 2291  
 Delta R.T. -0.013 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

Tgt Ion	Resp	Lower	Upper
252	10357		
253	12.9	1.8	41.8
125	27.5	0.0	33.8

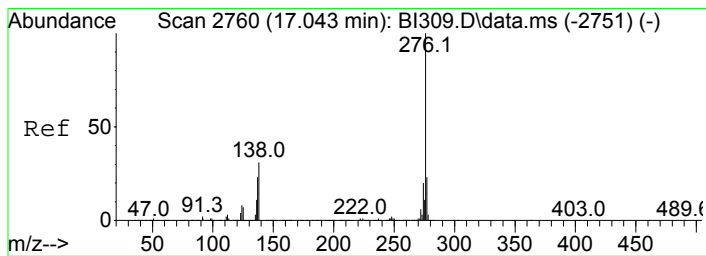


#140  
 Benzo(a)pyrene  
 Concen: 2.29 ppm  
 RT: 15.338 min Scan# 2413  
 Delta R.T. -0.005 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

Tgt Ion	Resp	Lower	Upper
252	20243		
253	17.8	1.6	41.6
125	7.4	0.0	35.7

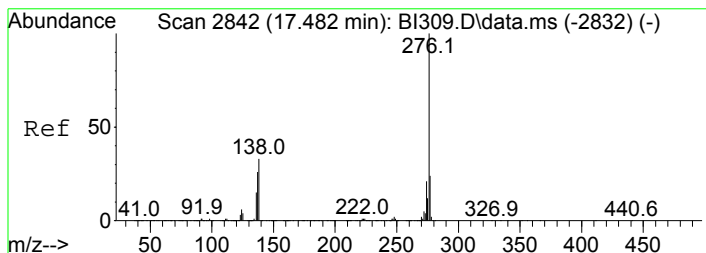
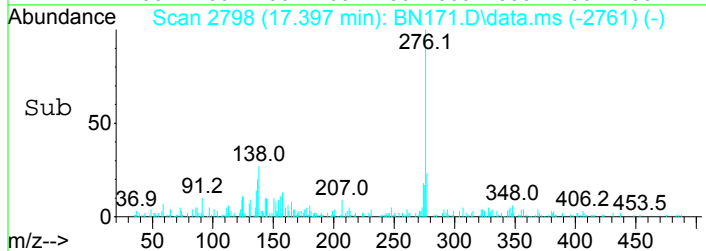
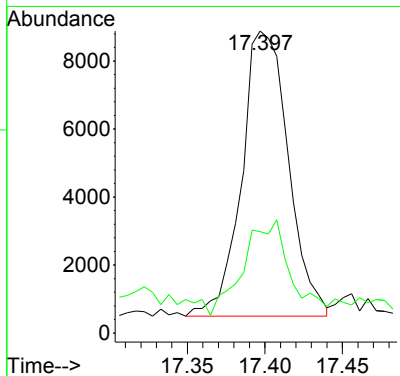
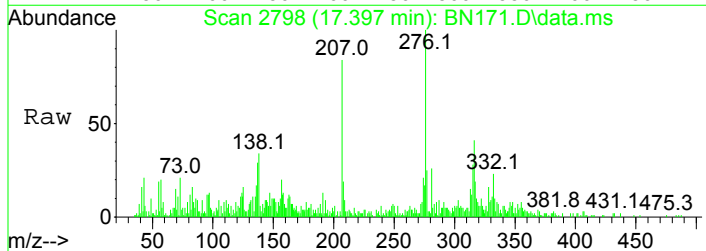






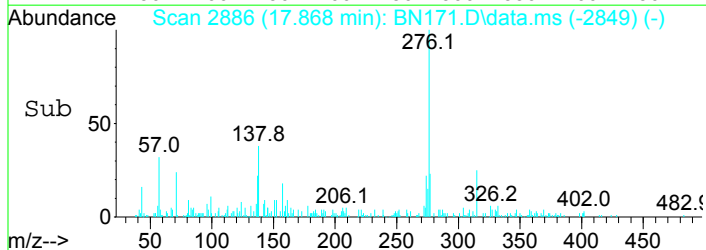
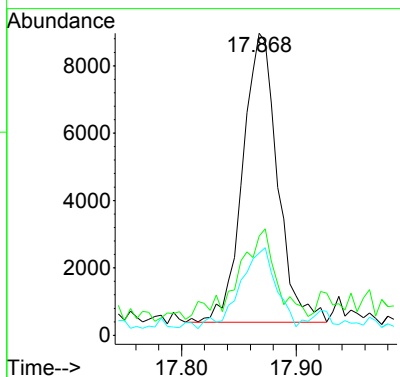
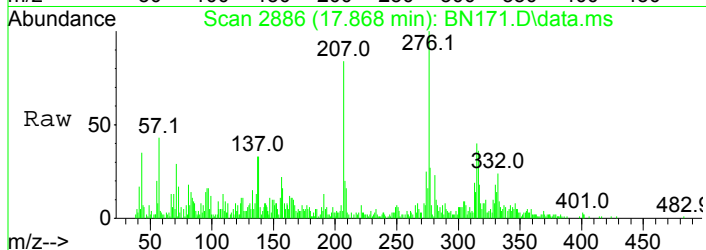
#142  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 2.28 ppm  
 RT: 17.397 min Scan# 2798  
 Delta R.T. -0.004 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	25.4	7.0	47.0



#144  
 Benzo(g,h,i)perylene  
 Concen: 2.32 ppm  
 RT: 17.868 min Scan# 2886  
 Delta R.T. -0.001 min  
 Lab File: BN171.D  
 Acq: 21 Feb 2018 7:33 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	24.2	8.6	48.6
277	22.0	2.2	42.2



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN188.D  
 Acq On : 22 Feb 2018 11:38 am  
 Operator : J.Misiurewicz  
 Sample : R1801334-002  
 Misc : 308593 8270D SOIL  
 ALS Vial : 9 Sample Multiplier: 1

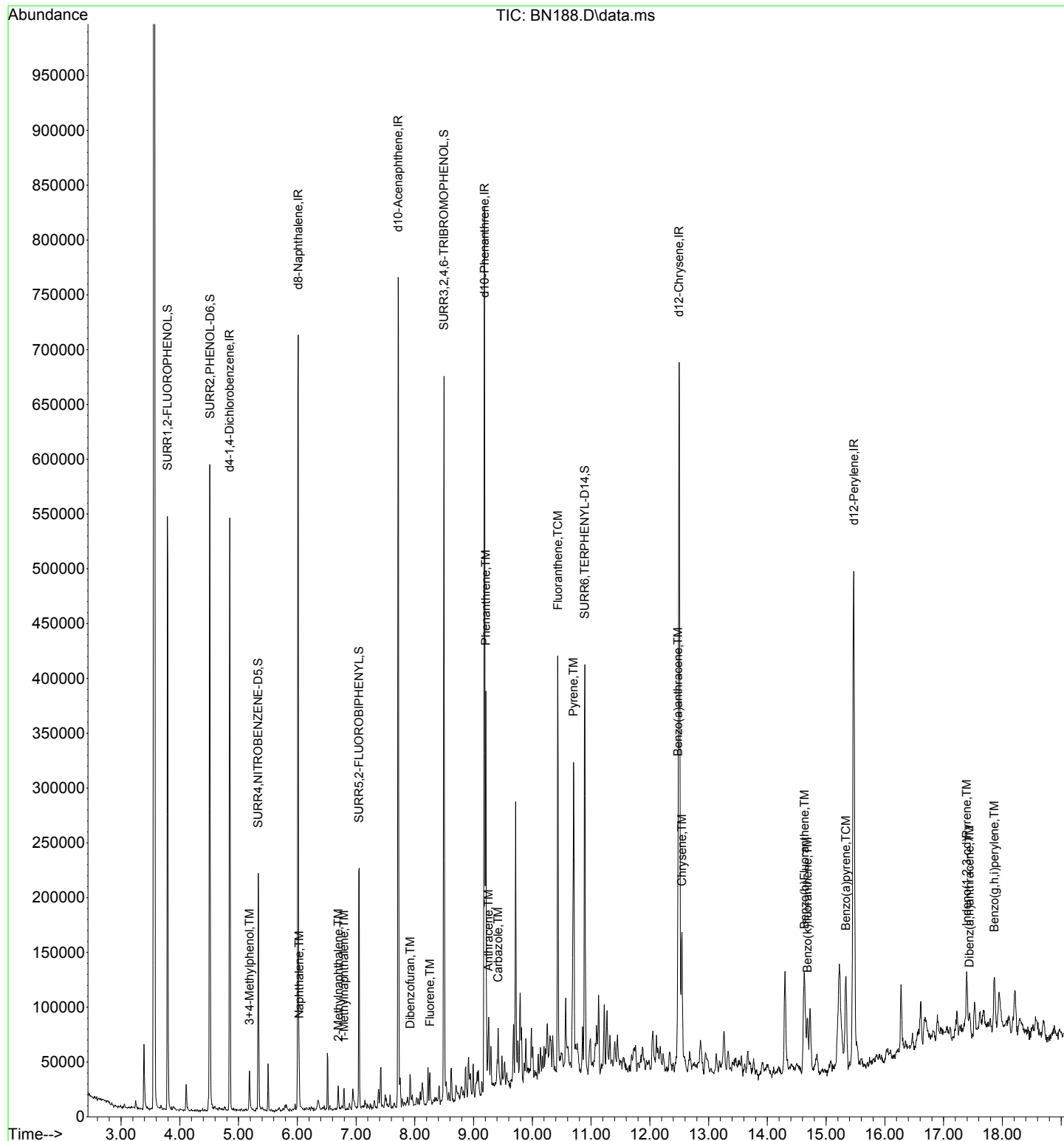
Quant Time: Feb 22 13:11:30 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

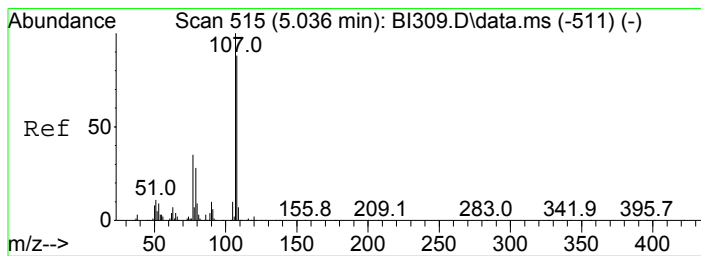
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.849	152	86401	40.00	ppm	0.00
24) d8-Naphthalene	6.015	136	326121	40.00	ppm	0.00
42) d10-Acenaphthene	7.716	164	166590	40.00	ppm	0.00
69) d10-Phenanthrene	9.187	188	310660	40.00	ppm	0.00
82) d12-Chrysene	12.498	240	310701	40.00	ppm	0.00
91) d12-Perylene	15.472	264	313238	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.790	112	172410	64.25	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	32.13%		
8) SURR2,PHENOL-D6	4.512	99	244830	77.33	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	38.66%		
25) SURR4,NITROBENZENE-D5	5.336	82	74902	33.61	ppm	0.00
Spiked Amount 100.000	Range 11	- 91	Recovery =	33.61%		
48) SURR5,2-FLUOROBIPHENYL	7.053	172	73760	12.66	ppm	0.00
Spiked Amount 100.000	Range 14	- 102	Recovery =	12.66%#		
67) SURR3,2,4,6-TRIBROMOPH...	8.497	330	85090	96.44	ppm	0.00
Spiked Amount 200.000	Range 10	- 109	Recovery =	48.22%		
85) SURR6,TERPHENYL-D14	10.893	244	142254	21.37	ppm	0.00
Spiked Amount 100.000	Range 16	- 120	Recovery =	21.37%		
<b>Target Compounds</b>						
19) 3+4-Methylphenol	5.186	108	8369	3.369	ppm	80
34) Naphthalene	6.031	128	13150	1.686	ppm	98
40) 2-Methylnaphthalene	6.700	142	5468	1.093	ppm	97
41) 1-Methylnaphthalene	6.796	142	5664	1.198	ppm	87
58) Dibenzofuran	7.919	168	8313	1.208	ppm	83
63) Fluorene	8.256	166	6079	1.099	ppm	96
77) Phenanthrene	9.208	178	133390	17.101	ppm	98
78) Anthracene	9.256	178	25100	3.254	ppm	97
79) Carbazole	9.417	167	22405	2.843	ppm	97
81) Fluoranthene	10.433	202	157946	18.872	ppm	98
84) Pyrene	10.701	202	138660	15.528	ppm	96
88) Benzo(a)anthracene	12.482	228	74707	8.796	ppm	99
89) Chrysene	12.546	228	76728	9.490	ppm	98
93) Benzo(b)Fluoranthene	14.632	252	84421	9.346	ppm	94
94) Benzo(k)fluoranthene	14.685	252	32309	3.715	ppm	93
95) Benzo(a)pyrene	15.338	252	59333	7.722	ppm	95
96) Indeno(1,2,3-cd)Pyrene	17.392	276	38074	5.668	ppm	92
97) Dibenz(a,h)anthracene	17.440	278	10584	1.375	ppm	87
98) Benzo(g,h,i)perylene	17.862	276	35921	5.280	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN188.D  
Acq On : 22 Feb 2018 11:38 am  
Operator : J.Misiurewicz  
Sample : R1801334-002  
Misc : 308593 8270D SOIL  
ALS Vial : 9 Sample Multiplier: 1

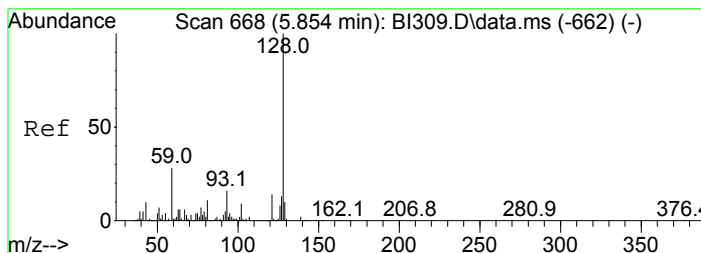
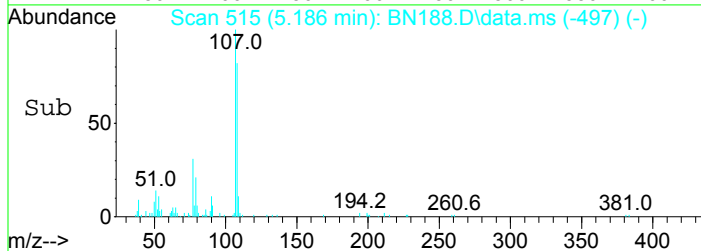
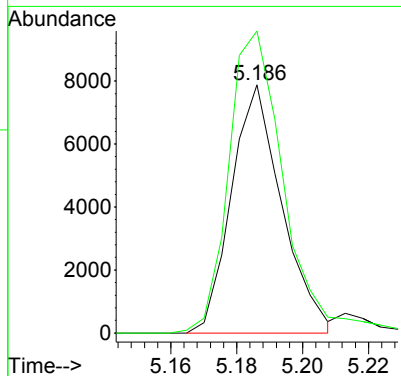
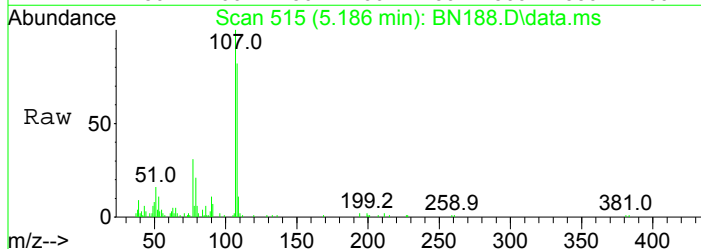
Quant Time: Feb 22 13:11:30 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration





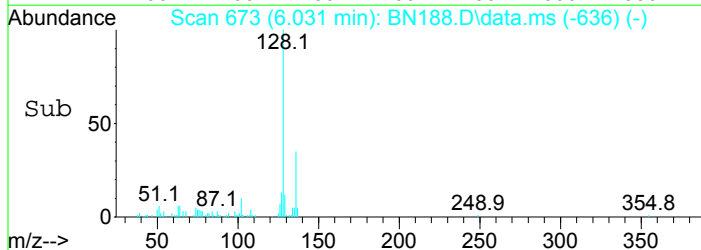
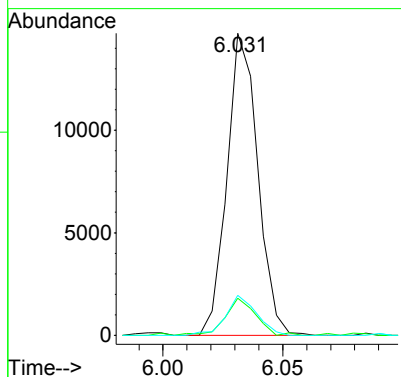
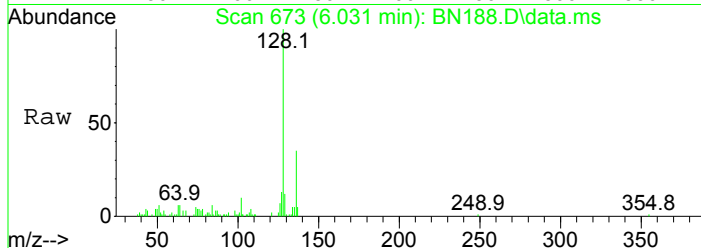
#19  
 3+4-Methylphenol  
 Concen: 3.37 ppm  
 RT: 5.186 min Scan# 515  
 Delta R.T. -0.004 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

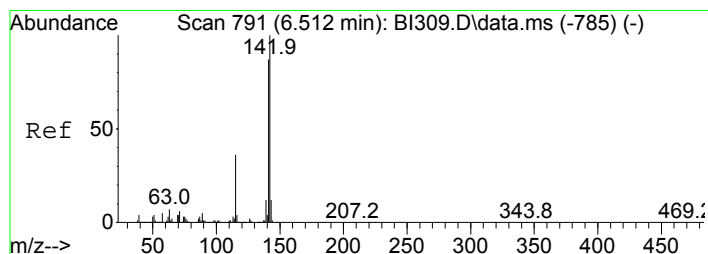
Tgt Ion	Resp	Lower	Upper
108	8369		
107	120.7	80.2	120.2#



#34  
 Naphthalene  
 Concen: 1.69 ppm  
 RT: 6.031 min Scan# 673  
 Delta R.T. -0.003 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

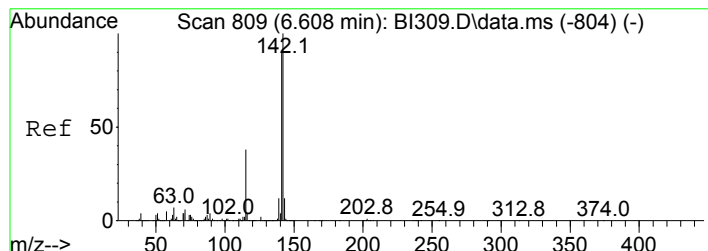
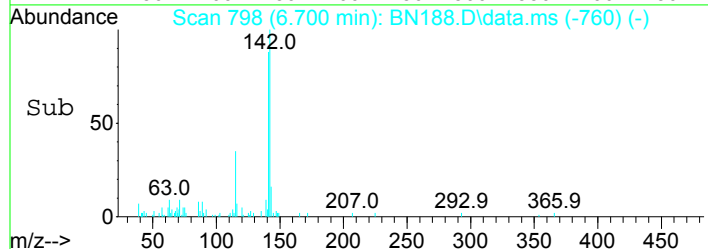
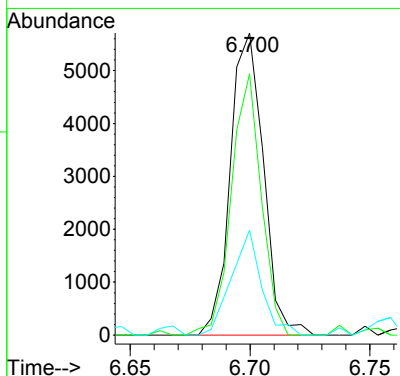
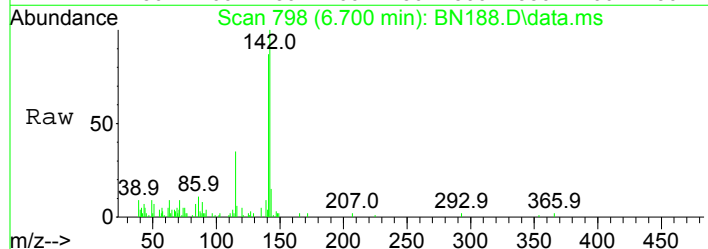
Tgt Ion	Resp	Lower	Upper
128	13150		
129	11.7	0.0	30.7
127	13.2	0.0	32.8





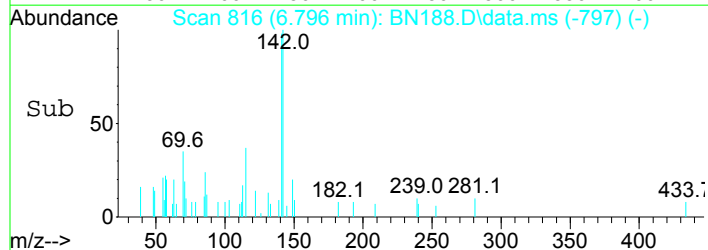
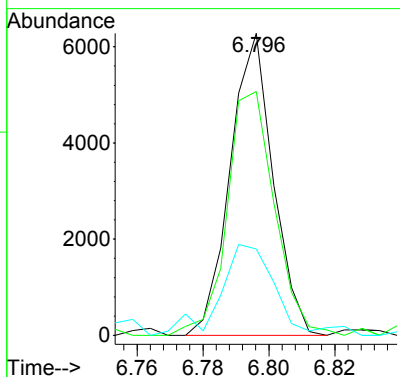
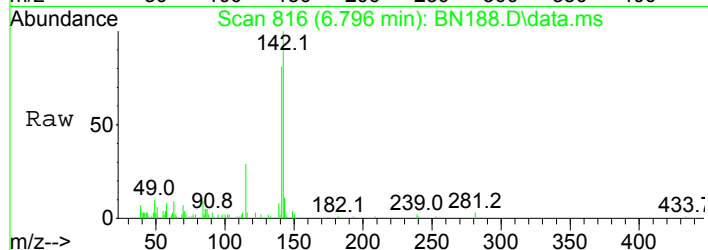
#40  
 2-Methylnaphthalene  
 Concen: 1.09 ppm  
 RT: 6.700 min Scan# 798  
 Delta R.T. 0.001 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

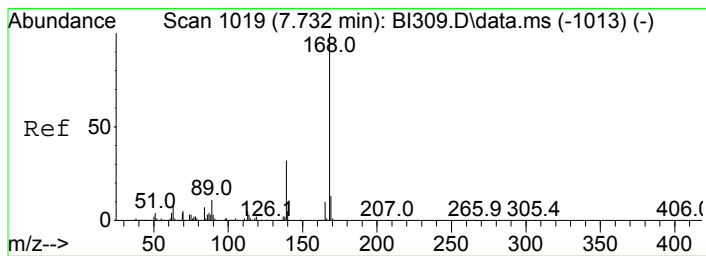
Tgt Ion	Resp	Lower	Upper
142	5468		
141	86.5	63.3	103.3
115	34.7	14.6	54.6



#41  
 1-Methylnaphthalene  
 Concen: 1.20 ppm  
 RT: 6.796 min Scan# 816  
 Delta R.T. 0.000 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

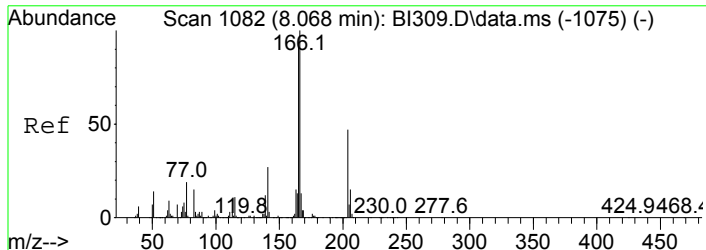
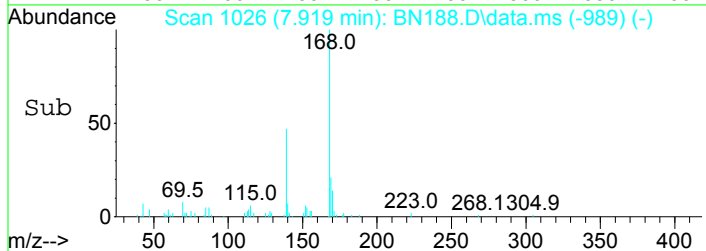
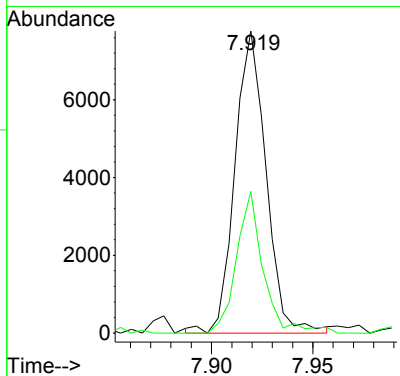
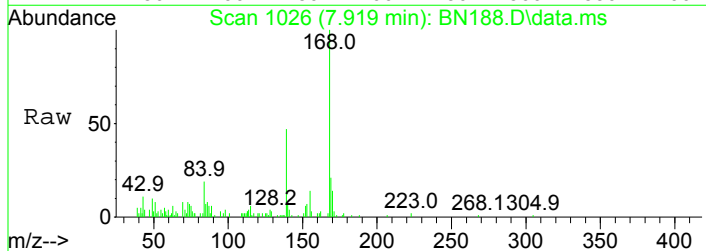
Tgt Ion	Resp	Lower	Upper
142	5664		
141	78.4	58.2	118.2
115	23.8	4.7	64.7





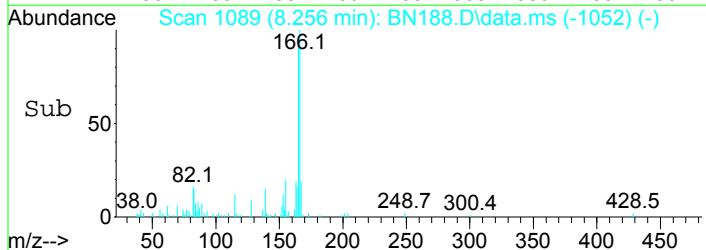
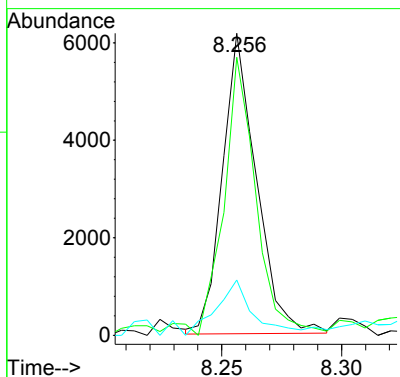
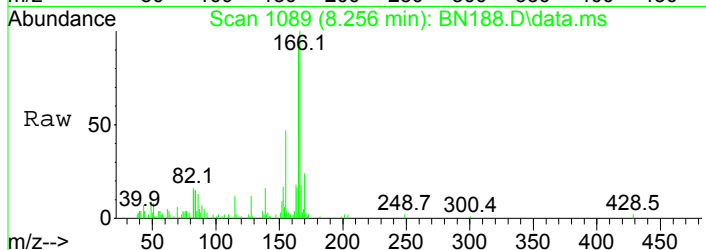
#58  
 Dibenzofuran  
 Concen: 1.21 ppm  
 RT: 7.919 min Scan# 1026  
 Delta R.T. -0.002 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

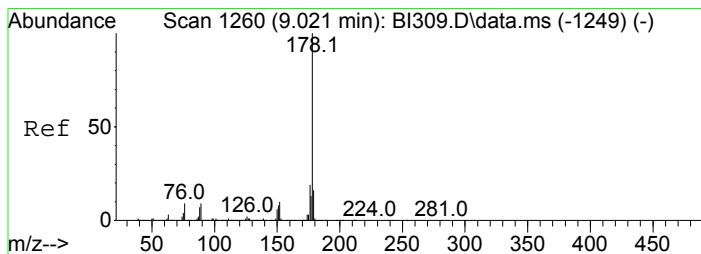
Tgt Ion	Resp	Lower	Upper
168	100		
139	46.8	16.5	56.5



#63  
 Fluorene  
 Concen: 1.10 ppm  
 RT: 8.256 min Scan# 1089  
 Delta R.T. -0.002 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

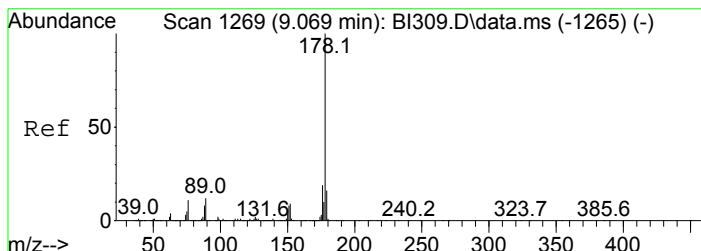
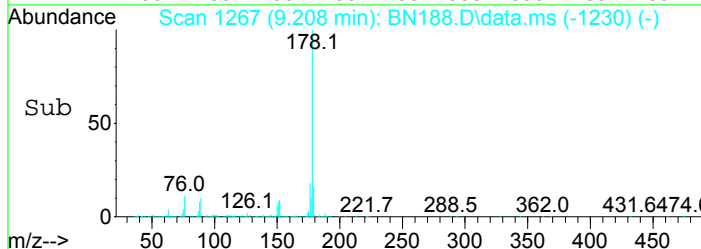
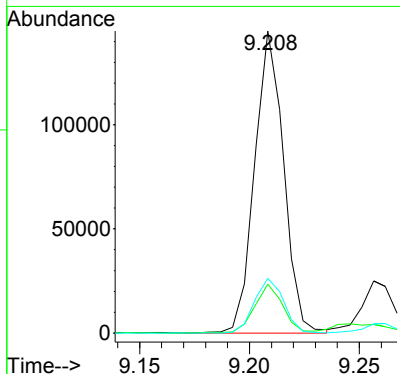
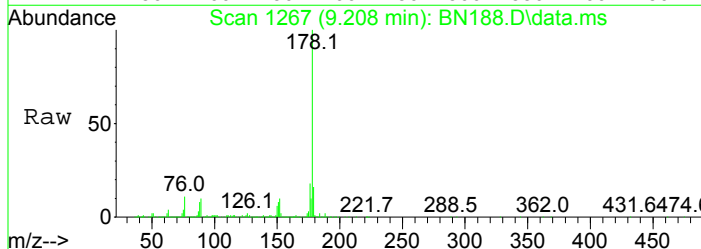
Tgt Ion	Resp	Lower	Upper
166	100		
165	91.1	64.0	124.0
167	17.6	0.0	44.2





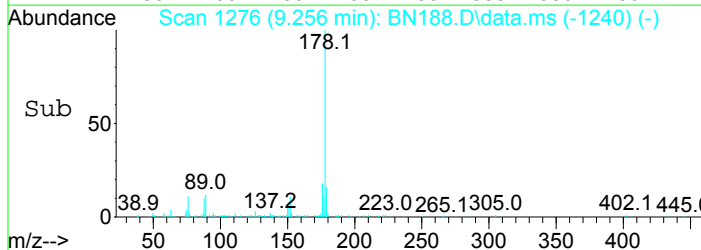
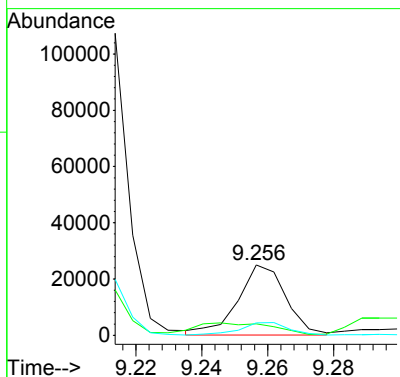
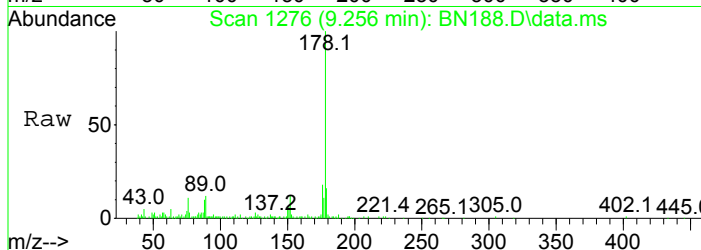
#77  
 Phenanthrene  
 Concen: 17.10 ppm  
 RT: 9.208 min Scan# 1267  
 Delta R.T. -0.002 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

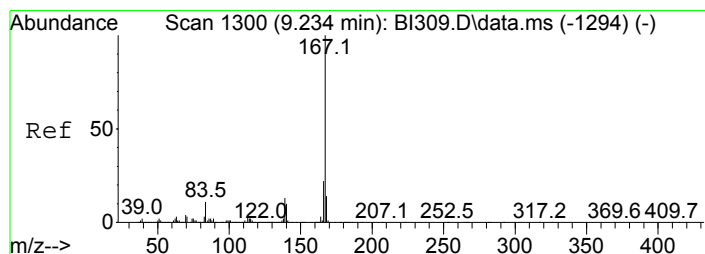
Tgt Ion	Resp	Lower	Upper
178	133390		
179	15.6	0.0	35.9
176	18.1	0.0	39.1



#78  
 Anthracene  
 Concen: 3.25 ppm  
 RT: 9.256 min Scan# 1276  
 Delta R.T. -0.005 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

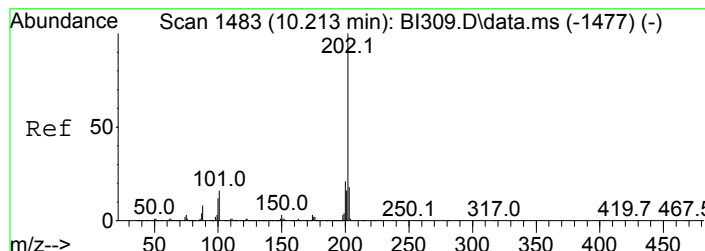
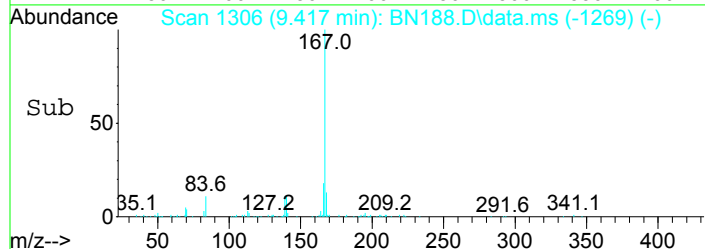
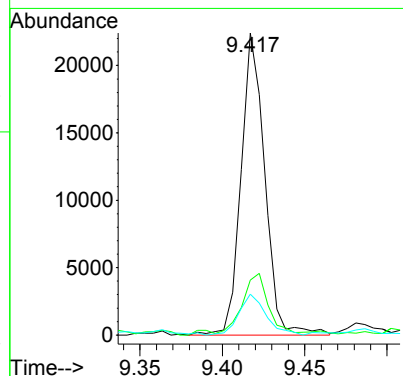
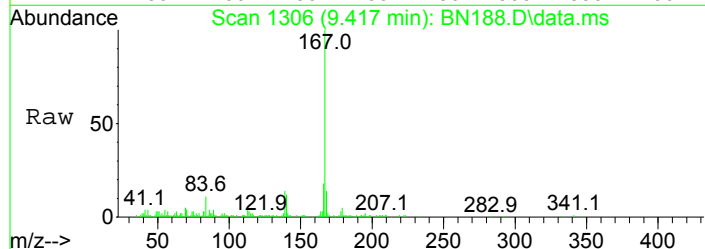
Tgt Ion	Resp	Lower	Upper
178	25100		
179	12.7	0.0	35.7
176	18.1	0.0	38.0





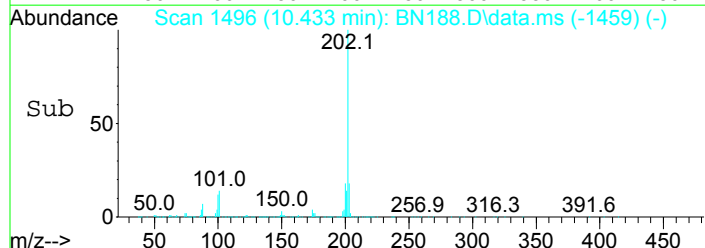
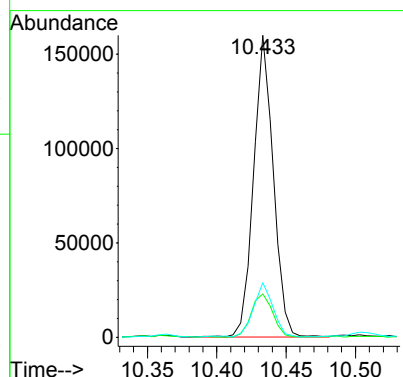
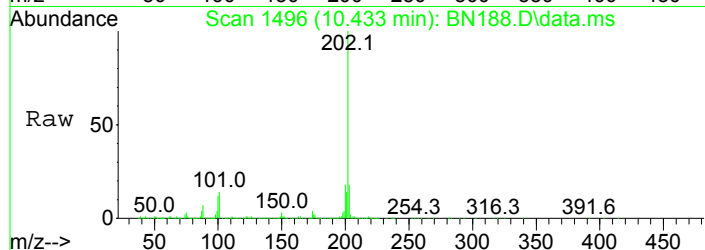
#79  
 Carbazole  
 Concen: 2.84 ppm  
 RT: 9.417 min Scan# 1306  
 Delta R.T. -0.004 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

Tgt Ion	Resp	Lower	Upper
167	100		
166	17.9	0.0	40.0
139	13.0	0.0	33.6

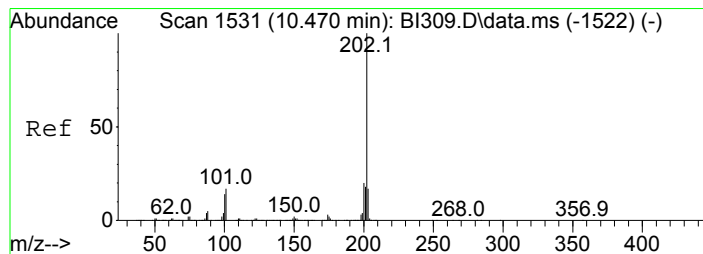


#81  
 Fluoranthene  
 Concen: 18.87 ppm  
 RT: 10.433 min Scan# 1496  
 Delta R.T. -0.003 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

Tgt Ion	Resp	Lower	Upper
202	100		
101	14.1	0.0	35.5
203	17.8	0.0	37.5

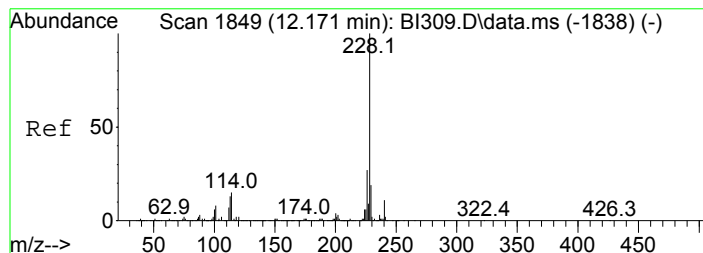
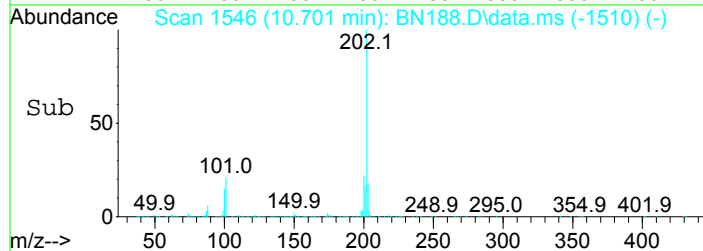
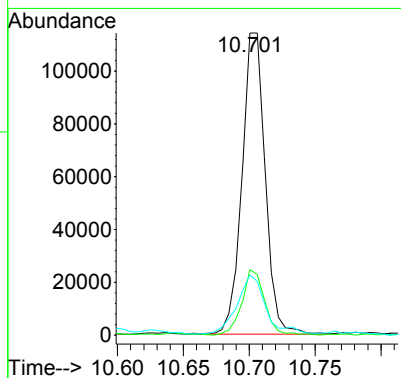
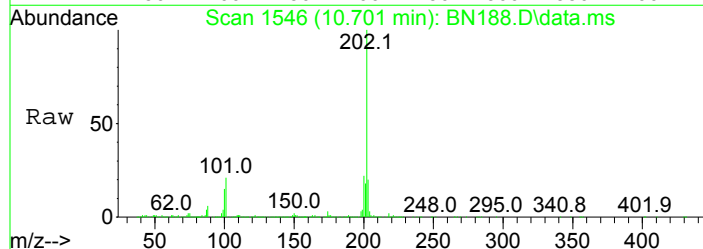






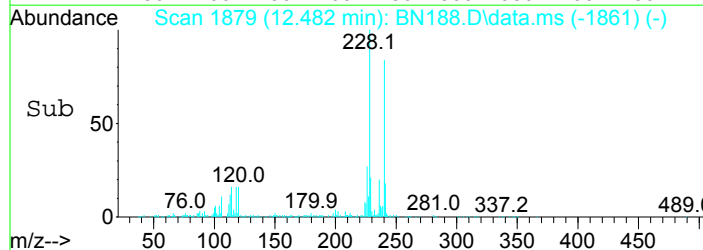
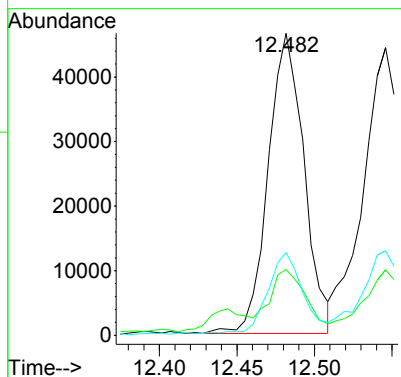
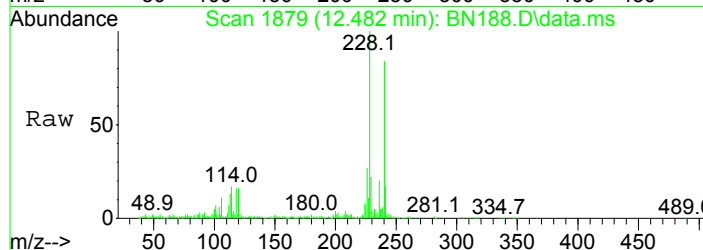
#84  
 Pyrene  
 Concen: 15.53 ppm  
 RT: 10.701 min Scan# 1546  
 Delta R.T. -0.006 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

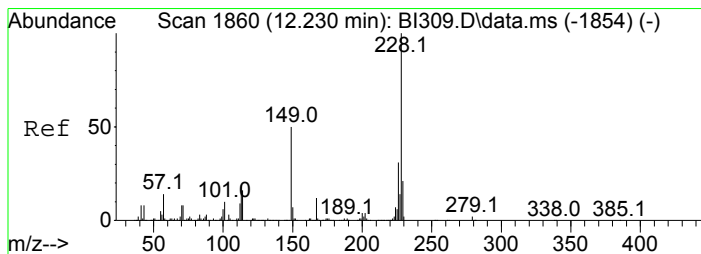
Tgt Ion	Resp	Lower	Upper
202	138660		
200	21.5	0.0	40.0
203	19.4	0.0	37.4



#88  
 Benzo(a)anthracene  
 Concen: 8.80 ppm  
 RT: 12.482 min Scan# 1879  
 Delta R.T. -0.005 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

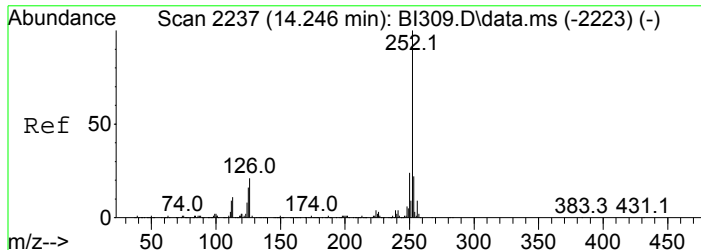
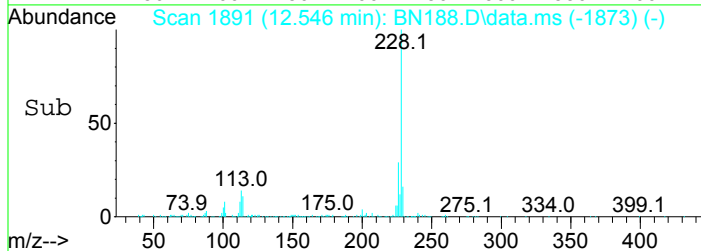
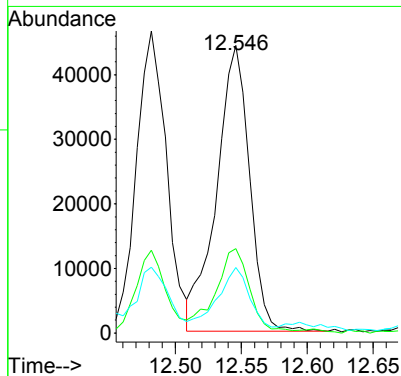
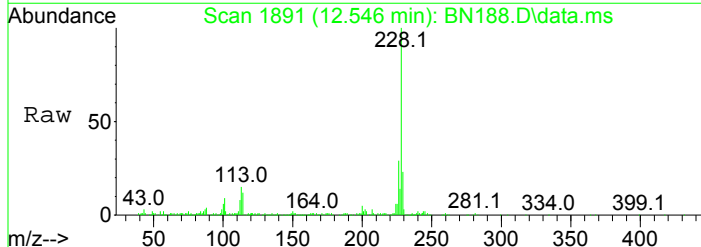
Tgt Ion	Resp	Lower	Upper
228	74707		
229	20.2	0.0	39.7
226	26.4	6.9	46.9





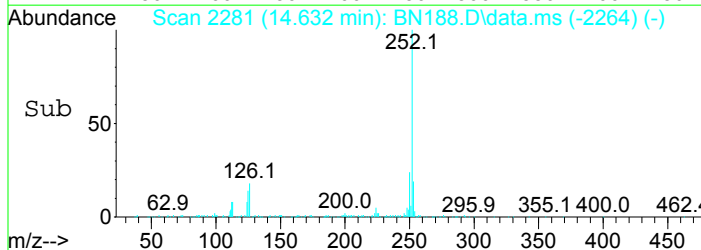
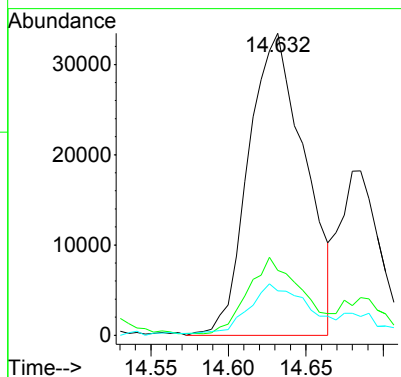
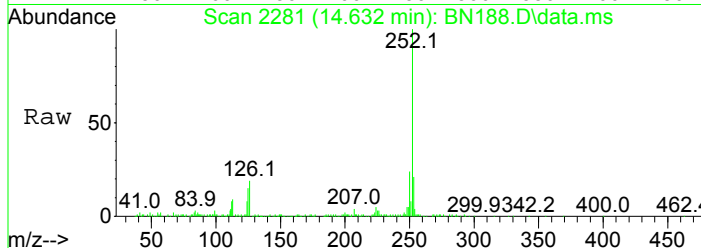
#89  
 Chrysene  
 Concen: 9.49 ppm  
 RT: 12.546 min Scan# 1891  
 Delta R.T. -0.005 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

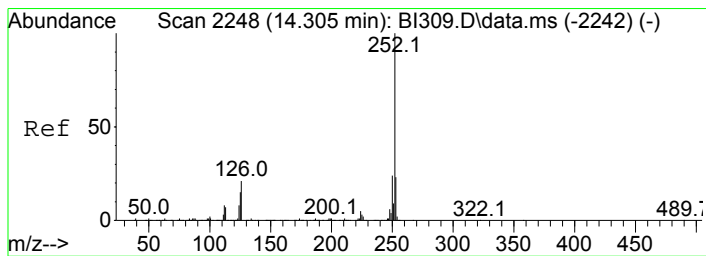
Tgt Ion	Resp	Lower	Upper
228	100		
226	28.5	9.0	49.0
229	21.1	0.0	39.1



#93  
 Benzo(b)Fluoranthene  
 Concen: 9.35 ppm  
 RT: 14.632 min Scan# 2281  
 Delta R.T. -0.008 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

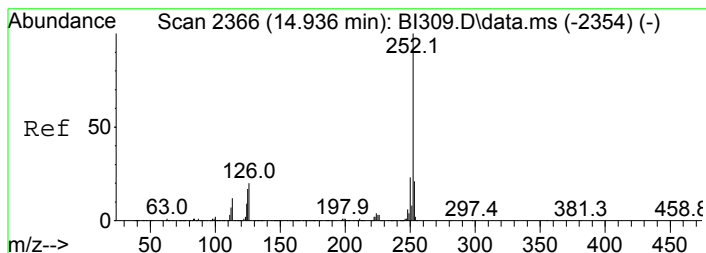
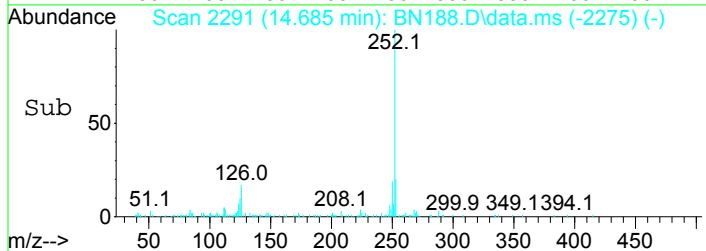
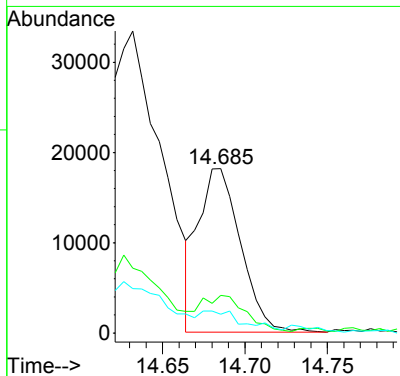
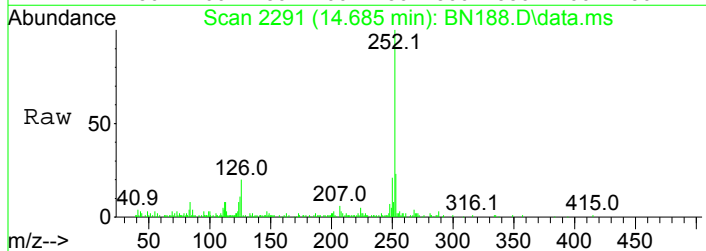
Tgt Ion	Resp	Lower	Upper
252	100		
253	20.8	3.9	43.9
125	13.3	0.0	35.3





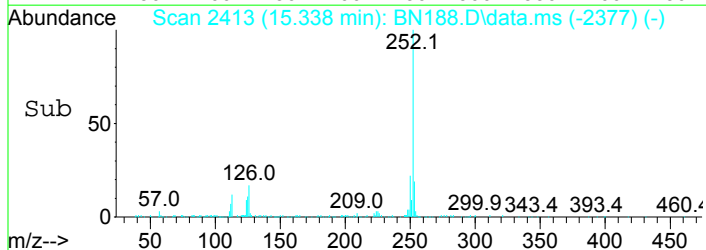
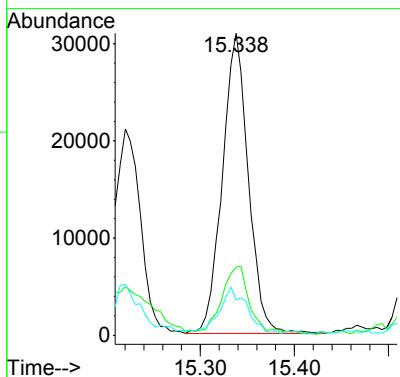
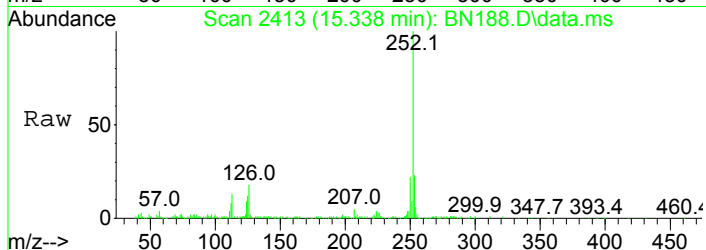
#94  
 Benzo(k)fluoranthene  
 Concen: 3.72 ppm  
 RT: 14.685 min Scan# 2291  
 Delta R.T. -0.013 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

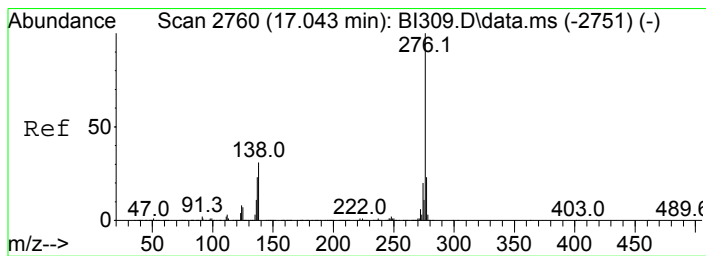
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.8	1.8	41.8
125	6.7	0.0	33.8



#95  
 Benzo(a)pyrene  
 Concen: 7.72 ppm  
 RT: 15.338 min Scan# 2413  
 Delta R.T. -0.005 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

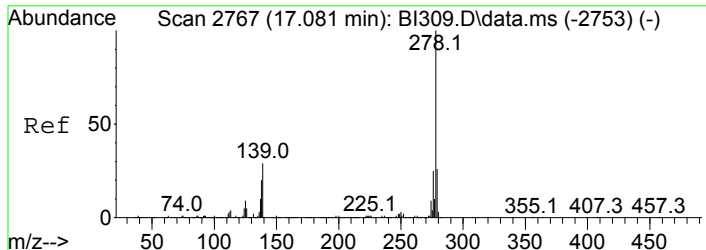
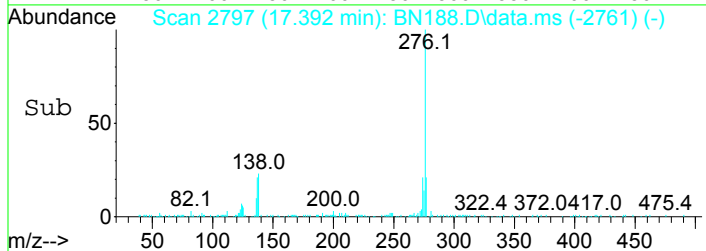
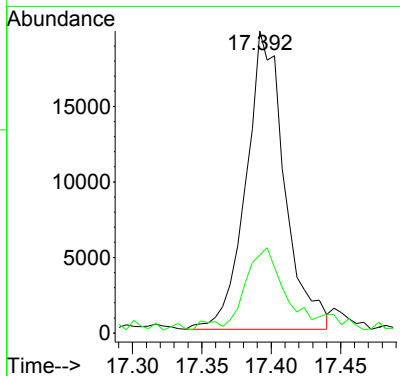
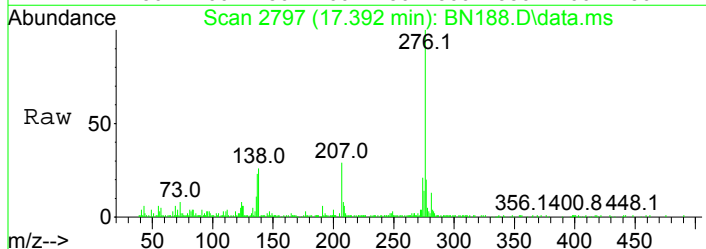
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.7	1.6	41.6
125	10.7	0.0	35.7





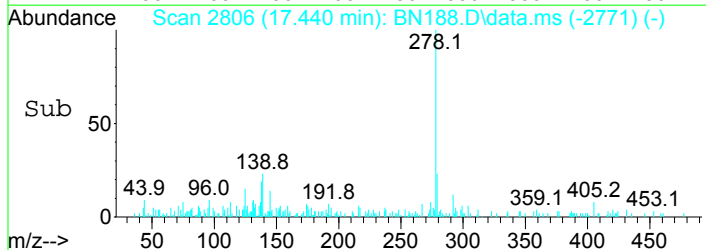
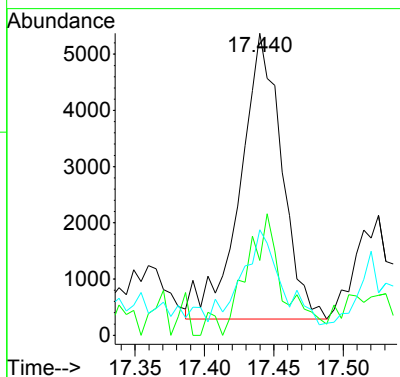
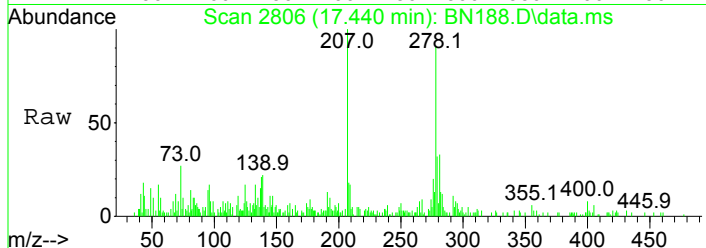
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 5.67 ppm  
 RT: 17.392 min Scan# 2797  
 Delta R.T. -0.010 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

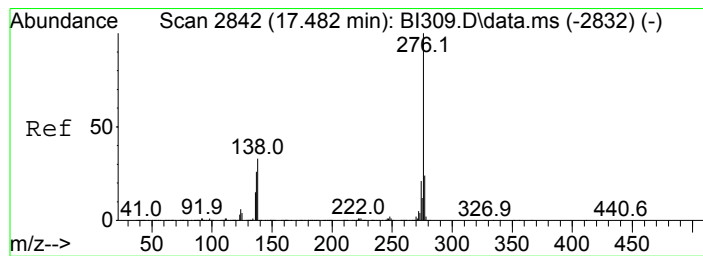
Tgt Ion	Resp	Lower	Upper
276	100		
138	22.9	7.0	47.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 1.37 ppm  
 RT: 17.440 min Scan# 2806  
 Delta R.T. -0.015 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

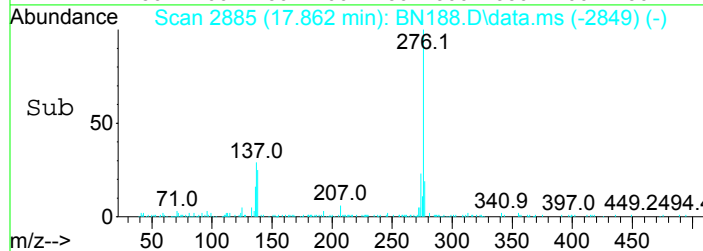
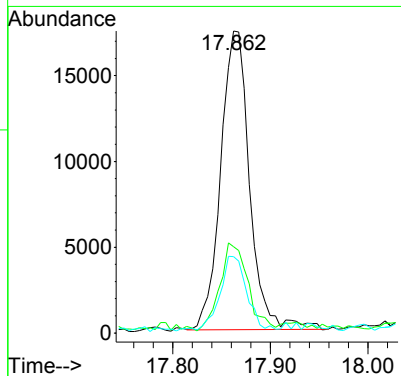
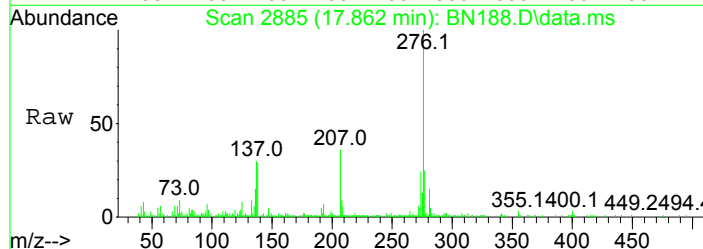
Tgt Ion	Resp	Lower	Upper
278	100		
139	17.1	3.1	43.1
279	32.3	5.1	45.1





#98  
 Benzo(g,h,i)perylene  
 Concen: 5.28 ppm  
 RT: 17.862 min Scan# 2885  
 Delta R.T. -0.006 min  
 Lab File: BN188.D  
 Acq: 22 Feb 2018 11:38 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.8	8.6	48.6
277	24.2	2.2	42.2



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN189.D  
 Acq On : 22 Feb 2018 12:06 pm  
 Operator : J.Misiurewicz  
 Sample : R1801334-003|2.0  
 Misc : 308593 8270D SOIL  
 ALS Vial : 10 Sample Multiplier: 1

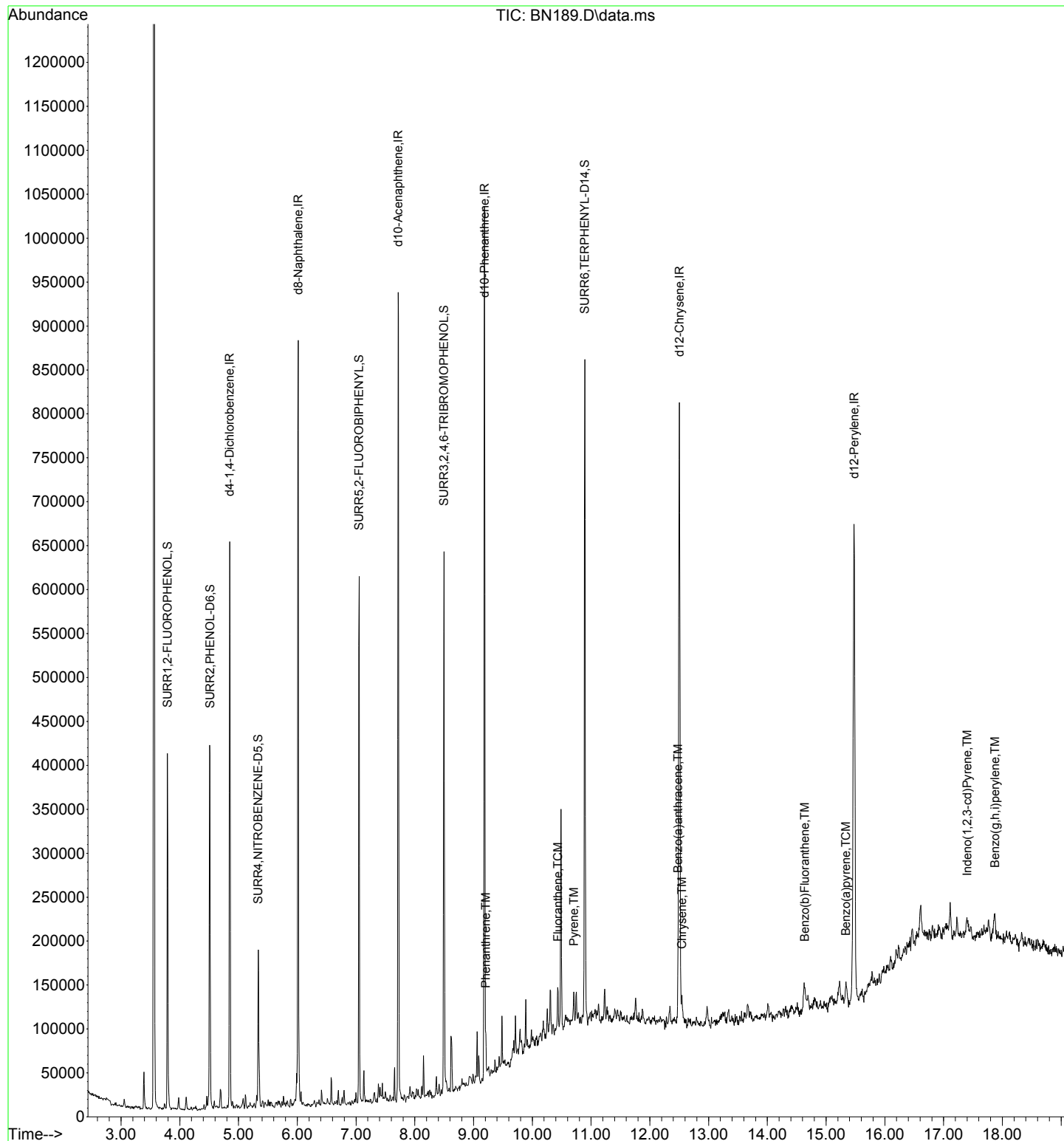
Quant Time: Feb 22 13:11:34 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

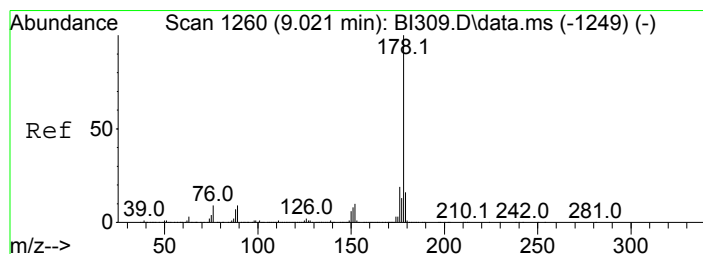
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.849	152	102657	40.00	ppm	0.00
24) d8-Naphthalene	6.015	136	394421	40.00	ppm	0.00
42) d10-Acenaphthene	7.716	164	204166	40.00	ppm	0.00
69) d10-Phenanthrene	9.187	188	374692	40.00	ppm	0.00
82) d12-Chrysene	12.503	240	374785	40.00	ppm	0.00
91) d12-Perylene	15.477	264	384157	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.790	112	119976	37.63	ppm	0.00
Spiked Amount	200.000	Range	16 - 129	Recovery	=	18.82%
8) SURR2,PHENOL-D6	4.512	99	171768	45.66	ppm	0.00
Spiked Amount	200.000	Range	10 - 145	Recovery	=	22.83%
25) SURR4,NITROBENZENE-D5	5.336	82	59929	22.23	ppm	0.00
Spiked Amount	100.000	Range	11 - 91	Recovery	=	22.23%
48) SURR5,2-FLUOROBIPHENYL	7.053	172	188508	26.40	ppm	0.00
Spiked Amount	100.000	Range	14 - 102	Recovery	=	26.40%
67) SURR3,2,4,6-TRIBROMOPH...	8.497	330	82249	76.06	ppm	0.00
Spiked Amount	200.000	Range	10 - 109	Recovery	=	38.03%
85) SURR6,TERPHENYL-D14	10.893	244	292932	36.47	ppm	0.00
Spiked Amount	100.000	Range	16 - 120	Recovery	=	36.47%
<b>Target Compounds</b>						
77) Phenanthrene	9.208	178	16919	1.798	ppm	95
81) Fluoranthene	10.433	202	20895	2.070	ppm	96
84) Pyrene	10.706	202	19265	1.789	ppm	91
88) Benzo(a)anthracene	12.482	228	12069	1.178	ppm	98
89) Chrysene	12.546	228	17376	1.782	ppm	94
93) Benzo(b)Fluoranthene	14.637	252	24838	2.242	ppm	92
95) Benzo(a)pyrene	15.338	252	11223	1.191	ppm	95
96) Indeno(1,2,3-cd)Pyrene	17.402	276	12314	1.495	ppm	88
98) Benzo(g,h,i)perylene	17.873	276	18207	2.182	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN189.D  
Acq On : 22 Feb 2018 12:06 pm  
Operator : J.Misiurewicz  
Sample : R1801334-003|2.0  
Misc : 308593 8270D SOIL  
ALS Vial : 10 Sample Multiplier: 1

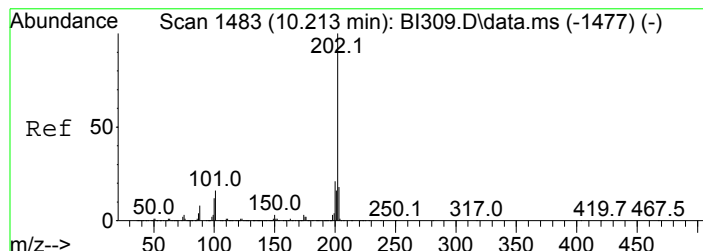
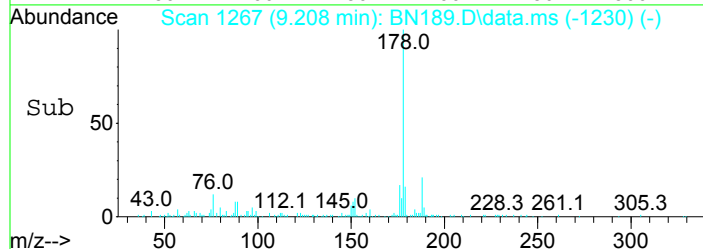
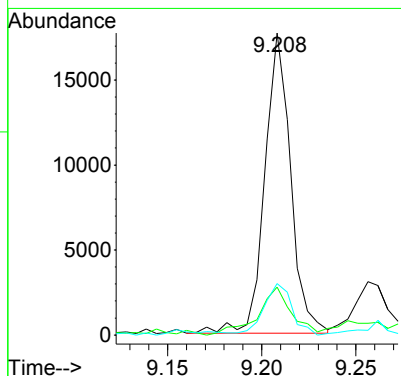
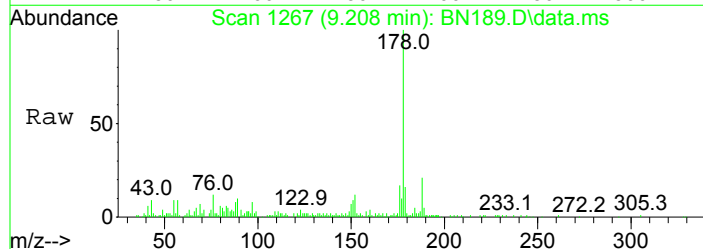
Quant Time: Feb 22 13:11:34 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration





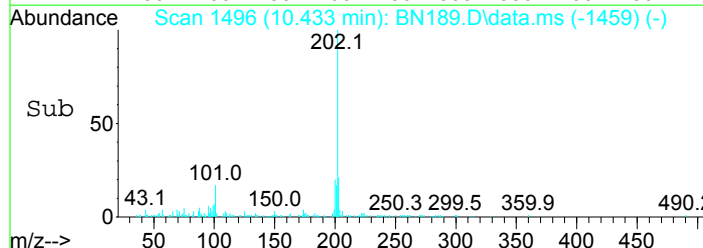
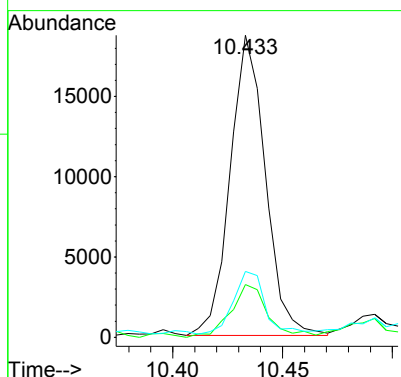
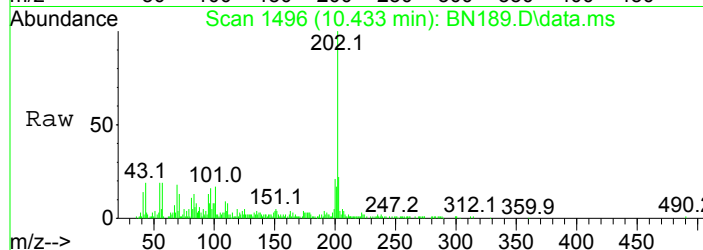
#77  
 Phenanthrene  
 Concen: 1.80 ppm  
 RT: 9.208 min Scan# 1267  
 Delta R.T. -0.002 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

Tgt Ion	Resp	Lower	Upper
178	16919		
179	14.2	0.0	35.9
176	16.5	0.0	39.1

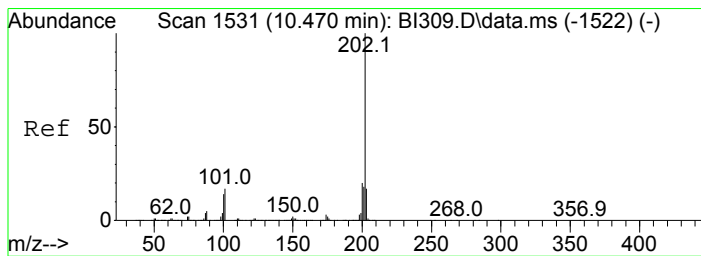


#81  
 Fluoranthene  
 Concen: 2.07 ppm  
 RT: 10.433 min Scan# 1496  
 Delta R.T. -0.003 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

Tgt Ion	Resp	Lower	Upper
202	20895		
101	16.6	0.0	35.5
203	19.8	0.0	37.5

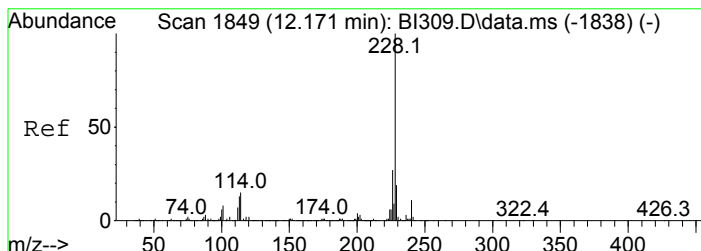
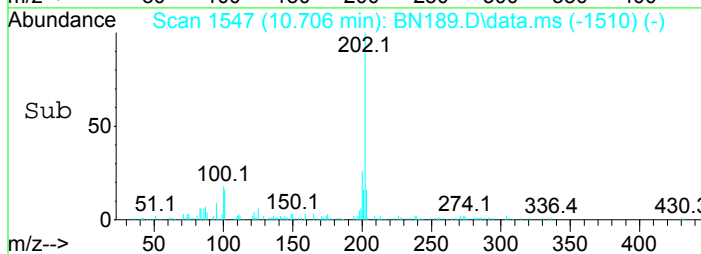
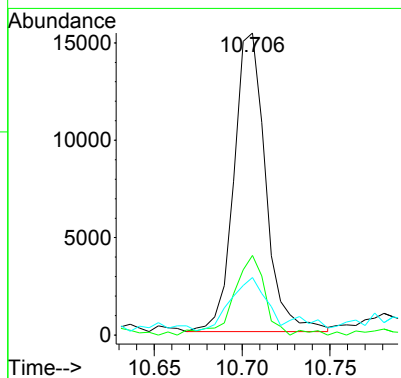
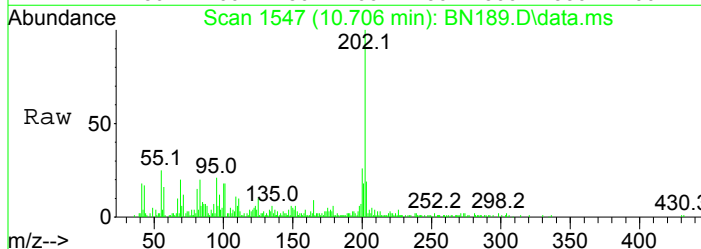






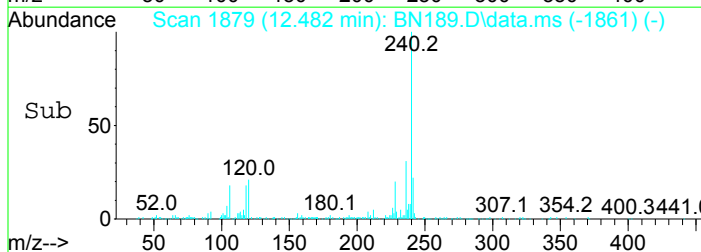
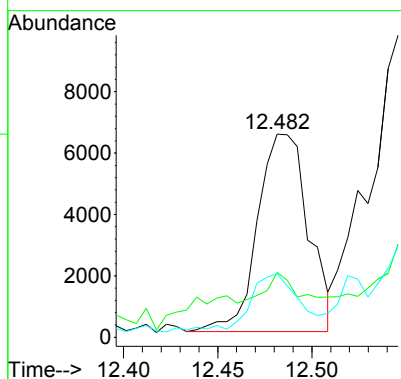
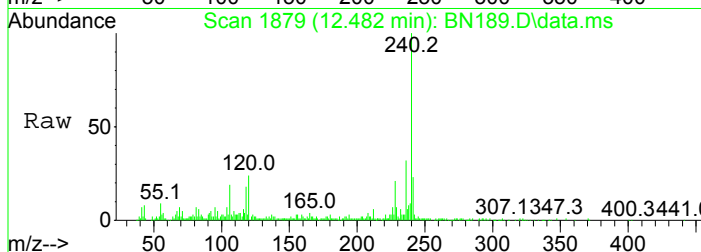
#84  
 Pyrene  
 Concen: 1.79 ppm  
 RT: 10.706 min Scan# 1547  
 Delta R.T. -0.001 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

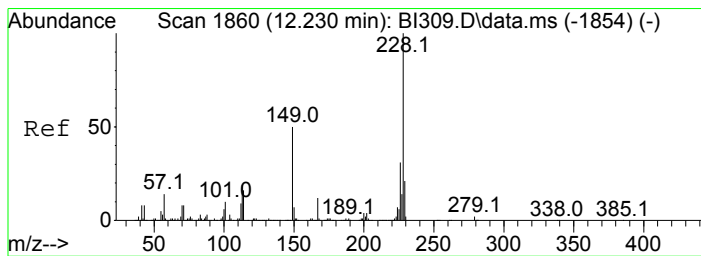
Tgt Ion	Resp	Lower	Upper
202	19265		
200	26.0	0.0	40.0
203	15.8	0.0	37.4



#88  
 Benzo(a)anthracene  
 Concen: 1.18 ppm  
 RT: 12.482 min Scan# 1879  
 Delta R.T. -0.005 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

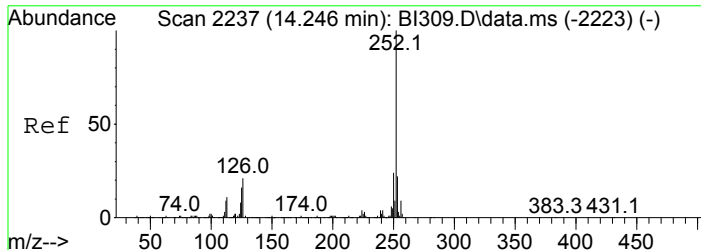
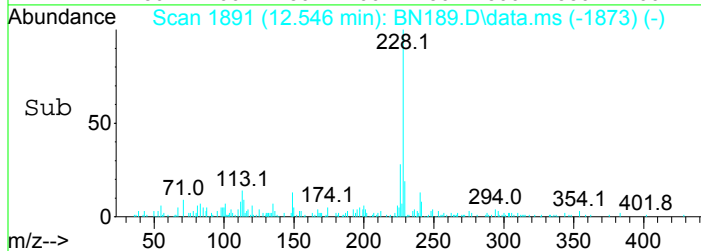
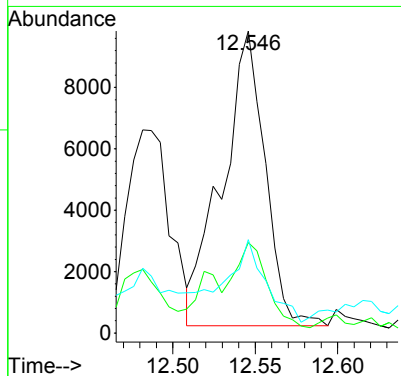
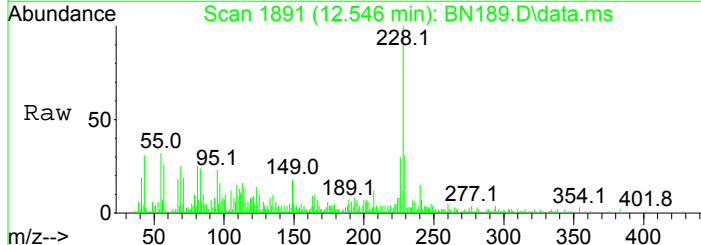
Tgt Ion	Resp	Lower	Upper
228	12069		
229	17.6	0.0	39.7
226	26.9	6.9	46.9





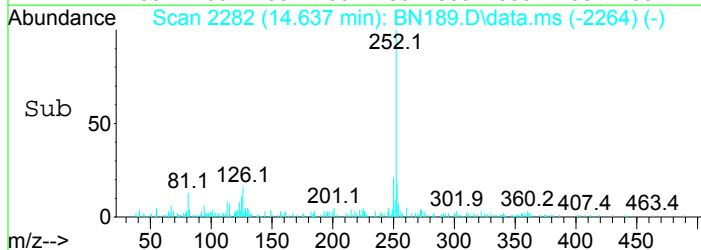
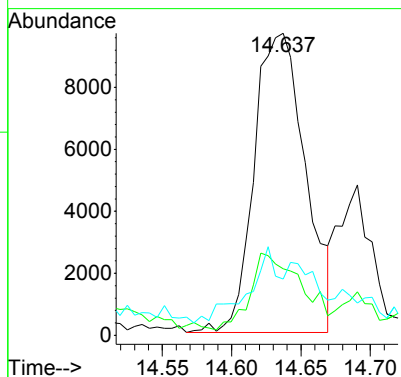
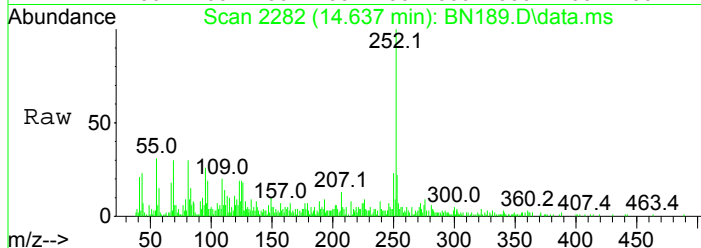
#89  
 Chrysene  
 Concen: 1.78 ppm  
 RT: 12.546 min Scan# 1891  
 Delta R.T. -0.006 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

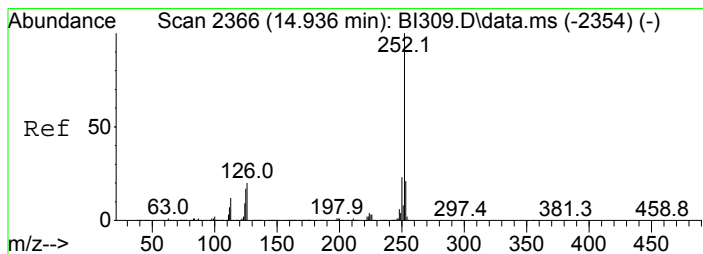
Tgt Ion	Resp	Lower	Upper
228	17376		
226	25.8	9.0	49.0
229	22.4	0.0	39.1



#93  
 Benzo(b)Fluoranthene  
 Concen: 2.24 ppm  
 RT: 14.637 min Scan# 2282  
 Delta R.T. -0.003 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

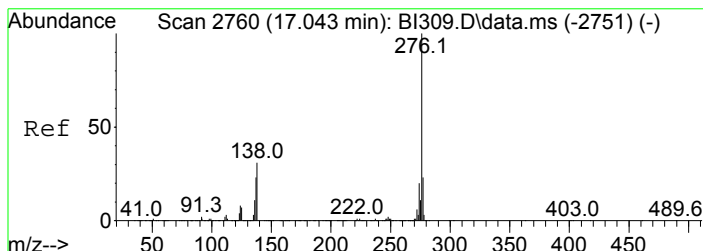
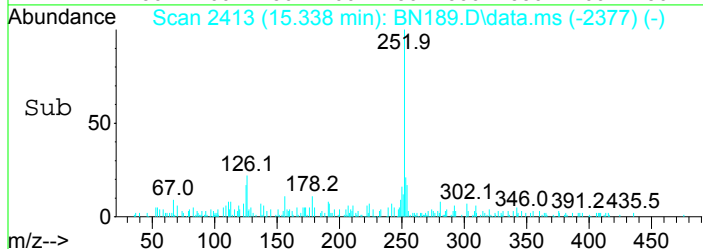
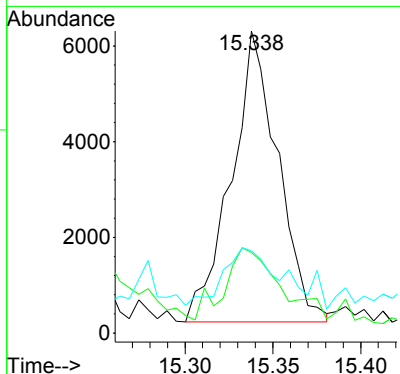
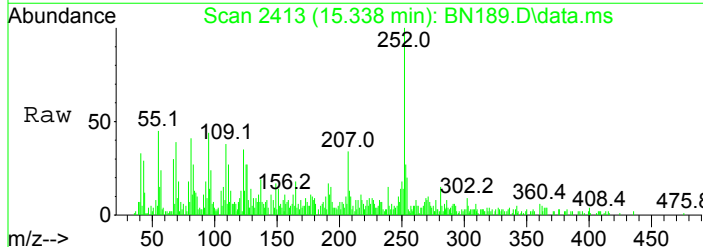
Tgt Ion	Resp	Lower	Upper
252	24838		
253	20.2	3.9	43.9
125	11.6	0.0	35.3





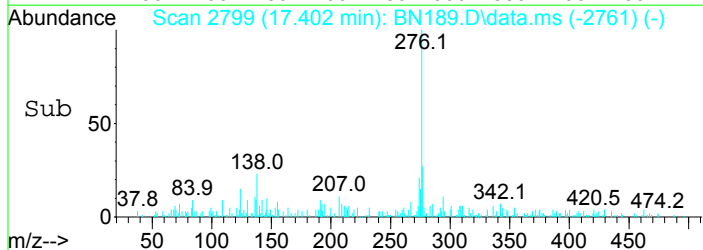
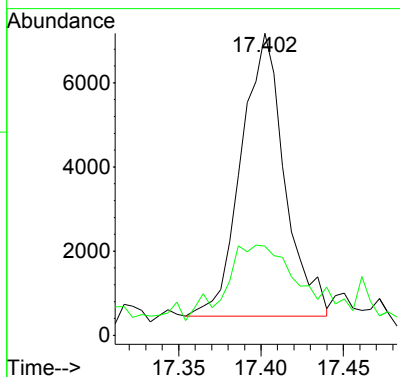
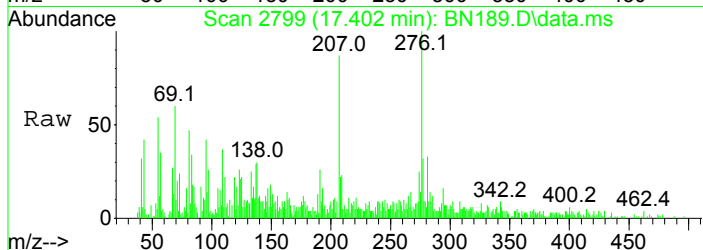
#95  
 Benzo(a)pyrene  
 Concen: 1.19 ppm  
 RT: 15.338 min Scan# 2413  
 Delta R.T. -0.005 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

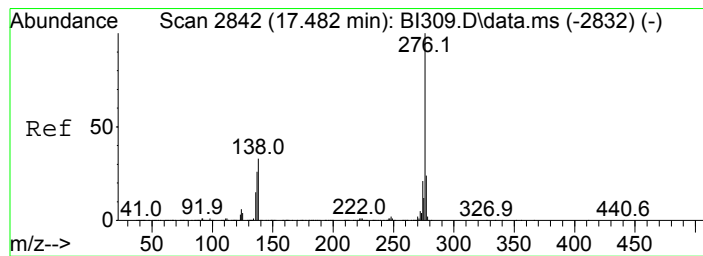
Tgt Ion	Resp	Lower	Upper
252	11223		
253	22.5	1.6	41.6
125	19.6	0.0	35.7



#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 1.49 ppm  
 RT: 17.402 min Scan# 2799  
 Delta R.T. 0.001 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

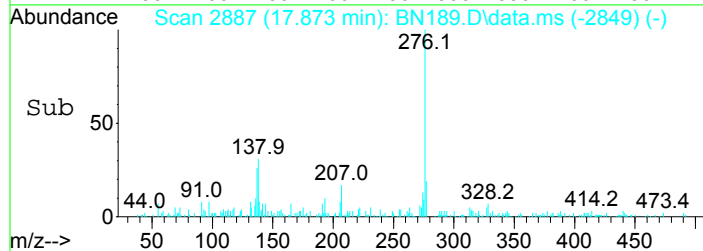
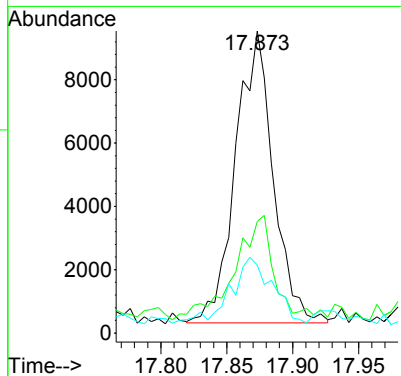
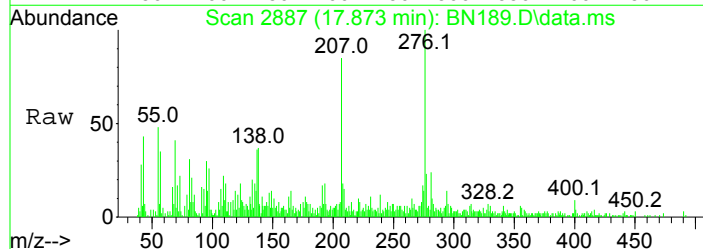
Tgt Ion	Resp	Lower	Upper
276	12314		
138	20.7	7.0	47.0





#98  
 Benzo(g,h,i)perylene  
 Concen: 2.18 ppm  
 RT: 17.873 min Scan# 2887  
 Delta R.T. 0.005 min  
 Lab File: BN189.D  
 Acq: 22 Feb 2018 12:06 pm

Tgt Ion	Resp	Lower	Upper
276	18207		
138	32.6	8.6	48.6
277	17.4	2.2	42.2



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN187.D  
 Acq On : 22 Feb 2018 11:10 am  
 Operator : J.Misiurewicz  
 Sample : R1801334-007  
 Misc : 308593 8270D SOIL  
 ALS Vial : 8 Sample Multiplier: 1

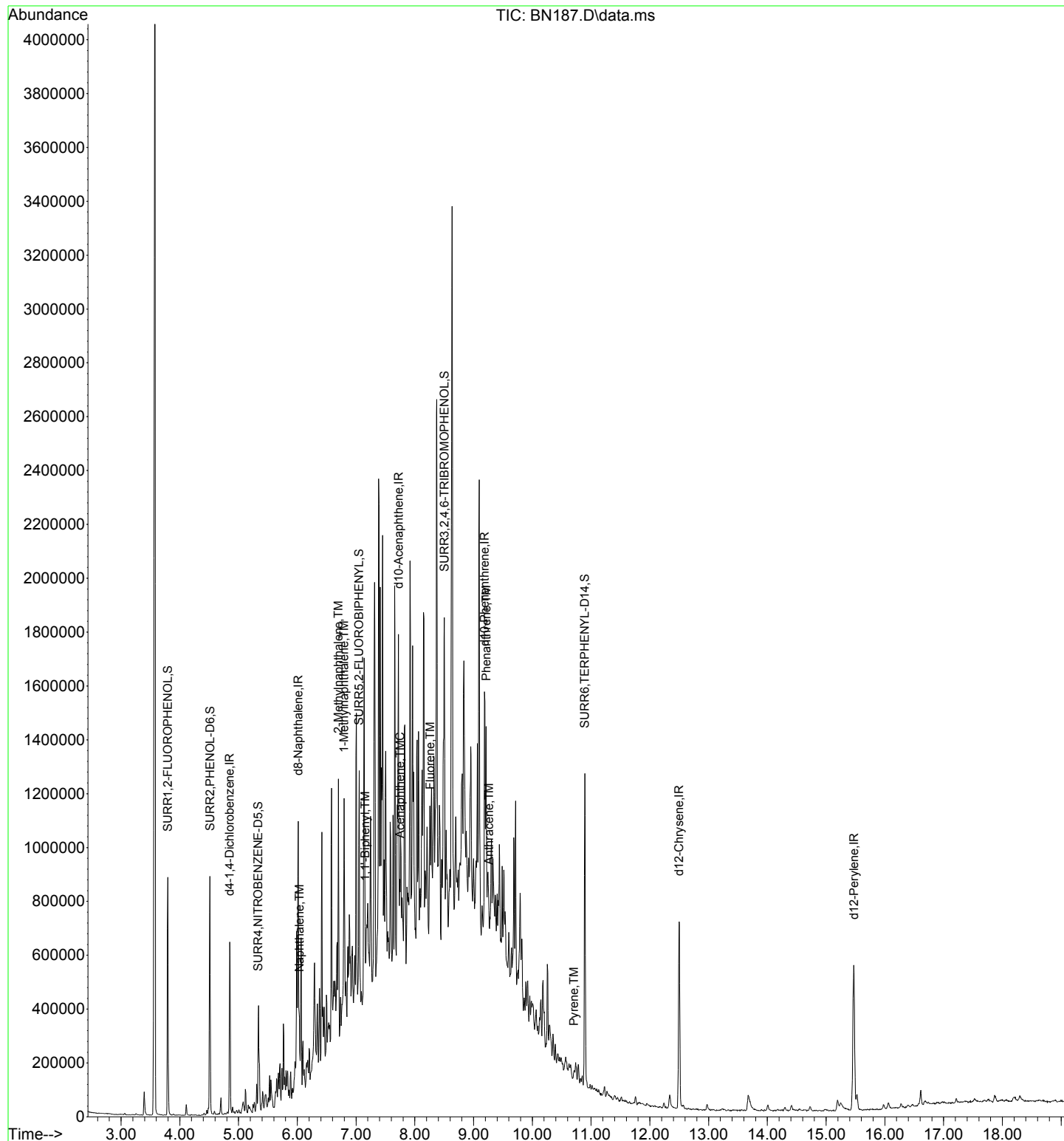
Quant Time: Feb 22 13:11:25 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

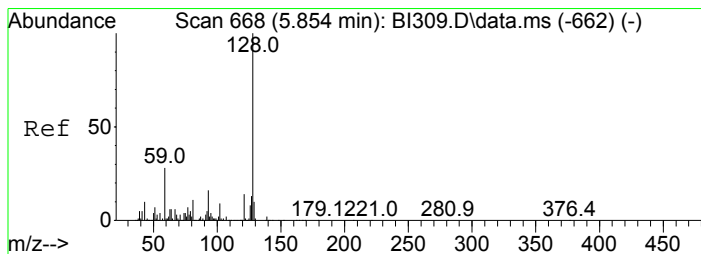
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.849	152	108222	40.00	ppm	0.00
24) d8-Naphthalene	6.015	136	403526	40.00	ppm	0.00
42) d10-Acenaphthene	7.721	164	209057	40.00	ppm	0.00
69) d10-Phenanthrene	9.187	188	358589	40.00	ppm	0.00
82) d12-Chrysene	12.498	240	356898	40.00	ppm	0.00
91) d12-Perylene	15.471	264	379021	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.795	112	275254	81.90	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	40.95%		
8) SURR2,PHENOL-D6	4.512	99	347770	87.70	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	43.85%		
25) SURR4,NITROBENZENE-D5	5.336	82	124640	45.20	ppm	0.00
Spiked Amount 100.000	Range 11	- 91	Recovery =	45.20%		
48) SURR5,2-FLUOROBIPHENYL	7.053	172	259208	35.46	ppm	0.00
Spiked Amount 100.000	Range 14	- 102	Recovery =	35.46%		
67) SURR3,2,4,6-TRIBROMOPH...	8.502	330	133096	120.21	ppm	0.00
Spiked Amount 200.000	Range 10	- 109	Recovery =	60.10%		
85) SURR6,TERPHENYL-D14	10.893	244	456199	59.65	ppm	0.00
Spiked Amount 100.000	Range 16	- 120	Recovery =	59.65%		
<b>Target Compounds</b>						
34) Naphthalene	6.036	128	58024	6.012	ppm	96
40) 2-Methylnaphthalene	6.700	142	268580	43.375	ppm	95
41) 1-Methylnaphthalene	6.796	142	218518	37.338	ppm	99
49) 1,1'-Biphenyl	7.154	154	41493	5.162	ppm	99
55) Acenaphthene	7.753	153	34261	5.171	ppm	92
63) Fluorene	8.261	166	57663	8.307	ppm	99
77) Phenanthrene	9.213	178	274466	30.484	ppm	96
78) Anthracene	9.262	178	10185	1.144	ppm	81
84) Pyrene	10.706	202	10608	1.034	ppm	87

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN187.D  
Acq On : 22 Feb 2018 11:10 am  
Operator : J.Misiurewicz  
Sample : R1801334-007  
Misc : 308593 8270D SOIL  
ALS Vial : 8 Sample Multiplier: 1

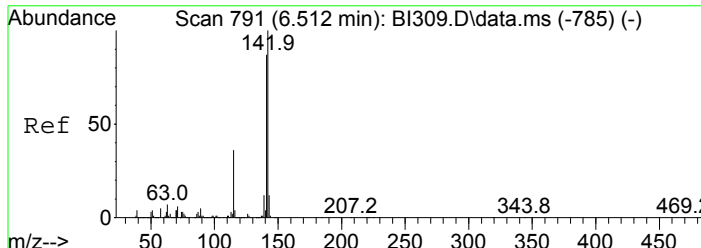
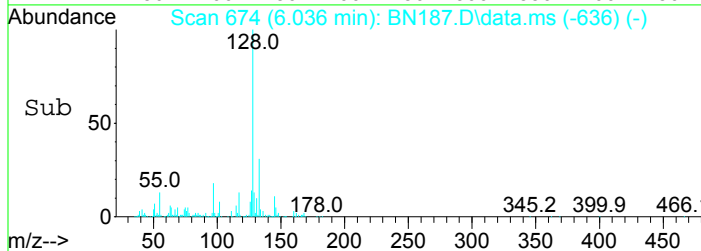
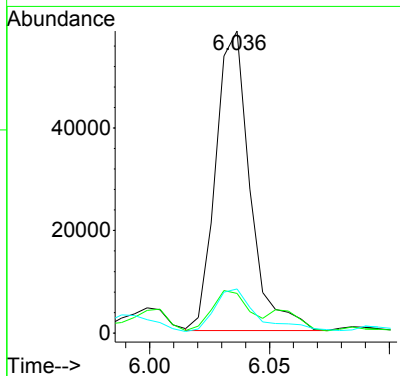
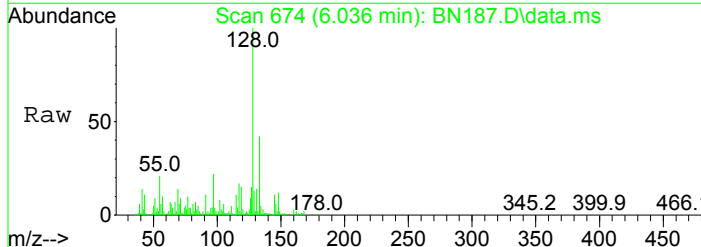
Quant Time: Feb 22 13:11:25 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration





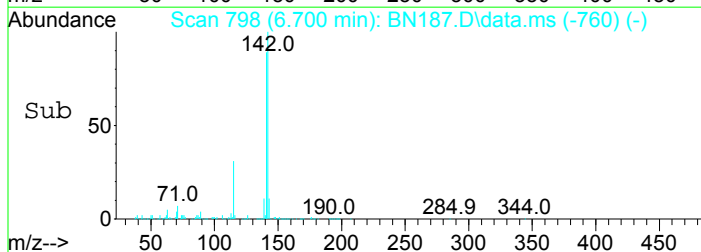
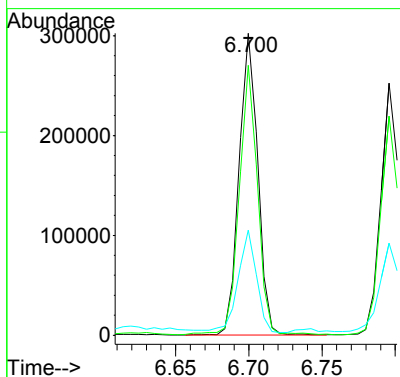
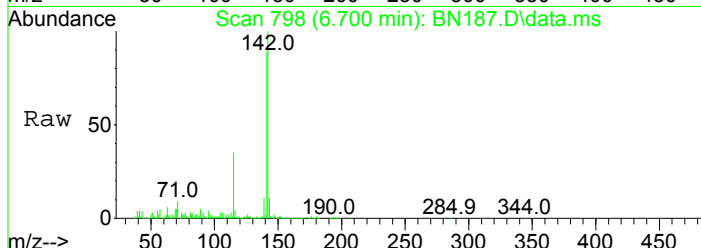
#34  
 Naphthalene  
 Concen: 6.01 ppm  
 RT: 6.036 min Scan# 674  
 Delta R.T. 0.002 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

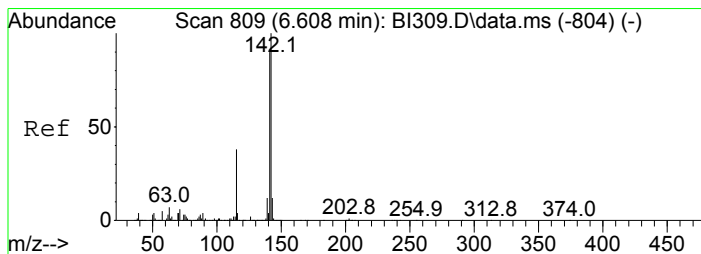
Tgt Ion	Resp	Lower	Upper
128	58024		
129	12.5	0.0	30.7
127	14.0	0.0	32.8



#40  
 2-Methylnaphthalene  
 Concen: 43.38 ppm  
 RT: 6.700 min Scan# 798  
 Delta R.T. 0.001 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

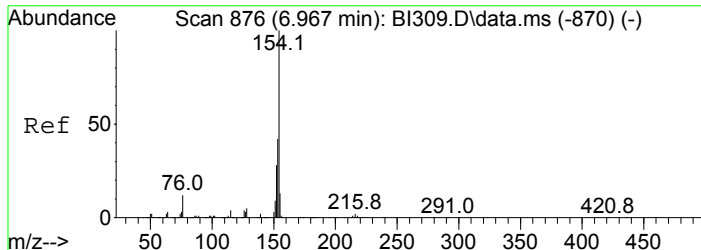
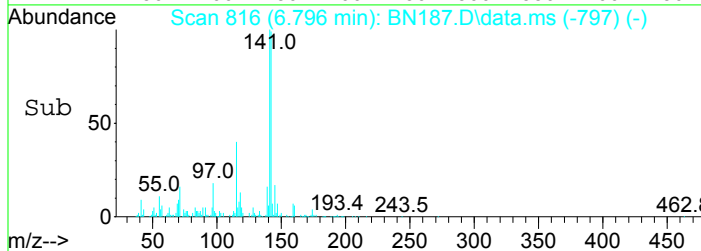
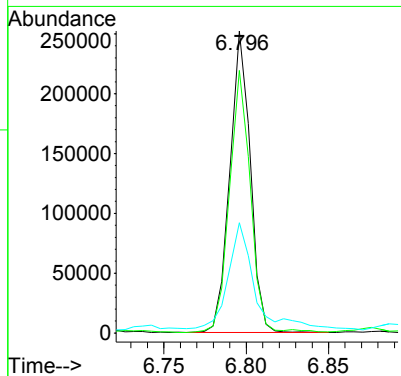
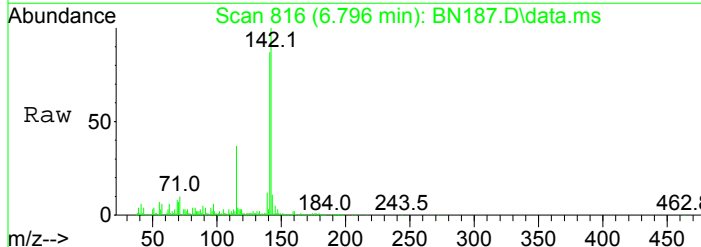
Tgt Ion	Resp	Lower	Upper
142	268580		
141	89.2	63.3	103.3
115	33.3	14.6	54.6





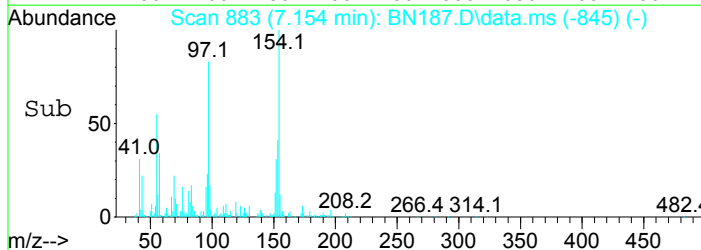
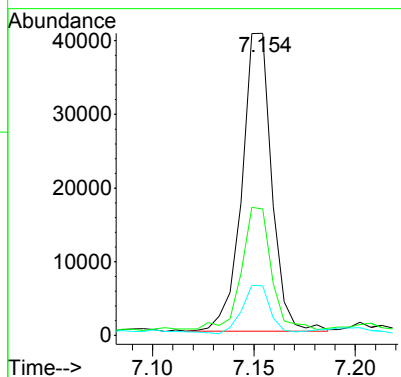
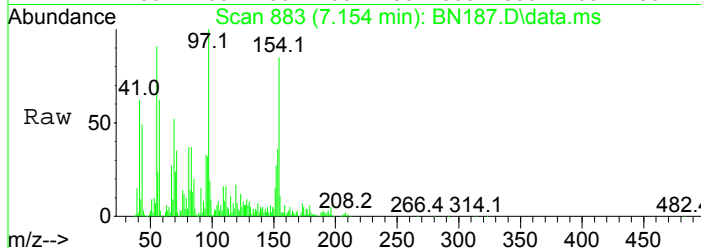
#41  
 1-Methylnaphthalene  
 Concen: 37.34 ppm  
 RT: 6.796 min Scan# 816  
 Delta R.T. 0.000 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

Tgt Ion	Resp	Lower	Upper
142	100		
141	86.8	58.2	118.2
115	34.8	4.7	64.7

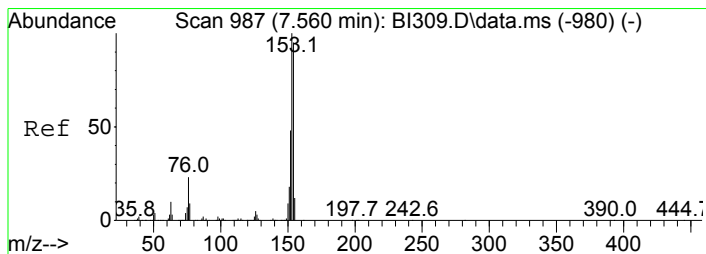


#49  
 1,1'-Biphenyl  
 Concen: 5.16 ppm  
 RT: 7.154 min Scan# 883  
 Delta R.T. 0.002 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

Tgt Ion	Resp	Lower	Upper
154	100		
153	40.2	28.6	53.0
76	15.5	10.9	20.3

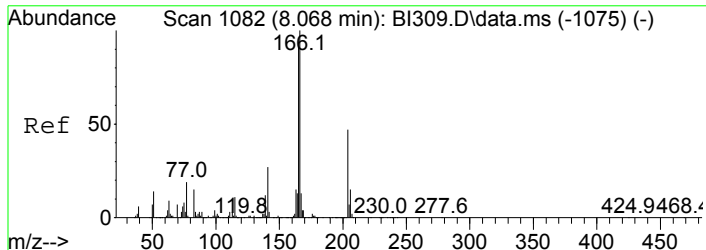
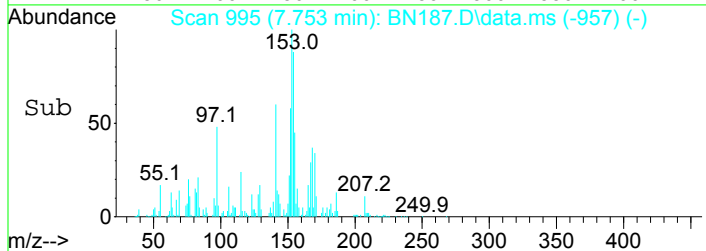
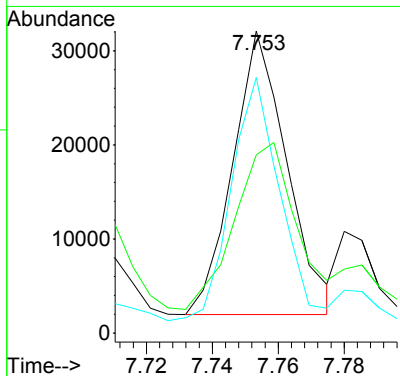
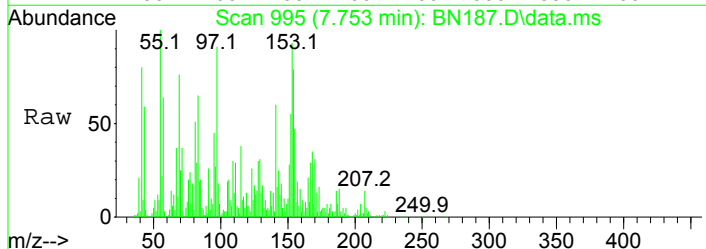






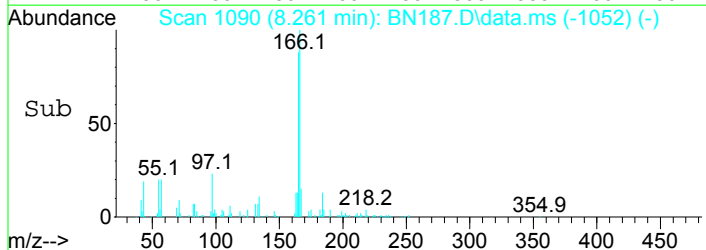
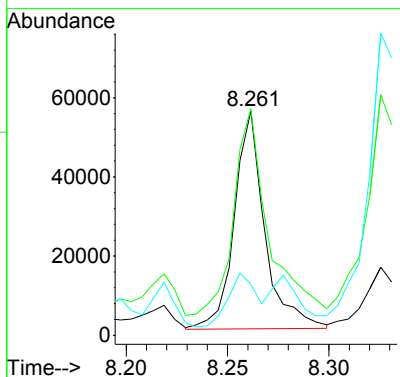
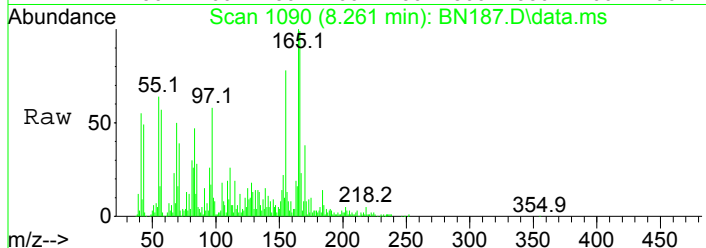
#55  
 Acenaphthene  
 Concen: 5.17 ppm  
 RT: 7.753 min Scan# 995  
 Delta R.T. 0.002 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

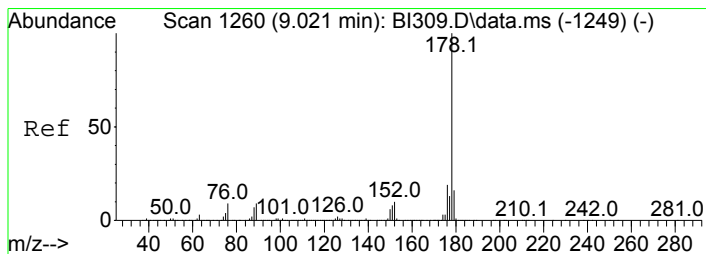
Tgt Ion	Resp	Lower	Upper
153	100		
152	52.1	27.3	67.3
154	87.8	75.8	115.8



#63  
 Fluorene  
 Concen: 8.31 ppm  
 RT: 8.261 min Scan# 1090  
 Delta R.T. 0.003 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

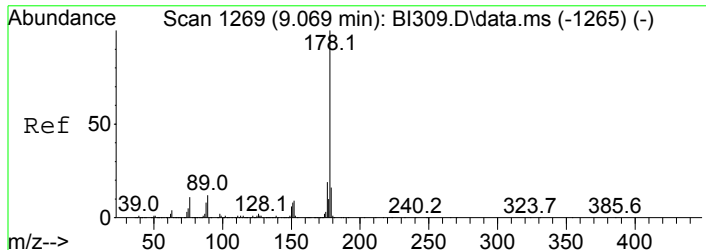
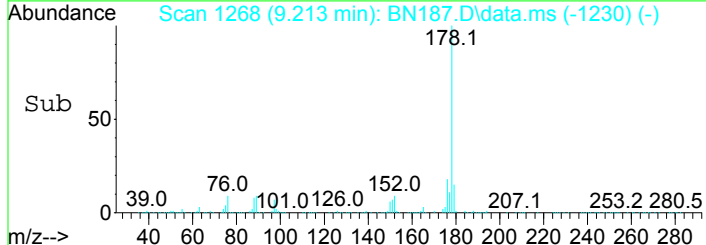
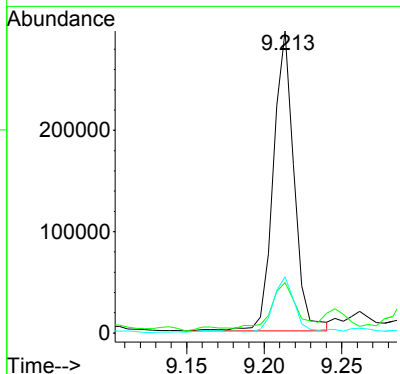
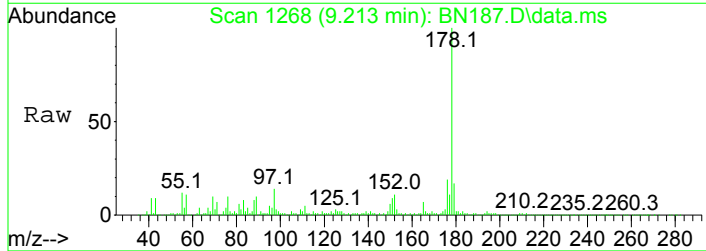
Tgt Ion	Resp	Lower	Upper
166	100		
165	94.7	64.0	124.0
167	16.2	0.0	44.2





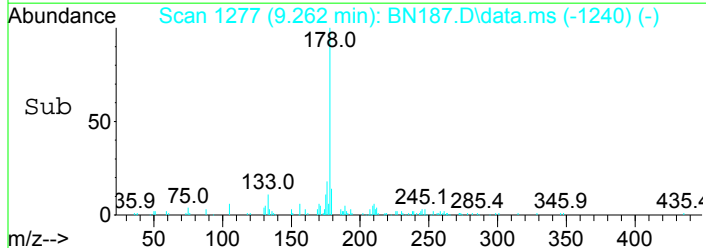
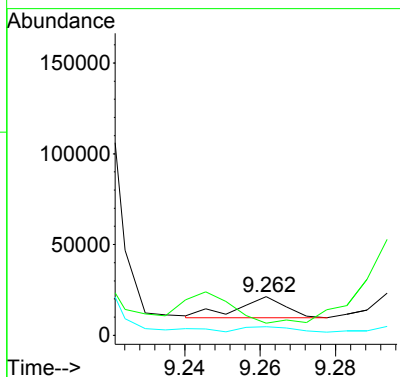
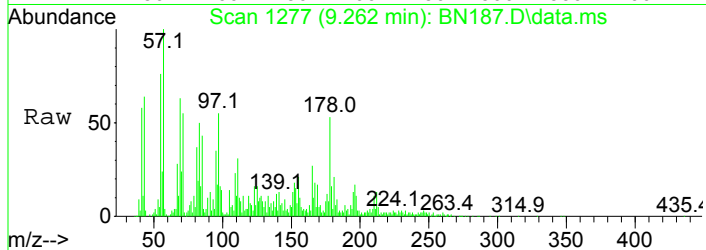
#77  
 Phenanthrene  
 Concen: 30.48 ppm  
 RT: 9.213 min Scan# 1268  
 Delta R.T. 0.003 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

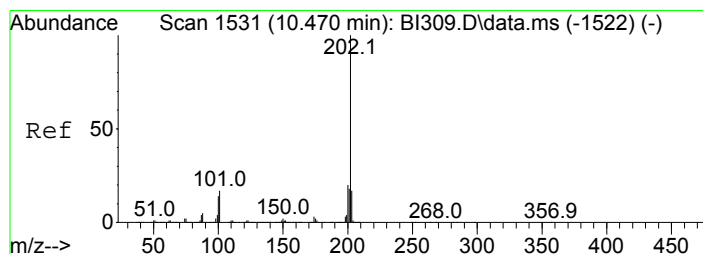
Tgt Ion	Resp	Lower	Upper
178	274466		
179	13.4	0.0	35.9
176	18.2	0.0	39.1



#78  
 Anthracene  
 Concen: 1.14 ppm  
 RT: 9.262 min Scan# 1277  
 Delta R.T. 0.000 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

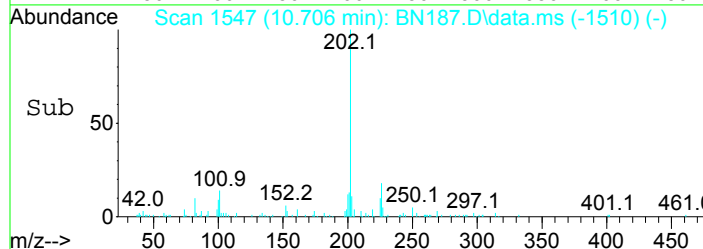
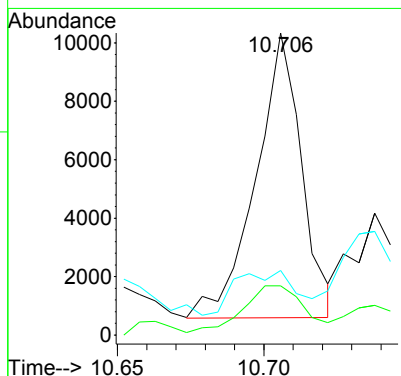
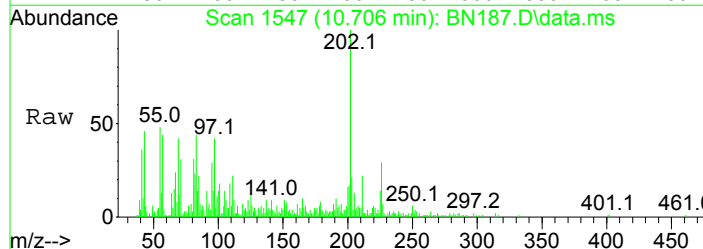
Tgt Ion	Resp	Lower	Upper
178	10185		
179	0.0	0.0	35.7
176	19.1	0.0	38.0





#84  
 Pyrene  
 Concen: 1.03 ppm  
 RT: 10.706 min Scan# 1547  
 Delta R.T. -0.001 min  
 Lab File: BN187.D  
 Acq: 22 Feb 2018 11:10 am

Tgt Ion	Resp	Lower	Upper
202	10608		
200	15.6	0.0	40.0
203	10.2	0.0	37.4



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN190.D  
 Acq On : 22 Feb 2018 12:34 pm  
 Operator : J.Misiurewicz  
 Sample : R1801334-009  
 Misc : 308593 8270D SOIL  
 ALS Vial : 11 Sample Multiplier: 1

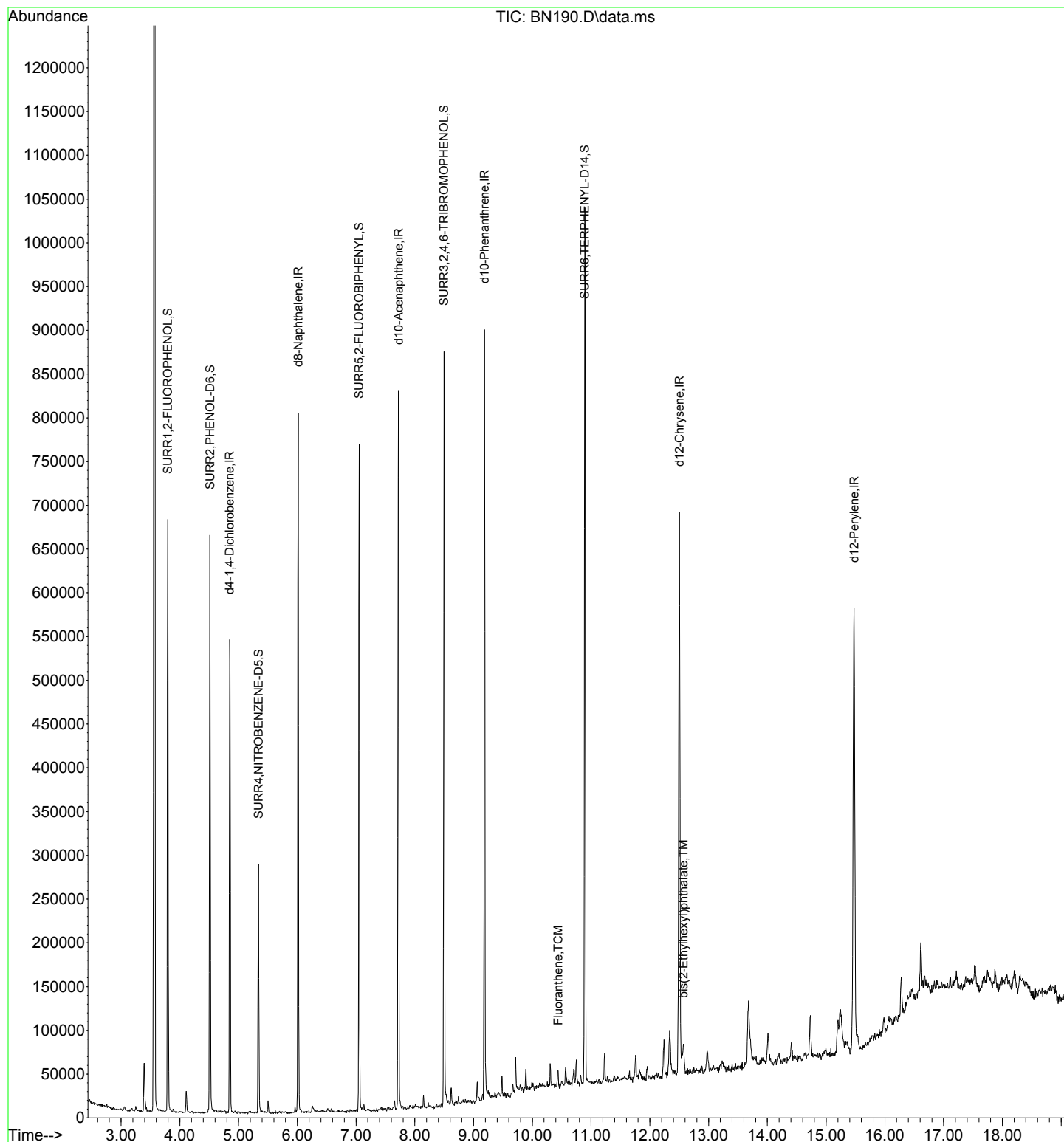
Quant Time: Feb 22 13:11:38 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

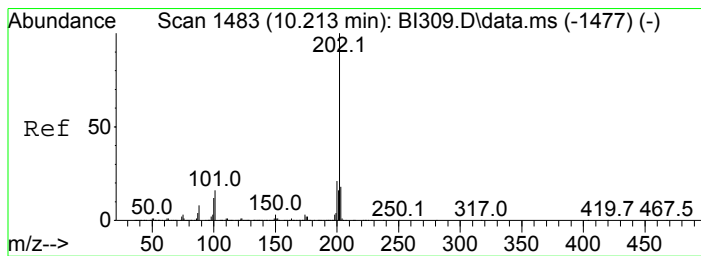
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.849	152	92857	40.00	ppm	0.00
24) d8-Naphthalene	6.015	136	343124	40.00	ppm	0.00
42) d10-Acenaphthene	7.721	164	178831	40.00	ppm	0.00
69) d10-Phenanthrene	9.187	188	319912	40.00	ppm	0.00
82) d12-Chrysene	12.503	240	325930	40.00	ppm	0.00
91) d12-Perylene	15.477	264	345462	40.00	ppm	0.00
System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.795	112	212668	73.75	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	36.88%		
8) SURR2,PHENOL-D6	4.512	99	261165	76.75	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	38.38%		
25) SURR4,NITROBENZENE-D5	5.341	82	102792	43.84	ppm	0.00
Spiked Amount 100.000	Range 11	- 91	Recovery =	43.84%		
48) SURR5,2-FLUOROBIPHENYL	7.053	172	231696	37.05	ppm	0.00
Spiked Amount 100.000	Range 14	- 102	Recovery =	37.05%		
67) SURR3,2,4,6-TRIBROMOPH...	8.497	330	116556	123.06	ppm	0.00
Spiked Amount 200.000	Range 10	- 109	Recovery =	61.53%		
85) SURR6,TERPHENYL-D14	10.893	244	406812	58.25	ppm	0.00
Spiked Amount 100.000	Range 16	- 120	Recovery =	58.25%		
Target Compounds						Qvalue
81) Fluoranthene	10.438	202	9043	1.049	ppm	96
90) bis(2-Ethylhexyl)phtha...	12.572	149	15128	2.235	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN190.D  
Acq On : 22 Feb 2018 12:34 pm  
Operator : J.Misiurewicz  
Sample : R1801334-009  
Misc : 308593 8270D SOIL  
ALS Vial : 11 Sample Multiplier: 1

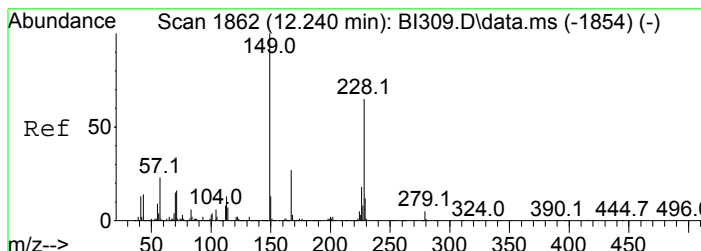
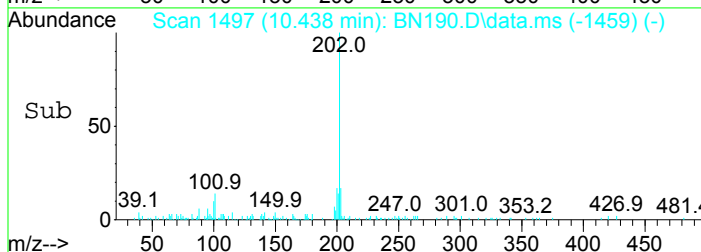
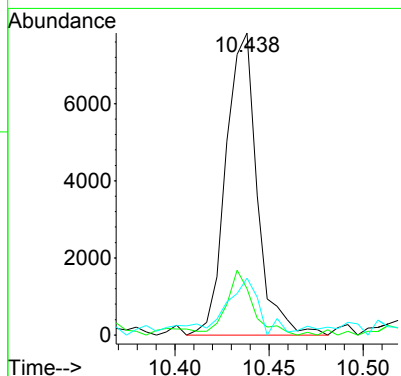
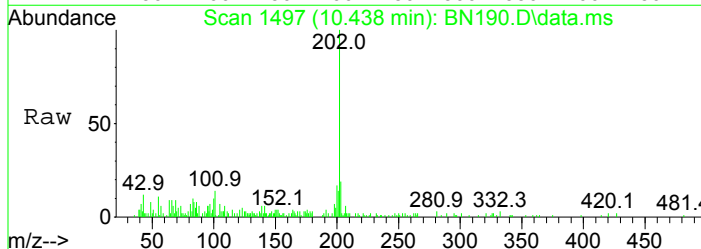
Quant Time: Feb 22 13:11:38 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration





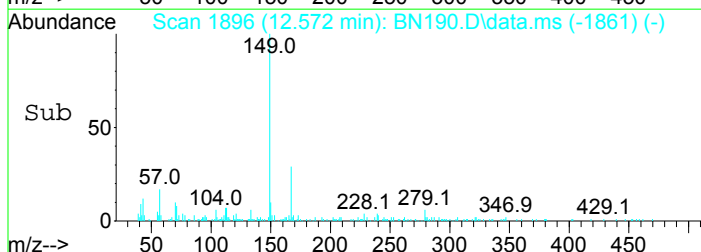
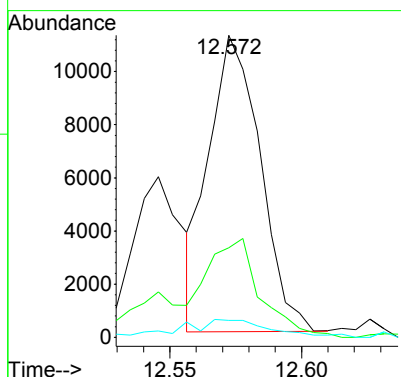
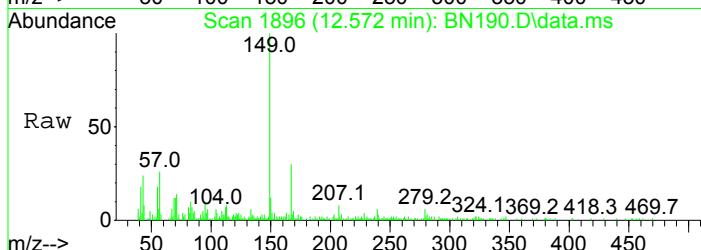
#81  
 Fluoranthene  
 Concen: 1.05 ppm  
 RT: 10.438 min Scan# 1497  
 Delta R.T. 0.002 min  
 Lab File: BN190.D  
 Acq: 22 Feb 2018 12:34 pm

Tgt Ion	Resp	Lower	Upper
202	100		
101	13.6	0.0	35.5
203	16.1	0.0	37.5



#90  
 bis(2-Ethylhexyl)phthalate  
 Concen: 2.23 ppm  
 RT: 12.572 min Scan# 1896  
 Delta R.T. -0.012 min  
 Lab File: BN190.D  
 Acq: 22 Feb 2018 12:34 pm

Tgt Ion	Resp	Lower	Upper
149	100		
167	29.1	8.1	48.1
279	3.3	0.0	25.3



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN191.D  
 Acq On : 22 Feb 2018 1:01 pm  
 Operator : J.Misiurewicz  
 Sample : R1801334-014  
 Misc : 308593 8270D SOIL  
 ALS Vial : 12 Sample Multiplier: 1

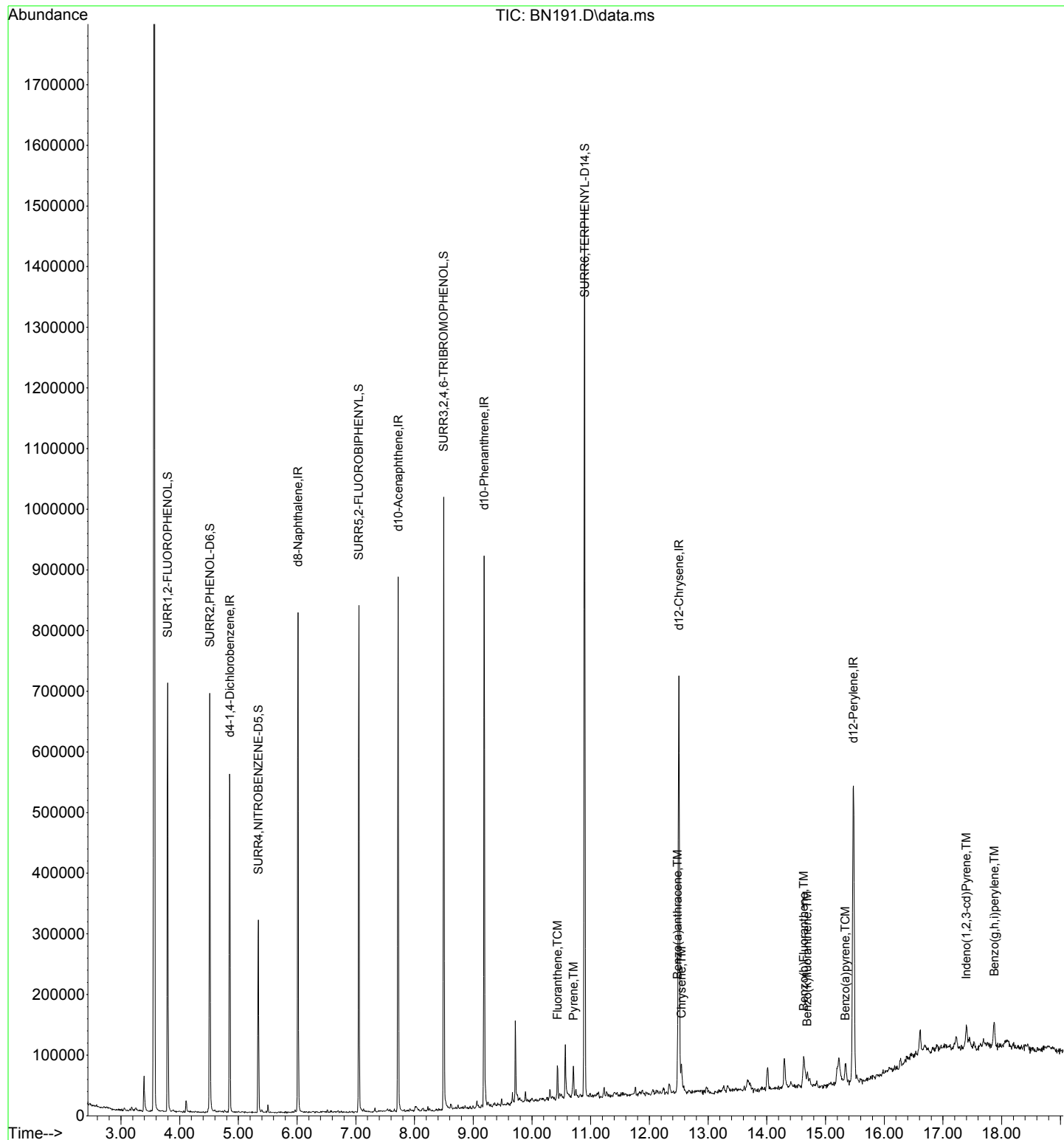
Quant Time: Feb 22 13:26:01 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.854	152	95923	40.00	ppm	0.00	
24) d8-Naphthalene	6.015	136	354821	40.00	ppm	0.00	
42) d10-Acenaphthene	7.721	164	183223	40.00	ppm	0.00	
69) d10-Phenanthrene	9.187	188	325185	40.00	ppm	0.00	
82) d12-Chrysene	12.503	240	332299	40.00	ppm	0.00	
91) d12-Perylene	15.471	264	345076	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.795	112	222560	74.71	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	37.35%	
8) SURR2,PHENOL-D6	4.512	99	265448	75.52	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	37.76%	
25) SURR4,NITROBENZENE-D5	5.341	82	108923	44.92	ppm	0.00	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	44.92%	
48) SURR5,2-FLUOROBIPHENYL	7.053	172	246663	38.50	ppm	0.00	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	38.50%	
67) SURR3,2,4,6-TRIBROMOPH...	8.497	330	132815	136.87	ppm	0.00	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	68.44%	
85) SURR6,TERPHENYL-D14	10.898	244	605192	84.99	ppm	0.00	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	84.99%	
<b>Target Compounds</b>							
							Qvalue
81) Fluoranthene	10.433	202	25636	2.926	ppm		96
84) Pyrene	10.706	202	25155	2.634	ppm		98
88) Benzo(a)anthracene	12.482	228	22536	2.481	ppm		97
89) Chrysene	12.546	228	25881	2.993	ppm		93
93) Benzo(b)Fluoranthene	14.626	252	45363	4.559	ppm		87
94) Benzo(k)fluoranthene	14.691	252	14437	1.507	ppm		97
95) Benzo(a)pyrene	15.338	252	22636	2.674	ppm		95
96) Indeno(1,2,3-cd)Pyrene	17.397	276	22579	3.051	ppm		89
98) Benzo(g,h,i)perylene	17.873	276	28036	3.741	ppm		90

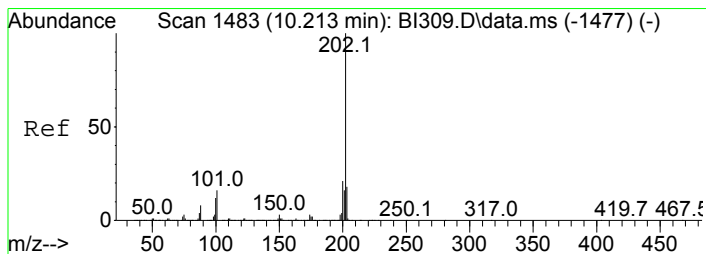
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN191.D  
Acq On : 22 Feb 2018 1:01 pm  
Operator : J.Misiurewicz  
Sample : R1801334-014  
Misc : 308593 8270D SOIL  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 22 13:26:01 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration

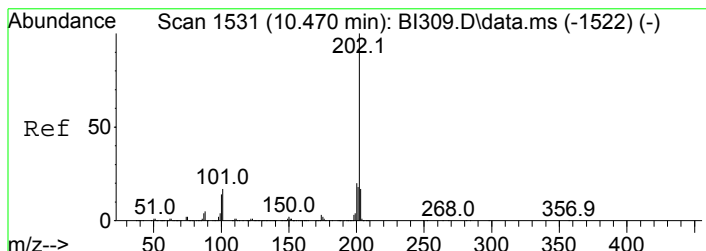
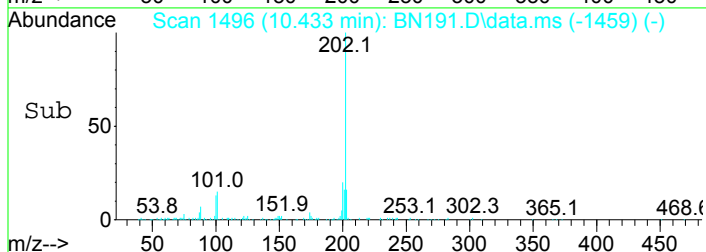
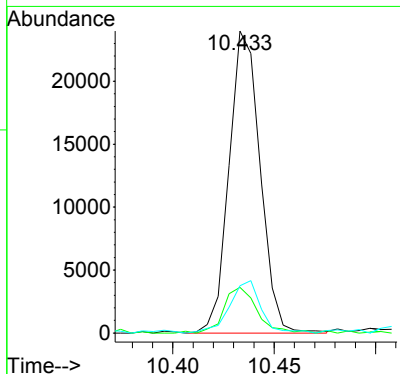
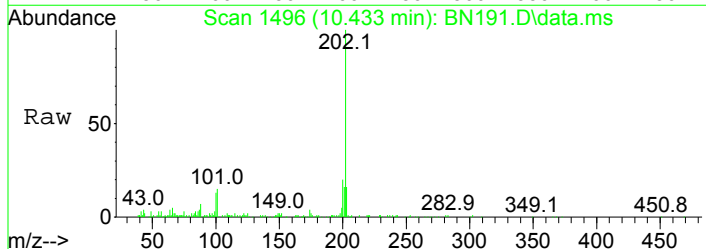






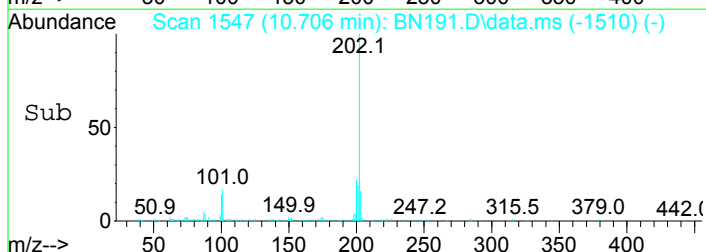
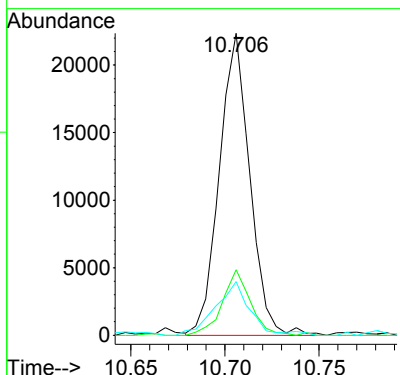
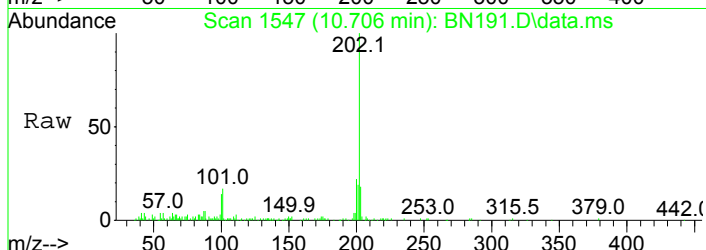
#81  
 Fluoranthene  
 Concen: 2.93 ppm  
 RT: 10.433 min Scan# 1496  
 Delta R.T. -0.004 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

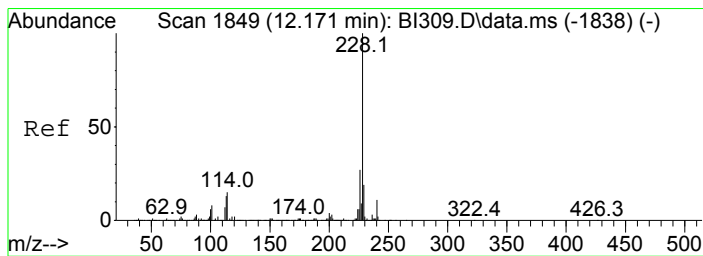
Tgt Ion	Resp	Lower	Upper
202	100		
101	14.5	0.0	35.5
203	15.2	0.0	37.5



#84  
 Pyrene  
 Concen: 2.63 ppm  
 RT: 10.706 min Scan# 1547  
 Delta R.T. -0.001 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

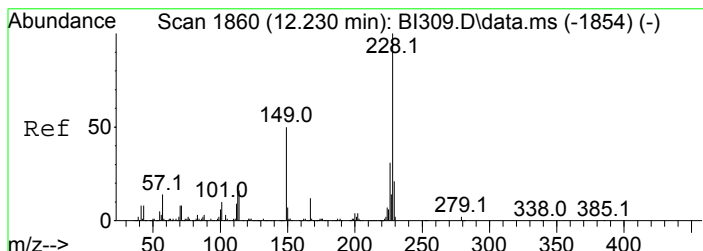
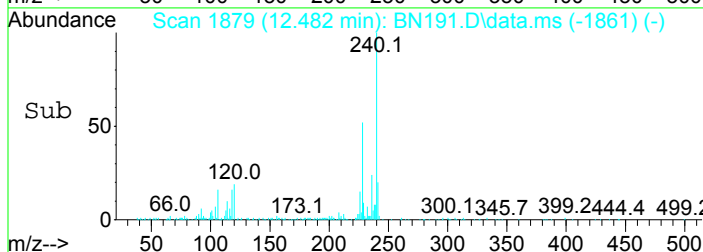
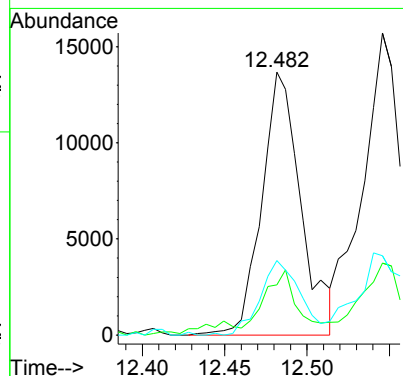
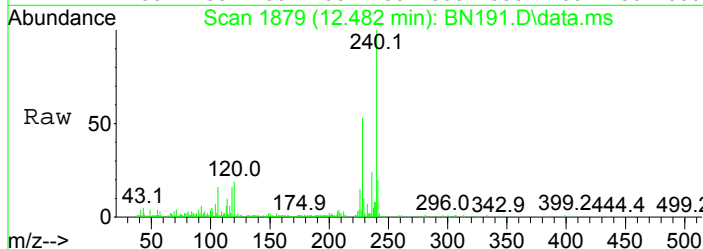
Tgt Ion	Resp	Lower	Upper
202	100		
200	21.4	0.0	40.0
203	17.0	0.0	37.4





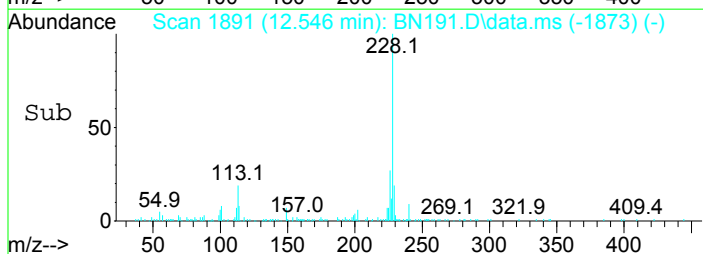
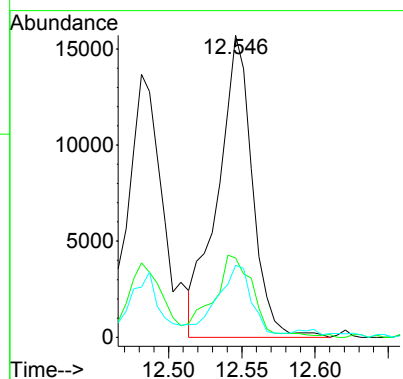
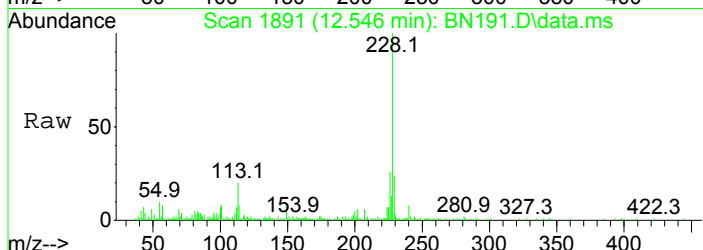
#88  
 Benzo(a)anthracene  
 Concen: 2.48 ppm  
 RT: 12.482 min Scan# 1879  
 Delta R.T. -0.005 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

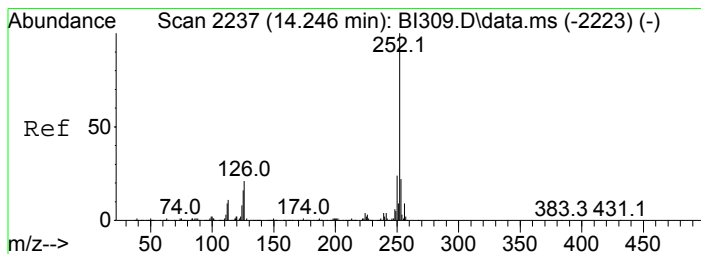
Tgt Ion	Resp	Lower	Upper
228	100		
229	17.0	0.0	39.7
226	27.7	6.9	46.9



#89  
 Chrysene  
 Concen: 2.99 ppm  
 RT: 12.546 min Scan# 1891  
 Delta R.T. -0.006 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

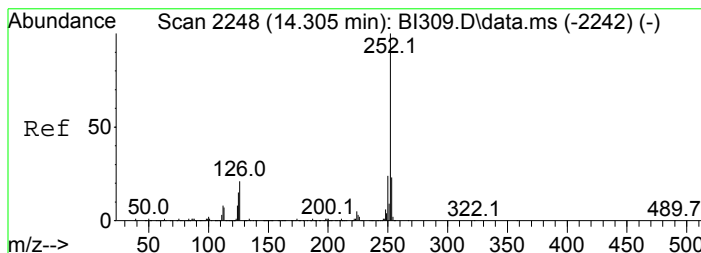
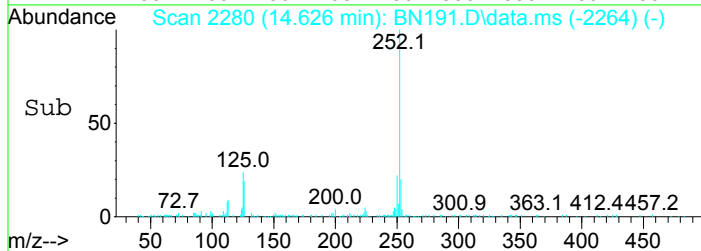
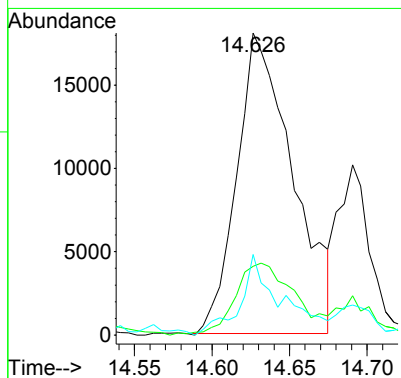
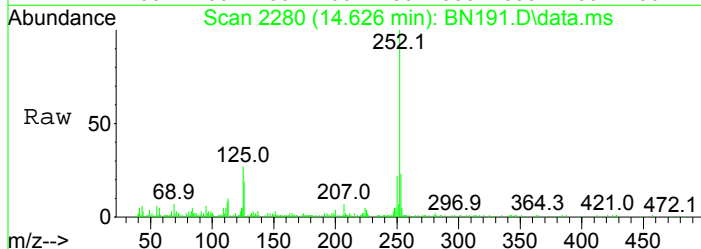
Tgt Ion	Resp	Lower	Upper
228	100		
226	25.6	9.0	49.0
229	22.8	0.0	39.1





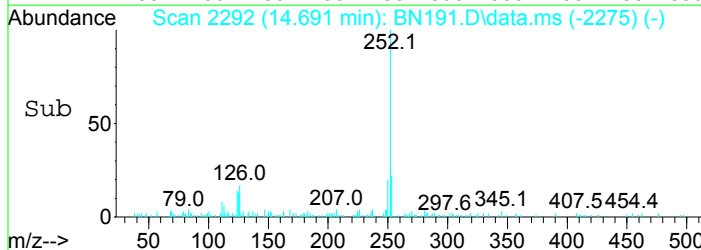
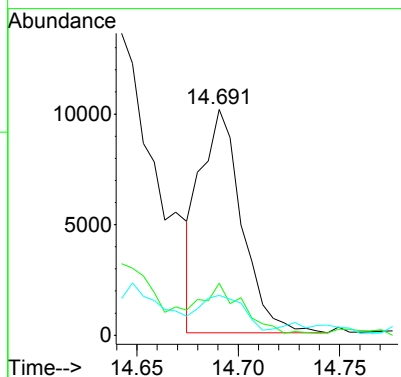
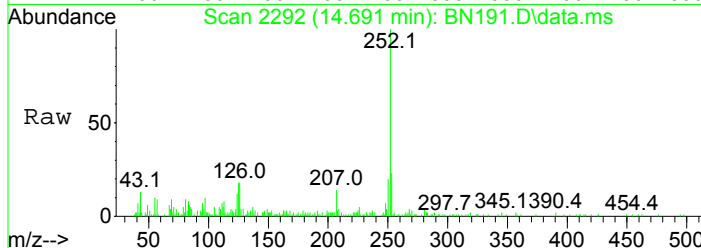
#93  
 Benzo(b)Fluoranthene  
 Concen: 4.56 ppm  
 RT: 14.626 min Scan# 2280  
 Delta R.T. -0.014 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

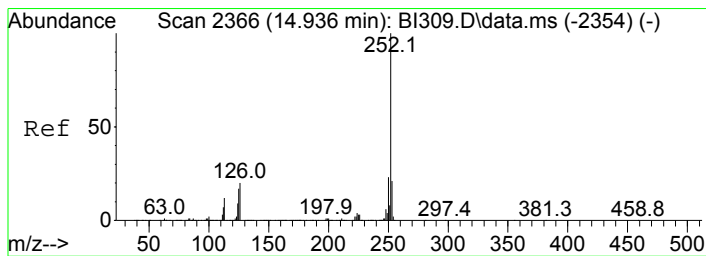
Tgt Ion	252	253	125	Resp	45363	Lower	Upper
Ion Ratio	100	22.7	27.7			3.9	43.9



#94  
 Benzo(k)fluoranthene  
 Concen: 1.51 ppm  
 RT: 14.691 min Scan# 2292  
 Delta R.T. -0.007 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

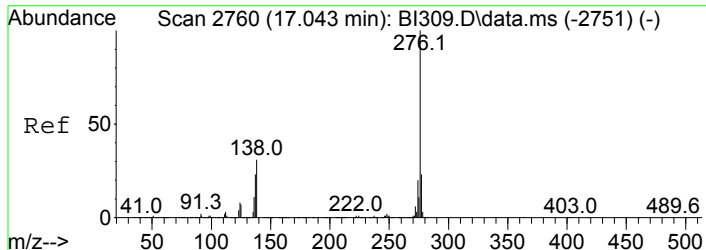
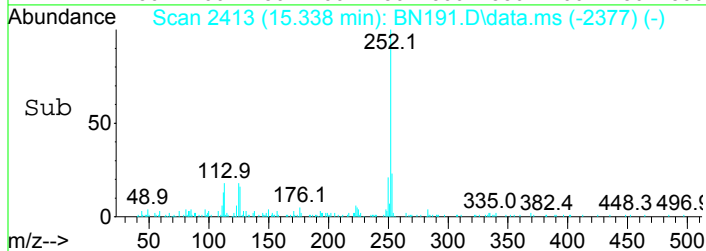
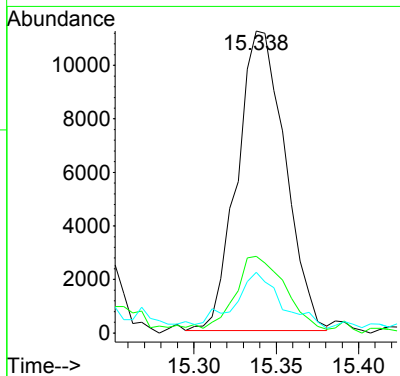
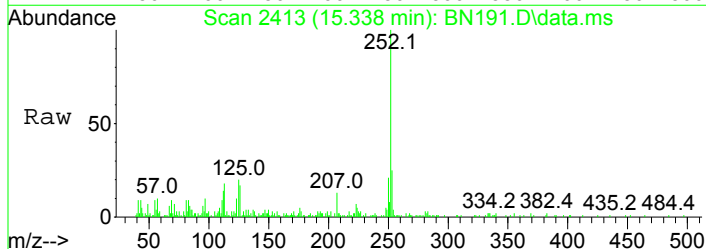
Tgt Ion	252	253	125	Resp	14437	Lower	Upper
Ion Ratio	100	23.0	15.2			1.8	41.8





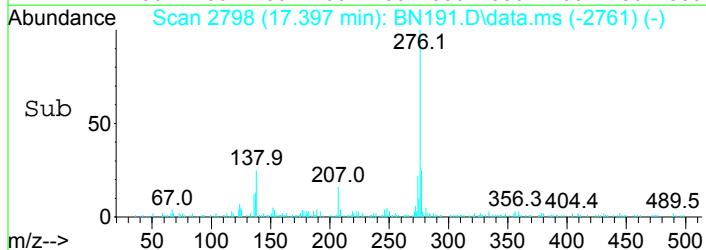
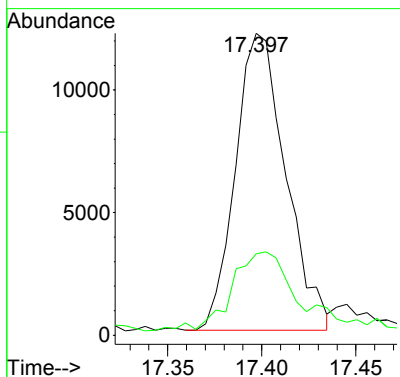
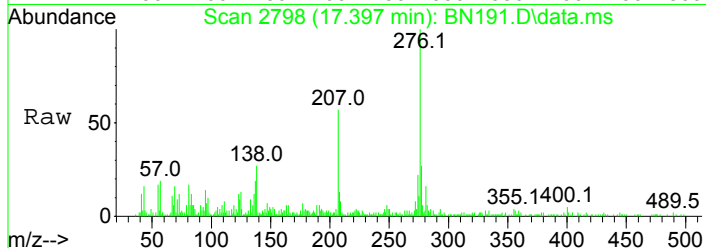
#95  
 Benzo(a)pyrene  
 Concen: 2.67 ppm  
 RT: 15.338 min Scan# 2413  
 Delta R.T. -0.005 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

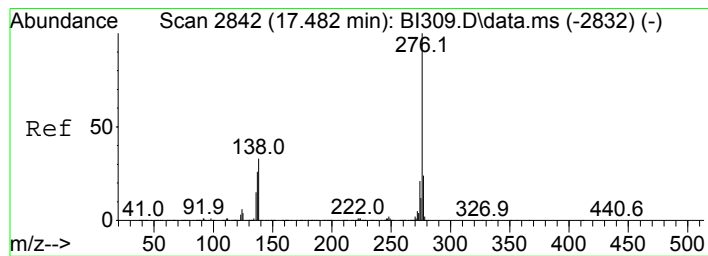
Tgt Ion	Resp	Lower	Upper
252	100		
253	24.2	1.6	41.6
125	17.7	0.0	35.7



#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 3.05 ppm  
 RT: 17.397 min Scan# 2798  
 Delta R.T. -0.004 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

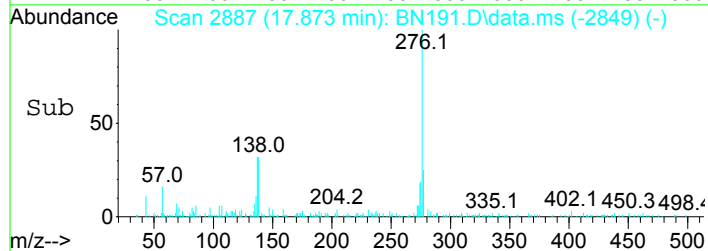
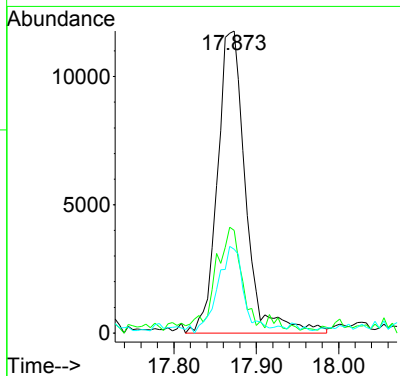
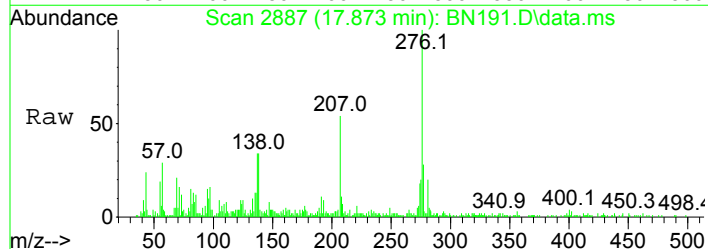
Tgt Ion	Resp	Lower	Upper
276	100		
138	21.2	7.0	47.0





#98  
 Benzo(g,h,i)perylene  
 Concen: 3.74 ppm  
 RT: 17.873 min Scan# 2887  
 Delta R.T. 0.005 min  
 Lab File: BN191.D  
 Acq: 22 Feb 2018 1:01 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	32.0	8.6	48.6
277	29.5	2.2	42.2



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN164.D  
 Acq On : 21 Feb 2018 4:19 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-01  
 Misc : 308593 8270D SOIL BLK  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 22 08:37:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.854	152	95614	40.00	ppm	0.00
33) d8-Naphthalene	6.015	136	350864	40.00	ppm	0.00
57) d10-Acenaphthene	7.716	164	178967	40.00	ppm	0.00
91) d10-Phenanthrene	9.187	188	314309	40.00	ppm	0.00
117) d12-Chrysene	12.498	240	321167	40.00	ppm	0.00
135) d12-Perylene	15.466	264	343047	40.00	ppm	0.00

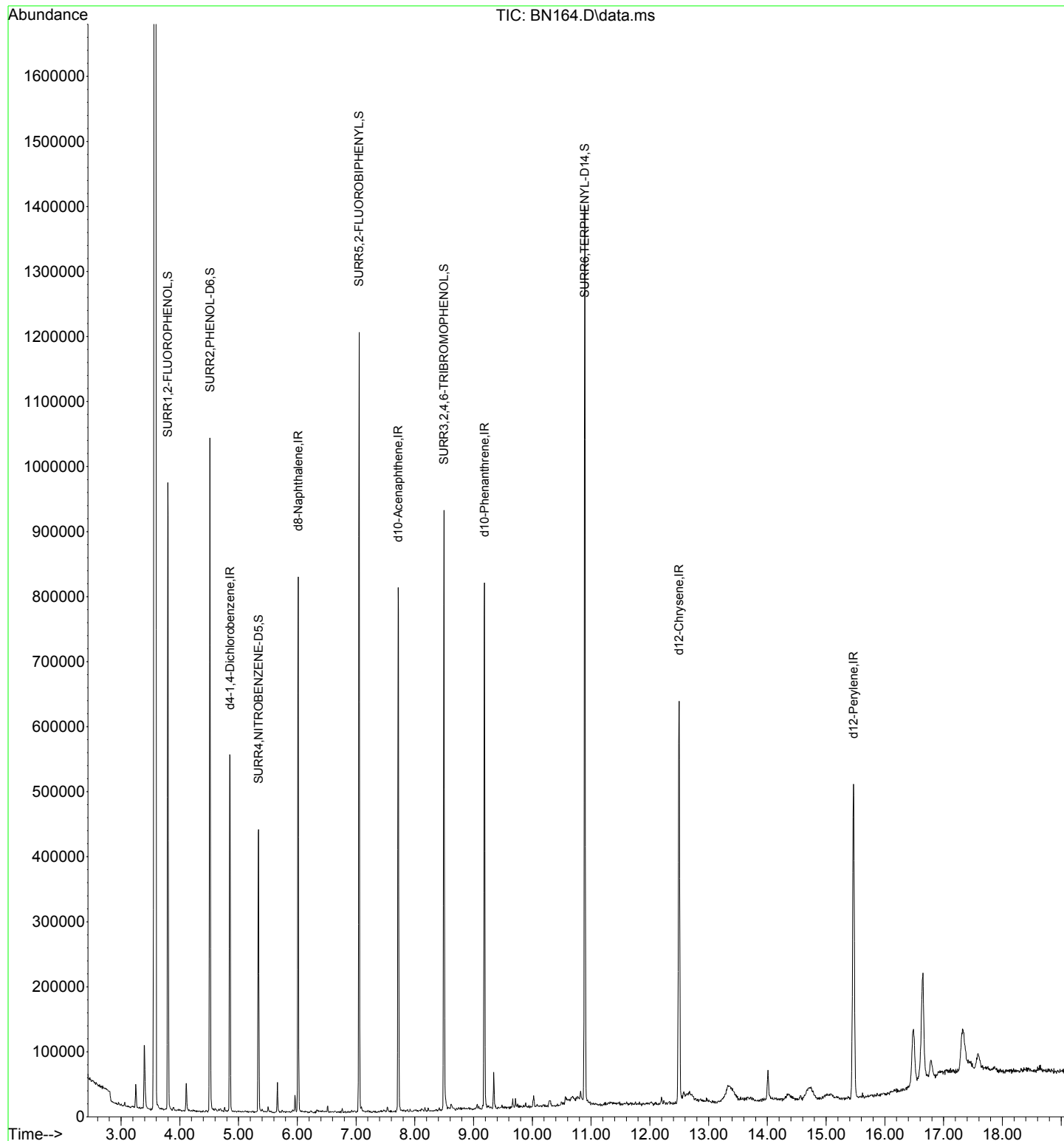
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.795	112	311293	104.83	ppm	0.00
Spiked Amount	200.000	Range	16 - 129	Recovery	=	52.41%
12) SURR2,PHENOL-D6	4.512	99	387984	110.74	ppm	0.00
Spiked Amount	200.000	Range	10 - 145	Recovery	=	55.37%
34) SURR4,NITROBENZENE-D5	5.341	82	158007	65.90	ppm	0.00
Spiked Amount	100.000	Range	11 - 91	Recovery	=	65.90%
63) SURR5,2-FLUOROBIPHENYL	7.053	172	357103	57.06	ppm	0.00
Spiked Amount	100.000	Range	14 - 102	Recovery	=	57.06%
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	120282	126.90	ppm	0.00
Spiked Amount	200.000	Range	10 - 109	Recovery	=	63.45%
124) SURR6,TERPHENYL-D14	10.893	244	523171	76.02	ppm	0.00
Spiked Amount	100.000	Range	16 - 120	Recovery	=	76.02%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN164.D  
Acq On : 21 Feb 2018 4:19 pm  
Operator : J.Misiurewicz  
Sample : RQ1801495-01  
Misc : 308593 8270D SOIL BLK  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 22 08:37:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN165.D  
 Acq On : 21 Feb 2018 4:47 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-02  
 Misc : 308593 8270D SOIL LCS  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 22 08:37:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	92805	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	366717	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	174592	40.00	ppm	0.00	
91) d10-Phenanthrene	9.187	188	301405	40.00	ppm	0.00	
117) d12-Chrysene	12.503	240	319163	40.00	ppm	0.00	
135) d12-Perylene	15.471	264	324770	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.795	112	286733	99.48	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	49.74%	
12) SURR2,PHENOL-D6	4.512	99	383920	112.89	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	56.45%	
34) SURR4,NITROBENZENE-D5	5.341	82	147131	58.71	ppm	0.00	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	58.71%	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	363863	59.60	ppm	0.00	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	59.60%	
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	154030	166.58	ppm	0.00	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	83.29%	
124) SURR6,TERPHENYL-D14	10.893	244	597356	87.34	ppm	0.00	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	87.34%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.886	79	88221	31.189	ppm		98
3) N-Nitrosodimethylamine	2.843	74	63612	45.098	ppm		100
10) Benzaldehyde	4.485	106	101406	54.057	ppm		99
11) Aniline	4.571	93	202814	40.251	ppm		98
13) Phenol	4.523	94	188046	54.912	ppm		94
14) bis(2-Clethyl)Ether	4.608	93	119759	46.019	ppm		95
16) 2-Chlorophenol	4.673	128	154039	52.912	ppm		98
17) 1,3-Diclbzene	4.806	146	135031	41.544	ppm		97
18) 1,4-Dichlorobenzene	4.865	146	137680	41.780	ppm		96
19) 1,2-Diclbzene	4.999	146	134197	42.349	ppm		96
20) Benzyl Alcohol	4.961	79	125941	57.640	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.074	45	151660	56.560	ppm		97
23) 2-Methylphenol	5.052	108	144535	55.957	ppm		98
24) 3+4-Methylphenol	5.186	108	153341	57.463	ppm		89
25) Acetophenone	5.202	105	380591	93.761	ppm		92
26) N-Nitroso-Di-n-propyla...	5.191	70	103334	51.427	ppm		83
30) Hexachloroethane	5.304	117	51694	39.416	ppm		96
32) Alpha-terpinol	6.036	121	64965	64.182	ppm		95
35) Nitrobenzene	5.357	77	132811	50.265	ppm		94
37) Isophorone	5.576	82	279424	53.285	ppm		97
38) 2-Nitrophenol	5.651	139	82571	65.670	ppm		99
39) Benzoic Acid	5.737	105	29226	16.272	ppm		91
40) 2,4-Dimethylphenol	5.683	107	173395	61.027	ppm		95
41) bis(-2-Chloroethoxy)Me...	5.769	93	179261	55.673	ppm		96
42) 2,4-Dichlorophenol	5.876	162	137152	62.606	ppm		96
44) 1,2,4-Trichlorobenzene	5.956	180	129391	48.534	ppm		99
45) Naphthalene	6.036	128	419731	47.858	ppm		100
46) 4-Chloroaniline	6.085	127	188345	45.931	ppm		99
48) Hexachlorobutadiene	6.143	225	73560	48.541	ppm		99
50) 4-Chloro-3-methylphenol	6.545	107	159719	69.940	ppm		98
52) Caprolactam	6.427	113	66953	80.685	ppm		96
55) 2-Methylnaphthalene	6.700	142	300456	53.394	ppm		97
56) 1-Methylnaphthalene	6.796	142	292701	55.033	ppm		99



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN165.D  
 Acq On : 21 Feb 2018 4:47 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-02  
 Misc : 308593 8270D SOIL LCS  
 ALS Vial : 20 Sample Multiplier: 1

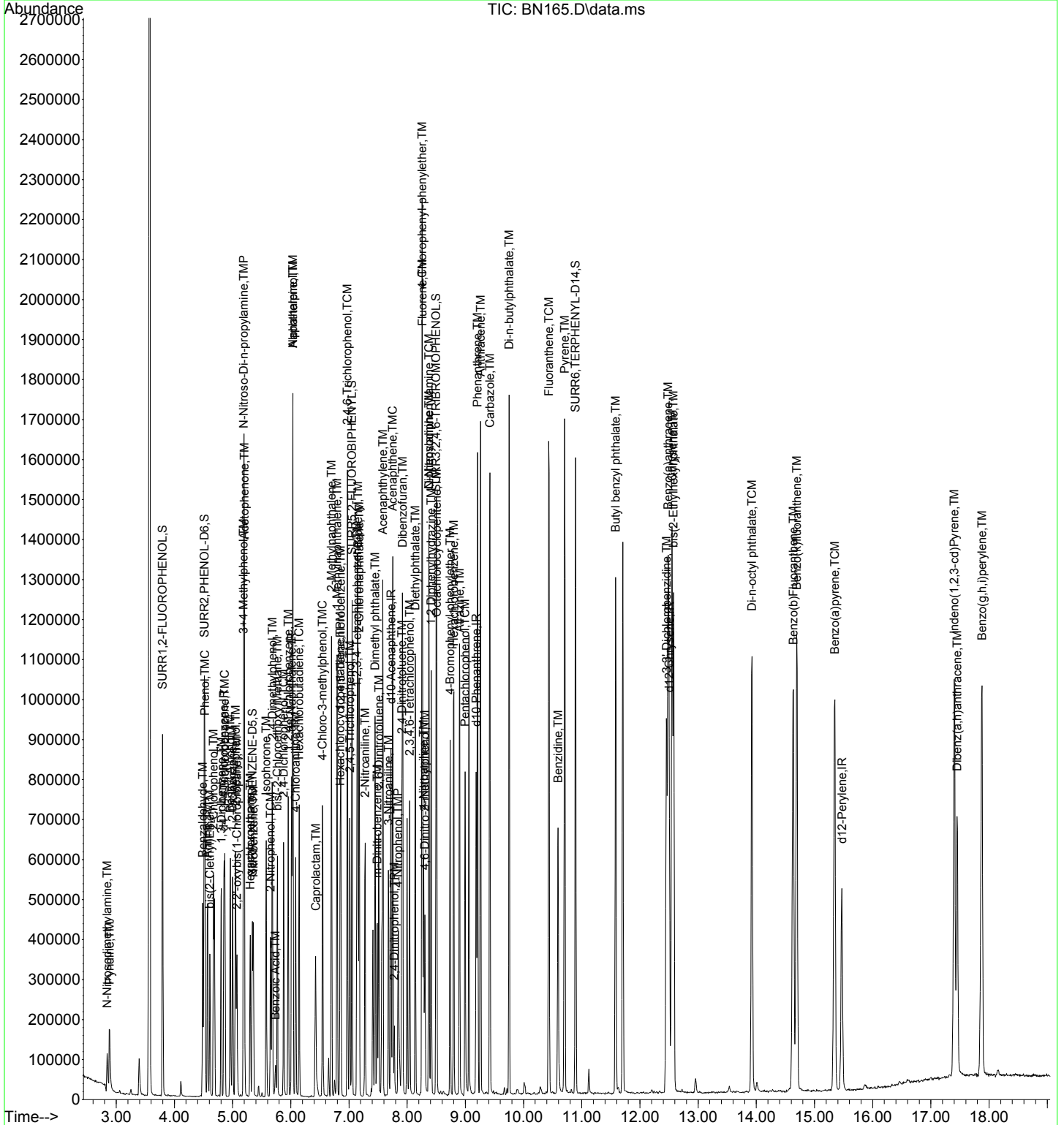
Quant Time: Feb 22 08:37:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Hexachlorocyclopentadiene	6.849	237	77887	53.634	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.860	216	138999	53.234	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.138	216	140557	55.937	ppm	99
61) 2,4,6-Trichlorophenol	6.972	196	104455	69.962	ppm	100
62) 2,4,5-Trichlorophenol	7.015	196	113085	74.236	ppm	99
65) 1,1'-Biphenyl	7.154	154	401835	59.864	ppm	97
66) 2-Chloronaphthalene	7.176	162	299831	57.335	ppm	97
67) 2-Nitroaniline	7.277	65	95387	81.090	ppm	92
69) m-Dinitrobenzene	7.486	168	64398	90.240	ppm	77
70) Acenaphthylene	7.582	152	538449	66.954	ppm	99
71) Dimethyl phthalate	7.448	163	387936	66.029	ppm	100
72) 2,6-Dinitrotoluene	7.513	165	96419	89.223	ppm	78
73) Acenaphthene	7.753	153	335985	60.722	ppm	97
74) 3-Nitroaniline	7.678	138	102218	76.949	ppm	97
75) 2,4-Dinitrophenol	7.780	184	26290	65.468	ppm	98
76) Dibenzofuran	7.919	168	480796	66.651	ppm	99
77) 2,4-Dinitrotoluene	7.908	165	135187	90.150	ppm	96
78) 4-Nitrophenol	7.844	65	79555	95.547	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.042	232	91723	80.358	ppm	97
83) Fluorene	8.261	166	393794	67.930	ppm	98
84) 4-Chlorophenyl-phenyle...	8.256	204	183155	70.097	ppm	96
85) Diethylphthalate	8.138	149	409518	69.287	ppm	99
86) 4-Nitroaniline	8.283	138	133352	85.414	ppm	96
90) Octachlorocyclopentene	8.508	307	62247	69.170	ppm	92
93) 4,6-Dinitro-2-methylph...	8.304	198	65307	88.199	ppm	87
94) Diphenylamine	8.374	169	341449	81.085	ppm	99
95) 1,2 Diphenylhydrazine	8.411	77	393133	71.643	ppm	98
96) N-Nitrosodiphenylamine	8.374	169	341449	81.085	ppm	99
101) 4-Bromophenyl-phenylether	8.738	248	107560	74.510	ppm	97
102) Hexachlorobenzene	8.802	284	146189	79.222	ppm	94
104) Atrazine	8.903	215	70915	88.680	ppm	98
105) Pentachlorophenol	8.994	266	97402	92.965	ppm	97
111) Phenanthrene	9.208	178	612621	80.950	ppm	100
112) Anthracene	9.262	178	634280	84.744	ppm	98
113) Carbazole	9.422	167	690376	90.287	ppm	98
114) Di-n-butylphthalate	9.754	149	822016	85.814	ppm	99
116) Fluoranthene	10.433	202	768368	94.625	ppm	98
122) Benzidine	10.593	184	313497	57.154	ppm	97
123) Pyrene	10.706	202	798809	87.084	ppm	99
128) Butyl benzyl phthalate	11.583	149	407378	86.693	ppm	97
131) 3,3'-Dichlorobenzidine	12.455	252	296897	73.823	ppm	99
132) Benzo(a)anthracene	12.487	228	778552	89.234	ppm	99
133) Chrysene	12.551	228	743356	89.499	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.578	149	587005	88.552	ppm	99
136) Di-n-octyl phthalate	13.926	149	1003717	83.802	ppm	99
138) Benzo(b)Fluoranthene	14.637	252	801299	85.558	ppm	96
139) Benzo(k)fluoranthene	14.696	252	788856	87.488	ppm	100
140) Benzo(a)pyrene	15.348	252	749804	94.117	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.402	276	713367	102.422	ppm	98
143) Dibenz(a,h)anthracene	17.450	278	435128	54.517	ppm	97
144) Benzo(g,h,i)perylene	17.878	276	748926	106.168	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN165.D  
Acq On : 21 Feb 2018 4:47 pm  
Operator : J.Misiurewicz  
Sample : RQ1801495-02  
Misc : 308593 8270D SOIL LCS  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 22 08:37:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN166.D  
 Acq On : 21 Feb 2018 5:14 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-03  
 Misc : 308593 8270D SOIL LCSD  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 22 08:37:24 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	80945	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	331229	40.00	ppm	0.00	
57) d10-Acenaphthene	7.716	164	158809	40.00	ppm	0.00	
91) d10-Phenanthrene	9.187	188	265400	40.00	ppm	0.00	
117) d12-Chrysene	12.503	240	283680	40.00	ppm	0.00	
135) d12-Perylene	15.466	264	292370	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.795	112	243125	96.71	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	48.35%	
12) SURR2,PHENOL-D6	4.512	99	327739	110.49	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	55.24%	
34) SURR4,NITROBENZENE-D5	5.341	82	123019	54.35	ppm	0.00	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	54.35%	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	328942	59.23	ppm	0.00	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	59.23%	
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	128254	152.48	ppm	0.00	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	76.24%	
124) SURR6,TERPHENYL-D14	10.893	244	477892	78.61	ppm	0.00	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	78.61%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.886	79	78011	31.621	ppm		97
3) N-Nitrosodimethylamine	2.849	74	56441	45.877	ppm		99
10) Benzaldehyde	4.485	106	89146	54.484	ppm		98
11) Aniline	4.571	93	171540	39.032	ppm		96
13) Phenol	4.523	94	165643	55.457	ppm		93
14) bis(2-Clethyl)Ether	4.608	93	103653	45.666	ppm		95
16) 2-Chlorophenol	4.673	128	130693	51.470	ppm		95
17) 1,3-Diclbzene	4.806	146	118847	41.922	ppm		98
18) 1,4-Dichlorobenzene	4.865	146	118431	41.204	ppm		98
19) 1,2-Diclbzene	4.999	146	119234	43.140	ppm		97
20) Benzyl Alcohol	4.956	79	110351	57.905	ppm		95
22) 2,2'-oxybis(1-Chloropr...	5.074	45	127565	54.545	ppm		95
23) 2-Methylphenol	5.047	108	126242	56.036	ppm		98
24) 3+4-Methylphenol	5.186	108	133980	57.564	ppm		85
25) Acetophenone	5.197	105	324993	91.795	ppm		99
26) N-Nitroso-Di-n-propyla...	5.191	70	89241	50.920	ppm	#	81
30) Hexachloroethane	5.304	117	46613	40.750	ppm		97
32) Alpha-terpinol	6.037	121	57995	65.691	ppm		91
35) Nitrobenzene	5.357	77	114578	48.011	ppm		92
37) Isophorone	5.577	82	249050	52.582	ppm		99
38) 2-Nitrophenol	5.651	139	68500	61.128	ppm		96
39) Benzoic Acid	5.737	105	28621	17.643	ppm		93
40) 2,4-Dimethylphenol	5.678	107	153645	59.870	ppm		97
41) bis(-2-Chloroethoxy)Me...	5.769	93	157026	53.993	ppm		97
42) 2,4-Dichlorophenol	5.876	162	122106	61.710	ppm		97
44) 1,2,4-Trichlorobenzene	5.956	180	110130	45.735	ppm		99
45) Naphthalene	6.037	128	365047	46.083	ppm		99
46) 4-Chloroaniline	6.085	127	172070	46.458	ppm		99
48) Hexachlorobutadiene	6.143	225	61212	44.720	ppm		93
50) 4-Chloro-3-methylphenol	6.545	107	143985	69.806	ppm		97
52) Caprolactam	6.422	113	54958	73.326	ppm		97
55) 2-Methylnaphthalene	6.700	142	269869	53.096	ppm		98
56) 1-Methylnaphthalene	6.796	142	267791	55.744	ppm		99

Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN166.D  
 Acq On : 21 Feb 2018 5:14 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-03  
 Misc : 308593 8270D SOIL LCSD  
 ALS Vial : 21 Sample Multiplier: 1

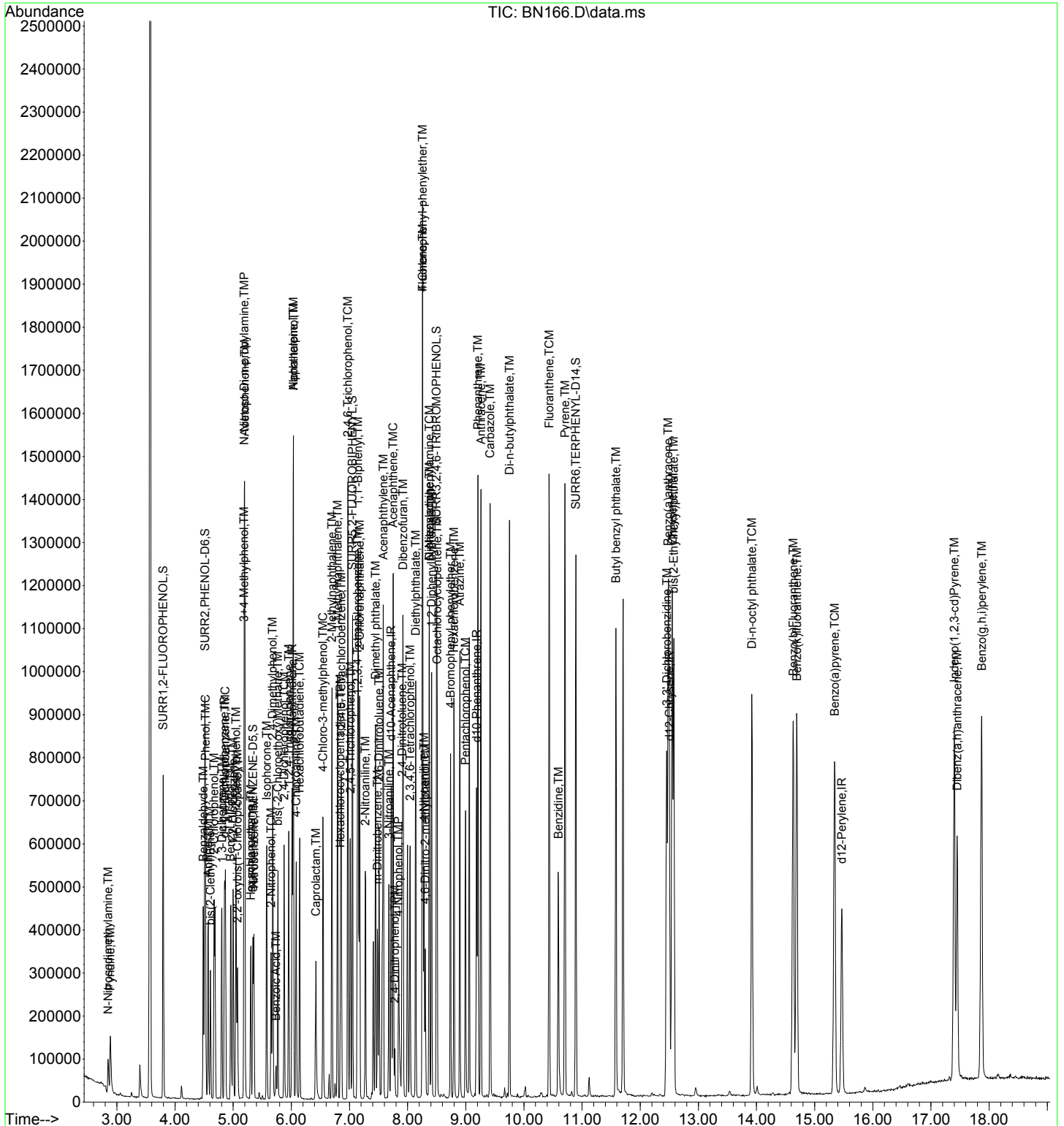
Quant Time: Feb 22 08:37:24 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Hexachlorocyclopentadiene	6.844	237	64783	49.044	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.860	216	125683	52.918	ppm	95
60) 1,2,3,4-Tetrachloroben...	7.138	216	126829	55.490	ppm	98
61) 2,4,6-Trichlorophenol	6.973	196	97965	72.136	ppm	99
62) 2,4,5-Trichlorophenol	7.015	196	104275	75.256	ppm	98
65) 1,1'-Biphenyl	7.149	154	369074	60.447	ppm	98
66) 2-Chloronaphthalene	7.176	162	278236	58.493	ppm	98
67) 2-Nitroaniline	7.272	65	86993	81.304	ppm	99
69) m-Dinitrobenzene	7.481	168	55981	87.241	ppm	90
70) Acenaphthylene	7.582	152	498374	68.129	ppm	99
71) Dimethyl phthalate	7.449	163	349449	65.389	ppm	99
72) 2,6-Dinitrotoluene	7.507	165	86845	88.350	ppm	93
73) Acenaphthene	7.753	153	310637	61.720	ppm	98
74) 3-Nitroaniline	7.679	138	87637	72.529	ppm	99
75) 2,4-Dinitrophenol	7.780	184	19066	55.357	ppm	97
76) Dibenzofuran	7.919	168	443506	67.592	ppm	99
77) 2,4-Dinitrotoluene	7.903	165	115042	85.691	ppm	96
78) 4-Nitrophenol	7.844	65	64770	85.521	ppm	90
82) 2,3,4,6-Tetrachlorophenol	8.042	232	76139	73.334	ppm	97
83) Fluorene	8.256	166	358951	68.073	ppm	99
84) 4-Chlorophenyl-phenyle...	8.256	204	168326	70.824	ppm	94
85) Diethylphthalate	8.139	149	350238	65.147	ppm	98
86) 4-Nitroaniline	8.283	138	110106	77.534	ppm	94
90) Octachlorocyclopentene	8.508	307	60873	74.366	ppm	98
93) 4,6-Dinitro-2-methylph...	8.304	198	50127	79.157	ppm	94
94) Diphenylamine	8.374	169	298996	80.636	ppm	98
95) 1,2 Diphenylhydrazine	8.411	77	353535	73.167	ppm	99
96) N-Nitrosodiphenylamine	8.374	169	298996	80.636	ppm	98
101) 4-Bromophenyl-phenylether	8.738	248	95097	74.814	ppm	99
102) Hexachlorobenzene	8.796	284	125370	77.157	ppm	96
104) Atrazine	8.898	215	58929	83.689	ppm	95
105) Pentachlorophenol	8.994	266	80111	86.835	ppm	98
111) Phenanthrene	9.208	178	527286	79.126	ppm	99
112) Anthracene	9.262	178	534772	81.142	ppm	99
113) Carbazole	9.417	167	572157	84.978	ppm	98
114) Di-n-butylphthalate	9.754	149	679359	80.543	ppm	100
116) Fluoranthene	10.433	202	632451	88.453	ppm	99
122) Benzidine	10.594	184	250337	51.348	ppm	98
123) Pyrene	10.706	202	660561	81.020	ppm	99
128) Butyl benzyl phthalate	11.583	149	334206	80.017	ppm	97
131) 3,3'-Dichlorobenzidine	12.455	252	253110	70.807	ppm	98
132) Benzo(a)anthracene	12.482	228	631030	81.373	ppm	99
133) Chrysene	12.551	228	615040	83.312	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.578	149	482859	81.952	ppm	98
136) Di-n-octyl phthalate	13.920	149	814643	76.709	ppm	98
138) Benzo(b)Fluoranthene	14.632	252	649314	77.013	ppm	95
139) Benzo(k)fluoranthene	14.696	252	649095	79.965	ppm	98
140) Benzo(a)pyrene	15.343	252	611216	85.223	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.402	276	595196	94.925	ppm	95
143) Dibenz(a,h)anthracene	17.451	278	381809	53.138	ppm	95
144) Benzo(g,h,i)perylene	17.873	276	622947	98.095	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN166.D  
Acq On : 21 Feb 2018 5:14 pm  
Operator : J.Misiurewicz  
Sample : RQ1801495-03  
Misc : 308593 8270D SOIL LCSD  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 22 08:37:24 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN192.D  
 Acq On : 22 Feb 2018 1:29 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-04  
 Misc : 308593 8270D SOIL R1334-014MS  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 22 14:33:01 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.854	152	98645	40.00	ppm	0.00	
24) d8-Naphthalene	6.015	136	426318	40.00	ppm	0.00	
42) d10-Acenaphthene	7.721	164	197188	40.00	ppm	0.00	
69) d10-Phenanthrene	9.187	188	332365	40.00	ppm	0.00	
82) d12-Chrysene	12.508	240	339436	40.00	ppm	0.00	
91) d12-Perylene	15.477	264	349098	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.795	112	258433	84.36	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	42.18%	
8) SURR2,PHENOL-D6	4.512	99	337222	93.29	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	46.65%	
25) SURR4,NITROBENZENE-D5	5.341	82	133782	45.92	ppm	0.00	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	45.92%	
48) SURR5,2-FLUOROBIPHENYL	7.053	172	341606	49.54	ppm	0.00	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	49.54%	
67) SURR3,2,4,6-TRIBROMOPH...	8.502	330	160244	153.44	ppm	0.00	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	76.72%	
85) SURR6,TERPHENYL-D14	10.898	244	607904	83.57	ppm	0.00	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	83.57%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.886	79	76557	25.463	ppm		99
3) N-Nitrosodimethylamine	2.843	74	56861	37.925	ppm		97
6) Benzaldehyde	4.485	106	90954	45.615	ppm		98
7) Aniline	4.571	93	164542	30.722	ppm		97
9) Phenol	4.528	94	166416	45.719	ppm		97
10) bis(2-Clethyl)Ether	4.608	93	110798	40.055	ppm		97
11) 2-Chlorophenol	4.673	128	134880	43.588	ppm		98
12) 1,3-Diclbzene	4.806	146	121465	35.158	ppm		99
13) 1,4-Dichlorobenzene	4.865	146	124987	35.682	ppm		97
14) 1,2-Diclbzene	4.999	146	122796	36.457	ppm		96
15) Benzyl Alcohol	4.961	79	110762	47.692	ppm		98
17) 2,2'-oxybis(1-Chloropr...	5.074	45	134563	47.213	ppm		98
18) 2-Methylphenol	5.052	108	124872	45.482	ppm		96
19) 3+4-Methylphenol	5.191	108	131119	46.227	ppm		92
20) Acetophenone	5.202	105	338291	78.406	ppm		94
21) N-Nitroso-Di-n-propyla...	5.191	70	92882	43.488	ppm	#	78
22) Hexachloroethane	5.304	117	48076	34.487	ppm		96
23) Alpha-terpinol	6.036	121	57314	53.271	ppm		91
26) Nitrobenzene	5.357	77	119780	38.996	ppm		96
27) Isophorone	5.576	82	255932	41.982	ppm		98
28) 2-Nitrophenol	5.651	139	71283	50.983	ppm		97
29) Benzoic Acid	5.742	105	23870	11.432	ppm		94
30) 2,4-Dimethylphenol	5.683	107	146702	44.414	ppm		95
31) bis(-2-Chloroethoxy)Me...	5.769	93	161843	43.237	ppm		96
32) 2,4-Dichlorophenol	5.881	162	120783	47.426	ppm		99
33) 1,2,4-Trichlorobenzene	5.956	180	118863	38.352	ppm		95
34) Naphthalene	6.036	128	383675	37.631	ppm		99
35) 4-Chloroaniline	6.085	127	167569	35.151	ppm		96
37) Hexachlorobutadiene	6.143	225	65124	36.966	ppm		93
38) 4-Chloro-3-methylphenol	6.550	107	161759	60.931	ppm		99
39) Caprolactam	6.427	113	65043	67.425	ppm		95
40) 2-Methylnaphthalene	6.700	142	276717	42.300	ppm		100
41) 1-Methylnaphthalene	6.796	142	268012	43.346	ppm		99



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN192.D  
 Acq On : 22 Feb 2018 1:29 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-04  
 Misc : 308593 8270D SOIL R1334-014MS  
 ALS Vial : 13 Sample Multiplier: 1

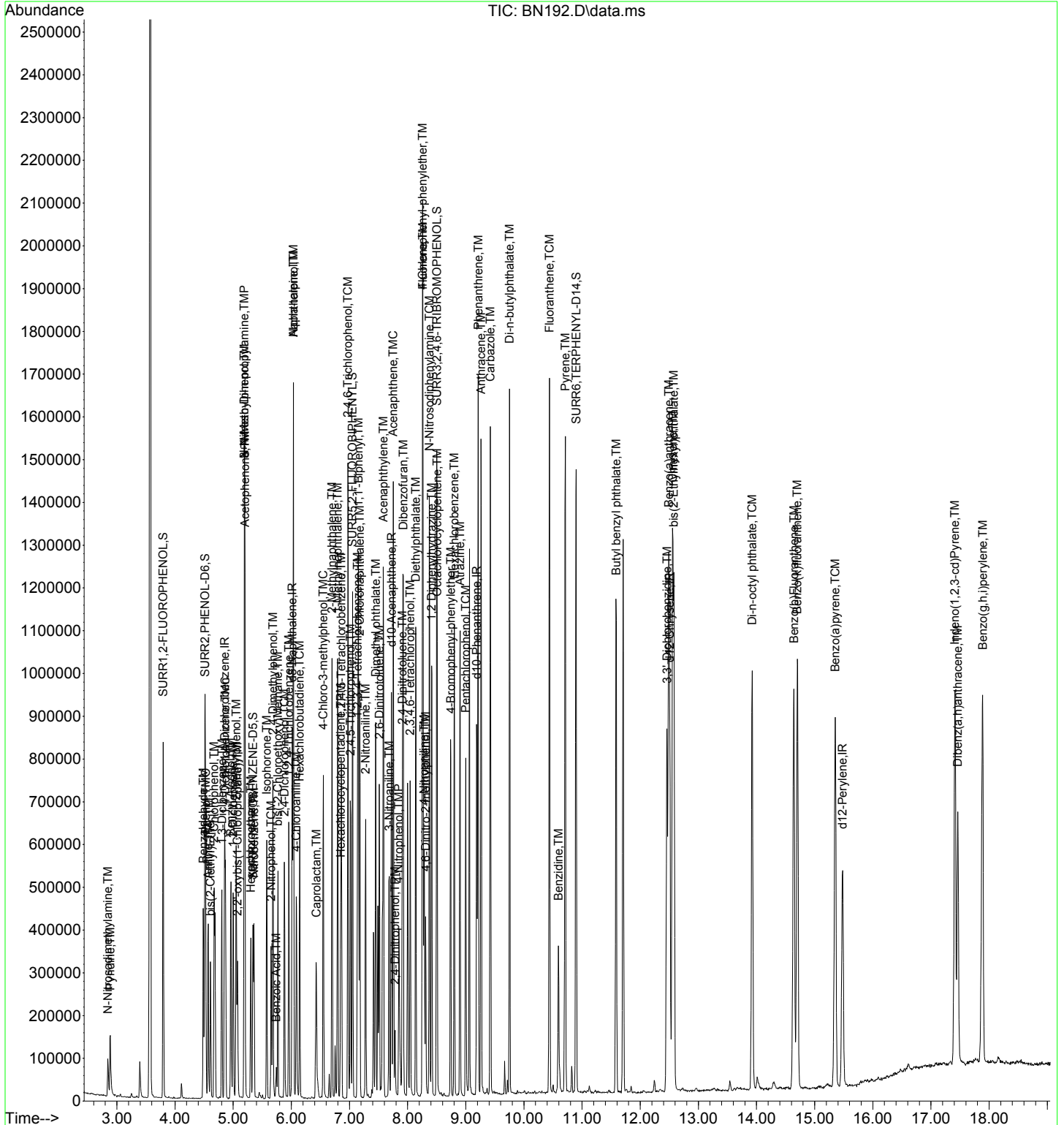
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 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.849	237	56591	34.504	ppm	97
44) 1,2,4,5-Tetrachloroben...	6.860	216	129734	43.992	ppm	96
45) 1,2,3,4-Tetrachloroben...	7.138	216	130102	45.843	ppm	97
46) 2,4,6-Trichlorophenol	6.972	196	106132	62.939	ppm	98
47) 2,4,5-Trichlorophenol	7.015	196	116535	67.735	ppm	95
49) 1,1'-Biphenyl	7.154	154	375310	49.505	ppm	98
50) 2-Chloronaphthalene	7.176	162	283442	47.990	ppm	98
51) 2-Nitroaniline	7.277	65	98154	73.880	ppm	90
52) Acenaphthylene	7.582	152	533607	58.748	ppm	99
53) Dimethyl phthalate	7.454	163	402578	60.669	ppm	99
54) 2,6-Dinitrotoluene	7.513	165	96059	78.704	ppm	96
55) Acenaphthene	7.753	153	341214	54.600	ppm	96
56) 3-Nitroaniline	7.684	138	101871	67.900	ppm	94
57) 2,4-Dinitrophenol	7.785	184	25854	59.110	ppm	96
58) Dibenzofuran	7.925	168	496157	60.899	ppm	100
59) 2,4-Dinitrotoluene	7.908	165	132133	80.713	ppm	96
60) 4-Nitrophenol	7.850	65	74556	79.282	ppm	97
62) 2,3,4,6-Tetrachlorophenol	8.042	232	91424	70.917	ppm	96
63) Fluorene	8.261	166	406607	62.103	ppm	99
64) 4-Chlorophenyl-phenyle...	8.256	204	188625	63.918	ppm	97
65) Diethylphthalate	8.138	149	417813	62.590	ppm	99
66) 4-Nitroaniline	8.283	138	124650	70.692	ppm	95
68) Octachlorocyclopentene	8.508	307	41639	40.968	ppm	97
70) 4,6-Dinitro-2-methylph...	8.310	198	62288	78.669	ppm	93
71) 1,2 Diphenylhydrazine	8.411	77	397149	65.633	ppm	98
72) N-Nitrosodiphenylamine	8.374	169	349459	75.257	ppm	99
73) 4-Bromophenyl-phenylether	8.743	248	111004	69.733	ppm	96
74) Hexachlorobenzene	8.802	284	147332	72.405	ppm	97
75) Atrazine	8.903	215	70555	80.012	ppm	93
76) Pentachlorophenol	9.000	266	92517	80.077	ppm	97
77) Phenanthrene	9.214	178	612216	73.361	ppm	100
78) Anthracene	9.262	178	628359	76.132	ppm	99
79) Carbazole	9.422	167	650047	77.094	ppm	98
80) Di-n-butylphthalate	9.754	149	791949	74.974	ppm	99
81) Fluoranthene	10.438	202	716198	79.984	ppm	99
83) Benzidine	10.593	184	164397	28.181	ppm	99
84) Pyrene	10.711	202	743727	76.237	ppm	99
86) Butyl benzyl phthalate	11.588	149	381704	76.378	ppm	93
87) 3,3'-Dichlorobenzidine	12.460	252	279599	65.370	ppm	98
88) Benzo(a)anthracene	12.492	228	701316	75.581	ppm	98
89) Chrysene	12.556	228	685588	77.614	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.578	149	538782	76.423	ppm	100
92) Di-n-octyl phthalate	13.926	149	913030	72.651	ppm	98
93) Benzo(b)Fluoranthene	14.642	252	712077	70.733	ppm	97
94) Benzo(k)fluoranthene	14.701	252	715248	73.796	ppm	99
95) Benzo(a)pyrene	15.354	252	663642	77.497	ppm	99
96) Indeno(1,2,3-cd)Pyrene	17.413	276	642050	85.758	ppm	94
97) Dibenz(a,h)anthracene	17.461	278	406856	47.422	ppm	98
98) Benzo(g,h,i)perylene	17.889	276	662090	87.317	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN192.D  
Acq On : 22 Feb 2018 1:29 pm  
Operator : J.Misiurewicz  
Sample : RQ1801495-04  
Misc : 308593 8270D SOIL R1334-014MS  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 22 14:33:01 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN193.D  
 Acq On : 22 Feb 2018 1:57 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-05  
 Misc : 308593 8270D SOIL R1334-014MSD  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 22 14:33:48 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.854	152	91746	40.00	ppm	0.00	
24) d8-Naphthalene	6.015	136	386844	40.00	ppm	0.00	
42) d10-Acenaphthene	7.721	164	181674	40.00	ppm	0.00	
69) d10-Phenanthrene	9.187	188	309167	40.00	ppm	0.00	
82) d12-Chrysene	12.508	240	326174	40.00	ppm	0.00	
91) d12-Perylene	15.482	264	332217	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.795	112	220313	77.32	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	38.66%	
8) SURR2,PHENOL-D6	4.517	99	299366	89.05	ppm	0.01	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	44.52%	
25) SURR4,NITROBENZENE-D5	5.341	82	109296	41.34	ppm	0.00	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	41.34%	
48) SURR5,2-FLUOROBIPHENYL	7.053	172	300105	47.24	ppm	0.00	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	47.24%	
67) SURR3,2,4,6-TRIBROMOPH...	8.502	330	143604	149.25	ppm	0.00	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	74.63%	
85) SURR6,TERPHENYL-D14	10.898	244	545520	78.05	ppm	0.00	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	78.05%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.886	79	68435	24.473	ppm		92
3) N-Nitrosodimethylamine	2.843	74	49625	35.588	ppm		97
6) Benzaldehyde	4.485	106	74276	40.052	ppm		98
7) Aniline	4.571	93	145298	29.169	ppm		97
9) Phenol	4.528	94	148177	43.769	ppm		99
10) bis(2-Clethyl)Ether	4.608	93	90847	35.312	ppm		97
11) 2-Chlorophenol	4.673	128	119089	41.379	ppm		96
12) 1,3-Diclbzene	4.806	146	92685	28.845	ppm		99
13) 1,4-Dichlorobenzene	4.870	146	94306	28.948	ppm		97
14) 1,2-Diclbzene	4.999	146	94947	30.309	ppm		99
15) Benzyl Alcohol	4.961	79	97707	45.235	ppm		98
17) 2,2'-oxybis(1-Chloropr...	5.074	45	107612	40.596	ppm		98
18) 2-Methylphenol	5.052	108	113953	44.626	ppm		97
19) 3+4-Methylphenol	5.191	108	124492	47.191	ppm		91
20) Acetophenone	5.202	105	287438	71.630	ppm		94
21) N-Nitroso-Di-n-propyla...	5.191	70	81470	41.014	ppm	#	78
22) Hexachloroethane	5.304	117	37243	28.725	ppm		96
23) Alpha-terpinol	6.036	121	50869	50.836	ppm		94
26) Nitrobenzene	5.357	77	101706	36.490	ppm		98
27) Isophorone	5.576	82	219858	39.745	ppm		98
28) 2-Nitrophenol	5.651	139	62375	49.410	ppm		96
29) Benzoic Acid	5.748	105	30155	15.916	ppm		97
30) 2,4-Dimethylphenol	5.683	107	133119	44.414	ppm		97
31) bis(-2-Chloroethoxy)Me...	5.769	93	141521	41.665	ppm		95
32) 2,4-Dichlorophenol	5.881	162	111940	48.439	ppm		98
33) 1,2,4-Trichlorobenzene	5.956	180	97156	34.547	ppm		94
34) Naphthalene	6.036	128	316837	34.247	ppm		99
35) 4-Chloroaniline	6.090	127	147142	34.016	ppm		98
37) Hexachlorobutadiene	6.143	225	52675	32.951	ppm		99
38) 4-Chloro-3-methylphenol	6.550	107	131955	54.776	ppm		100
39) Caprolactam	6.427	113	58352	66.661	ppm		97
40) 2-Methylnaphthalene	6.700	142	241184	40.630	ppm		97
41) 1-Methylnaphthalene	6.796	142	233377	41.596	ppm		98

Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN193.D  
 Acq On : 22 Feb 2018 1:57 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801495-05  
 Misc : 308593 8270D SOIL R1334-014MSD  
 ALS Vial : 14 Sample Multiplier: 1

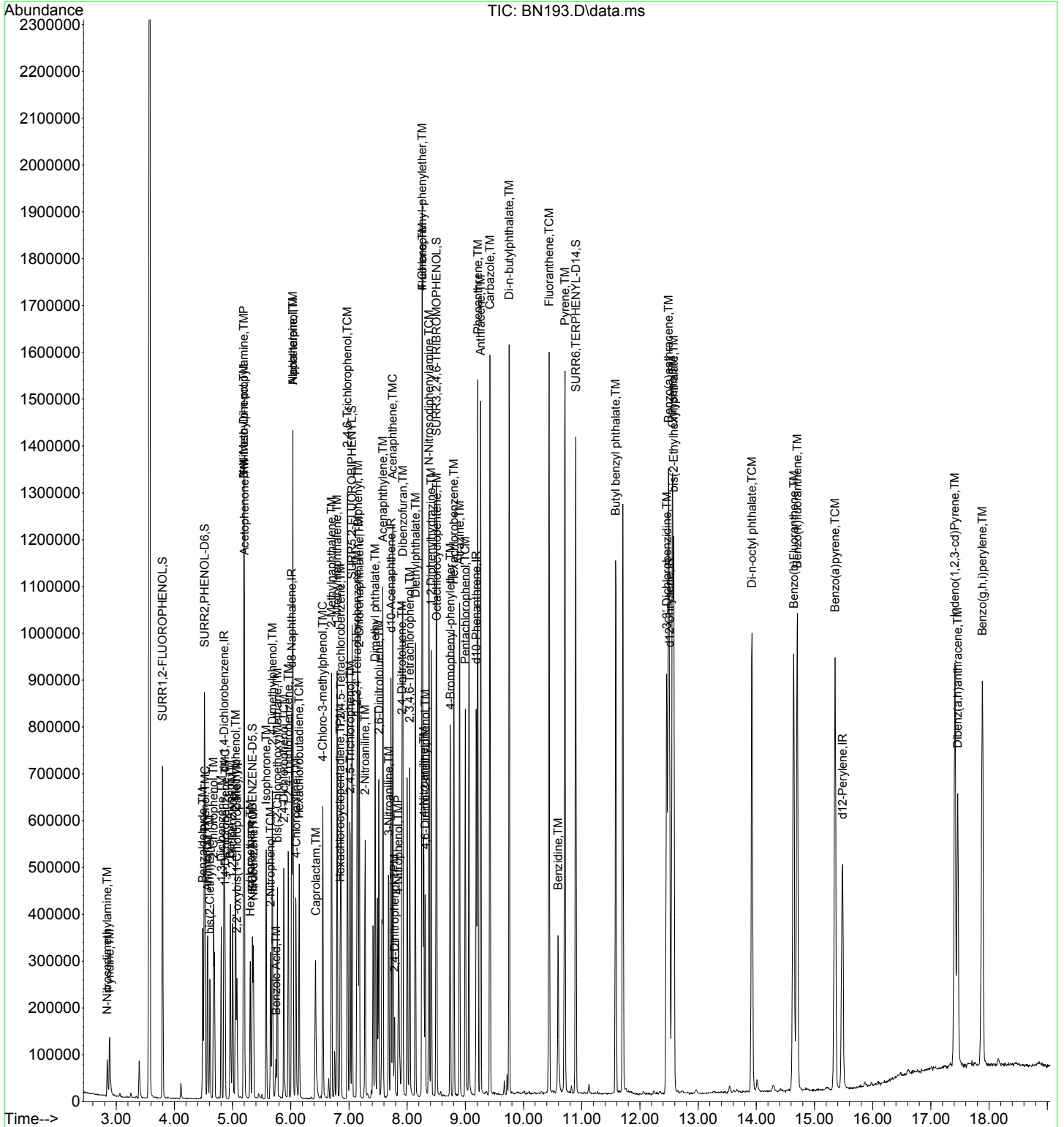
Quant Time: Feb 22 14:33:48 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.849	237	42134	27.883	ppm	100
44) 1,2,4,5-Tetrachloroben...	6.860	216	112014	41.227	ppm	97
45) 1,2,3,4-Tetrachloroben...	7.138	216	115290	44.093	ppm	100
46) 2,4,6-Trichlorophenol	6.972	196	92044	59.246	ppm	97
47) 2,4,5-Trichlorophenol	7.021	196	101253	63.878	ppm	97
49) 1,1'-Biphenyl	7.154	154	330508	47.318	ppm	97
50) 2-Chloronaphthalene	7.176	162	250267	45.991	ppm	98
51) 2-Nitroaniline	7.277	65	84714	69.209	ppm	94
52) Acenaphthylene	7.582	152	464290	55.482	ppm	99
53) Dimethyl phthalate	7.449	163	360585	58.981	ppm	99
54) 2,6-Dinitrotoluene	7.513	165	89479	79.573	ppm	92
55) Acenaphthene	7.753	153	294534	51.155	ppm	98
56) 3-Nitroaniline	7.684	138	93997	68.002	ppm	88
57) 2,4-Dinitrophenol	7.785	184	29208	68.681	ppm	94
58) Dibenzofuran	7.925	168	430302	57.326	ppm	100
59) 2,4-Dinitrotoluene	7.908	165	123833	81.782	ppm	97
60) 4-Nitrophenol	7.850	65	72219	83.355	ppm	93
62) 2,3,4,6-Tetrachlorophenol	8.042	232	85413	71.912	ppm	96
63) Fluorene	8.261	166	363074	60.189	ppm	97
64) 4-Chlorophenyl-phenyle...	8.256	204	168263	61.887	ppm	98
65) Diethylphthalate	8.144	149	382977	62.271	ppm	99
66) 4-Nitroaniline	8.288	138	120155	73.961	ppm	92
68) Octachlorocyclopentene	8.508	307	34872	37.240	ppm	98
70) 4,6-Dinitro-2-methylph...	8.310	198	62970	84.019	ppm	91
71) 1,2 Diphenylhydrazine	8.411	77	358285	63.653	ppm	99
72) N-Nitrosodiphenylamine	8.374	169	319336	73.930	ppm	99
73) 4-Bromophenyl-phenylether	8.743	248	101483	68.536	ppm	95
74) Hexachlorobenzene	8.802	284	135431	71.550	ppm	95
75) Atrazine	8.903	215	67210	81.937	ppm	98
76) Pentachlorophenol	9.000	266	100360	93.383	ppm	99
77) Phenanthrene	9.214	178	584934	75.351	ppm	98
78) Anthracene	9.262	178	590547	76.920	ppm	99
79) Carbazole	9.422	167	631850	80.559	ppm	99
80) Di-n-butylphthalate	9.754	149	769774	78.343	ppm	100
81) Fluoranthene	10.438	202	694839	83.422	ppm	100
83) Benzidine	10.594	184	154850	27.624	ppm	99
84) Pyrene	10.711	202	726377	77.486	ppm	100
86) Butyl benzyl phthalate	11.583	149	376072	78.310	ppm	98
87) 3,3'-Dichlorobenzidine	12.460	252	282748	68.794	ppm	98
88) Benzo(a)anthracene	12.492	228	702009	78.732	ppm	99
89) Chrysene	12.562	228	674842	79.503	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.583	149	531414	78.443	ppm	99
92) Di-n-octyl phthalate	13.926	149	903921	75.162	ppm	99
93) Benzo(b)Fluoranthene	14.642	252	706287	73.723	ppm	96
94) Benzo(k)fluoranthene	14.707	252	702675	76.183	ppm	98
95) Benzo(a)pyrene	15.354	252	660189	81.011	ppm	99
96) Indeno(1,2,3-cd)Pyrene	17.413	276	613482	86.106	ppm	96
97) Dibenz(a,h)anthracene	17.461	278	393918	48.247	ppm	98
98) Benzo(g,h,i)perylene	17.884	276	644165	89.270	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

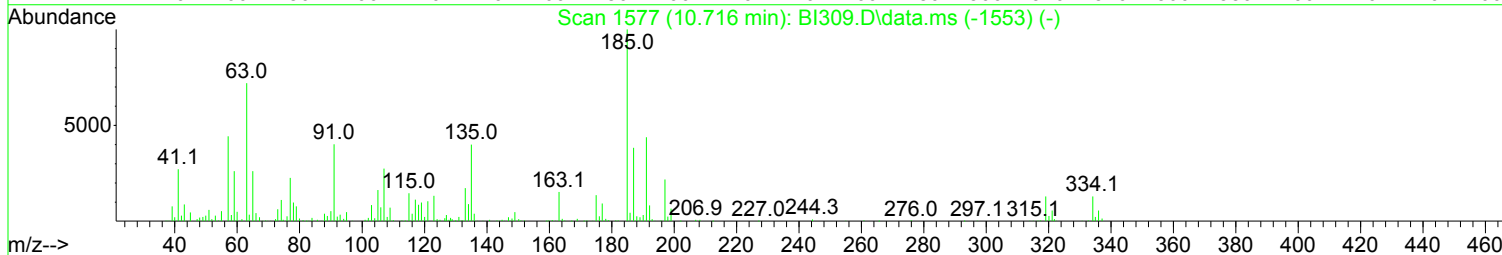
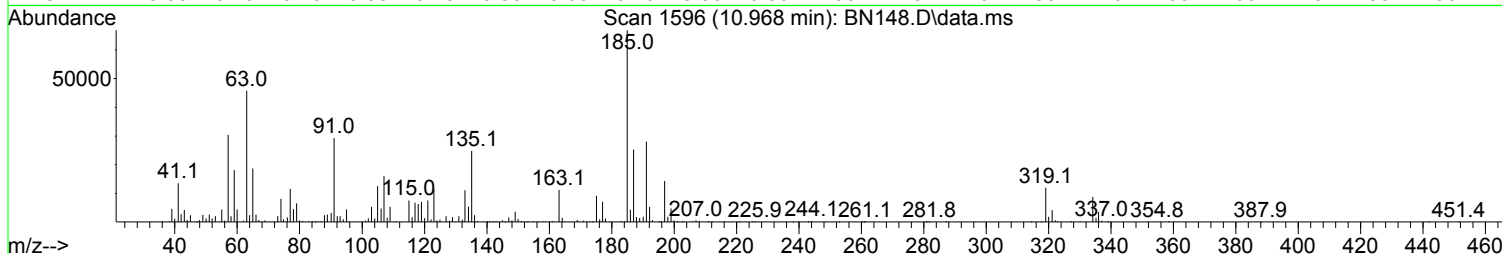
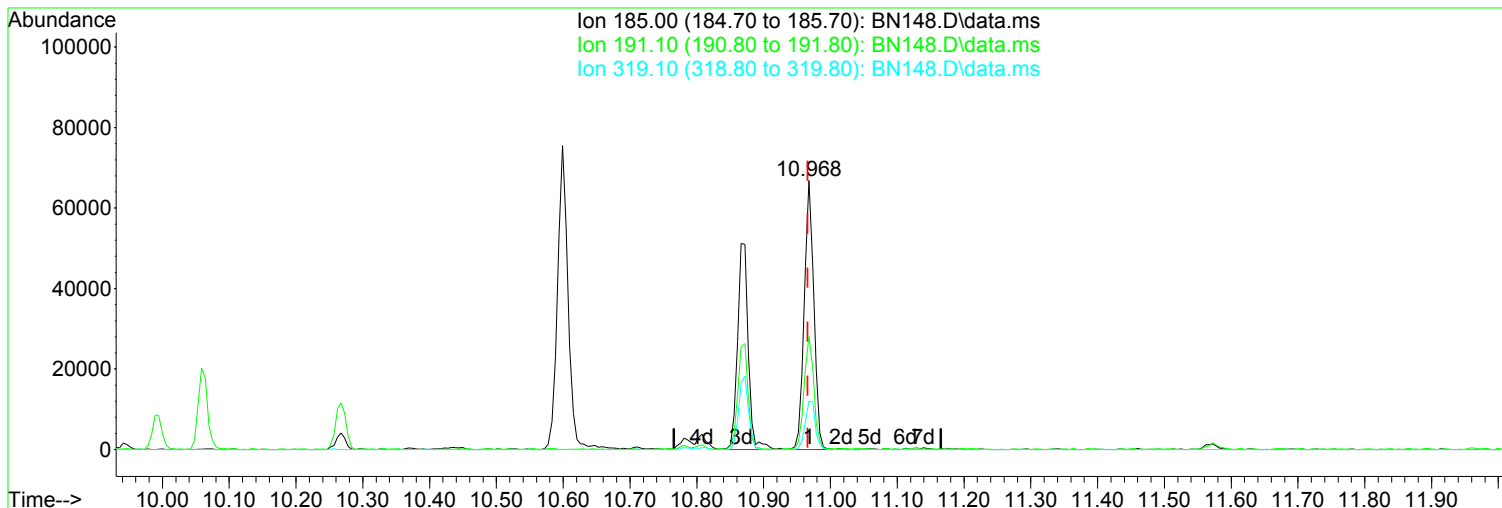
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Data File : BN193.D  
Acq On : 22 Feb 2018 1:57 pm  
Operator : J.Misiurewicz  
Sample : RQ1801495-05  
Misc : 308593 8270D SOIL R1334-014MSD  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 22 14:33:48 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN148.D  
 Acq On : 21 Feb 2018 8:30 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 08:50:00 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration



TIC: BN148.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.002) 87.19 ppm m

After

response 122970

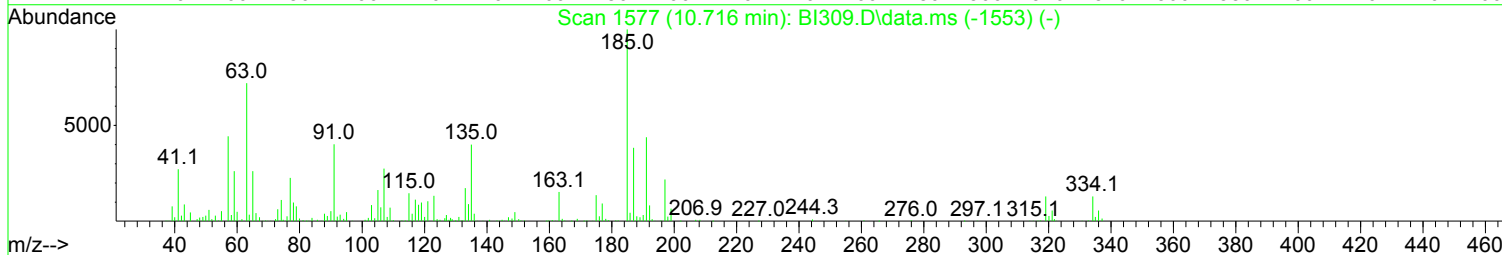
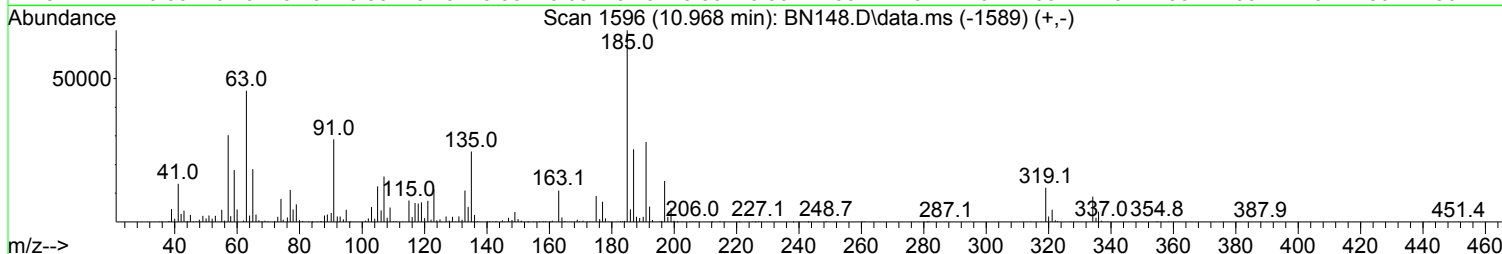
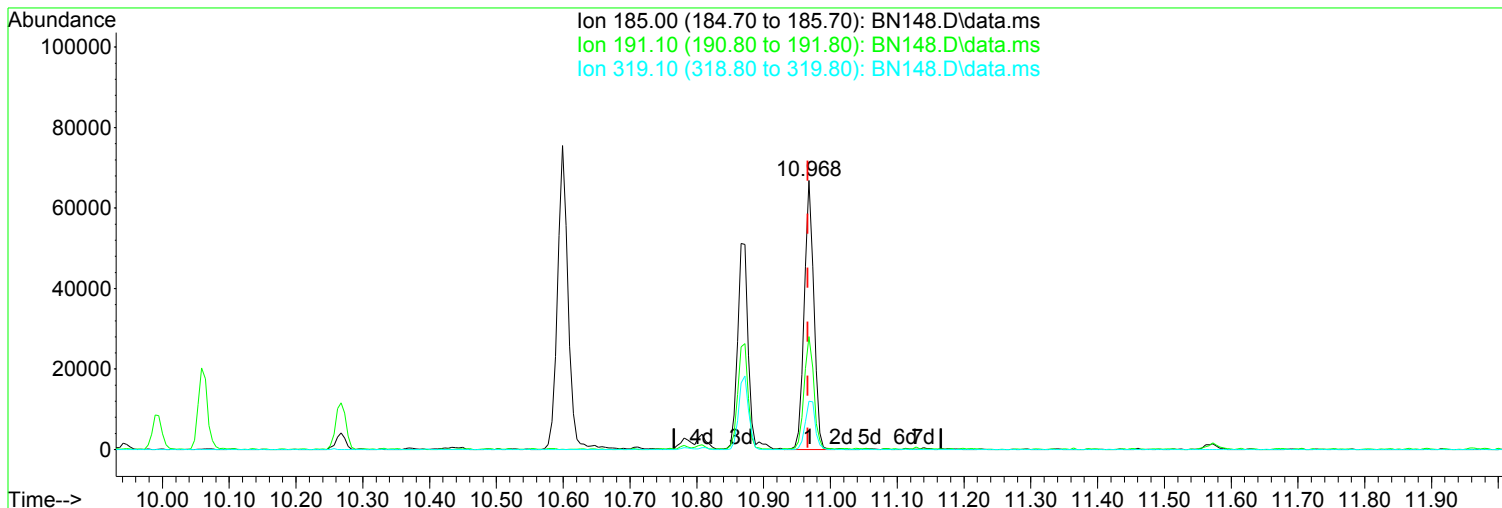
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	42.04
319.10	16.20	17.94
0.00	0.00	0.00

02/21/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN148.D  
Acq On : 21 Feb 2018 8:30 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 08:50:00 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



TIC: BN148.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.002) 46.95 ppm

Before

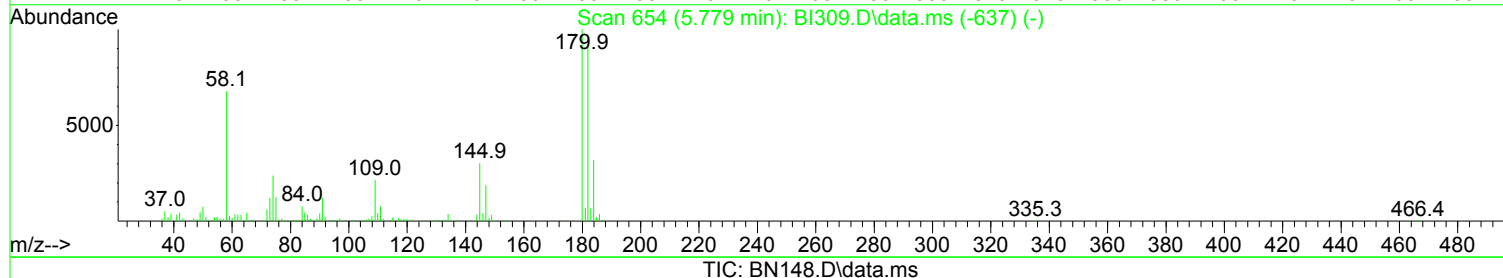
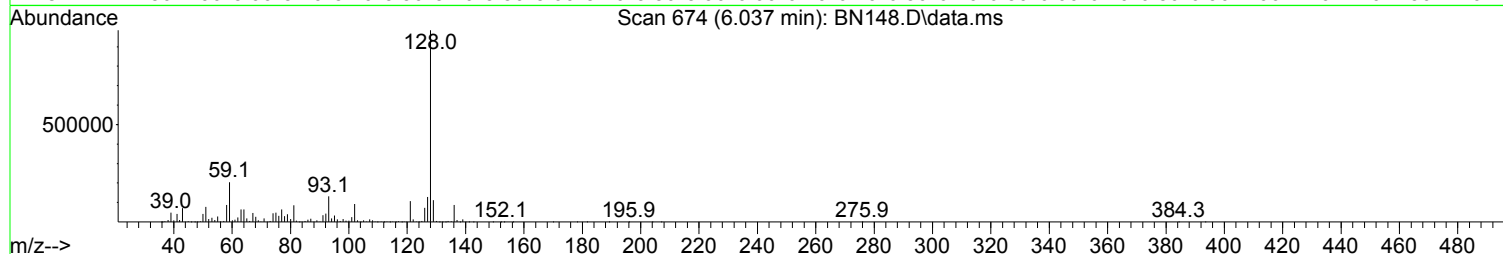
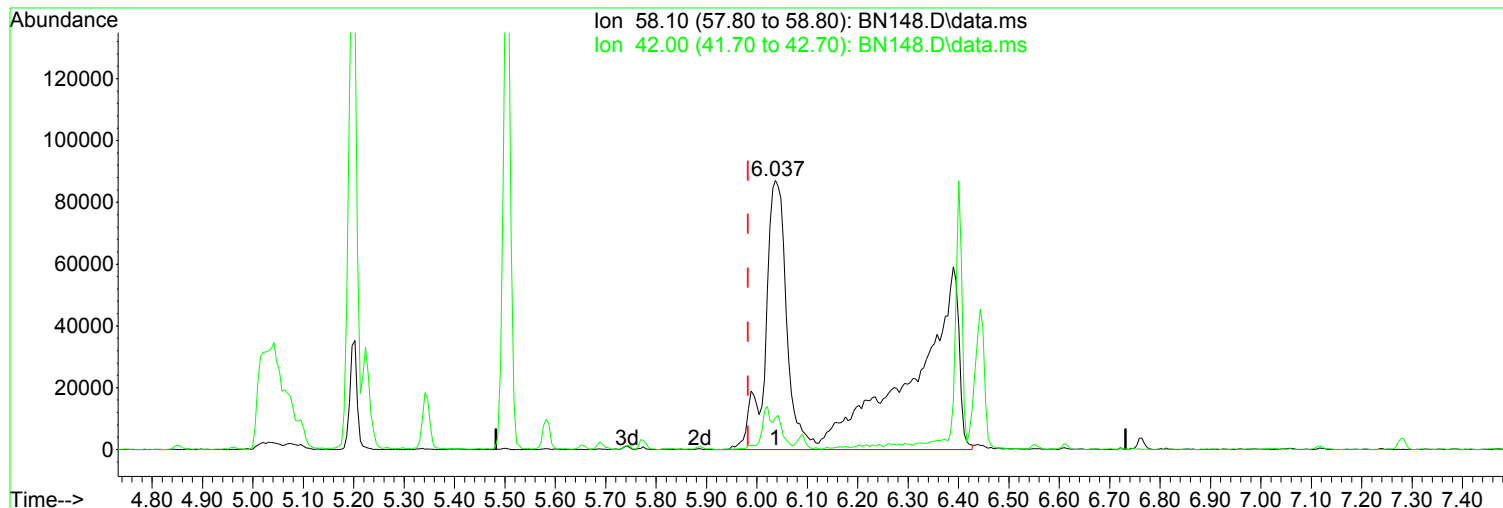
response 66214

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	41.76
319.10	16.20	17.94
0.00	0.00	0.00

02/21/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN148.D  
Acq On : 21 Feb 2018 8:30 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 08:50:00 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.037min (+ 0.054) 78.60 ppm m

After

response 625767

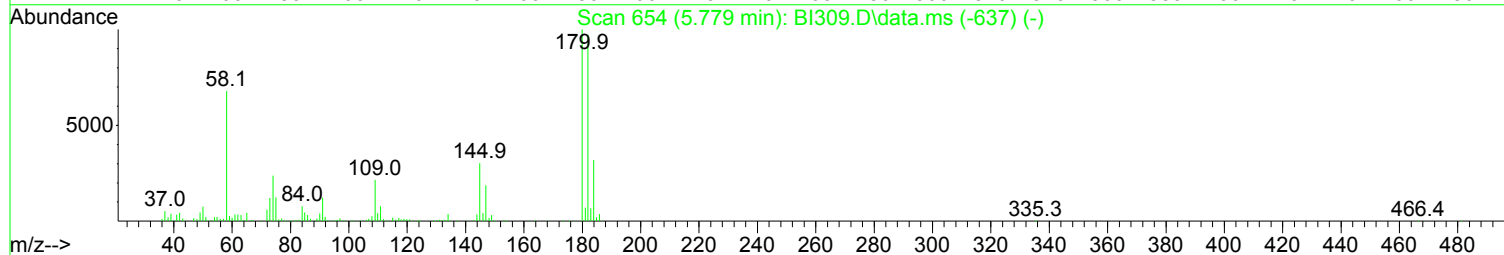
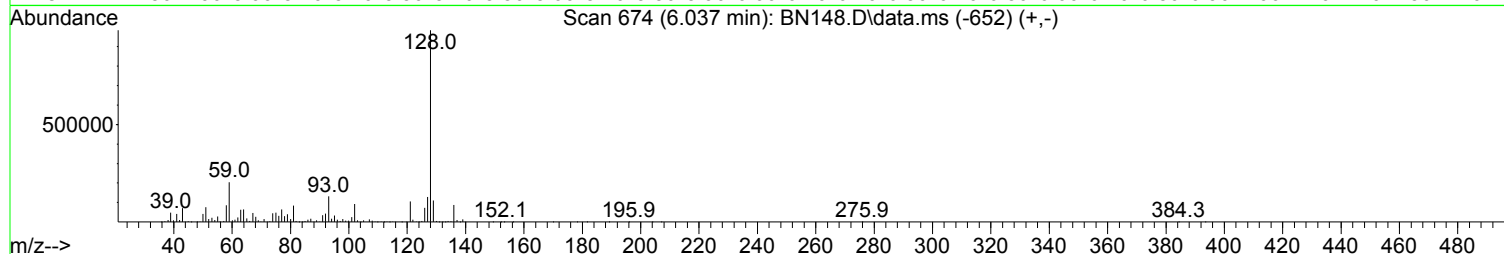
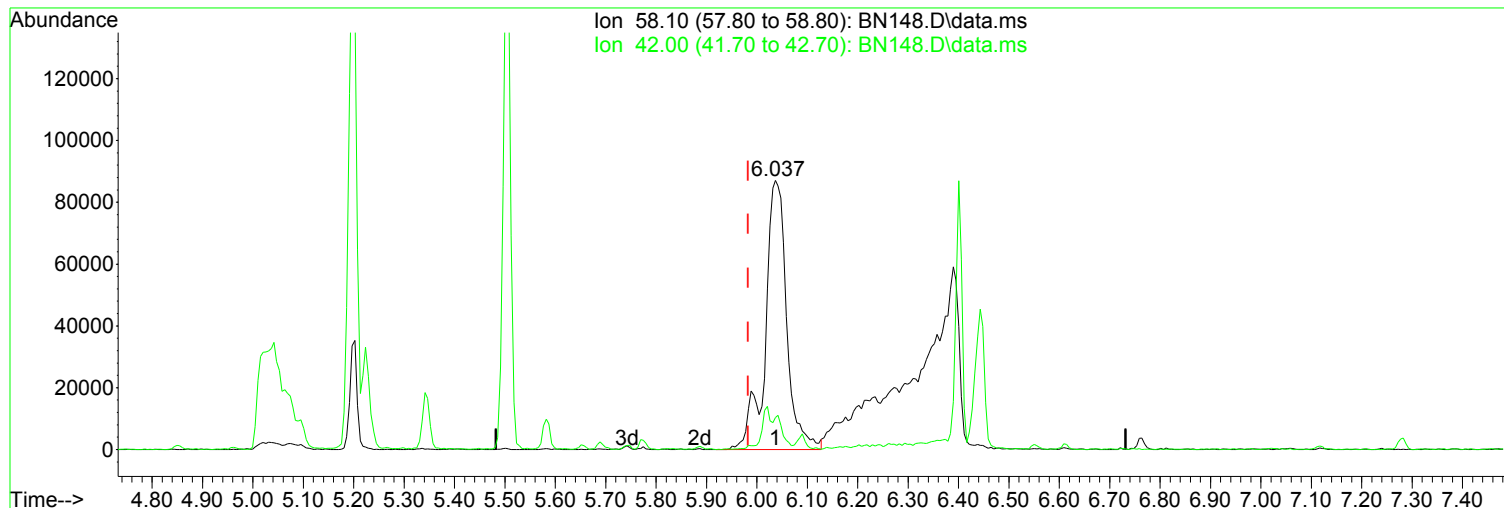
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	11.92
0.00	0.00	0.00
0.00	0.00	0.00

02/21/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN148.D  
Acq On : 21 Feb 2018 8:30 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 08:50:00 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.037min (+ 0.054) 32.46 ppm

Before

response 258405

Ion	Exp%	Act%	
58.10	100.00	100.00	02/21/18
42.00	15.00	12.08	
0.00	0.00	0.00	
0.00	0.00	0.00	

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	146	0.00
2	TM Pyridine	1.219	1.205		1.1	135	0.00
3	TM N-Nitrosodimethylamine	0.608	0.620		-2.0	142	0.00
4	TM 2-Picoline	1.290	1.259		2.4	141	0.00
5	TM N-Nitrosomethylamine	0.575	0.539		6.3	140	0.00
6	TM Methyl Methansulfonate	0.581	0.519		10.7	132	0.00
7	S SURR1,2-FLUOROPHENOL	1.242	1.209		2.7	139	0.00
8	TM N-Nitrosodiethylamine	0.641	0.640		0.2	140	0.00
9	TM Ethyl Mathanesulfonate	0.914	0.867		5.1	137	0.00
10	TM Benzaldehyde	0.809	0.500		38.2#	90	0.00
11	TM Aniline	2.172	2.071		4.7	135	0.00
12	S SURR2, PHENOL-D6	1.466	1.474		-0.5	141	0.00
13	TMC Phenol	1.476	1.464		0.8	141	0.00
14	TM bis(2-Clethyl)Ether	1.122	1.080		3.7	142	0.00
15	TM Pentachloroethane	0.466	0.453		2.8	141	0.00
16	TM 2-Chlorophenol	1.255	1.246		0.7	141	0.00
17	TM 1,3-Diclbzence	1.401	1.325		5.4	138	0.00
18	TMC 1,4-Dichlorobenzene	1.420	1.350		4.9	138	0.00
19	TM 1,2-Diclbzence	1.366	1.281		6.2	139	0.00
20	TM Benzyl Alcohol	0.942	0.947		-0.5	139	0.00
21	T 1-Methyl-2-pyrrolidinone	0.756	0.771		-2.0	140	0.03
22	TM 2,2'-oxybis(1-Chloropropane	1.156	1.098		5.0	136	0.00
23	TM 2-Methylphenol	1.113	1.084		2.6	140	0.01
24	TM 3+4-Methylphenol	1.150	1.166		-1.4	142	0.01
25	TM Acetophenone	1.750	1.615		7.7	134	0.00
26	TMP N-Nitroso-Di-n-propylamine	0.866	0.824		4.8	135	0.01
27	TM N-Nitrosopyrrolidine	0.613	0.615		-0.3	136	0.00
28	TM N-Nitrosomorpholine	0.644	0.617		4.2	136	0.00
29	TM o-Toluidine	1.936	1.831		5.4	138	0.00
30	TM Hexachloroethane	0.565	0.543		3.9	141	0.00
31	TM o,o,o-Triethylphosphorothio	0.575	0.558		3.0	142	0.00
32	TM Alpha-terpinol	0.436	0.433		0.7	143	0.00
33	IR d8-Naphthalene	1.000	1.000		0.0	143	0.00
34	S SURR4,NITROBENZENE-D5	0.273	0.309		-13.2	155	0.00
35	TM Nitrobenzene	0.288	0.322		-11.8	151	0.00
36	TM N-Nitrosopiperidine	0.178	0.169		5.1	135	0.00
37	TM Isophorone	0.572	0.563		1.6	139	0.00
38	TCM 2-Nitrophenol	0.137	0.172	-16.2	<del>-25.5</del>	167	0.00
39	TM Benzoic Acid	0.196	0.209		-6.6	155	0.03
40	TM 2,4-Dimethylphenol	0.310	0.312		-0.6	142	0.00
41	TM bis(-2-Chloroethoxy)Methane	0.351	0.342		2.6	137	0.00
42	TCM 2,4-Dichlorophenol	0.239	0.251		-5.0	141	0.00
43	TM a,a-Dimethylphenethylamine	0.630	0.619		1.7	136	0.05
44	TM 1,2,4-Trichlorobenzene	0.291	0.281		3.4	140	0.00
45	TM Naphthalene	0.957	0.898		6.2	136	0.00
46	TM 4-Chloroaniline	0.447	0.438		2.0	134	0.00
47	TM 2,6-Dichlorophenol	0.267	0.264		1.1	140	0.00
48	TCM Hexachlorobutadiene	0.165	0.160		3.0	138	0.00
49	TM Hexachloropropene	0.191	0.201		-5.2	148	0.00
50	TMC 4-Chloro-3-methylphenol	0.249	0.253		-1.6	138	0.00
51	TM N-N-di-n-butylamine	0.212	0.202		4.7	141	0.00



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 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
52 TM	Caprolactam	0.091	0.092		-1.1	138	0.02
53 TM	p-Phenylenediamine	0.012	0.008		33.3#	84	0.00
54 TM	Safrole	0.268	0.265		1.1	138	0.00
55 TM	2-Methylnaphthalene	0.614	0.599		2.4	138	0.00
56 TM	1-Methylnaphthalene	0.580	0.564		2.8	138	0.00
57 IR	d10-Acenaphthene	1.000	1.000		0.0	141	0.00
58 TPM	Hexachlorocyclopentadiene	0.333	0.336		-0.9	138	0.00
59 TM	1,2,4,5-Tetrachlorobenzene	0.598	0.571		4.5	139	0.00
60 TM	1,2,3,4-Tetrachlorobenzene	0.576	0.565		1.9	139	0.00
61 TCM	2,4,6-Trichlorophenol	0.342	0.364		-6.4	143	0.00
62 TM	2,4,5-Trichlorophenol	0.349	0.362		-3.7	148	0.01
63 S	SURR5,2-FLUOROBIPHENYL	1.399	1.330		4.9	137	0.00
64 TM	Isosafrole	0.235	0.231		1.7	137	0.00
65 TM	1,1'-Biphenyl	1.538	1.452		5.6	134	0.00
66 TM	2-Chloronaphthalene	1.198	1.134		5.3	138	0.00
67 TM	2-Nitroaniline	0.269	0.286		-6.3	153	0.01
68 TM	1,4-Naphthoquinone	0.371	0.355		4.3	131	0.00
69 TM	m-Dinitrobenzene	0.153	0.189	-14.8	<del>23.5#</del>	172	0.01
70 TM	Acenaphthylene	1.842	1.825		0.9	139	0.00
71 TM	Dimethyl phthalate	1.346	1.276		5.2	139	0.00
72 TM	2,6-Dinitrotoluene	0.248	0.284		-14.5	162	0.00
73 TMC	Acenaphthene	1.268	1.199		5.4	136	0.00
74 TM	3-Nitroaniline	0.304	0.325		-6.9	153	0.00
75 TPM	2,4-Dinitrophenol	0.099	0.119	-13.4	<del>20.2#</del>	173	0.00
76 TM	Dibenzofuran	1.653	1.575		4.7	135	0.00
77 TM	2,4-Dinitrotoluene	0.314	0.386	-12.5	<del>22.9#</del>	165	0.01
78 TMP	4-Nitrophenol	0.191	0.210		-9.9	152	0.02
79 TM	Pentachlorobenzene	0.527	0.498		5.5	135	0.00
80 TM	1-Naphthylamine	0.781	0.758		2.9	139	0.00
81 TM	2-Naphthylamine	1.058	1.011		4.4	135	0.00
82 TM	2,3,4,6-Tetrachlorophenol	0.262	0.275		-5.0	152	0.00
83 TM	Fluorene	1.328	1.233		7.2	135	0.00
84 TM	4-Chlorophenyl-phenylether	0.599	0.541		9.7	132	0.00
85 TM	Diethylphthalate	1.354	1.321		2.4	139	0.00
86 TM	4-Nitroaniline	0.358	0.358		0.0	134	0.01
87 TM	5-Nitro-o-toluidine	0.342	0.373		-9.1	152	0.01
88 S	SURR3,2,4,6-TRIBROMOPHENOL	0.212	0.218		-2.8	149	0.00
89 TM	Sulfotepp	0.202	0.204		-1.0	143	0.00
90 TM	Octachlorocyclopentene	0.206	0.218		-5.8	141	0.00
91 IR	d10-Phenanthrene	1.000	1.000		0.0	142	0.00
92 TM	Thionazin	0.118	0.115		2.5	138	0.00
93 TM	4,6-Dinitro-2-methylphenol	0.089	0.121	-19.8	<del>36.0#</del>	181	0.00
94 TM	Diphenylamine	0.559	0.517		7.5	138	0.00
95 TM	1,2 Diphenylhydrazine	0.728	0.657		9.8	135	0.00
96 TCM	N-Nitrosodiphenylamine	0.559	0.517		7.5	138	0.00
97 TM	1,3,5-Trinitrobenzene	0.051	0.065		-27.5#	182	0.02
98 TM	Diallate	0.253	0.236		6.7	137	0.00
99 TM	Phorate	0.123	0.128		-4.1	143	0.00
100 TM	Phenacetin	0.344	0.362		-5.2	139	0.01
101 TM	4-Bromophenyl-phenylether	0.192	0.176		8.3	137	0.00

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
102	TM Hexachlorobenzene	0.245	0.224		8.6	139	0.00
103	TM Dimethoate	0.218	0.237		-8.7	147	0.01
104	TM Atrazine	0.106	0.105		0.9	137	0.00
105	TCM Pentachlorophenol	0.139	0.156		-12.2	160	0.00
106	TM 4-Aminobiphenyl	0.718	0.700		2.5	132	0.00
107	TM Pentachloronitrobenzene	0.082	0.088		-7.3	150	0.00
108	TM Pronamide	0.316	0.321		-1.6	134	0.00
109	TM Dinoseb	0.137	0.167		-21.9#	186	0.00
110	TM Disulfoton	0.258	0.237		8.1	141	0.00
111	TM Phenanthrene	1.004	0.964		4.0	138	0.00
112	TM Anthracene	0.993	0.973		2.0	136	0.00
113	TM Carbazole	1.015	0.980		3.4	134	0.00
114	TM Di-n-butylphthalate	1.271	1.313		-3.3	138	0.00
115	TM 4-Nitroquinonline-1-oxide	0.081	0.087		-7.4	155	0.01
116	TCM Fluoranthene	1.078	1.062		1.5	134	0.00
117	IR d12-Chrysene	1.000	1.000		0.0	137	0.01
118	TM Methyl Parathion	0.172	0.217		-26.2#	177	0.00
119	TM Ethyl Parathion	0.124	0.152		-22.6#	170	0.00
120	TM Methapyrilene	0.215	0.190		11.6	117	0.00
121	TM Isodrin	0.113	0.118		-4.4	140	0.00
122	TM Benzidine	0.687	0.688		-0.1	128	0.00
123	TM Pyrene	1.150	1.145		0.4	137	0.00
124	S SURR6, TERPHENYL-D14	0.857	0.829		3.3	135	0.00
125	TM Aramite	0.130	0.142		-9.2	144	0.00
126	TM p-(Dimethylamino)azobenzene	0.332	0.335		-0.9	134	0.00
127	TM Chlorobenzilate	0.320	0.346		-8.1	143	0.00
128	TM Butyl benzyl phthalate	0.589	0.622		-5.6	138	0.00
129	TM 3,3-Dimethylbenzidine	0.791	0.733		7.3	122	0.00
130	TM 2-Acetylaminofluorene	0.428	0.488		-14.0	153	0.01
131	TM 3,3'-Dichlorobenzidine	0.504	0.516		-2.4	135	0.00
132	TM Benzo(a)anthracene	1.093	1.084		0.8	134	0.00
133	TM Chrysene	1.041	1.021		1.9	136	0.01
134	TM bis(2-Ethylhexyl)phthalate	0.831	0.898		-8.1	141	0.00
135	IR d12-Perylene	1.000	1.000		0.0	143	0.00
136	TCM Di-n-octyl phthalate	1.352	1.486	-1.3	<del>9.9</del>	144	0.00
137	TM 7,12-Dimethylbenz(a)anthrac	0.535	0.528		1.3	135	0.01
138	TM Benzo(b)Fluoranthene	1.154	1.152		0.2	135	0.01
139	TM Benzo(k)fluoranthene	1.111	1.096		1.4	136	0.01
140	TCM Benzo(a)pyrene	0.981	0.996		-1.5	140	0.02
141	TM 3-Methylcholanthrene	0.555	0.585		-5.4	142	0.01
142	TM Indeno(1,2,3-cd)Pyrene	0.858	0.904		-5.4	150	0.01
143	TM Dibenz(a,h)anthracene	0.983	0.989		-0.6	144	0.01
144	TM Benzo(g,h,i)perylene	0.869	0.906		-4.3	155	0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.855	152	130441	40.00	ppm	0.00
33) d8-Naphthalene	6.021	136	505166	40.00	ppm	0.00
57) d10-Acenaphthene	7.721	164	251820	40.00	ppm	0.00
91) d10-Phenanthrene	9.192	188	452809	40.00	ppm	0.00
117) d12-Chrysene	12.514	240	433493	40.00	ppm	0.01
135) d12-Perylene	15.477	264	435085	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.796	112	315367	77.85	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	38.92%
12) SURR2,PHENOL-D6	4.512	99	384595	80.46	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	40.23%
34) SURR4,NITROBENZENE-D5	5.341	82	312503	90.53	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	90.53%
63) SURR5,2-FLUOROBIPHENYL	7.058	172	669778	76.06	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	76.06%
88) SURR3,2,4,6-TRIBROMOPH...	8.502	330	110045	82.51	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	41.26%
124) SURR6,TERPHENYL-D14	10.899	244	718688	77.37	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	77.37%

Target Compounds						Qvalue
2) Pyridine	2.870	79	314263	79.047	ppm	96
3) N-Nitrosodimethylamine	2.838	74	161796	81.610	ppm	92
4) 2-Picoline	3.384	93	328526	78.067	ppm	99
5) N-Nitrosomethylamine	3.453	42	140610	74.925	ppm	98
6) Methyl Methansulfonate	3.673	80	135277	71.446	ppm	98
8) N-Nitrosodiethylamine	3.972	102	166846	79.786	ppm	100
9) Ethyl Mathanesulfonate	4.197	79	226121	75.854	ppm	98
10) Benzaldehyde	4.486	106	130483	49.488	ppm	99
11) Aniline	4.571	93	540226	76.280	ppm	96
13) Phenol	4.528	94	381946	79.353	ppm	99
14) bis(2-Clethyl)Ether	4.609	93	281770	77.034	ppm	97
15) Pentachloroethane	4.614	117	118228	77.817	ppm	97
16) 2-Chlorophenol	4.673	128	325118	79.455	ppm	99
17) 1,3-Diclbzene	4.806	146	345780	75.688	ppm	95
18) 1,4-Dichlorobenzene	4.865	146	352173	76.034	ppm	100
19) 1,2-Diclbzene	4.999	146	334178	75.031	ppm	98
20) Benzyl Alcohol	4.962	79	246959	80.416	ppm	99
21) 1-Methyl-2-pyrrolidinone	5.036	99	201177	81.558	ppm	98
22) 2,2'-oxybis(1-Chloropr...	5.074	45	286577	76.040	ppm	90
23) 2-Methylphenol	5.063	108	282855	77.911	ppm	95
24) 3+4-Methylphenol	5.202	108	304301	81.132	ppm	86
25) Acetophenone	5.202	105	421416	73.864	ppm	90
26) N-Nitroso-Di-n-propyla...	5.202	70	215081	76.156	ppm	94
27) N-Nitrosopyrrolidine	5.197	100	160543	80.279	ppm	82
28) N-Nitrosomorpholine	5.224	56	161056	76.747	ppm	92
29) o-Toluidine	5.234	106	477587	75.664	ppm	91
30) Hexachloroethane	5.304	117	141529	76.778	ppm	97
31) o,o,o-Triethylphosphor...	5.742	198	145584	77.594	ppm	96
32) Alpha-terpinol	6.042	121	112997	79.426	ppm	89
35) Nitrobenzene	5.363	77	325708	89.487	ppm	93
36) N-Nitrosopiperidine	5.502	42	171159	76.183	ppm	97
37) Isophorone	5.582	82	568616	78.716	ppm	98
38) 2-Nitrophenol	5.657	139	173564	92.940	ppm	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.785	105	211446	85.462	ppm	96
40) 2,4-Dimethylphenol	5.689	107	314874	80.449	ppm	94
41) bis(-2-Chloroethoxy)Me...	5.775	93	345125	77.810	ppm	98
42) 2,4-Dichlorophenol	5.887	162	253411	83.972	ppm	97
43) a,a-Dimethylphenethyla...	6.037	58	625767m	78.603	ppm	
44) 1,2,4-Trichlorobenzene	5.962	180	283747	77.263	ppm	99
45) Naphthalene	6.037	128	907716	75.133	ppm	99
46) 4-Chloroaniline	6.090	127	442738	78.378	ppm	99
47) 2,6-Dichlorophenol	6.095	162	266474	79.059	ppm	93
48) Hexachlorobutadiene	6.149	225	161711	77.465	ppm	97
49) Hexachloropropene	6.117	213	203183	84.217	ppm	96
50) 4-Chloro-3-methylphenol	6.550	107	255901	81.347	ppm	100
51) N-N-di-n-butylamine	6.400	84	204118	76.258	ppm	95
52) Caprolactam	6.443	113	93373	81.685	ppm	98
53) p-Phenylenediamine	6.443	80	8085	54.509	ppm	# 62
54) Safrole	6.614	162	268235	79.176	ppm	98
55) 2-Methylnaphthalene	6.705	142	605367	78.095	ppm	97
56) 1-Methylnaphthalene	6.801	142	569814	77.773	ppm	99
58) Hexachlorocyclopentadiene	6.850	237	169178	80.771	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.866	216	287821	76.425	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.138	216	284666	78.544	ppm	99
61) 2,4,6-Trichlorophenol	6.978	196	183270	85.105	ppm	96
62) 2,4,5-Trichlorophenol	7.021	196	182240	82.945	ppm	94
64) Isosafrole	7.117	104	116212	78.666	ppm	93
65) 1,1'-Biphenyl	7.154	154	731187	75.523	ppm	99
66) 2-Chloronaphthalene	7.181	162	571153	75.723	ppm	97
67) 2-Nitroaniline	7.283	65	143880	84.803	ppm	89
68) 1,4-Naphthoquinone	7.352	158	178649	76.475	ppm	96
69) m-Dinitrobenzene	7.491	168	95138	91.861	ppm	# 71
70) Acenaphthylene	7.588	152	919007	79.229	ppm	99
71) Dimethyl phthalate	7.454	163	642408	75.808	ppm	99
72) 2,6-Dinitrotoluene	7.513	165	143176	91.858	ppm	97
73) Acenaphthene	7.754	153	603851	75.664	ppm	97
74) 3-Nitroaniline	7.684	138	163863	85.525	ppm	99
75) 2,4-Dinitrophenol	7.791	184	59699	90.720	ppm	98
76) Dibenzofuran	7.925	168	793413	76.257	ppm	99
77) 2,4-Dinitrotoluene	7.914	165	194474	89.970	ppm	95
78) 4-Nitrophenol	7.861	65	105768	88.072	ppm	86
79) Pentachlorobenzene	7.882	250	250800	75.601	ppm	99
80) 1-Naphthylamine	8.005	143	381612	77.580	ppm	100
81) 2-Naphthylamine	8.085	143	509206	76.467	ppm	99
82) 2,3,4,6-Tetrachlorophenol	8.048	232	138587	84.179	ppm	98
83) Fluorene	8.262	166	621139	74.287	ppm	99
84) 4-Chlorophenyl-phenyle...	8.256	204	272700	72.360	ppm	99
85) Diethylphthalate	8.144	149	665220	78.033	ppm	99
86) 4-Nitroaniline	8.294	138	180098	79.979	ppm	95
87) 5-Nitro-o-toluidine	8.283	152	187709	87.310	ppm	98
89) Sulfotepp	8.529	322	102948	80.887	ppm	99
90) Octachlorocyclopentene	8.513	307	109605	84.443	ppm	99
92) Thionazin	8.230	107	104362	78.224	ppm	99
93) 4,6-Dinitro-2-methylph...	8.315	198	109219	95.872	ppm	94
94) Diphenylamine	8.379	169	937181	148.141	ppm	100
95) 1,2 Diphenylhydrazine	8.417	77	594811	72.152	ppm	100
96) N-Nitrosodiphenylamine	8.379	169	937181	148.141	ppm	100
97) 1,3,5-Trinitrobenzene	8.652	213	58914	102.825	ppm	85
98) Diallate	8.657	86	213804	74.580	ppm	95

Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN148.D  
 Acq On : 21 Feb 2018 8:30 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 21 08:50:00 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.668	121	115701	83.221	ppm	96
100) Phenacetin	8.695	108	327449	83.973	ppm	95
101) 4-Bromophenyl-phenylether	8.743	248	159268	73.440	ppm	97
102) Hexachlorobenzene	8.802	284	203248	73.315	ppm	97
103) Dimethoate	8.850	87	214727	87.107	ppm	99
104) Atrazine	8.909	215	94989	79.068	ppm	89
105) Pentachlorophenol	9.005	266	141684	90.014	ppm	97
106) 4-Aminobiphenyl	9.005	169	633738	77.994	ppm	99
107) Pentachloronitrobenzene	9.010	237	79577	85.575	ppm	98
108) Pronamide	9.059	173	290352	81.167	ppm	98
109) Dinoseb	9.176	211	151600	97.980	ppm	95
110) Disulfoton	9.182	88	214490	73.377	ppm	94
111) Phenanthrene	9.219	178	873182	76.801	ppm	99
112) Anthracene	9.267	178	880882	78.339	ppm	99
113) Carbazole	9.428	167	887580	77.265	ppm	99
114) Di-n-butylphthalate	9.759	149	1188872	82.613	ppm	100
115) 4-Nitroquinonline-1-oxide	9.995	190	78409	85.237	ppm	90
116) Fluoranthene	10.439	202	962145	78.870	ppm	98
118) Methyl Parathion	9.556	109	188112	100.766	ppm	97
119) Ethyl Parathion	9.941	97	131490	97.574	ppm	97
120) Methapyrilene	10.059	58	164903	70.785	ppm	99
121) Isodrin	10.267	193	102120	83.671	ppm	96
122) Benzidine	10.599	184	596486	80.066	ppm	99
123) Pyrene	10.711	202	992459	79.660	ppm	99
125) Aramite	10.968	185	122970m	87.186	ppm	
126) p-(Dimethylamino)azobe...	11.086	120	290124	80.696	ppm	98
127) Chlorobenzilate	11.145	139	300054	86.427	ppm	89
128) Butyl benzyl phthalate	11.589	149	539472	84.525	ppm	99
129) 3,3-Dimethylbenzidine	11.572	212	635236	74.120	ppm	100
130) 2-Acetylaminofluorene	11.974	181	423238	91.277	ppm	99
131) 3,3'-Dichlorobenzidine	12.466	252	446980	81.828	ppm	97
132) Benzo(a)anthracene	12.492	228	939970	79.321	ppm	99
133) Chrysene	12.562	228	885214	78.469	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.589	149	778505	86.467	ppm	98
136) Di-n-octyl phthalate	13.931	149	1293484	81.079	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.648	256	459277	78.853	ppm	95
138) Benzo(b)Fluoranthene	14.653	252	1002639	79.912	ppm	98
139) Benzo(k)fluoranthene	14.712	252	953606	78.944	ppm	99
140) Benzo(a)pyrene	15.359	252	866974	81.232	ppm	99
141) 3-Methylcholanthrene	16.113	268	509055	84.341	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.413	276	786760	84.319	ppm	100
143) Dibenz(a,h)anthracene	17.467	278	860418	80.469	ppm	96
144) Benzo(g,h,i)perylene	17.884	276	788746	83.463	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN182.D  
 Acq On : 22 Feb 2018 8:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 09:03:41 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	134	0.00
2	TM Pyridine	1.219	1.211		0.7	125	0.00
3	TM N-Nitrosodimethylamine	0.608	0.612		-0.7	129	0.00
4	S SURR1,2-FLUOROPHENOL	1.242	1.251		-0.7	132	0.00
5	TM N-Nitrosodiethylamine	0.641	0.664		-3.6	134	0.00
6	TM Benzaldehyde	0.809	0.785		3.0	130	0.00
7	TM Aniline	2.172	2.101		3.3	126	0.00
8	S SURR2,PHENOL-D6	1.466	1.489		-1.6	131	0.01
9	TMC Phenol	1.476	1.490		-0.9	132	0.00
10	TM bis(2-Clethyl)Ether	1.122	1.069		4.7	129	0.00
11	TM 2-Chlorophenol	1.255	1.293		-3.0	135	0.00
12	TM 1,3-Diclbzence	1.401	1.379		1.6	132	0.00
13	TMC 1,4-Dichlorobenzene	1.420	1.402		1.3	132	0.00
14	TM 1,2-Diclbzence	1.366	1.318		3.5	132	0.00
15	TM Benzyl Alcohol	0.942	0.973		-3.3	132	0.00
16	T 1-Methyl-2-pyrrolidinone	0.756	0.775		-2.5	129	0.03
17	TM 2,2'-oxybis(1-Chloropropane	1.156	1.117		3.4	128	0.00
18	TM 2-Methylphenol	1.113	1.105		0.7	132	0.01
19	TM 3+4-Methylphenol	1.150	1.183		-2.9	133	0.01
20	TM Acetophenone	1.750	1.644		6.1	126	0.00
21	TMP N-Nitroso-Di-n-propylamine	0.866	0.831		4.0	126	0.00
22	TM Hexachloroethane	0.565	0.555		1.8	133	0.00
23	TM Alpha-terpinol	0.436	0.436		0.0	133	0.00
24	IR d8-Naphthalene	1.000	1.000		0.0	134	0.00
25	S SURR4,NITROBENZENE-D5	0.273	0.316		-15.8	149	0.00
26	TM Nitrobenzene	0.288	0.317		-10.1	139	0.00
27	TM Isophorone	0.572	0.576		-0.7	133	0.00
28	TCM 2-Nitrophenol	0.137	0.181	-21.1	<del>-32.1</del>	164	0.00
29	TM Benzoic Acid	0.196	0.231		-17.9	160	0.03
30	TM 2,4-Dimethylphenol	0.310	0.316		-1.9	135	0.00
31	TM bis(-2-Chloroethoxy)Methane	0.351	0.342		2.6	129	0.00
32	TCM 2,4-Dichlorophenol	0.239	0.252		-5.4	132	0.00
33	TM 1,2,4-Trichlorobenzene	0.291	0.287		1.4	134	0.00
34	TM Naphthalene	0.957	0.921		3.8	131	0.00
35	TM 4-Chloroaniline	0.447	0.448		-0.2	128	0.00
36	TM 2,6-Dichlorophenol	0.267	0.273		-2.2	136	0.00
37	TCM Hexachlorobutadiene	0.165	0.163		1.2	132	0.00
38	TMC 4-Chloro-3-methylphenol	0.249	0.257		-3.2	131	0.01
39	TM Caprolactam	0.091	0.094		-3.3	132	0.02
40	TM 2-Methylnaphthalene	0.614	0.613		0.2	132	0.00
41	TM 1-Methylnaphthalene	0.580	0.570		1.7	131	0.00
42	IR d10-Acenaphthene	1.000	1.000		0.0	131	0.00
43	TPM Hexachlorocyclopentadiene	0.333	0.334		-0.3	128	0.00
44	TM 1,2,4,5-Tetrachlorobenzene	0.598	0.595		0.5	135	0.00
45	TM 1,2,3,4-Tetrachlorobenzene	0.576	0.566		1.7	130	0.00
46	TCM 2,4,6-Trichlorophenol	0.342	0.378		-10.5	138	0.00
47	TM 2,4,5-Trichlorophenol	0.349	0.370		-6.0	142	0.01
48	S SURR5,2-FLUOROBIPHENYL	1.399	1.383		1.1	133	0.00
49	TM 1,1'-Biphenyl	1.538	1.511		1.8	130	0.00
50	TM 2-Chloronaphthalene	1.198	1.173		2.1	133	0.00



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN182.D  
 Acq On : 22 Feb 2018 8:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 09:03:41 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
51	TM 2-Nitroaniline	0.269	0.294		-9.3	147	0.01
52	TM Acenaphthylene	1.842	1.866		-1.3	133	0.00
53	TM Dimethyl phthalate	1.346	1.314		2.4	133	0.00
54	TM 2,6-Dinitrotoluene	0.248	0.300		-21.0#	159	0.00
55	TMC Acenaphthene	1.268	1.250		1.4	133	0.00
56	TM 3-Nitroaniline	0.304	0.341		-12.2	150	0.01
57	TPM 2,4-Dinitrophenol	0.099	0.148	-32.1	<del>49.5#</del>	201#	0.00
58	TM Dibenzofuran	1.653	1.627		1.6	130	0.00
59	TM 2,4-Dinitrotoluene	0.314	0.409		<del>30.3#</del>	163	0.01
60	TMP 4-Nitrophenol	0.191	0.214		-12.0	144	0.02
61	TM Pentachlorobenzene	0.527	0.522		0.9	132	0.00
62	TM 2,3,4,6-Tetrachlorophenol	0.262	0.297		-13.4	153	0.00
63	TM Fluorene	1.328	1.308		1.5	133	0.00
64	TM 4-Chlorophenyl-phenylether	0.599	0.584		2.5	132	0.00
65	TM Diethylphthalate	1.354	1.366		-0.9	134	0.00
66	TM 4-Nitroaniline	0.358	0.375		-4.7	131	0.01
67	S SURR3,2,4,6-TRIBROMOPHENOL	0.212	0.235		-10.8	150	0.00
68	TM Octachlorocyclopentene	0.206	0.239		-16.0	144	0.00
69	IR dl0-Phenanthrene	1.000	1.000		0.0	137	0.00
70	TM 4,6-Dinitro-2-methylphenol	0.089	0.128	-17.6	<del>43.8#</del>	186	0.00
71	TM 1,2 Diphenylhydrazine	0.728	0.649		10.9	129	0.00
72	TCM N-Nitrosodiphenylamine	0.559	0.520		7.0	134	0.00
73	TM 4-Bromophenyl-phenylether	0.192	0.179		6.8	135	0.00
74	TM Hexachlorobenzene	0.245	0.234		4.5	140	0.00
75	TM Atrazine	0.106	0.103		2.8	130	0.00
76	TCM Pentachlorophenol	0.139	0.156		-12.2	154	0.00
77	TM Phenanthrene	1.004	0.977		2.7	135	0.00
78	TM Anthracene	0.993	0.989		0.4	134	0.00
79	TM Carbazole	1.015	1.001		1.4	132	0.00
80	TM Di-n-butylphthalate	1.271	1.320		-3.9	134	0.00
81	TCM Fluoranthene	1.078	1.101		-2.1	134	0.00
82	IR dl2-Chrysene	1.000	1.000		0.0	139	0.01
83	TM Benzidine	0.687	0.685		0.3	129	0.00
84	TM Pyrene	1.150	1.125		2.2	136	0.00
85	S SURR6,TERPHENYL-D14	0.857	0.832		2.9	137	0.00
86	TM Butyl benzyl phthalate	0.589	0.609		-3.4	137	0.00
87	TM 3,3'-Dichlorobenzidine	0.504	0.522		-3.6	139	0.00
88	TM Benzo(a)anthracene	1.093	1.101		-0.7	138	0.01
89	TM Chrysene	1.041	1.028		1.2	139	0.01
90	TM bis(2-Ethylhexyl)phthalate	0.831	0.864		-4.0	138	0.00
91	IR dl2-Perylene	1.000	1.000		0.0	143	0.00
92	TCM Di-n-octyl phthalate	1.352	1.499	-2.1	<del>10.9</del>	145	0.00
93	TM Benzo(b)fluoranthene	1.154	1.178		-2.1	137	0.02
94	TM Benzo(k)fluoranthene	1.111	1.112		-0.1	138	0.02
95	TCM Benzo(a)pyrene	0.981	1.015		-3.5	142	0.02
96	TM Indeno(1,2,3-cd)Pyrene	0.858	0.975		-13.6	161	0.02
97	TM Dibenz(a,h)anthracene	0.983	1.066		-8.4	155	0.02
98	TM Benzo(g,h,i)perylene	0.869	0.978		-12.5	167	0.02



Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN182.D  
Acq On : 22 Feb 2018 8:32 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 09:03:41 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range                      SPCC's out = 0    CCC's out = 1

Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN182.D  
 Acq On : 22 Feb 2018 8:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 09:03:41 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.849	152	120159	40.00	ppm	0.00
24) d8-Naphthalene	6.015	136	472998	40.00	ppm	0.00
42) d10-Acenaphthene	7.721	164	234832	40.00	ppm	0.00
69) d10-Phenanthrene	9.192	188	437108	40.00	ppm	0.00
82) d12-Chrysene	12.514	240	439272	40.00	ppm	0.01
91) d12-Perylene	15.482	264	432895	40.00	ppm	0.00

System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.795	112	300613	80.56	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	40.28%
8) SURR2,PHENOL-D6	4.517	99	357773	81.26	ppm	0.01
Spiked Amount	200.000	Range	10 - 107	Recovery	=	40.63%
25) SURR4,NITROBENZENE-D5	5.341	82	299182	92.56	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	92.56%
48) SURR5,2-FLUOROBIPHENYL	7.058	172	649658	79.11	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	79.11%
67) SURR3,2,4,6-TRIBROMOPH...	8.502	330	110137	88.55	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	44.27%
85) SURR6,TERPHENYL-D14	10.898	244	731131	77.67	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	77.67%

Target Compounds						Qvalue
2) Pyridine	2.870	79	290932	79.440	ppm	98
3) N-Nitrosodimethylamine	2.838	74	147018	80.502	ppm	97
5) N-Nitrosodiethylamine	3.972	102	159545	82.823	ppm	98
6) Benzaldehyde	4.485	106	188641	77.668	ppm	98
7) Aniline	4.571	93	504831	77.382	ppm	97
9) Phenol	4.528	94	358137	80.773	ppm	99
10) bis(2-Clethyl)Ether	4.608	93	256795	76.213	ppm	99
11) 2-Chlorophenol	4.672	128	310812	82.458	ppm	95
12) 1,3-Diclbzene	4.806	146	331509	78.774	ppm	99
13) 1,4-Dichlorobenzene	4.865	146	336826	78.943	ppm	98
14) 1,2-Diclbzene	4.999	146	316740	77.201	ppm	97
15) Benzyl Alcohol	4.961	79	233782	82.639	ppm	98
16) 1-Methyl-2-pyrrolidinone	5.036	99	186312	81.995	ppm	96
17) 2,2'-oxybis(1-Chloropr...	5.074	45	268429	77.319	ppm	89
18) 2-Methylphenol	5.063	108	265479	79.382	ppm	97
19) 3+4-Methylphenol	5.202	108	284352	82.301	ppm	85
20) Acetophenone	5.202	105	395161	75.189	ppm	89
21) N-Nitroso-Di-n-propyla...	5.197	70	199609	76.726	ppm	92
22) Hexachloroethane	5.304	117	133462	78.597	ppm	93
23) Alpha-terpinol	6.036	121	104858	80.012	ppm	99
26) Nitrobenzene	5.362	77	300113	88.063	ppm	90
27) Isophorone	5.582	82	544625	80.522	ppm	100
28) 2-Nitrophenol	5.651	139	171224	96.911	ppm	99
29) Benzoic Acid	5.785	105	218674	94.394	ppm	86
30) 2,4-Dimethylphenol	5.689	107	298782	81.529	ppm	93
31) bis(-2-Chloroethoxy)Me...	5.774	93	323610	77.921	ppm	96
32) 2,4-Dichlorophenol	5.887	162	238177	84.292	ppm	100
33) 1,2,4-Trichlorobenzene	5.956	180	271919	79.078	ppm	98
34) Naphthalene	6.036	128	871331	77.026	ppm	99
35) 4-Chloroaniline	6.090	127	423915	80.149	ppm	99
36) 2,6-Dichlorophenol	6.095	162	258461	81.897	ppm	95
37) Hexachlorobutadiene	6.143	225	154625	79.108	ppm	96
38) 4-Chloro-3-methylphenol	6.555	107	242942	82.479	ppm	98

Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN182.D  
 Acq On : 22 Feb 2018 8:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 09:03:41 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

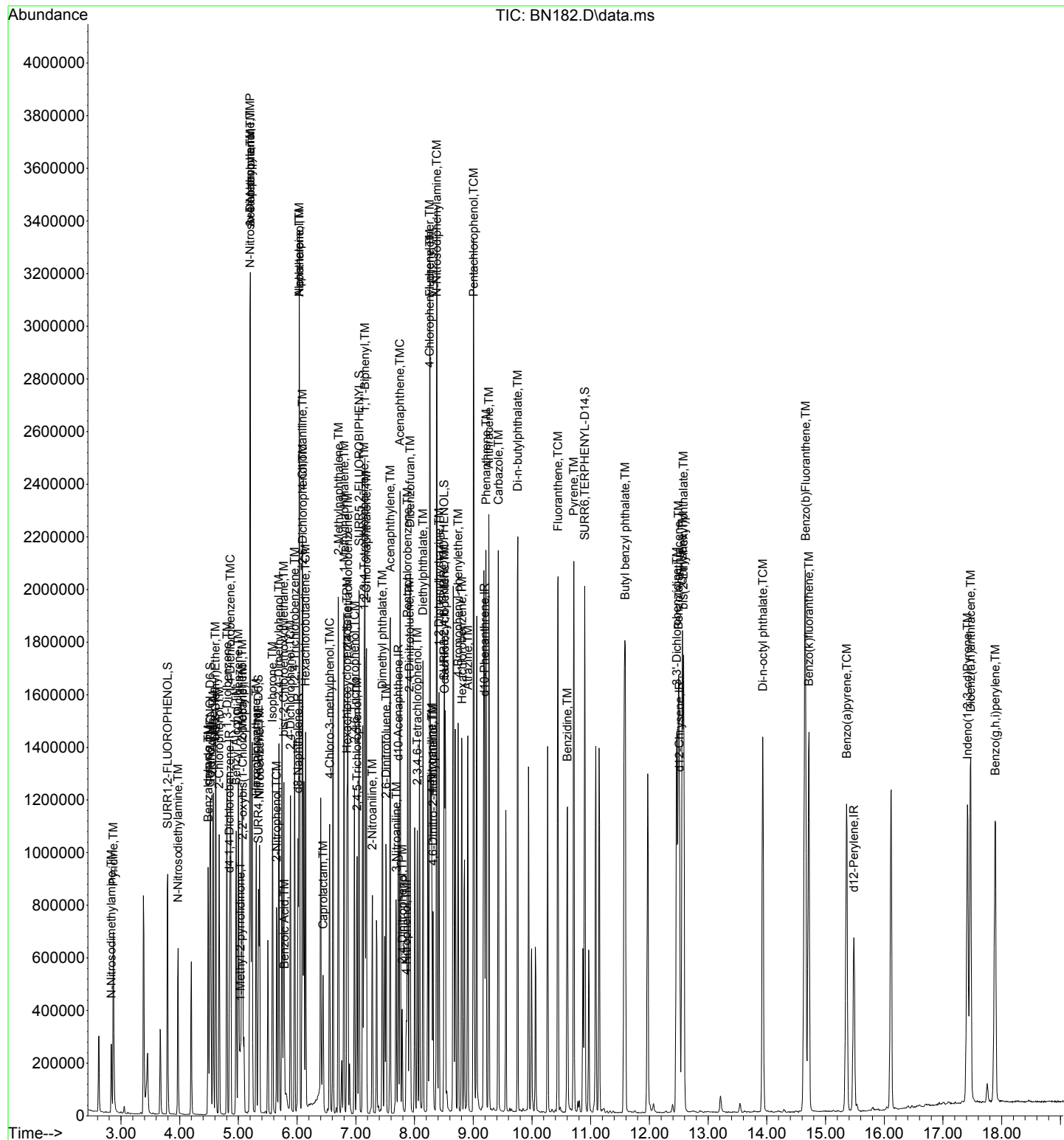
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Caprolactam	6.443	113	89226	83.365	ppm	98
40) 2-Methylnaphthalene	6.705	142	579596	79.856	ppm	98
41) 1-Methylnaphthalene	6.801	142	538790	78.540	ppm	99
43) Hexachlorocyclopentadiene	6.849	237	157064	80.412	ppm	99
44) 1,2,4,5-Tetrachloroben...	6.865	216	279301	79.527	ppm	98
45) 1,2,3,4-Tetrachloroben...	7.144	216	265627	78.593	ppm	100
46) 2,4,6-Trichlorophenol	6.978	196	177722	88.499	ppm	98
47) 2,4,5-Trichlorophenol	7.021	196	173975	84.911	ppm	95
49) 1,1'-Biphenyl	7.154	154	709470	78.581	ppm	99
50) 2-Chloronaphthalene	7.181	162	551095	78.349	ppm	96
51) 2-Nitroaniline	7.283	65	138216	87.358	ppm	89
52) Acenaphthylene	7.587	152	876284	81.011	ppm	99
53) Dimethyl phthalate	7.454	163	617371	78.124	ppm	100
54) 2,6-Dinitrotoluene	7.513	165	140758	96.840	ppm	98
55) Acenaphthene	7.753	153	586938	78.865	ppm	98
56) 3-Nitroaniline	7.689	138	160063	89.585	ppm	91
57) 2,4-Dinitrophenol	7.791	184	69363	105.718	ppm	97
58) Dibenzofuran	7.924	168	764287	78.771	ppm	99
59) 2,4-Dinitrotoluene	7.914	165	192319	94.055	ppm	97
60) 4-Nitrophenol	7.860	65	100432	89.678	ppm	87
61) Pentachlorobenzene	7.882	250	245385	79.320	ppm	99
62) 2,3,4,6-Tetrachlorophenol	8.047	232	139693	90.989	ppm	96
63) Fluorene	8.261	166	614197	78.771	ppm	99
64) 4-Chlorophenyl-phenyle...	8.256	204	274169	78.013	ppm	99
65) Diethylphthalate	8.144	149	641426	80.685	ppm	99
66) 4-Nitroaniline	8.293	138	176142	83.881	ppm	97
68) Octachlorocyclopentene	8.513	307	112300	92.778	ppm	99
70) 4,6-Dinitro-2-methylph...	8.315	198	112003	100.447	ppm	94
71) 1,2 Diphenylhydrazine	8.417	77	567047	71.254	ppm	99
72) N-Nitrosodiphenylamine	8.379	169	909399	148.913	ppm	100
73) 4-Bromophenyl-phenylether	8.743	248	156094	74.561	ppm	100
74) Hexachlorobenzene	8.807	284	204343	76.358	ppm	93
75) Atrazine	8.909	215	89919	77.536	ppm	91
76) Pentachlorophenol	9.005	266	136569	89.881	ppm	99
77) Phenanthrene	9.219	178	854362	77.845	ppm	99
78) Anthracene	9.267	178	864208	79.617	ppm	99
79) Carbazole	9.427	167	875499	78.951	ppm	99
80) Di-n-butylphthalate	9.759	149	1154173	83.083	ppm	99
81) Fluoranthene	10.444	202	962733	81.753	ppm	99
83) Benzidine	10.604	184	601497	79.676	ppm	98
84) Pyrene	10.711	202	988721	78.316	ppm	99
86) Butyl benzyl phthalate	11.588	149	534597	82.659	ppm	96
87) 3,3'-Dichlorobenzidine	12.465	252	458798	82.887	ppm	97
88) Benzo(a)anthracene	12.498	228	967355	80.558	ppm	100
89) Chrysene	12.562	228	902750	78.971	ppm	100
90) bis(2-Ethylhexyl)phtha...	12.583	149	759063	83.198	ppm	99
92) Di-n-octyl phthalate	13.931	149	1298027	81.672	ppm	98
93) Benzo(b)Fluoranthene	14.658	252	1019513	81.668	ppm	99
94) Benzo(k)fluoranthene	14.717	252	962976	80.123	ppm	99
95) Benzo(a)pyrene	15.359	252	879135	82.788	ppm	99
96) Indeno(1,2,3-cd)Pyrene	17.418	276	844200	90.932	ppm	95
97) Dibenz(a,h)anthracene	17.472	278	923183	86.775	ppm	97
98) Benzo(g,h,i)perylene	17.889	276	847168	90.098	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed



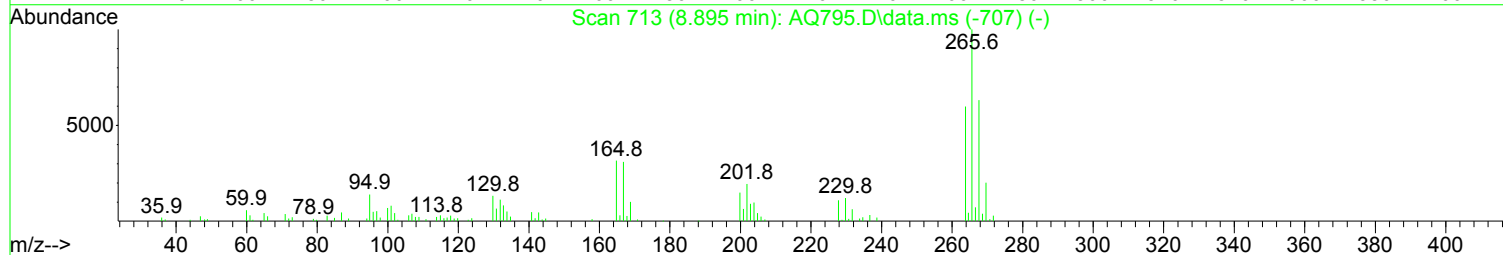
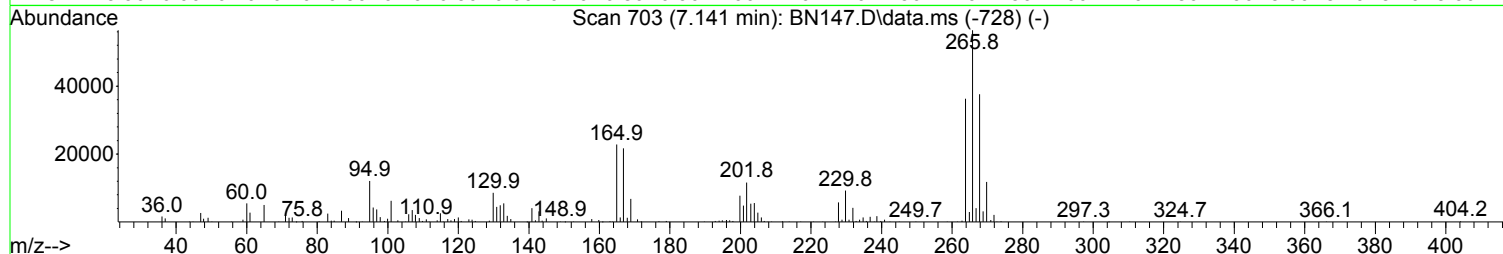
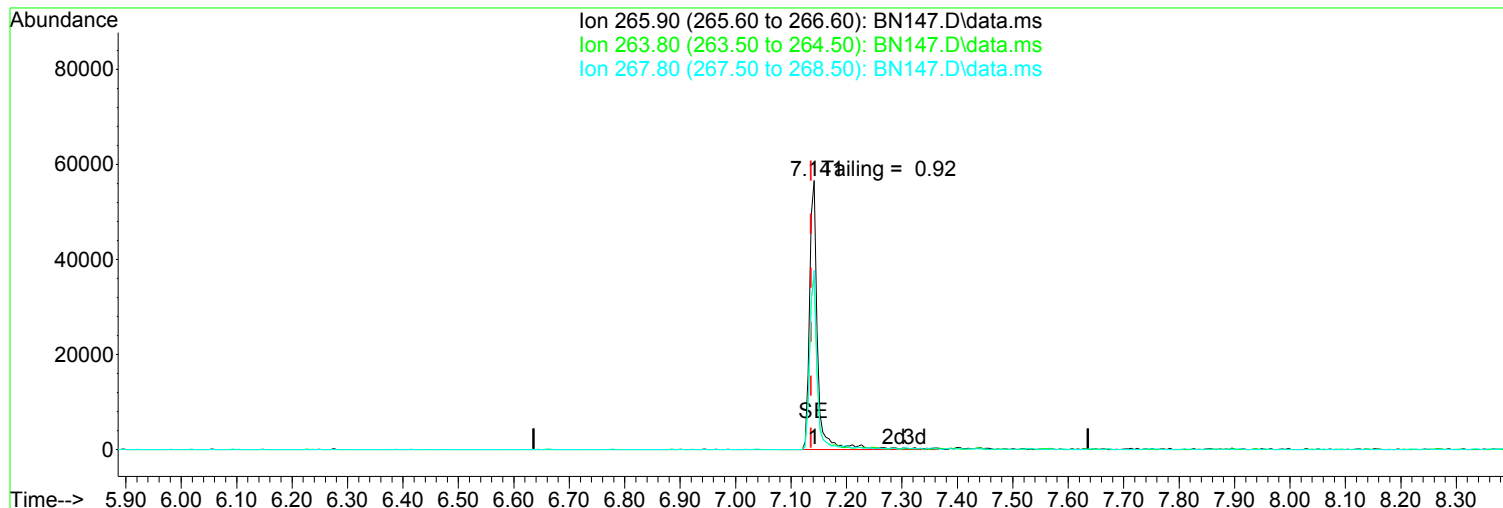
Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN182.D  
Acq On : 22 Feb 2018 8:32 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 09:03:41 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318DS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN147.D  
 Acq On : 21 Feb 2018 7:54 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:24:26 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration



TIC: BN147.D\data.ms

(5) Pentachlorophenol (TCM)

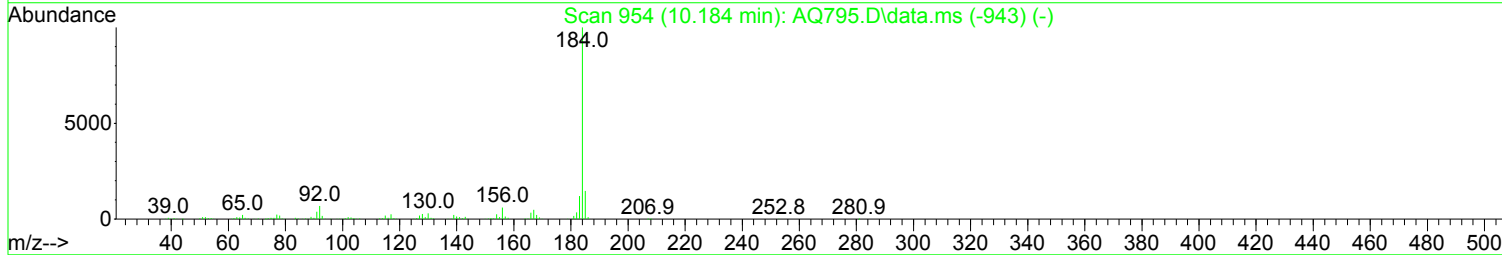
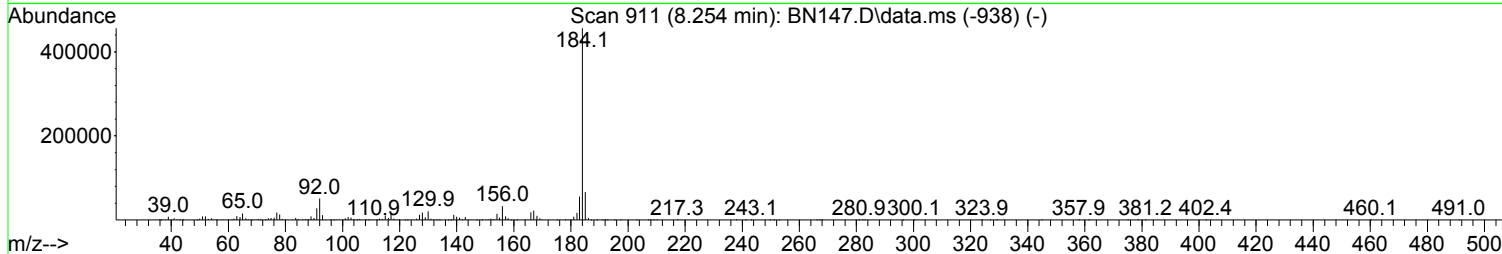
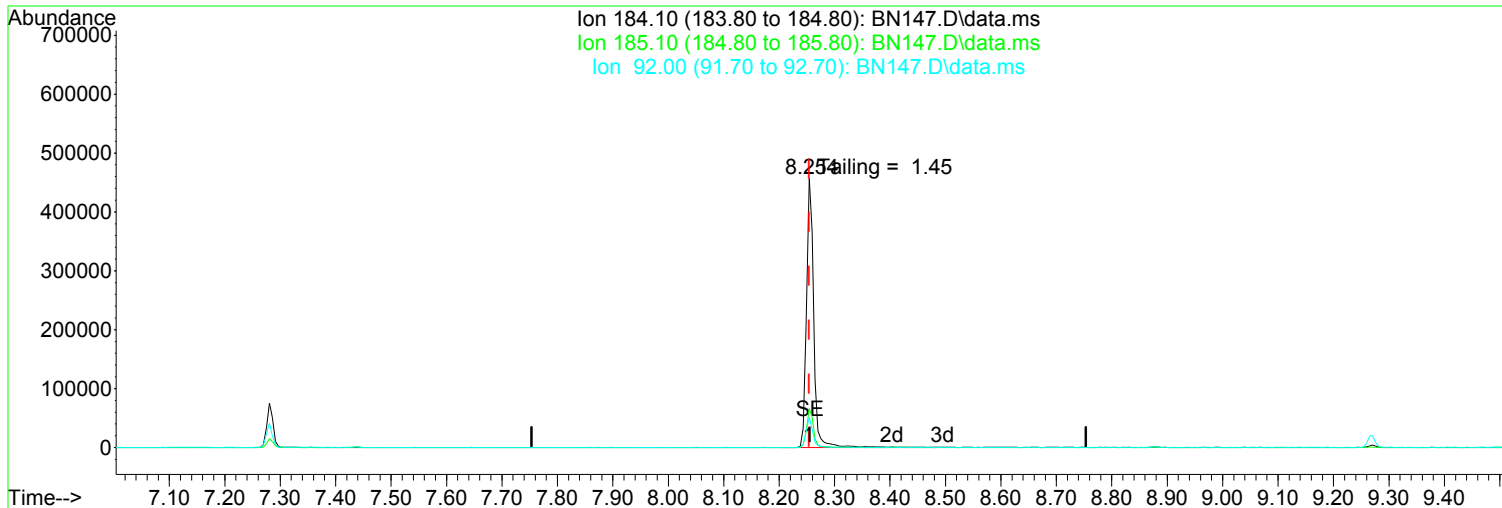
7.141min (+ 0.005) 69.05 ppm

response	56843
Ion	Exp% Act%
265.90	100.00 100.00
263.80	57.70 64.14
267.80	58.60 66.77
0.00	0.00 0.00

Manual Integration:  
 After  
 Other - Tailing  
 02/21/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
Data File : BN147.D  
Acq On : 21 Feb 2018 7:54 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:24:26 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 08:43:55 2018  
Response via : Initial Calibration



TIC: BN147.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.254min ( 0.000) 50.55 ppm

After

response 411932

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.52
92.00	8.00	11.19
0.00	0.00	0.00

02/21/18

Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN147.D  
 Acq On : 21 Feb 2018 7:54 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 21 08:24:26 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration

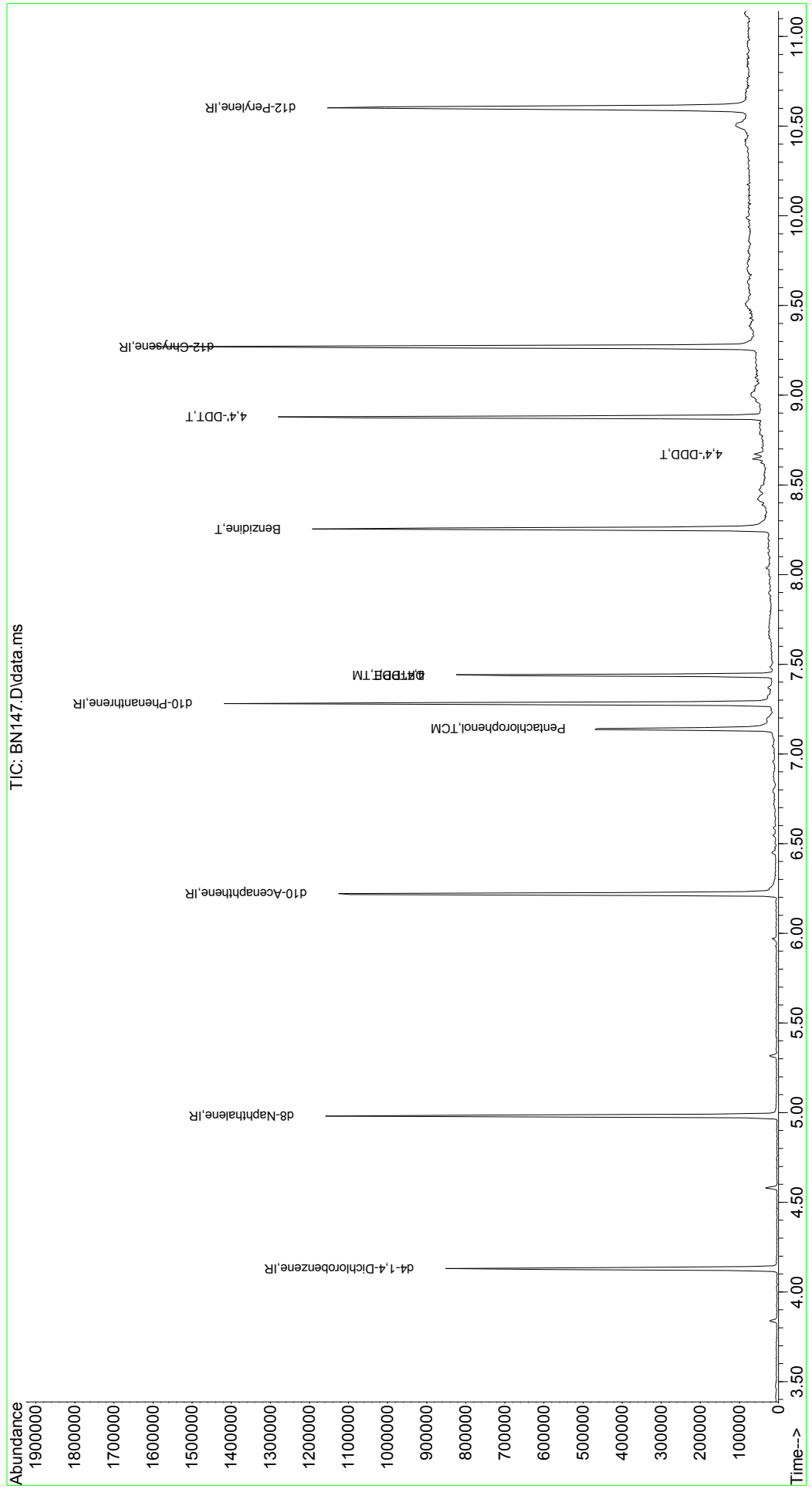
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----						
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.130	152	115812	40.00	ppm	0.00
2) d8-Naphthalene	4.981	136	426346	40.00	ppm	0.00
3) d10-Acenaphthene	6.222	164	222222	40.00	ppm	0.00
4) d10-Phenanthrene	7.281	188	424223	40.00	ppm	0.00
7) d12-Chrysene	9.270	240	436722	40.00	ppm	0.00
12) d12-Perylene	10.602	264	447408	40.00	ppm	0.00
Target Compounds						Qvalue
5) Pentachlorophenol	7.141	266	56843	69.047	ppm	90
6) DFTPP	7.441	198	64799	51.513	ppm	83
8) Benzidine	8.254	184	411932	50.549	ppm	96
9) 4,4'-DDE	7.441	246	1482	0.430	ppm	83
10) 4,4'-DDD	8.671	235	2295	0.666	ppm	85
11) 4,4'-DDT	8.880	235	190892	55.423	ppm	98
-----						

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN147.D  
 Acq On : 21 Feb 2018 7:54 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

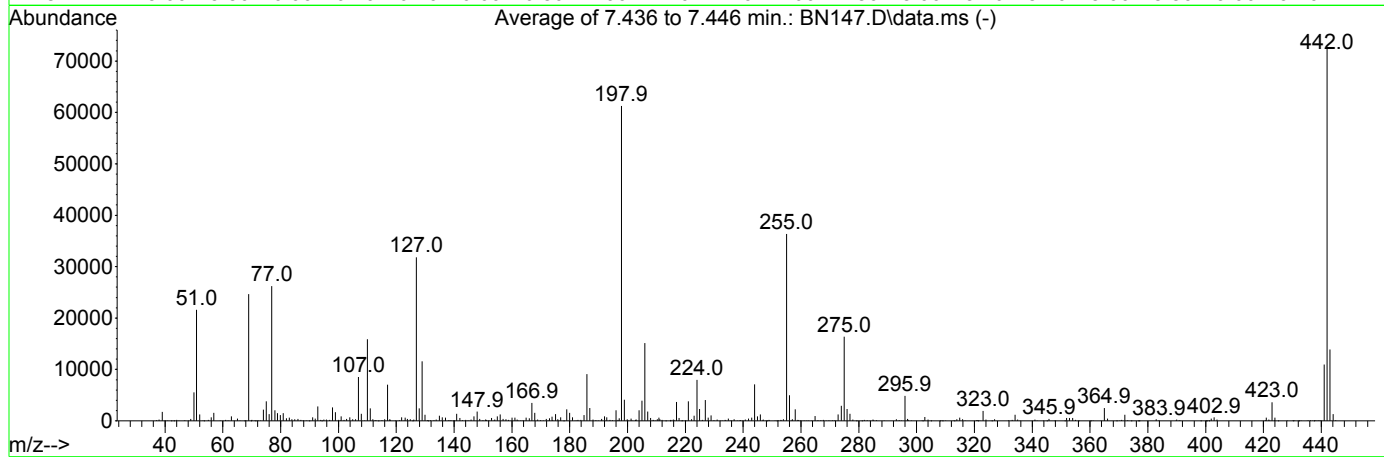
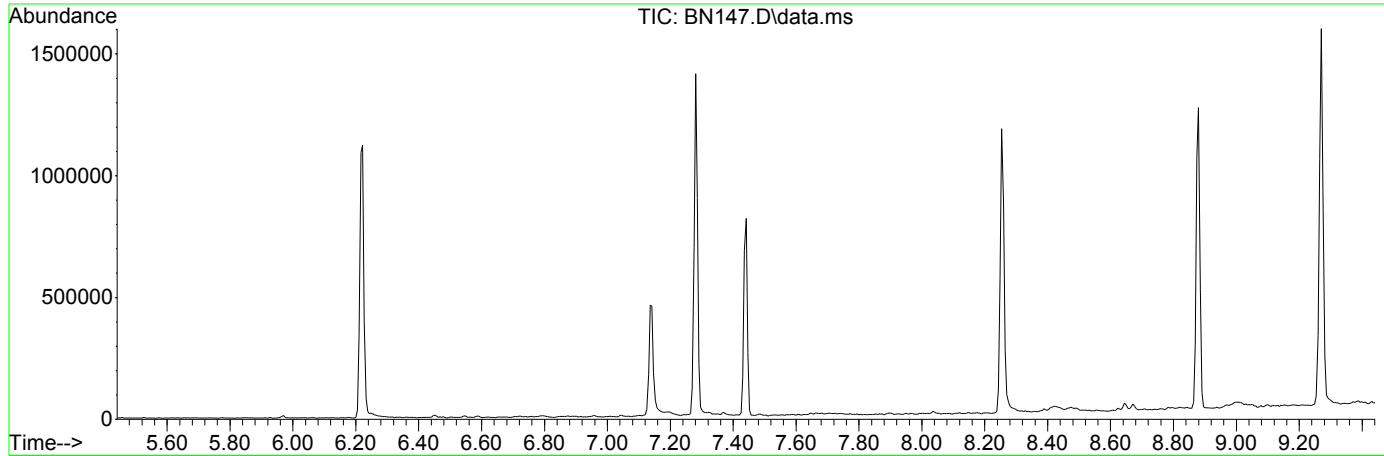
Quant Time: Feb 21 08:24:26 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN147.D  
 Acq On : 21 Feb 2018 7:54 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Tue Apr 01 09:41:30 2014



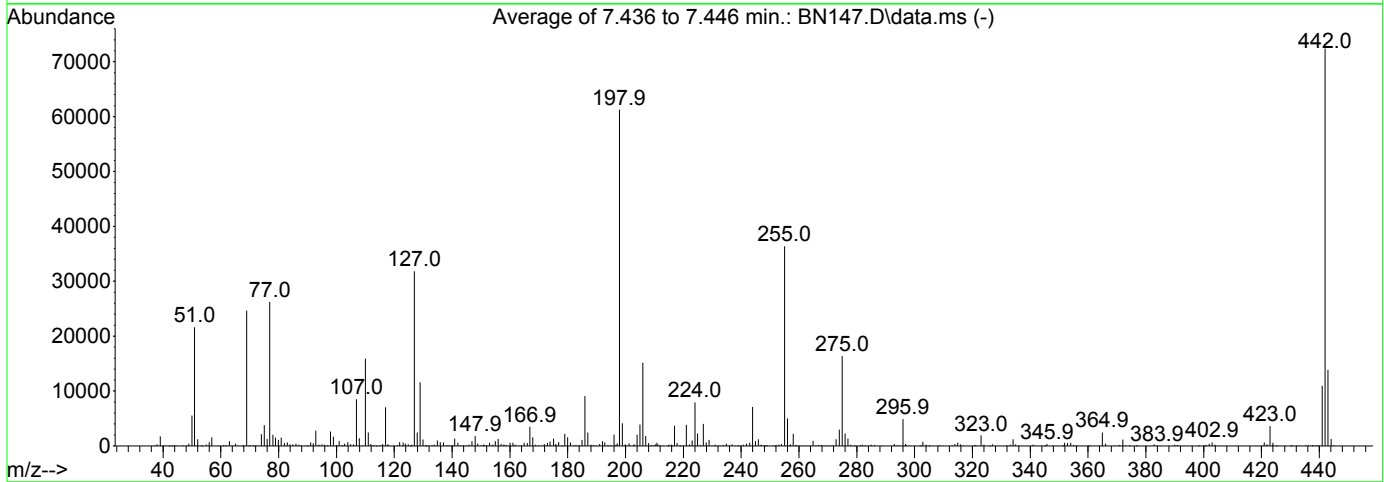
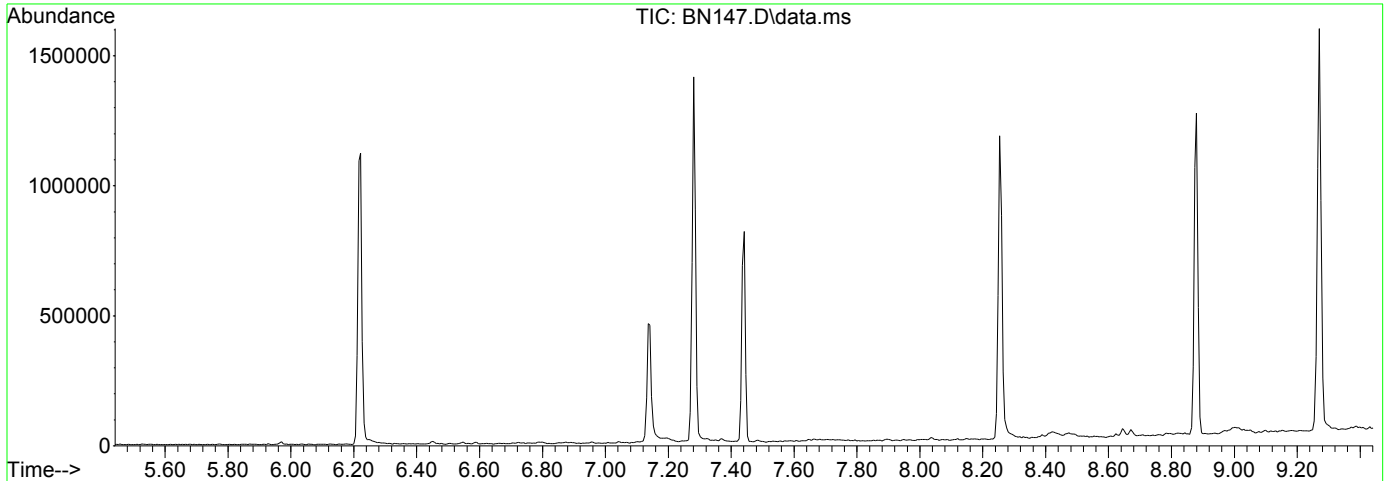
AutoFind: Scans 758, 759, 760; Background Corrected with Scan 750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.3	21630	PASS
68	69	0.00	2	0.5	131	PASS
69	198	0.00	100	40.2	24640	PASS
70	69	0.00	2	0.7	175	PASS
127	198	40	60	52.0	31840	PASS
197	198	0.00	1	0.8	495	PASS
198	198	100	100	100.0	61288	PASS
199	198	5	9	6.7	4123	PASS
275	198	10	30	26.8	16407	PASS
365	198	1	500	4.0	2467	PASS
441	443	0.01	100	79.2	10985	PASS
442	198	50	500	118.1	72403	PASS
443	442	17	23	19.2	13867	PASS

Data Path : I:\ACQUDATA\5973D\Data\022118\  
 Data File : BN147.D  
 Acq On : 21 Feb 2018 7:54 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 08:43:55 2018

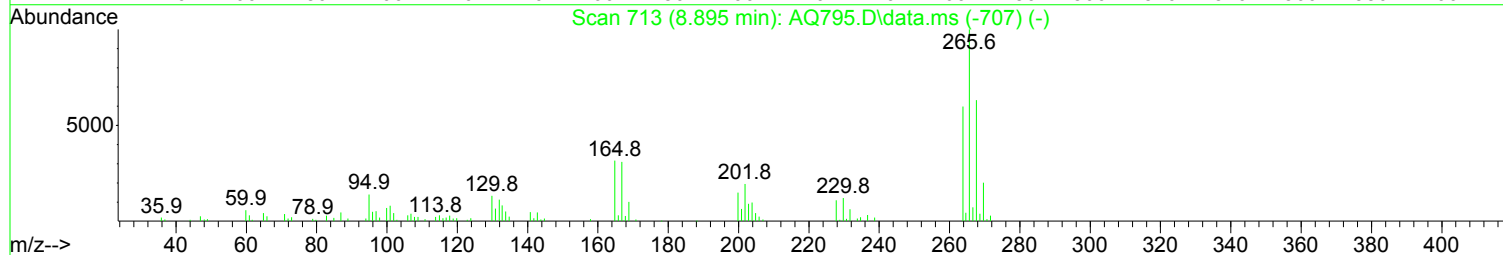
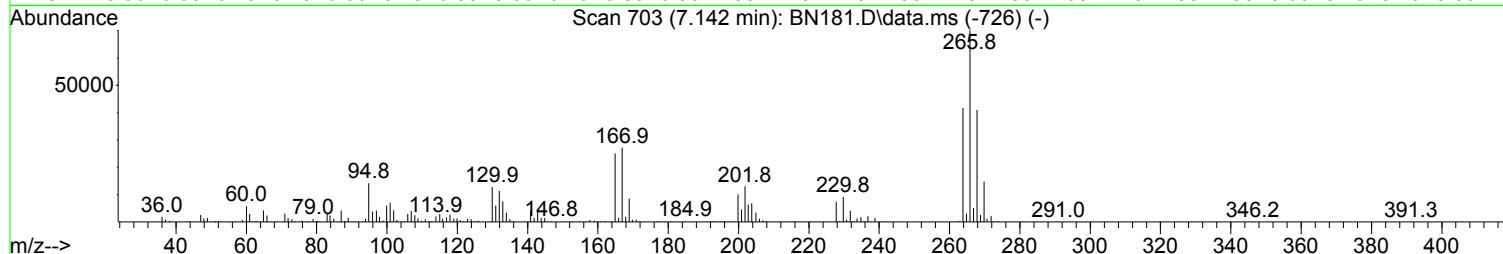
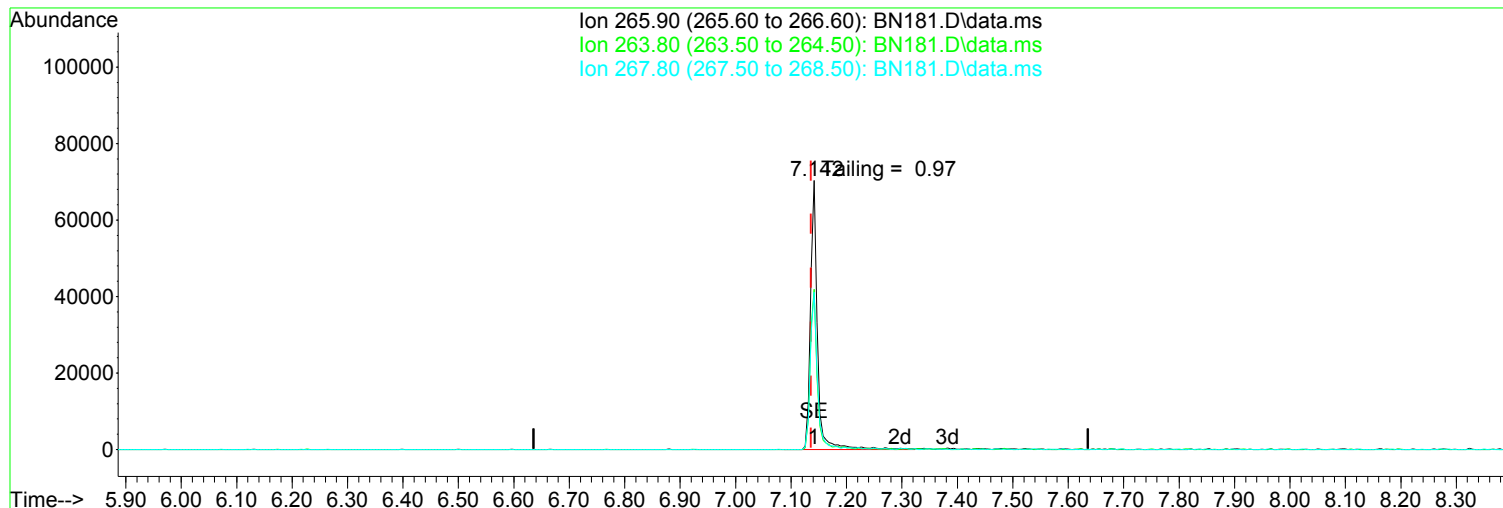


AutoFind: Scans 758, 759, 760; Background Corrected with Scan 750

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.3	21630	PASS
68	69	0.00	2	0.5	131	PASS
70	69	0.00	2	0.7	175	PASS
127	198	10	80	52.0	31840	PASS
197	198	0.00	2	0.8	495	PASS
198	198	100	100	100.0	61288	PASS
199	198	5	9	6.7	4123	PASS
275	198	10	60	26.8	16407	PASS
365	198	1	500	4.0	2467	PASS
441	442	0.01	24	15.2	10985	PASS
442	442	100	100	100.0	72403	PASS
443	442	15	24	19.2	13867	PASS

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN181.D  
Acq On : 22 Feb 2018 8:05 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 08:25:06 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 08:43:55 2018  
Response via : Initial Calibration



TIC: BN181.D\data.ms

(5) Pentachlorophenol (TCM)

7.142min (+ 0.006) 71.50 ppm

response 62301

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	59.59
267.80	58.60	58.55
0.00	0.00	0.00

Manual Integration:

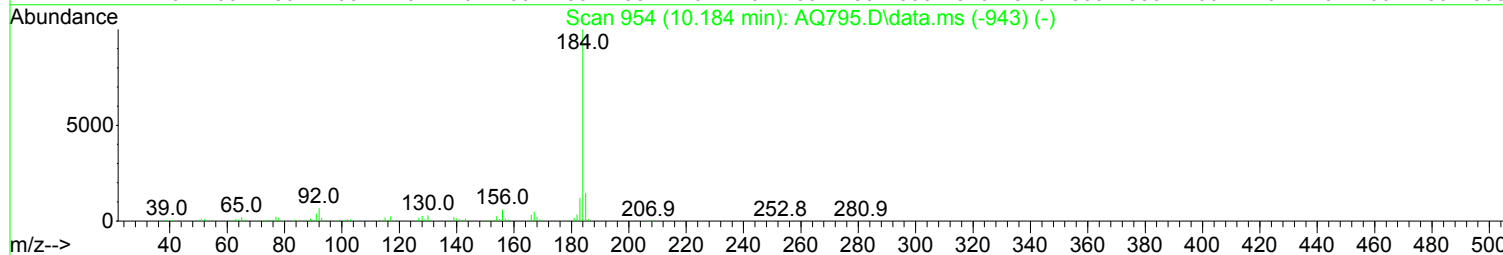
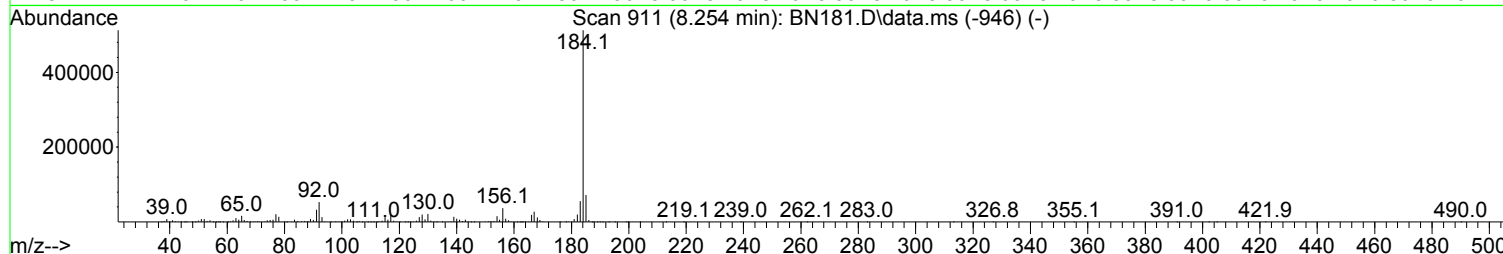
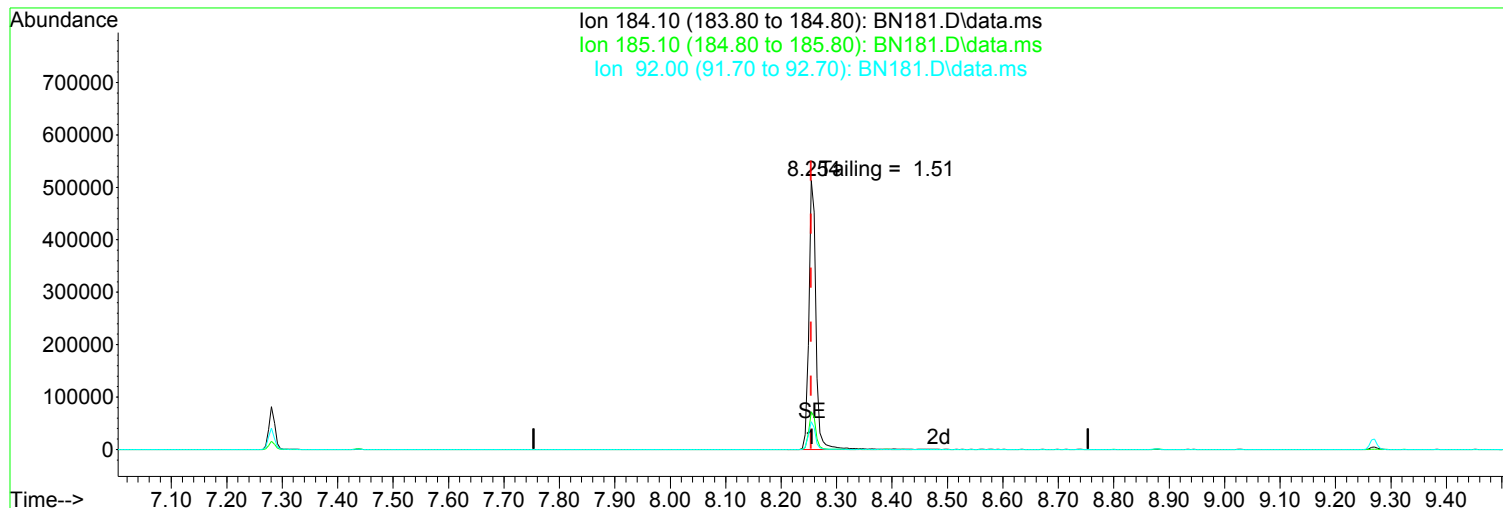
After

Other - Tailing

02/22/18

Data Path : I:\ACQUDATA\5973D\Data\022218\  
Data File : BN181.D  
Acq On : 22 Feb 2018 8:05 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 08:25:06 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 08:43:55 2018  
Response via : Initial Calibration



TIC: BN181.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.254min (+ 0.000) 50.69 ppm

After

response 462233

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.04
92.00	8.00	10.36
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN181.D  
 Acq On : 22 Feb 2018 8:05 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

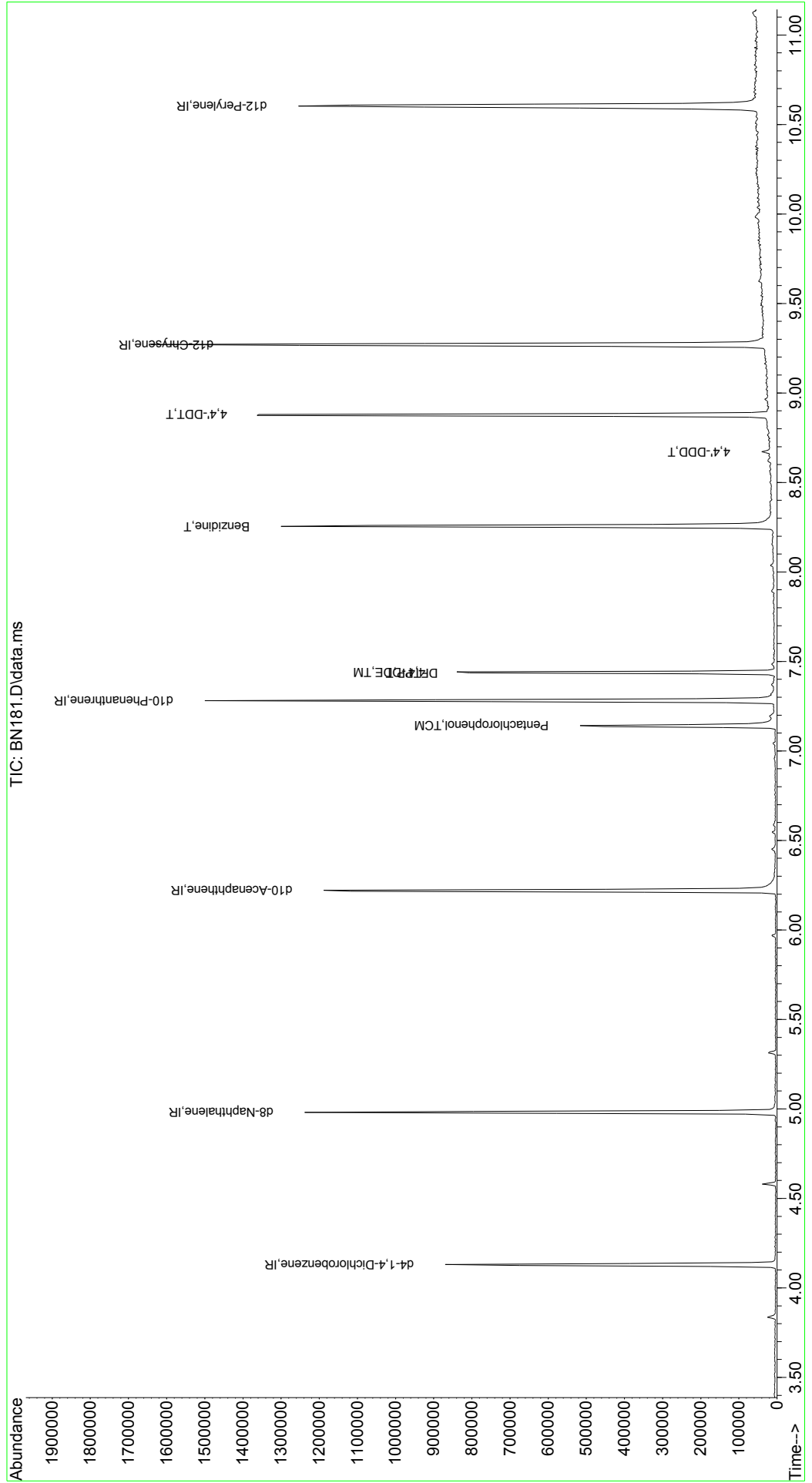
Quant Time: Feb 22 08:25:06 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.130	152	120367	40.00	ppm	0.00	
2) d8-Naphthalene	4.981	136	446766	40.00	ppm	0.00	
3) d10-Acenaphthene	6.222	164	238279	40.00	ppm	0.00	
4) d10-Phenanthrene	7.281	188	449011	40.00	ppm	0.00	
7) d12-Chrysene	9.270	240	488718	40.00	ppm	0.00	
12) d12-Perylene	10.602	264	512673	40.00	ppm	0.00	
Target Compounds							
5) Pentachlorophenol	7.142	266	62301	71.499	ppm		Qvalue 99
6) DFTPP	7.436	198	71500	53.702	ppm		66
8) Benzidine	8.254	184	462233	50.686	ppm		96
9) 4,4'-DDE	7.441	246	1472	0.382	ppm		70
10) 4,4'-DDD	8.671	235	3488	0.905	ppm		97
11) 4,4'-DDT	8.880	235	221087	57.361	ppm		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN181.D  
 Acq On : 22 Feb 2018 8:05 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

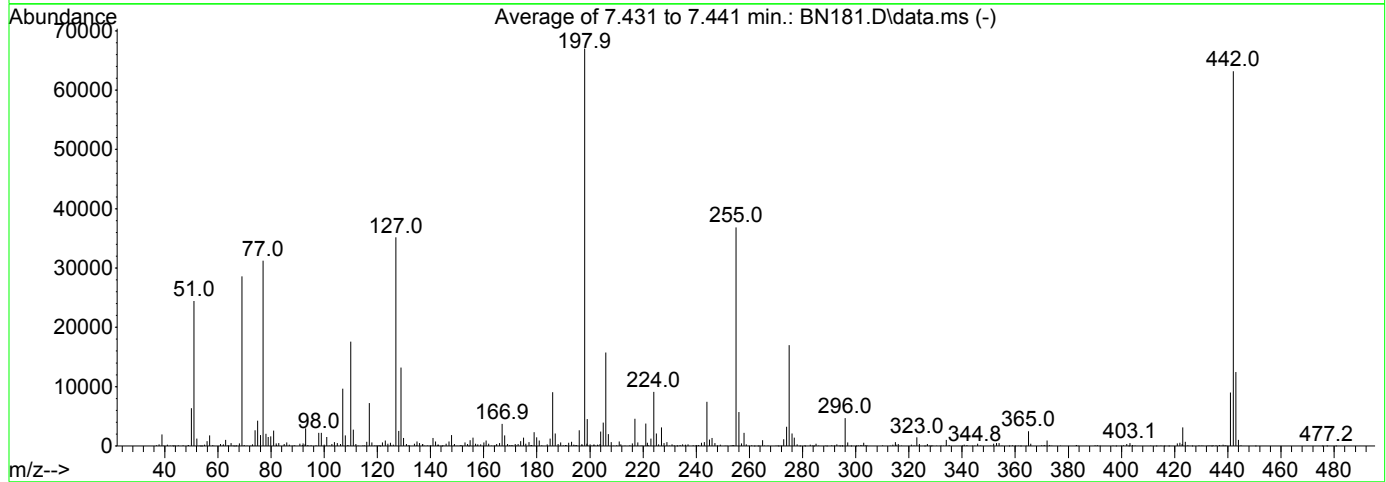
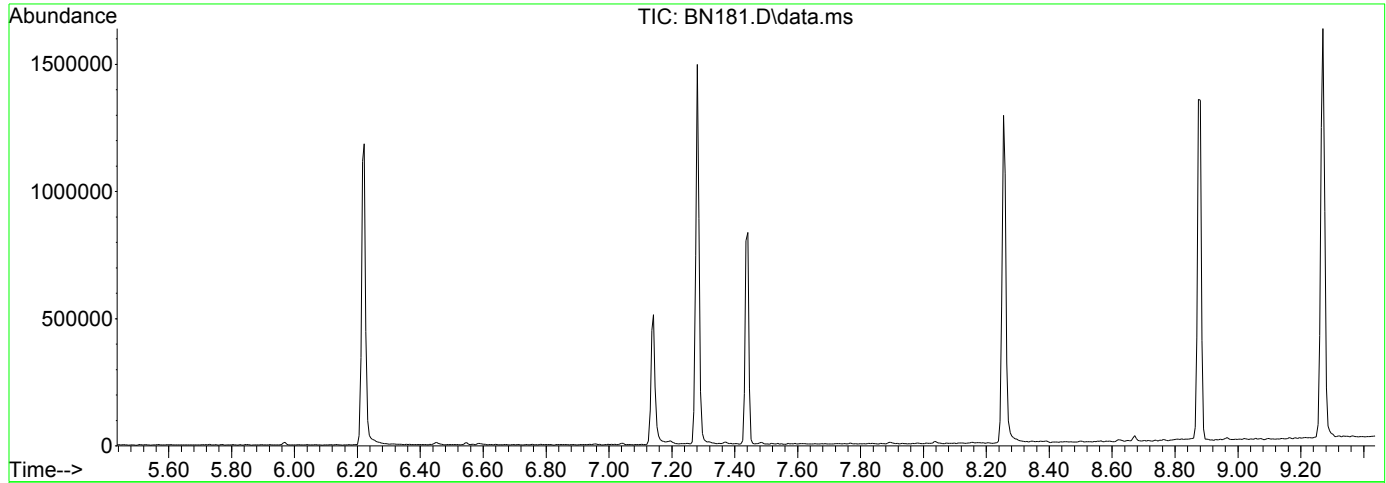
Quant Time: Feb 22 08:25:06 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\022218\  
 Data File : BN181.D  
 Acq On : 22 Feb 2018 8:05 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 08:43:55 2018



AutoFind: Scans 757, 758, 759; Background Corrected with Scan 753

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.4	24422	PASS
68	69	0.00	2	1.6	451	PASS
70	69	0.00	2	0.5	150	PASS
127	198	10	80	52.5	35182	PASS
197	198	0.00	2	0.4	259	PASS
198	198	100	100	100.0	67011	PASS
199	198	5	9	6.8	4562	PASS
275	198	10	60	25.3	16984	PASS
365	198	1	500	3.7	2498	PASS
441	442	0.01	24	14.3	9015	PASS
442	442	100	100	100.0	63209	PASS
443	442	15	24	19.7	12446	PASS



Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN093.D  
 Acq On : 23 Jan 2018 5:17 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 09:56:10 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	95342	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	390651	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	192000	40.00	ppm	0.00	
91) d10-Phenanthrene	9.187	188	338210	40.00	ppm	0.00	
117) d12-Chrysene	12.508	240	316280	40.00	ppm	0.00	
135) d12-Perylene	15.472	264	308261	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.790	112	239418	80.86	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	40.43%	
12) SURR2,PHENOL-D6	4.512	99	285700	81.78	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	40.89%	
34) SURR4,NITROBENZENE-D5	5.341	82	225905	84.62	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	84.62%	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	510053	75.97	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	75.97%	
88) SURR3,2,4,6-TRIBROMOPH...	8.502	330	77395	76.11	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	38.06%	
124) SURR6,TERPHENYL-D14	10.898	244	543210	80.15	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	80.15%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.870	79	247655	85.225	ppm		99
3) N-Nitrosodimethylamine	2.833	74	126824	87.520	ppm		97
4) 2-Picoline	3.384	93	262361	85.295	ppm		99
5) N-Nitrosomethylamine	3.448	42	105330	76.788	ppm		97
6) Methyl Methansulfonate	3.667	80	110709	79.996	ppm		99
8) N-Nitrosodiethylamine	3.972	102	72162	47.212	ppm		97
9) Ethyl Mathanesulfonate	4.197	79	174561	80.115	ppm		98
10) Benzaldehyde	4.485	106	166243	86.262	ppm		98
11) Aniline	4.566	93	422690	81.656	ppm		99
13) Phenol	4.523	94	296984	84.416	ppm		98
14) bis(2-Clethyl)Ether	4.608	93	225875	84.486	ppm		99
15) Pentachloroethane	4.614	117	92399	83.205	ppm		100
16) 2-Chlorophenol	4.667	128	254165	84.981	ppm		99
17) 1,3-Diclbzene	4.801	146	269821	80.804	ppm		94
18) 1,4-Dichlorobenzene	4.865	146	273154	80.684	ppm		99
19) 1,2-Diclbzene	4.999	146	261856	80.436	ppm		98
20) Benzyl Alcohol	4.961	79	191971	85.523	ppm		99
21) 1-Methyl-2-pyrrolidinone	5.036	99	154921	85.927	ppm		98
22) 2,2'-oxybis(1-Chloropr...	5.074	45	276535	100.387	ppm		99
23) 2-Methylphenol	5.058	108	212739	80.170	ppm		94
24) 3+4-Methylphenol	5.197	108	234370	85.491	ppm		99
25) Acetophenone	5.202	105	332862	79.821	ppm		95
26) N-Nitroso-Di-n-propyla...	5.197	70	174344	84.458	ppm		99
27) N-Nitrosopyrrolidine	5.191	100	128945	88.216	ppm		97
28) N-Nitrosomorpholine	5.224	56	130185	84.874	ppm		97
29) o-Toluidine	5.234	106	378822	82.111	ppm		99
30) Hexachloroethane	5.298	117	110869	82.287	ppm		93
31) o,o,o-Triethylphosphor...	5.742	198	114199	83.273	ppm		94
32) Alpha-terpinol	6.037	121	88655	85.256	ppm		100
35) Nitrobenzene	5.357	77	280853	99.783	ppm		99
36) N-Nitrosopiperidine	5.502	42	136780	78.727	ppm		94
37) Isophorone	5.582	82	513372	91.901	ppm		100
38) 2-Nitrophenol	5.651	139	125613	88.102	ppm		98

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN093.D  
 Acq On : 23 Jan 2018 5:17 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 09:56:10 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.780	105	164256	85.850	ppm	94
40) 2,4-Dimethylphenol	5.684	107	241392	79.754	ppm	96
41) bis(-2-Chloroethoxy)Me...	5.769	93	279175	81.391	ppm	98
42) 2,4-Dichlorophenol	5.881	162	198351	84.994	ppm	98
43) a,a-Dimethylphenethyla...	6.031	58	482153	78.317	ppm	90
44) 1,2,4-Trichlorobenzene	5.956	180	225242	79.311	ppm	99
45) Naphthalene	6.037	128	742828	79.509	ppm	99
46) 4-Chloroaniline	6.085	127	204365	46.784	ppm	98
47) 2,6-Dichlorophenol	6.090	162	195431	74.978	ppm	93
48) Hexachlorobutadiene	6.143	225	125736	77.888	ppm	93
49) Hexachloropropene	6.117	213	154087	82.589	ppm	99
50) 4-Chloro-3-methylphenol	6.545	107	203124	83.498	ppm	99
51) N-N-di-n-butylamine	6.400	84	161519	78.032	ppm	95
52) Caprolactam	6.443	113	70182	79.394	ppm	98
53) p-Phenylenediamine	6.443	80	23409	204.086	ppm	78
54) Safrole	6.609	162	118576	45.260	ppm	96
55) 2-Methylnaphthalene	6.700	142	463277	77.284	ppm	97
56) 1-Methylnaphthalene	6.796	142	444186	78.399	ppm	99
58) Hexachlorocyclopentadiene	6.849	237	134311	84.103	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.860	216	218818	76.205	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.138	216	214723	77.705	ppm	99
61) 2,4,6-Trichlorophenol	6.973	196	140859	85.790	ppm	99
62) 2,4,5-Trichlorophenol	7.015	196	136896	81.719	ppm	97
64) Isosafrole	7.117	104	83400	74.045	ppm	98
65) 1,1'-Biphenyl	7.154	154	584885	79.233	ppm	99
66) 2-Chloronaphthalene	7.176	162	448473	77.983	ppm	100
67) 2-Nitroaniline	7.277	65	108090	83.558	ppm	97
68) 1,4-Naphthoquinone	7.352	158	140621	78.951	ppm	96
69) m-Dinitrobenzene	7.486	168	66168	85.777	ppm	75
70) Acenaphthylene	7.582	152	747216	84.489	ppm	99
71) Dimethyl phthalate	7.454	163	481150	74.469	ppm	99
72) 2,6-Dinitrotoluene	7.513	165	118112	99.387	ppm	93
73) Acenaphthene	7.753	153	484009	79.543	ppm	99
74) 3-Nitroaniline	7.684	138	120286	82.341	ppm	93
75) 2,4-Dinitrophenol	7.786	184	47046	92.849	ppm	99
76) Dibenzofuran	7.925	168	624207	78.686	ppm	99
77) 2,4-Dinitrotoluene	7.909	165	154722	92.916	ppm	96
78) 4-Nitrophenol	7.850	65	75580	82.543	ppm	86
79) Pentachlorobenzene	7.882	250	197605	78.125	ppm	97
80) 1-Naphthylamine	8.005	143	377300	100.602	ppm	99
81) 2-Naphthylamine	8.080	143	413101	81.363	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.042	232	104917	83.583	ppm	97
83) Fluorene	8.262	166	502938	78.891	ppm	100
84) 4-Chlorophenyl-phenyle...	8.256	204	230473	80.209	ppm	97
85) Diethylphthalate	8.144	149	495724	76.268	ppm	99
86) 4-Nitroaniline	8.288	138	140067	81.581	ppm	96
87) 5-Nitro-o-toluidine	8.278	152	140063	85.446	ppm	98
89) Sulfotepp	8.524	322	82049	84.552	ppm	90
90) Octachlorocyclopentene	8.508	307	89190	90.123	ppm	99
92) Thionazin	8.224	107	78443	78.720	ppm	98
93) 4,6-Dinitro-2-methylph...	8.310	198	70131	85.212	ppm	90
94) Diphenylamine	8.379	169	746371	157.956	ppm	99
95) 1,2 Diphenylhydrazine	8.411	77	469577	76.261	ppm	97
96) N-Nitrosodiphenylamine	8.379	169	746371	157.956	ppm	99
97) 1,3,5-Trinitrobenzene	8.647	213	37280	87.114	ppm	92
98) Diallate	8.652	86	166464	77.742	ppm	80

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN093.D  
 Acq On : 23 Jan 2018 5:17 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

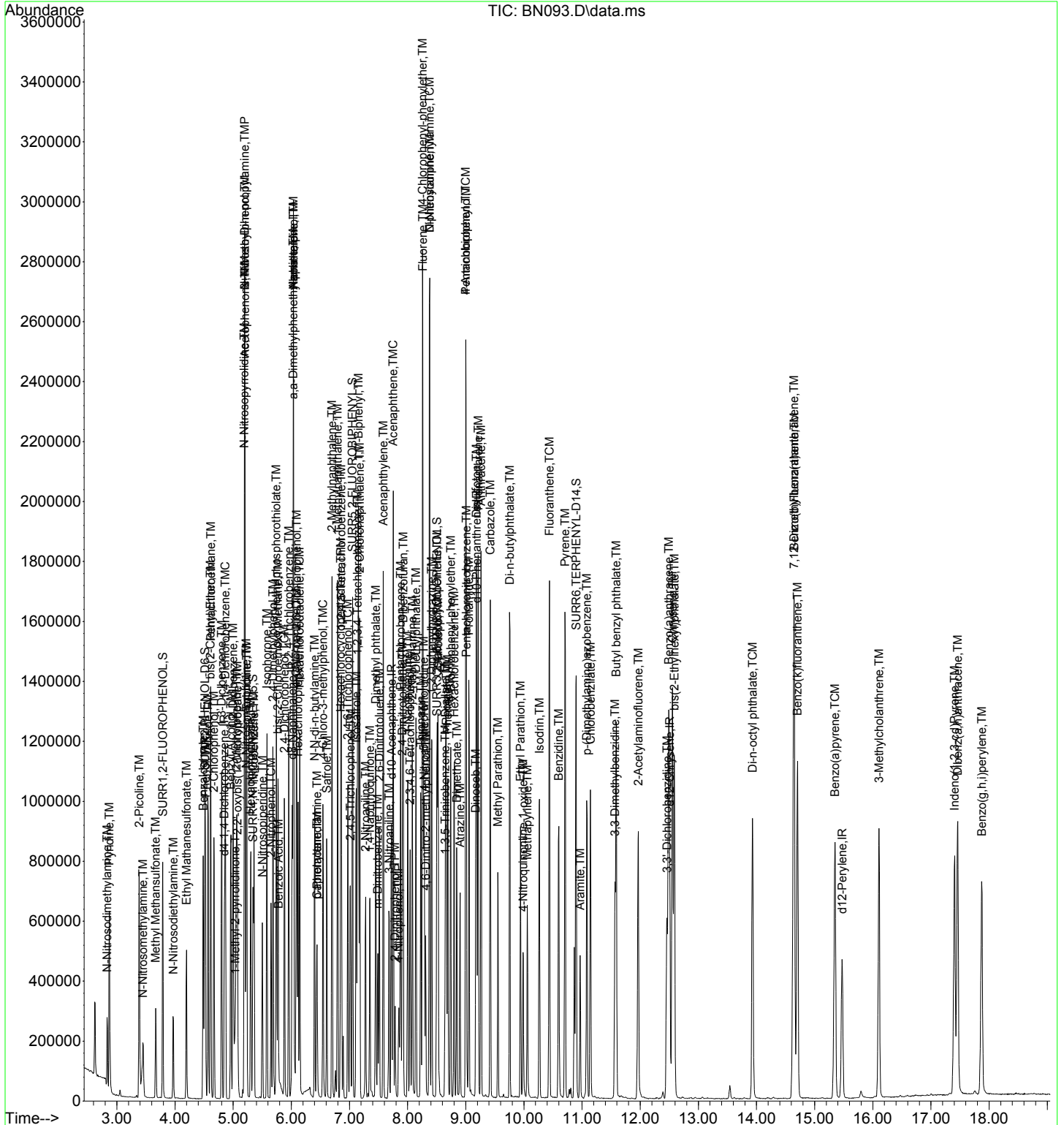
Quant Time: Jan 24 09:56:10 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.668	121	88441	85.168	ppm	91
100) Phenacetin	8.689	108	244550	83.964	ppm	97
101) 4-Bromophenyl-phenylether	8.743	248	133805	82.604	ppm	93
102) Hexachlorobenzene	8.802	284	153300	74.035	ppm	95
103) Dimethoate	8.845	87	162082	88.030	ppm	99
104) Atrazine	8.903	215	39701	44.244	ppm	94
105) Pentachlorophenol	9.000	266	94731	80.576	ppm	97
106) 4-Aminobiphenyl	9.000	169	509964	84.027	ppm	99
107) Pentachloronitrobenzene	9.010	237	59687	85.935	ppm	99
108) Pronamide	9.053	173	224059	83.859	ppm	96
109) Dinoseb	9.171	211	94731	81.971	ppm	92
110) Disulfoton	9.182	88	186627	85.478	ppm	97
111) Phenanthrene	9.214	178	682597	80.381	ppm	100
112) Anthracene	9.262	178	692946	82.507	ppm	99
113) Carbazole	9.422	167	658815	76.784	ppm	98
114) Di-n-butylphthalate	9.759	149	885670	82.397	ppm	99
115) 4-Nitroquinonline-1-oxide	9.989	190	55381	80.603	ppm	95
116) Fluoranthene	10.438	202	773220	84.860	ppm	99
118) Methyl Parathion	9.551	109	126108	92.587	ppm	88
119) Ethyl Parathion	9.941	97	87234	88.723	ppm	100
120) Methapyrilene	10.059	58	175993	103.542	ppm	96
121) Isodrin	10.267	193	77564	87.103	ppm	92
122) Benzidine	10.599	184	433654	79.781	ppm	98
123) Pyrene	10.706	202	774141	85.164	ppm	99
125) Aramite	10.968	185	90005m	87.463	ppm	
126) p-(Dimethylamino)azobe...	11.080	120	217402	82.879	ppm	96
127) Chlorobenzilate	11.144	139	228602	90.248	ppm	88
128) Butyl benzyl phthalate	11.588	149	388046	83.331	ppm	97
129) 3,3-Dimethylbenzidine	11.567	212	298418	47.724	ppm	99
130) 2-Acetylaminofluorene	11.968	181	296131	87.532	ppm	98
131) 3,3'-Dichlorobenzidine	12.460	252	186215	46.724	ppm	99
132) Benzo(a)anthracene	12.492	228	733775	84.869	ppm	98
133) Chrysene	12.557	228	705557	85.722	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.589	149	565733	86.121	ppm	99
136) Di-n-octyl phthalate	13.931	149	864919	77.168	ppm	99
137) 7,12-Dimethylbenz(a)an...	14.642	256	337640	81.818	ppm	95
138) Benzo(b)Fluoranthene	14.648	252	760209	85.518	ppm	99
139) Benzo(k)fluoranthene	14.707	252	733353	85.688	ppm	99
140) Benzo(a)pyrene	15.349	252	656195	86.778	ppm	99
141) 3-Methylcholanthrene	16.108	268	364346	85.201	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.408	276	569092	86.083	ppm	93
143) Dibenz(a,h)anthracene	17.461	278	641336	84.656	ppm	97
144) Benzo(g,h,i)perylene	17.873	276	532989	79.603	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

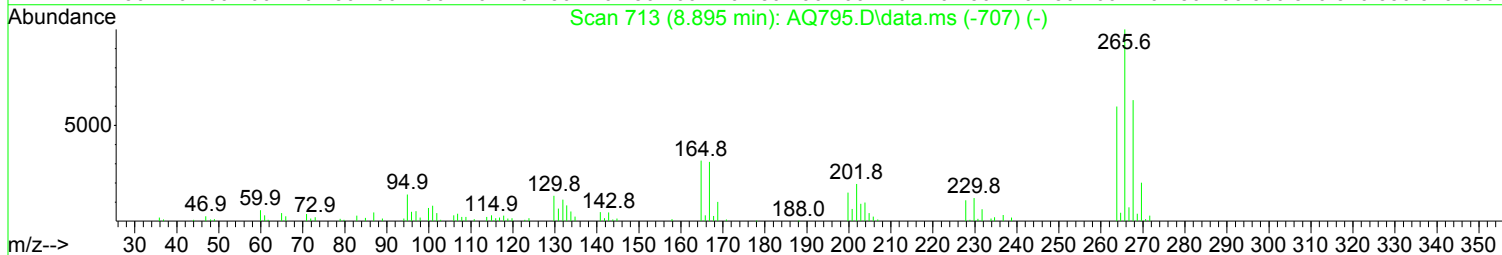
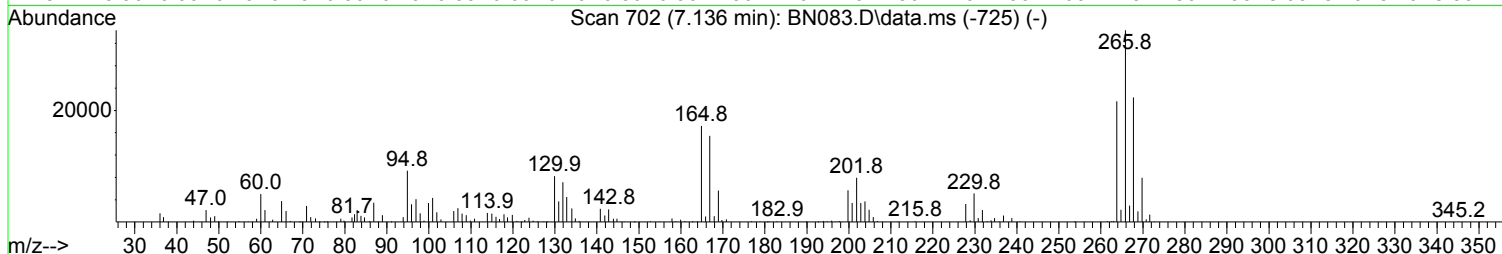
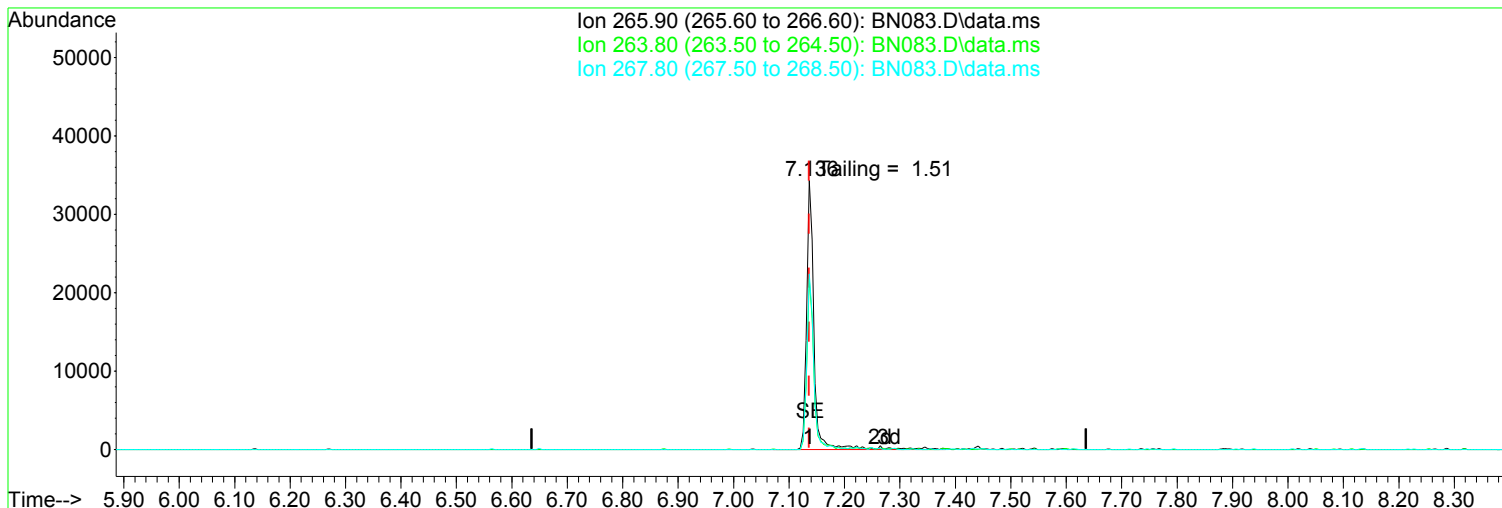
Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN093.D  
Acq On : 23 Jan 2018 5:17 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 09:56:10 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN083.D  
Acq On : 23 Jan 2018 12:29 pm  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 08:44:17 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 08:43:55 2018  
Response via : Initial Calibration



TIC: BN083.D\data.ms

(5) Pentachlorophenol (TCM)

7.136min ( 0.000) 50.00 ppm

response 31149

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	63.36
267.80	58.60	65.27
0.00	0.00	0.00

Manual Integration:

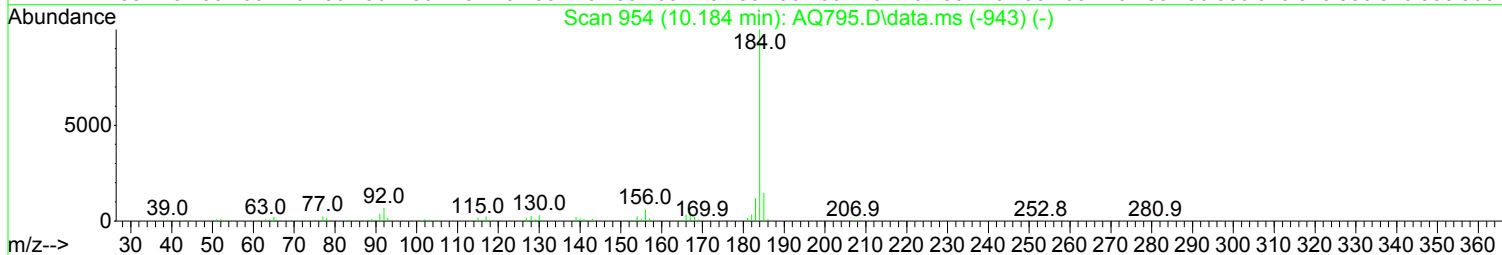
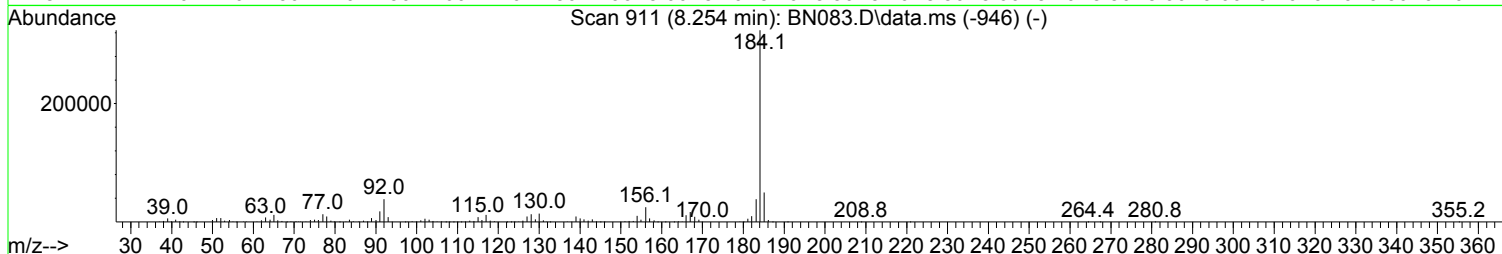
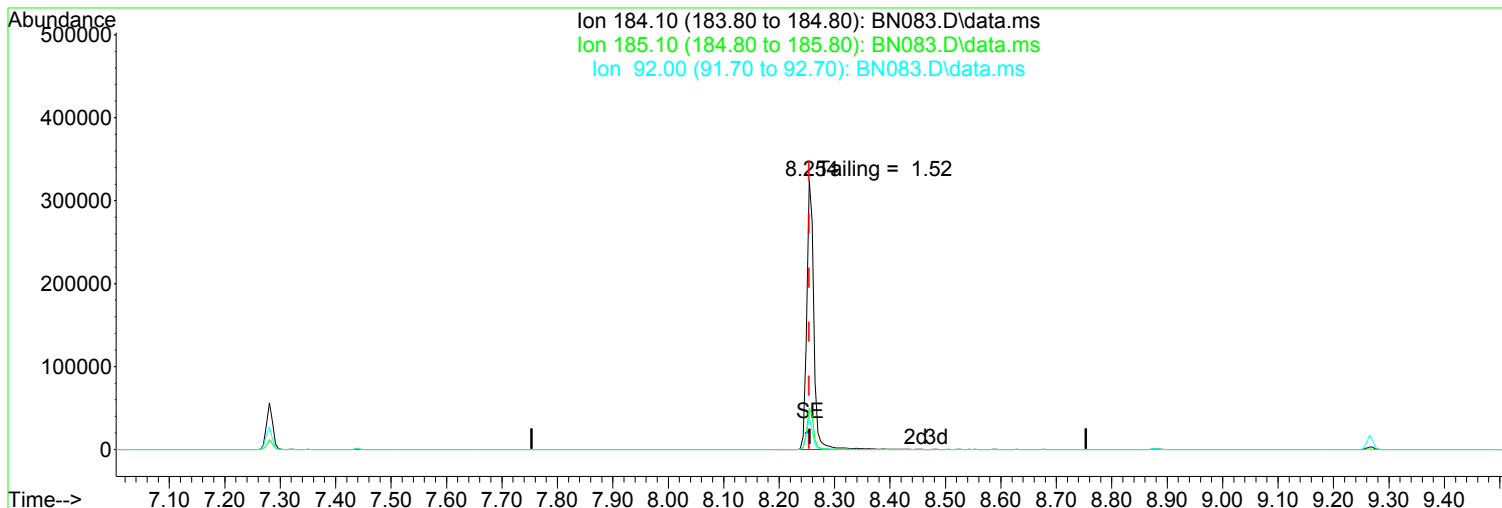
After

Other - Tailing

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN083.D  
Acq On : 23 Jan 2018 12:29 pm  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 08:44:17 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 08:43:55 2018  
Response via : Initial Calibration



TIC: BN083.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.254min ( 0.000) 50.00 ppm

After

response 286517

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	15.38
92.00	8.00	11.82
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN083.D  
 Acq On : 23 Jan 2018 12:29 pm  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

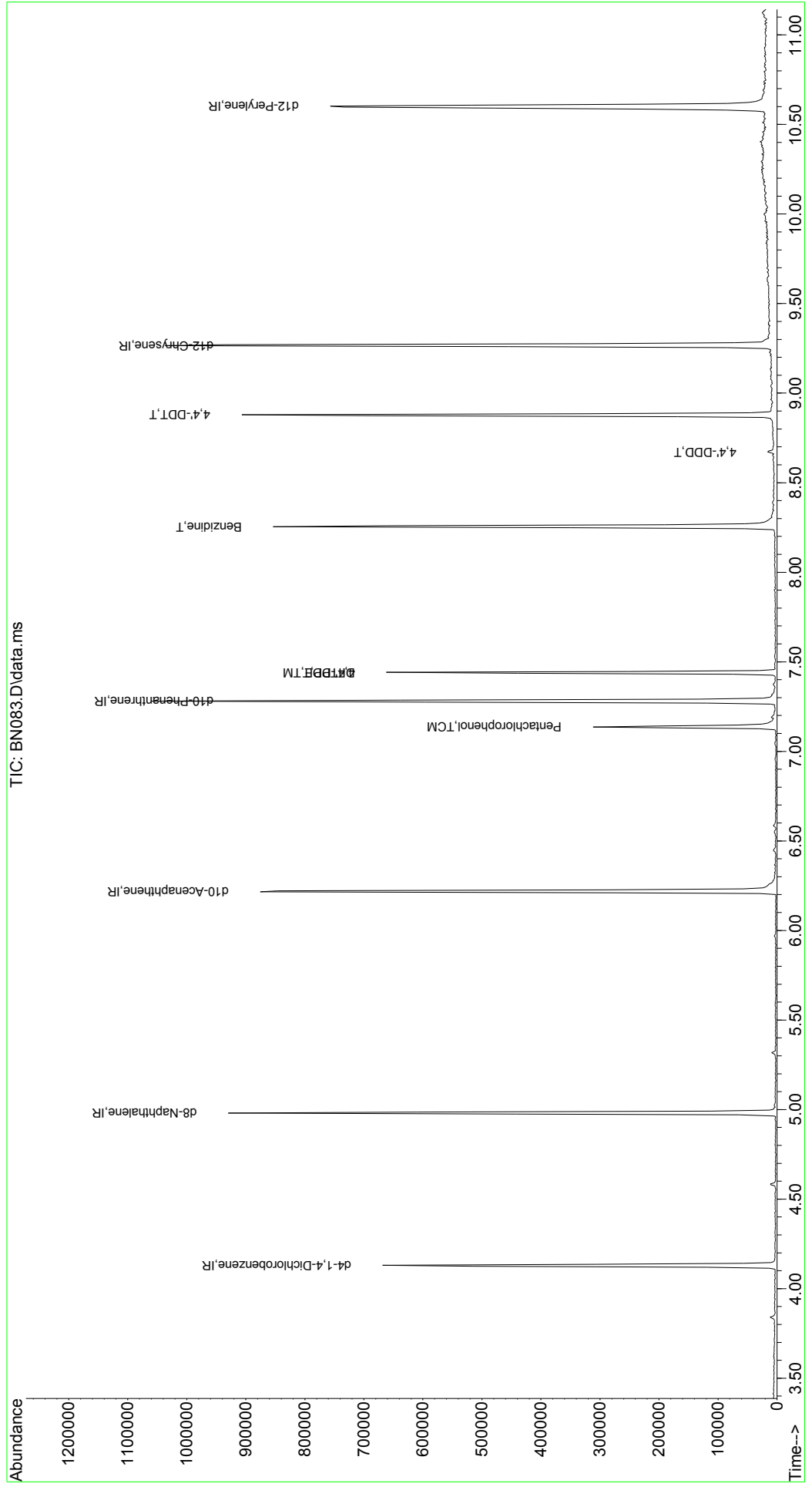
Quant Time: Jan 24 08:44:17 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.130	152	88881	40.00	ppm	0.00	
2) d8-Naphthalene	4.981	136	333498	40.00	ppm	0.00	
3) d10-Acenaphthene	6.216	164	170629	40.00	ppm	0.00	
4) d10-Phenanthrene	7.281	188	321023	40.00	ppm	0.00	
7) d12-Chrysene	9.265	240	307093	40.00	ppm	0.00	
12) d12-Perylene	10.602	264	324365	40.00	ppm	0.00	
Target Compounds							
5) Pentachlorophenol	7.136	266	31149	50.000	ppm		Qvalue 92
6) DFTPP	7.441	198	47595	50.000	ppm		90
8) Benzidine	8.254	184	286517	50.000	ppm		95
9) 4,4'-DDE	7.441	246	1092	0.451	ppm		91
10) 4,4'-DDD	8.671	235	1502	0.620	ppm		86
11) 4,4'-DDT	8.880	235	121096	50.000	ppm		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN083.D  
 Acq On : 23 Jan 2018 12:29 pm  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 08:44:17 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 08:43:55 2018  
 Response via : Initial Calibration

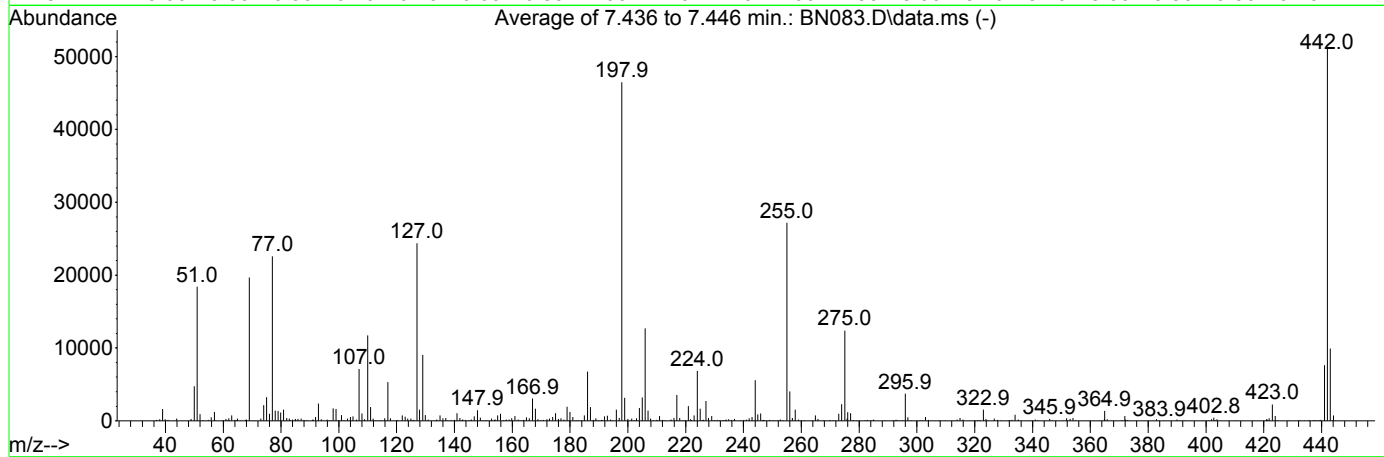
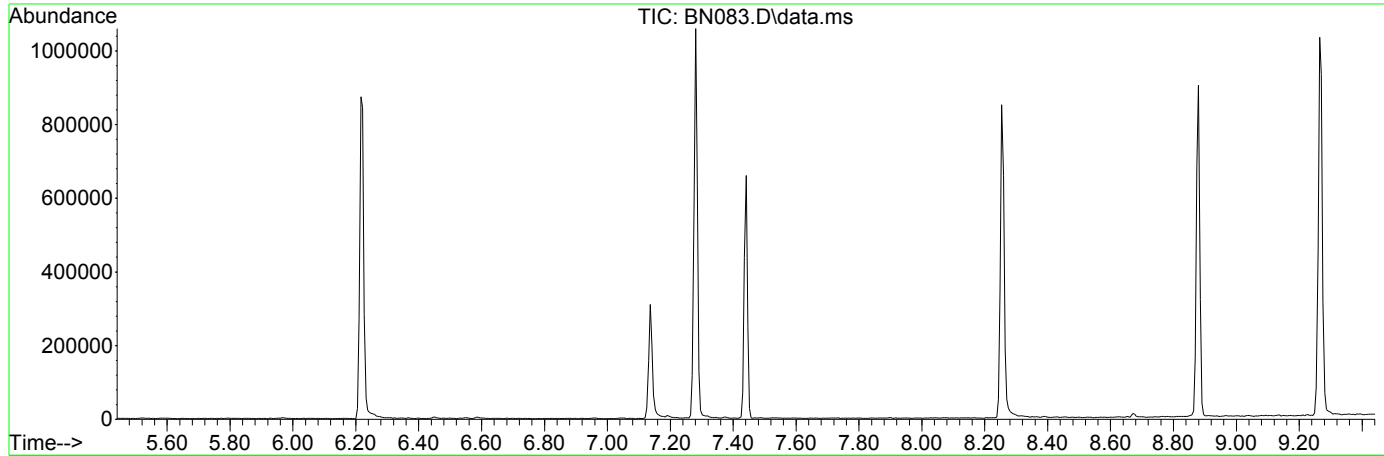




Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN083.D  
 Acq On : 23 Jan 2018 12:29 pm  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Tue Apr 01 09:41:30 2014



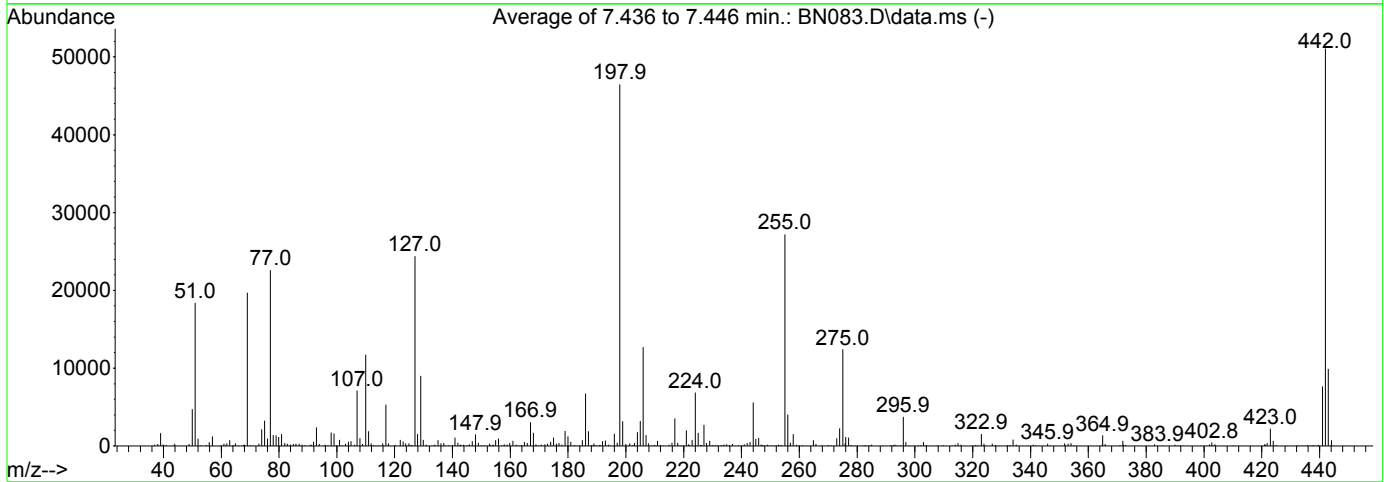
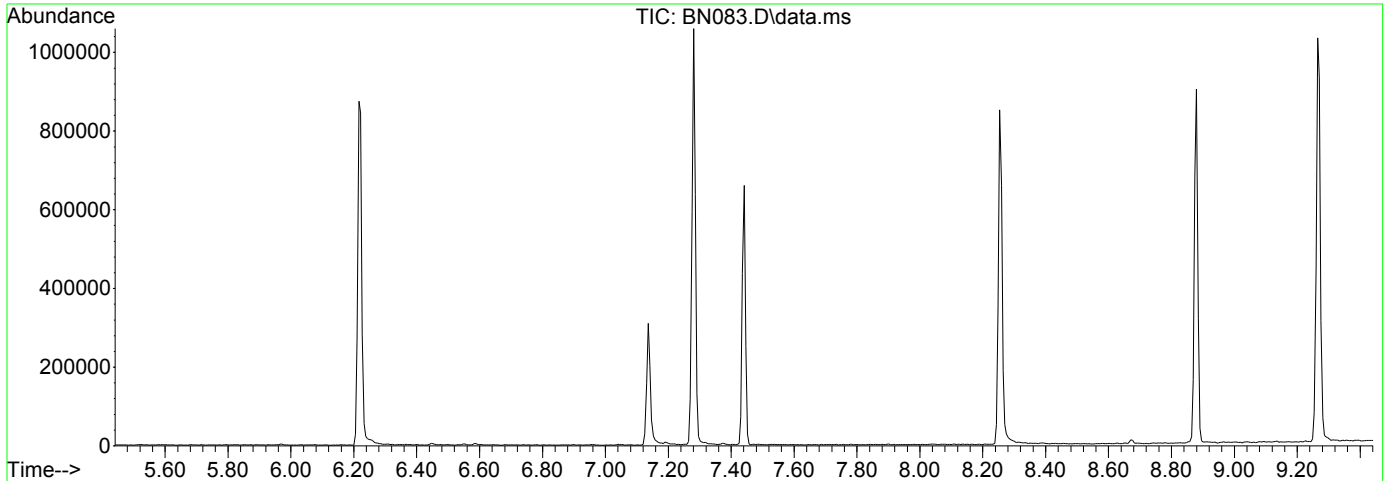
AutoFind: Scans 758, 759, 760; Background Corrected with Scan 753

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	39.6	18405	PASS
68	69	0.00	2	0.9	180	PASS
69	198	0.00	100	42.3	19686	PASS
70	69	0.00	2	0.3	64	PASS
127	198	40	60	52.5	24389	PASS
197	198	0.00	1	0.9	400	PASS
198	198	100	100	100.0	46488	PASS
199	198	5	9	6.8	3169	PASS
275	198	10	30	26.7	12405	PASS
365	198	1	500	2.9	1343	PASS
441	443	0.01	100	77.1	7654	PASS
442	198	50	500	109.9	51085	PASS
443	442	17	23	19.4	9930	PASS

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN083.D  
 Acq On : 23 Jan 2018 12:29 pm  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 08:43:55 2018



AutoFind: Scans 758, 759, 760; Background Corrected with Scan 753

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.6	18405	PASS
68	69	0.00	2	0.9	180	PASS
70	69	0.00	2	0.3	64	PASS
127	198	10	80	52.5	24389	PASS
197	198	0.00	2	0.9	400	PASS
198	198	100	100	100.0	46488	PASS
199	198	5	9	6.8	3169	PASS
275	198	10	60	26.7	12405	PASS
365	198	1	500	2.9	1343	PASS
441	442	0.01	24	15.0	7654	PASS
442	442	100	100	100.0	51085	PASS
443	442	15	24	19.4	9930	PASS

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN084.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : BLK  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 10:02:39 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 09:08:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.849	152	92117	40.00	ppm	0.00
33) d8-Naphthalene	6.010	136	338927	40.00	ppm	0.00
57) d10-Acenaphthene	7.716	164	167058	40.00	ppm	0.00
91) d10-Phenanthrene	9.187	188	303361	40.00	ppm	0.00
117) d12-Chrysene	12.503	240	288484	40.00	ppm	0.00
135) d12-Perylene	15.471	264	283805	40.00	ppm	0.00

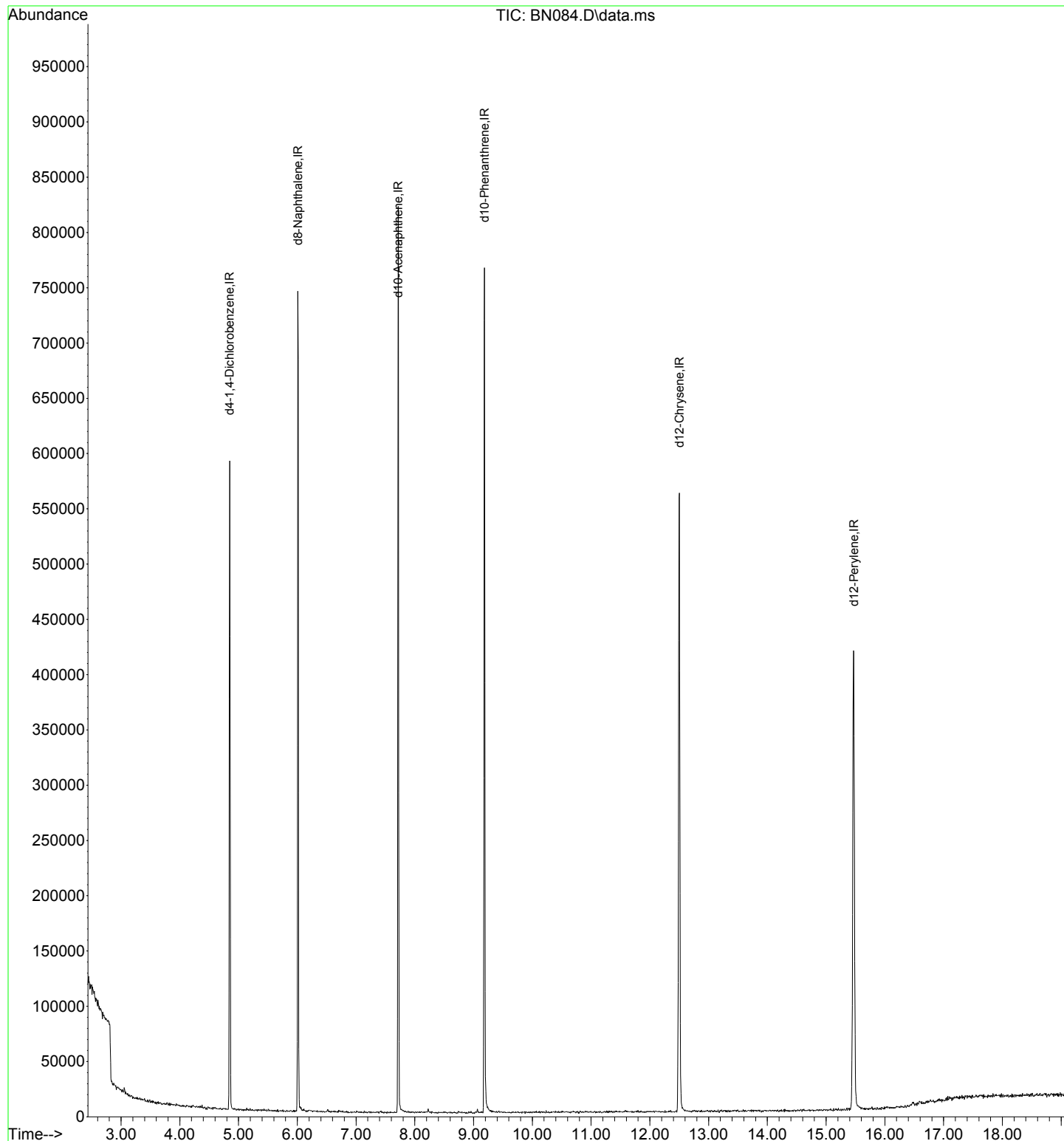
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	0.00%#
12) SURR2,PHENOL-D6	0.000	99	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	0.00%#
34) SURR4,NITROBENZENE-D5	0.000	82	0	0.00	ppm	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	0.00%#
63) SURR5,2-FLUOROBIPHENYL	0.000	172	0	0.00	ppm	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	0.00%#
88) SURR3,2,4,6-TRIBROMOPH...	0.000	330	0	0.00	ppm	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.00%#
124) SURR6,TERPHENYL-D14	0.000	244	0	0.00	ppm	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	0.00%#

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

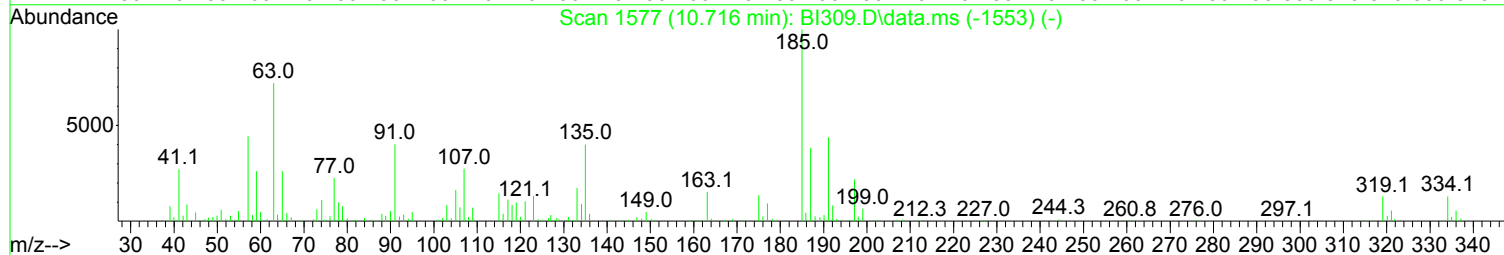
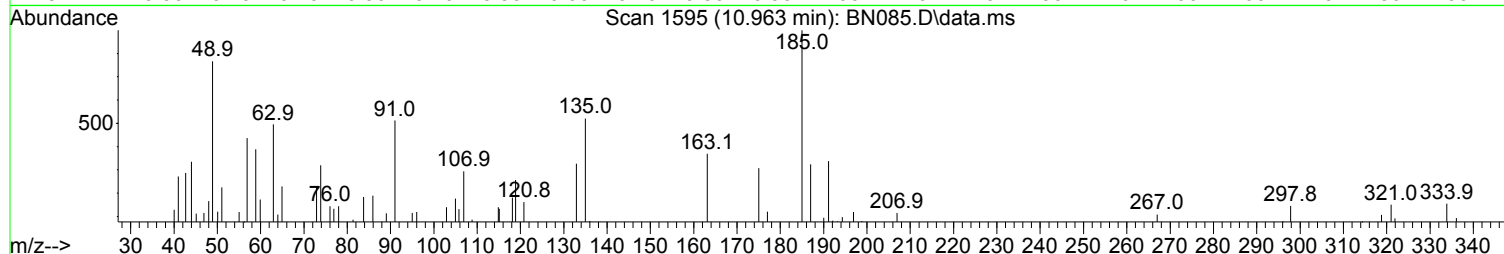
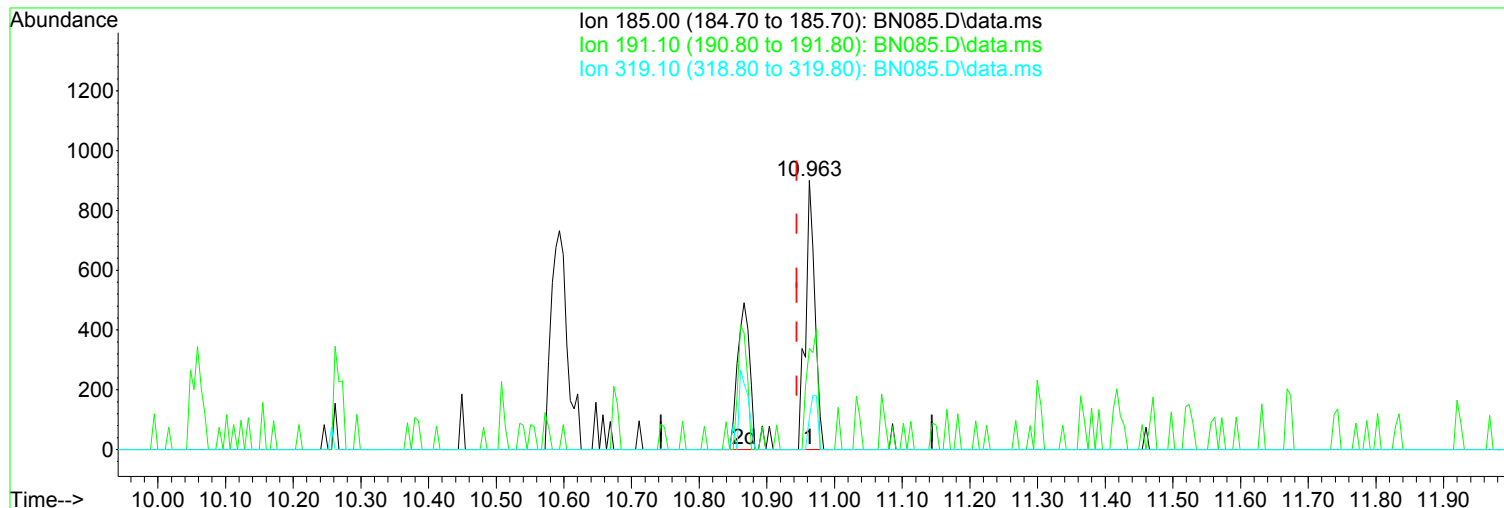
Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN084.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : BLK  
Misc : Initial Calibration 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 10:02:39 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN085.D  
Acq On : 23 Jan 2018 1:16 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.963min (+ 0.019) 1.69 ppm m

After

response 1520

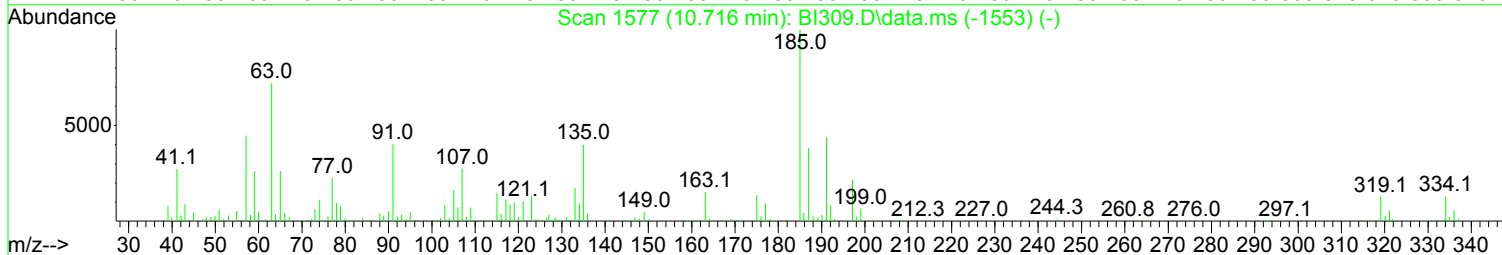
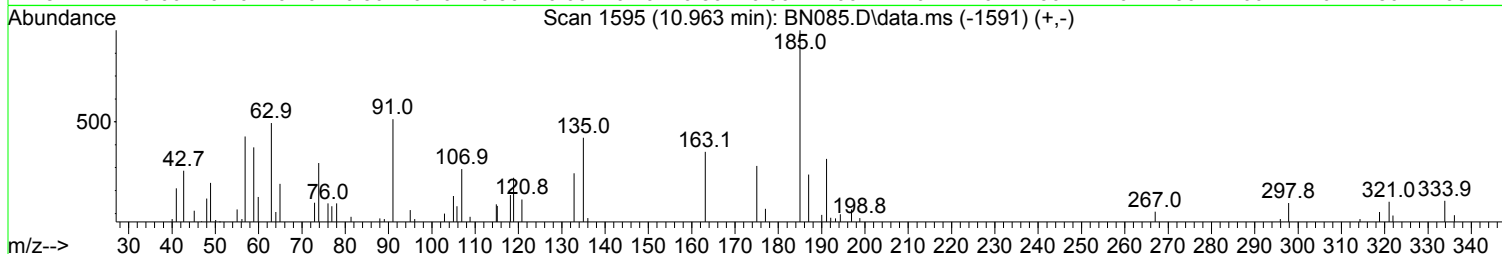
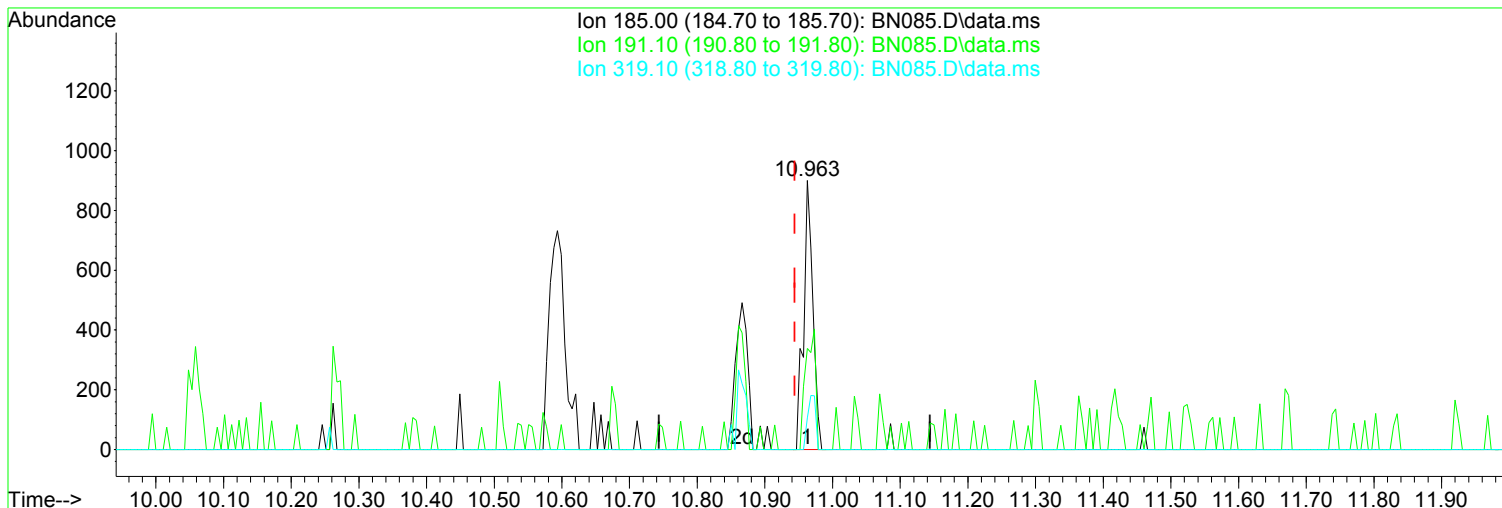
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	37.56
319.10	16.50	11.78
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN085.D  
Acq On : 23 Jan 2018 1:16 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN085.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.963min (+ 0.019) 0.96 ppm

Before

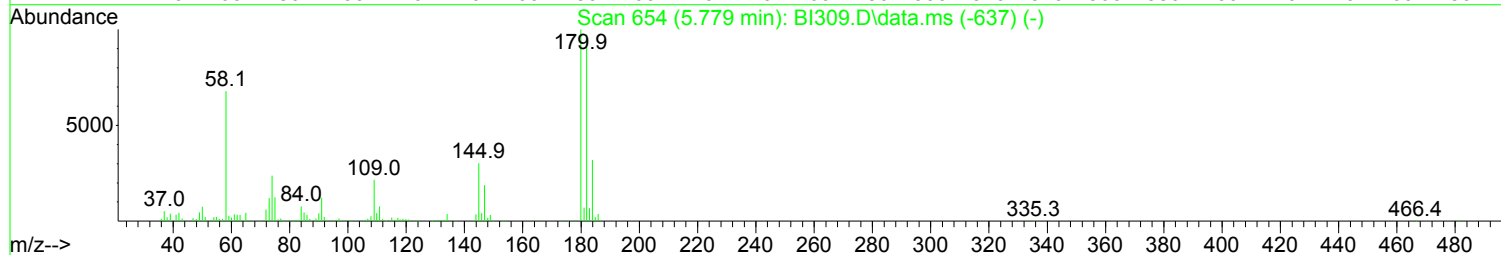
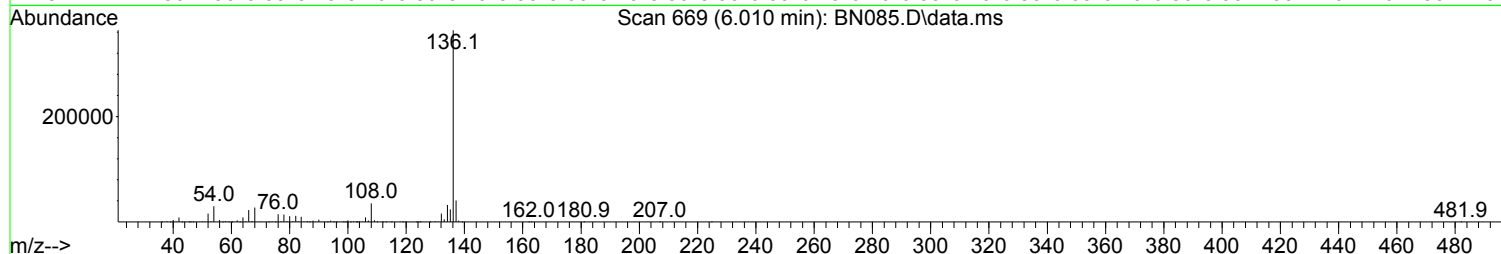
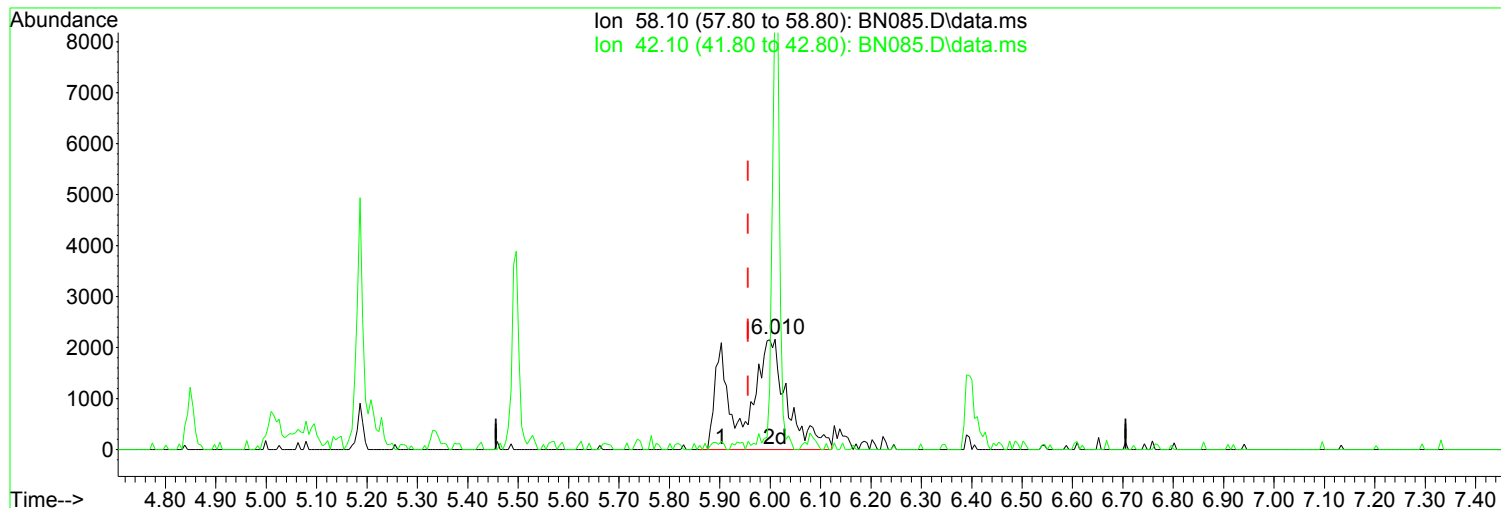
response 863

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	37.56
319.10	16.50	11.78
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN085.D  
Acq On : 23 Jan 2018 1:16 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.054) 2.39 ppm m

After

response 13276

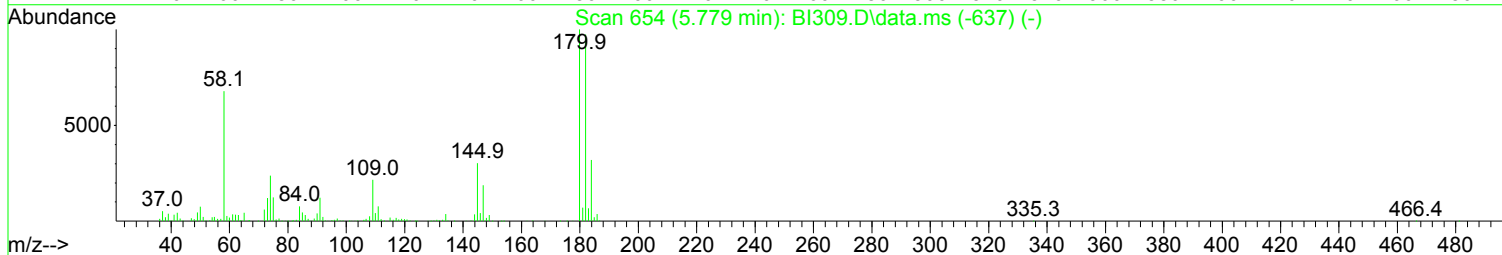
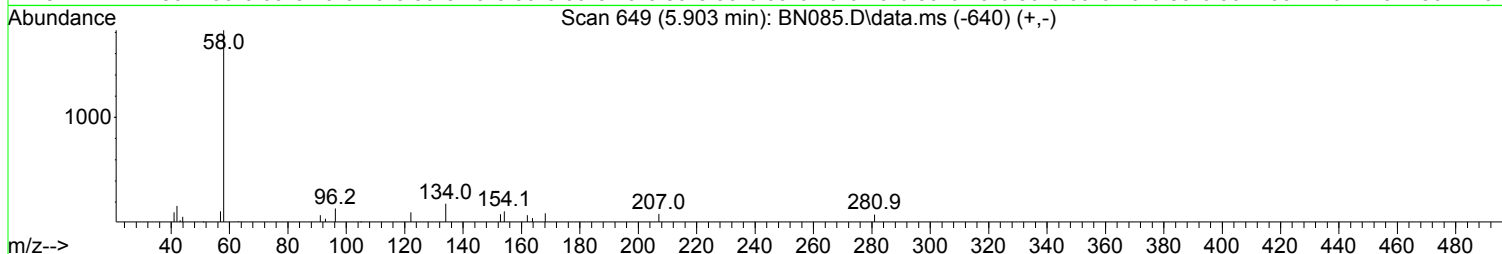
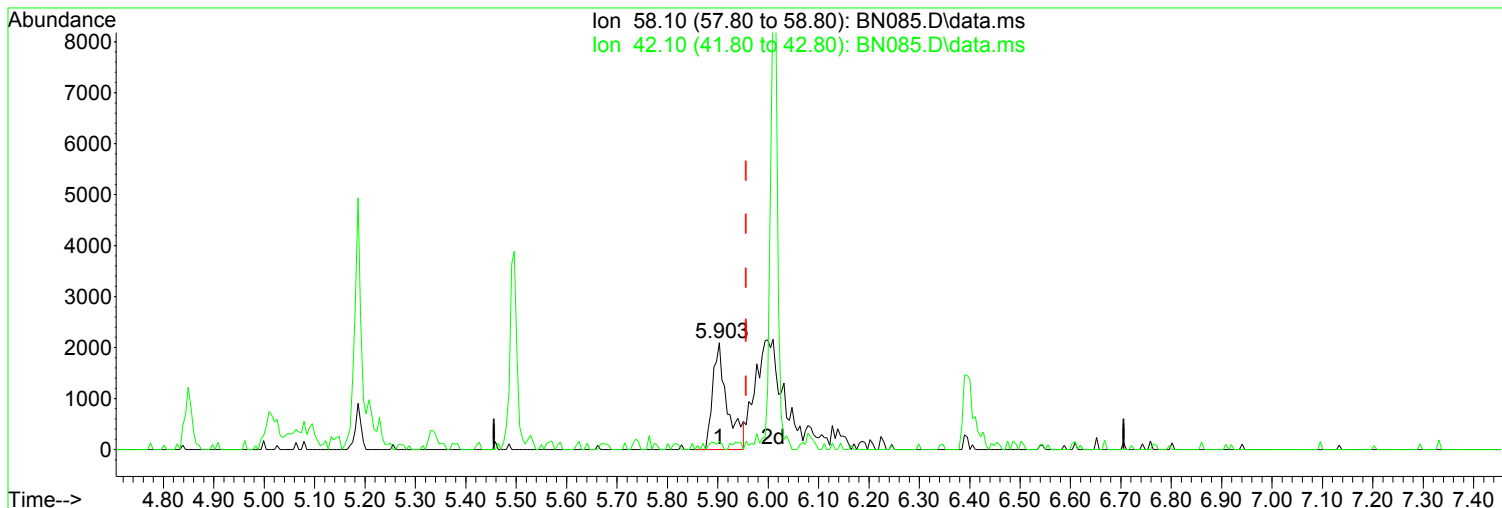
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	405.91#
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN085.D  
Acq On : 23 Jan 2018 1:16 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN085.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.903min (-0.053) 0.76 ppm

Before

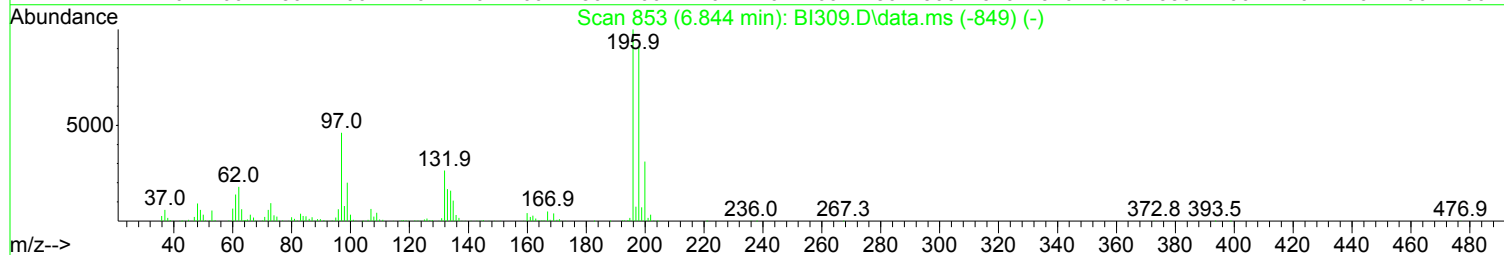
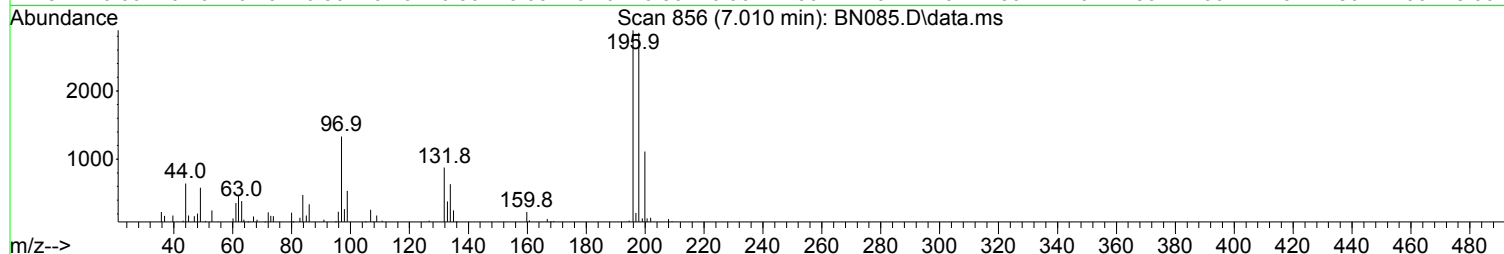
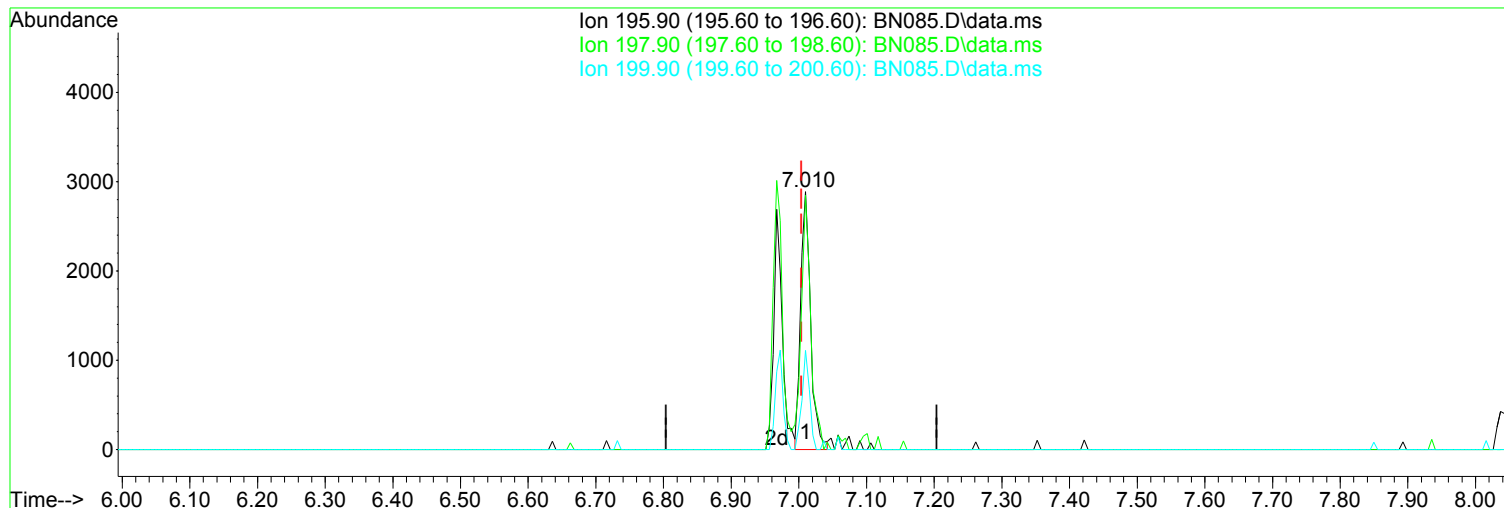
response 4224

Ion	Exp%	Act%	
58.10	100.00	100.00	01/24/18
42.10	20.50	9.01	
0.00	0.00	0.00	
0.00	0.00	0.00	



Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN085.D  
 Acq On : 23 Jan 2018 1:16 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



TIC: BN085.D\data.ms

(62) 2,4,5-Trichlorophenol (TM)

Manual Integration:

7.010min (+ 0.006) 1.74 ppm m

After

response 2960

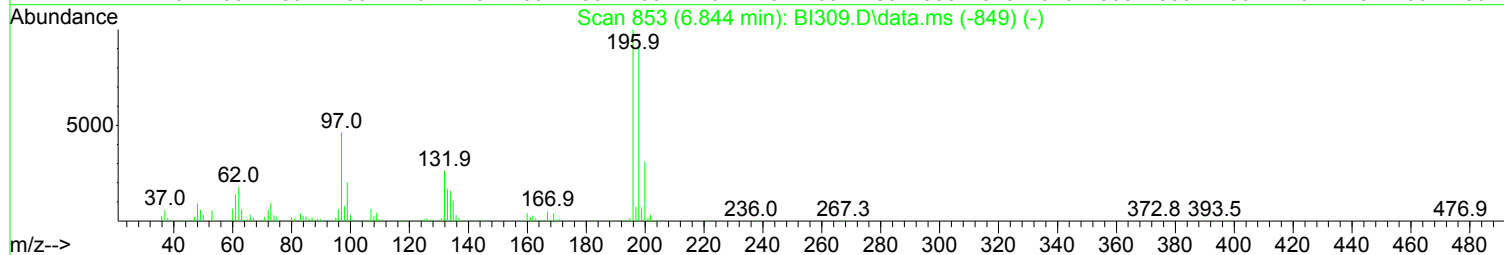
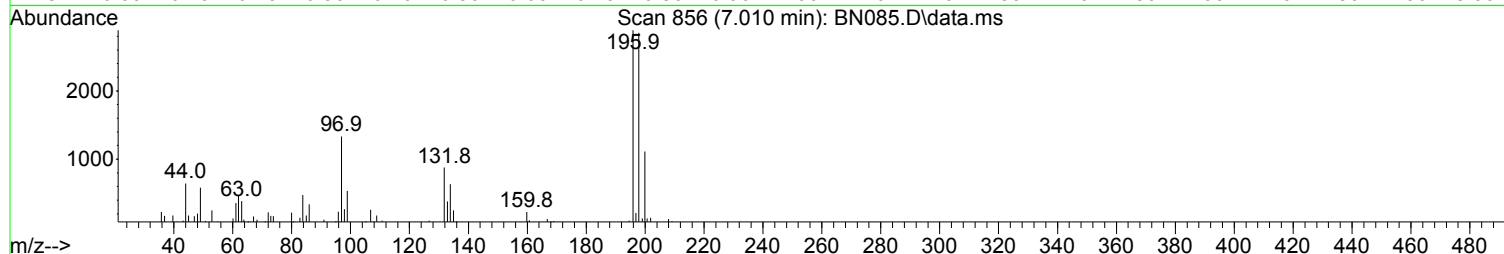
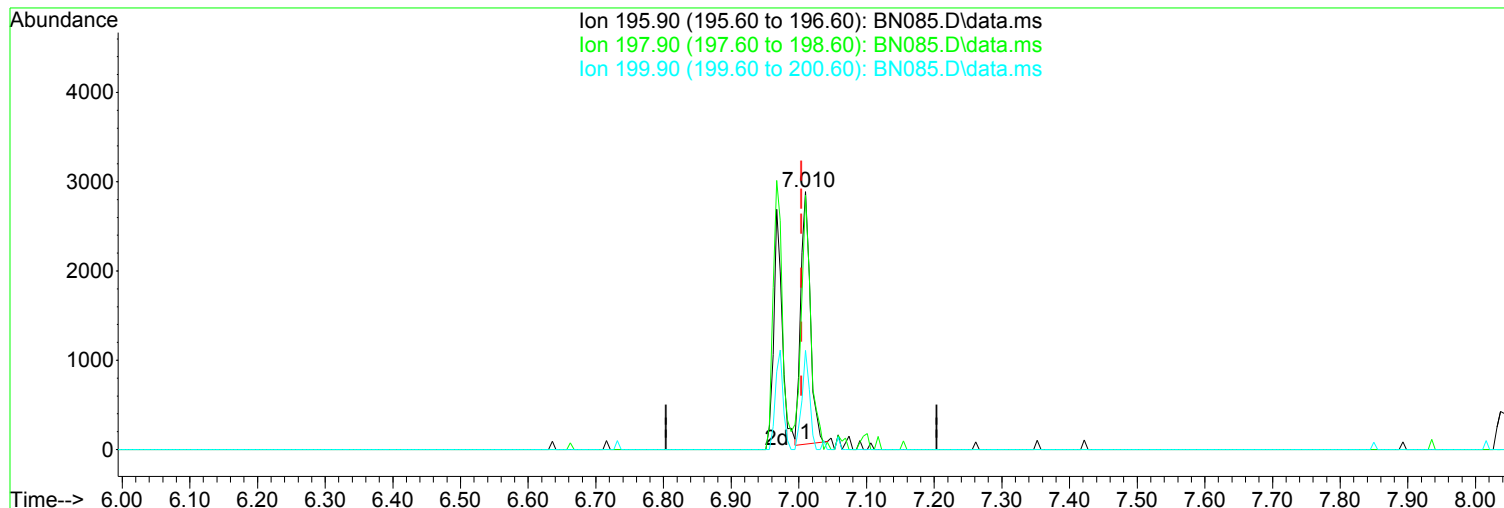
Poor integration.

Ion	Exp%	Act%
195.90	100.00	100.00
197.90	91.30	98.68
199.90	31.20	38.46
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN085.D  
Acq On : 23 Jan 2018 1:16 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN085.D\data.ms

(62) 2,4,5-Trichlorophenol (TM)

Manual Integration:

7.010min (+ 0.006) 1.62 ppm

Before

response 2767

Ion	Exp%	Act%
195.90	100.00	100.00
197.90	91.30	98.68
199.90	31.20	38.46
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN085.D  
 Acq On : 23 Jan 2018 1:16 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.849	152	91833	40.00	ppm	0.00
33) d8-Naphthalene	6.015	136	357299	40.00	ppm	0.00
57) d10-Acenaphthene	7.716	164	180665	40.00	ppm	0.00
91) d10-Phenanthrene	9.187	188	306846	40.00	ppm	0.00
117) d12-Chrysene	12.498	240	295329	40.00	ppm	0.00
135) d12-Perylene	15.466	264	305180	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.790	112	6855	2.46	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	1.23%#
12) SURR2,PHENOL-D6	4.502	99	7078	2.07	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	1.03%#
34) SURR4,NITROBENZENE-D5	5.336	82	5262	1.83	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	1.83%#
63) SURR5,2-FLUOROBIPHENYL	7.053	172	15925	2.35	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	2.35%#
88) SURR3,2,4,6-TRIBROMOPH...	8.492	330	1781	1.83	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.92%#
124) SURR6,TERPHENYL-D14	10.893	244	14724	2.39	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	2.39%#

Target Compounds						Qvalue
2) Pyridine	2.897	79	5580	2.045	ppm	94
3) N-Nitrosodimethylamine	2.849	74	2590	3.608	ppm	# 46
4) 2-Picoline	3.400	93	6883	2.387	ppm	89
5) N-Nitrosomethylamine	3.453	42	3106	2.235	ppm	75
6) Methyl Methansulfonate	3.672	80	3474	2.378	ppm	86
8) N-Nitrosodiethylamine	3.972	102	3333	2.260	ppm	78
9) Ethyl Mathanesulfonate	4.197	79	5197	2.565	ppm	91
10) Benzaldehyde	4.485	106	9318	5.575	ppm	93
11) Aniline	4.566	93	11266	2.284	ppm	92
13) Phenol	4.518	94	8047	2.404	ppm	95
14) bis(2-Clethyl)Ether	4.608	93	6760	2.716	ppm	95
15) Pentachloroethane	4.614	117	2529	2.355	ppm	84
16) 2-Chlorophenol	4.667	128	7252	2.523	ppm	90
17) 1,3-Diclbzene	4.806	146	8351	2.568	ppm	90
18) 1,4-Dichlorobenzene	4.865	146	8488	2.542	ppm	96
19) 1,2-Diclbzene	4.999	146	7855	2.518	ppm	94
20) Benzyl Alcohol	4.956	79	4708	2.110	ppm	90
21) 1-Methyl-2-pyrrolidinone	5.010	99	3180	1.793	ppm	# 86
22) 2,2'-oxybis(1-Chloropr...	5.074	45	6528	2.554	ppm	86
23) 2-Methylphenol	5.042	108	6177	2.457	ppm	97
24) 3+4-Methylphenol	5.181	108	5740	2.112	ppm	96
25) Acetophenone	5.197	105	9753	2.441	ppm	93
26) N-Nitroso-Di-n-propyla...	5.186	70	4880	2.413	ppm	93
27) N-Nitrosopyrrolidine	5.186	100	2973	2.002	ppm	# 49
28) N-Nitrosomorpholine	5.213	56	3457	2.162	ppm	83
29) o-Toluidine	5.229	106	11737	2.594	ppm	98
30) Hexachloroethane	5.298	117	3332	2.484	ppm	95
31) o,o-Triethylphosphor...	5.737	198	3115	2.351	ppm	99
32) Alpha-terpinol	6.031	121	2130	2.045	ppm	87
35) Nitrobenzene	5.352	77	5391	1.892	ppm	84
36) N-Nitrosopiperidine	5.496	42	3830	2.201	ppm	90
37) Isophorone	5.571	82	12046	2.319	ppm	98
38) 2-Nitrophenol	5.646	139	2156	2.755	ppm	95

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN085.D  
 Acq On : 23 Jan 2018 1:16 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.716	105	2038	0.924	ppm	97
40) 2,4-Dimethylphenol	5.678	107	6533	2.248	ppm	96
41) bis(-2-Chloroethoxy)Me...	5.769	93	7868	2.487	ppm	97
42) 2,4-Dichlorophenol	5.876	162	4381	1.851	ppm	87
43) a,a-Dimethylphenethyla...	6.010	58	13276m	2.392	ppm	
44) 1,2,4-Trichlorobenzene	5.951	180	6896	2.560	ppm	# 79
45) Naphthalene	6.031	128	22432	2.492	ppm	97
46) 4-Chloroaniline	6.085	127	9247	2.161	ppm	97
47) 2,6-Dichlorophenol	6.090	162	5735	2.197	ppm	93
48) Hexachlorobutadiene	6.144	225	3684	2.305	ppm	82
49) Hexachloropropene	6.117	213	4090	2.188	ppm	90
50) 4-Chloro-3-methylphenol	6.539	107	5020	2.104	ppm	# 71
51) N-N-di-n-butylamine	6.395	84	5620	2.750	ppm	93
52) Caprolactam	6.406	113	1393	1.598	ppm	# 74
54) Safrole	6.609	162	5706	2.213	ppm	92
55) 2-Methylnaphthalene	6.694	142	14328	2.416	ppm	90
56) 1-Methylnaphthalene	6.796	142	13036	2.339	ppm	98
58) Hexachlorocyclopentadiene	6.850	237	3012	1.924	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.860	216	6674	2.282	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.133	216	6110	2.179	ppm	96
61) 2,4,6-Trichlorophenol	6.967	196	2383	1.417	ppm	85
62) 2,4,5-Trichlorophenol	7.010	196	2960m	1.737	ppm	
64) Isosafrole	7.112	104	2432	2.142	ppm	92
65) 1,1'-Biphenyl	7.149	154	16748	2.259	ppm	96
66) 2-Chloronaphthalene	7.170	162	14313	2.593	ppm	96
67) 2-Nitroaniline	7.267	65	1943	3.159	ppm	77
68) 1,4-Naphthoquinone	7.347	158	3023	1.749	ppm	98
69) m-Dinitrobenzene	7.475	168	1006	2.665	ppm	91
70) Acenaphthylene	7.577	152	19402	2.228	ppm	94
71) Dimethyl phthalate	7.443	163	14336	2.287	ppm	98
72) 2,6-Dinitrotoluene	7.502	165	1970	1.584	ppm	95
73) Acenaphthene	7.748	153	15047	2.457	ppm	96
74) 3-Nitroaniline	7.679	138	1790	1.817	ppm	79
75) 2,4-Dinitrophenol	7.780	184	339	2.728	ppm	82
76) Dibenzofuran	7.919	168	19008	2.394	ppm	97
77) 2,4-Dinitrotoluene	7.898	165	1972	3.189	ppm	75
78) 4-Nitrophenol	7.844	65	1085	3.364	ppm	# 48
79) Pentachlorobenzene	7.877	250	6403	2.565	ppm	99
80) 1-Naphthylamine	8.000	143	8585	2.310	ppm	85
81) 2-Naphthylamine	8.074	143	11434	2.233	ppm	92
82) 2,3,4,6-Tetrachlorophenol	8.037	232	1936	1.531	ppm	66
83) Fluorene	8.256	166	15006	2.359	ppm	99
84) 4-Chlorophenyl-phenyle...	8.256	204	7399	2.653	ppm	90
85) Diethylphthalate	8.139	149	13839	2.171	ppm	93
86) 4-Nitroaniline	8.278	138	2219	2.958	ppm	92
87) 5-Nitro-o-toluidine	8.267	152	2085	2.759	ppm	90
89) Sulfotepp	8.524	322	1778	1.955	ppm	88
90) Octachlorocyclopentene	8.502	307	2013	2.120	ppm	93
92) Thionazin	8.219	107	2047	2.234	ppm	89
93) 4,6-Dinitro-2-methylph...	8.299	198	595	3.423	ppm	# 58
94) Diphenylamine	8.369	169	21166	4.683	ppm	97
95) 1,2 Diphenylhydrazine	8.411	77	13747	2.370	ppm	91
96) N-Nitrosodiphenylamine	8.369	169	21166	4.682	ppm	97
97) 1,3,5-Trinirobenzene	8.625	213	401	4.549	ppm	# 61
98) Diallate	8.652	86	5007	2.586	ppm	78
99) Phorate	8.663	121	1907	1.967	ppm	94

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN085.D  
 Acq On : 23 Jan 2018 1:16 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

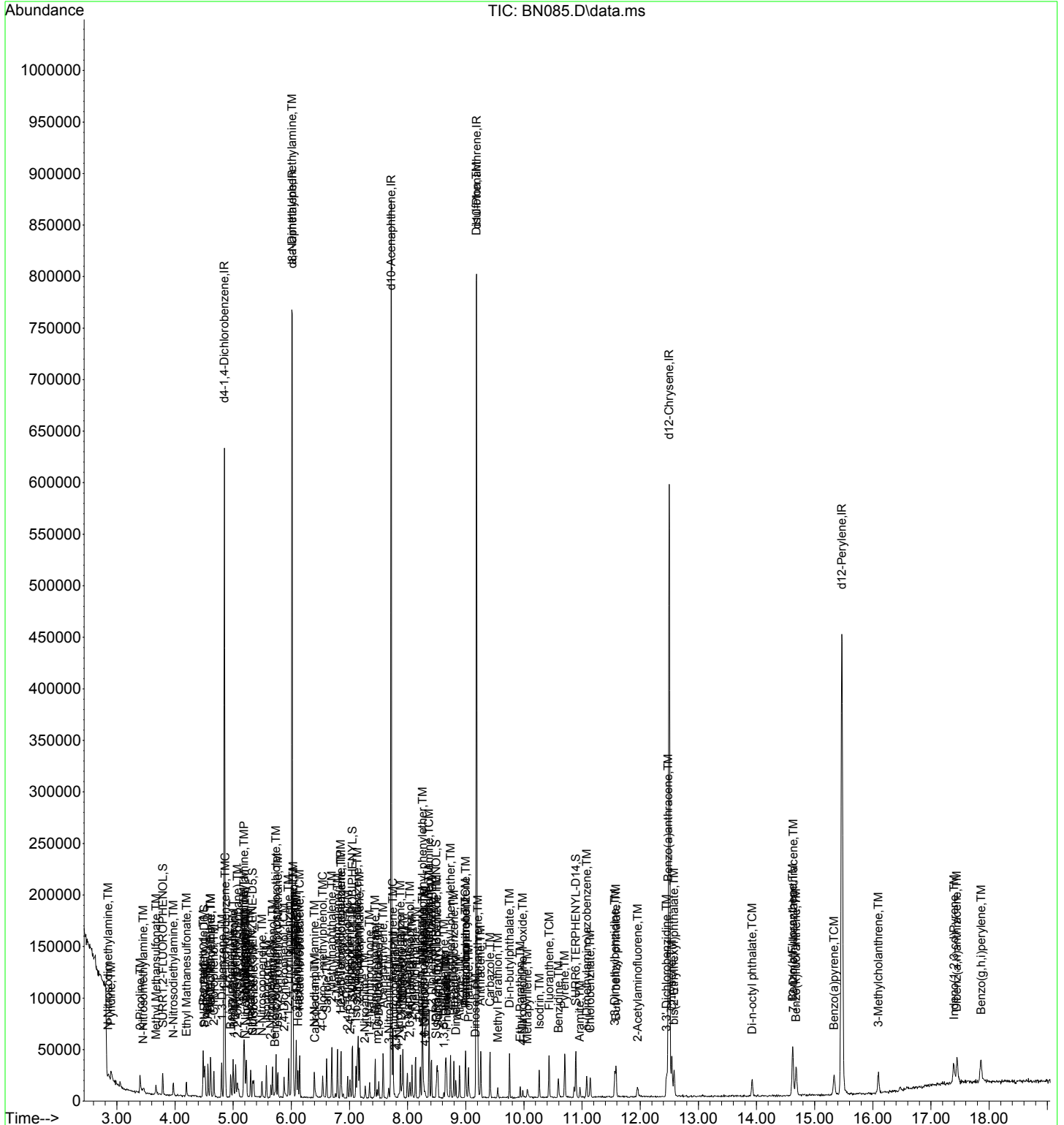
Quant Time: Jan 24 08:48:08 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.673	108	5091	1.752	ppm	90
101) 4-Bromophenyl-phenylether	8.738	248	3737	2.410	ppm #	87
102) Hexachlorobenzene	8.796	284	4815	2.500	ppm	92
103) Dimethoate	8.829	87	3339	2.018	ppm	93
104) Atrazine	8.893	215	1904	2.178	ppm #	75
105) Pentachlorophenol	8.994	266	1518	1.234	ppm	99
106) 4-Aminobiphenyl	8.994	169	11532	1.941	ppm	99
107) Pentachloronitrobenzene	9.000	237	885	1.235	ppm	92
108) Pronamide	9.048	173	4661	1.790	ppm	94
109) Dinoseb	9.166	211	1090	1.110	ppm	95
110) Disulfoton	9.182	88	6422	3.451	ppm	69
111) Phenanthrene	9.208	178	19993	2.469	ppm	97
112) Anthracene	9.256	178	18188	2.285	ppm	96
113) Carbazole	9.417	167	16984	2.053	ppm	91
114) Di-n-butylphthalate	9.754	149	19392	1.926	ppm	97
115) 4-Nitroquinoline-1-oxide	9.979	190	457	0.717	ppm	77
116) Fluoranthene	10.433	202	18407	2.128	ppm	97
118) Methyl Parathion	9.551	109	1595	1.412	ppm	68
119) Ethyl Parathion	9.936	97	1237	5.900	ppm	98
120) Methapyrilene	10.059	58	3687	1.921	ppm	82
121) Isodrin	10.267	193	2073	2.616	ppm	84
122) Benzidine	10.594	184	10259	1.981	ppm	95
123) Pyrene	10.701	202	19935	2.366	ppm	97
125) Aramite	10.963	185	1520m	1.687	ppm	
126) p-(Dimethylamino)azobe...	11.080	120	4578	1.902	ppm	93
127) Chlorobenzilate	11.139	139	4253	1.739	ppm	90
128) Butyl benzyl phthalate	11.583	149	8632	1.994	ppm	95
129) 3,3-Dimethylbenzidine	11.562	212	10576	1.855	ppm	90
130) 2-Acetylaminofluorene	11.952	181	4127	1.276	ppm	86
131) 3,3'-Dichlorobenzidine	12.450	252	7005	1.927	ppm	93
132) Benzo(a)anthracene	12.482	228	19315	2.340	ppm	97
133) Chrysene	12.541	228	18977	2.419	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.583	149	10978	1.829	ppm	94
136) Di-n-octyl phthalate	13.926	149	13882	3.623	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.632	256	7326	1.827	ppm	83
138) Benzo(b)Fluoranthene	14.621	252	17442	1.986	ppm	95
139) Benzo(k)fluoranthene	14.680	252	19757	2.328	ppm	97
140) Benzo(a)pyrene	15.333	252	13984	1.910	ppm	85
141) 3-Methylcholanthrene	16.097	268	7243	1.759	ppm	87
142) Indeno(1,2,3-cd)Pyrene	17.397	276	14286	2.214	ppm	81
143) Dibenz(a,h)anthracene	17.445	278	17175	2.335	ppm	93
144) Benzo(g,h,i)perylene	17.862	276	16881	2.532	ppm	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

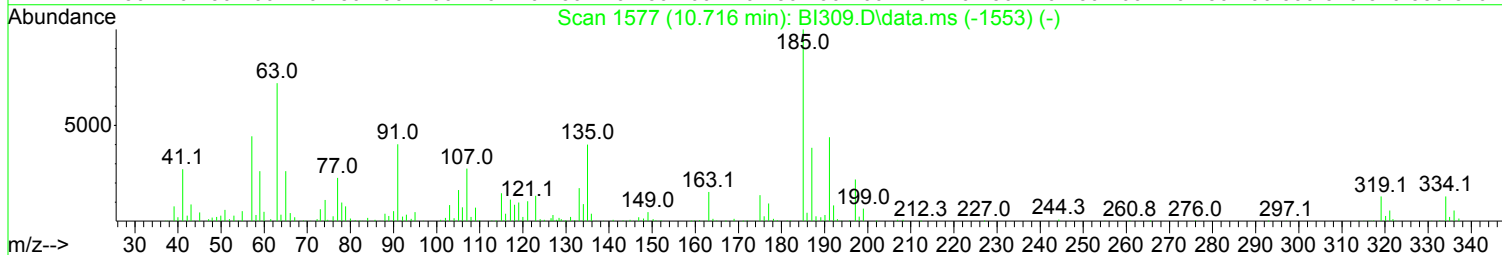
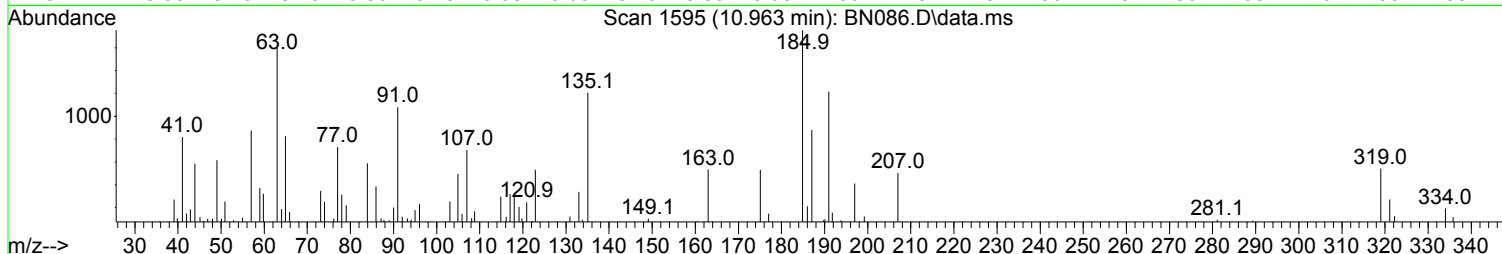
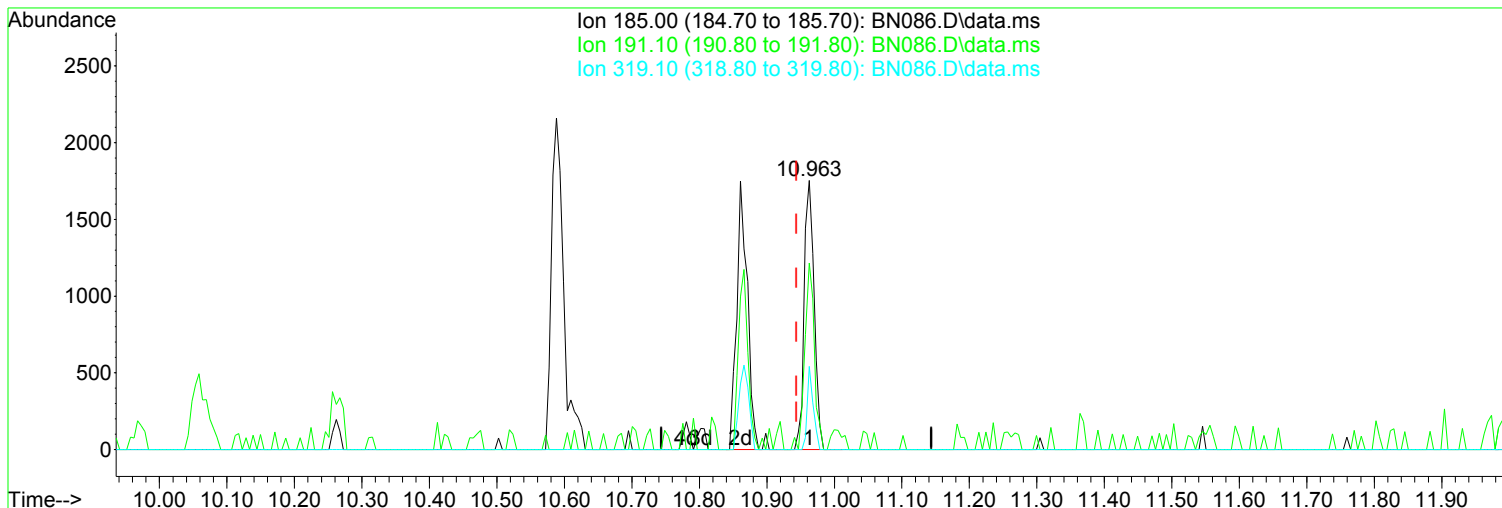
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Data File : BN085.D  
Acq On : 23 Jan 2018 1:16 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 08:48:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN086.D  
 Acq On : 23 Jan 2018 1:45 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



TIC: BN086.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.963min (+ 0.019) 4.25 ppm m

After

response 3762

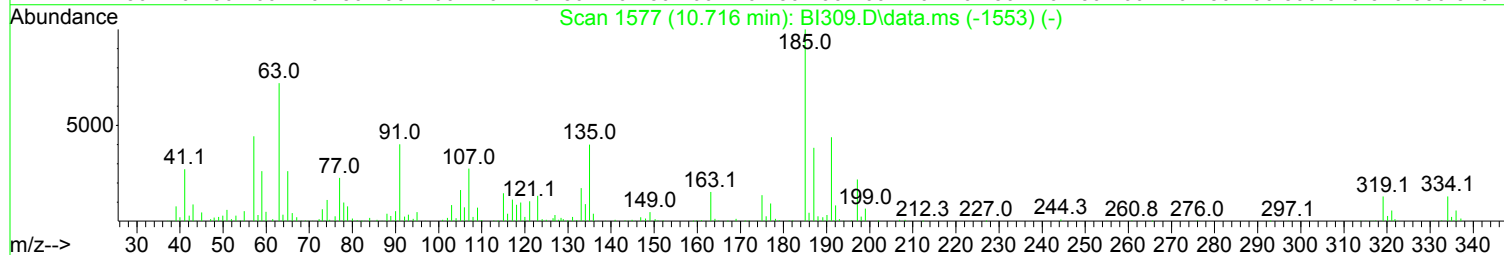
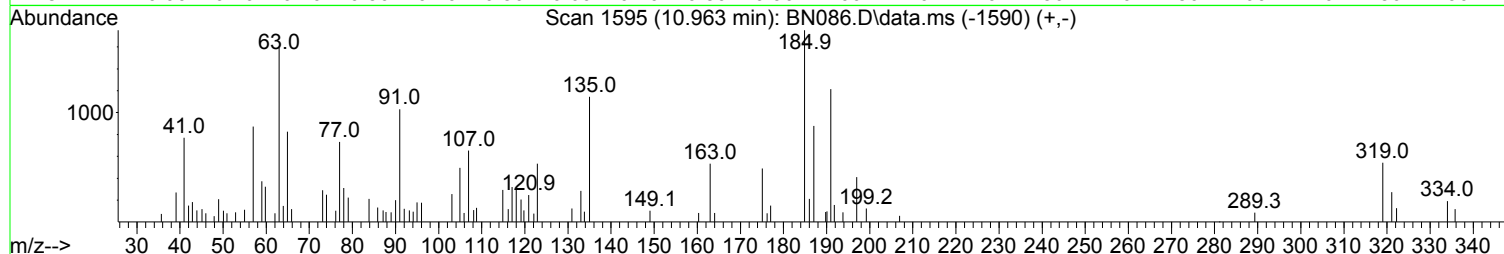
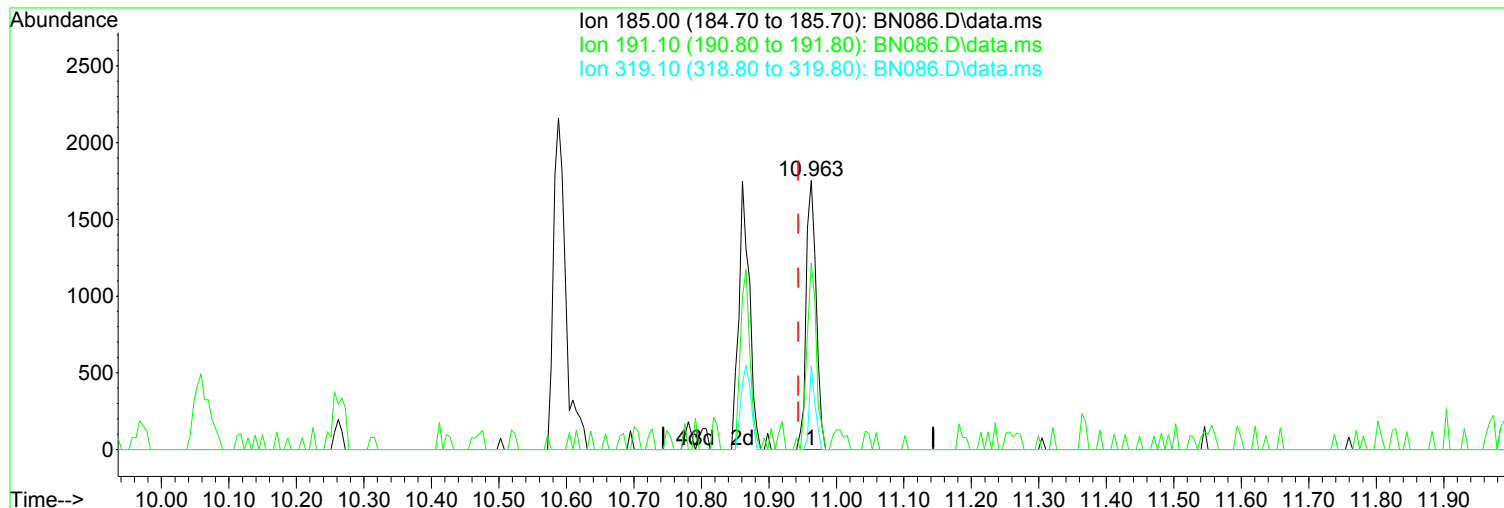
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	69.37
319.10	16.50	30.92
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN086.D  
Acq On : 23 Jan 2018 1:45 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN086.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.963min (+ 0.019) 2.04 ppm

Before

response 1800

Ion Exp% Act%

01/24/18

185.00 100.00 100.00

191.10 44.30 78.27

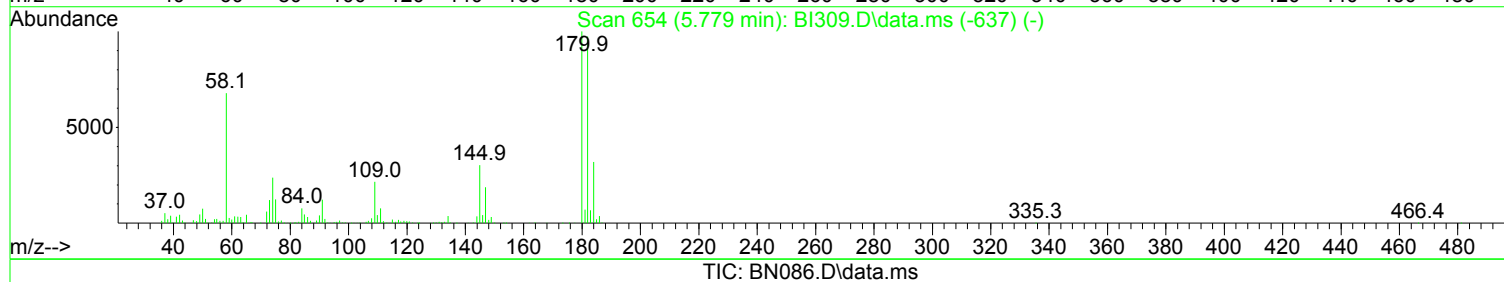
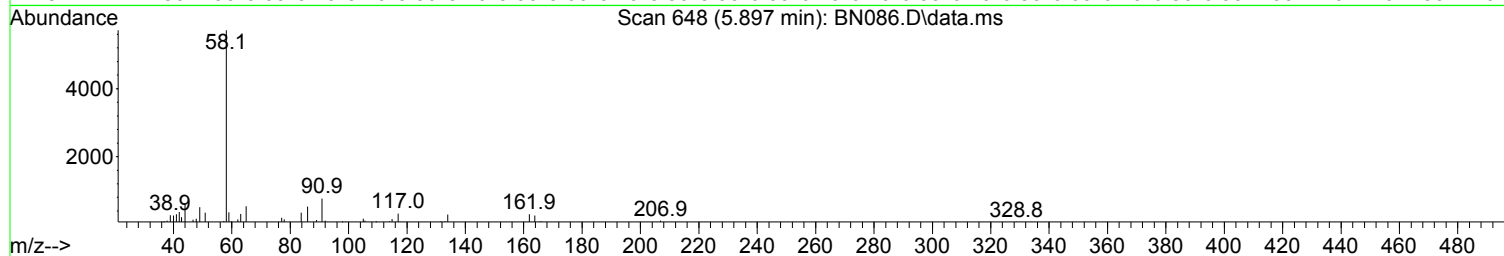
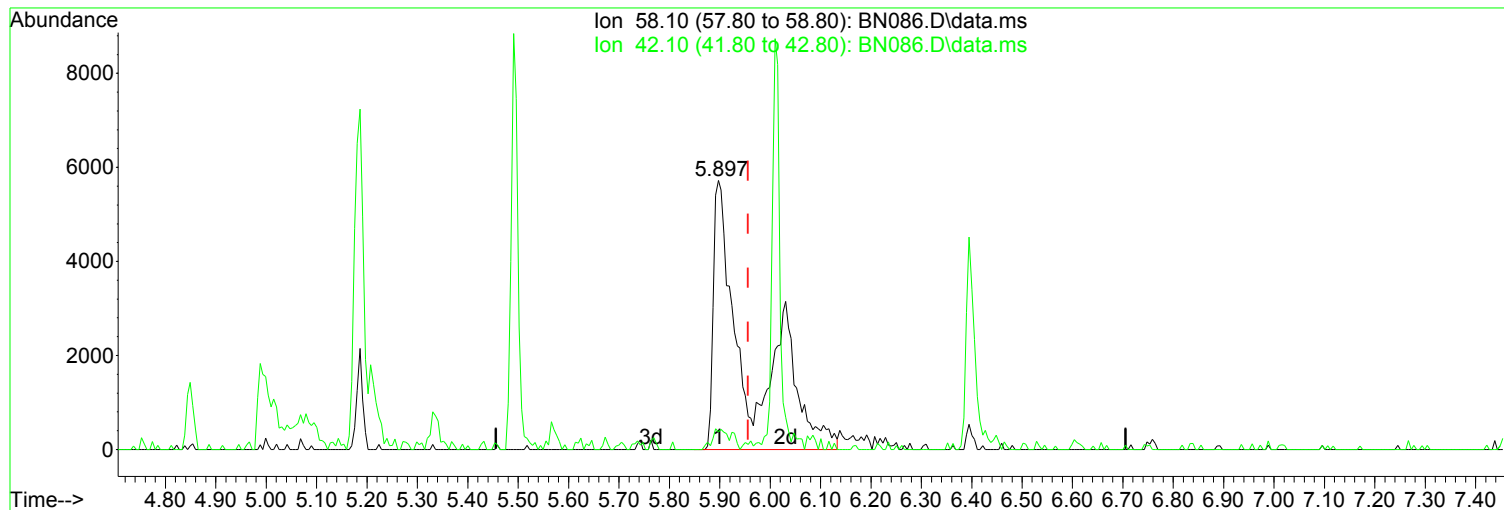
319.10 16.50 30.92

0.00 0.00 0.00



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN086.D  
Acq On : 23 Jan 2018 1:45 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.897min (-0.059) 4.91 ppm m

After

response 26597

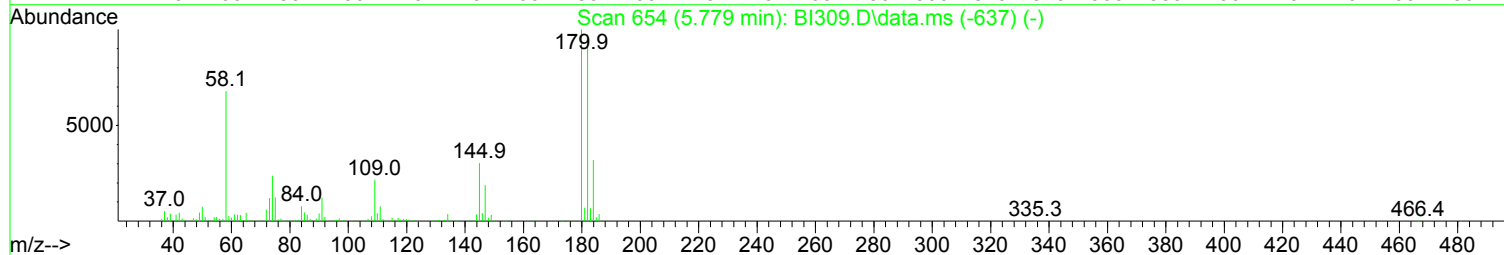
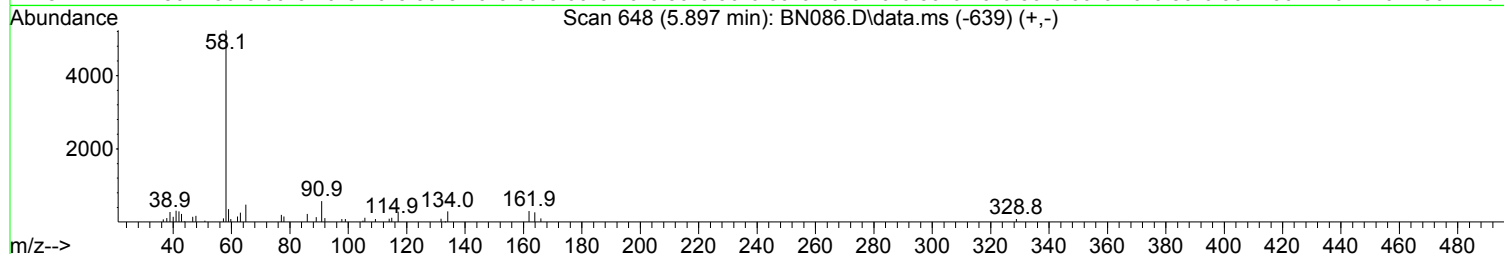
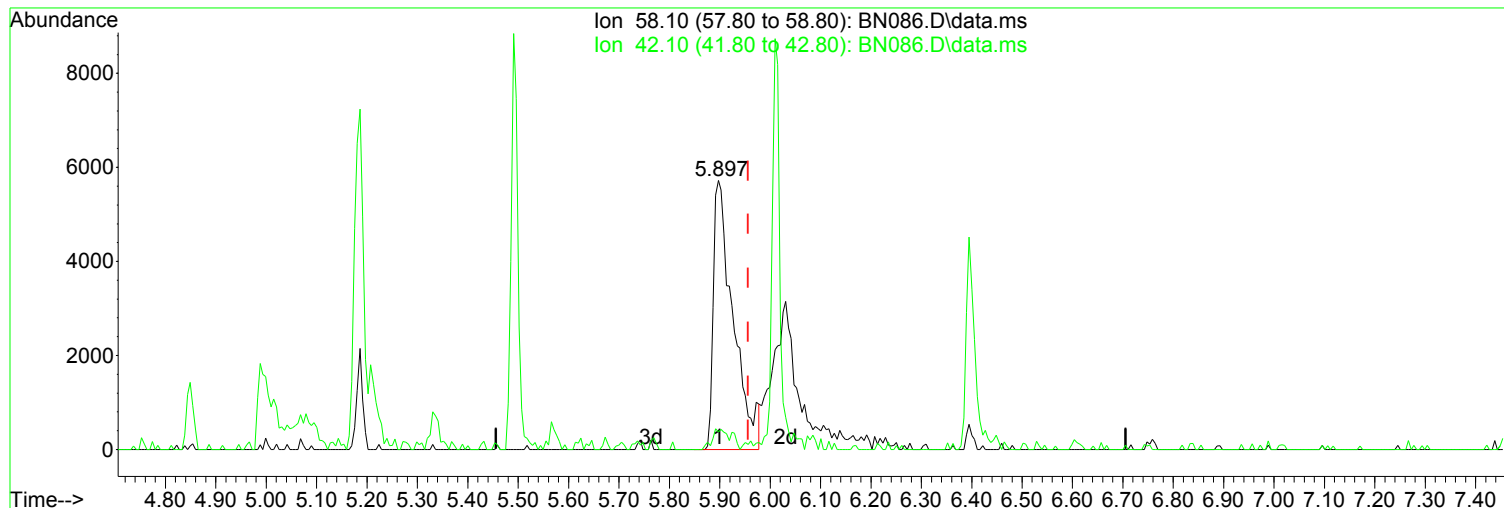
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	6.56
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN086.D  
Acq On : 23 Jan 2018 1:45 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.897min (-0.059) 2.87 ppm

Before

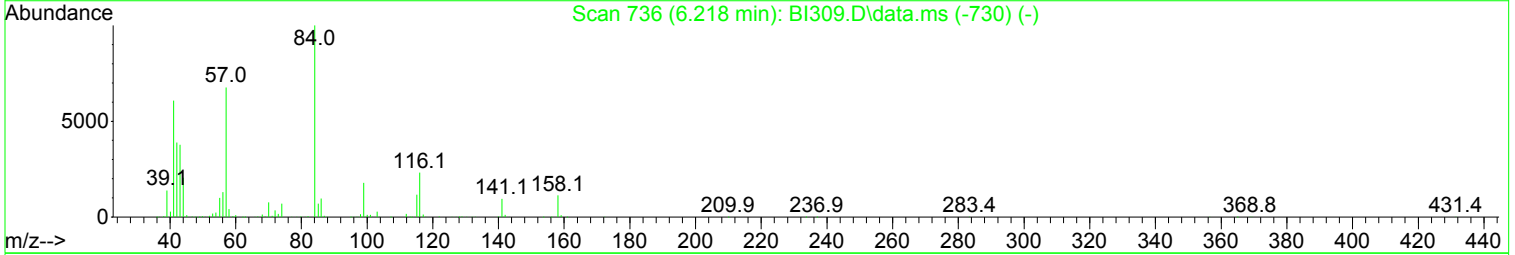
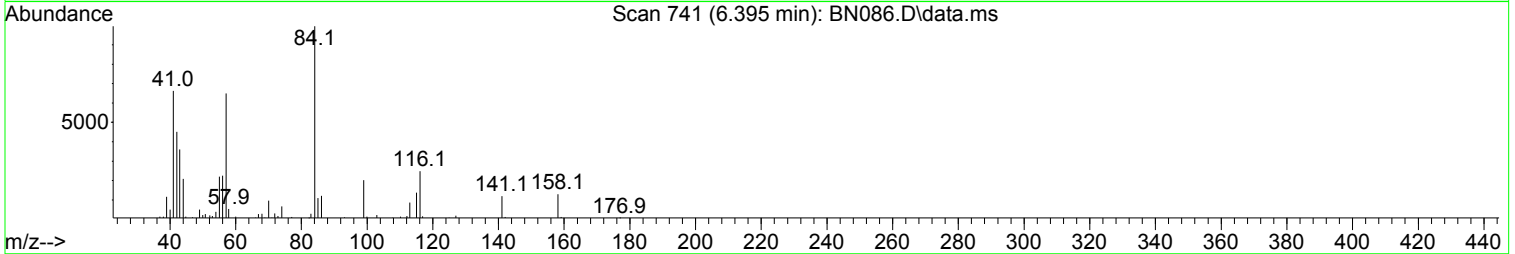
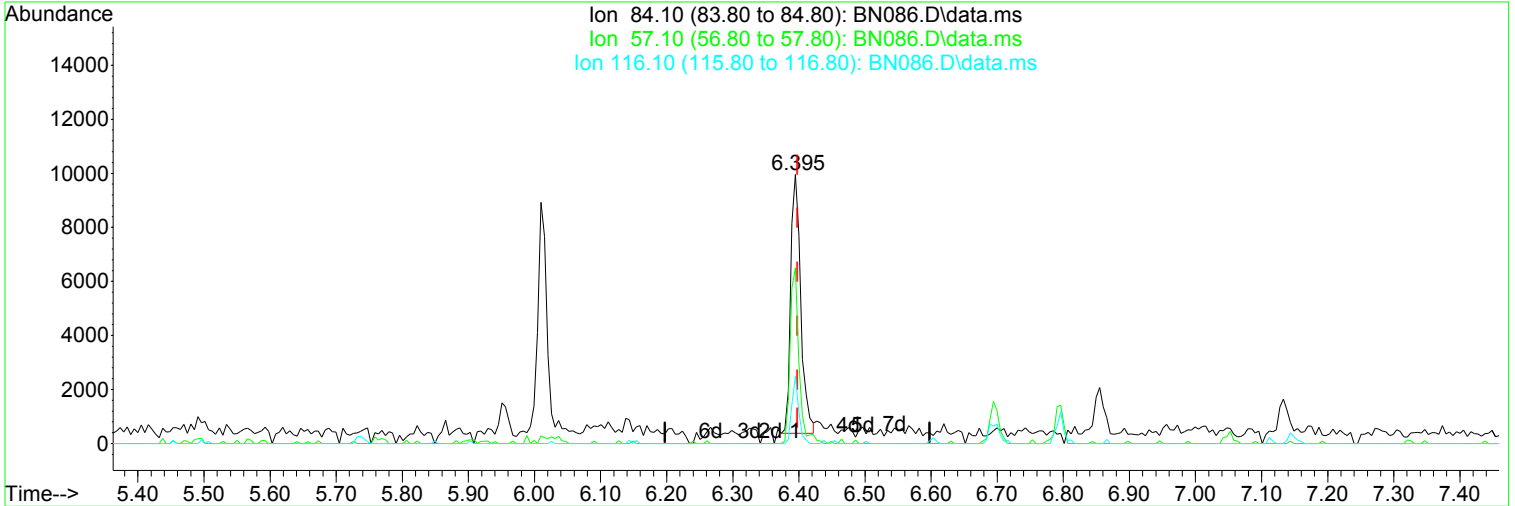
response 15521

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	9.95
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN086.D  
Acq On : 23 Jan 2018 1:45 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(51) N-N-di-n-butylamine (TM)

Manual Integration:

6.395min (-0.003) 5.08 ppm m

After

response 10122

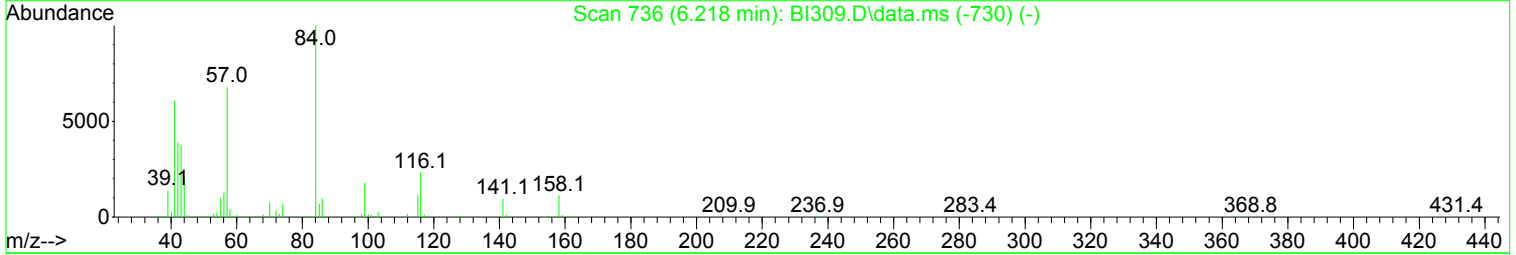
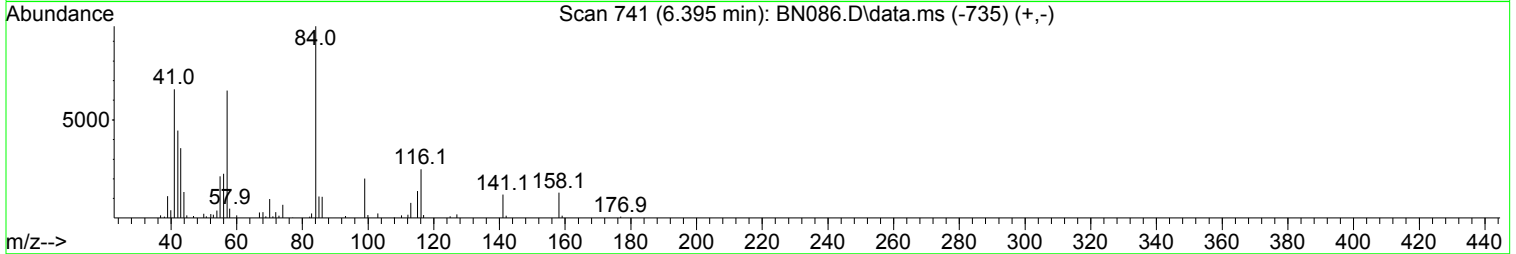
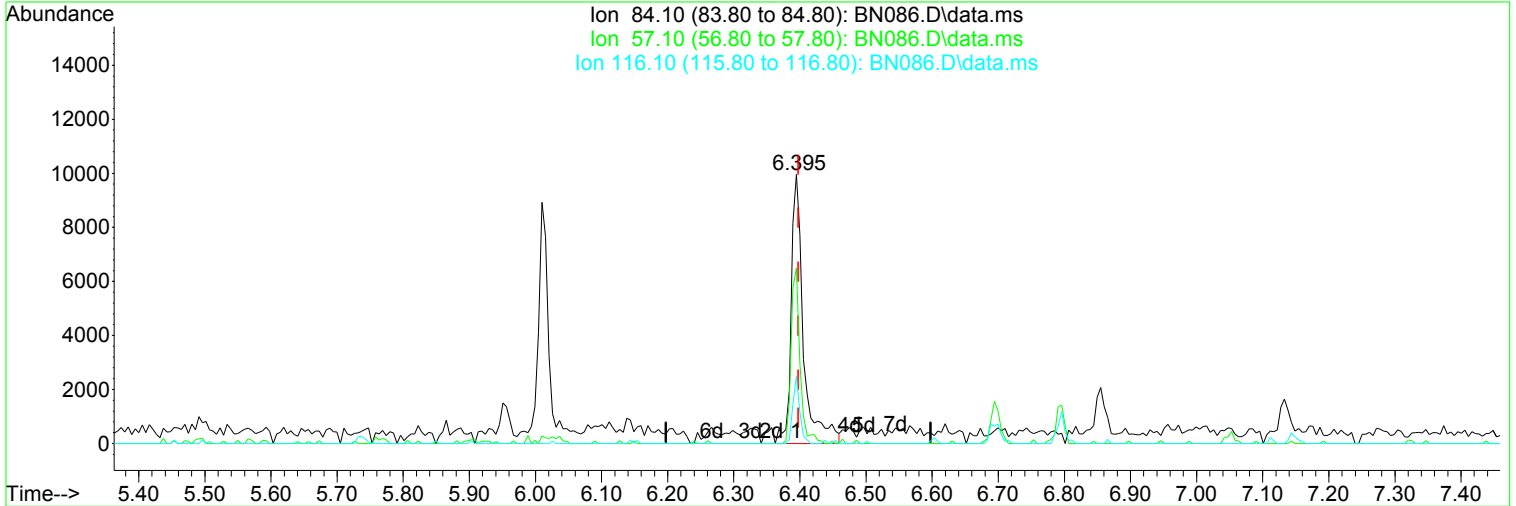
Poor integration.

Ion	Exp%	Act%
84.10	100.00	100.00
57.10	70.90	65.28
116.10	25.10	24.99
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN086.D  
Acq On : 23 Jan 2018 1:45 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(51) N-N-di-n-butylamine (TM)

Manual Integration:

6.395min (-0.003) 6.45 ppm

Before

response 12861

Ion Exp% Act%

01/24/18

84.10 100.00 100.00

57.10 70.90 66.50

116.10 25.10 25.46

0.00 0.00 0.00

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN086.D  
 Acq On : 23 Jan 2018 1:45 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.849	152	92422	40.00	ppm	0.00
33) d8-Naphthalene	6.010	136	348429	40.00	ppm	0.00
57) d10-Acenaphthene	7.716	164	177819	40.00	ppm	0.00
91) d10-Phenanthrene	9.187	188	298844	40.00	ppm	0.00
117) d12-Chrysene	12.498	240	289830	40.00	ppm	0.00
135) d12-Perylene	15.471	264	296431	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.785	112	13314	4.75	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	2.38%#
12) SURR2,PHENOL-D6	4.501	99	15834	4.61	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	2.31%#
34) SURR4,NITROBENZENE-D5	5.336	82	10175	3.64	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	3.64%#
63) SURR5,2-FLUOROBIPHENYL	7.053	172	30535	4.59	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	4.59%#
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	3046	3.17	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	1.59%#
124) SURR6,TERPHENYL-D14	10.893	244	32135	5.32	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	5.32%#

Target Compounds						Qvalue
2) Pyridine	2.886	79	12752	4.645	ppm	97
3) N-Nitrosodimethylamine	2.849	74	5311	5.509	ppm	75
4) 2-Picoline	3.394	93	14643	5.046	ppm	97
5) N-Nitrosomethylamine	3.458	42	6855	4.902	ppm	88
6) Methyl Methansulfonate	3.667	80	6433	4.375	ppm	96
8) N-Nitrosodiethylamine	3.967	102	6823	4.596	ppm	86
9) Ethyl Mathanesulfonate	4.191	79	10481	5.140	ppm	95
10) Benzaldehyde	4.485	106	18420	10.950	ppm	93
11) Aniline	4.566	93	23887	4.812	ppm	96
13) Phenol	4.517	94	15486	4.596	ppm	92
14) bis(2-Clethyl)Ether	4.608	93	12888	5.145	ppm	97
15) Pentachloroethane	4.614	117	5514	5.102	ppm	86
16) 2-Chlorophenol	4.667	128	12692	4.387	ppm	92
17) 1,3-Diclbzene	4.801	146	15718	4.803	ppm	97
18) 1,4-Dichlorobenzene	4.865	146	15508	4.615	ppm	92
19) 1,2-Diclbzene	4.999	146	16287	5.188	ppm	93
20) Benzyl Alcohol	4.956	79	9823	4.374	ppm	96
21) 1-Methyl-2-pyrrolidinone	4.993	99	8258	4.627	ppm	# 83
22) 2,2'-oxybis(1-Chloropr...	5.068	45	12897	5.014	ppm	99
23) 2-Methylphenol	5.042	108	12330	4.873	ppm	90
24) 3+4-Methylphenol	5.181	108	11301	4.132	ppm	82
25) Acetophenone	5.197	105	20117	5.003	ppm	95
26) N-Nitroso-Di-n-propyla...	5.186	70	9612	4.723	ppm	85
27) N-Nitrosopyrrolidine	5.181	100	6112	4.090	ppm	92
28) N-Nitrosomorpholine	5.207	56	7114	4.421	ppm	79
29) o-Toluidine	5.229	106	20980	4.607	ppm	98
30) Hexachloroethane	5.298	117	6379	4.725	ppm	93
31) o,o-Triethylphosphor...	5.737	198	6795	5.096	ppm	86
32) Alpha-terpinol	6.031	121	5027	4.795	ppm	97
35) Nitrobenzene	5.352	77	10740	3.866	ppm	93
36) N-Nitrosopiperidine	5.491	42	8234	4.852	ppm	93
37) Isophorone	5.571	82	24580	4.852	ppm	98
38) 2-Nitrophenol	5.651	139	4204	4.603	ppm	90

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN086.D  
 Acq On : 23 Jan 2018 1:45 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.721	105	7626	3.545	ppm	99
40) 2,4-Dimethylphenol	5.673	107	13066	4.610	ppm	88
41) bis(-2-Chloroethoxy)Me...	5.769	93	15048	4.877	ppm	94
42) 2,4-Dichlorophenol	5.876	162	9263	4.012	ppm	98
43) a,a-Dimethylphenethyla...	5.897	58	26597m	4.915	ppm	
44) 1,2,4-Trichlorobenzene	5.956	180	12246	4.662	ppm	97
45) Naphthalene	6.031	128	43825	4.992	ppm	97
46) 4-Chloroaniline	6.079	127	18540	4.443	ppm	96
47) 2,6-Dichlorophenol	6.085	162	11005	4.324	ppm	88
48) Hexachlorobutadiene	6.143	225	7499	4.812	ppm	100
49) Hexachloropropene	6.111	213	7369	4.043	ppm	93
50) 4-Chloro-3-methylphenol	6.539	107	10050	4.319	ppm	94
51) N-N-di-n-butylamine	6.395	84	10122m	5.079	ppm	
52) Caprolactam	6.406	113	3248	3.822	ppm	83
54) Safrole	6.609	162	11556	4.595	ppm	91
55) 2-Methylnaphthalene	6.700	142	26251	4.538	ppm	96
56) 1-Methylnaphthalene	6.791	142	25431	4.680	ppm	98
58) Hexachlorocyclopentadiene	6.844	237	6227	4.042	ppm	94
59) 1,2,4,5-Tetrachloroben...	6.855	216	13069	4.539	ppm	92
60) 1,2,3,4-Tetrachloroben...	7.133	216	12811	4.641	ppm	98
61) 2,4,6-Trichlorophenol	6.967	196	5548	3.352	ppm	92
62) 2,4,5-Trichlorophenol	7.010	196	6260	3.731	ppm	94
64) Isosafrole	7.112	104	5221	4.672	ppm	98
65) 1,1'-Biphenyl	7.149	154	34013	4.662	ppm	94
66) 2-Chloronaphthalene	7.170	162	26340	4.848	ppm	98
67) 2-Nitroaniline	7.272	65	3895	4.730	ppm	95
68) 1,4-Naphthoquinone	7.347	158	6977	4.101	ppm	95
69) m-Dinitrobenzene	7.475	168	2316	5.042	ppm	82
70) Acenaphthylene	7.577	152	38321	4.471	ppm	95
71) Dimethyl phthalate	7.443	163	29760	4.824	ppm	98
72) 2,6-Dinitrotoluene	7.502	165	3951	3.227	ppm	86
73) Acenaphthene	7.748	153	27667	4.590	ppm	98
74) 3-Nitroaniline	7.673	138	4459	4.081	ppm	89
75) 2,4-Dinitrophenol	7.775	184	1098	6.068	ppm	84
76) Dibenzofuran	7.919	168	36552	4.677	ppm	94
77) 2,4-Dinitrotoluene	7.898	165	4275	5.035	ppm	98
78) 4-Nitrophenol	7.844	65	2130	4.553	ppm	74
79) Pentachlorobenzene	7.876	250	11863	4.829	ppm	95
80) 1-Naphthylamine	7.999	143	17067	4.666	ppm	84
81) 2-Naphthylamine	8.074	143	22381	4.440	ppm	92
82) 2,3,4,6-Tetrachlorophenol	8.037	232	3770	3.029	ppm	93
83) Fluorene	8.256	166	30254	4.831	ppm	97
84) 4-Chlorophenyl-phenyle...	8.256	204	13558	4.938	ppm	97
85) Diethylphthalate	8.138	149	28440	4.534	ppm	97
86) 4-Nitroaniline	8.278	138	5082	4.712	ppm	80
87) 5-Nitro-o-toluidine	8.267	152	4573	4.518	ppm	85
89) Sulfotepp	8.524	322	3557	3.973	ppm	79
90) Octachlorocyclopentene	8.508	307	3755	4.018	ppm	87
92) Thionazin	8.219	107	4254	4.767	ppm	77
93) 4,6-Dinitro-2-methylph...	8.299	198	1808	5.850	ppm	98
94) Diphenylamine	8.368	169	44116	10.021	ppm	98
95) 1,2 Diphenylhydrazine	8.411	77	30101	5.328	ppm	99
96) N-Nitrosodiphenylamine	8.368	169	44116	10.021	ppm	98
97) 1,3,5-Trinirobenzene	8.625	213	934	6.329	ppm	# 99
98) Diallate	8.652	86	9566	5.072	ppm	78
99) Phorate	8.663	121	4252	4.504	ppm	92

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN086.D  
 Acq On : 23 Jan 2018 1:45 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 08:48:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.668	108	11276	3.984	ppm	93
101) 4-Bromophenyl-phenylether	8.738	248	7791	5.160	ppm	93
102) Hexachlorobenzene	8.796	284	9800	5.226	ppm	97
103) Dimethoate	8.828	87	7635	4.737	ppm	93
104) Atrazine	8.893	215	3780	4.440	ppm	69
105) Pentachlorophenol	8.994	266	2848	2.377	ppm	96
106) 4-Aminobiphenyl	8.994	169	24440	4.223	ppm	97
107) Pentachloronitrobenzene	9.005	237	1514	2.169	ppm	79
108) Pronamide	9.048	173	9876	3.894	ppm	95
109) Dinoseb	9.165	211	2175	2.274	ppm	80
110) Disulfoton	9.181	88	10009	5.523	ppm	79
111) Phenanthrene	9.208	178	37114	4.706	ppm	99
112) Anthracene	9.256	178	34507	4.451	ppm	95
113) Carbazole	9.417	167	36967	4.588	ppm	97
114) Di-n-butylphthalate	9.754	149	40459	4.125	ppm	99
115) 4-Nitroquinoline-1-oxide	9.978	190	1301	2.097	ppm	82
116) Fluoranthene	10.433	202	36778	4.365	ppm	96
118) Methyl Parathion	9.550	109	3863	3.485	ppm	74
119) Ethyl Parathion	9.936	97	2554	7.428	ppm	89
120) Methapyrilene	10.059	58	7131	3.785	ppm	93
121) Isodrin	10.262	193	3502	4.502	ppm	97
122) Benzidine	10.593	184	21215	4.174	ppm	92
123) Pyrene	10.700	202	41335	4.998	ppm	94
125) Aramite	10.963	185	3762m	4.255	ppm	
126) p-(Dimethylamino)azobe...	11.080	120	10147	4.295	ppm	87
127) Chlorobenzilate	11.139	139	10166	4.236	ppm	88
128) Butyl benzyl phthalate	11.583	149	19151	4.507	ppm	97
129) 3,3-Dimethylbenzidine	11.562	212	22896	4.093	ppm	99
130) 2-Acetylaminofluorene	11.952	181	9313	2.934	ppm	94
131) 3,3'-Dichlorobenzidine	12.449	252	15230	4.269	ppm	98
132) Benzo(a)anthracene	12.482	228	36630	4.523	ppm	95
133) Chrysene	12.546	228	36297	4.715	ppm	97
134) bis(2-Ethylhexyl)phtha...	12.583	149	22558	3.829	ppm	95
136) Di-n-octyl phthalate	13.926	149	29952	5.271	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.626	256	16198	4.158	ppm	87
138) Benzo(b)Fluoranthene	14.621	252	38471	4.511	ppm	97
139) Benzo(k)fluoranthene	14.680	252	38683	4.693	ppm	99
140) Benzo(a)pyrene	15.332	252	30556	4.296	ppm	97
141) 3-Methylcholanthrene	16.092	268	15252	3.814	ppm	96
142) Indeno(1,2,3-cd)Pyrene	17.392	276	29773	4.749	ppm	96
143) Dibenz(a,h)anthracene	17.450	278	35077	4.910	ppm	95
144) Benzo(g,h,i)perylene	17.857	276	34033	5.255	ppm	95

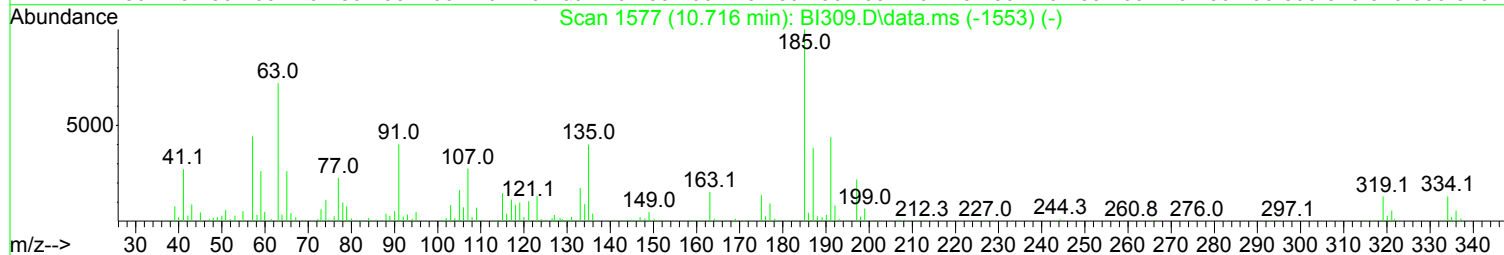
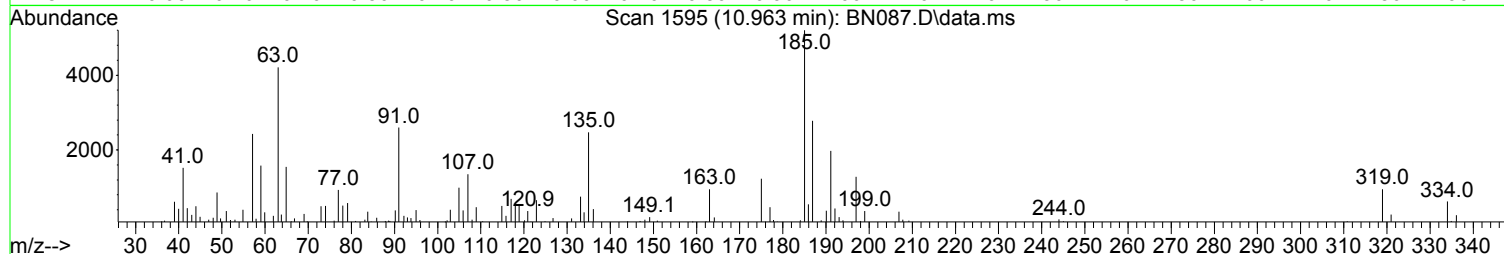
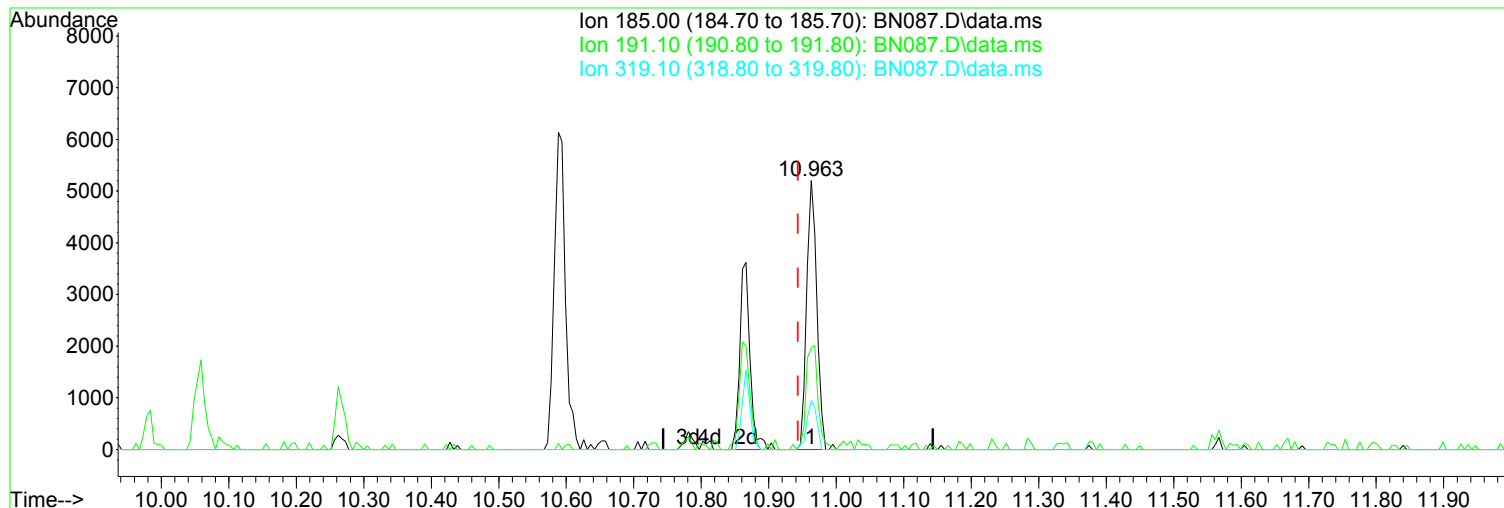
(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN087.D  
 Acq On : 23 Jan 2018 2:13 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 08:48:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.963min (+ 0.019) 9.27 ppm m

After

response 9324

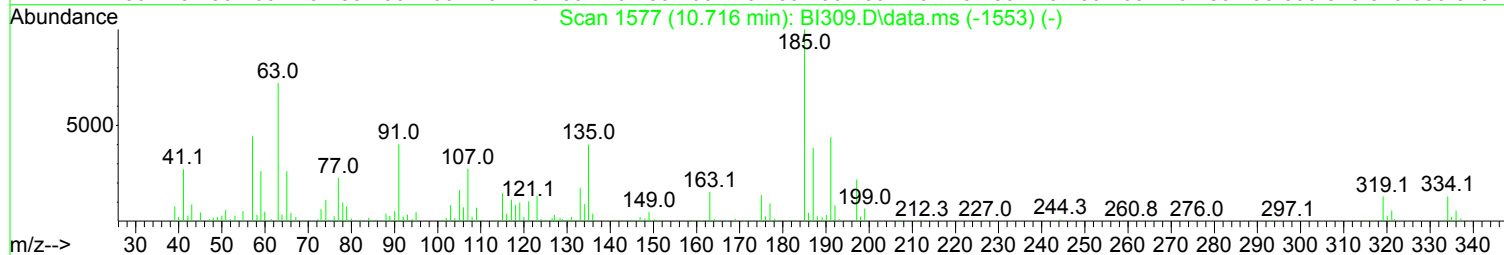
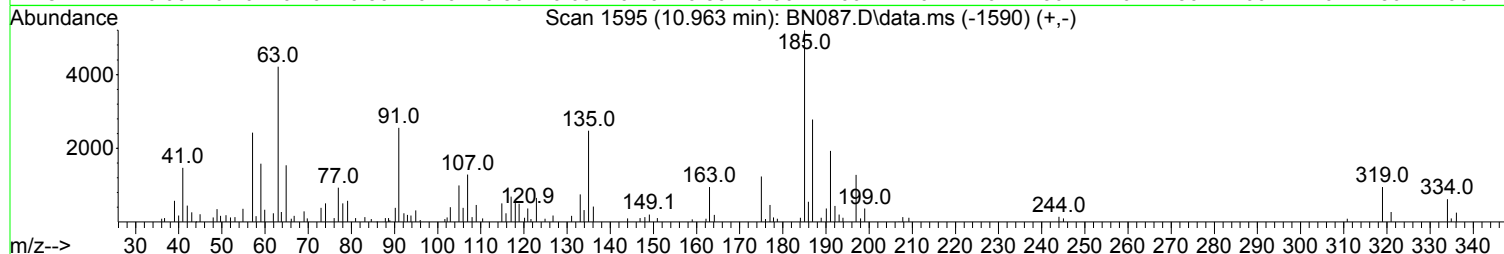
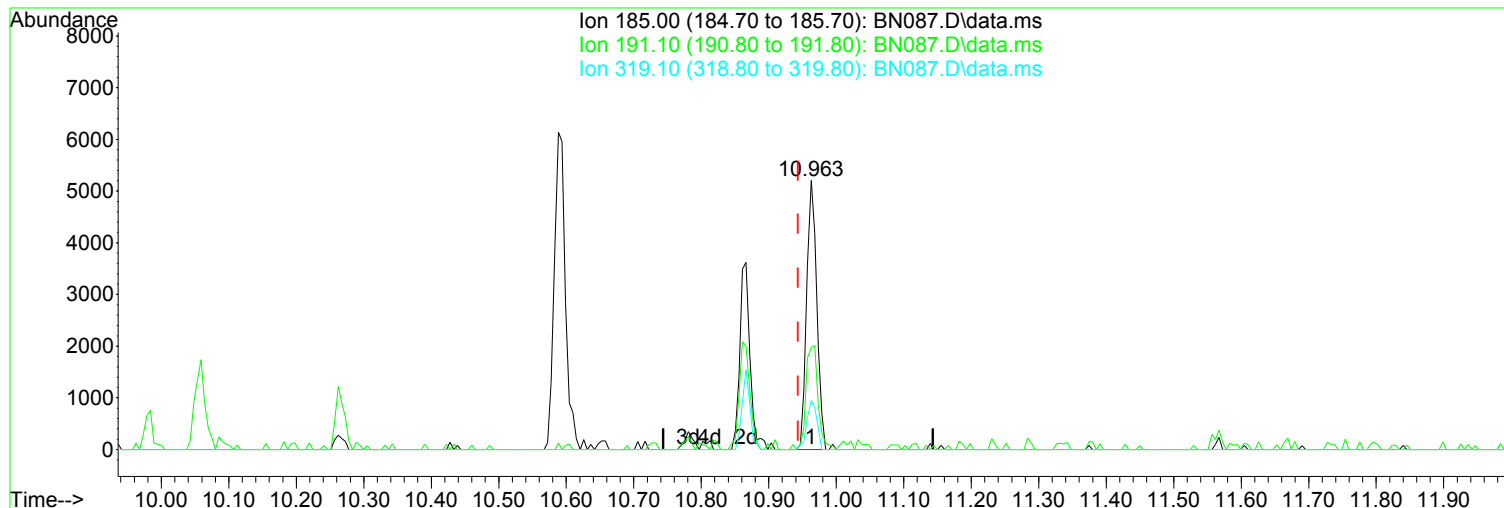
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	37.98
319.10	16.50	18.22
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN087.D  
Acq On : 23 Jan 2018 2:13 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 08:48:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN087.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.963min (+ 0.019) 5.40 ppm

Before

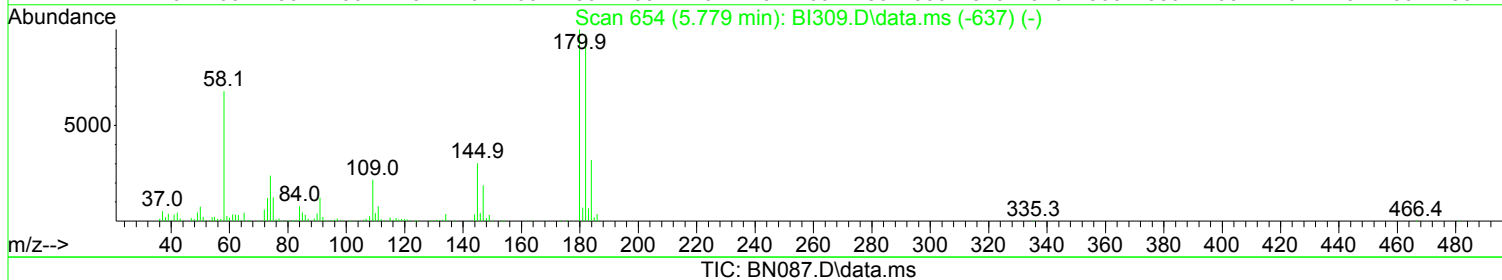
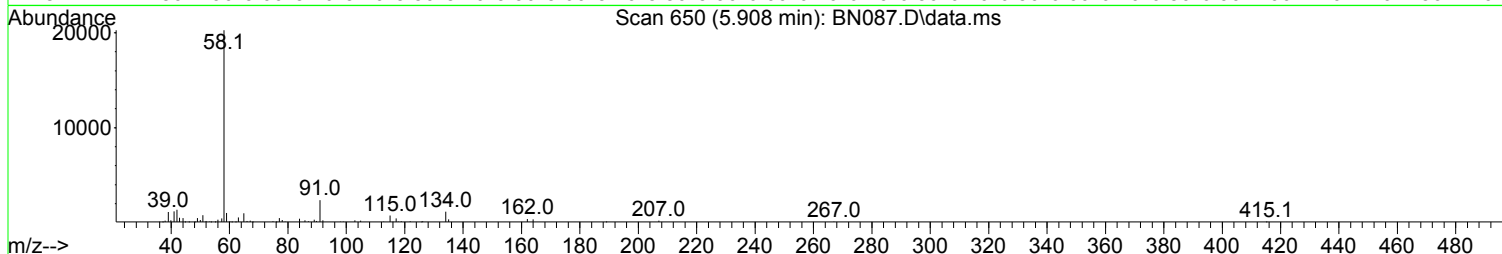
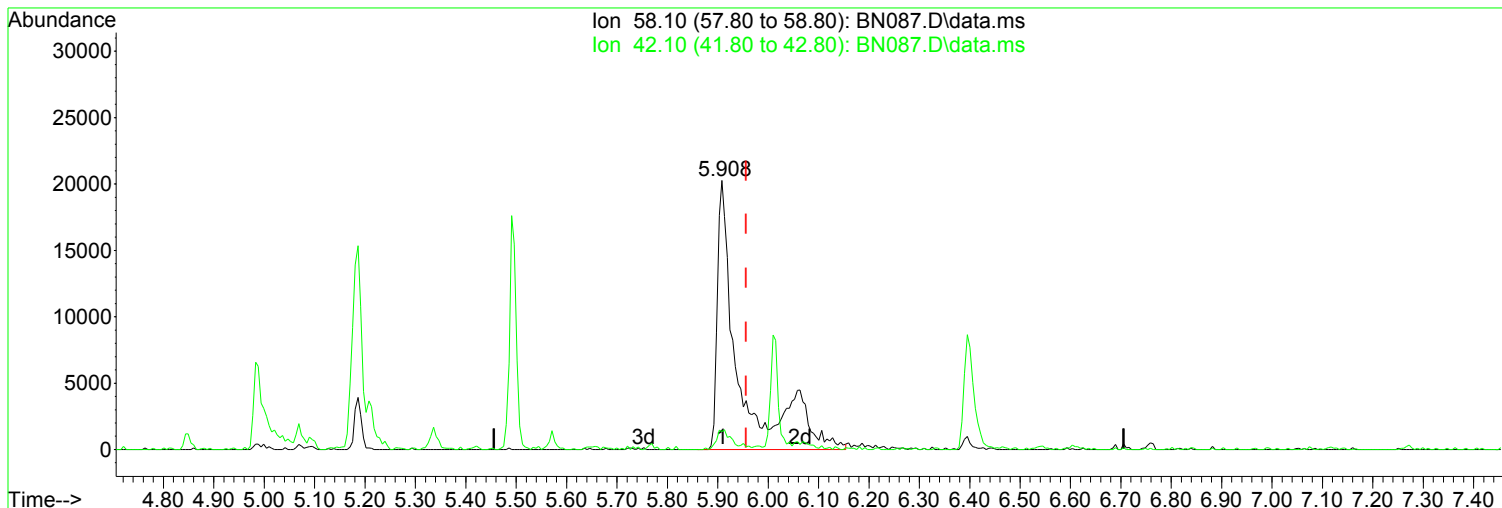
response 5428

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	36.19
319.10	16.50	18.22
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN087.D  
Acq On : 23 Jan 2018 2:13 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 08:48:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.908min (-0.048) 10.45 ppm m

After

response 61784

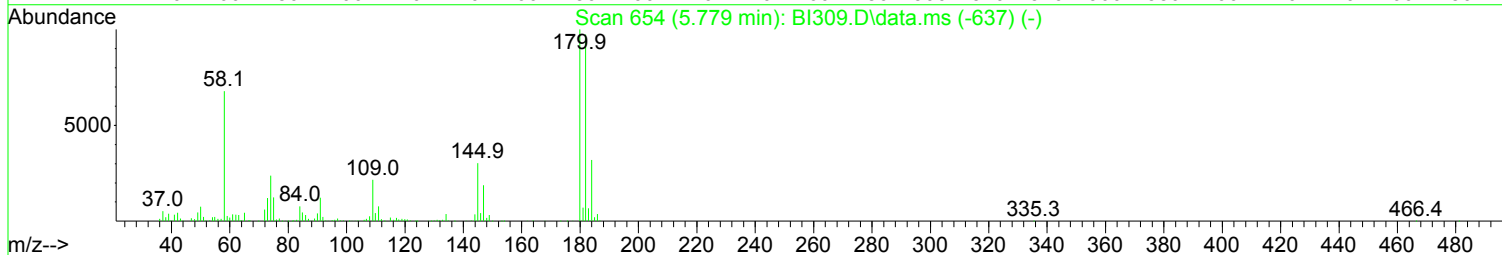
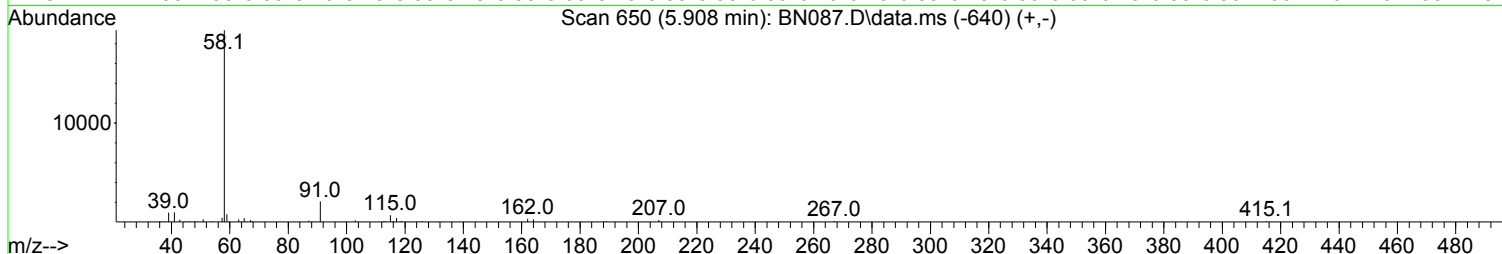
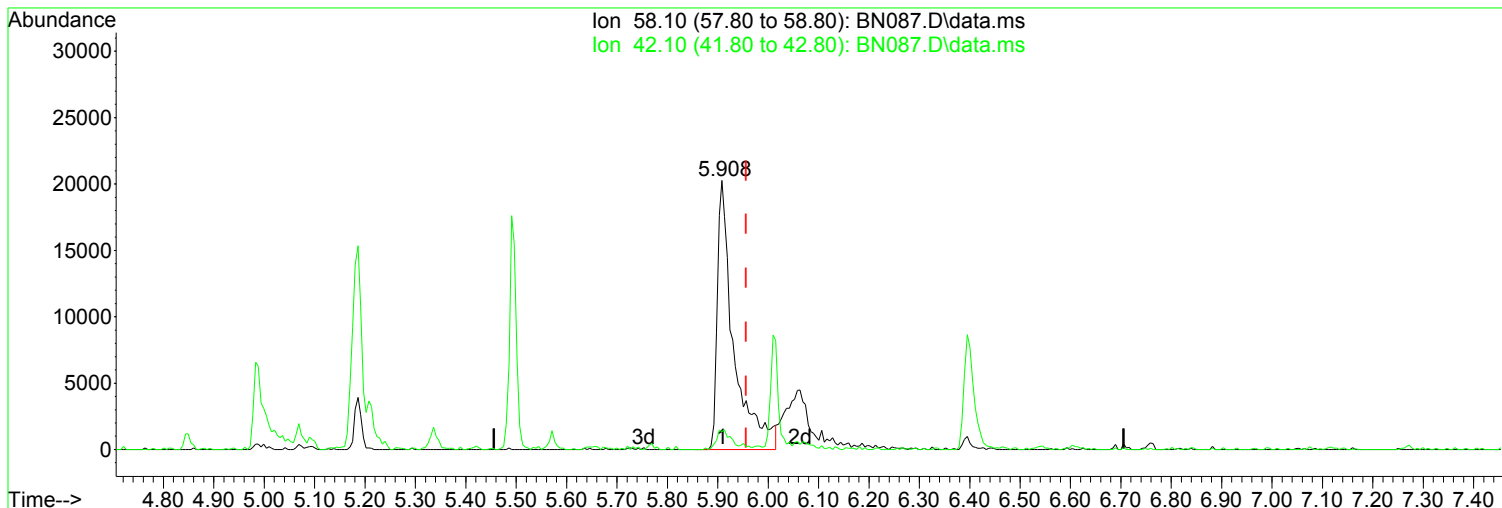
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	6.64
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN087.D  
Acq On : 23 Jan 2018 2:13 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 08:48:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.908min (-0.048) 7.78 ppm

Before

response 46029

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	0.00
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN087.D  
 Acq On : 23 Jan 2018 2:13 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
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Quant Time: Jan 24 08:48:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.849	152	94673	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	380728	40.00	ppm	0.00	
57) d10-Acenaphthene	7.716	164	190112	40.00	ppm	0.00	
91) d10-Phenanthrene	9.187	188	304963	40.00	ppm	0.00	
117) d12-Chrysene	12.498	240	329631	40.00	ppm	0.00	
135) d12-Perylene	15.472	264	318372	40.00	ppm	0.00	
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.785	112	27861	9.71	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	4.86%#	
12) SURR2,PHENOL-D6	4.502	99	34794	9.88	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	4.94%#	
34) SURR4,NITROBENZENE-D5	5.336	82	23435	7.67	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	7.67%#	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	65646	9.22	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	9.22%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	7761	7.56	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	3.78%#	
124) SURR6,TERPHENYL-D14	10.893	244	69630	10.14	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	10.14%#	
Target Compounds							
							Qvalue
2) Pyridine	2.881	79	29654	10.544	ppm		92
3) N-Nitrosodimethylamine	2.843	74	13874	11.286	ppm		84
4) 2-Picoline	3.389	93	31685	10.659	ppm		100
5) N-Nitrosomethylamine	3.448	42	14547	10.156	ppm		97
6) Methyl Methansulfonate	3.667	80	13726	9.113	ppm		94
8) N-Nitrosodiethylamine	3.967	102	14745	9.696	ppm		97
9) Ethyl Mathanesulfonate	4.191	79	21934	10.501	ppm		98
10) Benzaldehyde	4.486	106	39186	22.741	ppm		93
11) Aniline	4.566	93	51746	10.176	ppm		98
13) Phenol	4.518	94	35002	10.141	ppm		92
14) bis(2-Clethyl)Ether	4.609	93	26847	10.463	ppm		98
15) Pentachloroethane	4.614	117	10869	9.819	ppm		100
16) 2-Chlorophenol	4.667	128	29058	9.806	ppm		97
17) 1,3-Diclbzene	4.801	146	33804	10.083	ppm		99
18) 1,4-Dichlorobenzene	4.865	146	33562	9.750	ppm		96
19) 1,2-Diclbzene	4.999	146	33421	10.392	ppm		97
20) Benzyl Alcohol	4.956	79	21336	9.275	ppm		95
21) 1-Methyl-2-pyrrolidinone	4.988	99	16846	9.214	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.074	45	28318	10.748	ppm		95
23) 2-Methylphenol	5.042	108	25652	9.898	ppm		96
24) 3+4-Methylphenol	5.181	108	26132	9.328	ppm		91
25) Acetophenone	5.197	105	43354	10.526	ppm		92
26) N-Nitroso-Di-n-propyla...	5.186	70	20798	9.976	ppm		84
27) N-Nitrosopyrrolidine	5.175	100	14267	9.321	ppm		70
28) N-Nitrosomorpholine	5.208	56	15645	9.491	ppm		93
29) o-Toluidine	5.229	106	46388	9.945	ppm		95
30) Hexachloroethane	5.298	117	13505	9.765	ppm		98
31) o,o,o-Triethylphosphor...	5.737	198	14095	10.320	ppm		97
32) Alpha-terpinol	6.031	121	10275	9.567	ppm		93
35) Nitrobenzene	5.352	77	24888	8.198	ppm		89
36) N-Nitrosopiperidine	5.491	42	16356	8.821	ppm		94
37) Isophorone	5.571	82	54411	9.829	ppm		100
38) 2-Nitrophenol	5.646	139	10414	9.204	ppm		94

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN087.D  
 Acq On : 23 Jan 2018 2:13 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 08:48:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.737	105	22243	9.462	ppm	95
40) 2,4-Dimethylphenol	5.673	107	29165	9.416	ppm	92
41) bis(-2-Chloroethoxy)Me...	5.769	93	32931	9.767	ppm	97
42) 2,4-Dichlorophenol	5.876	162	21834	8.655	ppm	96
43) a,a-Dimethylphenethyla...	5.908	58	61784m	10.448	ppm	
44) 1,2,4-Trichlorobenzene	5.956	180	27960	9.741	ppm	98
45) Naphthalene	6.031	128	92726	9.666	ppm	96
46) 4-Chloroaniline	6.079	127	41681	9.142	ppm	97
47) 2,6-Dichlorophenol	6.085	162	25142	9.040	ppm	84
48) Hexachlorobutadiene	6.144	225	15424	9.058	ppm	99
49) Hexachloropropene	6.111	213	17066	8.569	ppm	90
50) 4-Chloro-3-methylphenol	6.539	107	23309	9.168	ppm	96
51) N-N-di-n-butylamine	6.395	84	23636	10.853	ppm	95
52) Caprolactam	6.406	113	7764	8.361	ppm	93
53) p-Phenylenediamine	6.432	80	733	5.827	ppm	71
54) Safrole	6.609	162	24894	9.059	ppm	96
55) 2-Methylnaphthalene	6.694	142	56603	8.955	ppm	95
56) 1-Methylnaphthalene	6.796	142	55936	9.420	ppm	96
58) Hexachlorocyclopentadiene	6.850	237	14367	8.723	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.855	216	28267	9.183	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.138	216	27269	9.240	ppm	92
61) 2,4,6-Trichlorophenol	6.967	196	14376	8.125	ppm	93
62) 2,4,5-Trichlorophenol	7.005	196	15574	8.683	ppm	91
64) Isosafrole	7.112	104	10987	9.195	ppm	94
65) 1,1'-Biphenyl	7.149	154	73544	9.429	ppm	98
66) 2-Chloronaphthalene	7.171	162	55729	9.593	ppm	95
67) 2-Nitroaniline	7.267	65	9931	8.972	ppm	96
68) 1,4-Naphthoquinone	7.347	158	16453	9.046	ppm	94
69) m-Dinitrobenzene	7.475	168	5467	9.890	ppm	83
70) Acenaphthylene	7.582	152	88483	9.657	ppm	99
71) Dimethyl phthalate	7.443	163	67112	10.175	ppm	98
72) 2,6-Dinitrotoluene	7.502	165	9374	7.161	ppm	88
73) Acenaphthene	7.748	153	60403	9.373	ppm	98
74) 3-Nitroaniline	7.673	138	10292	8.342	ppm	94
75) 2,4-Dinitrophenol	7.775	184	2295	10.340	ppm	88
76) Dibenzofuran	7.919	168	79645	9.532	ppm	97
77) 2,4-Dinitrotoluene	7.898	165	10222	9.124	ppm	97
78) 4-Nitrophenol	7.839	65	5880	8.278	ppm	# 75
79) Pentachlorobenzene	7.877	250	24766	9.430	ppm	97
80) 1-Naphthylamine	7.994	143	36800	9.409	ppm	99
81) 2-Naphthylamine	8.074	143	49793	9.239	ppm	97
82) 2,3,4,6-Tetrachlorophenol	8.037	232	9396	7.060	ppm	92
83) Fluorene	8.256	166	63772	9.525	ppm	99
84) 4-Chlorophenyl-phenyle...	8.256	204	28936	9.858	ppm	98
85) Diethylphthalate	8.139	149	62536	9.324	ppm	98
86) 4-Nitroaniline	8.272	138	13149	9.057	ppm	99
87) 5-Nitro-o-toluidine	8.267	152	10888	8.377	ppm	88
89) Sulfotepp	8.524	322	7876	8.229	ppm	86
90) Octachlorocyclopentene	8.508	307	8730	8.738	ppm	98
92) Thionazin	8.219	107	9231	10.136	ppm	96
93) 4,6-Dinitro-2-methylph...	8.299	198	4537	10.885	ppm	98
94) Diphenylamine	8.369	169	93212	20.748	ppm	97
95) 1,2 Diphenylhydrazine	8.411	77	63922	11.087	ppm	96
96) N-Nitrosodiphenylamine	8.369	169	93212	20.748	ppm	97
97) 1,3,5-Trinitrobenzene	8.625	213	2589	11.430	ppm	# 99
98) Diallate	8.652	86	20606	10.707	ppm	93

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN087.D  
 Acq On : 23 Jan 2018 2:13 pm  
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 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

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 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.663	121	9687	10.056	ppm	90
100) Phenacetin	8.673	108	26084	9.030	ppm	99
101) 4-Bromophenyl-phenylether	8.738	248	15892	10.314	ppm	99
102) Hexachlorobenzene	8.797	284	20861	10.900	ppm	92
103) Dimethoate	8.829	87	18316	11.137	ppm	97
104) Atrazine	8.893	215	8604	9.904	ppm	97
105) Pentachlorophenol	8.994	266	7633	6.242	ppm	95
106) 4-Aminobiphenyl	8.994	169	57005	9.653	ppm	98
107) Pentachloronitrobenzene	9.005	237	4685	6.576	ppm	90
108) Pronamide	9.048	173	25541	9.869	ppm	96
109) Dinoseb	9.166	211	6221	6.374	ppm	96
110) Disulfoton	9.176	88	18695	10.109	ppm	89
111) Phenanthrene	9.208	178	76628	9.521	ppm	98
112) Anthracene	9.256	178	76251	9.637	ppm	97
113) Carbazole	9.417	167	81376	9.897	ppm	97
114) Di-n-butylphthalate	9.754	149	102566	10.247	ppm	99
115) 4-Nitroquinonline-1-oxide	9.979	190	3369	5.322	ppm	89
116) Fluoranthene	10.433	202	87648	10.194	ppm	100
118) Methyl Parathion	9.551	109	11582	9.187	ppm	86
119) Ethyl Parathion	9.936	97	7364	11.871	ppm	93
120) Methapyrilene	10.053	58	16536	7.718	ppm	96
121) Isodrin	10.262	193	8135	9.196	ppm	92
122) Benzidine	10.588	184	50414	8.722	ppm	94
123) Pyrene	10.706	202	91545	9.733	ppm	98
125) Aramite	10.963	185	9324m	9.272	ppm	
126) p-(Dimethylamino)azobe...	11.080	120	24634	9.168	ppm	95
127) Chlorobenzilate	11.139	139	22492	8.241	ppm	97
128) Butyl benzyl phthalate	11.583	149	44921	9.295	ppm	94
129) 3,3-Dimethylbenzidine	11.562	212	55431	8.712	ppm	98
130) 2-Acetylaminofluorene	11.952	181	25183	6.977	ppm	97
131) 3,3'-Dichlorobenzidine	12.450	252	35887	8.845	ppm	99
132) Benzo(a)anthracene	12.482	228	87134	9.459	ppm	97
133) Chrysene	12.546	228	88239	10.079	ppm	97
134) bis(2-Ethylhexyl)phtha...	12.583	149	58570	8.742	ppm	99
136) Di-n-octyl phthalate	13.926	149	79369	9.641	ppm	99
137) 7,12-Dimethylbenz(a)an...	14.627	256	38155	9.120	ppm	94
138) Benzo(b)Fluoranthene	14.627	252	87360	9.537	ppm	96
139) Benzo(k)fluoranthene	14.685	252	82890	9.364	ppm	97
140) Benzo(a)pyrene	15.333	252	69952	9.157	ppm	99
141) 3-Methylcholanthrene	16.092	268	39535	9.204	ppm	95
142) Indeno(1,2,3-cd)Pyrene	17.392	276	69628	10.342	ppm	90
143) Dibenz(a,h)anthracene	17.445	278	78140	10.184	ppm	94
144) Benzo(g,h,i)perylene	17.852	276	72200	10.380	ppm	99

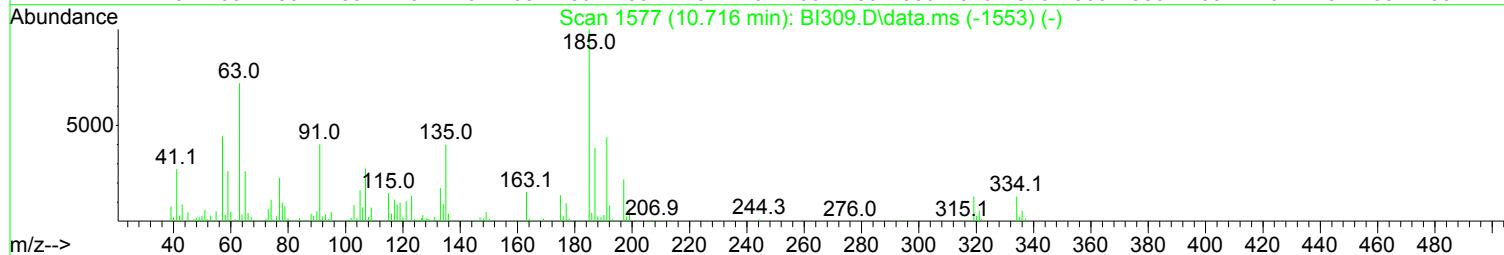
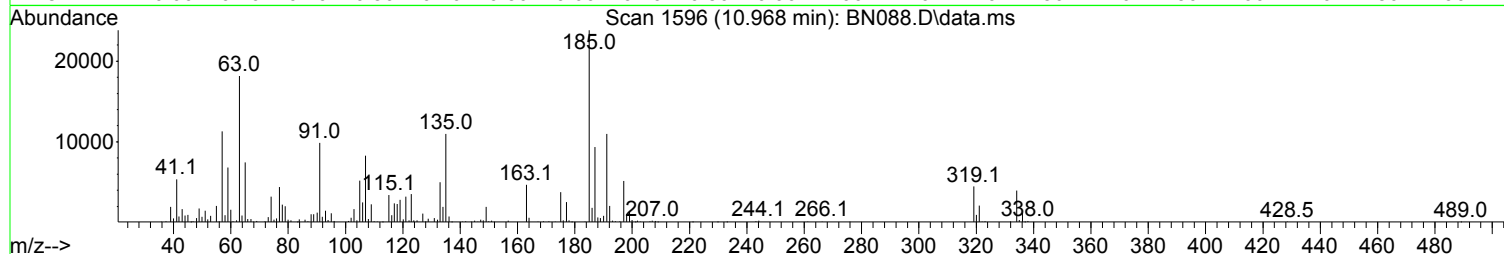
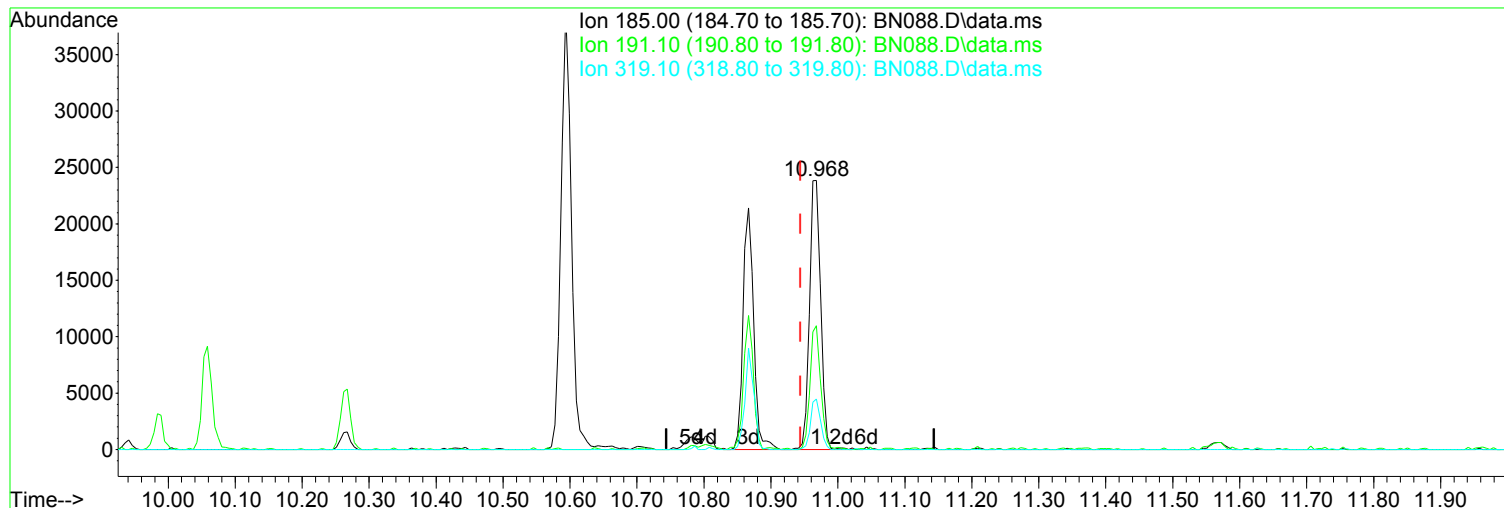
(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN088.D  
Acq On : 23 Jan 2018 2:41 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 08:48:24 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN088.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 53.41 ppm m

After

response 50941

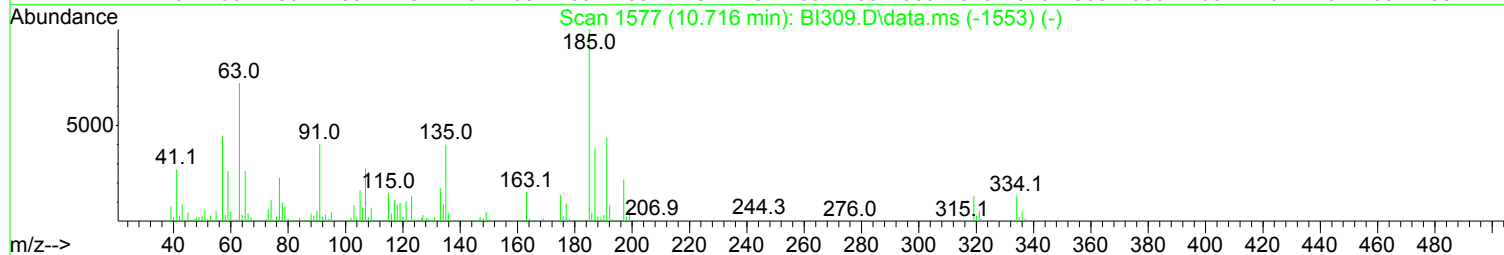
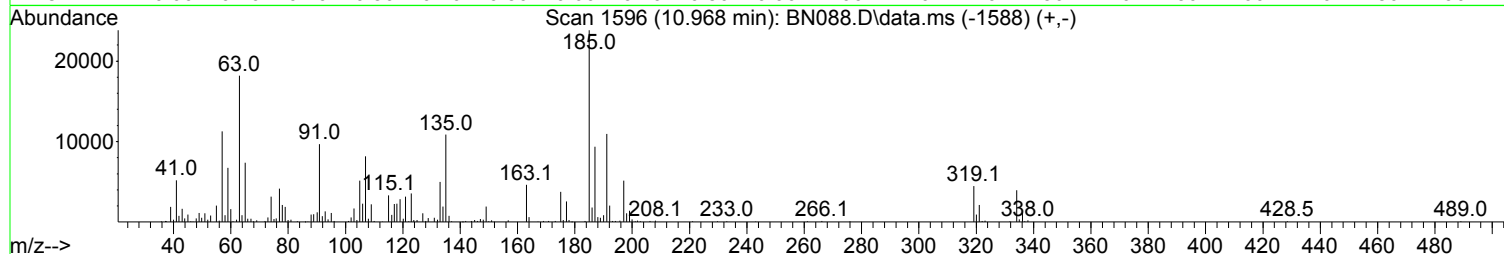
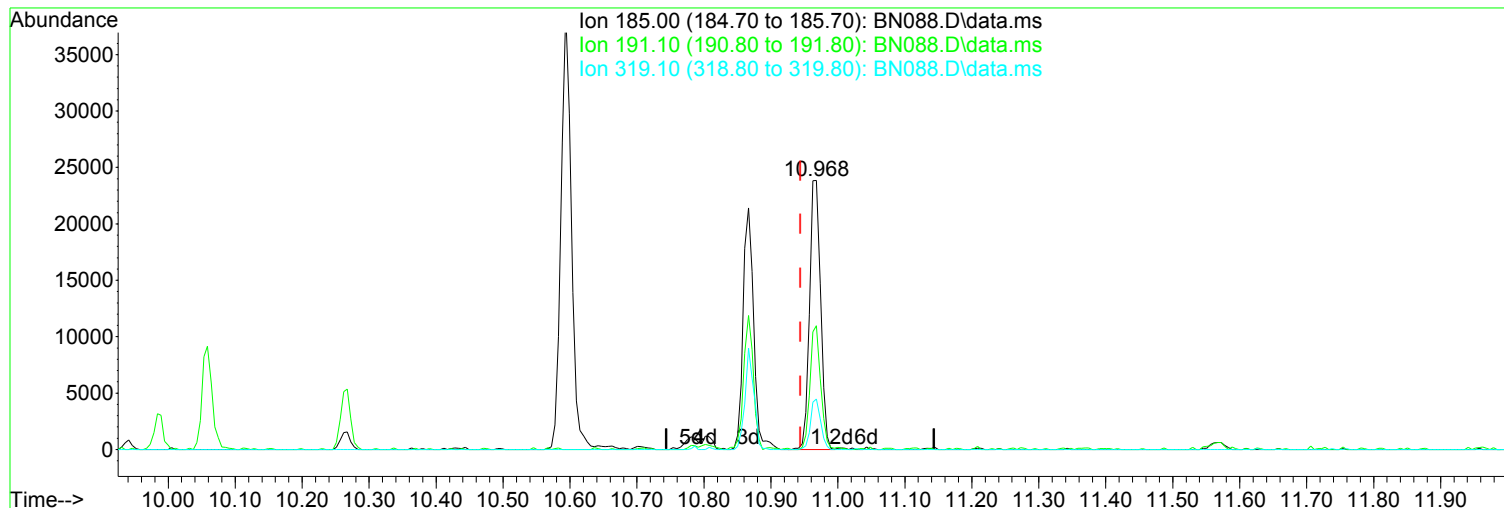
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	46.03
319.10	16.50	18.73
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN088.D  
 Acq On : 23 Jan 2018 2:41 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 08:48:24 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

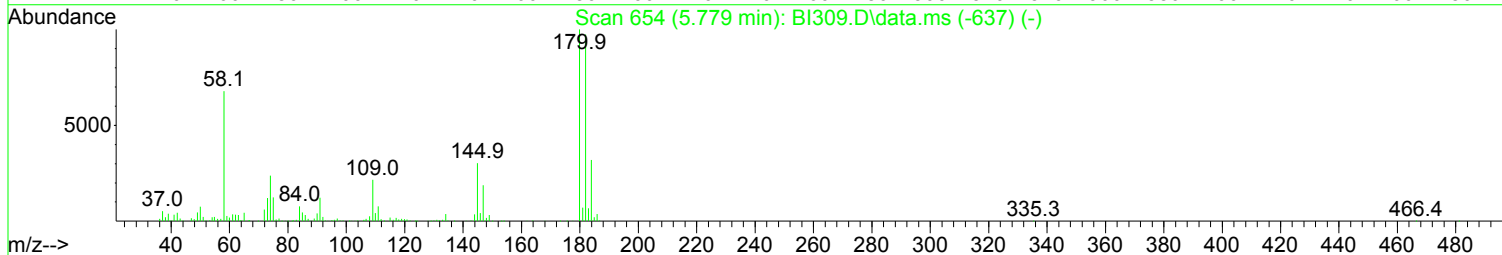
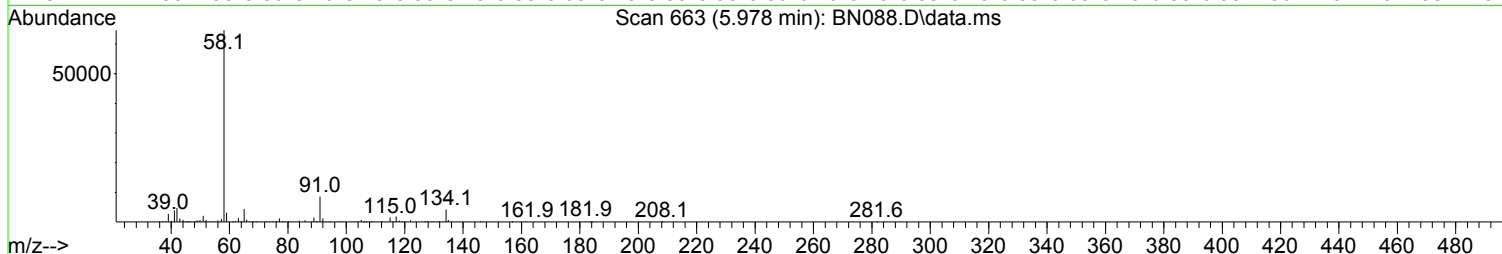
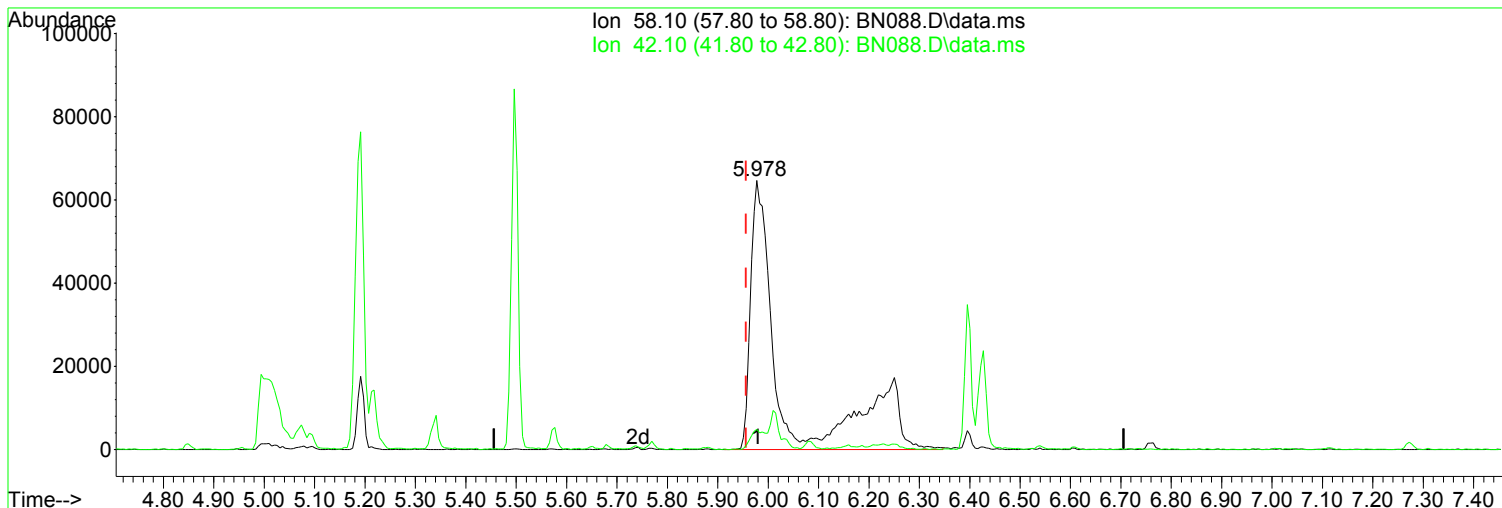


TIC: BN088.D\data.ms

(125) Aramite (TM)			Manual Integration:
10.968min (+ 0.024)	28.67 ppm		Before
response	27343		
Ion	Exp%	Act%	01/24/18
185.00	100.00	100.00	
191.10	44.30	45.56	
319.10	16.50	18.73	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN088.D  
Acq On : 23 Jan 2018 2:41 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 08:48:24 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.978min (+ 0.021) 49.42 ppm m

After

response 269723

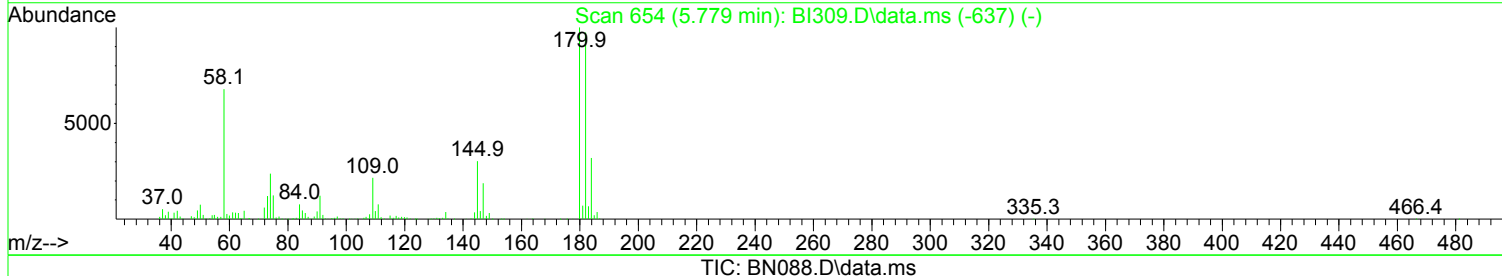
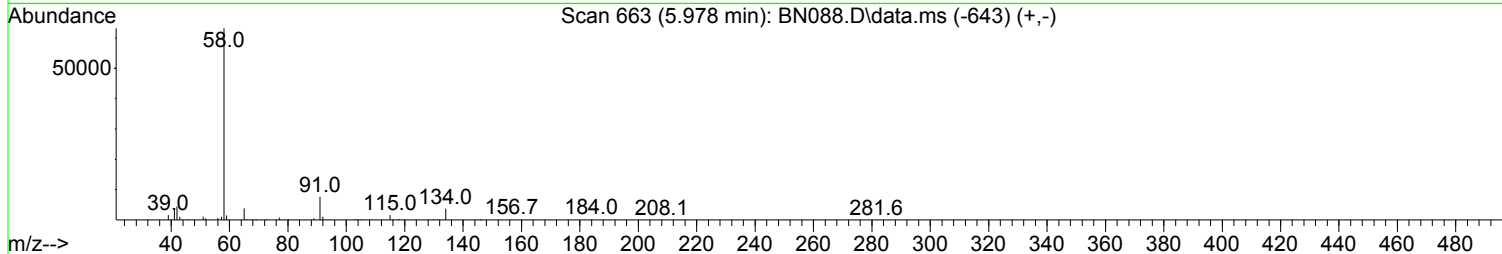
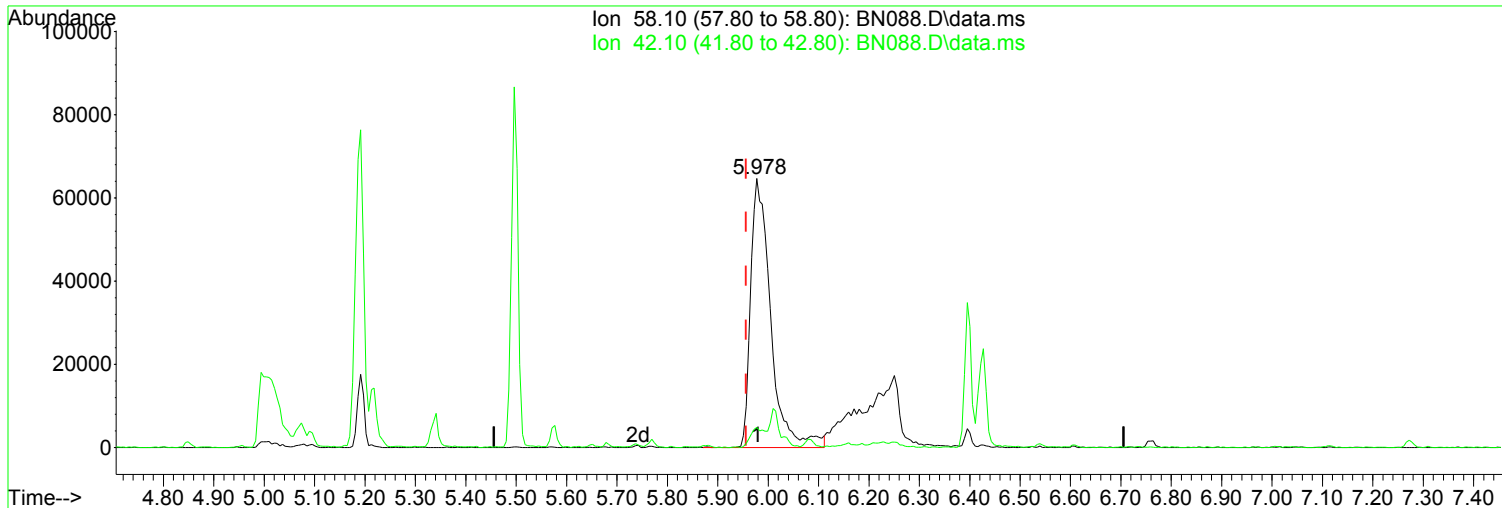
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	7.44
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN088.D  
Acq On : 23 Jan 2018 2:41 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 08:48:24 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.978min (+ 0.021) 32.82 ppm

Before

response 179115

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	7.07
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN088.D  
 Acq On : 23 Jan 2018 2:41 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 08:48:24 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	87458	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	351378	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	173744	40.00	ppm	0.00	
91) d10-Phenanthrene	9.187	188	303971	40.00	ppm	0.00	
117) d12-Chrysene	12.503	240	312633	40.00	ppm	0.00	
135) d12-Perylene	15.472	264	311094	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.790	112	136163	51.37	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	25.68%	
12) SURR2,PHENOL-D6	4.507	99	164746	50.65	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	25.32%	
34) SURR4,NITROBENZENE-D5	5.336	82	113482	40.22	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	40.22%	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	301627	46.35	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	46.35%	
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	41045	43.77	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	21.89%#	
124) SURR6,TERPHENYL-D14	10.893	244	334195	51.30	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	51.30%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.875	79	138644	53.363	ppm		95
3) N-Nitrosodimethylamine	2.838	74	68080	51.833	ppm		90
4) 2-Picoline	3.384	93	141405	51.493	ppm		97
5) N-Nitrosomethylamine	3.453	42	62421	47.173	ppm		98
6) Methyl Methansulfonate	3.667	80	62999	45.279	ppm		99
8) N-Nitrosodiethylamine	3.967	102	70666	50.304	ppm		98
9) Ethyl Mathanesulfonate	4.191	79	98927	51.269	ppm		98
10) Benzaldehyde	4.485	106	89342	56.125	ppm		94
11) Aniline	4.566	93	241581	51.427	ppm		99
13) Phenol	4.518	94	165517	51.911	ppm		95
14) bis(2-Clethyl)Ether	4.608	93	121446	51.233	ppm		96
15) Pentachloroethane	4.614	117	50810	49.686	ppm		93
16) 2-Chlorophenol	4.667	128	136090	49.714	ppm		99
17) 1,3-Diclbzene	4.801	146	152938	49.383	ppm		99
18) 1,4-Dichlorobenzene	4.865	146	156937	49.351	ppm		97
19) 1,2-Diclbzene	4.999	146	147347	49.597	ppm		98
20) Benzyl Alcohol	4.956	79	106256	50.004	ppm		95
21) 1-Methyl-2-pyrrolidinone	4.999	99	87452	51.777	ppm		92
22) 2,2'-oxybis(1-Chloropr...	5.074	45	126651	52.034	ppm		99
23) 2-Methylphenol	5.052	108	124550	52.023	ppm		97
24) 3+4-Methylphenol	5.191	108	129595	50.078	ppm		95
25) Acetophenone	5.197	105	190561	50.082	ppm		94
26) N-Nitroso-Di-n-propyla...	5.191	70	94735	49.188	ppm		92
27) N-Nitrosopyrrolidine	5.186	100	68735	48.609	ppm		96
28) N-Nitrosomorpholine	5.213	56	70935	46.583	ppm		89
29) o-Toluidine	5.229	106	209542	48.627	ppm		97
30) Hexachloroethane	5.304	117	60036	46.993	ppm		90
31) o,o,o-Triethylphosphor...	5.742	198	62478	49.520	ppm		92
32) Alpha-terpinol	6.037	121	48644	49.029	ppm		95
35) Nitrobenzene	5.357	77	125358	44.741	ppm		99
36) N-Nitrosopiperidine	5.496	42	78698	45.987	ppm		89
37) Isophorone	5.577	82	252186	49.360	ppm		97
38) 2-Nitrophenol	5.651	139	54630	44.008	ppm		98

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN088.D  
 Acq On : 23 Jan 2018 2:41 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 08:48:24 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.758	105	72930	33.614	ppm	90
40) 2,4-Dimethylphenol	5.678	107	135740	47.486	ppm #	82
41) bis(-2-Chloroethoxy)Me...	5.769	93	155505	49.976	ppm	98
42) 2,4-Dichlorophenol	5.876	162	108268	46.505	ppm	97
43) a,a-Dimethylphenethyla...	5.978	58	269723m	49.423	ppm	
44) 1,2,4-Trichlorobenzene	5.956	180	124543	47.014	ppm	97
45) Naphthalene	6.037	128	414194	46.784	ppm	99
46) 4-Chloroaniline	6.085	127	198996	47.291	ppm	98
47) 2,6-Dichlorophenol	6.090	162	115248	44.898	ppm	95
48) Hexachlorobutadiene	6.144	225	69767	44.393	ppm	97
49) Hexachloropropene	6.117	213	83125	45.225	ppm	99
50) 4-Chloro-3-methylphenol	6.539	107	114265	48.697	ppm	97
51) N-N-di-n-butylamine	6.395	84	86637	43.106	ppm	99
52) Caprolactam	6.427	113	40888	47.709	ppm	90
53) p-Phenylenediamine	6.438	80	4917	42.353	ppm #	73
54) Safrole	6.609	162	115195	45.422	ppm	98
55) 2-Methylnaphthalene	6.700	142	268646	46.054	ppm	98
56) 1-Methylnaphthalene	6.796	142	252942	46.155	ppm	97
58) Hexachlorocyclopentadiene	6.850	237	72854	48.403	ppm	97
59) 1,2,4,5-Tetrachloroben...	6.860	216	125743	44.698	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.138	216	120432	44.651	ppm	100
61) 2,4,6-Trichlorophenol	6.967	196	76804	47.499	ppm	95
62) 2,4,5-Trichlorophenol	7.010	196	75773	46.225	ppm	97
64) Isosafrole	7.112	104	51527	47.187	ppm	94
65) 1,1'-Biphenyl	7.154	154	333563	46.792	ppm	99
66) 2-Chloronaphthalene	7.176	162	257942	48.586	ppm	98
67) 2-Nitroaniline	7.272	65	54241	43.728	ppm	95
68) 1,4-Naphthoquinone	7.347	158	87061	52.379	ppm	99
69) m-Dinitrobenzene	7.481	168	28964	45.639	ppm #	61
70) Acenaphthylene	7.582	152	413497	49.380	ppm	98
71) Dimethyl phthalate	7.449	163	285852	47.421	ppm	99
72) 2,6-Dinitrotoluene	7.507	165	50414	42.141	ppm	94
73) Acenaphthene	7.753	153	273609	46.458	ppm	99
74) 3-Nitroaniline	7.679	138	57581	44.957	ppm	95
75) 2,4-Dinitrophenol	7.780	184	17835	55.791	ppm	88
76) Dibenzofuran	7.919	168	365691	47.891	ppm	99
77) 2,4-Dinitrotoluene	7.903	165	63488	46.300	ppm	95
78) 4-Nitrophenol	7.839	65	37785	41.773	ppm	91
79) Pentachlorobenzene	7.876	250	115969	48.316	ppm	98
80) 1-Naphthylamine	7.999	143	161149	45.086	ppm	98
81) 2-Naphthylamine	8.080	143	225461	45.776	ppm	95
82) 2,3,4,6-Tetrachlorophenol	8.042	232	49574	40.759	ppm	95
83) Fluorene	8.256	166	292550	47.813	ppm	99
84) 4-Chlorophenyl-phenyle...	8.256	204	129658	48.334	ppm	97
85) Diethylphthalate	8.144	149	288691	47.099	ppm	99
86) 4-Nitroaniline	8.283	138	77438	47.866	ppm	91
87) 5-Nitro-o-toluidine	8.272	152	68600	45.730	ppm	99
89) Sulfotepp	8.524	322	42651	48.762	ppm	93
90) Octachlorocyclopentene	8.508	307	46426	50.844	ppm	98
92) Thionazin	8.224	107	44201	48.691	ppm	98
93) 4,6-Dinitro-2-methylph...	8.304	198	32680	54.183	ppm	94
94) Diphenylamine	8.374	169	409379	91.423	ppm	97
95) 1,2 Diphenylhydrazine	8.411	77	283442	49.323	ppm	99
96) N-Nitrosodiphenylamine	8.374	169	409379	91.421	ppm	97
97) 1,3,5-Trinitrobenzene	8.636	213	17598	50.974	ppm #	93
98) Diallate	8.652	86	92144	48.033	ppm	78

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN088.D  
 Acq On : 23 Jan 2018 2:41 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

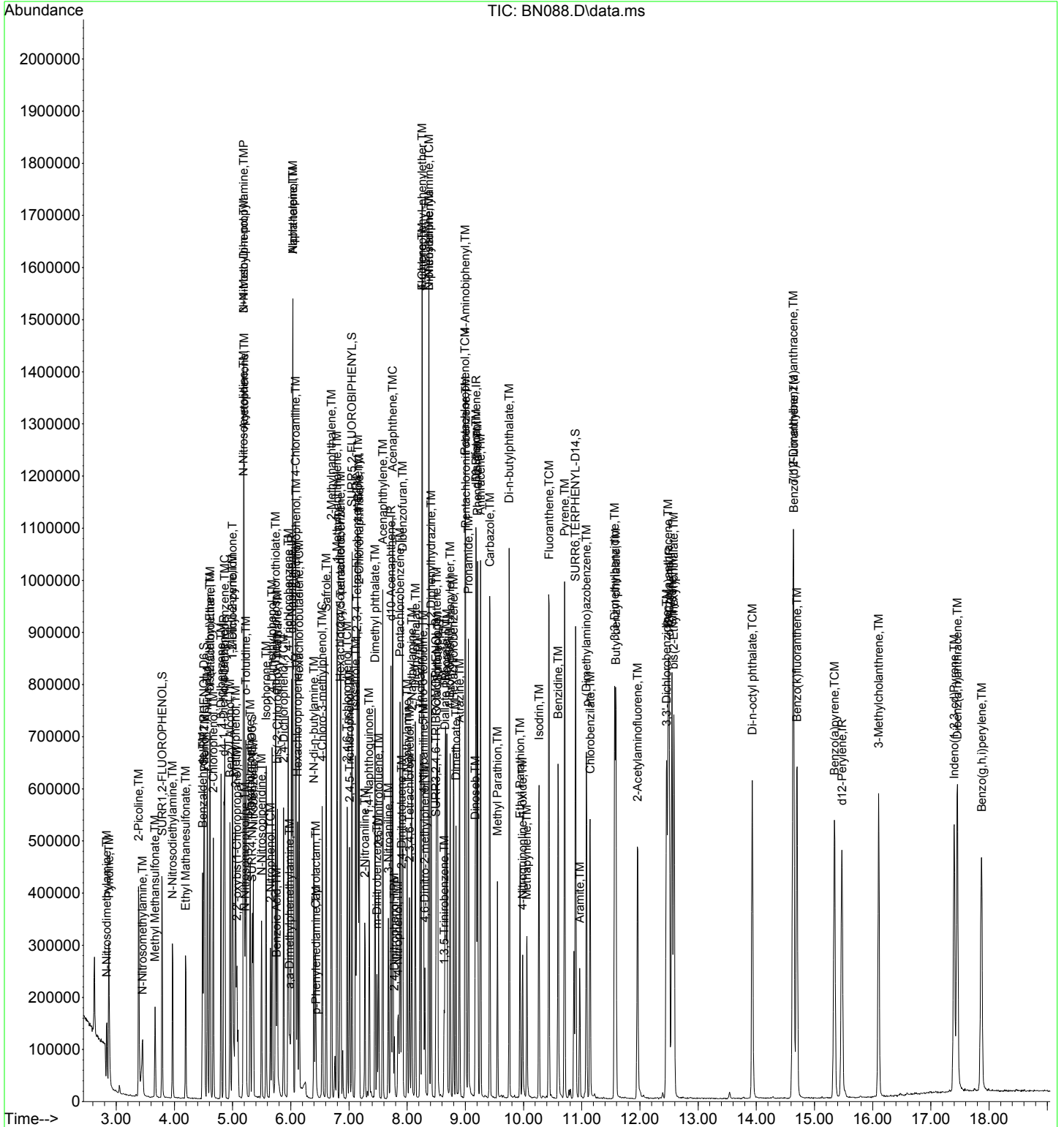
Quant Time: Jan 24 08:48:24 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.663	121	47555	49.528	ppm	97
100) Phenacetin	8.684	108	141437	49.125	ppm	99
101) 4-Bromophenyl-phenylether	8.738	248	67433	43.907	ppm	99
102) Hexachlorobenzene	8.796	284	88871	46.588	ppm	98
103) Dimethoate	8.839	87	97287	59.346	ppm	94
104) Atrazine	8.903	215	42729	49.347	ppm	91
105) Pentachlorophenol	8.994	266	48432	39.734	ppm	96
106) 4-Aminobiphenyl	9.000	169	292226	49.646	ppm	98
107) Pentachloronitrobenzene	9.005	237	29613	41.702	ppm	96
108) Pronamide	9.053	173	131124	50.829	ppm	98
109) Dinoseb	9.171	211	43438	44.651	ppm	96
110) Disulfoton	9.182	88	95013	51.543	ppm	94
111) Phenanthrene	9.208	178	386993	48.241	ppm	99
112) Anthracene	9.262	178	386888	49.058	ppm	98
113) Carbazole	9.422	167	412330	50.312	ppm	97
114) Di-n-butylphthalate	9.754	149	532644	53.389	ppm	99
115) 4-Nitroquinonline-1-oxide	9.984	190	27101	42.949	ppm	95
116) Fluoranthene	10.438	202	436267	50.907	ppm	98
118) Methyl Parathion	9.551	109	63120	52.791	ppm	99
119) Ethyl Parathion	9.941	97	44700	49.846	ppm	96
120) Methapyrilene	10.053	58	87296	42.959	ppm	97
121) Isodrin	10.267	193	43103	51.374	ppm	90
122) Benzidine	10.594	184	289066	52.731	ppm	98
123) Pyrene	10.706	202	461460	51.730	ppm	99
125) Aramite	10.968	185	50941m	53.414	ppm	
126) p-(Dimethylamino)azobe...	11.080	120	132173	51.866	ppm	94
127) Chlorobenzilate	11.144	139	119842	46.299	ppm	95
128) Butyl benzyl phthalate	11.588	149	240014	52.362	ppm	92
129) 3,3-Dimethylbenzidine	11.567	212	322510	53.445	ppm	98
130) 2-Acetylaminofluorene	11.957	181	158014	46.156	ppm	97
131) 3,3'-Dichlorobenzidine	12.455	252	200934	52.216	ppm	99
132) Benzo(a)anthracene	12.487	228	434411	49.724	ppm	97
133) Chrysene	12.551	228	405051	48.781	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.583	149	332684	52.355	ppm	100
136) Di-n-octyl phthalate	13.931	149	527656	50.240	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.637	256	207131	50.668	ppm	97
138) Benzo(b)Fluoranthene	14.642	252	459641	51.354	ppm	99
139) Benzo(k)fluoranthene	14.701	252	437288	50.555	ppm	98
140) Benzo(a)pyrene	15.343	252	384588	51.521	ppm	98
141) 3-Methylcholanthrene	16.103	268	217162	51.740	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.402	276	349418	53.111	ppm	100
143) Dibenz(a,h)anthracene	17.456	278	392313	52.329	ppm	98
144) Benzo(g,h,i)perylene	17.873	276	350302	51.541	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN088.D  
Acq On : 23 Jan 2018 2:41 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

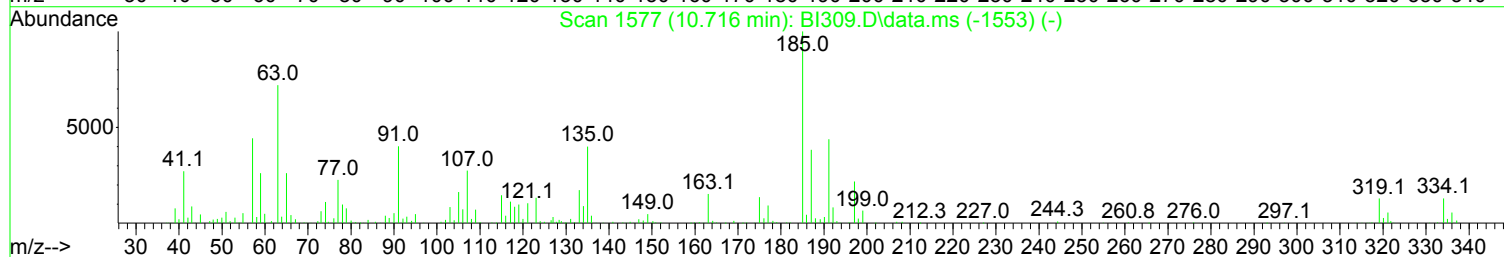
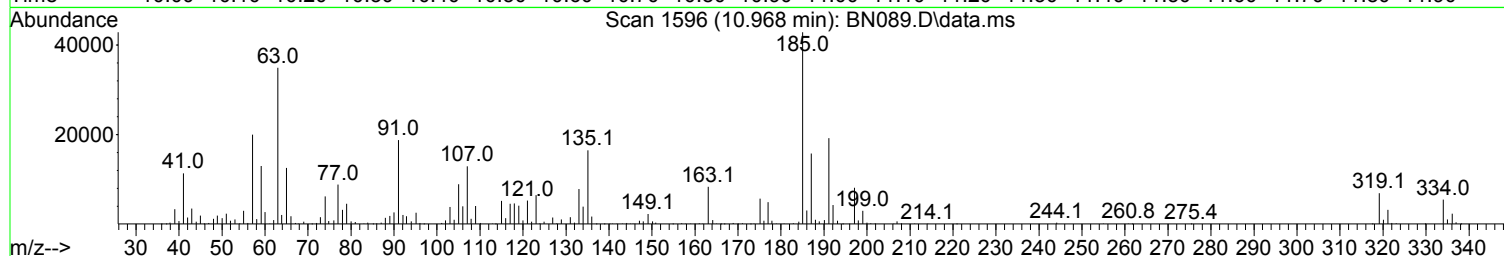
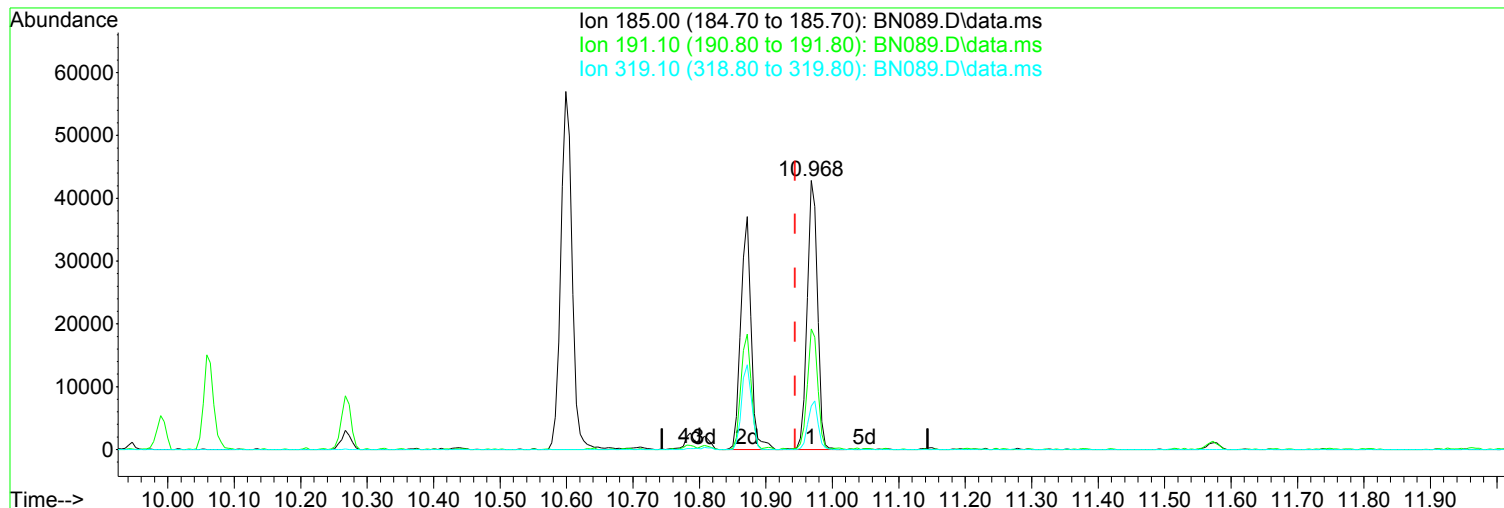
Quant Time: Jan 24 08:48:24 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN089.D  
 Acq On : 23 Jan 2018 3:24 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 08:48:30 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 88.29 ppm m

After

response 85339

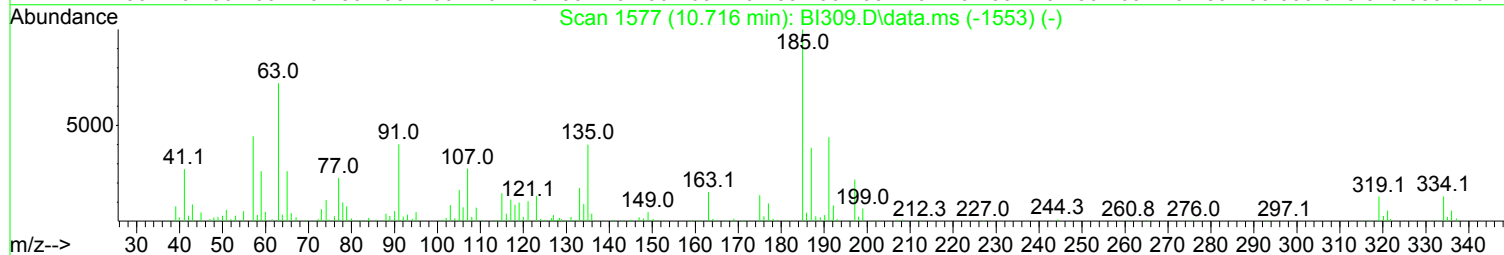
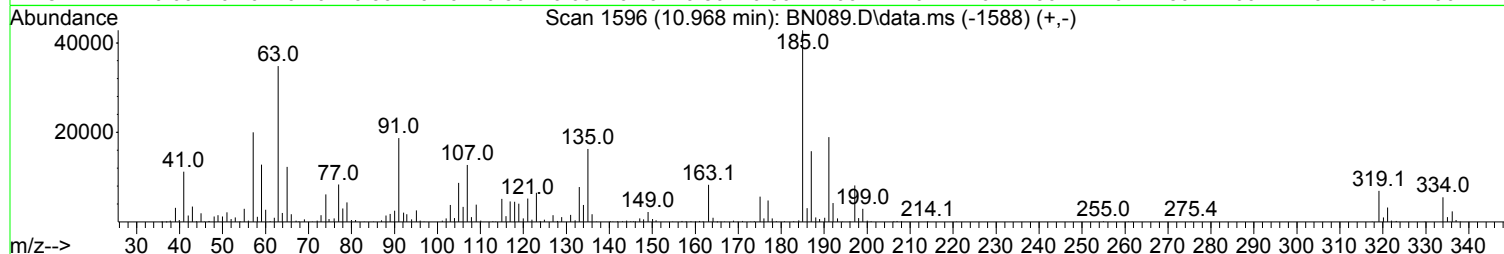
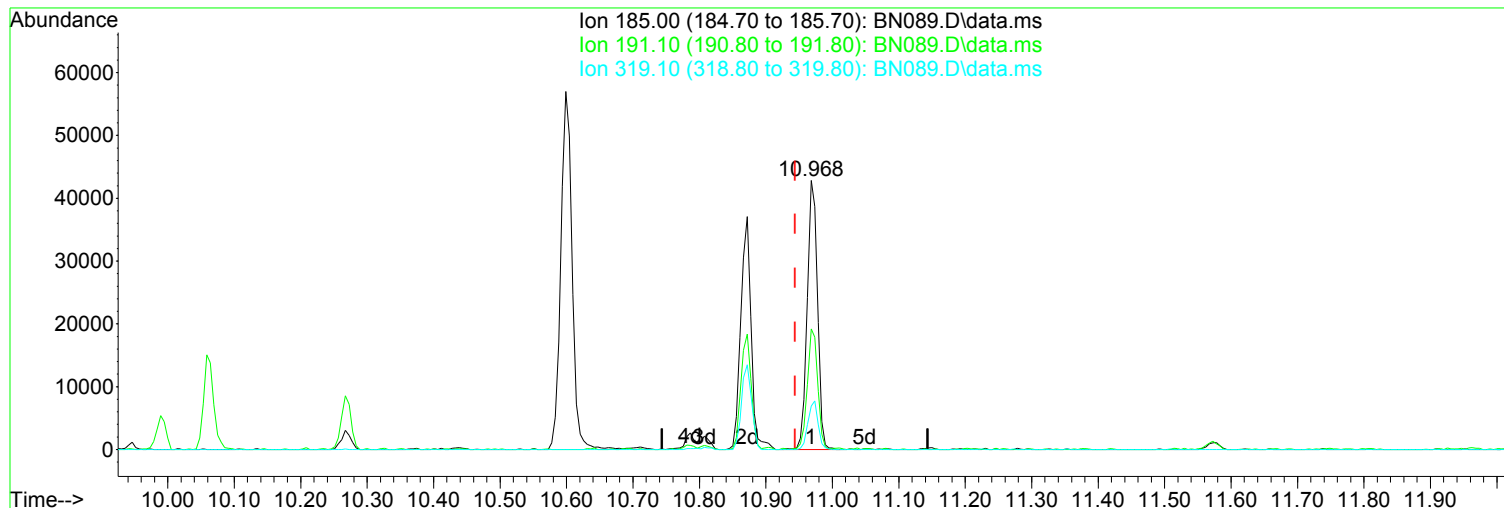
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	44.83
319.10	16.50	16.18
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN089.D  
 Acq On : 23 Jan 2018 3:24 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 08:48:30 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



TIC: BN089.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 47.15 ppm

Before

response 45581

Ion Exp% Act%

01/24/18

185.00 100.00 100.00

191.10 44.30 44.32

319.10 16.50 16.18

0.00 0.00 0.00

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN089.D  
 Acq On : 23 Jan 2018 3:24 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 08:48:30 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	89402	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	353226	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	178949	40.00	ppm	0.00	
91) d10-Phenanthrene	9.192	188	318604	40.00	ppm	0.00	
117) d12-Chrysene	12.508	240	316867	40.00	ppm	0.00	
135) d12-Perylene	15.477	264	303663	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.790	112	227604	84.00	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	42.00%	
12) SURR2,PHENOL-D6	4.507	99	272645	82.00	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	41.00%	
34) SURR4,NITROBENZENE-D5	5.341	82	201437	71.03	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	71.03%	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	489313	73.01	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	73.01%	
88) SURR3,2,4,6-TRIBROMOPH...	8.502	330	73617	76.22	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	38.11%	
124) SURR6,TERPHENYL-D14	10.899	244	534045	80.88	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	80.88%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.870	79	232137	87.405	ppm		93
3) N-Nitrosodimethylamine	2.833	74	114025	83.213	ppm		87
4) 2-Picoline	3.384	93	232957	82.986	ppm		99
5) N-Nitrosomethylamine	3.453	42	100574	74.353	ppm		87
6) Methyl Methansulfonate	3.667	80	102726	72.226	ppm		97
8) N-Nitrosodiethylamine	3.972	102	118902	82.801	ppm		89
9) Ethyl Mathanesulfonate	4.197	79	165228	83.768	ppm		97
10) Benzaldehyde	4.486	106	145395	89.352	ppm		94
11) Aniline	4.571	93	400253	83.352	ppm		97
13) Phenol	4.523	94	270956	83.132	ppm		92
14) bis(2-Clethyl)Ether	4.609	93	199061	82.150	ppm		97
15) Pentachloroethane	4.614	117	83799	80.163	ppm		100
16) 2-Chlorophenol	4.667	128	230161	82.250	ppm		99
17) 1,3-Diclbzene	4.806	146	250560	79.146	ppm		99
18) 1,4-Dichlorobenzene	4.865	146	254575	78.314	ppm		98
19) 1,2-Diclbzene	4.999	146	240350	79.142	ppm		99
20) Benzyl Alcohol	4.962	79	177481	81.706	ppm		97
21) 1-Methyl-2-pyrrolidinone	5.031	99	144171	83.502	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.074	45	210117	84.448	ppm		96
23) 2-Methylphenol	5.058	108	201837	82.471	ppm		98
24) 3+4-Methylphenol	5.197	108	214410	81.051	ppm		100
25) Acetophenone	5.202	105	314574	80.876	ppm		98
26) N-Nitroso-Di-n-propyla...	5.197	70	159021	80.771	ppm		92
27) N-Nitrosopyrrolidine	5.192	100	117815	81.507	ppm		89
28) N-Nitrosomorpholine	5.224	56	118235	75.957	ppm		83
29) o-Toluidine	5.229	106	345234	78.374	ppm		99
30) Hexachloroethane	5.304	117	100461	76.925	ppm		94
31) o,o,o-Triethylphosphor...	5.742	198	102195	79.239	ppm		93
32) Alpha-terpinol	6.037	121	79064	77.958	ppm		93
35) Nitrobenzene	5.357	77	216331	76.805	ppm		95
36) N-Nitrosopiperidine	5.502	42	126555	73.564	ppm		89
37) Isophorone	5.582	82	409906	79.810	ppm		98
38) 2-Nitrophenol	5.652	139	104212	76.514	ppm		91

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN089.D  
 Acq On : 23 Jan 2018 3:24 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 08:48:30 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.775	105	136746	62.697	ppm	93
40) 2,4-Dimethylphenol	5.684	107	221993	77.254	ppm	98
41) bis(-2-Chloroethoxy)Me...	5.775	93	251291	80.337	ppm	99
42) 2,4-Dichlorophenol	5.881	162	179972	76.900	ppm	97
43) a,a-Dimethylphenethyla...	6.021	58	458600	83.593	ppm	88
44) 1,2,4-Trichlorobenzene	5.956	180	203344	76.359	ppm	99
45) Naphthalene	6.037	128	665090	74.730	ppm	99
46) 4-Chloroaniline	6.085	127	330258	78.074	ppm	97
47) 2,6-Dichlorophenol	6.095	162	190721	73.911	ppm	98
48) Hexachlorobutadiene	6.149	225	117036	74.082	ppm	96
49) Hexachloropropene	6.117	213	136886	74.084	ppm	97
50) 4-Chloro-3-methylphenol	6.545	107	185489	78.637	ppm	96
51) N-N-di-n-butylamine	6.400	84	144316	71.428	ppm	99
52) Caprolactam	6.443	113	67749	78.637	ppm	89
53) p-Phenylenediamine	6.443	80	9616	82.395	ppm	# 51
54) Safrole	6.614	162	194911	76.453	ppm	96
55) 2-Methylnaphthalene	6.700	142	439342	74.923	ppm	99
56) 1-Methylnaphthalene	6.796	142	412765	74.924	ppm	98
58) Hexachlorocyclopentadiene	6.850	237	122734	79.171	ppm	95
59) 1,2,4,5-Tetrachloroben...	6.860	216	206580	71.297	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.138	216	204995	73.793	ppm	98
61) 2,4,6-Trichlorophenol	6.973	196	128547	77.187	ppm	98
62) 2,4,5-Trichlorophenol	7.015	196	122825	72.750	ppm	95
64) Isosafrole	7.117	104	84546	75.173	ppm	96
65) 1,1'-Biphenyl	7.154	154	544130	74.111	ppm	99
66) 2-Chloronaphthalene	7.176	162	413547	75.630	ppm	99
67) 2-Nitroaniline	7.277	65	94313	70.584	ppm	97
68) 1,4-Naphthoquinone	7.352	158	135988	79.435	ppm	98
69) m-Dinitrobenzene	7.486	168	55285	75.012	ppm	96
70) Acenaphthylene	7.582	152	661105	76.653	ppm	98
71) Dimethyl phthalate	7.454	163	463757	74.696	ppm	99
72) 2,6-Dinitrotoluene	7.513	165	88328	71.686	ppm	95
73) Acenaphthene	7.754	153	442865	73.011	ppm	97
74) 3-Nitroaniline	7.684	138	106957	75.198	ppm	97
75) 2,4-Dinitrophenol	7.786	184	34536	86.602	ppm	81
76) Dibenzofuran	7.925	168	585893	74.496	ppm	99
77) 2,4-Dinitrotoluene	7.909	165	118080	75.264	ppm	91
78) 4-Nitrophenol	7.844	65	69601	68.767	ppm	98
79) Pentachlorobenzene	7.882	250	185282	74.948	ppm	99
80) 1-Naphthylamine	8.005	143	274102	74.457	ppm	97
81) 2-Naphthylamine	8.085	143	377428	74.401	ppm	94
82) 2,3,4,6-Tetrachlorophenol	8.042	232	91116	72.736	ppm	98
83) Fluorene	8.262	166	460288	73.039	ppm	98
84) 4-Chlorophenyl-phenyle...	8.256	204	207139	74.972	ppm	95
85) Diethylphthalate	8.144	149	478677	75.823	ppm	99
86) 4-Nitroaniline	8.288	138	134755	77.767	ppm	92
87) 5-Nitro-o-toluidine	8.278	152	123123	73.909	ppm	98
89) Sulfotepp	8.529	322	72137	80.075	ppm	86
90) Octachlorocyclopentene	8.513	307	77860	82.789	ppm	99
92) Thionazin	8.230	107	75706	79.567	ppm	98
93) 4,6-Dinitro-2-methylph...	8.315	198	60285	84.163	ppm	88
94) Diphenylamine	8.379	169	680936	145.083	ppm	99
95) 1,2 Diphenylhydrazine	8.417	77	439815	73.020	ppm	97
96) N-Nitrosodiphenylamine	8.379	169	680936	145.080	ppm	99
97) 1,3,5-Trinitrobenzene	8.647	213	32411	79.261	ppm	# 97
98) Diallate	8.657	86	156592	77.880	ppm	99

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN089.D  
 Acq On : 23 Jan 2018 3:24 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

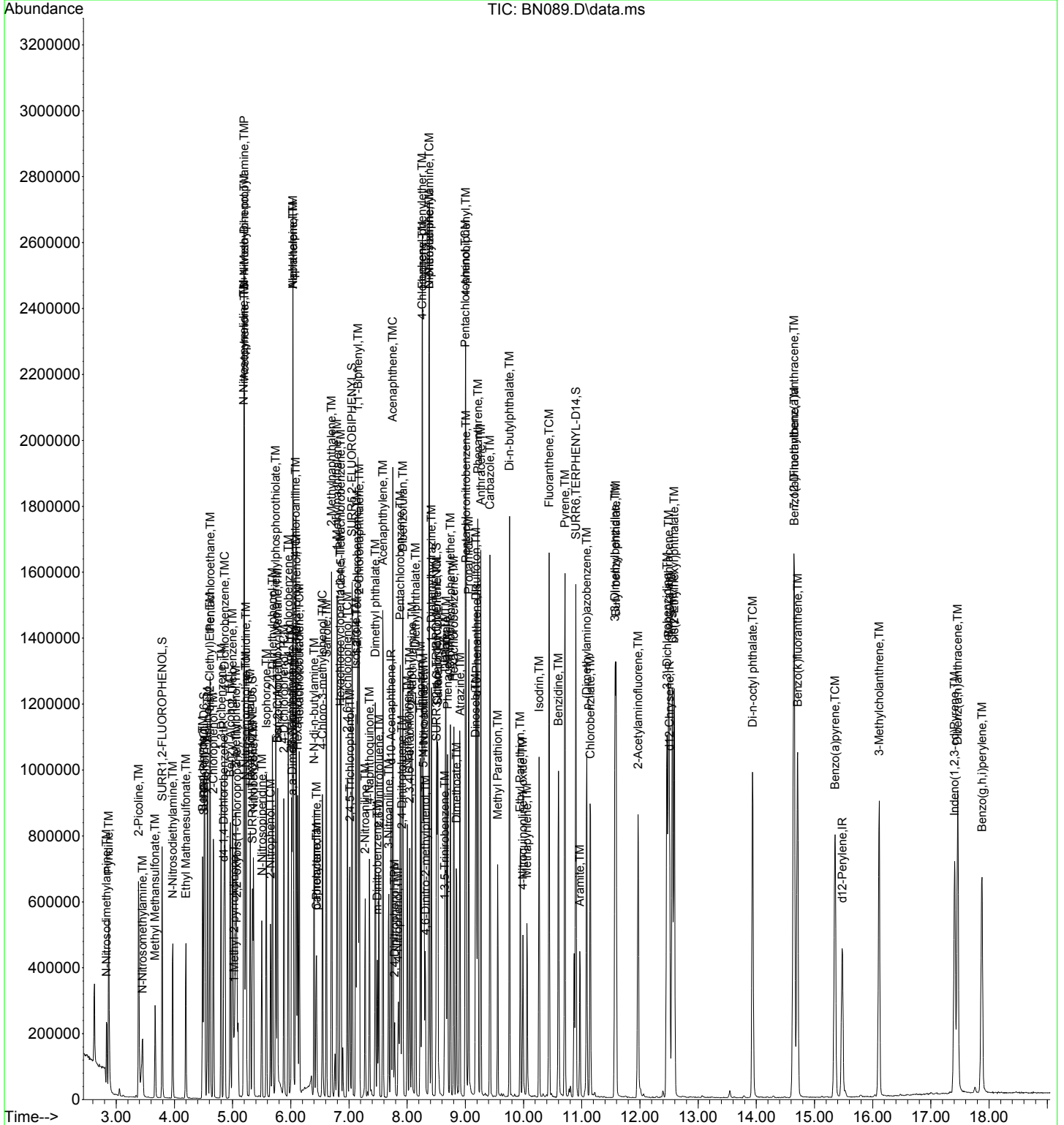
Quant Time: Jan 24 08:48:30 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.668	121	80970	80.456	ppm	97
100) Phenacetin	8.695	108	235117	77.911	ppm	96
101) 4-Bromophenyl-phenylether	8.743	248	115846	71.966	ppm	95
102) Hexachlorobenzene	8.802	284	145805	72.924	ppm	97
103) Dimethoate	8.845	87	146558	85.296	ppm	96
104) Atrazine	8.909	215	69179	76.224	ppm	84
105) Pentachlorophenol	9.000	266	88541	69.303	ppm	98
106) 4-Aminobiphenyl	9.005	169	481060	77.973	ppm	99
107) Pentachloronitrobenzene	9.010	237	53034	71.254	ppm	91
108) Pronamide	9.059	173	216269	79.984	ppm	98
109) Dinoseb	9.176	211	81338	79.769	ppm	96
110) Disulfoton	9.182	88	152039	78.690	ppm	94
111) Phenanthrene	9.214	178	631225	75.072	ppm	99
112) Anthracene	9.267	178	645919	78.142	ppm	99
113) Carbazole	9.422	167	664624	77.372	ppm	98
114) Di-n-butylphthalate	9.759	149	861134	82.351	ppm	99
115) 4-Nitroquinonline-1-oxide	9.989	190	50435	76.257	ppm	99
116) Fluoranthene	10.439	202	719000	80.045	ppm	99
118) Methyl Parathion	9.556	109	106255	87.680	ppm	96
119) Ethyl Parathion	9.941	97	77452	79.790	ppm	95
120) Methapyrilene	10.059	58	140875	68.399	ppm	93
121) Isodrin	10.267	193	72814	85.626	ppm	94
122) Benzidine	10.599	184	467234	84.093	ppm	98
123) Pyrene	10.711	202	725273	80.218	ppm	99
125) Aramite	10.968	185	85339m	88.286	ppm	
126) p-(Dimethylamino)azobe...	11.086	120	216329	83.755	ppm	94
127) Chlorobenzilate	11.145	139	209995	80.044	ppm	95
128) Butyl benzyl phthalate	11.588	149	391545	84.278	ppm	95
129) 3,3-Dimethylbenzidine	11.572	212	522334	85.402	ppm	99
130) 2-Acetylaminofluorene	11.968	181	276508	79.689	ppm	98
131) 3,3'-Dichlorobenzidine	12.466	252	330378	84.707	ppm	98
132) Benzo(a)anthracene	12.492	228	702120	79.293	ppm	99
133) Chrysene	12.557	228	650409	77.283	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.589	149	550464	85.470	ppm	99
136) Di-n-octyl phthalate	13.937	149	895415	82.846	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.648	256	340995	85.454	ppm	95
138) Benzo(b)Fluoranthene	14.653	252	742861	85.028	ppm	98
139) Benzo(k)fluoranthene	14.712	252	699629	82.863	ppm	99
140) Benzo(a)pyrene	15.354	252	619101	84.966	ppm	99
141) 3-Methylcholanthrene	16.113	268	358801	87.578	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.408	276	525619	81.849	ppm	97
143) Dibenz(a,h)anthracene	17.461	278	596832	81.557	ppm	98
144) Benzo(g,h,i)perylene	17.878	276	508289	76.617	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

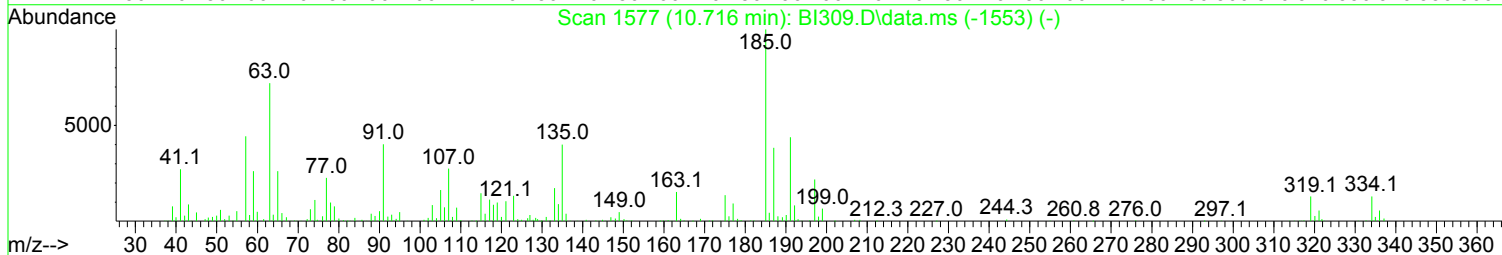
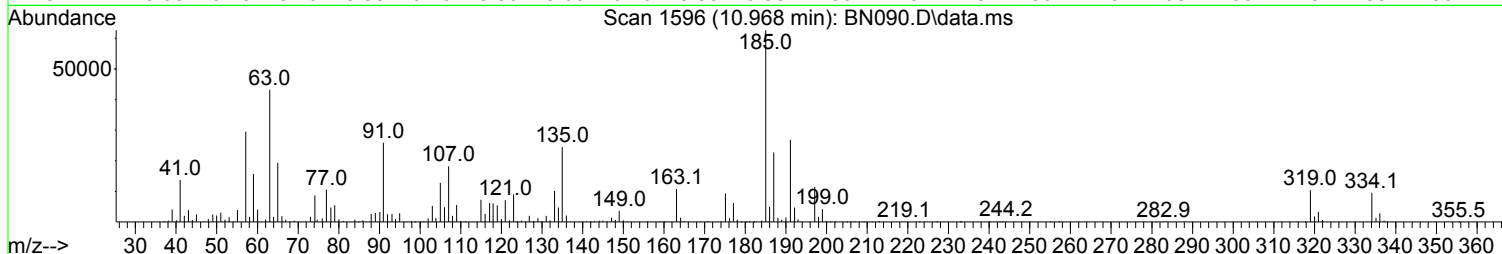
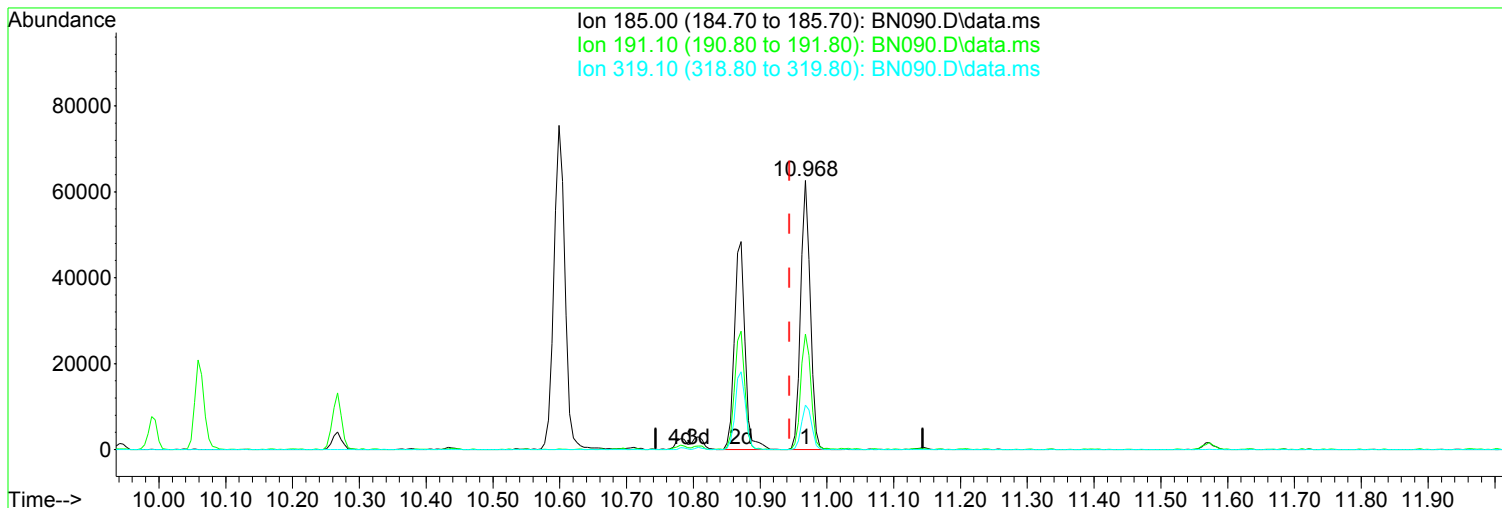
Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN089.D  
Acq On : 23 Jan 2018 3:24 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 08:48:30 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN090.D  
Acq On : 23 Jan 2018 3:52 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 118.99 ppm m

After

response 116144

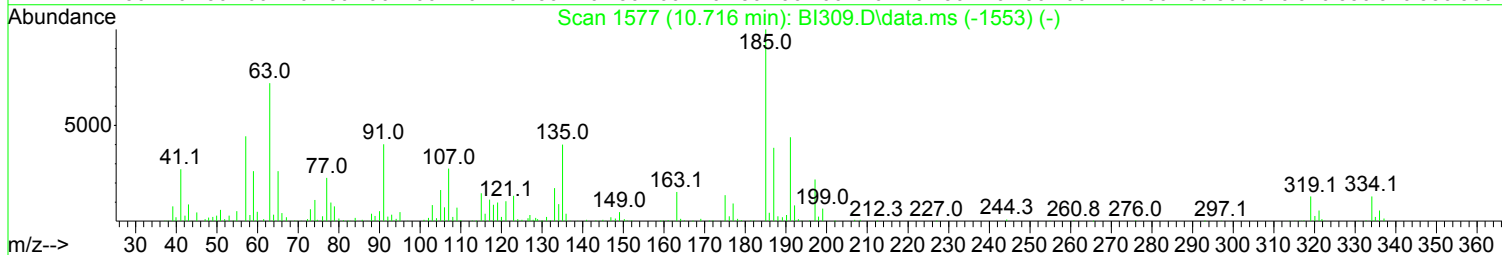
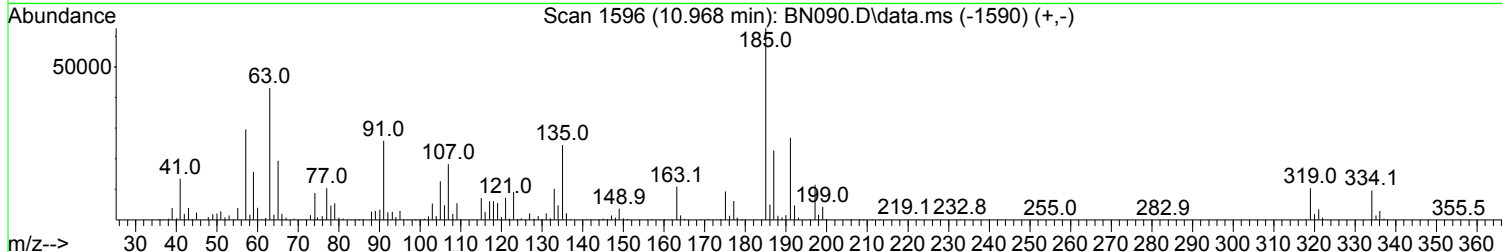
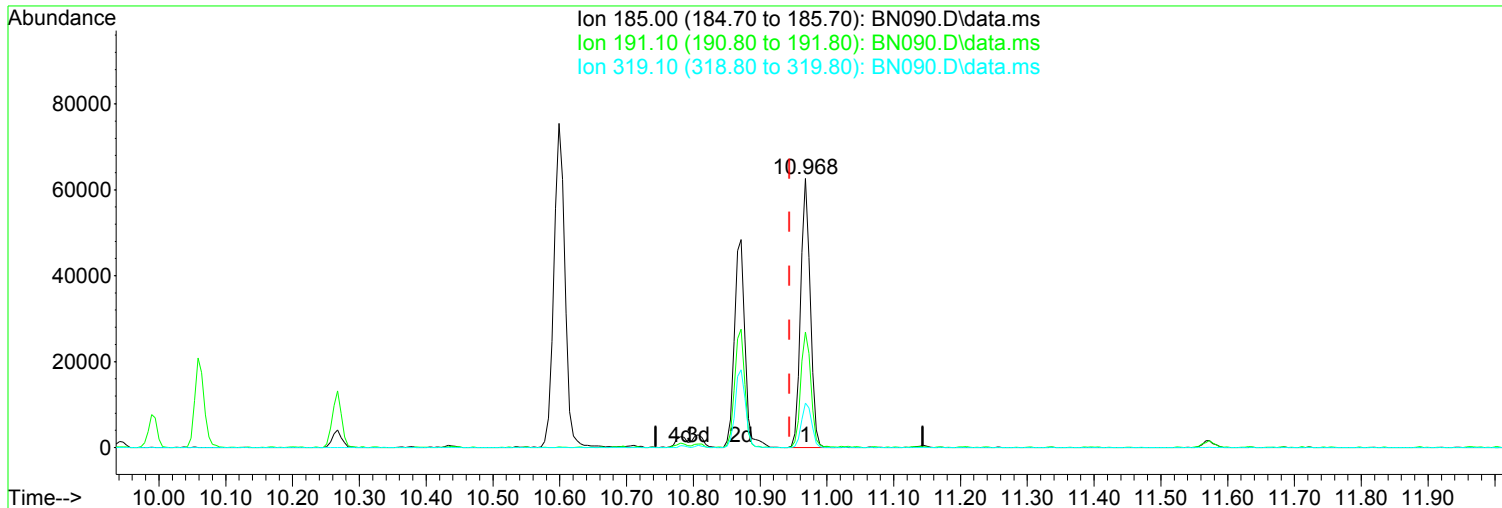
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	42.99
319.10	16.50	16.60
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN090.D  
 Acq On : 23 Jan 2018 3:52 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



TIC: BN090.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 64.13 ppm

Before

response 62593

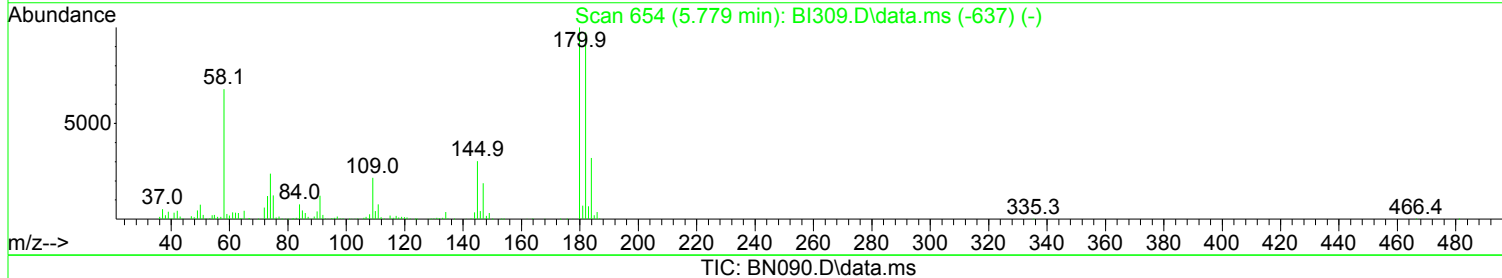
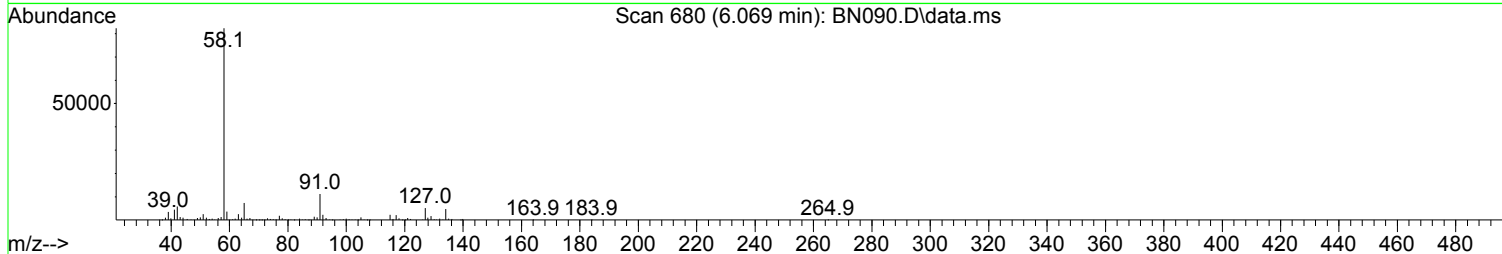
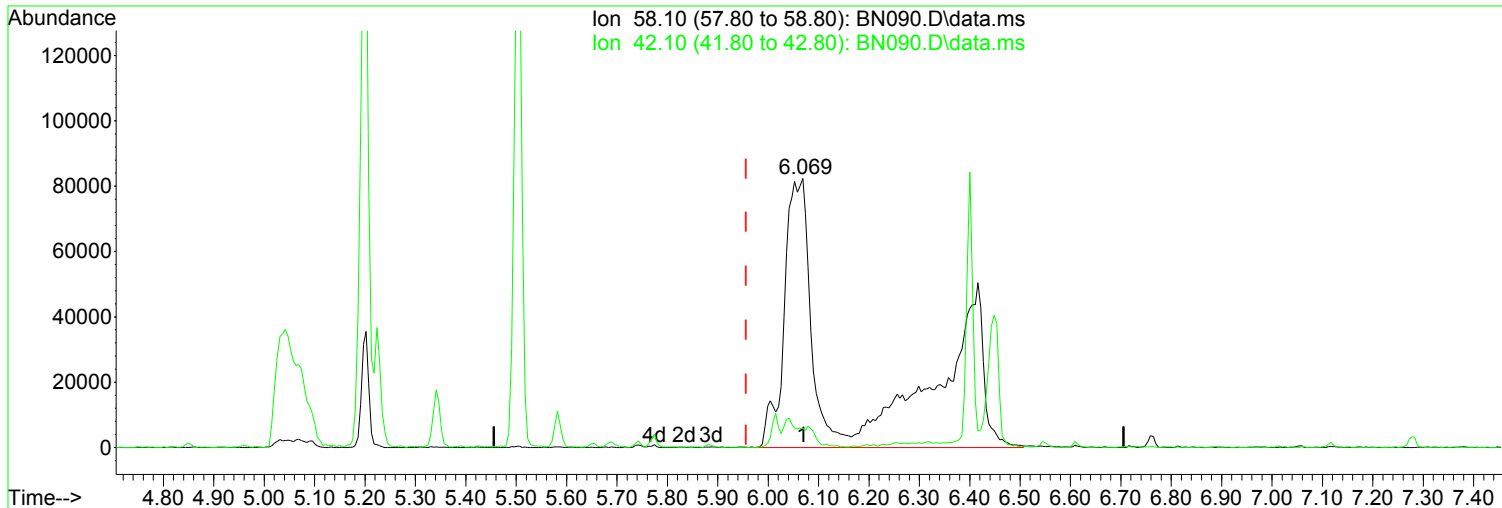
Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	42.88
319.10	16.50	16.60
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN090.D  
Acq On : 23 Jan 2018 3:52 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.069min (+ 0.112) 101.67 ppm m

After

response 619377

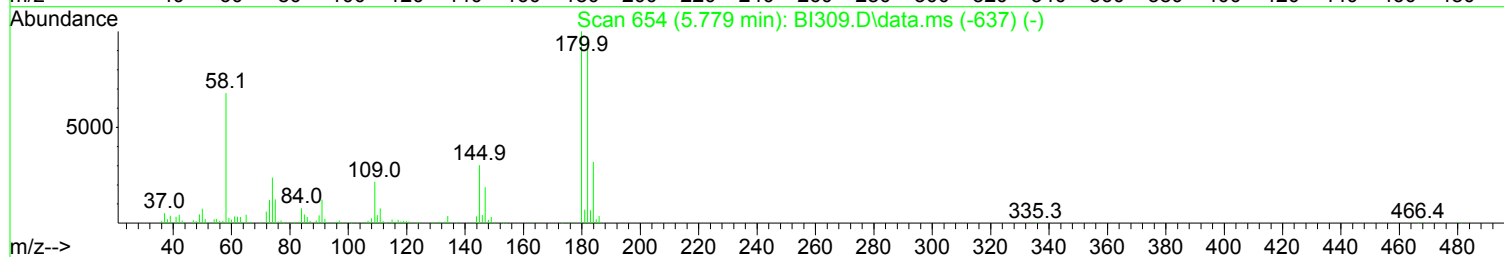
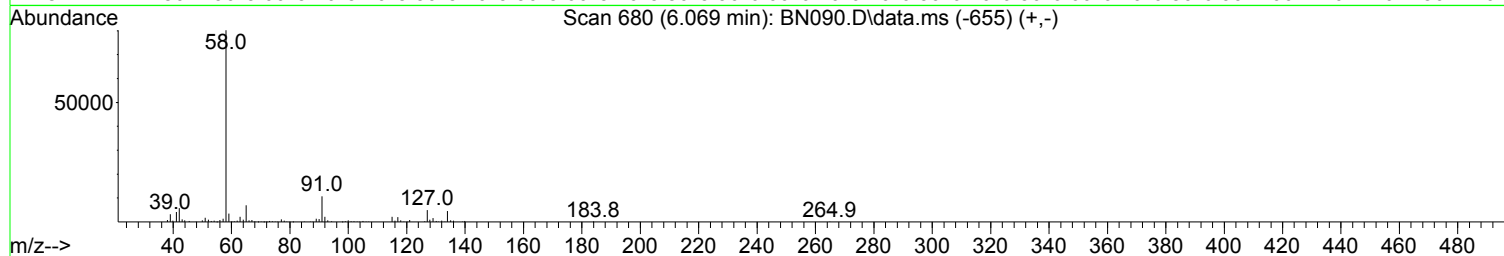
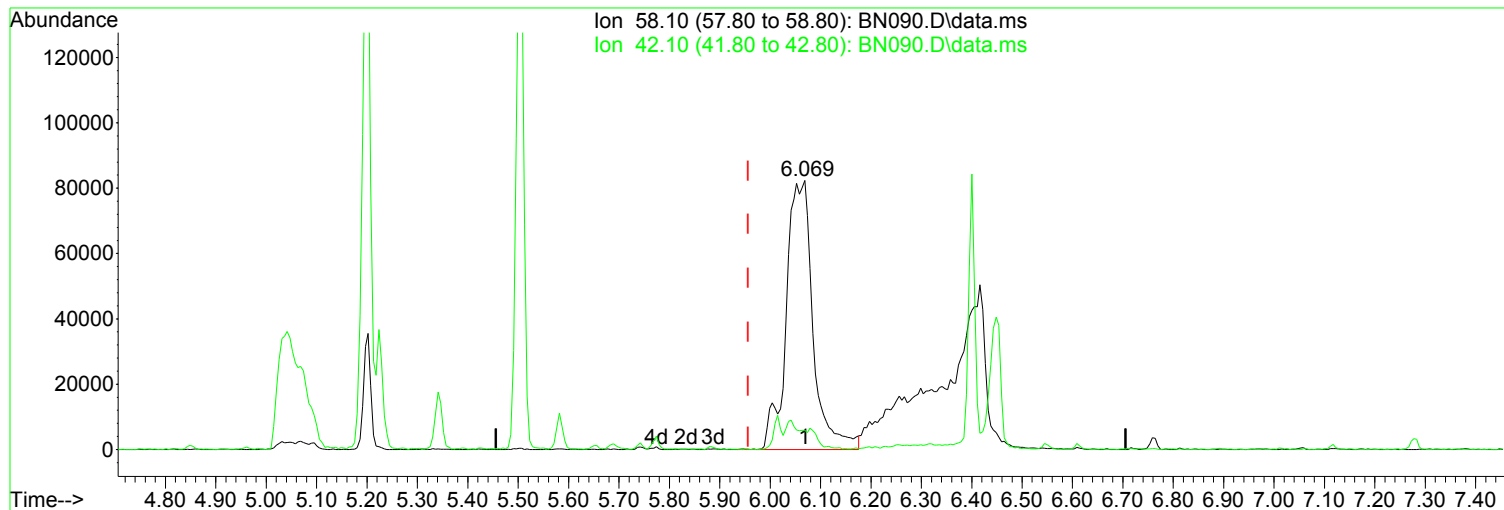
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	7.16
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN090.D  
Acq On : 23 Jan 2018 3:52 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.069min (+ 0.112) 50.06 ppm

Before

response 304937

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	7.09
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN090.D  
 Acq On : 23 Jan 2018 3:52 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.849	152	100106	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	392233	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	188523	40.00	ppm	0.00	
91) d10-Phenanthrene	9.192	188	345279	40.00	ppm	0.00	
117) d12-Chrysene	12.508	240	319955	40.00	ppm	0.00	
135) d12-Perylene	15.477	264	303800	40.00	ppm	0.00	
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.790	112	316271	104.25	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	52.13%	
12) SURR2,PHENOL-D6	4.512	99	374299	100.54	ppm	0.01	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	50.27%	
34) SURR4,NITROBENZENE-D5	5.341	82	292198	92.78	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	92.78%	
63) SURR5,2-FLUOROBIPHENYL	7.053	172	672447	95.24	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	95.24%	
88) SURR3,2,4,6-TRIBROMOPH...	8.502	330	105802	103.98	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	51.99%	
124) SURR6,TERPHENYL-D14	10.898	244	705464	105.81	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	105.81%	
Target Compounds							
							Qvalue
2) Pyridine	2.870	79	313521	105.426	ppm		95
3) N-Nitrosodimethylamine	2.833	74	160900	103.926	ppm		87
4) 2-Picoline	3.384	93	317838	101.117	ppm		98
5) N-Nitrosomethylamine	3.448	42	140677	92.880	ppm		89
6) Methyl Methansulfonate	3.667	80	143775	90.278	ppm		100
8) N-Nitrosodiethylamine	3.972	102	164742	102.456	ppm		88
9) Ethyl Mathanesulfonate	4.197	79	224628	101.706	ppm		99
10) Benzaldehyde	4.485	106	199421	109.449	ppm		95
11) Aniline	4.571	93	550680	102.416	ppm		99
13) Phenol	4.523	94	373790	102.419	ppm		96
14) bis(2-Clethyl)Ether	4.608	93	273922	100.956	ppm		96
15) Pentachloroethane	4.614	117	117096	100.038	ppm		97
16) 2-Chlorophenol	4.673	128	316605	101.043	ppm		96
17) 1,3-Diclbzene	4.801	146	337321	95.158	ppm		97
18) 1,4-Dichlorobenzene	4.865	146	352752	96.912	ppm		99
19) 1,2-Diclbzene	4.999	146	332835	97.877	ppm		100
20) Benzyl Alcohol	4.961	79	245948	101.119	ppm		97
21) 1-Methyl-2-pyrrolidinone	5.042	99	190768	98.676	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.074	45	285486	102.471	ppm		95
23) 2-Methylphenol	5.058	108	274761	100.263	ppm		98
24) 3+4-Methylphenol	5.197	108	295668	99.817	ppm		86
25) Acetophenone	5.202	105	431354	99.042	ppm		90
26) N-Nitroso-Di-n-propyla...	5.202	70	214631	97.360	ppm		92
27) N-Nitrosopyrrolidine	5.197	100	159928	98.811	ppm		93
28) N-Nitrosomorpholine	5.224	56	162299	93.116	ppm		94
29) o-Toluidine	5.234	106	473054	95.908	ppm		96
30) Hexachloroethane	5.304	117	140027	95.757	ppm		88
31) o,o,o-Triethylphosphor...	5.742	198	143684	99.496	ppm		92
32) Alpha-terpinol	6.042	121	113015	99.518	ppm		96
35) Nitrobenzene	5.363	77	308107	98.510	ppm		94
36) N-Nitrosopiperidine	5.502	42	171671	89.866	ppm		91
37) Isophorone	5.582	82	564850	99.041	ppm		99
38) 2-Nitrophenol	5.651	139	150070	94.928	ppm		94

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN090.D  
 Acq On : 23 Jan 2018 3:52 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.790	105	208448	86.068	ppm	96
40) 2,4-Dimethylphenol	5.689	107	310341	97.259	ppm	97
41) bis(-2-Chloroethoxy)Me...	5.774	93	338102	97.341	ppm	99
42) 2,4-Dichlorophenol	5.887	162	249555	96.027	ppm	97
43) a,a-Dimethylphenethyla...	6.069	58	619377m	101.671	ppm	
44) 1,2,4-Trichlorobenzene	5.956	180	280765	94.947	ppm	100
45) Naphthalene	6.037	128	903856	91.458	ppm	99
46) 4-Chloroaniline	6.090	127	446750	95.110	ppm	99
47) 2,6-Dichlorophenol	6.095	162	267793	93.459	ppm	99
48) Hexachlorobutadiene	6.144	225	161723	92.187	ppm	98
49) Hexachloropropene	6.117	213	195812	95.436	ppm	100
50) 4-Chloro-3-methylphenol	6.550	107	247875	94.635	ppm	94
51) N-N-di-n-butylamine	6.400	84	196552	87.607	ppm	96
52) Caprolactam	6.448	113	91920	96.082	ppm	95
53) p-Phenylenediamine	6.443	80	11144	85.991	ppm	88
54) Safrole	6.614	162	267636	94.539	ppm	95
55) 2-Methylnaphthalene	6.700	142	593537	91.152	ppm	99
56) 1-Methylnaphthalene	6.796	142	560479	91.619	ppm	99
58) Hexachlorocyclopentadiene	6.850	237	175088	107.206	ppm	97
59) 1,2,4,5-Tetrachloroben...	6.860	216	289637	94.886	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.138	216	279620	95.545	ppm	98
61) 2,4,6-Trichlorophenol	6.973	196	175596	100.083	ppm	98
62) 2,4,5-Trichlorophenol	7.015	196	174101	97.884	ppm	96
64) Isosafrole	7.117	104	113232	95.565	ppm	96
65) 1,1'-Biphenyl	7.154	154	738756	95.509	ppm	99
66) 2-Chloronaphthalene	7.176	162	568283	98.650	ppm	99
67) 2-Nitroaniline	7.277	65	131625	90.962	ppm	98
68) 1,4-Naphthoquinone	7.352	158	181008	100.363	ppm	96
69) m-Dinitrobenzene	7.491	168	80948	96.479	ppm	# 71
70) Acenaphthylene	7.582	152	879765	96.825	ppm	100
71) Dimethyl phthalate	7.454	163	632792	96.746	ppm	100
72) 2,6-Dinitrotoluene	7.513	165	128791	99.217	ppm	94
73) Acenaphthene	7.753	153	593952	92.946	ppm	99
74) 3-Nitroaniline	7.684	138	154223	97.735	ppm	100
75) 2,4-Dinitrophenol	7.786	184	53531	111.722	ppm	88
76) Dibenzofuran	7.925	168	773052	93.302	ppm	97
77) 2,4-Dinitrotoluene	7.914	165	170028	96.287	ppm	93
78) 4-Nitrophenol	7.850	65	101680	90.315	ppm	88
79) Pentachlorobenzene	7.882	250	241019	92.543	ppm	99
80) 1-Naphthylamine	8.005	143	373280	96.248	ppm	98
81) 2-Naphthylamine	8.085	143	504819	94.459	ppm	95
82) 2,3,4,6-Tetrachlorophenol	8.042	232	131957	99.989	ppm	97
83) Fluorene	8.262	166	616450	92.851	ppm	97
84) 4-Chlorophenyl-phenyle...	8.256	204	269388	92.551	ppm	94
85) Diethylphthalate	8.144	149	665058	99.996	ppm	99
86) 4-Nitroaniline	8.294	138	172287	92.861	ppm	93
87) 5-Nitro-o-toluidine	8.283	152	173025	94.039	ppm	98
89) Sulfotepp	8.529	322	104252	109.846	ppm	81
90) Octachlorocyclopentene	8.513	307	106884	107.879	ppm	97
92) Thionazin	8.229	107	104524	101.367	ppm	99
93) 4,6-Dinitro-2-methylph...	8.315	198	91510	108.179	ppm	92
94) Diphenylamine	8.379	169	951231	187.015	ppm	97
95) 1,2 Diphenylhydrazine	8.417	77	584847	89.597	ppm	95
96) N-Nitrosodiphenylamine	8.379	169	951231	187.012	ppm	97
97) 1,3,5-Trinitrobenzene	8.652	213	46601	98.163	ppm	# 99
98) Diallate	8.657	86	216215	99.226	ppm	94

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN090.D  
 Acq On : 23 Jan 2018 3:52 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 08:48:37 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

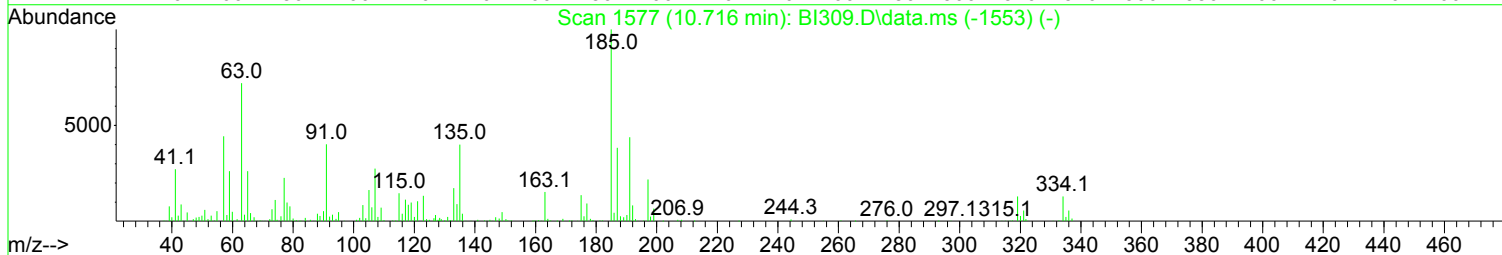
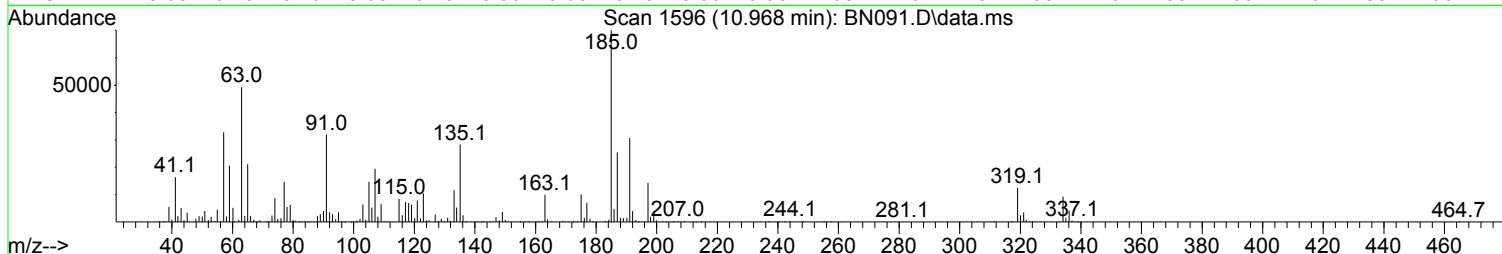
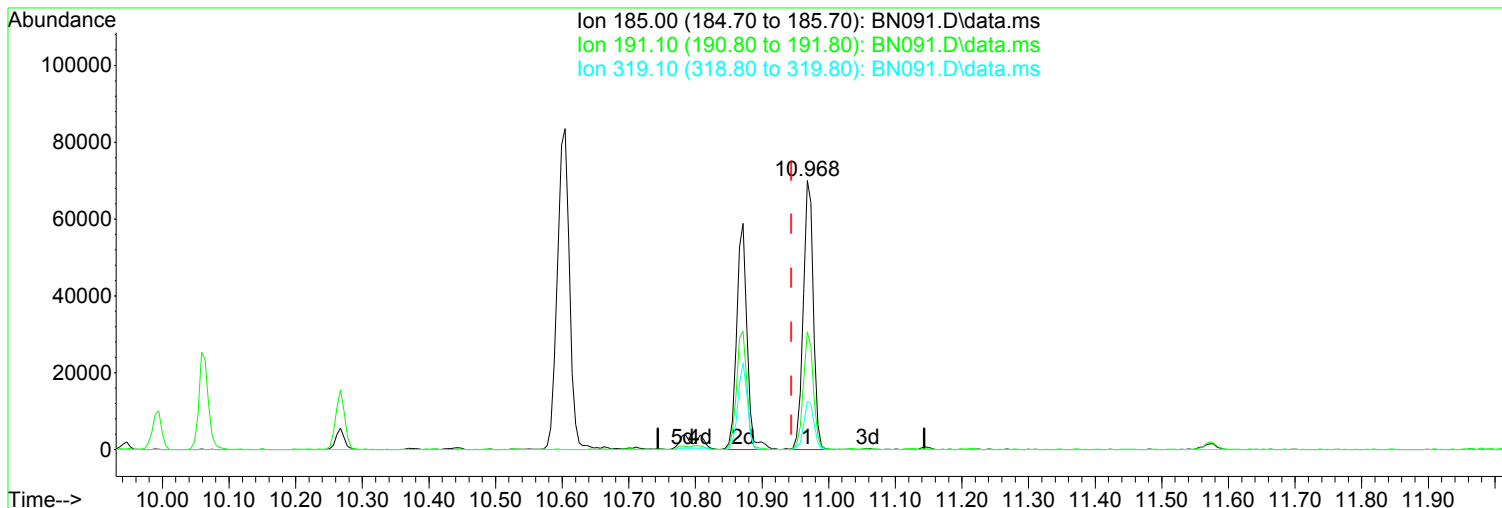
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.668	121	112664	103.300	ppm	96
100) Phenacetin	8.700	108	313043	95.720	ppm	98
101) 4-Bromophenyl-phenylether	8.743	248	160115	91.782	ppm	93
102) Hexachlorobenzene	8.802	284	202696	93.546	ppm	97
103) Dimethoate	8.850	87	190149	102.116	ppm	99
104) Atrazine	8.909	215	91229	92.754	ppm	95
105) Pentachlorophenol	9.000	266	127969	92.426	ppm	98
106) 4-Aminobiphenyl	9.005	169	643963	96.314	ppm	99
107) Pentachloronitrobenzene	9.010	237	76426	94.749	ppm	89
108) Pronamide	9.059	173	291170	99.366	ppm	99
109) Dinoseb	9.176	211	116782	105.681	ppm	96
110) Disulfoton	9.182	88	210070	100.325	ppm	92
111) Phenanthrene	9.214	178	855958	93.935	ppm	99
112) Anthracene	9.267	178	869389	97.051	ppm	99
113) Carbazole	9.422	167	877663	94.279	ppm	100
114) Di-n-butylphthalate	9.759	149	1159163	102.287	ppm	98
115) 4-Nitroquinonline-1-oxide	9.989	190	70946	98.982	ppm	99
116) Fluoranthene	10.438	202	931459	95.687	ppm	98
118) Methyl Parathion	9.556	109	150651	123.115	ppm	93
119) Ethyl Parathion	9.941	97	110688	108.230	ppm	97
120) Methapyrilene	10.059	58	183787	88.373	ppm	91
121) Isodrin	10.267	193	99393	115.754	ppm	90
122) Benzidine	10.599	184	601871	107.280	ppm	98
123) Pyrene	10.711	202	948708	103.917	ppm	100
125) Aramite	10.968	185	116144m	118.995	ppm	
126) p-(Dimethylamino)azobe...	11.086	120	286024	109.670	ppm	93
127) Chlorobenzilate	11.144	139	276781	104.482	ppm	96
128) Butyl benzyl phthalate	11.588	149	517599	110.336	ppm	96
129) 3,3-Dimethylbenzidine	11.572	212	680551	110.196	ppm	99
130) 2-Acetylaminofluorene	11.974	181	366951	104.734	ppm	97
131) 3,3'-Dichlorobenzidine	12.466	252	424468	107.780	ppm	99
132) Benzo(a)anthracene	12.492	228	905274	101.249	ppm	99
133) Chrysene	12.562	228	837391	98.540	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.589	149	737810	113.453	ppm	100
136) Di-n-octyl phthalate	13.936	149	1213893	108.615	ppm	96
137) 7,12-Dimethylbenz(a)an...	14.648	256	433813	108.666	ppm	97
138) Benzo(b)Fluoranthene	14.653	252	928988	106.284	ppm	99
139) Benzo(k)fluoranthene	14.712	252	883749	104.623	ppm	99
140) Benzo(a)pyrene	15.354	252	780896	107.123	ppm	98
141) 3-Methylcholanthrene	16.113	268	457742	111.678	ppm	96
142) Indeno(1,2,3-cd)Pyrene	17.413	276	668535	104.057	ppm	96
143) Dibenz(a,h)anthracene	17.467	278	763951	104.346	ppm	97
144) Benzo(g,h,i)perylene	17.878	276	650478	98.005	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN091.D  
Acq On : 23 Jan 2018 4:20 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 139.65 ppm m

After

response 137237

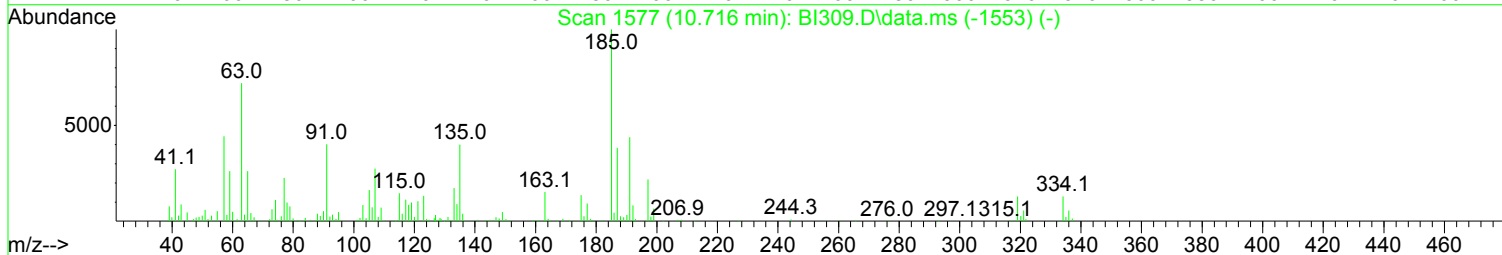
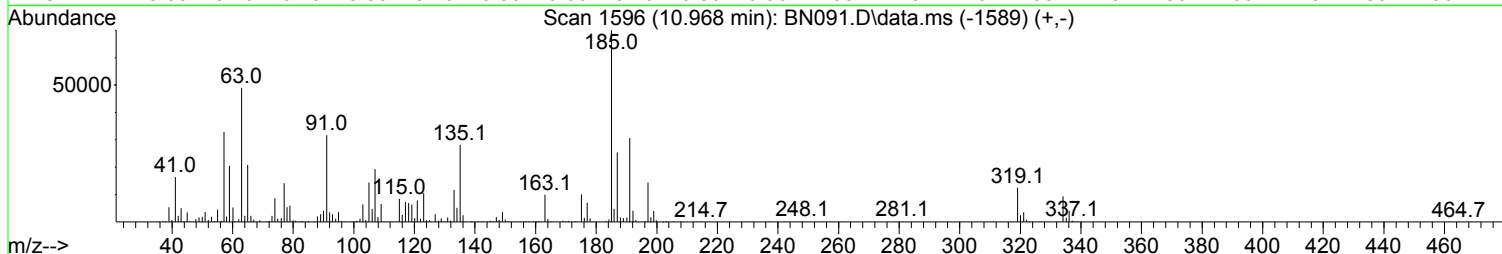
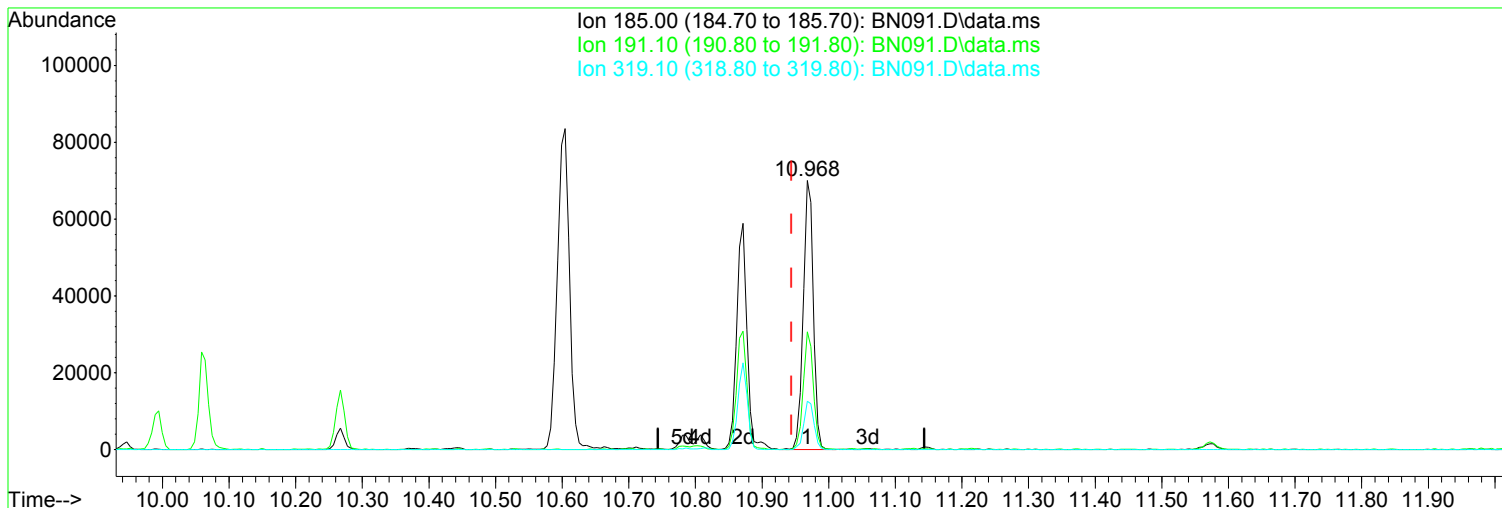
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	43.76
319.10	16.50	17.95
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN091.D  
Acq On : 23 Jan 2018 4:20 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN091.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.968min (+ 0.024) 75.04 ppm

Before

response 73737

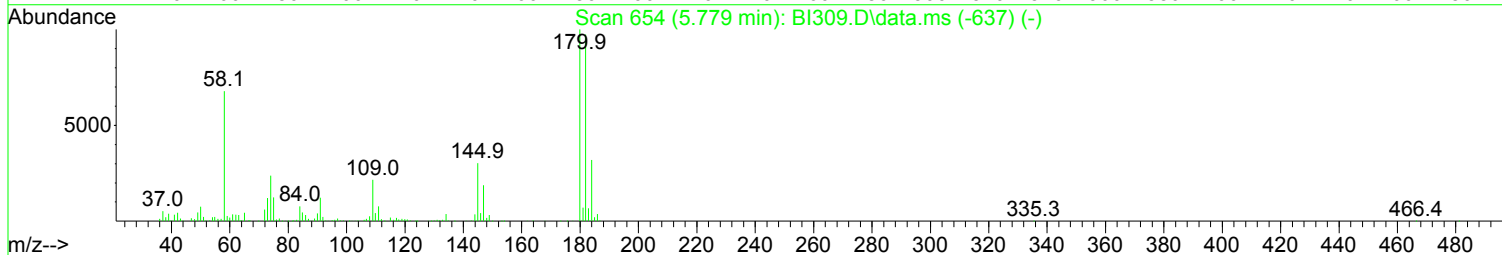
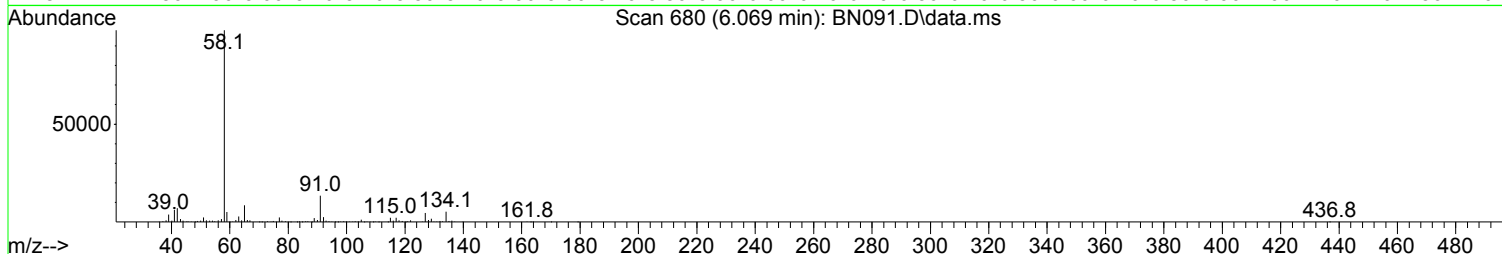
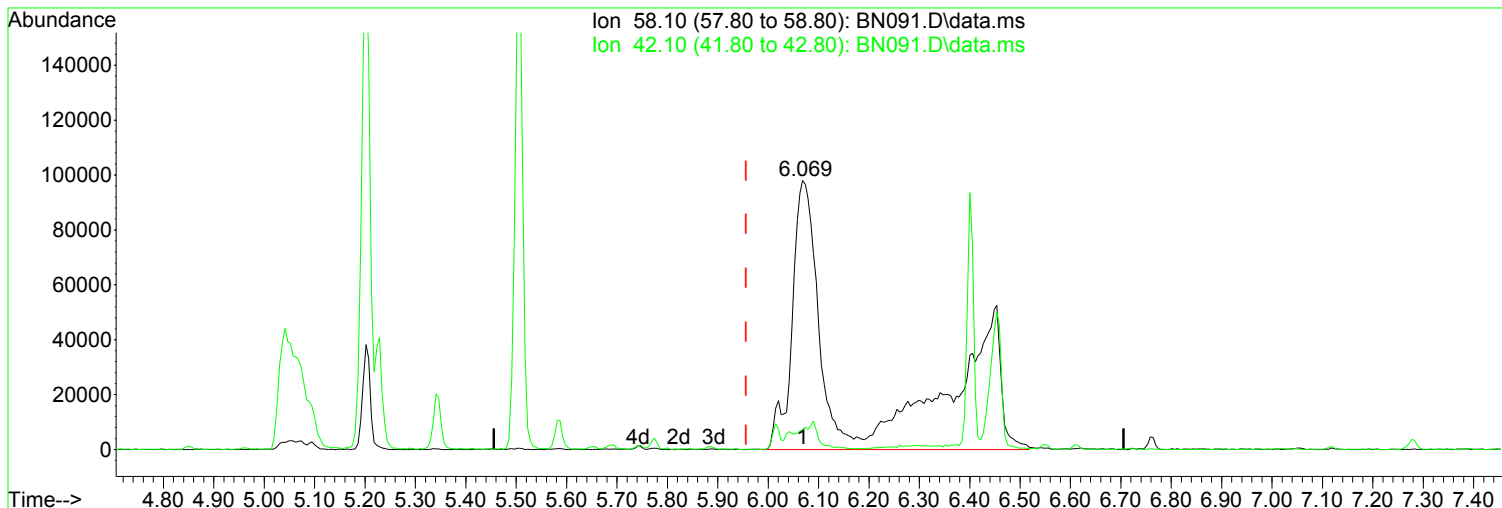
Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	43.63
319.10	16.50	17.89
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN091.D  
Acq On : 23 Jan 2018 4:20 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.069min (+ 0.112) 124.20 ppm m

After

response 714636

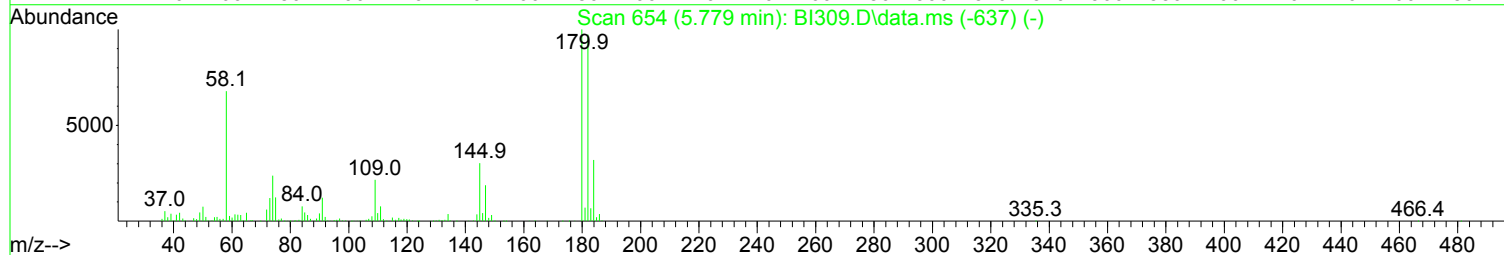
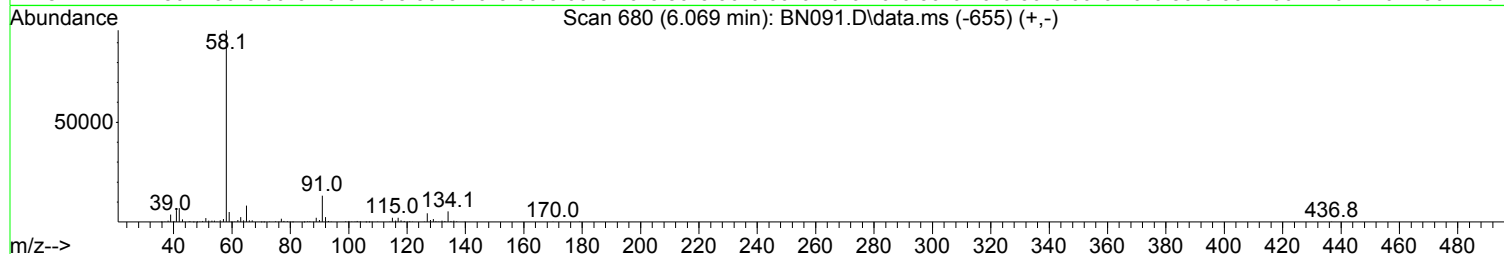
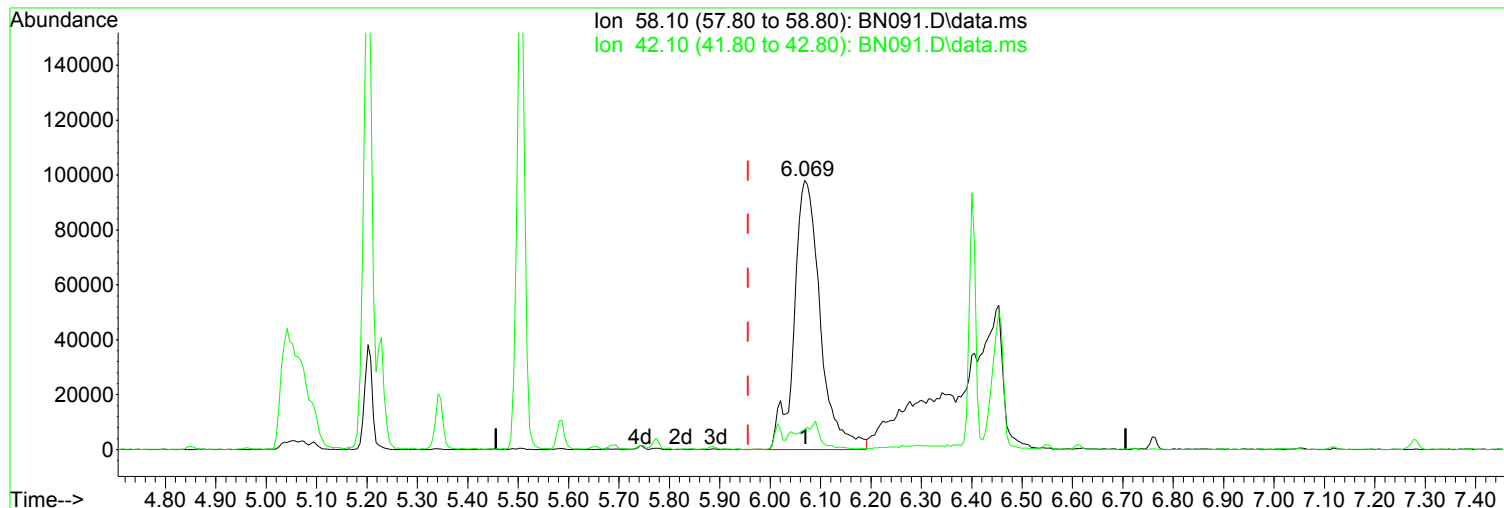
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	7.28
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN091.D  
Acq On : 23 Jan 2018 4:20 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.069min (+ 0.112) 61.61 ppm

Before

response 354528

Ion	Exp%	Act%	
58.10	100.00	100.00	01/24/18
42.10	20.50	7.06	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN091.D  
 Acq On : 23 Jan 2018 4:20 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	92213	40.00	ppm	0.00	
33) d8-Naphthalene	6.015	136	370479	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	177297	40.00	ppm	0.00	
91) d10-Phenanthrene	9.192	188	332946	40.00	ppm	0.00	
117) d12-Chrysene	12.514	240	322136	40.00	ppm	0.00	
135) d12-Perylene	15.477	264	310907	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.790	112	364724	130.51	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	65.25%	
12) SURR2,PHENOL-D6	4.512	99	433160	126.31	ppm	0.01	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	63.16%	
34) SURR4,NITROBENZENE-D5	5.346	82	345418	116.12	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	116.12%	
63) SURR5,2-FLUOROBIPHENYL	7.058	172	759835	114.43	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	114.43%	
88) SURR3,2,4,6-TRIBROMOPH...	8.502	330	126907	132.61	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	66.31%	
124) SURR6,TERPHENYL-D14	10.898	244	835195	124.42	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	124.42%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.870	79	361815	132.079	ppm		93
3) N-Nitrosodimethylamine	2.838	74	181167	126.021	ppm		85
4) 2-Picoline	3.383	93	368118	127.138	ppm		98
5) N-Nitrosomethylamine	3.453	42	162205	116.260	ppm		86
6) Methyl Methansulfonate	3.672	80	163707	111.593	ppm		96
8) N-Nitrosodiethylamine	3.972	102	190393	128.544	ppm		89
9) Ethyl Mathanesulfonate	4.196	79	257171	126.407	ppm		98
10) Benzaldehyde	4.485	106	220141	131.162	ppm		96
11) Aniline	4.571	93	625865	126.362	ppm		99
13) Phenol	4.523	94	428987	127.605	ppm		93
14) bis(2-Clethyl)Ether	4.614	93	313064	125.258	ppm		97
15) Pentachloroethane	4.614	117	131380	121.849	ppm		98
16) 2-Chlorophenol	4.673	128	367968	127.487	ppm		96
17) 1,3-Diclbzene	4.801	146	389179	119.185	ppm		99
18) 1,4-Dichlorobenzene	4.865	146	392171	116.964	ppm		97
19) 1,2-Diclbzene	4.999	146	376508	120.197	ppm		99
20) Benzyl Alcohol	4.961	79	279694	124.836	ppm		97
21) 1-Methyl-2-pyrrolidinone	5.042	99	213486	119.879	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.074	45	323628	126.104	ppm		89
23) 2-Methylphenol	5.058	108	321984	127.553	ppm		95
24) 3+4-Methylphenol	5.202	108	338544	124.074	ppm		94
25) Acetophenone	5.202	105	486707	121.317	ppm		85
26) N-Nitroso-Di-n-propyla...	5.202	70	244315	120.312	ppm		94
27) N-Nitrosopyrrolidine	5.202	100	184637	123.841	ppm		85
28) N-Nitrosomorpholine	5.229	56	182971	113.962	ppm		88
29) o-Toluidine	5.234	106	542280	119.354	ppm		92
30) Hexachloroethane	5.304	117	161067	119.573	ppm		93
31) o,o,o-Triethylphosphor...	5.748	198	161204	121.183	ppm		92
32) Alpha-terpinol	6.042	121	127969	122.332	ppm		94
35) Nitrobenzene	5.362	77	356571	120.700	ppm		99
36) N-Nitrosopiperidine	5.507	42	197179	109.279	ppm		88
37) Isophorone	5.587	82	647228	120.149	ppm		99
38) 2-Nitrophenol	5.651	139	177386	113.809	ppm		96

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN091.D  
 Acq On : 23 Jan 2018 4:20 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.796	105	242832	106.152	ppm	99
40) 2,4-Dimethylphenol	5.689	107	354255	117.540	ppm	95
41) bis(-2-Chloroethoxy)Me...	5.774	93	389426	118.701	ppm	100
42) 2,4-Dichlorophenol	5.887	162	285997	116.512	ppm	97
43) a,a-Dimethylphenethyla...	6.069	58	714636m	124.196	ppm	
44) 1,2,4-Trichlorobenzene	5.956	180	321797	115.212	ppm	98
45) Naphthalene	6.036	128	1038161	111.217	ppm	99
46) 4-Chloroaniline	6.090	127	512064	115.416	ppm	98
47) 2,6-Dichlorophenol	6.095	162	308000	113.802	ppm	96
48) Hexachlorobutadiene	6.149	225	184289	111.219	ppm	99
49) Hexachloropropene	6.117	213	225458	116.338	ppm	100
50) 4-Chloro-3-methylphenol	6.550	107	286775	115.916	ppm	99
51) N-N-di-n-butylamine	6.400	84	221876	104.701	ppm	96
52) Caprolactam	6.454	113	106145	117.466	ppm	97
53) p-Phenylenediamine	6.448	80	13482	110.141	ppm	77
54) Safrole	6.614	162	307363	114.947	ppm	98
55) 2-Methylnaphthalene	6.700	142	681254	110.766	ppm	99
56) 1-Methylnaphthalene	6.796	142	635484	109.980	ppm	99
58) Hexachlorocyclopentadiene	6.849	237	199422	129.838	ppm	96
59) 1,2,4,5-Tetrachloroben...	6.860	216	328664	114.489	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.138	216	316357	114.942	ppm	98
61) 2,4,6-Trichlorophenol	6.972	196	200832	121.714	ppm	100
62) 2,4,5-Trichlorophenol	7.015	196	202977	121.344	ppm	95
64) Isosafrole	7.117	104	129088	115.846	ppm	99
65) 1,1'-Biphenyl	7.154	154	839649	115.426	ppm	99
66) 2-Chloronaphthalene	7.181	162	640878	118.297	ppm	98
67) 2-Nitroaniline	7.277	65	160208	114.388	ppm	97
68) 1,4-Naphthoquinone	7.352	158	206141	121.536	ppm	98
69) m-Dinitrobenzene	7.491	168	100730	118.614	ppm	77
70) Acenaphthylene	7.582	152	1015017	118.784	ppm	100
71) Dimethyl phthalate	7.459	163	728428	118.420	ppm	99
72) 2,6-Dinitrotoluene	7.518	165	158663	129.968	ppm	84
73) Acenaphthene	7.753	153	674203	112.185	ppm	98
74) 3-Nitroaniline	7.689	138	188269	120.702	ppm	89
75) 2,4-Dinitrophenol	7.791	184	64547	130.947	ppm	79
76) Dibenzofuran	7.924	168	871442	111.836	ppm	100
77) 2,4-Dinitrotoluene	7.914	165	209585	118.393	ppm	98
78) 4-Nitrophenol	7.855	65	119598	108.361	ppm	89
79) Pentachlorobenzene	7.882	250	275947	112.663	ppm	100
80) 1-Naphthylamine	8.005	143	435108	119.294	ppm	99
81) 2-Naphthylamine	8.085	143	592106	117.807	ppm	96
82) 2,3,4,6-Tetrachlorophenol	8.047	232	157916	127.236	ppm	96
83) Fluorene	8.261	166	697911	111.777	ppm	99
84) 4-Chlorophenyl-phenyle...	8.256	204	308239	112.604	ppm	94
85) Diethylphthalate	8.149	149	777657	124.330	ppm	100
86) 4-Nitroaniline	8.299	138	204422	114.668	ppm	91
87) 5-Nitro-o-toluidine	8.283	152	208097	114.897	ppm	93
89) Sulfotepp	8.529	322	123568	138.443	ppm	89
90) Octachlorocyclopentene	8.513	307	121806	130.724	ppm	98
92) Thionazin	8.229	107	122157	122.856	ppm	95
93) 4,6-Dinitro-2-methylph...	8.315	198	109852	126.738	ppm	98
94) Diphenylamine	8.379	169	1098036	223.874	ppm	99
95) 1,2 Diphenylhydrazine	8.417	77	676076	107.410	ppm	97
96) N-Nitrosodiphenylamine	8.379	169	1098036	223.870	ppm	99
97) 1,3,5-Trinitrobenzene	8.657	213	57889	118.306	ppm	# 99
98) Diallate	8.657	86	249583	118.782	ppm	88

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN091.D  
 Acq On : 23 Jan 2018 4:20 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

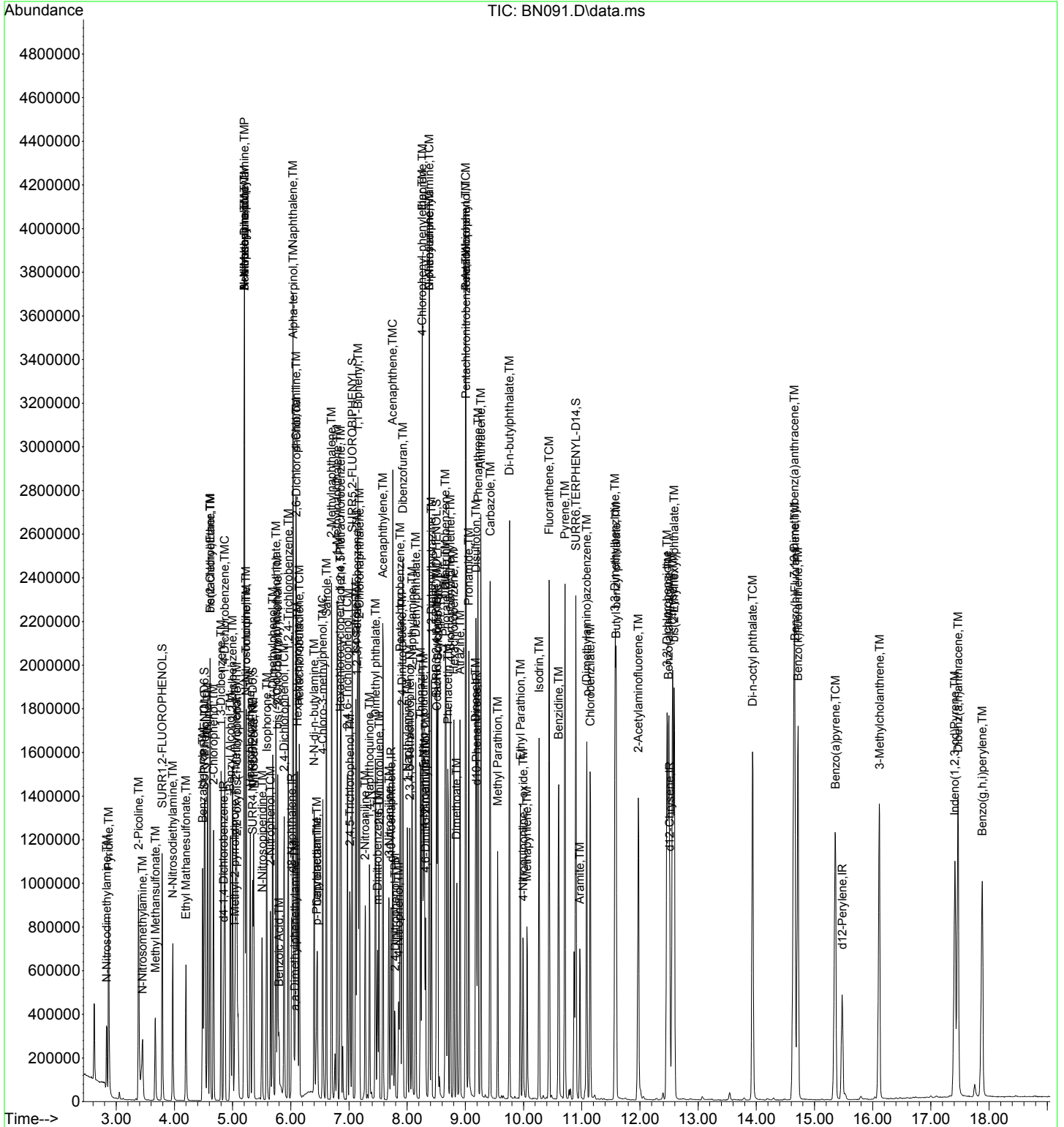
Quant Time: Jan 24 08:48:46 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.668	121	128058	121.763	ppm	92
100) Phenacetin	8.700	108	373453	118.421	ppm	99
101) 4-Bromophenyl-phenylether	8.743	248	185499	110.271	ppm	96
102) Hexachlorobenzene	8.802	284	234977	112.461	ppm	97
103) Dimethoate	8.850	87	219824	122.425	ppm	96
104) Atrazine	8.909	215	108313	114.203	ppm	92
105) Pentachlorophenol	9.005	266	156252	117.034	ppm	99
106) 4-Aminobiphenyl	9.005	169	754395	117.010	ppm	99
107) Pentachloronitrobenzene	9.010	237	90487	116.336	ppm	90
108) Pronamide	9.058	173	333338	117.970	ppm	99
109) Dinoseb	9.176	211	149836	140.616	ppm	98
110) Disulfoton	9.181	88	245232	121.456	ppm	90
111) Phenanthrene	9.219	178	1009173	114.852	ppm	99
112) Anthracene	9.267	178	1026332	118.815	ppm	99
113) Carbazole	9.427	167	1035230	115.324	ppm	98
114) Di-n-butylphthalate	9.759	149	1347083	123.273	ppm	99
115) 4-Nitroquinonline-1-oxide	9.994	190	88245	127.677	ppm	92
116) Fluoranthene	10.438	202	1109183	118.165	ppm	98
118) Methyl Parathion	9.556	109	180580	146.574	ppm	96
119) Ethyl Parathion	9.946	97	132947	126.205	ppm	100
120) Methapyrilene	10.059	58	218597	104.399	ppm	95
121) Isodrin	10.267	193	116227	134.442	ppm	90
122) Benzidine	10.604	184	728932	129.048	ppm	98
123) Pyrene	10.711	202	1127802	122.698	ppm	99
125) Aramite	10.968	185	137237m	139.654	ppm	
126) p-(Dimethylamino)azobe...	11.086	120	342637	130.488	ppm	93
127) Chlorobenzilate	11.144	139	334482	125.409	ppm	99
128) Butyl benzyl phthalate	11.594	149	621218	131.528	ppm	92
129) 3,3-Dimethylbenzidine	11.572	212	835273	134.334	ppm	100
130) 2-Acetylaminofluorene	11.973	181	461012	130.690	ppm	97
131) 3,3'-Dichlorobenzidine	12.465	252	531517	134.048	ppm	98
132) Benzo(a)anthracene	12.492	228	1091220	121.219	ppm	98
133) Chrysene	12.562	228	1020490	119.273	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.588	149	879141	134.270	ppm	99
136) Di-n-octyl phthalate	13.936	149	1463897	125.486	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.653	256	534103	130.729	ppm	98
138) Benzo(b)Fluoranthene	14.664	252	1162048	129.909	ppm	98
139) Benzo(k)fluoranthene	14.717	252	1083030	125.284	ppm	99
140) Benzo(a)pyrene	15.359	252	987711	132.397	ppm	99
141) 3-Methylcholanthrene	16.119	268	565004	134.696	ppm	95
142) Indeno(1,2,3-cd)Pyrene	17.413	276	822680	125.122	ppm	98
143) Dibenz(a,h)anthracene	17.466	278	947145	126.411	ppm	99
144) Benzo(g,h,i)perylene	17.884	276	779525	114.764	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

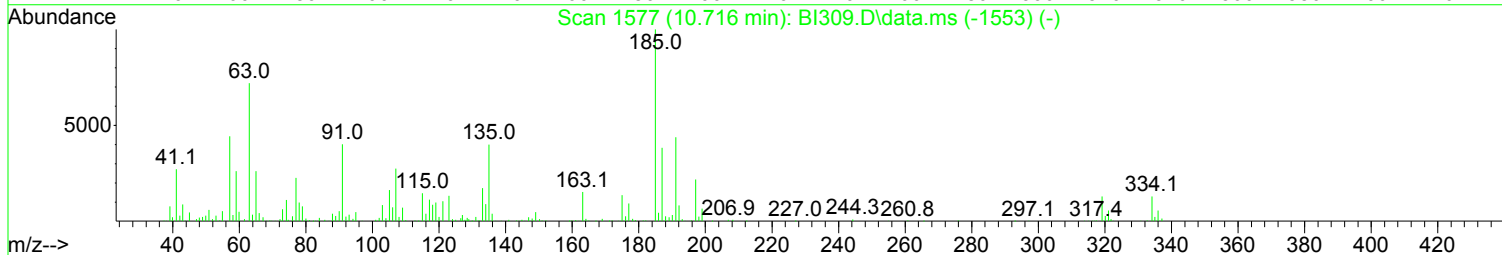
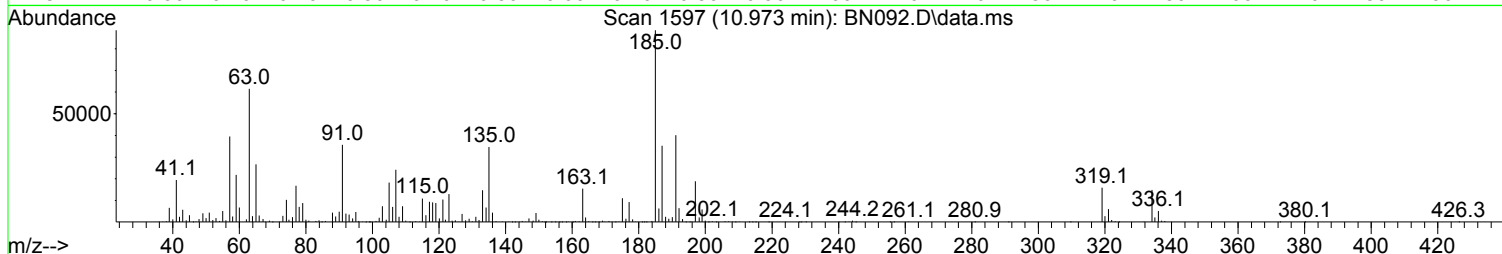
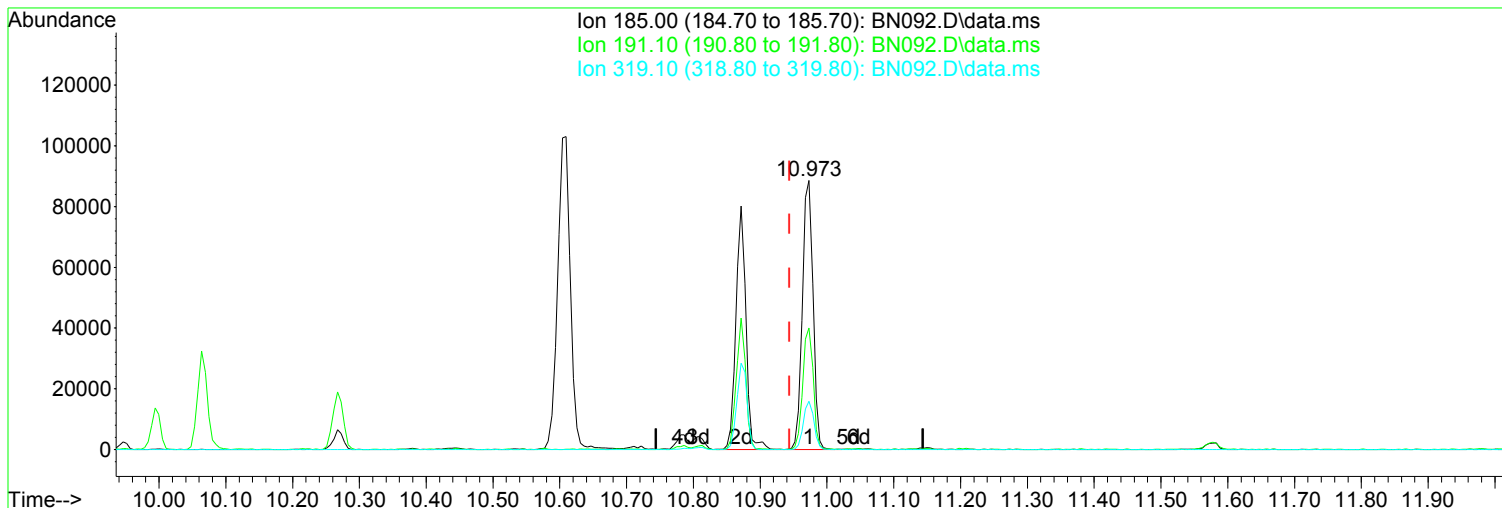
Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN091.D  
Acq On : 23 Jan 2018 4:20 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 08:48:46 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN092.D  
Acq On : 23 Jan 2018 4:49 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.973min (+ 0.029) 185.95 ppm m

After

response 181206

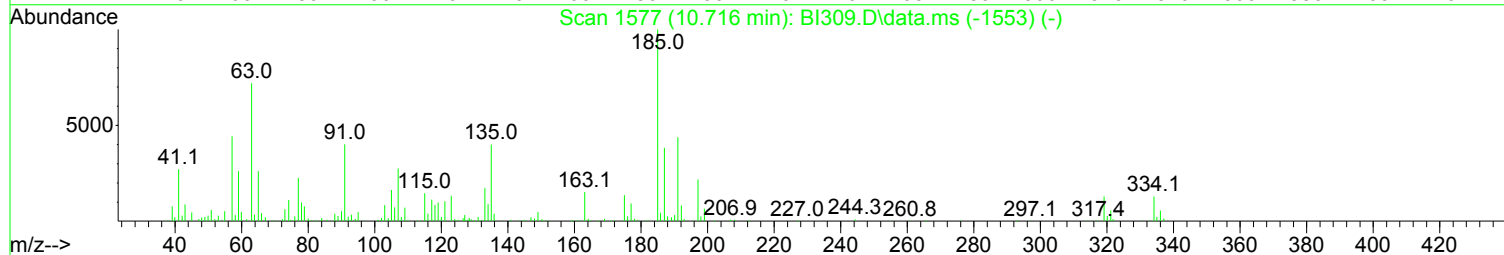
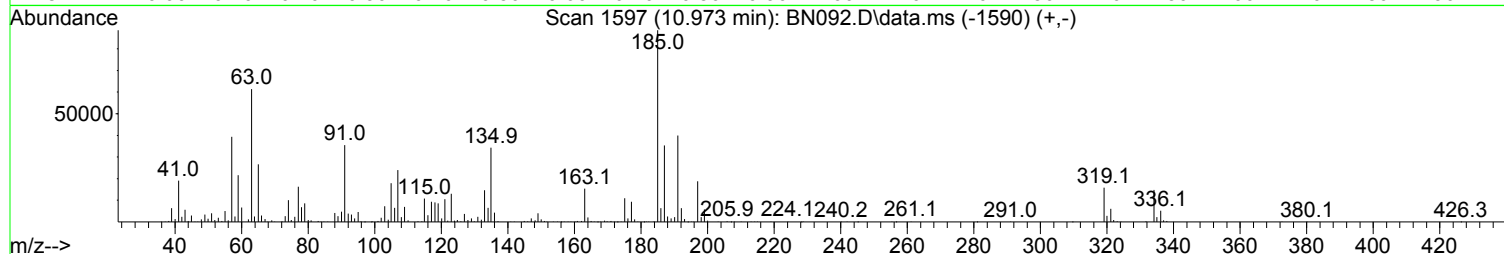
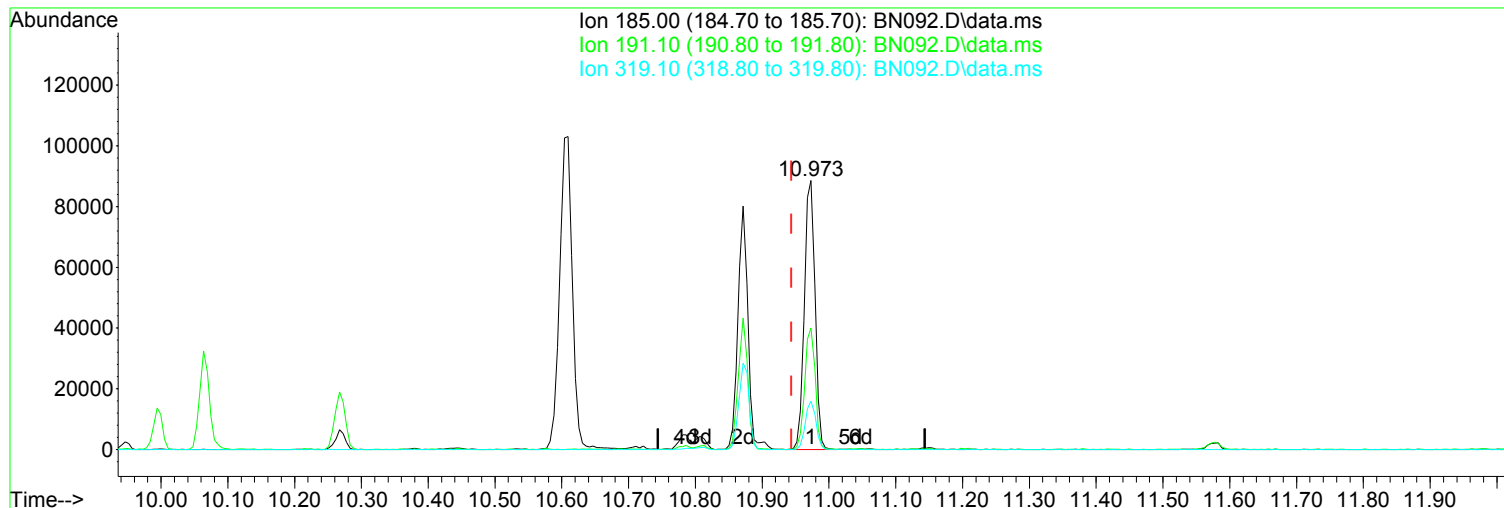
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.30	45.23
319.10	16.50	17.95
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN092.D  
 Acq On : 23 Jan 2018 4:49 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration



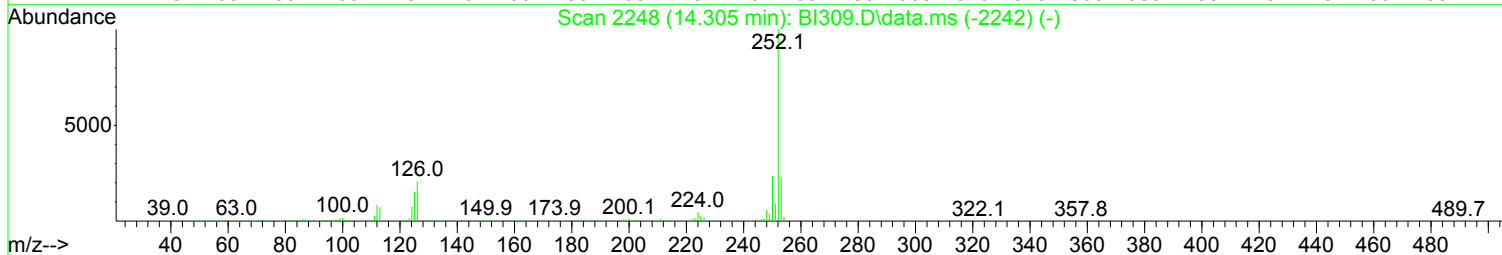
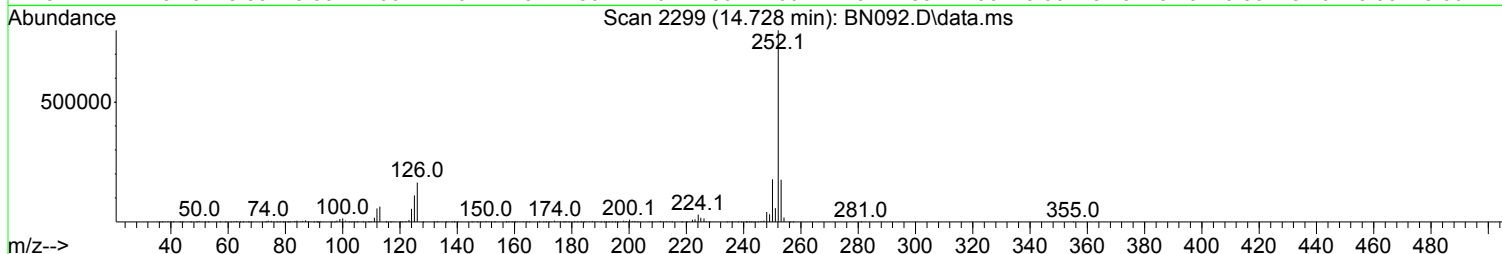
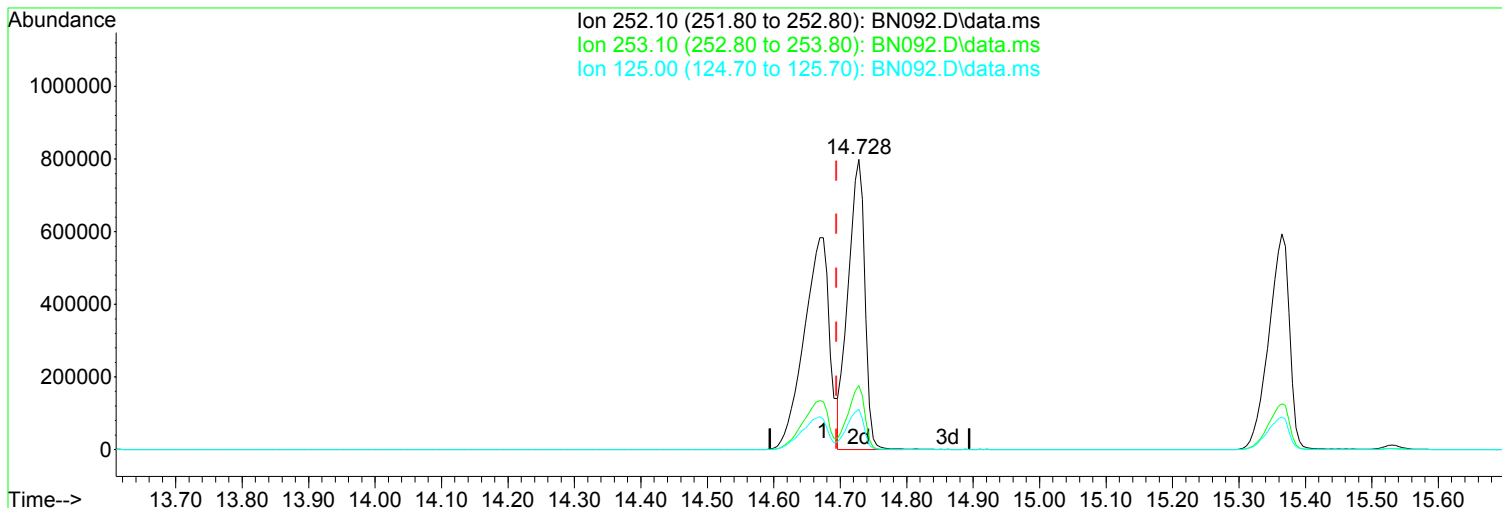
TIC: BN092.D\data.ms

(125) Aramite (TM)			Manual Integration:
10.973min (+ 0.029)	100.43 ppm		Before
response	97863		
Ion	Exp%	Act%	01/24/18
185.00	100.00	100.00	
191.10	44.30	45.16	
319.10	16.50	17.95	
0.00	0.00	0.00	



Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN092.D  
Acq On : 23 Jan 2018 4:49 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(139) Benzo(k)fluoranthene (TM)

Manual Integration:

14.728min (+ 0.034) 167.15 ppm m

After

response 1395703

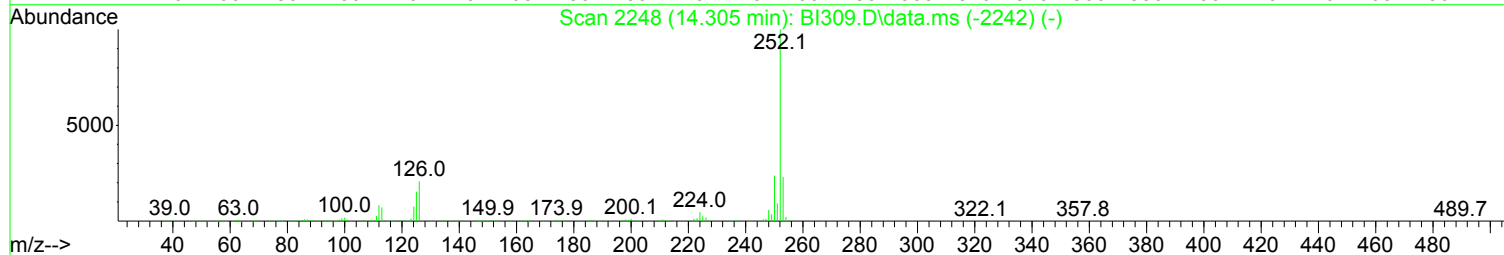
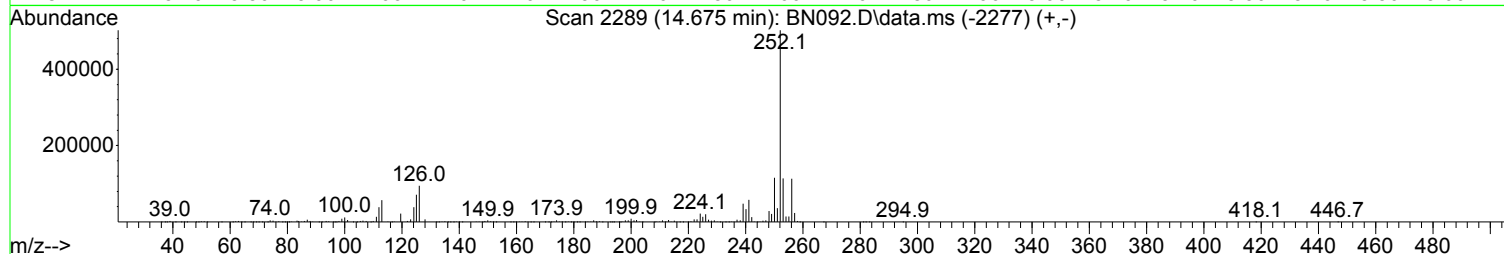
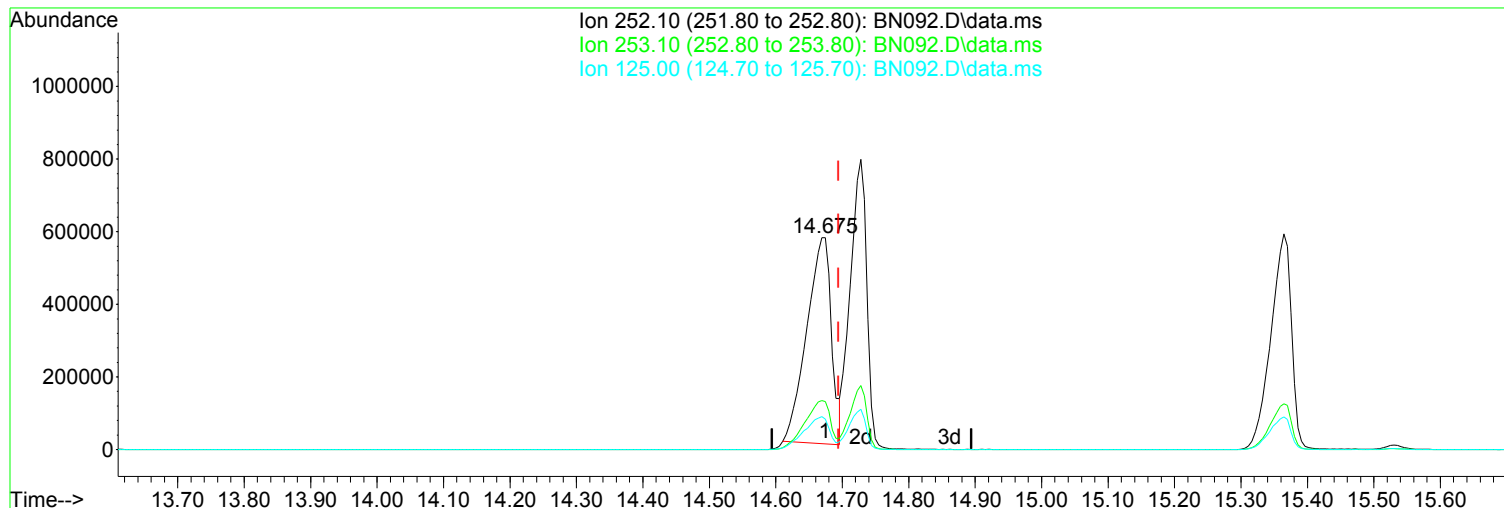
Wrong peak selected.

Ion	Exp%	Act%
252.10	100.00	100.00
253.10	21.30	22.04
125.00	14.00	13.87
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN092.D  
Acq On : 23 Jan 2018 4:49 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN092.D\data.ms

(139) Benzo(k)fluoranthene (TM)

Manual Integration:

14.675min (-0.020) 174.89 ppm

Before

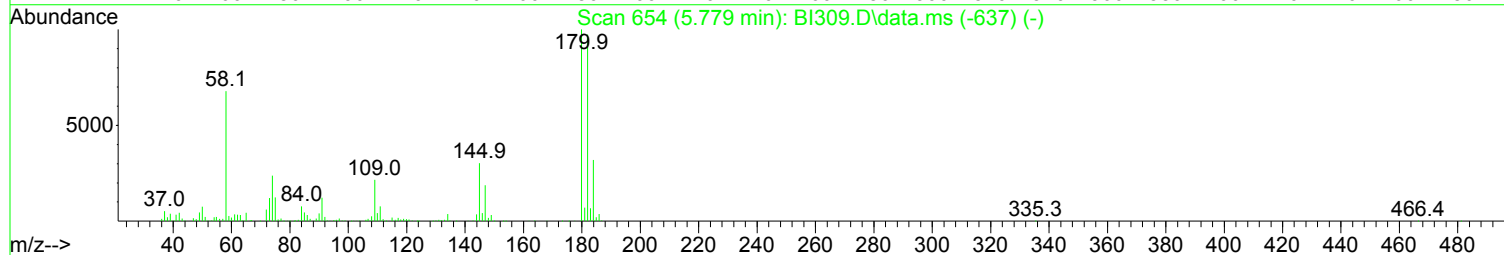
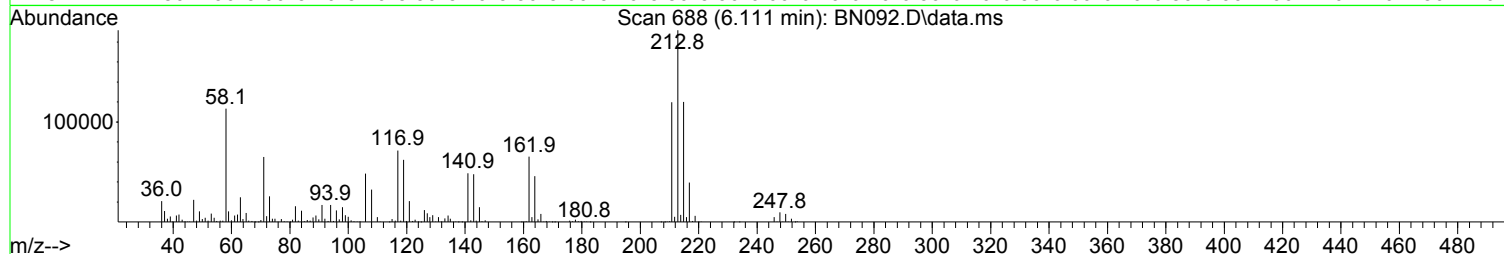
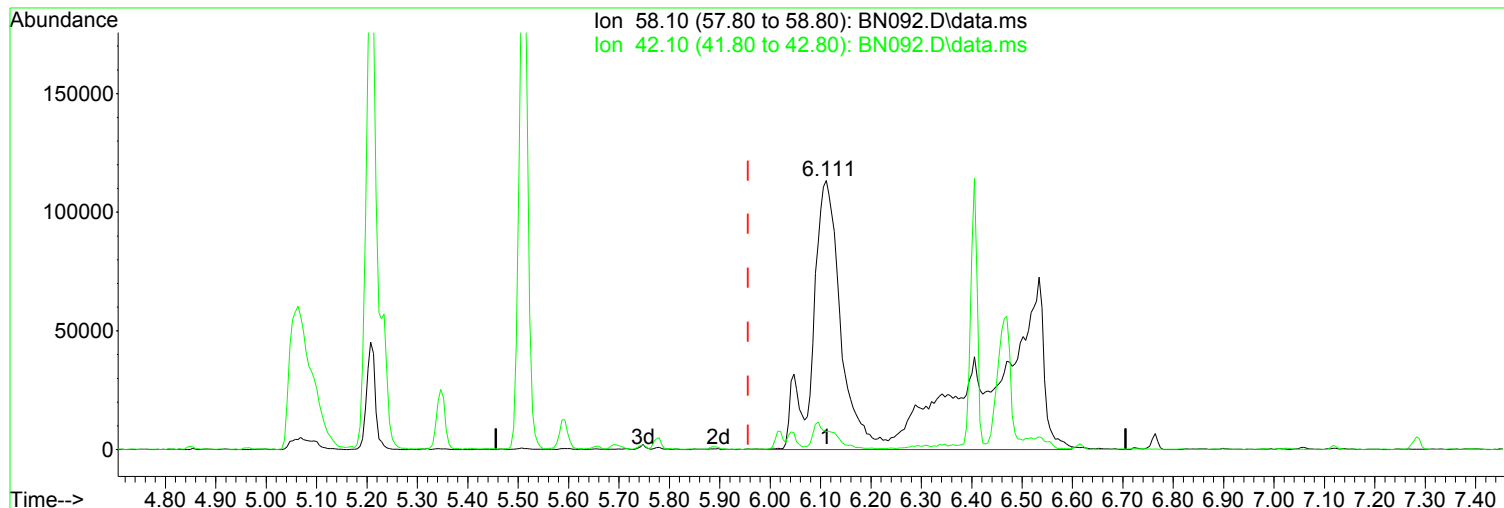
response 1460294

Ion	Exp%	Act%
252.10	100.00	100.00
253.10	21.30	22.71
125.00	14.00	14.17
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN092.D  
Acq On : 23 Jan 2018 4:49 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.111min (+ 0.155) 167.62 ppm m

After

response 969914

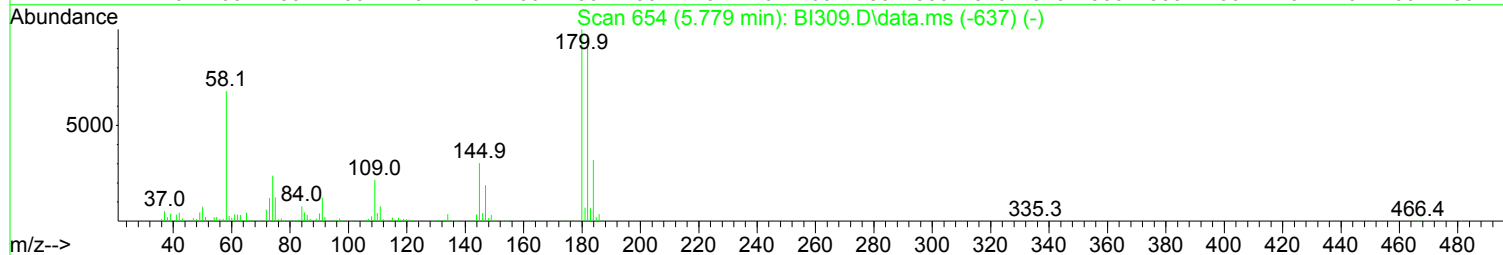
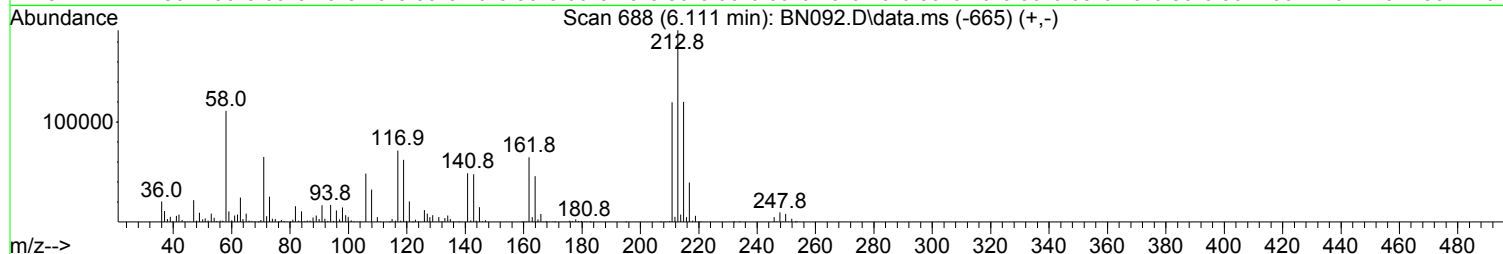
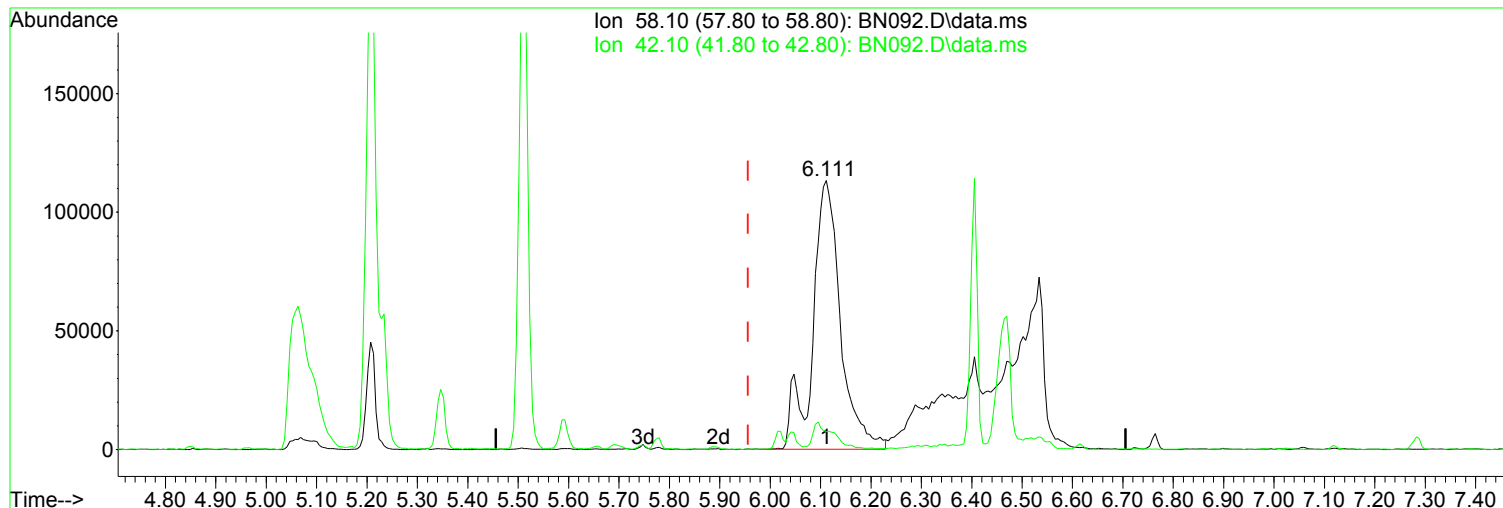
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	6.68
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN092.D  
Acq On : 23 Jan 2018 4:49 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration



TIC: BN092.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.111min (+ 0.155) 75.54 ppm

Before

response 437111

Ion	Exp%	Act%
58.10	100.00	100.00
42.10	20.50	6.55
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN092.D  
 Acq On : 23 Jan 2018 4:49 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.849	152	95164	40.00	ppm	0.00	
33) d8-Naphthalene	6.020	136	372555	40.00	ppm	0.00	
57) d10-Acenaphthene	7.721	164	179465	40.00	ppm	0.00	
91) d10-Phenanthrene	9.192	188	344237	40.00	ppm	0.00	
117) d12-Chrysene	12.519	240	319437	40.00	ppm	0.01	
135) d12-Perylene	15.477	264	300311	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.790	112	499998	173.36	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	86.68%	
12) SURR2,PHENOL-D6	4.517	99	593431	167.68	ppm	0.02	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	83.84%	
34) SURR4,NITROBENZENE-D5	5.346	82	475392	158.93	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	158.93%#	
63) SURR5,2-FLUOROBIPHENYL	7.058	172	1014898	151.00	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	151.00%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.508	330	179496	185.30	ppm	0.01	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	92.65%	
124) SURR6,TERPHENYL-D14	10.904	244	1129050	169.62	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	169.62%#	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.870	79	493763	174.657	ppm		96
3) N-Nitrosodimethylamine	2.838	74	247994	165.148	ppm		85
4) 2-Picoline	3.384	93	502988	168.331	ppm		98
5) N-Nitrosomethylamine	3.453	42	218055	151.444	ppm		86
6) Methyl Methansulfonate	3.672	80	223006	147.301	ppm		96
8) N-Nitrosodiethylamine	3.977	102	258046	168.817	ppm		88
9) Ethyl Mathanesulfonate	4.202	79	349225	166.331	ppm		98
11) Aniline	4.571	93	855028	167.277	ppm		98
13) Phenol	4.528	94	575918	165.998	ppm		94
14) bis(2-Clethyl)Ether	4.614	93	416891	161.628	ppm		99
15) Pentachloroethane	4.614	117	180365	162.093	ppm		99
16) 2-Chlorophenol	4.673	128	502886	168.829	ppm		99
17) 1,3-Diclbzene	4.806	146	536255	159.134	ppm		99
18) 1,4-Dichlorobenzene	4.865	146	547050	158.097	ppm		99
19) 1,2-Diclbzene	4.999	146	515012	159.315	ppm		100
20) Benzyl Alcohol	4.967	79	381995	165.209	ppm		96
21) 1-Methyl-2-pyrrolidinone	5.058	99	277151	150.803	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.074	45	438228	165.464	ppm	#	83
23) 2-Methylphenol	5.063	108	437430	167.913	ppm		98
24) 3+4-Methylphenol	5.213	108	505922	179.668	ppm		94
25) Acetophenone	5.207	105	661817	159.850	ppm		90
26) N-Nitroso-Di-n-propyla...	5.207	70	331445	158.157	ppm		92
27) N-Nitrosopyrrolidine	5.213	100	252002	163.784	ppm		92
28) N-Nitrosomorpholine	5.234	56	247049	149.101	ppm		89
29) o-Toluidine	5.239	106	748278	159.587	ppm		68
30) Hexachloroethane	5.304	117	215481	155.008	ppm		91
31) o,o,o-Triethylphosphor...	5.748	198	219447	159.851	ppm		98
32) Alpha-terpinol	6.042	121	170708	158.128	ppm		92
35) Nitrobenzene	5.368	77	490964	165.266	ppm		95
36) N-Nitrosopiperidine	5.512	42	268210	147.818	ppm		88
37) Isophorone	5.593	82	875751	161.665	ppm		98
38) 2-Nitrophenol	5.657	139	254448	150.281	ppm		91
39) Benzoic Acid	5.806	105	281453	122.350	ppm		97

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN092.D  
 Acq On : 23 Jan 2018 4:49 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 08:48:55 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 2,4-Dimethylphenol	5.694	107	479626	158.251	ppm	98
41) bis(-2-Chloroethoxy)Me...	5.774	93	537889	163.040	ppm	99
42) 2,4-Dichlorophenol	5.892	162	387919	157.153	ppm	99
43) a,a-Dimethylphenethyla...	6.111	58	969914m	167.622	ppm	
44) 1,2,4-Trichlorobenzene	5.962	180	440179	156.718	ppm	98
45) Naphthalene	6.042	128	1382629	147.293	ppm	99
46) 4-Chloroaniline	6.095	127	691015	154.883	ppm	98
47) 2,6-Dichlorophenol	6.101	162	415615	152.709	ppm	99
48) Hexachlorobutadiene	6.149	225	250244	150.182	ppm	100
49) Hexachloropropene	6.117	213	314557	161.409	ppm	99
50) 4-Chloro-3-methylphenol	6.555	107	385622	155.001	ppm	96
51) N-N-di-n-butylamine	6.406	84	299932	140.746	ppm	95
52) Caprolactam	6.470	113	147838	162.695	ppm	87
53) p-Phenylenediamine	6.454	80	15531	126.173	ppm	80
54) Safrole	6.614	162	411312	152.964	ppm	98
55) 2-Methylnaphthalene	6.705	142	923235	149.274	ppm	97
56) 1-Methylnaphthalene	6.801	142	867642	149.321	ppm	99
58) Hexachlorocyclopentadiene	6.849	237	278277	178.989	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.865	216	447455	153.987	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.144	216	429967	154.333	ppm	99
61) 2,4,6-Trichlorophenol	6.978	196	272350	163.064	ppm	95
62) 2,4,5-Trichlorophenol	7.015	196	280384	165.595	ppm	98
64) Isosafrole	7.122	104	171837	152.346	ppm	92
65) 1,1'-Biphenyl	7.160	154	1105388	150.121	ppm	100
66) 2-Chloronaphthalene	7.181	162	865629	157.852	ppm	99
67) 2-Nitroaniline	7.283	65	225620	152.453	ppm	94
68) 1,4-Naphthoquinone	7.358	158	276332	160.951	ppm	95
69) m-Dinitrobenzene	7.497	168	145599	152.767	ppm	84
70) Acenaphthylene	7.588	152	1370974	158.503	ppm	100
71) Dimethyl phthalate	7.459	163	1022069	164.149	ppm	99
72) 2,6-Dinitrotoluene	7.523	165	220822	178.701	ppm	85
73) Acenaphthene	7.759	153	910430	149.662	ppm	100
74) 3-Nitroaniline	7.689	138	261541	154.604	ppm	97
75) 2,4-Dinitrophenol	7.796	184	96463	166.748	ppm	80
76) Dibenzofuran	7.925	168	1161817	147.300	ppm	100
77) 2,4-Dinitrotoluene	7.919	165	297499	151.941	ppm	98
78) 4-Nitrophenol	7.860	65	152040	129.926	ppm	92
79) Pentachlorobenzene	7.882	250	367451	148.209	ppm	99
80) 1-Naphthylamine	8.010	143	596101	161.459	ppm	96
81) 2-Naphthylamine	8.090	143	802487	157.737	ppm	95
82) 2,3,4,6-Tetrachlorophenol	8.048	232	223712	178.071	ppm	97
83) Fluorene	8.267	166	961978	152.209	ppm	100
84) 4-Chlorophenyl-phenyle...	8.261	204	422172	152.362	ppm	98
85) Diethylphthalate	8.149	149	1056773	166.913	ppm	98
86) 4-Nitroaniline	8.304	138	277458	149.035	ppm	91
87) 5-Nitro-o-toluidine	8.288	152	288349	147.257	ppm	95
89) Sulfotep	8.534	322	170828	189.080	ppm	81
90) Octachlorocyclopentene	8.513	307	166122	176.131	ppm	99
92) Thionazin	8.235	107	168832	164.229	ppm	97
93) 4,6-Dinitro-2-methylph...	8.326	198	160468	161.457	ppm	86
94) Diphenylamine	8.384	169	1496700	295.147	ppm	100
95) 1,2 Diphenylhydrazine	8.417	77	928530	142.679	ppm	98
96) N-Nitrosodiphenylamine	8.384	169	1496700	295.142	ppm	100
97) 1,3,5-Trinirobenzene	8.663	213	83442	150.019	ppm	# 86
98) Diallate	8.657	86	344099	158.393	ppm	86
99) Phorate	8.673	121	180718	166.199	ppm	93

Data Path : I:\ACQUDATA\5973D\Data\012318\  
 Data File : BN092.D  
 Acq On : 23 Jan 2018 4:49 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

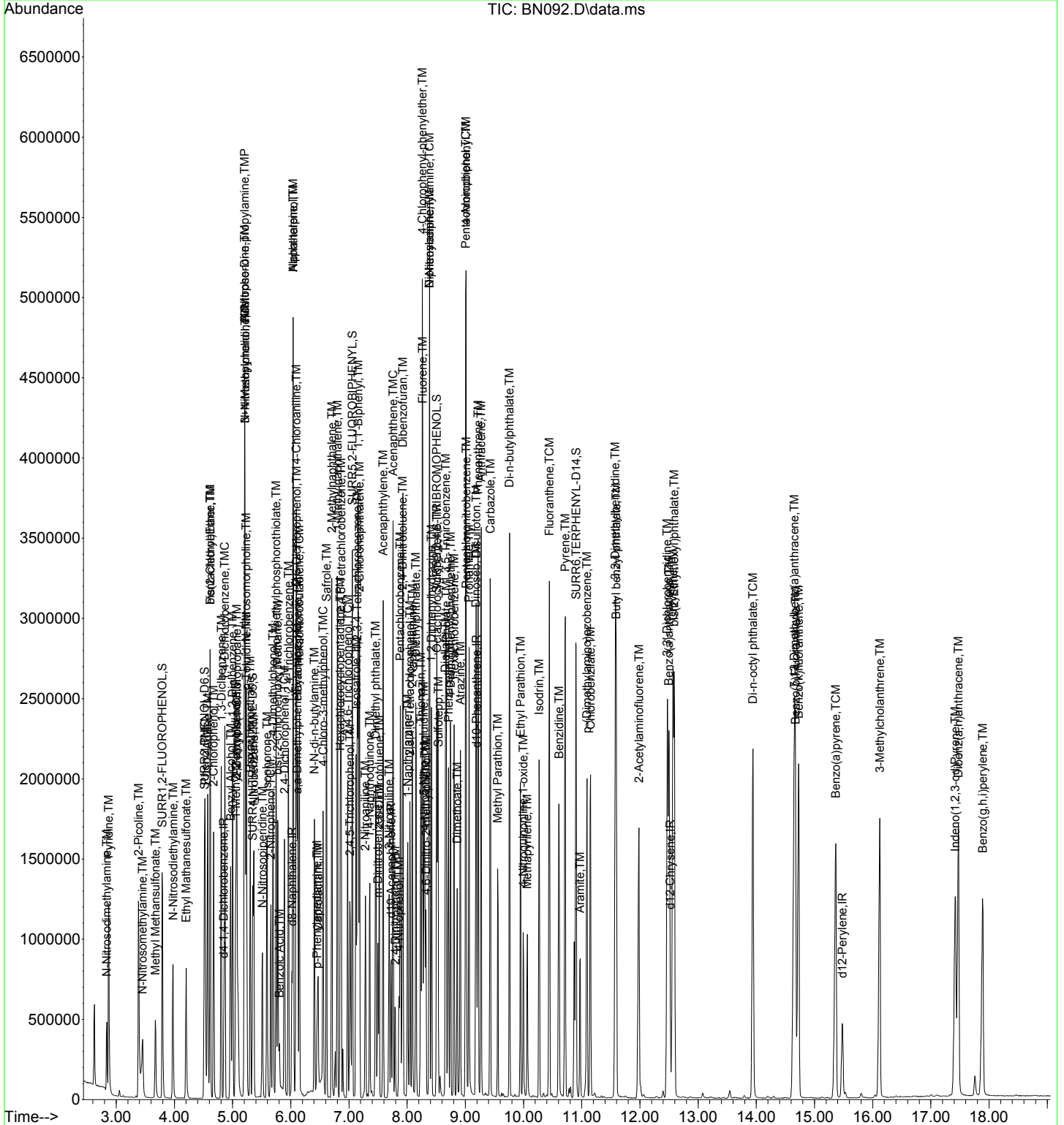
Quant Time: Jan 24 08:48:55 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Mon Jan 08 15:01:48 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.711	108	507449	155.633	ppm	99
101) 4-Bromophenyl-phenylether	8.748	248	261987	150.632	ppm	92
102) Hexachlorobenzene	8.807	284	329537	152.544	ppm	93
103) Dimethoate	8.861	87	271164	146.064	ppm	98
104) Atrazine	8.914	215	138428	141.168	ppm	93
105) Pentachlorophenol	9.005	266	224522	162.652	ppm	99
106) 4-Aminobiphenyl	9.010	169	982696	147.421	ppm	100
107) Pentachloronitrobenzene	9.016	237	125480	156.034	ppm	89
108) Pronamide	9.064	173	454456	155.559	ppm	98
109) Dinoseb	9.181	211	214984	195.137	ppm	98
110) Disulfoton	9.187	88	330776	158.450	ppm	94
111) Phenanthrene	9.219	178	1352971	148.928	ppm	99
112) Anthracene	9.272	178	1387398	155.346	ppm	99
113) Carbazole	9.427	167	1368968	147.501	ppm	99
114) Di-n-butylphthalate	9.759	149	1770377	156.695	ppm	98
115) 4-Nitroquinoline-1-oxide	9.994	190	117441	164.346	ppm	100
116) Fluoranthene	10.444	202	1460979	150.538	ppm	98
118) Methyl Parathion	9.556	109	241014	197.281	ppm	96
119) Ethyl Parathion	9.946	97	184223	168.253	ppm	97
120) Methapyrilene	10.064	58	282178	135.903	ppm	92
121) Isodrin	10.267	193	157865	184.149	ppm	91
122) Benzidine	10.610	184	974484	173.977	ppm	100
123) Pyrene	10.717	202	1516349	166.364	ppm	99
125) Aramite	10.973	185	181206m	185.955	ppm	
126) p-(Dimethylamino)azobe...	11.091	120	449154	172.498	ppm	89
127) Chlorobenzilate	11.150	139	458419	173.329	ppm	92
128) Butyl benzyl phthalate	11.594	149	828160	176.824	ppm	93
129) 3,3-Dimethylbenzidine	11.578	212	1107142	179.562	ppm	99
130) 2-Acetylaminofluorene	11.984	181	619876	177.210	ppm	97
131) 3,3'-Dichlorobenzidine	12.471	252	710745	180.764	ppm	100
132) Benzo(a)anthracene	12.498	228	1472467	164.953	ppm	98
133) Chrysene	12.567	228	1355870	159.811	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.589	149	1188453	183.045	ppm	100
136) Di-n-octyl phthalate	13.942	149	1995786	168.981	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.653	256	713430	180.783	ppm	97
138) Benzo(b)Fluoranthene	14.675	252	1565876	181.230	ppm	97
139) Benzo(k)fluoranthene	14.728	252	1395703m	167.150	ppm	
140) Benzo(a)pyrene	15.364	252	1284714	178.284	ppm	100
141) 3-Methylcholanthrene	16.124	268	742655	183.295	ppm	97
142) Indeno(1,2,3-cd)Pyrene	17.418	276	1092084	171.957	ppm	99
143) Dibenz(a,h)anthracene	17.472	278	1228314	169.722	ppm	99
144) Benzo(g,h,i)perylene	17.889	276	972993	148.301	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 23 Jan 2018 4:49 pm  
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Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

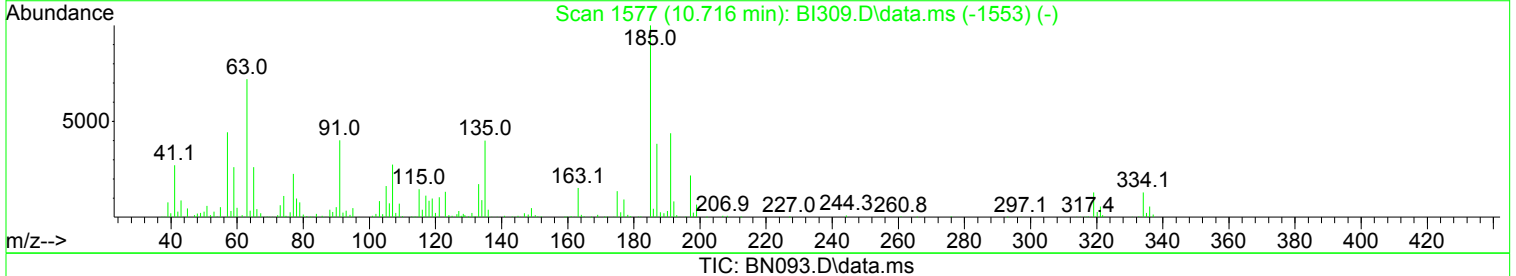
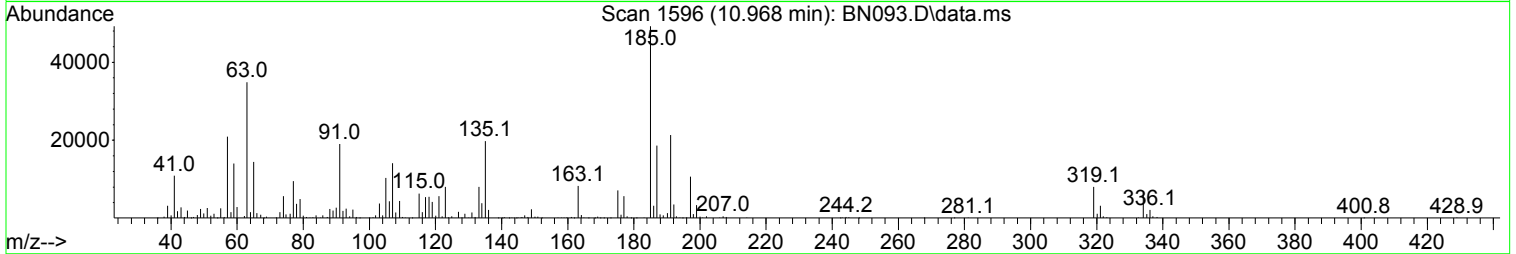
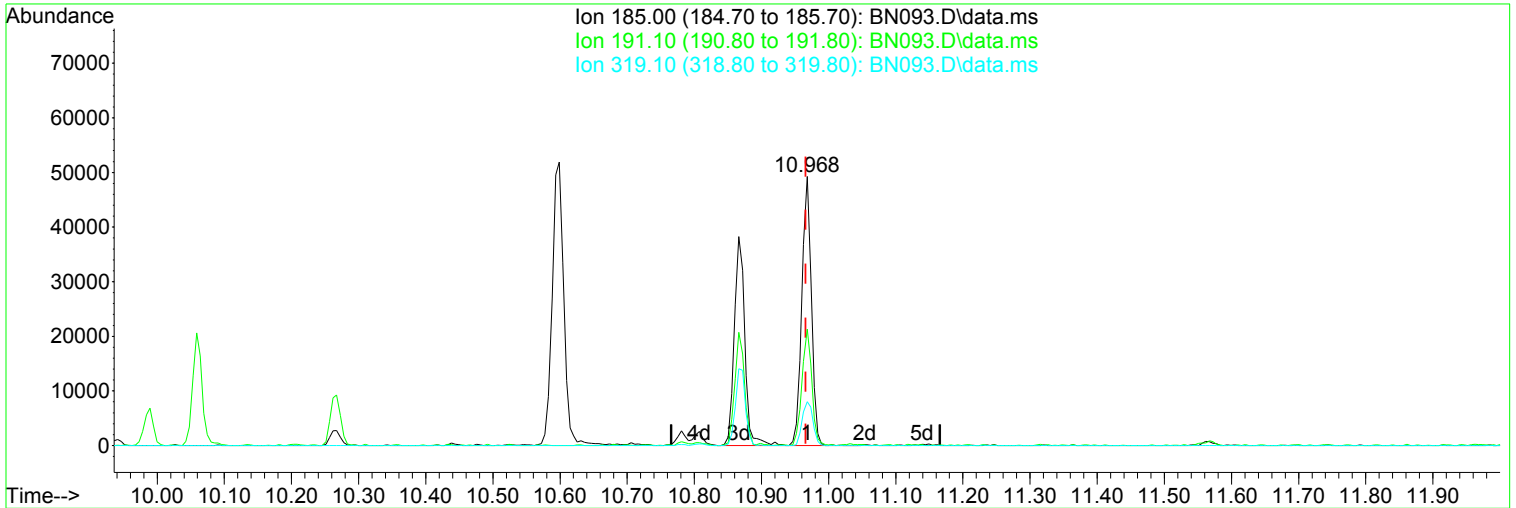
Quant Time: Jan 24 08:48:55 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Mon Jan 08 15:01:48 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN093.D  
Acq On : 23 Jan 2018 5:17 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 09:56:10 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



(125) Aramite (TM)

10.968min (+ 0.002) 87.46 ppm m

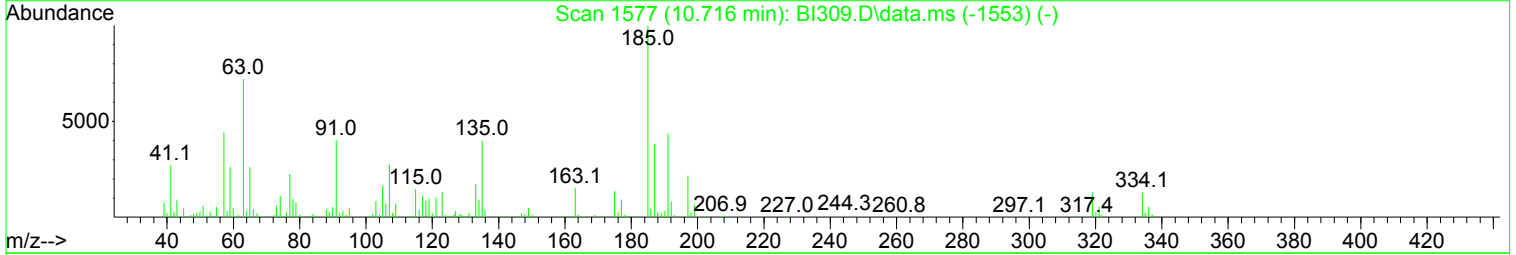
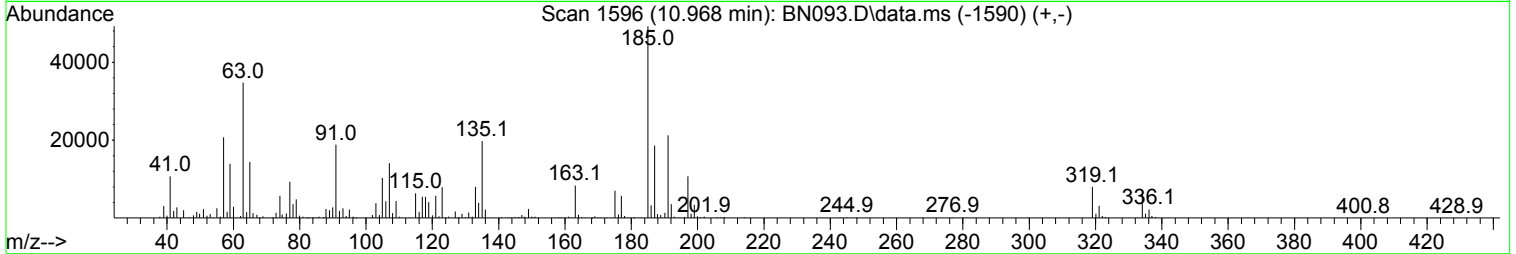
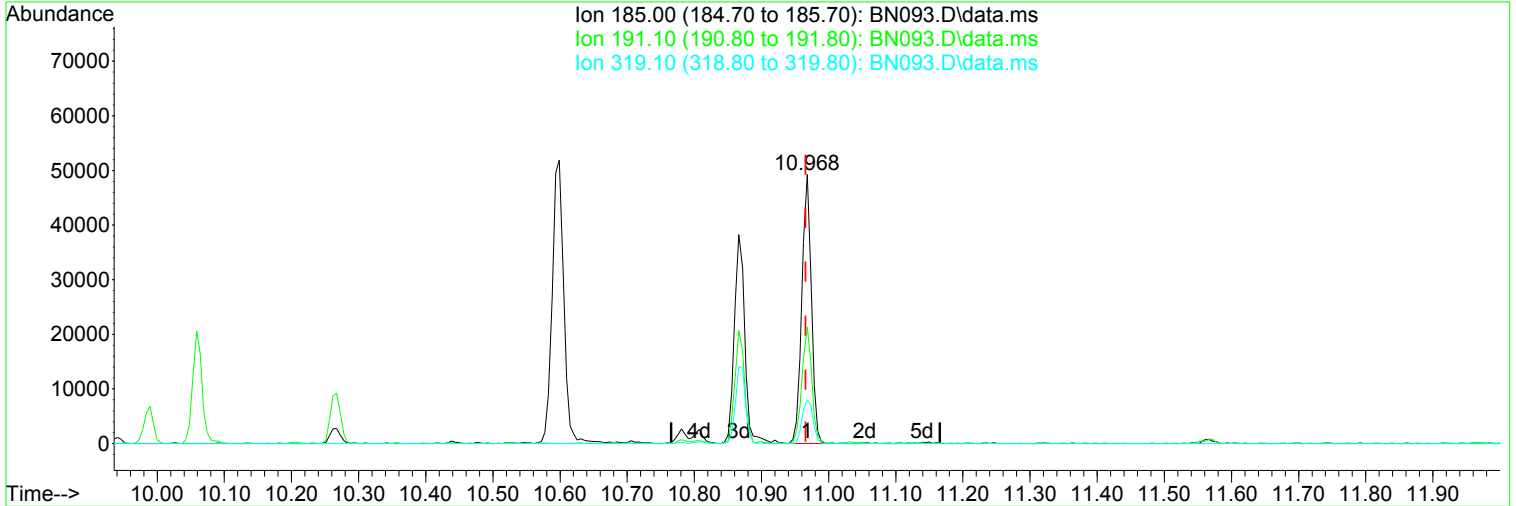
response 90005

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	43.28
319.10	16.20	16.31
0.00	0.00	0.00

Manual Integration:  
After  
Split Peak.  
01/24/18

Data Path : I:\ACQUDATA\5973D\Data\012318\  
Data File : BN093.D  
Acq On : 23 Jan 2018 5:17 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 09:56:10 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270012318D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 09:08:21 2018  
Response via : Initial Calibration



TIC: BN093.D\data.ms

(125) Aramite (TM)			Manual Integration:
10.968min (+ 0.002)	47.03 ppm		Before
response	48392		
Ion	Exp%	Act%	01/24/18
185.00	100.00	100.00	
191.10	44.80	43.07	
319.10	16.20	16.31	
0.00	0.00	0.00	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1800017-01	2.5 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN085.D	01/23/2018 13:16
02	RC1800017-02	5.0 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN086.D	01/23/2018 13:45
03	RC1800017-03	10 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN087.D	01/23/2018 14:13
04	RC1800017-04	50 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN088.D	01/23/2018 14:41
05	RC1800017-05	80 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN089.D	01/23/2018 15:24
06	RC1800017-06	100 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN090.D	01/23/2018 15:52
07	RC1800017-07	120 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN091.D	01/23/2018 16:20
08	RC1800017-08	160 ppm STD	I:\ACQUADATA\5973D\Data\012318\BN092.D	01/23/2018 16:49

**Analyte**

**1,2,4,5-Tetrachlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5911	02	5.000	0.588	03	10.000	0.5947	04	50.000	0.579
05	80.000	0.5772	06	100.000	0.6145	07	120.000	0.6179	08	160.000	0.6233

**2,3,4,6-Tetrachlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1977	04	50.000	0.2283	05	80.000	0.2546	06	100.000	0.28
07	120.000	0.2969	08	160.000	0.3116						

**2,4,5-Trichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2816	03	10.000	0.3277	04	50.000	0.3489	05	80.000	0.3432
06	100.000	0.3694	07	120.000	0.3816	08	160.000	0.3906			

**2,4,6-Trichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2496	03	10.000	0.3025	04	50.000	0.3536	05	80.000	0.3592
06	100.000	0.3726	07	120.000	0.3776	08	160.000	0.3794			

**2,4-Dichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1962	02	5.000	0.2127	03	10.000	0.2294	04	50.000	0.2465
05	80.000	0.2548	06	100.000	0.2545	07	120.000	0.2573	08	160.000	0.2603

**2,4-Dimethylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2926	02	5.000	0.3	03	10.000	0.3064	04	50.000	0.309
05	80.000	0.3142	06	100.000	0.3165	07	120.000	0.3187	08	160.000	0.3218

**2,4-Dinitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.04829	04	50.000	0.08212	05	80.000	0.0965	06	100.000	0.1136
07	120.000	0.1214	08	160.000	0.1344						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

**Analyte**

**2,4-Dinitrotoluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.1923	03	10.000	0.2151	04	50.000	0.2923	05	80.000	0.3299
06	100.000	0.3608	07	120.000	0.394	08	160.000	0.4144			

**2,6-Dinitrotoluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.1778	03	10.000	0.1972	04	50.000	0.2321	05	80.000	0.2468
06	100.000	0.2733	07	120.000	0.2983	08	160.000	0.3076			

**2-Chloronaphthalene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.268	02	5.000	1.185	03	10.000	1.173	04	50.000	1.188
05	80.000	1.155	06	100.000	1.206	07	120.000	1.205	08	160.000	1.206

**2-Chlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.264	02	5.000	1.099	03	10.000	1.228	04	50.000	1.245
05	80.000	1.287	06	100.000	1.265	07	120.000	1.33	08	160.000	1.321

**2-Methylnaphthalene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6416	02	5.000	0.6027	03	10.000	0.5947	04	50.000	0.6116
05	80.000	0.6219	06	100.000	0.6053	07	120.000	0.6129	08	160.000	0.6195

**2-Methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.076	02	5.000	1.067	03	10.000	1.084	04	50.000	1.139
05	80.000	1.129	06	100.000	1.098	07	120.000	1.164	08	160.000	1.149

**2-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.209	04	50.000	0.2498	05	80.000	0.2635	06	100.000	0.2793
07	120.000	0.3012	08	160.000	0.3143						

**2-Nitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.09652	03	10.000	0.1094	04	50.000	0.1244	05	80.000	0.1475
06	100.000	0.153	07	120.000	0.1596	08	160.000	0.1707			

**3,3'-Dichlorobenzidine**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.4204	03	10.000	0.4355	04	50.000	0.5142	05	80.000	0.5213
06	100.000	0.5307	07	120.000	0.55	08	160.000	0.5562			

**3- and 4-Methylphenol Coelution**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1	02	5.000	0.9782	03	10.000	1.104	04	50.000	1.185
05	80.000	1.199	06	100.000	1.181	07	120.000	1.224	08	160.000	1.329

**Client:** Day Environmental, Incorporated  
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**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

**Analyte**

**3-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.2165	04	50.000	0.2651	05	80.000	0.2988	06	100.000	0.3272
07	120.000	0.354	08	160.000	0.3643						

**4,6-Dinitro-2-methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.0484	03	10.000	0.05951	04	50.000	0.08601	05	80.000	0.09461
06	100.000	0.106	07	120.000	0.11	08	160.000	0.1165			

**4-Bromophenyl Phenyl Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1949	02	5.000	0.2086	03	10.000	0.2084	04	50.000	0.1775
05	80.000	0.1818	06	100.000	0.1855	07	120.000	0.1857	08	160.000	0.1903

**4-Chloro-3-methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2248	02	5.000	0.2308	03	10.000	0.2449	04	50.000	0.2602
05	80.000	0.2626	06	100.000	0.2528	07	120.000	0.258	08	160.000	0.2588

**4-Chloroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4141	02	5.000	0.4257	03	10.000	0.4379	04	50.000	0.4531
05	80.000	0.4675	06	100.000	0.4556	07	120.000	0.4607	08	160.000	0.4637

**4-Chlorophenyl Phenyl Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6553	02	5.000	0.61	03	10.000	0.6088	04	50.000	0.597
05	80.000	0.5788	06	100.000	0.5716	07	120.000	0.5795	08	160.000	0.5881

**4-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.2767	04	50.000	0.3566	05	80.000	0.3765	06	100.000	0.3656
07	120.000	0.3843	08	160.000	0.3865						

**4-Nitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1237	04	50.000	0.174	05	80.000	0.1945	06	100.000	0.2157
07	120.000	0.2249	08	160.000	0.2118						

**Acenaphthene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.333	02	5.000	1.245	03	10.000	1.271	04	50.000	1.26
05	80.000	1.237	06	100.000	1.26	07	120.000	1.268	08	160.000	1.268

**Acenaphthylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.718	02	5.000	1.724	03	10.000	1.862	04	50.000	1.904
05	80.000	1.847	06	100.000	1.867	07	120.000	1.908	08	160.000	1.91

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QA/QC Report

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Analyte

Acetophenone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.699	02	5.000	1.741	03	10.000	1.832	04	50.000	1.743
05	80.000	1.759	06	100.000	1.724	07	120.000	1.759	08	160.000	1.739

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9484	02	5.000	0.9237	03	10.000	1	04	50.000	1.018
05	80.000	1.014	06	100.000	1.007	07	120.000	1.028	08	160.000	1.008

Atrazine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09928	02	5.000	0.1012	03	10.000	0.1129	04	50.000	0.1125
05	80.000	0.1086	06	100.000	0.1057	07	120.000	0.1084	08	160.000	0.1005

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.046	02	5.000	1.011	03	10.000	1.057	04	50.000	1.112
05	80.000	1.108	06	100.000	1.132	07	120.000	1.129	08	160.000	1.152

Benzaldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.8117	02	10.000	0.7972	03	20.000	0.8278	04	50.000	0.8172
05	80.000	0.8132	06	100.000	0.7968	07	120.000	0.7958			

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.8246	03	10.000	0.8789	04	50.000	0.989	05	80.000	1.019
06	100.000	1.028	07	120.000	1.059	08	160.000	1.069			

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9145	02	5.000	1.038	03	10.000	1.098	04	50.000	1.182
05	80.000	1.223	06	100.000	1.223	07	120.000	1.246	08	160.000	1.304

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.885	02	5.000	0.9185	03	10.000	0.9071	04	50.000	0.9008
05	80.000	0.8369	06	100.000	0.8565	07	120.000	0.8358	08	160.000	0.81

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.036	02	5.000	1.044	03	10.000	1.041	04	50.000	1.125
05	80.000	1.152	06	100.000	1.164	07	120.000	1.161	08	160.000	1.162

Biphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.483	02	5.000	1.53	03	10.000	1.547	04	50.000	1.536
05	80.000	1.52	06	100.000	1.567	07	120.000	1.579	08	160.000	1.54

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QA/QC Report

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**Analyte**

**2,2'-Oxybis(1-chloropropane)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.137	02	5.000	1.116	03	10.000	1.196	04	50.000	1.159
05	80.000	1.175	06	100.000	1.141	07	120.000	1.17	08	160.000	1.151

**Bis(2-chloroethoxy)methane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3523	02	5.000	0.3455	03	10.000	0.346	04	50.000	0.354
05	80.000	0.3557	06	100.000	0.3448	07	120.000	0.3504	08	160.000	0.3609

**Bis(2-chloroethyl) Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.178	02	5.000	1.116	03	10.000	1.134	04	50.000	1.111
05	80.000	1.113	06	100.000	1.095	07	120.000	1.132	08	160.000	1.095

**Bis(2-ethylhexyl) Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.6227	03	10.000	0.7107	04	50.000	0.8513	05	80.000	0.8686
06	100.000	0.9224	07	120.000	0.9097	08	160.000	0.9301			

**Butyl Benzyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4677	02	5.000	0.5286	03	10.000	0.5451	04	50.000	0.6142
05	80.000	0.6178	06	100.000	0.6471	07	120.000	0.6428	08	160.000	0.6481

**Caprolactam**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.07457	03	10.000	0.08157	04	50.000	0.09309	05	80.000	0.0959
06	100.000	0.09374	07	120.000	0.0955	08	160.000	0.09921			

**Carbazole**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8856	02	5.000	0.9896	03	10.000	1.067	04	50.000	1.085
05	80.000	1.043	06	100.000	1.017	07	120.000	1.036	08	160.000	0.9942

**Chrysene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.028	02	5.000	1.002	03	10.000	1.071	04	50.000	1.036
05	80.000	1.026	06	100.000	1.047	07	120.000	1.056	08	160.000	1.061

**Di-n-butyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.011	02	5.000	1.083	03	10.000	1.345	04	50.000	1.402
05	80.000	1.351	06	100.000	1.343	07	120.000	1.349	08	160.000	1.286

**Di-n-octyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.8083	03	10.000	0.9972	04	50.000	1.357	05	80.000	1.474
06	100.000	1.598	07	120.000	1.569	08	160.000	1.661			

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QA/QC Report

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Service Request: R1801334  
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Signal ID: 1

Analyte

Dibenz(a,h)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9005	02	5.000	0.9466	03	10.000	0.9817	04	50.000	1.009
05	80.000	0.9827	06	100.000	1.006	07	120.000	1.015	08	160.000	1.023

Dibenzofuran

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.683	02	5.000	1.644	03	10.000	1.676	04	50.000	1.684
05	80.000	1.637	06	100.000	1.64	07	120.000	1.638	08	160.000	1.618

Diethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.226	02	5.000	1.28	03	10.000	1.316	04	50.000	1.329
05	80.000	1.337	06	100.000	1.411	07	120.000	1.462	08	160.000	1.472

Dimethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.27	02	5.000	1.339	03	10.000	1.412	04	50.000	1.316
05	80.000	1.296	06	100.000	1.343	07	120.000	1.37	08	160.000	1.424

Fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9598	02	5.000	0.9845	03	10.000	1.15	04	50.000	1.148
05	80.000	1.128	06	100.000	1.079	07	120.000	1.11	08	160.000	1.061

Fluorene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.329	02	5.000	1.361	03	10.000	1.342	04	50.000	1.347
05	80.000	1.286	06	100.000	1.308	07	120.000	1.312	08	160.000	1.34

Hexachlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2511	02	5.000	0.2623	03	10.000	0.2736	04	50.000	0.2339
05	80.000	0.2288	06	100.000	0.2348	07	120.000	0.2353	08	160.000	0.2393

Hexachlorobutadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.165	02	5.000	0.1722	03	10.000	0.162	04	50.000	0.1588
05	80.000	0.1657	06	100.000	0.1649	07	120.000	0.1658	08	160.000	0.1679

Hexachlorocyclopentadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2667	02	5.000	0.2802	03	10.000	0.3023	04	50.000	0.3355
05	80.000	0.3429	06	100.000	0.3715	07	120.000	0.3749	08	160.000	0.3876

Hexachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5805	02	5.000	0.5522	03	10.000	0.5706	04	50.000	0.5492
05	80.000	0.5618	06	100.000	0.5595	07	120.000	0.5822	08	160.000	0.5661



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QA/QC Report

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Signal ID: 1

Analyte

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.749	02	5.000	0.8035	03	10.000	0.8748	04	50.000	0.8986
05	80.000	0.8655	06	100.000	0.8802	07	120.000	0.882	08	160.000	0.9091

Isophorone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5394	02	5.000	0.5644	03	10.000	0.5717	04	50.000	0.5742
05	80.000	0.5802	06	100.000	0.576	07	120.000	0.5823	08	160.000	0.5877

N-Nitrosodi-n-propylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8502	02	5.000	0.832	03	10.000	0.8787	04	50.000	0.8666
05	80.000	0.8894	06	100.000	0.8576	07	120.000	0.8832	08	160.000	0.8707

N-Nitrosodiphenylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.5518	02	10.000	0.5905	03	20.000	0.6113	04	100.000	0.5387
05	160.000	0.5343	06	200.000	0.551	07	240.000	0.5497	08	320.000	0.5435

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.005	02	5.000	1.006	03	10.000	0.9742	04	50.000	0.943
05	80.000	0.9415	06	100.000	0.9218	07	120.000	0.9341	08	160.000	0.9278

Nitrobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2414	02	5.000	0.2466	03	10.000	0.2615	04	50.000	0.2854
05	80.000	0.3062	06	100.000	0.3142	07	120.000	0.3208	08	160.000	0.3295

Pentachlorophenol (PCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1001	04	50.000	0.1275	05	80.000	0.139	06	100.000	0.1482
07	120.000	0.1564	08	160.000	0.1631						

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.043	02	5.000	0.9935	03	10.000	1.005	04	50.000	1.018
05	80.000	0.9906	06	100.000	0.9916	07	120.000	1.01	08	160.000	0.9826

Phenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.402	02	5.000	1.34	03	10.000	1.479	04	50.000	1.514
05	80.000	1.515	06	100.000	1.494	07	120.000	1.551	08	160.000	1.513

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.08	02	5.000	1.141	03	10.000	1.111	04	50.000	1.181
05	80.000	1.144	06	100.000	1.186	07	120.000	1.167	08	160.000	1.187

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**Analyte**

**2,4,6-Tribromophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1633	04	50.000	0.189	05	80.000	0.2057	06	100.000	0.2245
07	120.000	0.2386	08	160.000	0.25						

**2-Fluorobiphenyl**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.41	02	5.000	1.374	03	10.000	1.381	04	50.000	1.389
05	80.000	1.367	06	100.000	1.427	07	120.000	1.429	08	160.000	1.414

**2-Fluorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.194	02	5.000	1.152	03	10.000	1.177	04	50.000	1.246
05	80.000	1.273	06	100.000	1.264	07	120.000	1.318	08	160.000	1.314

**Nitrobenzene-d5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2356	02	5.000	0.2336	03	10.000	0.2462	04	50.000	0.2584
05	80.000	0.2851	06	100.000	0.298	07	120.000	0.3108	08	160.000	0.319

**Phenol-d6**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.233	02	5.000	1.371	03	10.000	1.47	04	50.000	1.507
05	80.000	1.525	06	100.000	1.496	07	120.000	1.566	08	160.000	1.559

**Terphenyl-d14**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.7977	02	5.000	0.887	03	10.000	0.8449	04	50.000	0.8552
05	80.000	0.8427	06	100.000	0.882	07	120.000	0.8642	08	160.000	0.8836

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Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,2,4,5-Tetrachlorobenzene	TRG	Average RF	% RSD	3.0	20	0.5982	0.010
2,3,4,6-Tetrachlorophenol	TRG	Average RF	% RSD	16.5	20	0.2615	0.010
2,4,5-Trichlorophenol	TRG	Average RF	% RSD	10.6	20	0.349	0.200
2,4,6-Trichlorophenol	TRG	Average RF	% RSD	14.2	20	0.3421	0.200
2,4-Dichlorophenol	TRG	Average RF	% RSD	9.9	20	0.239	0.200
2,4-Dimethylphenol	TRG	Average RF	% RSD	3.2	20	0.3099	0.200
2,4-Dinitrophenol	TRG	Quadratic	COD	0.9973	0.99	0.09937	0.010
2,4-Dinitrotoluene	TRG	Quadratic	COD	0.9974	0.99	0.3141	0.200
2,6-Dinitrotoluene	TRG	Average RF	% RSD	19.8	20	0.2476	0.200
2-Chloronaphthalene	TRG	Average RF	% RSD	2.8	20	1.198	0.800
2-Chlorophenol	TRG	Average RF	% RSD	5.8	20	1.255	0.800
2-Methylnaphthalene	TRG	Average RF	% RSD	2.3	20	0.6138	0.400
2-Methylphenol	TRG	Average RF	% RSD	3.3	20	1.113	0.700
2-Nitroaniline	TRG	Average RF	% RSD	14.1	20	0.2695	0.010
2-Nitrophenol	TRG	Quadratic	COD	0.9989	0.99	0.1373	0.100
3,3'-Dichlorobenzidine	TRG	Average RF	% RSD	10.8	20	0.504	0.010
3- and 4-Methylphenol Coelution	TRG	Average RF	% RSD	10.2	20	1.15	0.600
3-Nitroaniline	TRG	Average RF	% RSD	18.5	20	0.3043	0.010
4,6-Dinitro-2-methylphenol	TRG	Quadratic	COD	0.9977	0.99	0.08872	0.010
4-Bromophenyl Phenyl Ether	TRG	Average RF	% RSD	6.1	20	0.1916	0.100
4-Chloro-3-methylphenol	TRG	Average RF	% RSD	5.7	20	0.2491	0.200
4-Chloroaniline	TRG	Average RF	% RSD	4.3	20	0.4473	0.010
4-Chlorophenyl Phenyl Ether	TRG	Average RF	% RSD	4.5	20	0.5986	0.400
4-Nitroaniline	TRG	Average RF	% RSD	11.5	20	0.3577	0.010
4-Nitrophenol	TRG	Average RF	% RSD	19.6	20	0.1908	0.010
Acenaphthene	TRG	Average RF	% RSD	2.3	20	1.268	0.900
Acenaphthylene	TRG	Average RF	% RSD	4.3	20	1.842	0.900
Acetophenone	TRG	Average RF	% RSD	2.2	20	1.75	0.010
Anthracene	TRG	Average RF	% RSD	3.7	20	0.9933	0.700
Atrazine	TRG	Average RF	% RSD	5.0	20	0.1061	0.010
Benz(a)anthracene	TRG	Average RF	% RSD	4.5	20	1.093	0.800
Benzaldehyde	TRG	Average RF	% RSD	1.5	20	0.8085	0.010
Benzo(a)pyrene	TRG	Average RF	% RSD	9.5	20	0.9812	0.700
Benzo(b)fluoranthene	TRG	Average RF	% RSD	11.1	20	1.154	0.700

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	4.6	20	0.8688	0.500
Benzo(k)fluoranthene	TRG	Average RF	% RSD	5.4	20	1.111	0.700
Biphenyl	TRG	Average RF	% RSD	1.9	20	1.538	0.010
2,2'-Oxybis(1-chloropropane)	TRG	Average RF	% RSD	2.2	20	1.156	0.010
Bis(2-chloroethoxy)methane	TRG	Average RF	% RSD	1.6	20	0.3512	0.300
Bis(2-chloroethyl) Ether	TRG	Average RF	% RSD	2.4	20	1.122	0.700
Bis(2-ethylhexyl) Phthalate	TRG	Average RF	% RSD	14.2	20	0.8308	0.010
Butyl Benzyl Phthalate	TRG	Average RF	% RSD	11.4	20	0.5889	0.010
Caprolactam	TRG	Average RF	% RSD	9.9	20	0.09051	0.010
Carbazole	TRG	Average RF	% RSD	6.1	20	1.015	0.010
Chrysene	TRG	Average RF	% RSD	2.1	20	1.041	0.700
Di-n-butyl Phthalate	TRG	Average RF	% RSD	11.3	20	1.271	0.010
Di-n-octyl Phthalate	TRG	Quadratic	COD	0.9980	0.99	1.352	0.010
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	4.2	20	0.983	0.400
Dibenzofuran	TRG	Average RF	% RSD	1.5	20	1.653	0.800
Diethyl Phthalate	TRG	Average RF	% RSD	6.4	20	1.354	0.010
Dimethyl Phthalate	TRG	Average RF	% RSD	4.0	20	1.346	0.010
Fluoranthene	TRG	Average RF	% RSD	6.7	20	1.078	0.600
Fluorene	TRG	Average RF	% RSD	1.8	20	1.328	0.900
Hexachlorobenzene	TRG	Average RF	% RSD	6.5	20	0.2449	0.100
Hexachlorobutadiene	TRG	Average RF	% RSD	2.4	20	0.1653	0.010
Hexachlorocyclopentadiene	TRG	Average RF	% RSD	13.7	20	0.3327	0.050
Hexachloroethane	TRG	Average RF	% RSD	2.1	20	0.5653	0.300
Indeno(1,2,3-cd)pyrene	TRG	Average RF	% RSD	6.3	20	0.8578	0.500
Isophorone	TRG	Average RF	% RSD	2.6	20	0.572	0.400
N-Nitrosodi-n-propylamine	TRG	Average RF	% RSD	2.2	20	0.866	0.500
N-Nitrosodiphenylamine	TRG	Average RF	% RSD	4.9	20	0.5588	0.010
Naphthalene	TRG	Average RF	% RSD	3.5	20	0.9566	0.700
Nitrobenzene	TRG	Average RF	% RSD	12.0	20	0.2882	0.200
Pentachlorophenol (PCP)	TRG	Average RF	% RSD	16.4	20	0.139	0.050
Phenanthrene	TRG	Average RF	% RSD	1.9	20	1.004	0.700
Phenol	TRG	Average RF	% RSD	4.7	20	1.476	0.800
Pyrene	TRG	Average RF	% RSD	3.4	20	1.15	0.600
2,4,6-Tribromophenol	SURR	Average RF	% RSD	15.3	20	0.2119	
2-Fluorobiphenyl	SURR	Average RF	% RSD	1.7	20	1.399	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2-Fluorophenol	SURR	Average RF	% RSD	5.0	20	1.242	
Nitrobenzene-d5	SURR	Average RF	% RSD	12.5	20	0.2733	
Phenol-d6	SURR	Average RF	% RSD	7.6	20	1.466	
Terphenyl-d14	SURR	Average RF	% RSD	3.5	20	0.8572	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1800017-09	ICV	I:\ACQUADATA\5973D\Data\012318\BN093.D	01/23/2018 17:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	76.2	5.982E-1	5.698E-1	-4.744	±30	Average RF
2,3,4,6-Tetrachlorophenol	80.0	83.6	2.615E-1	2.732E-1	4.48	±30	Average RF
2,4,5-Trichlorophenol	80.0	81.7	3.49E-1	3.565E-1	2.15	±30	Average RF
2,4,6-Trichlorophenol	80.0	85.8	3.421E-1	3.668E-1	7.24	±30	Average RF
2,4-Dichlorophenol	80.0	85.0	2.39E-1	2.539E-1	6.24	±30	Average RF
2,4-Dimethylphenol	80.0	79.8	3.099E-1	3.09E-1	-0.308	±30	Average RF
2,4-Dinitrophenol	80.0	92.8	9.937E-2	1.225E-1	16.06	±30	Quadratic
2,4-Dinitrotoluene	80.0	92.9	3.141E-1	4.029E-1	16.15	±30	Quadratic
2,6-Dinitrotoluene	80.0	99.4	2.476E-1	3.076E-1	24.23	±30	Average RF
2-Chloronaphthalene	80.0	78.0	1.198E0	1.168E0	-2.521	±30	Average RF
2-Chlorophenol	80.0	85.0	1.255E0	1.333E0	6.23	±30	Average RF
2-Methylnaphthalene	80.0	77.3	6.138E-1	5.93E-1	-3.395	±30	Average RF
2-Methylphenol	80.0	80.2	1.113E0	1.116E0	0.213	±30	Average RF
2-Nitroaniline	80.0	83.6	2.695E-1	2.815E-1	4.45	±30	Average RF
2-Nitrophenol	80.0	88.1	1.373E-1	1.608E-1	10.13	±30	Quadratic
3,3'-Dichlorobenzidine	50.0	46.7	5.04E-1	4.71E-1	-6.552	±30	Average RF
3- and 4-Methylphenol Coelution	80.0	85.5	1.15E0	1.229E0	6.86	±30	Average RF
3-Nitroaniline	80.0	82.3	3.043E-1	3.132E-1	2.93	±30	Average RF
4,6-Dinitro-2-methylphenol	80.0	85.2	8.872E-2	1.037E-1	6.52	±30	Quadratic
4-Bromophenyl Phenyl Ether	80.0	82.6	1.916E-1	1.978E-1	3.26	±30	Average RF
4-Chloro-3-methylphenol	80.0	83.5	2.491E-1	2.6E-1	4.37	±30	Average RF
4-Chloroaniline	50.0	46.8	4.473E-1	4.185E-1	-6.432	±30	Average RF
4-Chlorophenyl Phenyl Ether	80.0	80.2	5.986E-1	6.002E-1	0.261	±30	Average RF
4-Nitroaniline	80.0	81.6	3.577E-1	3.648E-1	1.98	±30	Average RF
4-Nitrophenol	80.0	82.5	1.908E-1	1.968E-1	3.18	±30	Average RF
Acenaphthene	80.0	79.5	1.268E0	1.26E0	-0.571	±30	Average RF
Acenaphthylene	80.0	84.5	1.842E0	1.946E0	5.61	±30	Average RF
Acetophenone	80.0	79.8	1.75E0	1.746E0	-0.224	±30	Average RF
Anthracene	80.0	82.5	9.933E-1	1.024E0	3.13	±30	Average RF
Atrazine	50.0	44.2	1.061E-1	9.391E-2	-11.512	±30	Average RF
Benz(a)anthracene	80.0	84.9	1.093E0	1.16E0	6.09	±30	Average RF
Benzaldehyde	80.0	86.3	8.085E-1	8.718E-1	7.83	±30	Average RF
Benzo(a)pyrene	80.0	86.8	9.812E-1	1.064E0	8.47	±30	Average RF
Benzo(b)fluoranthene	80.0	85.5	1.154E0	1.233E0	6.90	±30	Average RF
Benzo(g,h,i)perylene	80.0	79.6	8.688E-1	8.645E-1	-0.496	±30	Average RF

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1800017-09	ICV	I:\ACQUADATA\5973D\Data\012318\BN093.D	01/23/2018 17:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzo(k)fluoranthene	80.0	85.7	1.111E0	1.19E0	7.11	±30	Average RF
Biphenyl	80.0	79.2	1.538E0	1.523E0	-0.958	±30	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	100	1.156E0	1.45E0	25.48	±30	Average RF
Bis(2-chloroethoxy)methane	80.0	81.4	3.512E-1	3.573E-1	1.74	±30	Average RF
Bis(2-chloroethyl) Ether	80.0	84.5	1.122E0	1.185E0	5.61	±30	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	86.1	8.308E-1	8.944E-1	7.65	±30	Average RF
Butyl Benzyl Phthalate	80.0	83.3	5.889E-1	6.135E-1	4.16	±30	Average RF
Caprolactam	80.0	79.4	9.051E-2	8.983E-2	-0.757	±30	Average RF
Carbazole	80.0	76.8	1.015E0	9.74E-1	-4.020	±30	Average RF
Chrysene	80.0	85.7	1.041E0	1.115E0	7.15	±30	Average RF
Di-n-butyl Phthalate	80.0	82.4	1.271E0	1.309E0	3.00	±30	Average RF
Di-n-octyl Phthalate	80.0	77.2	1.352E0	1.403E0	-3.540	±30	Quadratic
Dibenz(a,h)anthracene	80.0	84.7	9.83E-1	1.04E0	5.82	±30	Average RF
Dibenzofuran	80.0	78.7	1.653E0	1.626E0	-1.643	±30	Average RF
Diethyl Phthalate	80.0	76.3	1.354E0	1.291E0	-4.665	±30	Average RF
Dimethyl Phthalate	80.0	74.5	1.346E0	1.253E0	-6.914	±30	Average RF
Fluoranthene	80.0	84.9	1.078E0	1.143E0	6.08	±30	Average RF
Fluorene	80.0	78.9	1.328E0	1.31E0	-1.386	±30	Average RF
Hexachlorobenzene	80.0	74.0	2.449E-1	2.266E-1	-7.456	±30	Average RF
Hexachlorobutadiene	80.0	77.9	1.653E-1	1.609E-1	-2.640	±30	Average RF
Hexachlorocyclopentadiene	80.0	84.1	3.327E-1	3.498E-1	5.13	±30	Average RF
Hexachloroethane	80.0	82.3	5.653E-1	5.814E-1	2.86	±30	Average RF
Indeno(1,2,3-cd)pyrene	80.0	86.1	8.578E-1	9.231E-1	7.60	±30	Average RF
Isophorone	80.0	91.9	5.72E-1	6.571E-1	14.88	±30	Average RF
N-Nitrosodi-n-propylamine	80.0	84.5	8.66E-1	9.143E-1	5.57	±30	Average RF
N-Nitrosodiphenylamine	160	158	5.588E-1	5.517E-1	-1.278	±30	Average RF
Naphthalene	80.0	79.5	9.566E-1	9.508E-1	-0.614	±30	Average RF
Nitrobenzene	80.0	99.8	2.882E-1	3.595E-1	24.73	±30	Average RF
Pentachlorophenol (PCP)	80.0	80.6	1.39E-1	1.4E-1	0.720	±30	Average RF
Phenanthrene	80.0	80.4	1.004E0	1.009E0	0.476	±30	Average RF
Phenol	80.0	84.4	1.476E0	1.557E0	5.52	±30	Average RF
Pyrene	80.0	85.2	1.15E0	1.224E0	6.46	±30	Average RF
2,4,6-Tribromophenol	80.0	76.1	2.119E-1	2.015E-1	-4.862	±30	Average RF
2-Fluorobiphenyl	80.0	76.0	1.399E0	1.328E0	-5.043	±30	Average RF
2-Fluorophenol	80.0	80.9	1.242E0	1.256E0	1.07	±30	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800017  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Aquisition Date
09	RC1800017-09	ICV	I:\ACQUDATA\5973D\Data\012318\BN093.D	01/23/2018 17:17

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Nitrobenzene-d5	80.0	84.6	2.733E-1	2.891E-1	5.78	±30	Average RF
Phenol-d6	80.0	81.8	1.466E0	1.498E0	2.22	±30	Average RF
Terphenyl-d14	80.0	80.1	8.572E-1	8.587E-1	0.185	±30	Average RF



Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801334  
Date Analyzed: 02/21/18 08:30

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

Analysis Method: 8270D  
File ID: I:\ACQUADATA\5973D\Data\022118\BN148.D\

Calibration Date: 1/23/2018  
Calibration ID: RC1800017  
Analysis Lot: 581099  
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	76.4	0.5982	0.5715	-4.5	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	84.2	0.2615	0.2752	5.2	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	82.9	0.349	0.3618	3.7	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	85.1	0.3421	0.3639	6.4	NA	±20	Average RF
2,4-Dichlorophenol	80.0	84.0	0.239	0.2508	5.0	NA	±20	Average RF
2,4-Dimethylphenol	80.0	80.4	0.3099	0.3117	0.6	NA	±20	Average RF
2,4-Dinitrophenol	80.0	90.7	0.0994	0.1185	NA	13.4	±20	Quadratic
2,4-Dinitrotoluene	80.0	90.0	0.3141	0.3861	NA	12.5	±20	Quadratic
2,6-Dinitrotoluene	80.0	91.9	0.2476	0.2843	14.8	NA	±20	Average RF
2-Chloronaphthalene	80.0	75.7	1.1981	1.1341	-5.3	NA	±20	Average RF
2-Chlorophenol	80.0	79.5	1.2548	1.2462	-0.7	NA	±20	Average RF
2-Methylnaphthalene	80.0	78.1	0.6138	0.5992	-2.4	NA	±20	Average RF
2-Methylphenol	80.0	77.9	1.1133	1.0842	-2.6	NA	±20	Average RF
2-Nitroaniline	80.0	84.8	0.2695	0.2857	6.0	NA	±20	Average RF
2-Nitrophenol	80.0	92.9	0.1373	0.1718	NA	16.2	±20	Quadratic
3,3'-Dichlorobenzidine	80.0	81.8	0.504	0.5156	2.3	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	81.1	1.1502	1.1664	1.4	NA	±20	Average RF
3-Nitroaniline	80.0	85.5	0.3043	0.3254	6.9	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	95.9	0.0887	0.1206	NA	19.8	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	73.4	0.1916	0.1759	-8.2	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	81.3	0.2491	0.2533	1.7	NA	±20	Average RF
4-Chloroaniline	80.0	78.4	0.4473	0.4382	-2.0	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	72.4	0.5986	0.5415	-9.6	NA	±20	Average RF
4-Nitroaniline	80.0	80.0	0.3577	0.3576	0.0	NA	±20	Average RF
4-Nitrophenol	80.0	88.1	0.1908	0.21	10.1	NA	±20	Average RF
Acenaphthene	80.0	75.7	1.2677	1.199	-5.4	NA	±20	Average RF
Acenaphthylene	80.0	79.2	1.8425	1.8247	-1.0	NA	±20	Average RF
Acetophenone	80.0	73.9	1.7495	1.6154	-7.7	NA	±20	Average RF
Anthracene	80.0	78.3	0.9933	0.9727	-2.1	NA	±20	Average RF
Atrazine	80.0	79.1	0.1061	0.1049	-1.2	NA	±20	Average RF
Benz(a)anthracene	80.0	79.3	1.0935	1.0842	-0.8	NA	±20	Average RF
Benzaldehyde	80.0	49.5	0.8085	0.5002	-38.1*	NA	±20	Average RF
Benzo(a)pyrene	80.0	81.2	0.9812	0.9963	1.5	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	79.9	1.1535	1.1522	-0.1	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	83.5	0.8688	0.9064	4.3	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	78.9	1.1105	1.0959	-1.3	NA	±20	Average RF
Biphenyl	80.0	75.5	1.5379	1.4518	-5.6	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	76.0	1.1557	1.0985	-5.0	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	77.8	0.3512	0.3416	-2.7	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	77.0	1.1217	1.0801	-3.7	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	86.5	0.8308	0.8979	8.1	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	84.5	0.5889	0.6222	5.7	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 08:30

**Continuing Calibration Verification (CCV) Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUADATA\5973D\Data\022118\BN148.D\

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800017  
**Analysis Lot:** 581099  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	81.7	0.0905	0.0924	2.1	NA	±20	Average RF
Carbazole	80.0	77.3	1.0148	0.9801	-3.4	NA	±20	Average RF
Chrysene	80.0	78.5	1.0409	1.021	-1.9	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	82.6	1.2713	1.3128	3.3	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	81.1	1.3523	1.4865	NA	1.3	±20	Quadratic
Dibenz(a,h)anthracene	80.0	80.5	0.983	0.9888	0.6	NA	±20	Average RF
Dibenzofuran	80.0	76.3	1.6527	1.5754	-4.7	NA	±20	Average RF
Diethyl Phthalate	80.0	78.0	1.3541	1.3208	-2.5	NA	±20	Average RF
Dimethyl Phthalate	80.0	75.8	1.3461	1.2755	-5.2	NA	±20	Average RF
Fluoranthene	80.0	78.9	1.0776	1.0624	-1.4	NA	±20	Average RF
Fluorene	80.0	74.3	1.3281	1.2333	-7.1	NA	±20	Average RF
Hexachlorobenzene	80.0	73.3	0.2449	0.2244	-8.4	NA	±20	Average RF
Hexachlorobutadiene	80.0	77.5	0.1653	0.1601	-3.2	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	80.8	0.3327	0.3359	1.0	NA	±20	Average RF
Hexachloroethane	80.0	76.8	0.5653	0.5425	-4.0	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	84.3	0.8578	0.9041	5.4	NA	±20	Average RF
Isophorone	80.0	78.7	0.572	0.5628	-1.6	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	76.2	0.866	0.8244	-4.8	NA	±20	Average RF
N-Nitrosodiphenylamine	160	148	0.5588	0.5174	-7.4	NA	±20	Average RF
Naphthalene	80.0	75.1	0.9566	0.8984	-6.1	NA	±20	Average RF
Nitrobenzene	80.0	89.5	0.2882	0.3224	11.9	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	90.0	0.139	0.1565	12.5	NA	±20	Average RF
Phenanthrene	80.0	76.8	1.0043	0.9642	-4.0	NA	±20	Average RF
Phenol	80.0	79.4	1.476	1.4641	-0.8	NA	±20	Average RF
Pyrene	80.0	79.7	1.1496	1.1447	-0.4	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	82.5	0.2119	0.2185	3.1	NA	±20	Average RF
2-Fluorobiphenyl	80.0	76.1	1.3988	1.3299	-4.9	NA	±20	Average RF
2-Fluorophenol	80.0	77.8	1.2423	1.2088	-2.7	NA	±20	Average RF
Nitrobenzene-d5	80.0	90.5	0.2733	0.3093	13.2	NA	±20	Average RF
Phenol-d6	80.0	80.5	1.4658	1.4742	0.6	NA	±20	Average RF
Terphenyl-d14	80.0	77.4	0.8572	0.8289	-3.3	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/22/18 08:32

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUDATA\5973D\Data\022218\BN182.D\

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800017  
**Analysis Lot:** 581270  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	79.5	0.5982	0.5947	-0.6	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	91.0	0.2615	0.2974	13.7	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	84.9	0.349	0.3704	6.1	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	88.5	0.3421	0.3784	10.6	NA	±20	Average RF
2,4-Dichlorophenol	80.0	84.3	0.239	0.2518	5.4	NA	±20	Average RF
2,4-Dimethylphenol	80.0	81.5	0.3099	0.3158	1.9	NA	±20	Average RF
2,4-Dinitrophenol	80.0	106	0.0994	0.1477	NA	32.1*	±20	Quadratic
2,4-Dinitrotoluene	80.0	94.1	0.3141	0.4095	NA	17.6	±20	Quadratic
2,6-Dinitrotoluene	80.0	96.8	0.2476	0.2997	21.0*	NA	±20	Average RF
2-Chloronaphthalene	80.0	78.3	1.1981	1.1734	-2.1	NA	±20	Average RF
2-Chlorophenol	80.0	82.5	1.2548	1.2933	3.1	NA	±20	Average RF
2-Methylnaphthalene	80.0	79.9	0.6138	0.6127	-0.2	NA	±20	Average RF
2-Methylphenol	80.0	79.4	1.1133	1.1047	-0.8	NA	±20	Average RF
2-Nitroaniline	80.0	87.4	0.2695	0.2943	9.2	NA	±20	Average RF
2-Nitrophenol	80.0	96.9	0.1373	0.181	NA	21.1*	±20	Quadratic
3,3'-Dichlorobenzidine	80.0	82.9	0.504	0.5222	3.6	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	82.3	1.1502	1.1832	2.9	NA	±20	Average RF
3-Nitroaniline	80.0	89.6	0.3043	0.3408	12.0	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	100	0.0887	0.1281	NA	25.6*	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	74.6	0.1916	0.1786	-6.8	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	82.5	0.2491	0.2568	3.1	NA	±20	Average RF
4-Chloroaniline	80.0	80.1	0.4473	0.4481	0.2	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	78.0	0.5986	0.5838	-2.5	NA	±20	Average RF
4-Nitroaniline	80.0	83.9	0.3577	0.375	4.9	NA	±20	Average RF
4-Nitrophenol	80.0	89.7	0.1908	0.2138	12.1	NA	±20	Average RF
Acenaphthene	80.0	78.9	1.2677	1.2497	-1.4	NA	±20	Average RF
Acenaphthylene	80.0	81.0	1.8425	1.8658	1.3	NA	±20	Average RF
Acetophenone	80.0	75.2	1.7495	1.6443	-6.0	NA	±20	Average RF
Anthracene	80.0	79.6	0.9933	0.9886	-0.5	NA	±20	Average RF
Atrazine	80.0	77.5	0.1061	0.1029	-3.1	NA	±20	Average RF
Benz(a)anthracene	80.0	80.6	1.0935	1.1011	0.7	NA	±20	Average RF
Benzaldehyde	80.0	77.7	0.8085	0.785	-2.9	NA	±20	Average RF
Benzo(a)pyrene	80.0	82.8	0.9812	1.0154	3.5	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	81.7	1.1535	1.1776	2.1	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	90.1	0.8688	0.9785	12.6	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	80.1	1.1105	1.1123	0.2	NA	±20	Average RF
Biphenyl	80.0	78.6	1.5379	1.5106	-1.8	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	77.3	1.1557	1.117	-3.4	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	77.9	0.3512	0.3421	-2.6	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	76.2	1.1217	1.0686	-4.7	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	83.2	0.8308	0.864	4.0	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	82.7	0.5889	0.6085	3.3	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/22/18 08:32

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUDATA\5973D\Data\022218\BN182.D\

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800017  
**Analysis Lot:** 581270  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	83.4	0.0905	0.0943	4.2	NA	±20	Average RF
Carbazole	80.0	79.0	1.0148	1.0015	-1.3	NA	±20	Average RF
Chrysene	80.0	79.0	1.0409	1.0276	-1.3	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	83.1	1.2713	1.3202	3.9	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	81.7	1.3523	1.4992	NA	2.1	±20	Quadratic
Dibenz(a,h)anthracene	80.0	86.8	0.983	1.0663	8.5	NA	±20	Average RF
Dibenzofuran	80.0	78.8	1.6527	1.6273	-1.5	NA	±20	Average RF
Diethyl Phthalate	80.0	80.7	1.3541	1.3657	0.9	NA	±20	Average RF
Dimethyl Phthalate	80.0	78.1	1.3461	1.3145	-2.3	NA	±20	Average RF
Fluoranthene	80.0	81.8	1.0776	1.1013	2.2	NA	±20	Average RF
Fluorene	80.0	78.8	1.3281	1.3077	-1.5	NA	±20	Average RF
Hexachlorobenzene	80.0	76.4	0.2449	0.2337	-4.6	NA	±20	Average RF
Hexachlorobutadiene	80.0	79.1	0.1653	0.1635	-1.1	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	80.4	0.3327	0.3344	0.5	NA	±20	Average RF
Hexachloroethane	80.0	78.6	0.5653	0.5554	-1.8	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	90.9	0.8578	0.9751	13.7	NA	±20	Average RF
Isophorone	80.0	80.5	0.572	0.5757	0.7	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	76.7	0.866	0.8306	-4.1	NA	±20	Average RF
N-Nitrosodiphenylamine	160	149	0.5588	0.5201	-6.9	NA	±20	Average RF
Naphthalene	80.0	77.0	0.9566	0.9211	-3.7	NA	±20	Average RF
Nitrobenzene	80.0	88.1	0.2882	0.3172	10.1	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	89.9	0.139	0.1562	12.4	NA	±20	Average RF
Phenanthrene	80.0	77.8	1.0043	0.9773	-2.7	NA	±20	Average RF
Phenol	80.0	80.8	1.476	1.4903	1.0	NA	±20	Average RF
Pyrene	80.0	78.3	1.1496	1.1254	-2.1	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	88.6	0.2119	0.2345	10.7	NA	±20	Average RF
2-Fluorobiphenyl	80.0	79.1	1.3988	1.3832	-1.1	NA	±20	Average RF
2-Fluorophenol	80.0	80.6	1.2423	1.2509	0.7	NA	±20	Average RF
Nitrobenzene-d5	80.0	92.6	0.2733	0.3163	15.7	NA	±20	Average RF
Phenol-d6	80.0	81.3	1.4658	1.4887	1.6	NA	±20	Average RF
Terphenyl-d14	80.0	77.7	0.8572	0.8322	-2.9	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D

**Analysis Lot:**581099

**Instrument ID:**R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\022118\BN147.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	07:54:00	
I:\ACQUDATA\5973D\Data\022118\BN147.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	07:54:00	
I:\ACQUDATA\5973D\Data\022118\BN148.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	08:30:00	
I:\ACQUDATA\5973D\Data\022118\BN148.D\Continuing Calibration Verification		RQ1801561-04	2/21/2018	08:30:00	
I:\ACQUDATA\5973D\Data\022118\BN149.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	08:58:00	
I:\ACQUDATA\5973D\Data\022118\BN150.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	09:27:00	
I:\ACQUDATA\5973D\Data\022118\BN151.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	09:55:00	
I:\ACQUDATA\5973D\Data\022118\BN152.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	10:28:00	
I:\ACQUDATA\5973D\Data\022118\BN153.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	10:56:00	
I:\ACQUDATA\5973D\Data\022118\BN154.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	11:24:00	
I:\ACQUDATA\5973D\Data\022118\BN155.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	11:52:00	
I:\ACQUDATA\5973D\Data\022118\BN156.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	12:21:00	
I:\ACQUDATA\5973D\Data\022118\BN157.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	12:49:00	
I:\ACQUDATA\5973D\Data\022118\BN158.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	13:18:00	
I:\ACQUDATA\5973D\Data\022118\BN159.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	13:46:00	
I:\ACQUDATA\5973D\Data\022118\BN160.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	14:21:00	
I:\ACQUDATA\5973D\Data\022118\BN161.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	14:54:00	
I:\ACQUDATA\5973D\Data\022118\BN162.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	15:22:00	
I:\ACQUDATA\5973D\Data\022118\BN163.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	15:51:00	
I:\ACQUDATA\5973D\Data\022118\BN164.D\Method Blank		RQ1801495-01	2/21/2018	16:19:00	
I:\ACQUDATA\5973D\Data\022118\BN165.D\Lab Control Sample		RQ1801495-02	2/21/2018	16:47:00	
I:\ACQUDATA\5973D\Data\022118\BN166.D\Duplicate Lab Control Sample		RQ1801495-03	2/21/2018	17:14:00	
I:\ACQUDATA\5973D\Data\022118\BN167.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	17:42:00	
I:\ACQUDATA\5973D\Data\022118\BN169.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/21/2018	18:38:00	
I:\ACQUDATA\5973D\Data\022118\BN171.D\TB-01 (3.0)		R1801334-001	2/21/2018	19:33:00	
I:\ACQUDATA\5973D\Data\022218\BN181.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	08:05:00	
I:\ACQUDATA\5973D\Data\022218\BN181.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	08:05:00	
I:\ACQUDATA\5973D\Data\022218\BN182.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	08:32:00	
I:\ACQUDATA\5973D\Data\022218\BN183.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	09:19:00	
I:\ACQUDATA\5973D\Data\022218\BN184.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	09:47:00	
I:\ACQUDATA\5973D\Data\022218\BN185.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	10:15:00	
I:\ACQUDATA\5973D\Data\022218\BN194.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	14:25:00	
I:\ACQUDATA\5973D\Data\022218\BN195.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	14:53:00	
I:\ACQUDATA\5973D\Data\022218\BN196.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	2/22/2018	15:21:00	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D

**Analysis Lot:**581270

**Instrument ID:**R-MS-54

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\5973D\Data\022218\BN182.D	Continuing Calibration Verification	RQ1801622-02	2/22/2018	08:32:00	
I:\ACQUDATA\5973D\Data\022218\BN187.D	TB-14 (7.0)	R1801334-007	2/22/2018	11:10:00	
I:\ACQUDATA\5973D\Data\022218\BN188.D	TB-02 (8.0)	R1801334-002	2/22/2018	11:38:00	
I:\ACQUDATA\5973D\Data\022218\BN189.D	TB-04 (2.5)	R1801334-003	2/22/2018	12:06:00	
I:\ACQUDATA\5973D\Data\022218\BN190.D	TB-18 (10.0-11.0)	R1801334-009	2/22/2018	12:34:00	
I:\ACQUDATA\5973D\Data\022218\BN191.D	TB-24 (2.5)	R1801334-014	2/22/2018	13:01:00	
I:\ACQUDATA\5973D\Data\022218\BN192.D	TB-24 (2.5) MS	RQ1801495-04	2/22/2018	13:29:00	
I:\ACQUDATA\5973D\Data\022218\BN193.D	TB-24 (2.5) DMS	RQ1801495-05	2/22/2018	13:57:00	

Analysis: 8270/625 Analyst: M.S. Vreem Run Method: 8270D /TUNE  
 Date: 2/21/18 Instr. 5973D R-MS-54 Quant Method: 8270012318D.M  
 Syringes: \_\_\_\_\_ LIMS Run#: 581099

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			BN146	-	
2	TUNE		184894	47	YT	
3	CCV		187976	48	YCC	
4	CCV	Here	187906	49	YCC	
5	RQ1801492-02	LCS	308591	50	YQ	
6	-03	LCS	8270/625	51	YQ	
7	-01-04	Blk		52	Y	
8	RQ1801492-04	LCS-NMP		53	YQ	Surr ↑
9	-05	LCS-NMP		54	YQ	
10	R1801436-001			55	Y	
11	-002			56	Y	
12	-003			57	Y	
13	-004			58	Y	
14	-005			59	Y	
15	R1801416-001			60	Y	
16	R1801380-001			61	Y	
17	R1801402-001			62	Y	
18	R1801412-001			63	Y	
19	RQ1801495-01	Blk	308593	64	Y	
20	-02	LCS	8270 501	65	YQ	
21	-03	LCS		66	YQ	
22	-005			67	Y	
23	-007	5.0		68	(N)	RPT Y10
24	-014			69	Y	
25	-015	10		70	(N)	RPT Y100
26	R1801334-001			71	Y	
27	-002			72	(N)	OUT OF TUNE
28	-003	5.0		73	↓	* dark
29	-007			74	↓	Screens
30	-009			75	↓	
31	-014			76	↓	

All samples = 1 mL + 10 uL Combined IS/Surr.; 185797

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_  
 Runlog GCEXT r2 4/27/17  
 O-967 Page 103

Analysis: 8270D  
 Date: 2/22/18  
 Syringes: \_\_\_\_\_

Analyst: Misurawicz  
 Instr. 5973D R-MS-54

Run Method: 8270D /TUNE  
 Quant Method: 8270G2318D5.M  
 LIMS Run#: 581270

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk					
2	Tune			BN180	-	
3	CCV		184894	81	Y	
4	RQ1801534-01	20 <sub>μ</sub>	187772	82	Y	CC
5		Blk	187896	83	Y	
6		LCS	345671	84	Y	Surr A
7	R1801417-016	10		85	Y	Surr A
8	R1801334-007			86	(N)	APT 1/2
9			305543	87	(N) Y	NOT Run on 2/22/18
10			82705	88	Y	
11		2.0		89	Y	
12				90	Y	*dark
13	RQ1801495-04			91	Y	
14				92	Y	0
15	R1801384-007	10		93	Y	0
16				94	Y	
17	R1801417-016	100		95	Y	
				96	Y	Surr A

AM  
2/22/18

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

All samples = 1 mL + 16 uL Combined IS/Surr.; 135797  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_



Analysis: 8270/625 Analyst: AMISVPCW.CZ Run Method: 82700/TUNE  
 Date: 1/23/18 Instr. 5973D R-MS-54 Quant Method:  
 Syringes: \_\_\_\_\_ LIMS Run#: \_\_\_\_\_

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	BLK			BNO77	-	
2	TUNE		184894	78	YT	
3	CCV		187393	79	(N)	46.D into 2 > 70%
3	CCV		↓	80	(N)	↓
4	CCV (Hexa)		184900	81	(N)	NO: RUN
2	TUNE		184894	81 <sup>DM 1/23/18</sup> 82	(N)	
2	TUNE		↓	82	(N)	adjust tune file
2	TUNE		184894	83	YT	
3	BLK			84	Y	
4	2.5 ppa STD		187471	85	Y	
5	5.0		72	86	Y	
6	10		73	87	Y	
7	50		74	88	Y	
8	80		75	89	Y	
9	100		76	90	Y	
10	120		77	91	Y	
11	160		78	92	Y	
12	ICV		79	93	YD	
13	CCV		187475	94	Y/C	
14	CCV Hexa		184900	95	Y/C	
15	R1800244-003		306535	96	Y	
16	RQ1800507-01	BLK	306818	97	Y	
17	↓ -02	LCS	(570168)	98	YD	
18	↓ -03	LCS		99	YD	
19	R1800498-000		(TICS)	100	Y	
20	↓ -013			01	Y	
21	R1800450-001			02	Y	
22	R1800415-001	10	8270/625	03	Y	
23	R1800394-001	5.0	8270/625	04	Y	
24	R1800421-001		<sup>DM</sup> 1/23/18	05	Y	
25	↓ -002			06	Y	
26	↓ -003			07	Y	
27	Solvent Check		187394	08	Y	

DM 1/24/18

All samples = 1 mL + 10 uL Combined IS/Surr.; 185797

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Runlog GCEXT r2 4/27/17  
 O-967 Page 100

ALS Group USA, Corp.  
dba ALS Environmental

Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1801334

Semivolatile Organic Compounds by GC/MS

**Prep Method:** EPA 3541  
**Analytical Method:** 8270D

**Extraction Lot:**308593

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
TB-01 (3.0)	R1801334-001	2/12/18	2/14/18	30.4600 g	1 mL	82.8
TB-02 (8.0)	R1801334-002	2/12/18	2/14/18	30.2800 g	1 mL	63.9
TB-04 (2.5)	R1801334-003	2/12/18	2/14/18	30.1600 g	1 mL	90.6
TB-14 (7.0)	R1801334-007	2/13/18	2/14/18	30.3000 g	1 mL	78.0
TB-18 (10.0-11.0)	R1801334-009	2/13/18	2/14/18	30.0300 g	1 mL	82.9
TB-24 (2.5)	R1801334-014	2/13/18	2/14/18	30.2100 g	1 mL	88.7
Method Blank	RQ1801495-01MB	NA	NA	30.0 g	1 mL	
Lab Control Sample	RQ1801495-02LCS	NA	NA	30.0 g	1 mL	
Duplicate Lab Control Sample	RQ1801495-03DLCS	NA	NA	30.0 g	1 mL	
Matrix Spike	RQ1801495-04MS	2/13/18	2/14/18	30.1900 g	1 mL	88.7
Duplicate Matrix Spike	RQ1801495-05DMS	2/13/18	2/14/18	30.2100 g	1 mL	88.7

# Preparation Information Benchsheet

Prep Run#: 308593

Team: Semivoc GCMS/DMURPHY

Prep WorkFlow: OrgExtS(14)

Prep Method: EPA 3541

Status: Prepped

Prep Date/Time: 2/20/18 08:00 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801495-01	MB		30.0g	8270D/SVO				1.00mL	sand	1.0000 mL/187974	
2	RQ1801495-02	LCS		30.0g	8270D/SVO				1.00mL	sand	1.0000 mL/187974; 1.0000 mL/187635; 1.0000 mL/188035	
3	RQ1801495-03	DLCS		30.0g	8270D/SVO				1.00mL	sand	1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035	
4	R1801334-001	TB-01 (3.0)	.01	30.4600g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
5	R1801334-002	TB-02 (8.0)	.01	30.2800g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
6	R1801334-003	TB-04 (2.5)	.01	30.1600g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
7	R1801334-007	TB-14 (7.0)	.02	30.3000g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
8	R1801334-009	TB-18 (10.0-11.0)	.01	30.0300g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
9	R1801334-014	TB-24 (2.5)	.01	30.2100g	8270D/SVO				1.00mL	red-brown-coarse	1.0000 mL/187974	
10	RQ1801495-04	R1801334-014 MS	.01	30.1900g	8270D/SVO				1.00mL	red-brown-coarse	1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035	
11	RQ1801495-05	R1801334-014 DMS	.01	30.2100g	8270D/SVO				1.00mL	red-brown-coarse	1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035	
12	R1801384-005	TB-4 (2.5-3.5)	.01	30.0g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
13	R1801384-007	TB-5 (2-3)	.01	30.1400g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
14	R1801384-014	TB-9 (13-14)	.01	30.4600g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
15	R1801384-015	TB-10 (7-8)	.01	30.3000g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	

### Spiking Solutions

Name: 8270 LCS-NSI Inventory ID 187635 Logbook Ref: Expires On: 06/30/2018 Lot #: 122017  
 Name: 8270 Soil Surrogate 100-200ppm Inventory ID 187974 Logbook Ref: Expires On: 08/11/2018  
 Name: OLM/SOM additional Spike 100ppm Inventory ID 188035 Logbook Ref: Expires On: 06/09/2018

### Preparation Materials

Boiling Stones PTFE (184384)  
 50:50 Dichloromethane:Acetone (188038)  
 Eppendorf Pipette Repeater EXT #18 (184837)  
 Prepared Sodium Sulfate (188011)  
 Na2SO4  
 2mL Graduated Vials (187354)  
 Sand Reagent Grade (187622)

### Preparation Steps

Step: Extraction Concentration Step: Extraction Complete  
 Started: 2/20/18 08:00 Started: 2/21/18 10:57  
 Finished: 2/20/18 12:45 Finished: 2/21/18 10:57  
 By: DMURPHY By: DMURPHY  
 Comments Comments

# Preparation Information Benchsheet

Prep Run#: 308593  
Team: Semivoa GCMS/DMURPHY

Prep WorkFlow: OrgExtS(14)  
Prep Method: EPA 3541

Status: Prepped  
Prep Date/Time: 2/20/18 08:00 AM

Comments:

Reviewed By:  Date: 2/21/18

Spike Witness: MPEDRO

Date:

Chain of Custody

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Extracts Examined  
Yes No



## Semivolatile Organic Compounds by GC

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35

**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

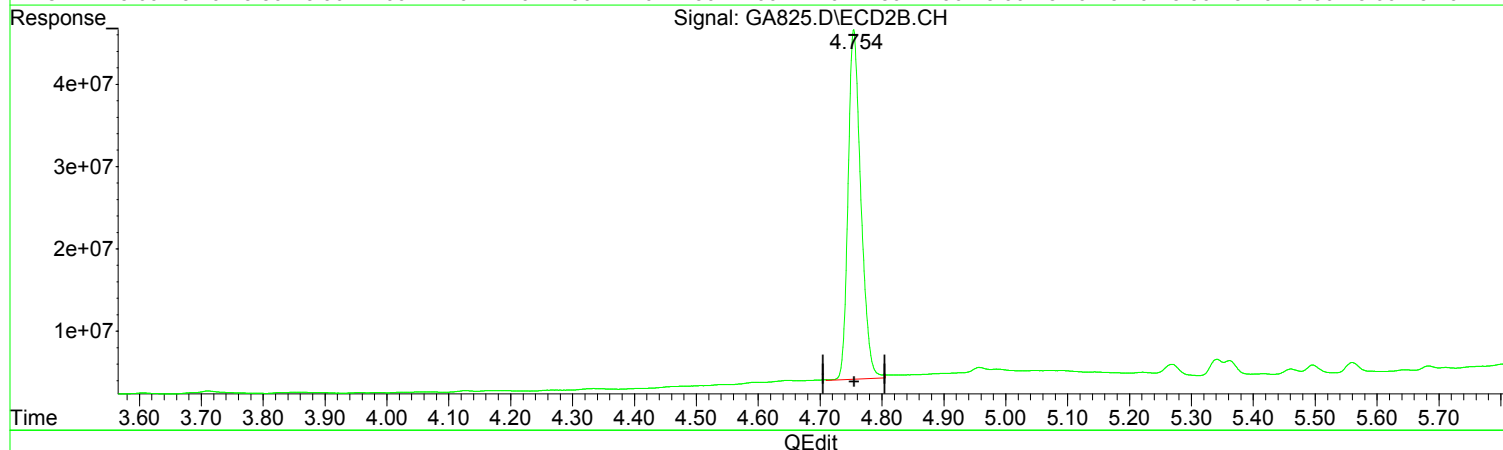
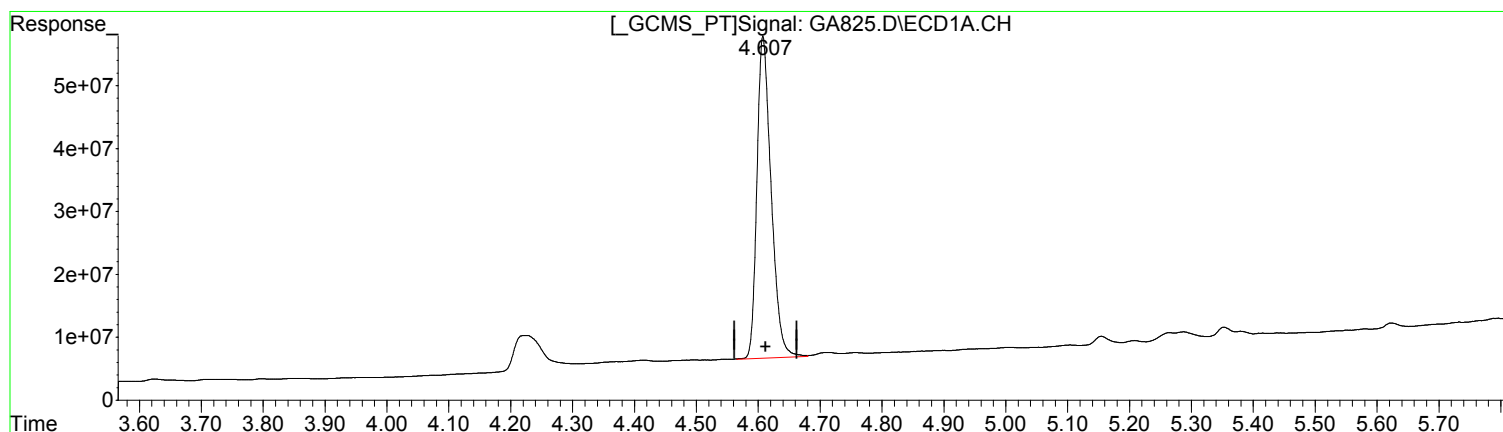
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	42 U	42	22	1	02/21/18 15:24	2/20/18	
Aroclor 1221	85 U	85	43	1	02/21/18 15:24	2/20/18	
Aroclor 1232	42 U	42	25	1	02/21/18 15:24	2/20/18	
Aroclor 1242	42 U	42	22	1	02/21/18 15:24	2/20/18	
Aroclor 1248	42 U	42	33	1	02/21/18 15:24	2/20/18	
Aroclor 1254	42 U	42	24	1	02/21/18 15:24	2/20/18	
Aroclor 1260	42 U	42	22	1	02/21/18 15:24	2/20/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	22 - 128	02/21/18 15:24	
Tetrachloro-m-xylene	32	14 - 119	02/21/18 15:24	

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA825.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 3:24 pm  
Operator : M.Pedro  
Sample : R1801334-007  
Misc : 308592  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:15 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.607min 32.385 ug/l m  
response 816173504

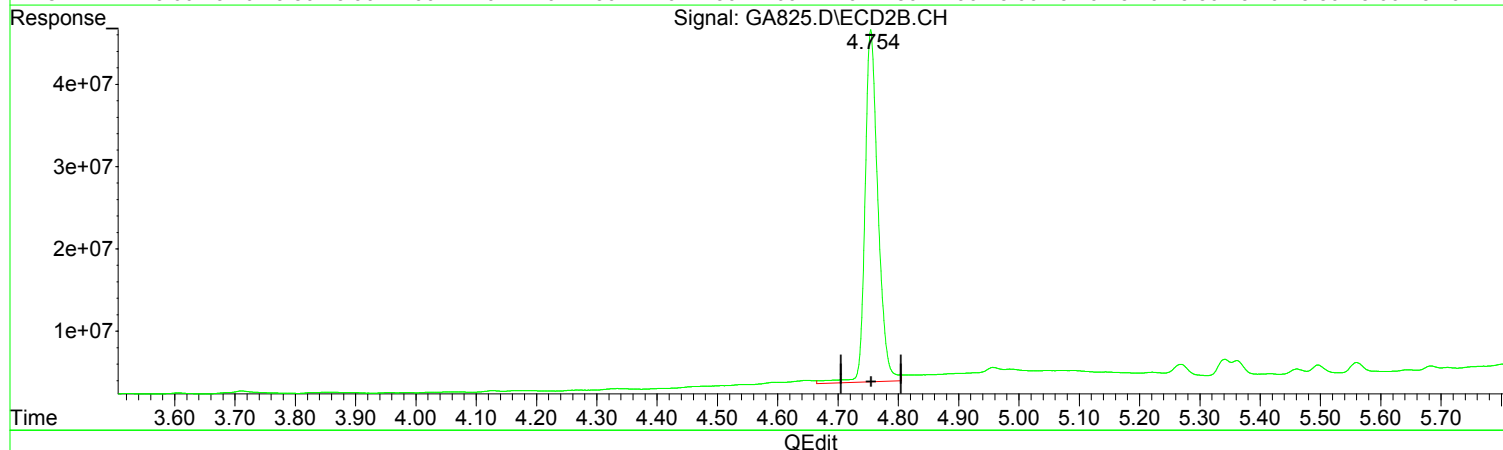
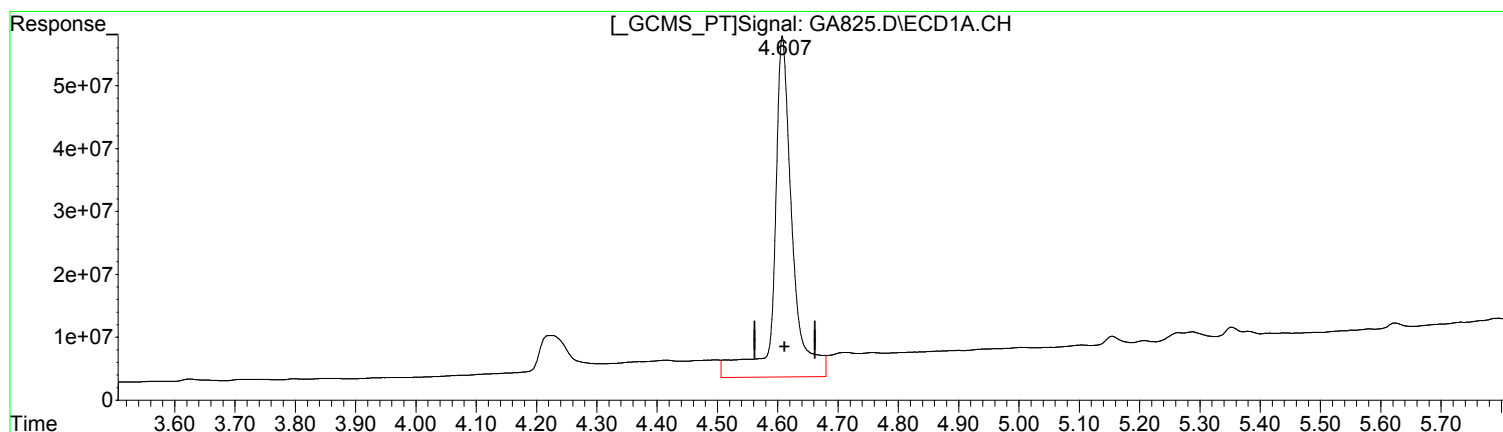
(1) SURR1, TCMX #2 (S)  
4.754min 32.255 ug/l m  
response 611434910

Manual Integration:  
After  
Poor integration.  
02/22/18

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA825.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 3:24 pm  
Operator : M.Pedro  
Sample : R1801334-007  
Misc : 308592  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:15 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.608min 44.609 ug/l  
response 1124240728

(1) SURR1, TCMX #2 (S)  
4.754min 33.640 ug/l  
response 637692425

Manual Integration:  
Before  
02/22/18



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA825.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 3:24 pm  
 Operator : M.Pedro  
 Sample : R1801334-007  
 Misc : 308592  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 22 09:01:15 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Feb 22 09:00:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

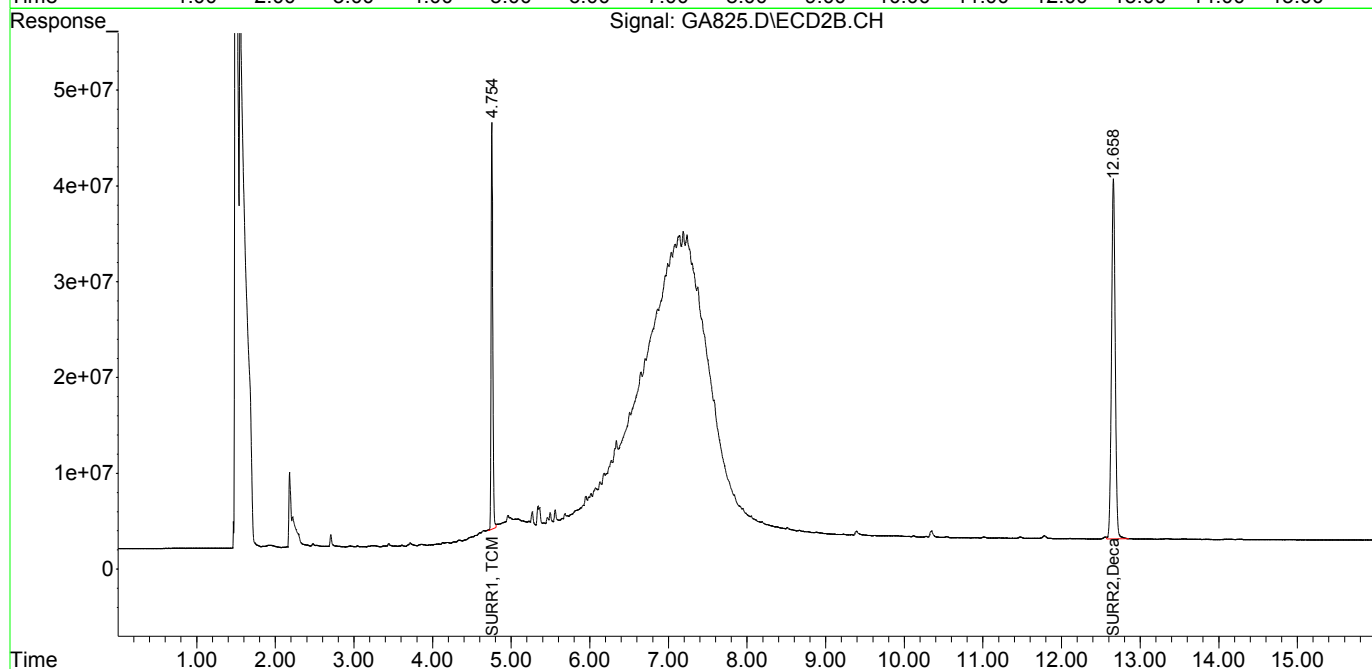
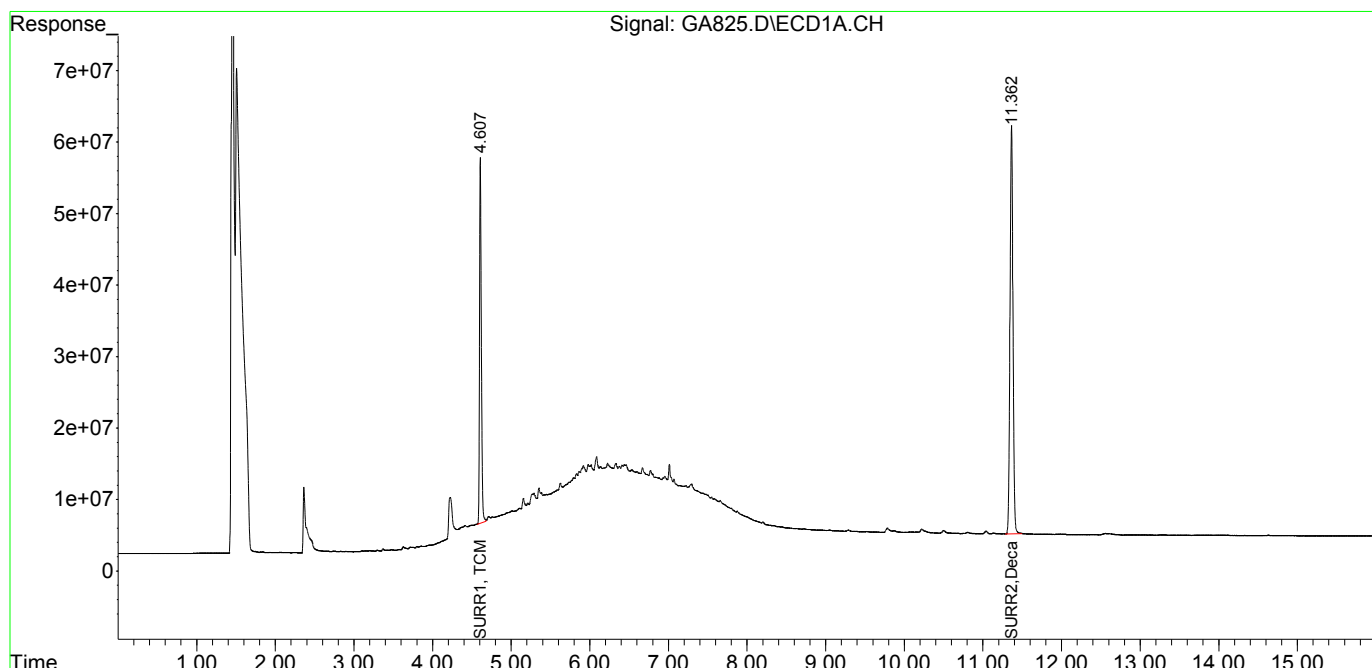
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.607	4.754	816.2E6	611.4E6	32.385m	32.255m
Spiked Amount	100.000	Range	30 - 150	Recovery	= 32.38%	32.26%
2) S SURR2, Dec...	11.363	12.658	1496.5E6	1235.8E6	73.544	75.277
Spiked Amount	100.000	Range	30 - 150	Recovery	= 73.54%	75.28%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA825.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 3:24 pm  
Operator : M.Pedro  
Sample : R1801334-007  
Misc : 308592  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:15 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA822.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 2:25 pm  
 Operator : M.Pedro  
 Sample : RQ1801494-01  
 Misc : 308592  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 22 09:01:02 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Feb 22 09:00:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

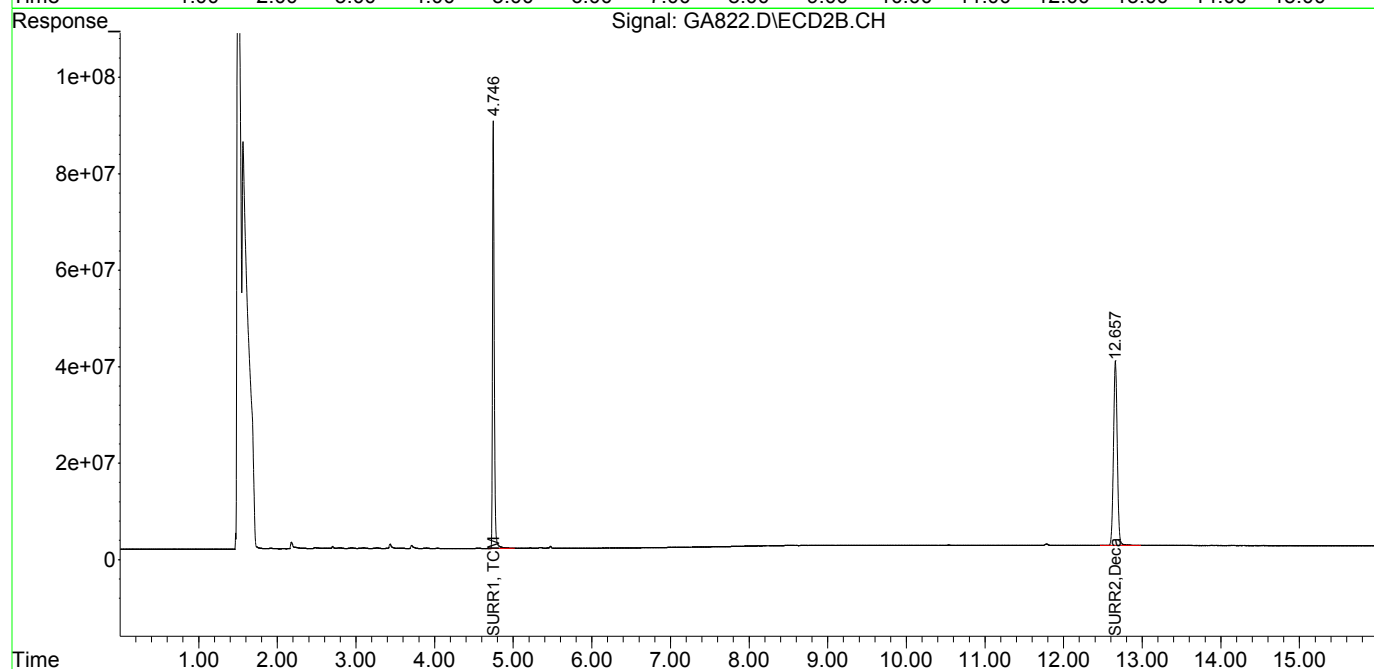
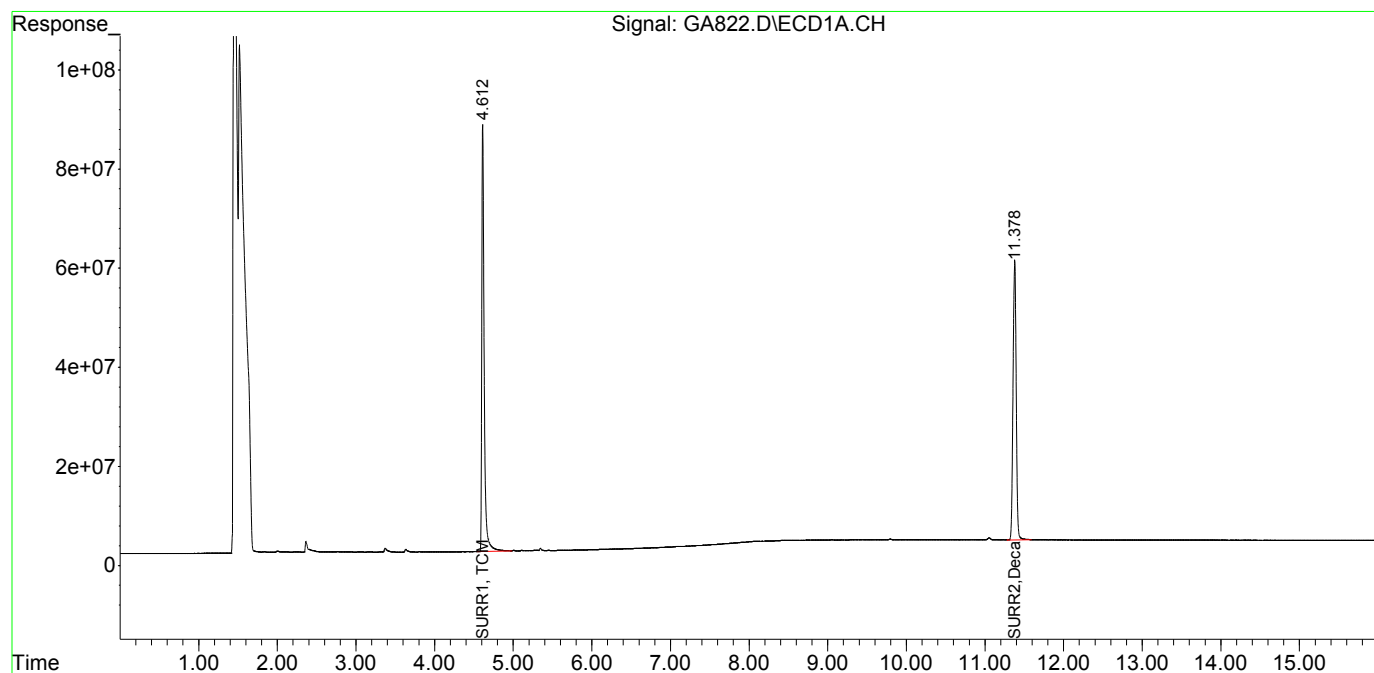
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.612	4.747	1817.9E6	1336.5E6	72.132	70.503
Spiked Amount	100.000	Range	30 - 150	Recovery =	72.13%	70.50%
2) S SURR2, Dec...	11.378	12.658	1580.7E6	1277.4E6	77.682	77.807
Spiked Amount	100.000	Range	30 - 150	Recovery =	77.68%	77.81%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA822.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 2:25 pm  
Operator : M.Pedro  
Sample : RQ1801494-01  
Misc : 308592  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

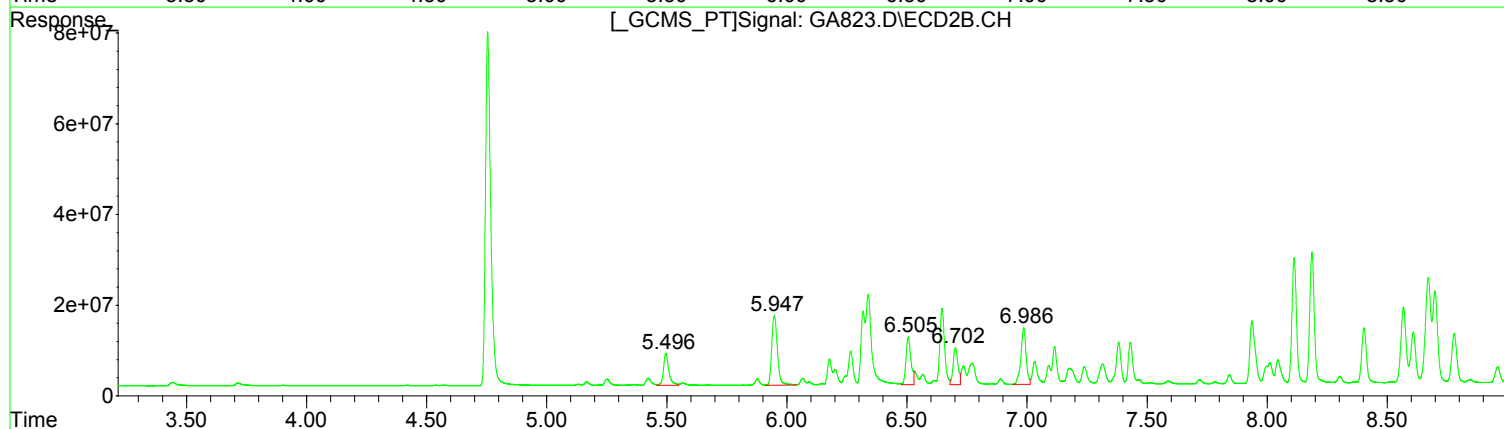
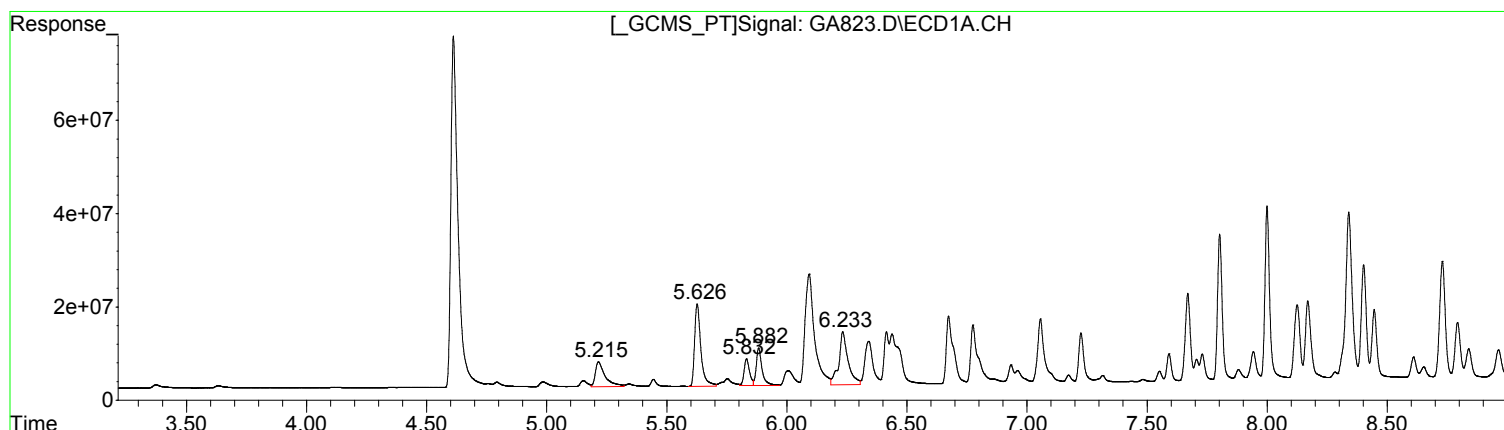
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA823.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 2:45 pm  
Operator : M.Pedro  
Sample : RQ1801494-02  
Misc : 308592  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:07 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	150719087	317.17
5.63	319559885	328.59
5.83	91451426	334.53
5.88	135998379	330.47
6.23	302987093	335.91

(3) PCB 1016 #2 (L1c)

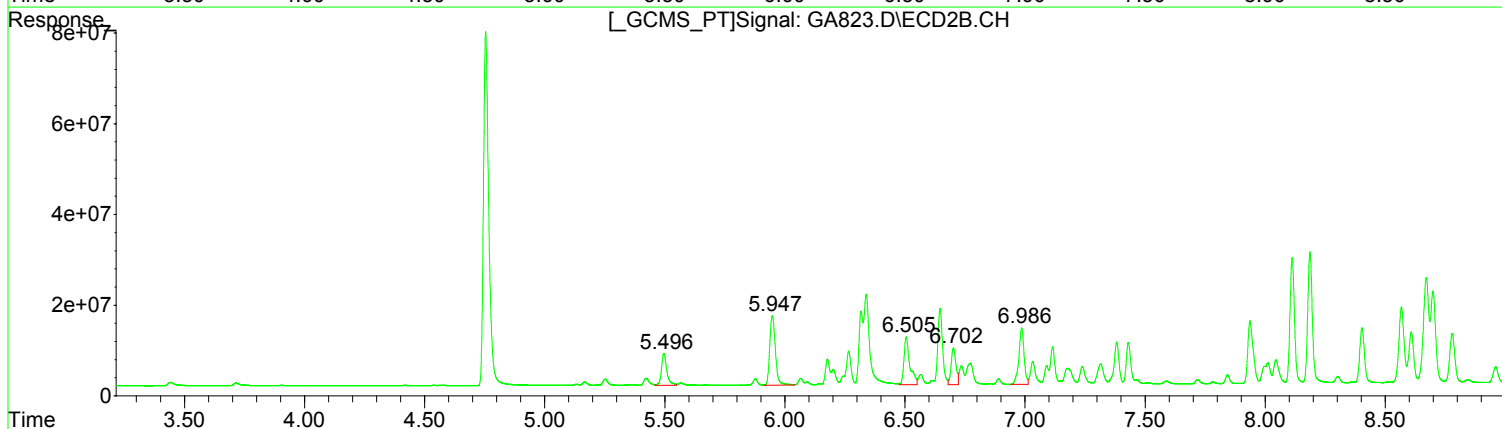
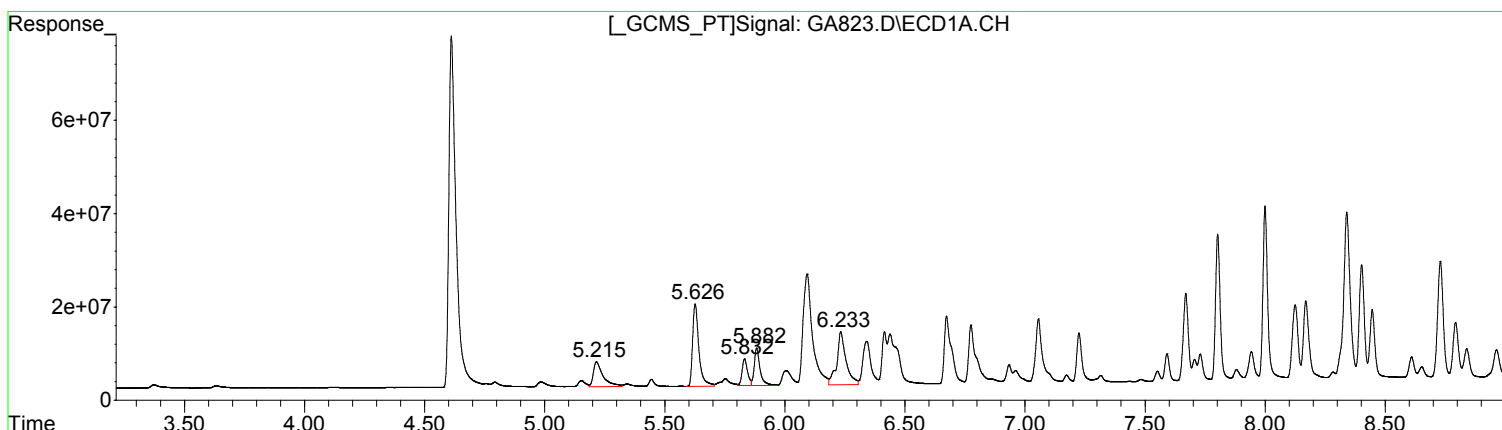
R.T.	Response	Conc
5.50	108537575	329.86
5.95	251024530	330.12
6.51	150857974	317.60
6.70	111788608	345.92
6.99	188316810	341.90

Manual Integration:  
After  
Poor integration.  
02/22/18

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA823.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 2:45 pm  
Operator : M.Pedro  
Sample : RQ1801494-02  
Misc : 308592  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:07 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	150719087	317.17
5.63	319559885	328.59
5.83	91451426	334.53
5.88	135998379	330.47
6.23	302987093	335.91

Manual Integration:  
Before  
02/22/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	108537575	329.86
5.95	251024530	330.12
6.51	178593435	375.99
6.70	111788608	345.92
6.99	188316810	341.90

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA823.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 2:45 pm  
 Operator : M.Pedro  
 Sample : RQ1801494-02  
 Misc : 308592  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 22 09:01:07 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Feb 22 09:00:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.612	4.755	1584.4E6	1201.4E6	62.869	63.378
Spiked Amount	100.000	Range	30 - 150	Recovery =	62.87%	63.38%
2) S SURR2, Dec...	11.367	12.661	1466.4E6	1179.9E6	72.065	71.872
Spiked Amount	100.000	Range	30 - 150	Recovery =	72.06%	71.87%
Target Compounds						
3) L1c PCB 1016	5.216	5.496	150.7E6	108.5E6	317.172	329.857
4) L1c PCB 1016{2}	5.627	5.948	319.6E6	251.0E6	328.591	330.120
5) L1c PCB 1016{3}	5.832	6.505	91451426	150.9E6	334.529	317.598m
6) L1c PCB 1016{4}	5.883	6.702	136.0E6	111.8E6	330.465	345.916
7) L1c PCB 1016{5}	6.233	6.987	303.0E6	188.3E6	335.910	341.903
Sum PCB 1016			1000.7E6	810.5E6	1646.666	1665.394
Average PCB 1016					329.333	333.079
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.187	431.2E6	397.5E6	337.440	333.285
34) L7c PCB 1260{2}	8.000	9.164	530.2E6	330.1E6	334.962	453.660 #
35) L7c PCB 1260{3}	8.730	9.327	417.7E6	682.5E6	375.842	393.001
36) L7c PCB 1260{4}	9.046	10.059	805.3E6	361.9E6	388.408	373.352
37) L7c PCB 1260{5}	10.483	10.934	219.0E6	258.1E6	434.648	424.575
Sum PCB 1260			2403.5E6	2030.0E6	1871.299	1977.873
Average PCB 1260					374.260	395.575
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

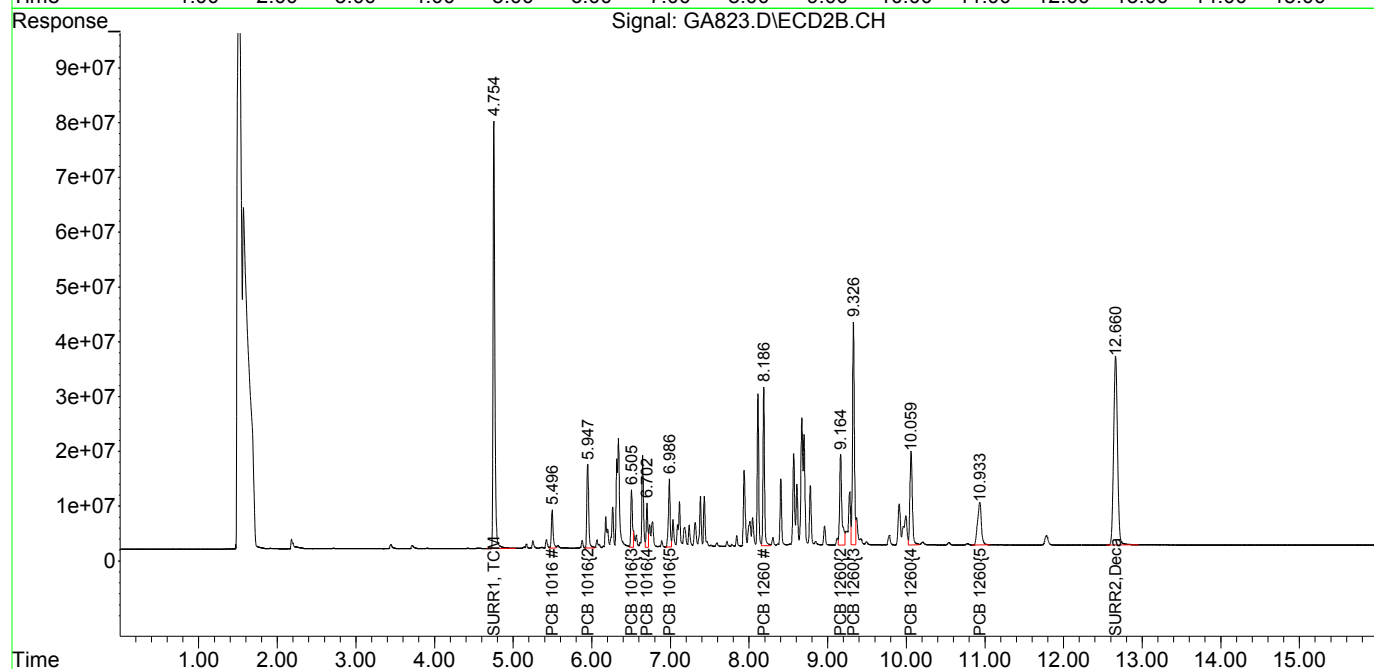
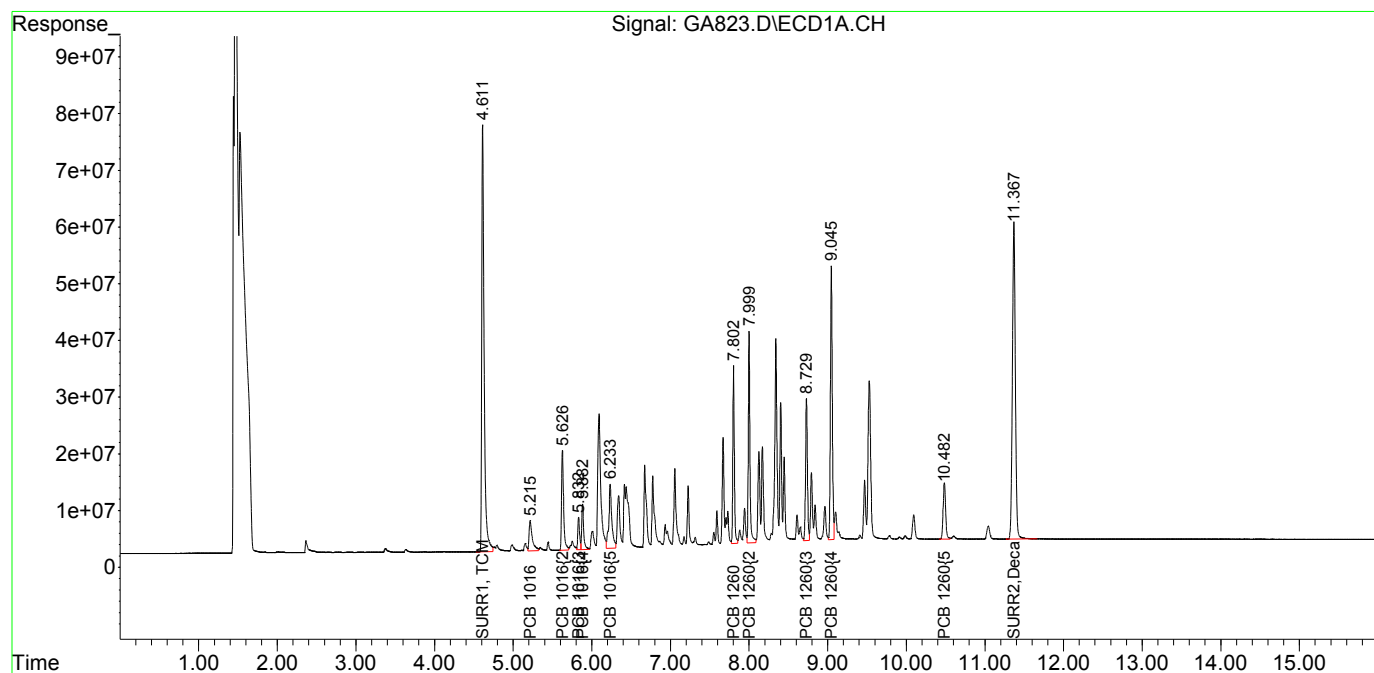




Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA823.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 2:45 pm  
Operator : M.Pedro  
Sample : RQ1801494-02  
Misc : 308592  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:07 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

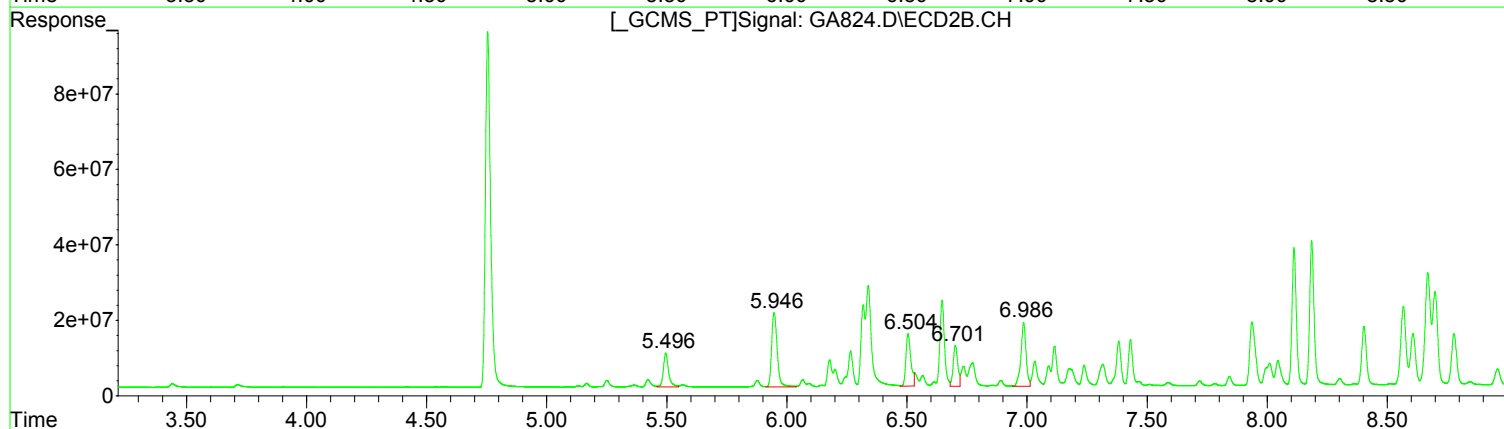
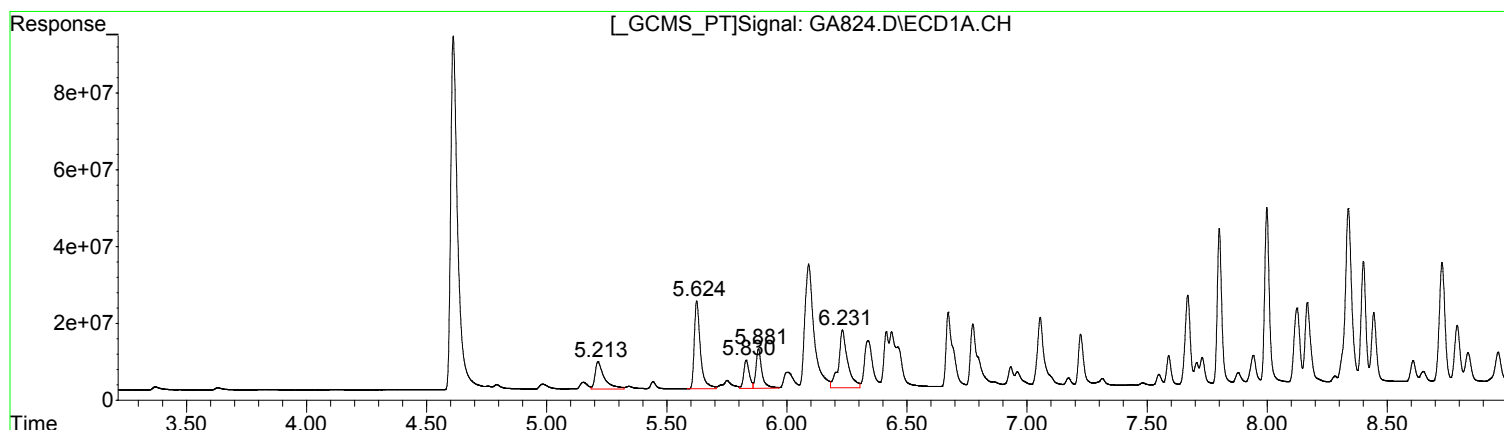
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA824.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 3:04 pm  
Operator : M.Pedro  
Sample : RQ1801494-03  
Misc : 308592  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:11 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	191254807	402.47
5.62	401780624	413.13
5.83	119066061	435.54
5.88	174556604	424.16
6.23	399485391	442.89

(3) PCB 1016 #2 (L1c)

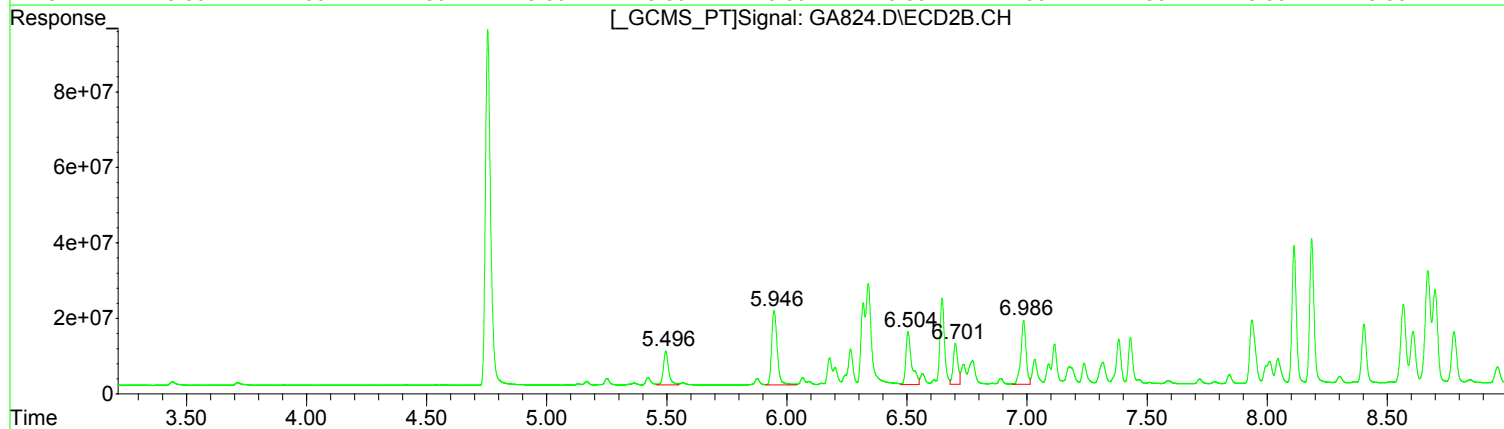
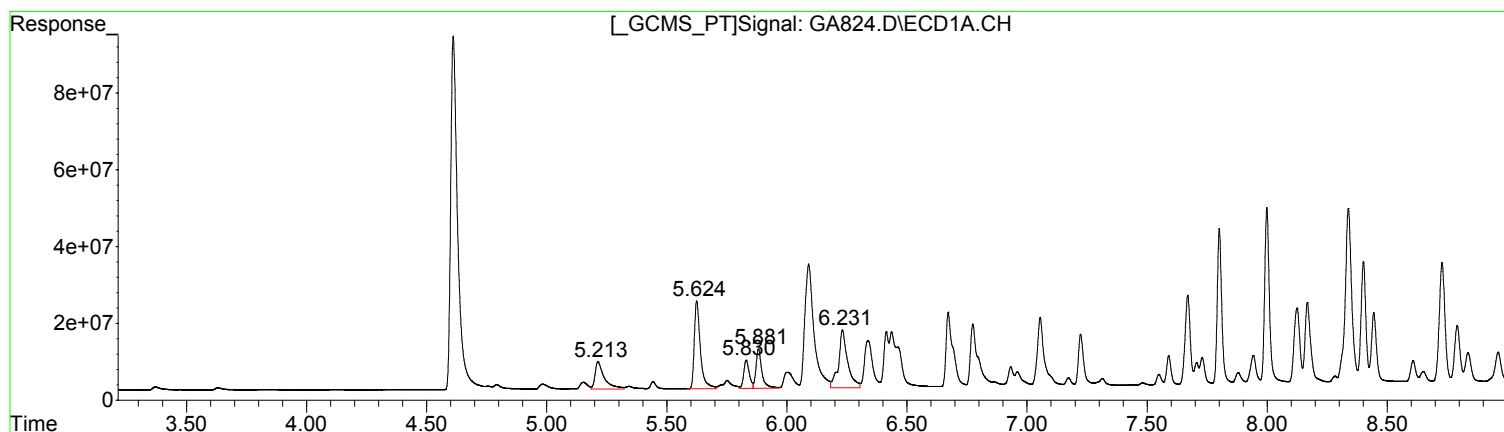
R.T.	Response	Conc
5.50	136030246	413.41
5.95	315996049	415.56
6.50	201693374	424.62
6.70	144545085	447.28
6.99	251126802	455.94

Manual Integration:  
After  
Poor integration.  
02/22/18

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA824.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 3:04 pm  
Operator : M.Pedro  
Sample : RQ1801494-03  
Misc : 308592  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:11 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	191254807	402.47
5.62	401780624	413.13
5.83	119066061	435.54
5.88	174556604	424.16
6.23	399485391	442.89

Manual Integration:  
Before  
02/22/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	136030246	413.41
5.95	315996049	415.56
6.50	234711043	494.13
6.70	144545085	447.28
6.99	251126802	455.94

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA824.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 3:04 pm  
 Operator : M.Pedro  
 Sample : RQ1801494-03  
 Misc : 308592  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 22 09:01:11 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Feb 22 09:00:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.755	1882.6E6	1430.8E6	74.701	75.478
Spiked Amount	100.000	Range	30 - 150	Recovery	= 74.70%	75.48%
2) S SURR2, Dec...	11.364	12.659	1797.0E6	1479.7E6	88.311	90.131
Spiked Amount	100.000	Range	30 - 150	Recovery	= 88.31%	90.13%
Target Compounds						
3) L1c PCB 1016	5.214	5.496	191.3E6	136.0E6	402.475	413.410
4) L1c PCB 1016{2}	5.625	5.947	401.8E6	316.0E6	413.135	415.564
5) L1c PCB 1016{3}	5.831	6.504	119.1E6	201.7E6	435.543	424.621m
6) L1c PCB 1016{4}	5.882	6.702	174.6E6	144.5E6	424.159	447.277
7) L1c PCB 1016{5}	6.232	6.986	399.5E6	251.1E6	442.894	455.939
Sum PCB 1016			1286.1E6	1049.4E6	2118.205	2156.810
Average PCB 1016					423.641	431.362
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.801	8.185	548.0E6	501.4E6	428.766	420.369
34) L7c PCB 1260{2}	7.999	9.162	673.1E6	352.7E6	425.289	484.826
35) L7c PCB 1260{3}	8.728	9.326	535.4E6	860.1E6	481.717	495.279
36) L7C PCB 1260{4}	9.044	10.060	1032.0E6	456.8E6	497.746	471.282
37) L7C PCB 1260{5}	10.478	10.933	276.9E6	330.3E6	549.543	543.453
Sum PCB 1260			3065.4E6	2501.3E6	2383.061	2415.209
Average PCB 1260					476.612	483.042
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

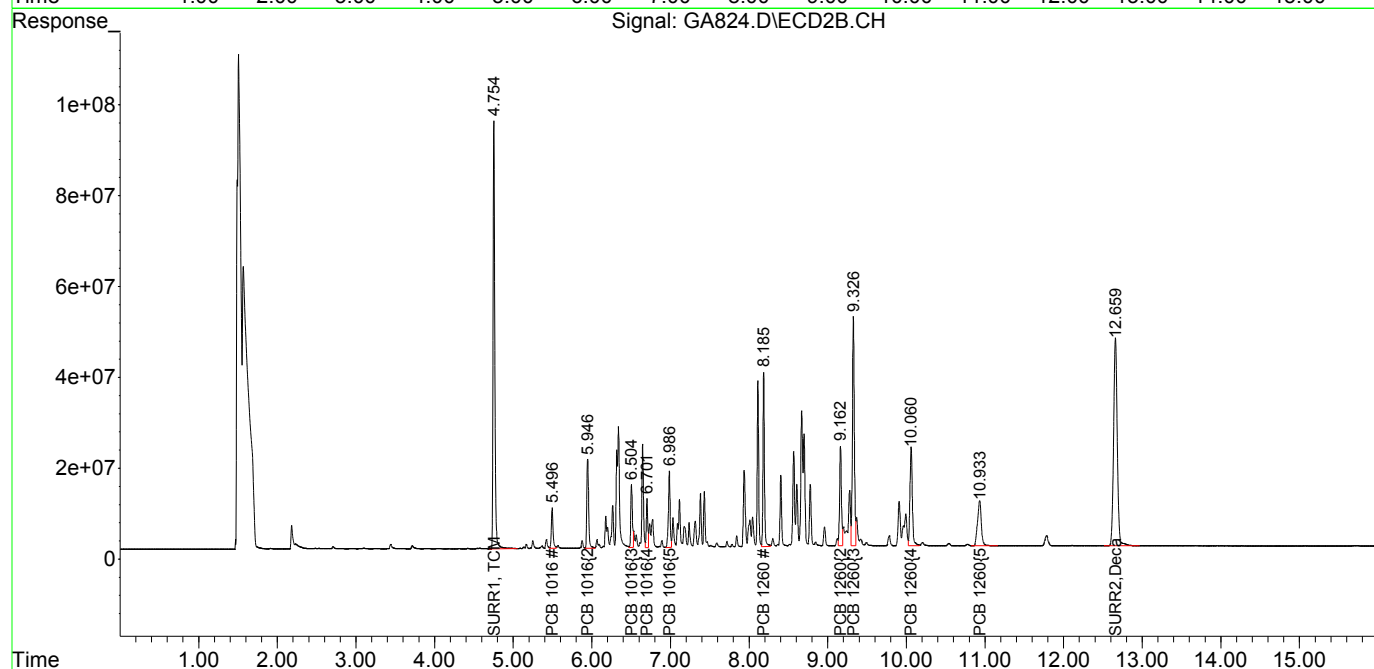
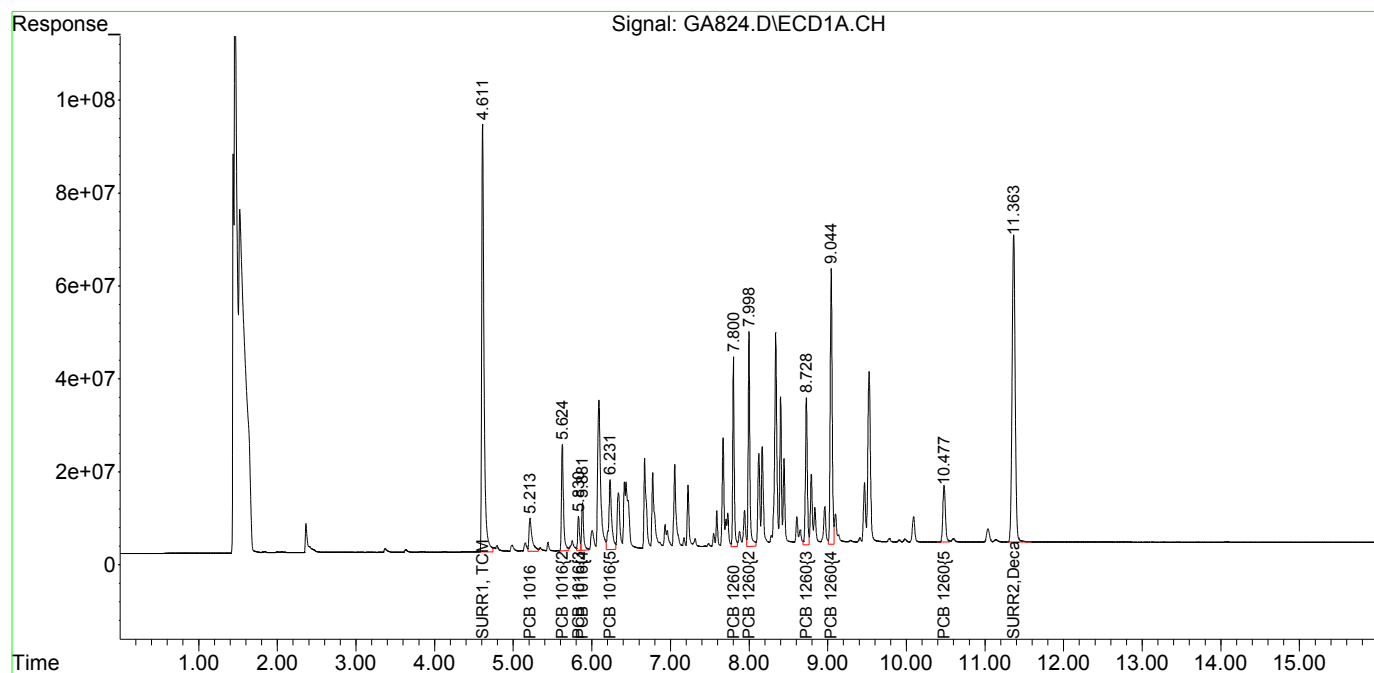
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA824.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 3:04 pm  
Operator : M.Pedro  
Sample : RQ1801494-03  
Misc : 308592  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:11 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

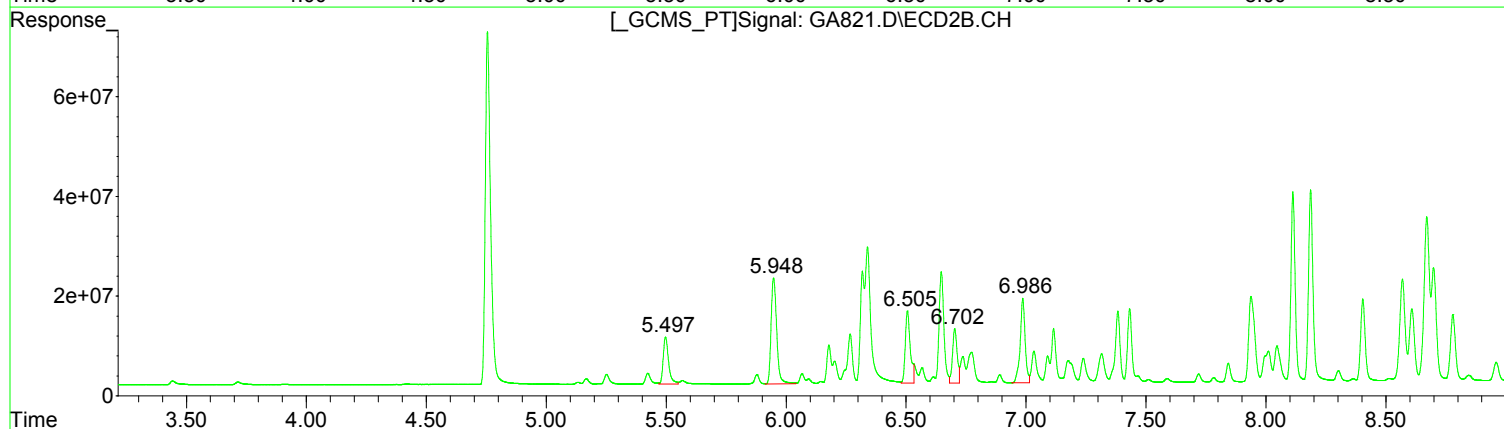
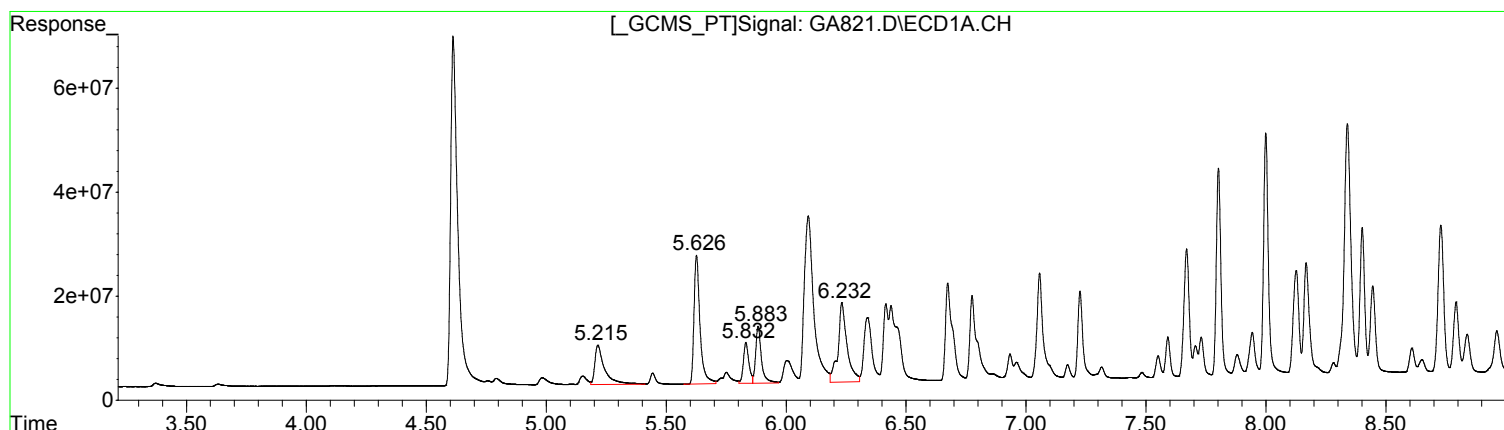
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA821.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 1:26 pm  
Operator : M.Pedro  
Sample : CCV56  
Misc : AR1660M  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 21 14:20:06 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Wed Feb 14 07:39:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	216816768	456.27
5.63	432002264	444.21
5.83	124398295	455.05
5.88	182724816	444.01
6.23	401873032	445.54

Manual Integration:  
After  
Poor integration.  
02/22/18

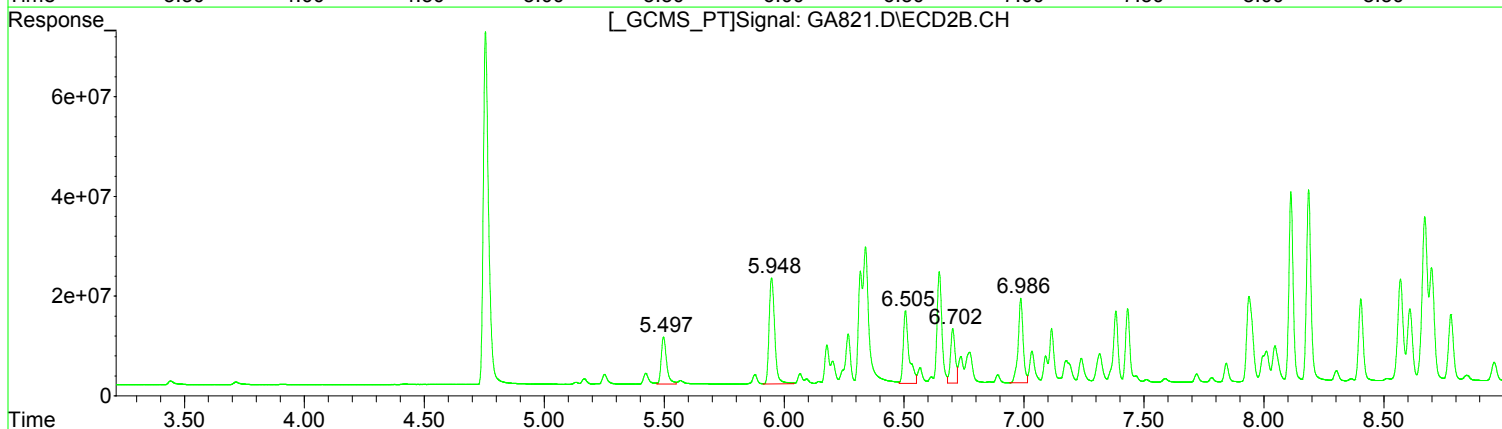
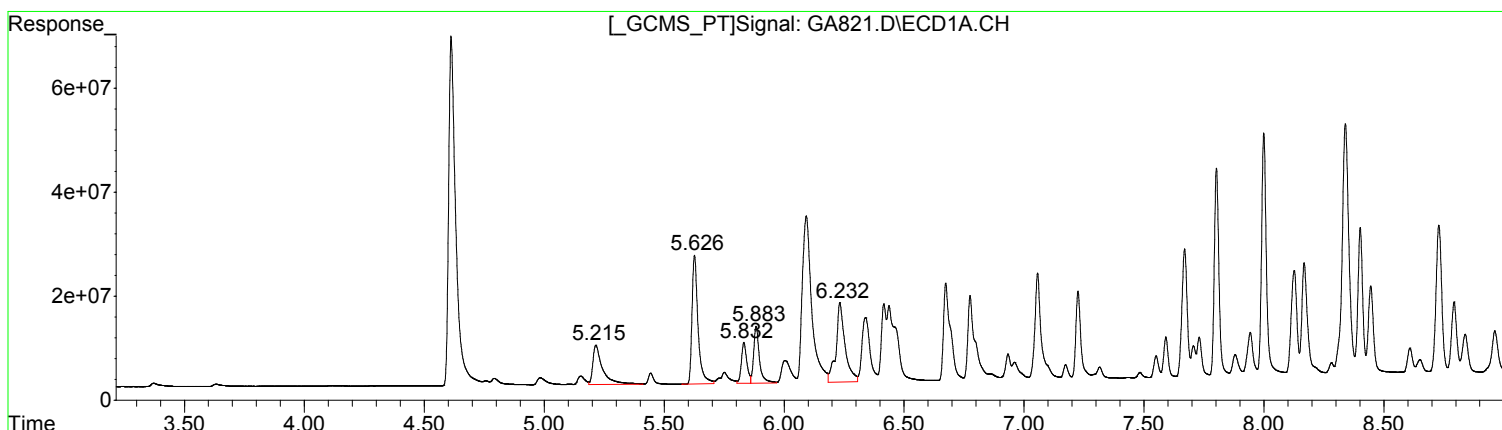
(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	147265683	447.56
5.95	344066242	452.48
6.51	210752499	443.69
6.70	147595291	456.72
6.99	244601158	444.09

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA821.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 1:26 pm  
Operator : M.Pedro  
Sample : CCV56  
Misc : AR1660M  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 21 14:20:06 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Wed Feb 14 07:39:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	216816768	456.27
5.63	432002264	444.21
5.83	124398295	455.05
5.88	182724816	444.01
6.23	401873032	445.54

Manual Integration:  
Before  
02/22/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	147265683	447.56
5.95	344066242	452.48
6.51	240332795	505.97
6.70	147595291	456.72
6.99	244601158	444.09



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA821.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 1:26 pm  
Operator : M.Pedro  
Sample : CCV56  
Misc : AR1660M  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 21 14:20:06 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Wed Feb 14 07:39:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1, TCMX	25.202	23.609 E6	6.3	92	0.00
2 S SURR2,Decachlorobiphenyl	20.348	17.535 E6	13.8	89	0.00
3 L1c PCB 1016	475.197	433.634 E3	8.7	88	0.00
4 L1c PCB 1016{2}	972.517	864.005 E3	11.2	91	0.00
5 L1c PCB 1016{3}	273.374	248.797 E3	9.0	89	0.00
6 L1c PCB 1016{4}	411.536	365.450 E3	11.2	89	0.00
7 L1c PCB 1016{5}	901.988	803.746 E3	10.9	89	0.00
33 L7c PCB 1260	1.278	1.099 E6	14.0	89	0.00
34 L7c PCB 1260{2}	1.583	1.357 E6	14.3	91	0.00
35 L7c PCB 1260{3}	1.112	0.974 E6	12.4	89	0.00
36 L7C PCB 1260{4}	2.073	1.825 E6	12.0	89	0.00
37 L7C PCB 1260{5}	503.843	439.711 E3	12.7	88	0.00

Signal #2

1 S SURR1, TCMX	18.956	18.228 E6	3.8	95	0.00
2 S SURR2,Decachlorobiphenyl	16.417	14.279 E6	13.0	91	-0.02
3 L1c PCB 1016	329.045	294.531 E3	10.5	92	0.00
4 L1c PCB 1016{2}	760.403	688.132 E3	9.5	94	0.00
5 L1c PCB 1016{3}	474.996	421.505 E3	11.3	95	0.00
6 L1c PCB 1016{4}	323.167	295.191 E3	8.7	94	0.00
7 L1c PCB 1016{5}	550.791	489.202 E3	11.2	91	0.00
33 L7c PCB 1260	1.193	1.030 E6	13.7	90	0.00
34 L7c PCB 1260{2}	727.528	627.802 E3	13.7	88	-0.01
35 L7c PCB 1260{3}	1.737	1.555 E6	10.5	90	0.00
36 L7C PCB 1260{4}	969.249	860.461 E3	11.2	90	-0.01
37 L7C PCB 1260{5}	607.788	535.614 E3	11.9	90	-0.02

Evaluate Continuing Calibration Report - Not Found

8 L2c PCB 1221	197.459	0.000 E3	100.0#	0#	-4.11#
9 L2c PCB 1221{2}	285.978	0.000 E3	100.0#	0#	-4.98#
10 L2c PCB 1221{3}	160.087	0.000 E3	100.0#	0#	-5.15#
11 L2c PCB 1221{4}	724.108	0.000 E3	100.0#	0#	-5.21#
12 L2c PCB 1221{5}	97.921	0.000 E3	100.0#	0#	-5.63#
13 L3c PCB 1232	674.110	0.000 E3	100.0#	0#	-5.21#
14 L3c PCB 1232{2}	508.886	0.000 E3	100.0#	0#	-5.63#
15 L3c PCB 1232{3}	1012.977	0.000 E3	100.0#	0#	-6.09#
16 L3c PCB 1232{4}	475.434	0.000 E3	100.0#	0#	-6.24#
17 L3c PCB 1232{5}	400.159	0.000 E3	100.0#	0#	-6.68#
18 L4c PCB 1242	401.075	0.000 E3	100.0#	0#	-5.22#
19 L4c PCB 1242{2}	337.772	0.000 E3	100.0#	0#	-5.88#
20 L4c PCB 1242{3}	1.605	0.000 E6	100.0#	0#	-6.09#
21 L4c PCB 1242{4}	719.522	0.000 E3	100.0#	0#	-6.68#

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA821.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 1:26 pm  
Operator : M.Pedro  
Sample : CCV56  
Misc : AR1660M  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 21 14:20:06 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Wed Feb 14 07:39:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
22 L4c PCB 1242{5}	672.438	0.000 E3	100.0#	0#	-6.78#
23 L5c PCB 1248	424.760	0.000 E3	100.0#	0#	-5.63#
24 L5c PCB 1248{2}	1.044	0.000 E6	100.0#	0#	-6.09#
25 L5c PCB 1248{3}	366.283	0.000 E3	100.0#	0#	-6.23#
26 L5c PCB 1248{4}	1.120	0.000 E6	100.0#	0#	-6.67#
27 L5c PCB 1248{5}	941.084	0.000 E3	100.0#	0#	-6.78#
28 L6c PCB 1254	490.748	0.000 E3	100.0#	0#	-7.49#
29 L6c PCB 1254{2}	763.463	0.000 E3	100.0#	0#	-7.55#
30 L6c PCB 1254{3}	1.654	0.000 E6	100.0#	0#	-7.66#
31 L6c PCB 1254{4}	873.666	0.000 E3	100.0#	0#	-7.81#
32 L6c PCB 1254{5}	427.264	0.000 E3	100.0#	0#	-8.72#
38 L8C PCB 1268	589.119	0.000 E3	100.0	0#	-8.40#
39 L8C PCB 1268{2}	736.470	0.000 E3	100.0	0#	-8.66#
40 L8C PCB 1268{3}	2.552	0.000 E6	100.0	0#	-9.79#
41 L8C PCB 1268{4}	661.760	0.000 E3	100.0	0#	-9.91#
42 L8C PCB 1268{5}	1.144	0.000 E6	100.0	0#	-10.49#
43 L9C PCB 1262	604.709	0.000 E3	100.0	0#	-7.67#
44 L9C PCB 1262{2}	871.669	0.000 E3	100.0	0#	-7.80#
45 L9C PCB 1262{3}	1.387	0.000 E6	100.0	0#	-8.40#
46 L9C PCB 1262{4}	1.928	0.000 E6	100.0	0#	-9.54#
47 L9C PCB 1262{5}	892.998	0.000 E3	100.0	0#	-10.49#

Signal #2

8 L2c PCB 1221	145.482	0.000 E3	100.0#	0#	-4.42#
9 L2c PCB 1221{2}	219.036	0.000 E3	100.0#	0#	-5.25#
10 L2c PCB 1221{3}	140.879	0.000 E3	100.0#	0#	-5.42#
11 L2c PCB 1221{4}	436.978	0.000 E3	100.0#	0#	-5.50#
12 L2c PCB 1221{5}	81.306	0.000 E3	100.0#	0#	-5.57#
13 L3c PCB 1232	120.503	0.000 E3	100.0#	0#	-5.42#
14 L3c PCB 1232{2}	419.131	0.000 E3	100.0#	0#	-5.50#
15 L3c PCB 1232{3}	420.034	0.000 E3	100.0#	0#	-5.95#
16 L3c PCB 1232{4}	227.113	0.000 E3	100.0#	0#	-7.25#
17 L3c PCB 1232{5}	278.810	0.000 E3	100.0#	0#	-7.31#
18 L4c PCB 1242	272.153	0.000 E3	100.0#	0#	-5.50#
19 L4c PCB 1242{2}	608.768	0.000 E3	100.0#	0#	-5.95#
20 L4c PCB 1242{3}	460.575	0.000 E3	100.0#	0#	-6.99#
21 L4c PCB 1242{4}	494.819	0.000 E3	100.0#	0#	-7.31#
22 L4c PCB 1242{5}	415.255	0.000 E3	100.0#	0#	-7.59#
23 L5c PCB 1248	324.905	0.000 E3	100.0#	0#	-5.95#
24 L5c PCB 1248{2}	641.593	0.000 E3	100.0#	0#	-6.65#
25 L5c PCB 1248{3}	389.215	0.000 E3	100.0#	0#	-6.71#
26 L5c PCB 1248{4}	658.818	0.000 E3	100.0#	0#	-6.99#
27 L5c PCB 1248{5}	410.103	0.000 E3	100.0#	0#	-7.12#

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA821.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 1:26 pm  
Operator : M.Pedro  
Sample : CCV56  
Misc : AR1660M  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 21 14:20:06 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Wed Feb 14 07:39:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
28 L6c PCB 1254	812.320	0.000 E3	100.0#	0#	-7.44#
29 L6c PCB 1254{2}	633.189	0.000 E3	100.0#	0#	-7.85#
30 L6c PCB 1254{3}	919.016	0.000 E3	100.0#	0#	-8.06#
31 L6c PCB 1254{4}	984.494	0.000 E3	100.0#	0#	-8.68#
32 L6c PCB 1254{5}	483.901	0.000 E3	100.0#	0#	-9.24#
38 L8C PCB 1268	500.757	0.000 E3	100.0	0#	-8.71#
39 L8C PCB 1268{2}	590.796	0.000 E3	100.0	0#	-9.13#
40 L8C PCB 1268{3}	2.090	0.000 E6	100.0	0#	-10.55#
41 L8C PCB 1268{4}	530.250	0.000 E3	100.0	0#	-10.79#
42 L8C PCB 1268{5}	958.003	0.000 E3	100.0	0#	-10.95#
43 L9C PCB 1262	471.311	0.000 E3	100.0	0#	-7.94#
44 L9C PCB 1262{2}	784.984	0.000 E3	100.0	0#	-8.19#
45 L9C PCB 1262{3}	1.173	0.000 E6	100.0	0#	-8.71#
46 L9C PCB 1262{4}	809.686	0.000 E3	100.0	0#	-9.92#
47 L9C PCB 1262{5}	1.015	0.000 E6	100.0	0#	-10.95#

(#) = Out of Range

SPCC's out = 0 CCC's out = 50

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA821.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 1:26 pm  
 Operator : M.Pedro  
 Sample : CCV56  
 Misc : AR1660M  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 21 14:20:06 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Wed Feb 14 07:39:54 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.612	4.755	1416.5E6	1093.7E6	56.206	57.694
Spiked Amount	100.000	Range	30 - 150	Recovery	= 56.21%	57.69%
2) S SURR2, Dec...	11.366	12.663	1052.1E6	856.7E6	51.706	52.186
Spiked Amount	100.000	Range	30 - 150	Recovery	= 51.71%	52.19%
Target Compounds						
3) L1c PCB 1016	5.215	5.497	216.8E6	147.3E6	456.267	447.555
4) L1c PCB 1016{2}	5.626	5.948	432.0E6	344.1E6	444.211	452.479
5) L1c PCB 1016{3}	5.832	6.505	124.4E6	210.8E6	455.048	443.693m
6) L1c PCB 1016{4}	5.883	6.703	182.7E6	147.6E6	444.007	456.716
7) L1c PCB 1016{5}	6.232	6.987	401.9E6	244.6E6	445.541	444.091
Sum PCB 1016			1357.8E6	1094.3E6	2245.073	2244.533
Average PCB 1016					449.015	448.907
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.187	549.6E6	515.0E6	430.044	431.739
34) L7c PCB 1260{2}	8.000	9.163	678.3E6	313.9E6	428.558	431.462
35) L7c PCB 1260{3}	8.729	9.328	487.0E6	777.5E6	438.134	447.737
36) L7C PCB 1260{4}	9.046	10.062	912.7E6	430.2E6	440.204	443.880
37) L7C PCB 1260{5}	10.482	10.931	219.9E6	267.8E6	436.357	440.626
Sum PCB 1260			2847.5E6	2304.4E6	2173.297	2195.444
Average PCB 1260					434.659	439.089
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

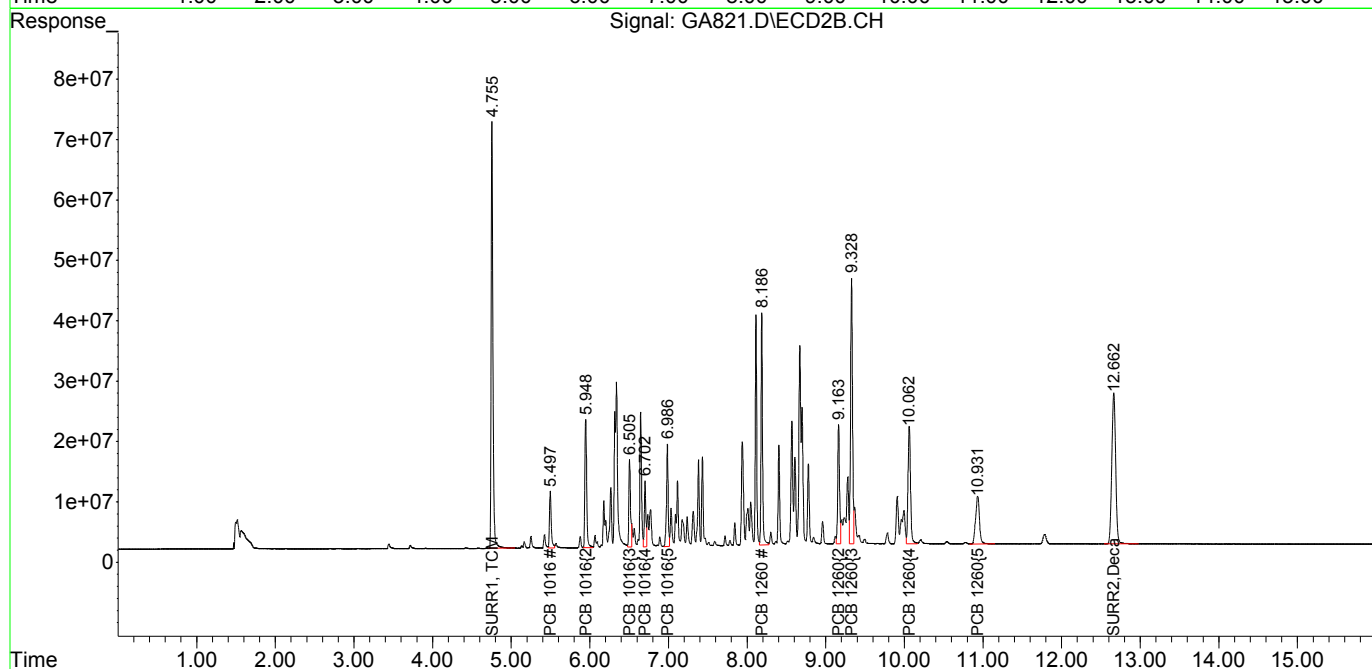
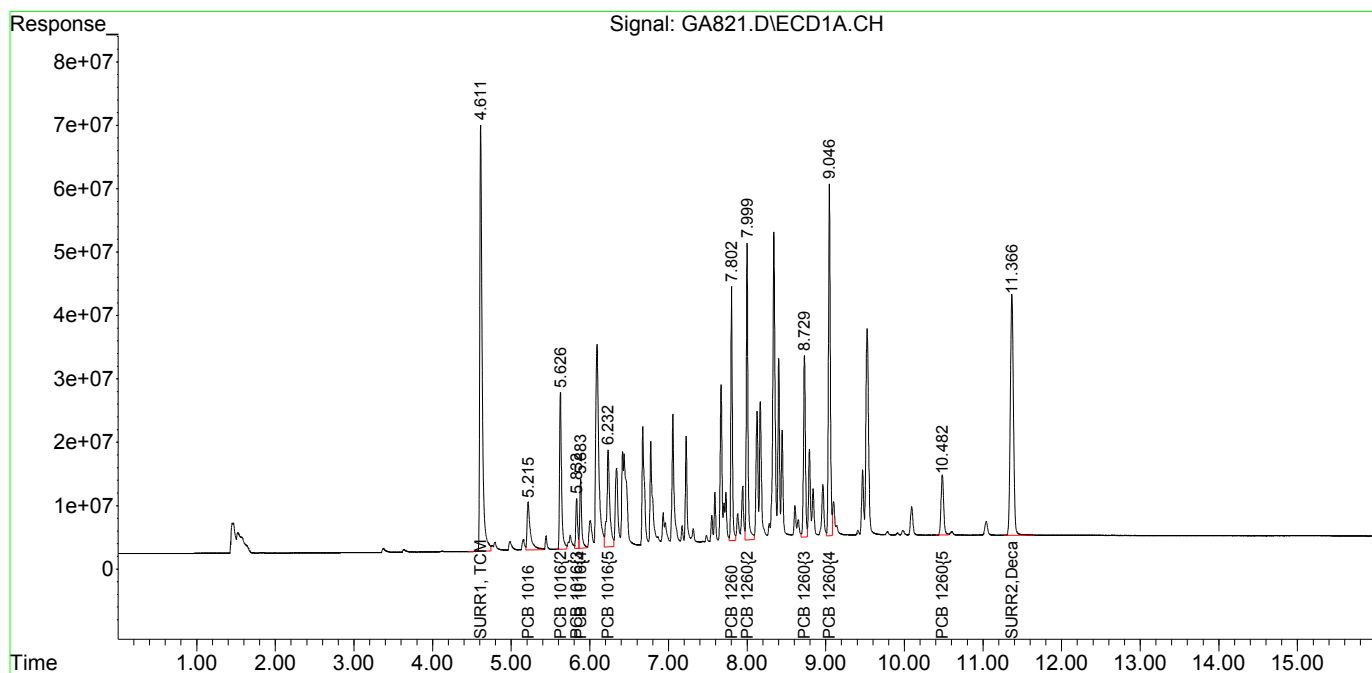
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA821.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 1:26 pm  
Operator : M.Pedro  
Sample : CCV56  
Misc : AR1660M  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 21 14:20:06 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Wed Feb 14 07:39:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

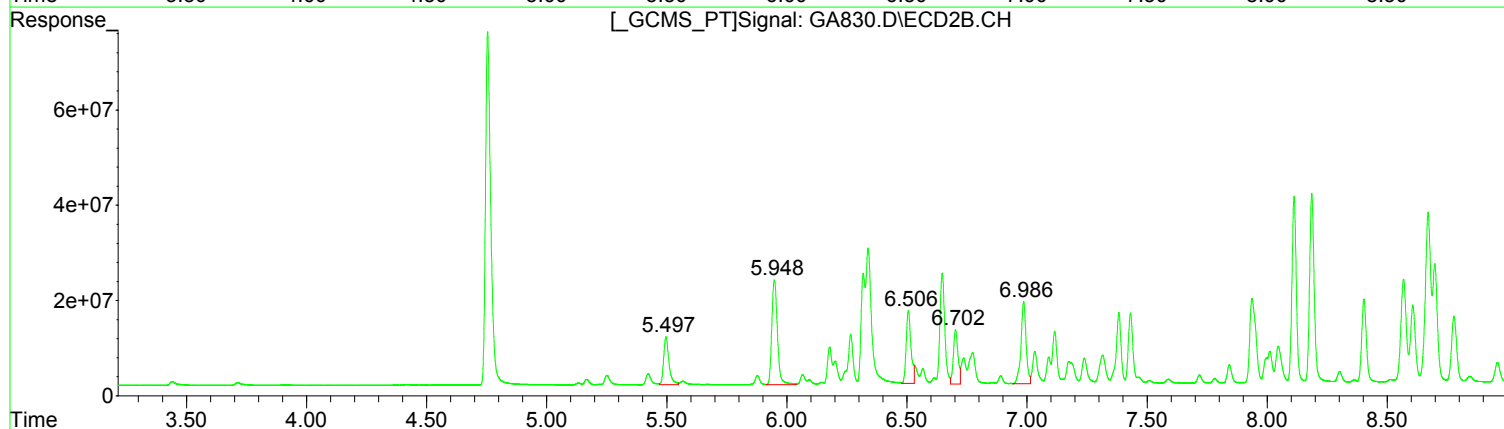
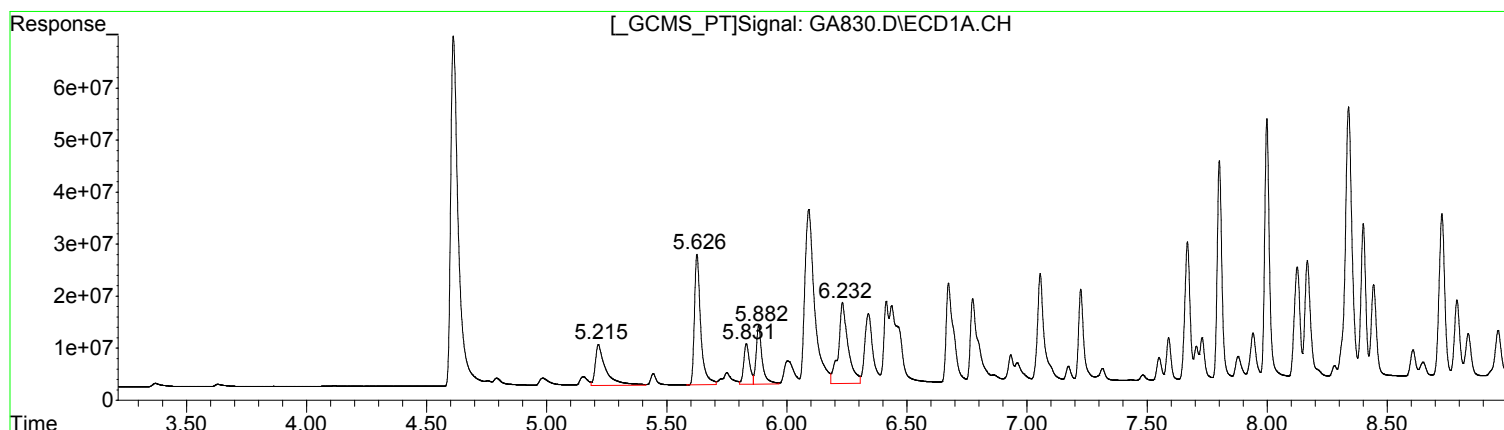
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA830.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 5:02 pm  
Operator : M.Pedro  
Sample : CCV57  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:36 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	235542414	495.67
5.63	455529867	468.40
5.83	132038413	483.00
5.88	196767850	478.13
6.23	434138336	481.31

(3) PCB 1016 #2 (L1c)

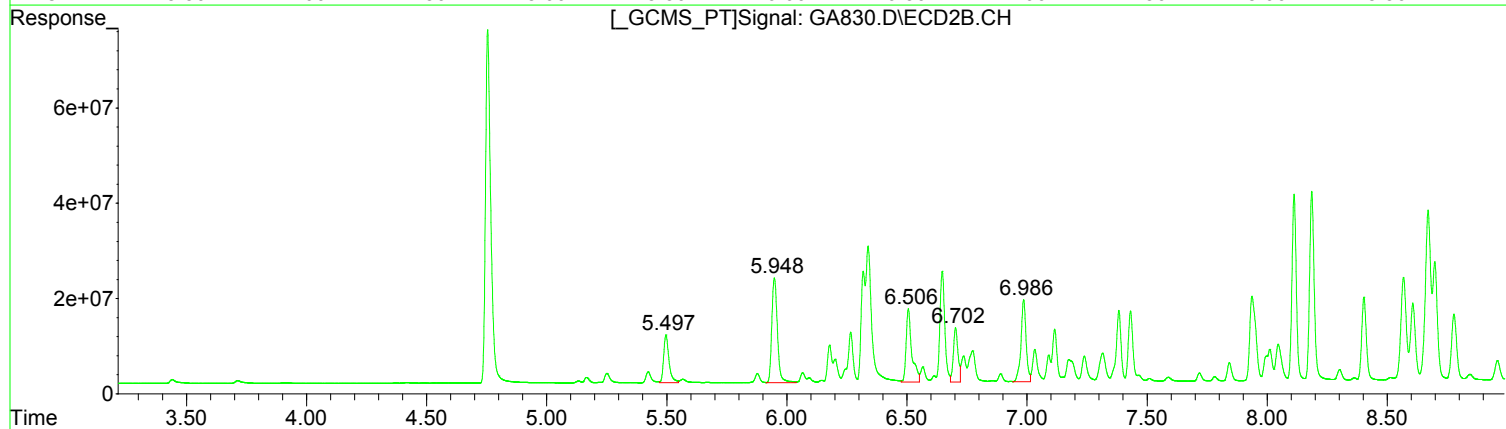
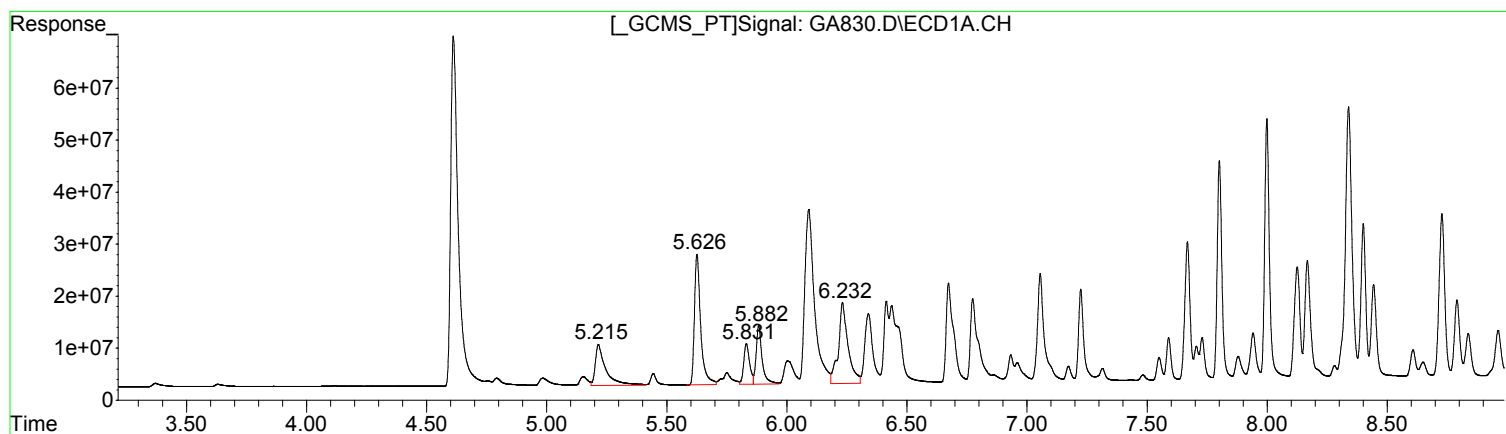
R.T.	Response	Conc
5.50	154875477	470.68
5.95	356308397	468.58
6.51	211814453	445.93
6.70	150924678	467.02
6.99	255755913	464.34

Manual Integration:  
After  
Poor integration.  
02/22/18

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA830.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 5:02 pm  
Operator : M.Pedro  
Sample : CCV57  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:36 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	235542414	495.67
5.63	455529867	468.40
5.83	132038413	483.00
5.88	196767850	478.13
6.23	434138336	481.31

Manual Integration:  
Before  
02/22/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	154875477	470.68
5.95	356308397	468.58
6.51	253623846	533.95
6.70	150924678	467.02
6.99	255755913	464.34



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA830.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 5:02 pm  
Operator : M.Pedro  
Sample : CCV57  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:36 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1, TCMX	25.202	24.959 E6	1.0	97	0.00
2 S SURR2,Decachlorobiphenyl	20.348	19.265 E6	5.3	98	0.00
3 L1c PCB 1016	475.197	471.085 E3	0.9	96	0.00
4 L1c PCB 1016{2}	972.517	911.060 E3	6.3	96	0.00
5 L1c PCB 1016{3}	273.374	264.077 E3	3.4	95	0.00
6 L1c PCB 1016{4}	411.536	393.536 E3	4.4	96	0.00
7 L1c PCB 1016{5}	901.988	868.277 E3	3.7	96	0.00
33 L7c PCB 1260	1.278	1.157 E6	9.5	94	0.00
34 L7c PCB 1260{2}	1.583	1.427 E6	9.9	95	0.00
35 L7c PCB 1260{3}	1.112	1.049 E6	5.7	96	0.00
36 L7C PCB 1260{4}	2.073	1.990 E6	4.0	97	0.00
37 L7C PCB 1260{5}	503.843	490.582 E3	2.6	98	0.00

Signal #2

1 S SURR1, TCMX	18.956	19.079 E6	-0.6	99	0.00
2 S SURR2,Decachlorobiphenyl	16.417	15.663 E6	4.6	100	-0.02
3 L1c PCB 1016	329.045	309.751 E3	5.9	97	0.00
4 L1c PCB 1016{2}	760.403	712.617 E3	6.3	98	0.00
5 L1c PCB 1016{3}	474.996	423.629 E3	10.8	95	0.00
6 L1c PCB 1016{4}	323.167	301.849 E3	6.6	97	0.00
7 L1c PCB 1016{5}	550.791	511.512 E3	7.1	95	0.00
33 L7c PCB 1260	1.193	1.084 E6	9.1	95	0.00
34 L7c PCB 1260{2}	727.528	674.601 E3	7.3	94	-0.01
35 L7c PCB 1260{3}	1.737	1.685 E6	3.0	98	-0.01
36 L7C PCB 1260{4}	969.249	928.745 E3	4.2	98	-0.02
37 L7C PCB 1260{5}	607.788	590.616 E3	2.8	100	-0.02

Evaluate Continuing Calibration Report - Not Found

8 L2c PCB 1221	197.459	0.000 E3	100.0#	0#	-4.11#
9 L2c PCB 1221{2}	285.978	0.000 E3	100.0#	0#	-4.98#
10 L2c PCB 1221{3}	160.087	0.000 E3	100.0#	0#	-5.15#
11 L2c PCB 1221{4}	724.108	0.000 E3	100.0#	0#	-5.21#
12 L2c PCB 1221{5}	97.921	0.000 E3	100.0#	0#	-5.63#
13 L3c PCB 1232	674.110	0.000 E3	100.0#	0#	-5.21#
14 L3c PCB 1232{2}	508.886	0.000 E3	100.0#	0#	-5.63#
15 L3c PCB 1232{3}	1012.977	0.000 E3	100.0#	0#	-6.09#
16 L3c PCB 1232{4}	475.434	0.000 E3	100.0#	0#	-6.24#
17 L3c PCB 1232{5}	400.159	0.000 E3	100.0#	0#	-6.68#
18 L4c PCB 1242	401.075	0.000 E3	100.0#	0#	-5.22#
19 L4c PCB 1242{2}	337.772	0.000 E3	100.0#	0#	-5.88#
20 L4c PCB 1242{3}	1.605	0.000 E6	100.0#	0#	-6.09#
21 L4c PCB 1242{4}	719.522	0.000 E3	100.0#	0#	-6.68#

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA830.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 5:02 pm  
Operator : M.Pedro  
Sample : CCV57  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:36 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
22 L4c PCB 1242{5}	672.438	0.000 E3	100.0#	0#	-6.78#
23 L5c PCB 1248	424.760	0.000 E3	100.0#	0#	-5.63#
24 L5c PCB 1248{2}	1.044	0.000 E6	100.0#	0#	-6.09#
25 L5c PCB 1248{3}	366.283	0.000 E3	100.0#	0#	-6.23#
26 L5c PCB 1248{4}	1.120	0.000 E6	100.0#	0#	-6.67#
27 L5c PCB 1248{5}	941.084	0.000 E3	100.0#	0#	-6.78#
28 L6c PCB 1254	490.748	0.000 E3	100.0#	0#	-7.49#
29 L6c PCB 1254{2}	763.463	0.000 E3	100.0#	0#	-7.55#
30 L6c PCB 1254{3}	1.654	0.000 E6	100.0#	0#	-7.66#
31 L6c PCB 1254{4}	873.666	0.000 E3	100.0#	0#	-7.81#
32 L6c PCB 1254{5}	427.264	0.000 E3	100.0#	0#	-8.72#
38 L8C PCB 1268	589.119	0.000 E3	100.0	0#	-8.40#
39 L8C PCB 1268{2}	736.470	0.000 E3	100.0	0#	-8.66#
40 L8C PCB 1268{3}	2.552	0.000 E6	100.0	0#	-9.79#
41 L8C PCB 1268{4}	661.760	0.000 E3	100.0	0#	-9.91#
42 L8C PCB 1268{5}	1.144	0.000 E6	100.0	0#	-10.49#
43 L9C PCB 1262	604.709	0.000 E3	100.0	0#	-7.67#
44 L9C PCB 1262{2}	871.669	0.000 E3	100.0	0#	-7.80#
45 L9C PCB 1262{3}	1.387	0.000 E6	100.0	0#	-8.40#
46 L9C PCB 1262{4}	1.928	0.000 E6	100.0	0#	-9.54#
47 L9C PCB 1262{5}	892.998	0.000 E3	100.0	0#	-10.49#

Signal #2

8 L2c PCB 1221	145.482	0.000 E3	100.0#	0#	-4.42#
9 L2c PCB 1221{2}	219.036	0.000 E3	100.0#	0#	-5.25#
10 L2c PCB 1221{3}	140.879	0.000 E3	100.0#	0#	-5.42#
11 L2c PCB 1221{4}	436.978	0.000 E3	100.0#	0#	-5.50#
12 L2c PCB 1221{5}	81.306	0.000 E3	100.0#	0#	-5.57#
13 L3c PCB 1232	120.503	0.000 E3	100.0#	0#	-5.42#
14 L3c PCB 1232{2}	419.131	0.000 E3	100.0#	0#	-5.50#
15 L3c PCB 1232{3}	420.034	0.000 E3	100.0#	0#	-5.95#
16 L3c PCB 1232{4}	227.113	0.000 E3	100.0#	0#	-7.25#
17 L3c PCB 1232{5}	278.810	0.000 E3	100.0#	0#	-7.31#
18 L4c PCB 1242	272.153	0.000 E3	100.0#	0#	-5.50#
19 L4c PCB 1242{2}	608.768	0.000 E3	100.0#	0#	-5.95#
20 L4c PCB 1242{3}	460.575	0.000 E3	100.0#	0#	-6.99#
21 L4c PCB 1242{4}	494.819	0.000 E3	100.0#	0#	-7.31#
22 L4c PCB 1242{5}	415.255	0.000 E3	100.0#	0#	-7.59#
23 L5c PCB 1248	324.905	0.000 E3	100.0#	0#	-5.95#
24 L5c PCB 1248{2}	641.593	0.000 E3	100.0#	0#	-6.65#
25 L5c PCB 1248{3}	389.215	0.000 E3	100.0#	0#	-6.71#
26 L5c PCB 1248{4}	658.818	0.000 E3	100.0#	0#	-6.99#
27 L5c PCB 1248{5}	410.103	0.000 E3	100.0#	0#	-7.12#

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA830.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 5:02 pm  
 Operator : M.Pedro  
 Sample : CCV57  
 Misc : AR1660M  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 22 09:01:36 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Feb 22 09:00:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
28 L6c PCB 1254	812.320	0.000 E3	100.0#	0#	-7.44#
29 L6c PCB 1254{2}	633.189	0.000 E3	100.0#	0#	-7.85#
30 L6c PCB 1254{3}	919.016	0.000 E3	100.0#	0#	-8.06#
31 L6c PCB 1254{4}	984.494	0.000 E3	100.0#	0#	-8.68#
32 L6c PCB 1254{5}	483.901	0.000 E3	100.0#	0#	-9.24#
38 L8C PCB 1268	500.757	0.000 E3	100.0	0#	-8.71#
39 L8C PCB 1268{2}	590.796	0.000 E3	100.0	0#	-9.13#
40 L8C PCB 1268{3}	2.090	0.000 E6	100.0	0#	-10.55#
41 L8C PCB 1268{4}	530.250	0.000 E3	100.0	0#	-10.79#
42 L8C PCB 1268{5}	958.003	0.000 E3	100.0	0#	-10.95#
43 L9C PCB 1262	471.311	0.000 E3	100.0	0#	-7.94#
44 L9C PCB 1262{2}	784.984	0.000 E3	100.0	0#	-8.19#
45 L9C PCB 1262{3}	1.173	0.000 E6	100.0	0#	-8.71#
46 L9C PCB 1262{4}	809.686	0.000 E3	100.0	0#	-9.92#
47 L9C PCB 1262{5}	1.015	0.000 E6	100.0	0#	-10.95#

(#) = Out of Range

SPCC's out = 0 CCC's out = 50

Data Path : I:\ACQUDATA\6890D\DATA\022118\  
 Data File : GA830.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 21 Feb 2018 5:02 pm  
 Operator : M.Pedro  
 Sample : CCV57  
 Misc : AR1660M  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 22 09:01:36 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Feb 22 09:00:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.754	1497.6E6	1144.8E6	59.422	60.389
Spiked Amount	100.000	Range	30 - 150	Recovery	= 59.42%	60.39%
2) S SURR2, Dec...	11.363	12.662	1155.9E6	939.8E6	56.807	57.244
Spiked Amount	100.000	Range	30 - 150	Recovery	= 56.81%	57.24%
Target Compounds						
3) L1c PCB 1016	5.215	5.497	235.5E6	154.9E6	495.673	470.682
4) L1c PCB 1016{2}	5.626	5.948	455.5E6	356.3E6	468.403	468.578
5) L1c PCB 1016{3}	5.831	6.506	132.0E6	211.8E6	482.995	445.928m
6) L1c PCB 1016{4}	5.883	6.703	196.8E6	150.9E6	478.130	467.018
7) L1c PCB 1016{5}	6.232	6.986	434.1E6	255.8E6	481.313	464.343
Sum PCB 1016			1454.0E6	1129.7E6	2406.514	2316.550
Average PCB 1016					481.303	463.310
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.801	8.186	578.6E6	542.2E6	452.716	454.534
34) L7c PCB 1260{2}	7.999	9.162	713.3E6	337.3E6	450.647	463.625
35) L7c PCB 1260{3}	8.728	9.326	524.5E6	842.7E6	471.917	485.263
36) L7C PCB 1260{4}	9.044	10.061	995.2E6	464.4E6	479.971	479.105
37) L7C PCB 1260{5}	10.479	10.933	245.3E6	295.3E6	486.839	485.873
Sum PCB 1260			3056.8E6	2481.8E6	2342.091	2368.400
Average PCB 1260					468.418	473.680
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

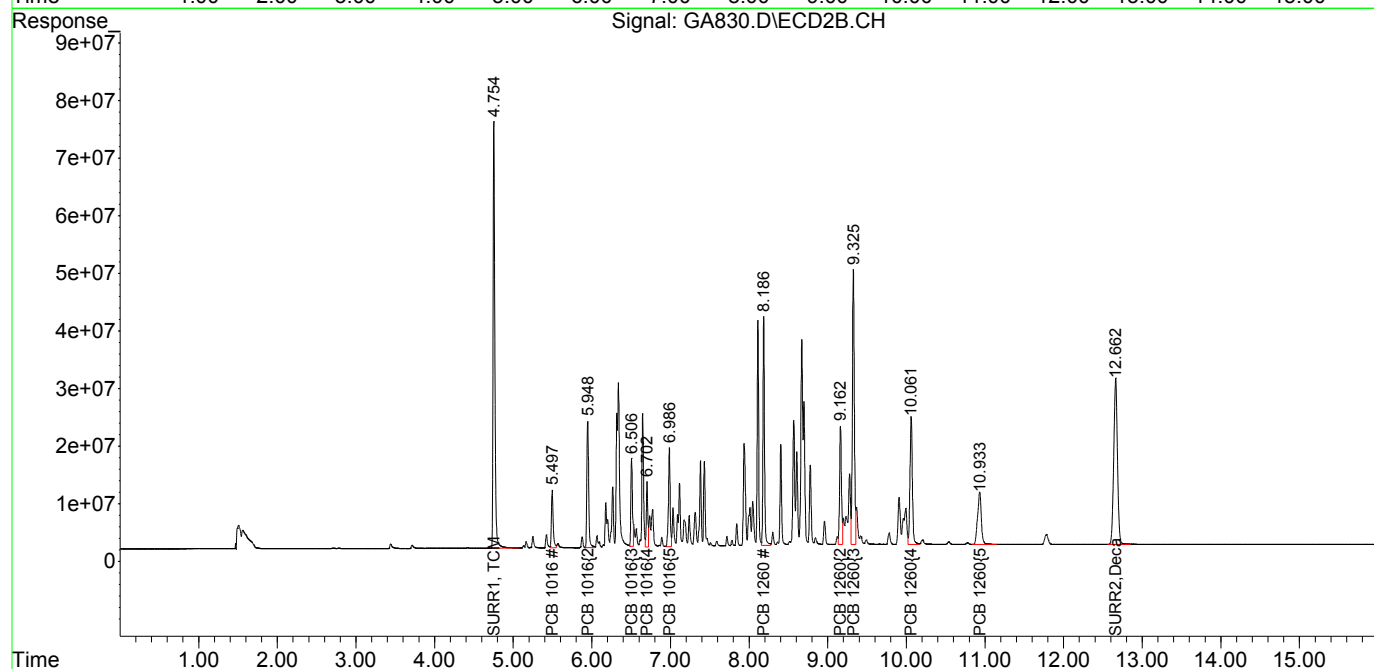
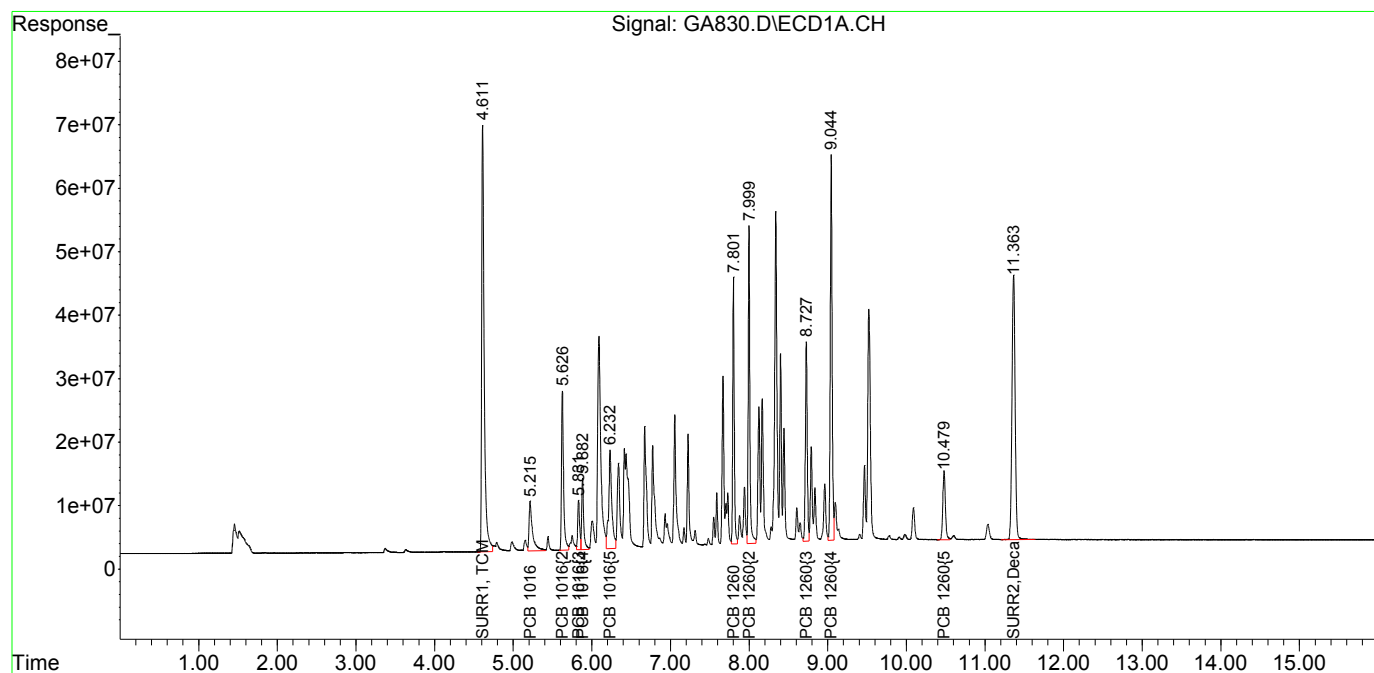
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022118\  
Data File : GA830.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 21 Feb 2018 5:02 pm  
Operator : M.Pedro  
Sample : CCV57  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 22 09:01:36 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Feb 22 09:00:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA352.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 5:23 pm  
 Operator : M.Pedro  
 Sample : ar1660 icv  
 Misc : initial cal  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:43:28 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:42:59 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

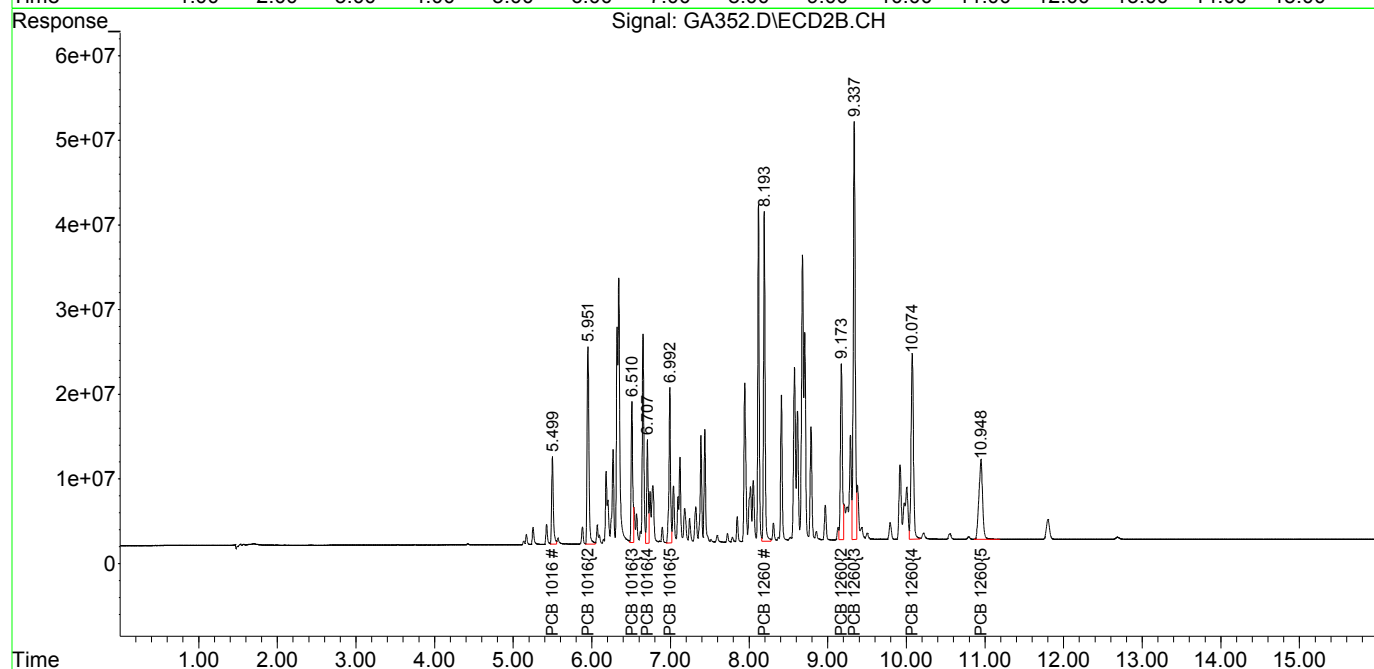
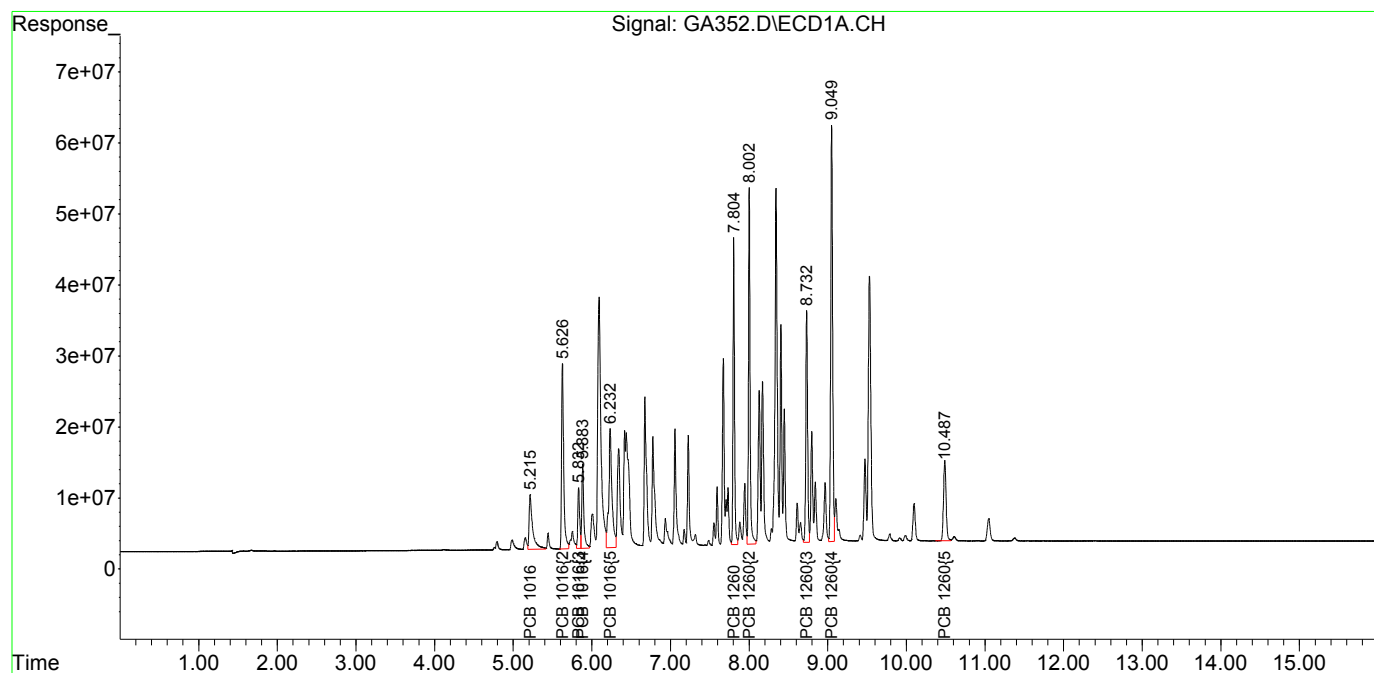
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
3) L1c PCB 1016	5.216	5.499	239.9E6	156.6E6	504.797	475.931
4) L1c PCB 1016{2}	5.627	5.951	488.5E6	377.3E6	502.323	496.211
5) L1c PCB 1016{3}	5.832	6.510	142.9E6	229.5E6	522.616	483.202m
6) L1c PCB 1016{4}	5.884	6.707	214.2E6	164.3E6	520.543	508.259
7) L1c PCB 1016{5}	6.233	6.992	476.2E6	256.6E6	527.946	465.811
Sum PCB 1016			1561.7E6	1184.3E6	2578.224	2429.414
Average PCB 1016					515.645	485.883
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.193	583.1E6	534.7E6	456.255	448.314
34) L7c PCB 1260{2}	8.002	9.173	703.5E6	354.9E6	444.461	487.790
35) L7c PCB 1260{3}	8.732	9.337	527.0E6	843.8E6	474.115	485.881
36) L7c PCB 1260{4}	9.050	10.075	1011.9E6	460.5E6	488.008	475.085
37) L7c PCB 1260{5}	10.488	10.948	259.4E6	305.3E6	514.834	502.386
Sum PCB 1260			3084.8E6	2499.2E6	2377.674	2399.456
Average PCB 1260					475.535	479.891
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

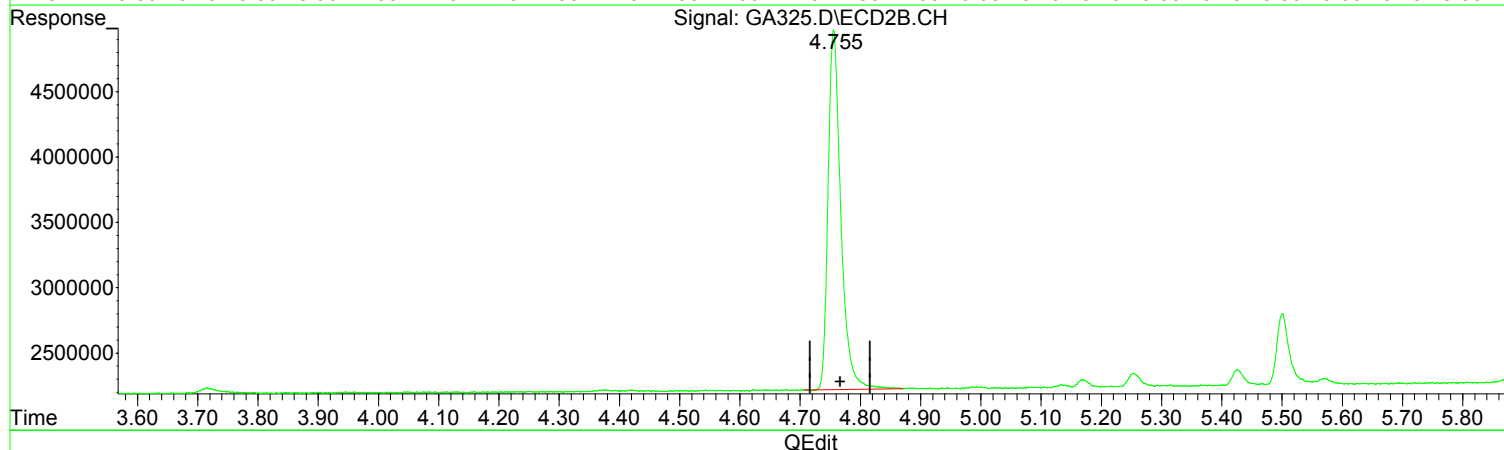
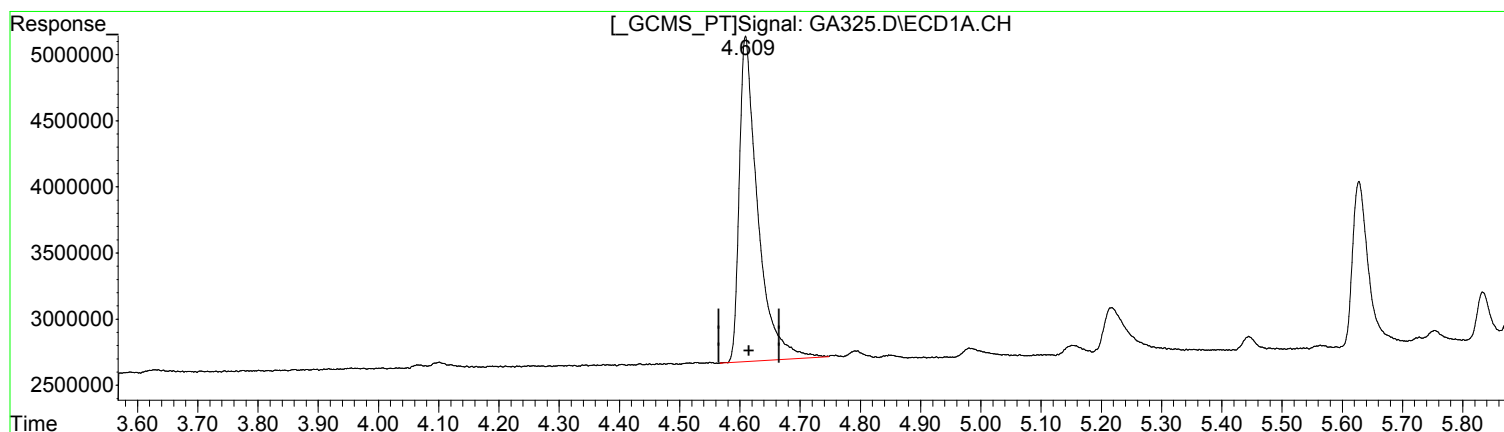




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.609min 2.381 ug/l m  
response 52331021

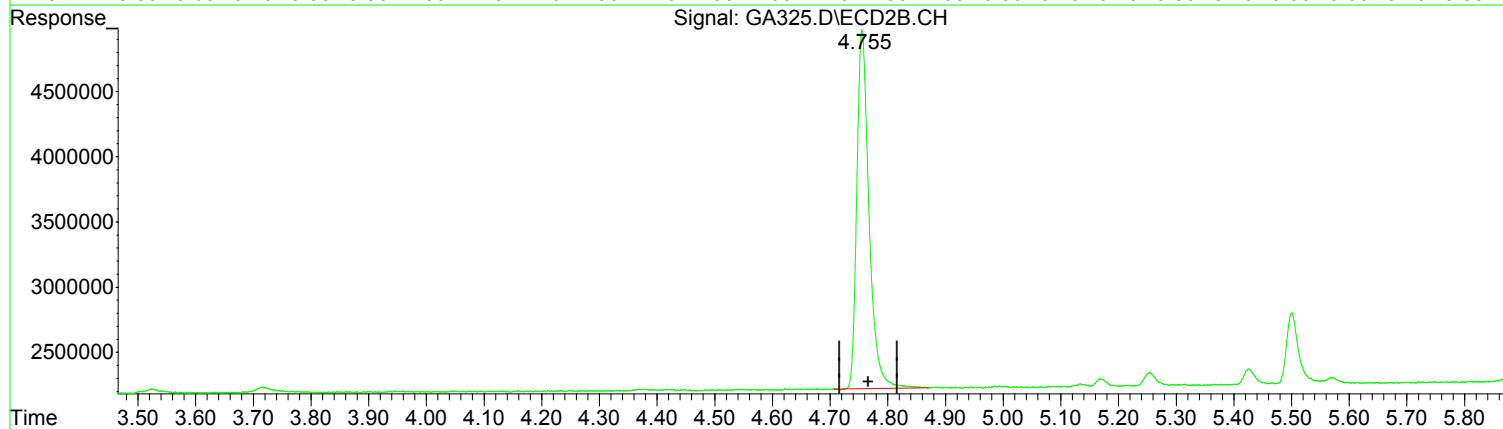
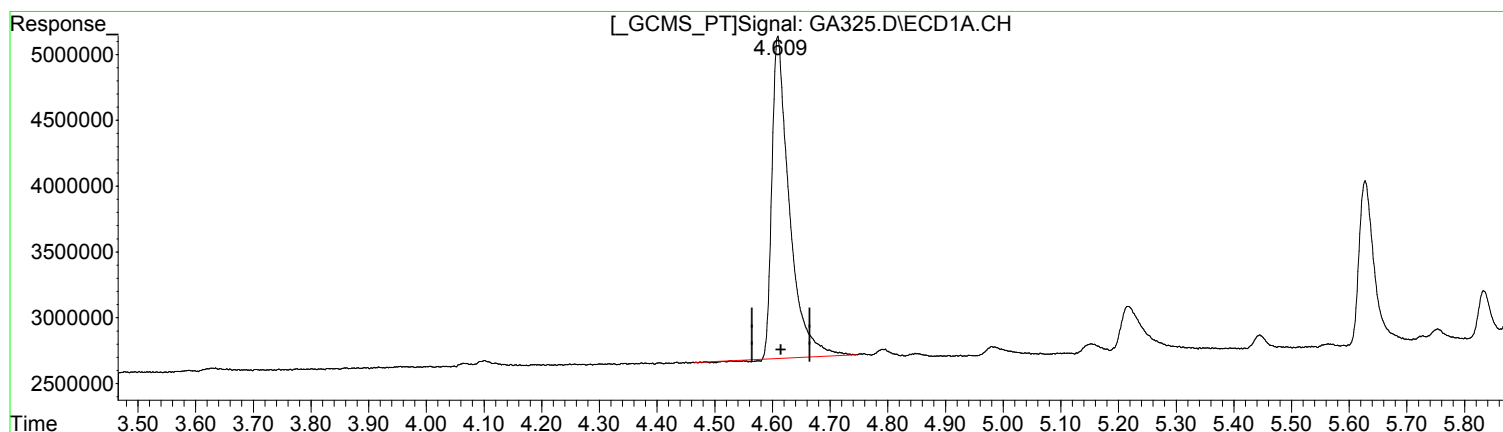
(1) SURR1, TCMX #2 (S)  
4.756min 2.196 ug/l  
response 40572661

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(1) SURR1, TCMX (S)  
4.610min 2.324 ug/l  
response 51088880

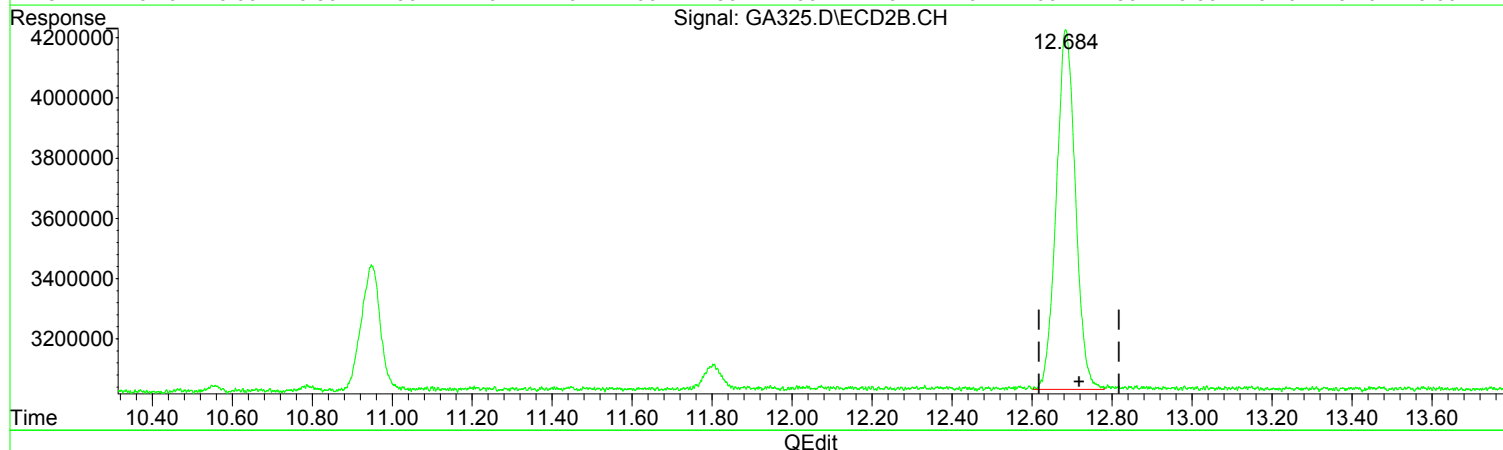
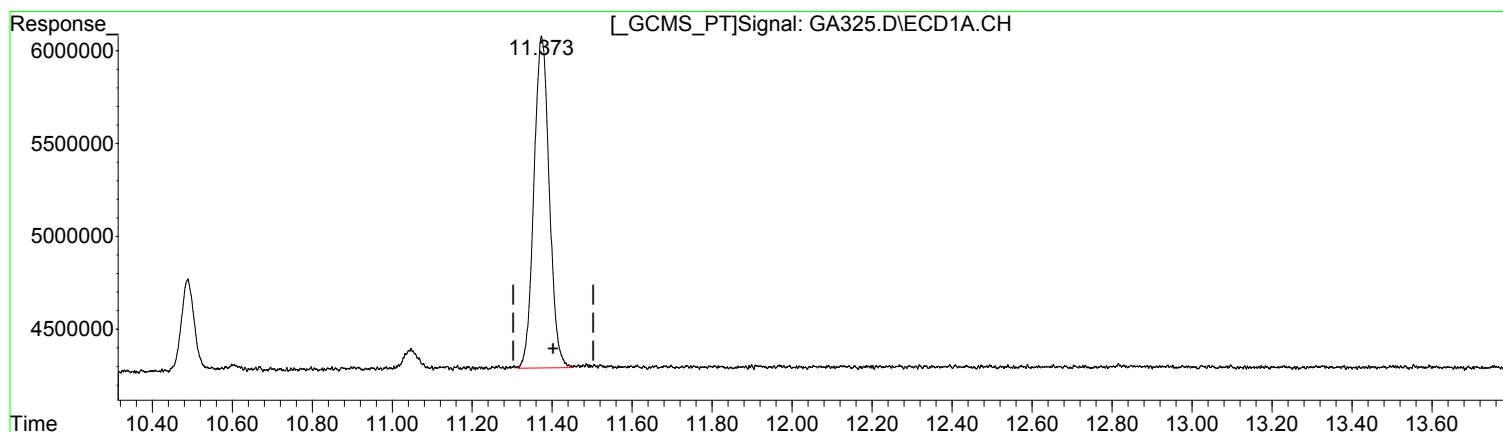
(1) SURR1, TCMX #2 (S)  
4.756min 2.196 ug/l  
response 40572661

Manual Integration:  
Before  
  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) SURR2,Decachlorobiphenyl (S)  
11.373min 3.082 ug/l m  
response 47551076

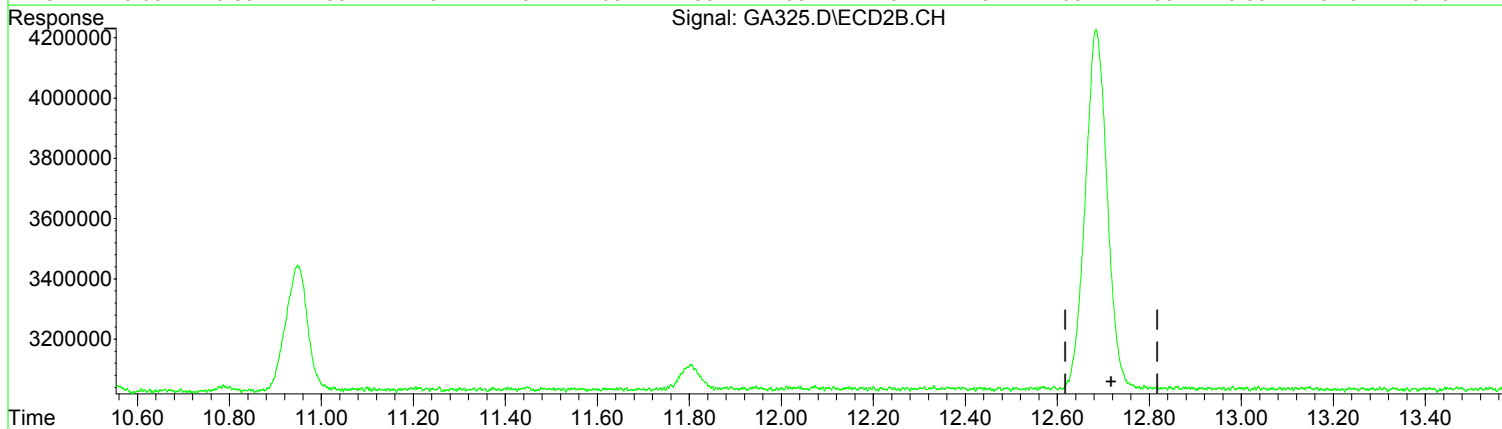
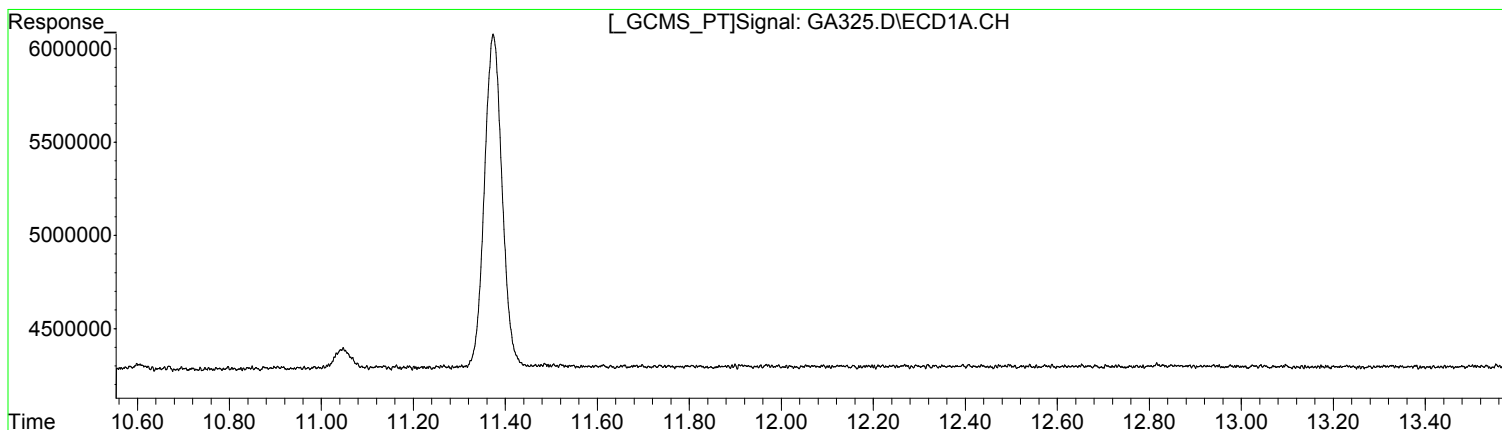
(2) SURR2,Decachlorobiphenyl #2 (S)  
12.684min 2.944 ug/l m  
response 39628867

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) SURR2,Decachlorobiphenyl (S)  
0.000min 0.000 ug/l  
response 0

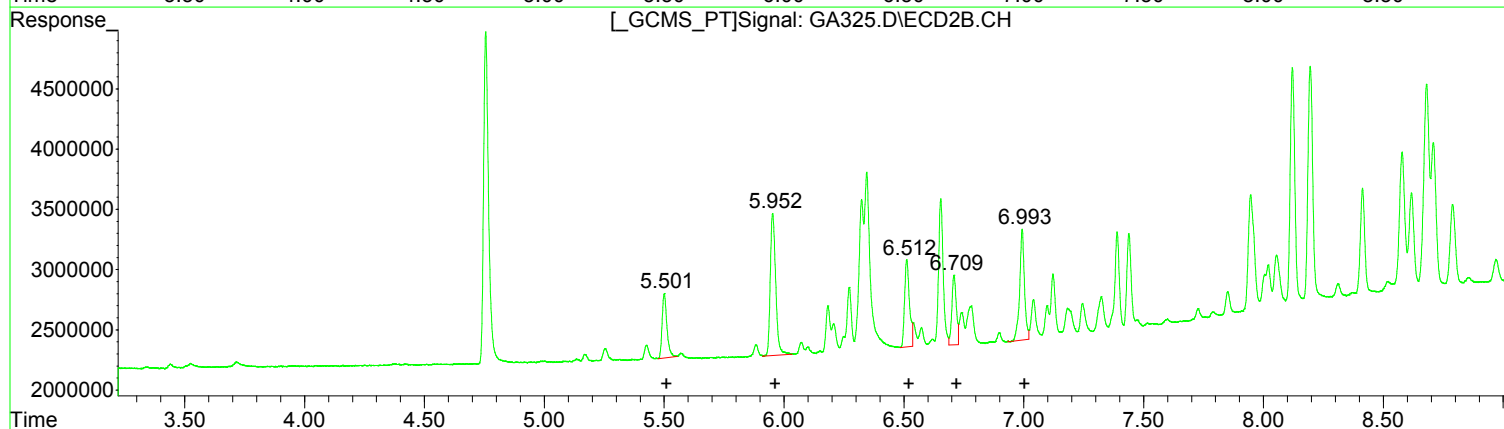
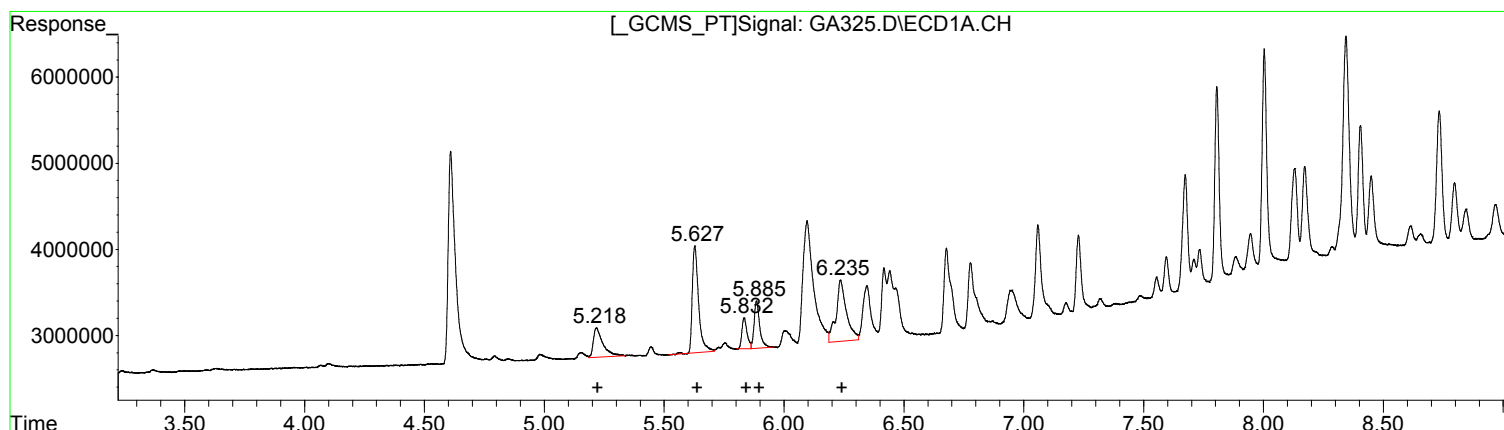
Manual Integration:  
Before  
01/11/18

(2) SURR2,Decachlorobiphenyl #2 (S)  
0.000min 0.000 ug/l  
response 0

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	9390730	23.57
5.63	22767492	27.44
5.83	5582316	23.33
5.89	8942039	27.31
6.24	21464656	29.38

(3) PCB 1016 #2 (L1c)

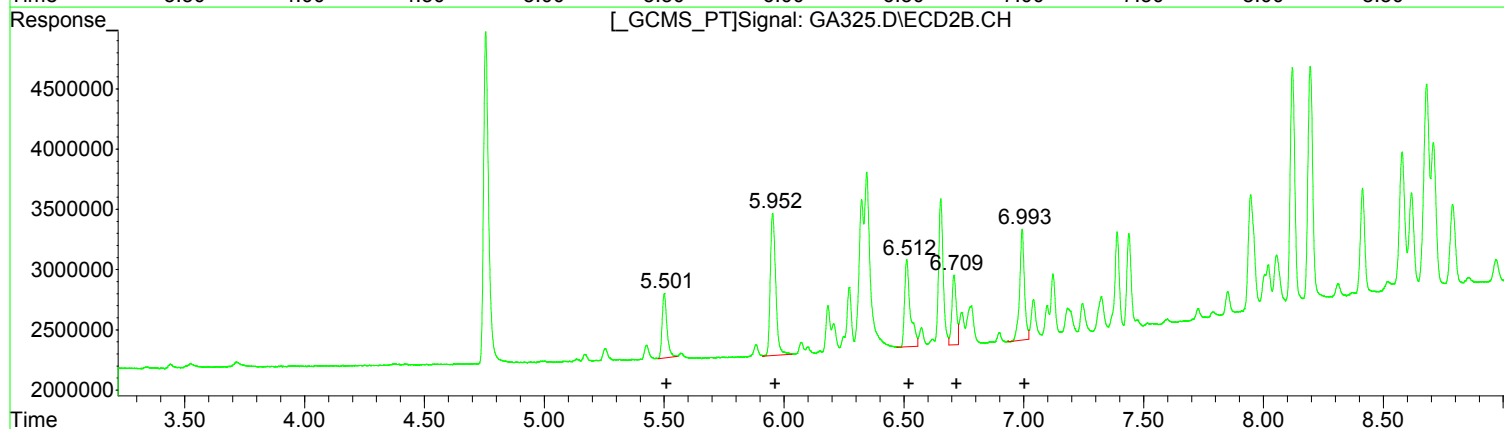
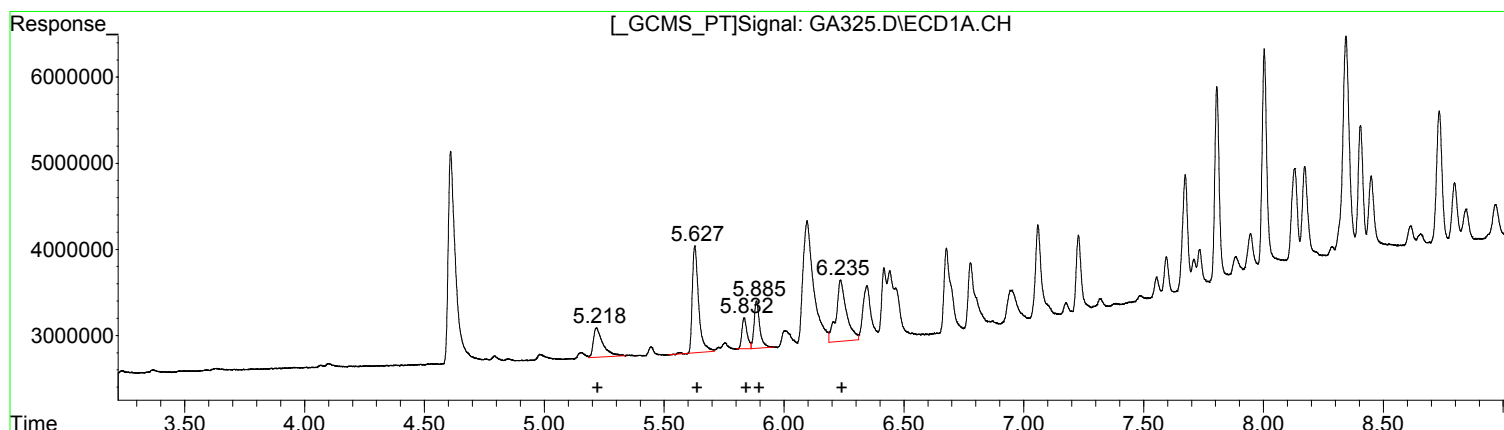
R.T.	Response	Conc
5.50	7385472	22.73
5.95	18447080	25.54
6.51	10143786	23.40
6.71	7535144	26.19
6.99	12732808	24.68

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA325.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 8:32 am  
 Operator : M.Pedro  
 Sample : ar166011  
 Misc : initial cal  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:08:49 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Mon Jan 08 14:01:00 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	9390730	23.57
5.63	22767492	27.44
5.83	5582316	23.33
5.89	8942039	27.31
6.24	21464656	29.38

Manual Integration:  
 Before  
 01/11/18

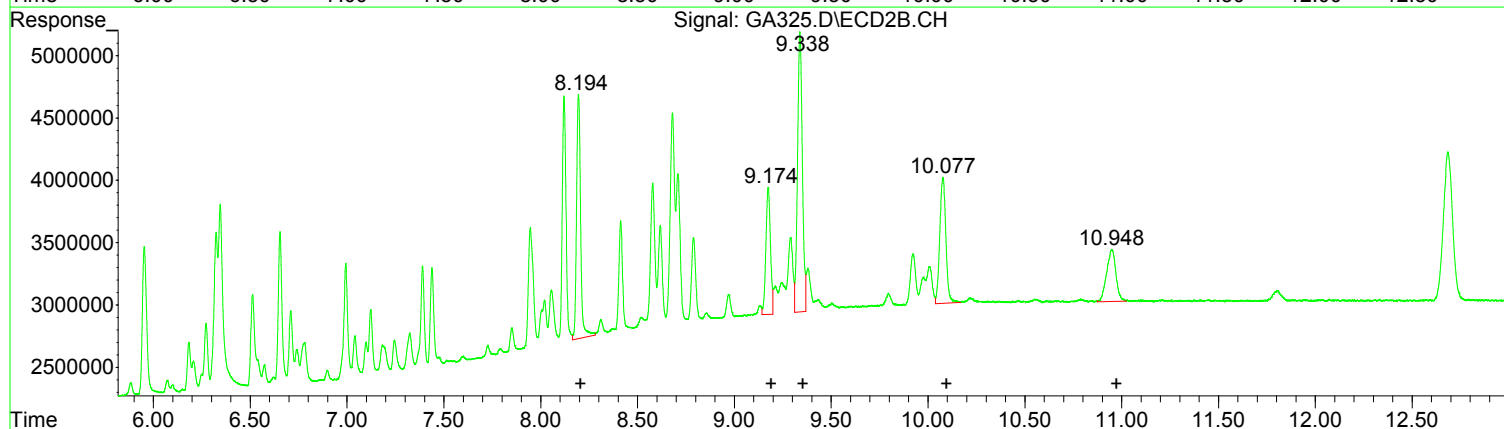
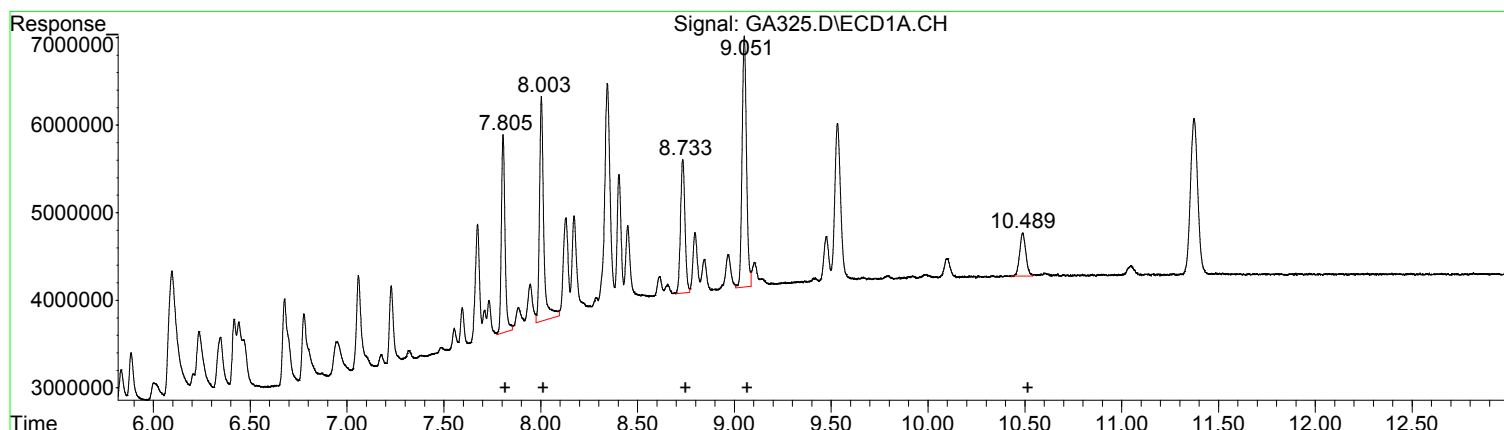
(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	7385472	22.73
5.95	18447080	25.54
6.51	11903653	27.46
6.71	7535144	26.19
6.99	12732808	24.68

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)		
R.T.	Response	Conc
7.81	30069722	30.21
8.00	38688390	32.39
8.73	24259575	29.69
9.05	45838984	29.94
10.49	10890281	28.44

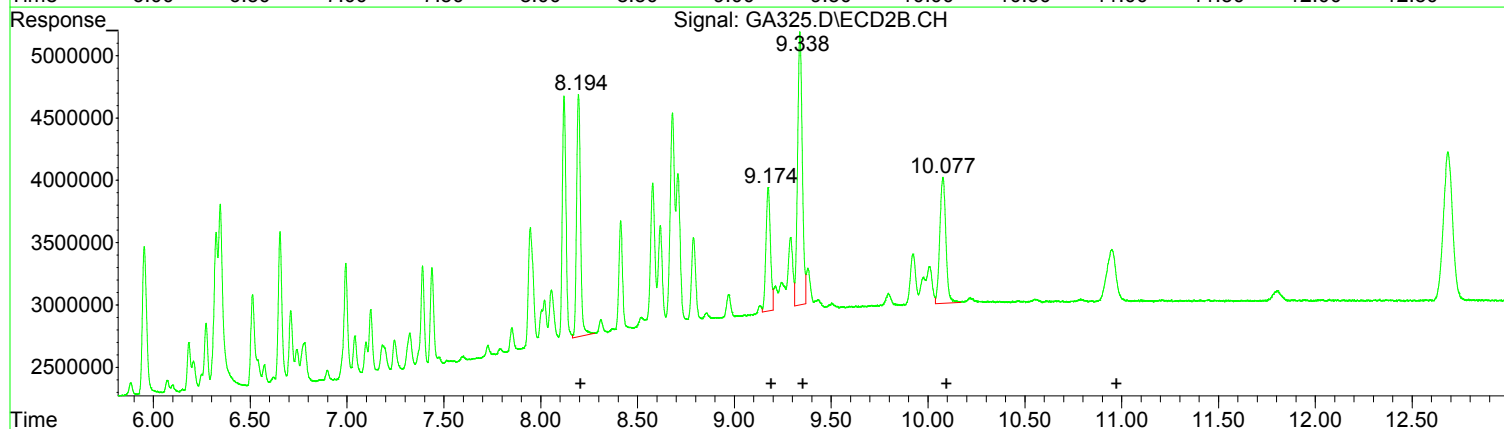
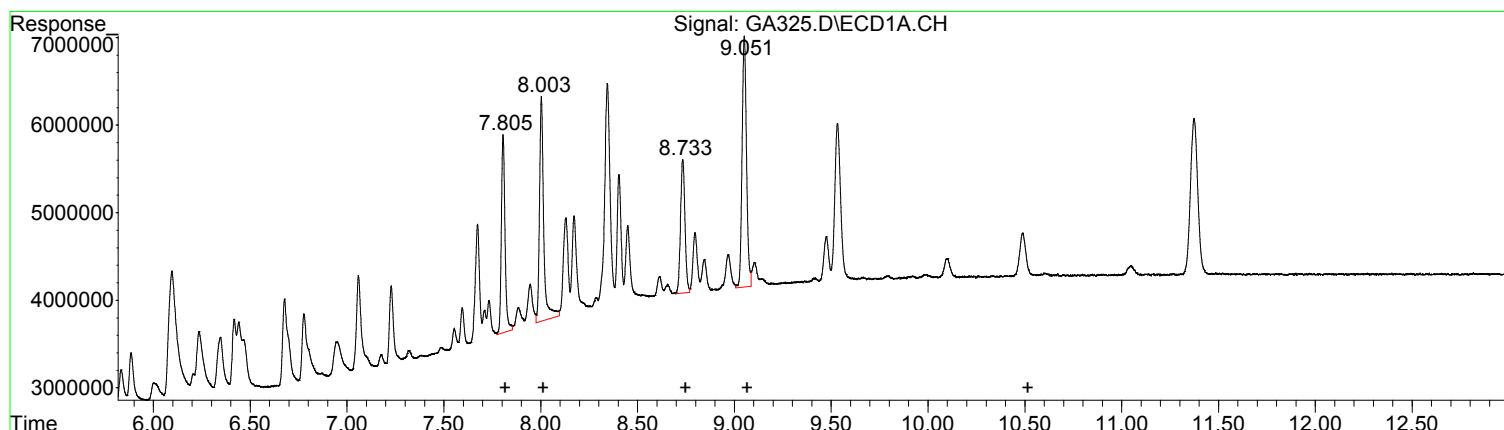
Manual Integration:  
After  
Poor integration.  
01/11/18

(33) PCB 1260 #2 (L7c)		
R.T.	Response	Conc
8.19	28823809	30.60
9.17	16812578	29.18
9.34	39374979	28.54
10.08	21799192	28.93
10.95	13706895	28.59

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)		
R.T.	Response	Conc
7.81	30069722	30.21
8.00	38688390	32.39
8.73	24259575	29.69
9.05	45838984	29.94
0.00	0	0.00

Manual Integration:  
Before  
01/11/18

(33) PCB 1260 #2 (L7c)		
R.T.	Response	Conc
8.20	27737624	29.45
9.17	16009666	27.78
9.34	37460596	27.15
10.08	21799192	28.93
0.00	0	0.00



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	52331021	40572661	2.381m	2.196
Spiked Amount	100.000	Range	30 - 150	Recovery =	2.38%#	2.20%#
2) S SURR2, Dec...	11.373	12.684	47551076	39628867	3.082m	2.944m
Spiked Amount	100.000	Range	30 - 150	Recovery =	3.08%#	2.94%#
Target Compounds						
3) L1c PCB 1016	5.217	5.501	9390730	7385472	23.566	22.734
4) L1c PCB 1016{2}	5.628	5.953	22767492	18447080	27.439	25.536
5) L1c PCB 1016{3}	5.834	6.512	5582316	10143786	23.333	23.404m
6) L1c PCB 1016{4}	5.885	6.709	8942039	7535144	27.313	26.193
7) L1c PCB 1016{5}	6.236	6.993	21464656	12732808	29.381	24.677
Sum PCB 1016			68147233	56244289	131.032	122.544
Average PCB 1016					26.206	24.509
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.806	8.194	30069722	28823809	30.206	30.601m
34) L7c PCB 1260{2}	8.004	9.174	38688390	16812578	32.393	29.176m
35) L7c PCB 1260{3}	8.733	9.338	24259575	39374979	29.694	28.536m
36) L7C PCB 1260{4}	9.051	10.077	45838984	21799192	29.941	28.931
37) L7C PCB 1260{5}	10.489	10.948	10890281	13706895	28.441m	28.590m
Sum PCB 1260			149.7E6	120.5E6	150.675	145.833
Average PCB 1260					30.135	29.167
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

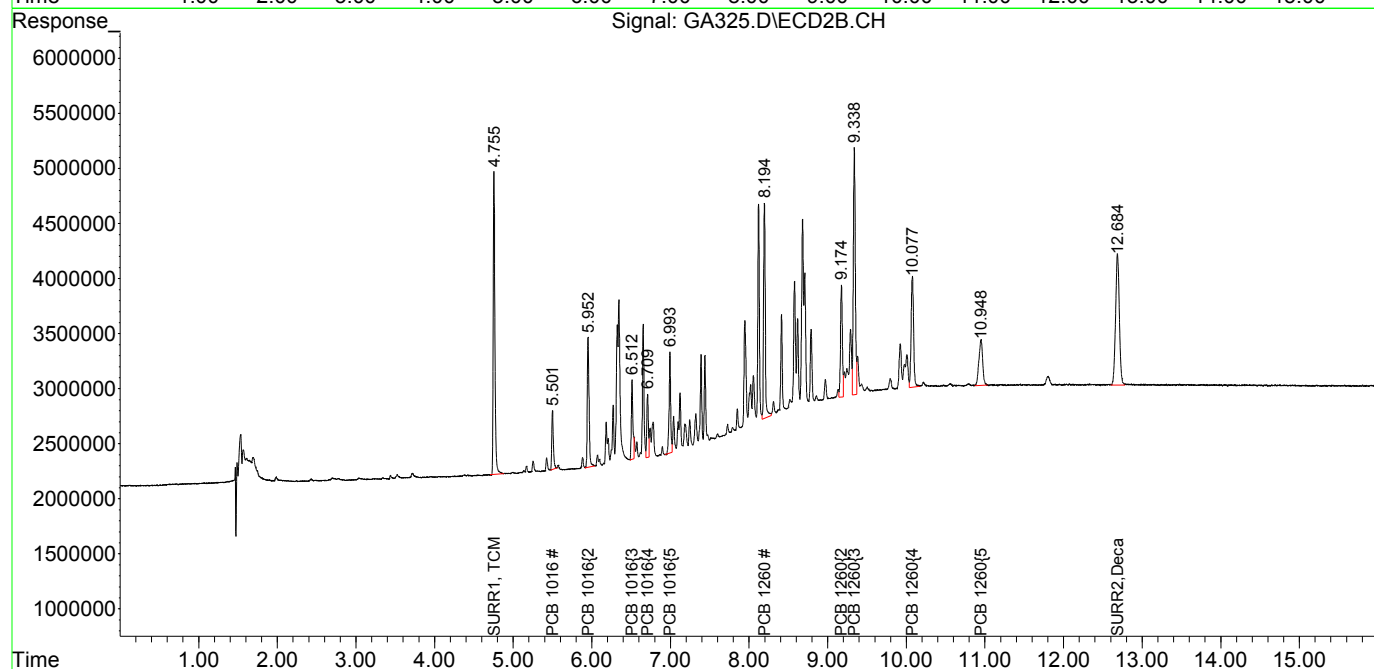
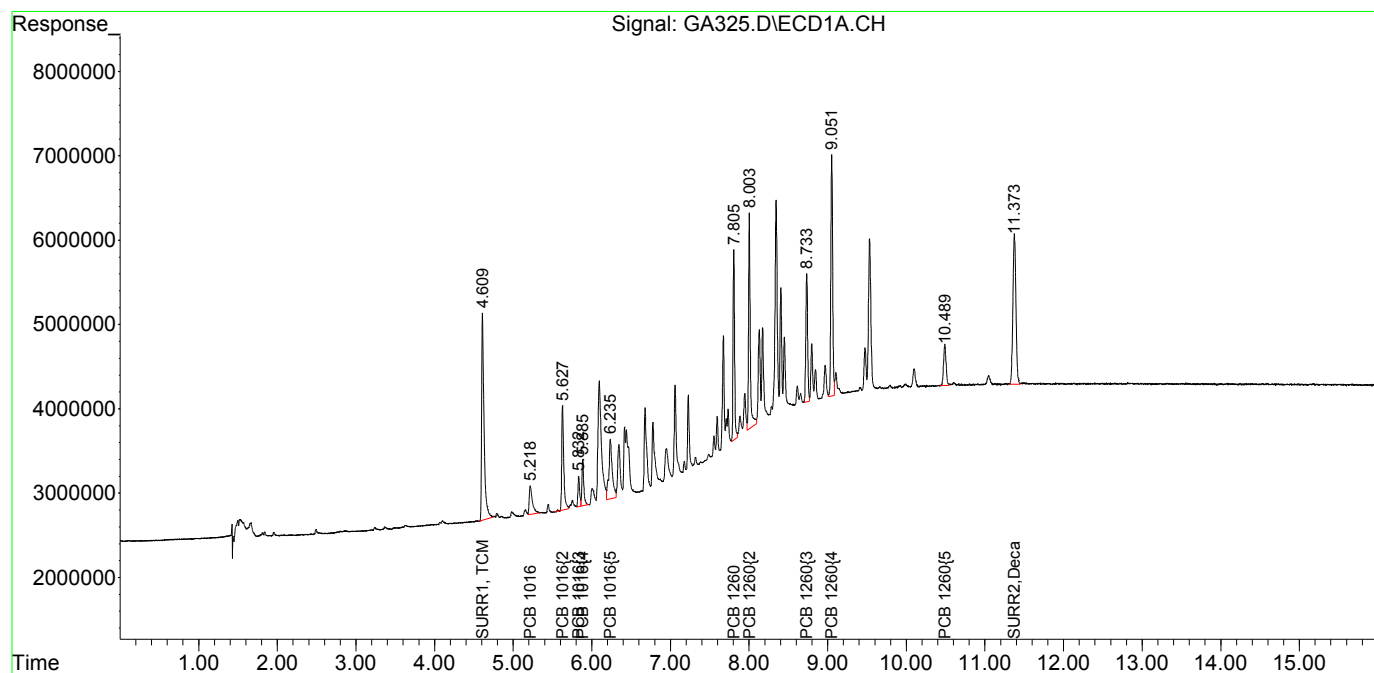
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

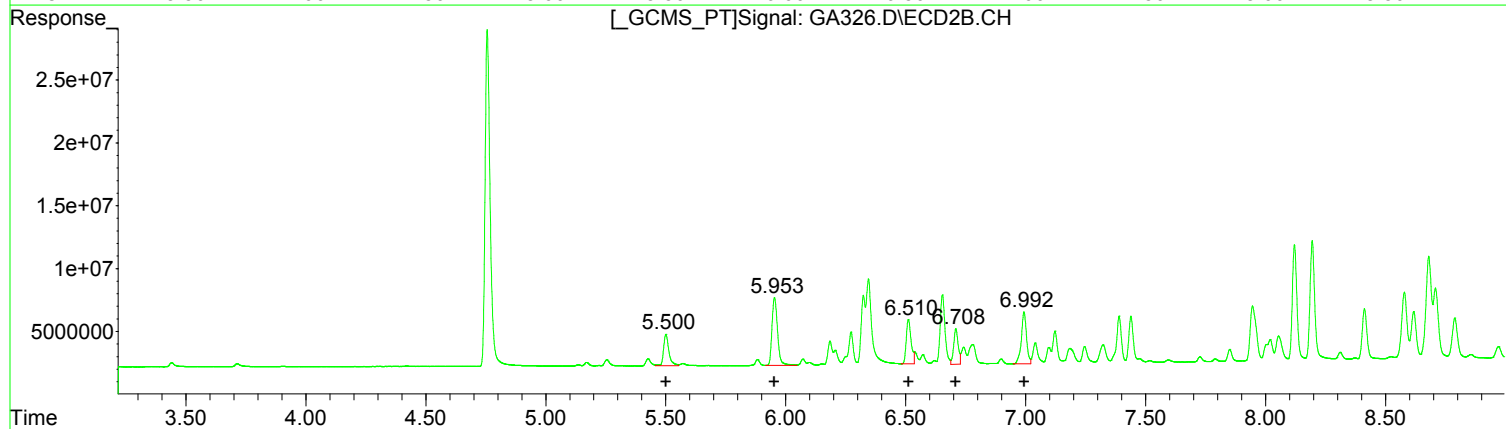
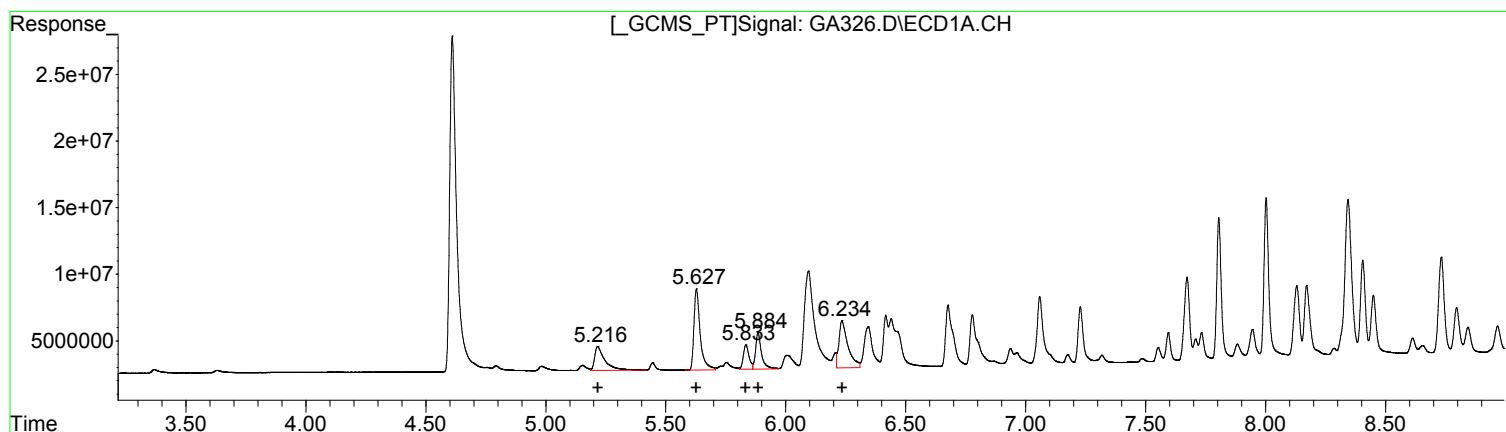
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	54266611	161.76
5.63	110203655	156.48
5.83	30347255	151.23
5.88	46673740	168.86
6.23	92503837	149.82

Manual Integration:  
After  
Poor integration.  
01/11/18

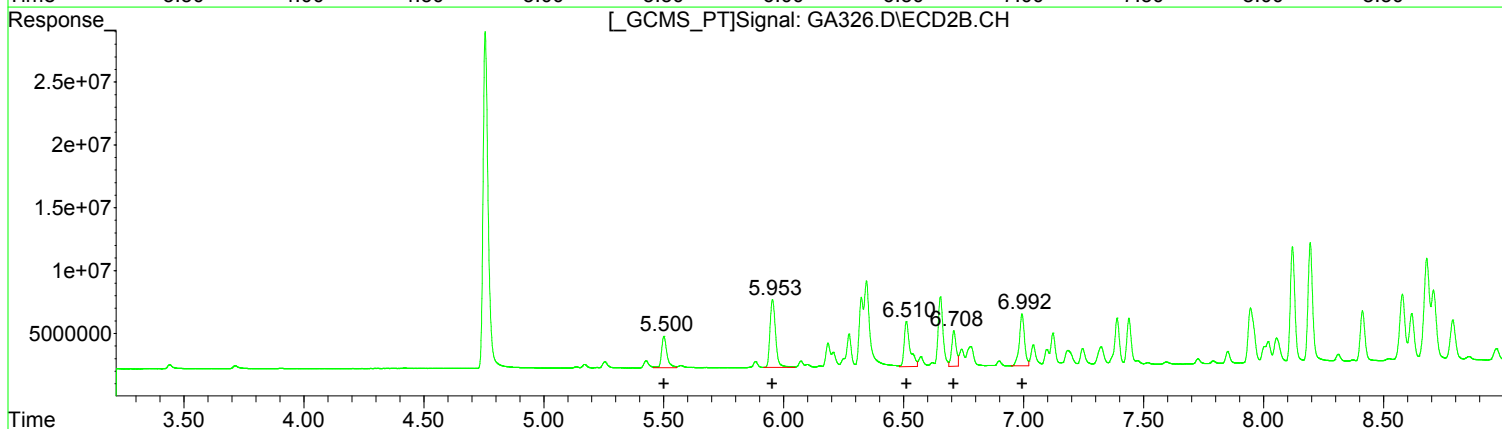
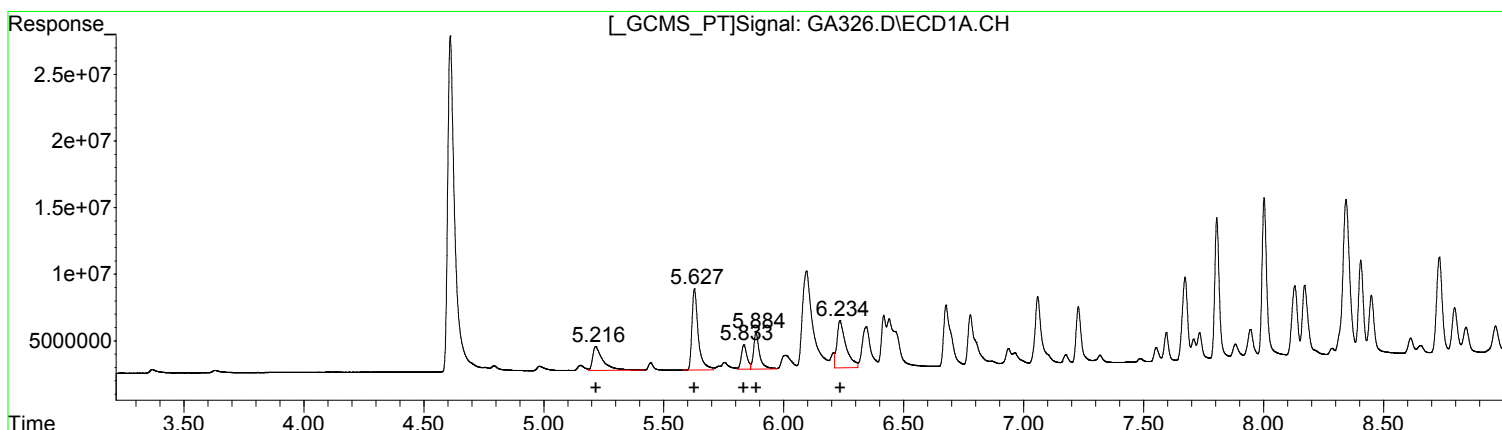
(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	38401882	139.32
5.95	86648839	141.34
6.51	49847556	136.37
6.71	36958640	152.15
6.99	61690075	141.73

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.22	54266611	161.76
5.63	110203655	156.48
5.83	30347255	151.23
5.88	46673740	168.86
6.23	92503837	149.82

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	38401882	139.32
5.95	86648839	141.34
6.51	60590283	165.76
6.71	36958640	152.15
6.99	61690075	141.73

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	523.2E6	394.6E6	28.474	25.557
Spiked Amount	100.000	Range	30 - 150	Recovery	= 28.47%#	25.56%#
2) S SURR2, Dec...	11.375	12.682	422.9E6	338.8E6	32.554	29.985
Spiked Amount	100.000	Range	30 - 150	Recovery	= 32.55%	29.98%#
Target Compounds						
3) L1c PCB 1016	5.216	5.501	54266611	38401882	161.765	139.321
4) L1c PCB 1016{2}	5.628	5.953	110.2E6	86648839	156.484	141.338
5) L1c PCB 1016{3}	5.834	6.510	30347255	49847556	151.225	136.372m
6) L1c PCB 1016{4}	5.884	6.709	46673740	36958640	168.861	152.151
7) L1c PCB 1016{5}	6.234	6.993	92503837	61690075	149.816	141.730
Sum PCB 1016			334.0E6	273.5E6	788.151	710.912
Average PCB 1016					157.630	142.182
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.194	146.0E6	134.6E6	171.958	169.728
34) L7c PCB 1260{2}	8.002	9.174	181.5E6	79542636	178.503	164.190
35) L7c PCB 1260{3}	8.732	9.339	125.0E6	186.6E6	182.005	161.937
36) L7C PCB 1260{4}	9.050	10.075	224.0E6	106.2E6	174.782	168.504
37) L7C PCB 1260{5}	10.488	10.949	54118653	65398335	168.032	163.045
Sum PCB 1260			730.6E6	572.4E6	875.279	827.403
Average PCB 1260					175.056	165.481
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

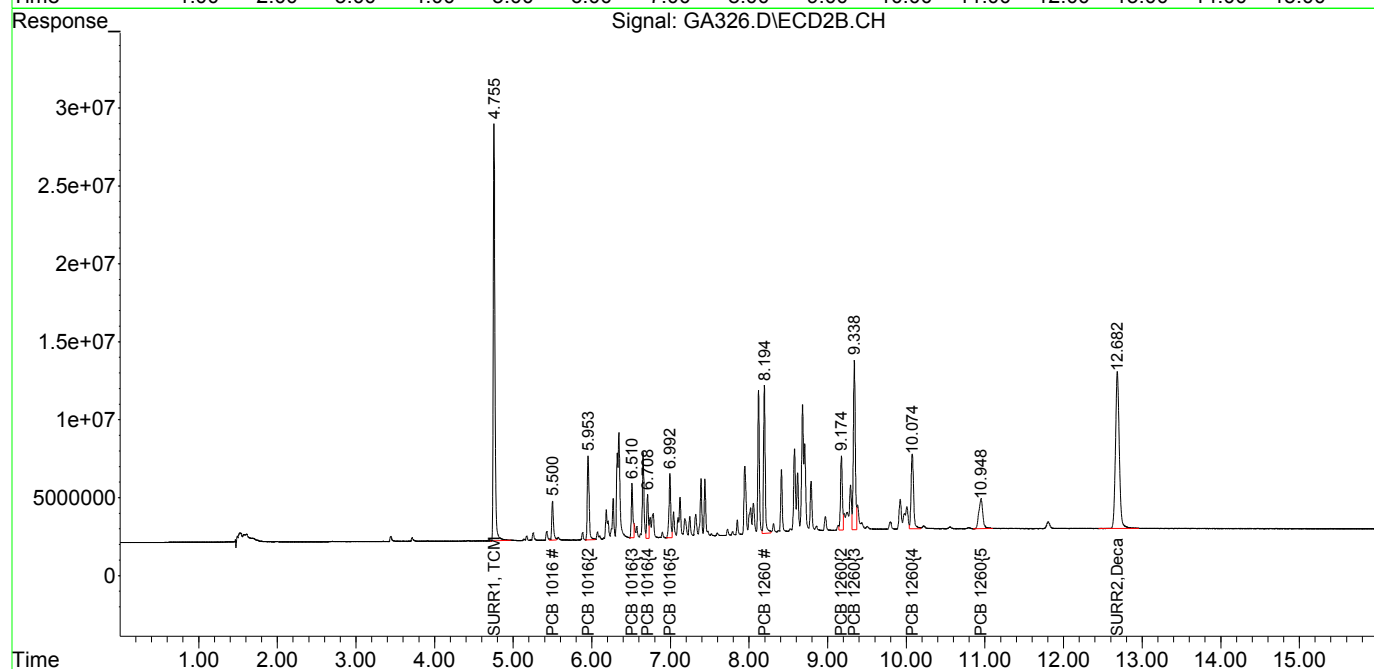
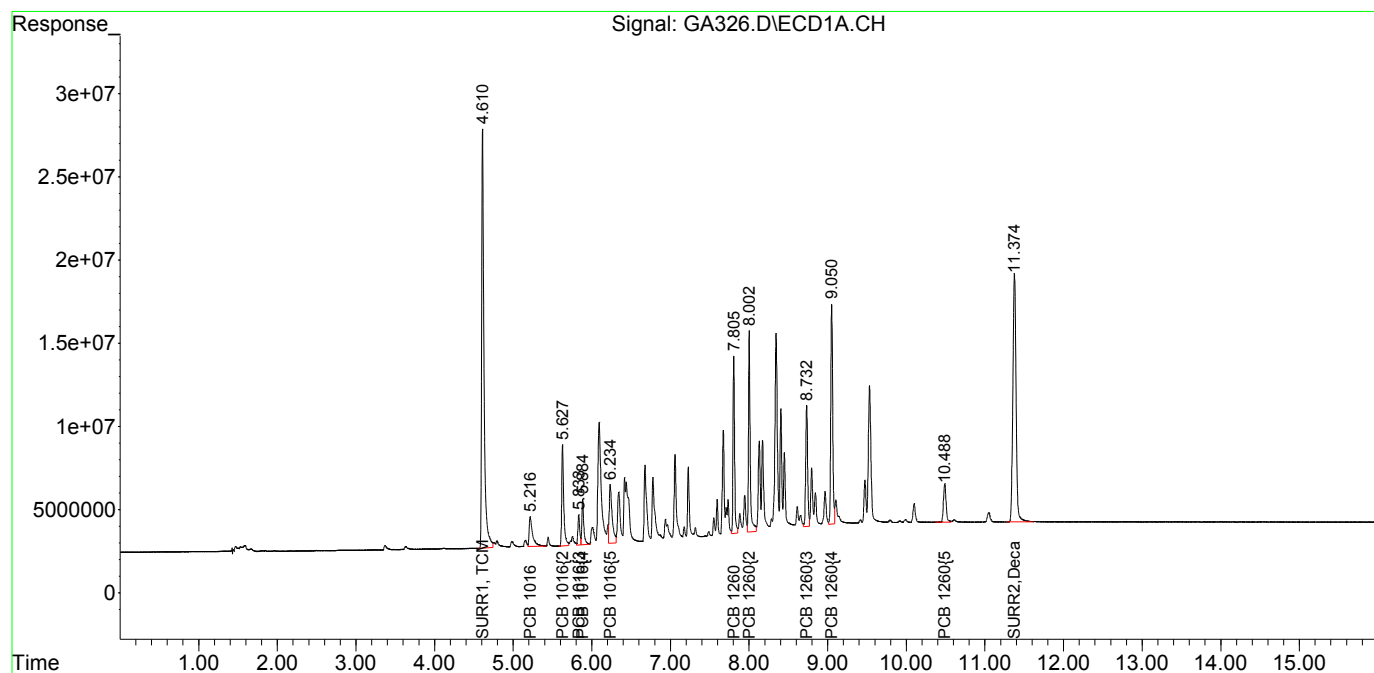
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA327.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 9:11 am  
 Operator : M.Pedro  
 Sample : ar1660ml  
 Misc : initial cal  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:12:53 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:12:44 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	1015.2E6	763.1E6	58.413	55.263
Spiked Amount	100.000	Range	30 - 150	Recovery	= 58.41%	55.26%
2) S SURR2, Dec...	11.373	12.686	804.4E6	645.6E6	59.764	57.116
Spiked Amount	100.000	Range	30 - 150	Recovery	= 59.76%	57.12%
Target Compounds						
3) L1c PCB 1016	5.215	5.500	120.5E6	83070136	380.360	341.192
4) L1c PCB 1016{2}	5.628	5.951	240.9E6	187.6E6	354.660	335.921
5) L1c PCB 1016{3}	5.833	6.512	68111951	132.0E6	366.641	407.211
6) L1c PCB 1016{4}	5.885	6.709	103.3E6	79736175	377.230	347.956
7) L1c PCB 1016{5}	6.234	6.993	226.9E6	134.7E6	377.323	340.863
Sum PCB 1016			759.8E6	617.1E6	1856.215	1773.143
Average PCB 1016					371.243	354.629
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.194	313.0E6	290.1E6	370.523	364.115
34) L7c PCB 1260{2}	8.002	9.175	383.2E6	177.1E6	364.107	369.326
35) L7c PCB 1260{3}	8.733	9.339	275.0E6	422.4E6	384.904	371.376
36) L7C PCB 1260{4}	9.050	10.076	506.0E6	237.7E6	383.382	374.339
37) L7C PCB 1260{5}	10.488	10.951	125.1E6	150.4E6	390.707	377.175
Sum PCB 1260			1602.2E6	1277.8E6	1893.622	1856.331
Average PCB 1260					378.724	371.266
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

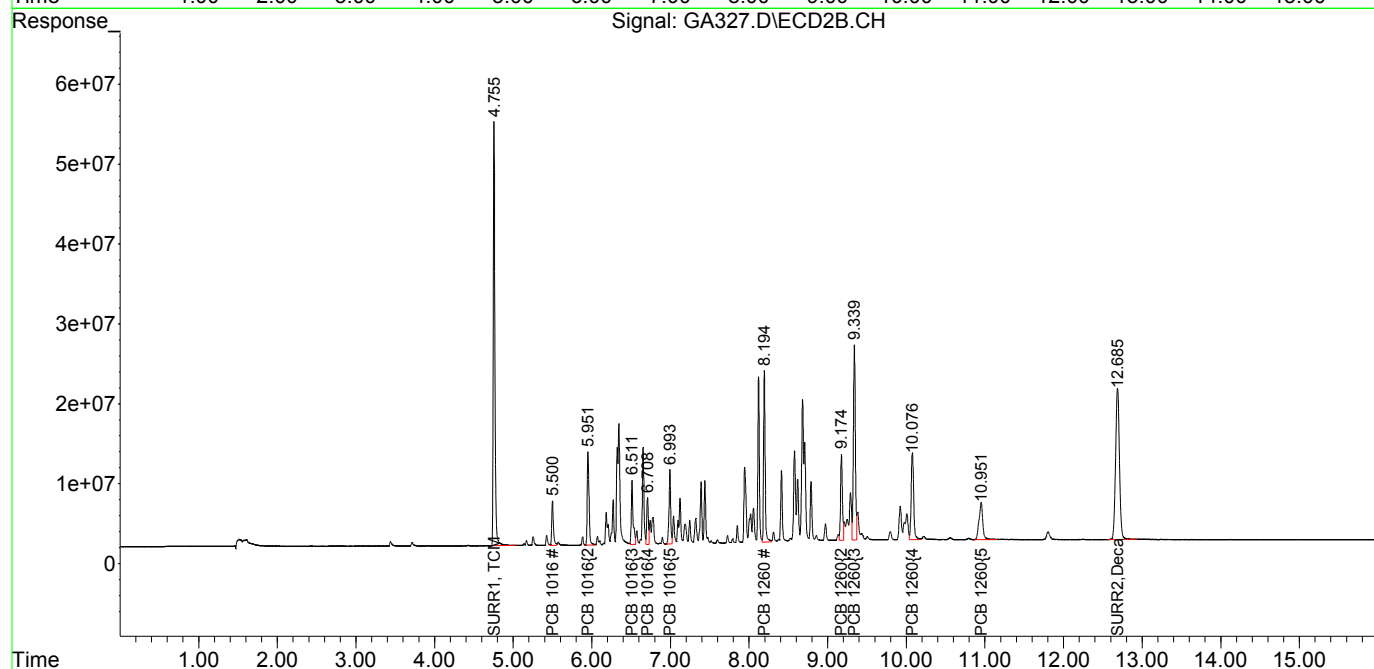
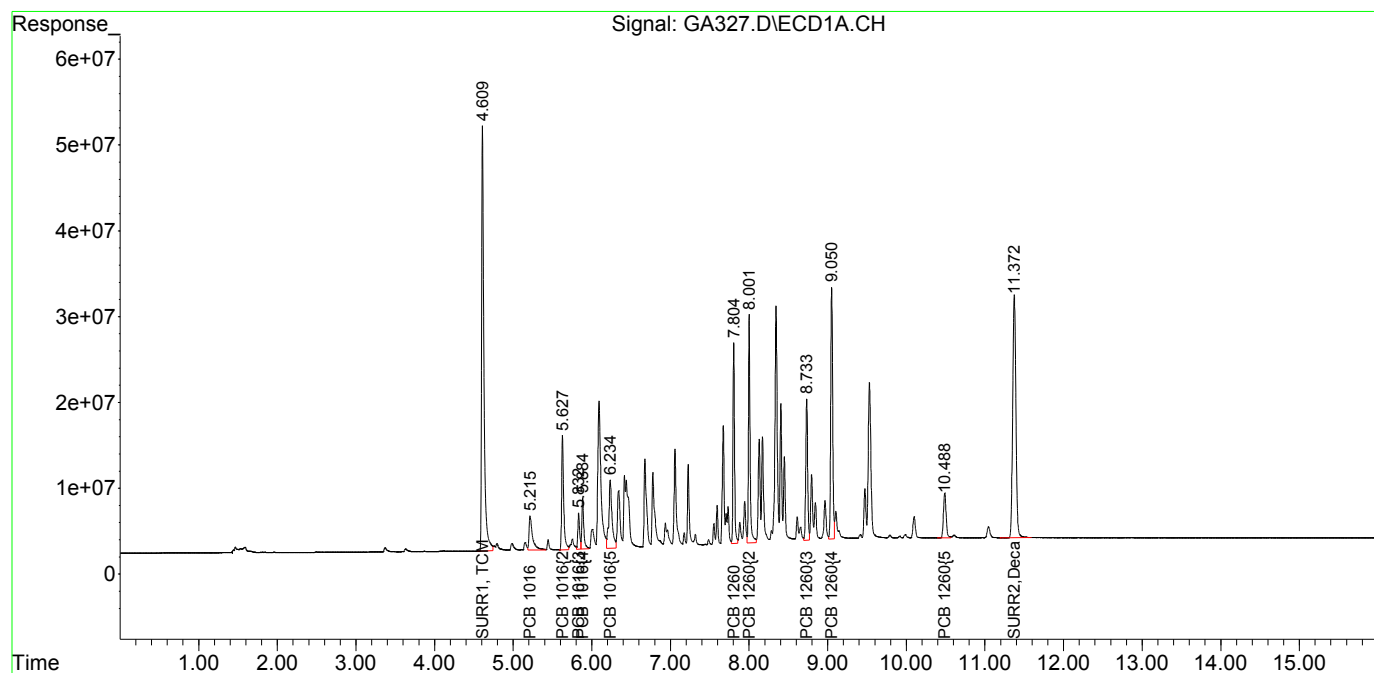
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA327.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:11 am  
Operator : M.Pedro  
Sample : ar1660ml  
Misc : initial cal  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:12:53 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:12:44 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

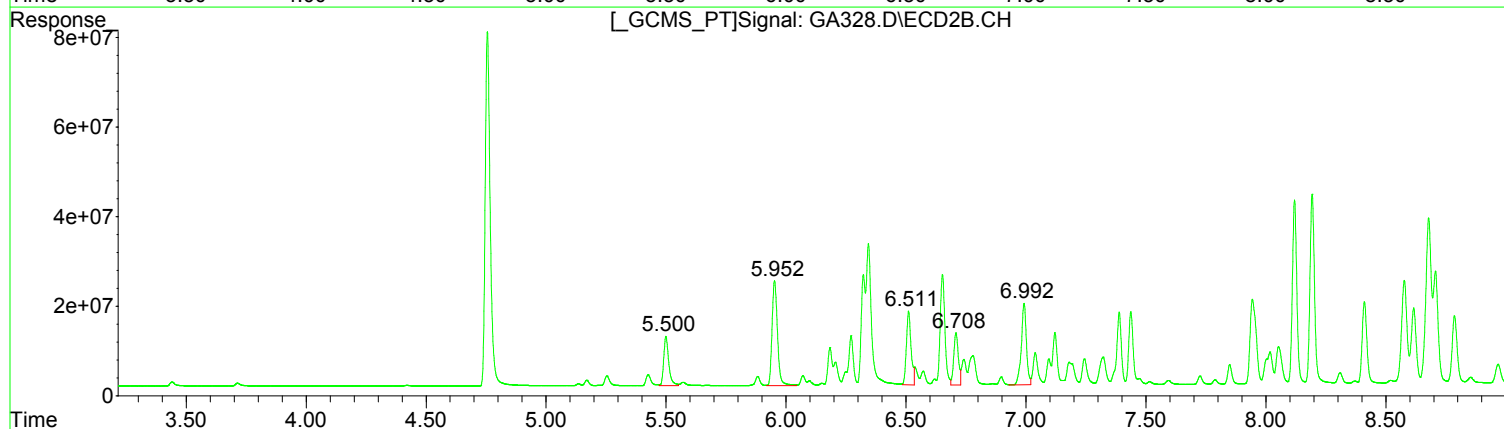
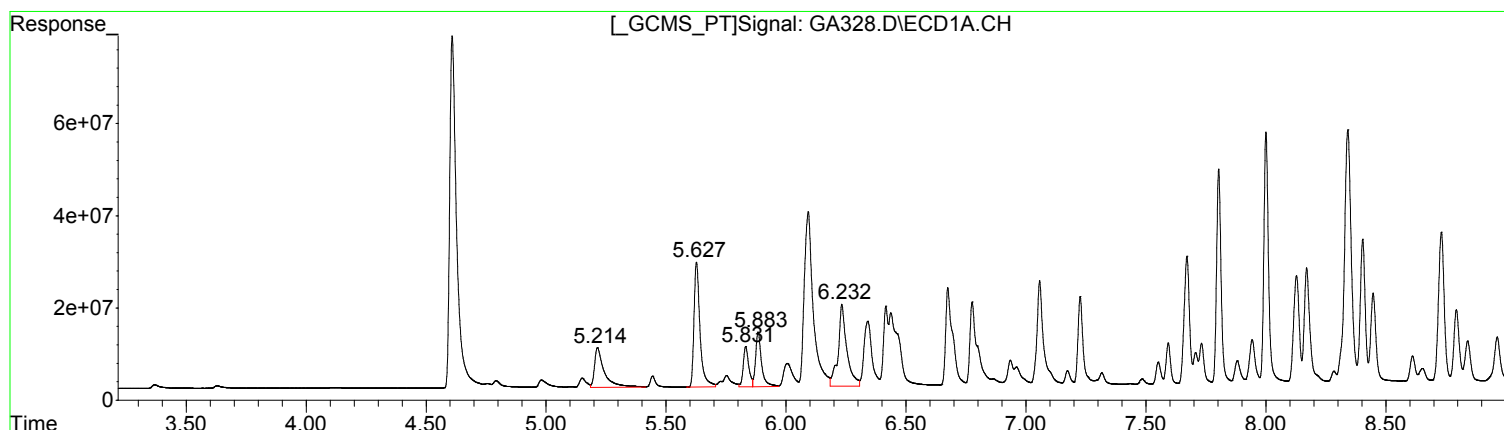
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA328.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:31 am  
Operator : M.Pedro  
Sample : ar1660m  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:13:39 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:13:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	245474491	741.24
5.63	472572344	672.11
5.83	139069609	724.74
5.88	204599786	707.58
6.23	450297515	711.27

(3) PCB 1016 #2 (L1c)

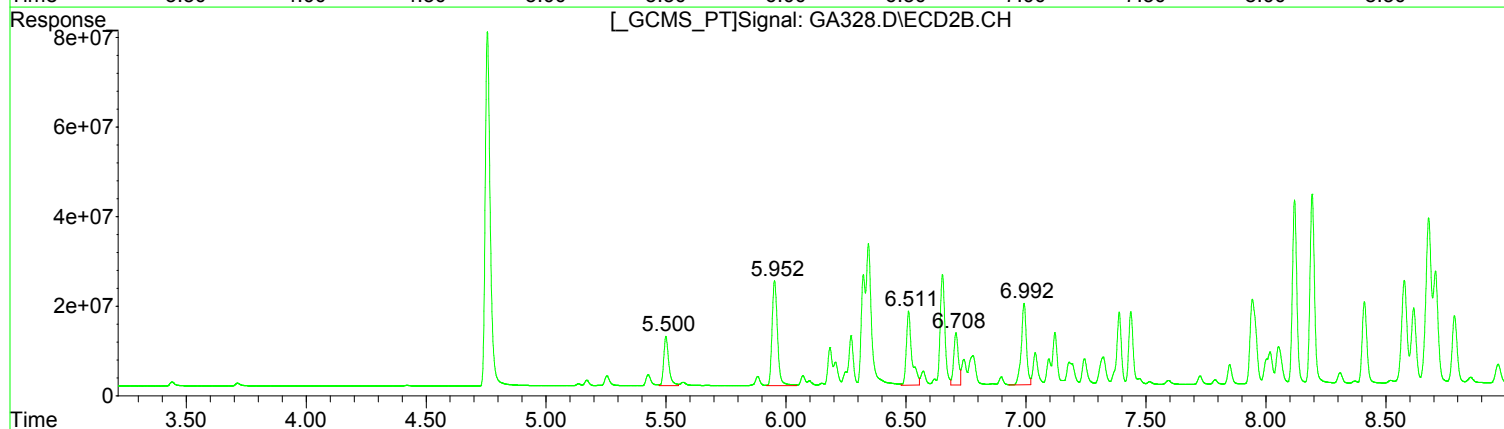
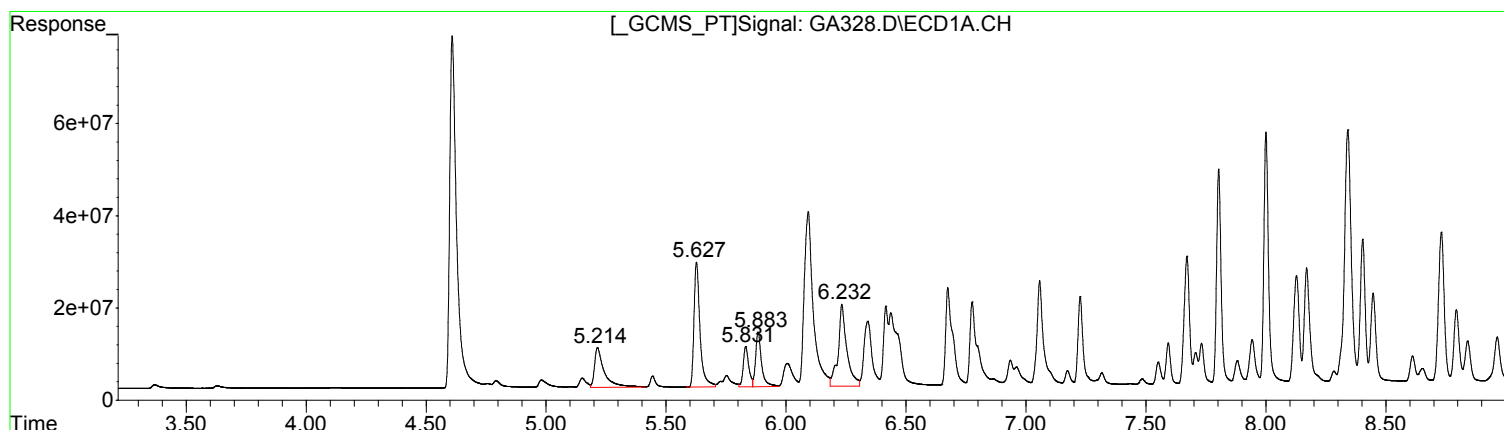
R.T.	Response	Conc
5.50	159796673	650.66
5.95	364955134	643.87
6.51	222945876	651.80
6.71	156336003	662.82
6.99	269685224	670.44

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA328.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:31 am  
Operator : M.Pedro  
Sample : ar1660m  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:13:39 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:13:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.21	245474491	741.24
5.63	472572344	672.11
5.83	139069609	724.74
5.88	204599786	707.58
6.23	450297515	711.27

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	159796673	650.66
5.95	364955134	643.87
6.51	262995235	768.89
6.71	156336003	662.82
6.99	269685224	670.44

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA328.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 9:31 am  
 Operator : M.Pedro  
 Sample : ar1660m  
 Misc : initial cal  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:13:39 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:13:31 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1546.1E6	1153.0E6	85.854	82.382
Spiked Amount	100.000	Range	30 - 150	Recovery =	85.85%	82.38%
2) S SURR2, Dec...	11.371	12.682	1177.1E6	940.0E6	81.737	79.149
Spiked Amount	100.000	Range	30 - 150	Recovery =	81.74%	79.15%
Target Compounds						
3) L1c PCB 1016	5.214	5.500	245.5E6	159.8E6	741.236	650.657
4) L1c PCB 1016{2}	5.627	5.952	472.6E6	365.0E6	672.109	643.872
5) L1c PCB 1016{3}	5.832	6.511	139.1E6	222.9E6	724.738	651.801m
6) L1c PCB 1016{4}	5.884	6.709	204.6E6	156.3E6	707.584	662.821
7) L1c PCB 1016{5}	6.233	6.992	450.3E6	269.7E6	711.273	670.438
Sum PCB 1016			1512.0E6	1173.7E6	3556.939	3279.589
Average PCB 1016					711.388	655.918
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.804	8.193	614.5E6	572.5E6	683.636	677.733
34) L7c PCB 1260{2}	8.001	9.174	748.6E6	358.3E6	669.830	706.884
35) L7c PCB 1260{3}	8.732	9.336	547.6E6	860.9E6	718.190	716.400
36) L7C PCB 1260{4}	9.049	10.073	1029.6E6	475.9E6	728.849	706.690
37) L7C PCB 1260{5}	10.486	10.948	250.3E6	296.7E6	730.373	701.955
Sum PCB 1260			3190.7E6	2564.3E6	3530.878	3509.661
Average PCB 1260					706.176	701.932
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

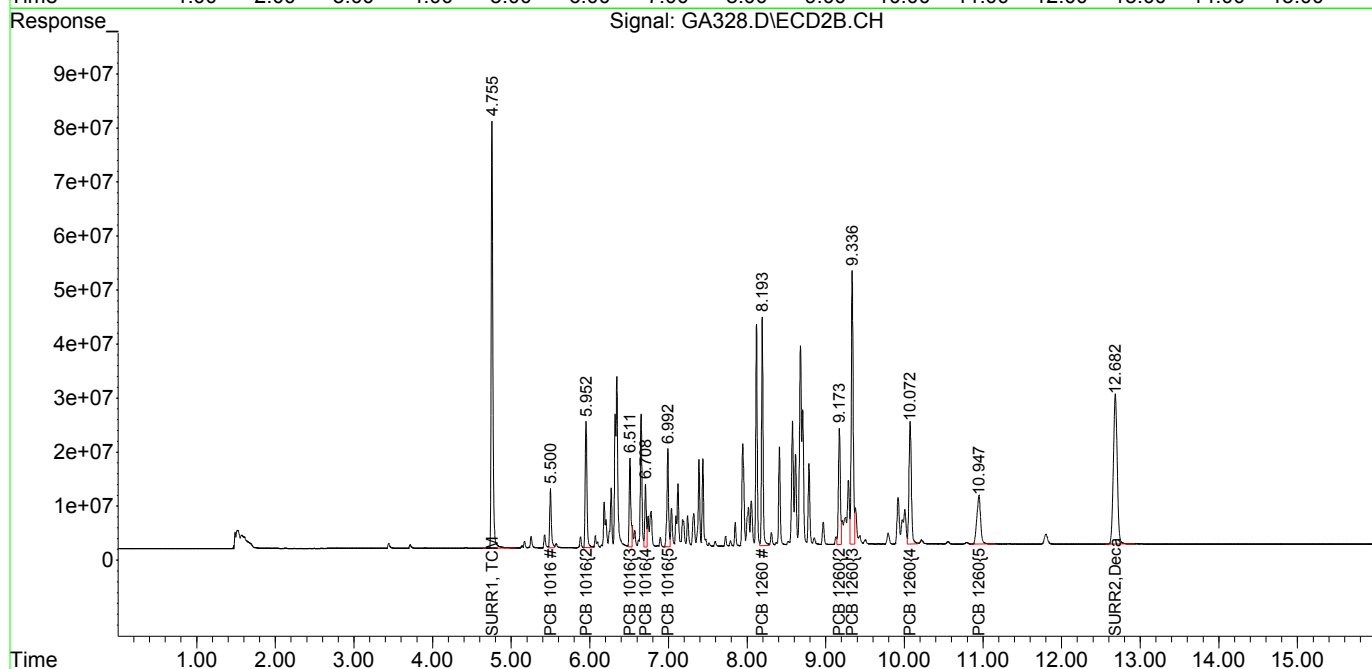
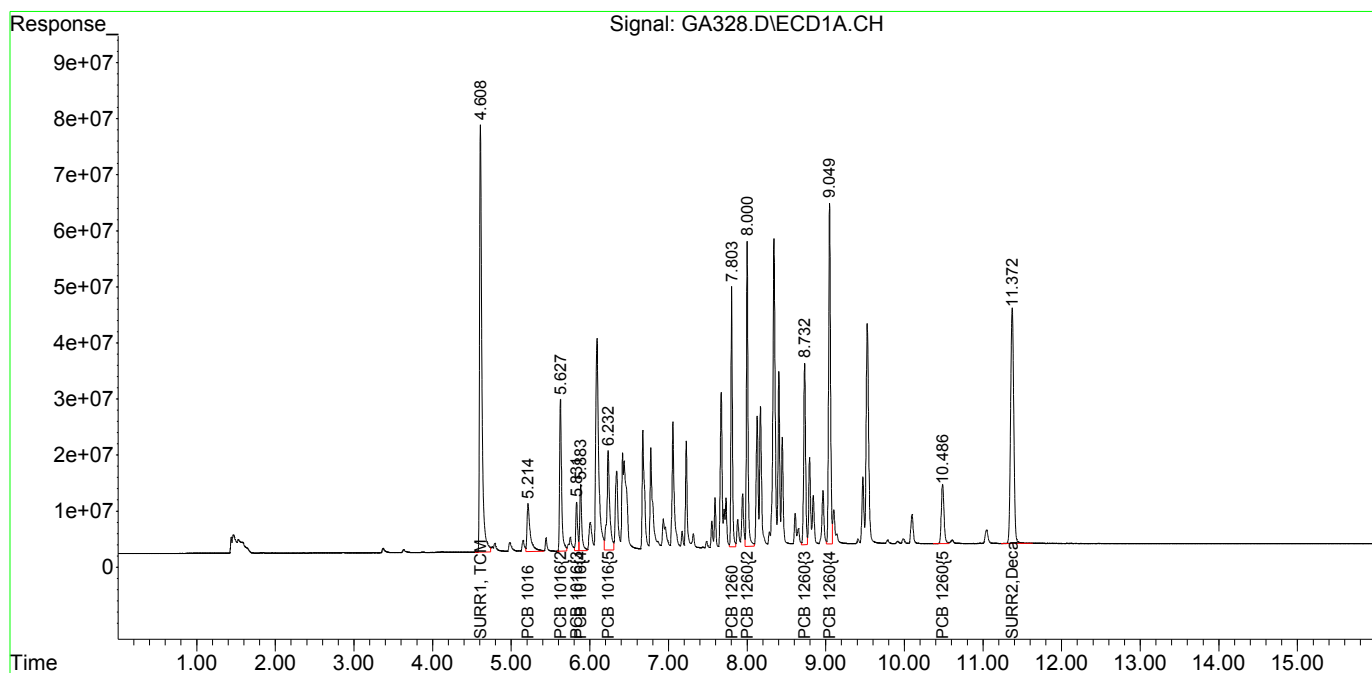
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA328.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:31 am  
Operator : M.Pedro  
Sample : ar1660m  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:13:39 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:13:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA329.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 9:51 am  
 Operator : M.Pedro  
 Sample : ar1660h  
 Misc : initial cal  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:14:49 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:14:40 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	2496.9E6	1854.6E6	135.535	133.032
Spiked Amount	100.000	Range	30 - 150	Recovery	= 135.54%	133.03%
2) S SURR2, Dec...	11.372	12.681	1968.3E6	1572.7E6	130.624	128.922
Spiked Amount	100.000	Range	30 - 150	Recovery	= 130.62%	128.92%
Target Compounds						
3) L1c PCB 1016	5.214	5.500	441.3E6	292.5E6	1281.037	1198.939
4) L1c PCB 1016{2}	5.626	5.952	870.2E6	667.3E6	1208.898	1176.557
5) L1c PCB 1016{3}	5.832	6.510	264.5E6	415.8E6	1345.835	1213.382m
6) L1c PCB 1016{4}	5.884	6.708	379.5E6	290.3E6	1259.673	1214.078
7) L1c PCB 1016{5}	6.233	6.993	832.7E6	505.7E6	1264.515	1250.369
Sum PCB 1016			2788.2E6	2171.7E6	6359.958	6053.324
Average PCB 1016					1271.992	1210.665
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.804	8.194	1159.2E6	1072.0E6	1227.003	1226.136
34) L7c PCB 1260{2}	8.001	9.175	1415.8E6	677.5E6	1203.097	1282.056
35) L7c PCB 1260{3}	8.731	9.340	1053.8E6	1656.4E6	1303.943	1324.435
36) L7C PCB 1260{4}	9.049	10.076	2010.3E6	922.1E6	1346.222	1311.700
37) L7C PCB 1260{5}	10.487	10.951	492.1E6	583.9E6	1360.909	1329.406
Sum PCB 1260			6131.3E6	4912.0E6	6441.175	6473.733
Average PCB 1260					1288.235	1294.747
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

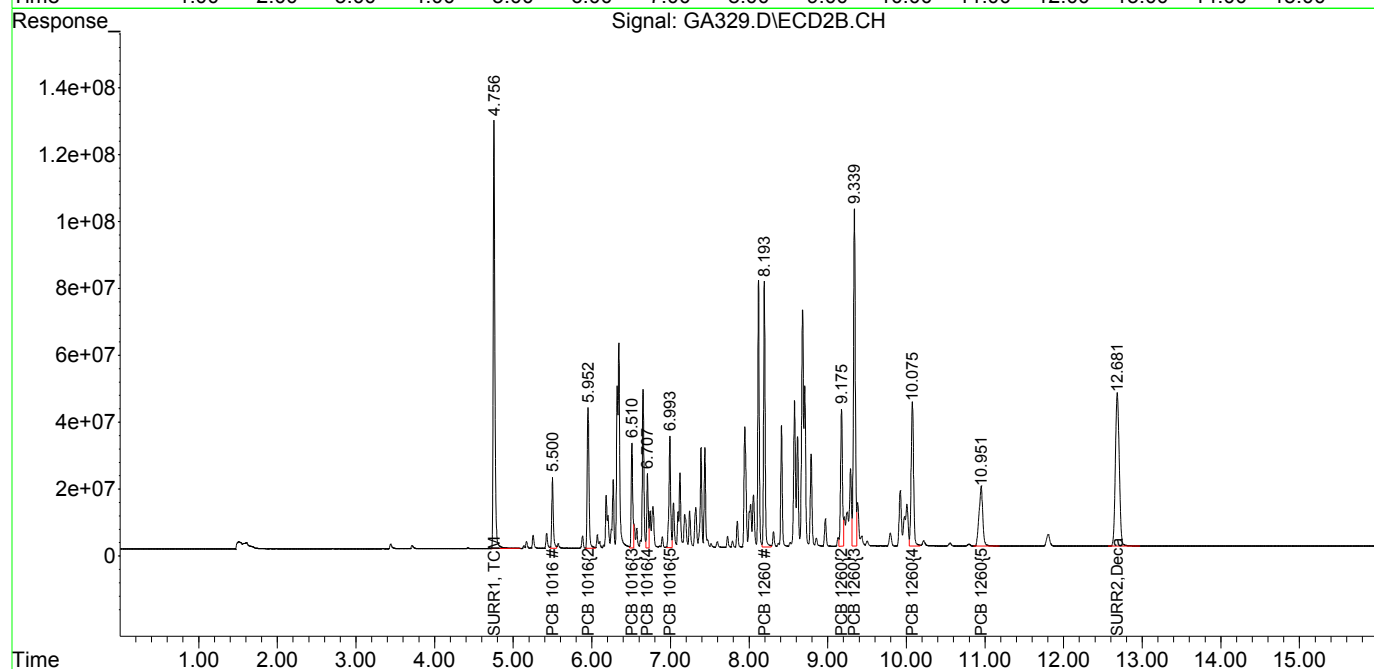
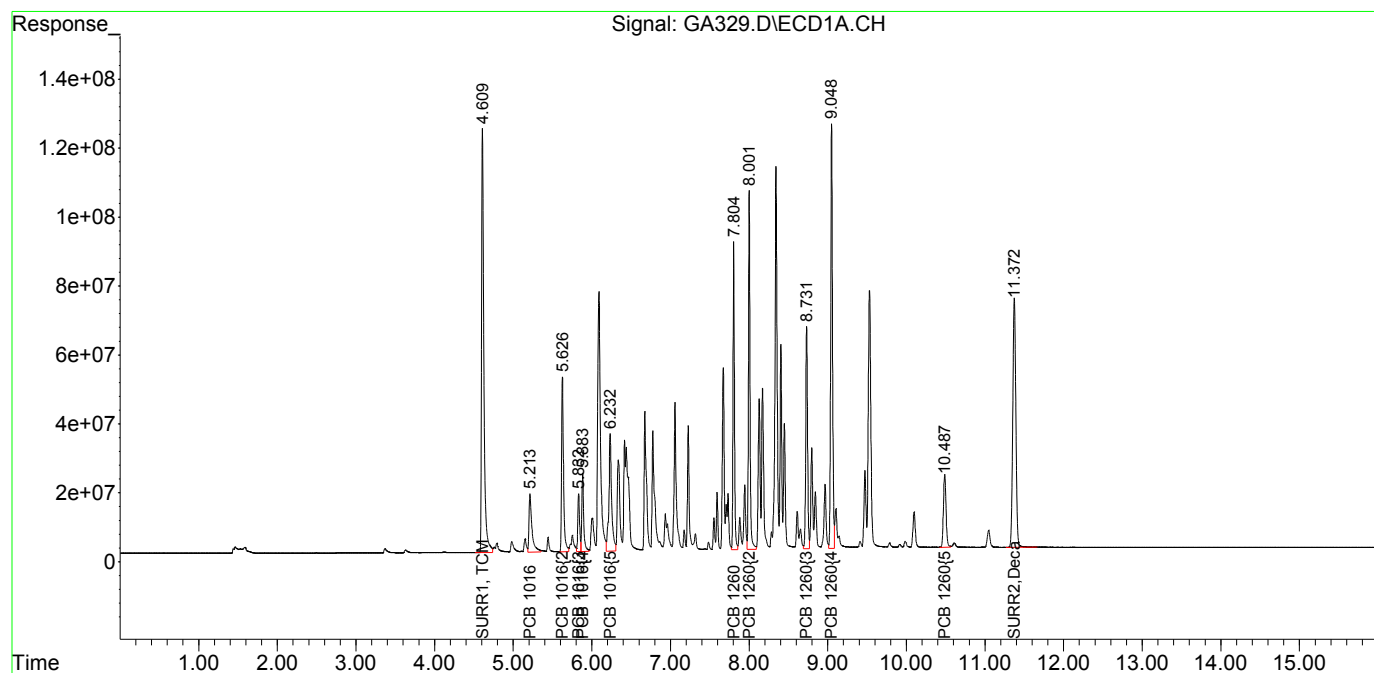
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA329.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:51 am  
Operator : M.Pedro  
Sample : ar1660h  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:14:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:14:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

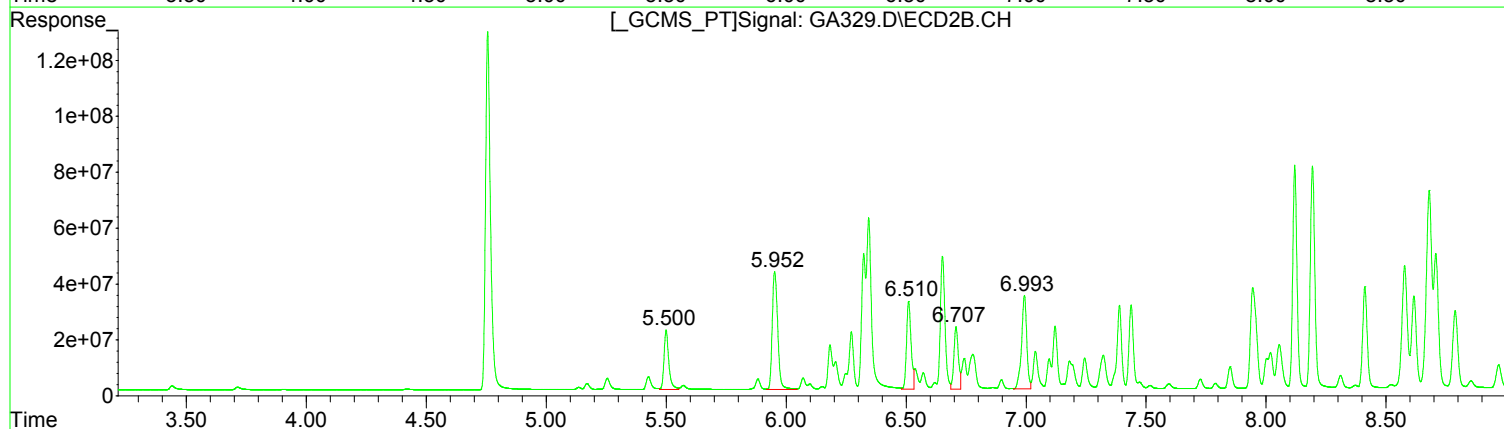
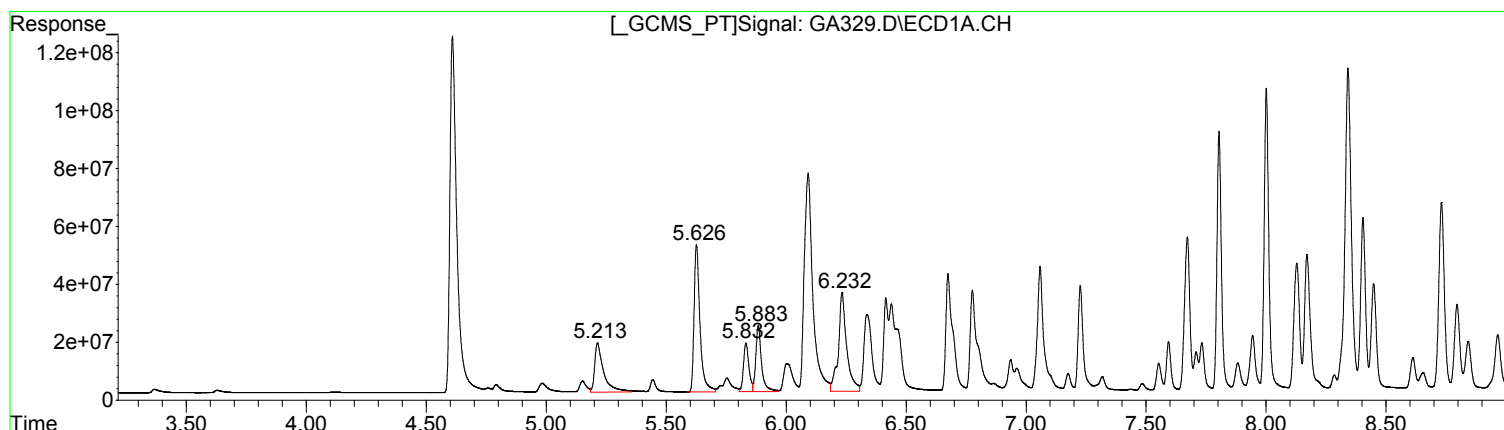
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA329.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:51 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:14:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:14:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase: DB-17  
Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	441315089	1281.04
5.63	870184822	1208.90
5.83	264506120	1345.84
5.88	379484709	1259.67
6.23	832724708	1264.52

(3) PCB 1016 #2 (L1c)

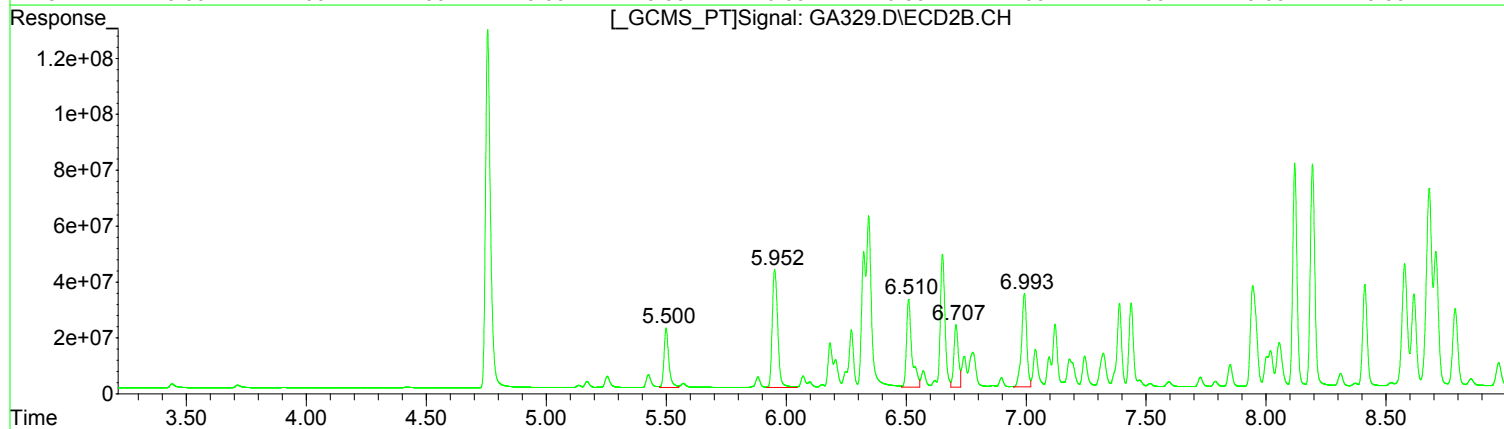
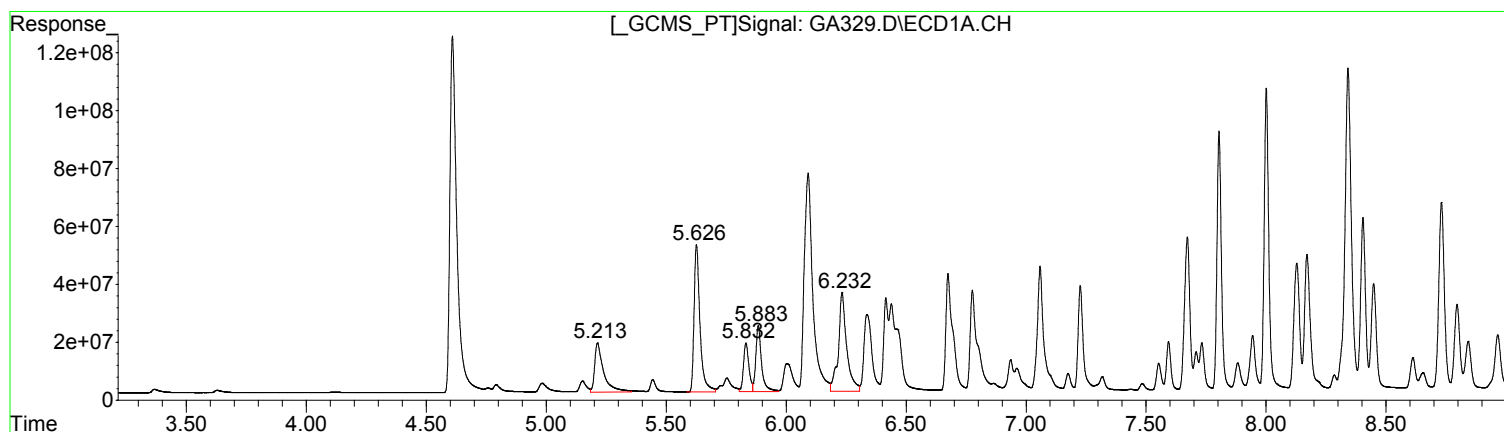
R.T.	Response	Conc
5.50	292491954	1198.94
5.95	667337892	1176.56
6.51	415791339	1213.38
6.71	290321067	1214.08
6.99	505712460	1250.37

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA329.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:51 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:14:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:14:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	441315089	1281.04
5.63	870184822	1208.90
5.83	264506120	1345.84
5.88	379484709	1259.67
6.23	832724708	1264.52

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	292491954	1198.94
5.95	667337892	1176.56
6.51	491219651	1433.50
6.71	290321067	1214.08
6.99	505712460	1250.37

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA330.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 10:11 am  
 Operator : M.Pedro  
 Sample : ar1660mh  
 Misc : initial cal  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:15:53 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:15:46 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1821.9E6	1350.6E6	80.851	79.526
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.85%	79.53%
2) S SURR2, Dec...	11.371	12.685	1420.7E6	1136.9E6	77.686	76.975
Spiked Amount	100.000	Range	30 - 150	Recovery	= 77.69%	76.97%
Target Compounds						
3) L1c PCB 1016	5.214	5.500	318.5E6	207.5E6	739.749	690.550
4) L1c PCB 1016{2}	5.627	5.952	611.8E6	469.4E6	688.410	674.215
5) L1c PCB 1016{3}	5.833	6.510	181.9E6	341.1E6	731.868	804.436
6) L1c PCB 1016{4}	5.884	6.708	265.0E6	203.0E6	706.330	687.261
7) L1c PCB 1016{5}	6.233	6.992	579.6E6	350.5E6	704.242	696.622
Sum PCB 1016			1956.8E6	1571.5E6	3570.598	3553.084
Average PCB 1016					714.120	710.617
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.194	798.7E6	744.0E6	682.698	687.237
34) L7c PCB 1260{2}	8.002	9.175	975.3E6	469.9E6	672.126	710.611
35) L7c PCB 1260{3}	8.733	9.337	717.8E6	1137.4E6	707.463	721.129
36) L7C PCB 1260{4}	9.050	10.076	1361.1E6	629.1E6	720.065	711.444
37) L7C PCB 1260{5}	10.488	10.948	333.3E6	396.2E6	726.201	714.504
Sum PCB 1260			4186.2E6	3376.7E6	3508.555	3544.925
Average PCB 1260					701.711	708.985
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

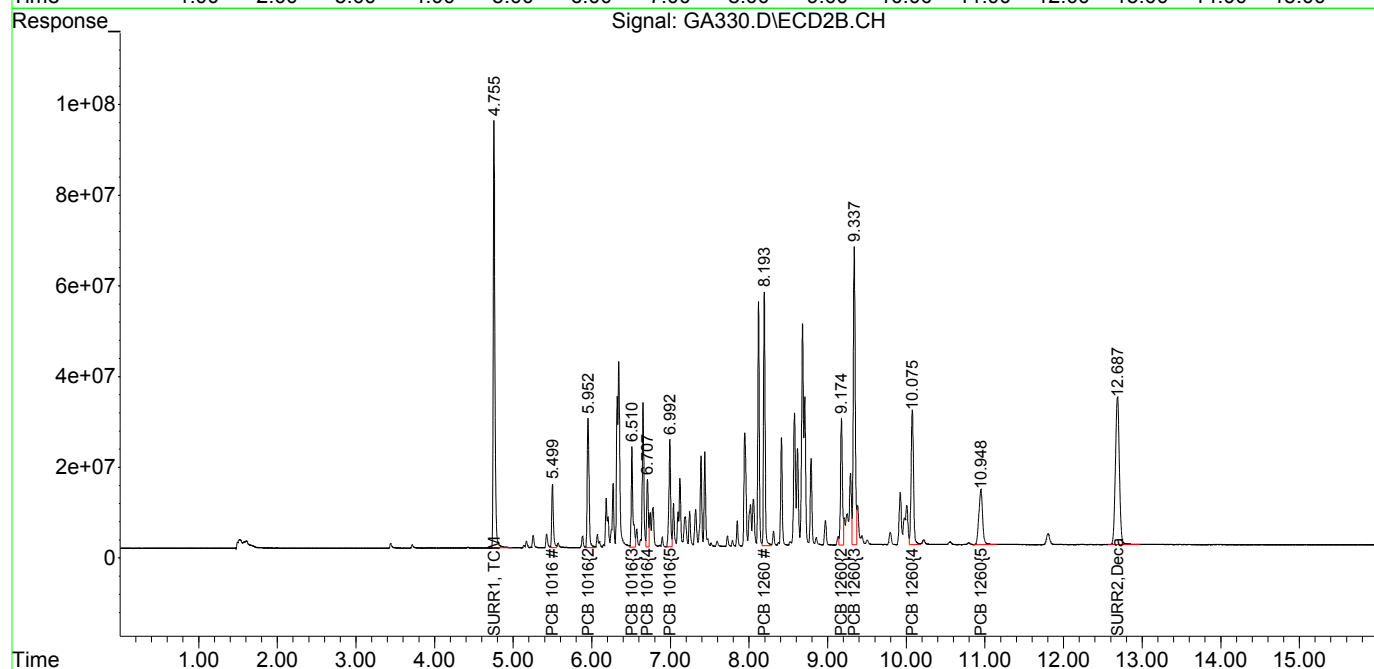
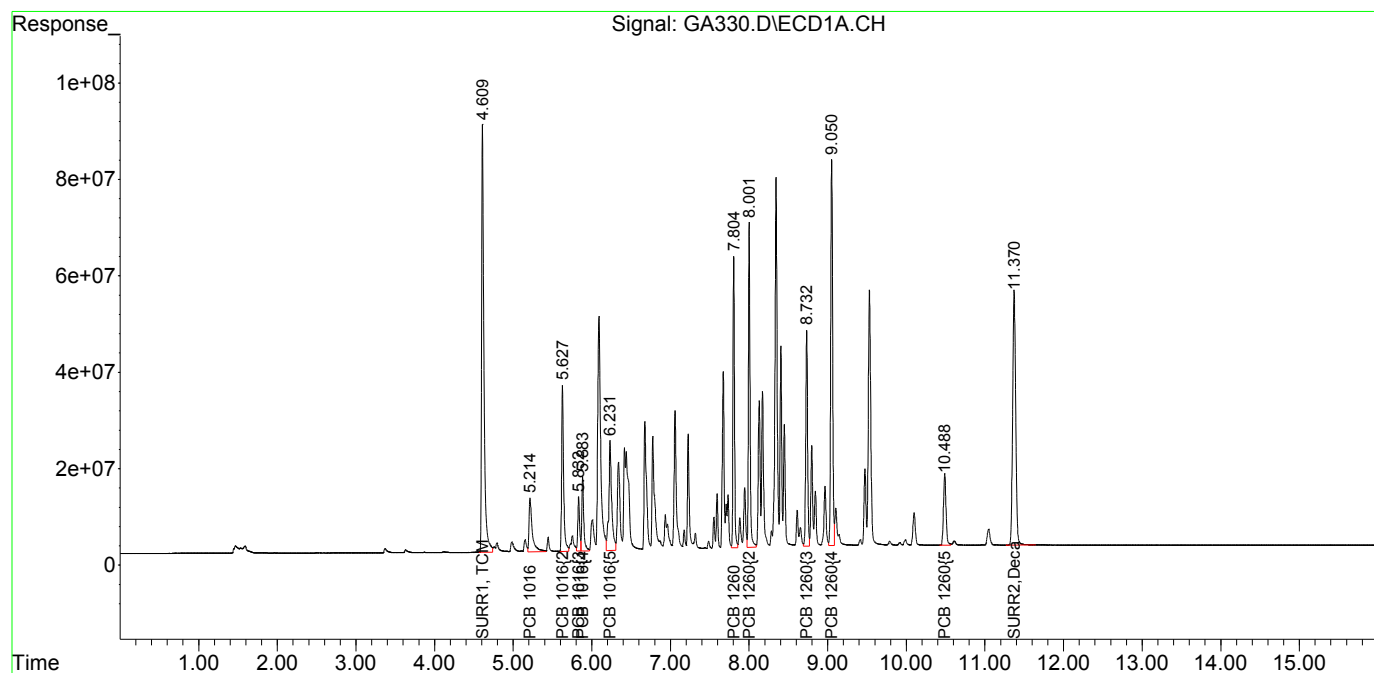
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA330.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:11 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:15:53 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:15:46 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA331.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 10:30 am  
 Operator : M.Pedro  
 Sample : ar1221/1254 1  
 Misc : initial cal  
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:19:02 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:18:22 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	512.9E6	392.6E6	20.353	20.713
Spiked Amount	100.000	Range	30 - 150	Recovery	= 20.35%#	20.71%#
2) S SURR2, Dec...	11.372	12.686	430.3E6	345.5E6	21.149	21.046
Spiked Amount	100.000	Range	30 - 150	Recovery	= 21.15%#	21.05%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.112	4.419	41965495	31815394	243.126	221.007
9) L2c PCB 1221{2}	4.982	5.254	56663508	45942307	235.154	221.128
10) L2c PCB 1221{3}	5.151	5.425	31099085	29575185	206.824	220.840
11) L2c PCB 1221{4}	5.217	5.501	145.8E6	91990384	246.297	217.011
12) L2c PCB 1221{5}	5.629	5.572	18956601	16672416	233.444	246.578
Sum PCB 1221			294.5E6	216.0E6	1164.845	1126.564
Average PCB 1221					232.969	225.313
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.486	7.438	51295955	90262491	138.481	129.986
29) L6c PCB 1254{2}	7.554	7.851	80132393	67594748	135.512	129.284
30) L6c PCB 1254{3}	7.664	8.063	182.3E6	100.4E6	147.004	128.831
31) L6c PCB 1254{4}	7.807	8.681	93969124	104.8E6	142.810	131.025
32) L6c PCB 1254{5}	8.726	9.242	44006379	51365470	134.673	126.428
Sum PCB 1254			451.7E6	414.4E6	698.480	645.554
Average PCB 1254					139.696	129.111
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

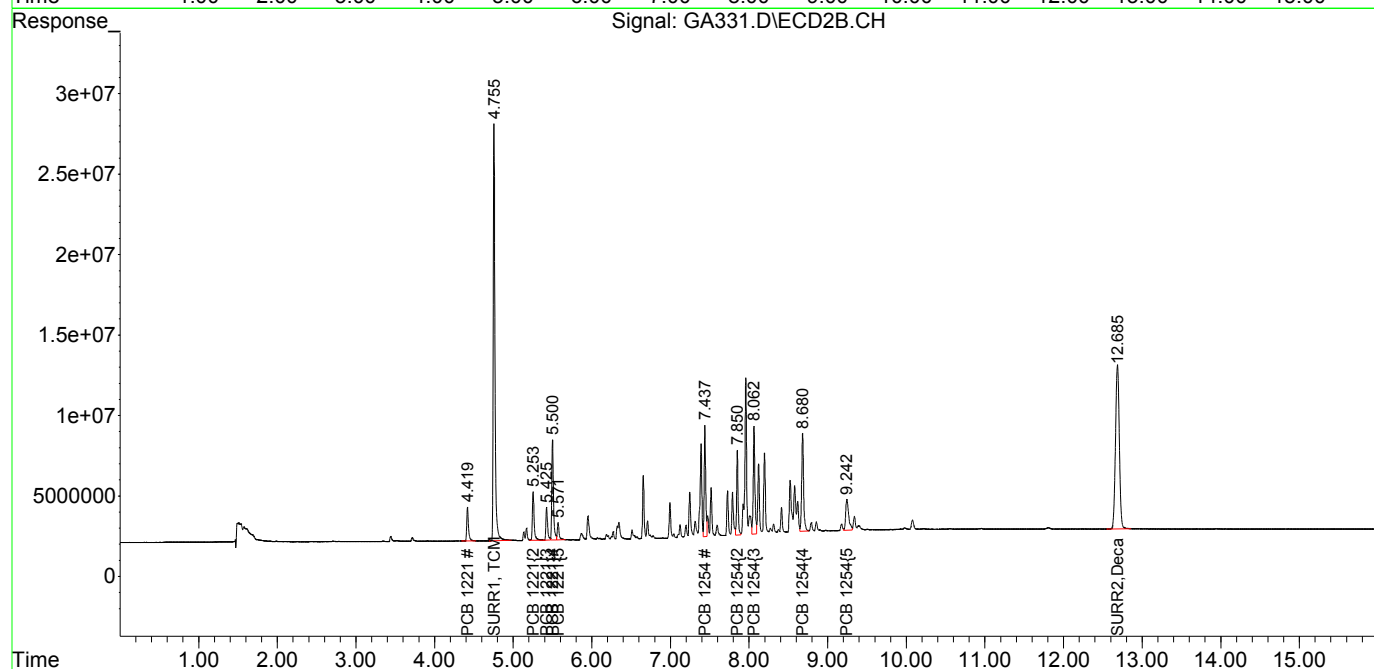
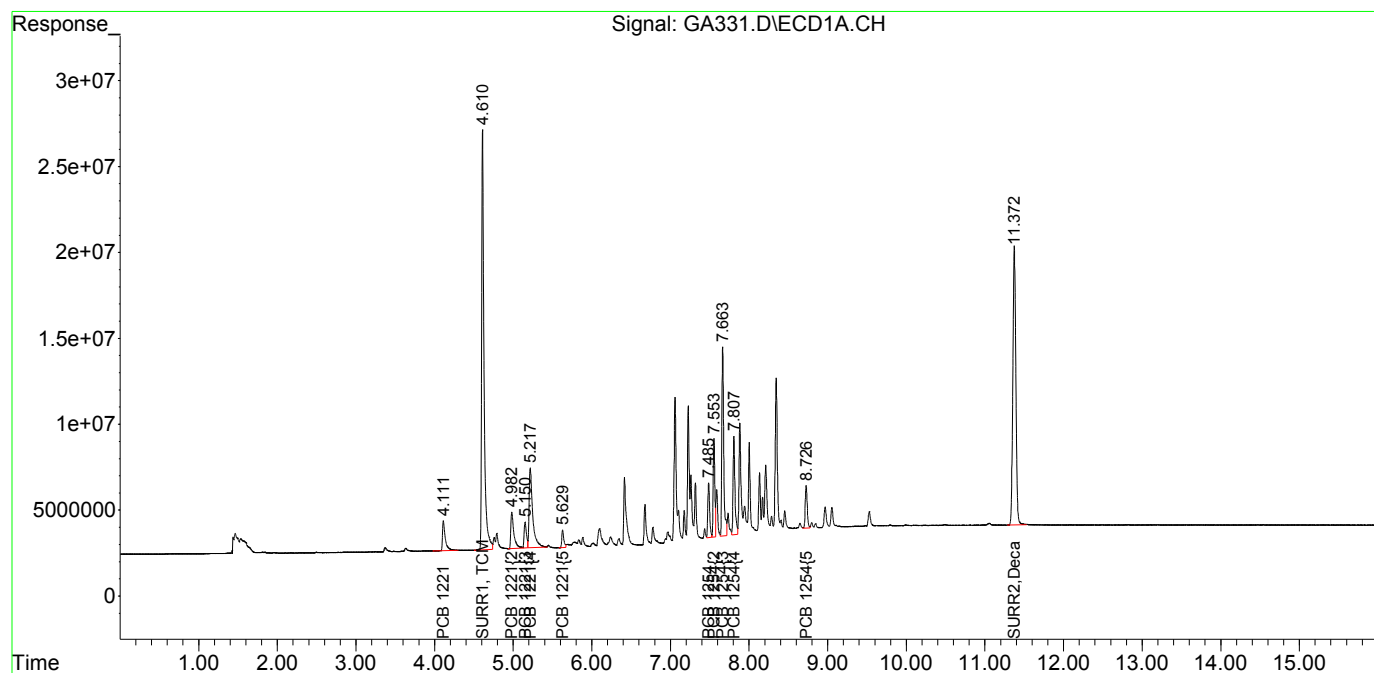
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA331.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:30 am  
Operator : M.Pedro  
Sample : ar1221/1254 1  
Misc : initial cal  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:19:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:18:22 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

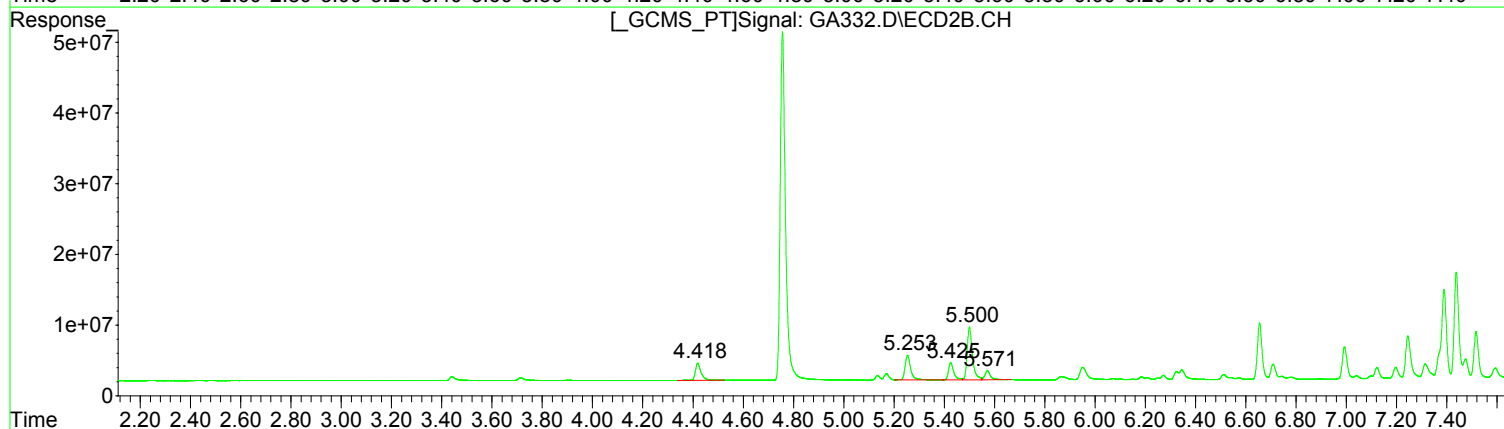
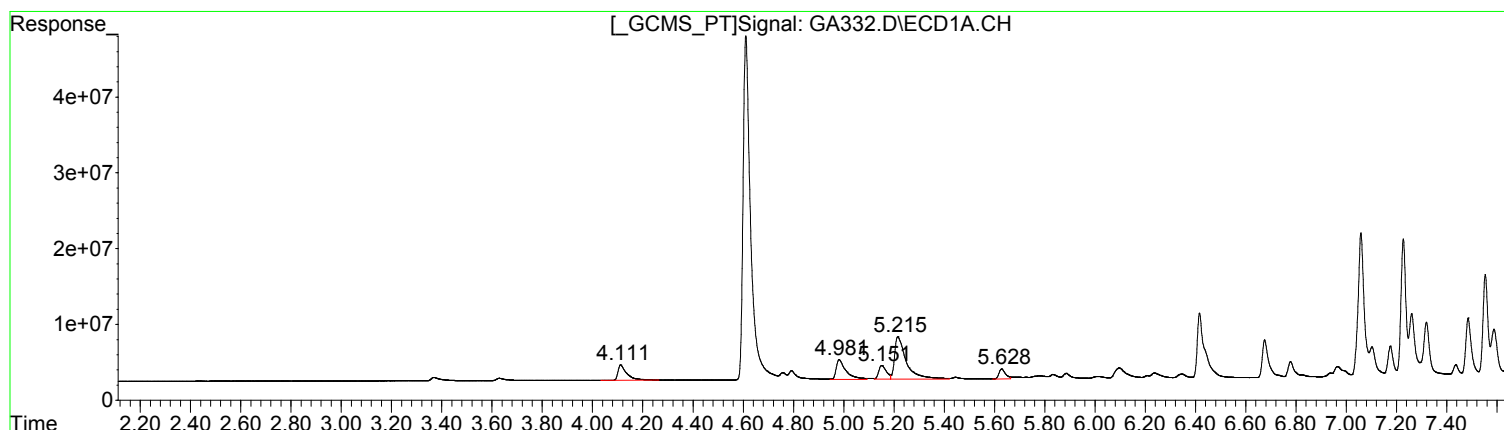
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase: DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) PCB 1221 (L2c)

R.T.	Response	Conc
4.11	49061894	267.00
4.98	71271822	277.52
5.15	39197273	256.00
5.22	181321991	284.51
5.63	24063805	274.85

(8) PCB 1221 #2 (L2c)

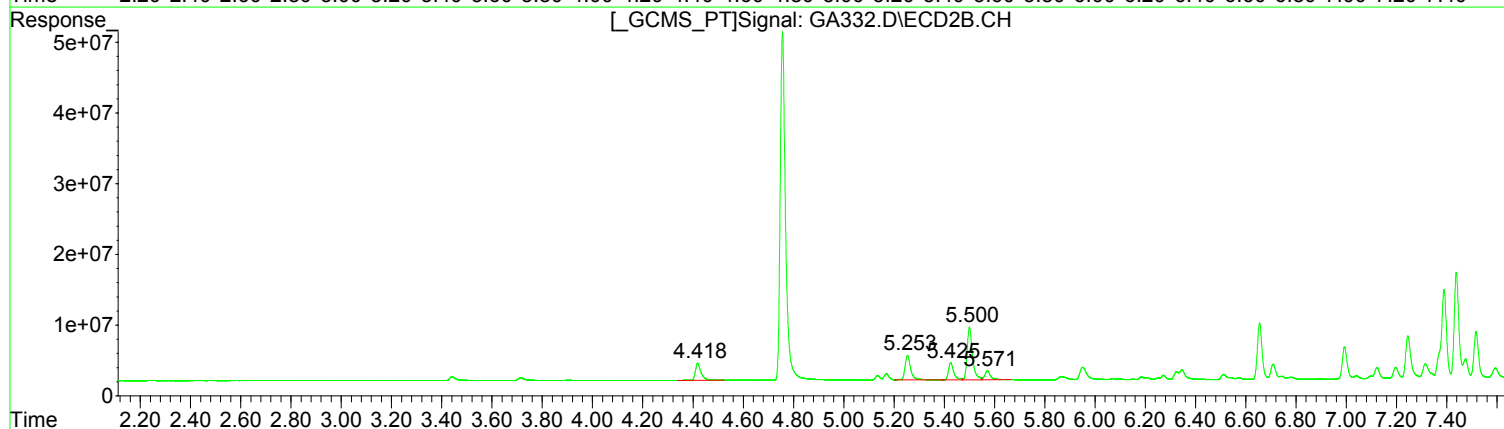
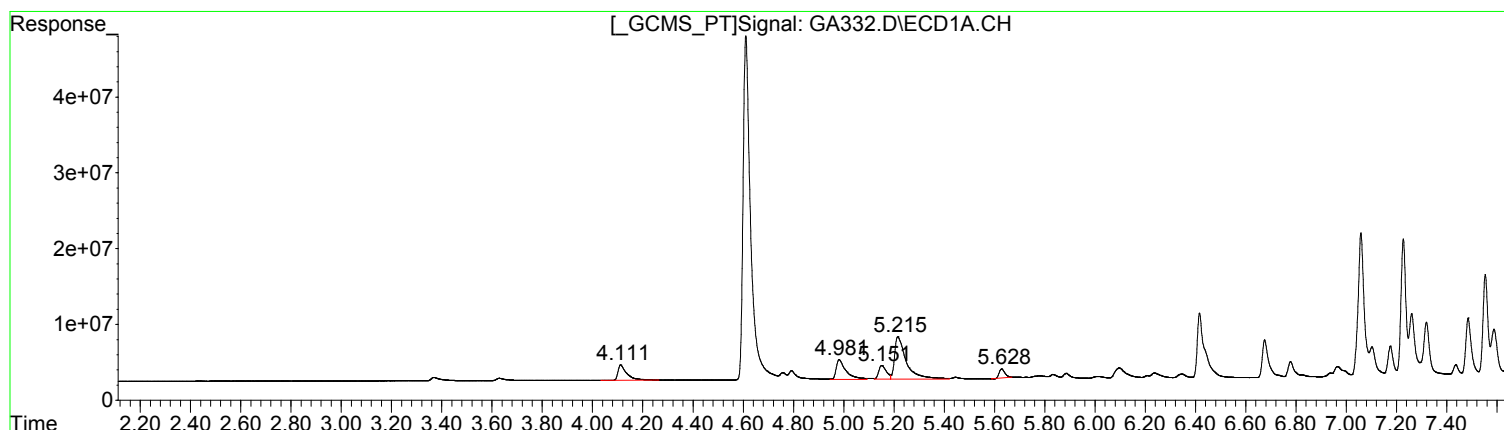
R.T.	Response	Conc
4.42	37522328	256.46
5.25	54658985	255.30
5.43	35421735	256.40
5.50	109260336	251.85
5.57	19845749	271.82

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) PCB 1221 (L2c)

R.T.	Response	Conc
4.11	49061894	267.00
4.98	71271822	277.52
5.15	39197273	256.00
5.22	181321991	284.51
5.63	18556664	211.95

Manual Integration:  
Before  
01/11/18

(8) PCB 1221 #2 (L2c)

R.T.	Response	Conc
4.42	37522328	256.46
5.25	54658985	255.30
5.43	35421735	256.40
5.50	109260336	251.85
5.57	19845749	271.82

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA332.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 10:50 am  
 Operator : M.Pedro  
 Sample : ar1221/1254 ml  
 Misc : initial cal  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:20:02 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:19:54 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.756	955.8E6	727.2E6	38.054	38.395
Spiked Amount	100.000	Range	30 - 150	Recovery	= 38.05%	38.40%
2) S SURR2, Dec...	11.374	12.686	766.0E6	614.4E6	37.528	37.299
Spiked Amount	100.000	Range	30 - 150	Recovery	= 37.53%	37.30%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.112	4.419	49061894	37522328	267.004	256.461
9) L2c PCB 1221{2}	4.982	5.254	71271822	54658985	277.515	255.298
10) L2c PCB 1221{3}	5.152	5.426	39197273	35421735	255.995	256.395
11) L2c PCB 1221{4}	5.215	5.501	181.3E6	109.3E6	284.506	251.848
12) L2c PCB 1221{5}	5.628	5.572	24063805	19845749	274.848m	271.824
Sum PCB 1221			364.9E6	256.7E6	1359.868	1291.825
Average PCB 1221					271.974	258.365
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.438	117.2E6	192.7E6	281.967	254.656
29) L6c PCB 1254{2}	7.554	7.851	179.3E6	151.0E6	271.396	264.175
30) L6c PCB 1254{3}	7.665	8.064	386.1E6	215.4E6	270.129	256.042
31) L6c PCB 1254{4}	7.806	8.680	209.1E6	228.3E6	282.978	264.331
32) L6c PCB 1254{5}	8.726	9.243	101.1E6	112.5E6	287.486	254.355
Sum PCB 1254			992.8E6	899.9E6	1393.956	1293.559
Average PCB 1254					278.791	258.712
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

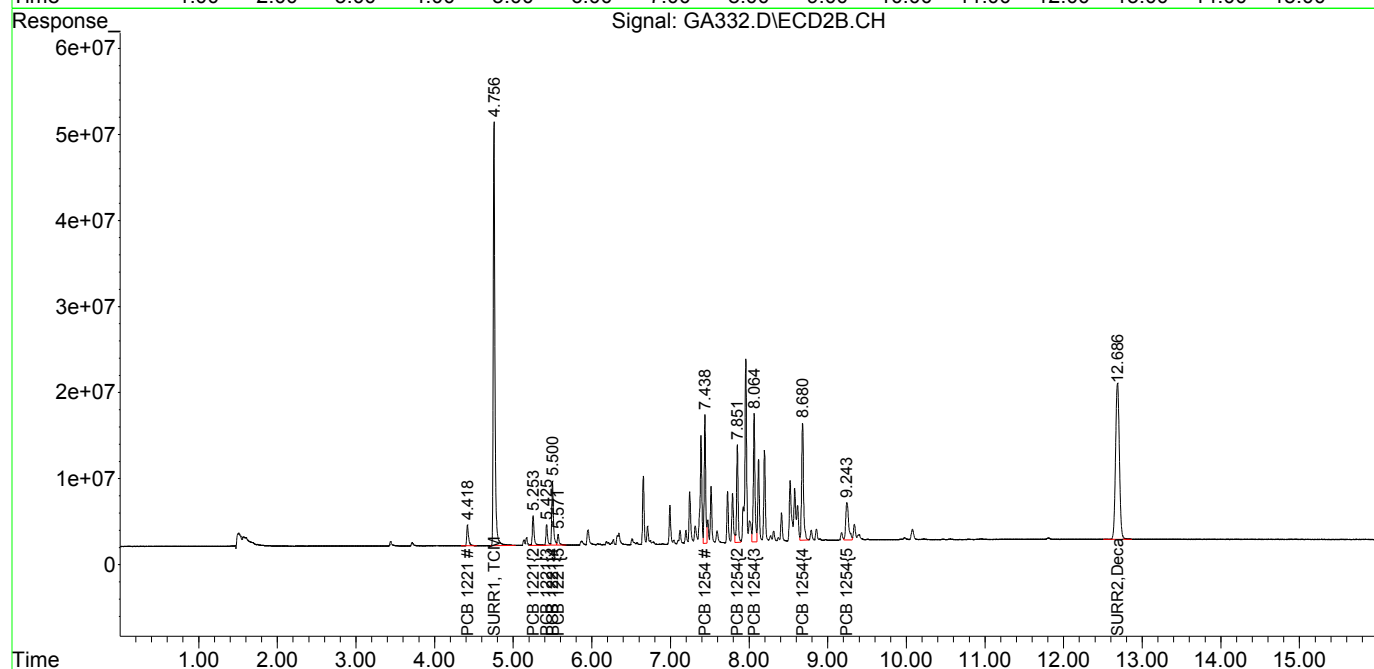
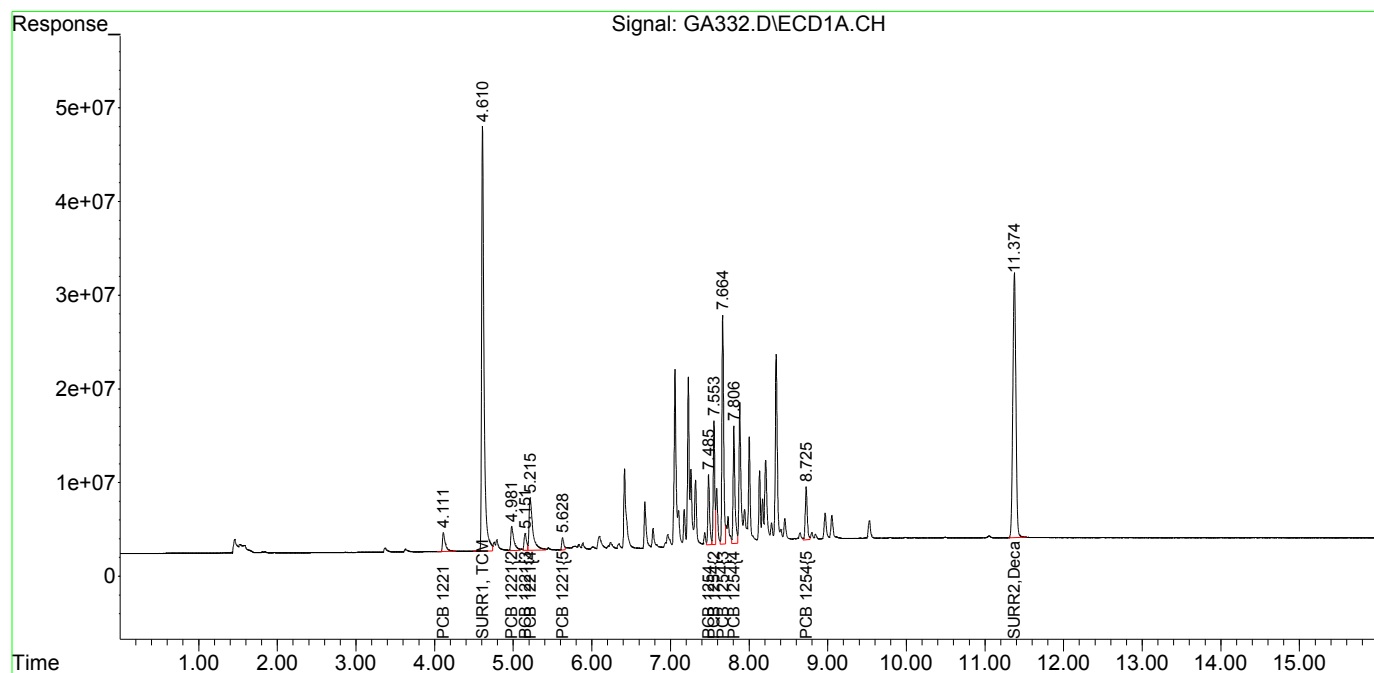
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA333.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:09 am  
Operator : M.Pedro  
Sample : ar1221/1254 m  
Misc : initial cal  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:21:14 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:21:05 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1488.9E6	1134.9E6	59.868	60.399
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.87%	60.40%
2) S SURR2, Dec...	11.372	12.689	1207.2E6	964.4E6	59.613	59.014
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.61%	59.01%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.110	4.418	99026904	71857496	538.923	491.138
9) L2c PCB 1221{2}	4.982	5.254	143.3E6	108.7E6	557.902	507.488
10) L2c PCB 1221{3}	5.151	5.425	80745192	70035972	527.343	506.946
11) L2c PCB 1221{4}	5.214	5.500	364.4E6	217.3E6	571.807	500.780
12) L2c PCB 1221{5}	5.629	5.571	51081796	41744635	583.438	571.769
Sum PCB 1221			738.6E6	509.5E6	2779.413	2578.120
Average PCB 1221					555.883	515.624
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.439	251.1E6	405.8E6	604.101	536.237
29) L6c PCB 1254{2}	7.552	7.851	388.1E6	325.7E6	587.227	569.669
30) L6c PCB 1254{3}	7.663	8.063	830.4E6	462.6E6	581.035	549.953
31) L6c PCB 1254{4}	7.806	8.681	442.6E6	501.2E6	599.062	580.327
32) L6c PCB 1254{5}	8.725	9.245	221.7E6	245.6E6	630.289	555.341
Sum PCB 1254			2134.0E6	1940.8E6	3001.714	2791.527
Average PCB 1254					600.343	558.305
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

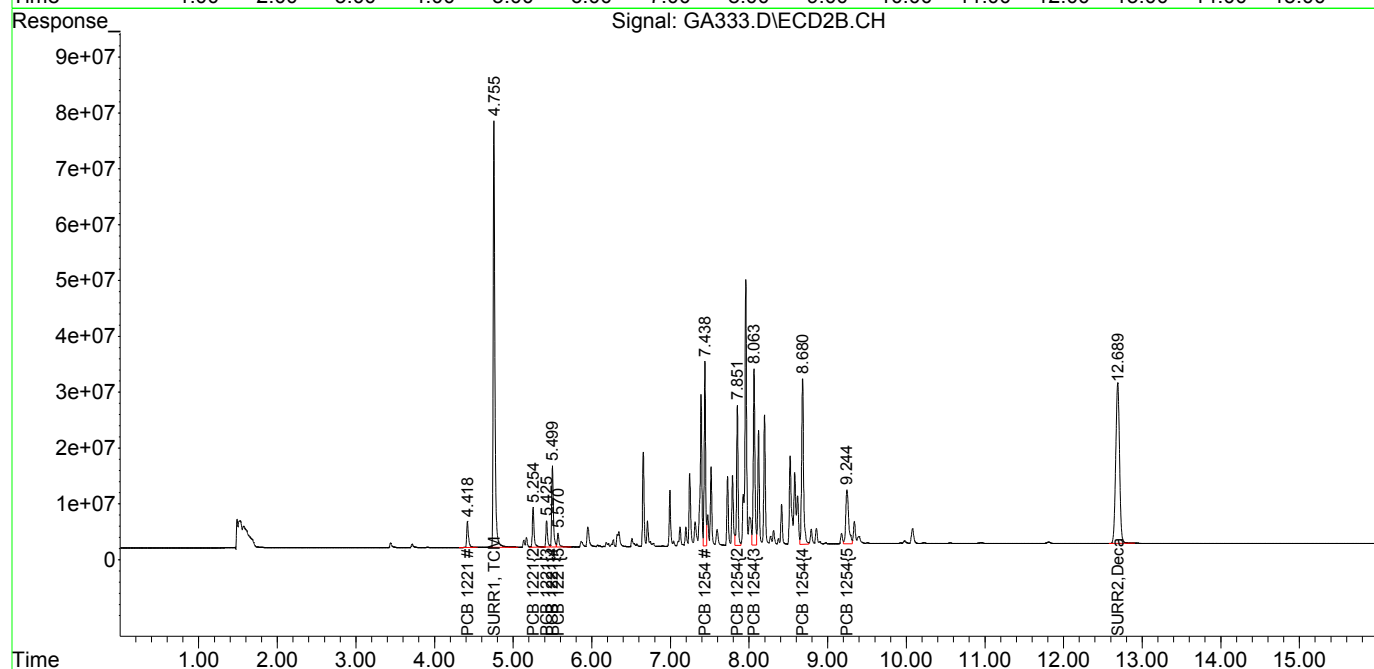
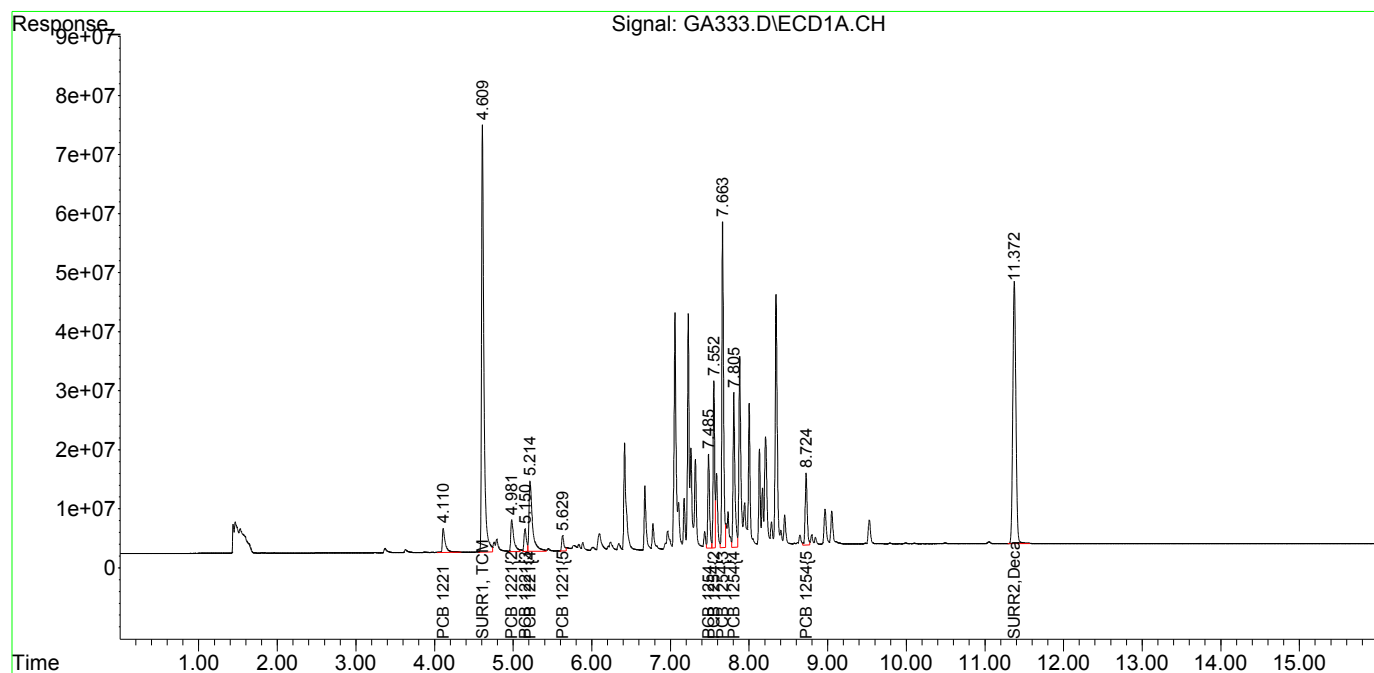
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA333.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:09 am  
Operator : M.Pedro  
Sample : ar1221/1254 m  
Misc : initial cal  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:21:14 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:21:05 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA334.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 11:29 am  
 Operator : M.Pedro  
 Sample : ar1221/1254 mh  
 Misc : initial cal  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:22:02 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:21:54 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1994.3E6	1526.5E6	80.705	81.456
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.70%	81.46%
2) S SURR2, Dec...	11.371	12.685	1607.0E6	1292.3E6	79.032	78.751
Spiked Amount	100.000	Range	30 - 150	Recovery	= 79.03%	78.75%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.111	4.419	146.7E6	105.7E6	760.975	717.057
9) L2c PCB 1221{2}	4.982	5.253	219.1E6	163.4E6	801.986	745.686
10) L2c PCB 1221{3}	5.150	5.426	124.2E6	105.4E6	788.271	748.336
11) L2c PCB 1221{4}	5.214	5.500	550.1E6	327.3E6	802.511	744.708
12) L2c PCB 1221{5}	5.629	5.571	74322056	61777709	787.322	788.495
Sum PCB 1221			1114.5E6	763.6E6	3941.065	3744.282
Average PCB 1221					788.213	748.856
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.438	369.4E6	602.6E6	793.706	748.706
29) L6c PCB 1254{2}	7.553	7.850	577.7E6	469.5E6	791.216	760.727
30) L6c PCB 1254{3}	7.663	8.063	1234.1E6	689.8E6	778.208	764.258
31) L6c PCB 1254{4}	7.806	8.679	650.7E6	746.5E6	785.834	788.724
32) L6c PCB 1254{5}	8.725	9.242	322.5E6	366.9E6	802.847	803.681
Sum PCB 1254			3154.3E6	2875.3E6	3951.812	3866.096
Average PCB 1254					790.362	773.219
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

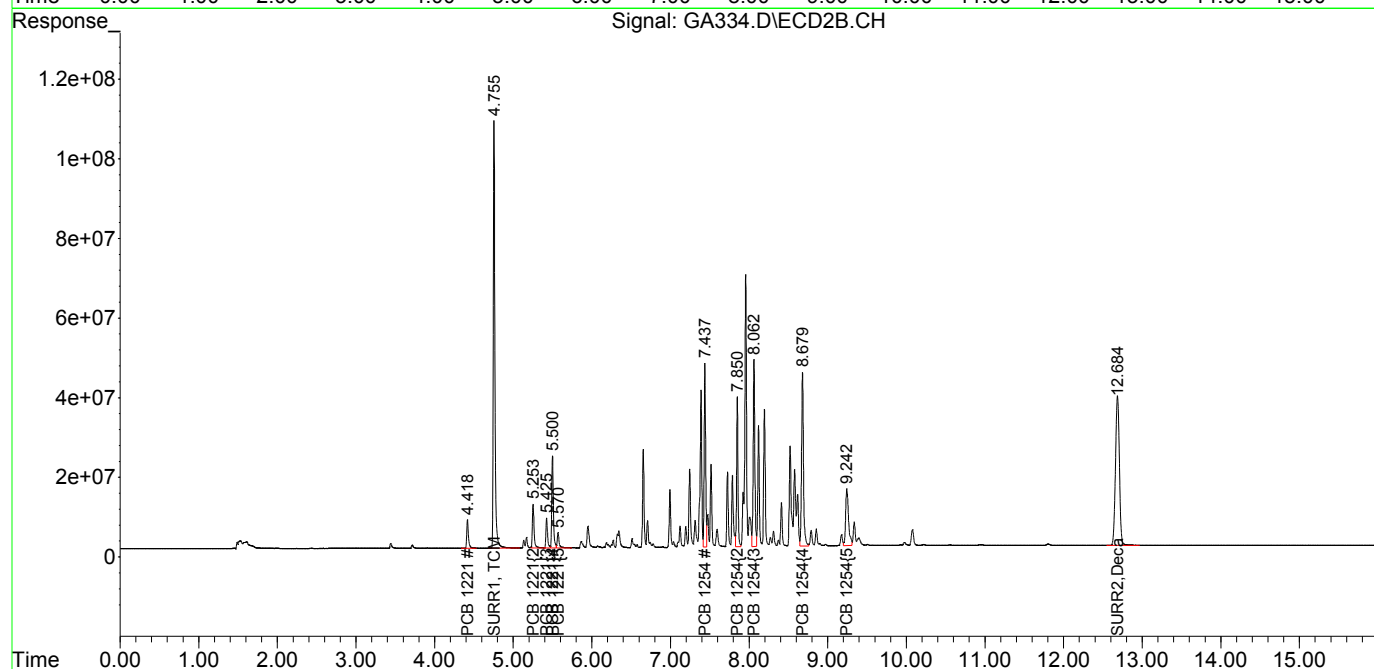
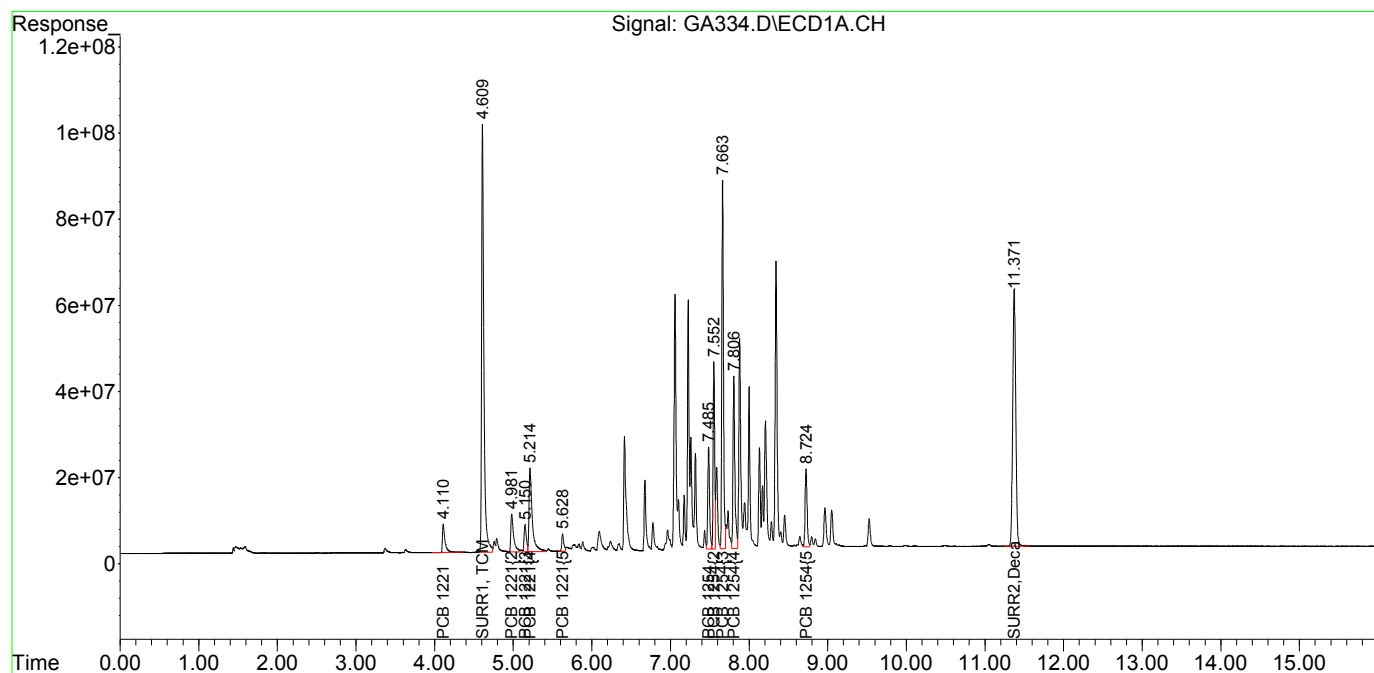
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA334.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:29 am  
Operator : M.Pedro  
Sample : ar1221/1254 mh  
Misc : initial cal  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:22:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:21:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA335.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 h  
Misc : initial cal  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:22:48 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:22:38 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2458.0E6	1885.7E6	98.047	98.692
Spiked Amount	100.000	Range	30 - 150	Recovery =	98.05%	98.69%
2) S SURR2, Dec...	11.373	12.685	1996.5E6	1596.6E6	96.347	95.409
Spiked Amount	100.000	Range	30 - 150	Recovery =	96.35%	95.41%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.110	4.417	187.6E6	133.7E6	972.967	907.063
9) L2c PCB 1221{2}	4.981	5.252	282.7E6	211.6E6	1034.729	965.381
10) L2c PCB 1221{3}	5.150	5.424	161.1E6	134.3E6	1022.956	953.538
11) L2c PCB 1221{4}	5.213	5.498	703.9E6	416.9E6	1026.849	948.610
12) L2c PCB 1221{5}	5.629	5.569	97306409	77924943	1030.804	994.589
Sum PCB 1221			1432.7E6	974.4E6	5088.305	4769.180
Average PCB 1221					1017.661	953.836
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.437	477.1E6	773.2E6	1025.110	960.594
29) L6c PCB 1254{2}	7.553	7.850	752.2E6	608.6E6	1030.266	986.054
30) L6c PCB 1254{3}	7.664	8.062	1596.5E6	884.9E6	1006.762	980.519
31) L6c PCB 1254{4}	7.806	8.679	839.5E6	963.1E6	1013.872	1017.637
32) L6c PCB 1254{5}	8.725	9.243	418.3E6	475.4E6	1041.235	1041.201
Sum PCB 1254			4083.6E6	3705.2E6	5117.244	4986.004
Average PCB 1254					1023.449	997.201
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

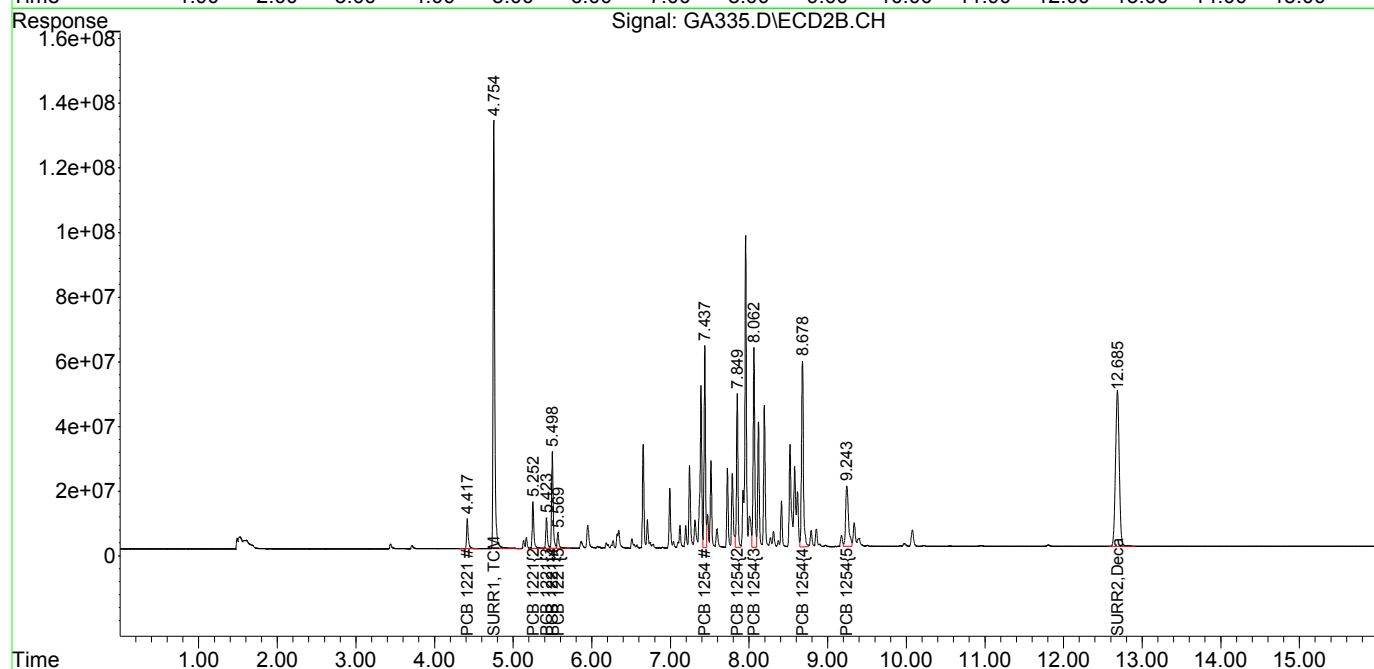
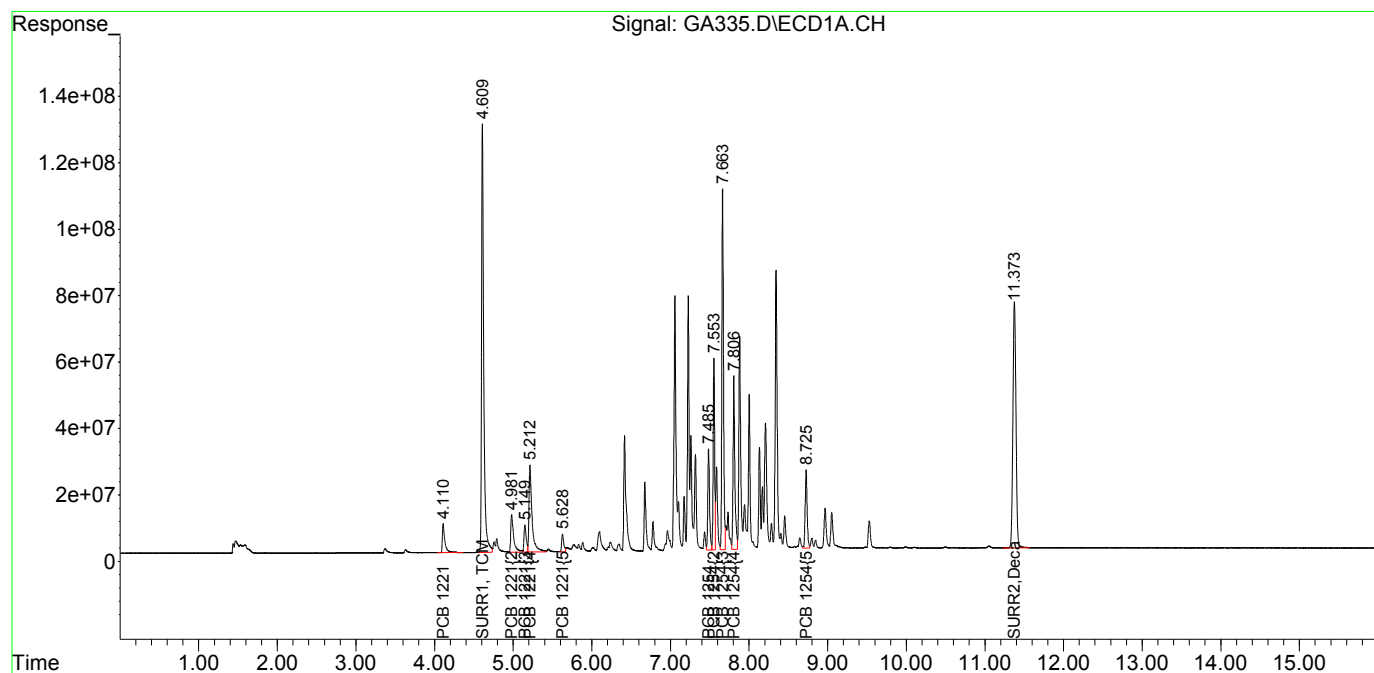




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA335.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 h  
Misc : initial cal  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:22:48 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:22:38 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA336.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 12:09 pm  
 Operator : M.Pedro  
 Sample : ar1232 1  
 Misc : initial cal  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:23:50 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:23:31 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

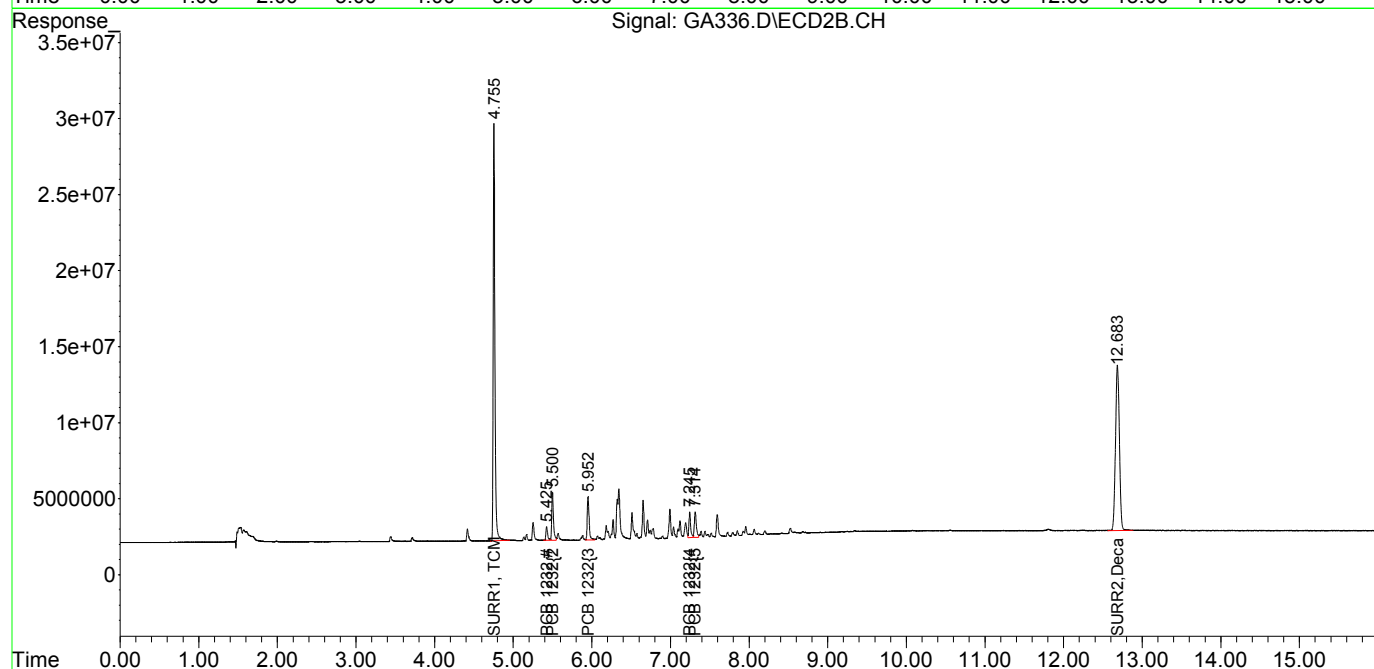
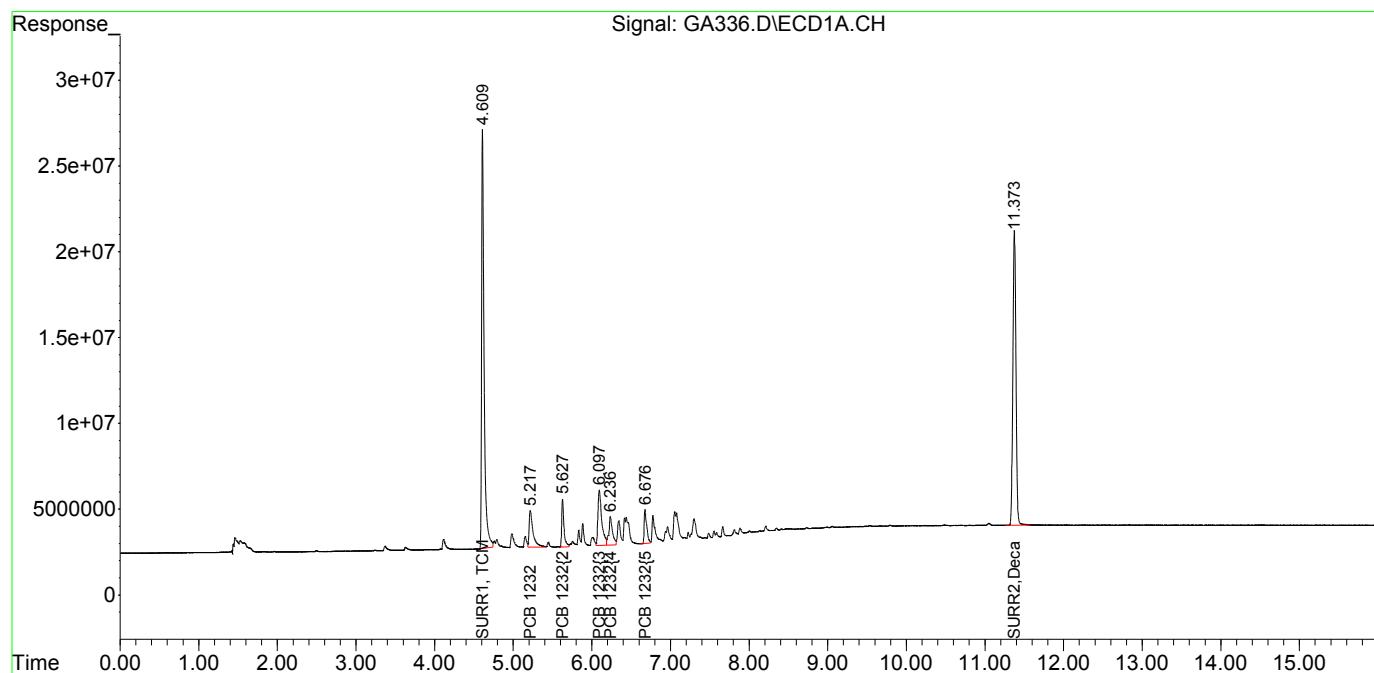
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	534.3E6	406.6E6	21.369	21.222
Spiked Amount	100.000	Range	30 - 150	Recovery	=	21.37%# 21.22%#
2) S SURR2, Dec...	11.373	12.684	467.4E6	374.2E6	22.507	22.308
Spiked Amount	100.000	Range	30 - 150	Recovery	=	22.51%# 22.31%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.217	5.426	72660558	13514960	153.029	133.865
14) L3c PCB 1232{2}	5.628	5.500	56158794	47563950	146.131	132.536
15) L3c PCB 1232{3}	6.096	5.952	109.2E6	47449414	142.196	135.008
16) L3c PCB 1232{4}	6.236	7.245	53890995	25467296	167.095	144.267
17) L3c PCB 1232{5}	6.676	7.315	43426167	30779512	151.670	141.579
Sum PCB 1232			335.3E6	164.8E6	760.122	687.254
Average PCB 1232					152.024	137.451
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA336.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:09 pm  
Operator : M.Pedro  
Sample : ar1232 1  
Misc : initial cal  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:23:50 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:23:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA337.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:29 pm  
Operator : M.Pedro  
Sample : ar1232 ml  
Misc : initial cal  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:25:22 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:24:28 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l

System Monitoring Compounds

1) S SURR1, TCMX 4.610 4.756 1018.7E6 769.0E6 40.449 39.896  
Spiked Amount 100.000 Range 30 - 150 Recovery = 40.45% 39.90%  
2) S SURR2,Dec... 11.371 12.682 851.3E6 680.1E6 40.387 39.974  
Spiked Amount 100.000 Range 30 - 150 Recovery = 40.39% 39.97%

Target Compounds

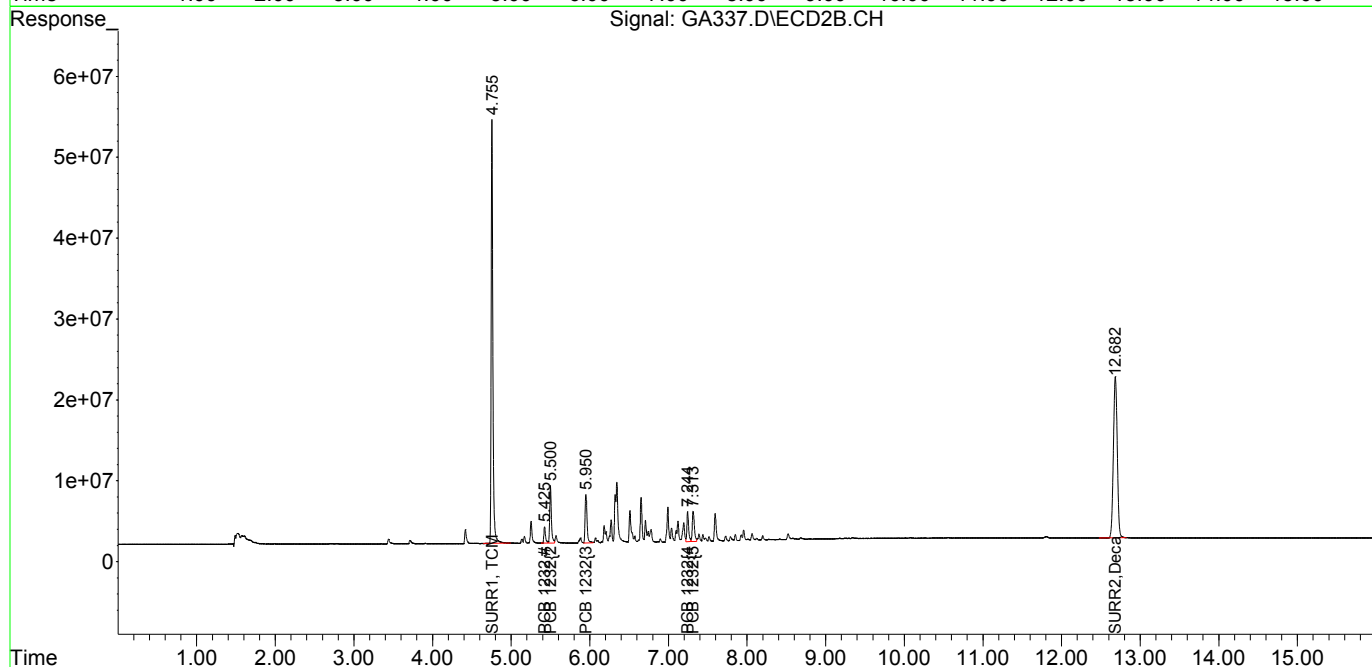
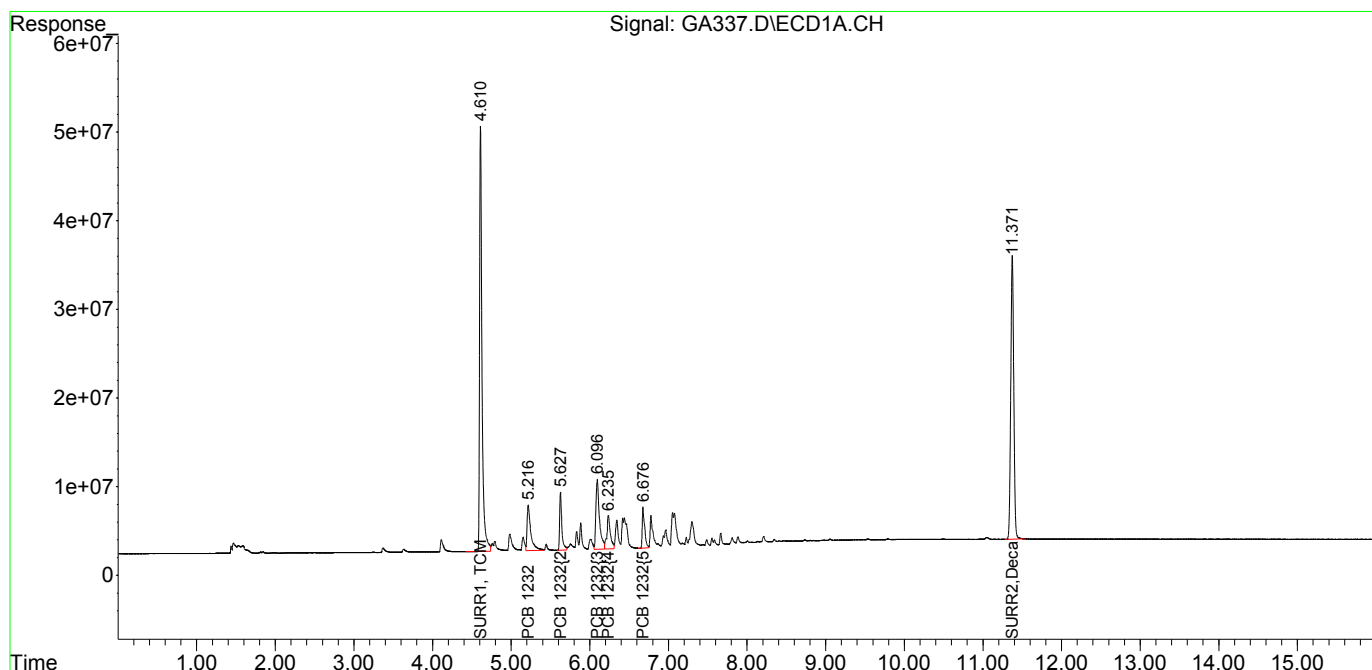
Sum PCB 1016 0 0 N.D. N.D.  
Average PCB 1016 0.000 0.000  
Sum PCB 1221 0 0 N.D. N.D.  
Average PCB 1221 0.000 0.000  
13) L3c PCB 1232 5.217 5.425 169.2E6 30260531 305.911 273.967  
14) L3c PCB 1232{2} 5.628 5.500 125.0E6 104.0E6 284.188 267.532  
15) L3c PCB 1232{3} 6.096 5.951 246.5E6 104.3E6 282.703 270.971  
16) L3c PCB 1232{4} 6.236 7.245 117.6E6 56560047 299.852 281.897  
17) L3c PCB 1232{5} 6.676 7.314 98261858 69056957 292.880 281.425  
Sum PCB 1232 756.6E6 364.2E6 1465.534 1375.791  
Average PCB 1232 293.107 275.158  
Sum PCB 1242 0 0 N.D. N.D.  
Average PCB 1242 0.000 0.000  
Sum PCB 1248 0 0 N.D. N.D.  
Average PCB 1248 0.000 0.000  
Sum PCB 1254 0 0 N.D. N.D.  
Average PCB 1254 0.000 0.000  
Sum PCB 1260 0 0 N.D. N.D.  
Average PCB 1260 0.000 0.000  
Sum PCB 1268 0 0 N.D. N.D.  
Average PCB 1268 0.000 0.000  
Sum PCB 1262 0 0 N.D. N.D.  
Average PCB 1262 0.000 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA337.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:29 pm  
Operator : M.Pedro  
Sample : ar1232 ml  
Misc : initial cal  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:25:22 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:24:28 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA338.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 12:49 pm  
 Operator : M.Pedro  
 Sample : ar1232 m  
 Misc : initial cal  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:26:10 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:25:59 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

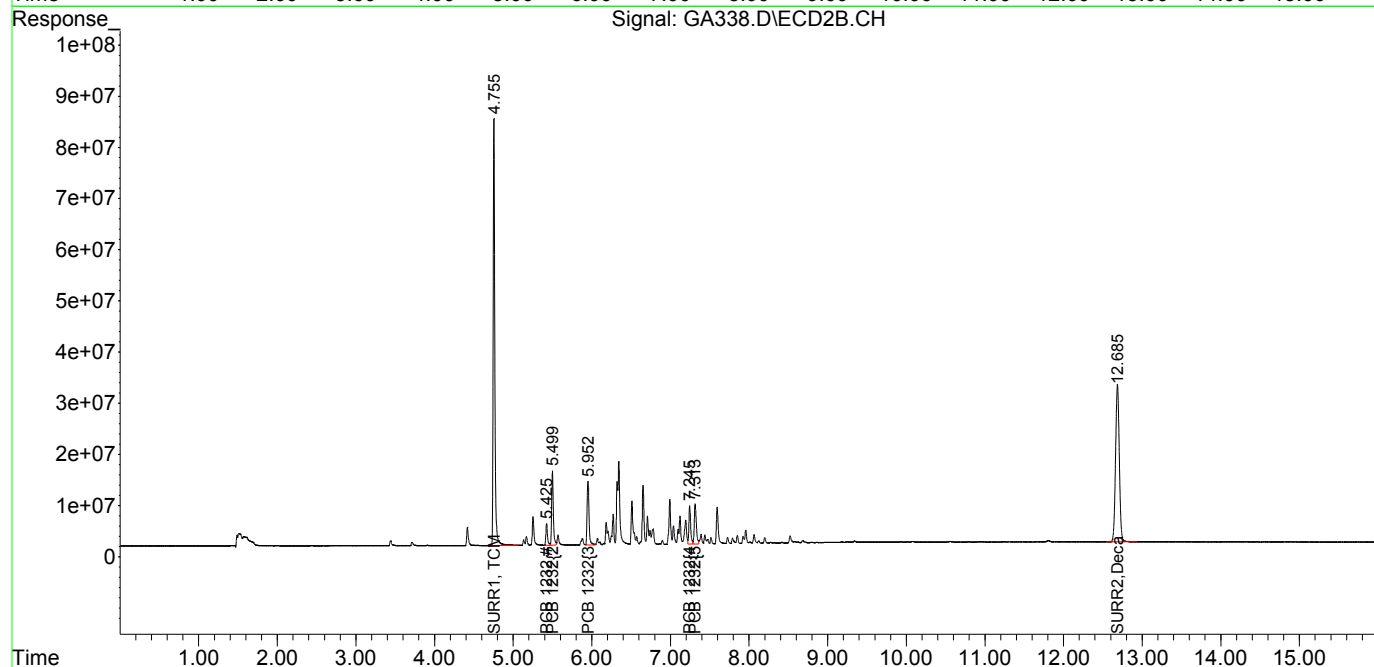
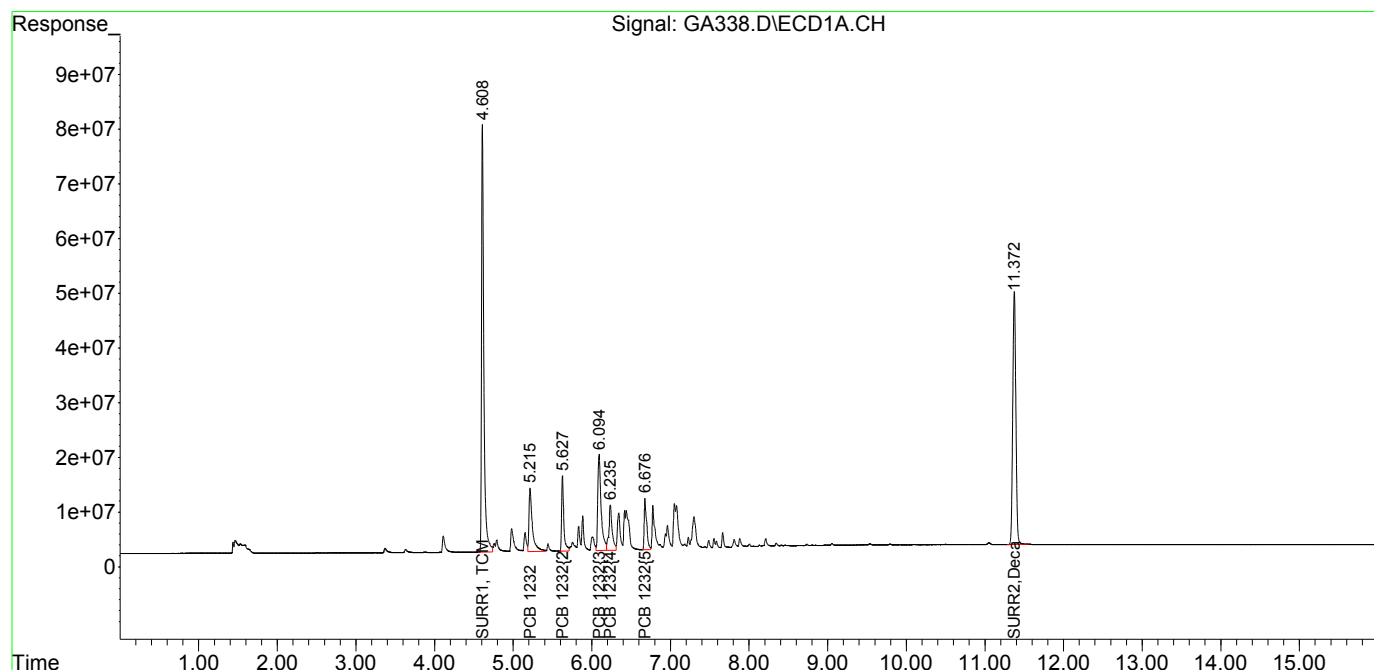
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1573.8E6	1193.4E6	61.851	61.361
Spiked Amount	100.000	Range	30 - 150	Recovery =	61.85%	61.36%
2) S SURR2, Dec...	11.373	12.685	1268.1E6	1015.1E6	59.165	58.720
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.16%	58.72%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.215	5.426	348.1E6	61724874	629.302	558.833
14) L3c PCB 1232{2}	5.627	5.500	260.4E6	213.2E6	591.707	548.226
15) L3c PCB 1232{3}	6.094	5.952	519.7E6	213.2E6	596.064	553.954
16) L3c PCB 1232{4}	6.236	7.245	241.6E6	115.0E6	615.923	573.114
17) L3c PCB 1232{5}	6.676	7.314	205.4E6	141.7E6	612.273	577.308
Sum PCB 1232			1575.1E6	744.8E6	3045.269	2811.436
Average PCB 1232					609.054	562.287
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA338.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:49 pm  
Operator : M.Pedro  
Sample : ar1232 m  
Misc : initial cal  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:26:10 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:25:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA339.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 1:08 pm  
 Operator : M.Pedro  
 Sample : ar1232 mh  
 Misc : initial cal  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:26:51 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:26:43 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	2004.5E6	1520.7E6	78.054	77.542
Spiked Amount	100.000	Range	30 - 150	Recovery	= 78.05%	77.54%
2) S SURR2, Dec...	11.374	12.684	1629.2E6	1302.9E6	75.414	74.762
Spiked Amount	100.000	Range	30 - 150	Recovery	= 75.41%	74.76%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.214	5.425	485.2E6	85729651	765.061	717.998
14) L3c PCB 1232{2}	5.627	5.499	366.7E6	296.9E6	748.384	711.813
15) L3c PCB 1232{3}	6.094	5.952	739.8E6	299.0E6	761.123	719.564
16) L3c PCB 1232{4}	6.233	7.244	338.1E6	161.8E6	752.049	732.379
17) L3c PCB 1232{5}	6.675	7.313	290.2E6	200.5E6	762.993	741.300
Sum PCB 1232			2220.0E6	1043.8E6	3789.611	3623.055
Average PCB 1232					757.922	724.611
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

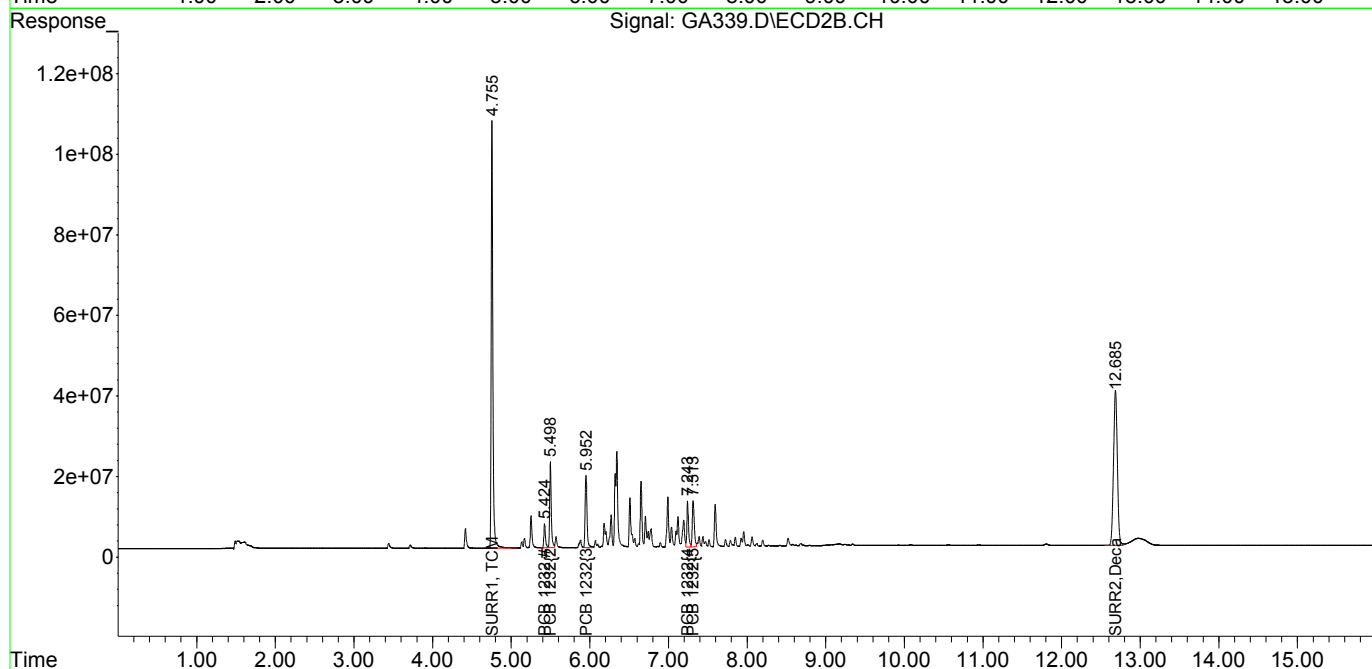
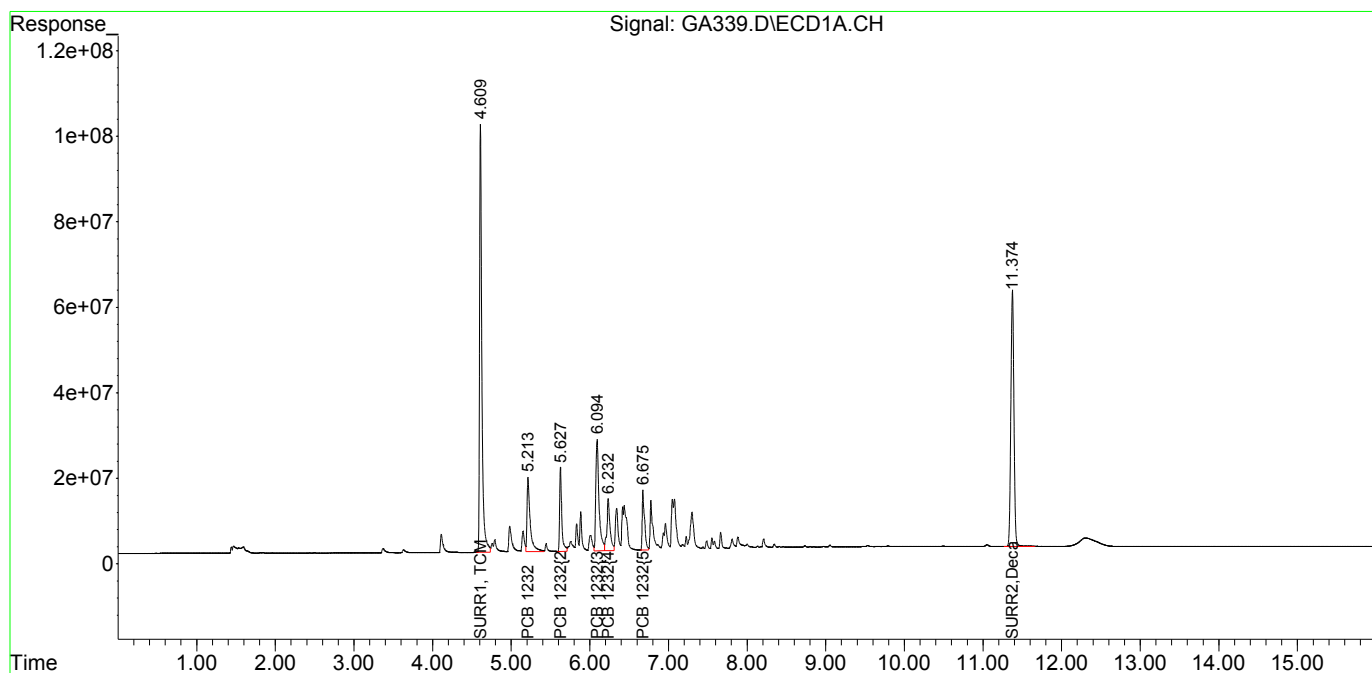
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA339.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:08 pm  
Operator : M.Pedro  
Sample : ar1232 mh  
Misc : initial cal  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:26:51 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:26:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA340.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:28 pm  
Operator : M.Pedro  
Sample : ar1232 h  
Misc : initial cal  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:27:38 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:27:30 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

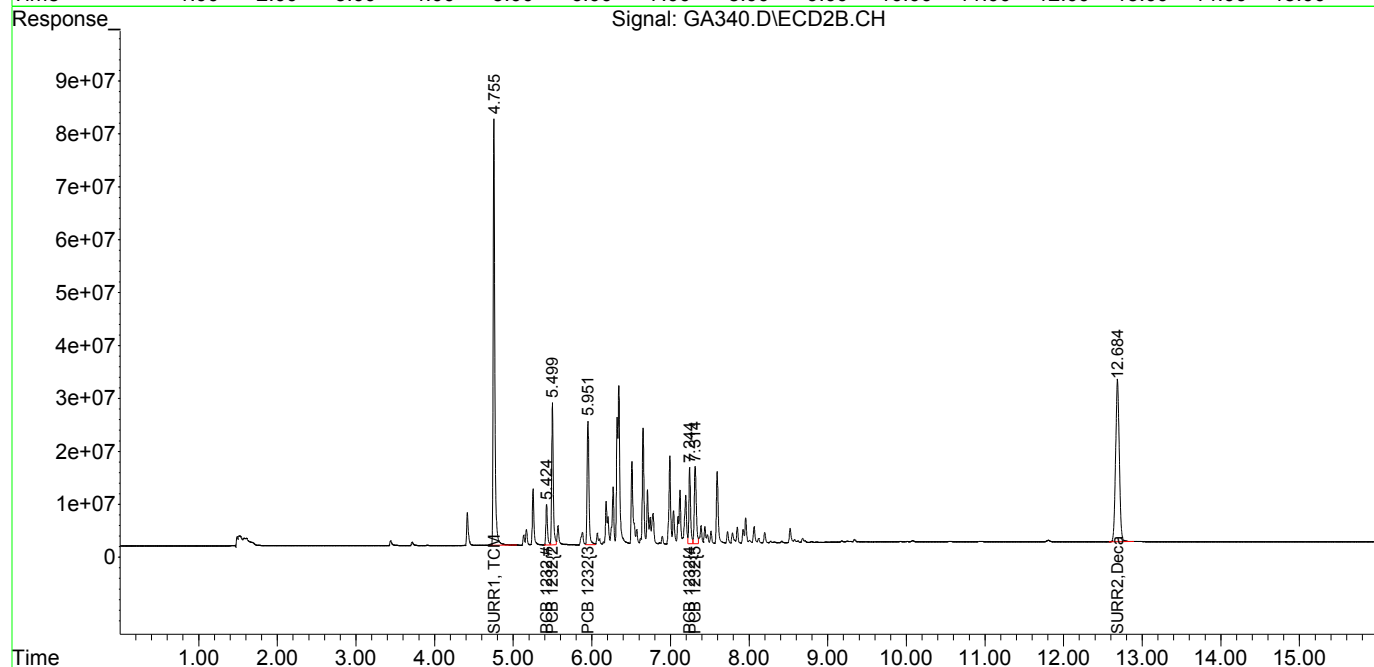
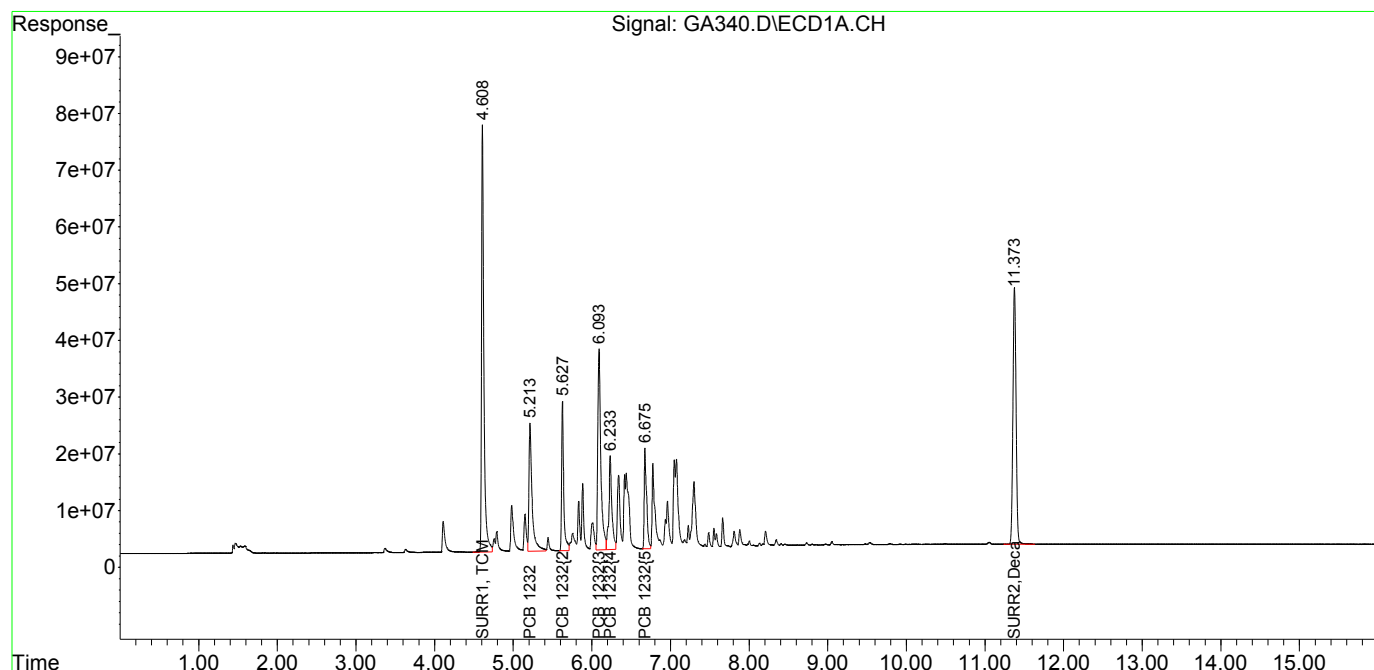
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	1527.6E6	1168.2E6	59.435	59.604
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.44%	59.60%
2) S SURR2, Dec...	11.374	12.684	1249.0E6	993.8E6	57.692	56.952
Spiked Amount	100.000	Range	30 - 150	Recovery =	57.69%	56.95%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.214	5.425	623.9E6	108.6E6	983.736	909.269
14) L3c PCB 1232{2}	5.628	5.499	473.0E6	381.6E6	965.333	915.080
15) L3c PCB 1232{3}	6.093	5.951	961.5E6	383.4E6	989.242	922.879
16) L3c PCB 1232{4}	6.233	7.244	433.9E6	209.0E6	965.089	945.945
17) L3c PCB 1232{5}	6.676	7.314	375.7E6	259.4E6	987.680	959.062
Sum PCB 1232			2868.0E6	1342.0E6	4891.079	4652.235
Average PCB 1232					978.216	930.447
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA340.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:28 pm  
Operator : M.Pedro  
Sample : ar1232 h  
Misc : initial cal  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:27:38 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:27:30 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

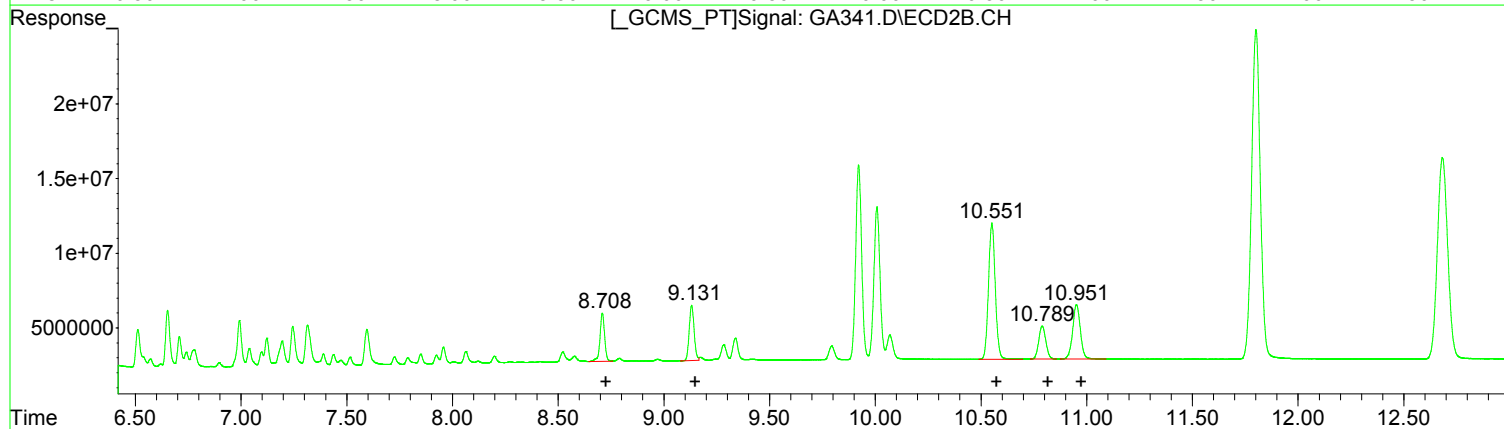
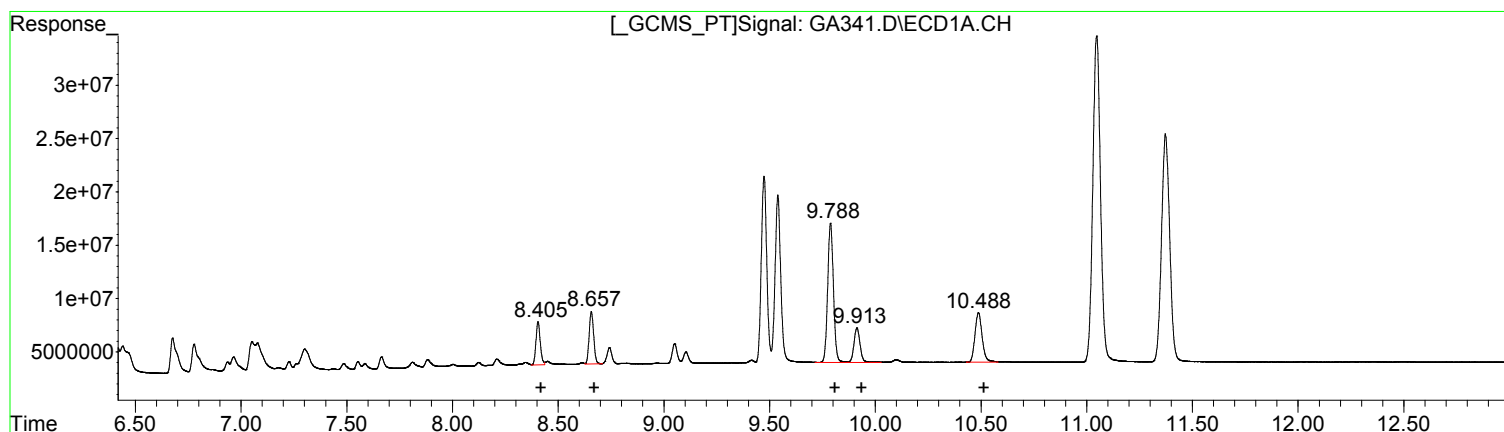
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA341.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:47 pm  
Operator : M.Pedro  
Sample : ar1242/68 1  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:28:42 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:28:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(38) PCB 1268 (L8C)		
R.T.	Response	Conc
8.40	57864319	135.63
8.66	73177565	139.59
9.79	246261131	137.19
9.91	63868854	138.41
10.49	110924779	137.00

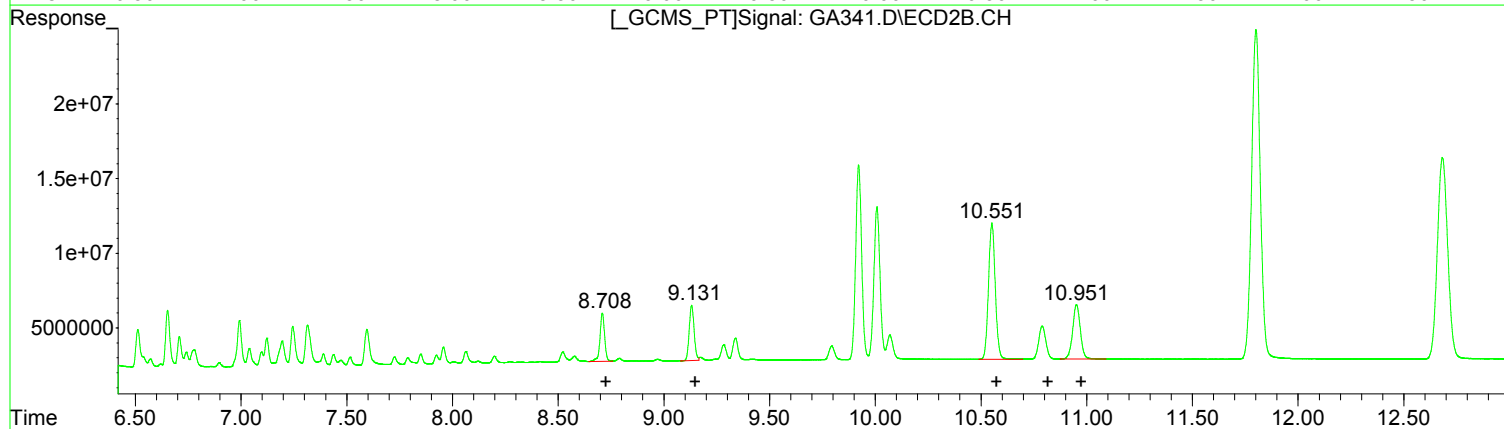
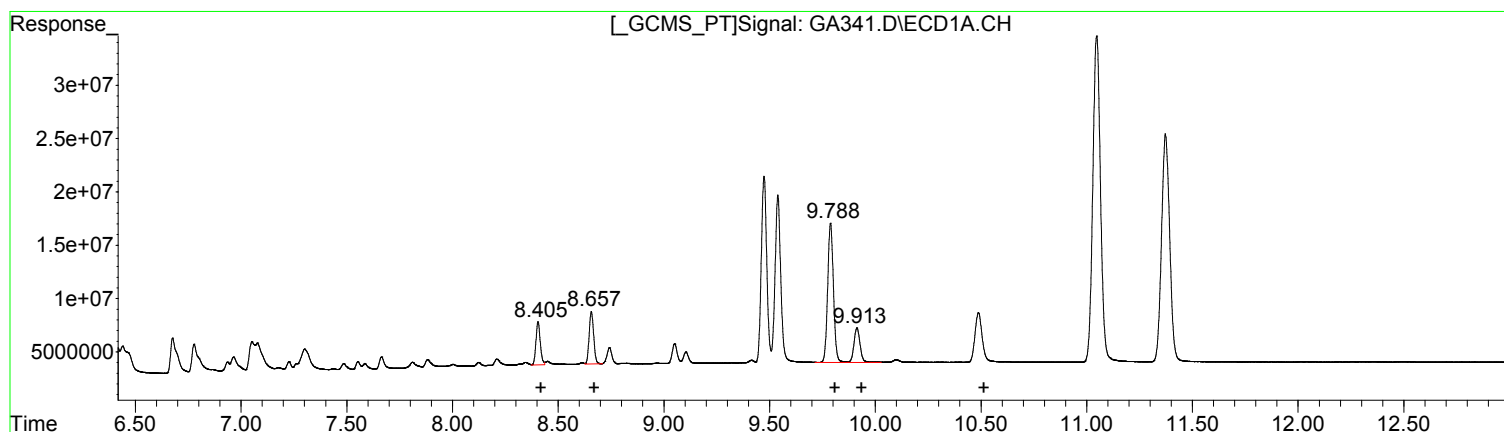
(38) PCB 1268 #2 (L8C)		
R.T.	Response	Conc
8.71	49861893	138.21
9.13	60093917	133.75
10.55	202814063	126.06
10.79	51448587	124.00
10.95	93076576	126.14

Manual Integration:  
After  
Peak not found.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA341.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:47 pm  
Operator : M.Pedro  
Sample : ar1242/68 l  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:28:42 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:28:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(38) PCB 1268 (L8C)

R.T.	Response	Conc
8.40	57864319	135.63
8.66	73177565	139.59
9.79	246261131	137.19
9.91	63868854	138.41
0.00	0	0.00

Manual Integration:  
Before  
01/11/18

(38) PCB 1268 #2 (L8C)

R.T.	Response	Conc
8.71	49861893	138.21
9.13	60093917	133.75
10.55	202814063	126.06
0.00	0	0.00
10.95	93076576	126.14

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA341.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 1:47 pm  
 Operator : M.Pedro  
 Sample : ar1242/68 1  
 Misc : initial cal  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:28:42 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:28:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.756	495.4E6	374.2E6	20.511	20.332
Spiked Amount	100.000	Range	30 - 150	Recovery	=	20.51%# 20.33%#
2) S SURR2, Dec...	11.373	12.683	575.3E6	461.4E6	28.196	28.059
Spiked Amount	100.000	Range	30 - 150	Recovery	=	28.20%# 28.06%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.219	5.501	37996886	28518246	112.131	105.100
19) L4c PCB 1242{2}	5.884	5.952	33659431	63308306	123.098	106.652
20) L4c PCB 1242{3}	6.096	6.993	156.1E6	46426320	107.768	101.930
21) L4c PCB 1242{4}	6.676	7.315	71427825	50112638	116.309	112.045
22) L4c PCB 1242{5}	6.778	7.596	65004474	40950143	110.817	111.731
Sum PCB 1242			364.2E6	229.3E6	570.124	537.458
Average PCB 1242					114.025	107.492
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.405	8.709	57864319	49861893	135.631	138.207
39) L8C PCB 1268{2}	8.657	9.131	73177565	60093917	139.594	133.754
40) L8C PCB 1268{3}	9.788	10.552	246.3E6	202.8E6	137.188	126.062
41) L8C PCB 1268{4}	9.914	10.789	63868854	51448587	138.405	124.002m
42) L8C PCB 1268{5}	10.488	10.952	110.9E6	93076576	137.005m	126.140
Sum PCB 1268			552.1E6	457.3E6	687.823	648.165
Average PCB 1268					137.565	129.633
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

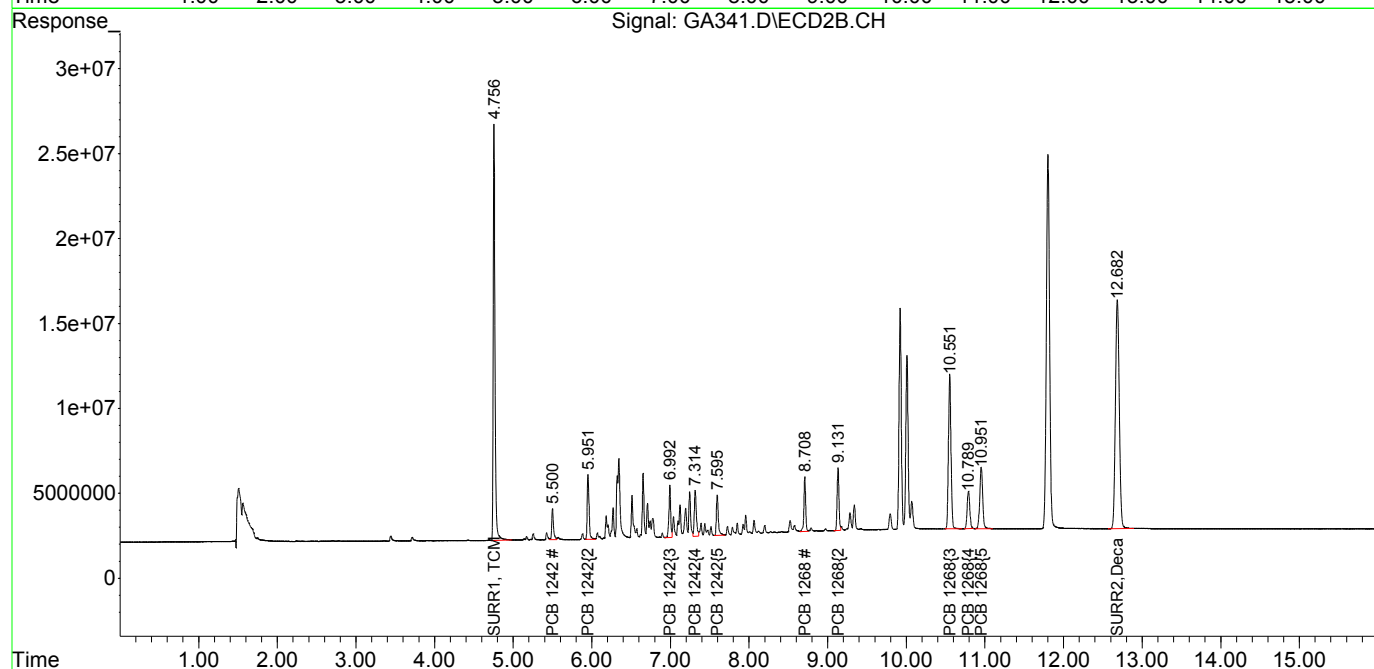
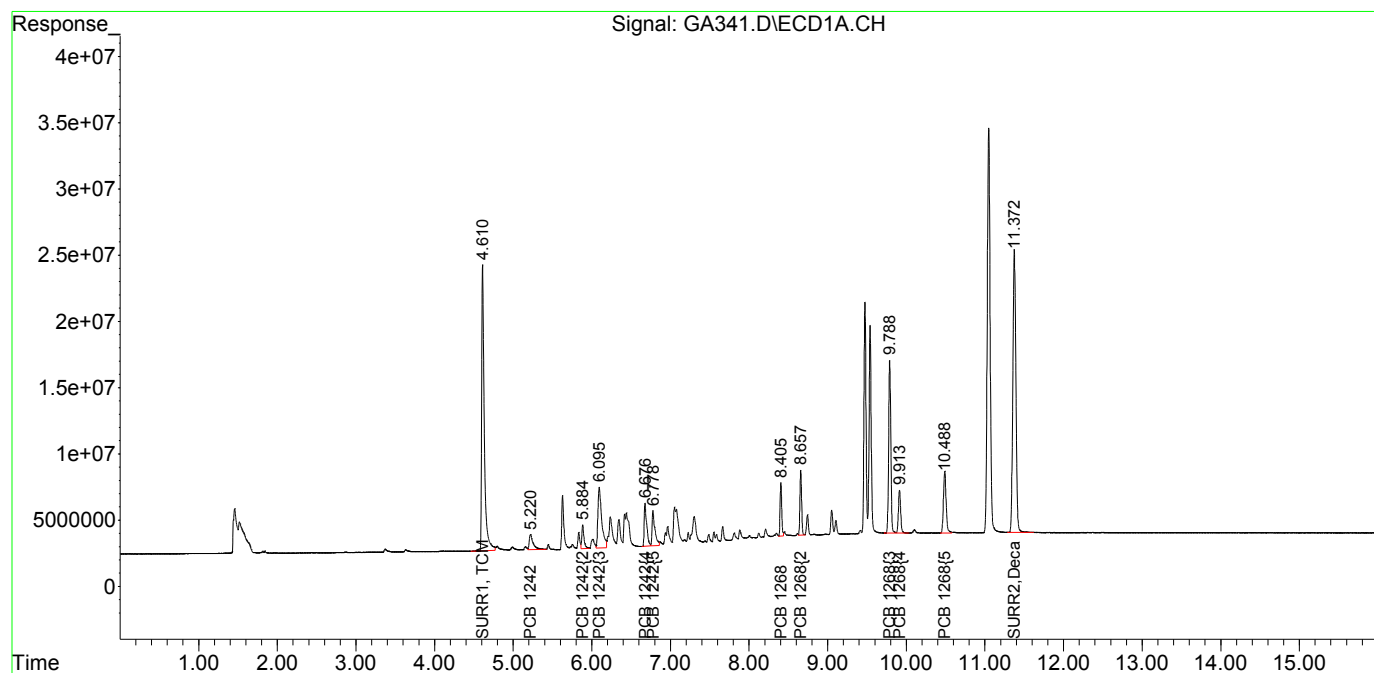
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA341.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:47 pm  
Operator : M.Pedro  
Sample : ar1242/68 1  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:28:42 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:28:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA342.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 2:07 pm  
 Operator : M.Pedro  
 Sample : ar1242/68 ml  
 Misc : initial cal  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:30:22 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:30:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	1033.9E6	777.1E6	43.389	42.855
Spiked Amount	100.000	Range	30 - 150	Recovery =	43.39%	42.85%
2) S SURR2, Dec...	11.376	12.684	1247.5E6	996.9E6	58.563	58.058
Spiked Amount	100.000	Range	30 - 150	Recovery =	58.56%	58.06%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.217	5.500	101.6E6	69462860	294.542	261.418
19) L4c PCB 1242{2}	5.885	5.952	86300656	157.0E6	300.042	267.881
20) L4c PCB 1242{3}	6.095	6.992	404.4E6	117.4E6	278.340	267.859
21) L4c PCB 1242{4}	6.677	7.314	181.7E6	126.5E6	287.620	278.284
22) L4c PCB 1242{5}	6.777	7.595	167.7E6	104.9E6	277.519	281.878
Sum PCB 1242			941.6E6	575.4E6	1438.062	1357.321
Average PCB 1242					287.612	271.464
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.406	8.709	153.2E6	130.4E6	304.746	303.431
39) L8C PCB 1268{2}	8.658	9.131	192.3E6	153.5E6	306.285	292.238
40) L8C PCB 1268{3}	9.788	10.553	655.2E6	536.3E6	307.795	294.901
41) L8C PCB 1268{4}	9.914	10.790	169.9E6	137.5E6	308.828	295.874
42) L8C PCB 1268{5}	10.490	10.952	296.2E6	247.7E6	308.682	296.831
Sum PCB 1268			1466.8E6	1205.3E6	1536.337	1483.275
Average PCB 1268					307.267	296.655
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

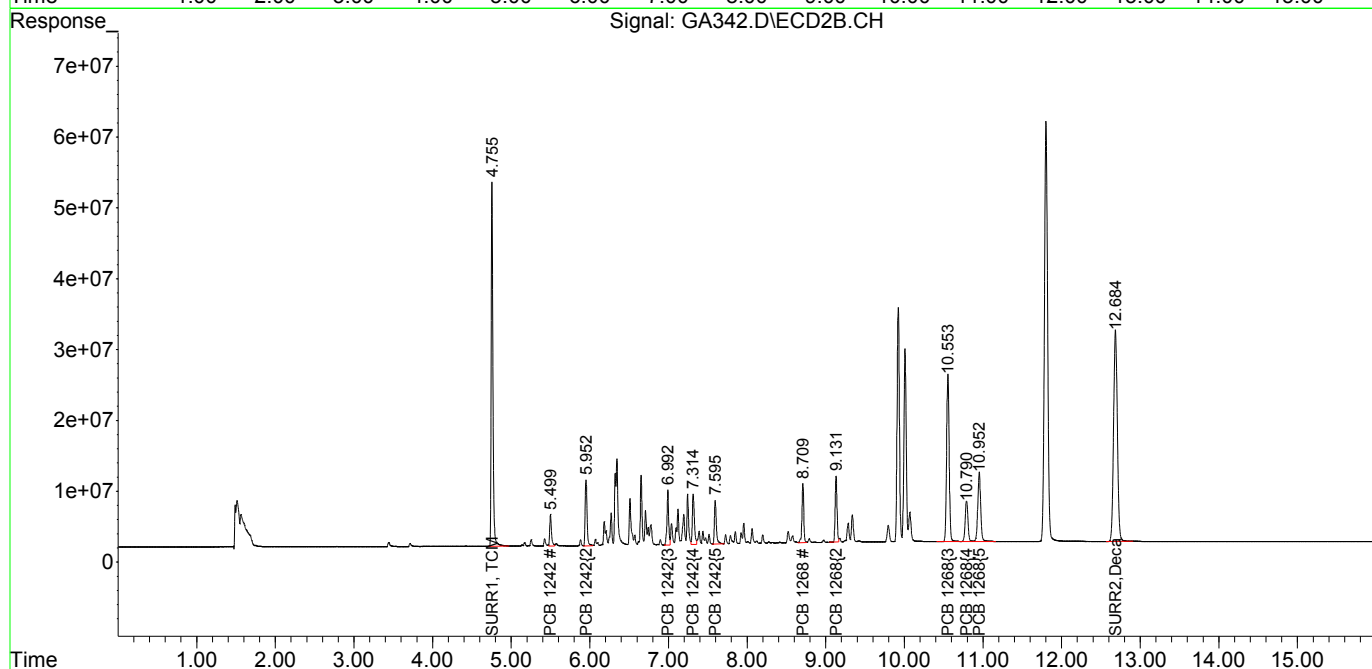
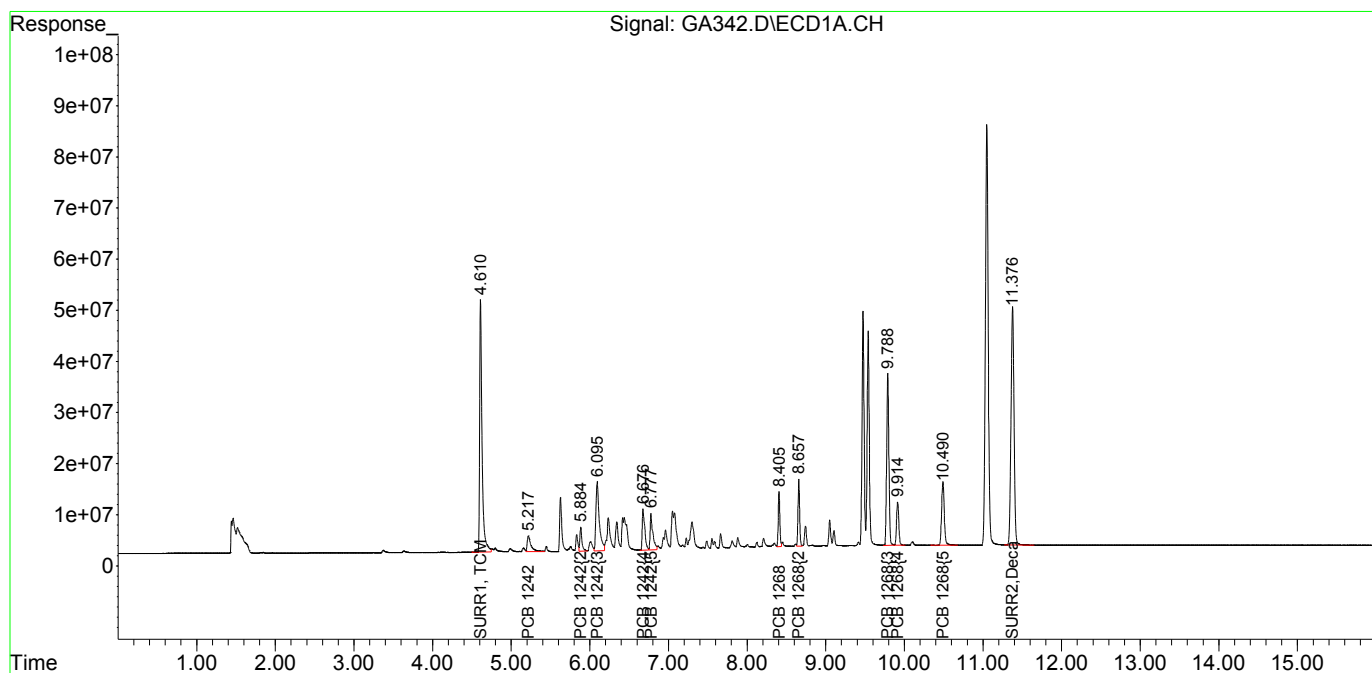
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA342.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:07 pm  
Operator : M.Pedro  
Sample : ar1242/68 ml  
Misc : initial cal  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:30:22 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:30:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA343.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:27 pm  
Operator : M.Pedro  
Sample : ar1242/68 m  
Misc : initial cal  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	1560.0E6	1167.0E6	65.297	64.235
Spiked Amount	100.000	Range	30 - 150	Recovery =	65.30%	64.23%
2) S SURR2, Dec...	11.371	12.682	2053.6E6	1634.3E6	89.472	88.377
Spiked Amount	100.000	Range	30 - 150	Recovery =	89.47%	88.38%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.216	5.499	206.2E6	137.0E6	597.958	515.571
19) L4c PCB 1242{2}	5.884	5.950	170.1E6	303.6E6	591.256	517.828
20) L4c PCB 1242{3}	6.094	6.991	810.2E6	231.2E6	557.612	527.421
21) L4c PCB 1242{4}	6.676	7.313	359.7E6	248.3E6	569.524	546.038
22) L4c PCB 1242{5}	6.777	7.594	337.9E6	210.2E6	559.245	564.620
Sum PCB 1242			1884.0E6	1130.2E6	2875.594	2671.478
Average PCB 1242					575.119	534.296
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.404	8.708	294.1E6	249.7E6	545.277	542.441
39) L8C PCB 1268{2}	8.656	9.130	367.2E6	294.1E6	543.927	530.293
40) L8C PCB 1268{3}	9.787	10.552	1286.8E6	1053.2E6	561.198	546.470
41) L8C PCB 1268{4}	9.912	10.788	337.1E6	267.6E6	568.249	542.629
42) L8C PCB 1268{5}	10.487	10.950	582.4E6	484.0E6	562.986	546.066
Sum PCB 1268			2867.6E6	2348.7E6	2781.636	2707.899
Average PCB 1268					556.327	541.580
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

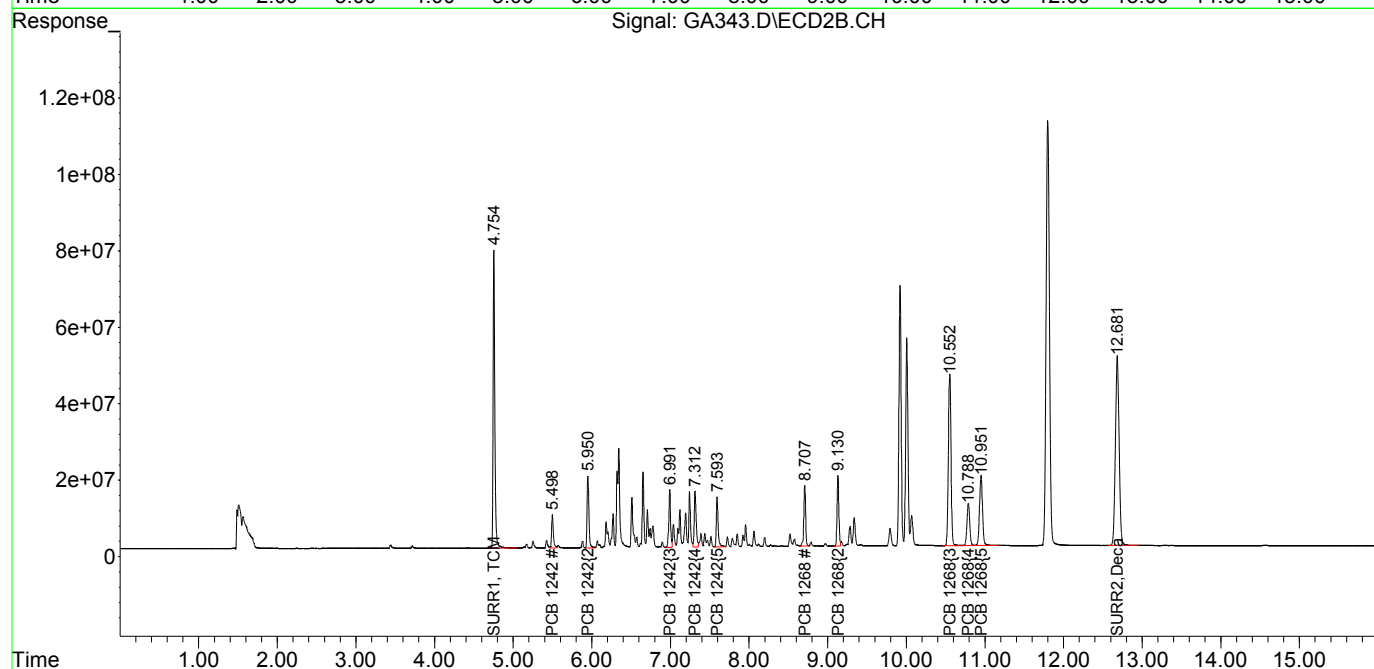
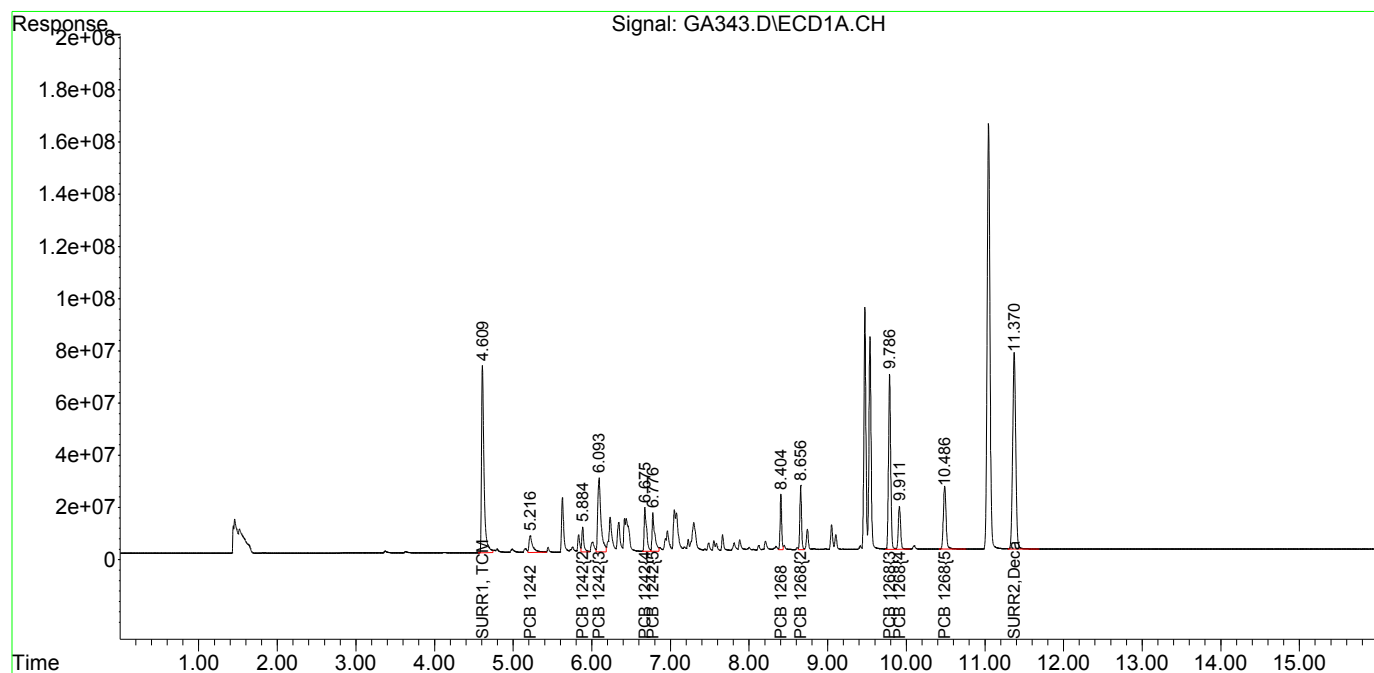
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA343.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:27 pm  
Operator : M.Pedro  
Sample : ar1242/68 m  
Misc : initial cal  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA344.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:46 pm  
Operator : M.Pedro  
Sample : ar1242/68 mh  
Misc : initial cal  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:57 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:48 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2064.5E6	1540.0E6	86.554	85.108
Spiked Amount	100.000	Range	30 - 150	Recovery	= 86.55%	85.11%
2) S SURR2, Dec...	11.375	12.684	2736.4E6	2184.0E6	108.870	108.056
Spiked Amount	100.000	Range	30 - 150	Recovery	= 108.87%	108.06%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.214	5.498	301.4E6	197.0E6	815.164	735.836
19) L4c PCB 1242{2}	5.884	5.951	248.8E6	439.0E6	803.051	740.896
20) L4c PCB 1242{3}	6.093	6.992	1192.6E6	335.4E6	790.739	754.015
21) L4c PCB 1242{4}	6.675	7.313	533.3E6	359.1E6	799.537	763.617
22) L4c PCB 1242{5}	6.777	7.594	504.1E6	303.8E6	798.738	779.465
Sum PCB 1242			2780.3E6	1634.3E6	4007.228	3773.830
Average PCB 1242					801.446	754.766
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.405	8.709	434.9E6	366.7E6	733.259	724.002
39) L8C PCB 1268{2}	8.657	9.131	541.7E6	429.8E6	726.935	715.182
40) L8C PCB 1268{3}	9.788	10.553	1893.0E6	1549.8E6	741.662	740.404
41) L8C PCB 1268{4}	9.914	10.790	490.0E6	391.5E6	737.739	734.313
42) L8C PCB 1268{5}	10.488	10.952	841.7E6	702.8E6	730.029	729.724
Sum PCB 1268			4201.3E6	3440.8E6	3669.623	3643.626
Average PCB 1268					733.925	728.725
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

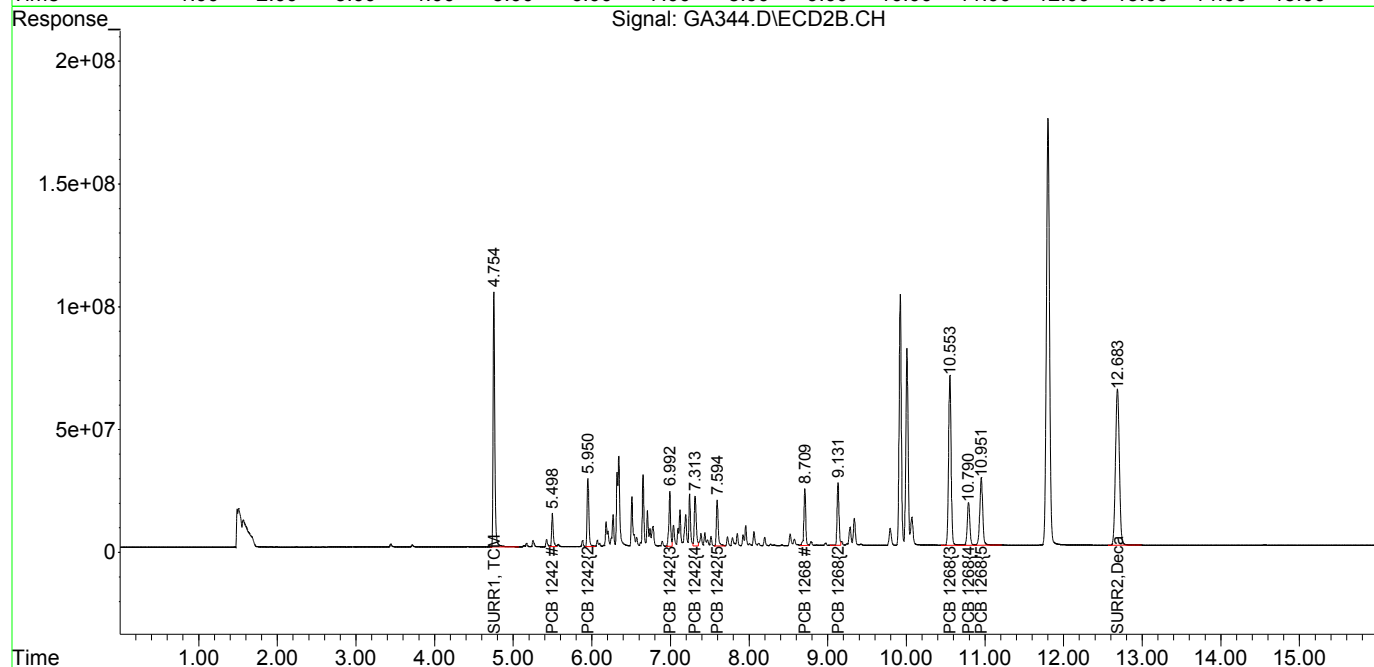
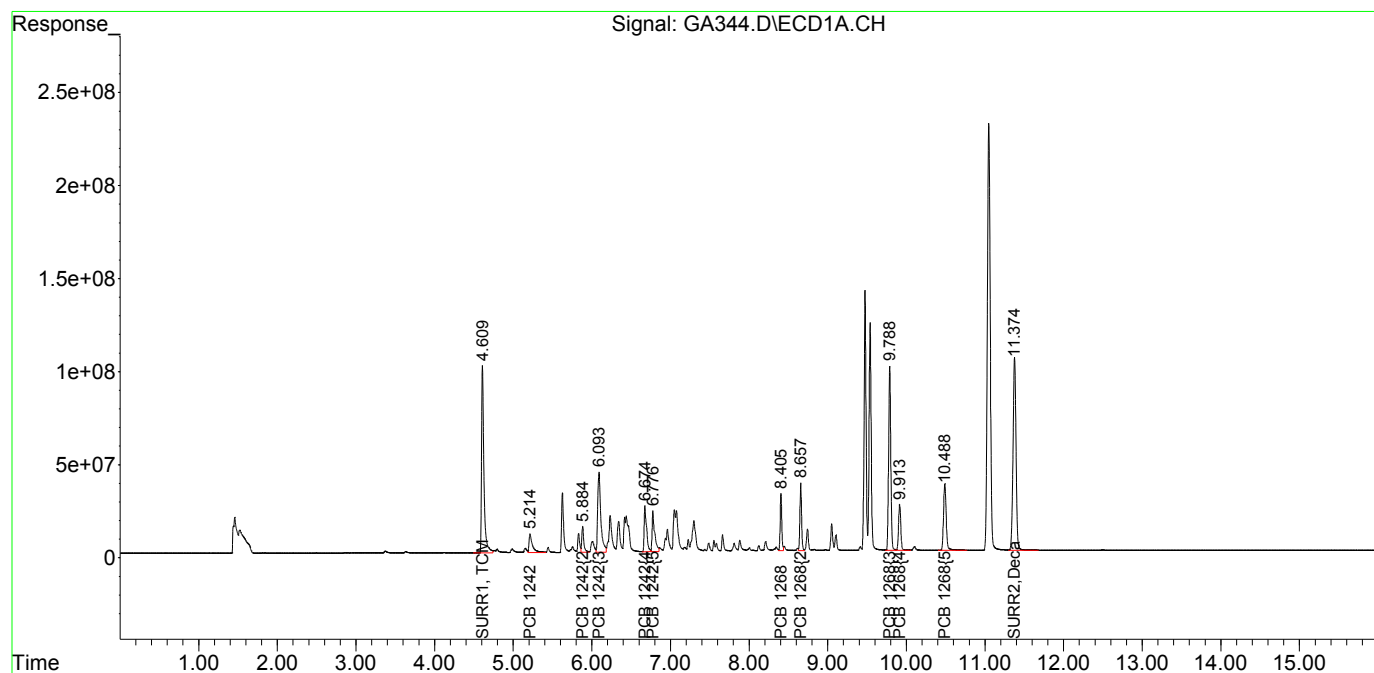




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA344.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:46 pm  
Operator : M.Pedro  
Sample : ar1242/68 mh  
Misc : initial cal  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:57 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:48 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA345.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 3:06 pm  
 Operator : M.Pedro  
 Sample : ar1242/68 h  
 Misc : initial cal  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:32:46 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:32:38 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	2634.2E6	1957.1E6	109.861	107.925
Spiked Amount	100.000	Range	30 - 150	Recovery	= 109.86%	107.93%
2) S SURR2, Dec...	11.373	12.684	3633.2E6	2887.3E6	132.400	130.961
Spiked Amount	100.000	Range	30 - 150	Recovery	= 132.40%	130.96%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.213	5.500	404.9E6	261.1E6	1094.984	975.345
19) L4c PCB 1242{2}	5.884	5.951	335.2E6	590.1E6	1081.743	996.050
20) L4c PCB 1242{3}	6.091	6.991	1636.4E6	459.5E6	1084.977	1033.050
21) L4c PCB 1242{4}	6.675	7.313	726.2E6	491.5E6	1088.690	1045.104
22) L4c PCB 1242{5}	6.776	7.594	693.6E6	421.5E6	1098.958	1081.333
Sum PCB 1242			3796.3E6	2223.7E6	5449.352	5130.882
Average PCB 1242					1089.870	1026.176
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.405	8.709	586.1E6	495.3E6	993.708	986.400
39) L8C PCB 1268{2}	8.656	9.131	724.5E6	577.8E6	979.719	972.648
40) L8C PCB 1268{3}	9.787	10.552	2577.1E6	2104.6E6	1012.486	1008.667
41) L8C PCB 1268{4}	9.912	10.788	663.1E6	529.6E6	1002.574	998.456
42) L8C PCB 1268{5}	10.487	10.952	1140.5E6	963.4E6	995.890	1007.088
Sum PCB 1268			5691.3E6	4670.7E6	4984.375	4973.260
Average PCB 1268					996.875	994.652
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

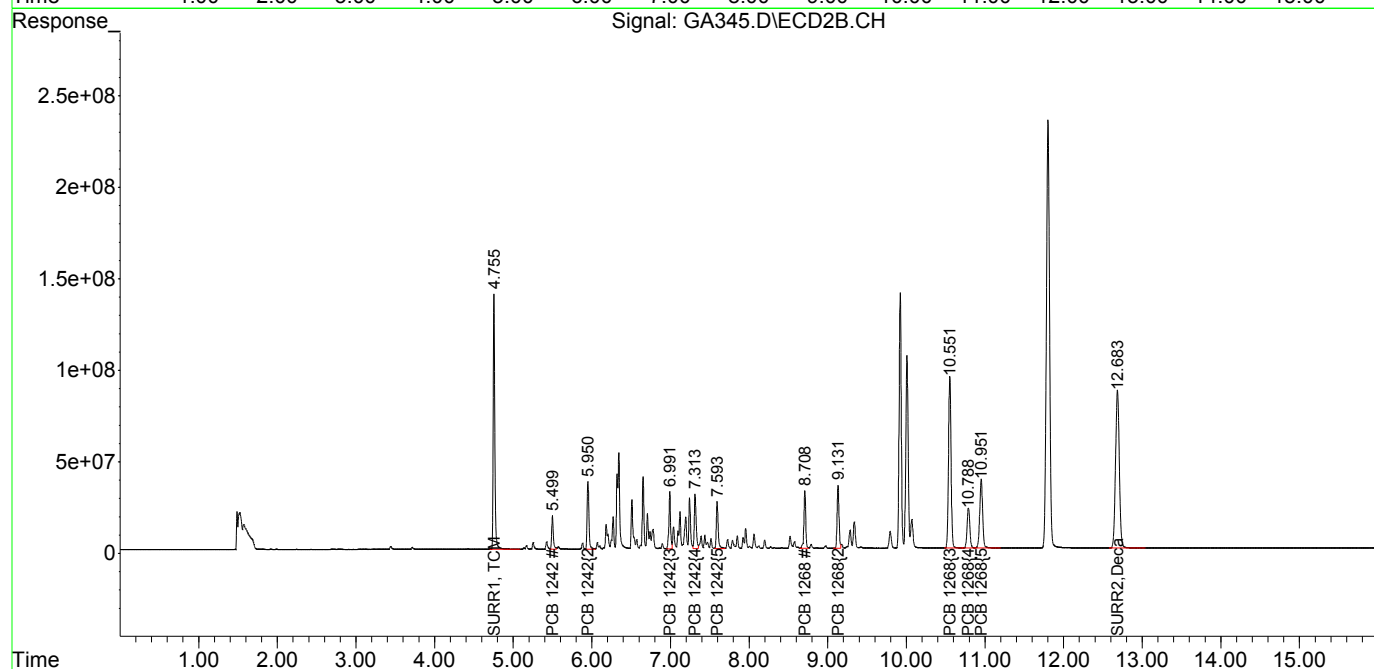
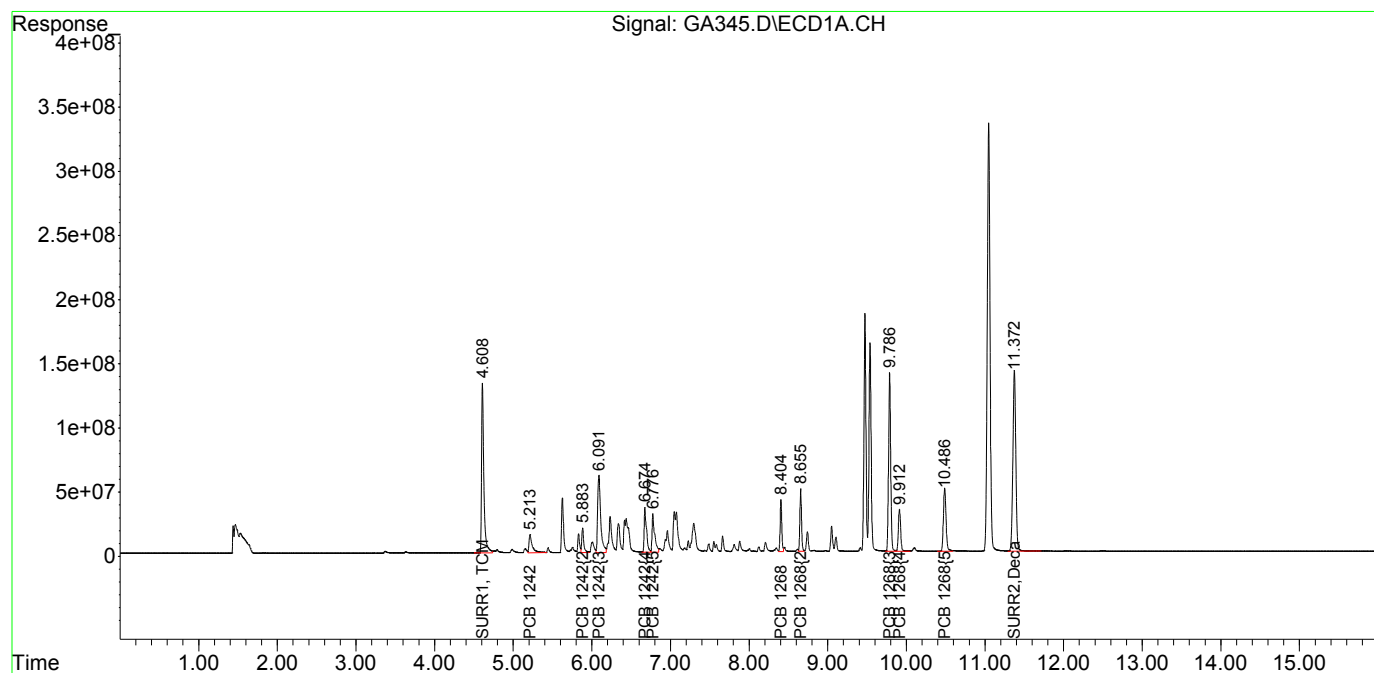
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA345.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:06 pm  
Operator : M.Pedro  
Sample : ar1242/68 h  
Misc : initial cal  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:32:46 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:32:38 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA346.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:26 pm  
Operator : M.Pedro  
Sample : ar1248 1  
Misc : initial cal  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:33:31 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:33:23 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l

System Monitoring Compounds

1) S SURR1, TCMX 4.612 4.756 546.7E6 406.7E6 21.172 20.911  
Spiked Amount 100.000 Range 30 - 150 Recovery = 21.17%# 20.91%#  
2) S SURR2,Dec... 11.372 12.685 460.1E6 368.8E6 14.647 14.631  
Spiked Amount 100.000 Range 30 - 150 Recovery = 14.65%# 14.63%#

Target Compounds

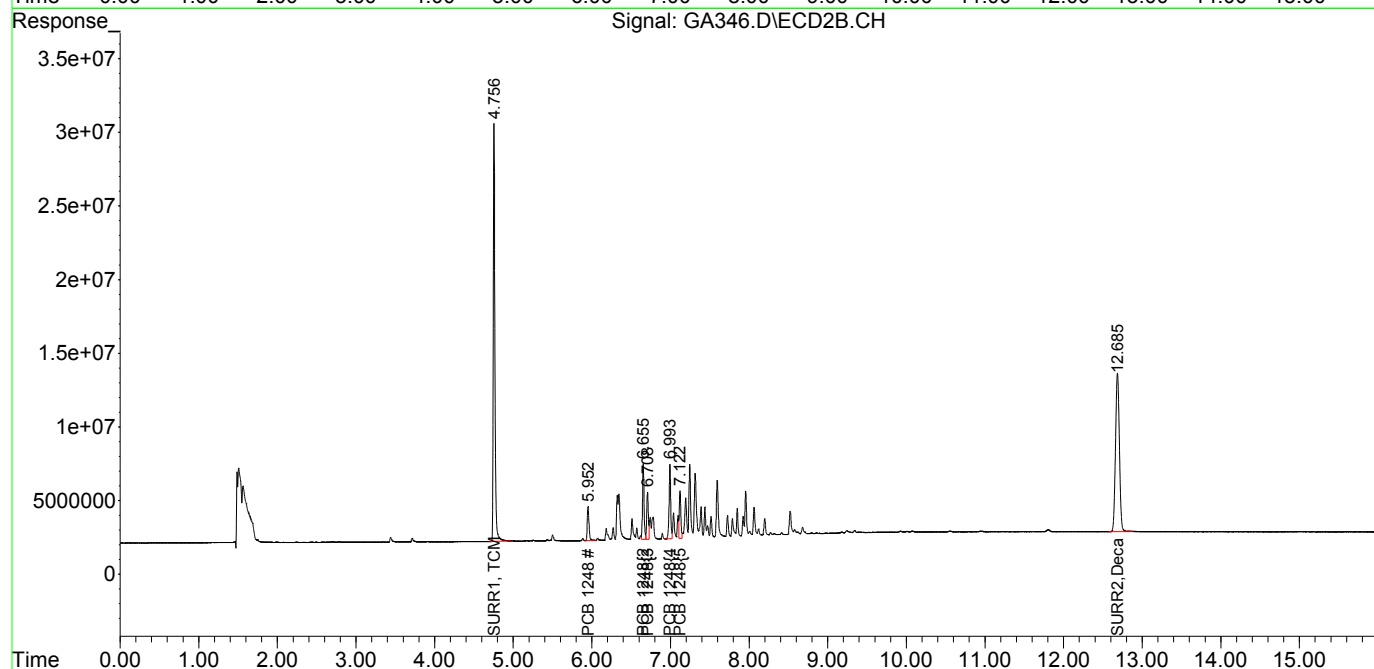
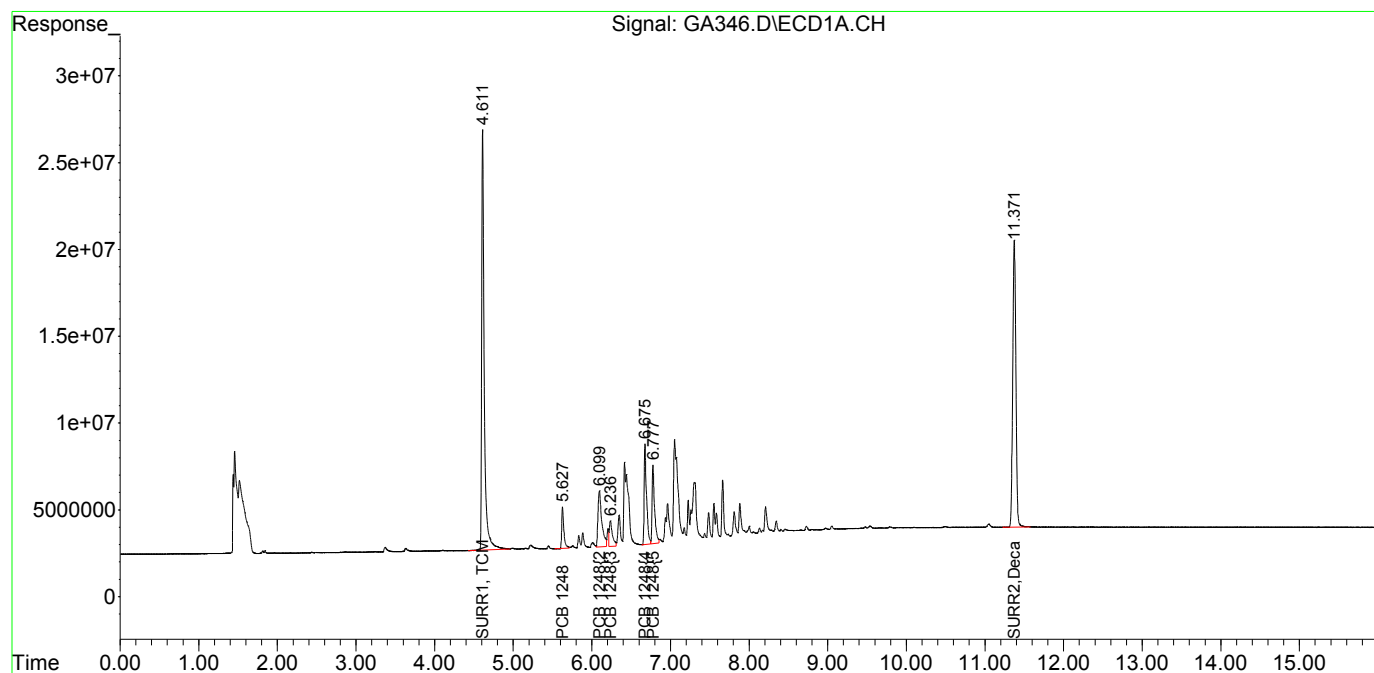
Sum PCB 1016 0 0 N.D. N.D.  
Average PCB 1016 0.000 0.000  
Sum PCB 1221 0 0 N.D. N.D.  
Average PCB 1221 0.000 0.000  
Sum PCB 1232 0 0 N.D. N.D.  
Average PCB 1232 0.000 0.000  
Sum PCB 1242 0 0 N.D. N.D.  
Average PCB 1242 0.000 0.000  
23) L5c PCB 1248 5.628 5.952 45799452 35917447 126.004 116.211  
24) L5c PCB 1248{2} 6.098 6.655 109.7E6 69869375 115.617 113.946  
25) L5c PCB 1248{3} 6.236 6.709 39823197 42682381 120.792 118.062  
26) L5c PCB 1248{4} 6.676 6.993 119.5E6 71255787 127.120 115.335  
27) L5c PCB 1248{5} 6.778 7.122 98107071 43606584 124.366 118.569  
Sum PCB 1248 412.9E6 263.3E6 613.900 582.122  
Average PCB 1248 122.780 116.424  
Sum PCB 1254 0 0 N.D. N.D.  
Average PCB 1254 0.000 0.000  
Sum PCB 1260 0 0 N.D. N.D.  
Average PCB 1260 0.000 0.000  
Sum PCB 1268 0 0 N.D. N.D.  
Average PCB 1268 0.000 0.000  
Sum PCB 1262 0 0 N.D. N.D.  
Average PCB 1262 0.000 0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA346.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:26 pm  
Operator : M.Pedro  
Sample : ar1248 1  
Misc : initial cal  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:33:31 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:33:23 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA347.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 3:45 pm  
 Operator : M.Pedro  
 Sample : ar1248 ml  
 Misc : initial cal  
 ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:34:20 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:34:11 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

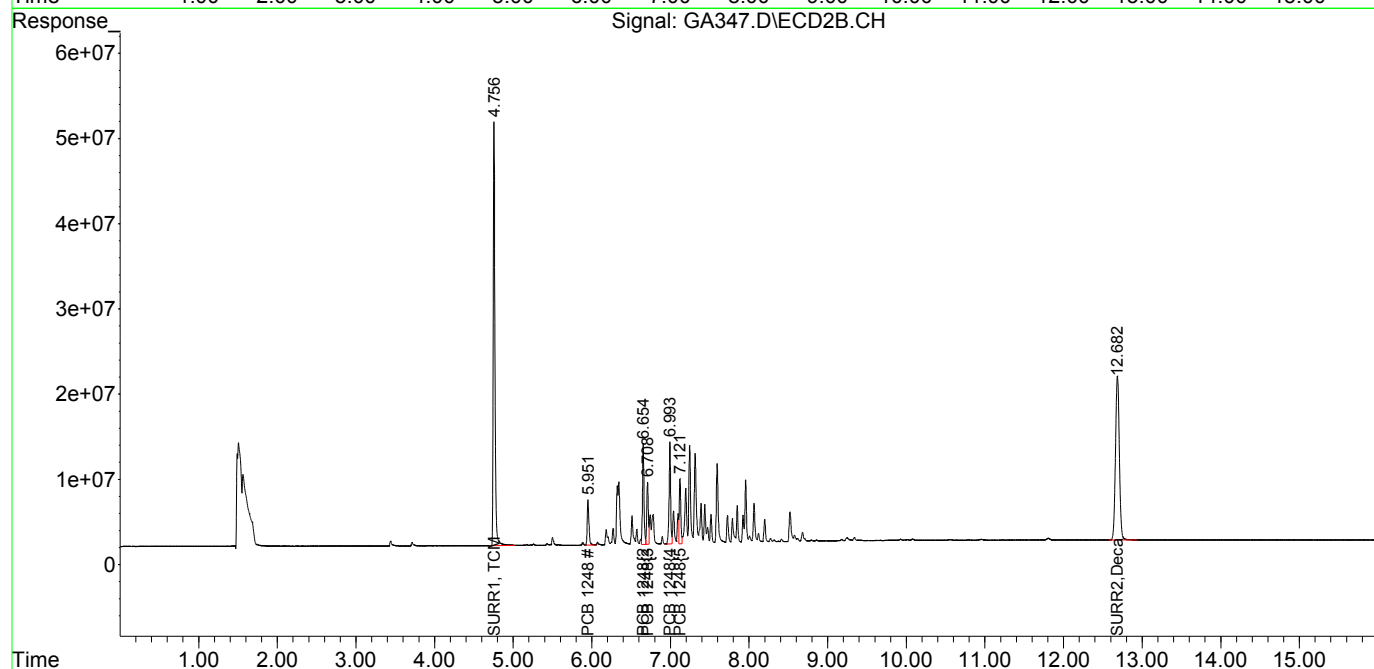
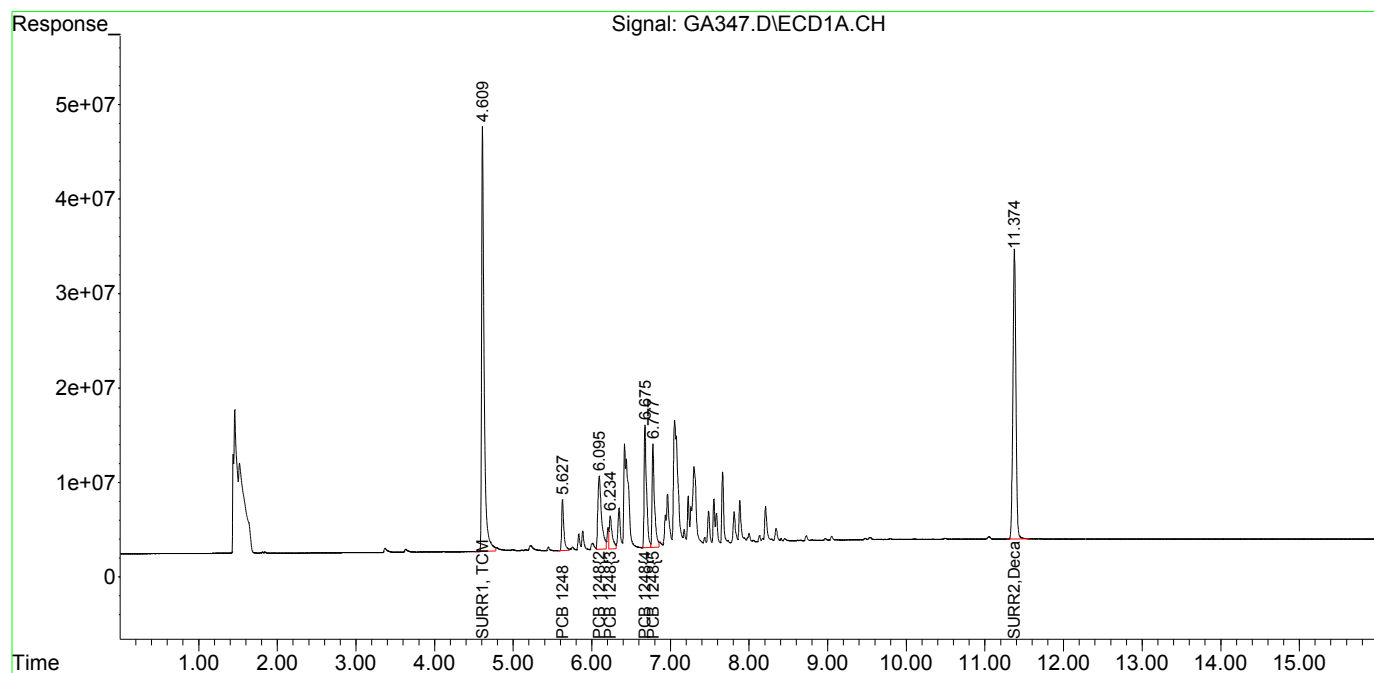
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	994.1E6	744.4E6	37.873	37.749
Spiked Amount	100.000	Range	30 - 150	Recovery	= 37.87%	37.75%
2) S SURR2, Dec...	11.374	12.683	812.4E6	653.5E6	26.675	26.750
Spiked Amount	100.000	Range	30 - 150	Recovery	= 26.67%#	26.75%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.628	5.952	105.5E6	81260291	270.637	255.598
24) L5c PCB 1248{2}	6.096	6.654	253.7E6	158.6E6	256.698	252.608
25) L5c PCB 1248{3}	6.235	6.709	90425684	96319674	252.906	256.673
26) L5c PCB 1248{4}	6.676	6.993	274.2E6	162.2E6	270.950	254.351
27) L5c PCB 1248{5}	6.778	7.122	228.4E6	100.7E6	269.251	261.028
Sum PCB 1248			952.2E6	599.1E6	1320.442	1280.259
Average PCB 1248					264.088	256.052
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA347.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:45 pm  
Operator : M.Pedro  
Sample : ar1248 ml  
Misc : initial cal  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:34:20 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:34:11 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA348.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 4:05 pm  
 Operator : M.Pedro  
 Sample : ar1248 m  
 Misc : initial cal  
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:35:01 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:34:52 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

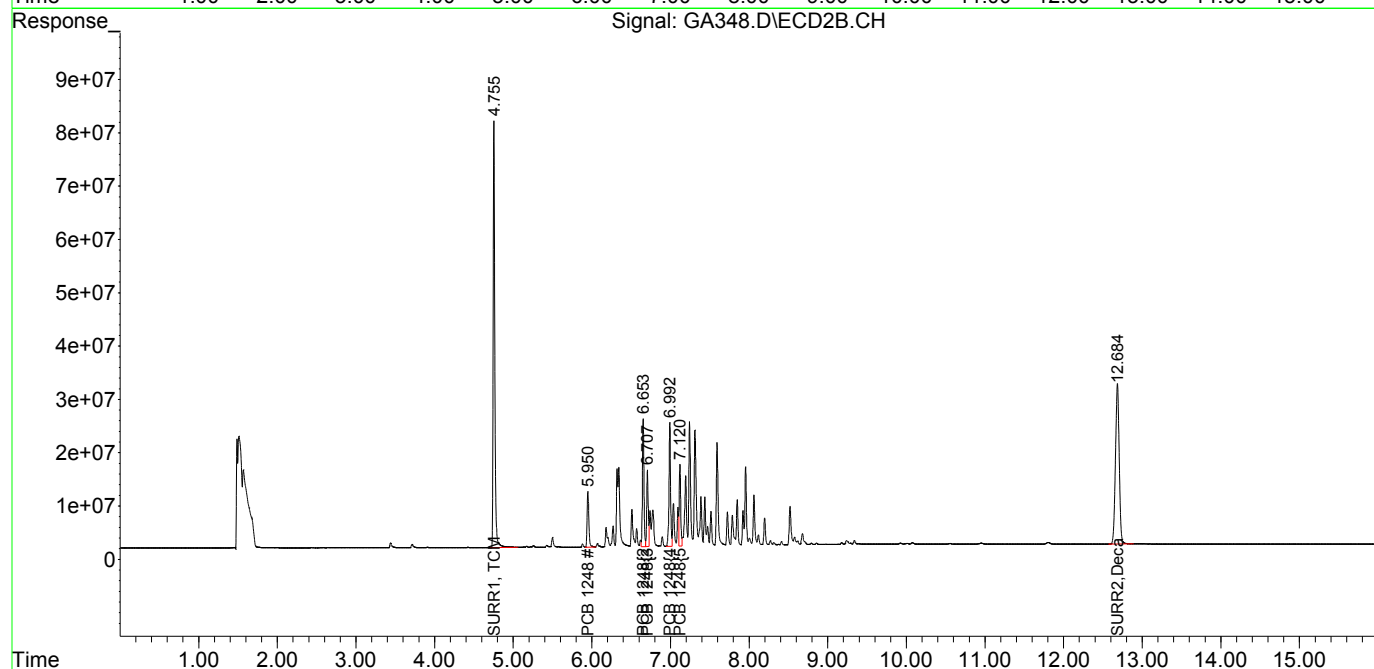
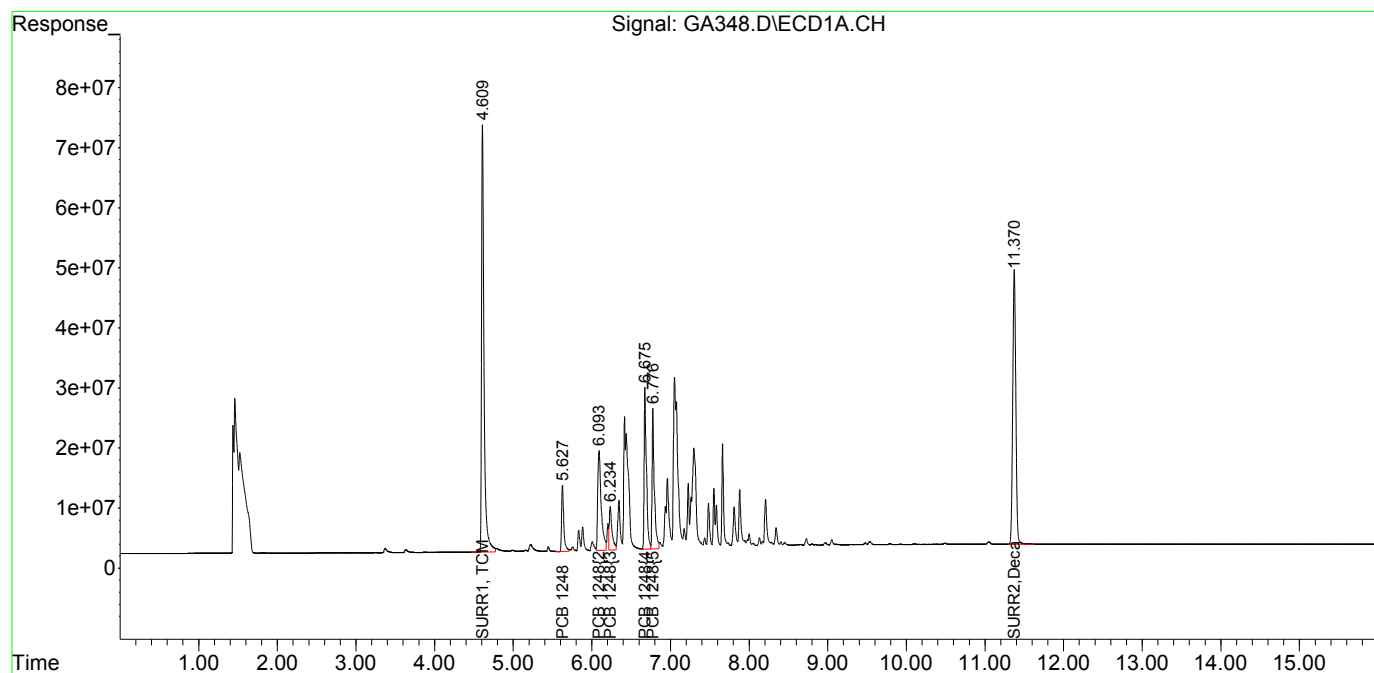
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.755	1550.3E6	1151.5E6	59.435	58.799
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.44%	58.80%
2) S SURR2, Dec...	11.371	12.684	1242.3E6	989.2E6	43.373	43.010
Spiked Amount	100.000	Range	30 - 150	Recovery =	43.37%	43.01%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.627	5.950	208.2E6	158.8E6	534.090	499.440
24) L5c PCB 1248{2}	6.094	6.653	512.3E6	314.3E6	518.440	500.602
25) L5c PCB 1248{3}	6.234	6.707	178.4E6	190.6E6	499.056	507.825
26) L5c PCB 1248{4}	6.675	6.992	549.7E6	323.3E6	543.255	507.167
27) L5c PCB 1248{5}	6.776	7.121	464.1E6	202.4E6	547.100	524.374
Sum PCB 1248			1912.8E6	1189.3E6	2641.941	2539.408
Average PCB 1248					528.388	507.882
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA348.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 4:05 pm  
Operator : M.Pedro  
Sample : ar1248 m  
Misc : initial cal  
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:35:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:34:52 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA349.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 4:24 pm  
 Operator : M.Pedro  
 Sample : ar1248 mh  
 Misc : initial cal  
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:35:55 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:35:46 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

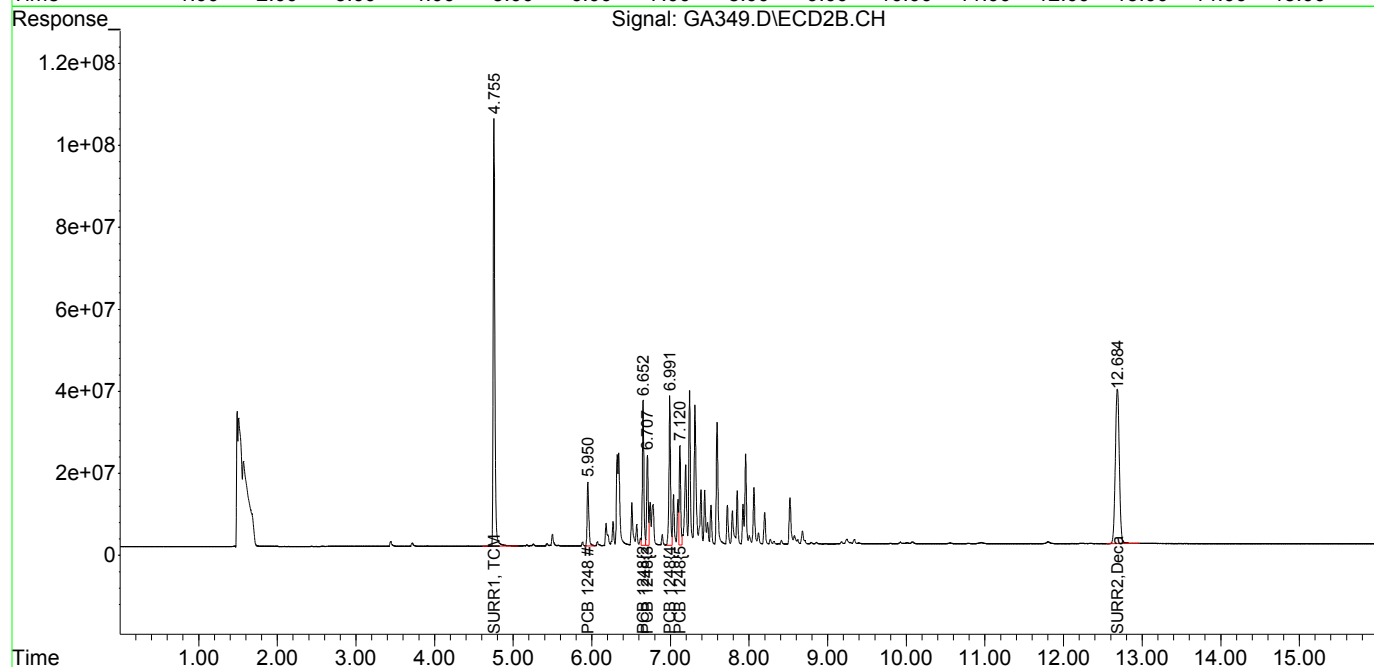
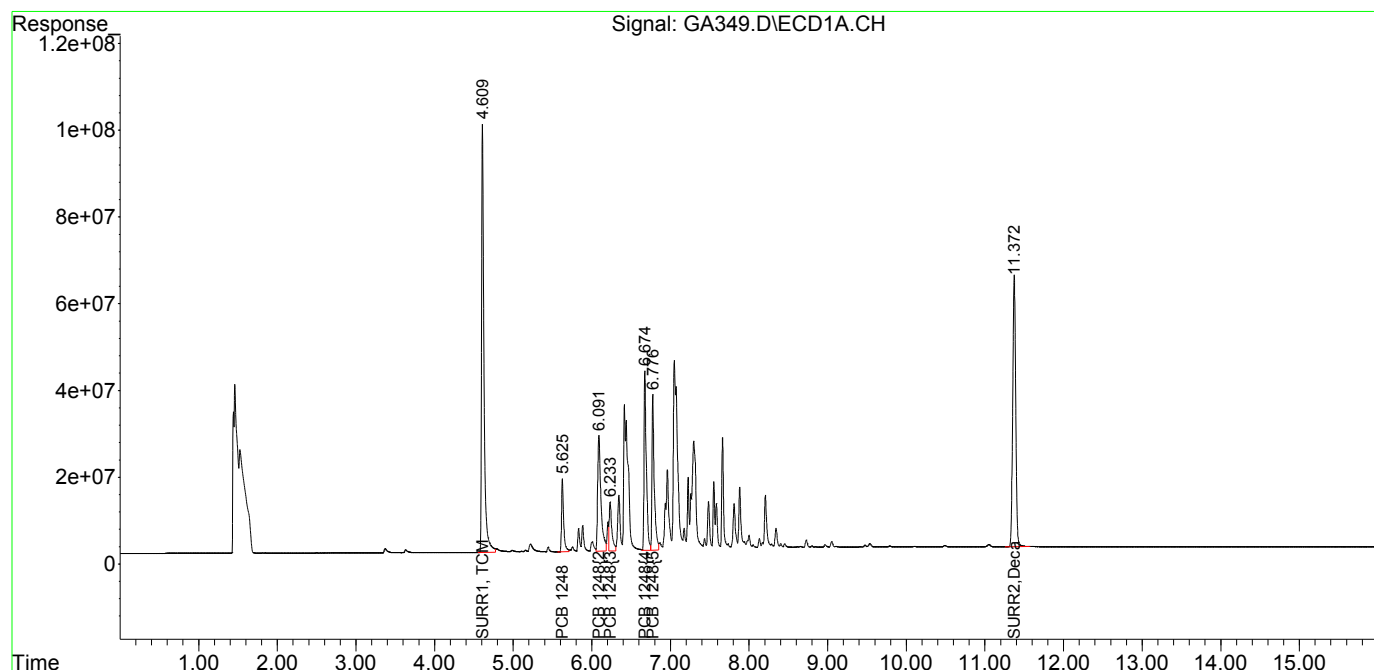
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2099.7E6	1548.9E6	80.584	79.266
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.58%	79.27%
2) S SURR2, Dec...	11.372	12.684	1658.1E6	1327.7E6	62.832	62.600
Spiked Amount	100.000	Range	30 - 150	Recovery	= 62.83%	62.60%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.626	5.950	312.8E6	236.0E6	765.421	732.164
24) L5c PCB 1248{2}	6.092	6.653	784.8E6	471.3E6	772.489	741.510
25) L5c PCB 1248{3}	6.234	6.708	269.6E6	284.9E6	716.365	742.758
26) L5c PCB 1248{4}	6.675	6.992	833.3E6	486.0E6	779.577	748.456
27) L5c PCB 1248{5}	6.776	7.121	708.5E6	303.8E6	790.046	761.537
Sum PCB 1248			2908.9E6	1782.0E6	3823.899	3726.424
Average PCB 1248					764.780	745.285
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA349.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 4:24 pm  
Operator : M.Pedro  
Sample : ar1248 mh  
Misc : initial cal  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:35:55 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:35:46 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA350.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 4:44 pm  
 Operator : M.Pedro  
 Sample : ar1248 h  
 Misc : initial cal  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:36:41 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:36:33 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

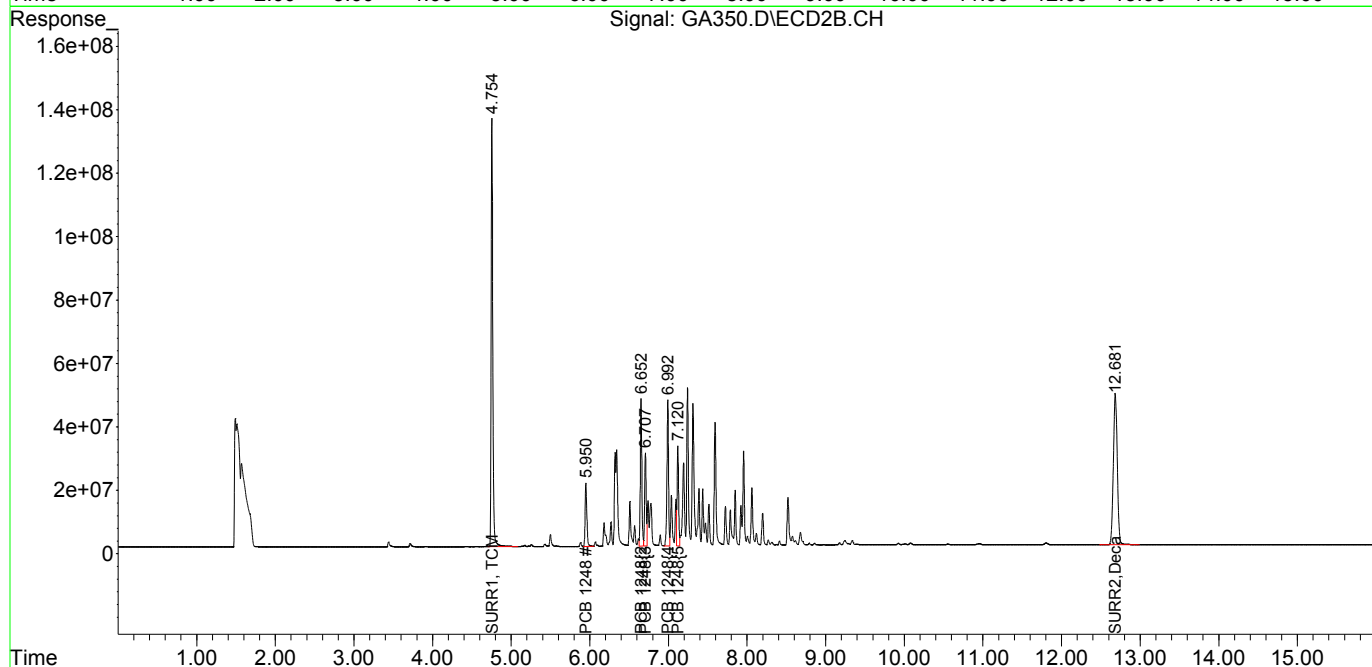
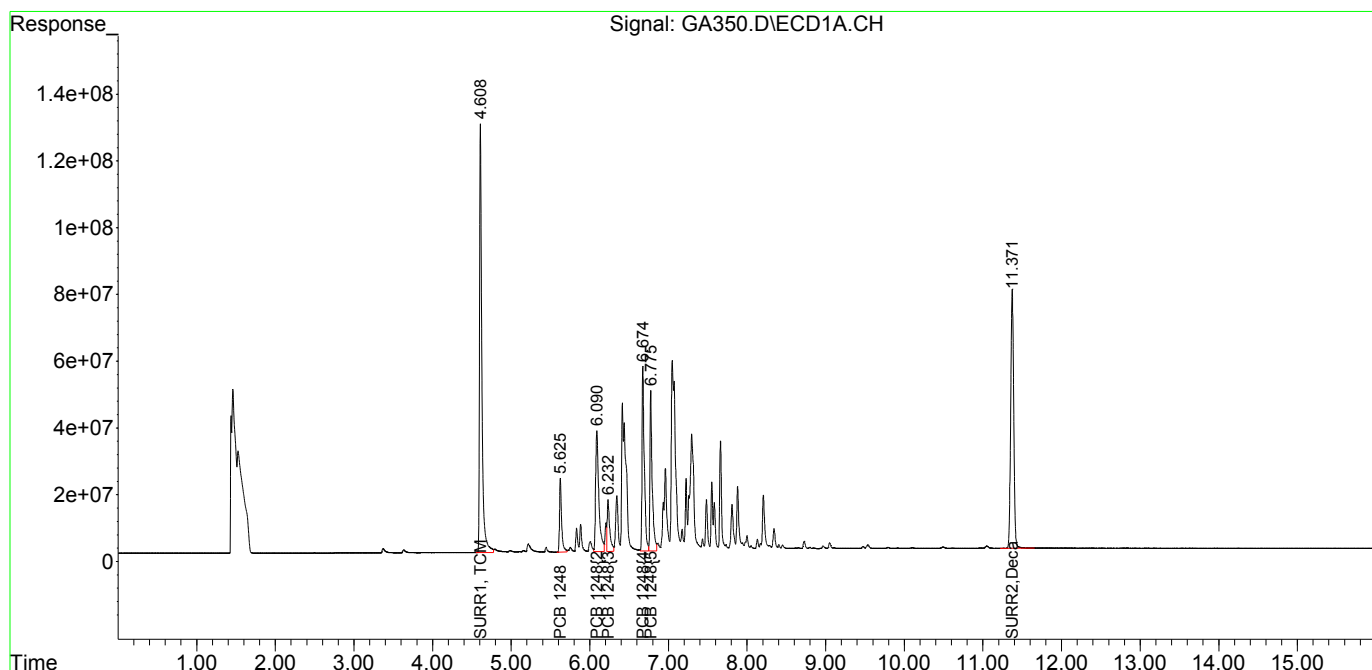
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2632.4E6	1937.7E6	100.743	99.066
Spiked Amount	100.000	Range	30 - 150	Recovery =	100.74%	99.07%
2) S SURR2, Dec...	11.372	12.682	2065.2E6	1648.9E6	85.541	84.885
Spiked Amount	100.000	Range	30 - 150	Recovery =	85.54%	84.89%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.625	5.950	410.2E6	308.1E6	1003.975	955.987
24) L5c PCB 1248{2}	6.091	6.652	1039.7E6	618.0E6	1023.404	972.165
25) L5c PCB 1248{3}	6.233	6.708	355.2E6	373.0E6	943.947	972.358
26) L5c PCB 1248{4}	6.674	6.992	1097.8E6	638.2E6	1027.048	982.967
27) L5c PCB 1248{5}	6.775	7.120	938.0E6	401.6E6	1045.922	1006.527
Sum PCB 1248			3840.9E6	2338.9E6	5044.296	4890.004
Average PCB 1248					1008.859	978.001
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA350.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 4:44 pm  
Operator : M.Pedro  
Sample : ar1248 h  
Misc : initial cal  
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:36:41 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:36:33 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

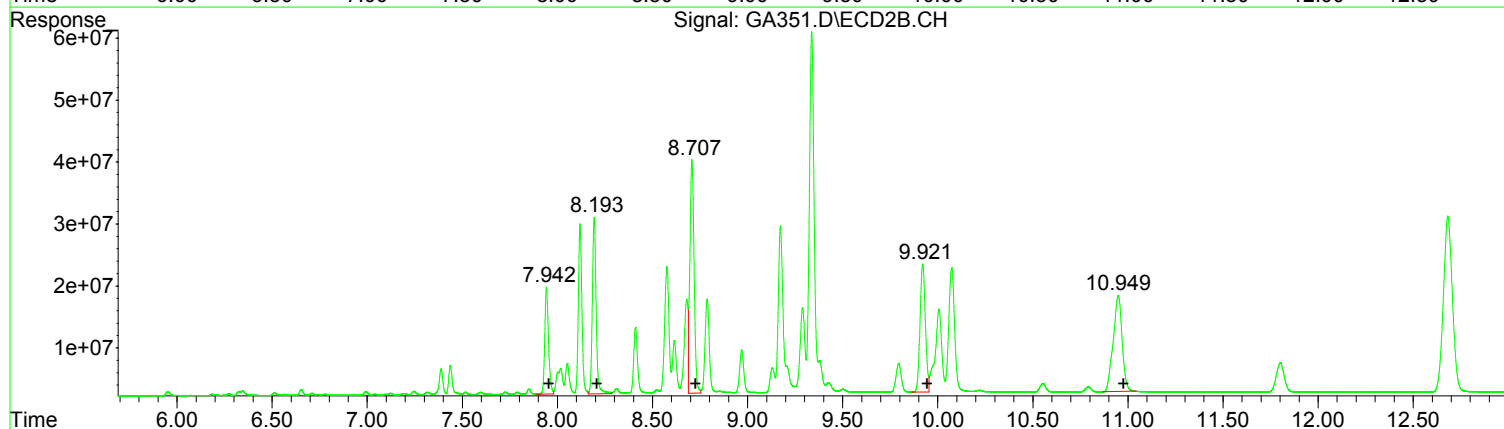
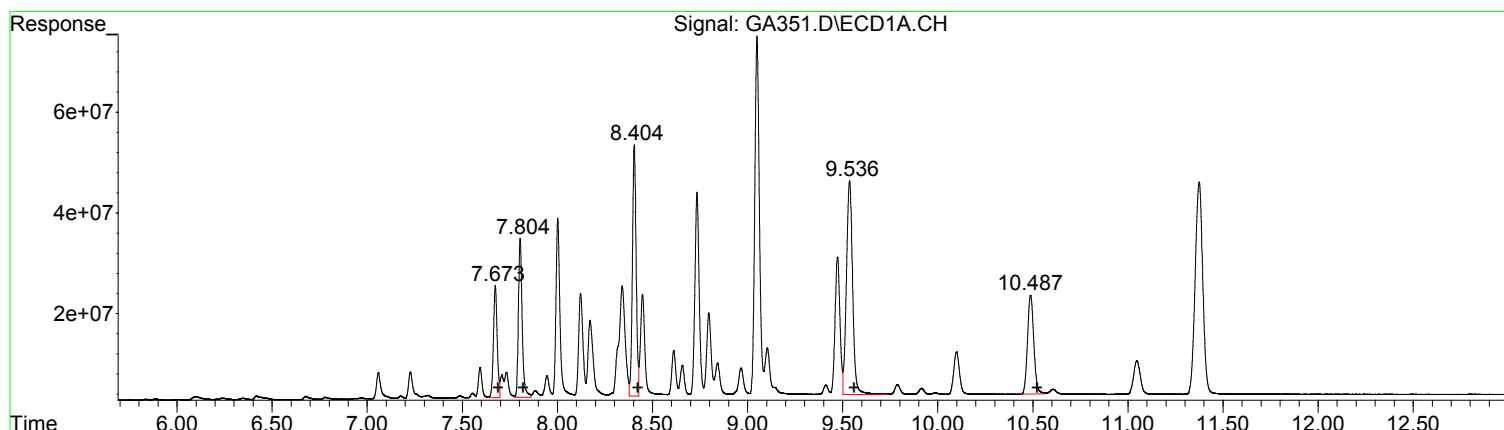
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(43) PCB 1262 (L9C)		
R.T.	Response	Conc
7.67	302354559	597.81
7.80	435834377	614.98
8.40	693598533	632.95
9.54	963774782	645.76
10.49	446499211	622.02

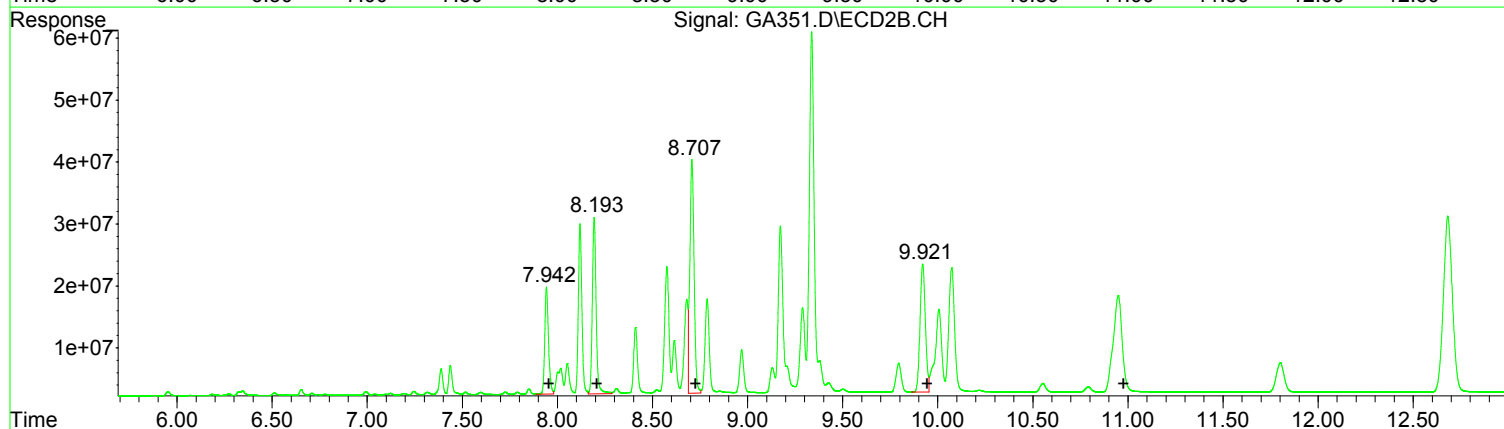
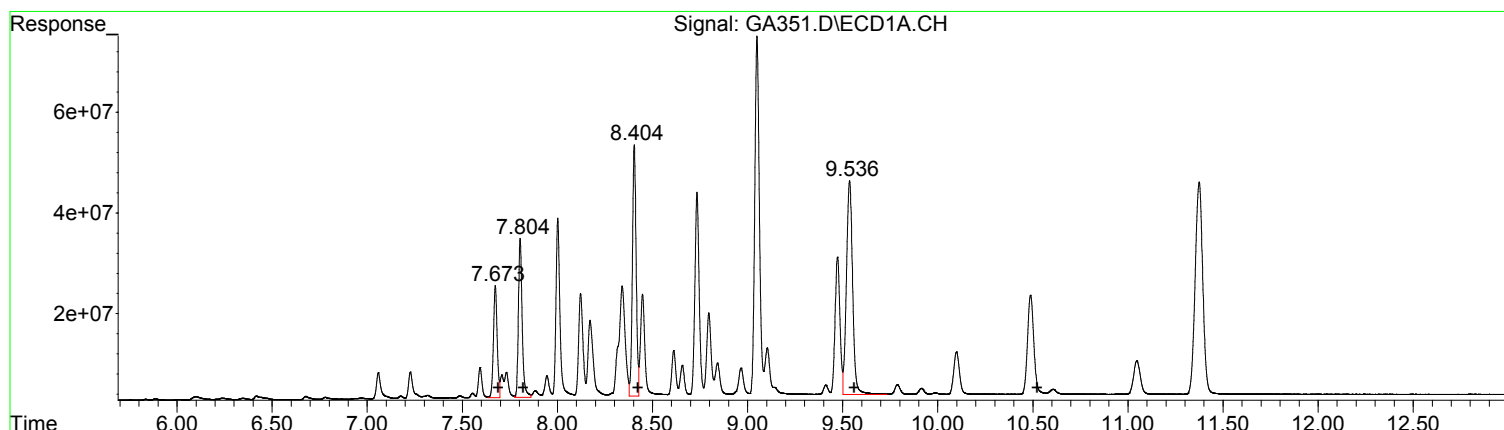
(43) PCB 1262 #2 (L9C)		
R.T.	Response	Conc
7.94	235655341	559.21
8.19	392491866	583.04
8.71	586339125	620.60
9.92	404843127	600.56
10.95	507675140	575.31

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(43) PCB 1262 (L9C)

R.T.	Response	Conc
7.67	302354559	597.81
7.80	435834377	614.98
8.40	693598533	632.95
9.54	963774782	645.76
0.00	0	0.00

Manual Integration:  
Before  
01/11/18

(43) PCB 1262 #2 (L9C)

R.T.	Response	Conc
7.94	235655341	559.21
8.19	392491866	583.04
8.71	586339125	620.60
9.92	404843127	600.56
0.00	0	0.00



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

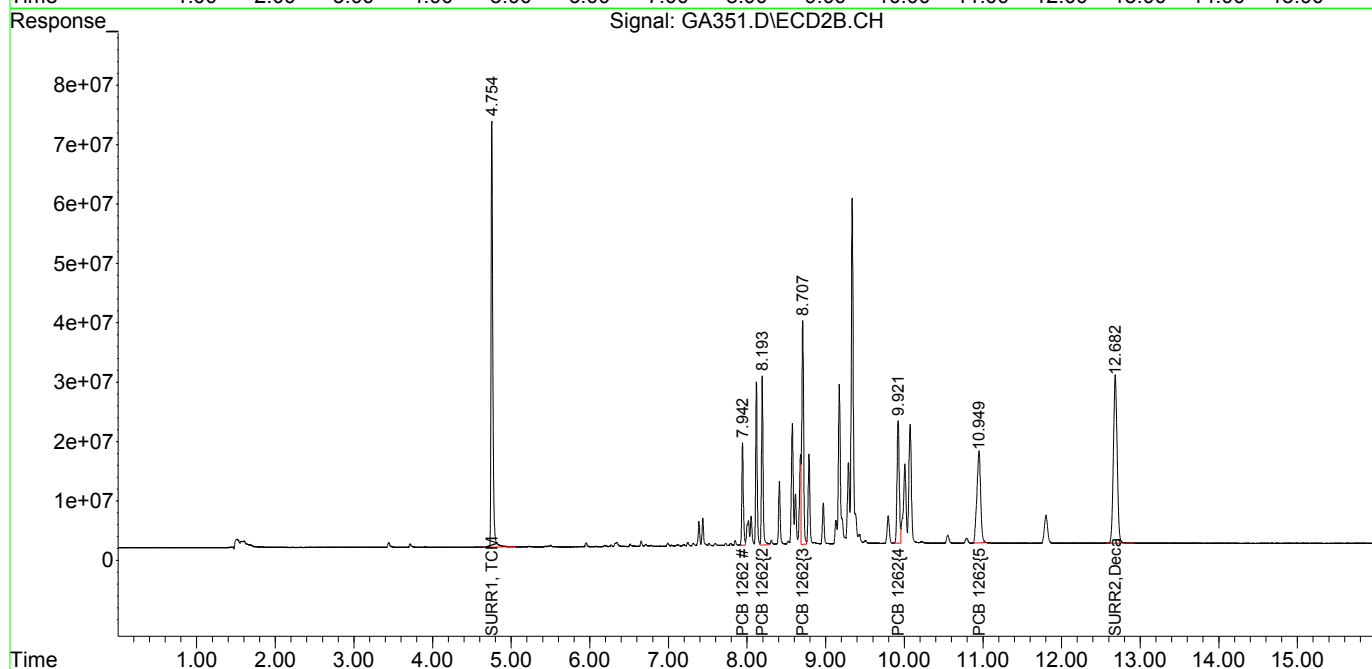
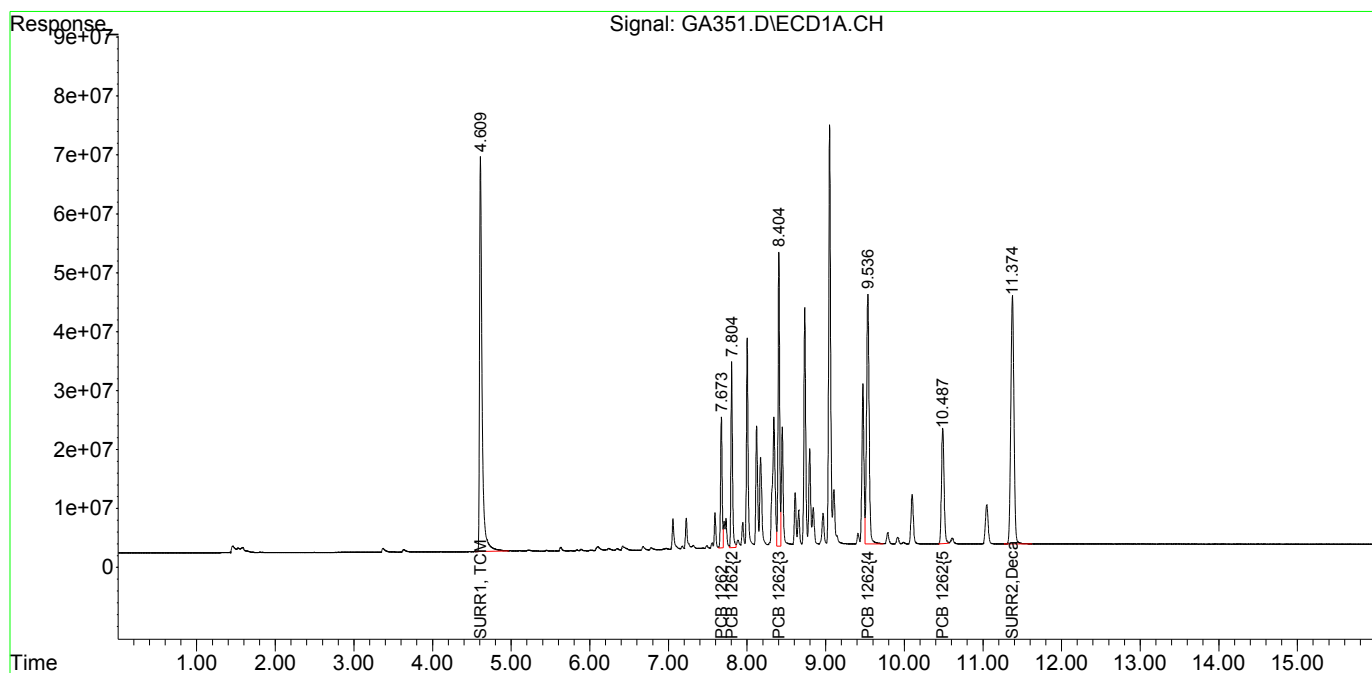
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.754	1480.3E6	1084.4E6	56.656	55.535
Spiked Amount	100.000	Range	30 - 150	Recovery	= 56.66%	55.54%
2) S SURR2,Dec...	11.374	12.682	1173.4E6	935.0E6	54.504	53.859
Spiked Amount	100.000	Range	30 - 150	Recovery	= 54.50%	53.86%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
43) L9C PCB 1262	7.673	7.942	302.4E6	235.7E6	597.810	559.206
44) L9C PCB 1262{2}	7.804	8.193	435.8E6	392.5E6	614.978	583.042
45) L9C PCB 1262{3}	8.404	8.707	693.6E6	586.3E6	632.951	620.596
46) L9C PCB 1262{4}	9.536	9.921	963.8E6	404.8E6	645.755	600.562
47) L9C PCB 1262{5}	10.487	10.949	446.5E6	507.7E6	622.020m	575.312m
Sum PCB 1262			2842.1E6	2127.0E6	3113.515	2938.719
Average PCB 1262					622.703	587.744

-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

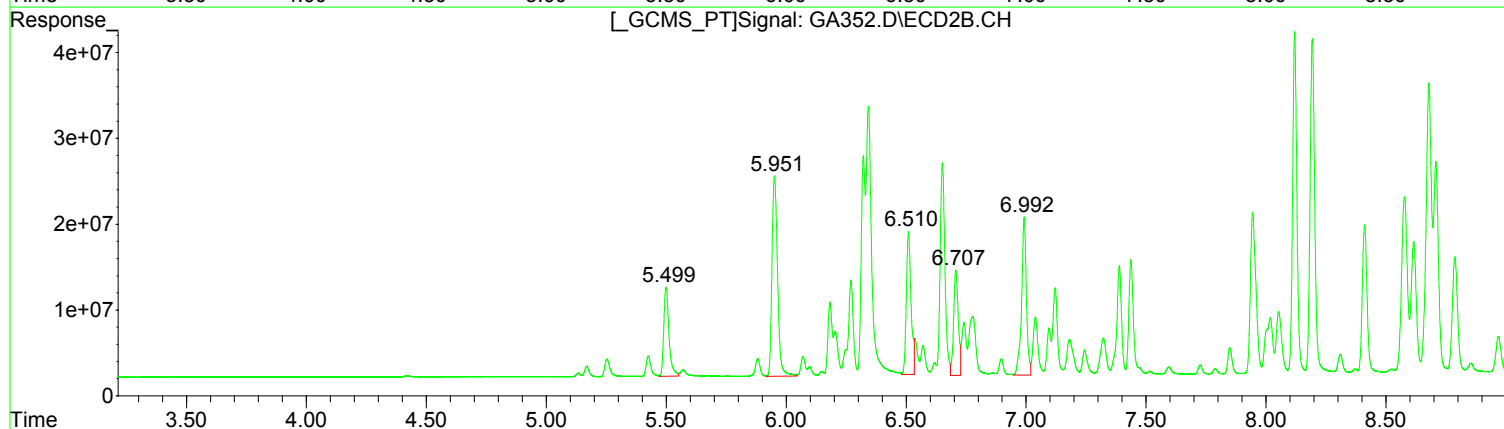
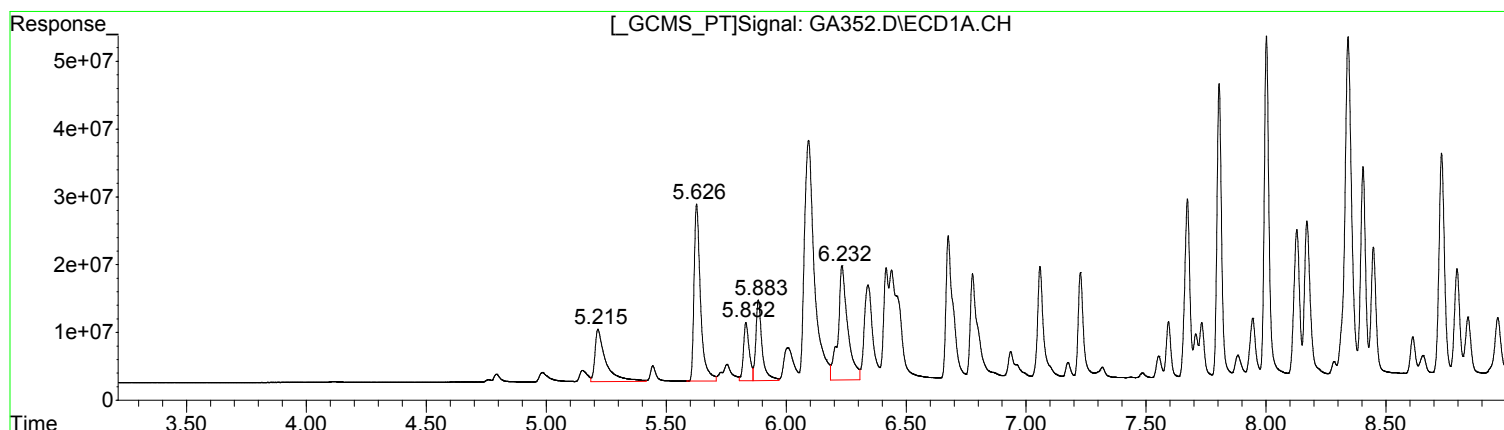
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	239877935	504.80
5.63	488517082	502.32
5.83	142869753	522.62
5.88	214222354	520.54
6.23	476200868	527.95

Manual Integration:  
After  
Poor integration.  
01/11/18

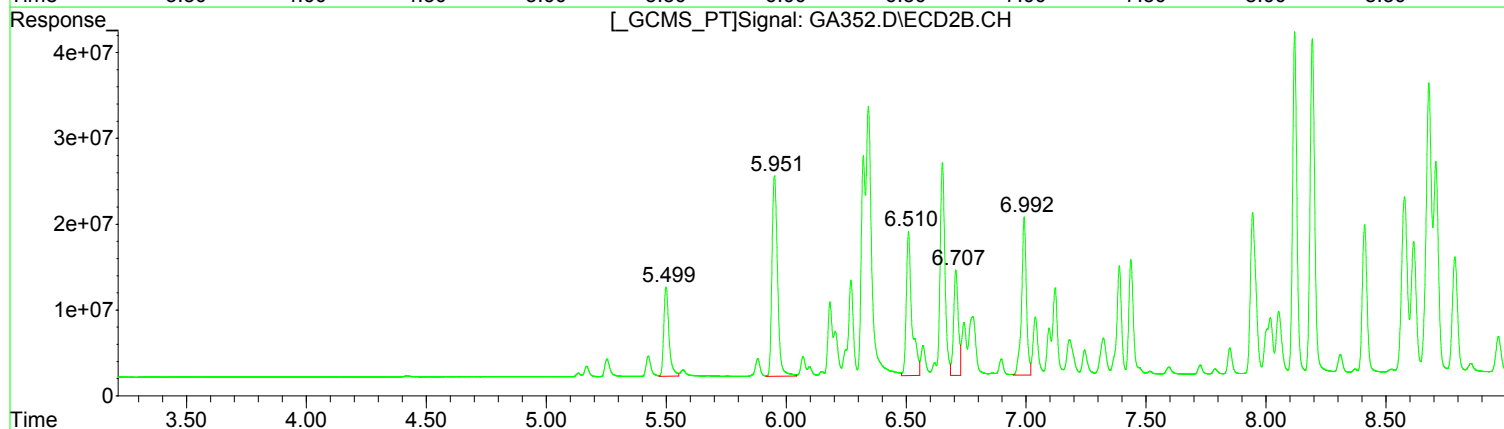
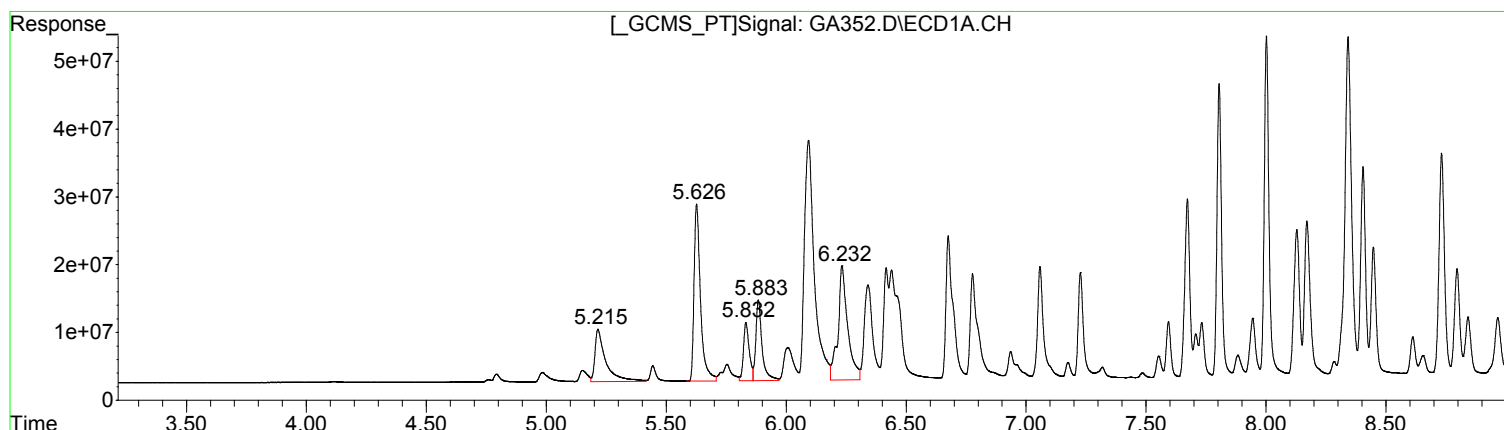
(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	156602428	475.93
5.95	377320173	496.21
6.51	229519446	483.20
6.71	164252465	508.26
6.99	256564310	465.81

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	239877935	504.80
5.63	488517082	502.32
5.83	142869753	522.62
5.88	214222354	520.54
6.23	476200868	527.95

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	156602428	475.93
5.95	377320173	496.21
6.51	271487322	571.56
6.71	164252465	508.26
6.99	256564310	465.81

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
3 L1c PCB 1016	500.000	504.797	-1.0	98	0.00
4 L1c PCB 1016{2}	500.000	502.323	-0.5	103	0.00
5 L1c PCB 1016{3}	500.000	522.616	-4.5	103	0.00
6 L1c PCB 1016{4}	500.000	520.543	-4.1	105	0.00
7 L1c PCB 1016{5}	500.000	527.946	-5.6	106	0.00
33 L7c PCB 1260	500.000	456.255	8.7	95	0.00
34 L7c PCB 1260{2}	500.000	444.461	11.1	94	0.00
35 L7c PCB 1260{3}	500.000	474.115	5.2	96	0.00
36 L7C PCB 1260{4}	500.000	488.008	2.4	98	0.00
37 L7C PCB 1260{5}	500.000	514.834	-3.0	104	0.00

Signal #2

3 L1c PCB 1016	500.000	475.931	4.8	98	0.00
4 L1c PCB 1016{2}	500.000	496.211	0.8	103	0.00
5 L1c PCB 1016{3}	500.000	483.202	3.4	103	0.00
6 L1c PCB 1016{4}	500.000	508.259	-1.7	105	0.00
7 L1c PCB 1016{5}	500.000	465.811	6.8	95	0.00
33 L7c PCB 1260	500.000	448.314	10.3	93	0.00
34 L7c PCB 1260{2}	500.000	487.790	2.4	99	0.00
35 L7c PCB 1260{3}	500.000	485.881	2.8	98	0.00
36 L7C PCB 1260{4}	500.000	475.085	5.0	97	0.00
37 L7C PCB 1260{5}	500.000	502.386	-0.5	103	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, TCMX	60.000	0.000	100.0#	0	-4.61#
2 S SURR2,Decachlorobiphenyl	60.000	0.000	100.0#	0	-11.37#
8 L2c PCB 1221	500.000	0.000	100.0#	0	-4.11#
9 L2c PCB 1221{2}	500.000	0.000	100.0#	0	-4.98#
10 L2c PCB 1221{3}	500.000	0.000	100.0#	0	-5.15#
11 L2c PCB 1221{4}	500.000	0.000	100.0#	0	-5.22#
12 L2c PCB 1221{5}	500.000	0.000	100.0#	0	-5.63#
13 L3c PCB 1232	500.000	0.000	100.0#	0	-5.22#
14 L3c PCB 1232{2}	500.000	0.000	100.0#	0	-5.63#
15 L3c PCB 1232{3}	500.000	0.000	100.0#	0	-6.09#
16 L3c PCB 1232{4}	500.000	0.000	100.0#	0	-6.23#
17 L3c PCB 1232{5}	500.000	0.000	100.0#	0	-6.68#
18 L4c PCB 1242	500.000	0.000	100.0#	0	-5.22#
19 L4c PCB 1242{2}	500.000	0.000	100.0#	0	-5.88#
20 L4c PCB 1242{3}	500.000	0.000	100.0#	0	-6.09#
21 L4c PCB 1242{4}	500.000	0.000	100.0#	0	-6.68#
22 L4c PCB 1242{5}	500.000	0.000	100.0#	0	-6.78#
23 L5c PCB 1248	500.000	0.000	100.0#	0	-5.63#

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24 L5c PCB 1248{2}	500.000	0.000	100.0#	0	-6.09#
25 L5c PCB 1248{3}	500.000	0.000	100.0#	0	-6.23#
26 L5c PCB 1248{4}	500.000	0.000	100.0#	0	-6.68#
27 L5c PCB 1248{5}	500.000	0.000	100.0#	0	-6.78#
28 L6c PCB 1254	500.000	0.000	100.0#	0	-7.49#
29 L6c PCB 1254{2}	500.000	0.000	100.0#	0	-7.55#
30 L6c PCB 1254{3}	500.000	0.000	100.0#	0	-7.66#
31 L6c PCB 1254{4}	500.000	0.000	100.0#	0	-7.81#
32 L6c PCB 1254{5}	500.000	0.000	100.0#	0	-8.73#
38 L8C PCB 1268	500.000	0.000	100.0	0	-8.40#
39 L8C PCB 1268{2}	500.000	0.000	100.0	0	-8.66#
40 L8C PCB 1268{3}	500.000	0.000	100.0	0	-9.79#
41 L8C PCB 1268{4}	500.000	0.000	100.0	0	-9.91#
42 L8C PCB 1268{5}	500.000	0.000	100.0	0	-10.49#
43 L9C PCB 1262	500.000	0.000	100.0	0	-7.67#
44 L9C PCB 1262{2}	500.000	0.000	100.0	0	-7.80#
45 L9C PCB 1262{3}	500.000	0.000	100.0	0	-8.40#
46 L9C PCB 1262{4}	500.000	0.000	100.0	0	-9.54#
47 L9C PCB 1262{5}	500.000	0.000	100.0	0	-10.49#

Signal #2

1 S SURR1, TCMX	60.000	0.000	100.0#	0	-4.76#
2 S SURR2,Decachlorobiphenyl	60.000	0.000	100.0#	0	-12.68#
8 L2c PCB 1221	500.000	0.000	100.0#	0	-4.42#
9 L2c PCB 1221{2}	500.000	0.000	100.0#	0	-5.25#
10 L2c PCB 1221{3}	500.000	0.000	100.0#	0	-5.43#
11 L2c PCB 1221{4}	500.000	0.000	100.0#	0	-5.50#
12 L2c PCB 1221{5}	500.000	0.000	100.0#	0	-5.57#
13 L3c PCB 1232	500.000	0.000	100.0#	0	-5.43#
14 L3c PCB 1232{2}	500.000	0.000	100.0#	0	-5.50#
15 L3c PCB 1232{3}	500.000	0.000	100.0#	0	-5.95#
16 L3c PCB 1232{4}	500.000	0.000	100.0#	0	-7.24#
17 L3c PCB 1232{5}	500.000	0.000	100.0#	0	-7.31#
18 L4c PCB 1242	500.000	0.000	100.0#	0	-5.50#
19 L4c PCB 1242{2}	500.000	0.000	100.0#	0	-5.95#
20 L4c PCB 1242{3}	500.000	0.000	100.0#	0	-6.99#
21 L4c PCB 1242{4}	500.000	0.000	100.0#	0	-7.31#
22 L4c PCB 1242{5}	500.000	0.000	100.0#	0	-7.59#
23 L5c PCB 1248	500.000	0.000	100.0#	0	-5.95#
24 L5c PCB 1248{2}	500.000	0.000	100.0#	0	-6.65#
25 L5c PCB 1248{3}	500.000	0.000	100.0#	0	-6.71#
26 L5c PCB 1248{4}	500.000	0.000	100.0#	0	-6.99#
27 L5c PCB 1248{5}	500.000	0.000	100.0#	0	-7.12#

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA352.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 5:23 pm  
 Operator : M.Pedro  
 Sample : ar1660 icv  
 Misc : initial cal  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:43:28 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:42:59 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28 L6c PCB 1254	500.000	0.000	100.0#	0	-7.44#
29 L6c PCB 1254{2}	500.000	0.000	100.0#	0	-7.85#
30 L6c PCB 1254{3}	500.000	0.000	100.0#	0	-8.06#
31 L6c PCB 1254{4}	500.000	0.000	100.0#	0	-8.68#
32 L6c PCB 1254{5}	500.000	0.000	100.0#	0	-9.24#
38 L8C PCB 1268	500.000	0.000	100.0	0	-8.71#
39 L8C PCB 1268{2}	500.000	0.000	100.0	0	-9.13#
40 L8C PCB 1268{3}	500.000	0.000	100.0	0	-10.55#
41 L8C PCB 1268{4}	500.000	0.000	100.0	0	-10.79#
42 L8C PCB 1268{5}	500.000	0.000	100.0	0	-10.95#
43 L9C PCB 1262	500.000	0.000	100.0	0	-7.94#
44 L9C PCB 1262{2}	500.000	0.000	100.0	0	-8.19#
45 L9C PCB 1262{3}	500.000	0.000	100.0	0	-8.71#
46 L9C PCB 1262{4}	500.000	0.000	100.0	0	-9.92#
47 L9C PCB 1262{5}	500.000	0.000	100.0	0	-10.95#

(#) = Out of Range

SPCC's out = 0 CCC's out = 50

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1800011-01	ar1660l	I:\ACQUADATA\6890D\DATA\011018\GA325.D	01/10/2018 08:32
02	RC1800011-02	ar1660l	I:\ACQUADATA\6890D\DATA\011018\GA326.D	01/10/2018 08:52
03	RC1800011-03	ar1660ml	I:\ACQUADATA\6890D\DATA\011018\GA327.D	01/10/2018 09:11
04	RC1800011-04	ar1660m	I:\ACQUADATA\6890D\DATA\011018\GA328.D	01/10/2018 09:31
05	RC1800011-05	ar1660h	I:\ACQUADATA\6890D\DATA\011018\GA329.D	01/10/2018 09:51
06	RC1800011-06	ar1660mh	I:\ACQUADATA\6890D\DATA\011018\GA330.D	01/10/2018 10:11
07	RC1800011-07	ar1221/1254 l	I:\ACQUADATA\6890D\DATA\011018\GA331.D	01/10/2018 10:30
08	RC1800011-08	ar1221/1254 ml	I:\ACQUADATA\6890D\DATA\011018\GA332.D	01/10/2018 10:50
09	RC1800011-09	ar1221/1254 m	I:\ACQUADATA\6890D\DATA\011018\GA333.D	01/10/2018 11:09
10	RC1800011-10	ar1221/1254 mh	I:\ACQUADATA\6890D\DATA\011018\GA334.D	01/10/2018 11:29
11	RC1800011-11	ar1221/1254 h	I:\ACQUADATA\6890D\DATA\011018\GA335.D	01/10/2018 11:50
12	RC1800011-12	ar1232 l	I:\ACQUADATA\6890D\DATA\011018\GA336.D	01/10/2018 12:09
13	RC1800011-13	ar1232 ml	I:\ACQUADATA\6890D\DATA\011018\GA337.D	01/10/2018 12:29
14	RC1800011-14	ar1232 m	I:\ACQUADATA\6890D\DATA\011018\GA338.D	01/10/2018 12:49
15	RC1800011-15	ar1232 mh	I:\ACQUADATA\6890D\DATA\011018\GA339.D	01/10/2018 13:08
16	RC1800011-16	ar1232 h	I:\ACQUADATA\6890D\DATA\011018\GA340.D	01/10/2018 13:28
17	RC1800011-17	ar1242/68 l	I:\ACQUADATA\6890D\DATA\011018\GA341.D	01/10/2018 13:47
18	RC1800011-18	ar1242/68 ml	I:\ACQUADATA\6890D\DATA\011018\GA342.D	01/10/2018 14:07
19	RC1800011-19	ar1242/68 m	I:\ACQUADATA\6890D\DATA\011018\GA343.D	01/10/2018 14:27
20	RC1800011-20	ar1242/68 mh	I:\ACQUADATA\6890D\DATA\011018\GA344.D	01/10/2018 14:46
21	RC1800011-21	ar1242/68 h	I:\ACQUADATA\6890D\DATA\011018\GA345.D	01/10/2018 15:06
22	RC1800011-22	ar1248 l	I:\ACQUADATA\6890D\DATA\011018\GA346.D	01/10/2018 15:26
23	RC1800011-23	ar1248 ml	I:\ACQUADATA\6890D\DATA\011018\GA347.D	01/10/2018 15:45
24	RC1800011-24	ar1248 m	I:\ACQUADATA\6890D\DATA\011018\GA348.D	01/10/2018 16:05
25	RC1800011-25	ar1248 mh	I:\ACQUADATA\6890D\DATA\011018\GA349.D	01/10/2018 16:24
26	RC1800011-26	ar1248 h	I:\ACQUADATA\6890D\DATA\011018\GA350.D	01/10/2018 16:44
27	RC1800011-27	ar1262 m	I:\ACQUADATA\6890D\DATA\011018\GA351.D	01/10/2018 17:04

**Analyte**

**Aroclor 1016 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	3.693E5	02	100.000	3.84E5	03	250.000	3.323E5	04	500.000	3.196E5
06	750.000	2.766E5	05	1000.000	2.925E5						

**Aroclor 1016 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	9.224E5	02	100.000	8.665E5	03	250.000	7.504E5	04	500.000	7.299E5
06	750.000	6.259E5	05	1000.000	6.673E5						



**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

**Analyte**

**Aroclor 1016 {3}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	5.072E5	02	100.000	4.985E5	03	250.000	5.279E5	04	500.000	4.459E5
06	750.000	4.548E5	05	1000.000	4.158E5						

**Aroclor 1016 {4}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	3.768E5	02	100.000	3.696E5	03	250.000	3.189E5	04	500.000	3.127E5
06	750.000	2.707E5	05	1000.000	2.903E5						

**Aroclor 1016 {5}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	6.366E5	02	100.000	6.169E5	03	250.000	5.388E5	04	500.000	5.394E5
06	750.000	4.673E5	05	1000.000	5.057E5						

**Aroclor 1221 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	1.591E5	08	250.000	1.501E5	09	500.000	1.437E5	10	750.000	1.409E5
11	1000.000	1.337E5									

**Aroclor 1221 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	2.297E5	08	250.000	2.186E5	09	500.000	2.173E5	10	750.000	2.179E5
11	1000.000	2.116E5									

**Aroclor 1221 {3}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	1.479E5	08	250.000	1.417E5	09	500.000	1.401E5	10	750.000	1.405E5
11	1000.000	1.343E5									

**Aroclor 1221 {4}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	4.6E5	08	250.000	4.37E5	09	500.000	4.345E5	10	750.000	4.364E5
11	1000.000	4.169E5									

**Aroclor 1221 {5}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	8.336E4	08	250.000	7.938E4	09	500.000	8.349E4	10	750.000	8.237E4
11	1000.000	7.792E4									

**Aroclor 1232 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	1.351E5	13	250.000	1.21E5	14	500.000	1.234E5	15	750.000	1.143E5
16	1000.000	1.086E5									

**Aroclor 1232 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	4.756E5	13	250.000	4.162E5	14	500.000	4.264E5	15	750.000	3.958E5
16	1000.000	3.816E5									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte

Aroclor 1232 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	4.745E5	13	250.000	4.172E5	14	500.000	4.264E5	15	750.000	3.986E5
16	1000.000	3.834E5									

Aroclor 1232 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	2.547E5	13	250.000	2.262E5	14	500.000	2.3E5	15	750.000	2.157E5
16	1000.000	2.09E5									

Aroclor 1232 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	3.078E5	13	250.000	2.762E5	14	500.000	2.833E5	15	750.000	2.673E5
16	1000.000	2.594E5									

Aroclor 1242 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	2.852E5	18	250.000	2.779E5	19	500.000	2.74E5	20	750.000	2.626E5
21	1000.000	2.611E5									

Aroclor 1242 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	6.331E5	18	250.000	6.282E5	19	500.000	6.072E5	20	750.000	5.853E5
21	1000.000	5.901E5									

Aroclor 1242 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	4.643E5	18	250.000	4.696E5	19	500.000	4.623E5	20	750.000	4.472E5
21	1000.000	4.595E5									

Aroclor 1242 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	5.011E5	18	250.000	5.061E5	19	500.000	4.965E5	20	750.000	4.788E5
21	1000.000	4.915E5									

Aroclor 1242 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	4.095E5	18	250.000	4.198E5	19	500.000	4.204E5	20	750.000	4.051E5
21	1000.000	4.215E5									

Aroclor 1248 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	3.592E5	23	250.000	3.25E5	24	500.000	3.176E5	25	750.000	3.146E5
26	1000.000	3.081E5									

Aroclor 1248 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	6.987E5	23	250.000	6.343E5	24	500.000	6.285E5	25	750.000	6.285E5
26	1000.000	6.18E5									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte

Aroclor 1248 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	4.268E5	23	250.000	3.853E5	24	500.000	3.811E5	25	750.000	3.799E5
26	1000.000	3.73E5									

Aroclor 1248 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	7.126E5	23	250.000	6.486E5	24	500.000	6.467E5	25	750.000	6.48E5
26	1000.000	6.382E5									

Aroclor 1248 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	4.361E5	23	250.000	4.03E5	24	500.000	4.048E5	25	750.000	4.051E5
26	1000.000	4.016E5									

Aroclor 1254 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	9.026E5	08	250.000	7.708E5	09	500.000	8.115E5	10	750.000	8.035E5
11	1000.000	7.732E5									

Aroclor 1254 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	6.759E5	08	250.000	6.041E5	09	500.000	6.513E5	10	750.000	6.26E5
11	1000.000	6.086E5									

Aroclor 1254 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	1.004E6	08	250.000	8.614E5	09	500.000	9.251E5	10	750.000	9.197E5
11	1000.000	8.849E5									

Aroclor 1254 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	1.048E6	08	250.000	9.132E5	09	500.000	1.002E6	10	750.000	9.953E5
11	1000.000	9.631E5									

Aroclor 1254 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	5.137E5	08	250.000	4.5E5	09	500.000	4.912E5	10	750.000	4.893E5
11	1000.000	4.754E5									

Aroclor 1260 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.441E6	02	100.000	1.346E6	03	250.000	1.16E6	04	500.000	1.145E6
06	750.000	9.92E5	05	1000.000	1.072E6						

Aroclor 1260 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	8.406E5	02	100.000	7.954E5	03	250.000	7.085E5	04	500.000	7.165E5
06	750.000	6.266E5	05	1000.000	6.775E5						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte

Aroclor 1260 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.969E6	02	100.000	1.866E6	03	250.000	1.69E6	04	500.000	1.722E6
06	750.000	1.517E6	05	1000.000	1.656E6						

Aroclor 1260 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.09E6	02	100.000	1.062E6	03	250.000	9.507E5	04	500.000	9.518E5
06	750.000	8.388E5	05	1000.000	9.221E5						

Aroclor 1260 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	6.853E5	02	100.000	6.54E5	03	250.000	6.018E5	04	500.000	5.935E5
06	750.000	5.282E5	05	1000.000	5.839E5						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.981E7	02	20.000	1.694E7	03	40.000	1.614E7	04	60.000	1.567E7
06	80.000	1.421E7	05	100.000	1.573E7						

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.029E7	02	20.000	1.973E7	03	40.000	1.908E7	04	60.000	1.922E7
06	80.000	1.688E7	05	100.000	1.855E7						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1016 {1}	MULTI	Average RF	% RSD	12.8	20	3.29E5	
Aroclor 1016 {2}	MULTI	Average RF	% RSD	15.0	20	7.604E5	
Aroclor 1016 {3}	MULTI	Average RF	% RSD	9.0	20	4.75E5	
Aroclor 1016 {4}	MULTI	Average RF	% RSD	13.1	20	3.232E5	
Aroclor 1016 {5}	MULTI	Average RF	% RSD	11.8	20	5.508E5	
Aroclor 1221 {1}	MULTI	Average RF	% RSD	6.6	20	1.455E5	
Aroclor 1221 {2}	MULTI	Average RF	% RSD	3.0	20	2.19E5	
Aroclor 1221 {3}	MULTI	Average RF	% RSD	3.4	20	1.409E5	
Aroclor 1221 {4}	MULTI	Average RF	% RSD	3.5	20	4.37E5	
Aroclor 1221 {5}	MULTI	Average RF	% RSD	3.1	20	8.131E4	
Aroclor 1232 {1}	MULTI	Average RF	% RSD	8.3	20	1.205E5	
Aroclor 1232 {2}	MULTI	Average RF	% RSD	8.6	20	4.191E5	
Aroclor 1232 {3}	MULTI	Average RF	% RSD	8.3	20	4.2E5	
Aroclor 1232 {4}	MULTI	Average RF	% RSD	7.7	20	2.271E5	
Aroclor 1232 {5}	MULTI	Average RF	% RSD	6.7	20	2.788E5	
Aroclor 1242 {1}	MULTI	Average RF	% RSD	3.8	20	2.722E5	
Aroclor 1242 {2}	MULTI	Average RF	% RSD	3.6	20	6.088E5	
Aroclor 1242 {3}	MULTI	Average RF	% RSD	1.8	20	4.606E5	
Aroclor 1242 {4}	MULTI	Average RF	% RSD	2.1	20	4.948E5	
Aroclor 1242 {5}	MULTI	Average RF	% RSD	1.8	20	4.153E5	
Aroclor 1248 {1}	MULTI	Average RF	% RSD	6.2	20	3.249E5	
Aroclor 1248 {2}	MULTI	Average RF	% RSD	5.1	20	6.416E5	
Aroclor 1248 {3}	MULTI	Average RF	% RSD	5.5	20	3.892E5	
Aroclor 1248 {4}	MULTI	Average RF	% RSD	4.6	20	6.588E5	
Aroclor 1248 {5}	MULTI	Average RF	% RSD	3.6	20	4.101E5	
Aroclor 1254 {1}	MULTI	Average RF	% RSD	6.6	20	8.123E5	
Aroclor 1254 {2}	MULTI	Average RF	% RSD	4.8	20	6.332E5	
Aroclor 1254 {3}	MULTI	Average RF	% RSD	5.9	20	9.19E5	
Aroclor 1254 {4}	MULTI	Average RF	% RSD	5.1	20	9.845E5	
Aroclor 1254 {5}	MULTI	Average RF	% RSD	4.8	20	4.839E5	
Aroclor 1260 {1}	MULTI	Average RF	% RSD	14.2	20	1.193E6	
Aroclor 1260 {2}	MULTI	Average RF	% RSD	10.7	20	7.275E5	
Aroclor 1260 {3}	MULTI	Average RF	% RSD	9.2	20	1.737E6	
Aroclor 1260 {4}	MULTI	Average RF	% RSD	9.6	20	9.692E5	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1260 {5}	MULTI	Average RF	% RSD	9.1	20	6.078E5	
Decachlorobiphenyl	SURR	Average RF	% RSD	11.5	20	1.642E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	6.2	20	1.896E7	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1800011-01	ar1660l	I:\ACQUADATA\6890D\DATA\011018\GA325.D	01/10/2018 08:32
02	RC1800011-02	ar1660l	I:\ACQUADATA\6890D\DATA\011018\GA326.D	01/10/2018 08:52
03	RC1800011-03	ar1660ml	I:\ACQUADATA\6890D\DATA\011018\GA327.D	01/10/2018 09:11
04	RC1800011-04	ar1660m	I:\ACQUADATA\6890D\DATA\011018\GA328.D	01/10/2018 09:31
05	RC1800011-05	ar1660h	I:\ACQUADATA\6890D\DATA\011018\GA329.D	01/10/2018 09:51
06	RC1800011-06	ar1660mh	I:\ACQUADATA\6890D\DATA\011018\GA330.D	01/10/2018 10:11
07	RC1800011-07	ar1221/1254 l	I:\ACQUADATA\6890D\DATA\011018\GA331.D	01/10/2018 10:30
08	RC1800011-08	ar1221/1254 ml	I:\ACQUADATA\6890D\DATA\011018\GA332.D	01/10/2018 10:50
09	RC1800011-09	ar1221/1254 m	I:\ACQUADATA\6890D\DATA\011018\GA333.D	01/10/2018 11:09
10	RC1800011-10	ar1221/1254 mh	I:\ACQUADATA\6890D\DATA\011018\GA334.D	01/10/2018 11:29
11	RC1800011-11	ar1221/1254 h	I:\ACQUADATA\6890D\DATA\011018\GA335.D	01/10/2018 11:50
12	RC1800011-12	ar1232 l	I:\ACQUADATA\6890D\DATA\011018\GA336.D	01/10/2018 12:09
13	RC1800011-13	ar1232 ml	I:\ACQUADATA\6890D\DATA\011018\GA337.D	01/10/2018 12:29
14	RC1800011-14	ar1232 m	I:\ACQUADATA\6890D\DATA\011018\GA338.D	01/10/2018 12:49
15	RC1800011-15	ar1232 mh	I:\ACQUADATA\6890D\DATA\011018\GA339.D	01/10/2018 13:08
16	RC1800011-16	ar1232 h	I:\ACQUADATA\6890D\DATA\011018\GA340.D	01/10/2018 13:28
17	RC1800011-17	ar1242/68 l	I:\ACQUADATA\6890D\DATA\011018\GA341.D	01/10/2018 13:47
18	RC1800011-18	ar1242/68 ml	I:\ACQUADATA\6890D\DATA\011018\GA342.D	01/10/2018 14:07
19	RC1800011-19	ar1242/68 m	I:\ACQUADATA\6890D\DATA\011018\GA343.D	01/10/2018 14:27
20	RC1800011-20	ar1242/68 mh	I:\ACQUADATA\6890D\DATA\011018\GA344.D	01/10/2018 14:46
21	RC1800011-21	ar1242/68 h	I:\ACQUADATA\6890D\DATA\011018\GA345.D	01/10/2018 15:06
22	RC1800011-22	ar1248 l	I:\ACQUADATA\6890D\DATA\011018\GA346.D	01/10/2018 15:26
23	RC1800011-23	ar1248 ml	I:\ACQUADATA\6890D\DATA\011018\GA347.D	01/10/2018 15:45
24	RC1800011-24	ar1248 m	I:\ACQUADATA\6890D\DATA\011018\GA348.D	01/10/2018 16:05
25	RC1800011-25	ar1248 mh	I:\ACQUADATA\6890D\DATA\011018\GA349.D	01/10/2018 16:24
26	RC1800011-26	ar1248 h	I:\ACQUADATA\6890D\DATA\011018\GA350.D	01/10/2018 16:44
27	RC1800011-27	ar1262 m	I:\ACQUADATA\6890D\DATA\011018\GA351.D	01/10/2018 17:04

**Analyte**

**Aroclor 1016 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	4.695E5	02	100.000	5.427E5	03	250.000	4.821E5	04	500.000	4.909E5
06	750.000	4.246E5	05	1000.000	4.413E5						

**Aroclor 1016 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.138E6	02	100.000	1.102E6	03	250.000	9.636E5	04	500.000	9.451E5
06	750.000	8.157E5	05	1000.000	8.702E5						

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1016 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	2.791E5	02	100.000	3.035E5	03	250.000	2.724E5	04	500.000	2.781E5
06	750.000	2.426E5	05	1000.000	2.645E5						

Aroclor 1016 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	4.471E5	02	100.000	4.667E5	03	250.000	4.133E5	04	500.000	4.092E5
06	750.000	3.534E5	05	1000.000	3.795E5						

Aroclor 1016 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.073E6	02	100.000	9.25E5	03	250.000	9.075E5	04	500.000	9.006E5
06	750.000	7.728E5	05	1000.000	8.327E5						

Aroclor 1221 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	2.098E5	08	250.000	1.962E5	09	500.000	1.981E5	10	750.000	1.956E5
11	1000.000	1.876E5									

Aroclor 1221 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	2.833E5	08	250.000	2.851E5	09	500.000	2.866E5	10	750.000	2.922E5
11	1000.000	2.827E5									

Aroclor 1221 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	1.555E5	08	250.000	1.568E5	09	500.000	1.615E5	10	750.000	1.655E5
11	1000.000	1.611E5									

Aroclor 1221 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	7.289E5	08	250.000	7.253E5	09	500.000	7.289E5	10	750.000	7.335E5
11	1000.000	7.039E5									

Aroclor 1221 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	9.478E4	08	250.000	9.626E4	09	500.000	1.022E5	10	750.000	9.91E4
11	1000.000	9.731E4									

Aroclor 1232 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	7.266E5	13	250.000	6.768E5	14	500.000	6.962E5	15	750.000	6.47E5
16	1000.000	6.239E5									

Aroclor 1232 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	5.616E5	13	250.000	5.002E5	14	500.000	5.207E5	15	750.000	4.889E5
16	1000.000	4.73E5									



ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1232 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	1.092E6	13	250.000	9.859E5	14	500.000	1.039E6	15	750.000	9.864E5
16	1000.000	9.615E5									

Aroclor 1232 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	5.389E5	13	250.000	4.704E5	14	500.000	4.832E5	15	750.000	4.508E5
16	1000.000	4.339E5									

Aroclor 1232 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	4.343E5	13	250.000	3.93E5	14	500.000	4.108E5	15	750.000	3.87E5
16	1000.000	3.757E5									

Aroclor 1242 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	3.8E5	18	250.000	4.062E5	19	500.000	4.123E5	20	750.000	4.019E5
21	1000.000	4.049E5									

Aroclor 1242 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	3.366E5	18	250.000	3.452E5	19	500.000	3.401E5	20	750.000	3.318E5
21	1000.000	3.352E5									

Aroclor 1242 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	1.561E6	18	250.000	1.618E6	19	500.000	1.62E6	20	750.000	1.59E6
21	1000.000	1.636E6									

Aroclor 1242 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	7.143E5	18	250.000	7.266E5	19	500.000	7.194E5	20	750.000	7.111E5
21	1000.000	7.262E5									

Aroclor 1242 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	6.5E5	18	250.000	6.707E5	19	500.000	6.757E5	20	750.000	6.721E5
21	1000.000	6.936E5									

Aroclor 1248 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	4.58E5	23	250.000	4.221E5	24	500.000	4.165E5	25	750.000	4.17E5
26	1000.000	4.102E5									

Aroclor 1248 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	1.097E6	23	250.000	1.015E6	24	500.000	1.025E6	25	750.000	1.046E6
26	1000.000	1.04E6									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1248 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	3.982E5	23	250.000	3.617E5	24	500.000	3.569E5	25	750.000	3.594E5
26	1000.000	3.552E5									

Aroclor 1248 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	1.195E6	23	250.000	1.097E6	24	500.000	1.099E6	25	750.000	1.111E6
26	1000.000	1.098E6									

Aroclor 1248 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	9.811E5	23	250.000	9.135E5	24	500.000	9.281E5	25	750.000	9.447E5
26	1000.000	9.38E5									

Aroclor 1254 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	5.13E5	08	250.000	4.688E5	09	500.000	5.022E5	10	750.000	4.926E5
11	1000.000	4.771E5									

Aroclor 1254 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	8.013E5	08	250.000	7.174E5	09	500.000	7.761E5	10	750.000	7.702E5
11	1000.000	7.522E5									

Aroclor 1254 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	1.823E6	08	250.000	1.544E6	09	500.000	1.661E6	10	750.000	1.645E6
11	1000.000	1.596E6									

Aroclor 1254 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	9.397E5	08	250.000	8.364E5	09	500.000	8.853E5	10	750.000	8.675E5
11	1000.000	8.395E5									

Aroclor 1254 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	4.401E5	08	250.000	4.045E5	09	500.000	4.434E5	10	750.000	4.3E5
11	1000.000	4.183E5									

Aroclor 1260 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.503E6	02	100.000	1.46E6	03	250.000	1.252E6	04	500.000	1.229E6
06	750.000	1.065E6	05	1000.000	1.159E6						

Aroclor 1260 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.934E6	02	100.000	1.815E6	03	250.000	1.533E6	04	500.000	1.497E6
06	750.000	1.3E6	05	1000.000	1.416E6						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801334  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1260 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.213E6	02	100.000	1.25E6	03	250.000	1.1E6	04	500.000	1.095E6
06	750.000	9.57E5	05	1000.000	1.054E6						

Aroclor 1260 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	2.292E6	02	100.000	2.24E6	03	250.000	2.024E6	04	500.000	2.059E6
06	750.000	1.815E6	05	1000.000	2.01E6						

Aroclor 1260 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	5.445E5	02	100.000	5.412E5	03	250.000	5.002E5	04	500.000	5.007E5
06	750.000	4.444E5	05	1000.000	4.921E5						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.378E7	02	20.000	2.114E7	03	40.000	2.011E7	04	60.000	1.962E7
06	80.000	1.776E7	05	100.000	1.968E7						

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.617E7	02	20.000	2.616E7	03	40.000	2.538E7	04	60.000	2.577E7
06	80.000	2.277E7	05	100.000	2.497E7						

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1016 {1}	MULTI	Average RF	% RSD	8.7	20	4.752E5	
Aroclor 1016 {2}	MULTI	Average RF	% RSD	13.0	20	9.725E5	
Aroclor 1016 {3}	MULTI	Average RF	% RSD	7.3	20	2.734E5	
Aroclor 1016 {4}	MULTI	Average RF	% RSD	10.2	20	4.115E5	
Aroclor 1016 {5}	MULTI	Average RF	% RSD	11.2	20	9.02E5	
Aroclor 1221 {1}	MULTI	Average RF	% RSD	4.1	20	1.975E5	
Aroclor 1221 {2}	MULTI	Average RF	% RSD	1.3	20	2.86E5	
Aroclor 1221 {3}	MULTI	Average RF	% RSD	2.5	20	1.601E5	
Aroclor 1221 {4}	MULTI	Average RF	% RSD	1.6	20	7.241E5	
Aroclor 1221 {5}	MULTI	Average RF	% RSD	2.9	20	9.792E4	
Aroclor 1232 {1}	MULTI	Average RF	% RSD	6.0	20	6.741E5	
Aroclor 1232 {2}	MULTI	Average RF	% RSD	6.7	20	5.089E5	
Aroclor 1232 {3}	MULTI	Average RF	% RSD	5.2	20	1.013E6	
Aroclor 1232 {4}	MULTI	Average RF	% RSD	8.4	20	4.754E5	
Aroclor 1232 {5}	MULTI	Average RF	% RSD	5.7	20	4.002E5	
Aroclor 1242 {1}	MULTI	Average RF	% RSD	3.1	20	4.011E5	
Aroclor 1242 {2}	MULTI	Average RF	% RSD	1.5	20	3.378E5	
Aroclor 1242 {3}	MULTI	Average RF	% RSD	1.9	20	1.605E6	
Aroclor 1242 {4}	MULTI	Average RF	% RSD	1.0	20	7.195E5	
Aroclor 1242 {5}	MULTI	Average RF	% RSD	2.3	20	6.724E5	
Aroclor 1248 {1}	MULTI	Average RF	% RSD	4.5	20	4.248E5	
Aroclor 1248 {2}	MULTI	Average RF	% RSD	3.0	20	1.044E6	
Aroclor 1248 {3}	MULTI	Average RF	% RSD	4.9	20	3.663E5	
Aroclor 1248 {4}	MULTI	Average RF	% RSD	3.8	20	1.12E6	
Aroclor 1248 {5}	MULTI	Average RF	% RSD	2.7	20	9.411E5	
Aroclor 1254 {1}	MULTI	Average RF	% RSD	3.7	20	4.907E5	
Aroclor 1254 {2}	MULTI	Average RF	% RSD	4.1	20	7.635E5	
Aroclor 1254 {3}	MULTI	Average RF	% RSD	6.3	20	1.654E6	
Aroclor 1254 {4}	MULTI	Average RF	% RSD	4.8	20	8.737E5	
Aroclor 1254 {5}	MULTI	Average RF	% RSD	3.8	20	4.273E5	
Aroclor 1260 {1}	MULTI	Average RF	% RSD	13.4	20	1.278E6	
Aroclor 1260 {2}	MULTI	Average RF	% RSD	15.4	20	1.583E6	
Aroclor 1260 {3}	MULTI	Average RF	% RSD	9.6	20	1.112E6	
Aroclor 1260 {4}	MULTI	Average RF	% RSD	8.3	20	2.073E6	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1260 {5}	MULTI	Average RF	% RSD	7.3	20	5.038E5	
Decachlorobiphenyl	SURR	Average RF	% RSD	9.9	20	2.035E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	5.1	20	2.52E7	

**ALS Group USA, Corp.**  
 dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Verification Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

#	Lab Code	Sample Name	File Location	Aquisition Date
28	RC1800011-28	ar1660 icv	I:\ACQDATA\6890D\DATA\011018\GA352.D	01/10/2018 17:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1016	500	516			3.13	±30	NA
Aroclor 1260	500	476			-4.893	±30	NA
Aroclor 1016 {1}	500	505	4.752E5	4.798E5	0.959	±30	Average RF
Aroclor 1016 {2}	500	502	9.725E5	9.77E5	0.465	±30	Average RF
Aroclor 1016 {3}	500	523	2.734E5	2.857E5	4.52	±30	Average RF
Aroclor 1016 {4}	500	521	4.115E5	4.284E5	4.11	±30	Average RF
Aroclor 1016 {5}	500	528	9.02E5	9.524E5	5.59	±30	Average RF
Aroclor 1260 {1}	500	456	1.278E6	1.166E6	-8.749	±30	Average RF
Aroclor 1260 {2}	500	444	1.583E6	1.407E6	-11.108	±30	Average RF
Aroclor 1260 {3}	500	474	1.112E6	1.054E6	-5.177	±30	Average RF
Aroclor 1260 {4}	500	488	2.073E6	2.024E6	-2.398	±30	Average RF
Aroclor 1260 {5}	500	515	5.038E5	5.188E5	2.97	±30	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801334  
**Calibration Date:** 1/10/2018

**Initial Calibration Verification Summary  
Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

#	Lab Code	Sample Name	File Location	Aquisition Date
28	RC1800011-28	ar1660 icv	I:\ACQDATA\6890D\DATA\011018\GA352.D	01/10/2018 17:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1016	500	486			-2.823	±30	NA
Aroclor 1260	500	480			-4.022	±30	NA
Aroclor 1016 {1}	500	476	3.29E5	3.132E5	-4.814	±30	Average RF
Aroclor 1016 {2}	500	496	7.604E5	7.546E5	-0.758	±30	Average RF
Aroclor 1016 {3}	500	483	4.75E5	4.59E5	-3.360	±30	Average RF
Aroclor 1016 {4}	500	508	3.232E5	3.285E5	1.65	±30	Average RF
Aroclor 1016 {5}	500	466	5.508E5	5.131E5	-6.838	±30	Average RF
Aroclor 1260 {1}	500	448	1.193E6	1.069E6	-10.337	±30	Average RF
Aroclor 1260 {2}	500	488	7.275E5	7.098E5	-2.442	±30	Average RF
Aroclor 1260 {3}	500	486	1.737E6	1.688E6	-2.824	±30	Average RF
Aroclor 1260 {4}	500	475	9.692E5	9.21E5	-4.983	±30	Average RF
Aroclor 1260 {5}	500	502	6.078E5	6.107E5	0.477	±30	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 13:26

**Continuing Calibration Verification (CCV) Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUDATA\6890D\DATA\022118\GA821.D\

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581202  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016	500	449	NA	NA	NA	NA	±20	
Aroclor 1260	500	435	NA	NA	NA	NA	±20	
Aroclor 1016 {2}	500	444	9.725E5	8.64E5	-11.2	NA	±20	Average RF
Aroclor 1016 {4}	500	444	4.115E5	3.654E5	-11.2	NA	±20	Average RF
Aroclor 1260 {1}	500	430	1.278E6	1.099E6	-14.0	NA	±20	Average RF
Aroclor 1260 {2}	500	429	1.583E6	1.357E6	-14.3	NA	±20	Average RF
Aroclor 1260 {3}	500	438	1.112E6	9.74E5	-12.4	NA	±20	Average RF
Aroclor 1260 {4}	500	440	2.073E6	1.825E6	-12.0	NA	±20	Average RF
Aroclor 1260 {5}	500	436	5.038E5	4.397E5	-12.7	NA	±20	Average RF
Decachlorobiphenyl	60.0	51.7	2.035E7	1.754E7	-13.8	NA	±20	Average RF
Tetrachloro-m-xylene	60.0	56.2	2.52E7	2.361E7	-6.3	NA	±20	Average RF



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 13:26

**Continuing Calibration Verification (CCV) Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUADATA\6890D\DATA\022118\GA821.D\

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581202  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016 {1}	500	448	3.29E5	2.945E5	-10.5	NA	±20	Average RF
Aroclor 1016 {3}	500	444	4.75E5	4.215E5	-11.3	NA	±20	Average RF
Aroclor 1016 {5}	500	444	5.508E5	4.892E5	-11.2	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 17:02

**Continuing Calibration Verification (CCV) Summary  
Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUADATA\6890D\DATA\022118\GA830.D\

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581202  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016	500	481	NA	NA	NA	NA	±20	
Aroclor 1260	500	468	NA	NA	NA	NA	±20	
Aroclor 1016 {2}	500	468	9.725E5	9.111E5	-6.3	NA	±20	Average RF
Aroclor 1260 {1}	500	453	1.278E6	1.157E6	-9.5	NA	±20	Average RF
Aroclor 1260 {2}	500	451	1.583E6	1.427E6	-9.9	NA	±20	Average RF
Aroclor 1260 {3}	500	472	1.112E6	1.049E6	-5.6	NA	±20	Average RF
Decachlorobiphenyl	60.0	56.8	2.035E7	1.927E7	-5.3	NA	±20	Average RF
Tetrachloro-m-xylene	60.0	59.4	2.52E7	2.496E7	-1.0	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801334  
**Date Analyzed:** 02/21/18 17:02

**Continuing Calibration Verification (CCV) Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUDATA\6890D\DATA\022118\GA830.D\

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581202  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016 {1}	500	471	3.29E5	3.098E5	-5.9	NA	±20	Average RF
Aroclor 1016 {3}	500	446	4.75E5	4.236E5	-10.8	NA	±20	Average RF
Aroclor 1016 {4}	500	467	3.232E5	3.018E5	-6.6	NA	±20	Average RF
Aroclor 1016 {5}	500	464	5.508E5	5.115E5	-7.1	NA	±20	Average RF
Aroclor 1260 {4}	500	479	9.692E5	9.287E5	-4.2	NA	±20	Average RF
Aroclor 1260 {5}	500	486	6.078E5	5.906E5	-2.8	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801334

**Analysis Run Log**  
**Polychlorinated Biphenyls (PCBs) by GC**

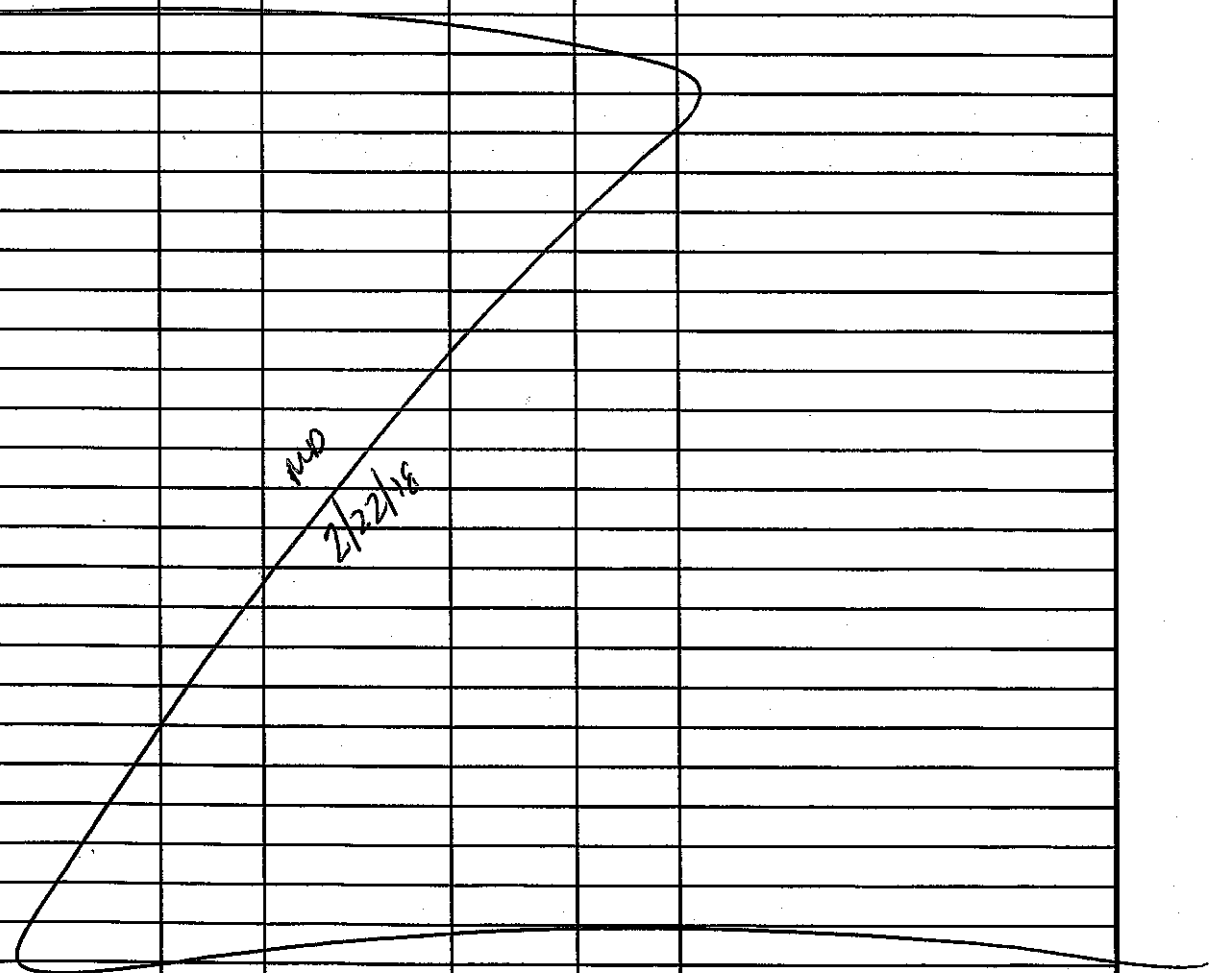
**Analysis Method:** 8082A

**Analysis Lot:**581202  
**Instrument ID:**R-GC-54

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\6890D\DATA\022118\GA821.D\	Continuing Calibration Verification	RQ1801605-01	2/21/2018	13:26:00	
I:\ACQUDATA\6890D\DATA\022118\GA822.D\	Method Blank	RQ1801494-01	2/21/2018	14:25:00	
I:\ACQUDATA\6890D\DATA\022118\GA823.D\	Lab Control Sample	RQ1801494-02	2/21/2018	14:45:00	
I:\ACQUDATA\6890D\DATA\022118\GA824.D\	Duplicate Lab Control Sample	RQ1801494-03	2/21/2018	15:04:00	
I:\ACQUDATA\6890D\DATA\022118\GA825.D\	TB-14 (7.0)	R1801334-007	2/21/2018	15:24:00	
I:\ACQUDATA\6890D\DATA\022118\GA826.D\	ZZZZZZZ	ZZZZZZZ	2/21/2018	15:43:00	
I:\ACQUDATA\6890D\DATA\022118\GA827.D\	ZZZZZZZ	ZZZZZZZ	2/21/2018	16:03:00	
I:\ACQUDATA\6890D\DATA\022118\GA828.D\	ZZZZZZZ	ZZZZZZZ	2/21/2018	16:23:00	
I:\ACQUDATA\6890D\DATA\022118\GA829.D\	ZZZZZZZ	ZZZZZZZ	2/21/2018	16:42:00	
I:\ACQUDATA\6890D\DATA\022118\GA830.D\	Continuing Calibration Verification	RQ1801605-02	2/21/2018	17:02:00	

Analysis: 8082 Analyst: W. Brown Run Method: B082A  
 Date: 2/2/18 Instr. 6890D R-GC-54 Quant Method: PCB011018  
 Syringes: \_\_\_\_\_ LIMS Run#: 581202

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BK			GA818	Y	
	↓			819	Y	
	CWS6		185173	820	YCC	
	R01801494-01		(308592)5	821	Y	
	↓ 02			822	Y	
	↓ 03			823	Y	
	R1801334-007			824	Y	
	R1801381-004			825	Y	
	↓ 014			826	Y	
	R01801494-04			827	Y	
	↓ 05			828	Y	
	CWS7		185173	829	YCC	



MD  
 2/22/18

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Analysis: 6081082  
 Date: 1/10/18  
 Syringes: \_\_\_\_\_

Analyst: ATRELO  
 Instr. 6890D R-GC-54  
 LIMS Run#: \_\_\_\_\_

Run Method: \_\_\_\_\_  
 Quant Method: PC3011018.m

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BK			GA323		
	↓			324		
	AR1100LL		186545	325	Y	
	↓ L		186543	326	Y	
	↓ ml		186542	327	Y	
	↓ m		185173	328	Y	
	↓ MH		180541	329	Y	
	↓ H		186540	330	Y	
	AR1221/1234 L		186546	331	Y	
	↓ ML		187094	332	Y	
	↓ m		186547	333	Y	
	↓ MH		187055	334	Y	
	↓ H		186548	335	Y	
	AR1232 L		186549	336	Y	
	↓ ml		187057	337	Y	
	↓ m		186550	338	Y	
	↓ MH		187058	339	Y	
	↓ H		186551	340	Y	
	AR1242/1268 L		187061	341	Y	
	↓ ml		187059	342	Y	
	↓ m		187063	343	Y	
	↓ MH		187064	344	Y	
	↓ H		187065	345	Y	
	AR1248 L		187067	346	Y	
	↓ ml		187068	347	Y	
	↓ m		187069	348	Y	
	↓ MH		187070	349	Y	
	↓ H		187071	350	Y	
	AR1242 M		187072	351	Y	
	AR1100 Inv		187087	352	Y	

RC 1800011

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Runlog GCEXT r2 4/27/17

O-975 Page 72

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Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1801334

**Polychlorinated Biphenyls (PCBs) by GC**

**Prep Method:** EPA 3541  
**Analytical Method:** 8082A

**Extraction Lot:**308592

<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Collected</b>	<b>Date Received</b>	<b>Sample Amount</b>	<b>Final Amount</b>	<b>Percent Solids</b>
TB-14 (7.0)	R1801334-007	2/13/18	2/14/18	30.1600 g	10 mL	78.0
Method Blank	RQ1801494-01MB	NA	NA	30.0 g	10 mL	
Lab Control Sample	RQ1801494-02LCS	NA	NA	30.0 g	10 mL	
Duplicate Lab Control Sample	RQ1801494-03DLCS	NA	NA	30.0 g	10 mL	

# Preparation Information Benchsheet

Prep Run#: 308592  
 Team: Semivoca GC/DMURPHY

Prep WorkFlow: OrgExtS(14)  
 Prep Method: EPA 3541

Status: Prepped  
 Prep Date/Time: 2/20/18 07:59 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801494-01	MB		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/187936	
2	RQ1801494-02	LCS		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/187936, 1.0000 mL/186813	
3	RQ1801494-03	D LCS		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/187936, 1.0000 mL/186813	
4	R1801334-007	TB-14 (7-0)	.02	30.1600g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936	
5	R1801384-004	TB-2 (3-4)	.01	30.3600g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936	
6	R1801384-014	TB-9 (13-14)	.01	30.1400g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936	
7	RQ1801494-04	R1801384-014 MS	.01	30.1500g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/186813, 1.0000 mL/187936	
8	RQ1801494-05	R1801384-014 DMS	.01	30.3600g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936, 1.0000 mL/186813	

### Spiking Solutions

Name: 8082 Spike 5 ug/mL AR 1260 Inventory ID 186813 Logbook Ref: Expires On: 07/01/2018  
 Name: 8081/8082 Surrogate Spike STD 1 ug/mL Inventory ID 187936 Logbook Ref: Expires On: 08/08/2018

### Preparation Materials

50:50 acetone:hexane mix (188019)  
 Prepared Sodium Sulfate (188011)  
 Na2SO4  
 Sand Reagent Grade (187622)  
 Boiling Stones PTFE (184384)  
 Tetrabutylammonium Hydrogen Sulfate (TBA) (178388)  
 Sulfuric Acid Reagent Grade H2SO4 (186036)

### Preparation Steps


Step: Extraction  
 Started: 2/20/18 07:59  
 Finished: 2/20/18 12:36  
 By: DMURPHY  
 Comments: Extraction Complete

Step: Concentration  
 Started: 2/21/18 12:38  
 Finished: 2/21/18 12:38  
 By: DMURPHY  
 Comments: Extraction Complete

Step: Acid Clean-EPA 3665A  
 Started: 2/21/18 12:38  
 Finished: 2/21/18 12:38  
 By: DMURPHY  
 Comments: Extraction Complete

Step: Sulfur Clean-EPA 3660B  
 Started: 2/21/18 12:38  
 Finished: 2/21/18 12:38  
 By: DMURPHY  
 Comments: Extraction Complete

Comments:

Reviewed By:  Date: 2/21/18 Spike Witness: MPEDRO Date: \_\_\_\_\_

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined
Received By: _____	Date: _____	Yes No





## Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TB-01 (3.0)  
Project No.: R1801334      Date Collected: 2/12/2018  
Project Name:      Date Received: 2/14/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TB-01 (3.0)      Lab Code: R1801334-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.347	1.0	6.5		
Barium	6010C	2.4	0.087	1.0	73.4		
Cadmium	6010C	0.598	0.020	1.0	0.909		
Mercury	7471B	0.038	0.011	1.0	0.351		
Chromium	6010C	1.2	0.109	1.0	11.7		
Lead	6010C	6.0	0.232	1.0	117		
Selenium	6010C	1.2	0.451	1.0	1.7		
Silver	6010C	1.2	0.079	1.0	0.454	J	

% Solids: 82.8

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TB-01 (3.0)  
Project No.: R1801334      Date Collected: 2/12/2018  
Project Name:      Date Received: 2/14/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TB-02 (8.0)      Lab Code: R1801334-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.5	0.432	1.0	9.1		
Barium	6010C	3.0	0.109	1.0	115		
Cadmium	6010C	0.745	0.025	1.0	0.358	J	
Mercury	7471B	0.261	0.074	5.0	4.3		
Chromium	6010C	1.5	0.136	1.0	11.0		
Lead	6010C	7.5	0.289	1.0	379		
Selenium	6010C	1.5	0.562	1.0	3.2		
Silver	6010C	1.5	0.098	1.0	0.894	J	

% Solids: 63.9

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TB-01 (3.0)  
Project No.: R1801334      Date Collected: 2/12/2018  
Project Name:      Date Received: 2/14/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TB-04 (2.5)      Lab Code: R1801334-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.317	1.0	9.9		
Barium	6010C	2.2	0.080	1.0	44.2		
Cadmium	6010C	0.546	0.018	1.0	1.1		
Mercury	7471B	0.037	0.010	1.0	0.088		
Chromium	6010C	1.1	0.100	1.0	9.0		
Lead	6010C	5.5	0.212	1.0	161		
Selenium	6010C	1.1	0.412	1.0	0.776	J	
Silver	6010C	1.1	0.072	1.0	0.076	J	

% Solids: 90.6

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TB-01 (3.0)  
Project No.: R1801334      Date Collected: 2/13/2018  
Project Name:      Date Received: 2/14/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TB-14 (7.0)      Lab Code: R1801334-007

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.357	1.0	3.8		
Barium	6010C	2.5	0.090	1.0	50.2		
Cadmium	6010C	0.616	0.021	1.0	0.826		
Mercury	7471B	0.040	0.011	1.0	0.071		
Chromium	6010C	1.2	0.112	1.0	10.4		
Lead	6010C	6.2	0.239	1.0	24.5		
Selenium	6010C	1.2	0.465	1.0	0.764	J	
Silver	6010C	1.2	0.081	1.0	1.2	U	

% Solids: 78.0

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TB-01 (3.0)  
**Project No.:** R1801334      **Date Collected:** 2/13/2018  
**Project Name:**      **Date Received:** 2/14/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TB-24 (2.5)      **Lab Code:** R1801334-014

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.324	1.0	5.8		
Barium	6010C	2.2	0.081	1.0	24.4		
Cadmium	6010C	0.558	0.019	1.0	1.4		
Mercury	7471B	0.036	0.010	1.0	0.024	J	
Chromium	6010C	1.1	0.102	1.0	14.0		
Lead	6010C	5.6	0.217	1.0	45.6		
Selenium	6010C	1.1	0.421	1.0	0.815	J	
Silver	6010C	1.1	0.074	1.0	1.1	U	

% Solids: 88.7

Comments:

# Metals Cover Page

Analyst: NM

Date: 2/21/18

Instrument: ICP6

Data File: 10feb21A

Reviewed By: CK2/22/18

Entered By: CK2/22/18

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
581213	AgAsBaCdCrPbSe CuKMNiZn	308602	6010C		

581214	Pb	308554	6010C		

581215	CaCdFeKmgmna Pb	308555	6010C		



## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

**ICP-6 Run Log**  
Serial number: MY15340001

Analyst: NM

Date: 2/21/18

Data File: 6FEB21A

	Prep Date	Lot #		Prep Date	Lot #
MRL	1/29/18	M7620094C	Cal Std 1	2/20/18	M7620014D
ICSA	1/30/17	M7620109C	Cal Std 2	2/19/18	M7620024J
ICSAB	1/29/18	M7620116E	Cal Std 5/ HLCCV1	2/15/18	M7620035L
Int. Std	2/20/18	M7620126K	ICV/CCV	2/21/18	M7620054G
HLCCV3	2/12/18	M7620057N	HLCCV2	2/12/18	M7620074F

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
	M7600003T	M7600004D	M25.M35		

1:1	PBS-308602	1:20	PBW-308555	1:40	R1801311-006 100X
1:2	LCSS-308602	1:21	LCSW-308555	1:41	R1801311-007 100X
1:3	R1801334-001	1:22	R1801311-005 10X	1:42	R1801311-011 100X
1:4	R1801334-002	1:23	R1801311-006 10X	1:43	R1801311-012 100X
1:5	R1801334-003	1:24	R1801311-007 10X	1:44	R1801311-013 100X
1:6	R1801334-007	1:25	R1801311-008 10X	1:45	R1801311-014 100X
1:7	R1801334-014	1:26	R1801311-009 10X	1:46	R1801311-015 100X
1:8	R1801334-014S	1:27	R1801311-010 10X	1:47	R1801311-016 100X
1:9	R1801334-014SD	1:28	R1801311-013 10X	1:48	R1801311-009 1000X
1:10	R1801334-014A	1:29	R1801311-003 20X	1:49	R1801311-010 1000X
S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification	S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank	S1:7	Continuing Calibration Blank
1:11	R1801334-014L	1:30	R1801311-016 20X	1:50	R1801311-011 1000X
1:12	R1801339-004	1:31	R1801311-004 30X	1:51	R1801311-012 1000X
1:13	R1801384-005	1:32	R1801311-004S 30X	1:52	R1801311-014 1000X
1:14	R1801384-009	1:33	R1801311-004SD 30X	1:53	R1801311-015 1000X
1:15	R1801384-015	1:34	R1801311-004A 30X	S1:6	Continuing Calibration Verification
1:16	PBW-308554	1:35	R1801311-004L 30X	S1:7	Continuing Calibration Blank
1:17	LCSW-308554	1:36	R1801311-001 50X	S1:3	Contract Required Detection Limit
1:18	R1801227-026	1:37	R1801311-002 50X	S1:4	Interference Check Solution A
1:19	R1801227-026L	1:38	R1801311-017 50X	S1:5	Interference Check Solution AB
S1:6	Continuing Calibration Verification	1:39	R1801311-005 100X	S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank	S1:6	Continuing Calibration Verification	S1:7	Continuing Calibration Blank
S1:3	Contract Required Detection Limit	S1:7	Continuing Calibration Blank		
S1:4	Interference Check Solution A				
S1:5	Interference Check Solution AB				
S1:21	HLCCV2				
S1:22	HLCCV3				
S1:23	HLCCV1				
S1:6	Continuing Calibration Verification				
S1:7	Continuing Calibration Blank				

*NM*  
*2/21/18*





Path: C:\Agilent\ICP Expert\My Results\6FEB21A.esws  
 Date created: 11/10/2015 11:09:45 AM  
 Instrument used: MY15340001  
 Software Version : 7.100.6821.61355 Firmware Version : 2994  
 Notes:

*Analyst: NM 2/2/18  
 (CR 2/22/18)*

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:21:58	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-102.3718
2/21/2018 18:21:58	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	89.3490
2/21/2018 18:21:58	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-3.3128
2/21/2018 18:21:58	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	73.9969
2/21/2018 18:21:58	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.2955
2/21/2018 18:21:58	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-582.2568
2/21/2018 18:21:58	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	7.7226
2/21/2018 18:21:58	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	15.5915
2/21/2018 18:21:58	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5.4653
2/21/2018 18:21:58	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-9.6174
2/21/2018 18:21:58	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	26.9832
2/21/2018 18:21:58	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	38.3754
2/21/2018 18:21:58	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-13.0114
2/21/2018 18:21:58	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.9715
2/21/2018 18:21:58	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.6555
2/21/2018 18:21:58	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.7946
2/21/2018 18:21:58	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4283.4557
2/21/2018 18:21:58	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-22.0810
2/21/2018 18:21:58	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.7826
2/21/2018 18:21:58	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.3214
2/21/2018 18:21:58	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.8168
2/21/2018 18:21:58	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.5880
2/21/2018 18:21:58	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.9393
2/21/2018 18:21:58	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-466.5889
2/21/2018 18:21:58	Blank	Ti (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.8207
2/21/2018 18:21:58	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	88.4740
2/21/2018 18:21:58	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	983183.39
2/21/2018 18:21:58	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	982801.95
2/21/2018 18:21:58	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-27.9380
2/21/2018 18:25:20	Standard 1	Ag (328.068 nm)		N/A		-101.1426
2/21/2018 18:25:20	Standard 1	Al (394.401 nm)		N/A		340.6199
2/21/2018 18:25:20	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	1.7272
2/21/2018 18:25:20	Standard 1	B (249.772 nm)		N/A		60.5178
2/21/2018 18:25:20	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	779.2140
2/21/2018 18:25:20	Standard 1	Be (313.107 nm)		N/A		-591.1286
2/21/2018 18:25:20	Standard 1	Ca (227.547 nm)		N/A		38.7367
2/21/2018 18:25:20	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	38.7934
2/21/2018 18:25:20	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	28.5777
2/21/2018 18:25:20	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	248.1855
2/21/2018 18:25:20	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	755.0980

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:25:20	Standard 1	Fe (234.350 nm)		N/A		21.8377
2/21/2018 18:25:20	Standard 1	K (766.491 nm)		N/A		6872.8838
2/21/2018 18:25:20	Standard 1	Mg (279.078 nm)		N/A		1056.9872
2/21/2018 18:25:20	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	3643.5043
2/21/2018 18:25:20	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	285.7058
2/21/2018 18:25:20	Standard 1	Na (588.995 nm)		N/A		24428.2442
2/21/2018 18:25:20	Standard 1	Ni (230.299 nm)		N/A		-24.8886
2/21/2018 18:25:20	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	18.1947
2/21/2018 18:25:20	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	15.8845
2/21/2018 18:25:20	Standard 1	Se (196.026 nm)		N/A		-1.4679
2/21/2018 18:25:20	Standard 1	Sn (189.925 nm)		N/A		-0.9676
2/21/2018 18:25:20	Standard 1	Sr (216.596 nm)		N/A		1.3649
2/21/2018 18:25:20	Standard 1	Ti (336.122 nm)		N/A		-461.7857
2/21/2018 18:25:20	Standard 1	Tl (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	33.9465
2/21/2018 18:25:20	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	205.7850
2/21/2018 18:25:20	Standard 1	Y (360.074 nm)	1.00 (Ratio)	0.64	1.00 (Ratio)	982353.32
2/21/2018 18:25:20	Standard 1	Y_R (360.074 nm)	1.00 (Ratio)	0.64	1.00 (Ratio)	982130.65
2/21/2018 18:25:20	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	283.4427
2/21/2018 18:28:42	Standard 2	Ag (328.068 nm)		N/A		-99.5763
2/21/2018 18:28:42	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1341.9953
2/21/2018 18:28:42	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	6.7892
2/21/2018 18:28:42	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	6056.1660
2/21/2018 18:28:42	Standard 2	Ba (230.424 nm)		N/A		4.8449
2/21/2018 18:28:42	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3832.3020
2/21/2018 18:28:42	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	67.3494
2/21/2018 18:28:42	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	133.9100
2/21/2018 18:28:42	Standard 2	Co (230.786 nm)		N/A		-2.3405
2/21/2018 18:28:42	Standard 2	Cr (267.716 nm)		N/A		-6.0831
2/21/2018 18:28:42	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1415.1760
2/21/2018 18:28:42	Standard 2	Fe (234.350 nm)		N/A		52.9278
2/21/2018 18:28:42	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	6861.5536
2/21/2018 18:28:42	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2104.6013
2/21/2018 18:28:42	Standard 2	Mn (257.610 nm)		N/A		18.6976
2/21/2018 18:28:42	Standard 2	Mo (202.032 nm)		N/A		5.1013
2/21/2018 18:28:42	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	52094.5009
2/21/2018 18:28:42	Standard 2	Ni (230.299 nm)		N/A		-20.7588
2/21/2018 18:28:42	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	126.1790
2/21/2018 18:28:42	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	95.5397
2/21/2018 18:28:42	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	9.9682
2/21/2018 18:28:42	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	658.1204
2/21/2018 18:28:42	Standard 2	Sr (216.596 nm)		N/A		-1.1489
2/21/2018 18:28:42	Standard 2	Ti (336.122 nm)		N/A		-452.8186
2/21/2018 18:28:42	Standard 2	Tl (351.923 nm)		N/A		0.0639
2/21/2018 18:28:42	Standard 2	V (292.401 nm)		N/A		90.5596
2/21/2018 18:28:42	Standard 2	Y (360.074 nm)	1.00 (Ratio)	0.55	1.00 (Ratio)	983863.25
2/21/2018 18:28:42	Standard 2	Y_R (360.074 nm)	1.00 (Ratio)	0.55	1.00 (Ratio)	983757.07
2/21/2018 18:28:42	Standard 2	Zn (213.857 nm)		N/A		-31.1212
2/21/2018 18:32:04	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	657.3323
2/21/2018 18:32:04	Standard 3	Al (394.401 nm)		N/A		2524.8346
2/21/2018 18:32:04	Standard 3	As (188.980 nm)		N/A		16.8993
2/21/2018 18:32:04	Standard 3	B (249.772 nm)		N/A		1539.3648

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:32:04	Standard 3	Ba (230.424 nm)		N/A		7619.1100
2/21/2018 18:32:04	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	7140.0786
2/21/2018 18:32:04	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	39.0259
2/21/2018 18:32:04	Standard 3	Cd (214.439 nm)		N/A		246.3162
2/21/2018 18:32:04	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	566.9061
2/21/2018 18:32:04	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	507.9705
2/21/2018 18:32:04	Standard 3	Cu (327.395 nm)		N/A		1708.3925
2/21/2018 18:32:04	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1205.9310
2/21/2018 18:32:04	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1675.6459
2/21/2018 18:32:04	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1045.2408
2/21/2018 18:32:04	Standard 3	Mn (257.610 nm)		N/A		5165.8410
2/21/2018 18:32:04	Standard 3	Mo (202.032 nm)		N/A		555.0659
2/21/2018 18:32:04	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	23985.7069
2/21/2018 18:32:04	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	272.5417
2/21/2018 18:32:04	Standard 3	Pb (220.353 nm)		N/A		27.1532
2/21/2018 18:32:04	Standard 3	Sb (217.582 nm)		N/A		157.9720
2/21/2018 18:32:04	Standard 3	Se (196.026 nm)		N/A		7.9223
2/21/2018 18:32:04	Standard 3	Sn (189.925 nm)		N/A		131.6706
2/21/2018 18:32:04	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	741.7928
2/21/2018 18:32:04	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	10866.1200
2/21/2018 18:32:04	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	62.8941
2/21/2018 18:32:04	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	2017.4400
2/21/2018 18:32:04	Standard 3	Y (360.074 nm)	1.01 (Ratio)	0.60	1.01 (Ratio)	988879.94
2/21/2018 18:32:04	Standard 3	Y_R (360.074 nm)	1.01 (Ratio)	0.61	1.01 (Ratio)	988885.69
2/21/2018 18:32:04	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	589.7566
2/21/2018 18:35:26	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	15172.2403
2/21/2018 18:35:26	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	52850.6767
2/21/2018 18:35:26	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	389.6437
2/21/2018 18:35:26	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	30637.2163
2/21/2018 18:35:26	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	150807.8849
2/21/2018 18:35:26	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	158309.2941
2/21/2018 18:35:26	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	655.8230
2/21/2018 18:35:26	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4689.5865
2/21/2018 18:35:26	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	11291.9384
2/21/2018 18:35:26	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	10413.9674
2/21/2018 18:35:26	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	34029.5462
2/21/2018 18:35:26	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	23812.4989
2/21/2018 18:35:26	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	35318.2350
2/21/2018 18:35:26	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	21247.8266
2/21/2018 18:35:26	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	101512.9167
2/21/2018 18:35:26	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	11155.2814
2/21/2018 18:35:26	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	550812.5508
2/21/2018 18:35:26	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	5881.2937
2/21/2018 18:35:26	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	486.7397
2/21/2018 18:35:26	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	3225.1953
2/21/2018 18:35:26	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	193.2727
2/21/2018 18:35:26	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2649.8407
2/21/2018 18:35:26	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	14977.3340
2/21/2018 18:35:26	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	229200.5548
2/21/2018 18:35:26	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	1193.1602
2/21/2018 18:35:26	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	39293.3447

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:35:26	Standard 4	Y (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	969864.18
2/21/2018 18:35:26	Standard 4	Y_R (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	970011.10
2/21/2018 18:35:26	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	12570.9043
2/21/2018 18:38:48	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	78164.7515
2/21/2018 18:38:48	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	286658.2205
2/21/2018 18:38:48	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1960.9530
2/21/2018 18:38:48	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	156750.6600
2/21/2018 18:38:48	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	710785.8135
2/21/2018 18:38:48	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	789941.7382
2/21/2018 18:38:48	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	3454.6245
2/21/2018 18:38:48	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	22789.3378
2/21/2018 18:38:48	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	55157.9782
2/21/2018 18:38:48	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	51327.7278
2/21/2018 18:38:48	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	174046.9723
2/21/2018 18:38:48	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	115615.7128
2/21/2018 18:38:48	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	185051.6355
2/21/2018 18:38:48	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	106570.2575
2/21/2018 18:38:48	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	496520.2297
2/21/2018 18:38:48	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	55286.9475
2/21/2018 18:38:48	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2773627.8827
2/21/2018 18:38:48	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	28655.2948
2/21/2018 18:38:48	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2371.3816
2/21/2018 18:38:48	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	16299.6489
2/21/2018 18:38:48	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1008.4915
2/21/2018 18:38:48	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12954.5238
2/21/2018 18:38:48	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	73241.4772
2/21/2018 18:38:48	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	1135939.5967
2/21/2018 18:38:48	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	6201.7058
2/21/2018 18:38:48	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	194799.2152
2/21/2018 18:38:48	Standard 5	Y (360.074 nm)	0.94 (Ratio)	0.47	0.94 (Ratio)	923109.13
2/21/2018 18:38:48	Standard 5	Y_R (360.074 nm)	0.94 (Ratio)	0.47	0.94 (Ratio)	923348.17
2/21/2018 18:38:48	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	63596.1027
2/21/2018 18:42:10	Initial Calibration Verification	Ag (328.068 nm)	0.4893 (ppm)	0.17	0.4893 (ppm)	38158.3429
2/21/2018 18:42:10	Initial Calibration Verification	Al (394.401 nm)	9.5859 (ppm)	0.15	9.5859 (ppm)	137021.0763
2/21/2018 18:42:10	Initial Calibration Verification	As (188.980 nm)	0.9605 (ppm)	0.20	0.9605 (ppm)	940.0142
2/21/2018 18:42:10	Initial Calibration Verification	B (249.772 nm)	2.4424 (ppm)	0.18	2.4424 (ppm)	76529.9660
2/21/2018 18:42:10	Initial Calibration Verification	Ba (230.424 nm)	10.4065 (ppm)	0.28	10.4065 (ppm)	370708.2236
2/21/2018 18:42:10	Initial Calibration Verification	Be (313.107 nm)	0.2502 (ppm)	0.17	0.2502 (ppm)	395126.0918
2/21/2018 18:42:10	Initial Calibration Verification	Ca (227.547 nm)	23.9971 (ppm)	0.42	23.9971 (ppm)	1658.1280
2/21/2018 18:42:10	Initial Calibration Verification	Cd (214.439 nm)	0.4995 (ppm)	0.45	0.4995 (ppm)	11401.5282
2/21/2018 18:42:10	Initial Calibration Verification	Co (230.786 nm)	2.5687 (ppm)	0.39	2.5687 (ppm)	28360.5216
2/21/2018 18:42:10	Initial Calibration Verification	Cr (267.716 nm)	0.5181 (ppm)	0.36	0.5181 (ppm)	26604.6170
2/21/2018 18:42:10	Initial Calibration Verification	Cu (327.395 nm)	1.2103 (ppm)	0.17	1.2103 (ppm)	84199.3633
2/21/2018 18:42:10	Initial Calibration Verification	Fe (234.350 nm)	5.0538 (ppm)	0.38	5.0538 (ppm)	58513.3693
2/21/2018 18:42:10	Initial Calibration Verification	K (766.491 nm)	24.4329 (ppm)	0.22	24.4329 (ppm)	90252.0294
2/21/2018 18:42:10	Initial Calibration Verification	Mg (279.078 nm)	24.8928 (ppm)	0.28	24.8928 (ppm)	53047.8009
2/21/2018 18:42:10	Initial Calibration Verification	Mn (257.610 nm)	0.7638 (ppm)	0.31	0.7638 (ppm)	253044.7667
2/21/2018 18:42:10	Initial Calibration Verification	Mo (202.032 nm)	2.4378 (ppm)	0.38	2.4378 (ppm)	26967.4043
2/21/2018 18:42:10	Initial Calibration Verification	Na (588.995 nm)	24.4846 (ppm)	0.25	24.4846 (ppm)	1356000.8867
2/21/2018 18:42:10	Initial Calibration Verification	Ni (230.299 nm)	2.0468 (ppm)	0.40	2.0468 (ppm)	14668.6027
2/21/2018 18:42:10	Initial Calibration Verification	Pb (220.353 nm)	0.4989 (ppm)	0.31	0.4989 (ppm)	1186.3767

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:42:10	Initial Calibration Verification	Sb (217.582 nm)	4.8639 (ppm)	0.13	4.8639 (ppm)	7924.5287
2/21/2018 18:42:10	Initial Calibration Verification	Se (196.026 nm)	0.4819 (ppm)	0.42	0.4819 (ppm)	484.8395
2/21/2018 18:42:10	Initial Calibration Verification	Sn (189.925 nm)	5.0637 (ppm)	0.48	5.0637 (ppm)	6565.5890
2/21/2018 18:42:10	Initial Calibration Verification	Sr (216.596 nm)	2.5251 (ppm)	0.64	2.5251 (ppm)	37020.2020
2/21/2018 18:42:10	Initial Calibration Verification	Ti (336.122 nm)	2.4876 (ppm)	0.18	2.4876 (ppm)	565157.0917
2/21/2018 18:42:10	Initial Calibration Verification	Tl (351.923 nm)	0.9862 (ppm)	0.26	0.9862 (ppm)	3053.3976
2/21/2018 18:42:10	Initial Calibration Verification	V (292.401 nm)	2.4932 (ppm)	0.31	2.4932 (ppm)	97202.3913
2/21/2018 18:42:10	Initial Calibration Verification	Y (360.074 nm)	0.96 (Ratio)	0.64	0.96 (Ratio)	947463.01
2/21/2018 18:42:10	Initial Calibration Verification	Y_R (360.074 nm)	0.96 (Ratio)	0.64	0.96 (Ratio)	947705.27
2/21/2018 18:42:10	Initial Calibration Verification	Zn (213.857 nm)	0.9947 (ppm)	0.42	0.9947 (ppm)	31603.8632
2/21/2018 18:45:30	Initial Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	75.72	-0.0001 (ppm)	-107.0263
2/21/2018 18:45:30	Initial Calibration Blank	Al (394.401 nm)	-0.0007 u (ppm)	46.04	-0.0007 (ppm)	79.7484
2/21/2018 18:45:30	Initial Calibration Blank	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.2830
2/21/2018 18:45:30	Initial Calibration Blank	B (249.772 nm)	0.0034 (ppm)	11.48	0.0034 (ppm)	180.1031
2/21/2018 18:45:30	Initial Calibration Blank	Ba (230.424 nm)	0.0007 (ppm)	65.32	0.0007 (ppm)	29.9705
2/21/2018 18:45:30	Initial Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	29.85	0.0000 (ppm)	-545.1420
2/21/2018 18:45:30	Initial Calibration Blank	Ca (227.547 nm)	0.0384 (ppm)	16.47	0.0384 (ppm)	10.3606
2/21/2018 18:45:30	Initial Calibration Blank	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.4149
2/21/2018 18:45:30	Initial Calibration Blank	Co (230.786 nm)	0.0003 (ppm)	88.13	0.0003 (ppm)	-2.4161
2/21/2018 18:45:30	Initial Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	25.85	0.0001 (ppm)	-4.0781
2/21/2018 18:45:30	Initial Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	31.2300
2/21/2018 18:45:30	Initial Calibration Blank	Fe (234.350 nm)	-0.0008 u (ppm)	21.90	-0.0008 (ppm)	28.8308
2/21/2018 18:45:30	Initial Calibration Blank	K (766.491 nm)	0.0448 (ppm)	31.74	0.0448 (ppm)	152.3902
2/21/2018 18:45:30	Initial Calibration Blank	Mg (279.078 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	-1.9673
2/21/2018 18:45:30	Initial Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	44.05	0.0001 (ppm)	28.2608
2/21/2018 18:45:30	Initial Calibration Blank	Mo (202.032 nm)	0.0018 (ppm)	21.54	0.0018 (ppm)	26.6835
2/21/2018 18:45:30	Initial Calibration Blank	Na (588.995 nm)	0.0144 (ppm)	14.20	0.0144 (ppm)	-3482.7044
2/21/2018 18:45:30	Initial Calibration Blank	Ni (230.299 nm)	0.0003 (ppm)	55.00	0.0003 (ppm)	-20.0594
2/21/2018 18:45:30	Initial Calibration Blank	Pb (220.353 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	5.5650
2/21/2018 18:45:30	Initial Calibration Blank	Sb (217.582 nm)	0.0032 (ppm)	40.24	0.0032 (ppm)	4.9212
2/21/2018 18:45:30	Initial Calibration Blank	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6367
2/21/2018 18:45:30	Initial Calibration Blank	Sn (189.925 nm)	0.0007 (ppm)	76.16	0.0007 (ppm)	0.3220
2/21/2018 18:45:30	Initial Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	0.8099
2/21/2018 18:45:30	Initial Calibration Blank	Ti (336.122 nm)	0.0009 (ppm)	13.12	0.0009 (ppm)	-253.8607
2/21/2018 18:45:30	Initial Calibration Blank	Tl (351.923 nm)	0.0038 (ppm)	8.53	0.0038 (ppm)	11.0935
2/21/2018 18:45:30	Initial Calibration Blank	V (292.401 nm)	0.0003 (ppm)	20.06	0.0003 (ppm)	100.2870
2/21/2018 18:45:30	Initial Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	993299.59
2/21/2018 18:45:30	Initial Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	993457.37
2/21/2018 18:45:30	Initial Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	69.80	0.0002 (ppm)	-22.6928
2/21/2018 18:48:50	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	0.86	0.0098 (ppm)	661.5508
2/21/2018 18:48:50	Contract Required Detection Limit	Al (394.401 nm)	0.1765 (ppm)	0.02	0.1765 (ppm)	2611.0835
2/21/2018 18:48:50	Contract Required Detection Limit	As (188.980 nm)	0.0210 (ppm)	11.53	0.0210 (ppm)	17.2743
2/21/2018 18:48:50	Contract Required Detection Limit	B (249.772 nm)	0.1970 (ppm)	0.19	0.1970 (ppm)	6240.8871
2/21/2018 18:48:50	Contract Required Detection Limit	Ba (230.424 nm)	0.2105 (ppm)	0.05	0.2105 (ppm)	7504.2408
2/21/2018 18:48:50	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.28	0.0049 (ppm)	7116.3920
2/21/2018 18:48:50	Contract Required Detection Limit	Ca (227.547 nm)	0.9085 (ppm)	4.27	0.9085 (ppm)	70.2046
2/21/2018 18:48:50	Contract Required Detection Limit	Cd (214.439 nm)	0.0099 (ppm)	1.36	0.0099 (ppm)	242.3291
2/21/2018 18:48:50	Contract Required Detection Limit	Co (230.786 nm)	0.0502 (ppm)	0.63	0.0502 (ppm)	548.5640
2/21/2018 18:48:50	Contract Required Detection Limit	Cr (267.716 nm)	0.0100 (ppm)	0.92	0.0100 (ppm)	504.2843
2/21/2018 18:48:50	Contract Required Detection Limit	Cu (327.395 nm)	0.0241 (ppm)	0.23	0.0241 (ppm)	1705.6901
2/21/2018 18:48:50	Contract Required Detection Limit	Fe (234.350 nm)	0.1034 (ppm)	0.22	0.1034 (ppm)	1235.1165

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:48:50	Contract Required Detection Limit	K (766.491 nm)	0.9419 (ppm)	0.51	0.9419 (ppm)	3466.7059
2/21/2018 18:48:50	Contract Required Detection Limit	Mg (279.078 nm)	1.0129 (ppm)	0.50	1.0129 (ppm)	2153.7578
2/21/2018 18:48:50	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.16	0.0154 (ppm)	5092.5793
2/21/2018 18:48:50	Contract Required Detection Limit	Mo (202.032 nm)	0.0248 (ppm)	1.31	0.0248 (ppm)	280.9443
2/21/2018 18:48:50	Contract Required Detection Limit	Na (588.995 nm)	1.0190 (ppm)	0.43	1.0190 (ppm)	52327.1080
2/21/2018 18:48:50	Contract Required Detection Limit	Ni (230.299 nm)	0.0414 (ppm)	0.91	0.0414 (ppm)	275.3834
2/21/2018 18:48:50	Contract Required Detection Limit	Pb (220.353 nm)	0.0098 (ppm)	10.01	0.0098 (ppm)	27.9573
2/21/2018 18:48:50	Contract Required Detection Limit	Sb (217.582 nm)	0.0600 (ppm)	2.01	0.0600 (ppm)	97.3777
2/21/2018 18:48:50	Contract Required Detection Limit	Se (196.026 nm)	0.0111 (ppm)	23.06	0.0111 (ppm)	10.4052
2/21/2018 18:48:50	Contract Required Detection Limit	Sn (189.925 nm)	0.5059 (ppm)	0.18	0.5059 (ppm)	655.4634
2/21/2018 18:48:50	Contract Required Detection Limit	Sr (216.596 nm)	0.1007 (ppm)	1.11	0.1007 (ppm)	1474.6972
2/21/2018 18:48:50	Contract Required Detection Limit	Ti (336.122 nm)	0.0503 (ppm)	0.29	0.0503 (ppm)	10961.0237
2/21/2018 18:48:50	Contract Required Detection Limit	Ti (351.923 nm)	0.0212 (ppm)	1.34	0.0212 (ppm)	64.7447
2/21/2018 18:48:50	Contract Required Detection Limit	V (292.401 nm)	0.0483 (ppm)	0.37	0.0483 (ppm)	1970.1172
2/21/2018 18:48:50	Contract Required Detection Limit	Y (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	997921.98
2/21/2018 18:48:50	Contract Required Detection Limit	Y_R (360.074 nm)	1.02 (Ratio)	0.39	1.02 (Ratio)	998094.54
2/21/2018 18:48:50	Contract Required Detection Limit	Zn (213.857 nm)	0.0198 (ppm)	0.43	0.0198 (ppm)	602.8975
2/21/2018 18:52:11	Interference Check Solution A	Ag (328.068 nm)	0.0001 (ppm)	93.78	0.0001 (ppm)	-97.2139
2/21/2018 18:52:11	Interference Check Solution A	Al (394.401 nm)	267.9468 o (ppm)	0.20	267.9468 (ppm)	3827609.1417
2/21/2018 18:52:11	Interference Check Solution A	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.5508
2/21/2018 18:52:11	Interference Check Solution A	B (249.772 nm)	0.0326 (ppm)	1.09	0.0326 (ppm)	1093.0862
2/21/2018 18:52:11	Interference Check Solution A	Ba (230.424 nm)	0.0005 (ppm)	15.56	0.0005 (ppm)	22.3815
2/21/2018 18:52:11	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	8.45	-0.0001 (ppm)	-672.4930
2/21/2018 18:52:11	Interference Check Solution A	Ca (227.547 nm)	270.2617 o (ppm)	0.11	270.2617 (ppm)	18595.0107
2/21/2018 18:52:11	Interference Check Solution A	Cd (214.439 nm)	-0.0011 Ku (ppm)	10.56	-0.0011 (ppm)	-10.5047 K
2/21/2018 18:52:11	Interference Check Solution A	Co (230.786 nm)	-0.0013 u (ppm)	21.21	-0.0013 (ppm)	-19.7178
2/21/2018 18:52:11	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	27.55	0.0002 (ppm)	1.1180
2/21/2018 18:52:11	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	25.51	0.0006 (ppm)	66.3418
2/21/2018 18:52:11	Interference Check Solution A	Fe (234.350 nm)	91.9276 o (ppm)	0.42	91.9276 (ppm)	1063677.8783
2/21/2018 18:52:11	Interference Check Solution A	K (766.491 nm)	0.0249 (ppm)	> 100.00	0.0249 (ppm)	79.0618
2/21/2018 18:52:11	Interference Check Solution A	Mg (279.078 nm)	259.7787 o (ppm)	0.49	259.7787 (ppm)	553649.4094
2/21/2018 18:52:11	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.35	0.0016 (ppm)	525.0680
2/21/2018 18:52:11	Interference Check Solution A	Mo (202.032 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	10.7331
2/21/2018 18:52:11	Interference Check Solution A	Na (588.995 nm)	0.0149 (ppm)	17.76	0.0149 (ppm)	-3456.5336
2/21/2018 18:52:11	Interference Check Solution A	Ni (230.299 nm)	-0.0020 u (ppm)	31.65	-0.0020 (ppm)	-36.5779
2/21/2018 18:52:11	Interference Check Solution A	Pb (220.353 nm)	-0.0008 u (ppm)	58.84	-0.0008 (ppm)	2.9925
2/21/2018 18:52:11	Interference Check Solution A	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.6726
2/21/2018 18:52:11	Interference Check Solution A	Se (196.026 nm)	0.0026 (ppm)	53.17	0.0026 (ppm)	1.7799
2/21/2018 18:52:11	Interference Check Solution A	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.7575
2/21/2018 18:52:11	Interference Check Solution A	Sr (216.596 nm)	0.0199 (ppm)	1.71	0.0199 (ppm)	290.0776
2/21/2018 18:52:11	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	2.25	0.0018 (ppm)	-63.3640
2/21/2018 18:52:11	Interference Check Solution A	Ti (351.923 nm)	0.0031 u (ppm)	95.13	0.0031 (ppm)	8.8934
2/21/2018 18:52:11	Interference Check Solution A	V (292.401 nm)	0.0037 K (ppm)	0.88	0.0037 (ppm)	234.4577 K
2/21/2018 18:52:11	Interference Check Solution A	Y (360.074 nm)	0.88 (Ratio)	0.59	0.88 (Ratio)	868740.52
2/21/2018 18:52:11	Interference Check Solution A	Y_R (360.074 nm)	0.88 (Ratio)	0.59	0.88 (Ratio)	869049.52
2/21/2018 18:52:11	Interference Check Solution A	Zn (213.857 nm)	0.0115 K (ppm)	0.43	0.0115 (ppm)	338.5071 K
2/21/2018 18:55:32	Interference Check Solution AB	Ag (328.068 nm)	0.2148 (ppm)	0.52	0.2148 (ppm)	16694.5183
2/21/2018 18:55:32	Interference Check Solution AB	Al (394.401 nm)	267.8585 o (ppm)	0.29	267.8585 (ppm)	3826347.6676
2/21/2018 18:55:32	Interference Check Solution AB	As (188.980 nm)	0.1019 (ppm)	4.17	0.1019 (ppm)	96.7466
2/21/2018 18:55:32	Interference Check Solution AB	B (249.772 nm)	0.0335 (ppm)	1.47	0.0335 (ppm)	1124.0556
2/21/2018 18:55:32	Interference Check Solution AB	Ba (230.424 nm)	0.5324 (ppm)	0.79	0.5324 (ppm)	18971.3892

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:55:32	Interference Check Solution AB	Be (313.107 nm)	0.5008 (ppm)	0.56	0.5008 (ppm)	791405.6303
2/21/2018 18:55:32	Interference Check Solution AB	Ca (227.547 nm)	270.2762 o (ppm)	0.19	270.2762 (ppm)	18596.0110
2/21/2018 18:55:32	Interference Check Solution AB	Cd (214.439 nm)	0.9589 (ppm)	0.79	0.9589 (ppm)	21874.7858
2/21/2018 18:55:32	Interference Check Solution AB	Co (230.786 nm)	0.4918 (ppm)	1.01	0.4918 (ppm)	5425.2742
2/21/2018 18:55:32	Interference Check Solution AB	Cr (267.716 nm)	0.5031 (ppm)	0.64	0.5031 (ppm)	25834.8334
2/21/2018 18:55:32	Interference Check Solution AB	Cu (327.395 nm)	0.5343 (ppm)	0.34	0.5343 (ppm)	37183.5290
2/21/2018 18:55:32	Interference Check Solution AB	Fe (234.350 nm)	91.7758 o (ppm)	0.57	91.7758 (ppm)	1061922.6011
2/21/2018 18:55:32	Interference Check Solution AB	K (766.491 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	-22.8647
2/21/2018 18:55:32	Interference Check Solution AB	Mg (279.078 nm)	259.7111 o (ppm)	0.64	259.7111 (ppm)	553505.4133
2/21/2018 18:55:32	Interference Check Solution AB	Mn (257.610 nm)	0.4990 (ppm)	0.56	0.4990 (ppm)	165322.5122
2/21/2018 18:55:32	Interference Check Solution AB	Mo (202.032 nm)	0.0007 (ppm)	57.59	0.0007 (ppm)	14.1077
2/21/2018 18:55:32	Interference Check Solution AB	Na (588.995 nm)	0.0148 (ppm)	4.63	0.0148 (ppm)	-3463.8871
2/21/2018 18:55:32	Interference Check Solution AB	Ni (230.299 nm)	0.9623 (ppm)	0.49	0.9623 (ppm)	6884.8102
2/21/2018 18:55:32	Interference Check Solution AB	Pb (220.353 nm)	0.0484 (ppm)	1.91	0.0484 (ppm)	119.4874
2/21/2018 18:55:32	Interference Check Solution AB	Sb (217.582 nm)	0.6169 (ppm)	0.60	0.6169 (ppm)	1004.8841
2/21/2018 18:55:32	Interference Check Solution AB	Se (196.026 nm)	0.0535 (ppm)	5.54	0.0535 (ppm)	53.0880
2/21/2018 18:55:32	Interference Check Solution AB	Sn (189.925 nm)	-0.0034 u (ppm)	86.41	-0.0034 (ppm)	-4.9528
2/21/2018 18:55:32	Interference Check Solution AB	Sr (216.596 nm)	0.0203 (ppm)	2.43	0.0203 (ppm)	296.1318
2/21/2018 18:55:32	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	6.35	0.0017 (ppm)	-78.4199
2/21/2018 18:55:32	Interference Check Solution AB	Tl (351.923 nm)	0.1174 (ppm)	2.34	0.1174 (ppm)	362.5968
2/21/2018 18:55:32	Interference Check Solution AB	V (292.401 nm)	0.5008 (ppm)	0.48	0.5008 (ppm)	19597.6166
2/21/2018 18:55:32	Interference Check Solution AB	Y (360.074 nm)	0.89 (Ratio)	0.48	0.89 (Ratio)	870232.41
2/21/2018 18:55:32	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	0.48	0.89 (Ratio)	870571.55
2/21/2018 18:55:32	Interference Check Solution AB	Zn (213.857 nm)	1.0227 (ppm)	0.62	1.0227 (ppm)	32493.8452
2/21/2018 18:58:53	Continuing Calibration Verification	Ag (328.068 nm)	0.4872 (ppm)	0.34	0.4872 (ppm)	37993.8646
2/21/2018 18:58:53	Continuing Calibration Verification	Al (394.401 nm)	9.6102 (ppm)	0.12	9.6102 (ppm)	137367.4647
2/21/2018 18:58:53	Continuing Calibration Verification	As (188.980 nm)	0.9456 (ppm)	1.33	0.9456 (ppm)	925.3954
2/21/2018 18:58:53	Continuing Calibration Verification	B (249.772 nm)	2.4217 (ppm)	0.33	2.4217 (ppm)	75882.9027
2/21/2018 18:58:53	Continuing Calibration Verification	Ba (230.424 nm)	10.3493 (ppm)	0.57	10.3493 (ppm)	368668.4808
2/21/2018 18:58:53	Continuing Calibration Verification	Be (313.107 nm)	0.2492 (ppm)	0.45	0.2492 (ppm)	393558.6403
2/21/2018 18:58:53	Continuing Calibration Verification	Ca (227.547 nm)	24.0130 (ppm)	0.10	24.0130 (ppm)	1659.2219
2/21/2018 18:58:53	Continuing Calibration Verification	Cd (214.439 nm)	0.4948 (ppm)	0.86	0.4948 (ppm)	11294.9442
2/21/2018 18:58:53	Continuing Calibration Verification	Co (230.786 nm)	2.5518 (ppm)	0.45	2.5518 (ppm)	28174.2440
2/21/2018 18:58:53	Continuing Calibration Verification	Cr (267.716 nm)	0.5159 (ppm)	0.60	0.5159 (ppm)	26490.7867
2/21/2018 18:58:53	Continuing Calibration Verification	Cu (327.395 nm)	1.2030 (ppm)	0.06	1.2030 (ppm)	83694.5125
2/21/2018 18:58:53	Continuing Calibration Verification	Fe (234.350 nm)	5.0393 (ppm)	0.49	5.0393 (ppm)	58344.9469
2/21/2018 18:58:53	Continuing Calibration Verification	K (766.491 nm)	24.3039 (ppm)	0.41	24.3039 (ppm)	89775.1164
2/21/2018 18:58:53	Continuing Calibration Verification	Mg (279.078 nm)	24.7909 (ppm)	0.37	24.7909 (ppm)	52830.6661
2/21/2018 18:58:53	Continuing Calibration Verification	Mn (257.610 nm)	0.7599 (ppm)	0.48	0.7599 (ppm)	251750.2321
2/21/2018 18:58:53	Continuing Calibration Verification	Mo (202.032 nm)	2.4191 (ppm)	0.47	2.4191 (ppm)	26760.5131
2/21/2018 18:58:53	Continuing Calibration Verification	Na (588.995 nm)	24.3323 (ppm)	0.55	24.3323 (ppm)	1347543.0474
2/21/2018 18:58:53	Continuing Calibration Verification	Ni (230.299 nm)	2.0367 (ppm)	0.57	2.0367 (ppm)	14595.8636
2/21/2018 18:58:53	Continuing Calibration Verification	Pb (220.353 nm)	0.4951 (ppm)	0.62	0.4951 (ppm)	1177.3697
2/21/2018 18:58:53	Continuing Calibration Verification	Sb (217.582 nm)	4.8261 (ppm)	0.15	4.8261 (ppm)	7862.9396
2/21/2018 18:58:53	Continuing Calibration Verification	Se (196.026 nm)	0.4745 (ppm)	0.80	0.4745 (ppm)	477.3781
2/21/2018 18:58:53	Continuing Calibration Verification	Sn (189.925 nm)	4.9981 (ppm)	0.78	4.9981 (ppm)	6480.4623
2/21/2018 18:58:53	Continuing Calibration Verification	Sr (216.596 nm)	2.5114 (ppm)	0.67	2.5114 (ppm)	36818.3669
2/21/2018 18:58:53	Continuing Calibration Verification	Ti (336.122 nm)	2.4926 (ppm)	0.28	2.4926 (ppm)	566272.0418
2/21/2018 18:58:53	Continuing Calibration Verification	Tl (351.923 nm)	0.9856 (ppm)	0.14	0.9856 (ppm)	3051.4053
2/21/2018 18:58:53	Continuing Calibration Verification	V (292.401 nm)	2.4802 (ppm)	0.42	2.4802 (ppm)	96697.8004
2/21/2018 18:58:53	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.65	0.97 (Ratio)	950425.81

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 18:58:53	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.66	0.97 (Ratio)	950810.99
2/21/2018 18:58:53	Continuing Calibration Verification	Zn (213.857 nm)	0.9842 (ppm)	0.49	0.9842 (ppm)	31268.0438
2/21/2018 19:02:13	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	84.95	-0.0001 (ppm)	-109.7385
2/21/2018 19:02:13	Continuing Calibration Blank	Al (394.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	86.2327
2/21/2018 19:02:13	Continuing Calibration Blank	As (188.980 nm)	0.0020 u (ppm)	98.10	0.0020 (ppm)	-1.3803
2/21/2018 19:02:13	Continuing Calibration Blank	B (249.772 nm)	0.0019 (ppm)	9.93	0.0019 (ppm)	134.4501
2/21/2018 19:02:13	Continuing Calibration Blank	Ba (230.424 nm)	0.0005 (ppm)	62.80	0.0005 (ppm)	23.1749
2/21/2018 19:02:13	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	14.52	0.0000 (ppm)	-537.5497
2/21/2018 19:02:13	Continuing Calibration Blank	Ca (227.547 nm)	-0.0111 u (ppm)	> 100.00	-0.0111 (ppm)	6.9565
2/21/2018 19:02:13	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.4044
2/21/2018 19:02:13	Continuing Calibration Blank	Co (230.786 nm)	0.0002 (ppm)	26.97	0.0002 (ppm)	-2.9662
2/21/2018 19:02:13	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-10.6253
2/21/2018 19:02:13	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	23.4876
2/21/2018 19:02:13	Continuing Calibration Blank	Fe (234.350 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	33.8329
2/21/2018 19:02:13	Continuing Calibration Blank	K (766.491 nm)	0.0252 (ppm)	9.17	0.0252 (ppm)	79.9883
2/21/2018 19:02:13	Continuing Calibration Blank	Mg (279.078 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-2.5932
2/21/2018 19:02:13	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	50.96	0.0001 (ppm)	17.3680
2/21/2018 19:02:13	Continuing Calibration Blank	Mo (202.032 nm)	0.0013 (ppm)	3.01	0.0013 (ppm)	21.0014
2/21/2018 19:02:13	Continuing Calibration Blank	Na (588.995 nm)	0.0061 (ppm)	12.94	0.0061 (ppm)	-3943.9417
2/21/2018 19:02:13	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-21.4959
2/21/2018 19:02:13	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	5.4661
2/21/2018 19:02:13	Continuing Calibration Blank	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.7957
2/21/2018 19:02:13	Continuing Calibration Blank	Se (196.026 nm)	-0.0016 u (ppm)	42.57	-0.0016 (ppm)	-2.4135
2/21/2018 19:02:13	Continuing Calibration Blank	Sn (189.925 nm)	0.0024 (ppm)	7.70	0.0024 (ppm)	2.5079
2/21/2018 19:02:13	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.0849
2/21/2018 19:02:13	Continuing Calibration Blank	Tl (336.122 nm)	0.0007 (ppm)	10.88	0.0007 (ppm)	-298.8199
2/21/2018 19:02:13	Continuing Calibration Blank	Tl (351.923 nm)	0.0012 (ppm)	62.04	0.0012 (ppm)	3.0156
2/21/2018 19:02:13	Continuing Calibration Blank	V (292.401 nm)	0.0002 (ppm)	54.63	0.0002 (ppm)	97.5860
2/21/2018 19:02:13	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.56	1.02 (Ratio)	1001065.00
2/21/2018 19:02:13	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.56	1.02 (Ratio)	1001445.92
2/21/2018 19:02:13	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	81.65	0.0001 (ppm)	-25.8775
2/21/2018 19:05:34	PBS-308602	Ag (328.068 nm)	-0.0001 u (ppm)	58.08	-0.0001 (ppm)	-107.6693
2/21/2018 19:05:34	PBS-308602	Al (394.401 nm)	0.0009 (ppm)	49.97	0.0009 (ppm)	101.7456
2/21/2018 19:05:34	PBS-308602	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-3.6087
2/21/2018 19:05:34	PBS-308602	B (249.772 nm)	0.0010 (ppm)	6.45	0.0010 (ppm)	105.5229
2/21/2018 19:05:34	PBS-308602	Ba (230.424 nm)	0.0003 (ppm)	4.62	0.0003 (ppm)	14.4093
2/21/2018 19:05:34	PBS-308602	Be (313.107 nm)	0.0000 (ppm)	20.94	0.0000 (ppm)	-536.8191
2/21/2018 19:05:34	PBS-308602	Ca (227.547 nm)	0.0665 (ppm)	48.19	0.0665 (ppm)	12.2951
2/21/2018 19:05:34	PBS-308602	Cd (214.439 nm)	0.0001 (ppm)	53.01	0.0001 (ppm)	17.9805
2/21/2018 19:05:34	PBS-308602	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.3209
2/21/2018 19:05:34	PBS-308602	Cr (267.716 nm)	0.0004 (ppm)	7.86	0.0004 (ppm)	8.5619
2/21/2018 19:05:34	PBS-308602	Cu (327.395 nm)	0.0004 (ppm)	19.52	0.0004 (ppm)	57.2002
2/21/2018 19:05:34	PBS-308602	Fe (234.350 nm)	0.0056 (ppm)	1.96	0.0056 (ppm)	103.7171
2/21/2018 19:05:34	PBS-308602	K (766.491 nm)	0.0142 (ppm)	26.61	0.0142 (ppm)	39.3909
2/21/2018 19:05:34	PBS-308602	Mg (279.078 nm)	0.0099 (ppm)	1.40	0.0099 (ppm)	16.1251
2/21/2018 19:05:34	PBS-308602	Mn (257.610 nm)	0.0019 (ppm)	0.42	0.0019 (ppm)	631.1069
2/21/2018 19:05:34	PBS-308602	Mo (202.032 nm)	0.0003 (ppm)	95.28	0.0003 (ppm)	9.8912
2/21/2018 19:05:34	PBS-308602	Na (588.995 nm)	0.0742 (ppm)	1.08	0.0742 (ppm)	-158.5793
2/21/2018 19:05:34	PBS-308602	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.4442
2/21/2018 19:05:34	PBS-308602	Pb (220.353 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	7.0192
2/21/2018 19:05:34	PBS-308602	Sb (217.582 nm)	0.0006 (ppm)	91.39	0.0006 (ppm)	0.7082



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:05:34	PBS-308602	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.5644
2/21/2018 19:05:34	PBS-308602	Sn (189.925 nm)	0.0129 (ppm)	5.46	0.0129 (ppm)	16.0926
2/21/2018 19:05:34	PBS-308602	Sr (216.596 nm)	0.0004 (ppm)	18.43	0.0004 (ppm)	3.8801
2/21/2018 19:05:34	PBS-308602	Ti (336.122 nm)	-0.0001 u (ppm)	20.44	-0.0001 (ppm)	-493.3406
2/21/2018 19:05:34	PBS-308602	Ti (351.923 nm)	0.0015 (ppm)	85.61	0.0015 (ppm)	3.7435
2/21/2018 19:05:34	PBS-308602	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	93.2833
2/21/2018 19:05:34	PBS-308602	Y (360.074 nm)	1.03 (Ratio)	0.81	1.03 (Ratio)	1010328.17
2/21/2018 19:05:34	PBS-308602	Y_R (360.074 nm)	1.03 (Ratio)	0.81	1.03 (Ratio)	1010773.13
2/21/2018 19:05:34	PBS-308602	Zn (213.857 nm)	0.0022 (ppm)	5.74	0.0022 (ppm)	41.2318
2/21/2018 19:08:55	LCSS-308602	Ag (328.068 nm)	0.0462 (ppm)	0.35	0.0462 (ppm)	3507.3151
2/21/2018 19:08:55	LCSS-308602	Al (394.401 nm)	1.7565 (ppm)	0.04	1.7565 (ppm)	25181.0082
2/21/2018 19:08:55	LCSS-308602	As (188.980 nm)	0.0373 (ppm)	3.40	0.0373 (ppm)	33.3551
2/21/2018 19:08:55	LCSS-308602	B (249.772 nm)	0.8904 (ppm)	0.15	0.8904 (ppm)	27946.1164
2/21/2018 19:08:55	LCSS-308602	Ba (230.424 nm)	2.0461 (ppm)	0.46	2.0461 (ppm)	72893.1623
2/21/2018 19:08:55	LCSS-308602	Be (313.107 nm)	0.0467 (ppm)	0.36	0.0467 (ppm)	73230.1762
2/21/2018 19:08:55	LCSS-308602	Ca (227.547 nm)	1.8002 (ppm)	1.81	1.8002 (ppm)	131.5325
2/21/2018 19:08:55	LCSS-308602	Cd (214.439 nm)	0.0492 (ppm)	0.82	0.0492 (ppm)	1137.3169
2/21/2018 19:08:55	LCSS-308602	Co (230.786 nm)	0.4948 (ppm)	0.38	0.4948 (ppm)	5458.9877
2/21/2018 19:08:55	LCSS-308602	Cr (267.716 nm)	0.2007 (ppm)	0.34	0.2007 (ppm)	10301.4348
2/21/2018 19:08:55	LCSS-308602	Cu (327.395 nm)	0.2341 (ppm)	0.15	0.2341 (ppm)	16308.4957
2/21/2018 19:08:55	LCSS-308602	Fe (234.350 nm)	0.9866 (ppm)	0.37	0.9866 (ppm)	11453.3188
2/21/2018 19:08:55	LCSS-308602	K (766.491 nm)	17.8339 (ppm)	0.34	17.8339 (ppm)	65872.6665
2/21/2018 19:08:55	LCSS-308602	Mg (279.078 nm)	1.8737 (ppm)	0.31	1.8737 (ppm)	3988.4448
2/21/2018 19:08:55	LCSS-308602	Mn (257.610 nm)	0.4915 (ppm)	0.35	0.4915 (ppm)	162828.0522
2/21/2018 19:08:55	LCSS-308602	Mo (202.032 nm)	0.4841 (ppm)	0.53	0.4841 (ppm)	5360.9801
2/21/2018 19:08:55	LCSS-308602	Na (588.995 nm)	18.3021 (ppm)	0.55	18.3021 (ppm)	1012520.3525
2/21/2018 19:08:55	LCSS-308602	Ni (230.299 nm)	0.4832 (ppm)	0.31	0.4832 (ppm)	3446.3675
2/21/2018 19:08:55	LCSS-308602	Pb (220.353 nm)	0.4834 (ppm)	0.48	0.4834 (ppm)	1149.6341
2/21/2018 19:08:55	LCSS-308602	Sb (217.582 nm)	0.4380 (ppm)	0.37	0.4380 (ppm)	713.2802
2/21/2018 19:08:55	LCSS-308602	Se (196.026 nm)	0.8895 (ppm)	0.87	0.8895 (ppm)	895.6560
2/21/2018 19:08:55	LCSS-308602	Sn (189.925 nm)	4.7708 (ppm)	0.59	4.7708 (ppm)	6185.7565
2/21/2018 19:08:55	LCSS-308602	Sr (216.596 nm)	1.9977 (ppm)	0.89	1.9977 (ppm)	29287.6234
2/21/2018 19:08:55	LCSS-308602	Ti (336.122 nm)	0.4888 (ppm)	0.16	0.4888 (ppm)	110667.0891
2/21/2018 19:08:55	LCSS-308602	Ti (351.923 nm)	1.7531 (ppm)	0.05	1.7531 (ppm)	5428.2972
2/21/2018 19:08:55	LCSS-308602	V (292.401 nm)	0.4811 (ppm)	0.34	0.4811 (ppm)	18827.1617
2/21/2018 19:08:55	LCSS-308602	Y (360.074 nm)	1.00 (Ratio)	0.83	1.00 (Ratio)	980745.27
2/21/2018 19:08:55	LCSS-308602	Y_R (360.074 nm)	1.00 (Ratio)	0.83	1.00 (Ratio)	981301.29
2/21/2018 19:08:55	LCSS-308602	Zn (213.857 nm)	0.4615 (ppm)	0.15	0.4615 (ppm)	14648.1365
2/21/2018 19:12:17	R1801334-001	Ag (328.068 nm)	0.0038 (ppm)	0.66	0.0038 (ppm)	192.3515
2/21/2018 19:12:17	R1801334-001	Al (394.401 nm)	58.1750 u (ppm)	0.05	58.1750 (ppm)	831098.1171
2/21/2018 19:12:17	R1801334-001	As (188.980 nm)	0.0547 (ppm)	2.50	0.0547 (ppm)	50.3736
2/21/2018 19:12:17	R1801334-001	B (249.772 nm)	0.0766 (ppm)	0.69	0.0766 (ppm)	2471.7454
2/21/2018 19:12:17	R1801334-001	Ba (230.424 nm)	0.6140 (ppm)	0.72	0.6140 (ppm)	21877.8652
2/21/2018 19:12:17	R1801334-001	Be (313.107 nm)	0.0032 (ppm)	0.42	0.0032 (ppm)	4503.7352
2/21/2018 19:12:17	R1801334-001	Ca (227.547 nm)	45.5658 (ppm)	0.21	45.5658 (ppm)	3141.5198
2/21/2018 19:12:17	R1801334-001	Cd (214.439 nm)	0.0076 (ppm)	2.20	0.0076 (ppm)	187.9486
2/21/2018 19:12:17	R1801334-001	Co (230.786 nm)	0.0402 (ppm)	0.74	0.0402 (ppm)	438.7279
2/21/2018 19:12:17	R1801334-001	Cr (267.716 nm)	0.0979 (ppm)	0.48	0.0979 (ppm)	5020.5300
2/21/2018 19:12:17	R1801334-001	Cu (327.395 nm)	0.2120 (ppm)	0.08	0.2120 (ppm)	14768.9272
2/21/2018 19:12:17	R1801334-001	Fe (234.350 nm)	115.4645 u (ppm)	0.25	115.4645 (ppm)	1336009.6833
2/21/2018 19:12:17	R1801334-001	K (766.491 nm)	6.7552 (ppm)	0.33	6.7552 (ppm)	24943.3309

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:12:17	R1801334-001	Mg (279.078 nm)	25.6150 (ppm)	0.41	25.6150 (ppm)	54587.0803
2/21/2018 19:12:17	R1801334-001	Mn (257.610 nm)	5.5274 o (ppm)	0.36	5.5274 (ppm)	1831200.5841
2/21/2018 19:12:17	R1801334-001	Mo (202.032 nm)	0.0040 (ppm)	3.61	0.0040 (ppm)	51.5246
2/21/2018 19:12:17	R1801334-001	Na (588.995 nm)	1.7192 (ppm)	0.56	1.7192 (ppm)	91228.9087
2/21/2018 19:12:17	R1801334-001	Ni (230.299 nm)	0.0803 (ppm)	0.15	0.0803 (ppm)	554.4784
2/21/2018 19:12:17	R1801334-001	Pb (220.353 nm)	0.9772 (ppm)	0.79	0.9772 (ppm)	2319.1852
2/21/2018 19:12:17	R1801334-001	Sb (217.582 nm)	0.0019 (ppm)	> 100.00	0.0019 (ppm)	2.7002
2/21/2018 19:12:17	R1801334-001	Se (196.026 nm)	0.0140 (ppm)	18.64	0.0140 (ppm)	13.2529
2/21/2018 19:12:17	R1801334-001	Sn (189.925 nm)	0.0379 (ppm)	2.97	0.0379 (ppm)	48.5656
2/21/2018 19:12:17	R1801334-001	Sr (216.596 nm)	0.1244 (ppm)	0.90	0.1244 (ppm)	1821.5271
2/21/2018 19:12:17	R1801334-001	Ti (336.122 nm)	0.8701 (ppm)	0.20	0.8701 (ppm)	197373.0430
2/21/2018 19:12:17	R1801334-001	Ti (351.923 nm)	-0.0062 u (ppm)	8.15	-0.0062 (ppm)	-20.0436
2/21/2018 19:12:17	R1801334-001	V (292.401 nm)	0.1535 (ppm)	0.19	0.1535 (ppm)	6069.0122
2/21/2018 19:12:17	R1801334-001	Y (360.074 nm)	1.03 (Ratio)	0.59	1.03 (Ratio)	1012113.92
2/21/2018 19:12:17	R1801334-001	Y_R (360.074 nm)	1.03 (Ratio)	0.59	1.03 (Ratio)	1012778.35
2/21/2018 19:12:17	R1801334-001	Zn (213.857 nm)	3.1218 o (ppm)	0.59	3.1218 (ppm)	99245.0520
2/21/2018 19:15:38	R1801334-002	Ag (328.068 nm)	0.0060 (ppm)	1.31	0.0060 (ppm)	363.1782
2/21/2018 19:15:38	R1801334-002	Al (394.401 nm)	22.9096 o (ppm)	0.17	22.9096 (ppm)	327344.3191
2/21/2018 19:15:38	R1801334-002	As (188.980 nm)	0.0611 (ppm)	2.49	0.0611 (ppm)	56.7149
2/21/2018 19:15:38	R1801334-002	B (249.772 nm)	0.0525 (ppm)	0.23	0.0525 (ppm)	1716.2420
2/21/2018 19:15:38	R1801334-002	Ba (230.424 nm)	0.7737 (ppm)	0.51	0.7737 (ppm)	27567.3643
2/21/2018 19:15:38	R1801334-002	Be (313.107 nm)	0.0024 (ppm)	0.93	0.0024 (ppm)	3153.5263
2/21/2018 19:15:38	R1801334-002	Ca (227.547 nm)	179.0909 o (ppm)	0.17	179.0909 (ppm)	12324.7296
2/21/2018 19:15:38	R1801334-002	Cd (214.439 nm)	0.0024 (ppm)	5.46	0.0024 (ppm)	69.4857
2/21/2018 19:15:38	R1801334-002	Co (230.786 nm)	0.0458 (ppm)	0.34	0.0458 (ppm)	500.1384
2/21/2018 19:15:38	R1801334-002	Cr (267.716 nm)	0.0738 (ppm)	0.57	0.0738 (ppm)	3780.3133
2/21/2018 19:15:38	R1801334-002	Cu (327.395 nm)	0.5870 (ppm)	0.16	0.5870 (ppm)	40851.2648
2/21/2018 19:15:38	R1801334-002	Fe (234.350 nm)	75.9909 o (ppm)	0.63	75.9909 (ppm)	879283.7398
2/21/2018 19:15:38	R1801334-002	K (766.491 nm)	3.4760 (ppm)	0.76	3.4760 (ppm)	12828.7965
2/21/2018 19:15:38	R1801334-002	Mg (279.078 nm)	33.1671 (ppm)	0.50	33.1671 (ppm)	70682.4592
2/21/2018 19:15:38	R1801334-002	Mn (257.610 nm)	1.1526 (ppm)	0.48	1.1526 (ppm)	381850.4328
2/21/2018 19:15:38	R1801334-002	Mo (202.032 nm)	0.0056 (ppm)	7.02	0.0056 (ppm)	68.8485
2/21/2018 19:15:38	R1801334-002	Na (588.995 nm)	2.0066 (ppm)	0.50	2.0066 (ppm)	107194.4418
2/21/2018 19:15:38	R1801334-002	Ni (230.299 nm)	0.0771 (ppm)	0.96	0.0771 (ppm)	531.6507
2/21/2018 19:15:38	R1801334-002	Pb (220.353 nm)	2.5428 o (ppm)	0.63	2.5428 (ppm)	6027.1962
2/21/2018 19:15:38	R1801334-002	Sb (217.582 nm)	0.0063 (ppm)	15.26	0.0063 (ppm)	9.8809
2/21/2018 19:15:38	R1801334-002	Se (196.026 nm)	0.0212 (ppm)	12.58	0.0212 (ppm)	20.5444
2/21/2018 19:15:38	R1801334-002	Sn (189.925 nm)	0.1051 (ppm)	0.66	0.1051 (ppm)	135.6898
2/21/2018 19:15:38	R1801334-002	Sr (216.596 nm)	0.4527 (ppm)	0.77	0.4527 (ppm)	6634.8650
2/21/2018 19:15:38	R1801334-002	Ti (336.122 nm)	0.5378 (ppm)	0.39	0.5378 (ppm)	121819.3990
2/21/2018 19:15:38	R1801334-002	Ti (351.923 nm)	-0.0018 u (ppm)	67.10	-0.0018 (ppm)	-6.4554
2/21/2018 19:15:38	R1801334-002	V (292.401 nm)	0.1188 (ppm)	0.49	0.1188 (ppm)	4714.3603
2/21/2018 19:15:38	R1801334-002	Y (360.074 nm)	0.98 (Ratio)	0.62	0.98 (Ratio)	961846.57
2/21/2018 19:15:38	R1801334-002	Y_R (360.074 nm)	0.98 (Ratio)	0.62	0.98 (Ratio)	962542.99
2/21/2018 19:15:38	R1801334-002	Zn (213.857 nm)	0.7953 (ppm)	0.58	0.7953 (ppm)	25261.3655
2/21/2018 19:18:59	R1801334-003	Ag (328.068 nm)	0.0007 (ppm)	19.00	0.0007 (ppm)	-44.4000
2/21/2018 19:18:59	R1801334-003	Al (394.401 nm)	30.9028 o (ppm)	0.25	30.9028 (ppm)	441524.8765
2/21/2018 19:18:59	R1801334-003	As (188.980 nm)	0.0910 (ppm)	6.46	0.0910 (ppm)	86.0856
2/21/2018 19:18:59	R1801334-003	B (249.772 nm)	0.1004 (ppm)	0.60	0.1004 (ppm)	3217.8414
2/21/2018 19:18:59	R1801334-003	Ba (230.424 nm)	0.4042 (ppm)	0.60	0.4042 (ppm)	14404.7602
2/21/2018 19:18:59	R1801334-003	Be (313.107 nm)	0.0035 (ppm)	0.29	0.0035 (ppm)	4918.5529

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:18:59	R1801334-003	Ca (227.547 nm)	367.0140 o (ppm)	0.29	367.0140 (ppm)	25249.1694
2/21/2018 19:18:59	R1801334-003	Cd (214.439 nm)	0.0102 (ppm)	1.15	0.0102 (ppm)	247.7215
2/21/2018 19:18:59	R1801334-003	Co (230.786 nm)	0.0196 (ppm)	4.25	0.0196 (ppm)	210.4846
2/21/2018 19:18:59	R1801334-003	Cr (267.716 nm)	0.0823 (ppm)	0.29	0.0823 (ppm)	4218.4207
2/21/2018 19:18:59	R1801334-003	Cu (327.395 nm)	1.6780 (ppm)	0.25	1.6780 (ppm)	116728.5655
2/21/2018 19:18:59	R1801334-003	Fe (234.350 nm)	169.7813 o (ppm)	0.45	169.7813 (ppm)	1964477.8580
2/21/2018 19:18:59	R1801334-003	K (766.491 nm)	4.3140 (ppm)	0.86	4.3140 (ppm)	15924.5520
2/21/2018 19:18:59	R1801334-003	Mg (279.078 nm)	204.1513 o (ppm)	0.38	204.1513 (ppm)	435093.2824
2/21/2018 19:18:59	R1801334-003	Mn (257.610 nm)	3.4185 o (ppm)	0.27	3.4185 (ppm)	1132554.2052
2/21/2018 19:18:59	R1801334-003	Mo (202.032 nm)	0.0177 (ppm)	1.69	0.0177 (ppm)	202.2318
2/21/2018 19:18:59	R1801334-003	Ne (588.995 nm)	1.3027 (ppm)	0.60	1.3027 (ppm)	68091.8376
2/21/2018 19:18:59	R1801334-003	Ni (230.299 nm)	0.1243 (ppm)	1.46	0.1243 (ppm)	870.3372
2/21/2018 19:18:59	R1801334-003	Pb (220.353 nm)	1.4761 o (ppm)	0.46	1.4761 (ppm)	3500.8200
2/21/2018 19:18:59	R1801334-003	Sb (217.582 nm)	0.0231 (ppm)	5.82	0.0231 (ppm)	37.3078
2/21/2018 19:18:59	R1801334-003	Se (196.026 nm)	0.0071 (ppm)	63.65	0.0071 (ppm)	6.3114
2/21/2018 19:18:59	R1801334-003	Sn (189.925 nm)	0.1683 (ppm)	1.53	0.1683 (ppm)	217.6567
2/21/2018 19:18:59	R1801334-003	Sr (216.596 nm)	0.3035 (ppm)	0.85	0.3035 (ppm)	4448.0601
2/21/2018 19:18:59	R1801334-003	Ti (336.122 nm)	1.4167 (ppm)	0.16	1.4167 (ppm)	321657.0653
2/21/2018 19:18:59	R1801334-003	Tl (351.923 nm)	0.0051 (ppm)	36.05	0.0051 (ppm)	14.9503
2/21/2018 19:18:59	R1801334-003	V (292.401 nm)	0.1319 (ppm)	0.33	0.1319 (ppm)	5226.6346
2/21/2018 19:18:59	R1801334-003	Y (360.074 nm)	0.92 (Ratio)	0.80	0.92 (Ratio)	904725.75
2/21/2018 19:18:59	R1801334-003	Y_R (360.074 nm)	0.92 (Ratio)	0.80	0.92 (Ratio)	905457.71
2/21/2018 19:18:59	R1801334-003	Zn (213.857 nm)	2.1603 (ppm)	0.45	2.1603 (ppm)	68670.3506
2/21/2018 19:22:20	R1801334-007	Ag (328.068 nm)	-0.0002 u (ppm)	52.68	-0.0002 (ppm)	-116.1231
2/21/2018 19:22:20	R1801334-007	Al (394.401 nm)	65.5845 o (ppm)	0.24	65.5845 (ppm)	936939.1694
2/21/2018 19:22:20	R1801334-007	As (188.980 nm)	0.0311 (ppm)	4.99	0.0311 (ppm)	27.1906
2/21/2018 19:22:20	R1801334-007	B (249.772 nm)	0.0794 (ppm)	0.49	0.0794 (ppm)	2560.2894
2/21/2018 19:22:20	R1801334-007	Ba (230.424 nm)	0.4069 (ppm)	0.32	0.4069 (ppm)	14501.0437
2/21/2018 19:22:20	R1801334-007	Be (313.107 nm)	0.0034 (ppm)	0.47	0.0034 (ppm)	4784.1540
2/21/2018 19:22:20	R1801334-007	Ca (227.547 nm)	472.8755 o (ppm)	0.33	472.8755 (ppm)	32529.8073
2/21/2018 19:22:20	R1801334-007	Cd (214.439 nm)	0.0067 (ppm)	3.43	0.0067 (ppm)	167.4843
2/21/2018 19:22:20	R1801334-007	Co (230.786 nm)	0.0288 (ppm)	0.98	0.0288 (ppm)	312.7445
2/21/2018 19:22:20	R1801334-007	Cr (267.716 nm)	0.0842 (ppm)	0.38	0.0842 (ppm)	4314.9027
2/21/2018 19:22:20	R1801334-007	Cu (327.395 nm)	0.1138 (ppm)	0.51	0.1138 (ppm)	7943.1186
2/21/2018 19:22:20	R1801334-007	Fe (234.350 nm)	89.5498 o (ppm)	0.67	89.5498 (ppm)	1036166.3842
2/21/2018 19:22:20	R1801334-007	K (766.491 nm)	9.2556 (ppm)	0.61	9.2556 (ppm)	34180.8078
2/21/2018 19:22:20	R1801334-007	Mg (279.078 nm)	260.7345 o (ppm)	0.27	260.7345 (ppm)	555686.5075
2/21/2018 19:22:20	R1801334-007	Mn (257.610 nm)	4.0660 o (ppm)	0.48	4.0660 (ppm)	1347073.0115
2/21/2018 19:22:20	R1801334-007	Mo (202.032 nm)	0.0047 (ppm)	2.57	0.0047 (ppm)	59.2109
2/21/2018 19:22:20	R1801334-007	Na (588.995 nm)	1.6954 (ppm)	0.70	1.6954 (ppm)	89905.4424
2/21/2018 19:22:20	R1801334-007	Ni (230.299 nm)	0.0704 (ppm)	1.44	0.0704 (ppm)	483.3619
2/21/2018 19:22:20	R1801334-007	Pb (220.353 nm)	0.1987 (ppm)	0.96	0.1987 (ppm)	475.3182
2/21/2018 19:22:20	R1801334-007	Sb (217.582 nm)	0.0050 (ppm)	36.86	0.0050 (ppm)	7.7717
2/21/2018 19:22:20	R1801334-007	Se (196.026 nm)	0.0062 (ppm)	65.33	0.0062 (ppm)	5.4065
2/21/2018 19:22:20	R1801334-007	Sn (189.925 nm)	0.0249 (ppm)	11.19	0.0249 (ppm)	31.7377
2/21/2018 19:22:20	R1801334-007	Sr (216.596 nm)	0.2650 (ppm)	0.69	0.2650 (ppm)	3883.1772
2/21/2018 19:22:20	R1801334-007	Ti (336.122 nm)	0.9266 (ppm)	0.23	0.9266 (ppm)	210212.2422
2/21/2018 19:22:20	R1801334-007	Tl (351.923 nm)	0.0083 (ppm)	7.52	0.0083 (ppm)	24.8580
2/21/2018 19:22:20	R1801334-007	V (292.401 nm)	0.1371 (ppm)	0.34	0.1371 (ppm)	5427.5765
2/21/2018 19:22:20	R1801334-007	Y (360.074 nm)	0.94 (Ratio)	0.79	0.94 (Ratio)	928627.42
2/21/2018 19:22:20	R1801334-007	Y_R (360.074 nm)	0.95 (Ratio)	0.79	0.95 (Ratio)	929434.24

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:22:20	R1801334-007	Zn (213.857 nm)	3.8909 o (ppm)	0.98	3.8909 (ppm)	123700.7595
2/21/2018 19:25:41	R1801334-014	Ag (328.068 nm)	0.0003 (ppm)	4.60	0.0003 (ppm)	-78.7028
2/21/2018 19:25:41	R1801334-014	Al (394.401 nm)	36.9645 o (ppm)	0.27	36.9645 (ppm)	528113.4438
2/21/2018 19:25:41	R1801334-014	As (188.980 nm)	0.0523 (ppm)	3.14	0.0523 (ppm)	48.0653
2/21/2018 19:25:41	R1801334-014	B (249.772 nm)	0.1224 (ppm)	0.76	0.1224 (ppm)	3905.4046
2/21/2018 19:25:41	R1801334-014	Ba (230.424 nm)	0.2188 (ppm)	0.67	0.2188 (ppm)	7799.7262
2/21/2018 19:25:41	R1801334-014	Be (313.107 nm)	0.0020 (ppm)	0.39	0.0020 (ppm)	2508.6677
2/21/2018 19:25:41	R1801334-014	Ca (227.547 nm)	55.0631 o (ppm)	0.46	55.0631 (ppm)	3794.6972
2/21/2018 19:25:41	R1801334-014	Cd (214.439 nm)	0.0122 (ppm)	1.09	0.0122 (ppm)	293.0583
2/21/2018 19:25:41	R1801334-014	Co (230.786 nm)	0.0287 (ppm)	3.62	0.0287 (ppm)	311.1884
2/21/2018 19:25:41	R1801334-014	Cr (267.716 nm)	0.1252 (ppm)	0.34	0.1252 (ppm)	6423.7565
2/21/2018 19:25:41	R1801334-014	Cu (327.395 nm)	2.9667 o (ppm)	0.48	2.9667 (ppm)	206350.5688
2/21/2018 19:25:41	R1801334-014	Fe (234.350 nm)	244.2397 o (ppm)	0.29	244.2397 (ppm)	2825992.3551
2/21/2018 19:25:41	R1801334-014	K (766.491 nm)	4.2350 (ppm)	0.60	4.2350 (ppm)	15632.7995
2/21/2018 19:25:41	R1801334-014	Mg (279.078 nm)	33.7399 (ppm)	0.35	33.7399 (ppm)	71903.3933
2/21/2018 19:25:41	R1801334-014	Mn (257.610 nm)	4.3010 o (ppm)	0.17	4.3010 (ppm)	1424901.0618
2/21/2018 19:25:41	R1801334-014	Mo (202.032 nm)	0.2183 (ppm)	0.49	0.2183 (ppm)	2421.5032
2/21/2018 19:25:41	R1801334-014	Na (588.995 nm)	0.6547 (ppm)	0.87	0.6547 (ppm)	32090.2943
2/21/2018 19:25:41	R1801334-014	Ni (230.299 nm)	0.7194 (ppm)	0.21	0.7194 (ppm)	5141.2132
2/21/2018 19:25:41	R1801334-014	Pb (220.353 nm)	0.4081 (ppm)	0.54	0.4081 (ppm)	971.2165
2/21/2018 19:25:41	R1801334-014	Sb (217.582 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6337
2/21/2018 19:25:41	R1801334-014	Se (196.026 nm)	0.0073 (ppm)	89.19	0.0073 (ppm)	6.5716
2/21/2018 19:25:41	R1801334-014	Sn (189.925 nm)	0.1202 (ppm)	2.19	0.1202 (ppm)	155.2567
2/21/2018 19:25:41	R1801334-014	Sr (216.596 nm)	0.1054 (ppm)	0.29	0.1054 (ppm)	1543.1590
2/21/2018 19:25:41	R1801334-014	Ti (336.122 nm)	0.8637 (ppm)	0.13	0.8637 (ppm)	195919.1701
2/21/2018 19:25:41	R1801334-014	Tl (351.923 nm)	-0.0089 u (ppm)	13.76	-0.0089 (ppm)	-28.3132
2/21/2018 19:25:41	R1801334-014	V (292.401 nm)	0.1547 (ppm)	0.21	0.1547 (ppm)	6114.0813
2/21/2018 19:25:41	R1801334-014	Y (360.074 nm)	0.98 (Ratio)	0.81	0.98 (Ratio)	963008.00
2/21/2018 19:25:41	R1801334-014	Y_R (360.074 nm)	0.98 (Ratio)	0.81	0.98 (Ratio)	963819.86
2/21/2018 19:25:41	R1801334-014	Zn (213.857 nm)	2.9467 o (ppm)	0.69	2.9467 (ppm)	93677.4664
2/21/2018 19:29:02	R1801334-014S	Ag (328.068 nm)	0.0478 (ppm)	0.13	0.0478 (ppm)	3633.2028
2/21/2018 19:29:02	R1801334-014S	Al (394.401 nm)	42.7870 o (ppm)	0.43	42.7870 (ppm)	611286.0555
2/21/2018 19:29:02	R1801334-014S	As (188.980 nm)	0.0868 (ppm)	2.64	0.0868 (ppm)	81.9171
2/21/2018 19:29:02	R1801334-014S	B (249.772 nm)	0.9815 (ppm)	0.26	0.9815 (ppm)	30797.9434
2/21/2018 19:29:02	R1801334-014S	Ba (230.424 nm)	2.2361 (ppm)	0.09	2.2361 (ppm)	79659.6453
2/21/2018 19:29:02	R1801334-014S	Be (313.107 nm)	0.0487 (ppm)	0.03	0.0487 (ppm)	76475.1233
2/21/2018 19:29:02	R1801334-014S	Ca (227.547 nm)	63.9995 o (ppm)	0.44	63.9995 (ppm)	4409.2990
2/21/2018 19:29:02	R1801334-014S	Cd (214.439 nm)	0.0588 (ppm)	0.13	0.0588 (ppm)	1355.8175
2/21/2018 19:29:02	R1801334-014S	Co (230.786 nm)	0.5083 (ppm)	0.10	0.5083 (ppm)	5607.9129
2/21/2018 19:29:02	R1801334-014S	Cr (267.716 nm)	0.3128 (ppm)	0.16	0.3128 (ppm)	16056.1860
2/21/2018 19:29:02	R1801334-014S	Cu (327.395 nm)	3.3295 o (ppm)	0.45	3.3295 (ppm)	231579.8657
2/21/2018 19:29:02	R1801334-014S	Fe (234.350 nm)	207.9156 o (ppm)	0.18	207.9156 (ppm)	2405707.4069
2/21/2018 19:29:02	R1801334-014S	K (766.491 nm)	23.5076 (ppm)	0.55	23.5076 (ppm)	86833.3640
2/21/2018 19:29:02	R1801334-014S	Mg (279.078 nm)	36.3441 (ppm)	0.11	36.3441 (ppm)	77453.4762
2/21/2018 19:29:02	R1801334-014S	Mn (257.610 nm)	4.5138 o (ppm)	0.37	4.5138 (ppm)	1495422.4072
2/21/2018 19:29:02	R1801334-014S	Mo (202.032 nm)	0.5235 (ppm)	0.20	0.5235 (ppm)	5796.1798
2/21/2018 19:29:02	R1801334-014S	Na (588.995 nm)	20.2337 (ppm)	0.89	20.2337 (ppm)	1119833.4332
2/21/2018 19:29:02	R1801334-014S	Ni (230.299 nm)	1.0215 (ppm)	0.23	1.0215 (ppm)	7309.4437
2/21/2018 19:29:02	R1801334-014S	Pb (220.353 nm)	0.9016 (ppm)	0.08	0.9016 (ppm)	2140.1195
2/21/2018 19:29:02	R1801334-014S	Sb (217.582 nm)	0.3999 (ppm)	1.08	0.3999 (ppm)	651.2702
2/21/2018 19:29:02	R1801334-014S	Se (196.026 nm)	0.8991 (ppm)	0.53	0.8991 (ppm)	905.3598

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:29:02	R1801334-014S	Sn (189.925 nm)	4.8100 (ppm)	0.37	4.8100 (ppm)	6236.4964
2/21/2018 19:29:02	R1801334-014S	Sr (216.596 nm)	2.0456 (ppm)	0.13	2.0456 (ppm)	29990.0927
2/21/2018 19:29:02	R1801334-014S	Ti (336.122 nm)	1.5920 (ppm)	0.20	1.5920 (ppm)	361519.6789
2/21/2018 19:29:02	R1801334-014S	Ti (351.923 nm)	1.8594 (ppm)	0.41	1.8594 (ppm)	5757.3463
2/21/2018 19:29:02	R1801334-014S	V (292.401 nm)	0.6370 (ppm)	0.03	0.6370 (ppm)	24901.6312
2/21/2018 19:29:02	R1801334-014S	Y (360.074 nm)	0.97 (Ratio)	1.01	0.97 (Ratio)	953870.05
2/21/2018 19:29:02	R1801334-014S	Y_R (360.074 nm)	0.97 (Ratio)	1.01	0.97 (Ratio)	954745.14
2/21/2018 19:29:02	R1801334-014S	Zn (213.857 nm)	3.6106 o (ppm)	0.17	3.6106 (ppm)	114789.5759
2/21/2018 19:32:22	R1801334-014SD	Ag (328.068 nm)	0.0486 (ppm) †	0.06	0.0486 (ppm)	3696.4185
2/21/2018 19:32:22	R1801334-014SD	Al (394.401 nm)	46.7347 o (ppm)	0.17	46.7347 (ppm)	667676.8340
2/21/2018 19:32:22	R1801334-014SD	As (188.980 nm)	0.0878 (ppm) †	2.89	0.0878 (ppm)	82.8883
2/21/2018 19:32:22	R1801334-014SD	B (249.772 nm)	0.9944 (ppm)	0.38	0.9944 (ppm)	31201.1335
2/21/2018 19:32:22	R1801334-014SD	Ba (230.424 nm)	2.2519 (ppm)	0.25	2.2519 (ppm)	80221.1530
2/21/2018 19:32:22	R1801334-014SD	Be (313.107 nm)	0.0492 (ppm)	0.38	0.0492 (ppm)	77197.2383
2/21/2018 19:32:22	R1801334-014SD	Ca (227.547 nm)	93.5611 o (ppm)	0.28	93.5611 (ppm)	6442.3986
2/21/2018 19:32:22	R1801334-014SD	Cd (214.439 nm)	0.0591 (ppm)	1.07	0.0591 (ppm)	1362.8477
2/21/2018 19:32:22	R1801334-014SD	Co (230.786 nm)	0.5087 (ppm)	0.59	0.5087 (ppm)	5612.5135
2/21/2018 19:32:22	R1801334-014SD	Cr (267.716 nm)	0.3190 (ppm) *	0.52	0.3190 (ppm)	16378.0212
2/21/2018 19:32:22	R1801334-014SD	Cu (327.395 nm)	4.1180 o (ppm)	0.14	4.1180 (ppm)	286421.2025
2/21/2018 19:32:22	R1801334-014SD	Fe (234.350 nm)	213.4756 o (ppm)	0.44	213.4756 (ppm)	2470038.2765
2/21/2018 19:32:22	R1801334-014SD	K (766.491 nm)	24.3861 (ppm)	0.41	24.3861 (ppm)	90078.8623
2/21/2018 19:32:22	R1801334-014SD	Mg (279.078 nm)	49.4441 (ppm)	0.44	49.4441 (ppm)	105372.9387
2/21/2018 19:32:22	R1801334-014SD	Mn (257.610 nm)	5.2409 o (ppm)	0.18	5.2409 (ppm)	1736307.6226
2/21/2018 19:32:22	R1801334-014SD	Mo (202.032 nm)	0.5940 (ppm)	0.36	0.5940 (ppm)	6575.6588
2/21/2018 19:32:22	R1801334-014SD	Na (588.995 nm)	20.7593 (ppm)	0.69	20.7593 (ppm)	1149035.9750
2/21/2018 19:32:22	R1801334-014SD	Ni (230.299 nm)	1.3422 (ppm)	0.63	1.3422 (ppm)	9611.7740
2/21/2018 19:32:22	R1801334-014SD	Pb (220.353 nm)	0.8481 (ppm)	0.45	0.8481 (ppm)	2013.3235
2/21/2018 19:32:22	R1801334-014SD	Sb (217.582 nm)	0.3984 (ppm)	0.99	0.3984 (ppm)	648.7925
2/21/2018 19:32:22	R1801334-014SD	Se (196.026 nm)	0.9093 (ppm)	0.36	0.9093 (ppm)	915.5881
2/21/2018 19:32:22	R1801334-014SD	Sn (189.925 nm)	4.7941 (ppm)	0.91	4.7941 (ppm)	6215.9225
2/21/2018 19:32:22	R1801334-014SD	Sr (216.596 nm)	2.0605 (ppm)	0.70	2.0605 (ppm)	30207.5908
2/21/2018 19:32:22	R1801334-014SD	Ti (336.122 nm)	1.3976 (ppm)	0.18	1.3976 (ppm)	317307.1339
2/21/2018 19:32:22	R1801334-014SD	Ti (351.923 nm)	1.8935 (ppm)	0.24	1.8935 (ppm)	5862.9958
2/21/2018 19:32:22	R1801334-014SD	V (292.401 nm)	0.6464 (ppm)	0.28	0.6464 (ppm)	25267.9717
2/21/2018 19:32:22	R1801334-014SD	Y (360.074 nm)	0.96 (Ratio)	0.75	0.96 (Ratio)	946260.70
2/21/2018 19:32:22	R1801334-014SD	Y_R (360.074 nm)	0.96 (Ratio)	0.75	0.96 (Ratio)	947159.68
2/21/2018 19:32:22	R1801334-014SD	Zn (213.857 nm)	3.6157 o (ppm)	0.21	3.6157 (ppm)	114950.2095
2/21/2018 19:35:43	R1801334-014A	Ag (328.068 nm)	0.0430 (ppm)	0.98	0.0430 (ppm)	3259.8982
2/21/2018 19:35:43	R1801334-014A	Al (394.401 nm)	38.1824 o (ppm)	0.62	38.1824 (ppm)	545510.7315
2/21/2018 19:35:43	R1801334-014A	As (188.980 nm)	0.0820 (ppm)	6.22	0.0820 (ppm)	77.1885
2/21/2018 19:35:43	R1801334-014A	B (249.772 nm)	0.9929 (ppm)	0.85	0.9929 (ppm)	31155.7120
2/21/2018 19:35:43	R1801334-014A	Ba (230.424 nm)	2.1543 (ppm)	1.01	2.1543 (ppm)	76745.2736
2/21/2018 19:35:43	R1801334-014A	Be (313.107 nm)	0.0469 (ppm)	0.91	0.0469 (ppm)	73650.4647
2/21/2018 19:35:43	R1801334-014A	Ca (227.547 nm)	55.5994 o (ppm)	0.75	55.5994 (ppm)	3831.5816
2/21/2018 19:35:43	R1801334-014A	Cd (214.439 nm)	0.0574 (ppm)	0.84	0.0574 (ppm)	1324.0783
2/21/2018 19:35:43	R1801334-014A	Co (230.786 nm)	0.4919 (ppm)	1.04	0.4919 (ppm)	5426.8212
2/21/2018 19:35:43	R1801334-014A	Cr (267.716 nm)	0.3122 (ppm)	1.09	0.3122 (ppm)	16026.7542
2/21/2018 19:35:43	R1801334-014A	Cu (327.395 nm)	3.1128 o (ppm)	0.38	3.1128 (ppm)	216510.3767
2/21/2018 19:35:43	R1801334-014A	Fe (234.350 nm)	237.0235 o (ppm)	1.36	237.0235 (ppm)	2742497.2600
2/21/2018 19:35:43	R1801334-014A	K (766.491 nm)	23.0233 (ppm)	0.38	23.0233 (ppm)	85044.3015
2/21/2018 19:35:43	R1801334-014A	Mg (279.078 nm)	34.1984 (ppm)	0.92	34.1984 (ppm)	72880.5676

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:35:43	R1801334-014A	Mn (257.610 nm)	4.6014 o (ppm)	0.90	4.6014 (ppm)	1524437.1708
2/21/2018 19:35:43	R1801334-014A	Mo (202.032 nm)	0.6744 (ppm)	0.88	0.6744 (ppm)	7465.8313
2/21/2018 19:35:43	R1801334-014A	Na (588.995 nm)	19.5239 (ppm)	0.24	19.5239 (ppm)	1080402.9659
2/21/2018 19:35:43	R1801334-014A	Ni (230.299 nm)	1.1411 (ppm)	1.04	1.1411 (ppm)	8168.3458
2/21/2018 19:35:43	R1801334-014A	Pb (220.353 nm)	0.8386 (ppm)	1.33	0.8386 (ppm)	1990.8583
2/21/2018 19:35:43	R1801334-014A	Sb (217.582 nm)	0.4541 (ppm)	0.11	0.4541 (ppm)	739.5781
2/21/2018 19:35:43	R1801334-014A	Se (196.026 nm)	0.9527 (ppm)	0.94	0.9527 (ppm)	959.3387
2/21/2018 19:35:43	R1801334-014A	Sn (189.925 nm)	4.7817 (ppm)	1.21	4.7817 (ppm)	6199.8915
2/21/2018 19:35:43	R1801334-014A	Sr (216.596 nm)	2.0797 (ppm)	1.28	2.0797 (ppm)	30489.7383
2/21/2018 19:35:43	R1801334-014A	Ti (336.122 nm)	1.3141 (ppm)	0.72	1.3141 (ppm)	298324.6183
2/21/2018 19:35:43	R1801334-014A	Ti (351.923 nm)	1.7873 (ppm)	0.22	1.7873 (ppm)	5534.0830
2/21/2018 19:35:43	R1801334-014A	V (292.401 nm)	0.6138 (ppm)	0.88	0.6138 (ppm)	23997.5669
2/21/2018 19:35:43	R1801334-014A	Y (360.074 nm)	0.98 (Ratio)	0.38	0.98 (Ratio)	959162.79
2/21/2018 19:35:43	R1801334-014A	Y_R (360.074 nm)	0.98 (Ratio)	0.38	0.98 (Ratio)	960096.88
2/21/2018 19:35:43	R1801334-014A	Zn (213.857 nm)	3.3015 o (ppm)	1.57	3.3015 (ppm)	104958.9183
2/21/2018 19:39:03	Continuing Calibration Verification	Ag (328.068 nm)	0.4862 (ppm)	0.07	0.4862 (ppm)	37913.2481
2/21/2018 19:39:03	Continuing Calibration Verification	Al (394.401 nm)	9.6109 (ppm)	0.27	9.6109 (ppm)	137377.5588
2/21/2018 19:39:03	Continuing Calibration Verification	As (188.980 nm)	0.9400 (ppm)	0.80	0.9400 (ppm)	919.9312
2/21/2018 19:39:03	Continuing Calibration Verification	B (249.772 nm)	2.3958 (ppm)	0.15	2.3958 (ppm)	75071.0606
2/21/2018 19:39:03	Continuing Calibration Verification	Ba (230.424 nm)	10.3348 (ppm)	0.43	10.3348 (ppm)	368154.9397
2/21/2018 19:39:03	Continuing Calibration Verification	Be (313.107 nm)	0.2494 (ppm)	0.21	0.2494 (ppm)	393870.5007
2/21/2018 19:39:03	Continuing Calibration Verification	Ca (227.547 nm)	23.9126 (ppm)	0.50	23.9126 (ppm)	1652.3168
2/21/2018 19:39:03	Continuing Calibration Verification	Cd (214.439 nm)	0.4891 (ppm)	0.31	0.4891 (ppm)	11165.4815
2/21/2018 19:39:03	Continuing Calibration Verification	Co (230.786 nm)	2.5341 (ppm)	0.22	2.5341 (ppm)	27978.6227
2/21/2018 19:39:03	Continuing Calibration Verification	Cr (267.716 nm)	0.5175 (ppm)	0.12	0.5175 (ppm)	26573.9500
2/21/2018 19:39:03	Continuing Calibration Verification	Cu (327.395 nm)	1.1971 (ppm)	0.28	1.1971 (ppm)	83282.1936
2/21/2018 19:39:03	Continuing Calibration Verification	Fe (234.350 nm)	5.0291 (ppm)	0.15	5.0291 (ppm)	58227.0312
2/21/2018 19:39:03	Continuing Calibration Verification	K (766.491 nm)	24.4394 (ppm)	0.43	24.4394 (ppm)	90275.9511
2/21/2018 19:39:03	Continuing Calibration Verification	Mg (279.078 nm)	24.7323 (ppm)	0.15	24.7323 (ppm)	52705.8184
2/21/2018 19:39:03	Continuing Calibration Verification	Mn (257.610 nm)	0.7619 (ppm)	0.18	0.7619 (ppm)	252400.6040
2/21/2018 19:39:03	Continuing Calibration Verification	Mo (202.032 nm)	2.4100 (ppm)	0.19	2.4100 (ppm)	26660.6263
2/21/2018 19:39:03	Continuing Calibration Verification	Na (588.995 nm)	24.3142 (ppm)	0.57	24.3142 (ppm)	1346537.2407
2/21/2018 19:39:03	Continuing Calibration Verification	Ni (230.299 nm)	2.0369 (ppm)	0.16	2.0369 (ppm)	14597.4558
2/21/2018 19:39:03	Continuing Calibration Verification	Pb (220.353 nm)	0.4884 (ppm)	0.14	0.4884 (ppm)	1161.5726
2/21/2018 19:39:03	Continuing Calibration Verification	Sb (217.582 nm)	4.7739 (ppm)	0.28	4.7739 (ppm)	7777.9508
2/21/2018 19:39:03	Continuing Calibration Verification	Se (196.026 nm)	0.4705 (ppm)	0.45	0.4705 (ppm)	473.3527
2/21/2018 19:39:03	Continuing Calibration Verification	Sn (189.925 nm)	4.9505 (ppm)	0.32	4.9505 (ppm)	6418.7341
2/21/2018 19:39:03	Continuing Calibration Verification	Sr (216.596 nm)	2.5163 (ppm)	0.31	2.5163 (ppm)	36890.1552
2/21/2018 19:39:03	Continuing Calibration Verification	Ti (336.122 nm)	2.4932 (ppm)	0.04	2.4932 (ppm)	566420.6068
2/21/2018 19:39:03	Continuing Calibration Verification	Ti (351.923 nm)	0.9868 (ppm)	0.33	0.9868 (ppm)	3055.2188
2/21/2018 19:39:03	Continuing Calibration Verification	V (292.401 nm)	2.4846 (ppm)	0.17	2.4846 (ppm)	98867.8681
2/21/2018 19:39:03	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.92	0.97 (Ratio)	955468.57
2/21/2018 19:39:03	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.92	0.97 (Ratio)	956409.97
2/21/2018 19:39:03	Continuing Calibration Verification	Zn (213.857 nm)	0.9784 (ppm)	0.14	0.9784 (ppm)	31085.2009
2/21/2018 19:42:24	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	43.14	-0.0001 (ppm)	-112.7652
2/21/2018 19:42:24	Continuing Calibration Blank	Al (394.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	91.6382
2/21/2018 19:42:24	Continuing Calibration Blank	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.5525
2/21/2018 19:42:24	Continuing Calibration Blank	B (249.772 nm)	0.0023 (ppm)	9.67	0.0023 (ppm)	145.0197
2/21/2018 19:42:24	Continuing Calibration Blank	Ba (230.424 nm)	0.0012 (ppm)	6.69	0.0012 (ppm)	47.3450
2/21/2018 19:42:24	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	12.65	0.0001 (ppm)	-499.7013
2/21/2018 19:42:24	Continuing Calibration Blank	Ca (227.547 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	7.7701

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:42:24	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	15.72	0.0001 (ppm)	17.5693
2/21/2018 19:42:24	Continuing Calibration Blank	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.3273
2/21/2018 19:42:24	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	58.42	0.0000 (ppm)	-7.3807
2/21/2018 19:42:24	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	76.69	0.0001 (ppm)	34.8054
2/21/2018 19:42:24	Continuing Calibration Blank	Fe (234.350 nm)	0.0006 (ppm)	17.72	0.0006 (ppm)	45.3721
2/21/2018 19:42:24	Continuing Calibration Blank	K (766.491 nm)	0.0454 (ppm)	8.92	0.0454 (ppm)	154.6865
2/21/2018 19:42:24	Continuing Calibration Blank	Mg (279.078 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-2.2192
2/21/2018 19:42:24	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	9.47	0.0001 (ppm)	32.1576
2/21/2018 19:42:24	Continuing Calibration Blank	Mo (202.032 nm)	0.0017 (ppm)	17.88	0.0017 (ppm)	25.7122
2/21/2018 19:42:24	Continuing Calibration Blank	Na (588.995 nm)	0.0073 (ppm)	23.52	0.0073 (ppm)	-3875.3494
2/21/2018 19:42:24	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.4993
2/21/2018 19:42:24	Continuing Calibration Blank	Pb (220.353 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	5.8520
2/21/2018 19:42:24	Continuing Calibration Blank	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.3557
2/21/2018 19:42:24	Continuing Calibration Blank	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.5208
2/21/2018 19:42:24	Continuing Calibration Blank	Sn (189.925 nm)	0.0018 (ppm)	67.67	0.0018 (ppm)	1.7578
2/21/2018 19:42:24	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	15.20	0.0002 (ppm)	1.2377
2/21/2018 19:42:24	Continuing Calibration Blank	Ti (336.122 nm)	0.0009 (ppm)	3.94	0.0009 (ppm)	-256.5804
2/21/2018 19:42:24	Continuing Calibration Blank	Tl (351.923 nm)	0.0037 (ppm)	30.90	0.0037 (ppm)	10.5568
2/21/2018 19:42:24	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	49.69	0.0004 (ppm)	104.1968
2/21/2018 19:42:24	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.87	1.02 (Ratio)	1005607.78
2/21/2018 19:42:24	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.87	1.02 (Ratio)	1006553.27
2/21/2018 19:42:24	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-27.2555
2/21/2018 19:45:44	R1801334-014L	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-110.3761
2/21/2018 19:45:44	R1801334-014L	Al (394.401 nm)	6.8140 (ppm)	1.81	6.8140 (ppm)	97424.9615
2/21/2018 19:45:44	R1801334-014L	As (188.980 nm)	0.0119 (ppm)	11.50	0.0119 (ppm)	8.3559
2/21/2018 19:45:44	R1801334-014L	B (249.772 nm)	0.0264 (ppm)	0.87	0.0264 (ppm)	901.0427
2/21/2018 19:45:44	R1801334-014L	Ba (230.424 nm)	0.0453 (ppm)	1.21	0.0453 (ppm)	1619.3858
2/21/2018 19:45:44	R1801334-014L	Be (313.107 nm)	0.0004 (ppm)	1.64	0.0004 (ppm)	83.3345
2/21/2018 19:45:44	R1801334-014L	Ca (227.547 nm)	10.5091 (ppm)	2.08	10.5091 (ppm)	730.4873
2/21/2018 19:45:44	R1801334-014L	Cd (214.439 nm)	0.0026 (ppm)	4.35	0.0026 (ppm)	75.0564
2/21/2018 19:45:44	R1801334-014L	Co (230.786 nm)	0.0062 (ppm)	2.68	0.0062 (ppm)	62.6908
2/21/2018 19:45:44	R1801334-014L	Cr (267.716 nm)	0.0257 (ppm)	1.39	0.0257 (ppm)	1310.4068
2/21/2018 19:45:44	R1801334-014L	Cu (327.395 nm)	0.5736 (ppm)	1.57	0.5736 (ppm)	39918.7163
2/21/2018 19:45:44	R1801334-014L	Fe (234.350 nm)	57.2114 o (ppm)	1.34	57.2114 (ppm)	661998.0013
2/21/2018 19:45:44	R1801334-014L	K (766.491 nm)	0.8116 (ppm)	2.01	0.8116 (ppm)	2985.5449
2/21/2018 19:45:44	R1801334-014L	Mg (279.078 nm)	6.9562 (ppm)	1.43	6.9562 (ppm)	14820.5556
2/21/2018 19:45:44	R1801334-014L	Mn (257.610 nm)	0.9053 (ppm)	1.40	0.9053 (ppm)	299913.2671
2/21/2018 19:45:44	R1801334-014L	Mo (202.032 nm)	0.0442 (ppm)	0.51	0.0442 (ppm)	495.4712
2/21/2018 19:45:44	R1801334-014L	Na (588.995 nm)	0.1275 (ppm)	2.39	0.1275 (ppm)	2799.0066
2/21/2018 19:45:44	R1801334-014L	Ni (230.299 nm)	0.1495 (ppm)	1.20	0.1495 (ppm)	1050.9577
2/21/2018 19:45:44	R1801334-014L	Pb (220.353 nm)	0.0853 (ppm)	1.19	0.0853 (ppm)	206.7807
2/21/2018 19:45:44	R1801334-014L	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.0376
2/21/2018 19:45:44	R1801334-014L	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.9421
2/21/2018 19:45:44	R1801334-014L	Sn (189.925 nm)	0.0262 (ppm)	4.09	0.0262 (ppm)	33.3295
2/21/2018 19:45:44	R1801334-014L	Sr (216.596 nm)	0.0215 (ppm)	0.97	0.0215 (ppm)	313.3197
2/21/2018 19:45:44	R1801334-014L	Ti (336.122 nm)	0.1733 (ppm)	1.51	0.1733 (ppm)	38932.0609
2/21/2018 19:45:44	R1801334-014L	Tl (351.923 nm)	-0.0008 u (ppm)	29.85	-0.0008 (ppm)	-3.3163
2/21/2018 19:45:44	R1801334-014L	V (292.401 nm)	0.0313 (ppm)	1.24	0.0313 (ppm)	1307.0364
2/21/2018 19:45:44	R1801334-014L	Y (360.074 nm)	1.01 (Ratio)	0.93	1.01 (Ratio)	994795.23
2/21/2018 19:45:44	R1801334-014L	Y_R (360.074 nm)	1.01 (Ratio)	0.93	1.01 (Ratio)	995819.50
2/21/2018 19:45:44	R1801334-014L	Zn (213.857 nm)	0.6114 (ppm)	1.84	0.6114 (ppm)	19415.3220

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:49:05	R1801339-004	Ag (328.068 nm)	0.0061 (ppm)	0.38	0.0061 (ppm)	373.7722
2/21/2018 19:49:05	R1801339-004	Al (394.401 nm)	6.3935 (ppm)	0.44	6.3935 (ppm)	91418.1789
2/21/2018 19:49:05	R1801339-004	As (188.980 nm)	0.0087 (ppm)	22.94	0.0087 (ppm)	5.1958
2/21/2018 19:49:05	R1801339-004	B (249.772 nm)	0.0366 (ppm)	0.50	0.0366 (ppm)	1218.8963
2/21/2018 19:49:05	R1801339-004	Ba (230.424 nm)	0.6441 (ppm)	0.83	0.6441 (ppm)	22948.1077
2/21/2018 19:49:05	R1801339-004	Be (313.107 nm)	0.0003 (ppm)	1.81	0.0003 (ppm)	-140.2867
2/21/2018 19:49:05	R1801339-004	Ca (227.547 nm)	95.7106 o (ppm)	0.64	95.7106 (ppm)	6590.2376
2/21/2018 19:49:05	R1801339-004	Cd (214.439 nm)	0.0026 (ppm)	4.56	0.0026 (ppm)	75.2154
2/21/2018 19:49:05	R1801339-004	Co (230.786 nm)	0.0051 (ppm)	7.54	0.0051 (ppm)	50.8495
2/21/2018 19:49:05	R1801339-004	Cr (267.716 nm)	0.0374 (ppm)	0.54	0.0374 (ppm)	1911.3502
2/21/2018 19:49:05	R1801339-004	Cu (327.395 nm)	1.6014 (ppm)	0.67	1.6014 (ppm)	111396.3136
2/21/2018 19:49:05	R1801339-004	Fe (234.350 nm)	28.2853 o (ppm)	0.28	28.2853 (ppm)	327311.2603
2/21/2018 19:49:05	R1801339-004	K (766.491 nm)	4.4560 (ppm)	0.78	4.4560 (ppm)	16449.0826
2/21/2018 19:49:05	R1801339-004	Mg (279.078 nm)	7.6540 (ppm)	0.22	7.6540 (ppm)	16307.6093
2/21/2018 19:49:05	R1801339-004	Mn (257.610 nm)	1.6890 o (ppm)	0.19	1.6890 (ppm)	559554.6926
2/21/2018 19:49:05	R1801339-004	Mo (202.032 nm)	0.0185 (ppm)	3.36	0.0185 (ppm)	211.8059
2/21/2018 19:49:05	R1801339-004	Na (588.995 nm)	2.0246 (ppm)	0.97	2.0246 (ppm)	108198.6448
2/21/2018 19:49:05	R1801339-004	Ni (230.299 nm)	0.0166 (ppm)	1.34	0.0166 (ppm)	97.1536
2/21/2018 19:49:05	R1801339-004	Pb (220.353 nm)	0.0776 (ppm)	1.71	0.0776 (ppm)	188.5670
2/21/2018 19:49:05	R1801339-004	Sb (217.582 nm)	0.0090 (ppm)	13.97	0.0090 (ppm)	14.3458
2/21/2018 19:49:05	R1801339-004	Se (196.026 nm)	0.0061 (ppm)	55.51	0.0061 (ppm)	5.3444
2/21/2018 19:49:05	R1801339-004	Sn (189.925 nm)	0.0698 (ppm)	1.59	0.0698 (ppm)	89.9780
2/21/2018 19:49:05	R1801339-004	Sr (216.596 nm)	0.3005 (ppm)	1.18	0.3005 (ppm)	4403.8205
2/21/2018 19:49:05	R1801339-004	Ti (336.122 nm)	0.1266 (ppm)	0.69	0.1266 (ppm)	28320.3845
2/21/2018 19:49:05	R1801339-004	Tl (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.5409
2/21/2018 19:49:05	R1801339-004	V (292.401 nm)	0.0176 (ppm)	1.10	0.0176 (ppm)	774.4489
2/21/2018 19:49:05	R1801339-004	Y (360.074 nm)	0.98 (Ratio)	1.00	0.98 (Ratio)	958610.09
2/21/2018 19:49:05	R1801339-004	Y_R (360.074 nm)	0.98 (Ratio)	1.00	0.98 (Ratio)	959657.05
2/21/2018 19:49:05	R1801339-004	Zn (213.857 nm)	1.3886 (ppm)	0.75	1.3886 (ppm)	44129.8139
2/21/2018 19:52:27	R1801384-005	Ag (328.068 nm)	0.0008 (ppm)	9.36	0.0008 (ppm)	-40.3174
2/21/2018 19:52:27	R1801384-005	Al (394.401 nm)	40.4493 o (ppm)	0.40	40.4493 (ppm)	577892.5973
2/21/2018 19:52:27	R1801384-005	As (188.980 nm)	0.0598 (ppm)	6.45	0.0598 (ppm)	55.3786
2/21/2018 19:52:27	R1801384-005	B (249.772 nm)	0.0624 (ppm)	0.22	0.0624 (ppm)	2026.0767
2/21/2018 19:52:27	R1801384-005	Ba (230.424 nm)	0.6067 (ppm)	0.34	0.6067 (ppm)	21615.9090
2/21/2018 19:52:27	R1801384-005	Be (313.107 nm)	0.0025 (ppm)	0.54	0.0025 (ppm)	3399.6983
2/21/2018 19:52:27	R1801384-005	Ca (227.547 nm)	167.0452 o (ppm)	0.41	167.0452 (ppm)	11496.2840
2/21/2018 19:52:27	R1801384-005	Cd (214.439 nm)	0.0025 (ppm)	6.78	0.0025 (ppm)	71.6500
2/21/2018 19:52:27	R1801384-005	Co (230.786 nm)	0.0377 (ppm)	1.27	0.0377 (ppm)	410.7907
2/21/2018 19:52:27	R1801384-005	Cr (267.716 nm)	0.0962 (ppm)	0.21	0.0962 (ppm)	4932.4345
2/21/2018 19:52:27	R1801384-005	Cu (327.395 nm)	0.2343 (ppm)	0.58	0.2343 (ppm)	16320.7215
2/21/2018 19:52:27	R1801384-005	Fe (234.350 nm)	87.5883 o (ppm)	0.27	87.5883 (ppm)	1013470.3917
2/21/2018 19:52:27	R1801384-005	K (766.491 nm)	5.9986 (ppm)	0.61	5.9986 (ppm)	22148.3231
2/21/2018 19:52:27	R1801384-005	Mg (279.078 nm)	54.9925 (ppm)	0.02	54.9925 (ppm)	117198.0550
2/21/2018 19:52:27	R1801384-005	Mn (257.610 nm)	2.5587 o (ppm)	0.19	2.5587 (ppm)	847684.7081
2/21/2018 19:52:27	R1801384-005	Mo (202.032 nm)	0.0071 (ppm)	1.55	0.0071 (ppm)	85.2881
2/21/2018 19:52:27	R1801384-005	Na (588.995 nm)	5.5187 (ppm)	0.73	5.5187 (ppm)	302315.3028
2/21/2018 19:52:27	R1801384-005	Ni (230.299 nm)	0.0723 (ppm)	2.31	0.0723 (ppm)	497.1584
2/21/2018 19:52:27	R1801384-005	Pb (220.353 nm)	3.6175 o (ppm)	0.18	3.6175 (ppm)	8572.4477
2/21/2018 19:52:27	R1801384-005	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.6135
2/21/2018 19:52:27	R1801384-005	Se (196.026 nm)	0.0067 (ppm)	32.93	0.0067 (ppm)	5.9075
2/21/2018 19:52:27	R1801384-005	Sn (189.925 nm)	0.0762 (ppm)	1.24	0.0762 (ppm)	98.2731



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:52:27	R1801384-005	Sr (216.596 nm)	0.3165 (ppm)	0.26	0.3165 (ppm)	4638.6731
2/21/2018 19:52:27	R1801384-005	Ti (336.122 nm)	0.8928 (ppm)	0.16	0.8928 (ppm)	202537.7752
2/21/2018 19:52:27	R1801384-005	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.4442
2/21/2018 19:52:27	R1801384-005	V (292.401 nm)	0.1234 (ppm)	0.15	0.1234 (ppm)	4894.7654
2/21/2018 19:52:27	R1801384-005	Y (360.074 nm)	0.97 (Ratio)	0.97	0.97 (Ratio)	956805.40
2/21/2018 19:52:27	R1801384-005	Y_R (360.074 nm)	0.97 (Ratio)	0.97	0.97 (Ratio)	957804.47
2/21/2018 19:52:27	R1801384-005	Zn (213.857 nm)	0.8238 (ppm)	0.39	0.8238 (ppm)	26168.5568
2/21/2018 19:55:47	R1801384-009	Ag (328.068 nm)	-0.0004 u (ppm)	36.60	-0.0004 (ppm)	-135.4160
2/21/2018 19:55:47	R1801384-009	Al (394.401 nm)	79.6079 o (ppm)	0.48	79.6079 (ppm)	1137258.8459
2/21/2018 19:55:47	R1801384-009	As (188.980 nm)	0.0446 (ppm)	2.15	0.0446 (ppm)	40.5256
2/21/2018 19:55:47	R1801384-009	B (249.772 nm)	0.0860 (ppm)	0.16	0.0860 (ppm)	2767.5600
2/21/2018 19:55:47	R1801384-009	Ba (230.424 nm)	0.8759 (ppm)	0.26	0.8759 (ppm)	31206.8558
2/21/2018 19:55:47	R1801384-009	Be (313.107 nm)	0.0045 (ppm)	0.28	0.0045 (ppm)	6505.4693
2/21/2018 19:55:47	R1801384-009	Ca (227.547 nm)	16.1049 (ppm)	0.28	16.1049 (ppm)	1115.3368
2/21/2018 19:55:47	R1801384-009	Cd (214.439 nm)	0.0031 (ppm)	3.99	0.0031 (ppm)	86.6724
2/21/2018 19:55:47	R1801384-009	Co (230.786 nm)	0.0571 (ppm)	1.18	0.0571 (ppm)	625.3814
2/21/2018 19:55:47	R1801384-009	Cr (267.716 nm)	0.1026 (ppm)	0.42	0.1026 (ppm)	5263.1380
2/21/2018 19:55:47	R1801384-009	Cu (327.395 nm)	0.1320 (ppm)	0.28	0.1320 (ppm)	9204.0129
2/21/2018 19:55:47	R1801384-009	Fe (234.350 nm)	149.3494 o (ppm)	0.22	149.3494 (ppm)	1728071.7426
2/21/2018 19:55:47	R1801384-009	K (766.491 nm)	13.8231 (ppm)	0.73	13.8231 (ppm)	51054.8596
2/21/2018 19:55:47	R1801384-009	Mg (279.078 nm)	31.4675 (ppm)	0.18	31.4675 (ppm)	67060.1627
2/21/2018 19:55:47	R1801384-009	Mn (257.610 nm)	5.7294 o (ppm)	0.26	5.7294 (ppm)	1898147.9855
2/21/2018 19:55:47	R1801384-009	Mo (202.032 nm)	0.0046 (ppm)	8.39	0.0046 (ppm)	58.0379
2/21/2018 19:55:47	R1801384-009	Na (588.995 nm)	1.5097 (ppm)	0.85	1.5097 (ppm)	79590.7468
2/21/2018 19:55:47	R1801384-009	Ni (230.299 nm)	0.1105 (ppm)	0.26	0.1105 (ppm)	771.2447
2/21/2018 19:55:47	R1801384-009	Pb (220.353 nm)	0.0948 (ppm)	1.43	0.0948 (ppm)	229.3901
2/21/2018 19:55:47	R1801384-009	Sb (217.582 nm)	-0.0035 u (ppm)	31.72	-0.0035 (ppm)	-6.0153
2/21/2018 19:55:47	R1801384-009	Se (196.026 nm)	0.0054 (ppm)	20.82	0.0054 (ppm)	4.6079
2/21/2018 19:55:47	R1801384-009	Sn (189.925 nm)	0.0124 (ppm)	7.29	0.0124 (ppm)	15.5318
2/21/2018 19:55:47	R1801384-009	Sr (216.596 nm)	0.0708 (ppm)	0.70	0.0708 (ppm)	1036.0945
2/21/2018 19:55:47	R1801384-009	Ti (336.122 nm)	1.1847 (ppm)	0.25	1.1847 (ppm)	268892.6186
2/21/2018 19:55:47	R1801384-009	Tl (351.923 nm)	-0.0098 u (ppm)	16.23	-0.0098 (ppm)	-31.2677
2/21/2018 19:55:47	R1801384-009	V (292.401 nm)	0.1619 (ppm)	0.19	0.1619 (ppm)	6395.8412
2/21/2018 19:55:47	R1801384-009	Y (360.074 nm)	1.05 (Ratio)	0.90	1.05 (Ratio)	1034941.46
2/21/2018 19:55:47	R1801384-009	Y_R (360.074 nm)	1.05 (Ratio)	0.90	1.05 (Ratio)	1035927.55
2/21/2018 19:55:47	R1801384-009	Zn (213.857 nm)	0.3759 (ppm)	0.39	0.3759 (ppm)	11926.1410
2/21/2018 19:59:09	R1801384-015	Ag (328.068 nm)	0.0007 (ppm)	11.51	0.0007 (ppm)	-48.2491
2/21/2018 19:59:09	R1801384-015	Al (394.401 nm)	34.6356 o (ppm)	1.35	34.6356 (ppm)	494845.9828
2/21/2018 19:59:09	R1801384-015	As (188.980 nm)	0.0427 (ppm)	10.03	0.0427 (ppm)	38.6667
2/21/2018 19:59:09	R1801384-015	B (249.772 nm)	0.0568 (ppm)	1.73	0.0568 (ppm)	1851.5222
2/21/2018 19:59:09	R1801384-015	Ba (230.424 nm)	1.4460 (ppm)	1.10	1.4460 (ppm)	51515.1774
2/21/2018 19:59:09	R1801384-015	Be (313.107 nm)	0.0027 (ppm)	1.21	0.0027 (ppm)	3750.3889
2/21/2018 19:59:09	R1801384-015	Ca (227.547 nm)	201.5903 o (ppm)	1.32	201.5903 (ppm)	13872.1247
2/21/2018 19:59:09	R1801384-015	Cd (214.439 nm)	0.0026 (ppm)	6.94	0.0026 (ppm)	74.2742
2/21/2018 19:59:09	R1801384-015	Co (230.786 nm)	0.0420 (ppm)	2.45	0.0420 (ppm)	457.7950
2/21/2018 19:59:09	R1801384-015	Cr (267.716 nm)	0.0673 (ppm)	1.61	0.0673 (ppm)	3448.8779
2/21/2018 19:59:09	R1801384-015	Cu (327.395 nm)	0.2923 (ppm)	0.61	0.2923 (ppm)	20352.2795
2/21/2018 19:59:09	R1801384-015	Fe (234.350 nm)	69.0408 o (ppm)	1.76	69.0408 (ppm)	798868.7232
2/21/2018 19:59:09	R1801384-015	K (766.491 nm)	5.8648 (ppm)	0.95	5.8648 (ppm)	21653.8693
2/21/2018 19:59:09	R1801384-015	Mg (279.078 nm)	34.8890 (ppm)	1.46	34.8890 (ppm)	74352.2760
2/21/2018 19:59:09	R1801384-015	Mn (257.610 nm)	1.7024 o (ppm)	1.53	1.7024 (ppm)	564011.3449

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 19:59:09	R1801384-015	Mo (202.032 nm)	0.0119 (ppm)	1.93	0.0119 (ppm)	138.5636
2/21/2018 19:59:09	R1801384-015	Na (588.995 nm)	2.9628 (ppm)	1.08	2.9628 (ppm)	160322.0645
2/21/2018 19:59:09	R1801384-015	Ni (230.299 nm)	0.0868 (ppm)	0.75	0.0868 (ppm)	601.0066
2/21/2018 19:59:09	R1801384-015	Pb (220.353 nm)	3.4971 (ppm)	1.47	3.4971 (ppm)	8287.2475
2/21/2018 19:59:09	R1801384-015	Sb (217.582 nm)	0.0035 (ppm)	14.86	0.0035 (ppm)	5.4297
2/21/2018 19:59:09	R1801384-015	Se (196.026 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	-0.3030
2/21/2018 19:59:09	R1801384-015	Sn (189.925 nm)	0.0527 (ppm)	2.05	0.0527 (ppm)	67.7515
2/21/2018 19:59:09	R1801384-015	Sr (216.596 nm)	0.4647 (ppm)	1.80	0.4647 (ppm)	6811.0315
2/21/2018 19:59:09	R1801384-015	Ti (336.122 nm)	0.6675 (ppm)	1.44	0.6675 (ppm)	151307.5071
2/21/2018 19:59:09	R1801384-015	Tl (351.923 nm)	-0.0012 (ppm)	> 100.00	-0.0012 (ppm)	-4.4550
2/21/2018 19:59:09	R1801384-015	V (292.401 nm)	0.1178 (ppm)	1.48	0.1178 (ppm)	4676.4491
2/21/2018 19:59:09	R1801384-015	Y (360.074 nm)	0.98 (Ratio)	0.69	0.98 (Ratio)	960438.67
2/21/2018 19:59:09	R1801384-015	Y_R (360.074 nm)	0.98 (Ratio)	0.69	0.98 (Ratio)	961340.95
2/21/2018 19:59:09	R1801384-015	Zn (213.857 nm)	1.3193 (ppm)	1.65	1.3193 (ppm)	41926.6601
2/21/2018 20:02:30	PBW-308554	Ag (328.068 nm)	-0.0002 (ppm)	18.57	-0.0002 (ppm)	-118.3910
2/21/2018 20:02:30	PBW-308554	Al (394.401 nm)	0.0055 (ppm)	52.60	0.0055 (ppm)	167.3425
2/21/2018 20:02:30	PBW-308554	As (188.980 nm)	0.0007 (ppm)	> 100.00	0.0007 (ppm)	-2.6703
2/21/2018 20:02:30	PBW-308554	B (249.772 nm)	0.0012 (ppm)	4.79	0.0012 (ppm)	111.8584
2/21/2018 20:02:30	PBW-308554	Ba (230.424 nm)	0.0003 (ppm)	58.70	0.0003 (ppm)	16.2829
2/21/2018 20:02:30	PBW-308554	Be (313.107 nm)	0.0000 (ppm)	6.55	0.0000 (ppm)	-538.5191
2/21/2018 20:02:30	PBW-308554	Ca (227.547 nm)	0.0099 (ppm)	> 100.00	0.0099 (ppm)	8.4021
2/21/2018 20:02:30	PBW-308554	Cd (214.439 nm)	-0.0001 (ppm)	> 100.00	-0.0001 (ppm)	13.5772
2/21/2018 20:02:30	PBW-308554	Co (230.786 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-5.9316
2/21/2018 20:02:30	PBW-308554	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-8.5931
2/21/2018 20:02:30	PBW-308554	Cu (327.395 nm)	0.0001 (ppm)	28.91	0.0001 (ppm)	33.6065
2/21/2018 20:02:30	PBW-308554	Fe (234.350 nm)	0.0110 (ppm)	72.39	0.0110 (ppm)	166.1360
2/21/2018 20:02:30	PBW-308554	K (766.491 nm)	0.0147 (ppm)	33.09	0.0147 (ppm)	41.1577
2/21/2018 20:02:30	PBW-308554	Mg (279.078 nm)	0.0056 (ppm)	47.35	0.0056 (ppm)	6.9804
2/21/2018 20:02:30	PBW-308554	Mn (257.610 nm)	0.0006 (ppm)	32.66	0.0006 (ppm)	208.5367
2/21/2018 20:02:30	PBW-308554	Mo (202.032 nm)	-0.0002 (ppm)	85.25	-0.0002 (ppm)	4.5605
2/21/2018 20:02:30	PBW-308554	Na (588.995 nm)	0.0183 (ppm)	2.29	0.0183 (ppm)	-3267.5896
2/21/2018 20:02:30	PBW-308554	Ni (230.299 nm)	0.0012 (ppm)	18.06	0.0012 (ppm)	-13.1971
2/21/2018 20:02:30	PBW-308554	Pb (220.353 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	6.2705
2/21/2018 20:02:30	PBW-308554	Sb (217.582 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.1080
2/21/2018 20:02:30	PBW-308554	Se (196.026 nm)	-0.0007 (ppm)	> 100.00	-0.0007 (ppm)	-1.5256
2/21/2018 20:02:30	PBW-308554	Sn (189.925 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-0.2159
2/21/2018 20:02:30	PBW-308554	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.5265
2/21/2018 20:02:30	PBW-308554	Ti (336.122 nm)	0.0008 (ppm)	9.35	0.0008 (ppm)	-281.8524
2/21/2018 20:02:30	PBW-308554	Tl (351.923 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	1.6937
2/21/2018 20:02:30	PBW-308554	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	87.6430
2/21/2018 20:02:30	PBW-308554	Y (360.074 nm)	1.05 (Ratio)	0.40	1.05 (Ratio)	1030804.78
2/21/2018 20:02:30	PBW-308554	Y_R (360.074 nm)	1.05 (Ratio)	0.40	1.05 (Ratio)	1031626.54
2/21/2018 20:02:30	PBW-308554	Zn (213.857 nm)	0.0035 (ppm)	3.77	0.0035 (ppm)	82.7455
2/21/2018 20:05:51	LCSW-308554	Ag (328.068 nm)	0.0489 (ppm)	0.27	0.0489 (ppm)	3718.1511
2/21/2018 20:05:51	LCSW-308554	Al (394.401 nm)	1.8547 (ppm)	0.45	1.8547 (ppm)	26583.7463
2/21/2018 20:05:51	LCSW-308554	As (188.980 nm)	0.0418 (ppm)	9.73	0.0418 (ppm)	37.7407
2/21/2018 20:05:51	LCSW-308554	B (249.772 nm)	0.9555 (ppm)	0.31	0.9555 (ppm)	29984.5013
2/21/2018 20:05:51	LCSW-308554	Ba (230.424 nm)	2.0879 (ppm)	0.28	2.0879 (ppm)	74381.6494
2/21/2018 20:05:51	LCSW-308554	Be (313.107 nm)	0.0490 (ppm)	0.22	0.0490 (ppm)	76961.3624
2/21/2018 20:05:51	LCSW-308554	Ca (227.547 nm)	1.8169 (ppm)	1.04	1.8169 (ppm)	132.6794
2/21/2018 20:05:51	LCSW-308554	Cd (214.439 nm)	0.0502 (ppm)	0.72	0.0502 (ppm)	1158.9820

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:05:51	LCSW-308554	Co (230.786 nm)	0.5039 (ppm)	0.23	0.5039 (ppm)	5559.2128
2/21/2018 20:05:51	LCSW-308554	Cr (267.716 nm)	0.2032 (ppm)	0.27	0.2032 (ppm)	10427.5429
2/21/2018 20:05:51	LCSW-308554	Cu (327.395 nm)	0.2403 (ppm)	0.59	0.2403 (ppm)	16736.2235
2/21/2018 20:05:51	LCSW-308554	Fe (234.350 nm)	1.0012 (ppm)	0.30	1.0012 (ppm)	11622.7796
2/21/2018 20:05:51	LCSW-308554	K (766.491 nm)	18.8665 (ppm)	0.89	18.8665 (ppm)	69687.4896
2/21/2018 20:05:51	LCSW-308554	Mg (279.078 nm)	1.9605 (ppm)	0.27	1.9605 (ppm)	4173.4545
2/21/2018 20:05:51	LCSW-308554	Mn (257.610 nm)	0.5006 (ppm)	0.19	0.5006 (ppm)	165844.3613
2/21/2018 20:05:51	LCSW-308554	Mo (202.032 nm)	0.4893 (ppm)	0.26	0.4893 (ppm)	5418.4743
2/21/2018 20:05:51	LCSW-308554	Na (588.995 nm)	19.1622 (ppm)	1.02	19.1622 (ppm)	1060305.8500
2/21/2018 20:05:51	LCSW-308554	Ni (230.299 nm)	0.4973 (ppm)	0.26	0.4973 (ppm)	3547.2325
2/21/2018 20:05:51	LCSW-308554	Pb (220.353 nm)	0.5004 (ppm)	0.07	0.5004 (ppm)	1189.9796
2/21/2018 20:05:51	LCSW-308554	Sb (217.582 nm)	0.4608 (ppm)	0.99	0.4608 (ppm)	750.5550
2/21/2018 20:05:51	LCSW-308554	Se (196.026 nm)	1.0019 (ppm)	0.43	1.0019 (ppm)	1008.9376
2/21/2018 20:05:51	LCSW-308554	Sn (189.925 nm)	4.8570 (ppm)	0.36	4.8570 (ppm)	6297.5064
2/21/2018 20:05:51	LCSW-308554	Sr (216.596 nm)	2.0154 (ppm)	0.28	2.0154 (ppm)	29546.5870
2/21/2018 20:05:51	LCSW-308554	Ti (336.122 nm)	0.4970 (ppm)	0.36	0.4970 (ppm)	112546.5866
2/21/2018 20:05:51	LCSW-308554	Ti (351.923 nm)	1.8733 (ppm)	0.26	1.8733 (ppm)	5800.5235
2/21/2018 20:05:51	LCSW-308554	V (292.401 nm)	0.4883 (ppm)	0.28	0.4883 (ppm)	19110.1495
2/21/2018 20:05:51	LCSW-308554	Y (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	985757.37
2/21/2018 20:05:51	LCSW-308554	Y_R (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	986622.64
2/21/2018 20:05:51	LCSW-308554	Zn (213.857 nm)	0.4857 (ppm)	0.20	0.4857 (ppm)	15418.1460
2/21/2018 20:09:11	R1801227-026	Ag (328.068 nm)	-0.0002 u (ppm)	40.43	-0.0002 (ppm)	-119.0026
2/21/2018 20:09:11	R1801227-026	Al (394.401 nm)	0.0996 (ppm)	0.76	0.0996 (ppm)	1512.1119
2/21/2018 20:09:11	R1801227-026	As (188.980 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-1.5130
2/21/2018 20:09:11	R1801227-026	B (249.772 nm)	0.6351 (ppm)	0.30	0.6351 (ppm)	19954.7868
2/21/2018 20:09:11	R1801227-026	Ba (230.424 nm)	0.0171 (ppm)	0.32	0.0171 (ppm)	612.8988
2/21/2018 20:09:11	R1801227-026	Be (313.107 nm)	0.0001 (ppm)	15.18	0.0001 (ppm)	-503.0496
2/21/2018 20:09:11	R1801227-026	Ca (227.547 nm)	470.4077 o (ppm)	0.04	470.4077 (ppm)	32360.0885
2/21/2018 20:09:11	R1801227-026	Cd (214.439 nm)	0.0485 (ppm)	0.29	0.0485 (ppm)	1121.1269
2/21/2018 20:09:11	R1801227-026	Co (230.786 nm)	0.0259 (ppm)	0.90	0.0259 (ppm)	280.9549
2/21/2018 20:09:11	R1801227-026	Cr (267.716 nm)	-0.0054 u (ppm)	0.64	-0.0054 (ppm)	-285.4399
2/21/2018 20:09:11	R1801227-026	Cu (327.395 nm)	0.0016 (ppm)	8.47	0.0016 (ppm)	138.4618
2/21/2018 20:09:11	R1801227-026	Fe (234.350 nm)	1.0292 (ppm)	0.40	1.0292 (ppm)	11946.2846
2/21/2018 20:09:11	R1801227-026	K (766.491 nm)	22.0491 (ppm)	0.40	22.0491 (ppm)	81445.1092
2/21/2018 20:09:11	R1801227-026	Mg (279.078 nm)	151.4201 o (ppm)	0.45	151.4201 (ppm)	322709.6121
2/21/2018 20:09:11	R1801227-026	Mn (257.610 nm)	16.8850 o (ppm)	0.66	16.8850 (ppm)	5593953.4535
2/21/2018 20:09:11	R1801227-026	Mo (202.032 nm)	0.0003 (ppm)	75.80	0.0003 (ppm)	9.8203
2/21/2018 20:09:11	R1801227-026	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/21/2018 20:09:11	R1801227-026	Ni (230.299 nm)	0.0888 (ppm)	1.48	0.0888 (ppm)	614.9295
2/21/2018 20:09:11	R1801227-026	Pb (220.353 nm)	0.0057 (ppm)	18.30	0.0057 (ppm)	18.2978
2/21/2018 20:09:11	R1801227-026	Sb (217.582 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-2.9653
2/21/2018 20:09:11	R1801227-026	Se (196.026 nm)	0.0074 (ppm)	37.48	0.0074 (ppm)	6.6220
2/21/2018 20:09:11	R1801227-026	Sn (189.925 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-2.9131
2/21/2018 20:09:11	R1801227-026	Sr (216.596 nm)	1.3130 (ppm)	0.38	1.3130 (ppm)	19248.2591
2/21/2018 20:09:11	R1801227-026	Ti (336.122 nm)	0.0039 (ppm)	4.02	0.0039 (ppm)	419.6639
2/21/2018 20:09:11	R1801227-026	Ti (351.923 nm)	0.0163 (ppm)	8.48	0.0163 (ppm)	49.5523
2/21/2018 20:09:11	R1801227-026	V (292.401 nm)	0.0011 (ppm)	8.17	0.0011 (ppm)	130.3099
2/21/2018 20:09:11	R1801227-026	Y (360.074 nm)	0.83 (Ratio)	0.57	0.83 (Ratio)	815372.89
2/21/2018 20:09:11	R1801227-026	Y_R (360.074 nm)	0.83 (Ratio)	0.57	0.83 (Ratio)	816217.71
2/21/2018 20:09:11	R1801227-026	Zn (213.857 nm)	0.0553 (ppm)	0.51	0.0553 (ppm)	1731.0705
2/21/2018 20:12:32	R1801227-026L	Ag (328.068 nm)	-0.0002 u (ppm)	27.25	-0.0002 (ppm)	-115.3295

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:12:32	R1801227-026L	Al (394.401 nm)	0.0289 (ppm)	2.47	0.0289 (ppm)	502.6753
2/21/2018 20:12:32	R1801227-026L	As (188.980 nm)	0.0013 (ppm)	> 100.00	0.0013 (ppm)	-2.0489
2/21/2018 20:12:32	R1801227-026L	B (249.772 nm)	0.1133 (ppm)	0.72	0.1133 (ppm)	3622.0718
2/21/2018 20:12:32	R1801227-026L	Ba (230.424 nm)	0.0034 (ppm)	2.42	0.0034 (ppm)	127.4690
2/21/2018 20:12:32	R1801227-026L	Be (313.107 nm)	0.0000 (ppm)	51.89	0.0000 (ppm)	-556.6751
2/21/2018 20:12:32	R1801227-026L	Ca (227.547 nm)	79.8624 o (ppm)	0.66	79.8624 (ppm)	5500.2716
2/21/2018 20:12:32	R1801227-026L	Cd (214.439 nm)	0.0100 (ppm)	3.14	0.0100 (ppm)	243.0206
2/21/2018 20:12:32	R1801227-026L	Co (230.786 nm)	0.0052 (ppm)	1.42	0.0052 (ppm)	51.4505
2/21/2018 20:12:32	R1801227-026L	Cr (267.716 nm)	-0.0014 u (ppm)	4.46	-0.0014 (ppm)	-79.3122
2/21/2018 20:12:32	R1801227-026L	Cu (327.395 nm)	0.0002 (ppm)	58.46	0.0002 (ppm)	40.5200
2/21/2018 20:12:32	R1801227-026L	Fe (234.350 nm)	0.2055 (ppm)	0.96	0.2055 (ppm)	2416.6403
2/21/2018 20:12:32	R1801227-026L	K (766.491 nm)	3.3314 (ppm)	0.14	3.3314 (ppm)	12294.5929
2/21/2018 20:12:32	R1801227-026L	Mg (279.078 nm)	28.9011 (ppm)	0.93	28.9011 (ppm)	61590.5184
2/21/2018 20:12:32	R1801227-026L	Mn (257.610 nm)	3.5351 o (ppm)	0.79	3.5351 (ppm)	1171178.7515
2/21/2018 20:12:32	R1801227-026L	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.8752
2/21/2018 20:12:32	R1801227-026L	Na (588.995 nm)	150.3100 o (ppm)	0.17	150.3100 (ppm)	8346451.5205
2/21/2018 20:12:32	R1801227-026L	Ni (230.299 nm)	0.0176 (ppm)	4.24	0.0176 (ppm)	104.0918
2/21/2018 20:12:32	R1801227-026L	Pb (220.353 nm)	0.0014 (ppm)	86.96	0.0014 (ppm)	8.0423
2/21/2018 20:12:32	R1801227-026L	Sb (217.582 nm)	-0.0013 u (ppm)	80.55	-0.0013 (ppm)	-2.5026
2/21/2018 20:12:32	R1801227-026L	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.2173
2/21/2018 20:12:32	R1801227-026L	Sn (189.925 nm)	-0.0009 u (ppm)	35.97	-0.0009 (ppm)	-1.7663
2/21/2018 20:12:32	R1801227-026L	Sr (216.596 nm)	0.2677 (ppm)	1.49	0.2677 (ppm)	3923.4508
2/21/2018 20:12:32	R1801227-026L	Ti (336.122 nm)	0.0007 (ppm)	6.19	0.0007 (ppm)	-315.5312
2/21/2018 20:12:32	R1801227-026L	Tl (351.923 nm)	0.0044 u (ppm)	92.98	0.0044 (ppm)	12.8411
2/21/2018 20:12:32	R1801227-026L	V (292.401 nm)	0.0004 (ppm)	26.71	0.0004 (ppm)	105.2305
2/21/2018 20:12:32	R1801227-026L	Y (360.074 nm)	0.94 (Ratio)	0.71	0.94 (Ratio)	925817.48
2/21/2018 20:12:32	R1801227-026L	Y_R (360.074 nm)	0.94 (Ratio)	0.71	0.94 (Ratio)	926667.04
2/21/2018 20:12:32	R1801227-026L	Zn (213.857 nm)	0.0122 (ppm)	1.35	0.0122 (ppm)	359.8727
2/21/2018 20:15:53	Continuing Calibration Verification	Ag (328.068 nm)	0.4859 (ppm)	0.23	0.4859 (ppm)	37892.3787
2/21/2018 20:15:53	Continuing Calibration Verification	Al (394.401 nm)	9.6014 (ppm)	0.15	9.6014 (ppm)	137241.2982
2/21/2018 20:15:53	Continuing Calibration Verification	As (188.980 nm)	0.9381 (ppm)	0.73	0.9381 (ppm)	918.0089
2/21/2018 20:15:53	Continuing Calibration Verification	B (249.772 nm)	2.4033 (ppm)	0.24	2.4033 (ppm)	75306.0309
2/21/2018 20:15:53	Continuing Calibration Verification	Ba (230.424 nm)	10.3254 (ppm)	0.37	10.3254 (ppm)	367819.6097
2/21/2018 20:15:53	Continuing Calibration Verification	Be (313.107 nm)	0.2504 (ppm)	0.37	0.2504 (ppm)	395349.2341
2/21/2018 20:15:53	Continuing Calibration Verification	Ca (227.547 nm)	23.8980 (ppm)	0.08	23.8980 (ppm)	1651.3111
2/21/2018 20:15:53	Continuing Calibration Verification	Cd (214.439 nm)	0.4872 (ppm)	0.53	0.4872 (ppm)	11122.1272
2/21/2018 20:15:53	Continuing Calibration Verification	Co (230.786 nm)	2.5259 (ppm)	0.41	2.5259 (ppm)	27887.8441
2/21/2018 20:15:53	Continuing Calibration Verification	Cr (267.716 nm)	0.5181 (ppm)	0.53	0.5181 (ppm)	26606.1297
2/21/2018 20:15:53	Continuing Calibration Verification	Cu (327.395 nm)	1.2049 (ppm)	0.37	1.2049 (ppm)	83822.4447
2/21/2018 20:15:53	Continuing Calibration Verification	Fe (234.350 nm)	5.0026 (ppm)	0.41	5.0026 (ppm)	57920.5531
2/21/2018 20:15:53	Continuing Calibration Verification	K (766.491 nm)	24.5346 (ppm)	0.39	24.5346 (ppm)	90627.6842
2/21/2018 20:15:53	Continuing Calibration Verification	Mg (279.078 nm)	24.6661 (ppm)	0.40	24.6661 (ppm)	52564.8496
2/21/2018 20:15:53	Continuing Calibration Verification	Mn (257.610 nm)	0.7633 (ppm)	0.40	0.7633 (ppm)	252888.4832
2/21/2018 20:15:53	Continuing Calibration Verification	Mo (202.032 nm)	2.4080 (ppm)	0.41	2.4080 (ppm)	26638.0979
2/21/2018 20:15:53	Continuing Calibration Verification	Na (588.995 nm)	24.5893 (ppm)	0.53	24.5893 (ppm)	1361816.2049
2/21/2018 20:15:53	Continuing Calibration Verification	Ni (230.299 nm)	2.0332 (ppm)	0.44	2.0332 (ppm)	14570.9547
2/21/2018 20:15:53	Continuing Calibration Verification	Pb (220.353 nm)	0.4871 (ppm)	0.85	0.4871 (ppm)	1158.5467
2/21/2018 20:15:53	Continuing Calibration Verification	Sb (217.582 nm)	4.7531 (ppm)	0.18	4.7531 (ppm)	7744.0411
2/21/2018 20:15:53	Continuing Calibration Verification	Se (196.026 nm)	0.4668 (ppm)	0.71	0.4668 (ppm)	469.6204
2/21/2018 20:15:53	Continuing Calibration Verification	Sn (189.925 nm)	4.9025 (ppm)	0.60	4.9025 (ppm)	6356.5098
2/21/2018 20:15:53	Continuing Calibration Verification	Sr (216.596 nm)	2.5075 (ppm)	0.70	2.5075 (ppm)	36761.7307

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:15:53	Continuing Calibration Verification	Ti (336.122 nm)	2.4950 (ppm)	0.27	2.4950 (ppm)	566837.0808
2/21/2018 20:15:53	Continuing Calibration Verification	Ti (351.923 nm)	0.9829 (ppm)	0.38	0.9829 (ppm)	3042.9868
2/21/2018 20:15:53	Continuing Calibration Verification	V (292.401 nm)	2.4841 (ppm)	0.31	2.4841 (ppm)	96849.7846
2/21/2018 20:15:53	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.68	0.97 (Ratio)	956889.77
2/21/2018 20:15:53	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.68	0.97 (Ratio)	957716.38
2/21/2018 20:15:53	Continuing Calibration Verification	Zn (213.857 nm)	0.9751 (ppm)	0.36	0.9751 (ppm)	30981.4064
2/21/2018 20:19:13	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	41.58	-0.0001 (ppm)	-110.1200
2/21/2018 20:19:13	Continuing Calibration Blank	Al (394.401 nm)	0.0009 (ppm)	52.84	0.0009 (ppm)	102.1517
2/21/2018 20:19:13	Continuing Calibration Blank	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-2.1092
2/21/2018 20:19:13	Continuing Calibration Blank	B (249.772 nm)	0.0021 (ppm)	14.79	0.0021 (ppm)	139.6366
2/21/2018 20:19:13	Continuing Calibration Blank	Ba (230.424 nm)	0.0017 (ppm)	10.82	0.0017 (ppm)	66.3480
2/21/2018 20:19:13	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	17.08	0.0001 (ppm)	-490.1615
2/21/2018 20:19:13	Continuing Calibration Blank	Ca (227.547 nm)	-0.0048 u (ppm)	> 100.00	-0.0048 (ppm)	7.3905
2/21/2018 20:19:13	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	54.61	0.0001 (ppm)	18.5825
2/21/2018 20:19:13	Continuing Calibration Blank	Co (230.786 nm)	0.0005 (ppm)	58.48	0.0005 (ppm)	0.4854
2/21/2018 20:19:13	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	98.17	0.0001 (ppm)	-3.5374
2/21/2018 20:19:13	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	31.0263
2/21/2018 20:19:13	Continuing Calibration Blank	Fe (234.350 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	39.7619
2/21/2018 20:19:13	Continuing Calibration Blank	K (766.491 nm)	0.0350 (ppm)	21.70	0.0350 (ppm)	116.1563
2/21/2018 20:19:13	Continuing Calibration Blank	Mg (279.078 nm)	0.0042 (ppm)	7.32	0.0042 (ppm)	3.8767
2/21/2018 20:19:13	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	14.04	0.0001 (ppm)	50.0403
2/21/2018 20:19:13	Continuing Calibration Blank	Mo (202.032 nm)	0.0020 (ppm)	3.16	0.0020 (ppm)	28.5942
2/21/2018 20:19:13	Continuing Calibration Blank	Nb (588.995 nm)	0.0118 (ppm)	11.42	0.0118 (ppm)	-3627.6087
2/21/2018 20:19:13	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.9840
2/21/2018 20:19:13	Continuing Calibration Blank	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	3.7199
2/21/2018 20:19:13	Continuing Calibration Blank	Sb (217.582 nm)	0.0022 (ppm)	59.98	0.0022 (ppm)	3.2019
2/21/2018 20:19:13	Continuing Calibration Blank	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.1719
2/21/2018 20:19:13	Continuing Calibration Blank	Sn (189.925 nm)	0.0015 (ppm)	57.83	0.0015 (ppm)	1.3499
2/21/2018 20:19:13	Continuing Calibration Blank	Sr (216.596 nm)	0.0005 (ppm)	33.14	0.0005 (ppm)	4.7430
2/21/2018 20:19:13	Continuing Calibration Blank	Ti (336.122 nm)	0.0011 (ppm)	6.50	0.0011 (ppm)	-227.6076
2/21/2018 20:19:13	Continuing Calibration Blank	Ti (351.923 nm)	0.0025 (ppm)	53.00	0.0025 (ppm)	6.9783
2/21/2018 20:19:13	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	21.31	0.0004 (ppm)	103.7335
2/21/2018 20:19:13	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.59	1.03 (Ratio)	1011232.26
2/21/2018 20:19:13	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.59	1.03 (Ratio)	1011987.58
2/21/2018 20:19:13	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	33.53	0.0001 (ppm)	-24.4597
2/21/2018 20:22:34	Contract Required Detection Limit	Ag (328.068 nm)	0.0095 (ppm)	0.42	0.0095 (ppm)	641.5279
2/21/2018 20:22:34	Contract Required Detection Limit	Al (394.401 nm)	0.1770 (ppm)	0.36	0.1770 (ppm)	2617.2511
2/21/2018 20:22:34	Contract Required Detection Limit	As (188.980 nm)	0.0201 (ppm)	9.38	0.0201 (ppm)	16.4533
2/21/2018 20:22:34	Contract Required Detection Limit	B (249.772 nm)	0.1929 (ppm)	0.17	0.1929 (ppm)	6111.6320
2/21/2018 20:22:34	Contract Required Detection Limit	Ba (230.424 nm)	0.2087 (ppm)	0.79	0.2087 (ppm)	7440.9673
2/21/2018 20:22:34	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.49	0.0049 (ppm)	7130.2921
2/21/2018 20:22:34	Contract Required Detection Limit	Ca (227.547 nm)	0.9451 (ppm)	3.54	0.9451 (ppm)	72.7191
2/21/2018 20:22:34	Contract Required Detection Limit	Cd (214.439 nm)	0.0096 (ppm)	0.87	0.0096 (ppm)	233.9557
2/21/2018 20:22:34	Contract Required Detection Limit	Co (230.786 nm)	0.0497 (ppm)	0.20	0.0497 (ppm)	543.7042
2/21/2018 20:22:34	Contract Required Detection Limit	Cr (267.716 nm)	0.0100 (ppm)	0.32	0.0100 (ppm)	503.3178
2/21/2018 20:22:34	Contract Required Detection Limit	Cu (327.395 nm)	0.0241 (ppm)	0.34	0.0241 (ppm)	1700.8946
2/21/2018 20:22:34	Contract Required Detection Limit	Fe (234.350 nm)	0.1024 (ppm)	0.77	0.1024 (ppm)	1222.9430
2/21/2018 20:22:34	Contract Required Detection Limit	K (766.491 nm)	0.9401 (ppm)	0.87	0.9401 (ppm)	3459.9203
2/21/2018 20:22:34	Contract Required Detection Limit	Mg (279.078 nm)	0.9985 (ppm)	0.24	0.9985 (ppm)	2123.1513
2/21/2018 20:22:34	Contract Required Detection Limit	Mn (257.610 nm)	0.0153 (ppm)	0.27	0.0153 (ppm)	5084.1220
2/21/2018 20:22:34	Contract Required Detection Limit	Mo (202.032 nm)	0.0244 (ppm)	0.81	0.0244 (ppm)	277.1796

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:22:34	Contract Required Detection Limit	Na (588.995 nm)	1.0185 (ppm)	0.58	1.0185 (ppm)	52303.3135
2/21/2018 20:22:34	Contract Required Detection Limit	Ni (230.299 nm)	0.0409 (ppm)	0.54	0.0409 (ppm)	271.2505
2/21/2018 20:22:34	Contract Required Detection Limit	Pb (220.353 nm)	0.0096 (ppm)	6.79	0.0096 (ppm)	27.4223
2/21/2018 20:22:34	Contract Required Detection Limit	Sb (217.582 nm)	0.0594 (ppm)	0.94	0.0594 (ppm)	96.4361
2/21/2018 20:22:34	Contract Required Detection Limit	Se (195.026 nm)	0.0099 (ppm)	3.63	0.0099 (ppm)	9.1631
2/21/2018 20:22:34	Contract Required Detection Limit	Sn (189.925 nm)	0.4885 (ppm)	0.37	0.4885 (ppm)	632.8700
2/21/2018 20:22:34	Contract Required Detection Limit	Sr (216.596 nm)	0.0997 (ppm)	0.95	0.0997 (ppm)	1459.8883
2/21/2018 20:22:34	Contract Required Detection Limit	Ti (336.122 nm)	0.0500 (ppm)	0.16	0.0500 (ppm)	10913.0675
2/21/2018 20:22:34	Contract Required Detection Limit	Ti (351.923 nm)	0.0188 (ppm)	3.02	0.0188 (ppm)	57.5101
2/21/2018 20:22:34	Contract Required Detection Limit	V (292.401 nm)	0.0478 (ppm)	0.12	0.0478 (ppm)	1951.3293
2/21/2018 20:22:34	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.37	1.03 (Ratio)	1012741.17
2/21/2018 20:22:34	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.37	1.03 (Ratio)	1013538.12
2/21/2018 20:22:34	Contract Required Detection Limit	Zn (213.857 nm)	0.0193 (ppm)	2.00	0.0193 (ppm)	584.7742
2/21/2018 20:25:55	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u (ppm)	51.70	-0.0001 (ppm)	-112.3793
2/21/2018 20:25:55	Interference Check Solution A	Al (394.401 nm)	267.2693 o (ppm)	0.19	267.2693 (ppm)	3817932.3402
2/21/2018 20:25:55	Interference Check Solution A	As (188.980 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	-0.7918
2/21/2018 20:25:55	Interference Check Solution A	B (249.772 nm)	0.0333 (ppm)	0.47	0.0333 (ppm)	1115.5522
2/21/2018 20:25:55	Interference Check Solution A	Ba (230.424 nm)	0.0005 (ppm)	18.04	0.0005 (ppm)	22.1805
2/21/2018 20:25:55	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	12.26	0.0000 (ppm)	-651.1437
2/21/2018 20:25:55	Interference Check Solution A	Ca (227.547 nm)	267.8068 o (ppm)	0.07	267.8068 (ppm)	18426.1744
2/21/2018 20:25:55	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u (ppm)	11.45	-0.0010 (ppm)	-6.6457
2/21/2018 20:25:55	Interference Check Solution A	Co (230.786 nm)	-0.0016 u (ppm)	25.81	-0.0016 (ppm)	-23.3186
2/21/2018 20:25:55	Interference Check Solution A	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.6265
2/21/2018 20:25:55	Interference Check Solution A	Cu (327.395 nm)	0.0005 (ppm)	24.61	0.0005 (ppm)	62.0954
2/21/2018 20:25:55	Interference Check Solution A	Fe (234.350 nm)	90.6051 o (ppm)	0.21	90.6051 (ppm)	1048376.8266
2/21/2018 20:25:55	Interference Check Solution A	K (766.491 nm)	0.0458 (ppm)	86.83	0.0458 (ppm)	156.3201
2/21/2018 20:25:55	Interference Check Solution A	Mg (279.078 nm)	257.2875 o (ppm)	0.16	257.2875 (ppm)	548340.0008
2/21/2018 20:25:55	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.43	0.0016 (ppm)	530.4913
2/21/2018 20:25:55	Interference Check Solution A	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	8.5121
2/21/2018 20:25:55	Interference Check Solution A	Na (588.995 nm)	0.0149 (ppm)	15.42	0.0149 (ppm)	-3453.8345
2/21/2018 20:25:55	Interference Check Solution A	Ni (230.299 nm)	-0.0025 u (ppm)	25.46	-0.0025 (ppm)	-40.3740
2/21/2018 20:25:55	Interference Check Solution A	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	2.2984
2/21/2018 20:25:55	Interference Check Solution A	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.8955
2/21/2018 20:25:55	Interference Check Solution A	Se (195.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-1.8648
2/21/2018 20:25:55	Interference Check Solution A	Sn (189.925 nm)	-0.0016 u (ppm)	59.83	-0.0016 (ppm)	-2.6496
2/21/2018 20:25:55	Interference Check Solution A	Sr (216.596 nm)	0.0194 (ppm)	3.53	0.0194 (ppm)	282.6533
2/21/2018 20:25:55	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	0.79	0.0018 (ppm)	-68.0085
2/21/2018 20:25:55	Interference Check Solution A	Ti (351.923 nm)	0.0035 (ppm)	58.61	0.0035 (ppm)	10.0882
2/21/2018 20:25:55	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	8.22	0.0035 (ppm)	223.6647 K
2/21/2018 20:25:55	Interference Check Solution A	Y (360.074 nm)	0.89 (Ratio)	0.80	0.89 (Ratio)	876169.44
2/21/2018 20:25:55	Interference Check Solution A	Y_R (360.074 nm)	0.89 (Ratio)	0.80	0.89 (Ratio)	876985.83
2/21/2018 20:25:55	Interference Check Solution A	Zn (213.857 nm)	0.0117 K (ppm)	0.86	0.0117 (ppm)	343.7164 K
2/21/2018 20:29:17	Interference Check Solution AB	Ag (328.068 nm)	0.2139 (ppm)	0.27	0.2139 (ppm)	16623.0237
2/21/2018 20:29:17	Interference Check Solution AB	Al (394.401 nm)	267.3012 o (ppm)	0.24	267.3012 (ppm)	3818387.4194
2/21/2018 20:29:17	Interference Check Solution AB	As (188.980 nm)	0.0998 (ppm)	6.06	0.0998 (ppm)	94.6876
2/21/2018 20:29:17	Interference Check Solution AB	B (249.772 nm)	0.0344 (ppm)	0.37	0.0344 (ppm)	1151.5460
2/21/2018 20:29:17	Interference Check Solution AB	Ba (230.424 nm)	0.5284 (ppm)	0.49	0.5284 (ppm)	18829.3862
2/21/2018 20:29:17	Interference Check Solution AB	Be (313.107 nm)	0.5035 (ppm)	0.47	0.5035 (ppm)	795645.4720
2/21/2018 20:29:17	Interference Check Solution AB	Ca (227.547 nm)	267.7121 o (ppm)	0.14	267.7121 (ppm)	18419.6667
2/21/2018 20:29:17	Interference Check Solution AB	Cd (214.439 nm)	0.9415 (ppm)	0.48	0.9415 (ppm)	21478.6915
2/21/2018 20:29:17	Interference Check Solution AB	Co (230.786 nm)	0.4831 (ppm)	0.56	0.4831 (ppm)	5329.3594

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:29:17	Interference Check Solution AB	Cr (267.716 nm)	0.5044 (ppm)	0.43	0.5044 (ppm)	25901.0878
2/21/2018 20:29:17	Interference Check Solution AB	Cu (327.395 nm)	0.5316 (ppm)	0.21	0.5316 (ppm)	36994.7340
2/21/2018 20:29:17	Interference Check Solution AB	Fe (234.350 nm)	90.9052 o (ppm)	0.41	90.9052 (ppm)	1051848.9703
2/21/2018 20:29:17	Interference Check Solution AB	K (766.491 nm)	0.0043 (ppm)	58.86	0.0043 (ppm)	3.0278
2/21/2018 20:29:17	Interference Check Solution AB	Mg (279.078 nm)	257.7308 o (ppm)	0.56	257.7308 (ppm)	549284.8853
2/21/2018 20:29:17	Interference Check Solution AB	Mn (257.610 nm)	0.4991 (ppm)	0.42	0.4991 (ppm)	165343.0488
2/21/2018 20:29:17	Interference Check Solution AB	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	9.2287
2/21/2018 20:29:17	Interference Check Solution AB	Na (588.995 nm)	0.0149 (ppm)	2.39	0.0149 (ppm)	-3458.1584
2/21/2018 20:29:17	Interference Check Solution AB	Ni (230.299 nm)	0.9572 (ppm)	0.77	0.9572 (ppm)	6847.8557
2/21/2018 20:29:17	Interference Check Solution AB	Pb (220.353 nm)	0.0470 (ppm)	5.13	0.0470 (ppm)	116.0537
2/21/2018 20:29:17	Interference Check Solution AB	Sb (217.582 nm)	0.6029 (ppm)	0.77	0.6029 (ppm)	982.0286
2/21/2018 20:29:17	Interference Check Solution AB	Se (196.026 nm)	0.0517 (ppm)	3.67	0.0517 (ppm)	51.2711
2/21/2018 20:29:17	Interference Check Solution AB	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.2372
2/21/2018 20:29:17	Interference Check Solution AB	Sr (216.596 nm)	0.0204 (ppm)	0.86	0.0204 (ppm)	297.1740
2/21/2018 20:29:17	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	3.60	0.0016 (ppm)	-99.7748
2/21/2018 20:29:17	Interference Check Solution AB	Tl (351.923 nm)	0.1153 (ppm)	2.81	0.1153 (ppm)	356.3513
2/21/2018 20:29:17	Interference Check Solution AB	V (292.401 nm)	0.4996 (ppm)	0.31	0.4996 (ppm)	19548.1885
2/21/2018 20:29:17	Interference Check Solution AB	Y (360.074 nm)	0.89 (Ratio)	0.58	0.89 (Ratio)	877949.00
2/21/2018 20:29:17	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	0.58	0.89 (Ratio)	878761.63
2/21/2018 20:29:17	Interference Check Solution AB	Zn (213.857 nm)	1.0094 (ppm)	0.47	1.0094 (ppm)	32069.4012
2/21/2018 20:32:39	HLCCV2	Ag (328.068 nm)	2.1433 o (ppm)	2.76	2.1433 (ppm)	167494.0485
2/21/2018 20:32:39	HLCCV2	Al (394.401 nm)	531.7960 o (ppm)	2.98	531.7960 (ppm)	7596596.8391
2/21/2018 20:32:39	HLCCV2	As (188.980 nm)	3.9430 o (ppm)	2.75	3.9430 (ppm)	3869.2577
2/21/2018 20:32:39	HLCCV2	B (249.772 nm)	10.2206 o (ppm)	2.67	10.2206 (ppm)	320014.4177
2/21/2018 20:32:39	HLCCV2	Ba (230.424 nm)	37.3689 o (ppm)	2.49	37.3689 (ppm)	1331167.7955
2/21/2018 20:32:39	HLCCV2	Be (313.107 nm)	0.9605 o (ppm)	2.64	0.9605 (ppm)	1518296.9936
2/21/2018 20:32:39	HLCCV2	Cb (227.547 nm)	276.0946 Qo (ppm)	3.11	276.0946 (ppm)	18996.1708 Q
2/21/2018 20:32:39	HLCCV2	Cd (214.439 nm)	1.7859 Qo (ppm)	2.23	1.7859 (ppm)	40728.6610 Q
2/21/2018 20:32:39	HLCCV2	Co (230.786 nm)	8.9514 Qo (ppm)	2.37	8.9514 (ppm)	98844.1861 Q
2/21/2018 20:32:39	HLCCV2	Cr (267.716 nm)	9.6354 o (ppm)	2.41	9.6354 (ppm)	494937.7487
2/21/2018 20:32:39	HLCCV2	Cu (327.395 nm)	5.4926 o (ppm)	3.01	5.4926 (ppm)	382016.7397
2/21/2018 20:32:39	HLCCV2	Fe (234.350 nm)	45.9808 o (ppm)	3.09	45.9808 (ppm)	532055.3955
2/21/2018 20:32:39	HLCCV2	K (766.491 nm)	168.9280 Qo (ppm)	3.10	168.9280 (ppm)	624074.3050 Q
2/21/2018 20:32:39	HLCCV2	Mg (279.078 nm)	488.8682 o (ppm)	2.58	488.8682 (ppm)	1041897.3091
2/21/2018 20:32:39	HLCCV2	Mn (257.610 nm)	9.2361 o (ppm)	2.31	9.2361 (ppm)	3059891.9592
2/21/2018 20:32:39	HLCCV2	Mo (202.032 nm)	9.3960 o (ppm)	2.47	9.3960 (ppm)	103922.6534
2/21/2018 20:32:39	HLCCV2	Na (588.995 nm)	156.9306 o (ppm)	3.59	156.9306 (ppm)	8714275.7249
2/21/2018 20:32:39	HLCCV2	Ni (230.299 nm)	7.2036 o (ppm)	2.39	7.2036 (ppm)	51681.5875
2/21/2018 20:32:39	HLCCV2	Pb (220.353 nm)	9.0241 o (ppm)	2.39	9.0241 (ppm)	21377.4967
2/21/2018 20:32:39	HLCCV2	Sb (217.582 nm)	0.0322 (ppm)	3.24	0.0322 (ppm)	52.1055
2/21/2018 20:32:39	HLCCV2	Se (196.026 nm)	1.9707 o (ppm)	2.24	1.9707 (ppm)	1985.2603
2/21/2018 20:32:39	HLCCV2	Sn (189.925 nm)	-0.0170 u (ppm)	35.95	-0.0170 (ppm)	-22.6621
2/21/2018 20:32:39	HLCCV2	Sr (216.596 nm)	9.2435 o (ppm)	1.54	9.2435 (ppm)	135520.3175
2/21/2018 20:32:39	HLCCV2	Ti (336.122 nm)	9.8853 o (ppm)	2.72	9.8853 (ppm)	2247183.3553
2/21/2018 20:32:39	HLCCV2	Tl (351.923 nm)	4.4452 Qo (ppm)	2.84	4.4452 (ppm)	13765.2125 Q
2/21/2018 20:32:39	HLCCV2	V (292.401 nm)	9.5811 o (ppm)	2.54	9.5811 (ppm)	373293.7600
2/21/2018 20:32:39	HLCCV2	Y (360.074 nm)	0.84 (Ratio)	2.80	0.84 (Ratio)	826893.59
2/21/2018 20:32:39	HLCCV2	Y_R (360.074 nm)	0.84 (Ratio)	2.80	0.84 (Ratio)	827672.86
2/21/2018 20:32:39	HLCCV2	Zn (213.857 nm)	3.9316 o (ppm)	2.71	3.9316 (ppm)	124996.9446
2/21/2018 20:36:01	HLCCV3	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-92.8418
2/21/2018 20:36:01	HLCCV3	Al (394.401 nm)	0.0939 (ppm)	48.00	0.0939 (ppm)	1430.3159

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:36:01	HLCCV3	As (188.980 nm)	0.0016 (ppm)	59.53	0.0016 (ppm)	-1.7397
2/21/2018 20:36:01	HLCCV3	B (249.772 nm)	0.0220 (ppm)	2.41	0.0220 (ppm)	762.2499
2/21/2018 20:36:01	HLCCV3	Ba (230.424 nm)	0.0062 (ppm)	58.47	0.0062 (ppm)	226.1466
2/21/2018 20:36:01	HLCCV3	Be (313.107 nm)	0.0002 (ppm)	56.96	0.0002 (ppm)	-343.1873
2/21/2018 20:36:01	HLCCV3	Ca (227.547 nm)	199.3500 o (ppm)	0.02	199.3500 (ppm)	13718.0523
2/21/2018 20:36:01	HLCCV3	Cd (214.439 nm)	0.0009 (ppm)	22.34	0.0009 (ppm)	36.5959
2/21/2018 20:36:01	HLCCV3	Co (230.786 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	3.6945
2/21/2018 20:36:01	HLCCV3	Cr (267.716 nm)	0.0013 (ppm)	65.75	0.0013 (ppm)	57.6320
2/21/2018 20:36:01	HLCCV3	Cu (327.395 nm)	4.0495 o (ppm)	0.33	4.0495 (ppm)	281653.4529
2/21/2018 20:36:01	HLCCV3	Fe (234.350 nm)	38.8796 o (ppm)	0.33	38.8796 (ppm)	449891.7388
2/21/2018 20:36:01	HLCCV3	K (766.491 nm)	99.5161 o (ppm)	0.24	99.5161 (ppm)	367639.1421
2/21/2018 20:36:01	HLCCV3	Mg (279.078 nm)	0.0655 (ppm)	69.95	0.0655 (ppm)	134.7077
2/21/2018 20:36:01	HLCCV3	Mn (257.610 nm)	0.0016 (ppm)	56.19	0.0016 (ppm)	532.3813
2/21/2018 20:36:01	HLCCV3	Mo (202.032 nm)	0.0076 (ppm)	2.58	0.0076 (ppm)	90.5927
2/21/2018 20:36:01	HLCCV3	Na (588.995 nm)	0.0229 (ppm)	68.93	0.0229 (ppm)	-3012.5923
2/21/2018 20:36:01	HLCCV3	Ni (230.299 nm)	-0.0291 u (ppm)	3.90	-0.0291 (ppm)	-230.7260
2/21/2018 20:36:01	HLCCV3	Pb (220.353 nm)	0.0024 (ppm)	76.50	0.0024 (ppm)	10.3852
2/21/2018 20:36:01	HLCCV3	Sb (217.582 nm)	0.0046 (ppm)	14.86	0.0046 (ppm)	7.2262
2/21/2018 20:36:01	HLCCV3	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-2.1752
2/21/2018 20:36:01	HLCCV3	Sn (189.925 nm)	-0.0015 u (ppm)	66.65	-0.0015 (ppm)	-2.5458
2/21/2018 20:36:01	HLCCV3	Sr (216.596 nm)	0.0069 (ppm)	17.82	0.0069 (ppm)	99.8431
2/21/2018 20:36:01	HLCCV3	Ti (336.122 nm)	0.0039 (ppm)	19.48	0.0039 (ppm)	429.7072
2/21/2018 20:36:01	HLCCV3	Ti (351.923 nm)	2.9607 o (ppm)	0.13	2.9607 (ppm)	9167.8315
2/21/2018 20:36:01	HLCCV3	V (292.401 nm)	0.0031 (ppm)	34.48	0.0031 (ppm)	207.6951
2/21/2018 20:36:01	HLCCV3	Y (360.074 nm)	0.94 (Ratio)	0.70	0.94 (Ratio)	928787.57
2/21/2018 20:36:01	HLCCV3	Y_R (360.074 nm)	0.95 (Ratio)	0.70	0.95 (Ratio)	929603.96
2/21/2018 20:36:01	HLCCV3	Zn (213.857 nm)	0.0086 (ppm)	4.22	0.0086 (ppm)	245.8021
2/21/2018 20:39:22	HLCCV1	Ag (328.068 nm)	0.9907 (ppm)	0.19	0.9907 (ppm)	77358.3186
2/21/2018 20:39:22	HLCCV1	Al (394.401 nm)	20.0319 (ppm)	0.25	20.0319 (ppm)	286237.1585
2/21/2018 20:39:22	HLCCV1	As (188.980 nm)	1.9350 (ppm)	0.37	1.9350 (ppm)	1897.1647
2/21/2018 20:39:22	HLCCV1	B (249.772 nm)	4.9066 (ppm)	0.17	4.9066 (ppm)	153668.3853
2/21/2018 20:39:22	HLCCV1	Ba (230.424 nm)	19.7895 (ppm)	0.78	19.7895 (ppm)	704950.8667
2/21/2018 20:39:22	HLCCV1	Be (313.107 nm)	0.4985 (ppm)	0.39	0.4985 (ppm)	787713.6480
2/21/2018 20:39:22	HLCCV1	Ca (227.547 nm)	49.5667 (ppm)	0.22	49.5667 (ppm)	3416.6828
2/21/2018 20:39:22	HLCCV1	Cd (214.439 nm)	0.9680 (ppm)	0.64	0.9680 (ppm)	22083.8190
2/21/2018 20:39:22	HLCCV1	Co (230.786 nm)	4.8751 (ppm)	0.31	4.8751 (ppm)	53829.3871
2/21/2018 20:39:22	HLCCV1	Cr (267.716 nm)	0.9958 (ppm)	0.46	0.9958 (ppm)	51139.8463
2/21/2018 20:39:22	HLCCV1	Cu (327.395 nm)	2.4800 (ppm)	0.24	2.4800 (ppm)	172502.6607
2/21/2018 20:39:22	HLCCV1	Fe (234.350 nm)	9.8469 (ppm)	0.38	9.8469 (ppm)	113971.1716
2/21/2018 20:39:22	HLCCV1	K (766.491 nm)	50.4641 (ppm)	0.51	50.4641 (ppm)	186421.6216
2/21/2018 20:39:22	HLCCV1	Mg (279.078 nm)	49.3566 (ppm)	0.28	49.3566 (ppm)	105186.3922
2/21/2018 20:39:22	HLCCV1	Mn (257.610 nm)	1.4904 (ppm)	0.34	1.4904 (ppm)	493764.4431
2/21/2018 20:39:22	HLCCV1	Mo (202.032 nm)	4.9111 (ppm)	0.38	4.9111 (ppm)	54321.8704
2/21/2018 20:39:22	HLCCV1	Na (588.995 nm)	50.3947 (ppm)	0.58	50.3947 (ppm)	2795484.9062
2/21/2018 20:39:22	HLCCV1	Ni (230.299 nm)	3.9535 (ppm)	0.38	3.9535 (ppm)	28353.9861
2/21/2018 20:39:22	HLCCV1	Pb (220.353 nm)	0.9709 (ppm)	0.60	0.9709 (ppm)	2304.1636
2/21/2018 20:39:22	HLCCV1	Sb (217.582 nm)	9.7235 (ppm)	0.18	9.7235 (ppm)	15842.5635
2/21/2018 20:39:22	HLCCV1	Se (196.026 nm)	0.9642 (ppm)	0.05	0.9642 (ppm)	970.9234
2/21/2018 20:39:22	HLCCV1	Sn (189.925 nm)	9.5932 (ppm)	0.84	9.5932 (ppm)	12438.9942
2/21/2018 20:39:22	HLCCV1	Sr (216.596 nm)	4.9381 (ppm)	0.65	4.9381 (ppm)	72397.9196
2/21/2018 20:39:22	HLCCV1	Ti (336.122 nm)	4.9949 (ppm)	0.25	4.9949 (ppm)	1135239.2138



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:39:22	HLCCV1	Ti (351.923 nm)	2.0004 (ppm)	0.24	2.0004 (ppm)	6194.1829
2/21/2018 20:39:22	HLCCV1	V (292.401 nm)	4.9660 (ppm)	0.27	4.9660 (ppm)	193524.5007
2/21/2018 20:39:22	HLCCV1	Y (360.074 nm)	0.95 (Ratio)	0.78	0.95 (Ratio)	933660.98
2/21/2018 20:39:22	HLCCV1	Y_R (360.074 nm)	0.95 (Ratio)	0.78	0.95 (Ratio)	934530.35
2/21/2018 20:39:22	HLCCV1	Zn (213.857 nm)	1.9519 (ppm)	0.50	1.9519 (ppm)	62041.0421
2/21/2018 20:42:44	Continuing Calibration Verification	Ag (328.068 nm)	0.4849 (ppm)	0.10	0.4849 (ppm)	37815.6841
2/21/2018 20:42:44	Continuing Calibration Verification	Al (394.401 nm)	9.5607 (ppm)	0.09	9.5607 (ppm)	136660.0014
2/21/2018 20:42:44	Continuing Calibration Verification	As (188.980 nm)	0.9308 (ppm)	1.13	0.9308 (ppm)	910.8674
2/21/2018 20:42:44	Continuing Calibration Verification	B (249.772 nm)	2.4019 (ppm)	0.06	2.4019 (ppm)	75262.8874
2/21/2018 20:42:44	Continuing Calibration Verification	Ba (230.424 nm)	10.2751 (ppm)	0.23	10.2751 (ppm)	366025.7122
2/21/2018 20:42:44	Continuing Calibration Verification	Be (313.107 nm)	0.2499 (ppm)	0.16	0.2499 (ppm)	394572.9680
2/21/2018 20:42:44	Continuing Calibration Verification	Ca (227.547 nm)	23.7525 (ppm)	0.43	23.7525 (ppm)	1641.3071
2/21/2018 20:42:44	Continuing Calibration Verification	Cd (214.439 nm)	0.4843 (ppm)	0.39	0.4843 (ppm)	11056.5372
2/21/2018 20:42:44	Continuing Calibration Verification	Co (230.786 nm)	2.5119 (ppm)	0.22	2.5119 (ppm)	27733.4363
2/21/2018 20:42:44	Continuing Calibration Verification	Cr (267.716 nm)	0.5165 (ppm)	0.28	0.5165 (ppm)	26523.4790
2/21/2018 20:42:44	Continuing Calibration Verification	Cu (327.395 nm)	1.2036 (ppm)	0.36	1.2036 (ppm)	83729.8459
2/21/2018 20:42:44	Continuing Calibration Verification	Fe (234.350 nm)	4.9859 (ppm)	0.18	4.9859 (ppm)	57727.4538
2/21/2018 20:42:44	Continuing Calibration Verification	K (766.491 nm)	24.6354 (ppm)	0.43	24.6354 (ppm)	91000.1435
2/21/2018 20:42:44	Continuing Calibration Verification	Mg (279.078 nm)	24.5756 (ppm)	0.13	24.5756 (ppm)	52371.8385
2/21/2018 20:42:44	Continuing Calibration Verification	Mn (257.610 nm)	0.7598 (ppm)	0.15	0.7598 (ppm)	251726.0707
2/21/2018 20:42:44	Continuing Calibration Verification	Mo (202.032 nm)	2.4002 (ppm)	0.11	2.4002 (ppm)	26551.7538
2/21/2018 20:42:44	Continuing Calibration Verification	Na (588.995 nm)	24.7124 (ppm)	0.43	24.7124 (ppm)	1368658.3939
2/21/2018 20:42:44	Continuing Calibration Verification	Ni (230.299 nm)	2.0249 (ppm)	0.18	2.0249 (ppm)	14511.4838
2/21/2018 20:42:44	Continuing Calibration Verification	Pb (220.353 nm)	0.4851 (ppm)	0.29	0.4851 (ppm)	1153.7470
2/21/2018 20:42:44	Continuing Calibration Verification	Sb (217.582 nm)	4.7296 (ppm)	0.32	4.7296 (ppm)	7705.8357
2/21/2018 20:42:44	Continuing Calibration Verification	Se (196.026 nm)	0.4681 (ppm)	0.32	0.4681 (ppm)	470.9180
2/21/2018 20:42:44	Continuing Calibration Verification	Sn (189.925 nm)	4.8802 (ppm)	0.50	4.8802 (ppm)	6327.5946
2/21/2018 20:42:44	Continuing Calibration Verification	Sr (216.596 nm)	2.5031 (ppm)	0.36	2.5031 (ppm)	36696.6814
2/21/2018 20:42:44	Continuing Calibration Verification	Ti (336.122 nm)	2.4899 (ppm)	0.20	2.4899 (ppm)	565677.4373
2/21/2018 20:42:44	Continuing Calibration Verification	Ti (351.923 nm)	0.9825 (ppm)	0.33	0.9825 (ppm)	3041.7420
2/21/2018 20:42:44	Continuing Calibration Verification	V (292.401 nm)	2.4785 (ppm)	0.13	2.4785 (ppm)	96631.6075
2/21/2018 20:42:44	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.84	0.98 (Ratio)	960448.84
2/21/2018 20:42:44	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.84	0.98 (Ratio)	961272.58
2/21/2018 20:42:44	Continuing Calibration Verification	Zn (213.857 nm)	0.9705 (ppm)	0.20	0.9705 (ppm)	30833.1822
2/21/2018 20:46:05	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	19.00	-0.0001 (ppm)	-109.9922
2/21/2018 20:46:05	Continuing Calibration Blank	Al (394.401 nm)	0.0024 (ppm)	28.05	0.0024 (ppm)	123.4158
2/21/2018 20:46:05	Continuing Calibration Blank	As (188.980 nm)	0.0019 (ppm)	76.64	0.0019 (ppm)	-1.4402
2/21/2018 20:46:05	Continuing Calibration Blank	B (249.772 nm)	0.0047 (ppm)	11.00	0.0047 (ppm)	221.7251
2/21/2018 20:46:05	Continuing Calibration Blank	Ba (230.424 nm)	0.0028 (ppm)	5.52	0.0028 (ppm)	104.5994
2/21/2018 20:46:05	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	5.17	0.0001 (ppm)	-441.1857
2/21/2018 20:46:05	Continuing Calibration Blank	Ca (227.547 nm)	-0.0183 u (ppm)	> 100.00	-0.0183 (ppm)	6.4650
2/21/2018 20:46:05	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	26.56	0.0002 (ppm)	19.2680
2/21/2018 20:46:05	Continuing Calibration Blank	Co (230.786 nm)	0.0007 (ppm)	26.47	0.0007 (ppm)	2.5493
2/21/2018 20:46:05	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	14.94	0.0002 (ppm)	0.2881
2/21/2018 20:46:05	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	50.23	0.0002 (ppm)	42.2681
2/21/2018 20:46:05	Continuing Calibration Blank	Fe (234.350 nm)	0.0009 (ppm)	15.51	0.0009 (ppm)	48.5200
2/21/2018 20:46:05	Continuing Calibration Blank	K (766.491 nm)	0.0662 (ppm)	10.36	0.0662 (ppm)	231.7316
2/21/2018 20:46:05	Continuing Calibration Blank	Mg (279.078 nm)	0.0061 (ppm)	29.64	0.0061 (ppm)	8.0340
2/21/2018 20:46:05	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	5.57	0.0002 (ppm)	80.5392
2/21/2018 20:46:05	Continuing Calibration Blank	Mo (202.032 nm)	0.0028 (ppm)	3.83	0.0028 (ppm)	37.3029
2/21/2018 20:46:05	Continuing Calibration Blank	Na (588.995 nm)	0.0083 (ppm)	10.99	0.0083 (ppm)	-3823.7416

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:46:05	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 (ppm)	91.48	0.0005 (ppm)	-18.6705
2/21/2018 20:46:05	Continuing Calibration Blank	Pb (220.353 nm)	0.0008 (ppm)	37.47	0.0008 (ppm)	6.7314
2/21/2018 20:46:05	Continuing Calibration Blank	Sb (217.582 nm)	0.0034 (ppm)	6.70	0.0034 (ppm)	5.1733
2/21/2018 20:46:05	Continuing Calibration Blank	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.6601
2/21/2018 20:46:05	Continuing Calibration Blank	Sn (189.925 nm)	0.0013 (ppm)	30.44	0.0013 (ppm)	1.0549
2/21/2018 20:46:05	Continuing Calibration Blank	Sr (216.596 nm)	0.0007 (ppm)	35.18	0.0007 (ppm)	7.8020
2/21/2018 20:46:05	Continuing Calibration Blank	Ti (336.122 nm)	0.0015 (ppm)	3.20	0.0015 (ppm)	-131.2397
2/21/2018 20:46:05	Continuing Calibration Blank	Ti (351.923 nm)	0.0027 (ppm)	17.68	0.0027 (ppm)	7.6874
2/21/2018 20:46:05	Continuing Calibration Blank	V (292.401 nm)	0.0007 (ppm)	10.16	0.0007 (ppm)	116.3092
2/21/2018 20:46:05	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.62	1.03 (Ratio)	1009841.66
2/21/2018 20:46:05	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.62	1.03 (Ratio)	1010609.71
2/21/2018 20:46:05	Continuing Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	18.10	0.0002 (ppm)	-21.5982
2/21/2018 20:49:25	PBW-308555	Ag (328.068 nm)	-0.0001 u (ppm)	32.82	-0.0001 (ppm)	-111.7785
2/21/2018 20:49:25	PBW-308555	Al (394.401 nm)	0.0024 (ppm)	70.49	0.0024 (ppm)	123.2916
2/21/2018 20:49:25	PBW-308555	As (188.980 nm)	0.0011 (ppm)	70.29	0.0011 (ppm)	-2.2098
2/21/2018 20:49:25	PBW-308555	B (249.772 nm)	0.0028 (ppm)	3.15	0.0028 (ppm)	162.6048
2/21/2018 20:49:25	PBW-308555	Ba (230.424 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	12.4089
2/21/2018 20:49:25	PBW-308555	Be (313.107 nm)	0.0000 (ppm)	33.23	0.0000 (ppm)	-531.7641
2/21/2018 20:49:25	PBW-308555	Ca (227.547 nm)	-0.0094 u (ppm)	51.01	-0.0094 (ppm)	7.0788
2/21/2018 20:49:25	PBW-308555	Cd (214.439 nm)	-0.0001 u (ppm)	79.46	-0.0001 (ppm)	12.8337
2/21/2018 20:49:25	PBW-308555	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-3.5152
2/21/2018 20:49:25	PBW-308555	Cr (267.716 nm)	-0.0001 u (ppm)	68.14	-0.0001 (ppm)	-15.7642
2/21/2018 20:49:25	PBW-308555	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	27.9124
2/21/2018 20:49:25	PBW-308555	Fe (234.350 nm)	-0.0013 u (ppm)	54.26	-0.0013 (ppm)	22.9781
2/21/2018 20:49:25	PBW-308555	K (766.491 nm)	0.0326 (ppm)	17.03	0.0326 (ppm)	107.3951
2/21/2018 20:49:25	PBW-308555	Mg (279.078 nm)	0.0014 (ppm)	42.53	0.0014 (ppm)	-1.9288
2/21/2018 20:49:25	PBW-308555	Mn (257.610 nm)	0.0001 (ppm)	39.19	0.0001 (ppm)	17.9689
2/21/2018 20:49:25	PBW-308555	Mo (202.032 nm)	0.0005 (ppm)	60.35	0.0005 (ppm)	12.6945
2/21/2018 20:49:25	PBW-308555	Na (588.995 nm)	0.0073 (ppm)	7.39	0.0073 (ppm)	-3876.1001
2/21/2018 20:49:25	PBW-308555	Ni (230.299 nm)	0.0004 (ppm)	14.73	0.0004 (ppm)	-19.0205
2/21/2018 20:49:25	PBW-308555	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	4.7199
2/21/2018 20:49:25	PBW-308555	Sb (217.582 nm)	0.0023 (ppm)	74.22	0.0023 (ppm)	3.5047
2/21/2018 20:49:25	PBW-308555	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	0.0741
2/21/2018 20:49:25	PBW-308555	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.6119
2/21/2018 20:49:25	PBW-308555	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-1.0876
2/21/2018 20:49:25	PBW-308555	Ti (336.122 nm)	0.0007 (ppm)	12.24	0.0007 (ppm)	-296.5292
2/21/2018 20:49:25	PBW-308555	Ti (351.923 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	1.7473
2/21/2018 20:49:25	PBW-308555	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	88.7422
2/21/2018 20:49:25	PBW-308555	Y (360.074 nm)	1.04 (Ratio)	0.43	1.04 (Ratio)	1025631.52
2/21/2018 20:49:25	PBW-308555	Y_R (360.074 nm)	1.04 (Ratio)	0.43	1.04 (Ratio)	1026399.40
2/21/2018 20:49:25	PBW-308555	Zn (213.857 nm)	0.0011 (ppm)	8.51	0.0011 (ppm)	5.7779
2/21/2018 20:52:47	LCSW-308555	Ag (328.068 nm)	0.0485 (ppm)	0.58	0.0485 (ppm)	3692.6463
2/21/2018 20:52:47	LCSW-308555	Al (394.401 nm)	1.8408 (ppm)	0.11	1.8408 (ppm)	26384.7441
2/21/2018 20:52:47	LCSW-308555	As (188.980 nm)	0.0376 (ppm)	9.35	0.0376 (ppm)	33.6550
2/21/2018 20:52:47	LCSW-308555	B (249.772 nm)	0.9543 (ppm)	0.36	0.9543 (ppm)	29948.2035
2/21/2018 20:52:47	LCSW-308555	Ba (230.424 nm)	2.0705 (ppm)	0.59	2.0705 (ppm)	73762.4287
2/21/2018 20:52:47	LCSW-308555	Be (313.107 nm)	0.0490 (ppm)	0.46	0.0490 (ppm)	76925.3377
2/21/2018 20:52:47	LCSW-308555	Ca (227.547 nm)	1.8305 (ppm)	1.36	1.8305 (ppm)	133.6159
2/21/2018 20:52:47	LCSW-308555	Cd (214.439 nm)	0.0497 (ppm)	1.00	0.0497 (ppm)	1148.2605
2/21/2018 20:52:47	LCSW-308555	Co (230.786 nm)	0.5003 (ppm)	0.62	0.5003 (ppm)	5519.5639
2/21/2018 20:52:47	LCSW-308555	Cr (267.716 nm)	0.2025 (ppm)	0.65	0.2025 (ppm)	10393.3402

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:52:47	LCSW-308555	Cu (327.395 nm)	0.2397 (ppm)	0.80	0.2397 (ppm)	16700.7128
2/21/2018 20:52:47	LCSW-308555	Fe (234.350 nm)	0.9925 (ppm)	0.63	0.9925 (ppm)	11522.5256
2/21/2018 20:52:47	LCSW-308555	K (766.491 nm)	18.8565 (ppm)	0.40	18.8565 (ppm)	69650.2636
2/21/2018 20:52:47	LCSW-308555	Mg (279.078 nm)	1.9498 (ppm)	0.67	1.9498 (ppm)	4150.4709
2/21/2018 20:52:47	LCSW-308555	Mn (257.610 nm)	0.4984 (ppm)	0.56	0.4984 (ppm)	165129.4144
2/21/2018 20:52:47	LCSW-308555	Mo (202.032 nm)	0.4869 (ppm)	0.56	0.4869 (ppm)	5392.1040
2/21/2018 20:52:47	LCSW-308555	Na (588.995 nm)	19.2591 (ppm)	0.50	19.2591 (ppm)	1065690.0440
2/21/2018 20:52:47	LCSW-308555	Ni (230.299 nm)	0.4945 (ppm)	0.85	0.4945 (ppm)	3526.9135
2/21/2018 20:52:47	LCSW-308555	Pb (220.353 nm)	0.4960 (ppm)	0.39	0.4960 (ppm)	1179.4497
2/21/2018 20:52:47	LCSW-308555	Sb (217.582 nm)	0.4585 (ppm)	0.45	0.4585 (ppm)	746.7818
2/21/2018 20:52:47	LCSW-308555	Se (196.026 nm)	0.9912 (ppm)	0.27	0.9912 (ppm)	998.1419
2/21/2018 20:52:47	LCSW-308555	Sn (189.925 nm)	4.8234 (ppm)	0.92	4.8234 (ppm)	6253.8917
2/21/2018 20:52:47	LCSW-308555	Sr (216.596 nm)	2.0090 (ppm)	0.99	2.0090 (ppm)	29452.8433
2/21/2018 20:52:47	LCSW-308555	Ti (336.122 nm)	0.4948 (ppm)	0.23	0.4948 (ppm)	112033.9014
2/21/2018 20:52:47	LCSW-308555	Ti (351.923 nm)	1.8623 (ppm)	0.17	1.8623 (ppm)	5766.4892
2/21/2018 20:52:47	LCSW-308555	V (292.401 nm)	0.4852 (ppm)	0.48	0.4852 (ppm)	18986.5048
2/21/2018 20:52:47	LCSW-308555	Y (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	990153.04
2/21/2018 20:52:47	LCSW-308555	Y_R (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	990955.51
2/21/2018 20:52:47	LCSW-308555	Zn (213.857 nm)	0.4798 (ppm)	0.64	0.4798 (ppm)	15229.6194
2/21/2018 20:56:08	R1801311-005 10X	Ag (328.068 nm)	-0.0001 u (ppm)	51.60	-0.0001 (ppm)	-106.9649
2/21/2018 20:56:08	R1801311-005 10X	Al (394.401 nm)	0.0503 (ppm)	1.78	0.0503 (ppm)	808.2371
2/21/2018 20:56:08	R1801311-005 10X	As (188.980 nm)	0.0013 (ppm)	89.60	0.0013 (ppm)	-2.0248
2/21/2018 20:56:08	R1801311-005 10X	B (249.772 nm)	0.0164 (ppm)	0.62	0.0164 (ppm)	587.0907
2/21/2018 20:56:08	R1801311-005 10X	Ba (230.424 nm)	0.0609 (ppm)	0.60	0.0609 (ppm)	2175.3778
2/21/2018 20:56:08	R1801311-005 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-579.9323
2/21/2018 20:56:08	R1801311-005 10X	Ca (227.547 nm)	1411.5461 o (ppm)	0.03	1411.5461 (ppm)	97087.0306
2/21/2018 20:56:08	R1801311-005 10X	Cd (214.439 nm)	0.0002 (ppm)	39.88	0.0002 (ppm)	20.5295
2/21/2018 20:56:08	R1801311-005 10X	Co (230.786 nm)	0.0004 (ppm)	52.85	0.0004 (ppm)	-0.9834
2/21/2018 20:56:08	R1801311-005 10X	Cr (267.716 nm)	-0.0007 u (ppm)	16.27	-0.0007 (ppm)	-47.4668
2/21/2018 20:56:08	R1801311-005 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	26.5975
2/21/2018 20:56:08	R1801311-005 10X	Fe (234.350 nm)	7.4011 (ppm)	0.36	7.4011 (ppm)	85672.6135
2/21/2018 20:56:08	R1801311-005 10X	K (766.491 nm)	21.0952 (ppm)	0.92	21.0952 (ppm)	77921.0735
2/21/2018 20:56:08	R1801311-005 10X	Mg (279.078 nm)	21.9587 (ppm)	0.65	21.9587 (ppm)	46794.5529
2/21/2018 20:56:08	R1801311-005 10X	Mn (257.610 nm)	0.6064 (ppm)	0.62	0.6064 (ppm)	200890.6866
2/21/2018 20:56:08	R1801311-005 10X	Mo (202.032 nm)	0.0007 (ppm)	29.35	0.0007 (ppm)	14.1761
2/21/2018 20:56:08	R1801311-005 10X	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/21/2018 20:56:08	R1801311-005 10X	Ni (230.299 nm)	-0.0008 u (ppm)	55.97	-0.0008 (ppm)	-27.7744
2/21/2018 20:56:08	R1801311-005 10X	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.0526
2/21/2018 20:56:08	R1801311-005 10X	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.2843
2/21/2018 20:56:08	R1801311-005 10X	Se (196.026 nm)	-0.0041 u (ppm)	> 100.00	-0.0041 (ppm)	-4.9621
2/21/2018 20:56:08	R1801311-005 10X	Sn (189.925 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.7922
2/21/2018 20:56:08	R1801311-005 10X	Sr (216.596 nm)	4.8583 (ppm)	1.19	4.8583 (ppm)	71227.7675
2/21/2018 20:56:08	R1801311-005 10X	Ti (336.122 nm)	0.0077 (ppm)	1.13	0.0077 (ppm)	1289.7133
2/21/2018 20:56:08	R1801311-005 10X	Ti (351.923 nm)	0.0517 (ppm)	9.11	0.0517 (ppm)	159.2862
2/21/2018 20:56:08	R1801311-005 10X	V (292.401 nm)	0.0008 (ppm)	38.35	0.0008 (ppm)	120.0076
2/21/2018 20:56:08	R1801311-005 10X	Y (360.074 nm)	0.79 (Ratio)	0.54	0.79 (Ratio)	774934.51
2/21/2018 20:56:08	R1801311-005 10X	Y_R (360.074 nm)	0.79 (Ratio)	0.54	0.79 (Ratio)	775661.76
2/21/2018 20:56:08	R1801311-005 10X	Zn (213.857 nm)	0.0058 (ppm)	1.57	0.0058 (ppm)	155.6939
2/21/2018 20:59:29	R1801311-006 10X	Ag (328.068 nm)	-0.0002 u (ppm)	38.19	-0.0002 (ppm)	-114.7688
2/21/2018 20:59:29	R1801311-006 10X	Al (394.401 nm)	0.0513 (ppm)	1.53	0.0513 (ppm)	821.6870
2/21/2018 20:59:29	R1801311-006 10X	As (188.980 nm)	0.0042 u (ppm)	> 100.00	0.0042 (ppm)	0.8446

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 20:59:29	R1801311-006 10X	B (249.772 nm)	0.0061 (ppm)	1.53	0.0061 (ppm)	264.5954
2/21/2018 20:59:29	R1801311-006 10X	Ba (230.424 nm)	0.0681 (ppm)	0.94	0.0681 (ppm)	2429.7750
2/21/2018 20:59:29	R1801311-006 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-579.8873
2/21/2018 20:59:29	R1801311-006 10X	Ca (227.547 nm)	1271.4993 o (ppm)	0.72	1271.4993 (ppm)	87455.2898
2/21/2018 20:59:29	R1801311-006 10X	Cd (214.439 nm)	0.0002 (ppm)	24.84	0.0002 (ppm)	19.7272
2/21/2018 20:59:29	R1801311-006 10X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-2.9175
2/21/2018 20:59:29	R1801311-006 10X	Cr (267.716 nm)	-0.0009 u (ppm)	25.87	-0.0009 (ppm)	-53.4701
2/21/2018 20:59:29	R1801311-006 10X	Cu (327.395 nm)	-0.0001 u (ppm)	61.12	-0.0001 (ppm)	18.2737
2/21/2018 20:59:29	R1801311-006 10X	Fe (234.350 nm)	4.8298 (ppm)	1.04	4.8298 (ppm)	55921.5913
2/21/2018 20:59:29	R1801311-006 10X	K (766.491 nm)	18.1096 (ppm)	0.65	18.1096 (ppm)	66891.0792
2/21/2018 20:59:29	R1801311-006 10X	Mg (279.078 nm)	18.9492 (ppm)	1.03	18.9492 (ppm)	40380.5884
2/21/2018 20:59:29	R1801311-006 10X	Mn (257.610 nm)	1.3209 (ppm)	1.01	1.3209 (ppm)	437619.2454
2/21/2018 20:59:29	R1801311-006 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.9338
2/21/2018 20:59:29	R1801311-006 10X	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/21/2018 20:59:29	R1801311-006 10X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.6528
2/21/2018 20:59:29	R1801311-006 10X	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	2.9226
2/21/2018 20:59:29	R1801311-006 10X	Sb (217.582 nm)	0.0013 (ppm)	85.34	0.0013 (ppm)	1.7231
2/21/2018 20:59:29	R1801311-006 10X	Se (196.026 nm)	-0.0029 u (ppm)	63.90	-0.0029 (ppm)	-3.7771
2/21/2018 20:59:29	R1801311-006 10X	Sn (189.925 nm)	-0.0025 u (ppm)	73.97	-0.0025 (ppm)	-3.8235
2/21/2018 20:59:29	R1801311-006 10X	Sr (216.596 nm)	3.6589 (ppm)	1.92	3.6589 (ppm)	53641.9980
2/21/2018 20:59:29	R1801311-006 10X	Ti (336.122 nm)	0.0068 (ppm)	1.91	0.0068 (ppm)	1081.6720
2/21/2018 20:59:29	R1801311-006 10X	Tl (351.923 nm)	0.0441 (ppm)	7.17	0.0441 (ppm)	135.6820
2/21/2018 20:59:29	R1801311-006 10X	V (292.401 nm)	0.0005 (ppm)	18.42	0.0005 (ppm)	109.0139
2/21/2018 20:59:29	R1801311-006 10X	Y (360.074 nm)	0.80 (Ratio)	0.25	0.80 (Ratio)	786613.18
2/21/2018 20:59:29	R1801311-006 10X	Y_R (360.074 nm)	0.80 (Ratio)	0.25	0.80 (Ratio)	787355.70
2/21/2018 20:59:29	R1801311-006 10X	Zn (213.857 nm)	0.0046 (ppm)	2.49	0.0046 (ppm)	116.8947
2/21/2018 21:02:50	R1801311-007 10X	Ag (328.068 nm)	-0.0001 u (ppm)	41.29	-0.0001 (ppm)	-108.0584
2/21/2018 21:02:50	R1801311-007 10X	Al (394.401 nm)	0.0370 (ppm)	0.86	0.0370 (ppm)	618.1868
2/21/2018 21:02:50	R1801311-007 10X	As (188.980 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-4.9310
2/21/2018 21:02:50	R1801311-007 10X	B (249.772 nm)	0.0011 (ppm)	13.29	0.0011 (ppm)	109.6442
2/21/2018 21:02:50	R1801311-007 10X	Ba (230.424 nm)	0.1675 (ppm)	0.29	0.1675 (ppm)	5972.2710
2/21/2018 21:02:50	R1801311-007 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.0445
2/21/2018 21:02:50	R1801311-007 10X	Ca (227.547 nm)	558.3637 o (ppm)	0.27	558.3637 (ppm)	38409.2737
2/21/2018 21:02:50	R1801311-007 10X	Cd (214.439 nm)	0.0002 (ppm)	14.75	0.0002 (ppm)	19.5379
2/21/2018 21:02:50	R1801311-007 10X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-3.6473
2/21/2018 21:02:50	R1801311-007 10X	Cr (267.716 nm)	-0.0004 u (ppm)	29.94	-0.0004 (ppm)	-30.2155
2/21/2018 21:02:50	R1801311-007 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	26.4831
2/21/2018 21:02:50	R1801311-007 10X	Fe (234.350 nm)	0.0030 (ppm)	11.23	0.0030 (ppm)	72.7112
2/21/2018 21:02:50	R1801311-007 10X	K (766.491 nm)	27.5291 (ppm)	0.38	27.5291 (ppm)	101690.3733
2/21/2018 21:02:50	R1801311-007 10X	Mg (279.078 nm)	0.0053 (ppm)	31.14	0.0053 (ppm)	6.3143
2/21/2018 21:02:50	R1801311-007 10X	Mn (257.610 nm)	0.0003 (ppm)	5.83	0.0003 (ppm)	84.2570
2/21/2018 21:02:50	R1801311-007 10X	Mo (202.032 nm)	0.0004 (ppm)	81.29	0.0004 (ppm)	11.4240
2/21/2018 21:02:50	R1801311-007 10X	Na (588.995 nm)	276.5949 o (ppm)	0.38	276.5949 (ppm)	15362434.6841
2/21/2018 21:02:50	R1801311-007 10X	Ni (230.299 nm)	0.0015 (ppm)	37.93	0.0015 (ppm)	-11.4612
2/21/2018 21:02:50	R1801311-007 10X	Pb (220.353 nm)	0.0010 (ppm)	42.24	0.0010 (ppm)	7.2102
2/21/2018 21:02:50	R1801311-007 10X	Sb (217.582 nm)	0.0012 (ppm)	76.38	0.0012 (ppm)	1.5538
2/21/2018 21:02:50	R1801311-007 10X	Se (196.026 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-2.6671
2/21/2018 21:02:50	R1801311-007 10X	Sn (189.925 nm)	-0.0009 u (ppm)	72.64	-0.0009 (ppm)	-1.7489
2/21/2018 21:02:50	R1801311-007 10X	Sr (216.596 nm)	2.6846 (ppm)	0.88	2.6846 (ppm)	39358.1979
2/21/2018 21:02:50	R1801311-007 10X	Ti (336.122 nm)	0.0029 (ppm)	2.34	0.0029 (ppm)	186.6393
2/21/2018 21:02:50	R1801311-007 10X	Tl (351.923 nm)	0.0205 (ppm)	15.62	0.0205 (ppm)	62.6486

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:02:50	R1801311-007 10X	V (292.401 nm)	0.0005 (ppm)	20.57	0.0005 (ppm)	107.9045
2/21/2018 21:02:50	R1801311-007 10X	Y (360.074 nm)	0.88 (Ratio)	0.75	0.88 (Ratio)	861709.12
2/21/2018 21:02:50	R1801311-007 10X	Y_R (360.074 nm)	0.88 (Ratio)	0.75	0.88 (Ratio)	862494.52
2/21/2018 21:02:50	R1801311-007 10X	Zn (213.857 nm)	0.0009 (ppm)	9.55	0.0009 (ppm)	-0.0561
2/21/2018 21:06:12	R1801311-008 10X	Ag (328.068 nm)	-0.0001 u (ppm)	8.38	-0.0001 (ppm)	-112.5561
2/21/2018 21:06:12	R1801311-008 10X	Al (394.401 nm)	0.0217 (ppm)	1.74	0.0217 (ppm)	399.7717
2/21/2018 21:06:12	R1801311-008 10X	As (188.980 nm)	0.0020 (ppm)	35.04	0.0020 (ppm)	-1.3003
2/21/2018 21:06:12	R1801311-008 10X	B (249.772 nm)	0.0035 (ppm)	3.59	0.0035 (ppm)	185.0725
2/21/2018 21:06:12	R1801311-008 10X	Ba (230.424 nm)	0.0162 (ppm)	0.75	0.0162 (ppm)	581.4670
2/21/2018 21:06:12	R1801311-008 10X	Be (313.107 nm)	0.0000 (ppm)	29.15	0.0000 (ppm)	-541.8444
2/21/2018 21:06:12	R1801311-008 10X	Ca (227.547 nm)	40.3426 (ppm)	0.23	40.3426 (ppm)	2782.2940
2/21/2018 21:06:12	R1801311-008 10X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	15.8117
2/21/2018 21:06:12	R1801311-008 10X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.7270
2/21/2018 21:06:12	R1801311-008 10X	Cr (267.716 nm)	0.0005 (ppm)	6.48	0.0005 (ppm)	15.4506
2/21/2018 21:06:12	R1801311-008 10X	Cu (327.395 nm)	-0.0001 u (ppm)	60.83	-0.0001 (ppm)	22.5642
2/21/2018 21:06:12	R1801311-008 10X	Fe (234.350 nm)	0.2841 (ppm)	0.42	0.2841 (ppm)	3325.8233
2/21/2018 21:06:12	R1801311-008 10X	K (766.491 nm)	2.8539 (ppm)	0.38	2.8539 (ppm)	10530.4557
2/21/2018 21:06:12	R1801311-008 10X	Mg (279.078 nm)	0.3998 (ppm)	0.56	0.3998 (ppm)	847.0211
2/21/2018 21:06:12	R1801311-008 10X	Mn (257.610 nm)	0.0228 (ppm)	0.26	0.0228 (ppm)	7565.4889
2/21/2018 21:06:12	R1801311-008 10X	Mo (202.032 nm)	0.0009 (ppm)	55.18	0.0009 (ppm)	17.0674
2/21/2018 21:06:12	R1801311-008 10X	Na (588.995 nm)	26.0685 (ppm)	0.40	26.0685 (ppm)	1443995.9825
2/21/2018 21:06:12	R1801311-008 10X	Ni (230.299 nm)	0.0004 (ppm)	73.76	0.0004 (ppm)	-19.2673
2/21/2018 21:06:12	R1801311-008 10X	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.0935
2/21/2018 21:06:12	R1801311-008 10X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.4179
2/21/2018 21:06:12	R1801311-008 10X	Se (196.026 nm)	0.0013 (ppm)	34.22	0.0013 (ppm)	0.5121
2/21/2018 21:06:12	R1801311-008 10X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.7003
2/21/2018 21:06:12	R1801311-008 10X	Sr (216.596 nm)	0.2463 (ppm)	0.54	0.2463 (ppm)	3608.5328
2/21/2018 21:06:12	R1801311-008 10X	Ti (336.122 nm)	0.0002 (ppm)	21.03	0.0002 (ppm)	-422.6483
2/21/2018 21:06:12	R1801311-008 10X	Tl (351.923 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	5.0179
2/21/2018 21:06:12	R1801311-008 10X	V (292.401 nm)	0.0002 (ppm)	86.11	0.0002 (ppm)	96.9898
2/21/2018 21:06:12	R1801311-008 10X	Y (360.074 nm)	0.99 (Ratio)	0.65	0.99 (Ratio)	974987.14
2/21/2018 21:06:12	R1801311-008 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.66	0.99 (Ratio)	975743.98
2/21/2018 21:06:12	R1801311-008 10X	Zn (213.857 nm)	0.0009 (ppm)	3.21	0.0009 (ppm)	1.3628
2/21/2018 21:09:33	R1801311-009 10X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-109.6788
2/21/2018 21:09:33	R1801311-009 10X	Al (394.401 nm)	0.0609 (ppm)	3.74	0.0609 (ppm)	959.4041
2/21/2018 21:09:33	R1801311-009 10X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.5106
2/21/2018 21:09:33	R1801311-009 10X	B (249.772 nm)	0.1058 (ppm)	0.44	0.1058 (ppm)	3386.3060
2/21/2018 21:09:33	R1801311-009 10X	Ba (230.424 nm)	0.0805 (ppm)	0.59	0.0805 (ppm)	2873.6906
2/21/2018 21:09:33	R1801311-009 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-596.1332
2/21/2018 21:09:33	R1801311-009 10X	Ca (227.547 nm)	2227.3822 o (ppm)	0.77	2227.3822 (ppm)	153196.2829
2/21/2018 21:09:33	R1801311-009 10X	Cd (214.439 nm)	0.0004 (ppm)	57.84	0.0004 (ppm)	25.5324
2/21/2018 21:09:33	R1801311-009 10X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.4619
2/21/2018 21:09:33	R1801311-009 10X	Cr (267.716 nm)	-0.0007 u (ppm)	6.71	-0.0007 (ppm)	-44.6408
2/21/2018 21:09:33	R1801311-009 10X	Cu (327.395 nm)	0.0002 (ppm)	42.58	0.0002 (ppm)	42.4621
2/21/2018 21:09:33	R1801311-009 10X	Fe (234.350 nm)	8.0874 (ppm)	0.75	8.0874 (ppm)	93612.7344
2/21/2018 21:09:33	R1801311-009 10X	K (766.491 nm)	34.5515 (ppm)	0.90	34.5515 (ppm)	127634.0186
2/21/2018 21:09:33	R1801311-009 10X	Mg (279.078 nm)	16.6557 (ppm)	0.34	16.6557 (ppm)	35492.5984
2/21/2018 21:09:33	R1801311-009 10X	Mn (257.610 nm)	0.6265 (ppm)	0.38	0.6265 (ppm)	207560.8520
2/21/2018 21:09:33	R1801311-009 10X	Mo (202.032 nm)	0.0004 (ppm)	68.26	0.0004 (ppm)	10.7628
2/21/2018 21:09:33	R1801311-009 10X	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/21/2018 21:09:33	R1801311-009 10X	Ni (230.299 nm)	-0.0008 u (ppm)	72.07	-0.0008 (ppm)	-28.1217

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:09:33	R1801311-009 10X	Pb (220.353 nm)	0.0019 (ppm)	53.27	0.0019 (ppm)	9.4008
2/21/2018 21:09:33	R1801311-009 10X	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.8248
2/21/2018 21:09:33	R1801311-009 10X	Se (196.026 nm)	-0.0069 u (ppm)	> 100.00	-0.0069 (ppm)	-7.7540
2/21/2018 21:09:33	R1801311-009 10X	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	1.1288
2/21/2018 21:09:33	R1801311-009 10X	Sr (216.596 nm)	15.8457 o (ppm)	0.83	15.8457 (ppm)	232317.8841
2/21/2018 21:09:33	R1801311-009 10X	Ti (336.122 nm)	0.0117 (ppm)	0.33	0.0117 (ppm)	2190.1166
2/21/2018 21:09:33	R1801311-009 10X	Tl (351.923 nm)	0.0777 (ppm)	0.41	0.0777 (ppm)	239.8115
2/21/2018 21:09:33	R1801311-009 10X	V (292.401 nm)	0.0005 (ppm)	46.64	0.0005 (ppm)	109.2861
2/21/2018 21:09:33	R1801311-009 10X	Y (360.074 nm)	0.73 (Ratio)	1.24	0.73 (Ratio)	713948.39
2/21/2018 21:09:33	R1801311-009 10X	Y_R (360.074 nm)	0.73 (Ratio)	1.24	0.73 (Ratio)	714719.46
2/21/2018 21:09:33	R1801311-009 10X	Zn (213.857 nm)	0.0029 (ppm)	5.26	0.0029 (ppm)	64.5274
2/21/2018 21:12:54	R1801311-010 10X	Ag (328.068 nm)	-0.0002 u (ppm)	57.99	-0.0002 (ppm)	-114.7019
2/21/2018 21:12:54	R1801311-010 10X	Al (394.401 nm)	0.0537 (ppm)	1.85	0.0537 (ppm)	856.5197
2/21/2018 21:12:54	R1801311-010 10X	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-3.7258
2/21/2018 21:12:54	R1801311-010 10X	B (249.772 nm)	0.3035 (ppm)	0.12	0.3035 (ppm)	9573.7960
2/21/2018 21:12:54	R1801311-010 10X	Ba (230.424 nm)	0.0688 (ppm)	0.09	0.0688 (ppm)	2457.2586
2/21/2018 21:12:54	R1801311-010 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-584.3675
2/21/2018 21:12:54	R1801311-010 10X	Ce (227.547 nm)	2598.9481 o (ppm)	0.33	2598.9481 (ppm)	178750.7872
2/21/2018 21:12:54	R1801311-010 10X	Cd (214.439 nm)	0.0004 (ppm)	33.53	0.0004 (ppm)	24.0947
2/21/2018 21:12:54	R1801311-010 10X	Co (230.786 nm)	0.0017 (ppm)	24.06	0.0017 (ppm)	13.6565
2/21/2018 21:12:54	R1801311-010 10X	Cr (267.716 nm)	-0.0009 u (ppm)	3.75	-0.0009 (ppm)	-53.7882
2/21/2018 21:12:54	R1801311-010 10X	Cu (327.395 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	38.8501
2/21/2018 21:12:54	R1801311-010 10X	Fe (234.350 nm)	2.3724 (ppm)	0.22	2.3724 (ppm)	27488.1956
2/21/2018 21:12:54	R1801311-010 10X	K (766.491 nm)	39.1223 (ppm)	0.61	39.1223 (ppm)	144520.2501
2/21/2018 21:12:54	R1801311-010 10X	Mg (279.078 nm)	19.5410 (ppm)	0.28	19.5410 (ppm)	41641.9658
2/21/2018 21:12:54	R1801311-010 10X	Mn (257.610 nm)	1.1949 (ppm)	0.22	1.1949 (ppm)	395877.5951
2/21/2018 21:12:54	R1801311-010 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.1555
2/21/2018 21:12:54	R1801311-010 10X	Nb (588.995 nm)	### (ppm)	N/A	### (ppm)	###
2/21/2018 21:12:54	R1801311-010 10X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.7598
2/21/2018 21:12:54	R1801311-010 10X	Pb (220.353 nm)	0.0011 (ppm)	53.34	0.0011 (ppm)	7.4679
2/21/2018 21:12:54	R1801311-010 10X	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.8574
2/21/2018 21:12:54	R1801311-010 10X	Se (196.026 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.5071
2/21/2018 21:12:54	R1801311-010 10X	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.2866
2/21/2018 21:12:54	R1801311-010 10X	Sr (216.596 nm)	7.4399 o (ppm)	2.38	7.4399 (ppm)	109077.0178
2/21/2018 21:12:54	R1801311-010 10X	Ti (336.122 nm)	0.0138 (ppm)	0.48	0.0138 (ppm)	2660.3433
2/21/2018 21:12:54	R1801311-010 10X	Tl (351.923 nm)	0.0940 (ppm)	2.00	0.0940 (ppm)	290.2076
2/21/2018 21:12:54	R1801311-010 10X	V (292.401 nm)	0.0002 (ppm)	90.33	0.0002 (ppm)	96.9724
2/21/2018 21:12:54	R1801311-010 10X	Y (360.074 nm)	0.73 (Ratio)	0.63	0.73 (Ratio)	717254.62
2/21/2018 21:12:54	R1801311-010 10X	Y_R (360.074 nm)	0.73 (Ratio)	0.63	0.73 (Ratio)	717998.64
2/21/2018 21:12:54	R1801311-010 10X	Zn (213.857 nm)	0.0023 (ppm)	8.00	0.0023 (ppm)	44.2404
2/21/2018 21:16:15	R1801311-013 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-100.8706
2/21/2018 21:16:15	R1801311-013 10X	Al (394.401 nm)	0.0559 (ppm)	3.16	0.0559 (ppm)	887.3753
2/21/2018 21:16:15	R1801311-013 10X	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-3.9825
2/21/2018 21:16:15	R1801311-013 10X	B (249.772 nm)	0.2939 (ppm)	0.51	0.2939 (ppm)	9272.9369
2/21/2018 21:16:15	R1801311-013 10X	Ba (230.424 nm)	0.0212 (ppm)	1.62	0.0212 (ppm)	758.8726
2/21/2018 21:16:15	R1801311-013 10X	Be (313.107 nm)	0.0000 (ppm)	32.16	0.0000 (ppm)	-603.6932
2/21/2018 21:16:15	R1801311-013 10X	Ca (227.547 nm)	1036.5024 o (ppm)	0.78	1036.5024 (ppm)	71293.3372
2/21/2018 21:16:15	R1801311-013 10X	Cd (214.439 nm)	0.0001 (ppm)	62.16	0.0001 (ppm)	17.0172
2/21/2018 21:16:15	R1801311-013 10X	Co (230.786 nm)	0.0006 (ppm)	11.96	0.0006 (ppm)	1.1082
2/21/2018 21:16:15	R1801311-013 10X	Cr (267.716 nm)	-0.0006 u (ppm)	4.09	-0.0006 (ppm)	-42.9708
2/21/2018 21:16:15	R1801311-013 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	24.1912

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:16:15	R1801311-013 10X	Fe (234.350 nm)	0.9964 (ppm)	0.49	0.9964 (ppm)	11566.6543
2/21/2018 21:16:15	R1801311-013 10X	K (766.491 nm)	57.6631 o (ppm)	1.12	57.6631 (ppm)	213017.6567
2/21/2018 21:16:15	R1801311-013 10X	Mg (279.078 nm)	69.7005 o (ppm)	0.45	69.7005 (ppm)	148544.3860
2/21/2018 21:16:15	R1801311-013 10X	Mn (257.610 nm)	0.6309 (ppm)	0.52	0.6309 (ppm)	209013.3477
2/21/2018 21:16:15	R1801311-013 10X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.3139
2/21/2018 21:16:15	R1801311-013 10X	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/21/2018 21:16:15	R1801311-013 10X	Ni (230.299 nm)	-0.0007 u (ppm)	68.21	-0.0007 (ppm)	-27.1277
2/21/2018 21:16:15	R1801311-013 10X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.3621
2/21/2018 21:16:15	R1801311-013 10X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.4275
2/21/2018 21:16:15	R1801311-013 10X	Se (196.026 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-3.3287
2/21/2018 21:16:15	R1801311-013 10X	Sn (189.925 nm)	-0.0023 u (ppm)	81.65	-0.0023 (ppm)	-3.5092
2/21/2018 21:16:15	R1801311-013 10X	Sr (216.596 nm)	13.4453 o (ppm)	1.71	13.4453 (ppm)	197125.6659
2/21/2018 21:16:15	R1801311-013 10X	Ti (336.122 nm)	0.0053 (ppm)	1.63	0.0053 (ppm)	745.7567
2/21/2018 21:16:15	R1801311-013 10X	Ti (351.923 nm)	0.0368 (ppm)	7.57	0.0368 (ppm)	113.0403
2/21/2018 21:16:15	R1801311-013 10X	V (292.401 nm)	0.0004 (ppm)	56.01	0.0004 (ppm)	104.5904
2/21/2018 21:16:15	R1801311-013 10X	Y (360.074 nm)	0.80 (Ratio)	1.02	0.80 (Ratio)	788666.38
2/21/2018 21:16:15	R1801311-013 10X	Y_R (360.074 nm)	0.80 (Ratio)	1.02	0.80 (Ratio)	789437.98
2/21/2018 21:16:15	R1801311-013 10X	Zn (213.857 nm)	0.0016 (ppm)	8.44	0.0016 (ppm)	24.4171
2/21/2018 21:19:36	R1801311-003 20X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-108.4485
2/21/2018 21:19:36	R1801311-003 20X	Al (394.401 nm)	0.0323 (ppm)	1.65	0.0323 (ppm)	550.4729
2/21/2018 21:19:36	R1801311-003 20X	As (188.980 nm)	0.0025 (ppm)	45.25	0.0025 (ppm)	-0.8752
2/21/2018 21:19:36	R1801311-003 20X	B (249.772 nm)	0.0018 (ppm)	1.32	0.0018 (ppm)	129.9539
2/21/2018 21:19:36	R1801311-003 20X	Ba (230.424 nm)	0.0051 (ppm)	1.45	0.0051 (ppm)	185.3434
2/21/2018 21:19:36	R1801311-003 20X	Be (313.107 nm)	0.0000 (ppm)	13.96	0.0000 (ppm)	-551.0122
2/21/2018 21:19:36	R1801311-003 20X	Ca (227.547 nm)	55.1896 o (ppm)	0.22	55.1896 (ppm)	3803.3955
2/21/2018 21:19:36	R1801311-003 20X	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	14.3182
2/21/2018 21:19:36	R1801311-003 20X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.4442
2/21/2018 21:19:36	R1801311-003 20X	Cr (267.716 nm)	-0.0002 u (ppm)	17.72	-0.0002 (ppm)	-17.7445
2/21/2018 21:19:36	R1801311-003 20X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	27.8729
2/21/2018 21:19:36	R1801311-003 20X	Fe (234.350 nm)	0.0055 (ppm)	2.13	0.0055 (ppm)	102.2416
2/21/2018 21:19:36	R1801311-003 20X	K (766.491 nm)	3.2174 (ppm)	0.54	3.2174 (ppm)	11873.3220
2/21/2018 21:19:36	R1801311-003 20X	Mg (279.078 nm)	0.0297 (ppm)	4.07	0.0297 (ppm)	58.3916
2/21/2018 21:19:36	R1801311-003 20X	Mn (257.610 nm)	0.0037 (ppm)	0.50	0.0037 (ppm)	1225.9370
2/21/2018 21:19:36	R1801311-003 20X	Mo (202.032 nm)	0.0008 (ppm)	35.51	0.0008 (ppm)	16.0878
2/21/2018 21:19:36	R1801311-003 20X	Na (588.995 nm)	24.1306 (ppm)	0.58	24.1306 (ppm)	1336332.4065
2/21/2018 21:19:36	R1801311-003 20X	Ni (230.299 nm)	-0.0002 u (ppm)	46.12	-0.0002 (ppm)	-23.8686
2/21/2018 21:19:36	R1801311-003 20X	Pb (220.353 nm)	-0.0012 u (ppm)	65.61	-0.0012 (ppm)	1.8515
2/21/2018 21:19:36	R1801311-003 20X	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.5001
2/21/2018 21:19:36	R1801311-003 20X	Se (196.026 nm)	-0.0027 u (ppm)	37.80	-0.0027 (ppm)	-3.5342
2/21/2018 21:19:36	R1801311-003 20X	Sn (189.925 nm)	0.0010 (ppm)	86.90	0.0010 (ppm)	0.7094
2/21/2018 21:19:36	R1801311-003 20X	Sr (216.596 nm)	0.2316 (ppm)	0.66	0.2316 (ppm)	3394.1733
2/21/2018 21:19:36	R1801311-003 20X	Ti (336.122 nm)	0.0003 (ppm)	6.83	0.0003 (ppm)	-389.5446
2/21/2018 21:19:36	R1801311-003 20X	Ti (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.8984
2/21/2018 21:19:36	R1801311-003 20X	V (292.401 nm)	0.0005 (ppm)	13.64	0.0005 (ppm)	109.6233
2/21/2018 21:19:36	R1801311-003 20X	Y (360.074 nm)	0.99 (Ratio)	0.55	0.99 (Ratio)	971667.08
2/21/2018 21:19:36	R1801311-003 20X	Y_R (360.074 nm)	0.99 (Ratio)	0.55	0.99 (Ratio)	972418.24
2/21/2018 21:19:36	R1801311-003 20X	Zn (213.857 nm)	0.0008 (ppm)	12.82	0.0008 (ppm)	-3.5164
2/21/2018 21:22:56	Continuing Calibration Verification	Ag (328.068 nm)	0.4827 (ppm)	0.76	0.4827 (ppm)	37640.0565
2/21/2018 21:22:56	Continuing Calibration Verification	Al (394.401 nm)	9.4867 (ppm)	0.63	9.4867 (ppm)	135603.1449
2/21/2018 21:22:56	Continuing Calibration Verification	As (188.980 nm)	0.9293 (ppm)	0.79	0.9293 (ppm)	909.3790
2/21/2018 21:22:56	Continuing Calibration Verification	B (249.772 nm)	2.3902 (ppm)	0.73	2.3902 (ppm)	74897.0793

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:22:56	Continuing Calibration Verification	Ba (230.424 nm)	10.2290 (ppm)	0.97	10.2290 (ppm)	364384.1305
2/21/2018 21:22:56	Continuing Calibration Verification	Be (313.107 nm)	0.2490 (ppm)	0.80	0.2490 (ppm)	393141.3818
2/21/2018 21:22:56	Continuing Calibration Verification	Ca (227.547 nm)	23.5830 (ppm)	0.71	23.5830 (ppm)	1629.6469
2/21/2018 21:22:56	Continuing Calibration Verification	Cd (214.439 nm)	0.4834 (ppm)	1.14	0.4834 (ppm)	11036.0019
2/21/2018 21:22:56	Continuing Calibration Verification	Co (230.786 nm)	2.5023 (ppm)	0.94	2.5023 (ppm)	27627.0912
2/21/2018 21:22:56	Continuing Calibration Verification	Cr (267.716 nm)	0.5152 (ppm)	0.92	0.5152 (ppm)	26455.9328
2/21/2018 21:22:56	Continuing Calibration Verification	Cu (327.395 nm)	1.1976 (ppm)	0.49	1.1976 (ppm)	83316.3369
2/21/2018 21:22:56	Continuing Calibration Verification	Fe (234.350 nm)	4.9643 (ppm)	0.97	4.9643 (ppm)	57477.6174
2/21/2018 21:22:56	Continuing Calibration Verification	K (766.491 nm)	24.4502 (ppm)	0.64	24.4502 (ppm)	90315.8645
2/21/2018 21:22:56	Continuing Calibration Verification	Mg (279.078 nm)	24.4700 (ppm)	0.92	24.4700 (ppm)	52146.8647
2/21/2018 21:22:56	Continuing Calibration Verification	Mn (257.610 nm)	0.7570 (ppm)	0.82	0.7570 (ppm)	250790.1764
2/21/2018 21:22:56	Continuing Calibration Verification	Mo (202.032 nm)	2.3903 (ppm)	0.95	2.3903 (ppm)	26442.7941
2/21/2018 21:22:56	Continuing Calibration Verification	Na (588.995 nm)	24.6166 (ppm)	0.82	24.6166 (ppm)	1363337.8790
2/21/2018 21:22:56	Continuing Calibration Verification	Ni (230.299 nm)	2.0199 (ppm)	1.00	2.0199 (ppm)	14475.6260
2/21/2018 21:22:56	Continuing Calibration Verification	Pb (220.353 nm)	0.4853 (ppm)	1.17	0.4853 (ppm)	1154.2663
2/21/2018 21:22:56	Continuing Calibration Verification	Sb (217.582 nm)	4.7005 (ppm)	0.78	4.7005 (ppm)	7658.2869
2/21/2018 21:22:56	Continuing Calibration Verification	Se (196.026 nm)	0.4669 (ppm)	1.57	0.4669 (ppm)	469.7501
2/21/2018 21:22:56	Continuing Calibration Verification	Sn (189.925 nm)	4.8543 (ppm)	1.29	4.8543 (ppm)	6294.0202
2/21/2018 21:22:56	Continuing Calibration Verification	Sr (216.596 nm)	2.4976 (ppm)	1.29	2.4976 (ppm)	36616.3703
2/21/2018 21:22:56	Continuing Calibration Verification	Ti (336.122 nm)	2.4733 (ppm)	0.71	2.4733 (ppm)	561904.0561
2/21/2018 21:22:56	Continuing Calibration Verification	Tl (351.923 nm)	0.9726 (ppm)	0.81	0.9726 (ppm)	3011.1334
2/21/2018 21:22:56	Continuing Calibration Verification	V (292.401 nm)	2.4653 (ppm)	0.81	2.4653 (ppm)	96119.2356
2/21/2018 21:22:56	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.71	0.98 (Ratio)	963937.03
2/21/2018 21:22:56	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.71	0.98 (Ratio)	964723.51
2/21/2018 21:22:56	Continuing Calibration Verification	Zn (213.857 nm)	0.9674 (ppm)	0.96	0.9674 (ppm)	30735.8631
2/21/2018 21:26:16	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-107.4516
2/21/2018 21:26:16	Continuing Calibration Blank	Al (394.401 nm)	0.0035 (ppm)	5.58	0.0035 (ppm)	139.2255
2/21/2018 21:26:16	Continuing Calibration Blank	As (188.980 nm)	0.0035 (ppm)	27.72	0.0035 (ppm)	0.0960
2/21/2018 21:26:16	Continuing Calibration Blank	B (249.772 nm)	0.0025 (ppm)	10.14	0.0025 (ppm)	150.9096
2/21/2018 21:26:16	Continuing Calibration Blank	Ba (230.424 nm)	0.0036 (ppm)	3.99	0.0036 (ppm)	132.3659
2/21/2018 21:26:16	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	5.55	0.0001 (ppm)	-428.2580
2/21/2018 21:26:16	Continuing Calibration Blank	Ca (227.547 nm)	-0.0162 u (ppm)	> 100.00	-0.0162 (ppm)	6.6070
2/21/2018 21:26:16	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	25.85	0.0002 (ppm)	20.6894
2/21/2018 21:26:16	Continuing Calibration Blank	Co (230.786 nm)	0.0009 (ppm)	27.97	0.0009 (ppm)	4.9045
2/21/2018 21:26:16	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	29.35	0.0002 (ppm)	-0.9867
2/21/2018 21:26:16	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	45.72	0.0003 (ppm)	49.8895
2/21/2018 21:26:16	Continuing Calibration Blank	Fe (234.350 nm)	0.0014 (ppm)	11.90	0.0014 (ppm)	54.2766
2/21/2018 21:26:16	Continuing Calibration Blank	K (766.491 nm)	0.0365 (ppm)	18.28	0.0365 (ppm)	121.7087
2/21/2018 21:26:16	Continuing Calibration Blank	Mg (279.078 nm)	0.0091 (ppm)	5.93	0.0091 (ppm)	14.3437
2/21/2018 21:26:16	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	4.35	0.0003 (ppm)	99.9029
2/21/2018 21:26:16	Continuing Calibration Blank	Mo (202.032 nm)	0.0027 (ppm)	6.35	0.0027 (ppm)	36.2398
2/21/2018 21:26:16	Continuing Calibration Blank	Na (588.995 nm)	0.0195 (ppm)	12.18	0.0195 (ppm)	-3200.7062
2/21/2018 21:26:16	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-20.4813
2/21/2018 21:26:16	Continuing Calibration Blank	Pb (220.353 nm)	0.0005 (ppm)	77.14	0.0005 (ppm)	5.8817
2/21/2018 21:26:16	Continuing Calibration Blank	Sb (217.582 nm)	0.0021 (ppm)	57.96	0.0021 (ppm)	3.1284
2/21/2018 21:26:16	Continuing Calibration Blank	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.1443
2/21/2018 21:26:16	Continuing Calibration Blank	Sn (189.925 nm)	0.0029 (ppm)	44.13	0.0029 (ppm)	3.2015
2/21/2018 21:26:16	Continuing Calibration Blank	Sr (216.596 nm)	0.0011 (ppm)	11.84	0.0011 (ppm)	14.3759
2/21/2018 21:26:16	Continuing Calibration Blank	Ti (336.122 nm)	0.0014 (ppm)	6.68	0.0014 (ppm)	-139.9791
2/21/2018 21:26:16	Continuing Calibration Blank	Tl (351.923 nm)	0.0037 (ppm)	14.89	0.0037 (ppm)	10.7694
2/21/2018 21:26:16	Continuing Calibration Blank	V (292.401 nm)	0.0008 (ppm)	14.30	0.0008 (ppm)	120.6764



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:26:16	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.63	1.03 (Ratio)	1009259.58
2/21/2018 21:26:16	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.63	1.03 (Ratio)	1010016.43
2/21/2018 21:26:16	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	5.81	0.0003 (ppm)	-17.6259
2/21/2018 21:29:37	R1801311-016 20X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.7909
2/21/2018 21:29:37	R1801311-016 20X	Al (394.401 nm)	0.0310 (ppm)	1.48	0.0310 (ppm)	531.8096
2/21/2018 21:29:37	R1801311-016 20X	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-3.0259
2/21/2018 21:29:37	R1801311-016 20X	B (249.772 nm)	0.2792 (ppm)	1.08	0.2792 (ppm)	8813.9161
2/21/2018 21:29:37	R1801311-016 20X	Ba (230.424 nm)	0.0030 (ppm)	3.74	0.0030 (ppm)	113.4957
2/21/2018 21:29:37	R1801311-016 20X	Be (313.107 nm)	0.0000 (ppm)	64.32	0.0000 (ppm)	-602.9341
2/21/2018 21:29:37	R1801311-016 20X	Ca (227.547 nm)	375.4240 o (ppm)	0.58	375.4240 (ppm)	25827.5672
2/21/2018 21:29:37	R1801311-016 20X	Cd (214.439 nm)	-0.0001 u (ppm)	52.90	-0.0001 (ppm)	14.2625
2/21/2018 21:29:37	R1801311-016 20X	Co (230.786 nm)	0.0001 (ppm)	63.02	0.0001 (ppm)	-3.9261
2/21/2018 21:29:37	R1801311-016 20X	Cr (267.716 nm)	-0.0005 u (ppm)	15.05	-0.0005 (ppm)	-34.9206
2/21/2018 21:29:37	R1801311-016 20X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	18.9408
2/21/2018 21:29:37	R1801311-016 20X	Fe (234.350 nm)	1.2624 (ppm)	1.47	1.2624 (ppm)	14644.5807
2/21/2018 21:29:37	R1801311-016 20X	K (766.491 nm)	49.5311 (ppm)	0.27	49.5311 (ppm)	182974.7559
2/21/2018 21:29:37	R1801311-016 20X	Mg (279.078 nm)	58.0946 o (ppm)	1.40	58.0946 (ppm)	123809.3380
2/21/2018 21:29:37	R1801311-016 20X	Mn (257.610 nm)	0.3878 (ppm)	1.37	0.3878 (ppm)	128473.0957
2/21/2018 21:29:37	R1801311-016 20X	Mo (202.032 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	9.6054
2/21/2018 21:29:37	R1801311-016 20X	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/21/2018 21:29:37	R1801311-016 20X	Ni (230.299 nm)	-0.0012 u (ppm)	17.49	-0.0012 (ppm)	-30.5486
2/21/2018 21:29:37	R1801311-016 20X	Pb (220.353 nm)	-0.0009 u (ppm)	87.60	-0.0009 (ppm)	2.5960
2/21/2018 21:29:37	R1801311-016 20X	Sb (217.582 nm)	0.0012 (ppm)	80.50	0.0012 (ppm)	1.6917
2/21/2018 21:29:37	R1801311-016 20X	Se (196.026 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	0.7463
2/21/2018 21:29:37	R1801311-016 20X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.6590
2/21/2018 21:29:37	R1801311-016 20X	Sr (216.596 nm)	6.8469 o (ppm)	2.20	6.8469 (ppm)	100382.6044
2/21/2018 21:29:37	R1801311-016 20X	Ti (336.122 nm)	0.0020 (ppm)	3.05	0.0020 (ppm)	-10.7131
2/21/2018 21:29:37	R1801311-016 20X	Ti (351.923 nm)	0.0129 (ppm)	14.73	0.0129 (ppm)	39.1286
2/21/2018 21:29:37	R1801311-016 20X	V (292.401 nm)	0.0006 (ppm)	47.24	0.0006 (ppm)	113.6652
2/21/2018 21:29:37	R1801311-016 20X	Y (360.074 nm)	0.86 (Ratio)	0.69	0.86 (Ratio)	842038.92
2/21/2018 21:29:37	R1801311-016 20X	Y_R (360.074 nm)	0.86 (Ratio)	0.69	0.86 (Ratio)	842897.56
2/21/2018 21:29:37	R1801311-016 20X	Zn (213.857 nm)	0.0011 (ppm)	9.52	0.0011 (ppm)	6.2374
2/21/2018 21:32:57	R1801311-004 30X	Ag (328.068 nm)	-0.0002 u (ppm)	15.60	-0.0002 (ppm)	-118.5797
2/21/2018 21:32:57	R1801311-004 30X	Al (394.401 nm)	0.0208 (ppm)	1.02	0.0208 (ppm)	387.1707
2/21/2018 21:32:57	R1801311-004 30X	As (188.980 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.4949
2/21/2018 21:32:57	R1801311-004 30X	B (249.772 nm)	0.0166 (ppm)	1.20	0.0166 (ppm)	592.1720
2/21/2018 21:32:57	R1801311-004 30X	Ba (230.424 nm)	0.0137 (ppm)	2.38	0.0137 (ppm)	492.7661
2/21/2018 21:32:57	R1801311-004 30X	Be (313.107 nm)	0.0000 (ppm)	69.83	0.0000 (ppm)	-568.8006
2/21/2018 21:32:57	R1801311-004 30X	Ca (227.547 nm)	109.4677 o (ppm)	0.14	109.4677 (ppm)	7536.3790
2/21/2018 21:32:57	R1801311-004 30X	Cd (214.439 nm)	0.0000 u (ppm)	86.05	0.0000 (ppm)	14.7360
2/21/2018 21:32:57	R1801311-004 30X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.7745
2/21/2018 21:32:57	R1801311-004 30X	Cr (267.716 nm)	-0.0002 u (ppm)	22.69	-0.0002 (ppm)	-19.2443
2/21/2018 21:32:57	R1801311-004 30X	Cu (327.395 nm)	0.0001 (ppm)	72.91	0.0001 (ppm)	35.1003
2/21/2018 21:32:57	R1801311-004 30X	Fe (234.350 nm)	0.0604 (ppm)	1.27	0.0604 (ppm)	737.0450
2/21/2018 21:32:57	R1801311-004 30X	K (766.491 nm)	3.9838 (ppm)	0.39	3.9838 (ppm)	14704.8635
2/21/2018 21:32:57	R1801311-004 30X	Mg (279.078 nm)	2.9140 (ppm)	0.43	2.9140 (ppm)	6205.5891
2/21/2018 21:32:57	R1801311-004 30X	Mn (257.610 nm)	0.0118 (ppm)	0.51	0.0118 (ppm)	3900.9679
2/21/2018 21:32:57	R1801311-004 30X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.6210
2/21/2018 21:32:57	R1801311-004 30X	Na (588.995 nm)	60.8264 o (ppm)	0.15	60.8264 (ppm)	3375033.7980
2/21/2018 21:32:57	R1801311-004 30X	Ni (230.299 nm)	-0.0005 u (ppm)	52.74	-0.0005 (ppm)	-26.0248
2/21/2018 21:32:57	R1801311-004 30X	Pb (220.353 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	6.9932

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:32:57	R1801311-004 30X	Sb (217.582 nm)	0.0013 (ppm)	92.45	0.0013 (ppm)	1.8154
2/21/2018 21:32:57	R1801311-004 30X	Se (196.026 nm)	-0.0020 u (ppm)	56.06	-0.0020 (ppm)	-2.8034
2/21/2018 21:32:57	R1801311-004 30X	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.3609
2/21/2018 21:32:57	R1801311-004 30X	Sr (216.596 nm)	0.9650 (ppm)	0.54	0.9650 (ppm)	14146.3406
2/21/2018 21:32:57	R1801311-004 30X	Ti (336.122 nm)	0.0005 (ppm)	2.78	0.0005 (ppm)	-354.1129
2/21/2018 21:32:57	R1801311-004 30X	Tl (351.923 nm)	0.0038 (ppm)	41.08	0.0038 (ppm)	11.0171
2/21/2018 21:32:57	R1801311-004 30X	V (292.401 nm)	0.0002 (ppm)	62.69	0.0002 (ppm)	97.3456
2/21/2018 21:32:57	R1801311-004 30X	Y (360.074 nm)	0.96 (Ratio)	0.59	0.96 (Ratio)	945032.10
2/21/2018 21:32:57	R1801311-004 30X	Y_R (360.074 nm)	0.96 (Ratio)	0.59	0.96 (Ratio)	945921.82
2/21/2018 21:32:57	R1801311-004 30X	Zn (213.857 nm)	0.0017 (ppm)	0.65	0.0017 (ppm)	24.9555
2/21/2018 21:36:18	R1801311-004S 30X	Ag (328.068 nm)	0.0015 (ppm)	1.40	0.0015 (ppm)	14.0513
2/21/2018 21:36:18	R1801311-004S 30X	Al (394.401 nm)	0.0883 (ppm)	0.98	0.0883 (ppm)	1350.7349
2/21/2018 21:36:18	R1801311-004S 30X	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-2.2801
2/21/2018 21:36:18	R1801311-004S 30X	B (249.772 nm)	0.0498 (ppm)	1.77	0.0498 (ppm)	1632.9445
2/21/2018 21:36:18	R1801311-004S 30X	Ba (230.424 nm)	0.0852 (ppm)	1.56	0.0852 (ppm)	3039.3890
2/21/2018 21:36:18	R1801311-004S 30X	Be (313.107 nm)	0.0017 (ppm)	1.54	0.0017 (ppm)	2089.3999
2/21/2018 21:36:18	R1801311-004S 30X	Ca (227.547 nm)	111.7891 o (ppm)	1.31	111.7891 (ppm)	7696.0369
2/21/2018 21:36:18	R1801311-004S 30X	Cd (214.439 nm)	0.0017 (ppm)	4.61	0.0017 (ppm)	54.0684
2/21/2018 21:36:18	R1801311-004S 30X	Co (230.786 nm)	0.0173 (ppm)	1.25	0.0173 (ppm)	185.8285
2/21/2018 21:36:18	R1801311-004S 30X	Cr (267.716 nm)	0.0068 (ppm)	2.22	0.0068 (ppm)	341.7186
2/21/2018 21:36:18	R1801311-004S 30X	Cu (327.395 nm)	0.0083 (ppm)	1.35	0.0083 (ppm)	607.1848
2/21/2018 21:36:18	R1801311-004S 30X	Fe (234.350 nm)	0.0957 (ppm)	1.20	0.0957 (ppm)	1146.0444
2/21/2018 21:36:18	R1801311-004S 30X	K (766.491 nm)	4.7788 (ppm)	1.20	4.7788 (ppm)	17641.8475
2/21/2018 21:36:18	R1801311-004S 30X	Mg (279.078 nm)	3.0471 (ppm)	1.55	3.0471 (ppm)	6489.1926
2/21/2018 21:36:18	R1801311-004S 30X	Mn (257.610 nm)	0.0293 (ppm)	1.59	0.0293 (ppm)	9694.3859
2/21/2018 21:36:18	R1801311-004S 30X	Mo (202.032 nm)	0.0170 (ppm)	2.09	0.0170 (ppm)	195.2058
2/21/2018 21:36:18	R1801311-004S 30X	Na (588.995 nm)	62.6218 o (ppm)	1.02	62.6218 (ppm)	347482.7635
2/21/2018 21:36:18	R1801311-004S 30X	Ni (230.299 nm)	0.0171 (ppm)	2.60	0.0171 (ppm)	100.8608
2/21/2018 21:36:18	R1801311-004S 30X	Pb (220.353 nm)	0.0160 (ppm)	15.46	0.0160 (ppm)	42.6032
2/21/2018 21:36:18	R1801311-004S 30X	Sb (217.582 nm)	0.0171 (ppm)	2.06	0.0171 (ppm)	27.5427
2/21/2018 21:36:18	R1801311-004S 30X	Se (196.026 nm)	0.0312 (ppm)	5.72	0.0312 (ppm)	30.6055
2/21/2018 21:36:18	R1801311-004S 30X	Sn (189.925 nm)	0.1661 (ppm)	1.93	0.1661 (ppm)	214.8489
2/21/2018 21:36:18	R1801311-004S 30X	Sr (216.596 nm)	1.0642 (ppm)	2.46	1.0642 (ppm)	15600.1615
2/21/2018 21:36:18	R1801311-004S 30X	Ti (336.122 nm)	0.0178 (ppm)	1.17	0.0178 (ppm)	3589.1179
2/21/2018 21:36:18	R1801311-004S 30X	Tl (351.923 nm)	0.0715 (ppm)	0.90	0.0715 (ppm)	220.6094
2/21/2018 21:36:18	R1801311-004S 30X	V (292.401 nm)	0.0173 (ppm)	1.61	0.0173 (ppm)	761.9201
2/21/2018 21:36:18	R1801311-004S 30X	Y (360.074 nm)	0.96 (Ratio)	0.52	0.96 (Ratio)	945711.57
2/21/2018 21:36:18	R1801311-004S 30X	Y_R (360.074 nm)	0.96 (Ratio)	0.52	0.96 (Ratio)	946604.95
2/21/2018 21:36:18	R1801311-004S 30X	Zn (213.857 nm)	0.0180 (ppm)	2.09	0.0180 (ppm)	543.2218
2/21/2018 21:39:39	R1801311-004SD 30X	Ag (328.068 nm)	0.0015 (ppm)	0.56	0.0015 (ppm)	16.8080
2/21/2018 21:39:39	R1801311-004SD 30X	Al (394.401 nm)	0.0881 (ppm)	2.48	0.0881 (ppm)	1347.8309
2/21/2018 21:39:39	R1801311-004SD 30X	As (188.980 nm)	0.0007 (ppm)	92.00	0.0007 (ppm)	-2.6531
2/21/2018 21:39:39	R1801311-004SD 30X	B (249.772 nm)	0.0495 (ppm)	1.48	0.0495 (ppm)	1622.1699
2/21/2018 21:39:39	R1801311-004SD 30X	Ba (230.424 nm)	0.0849 (ppm)	1.17	0.0849 (ppm)	3029.7489
2/21/2018 21:39:39	R1801311-004SD 30X	Be (313.107 nm)	0.0017 (ppm)	1.45	0.0017 (ppm)	2079.7732
2/21/2018 21:39:39	R1801311-004SD 30X	Ca (227.547 nm)	111.3970 o (ppm)	1.28	111.3970 (ppm)	7669.0691
2/21/2018 21:39:39	R1801311-004SD 30X	Cd (214.439 nm)	0.0017 (ppm)	12.10	0.0017 (ppm)	54.7455
2/21/2018 21:39:39	R1801311-004SD 30X	Co (230.786 nm)	0.0165 (ppm)	1.19	0.0165 (ppm)	177.0410
2/21/2018 21:39:39	R1801311-004SD 30X	Cr (267.716 nm)	0.0067 (ppm)	3.00	0.0067 (ppm)	332.6049
2/21/2018 21:39:39	R1801311-004SD 30X	Cu (327.395 nm)	0.0083 (ppm)	1.75	0.0083 (ppm)	606.4805
2/21/2018 21:39:39	R1801311-004SD 30X	Fe (234.350 nm)	0.0956 (ppm)	1.25	0.0956 (ppm)	1144.9205

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:39:39	R1801311-004SD 30X	K (766.491 nm)	4.7580 (ppm)	1.33	4.7580 (ppm)	17565.0171
2/21/2018 21:39:39	R1801311-004SD 30X	Mg (279.078 nm)	3.0225 (ppm)	1.28	3.0225 (ppm)	6436.7920
2/21/2018 21:39:39	R1801311-004SD 30X	Mn (257.610 nm)	0.0291 (ppm)	1.42	0.0291 (ppm)	9641.5173
2/21/2018 21:39:39	R1801311-004SD 30X	Mo (202.032 nm)	0.0167 (ppm)	2.35	0.0167 (ppm)	191.4892
2/21/2018 21:39:39	R1801311-004SD 30X	Na (588.995 nm)	62.4895 o (ppm) ↓	1.14	62.4895 (ppm)	3467428.9270
2/21/2018 21:39:39	R1801311-004SD 30X	Ni (230.299 nm)	0.0161 (ppm)	2.29	0.0161 (ppm)	93.5437
2/21/2018 21:39:39	R1801311-004SD 30X	Pb (220.353 nm)	0.0168 (ppm)	5.95	0.0168 (ppm)	44.4564
2/21/2018 21:39:39	R1801311-004SD 30X	Sb (217.582 nm)	0.0165 (ppm)	5.46	0.0165 (ppm)	26.4882
2/21/2018 21:39:39	R1801311-004SD 30X	Se (196.026 nm)	0.0325 (ppm)	5.35	0.0325 (ppm)	31.9413
2/21/2018 21:39:39	R1801311-004SD 30X	Sn (189.925 nm)	0.1661 (ppm)	2.10	0.1661 (ppm)	214.8243
2/21/2018 21:39:39	R1801311-004SD 30X	Sr (216.596 nm)	1.0493 (ppm)	1.34	1.0493 (ppm)	15381.7996
2/21/2018 21:39:39	R1801311-004SD 30X	Ti (336.122 nm)	0.0178 (ppm)	1.51	0.0178 (ppm)	3571.4124
2/21/2018 21:39:39	R1801311-004SD 30X	Tl (351.923 nm)	0.0705 (ppm)	2.65	0.0705 (ppm)	217.4533
2/21/2018 21:39:39	R1801311-004SD 30X	V (292.401 nm)	0.0172 (ppm)	1.44	0.0172 (ppm)	758.0782
2/21/2018 21:39:39	R1801311-004SD 30X	Y (360.074 nm)	0.96 (Ratio)	1.08	0.96 (Ratio)	939459.83
2/21/2018 21:39:39	R1801311-004SD 30X	Y_R (360.074 nm)	0.96 (Ratio)	1.08	0.96 (Ratio)	940335.31
2/21/2018 21:39:39	R1801311-004SD 30X	Zn (213.857 nm)	0.0207 (ppm)	1.64	0.0207 (ppm)	630.7374
2/21/2018 21:43:01	R1801311-004A 30X	Ag (328.068 nm)	0.0457 (ppm)	0.45	0.0457 (ppm)	3468.3127
2/21/2018 21:43:01	R1801311-004A 30X	Al (394.401 nm)	1.9854 (ppm)	0.23	1.9854 (ppm)	28450.3507
2/21/2018 21:43:01	R1801311-004A 30X	As (188.980 nm)	0.0397 (ppm)	5.91	0.0397 (ppm)	35.6544
2/21/2018 21:43:01	R1801311-004A 30X	B (249.772 nm)	0.9888 (ppm)	0.14	0.9888 (ppm)	31026.8528
2/21/2018 21:43:01	R1801311-004A 30X	Ba (230.424 nm)	2.0607 (ppm)	0.45	2.0607 (ppm)	73413.1318
2/21/2018 21:43:01	R1801311-004A 30X	Be (313.107 nm)	0.0490 (ppm)	0.17	0.0490 (ppm)	76844.1787
2/21/2018 21:43:01	R1801311-004A 30X	Ca (227.547 nm)	111.0493 o (ppm)	0.34	111.0493 (ppm)	7645.1542
2/21/2018 21:43:01	R1801311-004A 30X	Cd (214.439 nm)	0.0491 (ppm)	0.54	0.0491 (ppm)	1134.1398
2/21/2018 21:43:01	R1801311-004A 30X	Co (230.786 nm)	0.4928 (ppm)	0.19	0.4928 (ppm)	5436.3395
2/21/2018 21:43:01	R1801311-004A 30X	Cr (267.716 nm)	0.2016 (ppm)	0.14	0.2016 (ppm)	10347.2119
2/21/2018 21:43:01	R1801311-004A 30X	Cu (327.395 nm)	0.2444 (ppm)	0.09	0.2444 (ppm)	17023.8769
2/21/2018 21:43:01	R1801311-004A 30X	Fe (234.350 nm)	1.0467 (ppm)	0.17	1.0467 (ppm)	12149.6844
2/21/2018 21:43:01	R1801311-004A 30X	K (766.491 nm)	24.4368 (ppm)	0.38	24.4368 (ppm)	90266.3938
2/21/2018 21:43:01	R1801311-004A 30X	Mg (279.078 nm)	4.8221 (ppm)	0.27	4.8221 (ppm)	10272.2105
2/21/2018 21:43:01	R1801311-004A 30X	Mn (257.610 nm)	0.5097 (ppm)	0.23	0.5097 (ppm)	168855.1652
2/21/2018 21:43:01	R1801311-004A 30X	Mo (202.032 nm)	0.4887 (ppm)	0.31	0.4887 (ppm)	5411.8416
2/21/2018 21:43:01	R1801311-004A 30X	Na (588.995 nm)	77.6599 o (ppm)	0.20	77.6599 (ppm)	4310250.8762
2/21/2018 21:43:01	R1801311-004A 30X	Ni (230.299 nm)	0.4868 (ppm)	0.32	0.4868 (ppm)	3471.9923
2/21/2018 21:43:01	R1801311-004A 30X	Pb (220.353 nm)	0.4879 (ppm)	0.31	0.4879 (ppm)	1160.3014
2/21/2018 21:43:01	R1801311-004A 30X	Sb (217.582 nm)	0.4942 (ppm)	0.28	0.4942 (ppm)	804.9735
2/21/2018 21:43:01	R1801311-004A 30X	Se (196.026 nm)	1.0271 (ppm)	0.43	1.0271 (ppm)	1034.3528
2/21/2018 21:43:01	R1801311-004A 30X	Sn (189.925 nm)	4.9663 (ppm)	0.54	4.9663 (ppm)	6439.2892
2/21/2018 21:43:01	R1801311-004A 30X	Sr (216.596 nm)	3.0374 (ppm)	0.48	3.0374 (ppm)	44530.0926
2/21/2018 21:43:01	R1801311-004A 30X	Ti (336.122 nm)	0.4979 (ppm)	0.16	0.4979 (ppm)	112752.7495
2/21/2018 21:43:01	R1801311-004A 30X	Tl (351.923 nm)	1.9521 (ppm)	0.10	1.9521 (ppm)	6044.4644
2/21/2018 21:43:01	R1801311-004A 30X	V (292.401 nm)	0.4922 (ppm)	0.30	0.4922 (ppm)	19259.2970
2/21/2018 21:43:01	R1801311-004A 30X	Y (360.074 nm)	0.95 (Ratio)	1.05	0.95 (Ratio)	929418.79
2/21/2018 21:43:01	R1801311-004A 30X	Y_R (360.074 nm)	0.95 (Ratio)	1.05	0.95 (Ratio)	930348.52
2/21/2018 21:43:01	R1801311-004A 30X	Zn (213.857 nm)	0.4859 (ppm)	0.24	0.4859 (ppm)	15423.9554
2/21/2018 21:46:22	R1801311-004L 30X	Ag (328.068 nm)	-0.0002 u (ppm)	15.67	-0.0002 (ppm)	-115.9615
2/21/2018 21:46:22	R1801311-004L 30X	Al (394.401 nm)	0.0115 (ppm)	4.72	0.0115 (ppm)	254.1461
2/21/2018 21:46:22	R1801311-004L 30X	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.4391
2/21/2018 21:46:22	R1801311-004L 30X	B (249.772 nm)	0.0039 (ppm)	1.89	0.0039 (ppm)	196.4396
2/21/2018 21:46:22	R1801311-004L 30X	Ba (230.424 nm)	0.0032 (ppm)	5.43	0.0032 (ppm)	119.3702

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:46:22	R1801311-004L 30X	Be (313.107 nm)	0.0000 (ppm)	27.07	0.0000 (ppm)	-531.8938
2/21/2018 21:46:22	R1801311-004L 30X	Ca (227.547 nm)	21.0436 (ppm)	0.70	21.0436 (ppm)	1454.9968
2/21/2018 21:46:22	R1801311-004L 30X	Cd (214.439 nm)	0.0001 (ppm)	29.46	0.0001 (ppm)	17.0174
2/21/2018 21:46:22	R1801311-004L 30X	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-3.9189
2/21/2018 21:46:22	R1801311-004L 30X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-9.7449
2/21/2018 21:46:22	R1801311-004L 30X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	28.9913
2/21/2018 21:46:22	R1801311-004L 30X	Fe (234.350 nm)	0.0114 (ppm)	2.17	0.0114 (ppm)	170.2624
2/21/2018 21:46:22	R1801311-004L 30X	K (766.491 nm)	0.7601 (ppm)	1.91	0.7601 (ppm)	2795.0535
2/21/2018 21:46:22	R1801311-004L 30X	Mg (279.078 nm)	0.5950 (ppm)	0.79	0.5950 (ppm)	1263.2080
2/21/2018 21:46:22	R1801311-004L 30X	Mn (257.610 nm)	0.0025 (ppm)	1.32	0.0025 (ppm)	836.0710
2/21/2018 21:46:22	R1801311-004L 30X	Mo (202.032 nm)	0.0004 (ppm)	48.27	0.0004 (ppm)	10.9254
2/21/2018 21:46:22	R1801311-004L 30X	Na (588.995 nm)	12.2298 (ppm)	1.12	12.2298 (ppm)	675166.4932
2/21/2018 21:46:22	R1801311-004L 30X	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-24.2266
2/21/2018 21:46:22	R1801311-004L 30X	Pb (220.353 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	5.3845
2/21/2018 21:46:22	R1801311-004L 30X	Sb (217.582 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-2.7226
2/21/2018 21:46:22	R1801311-004L 30X	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.1176
2/21/2018 21:46:22	R1801311-004L 30X	Sn (189.925 nm)	0.0011 (ppm)	89.25	0.0011 (ppm)	0.8632
2/21/2018 21:46:22	R1801311-004L 30X	Sr (216.596 nm)	0.2026 (ppm)	0.54	0.2026 (ppm)	2968.8003
2/21/2018 21:46:22	R1801311-004L 30X	Ti (336.122 nm)	0.0003 (ppm)	16.65	0.0003 (ppm)	-402.2120
2/21/2018 21:46:22	R1801311-004L 30X	Tl (351.923 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	5.1690
2/21/2018 21:46:22	R1801311-004L 30X	V (292.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	96.4512
2/21/2018 21:46:22	R1801311-004L 30X	Y (360.074 nm)	1.01 (Ratio)	1.19	1.01 (Ratio)	992902.36
2/21/2018 21:46:22	R1801311-004L 30X	Y_R (360.074 nm)	1.01 (Ratio)	1.19	1.01 (Ratio)	993790.48
2/21/2018 21:46:22	R1801311-004L 30X	Zn (213.857 nm)	0.0012 (ppm)	3.87	0.0012 (ppm)	10.6671
2/21/2018 21:49:43	R1801311-001 50X	Ag (328.068 nm)	-0.0002 u (ppm)	30.31	-0.0002 (ppm)	-118.6313
2/21/2018 21:49:43	R1801311-001 50X	Al (394.401 nm)	0.0216 (ppm)	4.47	0.0216 (ppm)	397.9106
2/21/2018 21:49:43	R1801311-001 50X	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-4.3206
2/21/2018 21:49:43	R1801311-001 50X	B (249.772 nm)	0.0021 (ppm)	6.70	0.0021 (ppm)	138.2063
2/21/2018 21:49:43	R1801311-001 50X	Ba (230.424 nm)	0.0637 (ppm)	0.66	0.0637 (ppm)	2273.4935
2/21/2018 21:49:43	R1801311-001 50X	Be (313.107 nm)	0.0000 (ppm)	44.07	0.0000 (ppm)	-551.4245
2/21/2018 21:49:43	R1801311-001 50X	Ca (227.547 nm)	71.6234 o (ppm)	0.15	71.6234 (ppm)	4933.6349
2/21/2018 21:49:43	R1801311-001 50X	Cd (214.439 nm)	0.0001 (ppm)	98.54	0.0001 (ppm)	17.6530
2/21/2018 21:49:43	R1801311-001 50X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.9365
2/21/2018 21:49:43	R1801311-001 50X	Cr (267.716 nm)	-0.0002 u (ppm)	33.63	-0.0002 (ppm)	-21.2527
2/21/2018 21:49:43	R1801311-001 50X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	29.9299
2/21/2018 21:49:43	R1801311-001 50X	Fe (234.350 nm)	2.4112 (ppm)	0.64	2.4112 (ppm)	27937.3974
2/21/2018 21:49:43	R1801311-001 50X	K (766.491 nm)	0.7533 (ppm)	0.88	0.7533 (ppm)	2769.9520
2/21/2018 21:49:43	R1801311-001 50X	Mg (279.078 nm)	1.7597 (ppm)	0.45	1.7597 (ppm)	3745.4607
2/21/2018 21:49:43	R1801311-001 50X	Mn (257.610 nm)	0.1039 (ppm)	0.58	0.1039 (ppm)	34420.1012
2/21/2018 21:49:43	R1801311-001 50X	Mo (202.032 nm)	-0.0002 u (ppm)	94.65	-0.0002 (ppm)	4.7296
2/21/2018 21:49:43	R1801311-001 50X	Na (588.995 nm)	47.5933 (ppm)	0.30	47.5933 (ppm)	2639847.0612
2/21/2018 21:49:43	R1801311-001 50X	Ni (230.299 nm)	-0.0006 u (ppm)	8.88	-0.0006 (ppm)	-26.6338
2/21/2018 21:49:43	R1801311-001 50X	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.0685
2/21/2018 21:49:43	R1801311-001 50X	Sb (217.582 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	4.1085
2/21/2018 21:49:43	R1801311-001 50X	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.9999
2/21/2018 21:49:43	R1801311-001 50X	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.9552
2/21/2018 21:49:43	R1801311-001 50X	Sr (216.596 nm)	0.2244 (ppm)	1.17	0.2244 (ppm)	3288.6404
2/21/2018 21:49:43	R1801311-001 50X	Ti (336.122 nm)	0.0004 (ppm)	10.16	0.0004 (ppm)	-376.0389
2/21/2018 21:49:43	R1801311-001 50X	Tl (351.923 nm)	0.0019 (ppm)	42.05	0.0019 (ppm)	5.0286
2/21/2018 21:49:43	R1801311-001 50X	V (292.401 nm)	0.0004 (ppm)	67.62	0.0004 (ppm)	103.5994
2/21/2018 21:49:43	R1801311-001 50X	Y (360.074 nm)	0.97 (Ratio)	0.40	0.97 (Ratio)	957763.48

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:49:43	R1801311-001 50X	Y_R (360.074 nm)	0.98 (Ratio)	0.40	0.98 (Ratio)	958670.38
2/21/2018 21:49:43	R1801311-001 50X	Zn (213.857 nm)	0.0067 (ppm)	0.51	0.0067 (ppm)	184.5392
2/21/2018 21:53:04	R1801311-002 50X	Ag (328.068 nm)	-0.0002 u (ppm)	24.68	-0.0002 (ppm)	-121.5597
2/21/2018 21:53:04	R1801311-002 50X	Al (394.401 nm)	0.0219 (ppm)	0.62	0.0219 (ppm)	401.6681
2/21/2018 21:53:04	R1801311-002 50X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.4949
2/21/2018 21:53:04	R1801311-002 50X	B (249.772 nm)	0.0019 (ppm)	4.70	0.0019 (ppm)	133.6627
2/21/2018 21:53:04	R1801311-002 50X	Ba (230.424 nm)	0.0614 (ppm)	0.57	0.0614 (ppm)	2194.0753
2/21/2018 21:53:04	R1801311-002 50X	Be (313.107 nm)	0.0000 (ppm)	44.68	0.0000 (ppm)	-553.4645
2/21/2018 21:53:04	R1801311-002 50X	Ca (227.547 nm)	68.6486 o (ppm)	0.26	68.6486 (ppm)	4729.0409
2/21/2018 21:53:04	R1801311-002 50X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	16.9855
2/21/2018 21:53:04	R1801311-002 50X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.8560
2/21/2018 21:53:04	R1801311-002 50X	Cr (267.716 nm)	-0.0003 u (ppm)	26.35	-0.0003 (ppm)	-24.1499
2/21/2018 21:53:04	R1801311-002 50X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	26.1718
2/21/2018 21:53:04	R1801311-002 50X	Fe (234.350 nm)	2.3234 (ppm)	0.54	2.3234 (ppm)	26920.7997
2/21/2018 21:53:04	R1801311-002 50X	K (766.491 nm)	0.7247 (ppm)	0.46	0.7247 (ppm)	2664.4222
2/21/2018 21:53:04	R1801311-002 50X	Mg (279.078 nm)	1.7088 (ppm)	0.44	1.7088 (ppm)	3636.8852
2/21/2018 21:53:04	R1801311-002 50X	Mn (257.610 nm)	0.0998 (ppm)	0.53	0.0998 (ppm)	33052.7378
2/21/2018 21:53:04	R1801311-002 50X	Mo (202.032 nm)	-0.0004 u (ppm)	75.62	-0.0004 (ppm)	1.8312
2/21/2018 21:53:04	R1801311-002 50X	Na (588.995 nm)	45.7864 (ppm)	0.52	45.7864 (ppm)	2539461.7353
2/21/2018 21:53:04	R1801311-002 50X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.6892
2/21/2018 21:53:04	R1801311-002 50X	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	3.7638
2/21/2018 21:53:04	R1801311-002 50X	Sb (217.582 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	-4.9650
2/21/2018 21:53:04	R1801311-002 50X	Se (196.026 nm)	-0.0026 u (ppm)	36.10	-0.0026 (ppm)	-3.3944
2/21/2018 21:53:04	R1801311-002 50X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.6736
2/21/2018 21:53:04	R1801311-002 50X	Sr (216.596 nm)	0.2161 (ppm)	1.12	0.2161 (ppm)	3166.7605
2/21/2018 21:53:04	R1801311-002 50X	Ti (336.122 nm)	0.0004 (ppm)	3.40	0.0004 (ppm)	-377.4731
2/21/2018 21:53:04	R1801311-002 50X	Ti (351.923 nm)	0.0020 (ppm)	67.53	0.0020 (ppm)	5.4326
2/21/2018 21:53:04	R1801311-002 50X	V (292.401 nm)	0.0004 (ppm)	13.51	0.0004 (ppm)	103.0831
2/21/2018 21:53:04	R1801311-002 50X	Y (360.074 nm)	0.97 (Ratio)	0.49	0.97 (Ratio)	958046.01
2/21/2018 21:53:04	R1801311-002 50X	Y_R (360.074 nm)	0.98 (Ratio)	0.49	0.98 (Ratio)	958912.28
2/21/2018 21:53:04	R1801311-002 50X	Zn (213.857 nm)	0.0012 (ppm)	9.67	0.0012 (ppm)	9.8985
2/21/2018 21:56:25	R1801311-017 50X	Ag (328.068 nm)	-0.0001 u (ppm)	56.13	-0.0001 (ppm)	-112.3679
2/21/2018 21:56:25	R1801311-017 50X	Al (394.401 nm)	0.0231 (ppm)	0.33	0.0231 (ppm)	419.8612
2/21/2018 21:56:25	R1801311-017 50X	As (188.980 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	-1.2833
2/21/2018 21:56:25	R1801311-017 50X	B (249.772 nm)	0.0001 (ppm)	62.57	0.0001 (ppm)	77.8961
2/21/2018 21:56:25	R1801311-017 50X	Ba (230.424 nm)	0.0406 (ppm)	0.66	0.0406 (ppm)	1451.1523
2/21/2018 21:56:25	R1801311-017 50X	Be (313.107 nm)	0.0000 (ppm)	44.11	0.0000 (ppm)	-555.6859
2/21/2018 21:56:25	R1801311-017 50X	Ca (227.547 nm)	115.6771 o (ppm)	0.29	115.6771 (ppm)	7963.4308
2/21/2018 21:56:25	R1801311-017 50X	Cd (214.439 nm)	0.0001 (ppm)	24.02	0.0001 (ppm)	17.4082
2/21/2018 21:56:25	R1801311-017 50X	Co (230.786 nm)	-0.0001 u (ppm)	83.07	-0.0001 (ppm)	-6.8014
2/21/2018 21:56:25	R1801311-017 50X	Cr (267.716 nm)	-0.0002 u (ppm)	71.33	-0.0002 (ppm)	-20.4812
2/21/2018 21:56:25	R1801311-017 50X	Cu (327.395 nm)	-0.0001 u (ppm)	57.49	-0.0001 (ppm)	18.4516
2/21/2018 21:56:25	R1801311-017 50X	Fe (234.350 nm)	0.0007 (ppm)	17.51	0.0007 (ppm)	46.4714
2/21/2018 21:56:25	R1801311-017 50X	K (766.491 nm)	4.3408 (ppm)	0.46	4.3408 (ppm)	16023.5204
2/21/2018 21:56:25	R1801311-017 50X	Mg (279.078 nm)	0.0048 (ppm)	3.64	0.0048 (ppm)	5.1848
2/21/2018 21:56:25	R1801311-017 50X	Mn (257.610 nm)	0.0001 (ppm)	11.66	0.0001 (ppm)	43.9823
2/21/2018 21:56:25	R1801311-017 50X	Mo (202.032 nm)	-0.0002 u (ppm)	89.60	-0.0002 (ppm)	4.5818
2/21/2018 21:56:25	R1801311-017 50X	Na (588.995 nm)	45.7842 (ppm)	0.56	45.7842 (ppm)	2539337.7664
2/21/2018 21:56:25	R1801311-017 50X	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-23.3543
2/21/2018 21:56:25	R1801311-017 50X	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	2.0877
2/21/2018 21:56:25	R1801311-017 50X	Sb (217.582 nm)	0.0024 (ppm)	> 100.00	0.0024 (ppm)	3.5344

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 21:56:25	R1801311-017 50X	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-1.7891
2/21/2018 21:56:25	R1801311-017 50X	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.1018
2/21/2018 21:56:25	R1801311-017 50X	Sr (216.596 nm)	0.4832 (ppm)	1.19	0.4832 (ppm)	7082.4075
2/21/2018 21:56:25	R1801311-017 50X	Ti (336.122 nm)	0.0006 (ppm)	4.64	0.0006 (ppm)	-340.9000
2/21/2018 21:56:25	R1801311-017 50X	Ti (351.923 nm)	0.0033 (ppm)	53.64	0.0033 (ppm)	9.2753
2/21/2018 21:56:25	R1801311-017 50X	V (292.401 nm)	0.0004 (ppm)	56.28	0.0004 (ppm)	102.6499
2/21/2018 21:56:25	R1801311-017 50X	Y (360.074 nm)	0.97 (Ratio)	0.60	0.97 (Ratio)	950098.05
2/21/2018 21:56:25	R1801311-017 50X	Y_R (360.074 nm)	0.97 (Ratio)	0.60	0.97 (Ratio)	950972.84
2/21/2018 21:56:25	R1801311-017 50X	Zn (213.857 nm)	0.0008 (ppm)	8.30	0.0008 (ppm)	-2.0860
2/21/2018 21:59:46	R1801311-005 100X	Ag (328.068 nm)	-0.0002 u (ppm)	27.25	-0.0002 (ppm)	-116.8933
2/21/2018 21:59:46	R1801311-005 100X	Al (394.401 nm)	0.0220 (ppm)	0.56	0.0220 (ppm)	404.1831
2/21/2018 21:59:46	R1801311-005 100X	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.8513
2/21/2018 21:59:46	R1801311-005 100X	B (249.772 nm)	0.0014 (ppm)	5.18	0.0014 (ppm)	116.5416
2/21/2018 21:59:46	R1801311-005 100X	Ba (230.424 nm)	0.0065 (ppm)	1.97	0.0065 (ppm)	235.1517
2/21/2018 21:59:46	R1801311-005 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-571.3548
2/21/2018 21:59:46	R1801311-005 100X	Ca (227.547 nm)	129.1762 o (ppm)	0.11	129.1762 (ppm)	8891.8329
2/21/2018 21:59:46	R1801311-005 100X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	17.0147
2/21/2018 21:59:46	R1801311-005 100X	Co (230.786 nm)	0.0001 (ppm)	99.05	0.0001 (ppm)	-4.5358
2/21/2018 21:59:46	R1801311-005 100X	Cr (267.716 nm)	-0.0003 u (ppm)	8.26	-0.0003 (ppm)	-23.7492
2/21/2018 21:59:46	R1801311-005 100X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	27.1814
2/21/2018 21:59:46	R1801311-005 100X	Fe (234.350 nm)	0.8070 (ppm)	0.39	0.8070 (ppm)	9375.1203
2/21/2018 21:59:46	R1801311-005 100X	K (766.491 nm)	1.5743 (ppm)	0.26	1.5743 (ppm)	5803.0113
2/21/2018 21:59:46	R1801311-005 100X	Mg (279.078 nm)	2.3696 (ppm)	0.18	2.3696 (ppm)	5045.2046
2/21/2018 21:59:46	R1801311-005 100X	Mn (257.610 nm)	0.0650 (ppm)	0.41	0.0650 (ppm)	21539.3466
2/21/2018 21:59:46	R1801311-005 100X	Mo (202.032 nm)	-0.0003 u (ppm)	32.38	-0.0003 (ppm)	3.2440
2/21/2018 21:59:46	R1801311-005 100X	Na (588.995 nm)	87.9012 o (ppm)	0.28	87.9012 (ppm)	4879221.2583
2/21/2018 21:59:46	R1801311-005 100X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-23.1201
2/21/2018 21:59:46	R1801311-005 100X	Pb (220.353 nm)	-0.0007 u (ppm)	90.33	-0.0007 (ppm)	3.2315
2/21/2018 21:59:46	R1801311-005 100X	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	1.8941
2/21/2018 21:59:46	R1801311-005 100X	Se (196.026 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	-3.1140
2/21/2018 21:59:46	R1801311-005 100X	Sn (189.925 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	0.5142
2/21/2018 21:59:46	R1801311-005 100X	Sr (216.596 nm)	0.5423 (ppm)	0.64	0.5423 (ppm)	7949.1401
2/21/2018 21:59:46	R1801311-005 100X	Ti (336.122 nm)	0.0005 (ppm)	2.50	0.0005 (ppm)	-352.6900
2/21/2018 21:59:46	R1801311-005 100X	Ti (351.923 nm)	0.0042 (ppm)	42.65	0.0042 (ppm)	12.1082
2/21/2018 21:59:46	R1801311-005 100X	V (292.401 nm)	0.0004 (ppm)	15.39	0.0004 (ppm)	102.5645
2/21/2018 21:59:46	R1801311-005 100X	Y (360.074 nm)	0.95 (Ratio)	0.66	0.95 (Ratio)	934525.04
2/21/2018 21:59:46	R1801311-005 100X	Y_R (360.074 nm)	0.95 (Ratio)	0.66	0.95 (Ratio)	935407.72
2/21/2018 21:59:46	R1801311-005 100X	Zn (213.857 nm)	0.0011 (ppm)	8.13	0.0011 (ppm)	7.4611
2/21/2018 22:03:07	Continuing Calibration Verification	Ag (328.068 nm)	0.4852 (ppm)	0.55	0.4852 (ppm)	37834.6867
2/21/2018 22:03:07	Continuing Calibration Verification	Al (394.401 nm)	9.5211 (ppm)	0.44	9.5211 (ppm)	136094.7447
2/21/2018 22:03:07	Continuing Calibration Verification	As (188.980 nm)	0.9387 (ppm)	0.45	0.9387 (ppm)	918.6527
2/21/2018 22:03:07	Continuing Calibration Verification	B (249.772 nm)	2.4006 (ppm)	0.59	2.4006 (ppm)	75221.8209
2/21/2018 22:03:07	Continuing Calibration Verification	Ba (230.424 nm)	10.2911 (ppm)	0.71	10.2911 (ppm)	366595.3885
2/21/2018 22:03:07	Continuing Calibration Verification	Be (313.107 nm)	0.2508 (ppm)	0.54	0.2508 (ppm)	395999.3294
2/21/2018 22:03:07	Continuing Calibration Verification	Ca (227.547 nm)	23.5879 (ppm)	0.51	23.5879 (ppm)	1629.9863
2/21/2018 22:03:07	Continuing Calibration Verification	Cd (214.439 nm)	0.4867 (ppm)	0.82	0.4867 (ppm)	11110.9058
2/21/2018 22:03:07	Continuing Calibration Verification	Co (230.786 nm)	2.5152 (ppm)	0.71	2.5152 (ppm)	27769.6186
2/21/2018 22:03:07	Continuing Calibration Verification	Cr (267.716 nm)	0.5184 (ppm)	0.71	0.5184 (ppm)	26619.1834
2/21/2018 22:03:07	Continuing Calibration Verification	Cu (327.395 nm)	1.2020 (ppm)	0.38	1.2020 (ppm)	83619.2658
2/21/2018 22:03:07	Continuing Calibration Verification	Fe (234.350 nm)	4.9932 (ppm)	0.75	4.9932 (ppm)	57811.2541
2/21/2018 22:03:07	Continuing Calibration Verification	K (766.491 nm)	24.5542 (ppm)	0.33	24.5542 (ppm)	90699.8386

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:03:07	Continuing Calibration Verification	Mg (279.078 nm)	24.6172 (ppm)	0.71	24.6172 (ppm)	52460.5573
2/21/2018 22:03:07	Continuing Calibration Verification	Mn (257.610 nm)	0.7609 (ppm)	0.71	0.7609 (ppm)	252096.8553
2/21/2018 22:03:07	Continuing Calibration Verification	Mo (202.032 nm)	2.4036 (ppm)	0.73	2.4036 (ppm)	26589.8606
2/21/2018 22:03:07	Continuing Calibration Verification	Na (588.995 nm)	24.7715 (ppm)	0.23	24.7715 (ppm)	1371939.6870
2/21/2018 22:03:07	Continuing Calibration Verification	Ni (230.299 nm)	2.0320 (ppm)	0.81	2.0320 (ppm)	14562.3252
2/21/2018 22:03:07	Continuing Calibration Verification	Pb (220.353 nm)	0.4873 (ppm)	0.97	0.4873 (ppm)	1158.8109
2/21/2018 22:03:07	Continuing Calibration Verification	Sb (217.582 nm)	4.7132 (ppm)	0.23	4.7132 (ppm)	7678.9821
2/21/2018 22:03:07	Continuing Calibration Verification	Se (196.026 nm)	0.4645 (ppm)	0.59	0.4645 (ppm)	467.2743
2/21/2018 22:03:07	Continuing Calibration Verification	Sn (189.925 nm)	4.8735 (ppm)	1.08	4.8735 (ppm)	6318.9586
2/21/2018 22:03:07	Continuing Calibration Verification	Sr (216.596 nm)	2.5151 (ppm)	0.94	2.5151 (ppm)	36873.3524
2/21/2018 22:03:07	Continuing Calibration Verification	Ti (336.122 nm)	2.4817 (ppm)	0.67	2.4817 (ppm)	563802.6044
2/21/2018 22:03:07	Continuing Calibration Verification	Ti (351.923 nm)	0.9809 (ppm)	0.40	0.9809 (ppm)	3036.9873
2/21/2018 22:03:07	Continuing Calibration Verification	V (292.401 nm)	2.4797 (ppm)	0.66	2.4797 (ppm)	96679.4036
2/21/2018 22:03:07	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.44	0.98 (Ratio)	961771.19
2/21/2018 22:03:07	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.44	0.98 (Ratio)	962643.99
2/21/2018 22:03:07	Continuing Calibration Verification	Zn (213.857 nm)	0.9738 (ppm)	0.69	0.9738 (ppm)	30937.7956
2/21/2018 22:06:28	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-104.5687
2/21/2018 22:06:28	Continuing Calibration Blank	Al (394.401 nm)	0.0038 (ppm)	11.71	0.0038 (ppm)	143.2830
2/21/2018 22:06:28	Continuing Calibration Blank	As (188.980 nm)	0.0015 (ppm)	27.63	0.0015 (ppm)	-1.8705
2/21/2018 22:06:28	Continuing Calibration Blank	B (249.772 nm)	0.0023 (ppm)	11.94	0.0023 (ppm)	146.7490
2/21/2018 22:06:28	Continuing Calibration Blank	Ba (230.424 nm)	0.0042 (ppm)	2.73	0.0042 (ppm)	155.6426
2/21/2018 22:06:28	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	4.11	0.0001 (ppm)	-388.5256
2/21/2018 22:06:28	Continuing Calibration Blank	Ca (227.547 nm)	0.0248 (ppm)	73.03	0.0248 (ppm)	9.4260
2/21/2018 22:06:28	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	40.51	0.0002 (ppm)	21.1388
2/21/2018 22:06:28	Continuing Calibration Blank	Co (230.786 nm)	0.0012 (ppm)	35.32	0.0012 (ppm)	7.7405
2/21/2018 22:06:28	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	34.80	0.0002 (ppm)	-1.0810
2/21/2018 22:06:28	Continuing Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	21.97	0.0004 (ppm)	54.7936
2/21/2018 22:06:28	Continuing Calibration Blank	Fe (234.350 nm)	0.0014 (ppm)	16.32	0.0014 (ppm)	54.7224
2/21/2018 22:06:28	Continuing Calibration Blank	K (766.491 nm)	0.0350 (ppm)	30.65	0.0350 (ppm)	116.4416
2/21/2018 22:06:28	Continuing Calibration Blank	Mg (279.078 nm)	0.0103 (ppm)	15.75	0.0103 (ppm)	17.0678
2/21/2018 22:06:28	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	9.69	0.0003 (ppm)	112.1094
2/21/2018 22:06:28	Continuing Calibration Blank	Mo (202.032 nm)	0.0029 (ppm)	5.93	0.0029 (ppm)	38.9230
2/21/2018 22:06:28	Continuing Calibration Blank	Na (588.995 nm)	0.0140 (ppm)	8.45	0.0140 (ppm)	-3503.2081
2/21/2018 22:06:28	Continuing Calibration Blank	Ni (230.299 nm)	0.0007 (ppm)	38.14	0.0007 (ppm)	-16.7656
2/21/2018 22:06:28	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	5.3974
2/21/2018 22:06:28	Continuing Calibration Blank	Sb (217.582 nm)	0.0044 (ppm)	1.54	0.0044 (ppm)	6.9195
2/21/2018 22:06:28	Continuing Calibration Blank	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.1400
2/21/2018 22:06:28	Continuing Calibration Blank	Sn (189.925 nm)	0.0023 (ppm)	24.63	0.0023 (ppm)	2.4132
2/21/2018 22:06:28	Continuing Calibration Blank	Sr (216.596 nm)	0.0011 (ppm)	1.79	0.0011 (ppm)	14.7249
2/21/2018 22:06:28	Continuing Calibration Blank	Ti (336.122 nm)	0.0015 (ppm)	2.43	0.0015 (ppm)	-115.7354
2/21/2018 22:06:28	Continuing Calibration Blank	Ti (351.923 nm)	0.0035 (ppm)	73.98	0.0035 (ppm)	10.0907
2/21/2018 22:06:28	Continuing Calibration Blank	V (292.401 nm)	0.0010 (ppm)	9.86	0.0010 (ppm)	128.7078
2/21/2018 22:06:28	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.52	1.03 (Ratio)	1010755.84
2/21/2018 22:06:28	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.52	1.03 (Ratio)	1011560.90
2/21/2018 22:06:28	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	35.66	0.0004 (ppm)	-16.7690
2/21/2018 22:09:48	R1801311-006 100X	Ag (328.068 nm)	-0.0003 u (ppm)	71.14	-0.0003 (ppm)	-123.4492
2/21/2018 22:09:48	R1801311-006 100X	Al (394.401 nm)	0.0218 (ppm)	1.72	0.0218 (ppm)	401.1488
2/21/2018 22:09:48	R1801311-006 100X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.5315
2/21/2018 22:09:48	R1801311-006 100X	B (249.772 nm)	0.0014 (ppm)	7.61	0.0014 (ppm)	117.9095
2/21/2018 22:09:48	R1801311-006 100X	Ba (230.424 nm)	0.0074 (ppm)	1.59	0.0074 (ppm)	268.5941
2/21/2018 22:09:48	R1801311-006 100X	Be (313.107 nm)	0.0000 (ppm)	28.70	0.0000 (ppm)	-557.6323

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:09:48	R1801311-006 100X	Ca (227.547 nm)	115.6777 u (ppm)	0.10	115.6777 (ppm)	7963.4756
2/21/2018 22:09:48	R1801311-006 100X	Cd (214.439 nm)	0.0001 (ppm)	72.32	0.0001 (ppm)	18.2371
2/21/2018 22:09:48	R1801311-006 100X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.1194
2/21/2018 22:09:48	R1801311-006 100X	Cr (267.716 nm)	-0.0004 u (ppm)	31.16	-0.0004 (ppm)	-27.8225
2/21/2018 22:09:48	R1801311-006 100X	Cu (327.395 nm)	-0.0001 u (ppm)	67.30	-0.0001 (ppm)	20.5280
2/21/2018 22:09:48	R1801311-006 100X	Fe (234.350 nm)	0.5211 (ppm)	0.46	0.5211 (ppm)	6067.6586
2/21/2018 22:09:48	R1801311-006 100X	K (766.491 nm)	1.3419 (ppm)	0.36	1.3419 (ppm)	4944.3459
2/21/2018 22:09:48	R1801311-006 100X	Mg (279.078 nm)	2.0173 (ppm)	0.42	2.0173 (ppm)	4294.4220
2/21/2018 22:09:48	R1801311-006 100X	Mn (257.610 nm)	0.1399 (ppm)	0.43	0.1399 (ppm)	46361.7280
2/21/2018 22:09:48	R1801311-006 100X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.0531
2/21/2018 22:09:48	R1801311-006 100X	Na (588.995 nm)	78.7004 u (ppm)	0.26	78.7004 (ppm)	4368057.6362
2/21/2018 22:09:48	R1801311-006 100X	Ni (230.299 nm)	-0.0008 u (ppm)	61.53	-0.0008 (ppm)	-27.6066
2/21/2018 22:09:48	R1801311-006 100X	Pb (220.353 nm)	-0.0001 u (ppm)	39.18	-0.0001 (ppm)	4.6045
2/21/2018 22:09:48	R1801311-006 100X	Sb (217.582 nm)	0.0031 (ppm)	86.30	0.0031 (ppm)	4.7964
2/21/2018 22:09:48	R1801311-006 100X	Se (196.026 nm)	-0.0022 u (ppm)	85.69	-0.0022 (ppm)	-3.0277
2/21/2018 22:09:48	R1801311-006 100X	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.0159
2/21/2018 22:09:48	R1801311-006 100X	Sr (216.596 nm)	0.4096 (ppm)	1.00	0.4096 (ppm)	6003.6029
2/21/2018 22:09:48	R1801311-006 100X	Ti (336.122 nm)	0.0006 (ppm)	3.50	0.0006 (ppm)	-330.3733
2/21/2018 22:09:48	R1801311-006 100X	Ti (351.923 nm)	0.0044 (ppm)	13.18	0.0044 (ppm)	12.7328
2/21/2018 22:09:48	R1801311-006 100X	V (292.401 nm)	0.0004 (ppm)	9.34	0.0004 (ppm)	105.6640
2/21/2018 22:09:48	R1801311-006 100X	Y (360.074 nm)	0.96 (Ratio)	0.51	0.96 (Ratio)	940051.62
2/21/2018 22:09:48	R1801311-006 100X	Y_R (360.074 nm)	0.96 (Ratio)	0.51	0.96 (Ratio)	940891.49
2/21/2018 22:09:48	R1801311-006 100X	Zn (213.857 nm)	0.0012 (ppm)	2.38	0.0012 (ppm)	10.6756
2/21/2018 22:13:09	R1801311-007 100X	Ag (328.068 nm)	-0.0002 u (ppm)	36.75	-0.0002 (ppm)	-120.2210
2/21/2018 22:13:09	R1801311-007 100X	Al (394.401 nm)	0.0164 (ppm)	1.62	0.0164 (ppm)	323.1983
2/21/2018 22:13:09	R1801311-007 100X	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-2.1985
2/21/2018 22:13:09	R1801311-007 100X	B (249.772 nm)	0.0005 (ppm)	44.15	0.0005 (ppm)	89.5623
2/21/2018 22:13:09	R1801311-007 100X	Ba (230.424 nm)	0.0178 (ppm)	1.68	0.0178 (ppm)	638.4680
2/21/2018 22:13:09	R1801311-007 100X	Be (313.107 nm)	0.0000 (ppm)	37.84	0.0000 (ppm)	-552.1354
2/21/2018 22:13:09	R1801311-007 100X	Ca (227.547 nm)	51.5722 (ppm)	1.10	51.5722 (ppm)	3554.6084
2/21/2018 22:13:09	R1801311-007 100X	Cd (214.439 nm)	0.0002 (ppm)	45.50	0.0002 (ppm)	19.1531
2/21/2018 22:13:09	R1801311-007 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.2474
2/21/2018 22:13:09	R1801311-007 100X	Cr (267.716 nm)	-0.0002 u (ppm)	35.65	-0.0002 (ppm)	-21.3772
2/21/2018 22:13:09	R1801311-007 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	23.8560
2/21/2018 22:13:09	R1801311-007 100X	Fe (234.350 nm)	-0.0013 u (ppm)	22.35	-0.0013 (ppm)	23.0058
2/21/2018 22:13:09	R1801311-007 100X	K (766.491 nm)	2.3071 (ppm)	1.52	2.3071 (ppm)	8510.4536
2/21/2018 22:13:09	R1801311-007 100X	Mg (279.078 nm)	-0.0017 u (ppm)	45.60	-0.0017 (ppm)	-8.6116
2/21/2018 22:13:09	R1801311-007 100X	Mn (257.610 nm)	0.0000 (ppm)	42.97	0.0000 (ppm)	9.3134
2/21/2018 22:13:09	R1801311-007 100X	Mo (202.032 nm)	0.0002 (ppm)	80.94	0.0002 (ppm)	9.1275
2/21/2018 22:13:09	R1801311-007 100X	Na (588.995 nm)	29.4082 (ppm)	1.48	29.4082 (ppm)	1629541.9101
2/21/2018 22:13:09	R1801311-007 100X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.7136
2/21/2018 22:13:09	R1801311-007 100X	Pb (220.353 nm)	-0.0013 u (ppm)	26.35	-0.0013 (ppm)	1.6481
2/21/2018 22:13:09	R1801311-007 100X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.5639
2/21/2018 22:13:09	R1801311-007 100X	Se (196.026 nm)	-0.0024 u (ppm)	29.01	-0.0024 (ppm)	-3.1862
2/21/2018 22:13:09	R1801311-007 100X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.7520
2/21/2018 22:13:09	R1801311-007 100X	Sr (216.596 nm)	0.2924 (ppm)	0.53	0.2924 (ppm)	4285.3587
2/21/2018 22:13:09	R1801311-007 100X	Ti (336.122 nm)	0.0002 (ppm)	4.79	0.0002 (ppm)	-417.1901
2/21/2018 22:13:09	R1801311-007 100X	Ti (351.923 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	0.9581
2/21/2018 22:13:09	R1801311-007 100X	V (292.401 nm)	0.0002 (ppm)	52.48	0.0002 (ppm)	95.3110
2/21/2018 22:13:09	R1801311-007 100X	Y (360.074 nm)	0.99 (Ratio)	0.97	0.99 (Ratio)	973901.84
2/21/2018 22:13:09	R1801311-007 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.97	0.99 (Ratio)	974763.82



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:13:09	R1801311-007 100X	Zn (213.857 nm)	0.0008 (ppm)	6.91	0.0008 (ppm)	-3.2694
2/21/2018 22:16:30	R1801311-011 100X	Ag (328.068 nm)	-0.0002 u (ppm)	87.23	-0.0002 (ppm)	-117.9806
2/21/2018 22:16:30	R1801311-011 100X	Al (394.401 nm)	0.0147 (ppm)	5.24	0.0147 (ppm)	298.8342
2/21/2018 22:16:30	R1801311-011 100X	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-4.3198
2/21/2018 22:16:30	R1801311-011 100X	B (249.772 nm)	0.0301 (ppm)	0.75	0.0301 (ppm)	1015.4834
2/21/2018 22:16:30	R1801311-011 100X	Ba (230.424 nm)	0.0005 (ppm)	11.91	0.0005 (ppm)	21.4234
2/21/2018 22:16:30	R1801311-011 100X	Be (313.107 nm)	0.0000 (ppm)	22.26	0.0000 (ppm)	-617.3407
2/21/2018 22:16:30	R1801311-011 100X	Ca (227.547 nm)	29.8927 (ppm)	0.06	29.8927 (ppm)	2063.5987
2/21/2018 22:16:30	R1801311-011 100X	Cd (214.439 nm)	0.0001 (ppm)	56.47	0.0001 (ppm)	17.6307
2/21/2018 22:16:30	R1801311-011 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.0779
2/21/2018 22:16:30	R1801311-011 100X	Cr (267.716 nm)	-0.0003 u (ppm)	5.99	-0.0003 (ppm)	-23.3642
2/21/2018 22:16:30	R1801311-011 100X	Cu (327.395 nm)	0.0001 (ppm)	81.56	0.0001 (ppm)	31.1485
2/21/2018 22:16:30	R1801311-011 100X	Fe (234.350 nm)	0.0332 (ppm)	1.83	0.0332 (ppm)	422.4430
2/21/2018 22:16:30	R1801311-011 100X	K (766.491 nm)	5.0667 (ppm)	0.20	5.0667 (ppm)	18705.2862
2/21/2018 22:16:30	R1801311-011 100X	Mg (279.078 nm)	5.0515 (ppm)	0.52	5.0515 (ppm)	10761.1168
2/21/2018 22:16:30	R1801311-011 100X	Mn (257.610 nm)	0.0278 (ppm)	0.58	0.0278 (ppm)	9226.4901
2/21/2018 22:16:30	R1801311-011 100X	Mo (202.032 nm)	-0.0003 u (ppm)	28.76	-0.0003 (ppm)	3.1700
2/21/2018 22:16:30	R1801311-011 100X	Na (588.995 nm)	### (ppm)	N/A	### (ppm)	###
2/21/2018 22:16:30	R1801311-011 100X	Ni (230.299 nm)	-0.0004 u (ppm)	48.35	-0.0004 (ppm)	-25.2228
2/21/2018 22:16:30	R1801311-011 100X	Pb (220.353 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	5.6223
2/21/2018 22:16:30	R1801311-011 100X	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.1478
2/21/2018 22:16:30	R1801311-011 100X	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-2.1110
2/21/2018 22:16:30	R1801311-011 100X	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.4322
2/21/2018 22:16:30	R1801311-011 100X	Sr (216.596 nm)	0.5729 (ppm)	1.44	0.5729 (ppm)	8398.1918
2/21/2018 22:16:30	R1801311-011 100X	Ti (336.122 nm)	0.0001 (ppm)	61.78	0.0001 (ppm)	-450.6771
2/21/2018 22:16:30	R1801311-011 100X	Tl (351.923 nm)	0.0017 (ppm)	98.67	0.0017 (ppm)	4.3708
2/21/2018 22:16:30	R1801311-011 100X	V (292.401 nm)	0.0005 (ppm)	16.76	0.0005 (ppm)	109.2232
2/21/2018 22:16:30	R1801311-011 100X	Y (360.074 nm)	0.88 (Ratio)	0.60	0.88 (Ratio)	867433.24
2/21/2018 22:16:30	R1801311-011 100X	Y_R (360.074 nm)	0.88 (Ratio)	0.61	0.88 (Ratio)	868356.67
2/21/2018 22:16:30	R1801311-011 100X	Zn (213.857 nm)	0.0011 (ppm)	8.01	0.0011 (ppm)	5.5621
2/21/2018 22:19:51	R1801311-012 100X	Ag (328.068 nm)	-0.0002 u (ppm)	79.98	-0.0002 (ppm)	-115.0303
2/21/2018 22:19:51	R1801311-012 100X	Al (394.401 nm)	0.0200 (ppm)	2.94	0.0200 (ppm)	374.8117
2/21/2018 22:19:51	R1801311-012 100X	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.7793
2/21/2018 22:19:51	R1801311-012 100X	B (249.772 nm)	0.0135 (ppm)	0.25	0.0135 (ppm)	496.9680
2/21/2018 22:19:51	R1801311-012 100X	Ba (230.424 nm)	0.0026 (ppm)	3.18	0.0026 (ppm)	97.7709
2/21/2018 22:19:51	R1801311-012 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-570.4908
2/21/2018 22:19:51	R1801311-012 100X	Ca (227.547 nm)	102.7310 o (ppm)	0.37	102.7310 (ppm)	7073.0666
2/21/2018 22:19:51	R1801311-012 100X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.9668
2/21/2018 22:19:51	R1801311-012 100X	Co (230.786 nm)	0.0003 (ppm)	92.73	0.0003 (ppm)	-2.7003
2/21/2018 22:19:51	R1801311-012 100X	Cr (267.716 nm)	-0.0004 u (ppm)	36.92	-0.0004 (ppm)	-28.2410
2/21/2018 22:19:51	R1801311-012 100X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	18.1525
2/21/2018 22:19:51	R1801311-012 100X	Fe (234.350 nm)	0.0645 (ppm)	0.49	0.0645 (ppm)	784.5362
2/21/2018 22:19:51	R1801311-012 100X	K (766.491 nm)	4.6040 (ppm)	0.37	4.6040 (ppm)	16995.9533
2/21/2018 22:19:51	R1801311-012 100X	Mg (279.078 nm)	9.5756 (ppm)	0.55	9.5756 (ppm)	20403.0396
2/21/2018 22:19:51	R1801311-012 100X	Mn (257.610 nm)	0.0734 (ppm)	0.60	0.0734 (ppm)	24322.3089
2/21/2018 22:19:51	R1801311-012 100X	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.5130
2/21/2018 22:19:51	R1801311-012 100X	Na (588.995 nm)	93.7191 o (ppm)	0.26	93.7191 (ppm)	5202446.4227
2/21/2018 22:19:51	R1801311-012 100X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-21.4536
2/21/2018 22:19:51	R1801311-012 100X	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	2.1478
2/21/2018 22:19:51	R1801311-012 100X	Sb (217.582 nm)	0.0013 (ppm)	7.16	0.0013 (ppm)	1.8376
2/21/2018 22:19:51	R1801311-012 100X	Se (196.026 nm)	-0.0032 u (ppm)	59.49	-0.0032 (ppm)	-4.0167

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:19:51	R1801311-012 100X	Sn (189.925 nm)	-0.0010 u (ppm)	64.76	-0.0010 (ppm)	-1.8789
2/21/2018 22:19:51	R1801311-012 100X	Sr (216.596 nm)	1.6154 (ppm)	1.18	1.6154 (ppm)	23681.6832
2/21/2018 22:19:51	R1801311-012 100X	Ti (336.122 nm)	0.0004 (ppm)	12.48	0.0004 (ppm)	-385.1747
2/21/2018 22:19:51	R1801311-012 100X	Tl (351.923 nm)	0.0040 (ppm)	56.75	0.0040 (ppm)	11.4255
2/21/2018 22:19:51	R1801311-012 100X	V (292.401 nm)	0.0004 (ppm)	31.67	0.0004 (ppm)	102.5518
2/21/2018 22:19:51	R1801311-012 100X	Y (360.074 nm)	0.95 (Ratio)	0.41	0.95 (Ratio)	935060.75
2/21/2018 22:19:51	R1801311-012 100X	Y_R (360.074 nm)	0.95 (Ratio)	0.41	0.95 (Ratio)	935980.09
2/21/2018 22:19:51	R1801311-012 100X	Zn (213.857 nm)	0.0008 (ppm)	10.33	0.0008 (ppm)	-3.9199
2/21/2018 22:23:12	R1801311-013 100X	Ag (328.068 nm)	-0.0002 u (ppm)	63.04	-0.0002 (ppm)	-116.1074
2/21/2018 22:23:12	R1801311-013 100X	Al (394.401 nm)	0.0207 (ppm)	1.98	0.0207 (ppm)	385.3924
2/21/2018 22:23:12	R1801311-013 100X	As (188.980 nm)	0.0015 (ppm)	64.89	0.0015 (ppm)	-1.8403
2/21/2018 22:23:12	R1801311-013 100X	B (249.772 nm)	0.0280 (ppm)	0.88	0.0280 (ppm)	950.1252
2/21/2018 22:23:12	R1801311-013 100X	Ba (230.424 nm)	0.0024 (ppm)	1.46	0.0024 (ppm)	90.4910
2/21/2018 22:23:12	R1801311-013 100X	Be (313.107 nm)	0.0000 (ppm)	9.04	0.0000 (ppm)	-563.4612
2/21/2018 22:23:12	R1801311-013 100X	Ca (227.547 nm)	93.7626 o (ppm)	0.38	93.7626 (ppm)	6456.2605
2/21/2018 22:23:12	R1801311-013 100X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.5441
2/21/2018 22:23:12	R1801311-013 100X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.3204
2/21/2018 22:23:12	R1801311-013 100X	Cr (267.716 nm)	-0.0003 u (ppm)	38.57	-0.0003 (ppm)	-26.0896
2/21/2018 22:23:12	R1801311-013 100X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	23.3944
2/21/2018 22:23:12	R1801311-013 100X	Fe (234.350 nm)	0.1073 (ppm)	0.69	0.1073 (ppm)	1279.5723
2/21/2018 22:23:12	R1801311-013 100X	K (766.491 nm)	4.6046 (ppm)	0.17	4.6046 (ppm)	16998.2039
2/21/2018 22:23:12	R1801311-013 100X	Mg (279.078 nm)	7.3349 (ppm)	0.61	7.3349 (ppm)	15627.6671
2/21/2018 22:23:12	R1801311-013 100X	Mn (257.610 nm)	0.0677 (ppm)	0.63	0.0677 (ppm)	22430.8680
2/21/2018 22:23:12	R1801311-013 100X	Mo (202.032 nm)	-0.0002 u (ppm)	73.62	-0.0002 (ppm)	4.1327
2/21/2018 22:23:12	R1801311-013 100X	Na (588.995 nm)	76.2745 o (ppm)	0.14	76.2745 (ppm)	4233282.8908
2/21/2018 22:23:12	R1801311-013 100X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.6781
2/21/2018 22:23:12	R1801311-013 100X	Pb (220.353 nm)	-0.0005 u (ppm)	33.41	-0.0005 (ppm)	3.5293
2/21/2018 22:23:12	R1801311-013 100X	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.9139
2/21/2018 22:23:12	R1801311-013 100X	Se (196.026 nm)	-0.0020 u (ppm)	68.17	-0.0020 (ppm)	-2.8637
2/21/2018 22:23:12	R1801311-013 100X	Sn (189.925 nm)	-0.0015 u (ppm)	89.03	-0.0015 (ppm)	-2.5513
2/21/2018 22:23:12	R1801311-013 100X	Sr (216.596 nm)	1.4753 (ppm)	0.98	1.4753 (ppm)	21628.5835
2/21/2018 22:23:12	R1801311-013 100X	Ti (336.122 nm)	0.0004 (ppm)	9.35	0.0004 (ppm)	-385.3745
2/21/2018 22:23:12	R1801311-013 100X	Tl (351.923 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	7.4098
2/21/2018 22:23:12	R1801311-013 100X	V (292.401 nm)	0.0003 (ppm)	15.62	0.0003 (ppm)	100.4945
2/21/2018 22:23:12	R1801311-013 100X	Y (360.074 nm)	0.96 (Ratio)	0.45	0.96 (Ratio)	942438.33
2/21/2018 22:23:12	R1801311-013 100X	Y_R (360.074 nm)	0.96 (Ratio)	0.45	0.96 (Ratio)	943325.20
2/21/2018 22:23:12	R1801311-013 100X	Zn (213.857 nm)	0.0008 (ppm)	3.04	0.0008 (ppm)	-1.3270
2/21/2018 22:26:33	R1801311-014 100X	Ag (328.068 nm)	-0.0002 u (ppm)	38.62	-0.0002 (ppm)	-118.4852
2/21/2018 22:26:33	R1801311-014 100X	Al (394.401 nm)	0.0234 (ppm)	1.85	0.0234 (ppm)	423.2114
2/21/2018 22:26:33	R1801311-014 100X	As (188.980 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-5.1362
2/21/2018 22:26:33	R1801311-014 100X	B (249.772 nm)	0.0259 (ppm)	0.62	0.0259 (ppm)	886.0119
2/21/2018 22:26:33	R1801311-014 100X	Ba (230.424 nm)	0.0007 (ppm)	13.70	0.0007 (ppm)	30.2861
2/21/2018 22:26:33	R1801311-014 100X	Be (313.107 nm)	0.0000 (ppm)	40.90	0.0000 (ppm)	-603.3944
2/21/2018 22:26:33	R1801311-014 100X	Ca (227.547 nm)	43.8778 (ppm)	0.37	43.8778 (ppm)	3025.4240
2/21/2018 22:26:33	R1801311-014 100X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	17.5717
2/21/2018 22:26:33	R1801311-014 100X	Co (230.786 nm)	-0.0001 u (ppm)	97.29	-0.0001 (ppm)	-6.3827
2/21/2018 22:26:33	R1801311-014 100X	Cr (267.716 nm)	-0.0002 u (ppm)	37.94	-0.0002 (ppm)	-21.8566
2/21/2018 22:26:33	R1801311-014 100X	Cu (327.395 nm)	0.0001 (ppm)	41.59	0.0001 (ppm)	31.6417
2/21/2018 22:26:33	R1801311-014 100X	Fe (234.350 nm)	0.0782 (ppm)	0.23	0.0782 (ppm)	943.6098
2/21/2018 22:26:33	R1801311-014 100X	K (766.491 nm)	7.0967 (ppm)	0.30	7.0967 (ppm)	26204.9294
2/21/2018 22:26:33	R1801311-014 100X	Mg (279.078 nm)	6.8862 (ppm)	0.47	6.8862 (ppm)	14671.3644

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:26:33	R1801311-014 100X	Mn (257.610 nm)	0.0384 (ppm)	0.53	0.0384 (ppm)	12714.2542
2/21/2018 22:26:33	R1801311-014 100X	Mo (202.032 nm)	-0.0004 u (ppm)	77.36	-0.0004 (ppm)	2.3972
2/21/2018 22:26:33	R1801311-014 100X	Na (588.995 nm)	392.6419 o (ppm)	0.51	392.6419 (ppm)	21809631.3830
2/21/2018 22:26:33	R1801311-014 100X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.9200
2/21/2018 22:26:33	R1801311-014 100X	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	4.8882
2/21/2018 22:26:33	R1801311-014 100X	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.1569
2/21/2018 22:26:33	R1801311-014 100X	Se (196.026 nm)	-0.0019 u (ppm)	12.39	-0.0019 (ppm)	-2.7422
2/21/2018 22:26:33	R1801311-014 100X	Sn (189.925 nm)	0.0006 (ppm)	25.89	0.0006 (ppm)	0.2264
2/21/2018 22:26:33	R1801311-014 100X	Sr (216.596 nm)	0.8797 (ppm)	1.11	0.8797 (ppm)	12896.1263
2/21/2018 22:26:33	R1801311-014 100X	Ti (336.122 nm)	0.0003 (ppm)	29.62	0.0003 (ppm)	-408.2106
2/21/2018 22:26:33	R1801311-014 100X	Ti (351.923 nm)	0.0022 (ppm)	> 100.00	0.0022 (ppm)	6.0949
2/21/2018 22:26:33	R1801311-014 100X	V (292.401 nm)	0.0005 (ppm)	20.03	0.0005 (ppm)	107.5341
2/21/2018 22:26:33	R1801311-014 100X	Y (360.074 nm)	0.90 (Ratio)	0.64	0.90 (Ratio)	886965.51
2/21/2018 22:26:33	R1801311-014 100X	Y_R (360.074 nm)	0.90 (Ratio)	0.64	0.90 (Ratio)	887867.87
2/21/2018 22:26:33	R1801311-014 100X	Zn (213.857 nm)	0.0010 (ppm)	4.34	0.0010 (ppm)	5.0640
2/21/2018 22:29:54	R1801311-015 100X	Ag (328.068 nm)	-0.0001 u (ppm)	79.70	-0.0001 (ppm)	-112.2957
2/21/2018 22:29:54	R1801311-015 100X	Al (394.401 nm)	0.0234 (ppm)	3.09	0.0234 (ppm)	423.6269
2/21/2018 22:29:54	R1801311-015 100X	As (188.980 nm)	0.0009 (ppm)	49.24	0.0009 (ppm)	-2.4287
2/21/2018 22:29:54	R1801311-015 100X	B (249.772 nm)	0.0283 (ppm)	0.70	0.0283 (ppm)	961.3749
2/21/2018 22:29:54	R1801311-015 100X	Ba (230.424 nm)	0.0012 (ppm)	4.38	0.0012 (ppm)	47.5483
2/21/2018 22:29:54	R1801311-015 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-576.7228
2/21/2018 22:29:54	R1801311-015 100X	Ca (227.547 nm)	142.2442 o (ppm)	0.17	142.2442 (ppm)	9790.5866
2/21/2018 22:29:54	R1801311-015 100X	Cd (214.439 nm)	0.0000 u (ppm)	26.81	0.0000 (ppm)	14.6486
2/21/2018 22:29:54	R1801311-015 100X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.9060
2/21/2018 22:29:54	R1801311-015 100X	Cr (267.716 nm)	-0.0003 u (ppm)	17.46	-0.0003 (ppm)	-26.6923
2/21/2018 22:29:54	R1801311-015 100X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	34.1544
2/21/2018 22:29:54	R1801311-015 100X	Fe (234.350 nm)	0.4015 (ppm)	0.50	0.4015 (ppm)	4684.0022
2/21/2018 22:29:54	R1801311-015 100X	K (766.491 nm)	11.6298 (ppm)	0.29	11.6298 (ppm)	42952.1156
2/21/2018 22:29:54	R1801311-015 100X	Mg (279.078 nm)	26.2705 (ppm)	0.42	26.2705 (ppm)	55984.0329
2/21/2018 22:29:54	R1801311-015 100X	Mn (257.610 nm)	0.1516 (ppm)	0.56	0.1516 (ppm)	50230.1207
2/21/2018 22:29:54	R1801311-015 100X	Mo (202.032 nm)	-0.0004 u (ppm)	43.46	-0.0004 (ppm)	1.8195
2/21/2018 22:29:54	R1801311-015 100X	Na (588.995 nm)	217.2467 o (ppm)	0.38	217.2467 (ppm)	12065239.6238
2/21/2018 22:29:54	R1801311-015 100X	Ni (230.299 nm)	-0.0010 u (ppm)	58.11	-0.0010 (ppm)	-29.1877
2/21/2018 22:29:54	R1801311-015 100X	Pb (220.353 nm)	-0.0013 u (ppm)	92.72	-0.0013 (ppm)	1.6637
2/21/2018 22:29:54	R1801311-015 100X	Sb (217.582 nm)	-0.0020 u (ppm)	58.80	-0.0020 (ppm)	-3.5393
2/21/2018 22:29:54	R1801311-015 100X	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	0.0996
2/21/2018 22:29:54	R1801311-015 100X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.1614
2/21/2018 22:29:54	R1801311-015 100X	Sr (216.596 nm)	2.8257 (ppm)	1.14	2.8257 (ppm)	41426.5992
2/21/2018 22:29:54	R1801311-015 100X	Ti (336.122 nm)	0.0006 (ppm)	4.74	0.0006 (ppm)	-338.9231
2/21/2018 22:29:54	R1801311-015 100X	Ti (351.923 nm)	0.0063 (ppm)	22.75	0.0063 (ppm)	18.5544
2/21/2018 22:29:54	R1801311-015 100X	V (292.401 nm)	0.0003 (ppm)	32.52	0.0003 (ppm)	98.3309
2/21/2018 22:29:54	R1801311-015 100X	Y (360.074 nm)	0.92 (Ratio)	0.54	0.92 (Ratio)	900815.37
2/21/2018 22:29:54	R1801311-015 100X	Y_R (360.074 nm)	0.92 (Ratio)	0.54	0.92 (Ratio)	901712.86
2/21/2018 22:29:54	R1801311-015 100X	Zn (213.857 nm)	0.0010 (ppm)	3.17	0.0010 (ppm)	3.1714
2/21/2018 22:33:16	R1801311-016 100X	Ag (328.068 nm)	-0.0003 u (ppm)	14.42	-0.0003 (ppm)	-123.0949
2/21/2018 22:33:16	R1801311-016 100X	Al (394.401 nm)	0.0186 (ppm)	2.98	0.0186 (ppm)	354.7766
2/21/2018 22:33:16	R1801311-016 100X	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.9174
2/21/2018 22:33:16	R1801311-016 100X	B (249.772 nm)	0.0523 (ppm)	2.14	0.0523 (ppm)	1710.0708
2/21/2018 22:33:16	R1801311-016 100X	Ba (230.424 nm)	0.0006 (ppm)	9.60	0.0006 (ppm)	26.5989
2/21/2018 22:33:16	R1801311-016 100X	Be (313.107 nm)	0.0000 (ppm)	74.34	0.0000 (ppm)	-568.6650
2/21/2018 22:33:16	R1801311-016 100X	Ca (227.547 nm)	67.0966 o (ppm)	1.80	67.0966 (ppm)	4622.3023

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:33:16	R1801311-016 100X	Cd (214.439 nm)	0.0001 (ppm)	51.85	0.0001 (ppm)	17.3287
2/21/2018 22:33:16	R1801311-016 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.8799
2/21/2018 22:33:16	R1801311-016 100X	Cr (267.716 nm)	-0.0002 u (ppm)	29.94	-0.0002 (ppm)	-20.0939
2/21/2018 22:33:16	R1801311-016 100X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	31.7936
2/21/2018 22:33:16	R1801311-016 100X	Fe (234.350 nm)	0.2593 (ppm)	2.13	0.2593 (ppm)	3038.6541
2/21/2018 22:33:16	R1801311-016 100X	K (766.491 nm)	8.2606 (ppm)	1.77	8.2606 (ppm)	30504.9075
2/21/2018 22:33:16	R1801311-016 100X	Mg (279.078 nm)	11.6300 (ppm)	1.96	11.6300 (ppm)	24781.6165
2/21/2018 22:33:16	R1801311-016 100X	Mn (257.610 nm)	0.0791 (ppm)	1.93	0.0791 (ppm)	26216.0876
2/21/2018 22:33:16	R1801311-016 100X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.3803
2/21/2018 22:33:16	R1801311-016 100X	Na (588.995 nm)	104.7602 o (ppm)	1.62	104.7602 (ppm)	5815853.4111
2/21/2018 22:33:16	R1801311-016 100X	Ni (230.299 nm)	-0.0002 u (ppm)	29.84	-0.0002 (ppm)	-23.6724
2/21/2018 22:33:16	R1801311-016 100X	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.3314
2/21/2018 22:33:16	R1801311-016 100X	Sb (217.582 nm)	0.0003 (ppm)	27.46	0.0003 (ppm)	0.0949
2/21/2018 22:33:16	R1801311-016 100X	Se (196.026 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	-3.1608
2/21/2018 22:33:16	R1801311-016 100X	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6008
2/21/2018 22:33:16	R1801311-016 100X	Sr (216.596 nm)	1.4134 (ppm)	3.15	1.4134 (ppm)	20719.9366
2/21/2018 22:33:16	R1801311-016 100X	Ti (336.122 nm)	0.0001 (ppm)	31.89	0.0001 (ppm)	-436.5126
2/21/2018 22:33:16	R1801311-016 100X	Tl (351.923 nm)	0.0030 (ppm)	74.42	0.0030 (ppm)	8.6032
2/21/2018 22:33:16	R1801311-016 100X	V (292.401 nm)	0.0003 (ppm)	17.12	0.0003 (ppm)	101.4240
2/21/2018 22:33:16	R1801311-016 100X	Y (360.074 nm)	0.95 (Ratio)	1.32	0.95 (Ratio)	934602.04
2/21/2018 22:33:16	R1801311-016 100X	Y_R (360.074 nm)	0.95 (Ratio)	1.32	0.95 (Ratio)	935518.21
2/21/2018 22:33:16	R1801311-016 100X	Zn (213.857 nm)	0.0009 (ppm)	15.82	0.0009 (ppm)	1.5520
2/21/2018 22:36:37	R1801311-009 1000X	Ag (328.068 nm)	-0.0002 u (ppm)	37.44	-0.0002 (ppm)	-121.2661
2/21/2018 22:36:37	R1801311-009 1000X	Al (394.401 nm)	0.0104 (ppm)	0.43	0.0104 (ppm)	238.2153
2/21/2018 22:36:37	R1801311-009 1000X	As (188.980 nm)	0.0011 (ppm)	84.09	0.0011 (ppm)	-2.2543
2/21/2018 22:36:37	R1801311-009 1000X	B (249.772 nm)	0.0009 (ppm)	2.89	0.0009 (ppm)	103.6862
2/21/2018 22:36:37	R1801311-009 1000X	Ba (230.424 nm)	0.0010 (ppm)	1.82	0.0010 (ppm)	39.9715
2/21/2018 22:36:37	R1801311-009 1000X	Be (313.107 nm)	0.0000 (ppm)	27.45	0.0000 (ppm)	-542.2462
2/21/2018 22:36:37	R1801311-009 1000X	Ca (227.547 nm)	18.2586 (ppm)	0.29	18.2586 (ppm)	1263.4618
2/21/2018 22:36:37	R1801311-009 1000X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.7536
2/21/2018 22:36:37	R1801311-009 1000X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.5156
2/21/2018 22:36:37	R1801311-009 1000X	Cr (267.716 nm)	-0.0001 u (ppm)	28.31	-0.0001 (ppm)	-16.6281
2/21/2018 22:36:37	R1801311-009 1000X	Cu (327.395 nm)	-0.0001 u (ppm)	65.30	-0.0001 (ppm)	18.3149
2/21/2018 22:36:37	R1801311-009 1000X	Fe (234.350 nm)	0.0905 (ppm)	0.56	0.0905 (ppm)	1086.0739
2/21/2018 22:36:37	R1801311-009 1000X	K (766.491 nm)	0.2104 (ppm)	3.15	0.2104 (ppm)	764.2247
2/21/2018 22:36:37	R1801311-009 1000X	Mg (279.078 nm)	0.1862 (ppm)	0.68	0.1862 (ppm)	391.7646
2/21/2018 22:36:37	R1801311-009 1000X	Mn (257.610 nm)	0.0069 (ppm)	0.68	0.0069 (ppm)	2299.7396
2/21/2018 22:36:37	R1801311-009 1000X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.7404
2/21/2018 22:36:37	R1801311-009 1000X	Na (588.995 nm)	16.4474 (ppm)	0.83	16.4474 (ppm)	909482.2397
2/21/2018 22:36:37	R1801311-009 1000X	Ni (230.299 nm)	-0.0003 u (ppm)	99.95	-0.0003 (ppm)	-24.5077
2/21/2018 22:36:37	R1801311-009 1000X	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.4440
2/21/2018 22:36:37	R1801311-009 1000X	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.9128
2/21/2018 22:36:37	R1801311-009 1000X	Se (196.026 nm)	-0.0007 u (ppm)	63.70	-0.0007 (ppm)	-1.5196
2/21/2018 22:36:37	R1801311-009 1000X	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.2952
2/21/2018 22:36:37	R1801311-009 1000X	Sr (216.596 nm)	0.1870 (ppm)	1.15	0.1870 (ppm)	2739.1590
2/21/2018 22:36:37	R1801311-009 1000X	Ti (336.122 nm)	-0.0001 u (ppm)	28.73	-0.0001 (ppm)	-494.7414
2/21/2018 22:36:37	R1801311-009 1000X	Tl (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.4633
2/21/2018 22:36:37	R1801311-009 1000X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	80.5982
2/21/2018 22:36:37	R1801311-009 1000X	Y (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	990401.89
2/21/2018 22:36:37	R1801311-009 1000X	Y_R (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	991277.82
2/21/2018 22:36:37	R1801311-009 1000X	Zn (213.857 nm)	0.0008 (ppm)	18.18	0.0008 (ppm)	-3.5978

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:39:58	R1801311-010 1000X	Ag (328.068 nm)	-0.0002 u (ppm)	28.45	-0.0002 (ppm)	-120.6107
2/21/2018 22:39:58	R1801311-010 1000X	Al (394.401 nm)	0.0108 (ppm)	7.88	0.0108 (ppm)	243.7528
2/21/2018 22:39:58	R1801311-010 1000X	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-4.0583
2/21/2018 22:39:58	R1801311-010 1000X	B (249.772 nm)	0.0025 (ppm)	8.25	0.0025 (ppm)	151.7964
2/21/2018 22:39:58	R1801311-010 1000X	Ba (230.424 nm)	0.0008 (ppm)	3.18	0.0008 (ppm)	32.9450
2/21/2018 22:39:58	R1801311-010 1000X	Be (313.107 nm)	0.0000 (ppm)	13.95	0.0000 (ppm)	-535.7793
2/21/2018 22:39:58	R1801311-010 1000X	Ca (227.547 nm)	21.0085 (ppm)	0.09	21.0085 (ppm)	1452.5878
2/21/2018 22:39:58	R1801311-010 1000X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.5315
2/21/2018 22:39:58	R1801311-010 1000X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.6650
2/21/2018 22:39:58	R1801311-010 1000X	Cr (267.716 nm)	-0.0002 u (ppm)	39.71	-0.0002 (ppm)	-18.1645
2/21/2018 22:39:58	R1801311-010 1000X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	26.5394
2/21/2018 22:39:58	R1801311-010 1000X	Fe (234.350 nm)	0.0245 (ppm)	1.62	0.0245 (ppm)	321.6725
2/21/2018 22:39:58	R1801311-010 1000X	K (766.491 nm)	0.2308 (ppm)	1.69	0.2308 (ppm)	839.8004
2/21/2018 22:39:58	R1801311-010 1000X	Mg (279.078 nm)	0.2112 (ppm)	1.07	0.2112 (ppm)	445.1596
2/21/2018 22:39:58	R1801311-010 1000X	Mn (257.610 nm)	0.0129 (ppm)	0.73	0.0129 (ppm)	4280.1469
2/21/2018 22:39:58	R1801311-010 1000X	Mo (202.032 nm)	-0.0004 u (ppm)	52.13	-0.0004 (ppm)	2.6997
2/21/2018 22:39:58	R1801311-010 1000X	Na (588.995 nm)	14.3337 (ppm)	0.56	14.3337 (ppm)	792048.4060
2/21/2018 22:39:58	R1801311-010 1000X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.8111
2/21/2018 22:39:58	R1801311-010 1000X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.2619
2/21/2018 22:39:58	R1801311-010 1000X	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.6988
2/21/2018 22:39:58	R1801311-010 1000X	Se (196.026 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-3.3230
2/21/2018 22:39:58	R1801311-010 1000X	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.0868
2/21/2018 22:39:58	R1801311-010 1000X	Sr (216.596 nm)	0.0845 (ppm)	1.07	0.0845 (ppm)	1237.2638
2/21/2018 22:39:58	R1801311-010 1000X	Ti (336.122 nm)	-0.0001 u (ppm)	42.53	-0.0001 (ppm)	-481.9045
2/21/2018 22:39:58	R1801311-010 1000X	Tl (351.923 nm)	0.0007 (ppm)	44.65	0.0007 (ppm)	1.2846
2/21/2018 22:39:58	R1801311-010 1000X	V (292.401 nm)	0.0002 (ppm)	87.71	0.0002 (ppm)	94.4820
2/21/2018 22:39:58	R1801311-010 1000X	Y (360.074 nm)	1.01 (Ratio)	0.42	1.01 (Ratio)	989543.98
2/21/2018 22:39:58	R1801311-010 1000X	Y_R (360.074 nm)	1.01 (Ratio)	0.42	1.01 (Ratio)	990405.85
2/21/2018 22:39:58	R1801311-010 1000X	Zn (213.857 nm)	0.0007 (ppm)	5.25	0.0007 (ppm)	-6.4719
2/21/2018 22:43:19	Continuing Calibration Verification	Ag (328.068 nm)	0.4834 (ppm)	1.02	0.4834 (ppm)	37693.4479
2/21/2018 22:43:19	Continuing Calibration Verification	Al (394.401 nm)	9.4491 (ppm)	1.33	9.4491 (ppm)	135066.2235
2/21/2018 22:43:19	Continuing Calibration Verification	As (188.980 nm)	0.9351 (ppm)	0.71	0.9351 (ppm)	915.0663
2/21/2018 22:43:19	Continuing Calibration Verification	B (249.772 nm)	2.3942 (ppm)	1.11	2.3942 (ppm)	75019.6783
2/21/2018 22:43:19	Continuing Calibration Verification	Ba (230.424 nm)	10.2798 (ppm)	1.36	10.2798 (ppm)	366192.6599
2/21/2018 22:43:19	Continuing Calibration Verification	Be (313.107 nm)	0.2514 (ppm)	0.95	0.2514 (ppm)	396916.4590
2/21/2018 22:43:19	Continuing Calibration Verification	Ca (227.547 nm)	23.4188 (ppm)	1.12	23.4188 (ppm)	1618.3529
2/21/2018 22:43:19	Continuing Calibration Verification	Cd (214.439 nm)	0.4889 (ppm)	0.98	0.4889 (ppm)	11160.1547
2/21/2018 22:43:19	Continuing Calibration Verification	Co (230.786 nm)	2.5128 (ppm)	1.02	2.5128 (ppm)	27743.2854
2/21/2018 22:43:19	Continuing Calibration Verification	Cr (267.716 nm)	0.5187 (ppm)	0.98	0.5187 (ppm)	26633.8684
2/21/2018 22:43:19	Continuing Calibration Verification	Cu (327.395 nm)	1.1909 (ppm)	1.40	1.1909 (ppm)	82851.0470
2/21/2018 22:43:19	Continuing Calibration Verification	Fe (234.350 nm)	4.9906 (ppm)	1.05	4.9906 (ppm)	57782.2319
2/21/2018 22:43:19	Continuing Calibration Verification	K (766.491 nm)	24.3310 (ppm)	1.44	24.3310 (ppm)	89875.4765
2/21/2018 22:43:19	Continuing Calibration Verification	Mg (279.078 nm)	24.6422 (ppm)	1.00	24.6422 (ppm)	52513.8368
2/21/2018 22:43:19	Continuing Calibration Verification	Mn (257.610 nm)	0.7602 (ppm)	0.98	0.7602 (ppm)	251857.1400
2/21/2018 22:43:19	Continuing Calibration Verification	Mo (202.032 nm)	2.4014 (ppm)	1.15	2.4014 (ppm)	26564.8811
2/21/2018 22:43:19	Continuing Calibration Verification	Na (588.995 nm)	24.5192 (ppm)	1.49	24.5192 (ppm)	1357923.4531
2/21/2018 22:43:19	Continuing Calibration Verification	Ni (230.299 nm)	2.0328 (ppm)	1.05	2.0328 (ppm)	14568.1807
2/21/2018 22:43:19	Continuing Calibration Verification	Pb (220.353 nm)	0.4873 (ppm)	0.86	0.4873 (ppm)	1158.8517
2/21/2018 22:43:19	Continuing Calibration Verification	Sb (217.582 nm)	4.6848 (ppm)	1.28	4.6848 (ppm)	7632.8449
2/21/2018 22:43:19	Continuing Calibration Verification	Se (196.026 nm)	0.4647 (ppm)	1.29	0.4647 (ppm)	467.4871
2/21/2018 22:43:19	Continuing Calibration Verification	Sn (189.925 nm)	4.8856 (ppm)	1.57	4.8856 (ppm)	6334.5593

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:43:19	Continuing Calibration Verification	Sr (216.596 nm)	2.5240 (ppm)	0.90	2.5240 (ppm)	37003.4635
2/21/2018 22:43:19	Continuing Calibration Verification	Ti (336.122 nm)	2.4716 (ppm)	1.06	2.4716 (ppm)	561500.7391
2/21/2018 22:43:19	Continuing Calibration Verification	Ti (351.923 nm)	0.9766 (ppm)	1.39	0.9766 (ppm)	3023.4394
2/21/2018 22:43:19	Continuing Calibration Verification	V (292.401 nm)	2.4750 (ppm)	1.06	2.4750 (ppm)	96493.3308
2/21/2018 22:43:19	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	1.12	0.98 (Ratio)	966184.22
2/21/2018 22:43:19	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	1.12	0.98 (Ratio)	967058.50
2/21/2018 22:43:19	Continuing Calibration Verification	Zn (213.857 nm)	0.9751 (ppm)	1.03	0.9751 (ppm)	30979.0205
2/21/2018 22:46:41	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-104.3223
2/21/2018 22:46:41	Continuing Calibration Blank	Al (394.401 nm)	0.0047 (ppm)	5.12	0.0047 (ppm)	156.8875
2/21/2018 22:46:41	Continuing Calibration Blank	As (188.980 nm)	0.0014 (ppm)	61.71	0.0014 (ppm)	-1.8925
2/21/2018 22:46:41	Continuing Calibration Blank	B (249.772 nm)	0.0023 (ppm)	7.37	0.0023 (ppm)	145.0479
2/21/2018 22:46:41	Continuing Calibration Blank	Ba (230.424 nm)	0.0048 (ppm)	0.53	0.0048 (ppm)	176.7472
2/21/2018 22:46:41	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	6.29	0.0001 (ppm)	-374.3662
2/21/2018 22:46:41	Continuing Calibration Blank	Ca (227.547 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	7.5373
2/21/2018 22:46:41	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	35.29	0.0002 (ppm)	21.1939
2/21/2018 22:46:41	Continuing Calibration Blank	Co (230.786 nm)	0.0012 (ppm)	7.04	0.0012 (ppm)	7.3650
2/21/2018 22:46:41	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	67.47	0.0002 (ppm)	-0.9128
2/21/2018 22:46:41	Continuing Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	14.65	0.0004 (ppm)	56.5103
2/21/2018 22:46:41	Continuing Calibration Blank	Fe (234.350 nm)	0.0017 (ppm)	17.91	0.0017 (ppm)	57.7842
2/21/2018 22:46:41	Continuing Calibration Blank	K (766.491 nm)	0.0302 (ppm)	12.20	0.0302 (ppm)	98.4370
2/21/2018 22:46:41	Continuing Calibration Blank	Mg (279.078 nm)	0.0114 (ppm)	4.96	0.0114 (ppm)	19.3812
2/21/2018 22:46:41	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	1.69	0.0004 (ppm)	127.0720
2/21/2018 22:46:41	Continuing Calibration Blank	Mo (202.032 nm)	0.0029 (ppm)	11.48	0.0029 (ppm)	38.5077
2/21/2018 22:46:41	Continuing Calibration Blank	Na (588.995 nm)	0.0132 (ppm)	13.21	0.0132 (ppm)	-3551.3765
2/21/2018 22:46:41	Continuing Calibration Blank	Ni (230.299 nm)	0.0008 (ppm)	15.13	0.0008 (ppm)	-16.2737
2/21/2018 22:46:41	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.2709
2/21/2018 22:46:41	Continuing Calibration Blank	Sb (217.582 nm)	0.0026 (ppm)	63.69	0.0026 (ppm)	3.9596
2/21/2018 22:46:41	Continuing Calibration Blank	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6886
2/21/2018 22:46:41	Continuing Calibration Blank	Sn (189.925 nm)	0.0031 (ppm)	19.93	0.0031 (ppm)	3.4022
2/21/2018 22:46:41	Continuing Calibration Blank	Sr (216.596 nm)	0.0011 (ppm)	20.76	0.0011 (ppm)	13.6753
2/21/2018 22:46:41	Continuing Calibration Blank	Ti (336.122 nm)	0.0017 (ppm)	3.11	0.0017 (ppm)	-77.4080
2/21/2018 22:46:41	Continuing Calibration Blank	Ti (351.923 nm)	0.0037 (ppm)	11.65	0.0037 (ppm)	10.7311
2/21/2018 22:46:41	Continuing Calibration Blank	V (292.401 nm)	0.0012 (ppm)	7.68	0.0012 (ppm)	136.7397
2/21/2018 22:46:41	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.27	1.03 (Ratio)	1014925.94
2/21/2018 22:46:41	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.27	1.03 (Ratio)	1015727.41
2/21/2018 22:46:41	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	14.24	0.0004 (ppm)	-16.3360
2/21/2018 22:50:01	R1801311-011 1000X	Ag (328.068 nm)	-0.0002 u (ppm)	30.60	-0.0002 (ppm)	-117.8721
2/21/2018 22:50:01	R1801311-011 1000X	Al (394.401 nm)	0.0028 (ppm)	8.55	0.0028 (ppm)	128.7147
2/21/2018 22:50:01	R1801311-011 1000X	As (188.980 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	-1.3190
2/21/2018 22:50:01	R1801311-011 1000X	B (249.772 nm)	0.0035 (ppm)	3.50	0.0035 (ppm)	183.9422
2/21/2018 22:50:01	R1801311-011 1000X	Ba (230.424 nm)	0.0000 (ppm)	70.22	0.0000 (ppm)	7.0205
2/21/2018 22:50:01	R1801311-011 1000X	Be (313.107 nm)	0.0000 (ppm)	31.13	0.0000 (ppm)	-555.0077
2/21/2018 22:50:01	R1801311-011 1000X	Ca (227.547 nm)	2.6408 (ppm)	0.82	2.6408 (ppm)	189.3474
2/21/2018 22:50:01	R1801311-011 1000X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	17.0823
2/21/2018 22:50:01	R1801311-011 1000X	Co (230.786 nm)	0.0002 (ppm)	59.32	0.0002 (ppm)	-3.4969
2/21/2018 22:50:01	R1801311-011 1000X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-12.5100
2/21/2018 22:50:01	R1801311-011 1000X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	22.0887
2/21/2018 22:50:01	R1801311-011 1000X	Fe (234.350 nm)	0.0020 (ppm)	8.96	0.0020 (ppm)	62.0278
2/21/2018 22:50:01	R1801311-011 1000X	K (766.491 nm)	0.3899 (ppm)	0.89	0.3899 (ppm)	1427.4729
2/21/2018 22:50:01	R1801311-011 1000X	Mg (279.078 nm)	0.5253 (ppm)	0.28	0.5253 (ppm)	1114.4728
2/21/2018 22:50:01	R1801311-011 1000X	Mn (257.610 nm)	0.0029 (ppm)	0.20	0.0029 (ppm)	956.1351

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:50:01	R1801311-011 1000X	Mo (202.032 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	9.6271
2/21/2018 22:50:01	R1801311-011 1000X	Na (588.995 nm)	61.3252 u (ppm)	0.11	61.3252 (ppm)	3402747.6796
2/21/2018 22:50:01	R1801311-011 1000X	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-24.1347
2/21/2018 22:50:01	R1801311-011 1000X	Pb (220.353 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	6.3885
2/21/2018 22:50:01	R1801311-011 1000X	Sb (217.582 nm)	-0.0016 u (ppm)	50.31	-0.0016 (ppm)	-2.9863
2/21/2018 22:50:01	R1801311-011 1000X	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-1.9618
2/21/2018 22:50:01	R1801311-011 1000X	Sn (189.925 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	0.1571
2/21/2018 22:50:01	R1801311-011 1000X	Sr (216.596 nm)	0.0595 (ppm)	0.62	0.0595 (ppm)	870.1247
2/21/2018 22:50:01	R1801311-011 1000X	Ti (336.122 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-464.5055
2/21/2018 22:50:01	R1801311-011 1000X	Ti (351.923 nm)	0.0016 (ppm)	49.69	0.0016 (ppm)	4.1277
2/21/2018 22:50:01	R1801311-011 1000X	V (292.401 nm)	0.0002 (ppm)	67.73	0.0002 (ppm)	95.7800
2/21/2018 22:50:01	R1801311-011 1000X	Y (360.074 nm)	0.99 (Ratio)	0.52	0.99 (Ratio)	972176.53
2/21/2018 22:50:01	R1801311-011 1000X	Y_R (360.074 nm)	0.99 (Ratio)	0.52	0.99 (Ratio)	973051.94
2/21/2018 22:50:01	R1801311-011 1000X	Zn (213.857 nm)	0.0009 (ppm)	3.53	0.0009 (ppm)	-0.4971
2/21/2018 22:53:22	R1801311-012 1000X	Ag (328.068 nm)	-0.0002 u (ppm)	71.89	-0.0002 (ppm)	-117.2852
2/21/2018 22:53:22	R1801311-012 1000X	Al (394.401 nm)	0.0066 (ppm)	10.96	0.0066 (ppm)	184.1333
2/21/2018 22:53:22	R1801311-012 1000X	As (188.980 nm)	0.0017 (ppm)	56.73	0.0017 (ppm)	-1.6003
2/21/2018 22:53:22	R1801311-012 1000X	B (249.772 nm)	0.0014 (ppm)	11.62	0.0014 (ppm)	118.0539
2/21/2018 22:53:22	R1801311-012 1000X	Ba (230.424 nm)	0.0003 (ppm)	30.92	0.0003 (ppm)	15.5693
2/21/2018 22:53:22	R1801311-012 1000X	Be (313.107 nm)	0.0000 (ppm)	14.30	0.0000 (ppm)	-542.3835
2/21/2018 22:53:22	R1801311-012 1000X	Ca (227.547 nm)	9.5342 (ppm)	0.41	9.5342 (ppm)	663.4367
2/21/2018 22:53:22	R1801311-012 1000X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.6893
2/21/2018 22:53:22	R1801311-012 1000X	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-3.9810
2/21/2018 22:53:22	R1801311-012 1000X	Cr (267.716 nm)	-0.0002 u (ppm)	58.20	-0.0002 (ppm)	-17.9284
2/21/2018 22:53:22	R1801311-012 1000X	Cu (327.395 nm)	-0.0001 u (ppm)	34.97	-0.0001 (ppm)	18.8807
2/21/2018 22:53:22	R1801311-012 1000X	Fe (234.350 nm)	0.0051 (ppm)	1.00	0.0051 (ppm)	96.8717
2/21/2018 22:53:22	R1801311-012 1000X	K (766.491 nm)	0.3976 (ppm)	0.65	0.3976 (ppm)	1455.8446
2/21/2018 22:53:22	R1801311-012 1000X	Mg (279.078 nm)	0.9598 (ppm)	0.27	0.9598 (ppm)	2040.5875
2/21/2018 22:53:22	R1801311-012 1000X	Mn (257.610 nm)	0.0075 (ppm)	0.56	0.0075 (ppm)	2493.9764
2/21/2018 22:53:22	R1801311-012 1000X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.3200
2/21/2018 22:53:22	R1801311-012 1000X	Na (588.995 nm)	9.5149 (ppm)	0.37	9.5149 (ppm)	524333.9103
2/21/2018 22:53:22	R1801311-012 1000X	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-22.3062
2/21/2018 22:53:22	R1801311-012 1000X	Pb (220.353 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	6.3596
2/21/2018 22:53:22	R1801311-012 1000X	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	1.0044
2/21/2018 22:53:22	R1801311-012 1000X	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-1.9138
2/21/2018 22:53:22	R1801311-012 1000X	Sn (189.925 nm)	0.0008 (ppm)	72.96	0.0008 (ppm)	0.4384
2/21/2018 22:53:22	R1801311-012 1000X	Sr (216.596 nm)	0.1667 (ppm)	1.43	0.1667 (ppm)	2442.3758
2/21/2018 22:53:22	R1801311-012 1000X	Ti (336.122 nm)	0.0000 u (ppm)	33.85	0.0000 (ppm)	-476.4449
2/21/2018 22:53:22	R1801311-012 1000X	Ti (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.3030
2/21/2018 22:53:22	R1801311-012 1000X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	88.4599
2/21/2018 22:53:22	R1801311-012 1000X	Y (360.074 nm)	1.02 (Ratio)	0.52	1.02 (Ratio)	998039.54
2/21/2018 22:53:22	R1801311-012 1000X	Y_R (360.074 nm)	1.02 (Ratio)	0.52	1.02 (Ratio)	998883.92
2/21/2018 22:53:22	R1801311-012 1000X	Zn (213.857 nm)	0.0008 (ppm)	7.16	0.0008 (ppm)	-3.3256
2/21/2018 22:56:42	R1801311-014 1000X	Ag (328.068 nm)	-0.0002 u (ppm)	18.38	-0.0002 (ppm)	-119.2158
2/21/2018 22:56:42	R1801311-014 1000X	Al (394.401 nm)	0.0045 (ppm)	1.14	0.0045 (ppm)	153.7208
2/21/2018 22:56:42	R1801311-014 1000X	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.8243
2/21/2018 22:56:42	R1801311-014 1000X	B (249.772 nm)	0.0025 (ppm)	5.09	0.0025 (ppm)	151.6004
2/21/2018 22:56:42	R1801311-014 1000X	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	7.7891
2/21/2018 22:56:42	R1801311-014 1000X	Be (313.107 nm)	0.0000 (ppm)	18.37	0.0000 (ppm)	-556.0870
2/21/2018 22:56:42	R1801311-014 1000X	Ca (227.547 nm)	3.9706 (ppm)	0.82	3.9706 (ppm)	280.8006
2/21/2018 22:56:42	R1801311-014 1000X	Cd (214.439 nm)	0.0001 (ppm)	37.67	0.0001 (ppm)	17.7894

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 22:56:42	R1801311-014 1000X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.1826
2/21/2018 22:56:42	R1801311-014 1000X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-11.0981
2/21/2018 22:56:42	R1801311-014 1000X	Cu (327.395 nm)	-0.0001 u (ppm)	28.44	-0.0001 (ppm)	18.6524
2/21/2018 22:56:42	R1801311-014 1000X	Fe (234.350 nm)	0.0067 (ppm)	4.19	0.0067 (ppm)	116.0935
2/21/2018 22:56:42	R1801311-014 1000X	K (766.491 nm)	0.5689 (ppm)	1.34	0.5689 (ppm)	2088.6522
2/21/2018 22:56:42	R1801311-014 1000X	Mg (279.078 nm)	0.7138 (ppm)	0.41	0.7138 (ppm)	1516.3461
2/21/2018 22:56:42	R1801311-014 1000X	Mn (257.610 nm)	0.0040 (ppm)	0.76	0.0040 (ppm)	1321.9099
2/21/2018 22:56:42	R1801311-014 1000X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	7.5751
2/21/2018 22:56:42	R1801311-014 1000X	Na (588.995 nm)	44.3833 (ppm)	0.48	44.3833 (ppm)	2461509.5372
2/21/2018 22:56:42	R1801311-014 1000X	Ni (230.299 nm)	-0.0004 u (ppm)	49.87	-0.0004 (ppm)	-24.7404
2/21/2018 22:56:42	R1801311-014 1000X	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	3.9015
2/21/2018 22:56:42	R1801311-014 1000X	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.5983
2/21/2018 22:56:42	R1801311-014 1000X	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.5349
2/21/2018 22:56:42	R1801311-014 1000X	Sn (189.925 nm)	0.0010 (ppm)	54.17	0.0010 (ppm)	0.7008
2/21/2018 22:56:42	R1801311-014 1000X	Sr (216.596 nm)	0.0923 (ppm)	1.81	0.0923 (ppm)	1351.9315
2/21/2018 22:56:42	R1801311-014 1000X	Ti (336.122 nm)	-0.0001 u (ppm)	70.48	-0.0001 (ppm)	-494.2981
2/21/2018 22:56:42	R1801311-014 1000X	Ti (351.923 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-3.4468
2/21/2018 22:56:42	R1801311-014 1000X	V (292.401 nm)	0.0002 (ppm)	52.13	0.0002 (ppm)	94.8485
2/21/2018 22:56:42	R1801311-014 1000X	Y (360.074 nm)	1.00 (Ratio)	0.54	1.00 (Ratio)	979665.87
2/21/2018 22:56:42	R1801311-014 1000X	Y_R (360.074 nm)	1.00 (Ratio)	0.54	1.00 (Ratio)	980531.38
2/21/2018 22:56:42	R1801311-014 1000X	Zn (213.857 nm)	0.0009 (ppm)	11.82	0.0009 (ppm)	1.6261
2/21/2018 23:00:02	R1801311-015 1000X	Ag (328.068 nm)	-0.0002 u (ppm)	45.74	-0.0002 (ppm)	-119.3574
2/21/2018 23:00:02	R1801311-015 1000X	Al (394.401 nm)	0.0082 (ppm)	7.05	0.0082 (ppm)	206.9375
2/21/2018 23:00:02	R1801311-015 1000X	As (188.980 nm)	0.0017 (ppm)	95.87	0.0017 (ppm)	-1.6457
2/21/2018 23:00:02	R1801311-015 1000X	B (249.772 nm)	0.0026 (ppm)	3.35	0.0026 (ppm)	156.8746
2/21/2018 23:00:02	R1801311-015 1000X	Ba (230.424 nm)	0.0002 (ppm)	41.09	0.0002 (ppm)	11.5164
2/21/2018 23:00:02	R1801311-015 1000X	Be (313.107 nm)	0.0000 (ppm)	24.45	0.0000 (ppm)	-546.9617
2/21/2018 23:00:02	R1801311-015 1000X	Cb (227.547 nm)	12.8047 (ppm)	0.44	12.8047 (ppm)	888.3713
2/21/2018 23:00:02	R1801311-015 1000X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	15.8550
2/21/2018 23:00:02	R1801311-015 1000X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.2832
2/21/2018 23:00:02	R1801311-015 1000X	Cr (267.716 nm)	-0.0001 u (ppm)	86.85	-0.0001 (ppm)	-17.2495
2/21/2018 23:00:02	R1801311-015 1000X	Cu (327.395 nm)	-0.0001 u (ppm)	40.65	-0.0001 (ppm)	17.7252
2/21/2018 23:00:02	R1801311-015 1000X	Fe (234.350 nm)	0.0395 (ppm)	0.28	0.0395 (ppm)	495.7043
2/21/2018 23:00:02	R1801311-015 1000X	K (766.491 nm)	0.9406 (ppm)	0.41	0.9406 (ppm)	3462.0884
2/21/2018 23:00:02	R1801311-015 1000X	Mg (279.078 nm)	2.6041 (ppm)	0.56	2.6041 (ppm)	5544.9415
2/21/2018 23:00:02	R1801311-015 1000X	Mn (257.610 nm)	0.0155 (ppm)	0.46	0.0155 (ppm)	5125.8427
2/21/2018 23:00:02	R1801311-015 1000X	Mo (202.032 nm)	-0.0004 u (ppm)	69.63	-0.0004 (ppm)	2.8688
2/21/2018 23:00:02	R1801311-015 1000X	Na (588.995 nm)	22.3471 (ppm)	0.48	22.3471 (ppm)	1237246.5500
2/21/2018 23:00:02	R1801311-015 1000X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-21.5932
2/21/2018 23:00:02	R1801311-015 1000X	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	4.8550
2/21/2018 23:00:02	R1801311-015 1000X	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.0859
2/21/2018 23:00:02	R1801311-015 1000X	Se (196.026 nm)	-0.0027 u (ppm)	52.76	-0.0027 (ppm)	-3.5375
2/21/2018 23:00:02	R1801311-015 1000X	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.1215
2/21/2018 23:00:02	R1801311-015 1000X	Sr (216.596 nm)	0.2927 (ppm)	0.90	0.2927 (ppm)	4289.2463
2/21/2018 23:00:02	R1801311-015 1000X	Ti (336.122 nm)	-0.0001 u (ppm)	17.48	-0.0001 (ppm)	-490.6951
2/21/2018 23:00:02	R1801311-015 1000X	Ti (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.1415
2/21/2018 23:00:02	R1801311-015 1000X	V (292.401 nm)	0.0001 (ppm)	41.45	0.0001 (ppm)	92.7216
2/21/2018 23:00:02	R1801311-015 1000X	Y (360.074 nm)	1.00 (Ratio)	0.35	1.00 (Ratio)	987353.35
2/21/2018 23:00:02	R1801311-015 1000X	Y_R (360.074 nm)	1.01 (Ratio)	0.35	1.01 (Ratio)	988229.71
2/21/2018 23:00:02	R1801311-015 1000X	Zn (213.857 nm)	0.0008 (ppm)	2.03	0.0008 (ppm)	-1.3624
2/21/2018 23:03:23	Continuing Calibration Verification	Ag (328.068 nm)	0.4865 (ppm)	0.31	0.4865 (ppm)	37939.3396



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 23:03:23	Continuing Calibration Verification	Al (394.401 nm)	9.5050 (ppm)	0.24	9.5050 (ppm)	135855.0449
2/21/2018 23:03:23	Continuing Calibration Verification	As (188.980 nm)	0.9339 (ppm)	0.57	0.9339 (ppm)	913.8684
2/21/2018 23:03:23	Continuing Calibration Verification	B (249.772 nm)	2.4082 (ppm)	0.37	2.4082 (ppm)	75459.9886
2/21/2018 23:03:23	Continuing Calibration Verification	Ba (230.424 nm)	10.3257 (ppm)	0.47	10.3257 (ppm)	367827.9683
2/21/2018 23:03:23	Continuing Calibration Verification	Be (313.107 nm)	0.2530 (ppm)	0.58	0.2530 (ppm)	399428.1433
2/21/2018 23:03:23	Continuing Calibration Verification	Ca (227.547 nm)	23.5943 (ppm)	0.35	23.5943 (ppm)	1630.4269
2/21/2018 23:03:23	Continuing Calibration Verification	Cd (214.439 nm)	0.4896 (ppm)	0.77	0.4896 (ppm)	11177.6677
2/21/2018 23:03:23	Continuing Calibration Verification	Co (230.786 nm)	2.5230 (ppm)	0.57	2.5230 (ppm)	27855.5880
2/21/2018 23:03:23	Continuing Calibration Verification	Cr (267.716 nm)	0.5208 (ppm)	0.52	0.5208 (ppm)	26741.4084
2/21/2018 23:03:23	Continuing Calibration Verification	Cu (327.395 nm)	1.1985 (ppm)	0.28	1.1985 (ppm)	83380.6888
2/21/2018 23:03:23	Continuing Calibration Verification	Fe (234.350 nm)	5.0122 (ppm)	0.52	5.0122 (ppm)	58032.0217
2/21/2018 23:03:23	Continuing Calibration Verification	K (766.491 nm)	24.5319 (ppm)	0.33	24.5319 (ppm)	90617.7745
2/21/2018 23:03:23	Continuing Calibration Verification	Mg (279.078 nm)	24.7421 (ppm)	0.45	24.7421 (ppm)	52726.6637
2/21/2018 23:03:23	Continuing Calibration Verification	Mn (257.610 nm)	0.7635 (ppm)	0.47	0.7635 (ppm)	252932.6190
2/21/2018 23:03:23	Continuing Calibration Verification	Mo (202.032 nm)	2.4110 (ppm)	0.53	2.4110 (ppm)	26671.8859
2/21/2018 23:03:23	Continuing Calibration Verification	Na (588.995 nm)	24.7339 (ppm)	0.43	24.7339 (ppm)	1369849.7378
2/21/2018 23:03:23	Continuing Calibration Verification	Ni (230.299 nm)	2.0440 (ppm)	0.46	2.0440 (ppm)	14648.2543
2/21/2018 23:03:23	Continuing Calibration Verification	Pb (220.353 nm)	0.4893 (ppm)	0.50	0.4893 (ppm)	1163.6267
2/21/2018 23:03:23	Continuing Calibration Verification	Sb (217.582 nm)	4.7220 (ppm)	0.13	4.7220 (ppm)	7693.4357
2/21/2018 23:03:23	Continuing Calibration Verification	Se (196.026 nm)	0.4670 (ppm)	0.48	0.4670 (ppm)	469.8494
2/21/2018 23:03:23	Continuing Calibration Verification	Sn (189.925 nm)	4.9044 (ppm)	0.53	4.9044 (ppm)	6358.9610
2/21/2018 23:03:23	Continuing Calibration Verification	Sr (216.596 nm)	2.5268 (ppm)	0.78	2.5268 (ppm)	37044.4896
2/21/2018 23:03:23	Continuing Calibration Verification	Ti (336.122 nm)	2.4829 (ppm)	0.29	2.4829 (ppm)	564068.2768
2/21/2018 23:03:23	Continuing Calibration Verification	Tl (351.923 nm)	0.9781 (ppm)	0.15	0.9781 (ppm)	3028.3040
2/21/2018 23:03:23	Continuing Calibration Verification	V (292.401 nm)	2.4853 (ppm)	0.39	2.4853 (ppm)	96897.4671
2/21/2018 23:03:23	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.62	0.98 (Ratio)	963831.46
2/21/2018 23:03:23	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.62	0.98 (Ratio)	964732.22
2/21/2018 23:03:23	Continuing Calibration Verification	Zn (213.857 nm)	0.9791 (ppm)	0.47	0.9791 (ppm)	31107.1580
2/21/2018 23:06:44	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.4605
2/21/2018 23:06:44	Continuing Calibration Blank	Al (394.401 nm)	0.0054 (ppm)	3.07	0.0054 (ppm)	166.2577
2/21/2018 23:06:44	Continuing Calibration Blank	As (188.980 nm)	0.0021 u (ppm)	94.92	0.0021 (ppm)	-1.2359
2/21/2018 23:06:44	Continuing Calibration Blank	B (249.772 nm)	0.0025 (ppm)	10.35	0.0025 (ppm)	152.8034
2/21/2018 23:06:44	Continuing Calibration Blank	Ba (230.424 nm)	0.0056 (ppm)	1.50	0.0056 (ppm)	204.7304
2/21/2018 23:06:44	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	4.11	0.0001 (ppm)	-349.9179
2/21/2018 23:06:44	Continuing Calibration Blank	Ca (227.547 nm)	0.0247 u (ppm)	> 100.00	0.0247 (ppm)	9.4194
2/21/2018 23:06:44	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	40.74	0.0002 (ppm)	20.3970
2/21/2018 23:06:44	Continuing Calibration Blank	Co (230.786 nm)	0.0013 (ppm)	25.68	0.0013 (ppm)	9.0402
2/21/2018 23:06:44	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	26.37	0.0002 (ppm)	0.8376
2/21/2018 23:06:44	Continuing Calibration Blank	Cu (327.395 nm)	0.0005 (ppm)	7.28	0.0005 (ppm)	62.9038
2/21/2018 23:06:44	Continuing Calibration Blank	Fe (234.350 nm)	0.0022 (ppm)	9.33	0.0022 (ppm)	63.8679
2/21/2018 23:06:44	Continuing Calibration Blank	K (766.491 nm)	0.0381 (ppm)	22.75	0.0381 (ppm)	127.6508
2/21/2018 23:06:44	Continuing Calibration Blank	Mg (279.078 nm)	0.0139 (ppm)	7.22	0.0139 (ppm)	24.6870
2/21/2018 23:06:44	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	3.21	0.0004 (ppm)	144.8348
2/21/2018 23:06:44	Continuing Calibration Blank	Mo (202.032 nm)	0.0031 (ppm)	3.30	0.0031 (ppm)	41.5457
2/21/2018 23:06:44	Continuing Calibration Blank	Na (588.995 nm)	0.0147 (ppm)	7.18	0.0147 (ppm)	-3469.3374
2/21/2018 23:06:44	Continuing Calibration Blank	Ni (230.299 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-17.1287
2/21/2018 23:06:44	Continuing Calibration Blank	Pb (220.353 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	5.8019
2/21/2018 23:06:44	Continuing Calibration Blank	Sb (217.582 nm)	0.0032 (ppm)	23.58	0.0032 (ppm)	4.9257
2/21/2018 23:06:44	Continuing Calibration Blank	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-1.9984
2/21/2018 23:06:44	Continuing Calibration Blank	Sn (189.925 nm)	0.0034 (ppm)	32.77	0.0034 (ppm)	3.7934
2/21/2018 23:06:44	Continuing Calibration Blank	Sr (216.596 nm)	0.0016 (ppm)	14.39	0.0016 (ppm)	20.9978

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 23:06:44	Continuing Calibration Blank	Ti (336.122 nm)	0.0019 (ppm)	3.05	0.0019 (ppm)	-37.2874
2/21/2018 23:06:44	Continuing Calibration Blank	Ti (351.923 nm)	0.0023 (ppm)	33.58	0.0023 (ppm)	6.2227
2/21/2018 23:06:44	Continuing Calibration Blank	V (292.401 nm)	0.0013 (ppm)	8.83	0.0013 (ppm)	138.6341
2/21/2018 23:06:44	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.64	1.03 (Ratio)	1011470.21
2/21/2018 23:06:44	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.64	1.03 (Ratio)	1012270.07
2/21/2018 23:06:44	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	2.51	0.0005 (ppm)	-12.6637
2/21/2018 23:10:04	Contract Required Detection Limit	Ag (328.068 nm)	0.0095 (ppm)	0.33	0.0095 (ppm)	641.9734
2/21/2018 23:10:04	Contract Required Detection Limit	Al (394.401 nm)	0.1772 (ppm)	0.21	0.1772 (ppm)	2620.3345
2/21/2018 23:10:04	Contract Required Detection Limit	As (188.980 nm)	0.0218 (ppm)	8.18	0.0218 (ppm)	18.1318
2/21/2018 23:10:04	Contract Required Detection Limit	B (249.772 nm)	0.1945 (ppm)	0.42	0.1945 (ppm)	6160.9967
2/21/2018 23:10:04	Contract Required Detection Limit	Ba (230.424 nm)	0.2092 (ppm)	0.68	0.2092 (ppm)	7458.4369
2/21/2018 23:10:04	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.39	0.0049 (ppm)	7230.9342
2/21/2018 23:10:04	Contract Required Detection Limit	Ca (227.547 nm)	0.9246 (ppm)	2.66	0.9246 (ppm)	71.3127
2/21/2018 23:10:04	Contract Required Detection Limit	Cd (214.439 nm)	0.0098 (ppm)	1.20	0.0098 (ppm)	238.5572
2/21/2018 23:10:04	Contract Required Detection Limit	Co (230.786 nm)	0.0495 (ppm)	0.34	0.0495 (ppm)	541.0222
2/21/2018 23:10:04	Contract Required Detection Limit	Cr (267.716 nm)	0.0101 (ppm)	0.89	0.0101 (ppm)	509.0090
2/21/2018 23:10:04	Contract Required Detection Limit	Cu (327.395 nm)	0.0240 (ppm)	0.16	0.0240 (ppm)	1697.5669
2/21/2018 23:10:04	Contract Required Detection Limit	Fe (234.350 nm)	0.1031 (ppm)	0.22	0.1031 (ppm)	1231.2413
2/21/2018 23:10:04	Contract Required Detection Limit	K (766.491 nm)	0.9346 (ppm)	0.82	0.9346 (ppm)	3439.9459
2/21/2018 23:10:04	Contract Required Detection Limit	Mg (279.078 nm)	1.0074 (ppm)	0.32	1.0074 (ppm)	2142.1261
2/21/2018 23:10:04	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.45	0.0154 (ppm)	5117.6051
2/21/2018 23:10:04	Contract Required Detection Limit	Mo (202.032 nm)	0.0248 (ppm)	1.47	0.0248 (ppm)	280.5845
2/21/2018 23:10:04	Contract Required Detection Limit	Na (588.995 nm)	1.0206 (ppm)	0.37	1.0206 (ppm)	52419.6718
2/21/2018 23:10:04	Contract Required Detection Limit	Ni (230.299 nm)	0.0423 (ppm)	0.37	0.0423 (ppm)	281.6804
2/21/2018 23:10:04	Contract Required Detection Limit	Pb (220.353 nm)	0.0106 (ppm)	6.65	0.0106 (ppm)	29.9654
2/21/2018 23:10:04	Contract Required Detection Limit	Sb (217.582 nm)	0.0584 (ppm)	1.28	0.0584 (ppm)	94.7815
2/21/2018 23:10:04	Contract Required Detection Limit	Se (196.026 nm)	0.0090 (ppm)	19.46	0.0090 (ppm)	8.2650
2/21/2018 23:10:04	Contract Required Detection Limit	Sn (189.925 nm)	0.4927 (ppm)	0.74	0.4927 (ppm)	638.3525
2/21/2018 23:10:04	Contract Required Detection Limit	Sr (216.596 nm)	0.1012 (ppm)	1.29	0.1012 (ppm)	1481.1637
2/21/2018 23:10:04	Contract Required Detection Limit	Ti (336.122 nm)	0.0501 (ppm)	0.24	0.0501 (ppm)	10920.7511
2/21/2018 23:10:04	Contract Required Detection Limit	Ti (351.923 nm)	0.0187 (ppm)	4.07	0.0187 (ppm)	57.0719
2/21/2018 23:10:04	Contract Required Detection Limit	V (292.401 nm)	0.0481 (ppm)	0.47	0.0481 (ppm)	1963.8630
2/21/2018 23:10:04	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.33	1.03 (Ratio)	1014234.06
2/21/2018 23:10:04	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.33	1.03 (Ratio)	1015081.83
2/21/2018 23:10:04	Contract Required Detection Limit	Zn (213.857 nm)	0.0195 (ppm)	1.25	0.0195 (ppm)	593.7408
2/21/2018 23:13:25	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u (ppm)	77.19	-0.0002 (ppm)	-117.2768
2/21/2018 23:13:25	Interference Check Solution A	Al (394.401 nm)	265.0083 o (ppm)	0.14	265.0083 (ppm)	3785634.9081
2/21/2018 23:13:25	Interference Check Solution A	As (188.980 nm)	0.0029 (ppm)	78.35	0.0029 (ppm)	-0.4234
2/21/2018 23:13:25	Interference Check Solution A	B (249.772 nm)	0.0339 (ppm)	1.17	0.0339 (ppm)	1135.6437
2/21/2018 23:13:25	Interference Check Solution A	Ba (230.424 nm)	0.0006 (ppm)	23.32	0.0006 (ppm)	25.4685
2/21/2018 23:13:25	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	23.64	0.0000 (ppm)	-651.9995
2/21/2018 23:13:25	Interference Check Solution A	Ca (227.547 nm)	265.1478 o (ppm)	0.18	265.1478 (ppm)	18243.3048
2/21/2018 23:13:25	Interference Check Solution A	Cd (214.439 nm)	-0.0011 Ku (ppm)	5.68	-0.0011 (ppm)	-9.6131 K
2/21/2018 23:13:25	Interference Check Solution A	Co (230.786 nm)	-0.0016 u (ppm)	19.23	-0.0016 (ppm)	-22.9815
2/21/2018 23:13:25	Interference Check Solution A	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-7.5094
2/21/2018 23:13:25	Interference Check Solution A	Cu (327.395 nm)	0.0005 (ppm)	8.38	0.0005 (ppm)	62.1375
2/21/2018 23:13:25	Interference Check Solution A	Fe (234.350 nm)	91.4820 o (ppm)	0.51	91.4820 (ppm)	1058522.3269
2/21/2018 23:13:25	Interference Check Solution A	K (766.491 nm)	0.0056 u (ppm)	> 100.00	0.0056 (ppm)	7.5597
2/21/2018 23:13:25	Interference Check Solution A	Mg (279.078 nm)	259.2187 o (ppm)	0.46	259.2187 (ppm)	552455.9432
2/21/2018 23:13:25	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	2.22	0.0016 (ppm)	531.0931
2/21/2018 23:13:25	Interference Check Solution A	Mo (202.032 nm)	0.0008 (ppm)	20.53	0.0008 (ppm)	15.4328

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 23:13:25	Interference Check Solution A	Na (588.995 nm)	0.0045 (ppm)	20.03	0.0045 (ppm)	-4031.7001
2/21/2018 23:13:25	Interference Check Solution A	Ni (230.299 nm)	-0.0017 u (ppm)	26.64	-0.0017 (ppm)	-34.4266
2/21/2018 23:13:25	Interference Check Solution A	Pb (220.353 nm)	-0.0024 u (ppm)	14.09	-0.0024 (ppm)	-0.9571
2/21/2018 23:13:25	Interference Check Solution A	Sb (217.582 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.0979
2/21/2018 23:13:25	Interference Check Solution A	Se (196.026 nm)	0.0030 (ppm)	84.46	0.0030 (ppm)	2.2450
2/21/2018 23:13:25	Interference Check Solution A	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.4796
2/21/2018 23:13:25	Interference Check Solution A	Sr (216.596 nm)	0.0203 (ppm)	1.74	0.0203 (ppm)	295.5066
2/21/2018 23:13:25	Interference Check Solution A	Ti (336.122 nm)	0.0017 (ppm)	3.38	0.0017 (ppm)	-84.8233
2/21/2018 23:13:25	Interference Check Solution A	Tl (351.923 nm)	0.0039 (ppm)	48.27	0.0039 (ppm)	11.2650
2/21/2018 23:13:25	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	1.67	0.0035 (ppm)	224.3382 K
2/21/2018 23:13:25	Interference Check Solution A	Y (360.074 nm)	0.90 (Ratio)	0.61	0.90 (Ratio)	880412.79
2/21/2018 23:13:25	Interference Check Solution A	Y_R (360.074 nm)	0.90 (Ratio)	0.61	0.90 (Ratio)	881279.84
2/21/2018 23:13:25	Interference Check Solution A	Zn (213.857 nm)	0.0117 K (ppm)	0.60	0.0117 (ppm)	342.6983 K
2/21/2018 23:16:46	Interference Check Solution AB	Ag (328.068 nm)	0.2148 (ppm)	0.36	0.2148 (ppm)	16692.0854
2/21/2018 23:16:46	Interference Check Solution AB	Al (394.401 nm)	265.5070 o (ppm)	0.20	265.5070 (ppm)	3792757.3277
2/21/2018 23:16:46	Interference Check Solution AB	As (188.980 nm)	0.1012 (ppm)	5.44	0.1012 (ppm)	96.0863
2/21/2018 23:16:46	Interference Check Solution AB	B (249.772 nm)	0.0351 (ppm)	1.29	0.0351 (ppm)	1171.9154
2/21/2018 23:16:46	Interference Check Solution AB	Ba (230.424 nm)	0.5310 (ppm)	0.66	0.5310 (ppm)	18919.8450
2/21/2018 23:16:46	Interference Check Solution AB	Be (313.107 nm)	0.5082 (ppm)	0.44	0.5082 (ppm)	803112.5668
2/21/2018 23:16:46	Interference Check Solution AB	Ca (227.547 nm)	265.5668 o (ppm)	0.06	265.5668 (ppm)	18272.1228
2/21/2018 23:16:46	Interference Check Solution AB	Cd (214.439 nm)	0.9511 (ppm)	0.67	0.9511 (ppm)	21697.1602
2/21/2018 23:16:46	Interference Check Solution AB	Co (230.786 nm)	0.4864 (ppm)	0.51	0.4864 (ppm)	5365.8430
2/21/2018 23:16:46	Interference Check Solution AB	Cr (267.716 nm)	0.5088 (ppm)	0.58	0.5088 (ppm)	26123.9139
2/21/2018 23:16:46	Interference Check Solution AB	Cu (327.395 nm)	0.5328 (ppm)	0.06	0.5328 (ppm)	37082.1295
2/21/2018 23:16:46	Interference Check Solution AB	Fe (234.350 nm)	91.5442 o (ppm)	0.73	91.5442 (ppm)	1059242.5966
2/21/2018 23:16:46	Interference Check Solution AB	K (766.491 nm)	-0.0057 u (ppm)	9.62	-0.0057 (ppm)	-34.2345
2/21/2018 23:16:46	Interference Check Solution AB	Mg (279.078 nm)	260.1941 o (ppm)	0.69	260.1941 (ppm)	554534.7685
2/21/2018 23:16:46	Interference Check Solution AB	Mn (257.610 nm)	0.5018 (ppm)	0.45	0.5018 (ppm)	166254.1308
2/21/2018 23:16:46	Interference Check Solution AB	Mo (202.032 nm)	0.0004 (ppm)	85.21	0.0004 (ppm)	10.8418
2/21/2018 23:16:46	Interference Check Solution AB	Nb (588.995 nm)	0.0070 (ppm)	16.88	0.0070 (ppm)	-3892.6788
2/21/2018 23:16:46	Interference Check Solution AB	Ni (230.299 nm)	0.9653 (ppm)	0.57	0.9653 (ppm)	6906.5704
2/21/2018 23:16:46	Interference Check Solution AB	Pb (220.353 nm)	0.0467 (ppm)	4.26	0.0467 (ppm)	115.4093
2/21/2018 23:16:46	Interference Check Solution AB	Sb (217.582 nm)	0.6014 (ppm)	0.84	0.6014 (ppm)	979.5453
2/21/2018 23:16:46	Interference Check Solution AB	Se (196.026 nm)	0.0525 (ppm)	3.29	0.0525 (ppm)	52.0625
2/21/2018 23:16:46	Interference Check Solution AB	Sn (189.925 nm)	-0.0009 u (ppm)	62.11	-0.0009 (ppm)	-1.7237
2/21/2018 23:16:46	Interference Check Solution AB	Sr (216.596 nm)	0.0209 (ppm)	6.27	0.0209 (ppm)	305.1410
2/21/2018 23:16:46	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	1.59	0.0016 (ppm)	-109.5095
2/21/2018 23:16:46	Interference Check Solution AB	Tl (351.923 nm)	0.1183 (ppm)	2.73	0.1183 (ppm)	365.6072
2/21/2018 23:16:46	Interference Check Solution AB	V (292.401 nm)	0.5026 (ppm)	0.42	0.5026 (ppm)	19666.6574
2/21/2018 23:16:46	Interference Check Solution AB	Y (360.074 nm)	0.90 (Ratio)	0.45	0.90 (Ratio)	882601.94
2/21/2018 23:16:46	Interference Check Solution AB	Y_R (360.074 nm)	0.90 (Ratio)	0.45	0.90 (Ratio)	883450.31
2/21/2018 23:16:46	Interference Check Solution AB	Zn (213.857 nm)	1.0190 (ppm)	0.57	1.0190 (ppm)	32376.9419
2/21/2018 23:20:07	Continuing Calibration Verification	Ag (328.068 nm)	0.4867 (ppm)	0.20	0.4867 (ppm)	37956.1743
2/21/2018 23:20:07	Continuing Calibration Verification	Al (394.401 nm)	9.5169 (ppm)	0.14	9.5169 (ppm)	136034.1718
2/21/2018 23:20:07	Continuing Calibration Verification	As (188.980 nm)	0.9401 (ppm)	1.02	0.9401 (ppm)	919.9531
2/21/2018 23:20:07	Continuing Calibration Verification	B (249.772 nm)	2.4114 (ppm)	0.26	2.4114 (ppm)	75557.8294
2/21/2018 23:20:07	Continuing Calibration Verification	Ba (230.424 nm)	10.3262 (ppm)	0.67	10.3262 (ppm)	367845.6624
2/21/2018 23:20:07	Continuing Calibration Verification	Be (313.107 nm)	0.2526 (ppm)	0.23	0.2526 (ppm)	398872.6925
2/21/2018 23:20:07	Continuing Calibration Verification	Ca (227.547 nm)	23.6010 (ppm)	0.13	23.6010 (ppm)	1630.8828
2/21/2018 23:20:07	Continuing Calibration Verification	Cd (214.439 nm)	0.4910 (ppm)	0.66	0.4910 (ppm)	11208.3690
2/21/2018 23:20:07	Continuing Calibration Verification	Co (230.786 nm)	2.5259 (ppm)	0.38	2.5259 (ppm)	27887.7103

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/21/2018 23:20:07	Continuing Calibration Verification	Cr (267.716 nm)	0.5216 (ppm)	0.38	0.5216 (ppm)	26781.4729
2/21/2018 23:20:07	Continuing Calibration Verification	Cu (327.395 nm)	1.2001 (ppm)	0.19	1.2001 (ppm)	83487.5587
2/21/2018 23:20:07	Continuing Calibration Verification	Fe (234.350 nm)	5.0304 (ppm)	0.35	5.0304 (ppm)	58242.7001
2/21/2018 23:20:07	Continuing Calibration Verification	K (766.491 nm)	24.5426 (ppm)	0.40	24.5426 (ppm)	90657.0232
2/21/2018 23:20:07	Continuing Calibration Verification	Mg (279.078 nm)	24.7993 (ppm)	0.40	24.7993 (ppm)	52848.6110
2/21/2018 23:20:07	Continuing Calibration Verification	Mn (257.610 nm)	0.7639 (ppm)	0.37	0.7639 (ppm)	253077.9986
2/21/2018 23:20:07	Continuing Calibration Verification	Mo (202.032 nm)	2.4121 (ppm)	0.46	2.4121 (ppm)	26684.0197
2/21/2018 23:20:07	Continuing Calibration Verification	Na (588.995 nm)	24.7736 (ppm)	0.48	24.7736 (ppm)	1372060.3204
2/21/2018 23:20:07	Continuing Calibration Verification	Ni (230.299 nm)	2.0423 (ppm)	0.37	2.0423 (ppm)	14636.6713
2/21/2018 23:20:07	Continuing Calibration Verification	Pb (220.353 nm)	0.4903 (ppm)	0.24	0.4903 (ppm)	1166.0057
2/21/2018 23:20:07	Continuing Calibration Verification	Sb (217.582 nm)	4.7164 (ppm)	0.11	4.7164 (ppm)	7684.2510
2/21/2018 23:20:07	Continuing Calibration Verification	Se (196.026 nm)	0.4713 (ppm)	0.71	0.4713 (ppm)	474.1372
2/21/2018 23:20:07	Continuing Calibration Verification	Sn (189.925 nm)	4.9155 (ppm)	0.46	4.9155 (ppm)	6373.3469
2/21/2018 23:20:07	Continuing Calibration Verification	Sr (216.596 nm)	2.5302 (ppm)	0.69	2.5302 (ppm)	37093.8869
2/21/2018 23:20:07	Continuing Calibration Verification	Ti (336.122 nm)	2.4833 (ppm)	0.11	2.4833 (ppm)	564176.1152
2/21/2018 23:20:07	Continuing Calibration Verification	Ti (351.923 nm)	0.9809 (ppm)	0.03	0.9809 (ppm)	3036.8888
2/21/2018 23:20:07	Continuing Calibration Verification	V (292.401 nm)	2.4879 (ppm)	0.36	2.4879 (ppm)	96997.1592
2/21/2018 23:20:07	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.60	0.98 (Ratio)	962302.46
2/21/2018 23:20:07	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.60	0.98 (Ratio)	963146.78
2/21/2018 23:20:07	Continuing Calibration Verification	Zn (213.857 nm)	0.9808 (ppm)	0.46	0.9808 (ppm)	31161.3108
2/21/2018 23:23:28	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	80.53	0.0001 (ppm)	-98.0693
2/21/2018 23:23:28	Continuing Calibration Blank	Al (394.401 nm)	0.0068 (ppm)	1.99	0.0068 (ppm)	186.4882
2/21/2018 23:23:28	Continuing Calibration Blank	As (188.980 nm)	0.0020 (ppm)	95.08	0.0020 (ppm)	-1.3714
2/21/2018 23:23:28	Continuing Calibration Blank	B (249.772 nm)	0.0027 (ppm)	7.74	0.0027 (ppm)	160.0021
2/21/2018 23:23:28	Continuing Calibration Blank	Ba (230.424 nm)	0.0060 (ppm)	0.34	0.0060 (ppm)	219.6436
2/21/2018 23:23:28	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	4.78	0.0002 (ppm)	-331.4090
2/21/2018 23:23:28	Continuing Calibration Blank	Ca (227.547 nm)	0.0051 u (ppm)	> 100.00	0.0051 (ppm)	8.0726
2/21/2018 23:23:28	Continuing Calibration Blank	Cd (214.439 nm)	0.0004 (ppm)	7.81	0.0004 (ppm)	23.9445
2/21/2018 23:23:28	Continuing Calibration Blank	Co (230.786 nm)	0.0015 (ppm)	33.73	0.0015 (ppm)	10.7947
2/21/2018 23:23:28	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	19.63	0.0002 (ppm)	1.2545
2/21/2018 23:23:28	Continuing Calibration Blank	Cu (327.395 nm)	0.0005 (ppm)	20.50	0.0005 (ppm)	62.2533
2/21/2018 23:23:28	Continuing Calibration Blank	Fe (234.350 nm)	0.0031 (ppm)	4.70	0.0031 (ppm)	73.9089
2/21/2018 23:23:28	Continuing Calibration Blank	K (766.491 nm)	0.0357 (ppm)	26.32	0.0357 (ppm)	118.8338
2/21/2018 23:23:28	Continuing Calibration Blank	Mg (279.078 nm)	0.0149 (ppm)	2.81	0.0149 (ppm)	26.6852
2/21/2018 23:23:28	Continuing Calibration Blank	Mn (257.610 nm)	0.0005 (ppm)	2.74	0.0005 (ppm)	150.9417
2/21/2018 23:23:28	Continuing Calibration Blank	Mo (202.032 nm)	0.0034 (ppm)	16.75	0.0034 (ppm)	44.2831
2/21/2018 23:23:28	Continuing Calibration Blank	Na (588.995 nm)	0.0141 (ppm)	11.70	0.0141 (ppm)	-3502.1800
2/21/2018 23:23:28	Continuing Calibration Blank	Ni (230.299 nm)	0.0009 (ppm)	80.87	0.0009 (ppm)	-15.8183
2/21/2018 23:23:28	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.3590
2/21/2018 23:23:28	Continuing Calibration Blank	Sb (217.582 nm)	0.0035 (ppm)	56.03	0.0035 (ppm)	5.3706
2/21/2018 23:23:28	Continuing Calibration Blank	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	0.2825
2/21/2018 23:23:28	Continuing Calibration Blank	Sn (189.925 nm)	0.0042 (ppm)	20.58	0.0042 (ppm)	4.8904
2/21/2018 23:23:28	Continuing Calibration Blank	Sr (216.596 nm)	0.0014 (ppm)	1.07	0.0014 (ppm)	18.1058
2/21/2018 23:23:28	Continuing Calibration Blank	Ti (336.122 nm)	0.0020 (ppm)	4.74	0.0020 (ppm)	-18.0395
2/21/2018 23:23:28	Continuing Calibration Blank	Ti (351.923 nm)	0.0032 (ppm)	41.91	0.0032 (ppm)	9.1657
2/21/2018 23:23:28	Continuing Calibration Blank	V (292.401 nm)	0.0014 (ppm)	11.05	0.0014 (ppm)	142.8413
2/21/2018 23:23:28	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	1.32	1.03 (Ratio)	1014705.59
2/21/2018 23:23:28	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	1.32	1.03 (Ratio)	1015465.32
2/21/2018 23:23:28	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	10.70	0.0005 (ppm)	-13.0093

AQ (328.068 nm)  
Intensity = 78194.0609 \* Concentration - 102.3718  
Correlation coefficient: 0.99999

As (188.980 nm)

Intensity = 982.1437 \* Concentration - 3.3128  
Correlation coefficient: 1.00000

B (249.772 nm)

Intensity = 31303.4934 \* Concentration + 73.9969  
Correlation coefficient: 0.99999

Ba (230.424 nm)

Intensity = 35622.1681 \* Concentration + 5.2955  
Correlation coefficient: 0.99992

Be (313.107 nm)

Intensity = 1581343.2394 \* Concentration - 582.2568  
Correlation coefficient: 1.00000

Cd (214.439 nm)

Intensity = 22796.6993 \* Concentration + 15.5915  
Correlation coefficient: 0.99999

Co (230.786 nm)

Intensity = 11042.9090 \* Concentration - 5.4653  
Correlation coefficient: 0.99999

Cr (267.716 nm)

Intensity = 51367.4097 \* Concentration - 9.6174  
Correlation coefficient: 1.00000

Cu (327.395 nm)

Intensity = 69546.3886 \* Concentration + 26.9832  
Correlation coefficient: 0.99999

K (766.491 nm)

Intensity = 3694.3989 \* Concentration - 13.0114  
Correlation coefficient: 0.99996

Mn (257.610 nm)

Intensity = 331297.5805 \* Concentration + 0.6555  
Correlation coefficient: 0.99999

Mo (202.032 nm)

Intensity = 11059.5889 \* Concentration + 6.7946  
Correlation coefficient: 1.00000

Na (588.995 nm)

Intensity = 55556.7668 \* Concentration - 4283.4557  
Correlation coefficient: 1.00000

Ni (230.299 nm)

Intensity = 7177.4341 \* Concentration - 22.0810  
Correlation coefficient: 0.99998

Pb (220.353 nm)

Intensity = 2368.4107 \* Concentration + 4.7826  
Correlation coefficient: 0.99999

Sb (217.582 nm)

Intensity = 1629.3329 \* Concentration - 0.3214  
Correlation coefficient: 1.00000

Se (196.026 nm)

Intensity = 1007.8205 \* Concentration - 0.8168  
Correlation coefficient: 0.99997

Sn (189.925 nm)  
Intensity = 1296.7034 \* Concentration - 0.5880  
Correlation coefficient: 0.99999

Ti (336.122 nm)  
Intensity = 227372.9337 \* Concentration - 466.5889  
Correlation coefficient: 1.00000

Ti (351.923 nm)  
Intensity = 3096.8075 \* Concentration - 0.8207  
Correlation coefficient: 0.99997

V (292.401 nm)  
Intensity = 38952.2171 \* Concentration + 88.4740  
Correlation coefficient: 1.00000

Zn (213.857 nm)  
Intensity = 31799.8044 \* Concentration - 27.9380  
Correlation coefficient: 1.00000

Al (394.401 nm)  
Intensity = 14284.6278 \* Concentration + 89.3490  
Correlation coefficient: 0.99987

Ca (227.547 nm)  
Intensity = 68.7752 \* Concentration + 7.7226  
Correlation coefficient: 0.99993

Fe (234.350 nm)  
Intensity = 11570.4103 \* Concentration + 38.3754  
Correlation coefficient: 0.99998

Mg (279.078 nm)  
Intensity = 2131.2539 \* Concentration - 4.9715  
Correlation coefficient: 1.00000

Sr (216.596 nm)  
Intensity = 14661.4188 \* Concentration - 1.9393  
Correlation coefficient: 0.99999

# Preparation Information Benchsheet

Prep Run#: 308602  
Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
Prep Method: EPA 3050B

Status: Prepped  
Prep Date/Time: 2/20/18 10:23 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801499-01	MB		1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				100.00mL	White-Coarse/Colorless-Clear		HB: 7 Well: B5 Temperature: 94.0C/95.0C Correction Factor: 0.0C Corr. Temp: 94.0C/95.0C
2	RQ1801499-02	LCS		1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				100.00mL	White-Coarse/Colorless-Clear	0.1000 mL/180701; 0.2000 mL/180703; 1.0000 mL/185996; 0.5000 mL/185685; 1.0000 mL/185995	Digest on HB: 11:05 Digest off HB: 13:50
3	R1801334-001	TB-01 (3.0)	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
4	R1801334-002	TB-02 (8.0)	.01	1.0500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
5	R1801334-003	TB-04 (2.5)	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
6	R1801334-007	TB-14 (7.0)	.02	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
7	R1801334-014	TB-24 (2.5)	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
8	RQ1801499-03	R1801334-014 MS	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear	0.1000 mL/180701; 1.0000 mL/185995; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185996	
9	RQ1801499-04	R1801334-014 DMS	.01	1.0500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear	1.0000 mL/185996; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185995; 0.1000 mL/180701	
10	R1801339-004	DW Sludge	.04	1.0400g	6010C/As T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				100.00mL	Brown-Medium/Colorless-Clear		
11	R1801384-005	TB-4 (2.5-3.5)	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Brown-Clear		
12	R1801384-009	TB-6 (5-6)	.01	1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
13	R1801384-015	TB-10 (7-8)	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	1007025E
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	1007025E



# Preparation Information Benchsheet

Prep Run#: 308602  
Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
Prep Method: EPA 3050B

Status: Prepped  
Prep Date/Time: 2/20/18 10:23 AM

## Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	1:1 Nitric Acid Metals Grade	M7600003T (185923)	Hot Block Cups	50 mL Lot 1707186 (185261)
Filter Paper No. 415 12.5 cm	184140 (184140)	Nitric Acid Metals Grade HNO3	M7600003T (185922)	Thermometer	293 (12952)

## Preparation Steps

Step: Digestion  
Started: 2/20/18 10:23  
Finished: 2/20/18 15:20  
By: NMANSEN  
Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol A</u>	Date: <u>2/20/18</u>	<u>Extracts Examined</u> Yes No
Received By: <u>RAOIT</u>	Date: <u>2/20/18</u>	

# Preparation Information Benchsheet

Prep Run#: 308554  
 Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
 Prep Method: EPA 3005A/3010A

Status: Prepped  
 Prep Date/Time: 2/19/18 01:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801482-01	MB		50mL	6010C/As T, Ca T, Cd T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		HB: 7 Well: A6 Temperature: 93.0C Correction Factor: 0.0C Corr. Temp: 93.0C
2	RQ1801482-02	LCS		50mL	6010C/As T, Ca T, Cd T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185995; 0.1000 mL/180703; 0.5000 mL/185996; 0.2500 mL/185685	pH Started: 13:43 Digest on HB 14:38 HB Shutoff: 00:38 2/20/18
3	R1801227-016	MW-18D	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
4	R1801227-017	MW-18S	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
5	R1801227-018	MW-8SR	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
6	R1801227-019	EB-01	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
7	R1801227-020	MW-20S	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
8	RQ1801482-07	R1801227-020 DUP	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
9	R1801227-021	MW-21D	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
10	R1801227-022	MW-26S-R	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
11	R1801227-023	SW-5	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
12	R1801227-024	MW-23S-R	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
13	R1801227-025	Dup-02	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
14	R1801227-026	MW-23D-R	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
15	R1801227-027	PZ-13	.03	50mL	6010C/As T, Cd T, Cr T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
16	R1801335-001	MWTBR - 0218	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R1801335-002	MWUBR - 0218	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1801335-003	MWVBR - 0218	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	RQ1801482-05	R1801335-003 MS	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185996; 0.1000 mL/180703; 0.0500 mL/180701; 0.2500 mL/185685; 0.5000 mL/185995	

# Preparation Information Benchsheet

Prep Run#: 308554

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 2/19/18 01:33 PM

20	RQ1801482-06	R1801335-003 DMS	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear	0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185996; 0.5000 mL/185995; 0.0500 mL/180701
21	R1801335-004	MWV - 0218	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear	
22	R1801335-005	MWOBR - 0218	.03	50mL	6010C/As T, Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear	
23	R1801385-001	IQ18 Effluent	.02	50mL	6010C/Pb T	<2		50.00mL	Colorless-Clear	

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	10070256
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	10070256

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1707186 (185261) Nitric Acid Metals Grade HNO3 M7600003T (185922)  
 Thermometer 293 (12952)

### Preparation Steps

Step: Digestion  
 Started: 2/19/18 13:33  
 Finished: 2/20/18 13:42  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: Nical Date: 2/20/18 Extracts Examined  
 Received By: RAOI Date: 2/20/18 Yes No

# Preparation Information Benchsheet

Prep Run#: 308555

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 2/19/18 01:38 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801483-01	MB		50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: A6 Temperature: 92.0C Correction Factor: 0.0C Corr. Temp: 92.0C
2	RQ1801483-02	LCS		50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		pH Started: 13:43 Digest on HB: 14:36 HB Shutoff: 00:36 2/20/18
3	R1801224-001	1802080944B 300-A-166	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
4	R1801224-006	1802081036X ST-5-655	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
5	R1801311-001	SB915-0426-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		Tier IV
6	R1801311-002	SB915-0426-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
7	R1801311-003	SB915-0426-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801311-004	SB915-0426-04,05,06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	RQ1801483-03	R1801311-004 MS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	RQ1801483-04	R1801311-004 DMS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R1801311-005	SB915-0426-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
12	R1801311-006	SB915-0426-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
13	R1801311-007	SB915-0426-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801311-008	SB915-0426-10	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Tan-Clear/Colorless-Clear		
15	R1801311-009	SB915-0426-11	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
16	R1801311-010	SB915-0426-12	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
17	R1801311-011	SB915-0427-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1801311-012	SB915-0427-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	R1801311-013	SB915-0427-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 308555

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 2/19/18 01:38 PM

20	R1801311-014	SB915-0427-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
21	R1801311-015	SB915-0427-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Tan-Clear/Yellow-Clear		
22	R1801311-016	SB915-0427-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
23	R1801311-017	SB915-0427-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		

### Preparation Materials

1:1 HCl Metals Grade      M7600004D (187996)      Hot Block Cups      50 mL Lot 1707186 (185261)      Nitric Acid Metals Grade HNO3      M7600003T (185922)  
 Thermometer      294 (12954)

### Preparation Steps

Step: Digestion  
 Started: 2/19/18 13:38  
 Finished: 2/20/18 13:45  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: *Nicol A*      Date: 2/20/18      Extracts Examined  
 Received By: RAOI      Date: 2/20/18      Yes      No

OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)  
 (ICV FOR ILM5.3 IS A 1/2 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600003A	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600003B	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600003C	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600002R	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600002Q	1000	1.00		5.00
	B	M7600003I	1000	0.500		2.50
	MO	M7600003J	1000	0.500		2.50
	TI	M7600003K	1000	0.500		2.50
	SR	M7600002S	1000	0.500		2.50
	P	-	1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
NM 1/29/18	A	M7600003T 10%	M7600004D 5%	M34
NM 1/30/18	B	M7600003T 2%	M7600004D 5%	M34
NM 1/31/18	C	M7600003T 10%	M7600004D 5%	M34
NM 2/2/18	D	M7600003T 2%	M7600004D 5%	M34
NM 2/6/18	E	M7600003T 10%	M7600004D 5%	M34
NM 2/6/18	F	M7600003T 2%	M7600004D 5%	M34
NM 2/7/18	G	M7600003T 10%	M7600004D 5%	M34
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	M34
NM 2/12/18	I	M7600003T 2%	M7600004D 5%	M34
NM 2/13/18	J	M7600003T 10%	M7600004D 5%	M34
NM 2/14/18	K	M7600003T 10%	M7600004D 5%	M34
CK 2/15/18	L	M7600003T 2%	M7600004D 5%	M34
CK 2/15/18	M	M7600003T 10%	M7600004D 5%	M34
CK 2/16/18	N	M7600003T 10%	M7600004D 5%	M34
NM 2/19/18	O	M7600003T 2%	M7600004D 5%	M34
NM 2/20/18	P	M7600003T 10%	M7600004D 5%	M34
NM 2/21/18	Q	M7600003T 10%	M7600004D 5%	M34
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	M7600003F	10000	2.0	2000	10.0	5% HCl 2% HNO3	NM 11/9/17	A	M7600002W	M7600003D	5/9/18	M35
					10.0		NM 11/27/17	B	M7600002W	M7600003D	5/27/18	M35
CS	M7600003E	10000	2.0		10.0		NM 11/28/17	C	M7600002W	M7600003D	5/28/18	M35
							NM 11/30/17	D	M7600003T	M7600003D	5/30/18	M35
							NM 12/8/17	E	M7600003T	M7600003D	6/8/18	M35
							NM 12/15/17	F	M7600003T	M7600003D	6/15/18	M35
							NM 12/28/17	G	M7600003T	M7600003D	6/28/18	M35
							NM 1/15/18	H	M7600003T	M7600003D	7/15/18	M34
							NM 1/29/18	I	M7600003T	M7600004D	7/29/18	M34
							NM 2/13/18	J	M7600003T	M7600004D	8/13/18	M34
							NM 2/20/18	K	M7600003T	M7600004D	8/20/18	M34
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. 1 Int.	AL	M7620002D	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
	0.500					
Cal Std. 1	CA	M7080012EE	5000	0.100		0.500
	K		5000		BELOW	
	MG		5000		0.500	
	NA		5000		0.500	
Single Element	BA	M7080014BB	1000	0.020		0.020
	CU		1000		0.010	
	K		10000		0.150	
	MN		1000		0.010	
	MO		1000		0.025	
	SB		1000		0.010	
	TL		1000		0.010	
	ZN		1000		0.010	
	P		1000		0.100	

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 2/12/18	A	M76000003T 2%	M76000004D 5%	2/19/18	M34 M25
NM 2/12/18	B	M76000003T 10%	M76000004D 5%	2/19/18	M34 M25
NM 2/20/18	C	M76000003T 2%	M76000004D 5%	2/27/18	M34 M25
NM 2/20/18	D	M76000003T 10%	M76000004D 5%	2/27/18	M34 M25
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				



**OPTIMA 3,4,5,6 CALIBRATION STANDARD #2**  
 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M7600001J	1000	0.100	1000	0.100
	AS	M7080011X	1000	0.010		0.010
	B	M7080012Z	1000	0.200		0.200
	BE	M7080012V (1/10)	100	0.030		0.003
	CA	M7080014Y	10000	0.100		1.00
	CD	M7080010N (1/10)	100	0.050		0.005
	CU	M7600001A	1000	0.020		0.020
	K	M7080014AA	10000	0.200		2.00
	MG	M7600002H	10000	0.100		1.00
	NA	M7080014Z	10000	0.100		1.00
	PB	M7080011S	1000	0.050		0.050
	SB	M7600001G	1000	0.060		0.060
	SE	M7080014F	1000	0.010		0.010
	SN	M7600003U	1000	0.500		0.500

Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 1/12/18	A	M76000003T 2%	M76000003D 5%	1/19/18	M34 M25
NM 1/12/18	B	M76000003T 10%	M76000003D 5%	1/19/18	M34 M25
NM 1/23/18	C	M76000003T 2%	M76000003D 5%	1/30/18	M34 M25
NM 1/23/18	D	M76000003T 10%	M76000003D 5%	1/30/18	M34 M25
NM 1/31/18	E	M76000003T 2%	M76000003D 5%	2/7/18	M34 M25
NM 1/31/18	F	M76000003T 10%	M76000003D 5%	2/7/18	M34 M25
NM 2/8/18	G	M76000003T 2%	M76000004D 5%	2/15/18	M34 M25
NM 2/8/18	H	M76000003T 10%	M76000004D 5%	2/15/18	M34 M25
NM 2/19/18	I	M76000003T 2%	M76000004D 5%	2/26/18	M34 M25
NM 2/19/18	J	M76000003T 10%	M76000004D 5%	2/26/18	M34 M25
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)  
 (CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)  
 (CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M76000021	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M7600004B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	M7600003G	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M7080014Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M7080014A	10000	1.00		50.0
	NA	M7080014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600003U	1000	2.00		10.0
	B	M7080012Z	1000	1.00		5.00
	MO	M7600002V	1000	1.00		5.00
	TI	M7080013R	1000	1.00		5.00
	SR	M7080014G	1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot#/Concentration	Hydrochloric Acid Lot #/Concentration	Expiration Date	Pipet ID
NM 1/4/18	A	M7600003T 2%	M7600003D 5%	1/11/18	M34
NM 1/4/18	B	M7600003T 10%	M7600003D 5%	1/11/18	M34
NM 1/2/18	C	M7600003T 2%	M7600003D 5%	1/19/18	M34
NM 1/2/18	D	M7600003T 10%	M7600003D 5%	1/19/18	M34
NM 1/23/18	E	M7600003T 2%	M7600003D 5%	1/30/18	M34
NM 1/23/18	F	M7600003T 10%	M7600003D 5%	1/30/18	M34
NM 1/30/18	G	M7600003T 2%	M7600004D 5%	2/6/18	M34
NM 1/30/18	H	M7600003T 10%	M7600004D 5%	2/6/18	M34
NM 2/1/18	I	M7600003T 2%	M7600004D 5%	2/14/18	M34
NM 2/1/18	J	M7600003T 10%	M7600004D 5%	2/14/18	M34
CK 2/15/18	K	M7600003T 2%	M7600004D 5%	2/22/18	M34
CK 2/15/18	L	M7600003T 10%	M7600004D 5%	2/22/18	M34
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
	Cal Std 3	AL	M7600001R	2000	2.00	
	BA		2000			40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	M7600003G	100	4.00		4.00
	CD, SE		50			2.00
	PB		50			Below
Single Metals	B	M7080012Z	1000	1.00		10.0
	MO	M7600002V	1000	1.00		10.0
	TI	M7080013R	1000	1.00		10.0
	SR	M7080014G	1000	1.00		10.0
	CA	M70800148Y	10000	2.50		250
	MG	M7600002H	10000	5.00		500
	NA	M7080014Z	10000	1.50		150
	CR	M7080012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M7600002G	10000	4.60		500
	MN	M708001R	1000	0.700		10.00
	PB	M7080011S	1000	0.800		10.0
	K	M7080014AA	10000	1.50		150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 1/11/18	A	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	B	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/26/18	C	M7600003T 2%	M7600004D 5%	2/9/18	M34
NM 1/26/18	D	M7600003T 10%	M7600004D 5%	2/9/18	M34
NM 2/12/18	E	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	F	M7600003T 10%	M7600004D 5%	2/26/18	M34
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

OPTIMA 3/4/5/6 HLCCV3

Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M7080014Y	10000	2.00	100	200
	CU	M7600001A	1000	0.40		4.00
	FE	M7600001C	10000	0.40		40.0
	K	M7080014AA	10000	1.00		100
	TL	M7600001N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 11/8/17	A	M7600002W 2%	M7600003D 5%	11/22/17	M35
NM 11/8/17	B	M7600002W 10%	M7600003D 5%	11/22/17	M35
NM 11/22/17	C	M7600002W 2%	M7600003D 5%	12/6/17	M35
NM 11/22/17	D	M7600002W 10%	M7600003D 5%	12/6/17	M35
NM 12/7/17	E	M7600003T 2%	M7600003D 5%	12/21/17	M35
NM 12/7/17	F	M7600003T 10%	M7600003D 5%	12/21/17	M35
NM 12/21/17	G	M7600003T 2%	M7600003D 5%	1/10/18	M35
NM 12/27/17	H	M7600003T 10%	M7600003D 5%	1/10/18	M35
NM 1/11/18	I	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	J	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/25/18	K	M7600003T 2%	M7600003D <sup>40</sup> 5%	2/9/18	M34
NM 1/25/18	L	M7600003T 10%	M7600003D <sup>40</sup> 5%	2/9/18	M34
NM 2/12/18	M	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	N	M7600003T 10%	M7600004D 5%	2/26/18	M34
	O				
	P				
	Q				
	R				
	S				

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7080013X	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M7600002L	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M7600001R	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M7600001I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M7080012Z	1000	0.200		0.200
	MO	M7600002V	1000	0.025		0.0250
	SN	M7600002T	1000	0.500		0.500
	TI	M7080013R	1000	0.050		0.0500
	SB	M7600001G	1000	0.060		0.0600
	SR	M7080014G	1000	0.100		0.100
	P	-	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/22/17	A	M7600002W 2%	M7600003D 5%	5/22/18	M25/M35
NM 11/22/17	B	M7600002W 10%	M7600003D 5%	5/22/18	M25/M35
NM 1/29/18	C	M7600002W 10%	M7600008D 5%	7/29/18	M25/M35
	D		4D		
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

NM 1/29/18

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M7600002W 10%	M7600002I 5%	4/13/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

✓ NM 11/30/17

OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M7080013Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/9/17	A	M7600002W 10%	M7600003D 5%	5/9/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
NM 7/29/18	D	M7600003T 2%	M7600004D 5%	7/29/18	Volumetric
NM 7/29/18	E	M7600003T 10%	M7600004D 5%	7/29/18	Volumetric
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

N/A 7/29/18





# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581213 Method/Testcode: 6010C/As T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801499-01	Arsenic, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.3	1.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Barium, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.08	2.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Cadmium, Total	MB		Soil	0.00 ppm	1.0 g	0.50 mg/Kg U	1	0.02	0.50			2/21/18 19:05:34	N	IV
2Q1801499-01	Chromium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.10	1.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Copper, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.5	2.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Lead, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.2	5.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Molybdenum, Total	MB		Soil	0.00 ppm	1.0 g	2.5 mg/Kg U	1	0.7	2.5			2/21/18 19:05:34	N	IV
2Q1801499-01	Nickel, Total	MB		Soil	0.00 ppm	1.0 g	4.0 mg/Kg U	1	0.7	4.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Potassium, Total	MB		Soil	0.01 ppm	1.0 g	200 mg/Kg U	1	20	200			2/21/18 19:05:34	N	IV
2Q1801499-01	Selenium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.4	1.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Silver, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.07	1.0			2/21/18 19:05:34	N	IV
2Q1801499-01	Zinc, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.4	2.0			2/21/18 19:05:34	N	IV
2Q1801499-02	Arsenic, Total	LCS		Soil	0.04 ppm	1.0 g	3.73 mg/Kg	1	0.3	1.0	93		2/21/18 19:08:55	N	IV
2Q1801499-02	Barium, Total	LCS		Soil	2.05 ppm	1.0 g	205 mg/Kg	1	0.08	2.0	102		2/21/18 19:08:55	N	IV
2Q1801499-02	Cadmium, Total	LCS		Soil	0.05 ppm	1.0 g	4.92 mg/Kg	1	0.02	0.50	98		2/21/18 19:08:55	N	IV
2Q1801499-02	Chromium, Total	LCS		Soil	0.20 ppm	1.0 g	20.1 mg/Kg	1	0.10	1.0	100		2/21/18 19:08:55	N	IV
2Q1801499-02	Copper, Total	LCS		Soil	0.23 ppm	1.0 g	23.4 mg/Kg	1	0.5	2.0	94		2/21/18 19:08:55	N	IV
2Q1801499-02	Lead, Total	LCS		Soil	0.48 ppm	1.0 g	48.3 mg/Kg	1	0.2	5.0	97		2/21/18 19:08:55	N	IV
2Q1801499-02	Molybdenum, Total	LCS		Soil	0.48 ppm	1.0 g	48.4 mg/Kg	1	0.7	2.5	97		2/21/18 19:08:55	N	IV
2Q1801499-02	Nickel, Total	LCS		Soil	0.48 ppm	1.0 g	48.3 mg/Kg	1	0.7	4.0	97		2/21/18 19:08:55	N	IV
2Q1801499-02	Potassium, Total	LCS		Soil	17.83 ppm	1.0 g	1780 mg/Kg	1	20	200	89		2/21/18 19:08:55	N	IV
2Q1801499-02	Selenium, Total	LCS		Soil	0.89 ppm	1.0 g	89.0 mg/Kg	1	0.4	1.0	88		2/21/18 19:08:55	N	IV
2Q1801499-02	Silver, Total	LCS		Soil	0.05 ppm	1.0 g	4.62 mg/Kg	1	0.07	1.0	92		2/21/18 19:08:55	N	IV
2Q1801499-02	Zinc, Total	LCS		Soil	0.46 ppm	1.0 g	46.2 mg/Kg	1	0.4	2.0	92		2/21/18 19:08:55	N	IV
21801334-001	Arsenic, Total	N/A		Soil	0.05 ppm	1.0100 g	6.5 mg/Kg	1	0.4	1.2			2/21/18 19:12:17	N	IV
21801334-001	Barium, Total	N/A		Soil	0.61 ppm	1.0100 g	73.4 mg/Kg	1	0.09	2.4			2/21/18 19:12:17	N	IV
21801334-001	Cadmium, Total	N/A		Soil	0.01 ppm	1.0100 g	0.91 mg/Kg	1	0.03	0.60			2/21/18 19:12:17	N	IV
21801334-001	Chromium, Total	N/A		Soil	0.10 ppm	1.0100 g	11.7 mg/Kg	1	0.2	1.2			2/21/18 19:12:17	N	IV
21801334-001	Lead, Total	N/A		Soil	0.98 ppm	1.0100 g	117 mg/Kg	1	0.3	6.0			2/21/18 19:12:17	N	IV
21801334-001	Selenium, Total	N/A		Soil	0.01 ppm	1.0100 g	1.7 mg/Kg	1	0.5	1.2			2/21/18 19:12:17	N	IV
21801334-001	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	0.5 mg/Kg J	1	0.08	1.2			2/21/18 19:12:17	N	IV
21801334-002	Arsenic, Total	N/A		Soil	0.06 ppm	1.0500 g	9.1 mg/Kg	1	0.5	1.5			2/21/18 19:15:38	N	IV
21801334-002	Barium, Total	N/A		Soil	0.77 ppm	1.0500 g	115 mg/Kg	1	0.2	3.0			2/21/18 19:15:38	N	IV
21801334-002	Cadmium, Total	N/A		Soil	0.00 ppm	1.0500 g	0.36 mg/Kg J	1	0.03	0.75			2/21/18 19:15:38	N	IV
21801334-002	Chromium, Total	N/A		Soil	0.07 ppm	1.0500 g	11.0 mg/Kg	1	0.2	1.5			2/21/18 19:15:38	N	IV
21801334-002	Lead, Total	N/A		Soil	2.54 ppm	1.0500 g	379 mg/Kg	1	0.3	7.5			2/21/18 19:15:38	N	IV

‡ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581213

Method/Testcode: 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801334-002	Selenium, Total	N/A		Soil	0.02 ppm	1.0500 g	3.2 mg/Kg	1	0.6	1.5			2/21/18 19:15:38	N	IV
R1801334-002	Silver, Total	N/A		Soil	0.01 ppm	1.0500 g	0.9 mg/Kg J	1	0.10	1.5			2/21/18 19:15:38	N	IV
R1801334-003	Arsenic, Total	N/A		Soil	0.09 ppm	1.0100 g	9.9 mg/Kg	1	0.4	1.1			2/21/18 19:18:59	N	IV
R1801334-003	Barium, Total	N/A		Soil	0.40 ppm	1.0100 g	44.2 mg/Kg	1	0.08	2.2			2/21/18 19:18:59	N	IV
R1801334-003	Cadmium, Total	N/A		Soil	0.01 ppm	1.0100 g	1.11 mg/Kg	1	0.02	0.55			2/21/18 19:18:59	N	IV
R1801334-003	Chromium, Total	N/A		Soil	0.08 ppm	1.0100 g	9.0 mg/Kg	1	0.10	1.1			2/21/18 19:18:59	N	IV
R1801334-003	Lead, Total	N/A		Soil	1.48 ppm	1.0100 g	161 mg/Kg	1	0.3	5.5			2/21/18 19:18:59	N	IV
R1801334-003	Selenium, Total	N/A		Soil	0.01 ppm	1.0100 g	0.8 mg/Kg J	1	0.5	1.1			2/21/18 19:18:59	N	IV
R1801334-003	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	1.1 mg/Kg U	1	0.08	1.1			2/21/18 19:18:59	N	IV
R1801334-007	Arsenic, Total	N/A		Soil	0.03 ppm	1.0400 g	3.8 mg/Kg	1	0.4	1.2			2/21/18 19:22:20	N	IV
R1801334-007	Barium, Total	N/A		Soil	0.41 ppm	1.0400 g	50.2 mg/Kg	1	0.09	2.5			2/21/18 19:22:20	N	IV
R1801334-007	Cadmium, Total	N/A		Soil	0.01 ppm	1.0400 g	0.83 mg/Kg	1	0.03	0.62			2/21/18 19:22:20	N	IV
R1801334-007	Chromium, Total	N/A		Soil	0.08 ppm	1.0400 g	10.4 mg/Kg	1	0.2	1.2			2/21/18 19:22:20	N	IV
R1801334-007	Lead, Total	N/A		Soil	0.20 ppm	1.0400 g	24.5 mg/Kg	1	0.3	6.2			2/21/18 19:22:20	N	IV
R1801334-007	Selenium, Total	N/A		Soil	0.01 ppm	1.0400 g	0.8 mg/Kg J	1	0.5	1.2			2/21/18 19:22:20	N	IV
R1801334-007	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	1.2 mg/Kg U	1	0.09	1.2			2/21/18 19:22:20	N	IV
R1801334-014	Arsenic, Total	N/A		Soil	0.05 ppm	1.0100 g	5.8 mg/Kg	1	0.4	1.1			2/21/18 19:25:41	Y	IV
R1801334-014	Barium, Total	N/A		Soil	0.22 ppm	1.0100 g	24.4 mg/Kg	1	0.09	2.2			2/21/18 19:25:41	Y	IV
R1801334-014	Cadmium, Total	N/A		Soil	0.01 ppm	1.0100 g	1.36 mg/Kg	1	0.02	0.56			2/21/18 19:25:41	Y	IV
R1801334-014	Chromium, Total	N/A		Soil	0.13 ppm	1.0100 g	14.0 mg/Kg	1	0.2	1.1			2/21/18 19:25:41	Y	IV
R1801334-014	Lead, Total	N/A		Soil	0.41 ppm	1.0100 g	45.6 mg/Kg	1	0.3	5.6			2/21/18 19:25:41	Y	IV
R1801334-014	Selenium, Total	N/A		Soil	0.01 ppm	1.0100 g	0.8 mg/Kg J	1	0.5	1.1			2/21/18 19:25:41	Y	IV
R1801334-014	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	1.1 mg/Kg U	1	0.08	1.1			2/21/18 19:25:41	Y	IV
RQ1801499-03	Arsenic, Total	MS	R1801334-014	Soil	0.09 ppm	1.0300 g	9.5 mg/Kg	1	0.4	1.1	84		2/21/18 19:29:02	N	IV
RQ1801499-03	Barium, Total	MS	R1801334-014	Soil	2.24 ppm	1.0300 g	245 mg/Kg	1	0.08	2.2	101		2/21/18 19:29:02	N	IV
RQ1801499-03	Cadmium, Total	MS	R1801334-014	Soil	0.06 ppm	1.0300 g	6.44 mg/Kg	1	0.02	0.55	93		2/21/18 19:29:02	N	IV
RQ1801499-03	Chromium, Total	MS	R1801334-014	Soil	0.31 ppm	1.0300 g	34.2 mg/Kg	1	0.10	1.1	93		2/21/18 19:29:02	N	IV
RQ1801499-03	Lead, Total	MS	R1801334-014	Soil	0.90 ppm	1.0300 g	98.7 mg/Kg	1	0.3	5.5	97		2/21/18 19:29:02	N	IV
RQ1801499-03	Selenium, Total	MS	R1801334-014	Soil	0.90 ppm	1.0300 g	98.4 mg/Kg	1	0.5	1.1	88		2/21/18 19:29:02	N	IV
RQ1801499-03	Silver, Total	MS	R1801334-014	Soil	0.05 ppm	1.0300 g	5.2 mg/Kg	1	0.08	1.1	96		2/21/18 19:29:02	N	IV
RQ1801499-04	Arsenic, Total	DMS	R1801334-014	Soil	0.09 ppm	1.0500 g	9.4 mg/Kg	1	0.4	1.1	84	<1	2/21/18 19:32:22	N	IV
RQ1801499-04	Barium, Total	DMS	R1801334-014	Soil	2.25 ppm	1.0500 g	242 mg/Kg	1	0.08	2.1	101	1	2/21/18 19:32:22	N	IV
RQ1801499-04	Cadmium, Total	DMS	R1801334-014	Soil	0.06 ppm	1.0500 g	6.35 mg/Kg	1	0.02	0.54	93	1	2/21/18 19:32:22	N	IV
RQ1801499-04	Chromium, Total	DMS	R1801334-014	Soil	0.32 ppm	1.0500 g	34.3 mg/Kg	1	0.10	1.1	94	<1	2/21/18 19:32:22	N	IV
RQ1801499-04	Lead, Total	DMS	R1801334-014	Soil	0.85 ppm	1.0500 g	91.1 mg/Kg	1	0.3	5.4	85	8	2/21/18 19:32:22	N	IV
RQ1801499-04	Selenium, Total	DMS	R1801334-014	Soil	0.91 ppm	1.0500 g	97.6 mg/Kg	1	0.5	1.1	89	<1	2/21/18 19:32:22	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581213 Method/Testcode: 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801499-04	Silver, Total	DMS	R1801334-014	Soil	0.05 ppm	1.0500 g	5.2 mg/Kg	1	0.08	1.1	97	<1	2/21/18 19:32:22	N	IV
R1801339-004	Arsenic, Total	N/A		Soil	0.01 ppm	1.0400 g	0.96 mg/Kg # U	1	0.29	0.96			2/21/18 19:49:05	N	II
R1801339-004	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.48 mg/Kg # U	1	0.02	0.48			2/21/18 19:49:05	N	II
R1801339-004	Chromium, Total	N/A		Soil	0.04 ppm	1.0400 g	3.60 mg/Kg #	1	0.10	0.96			2/21/18 19:49:05	N	II
R1801339-004	Copper, Total	N/A		Soil	1.60 ppm	1.0400 g	154 mg/Kg #	1	0.5	1.9			2/21/18 19:49:05	N	II
R1801339-004	Lead, Total	N/A		Soil	0.08 ppm	1.0400 g	7.5 mg/Kg #	1	0.2	4.8			2/21/18 19:49:05	N	II
R1801339-004	Molybdenum, Total	N/A		Soil	0.02 ppm	1.0400 g	2.4 mg/Kg # U	1	0.7	2.4			2/21/18 19:49:05	N	II
R1801339-004	Nickel, Total	N/A		Soil	0.02 ppm	1.0400 g	3.8 mg/Kg # U	1	0.7	3.8			2/21/18 19:49:05	N	II
R1801339-004	Potassium, Total	N/A		Soil	4.46 ppm	1.0400 g	430 mg/Kg #	1	20	190			2/21/18 19:49:05	N	II
R1801339-004	Selenium, Total	N/A		Soil	0.01 ppm	1.0400 g	0.96 mg/Kg # U	1	0.38	0.96			2/21/18 19:49:05	N	II
R1801339-004	Zinc, Total	N/A		Soil	1.39 ppm	1.0400 g	134 mg/Kg #	1	0.4	1.9			2/21/18 19:49:05	N	II
R1801384-005	Arsenic, Total	N/A		Soil	0.06 ppm	1.0300 g	6.7 mg/Kg	1	0.4	1.1			2/21/18 19:52:27	N	IV
R1801384-005	Barium, Total	N/A		Soil	0.61 ppm	1.0300 g	67.9 mg/Kg	1	0.09	2.2			2/21/18 19:52:27	N	IV
R1801384-005	Cadmium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.28 mg/Kg J	1	0.02	0.56			2/21/18 19:52:27	N	IV
R1801384-005	Chromium, Total	N/A		Soil	0.10 ppm	1.0300 g	10.8 mg/Kg	1	0.2	1.1			2/21/18 19:52:27	N	IV
R1801384-005	Lead, Total	N/A		Soil	3.62 ppm	1.0300 g	405 mg/Kg	1	0.3	5.6			2/21/18 19:52:27	N	IV
R1801384-005	Selenium, Total	N/A		Soil	0.01 ppm	1.0300 g	0.7 mg/Kg J	1	0.5	1.1			2/21/18 19:52:27	N	IV
R1801384-005	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	0.09 mg/Kg J	1	0.08	1.1			2/21/18 19:52:27	N	IV
R1801384-009	Arsenic, Total	N/A		Soil	0.04 ppm	1.0 g	5.0 mg/Kg	1	0.4	1.1			2/21/18 19:55:47	N	IV
R1801384-009	Barium, Total	N/A		Soil	0.88 ppm	1.0 g	97.3 mg/Kg	1	0.09	2.2			2/21/18 19:55:47	N	IV
R1801384-009	Cadmium, Total	N/A		Soil	0.00 ppm	1.0 g	0.34 mg/Kg J	1	0.02	0.56			2/21/18 19:55:47	N	IV
R1801384-009	Chromium, Total	N/A		Soil	0.10 ppm	1.0 g	11.4 mg/Kg	1	0.2	1.1			2/21/18 19:55:47	N	IV
R1801384-009	Lead, Total	N/A		Soil	0.09 ppm	1.0 g	10.5 mg/Kg	1	0.3	5.6			2/21/18 19:55:47	N	IV
R1801384-009	Selenium, Total	N/A		Soil	0.01 ppm	1.0 g	0.6 mg/Kg J	1	0.5	1.1			2/21/18 19:55:47	N	IV
R1801384-009	Silver, Total	N/A		Soil	0.00 ppm	1.0 g	1.1 mg/Kg U	1	0.08	1.1			2/21/18 19:55:47	N	IV
R1801384-015	Arsenic, Total	N/A		Soil	0.04 ppm	1.0100 g	5.4 mg/Kg	1	0.4	1.3			2/21/18 19:59:09	N	IV
R1801384-015	Barium, Total	N/A		Soil	1.45 ppm	1.0100 g	183 mg/Kg	1	0.10	2.5			2/21/18 19:59:09	N	IV
R1801384-015	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.33 mg/Kg J	1	0.03	0.63			2/21/18 19:59:09	N	IV
R1801384-015	Chromium, Total	N/A		Soil	0.07 ppm	1.0100 g	8.5 mg/Kg	1	0.2	1.3			2/21/18 19:59:09	N	IV
R1801384-015	Lead, Total	N/A		Soil	3.50 ppm	1.0100 g	443 mg/Kg	1	0.3	6.3			2/21/18 19:59:09	N	IV
R1801384-015	Selenium, Total	N/A		Soil	0.00 ppm	1.0100 g	1.3 mg/Kg U	1	0.5	1.3			2/21/18 19:59:09	N	IV
R1801384-015	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	1.3 mg/Kg U	1	0.09	1.3			2/21/18 19:59:09	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581214 Method/Testcode: 6010C/Pb T

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt.</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC?</u>	<u>Tier</u>
R1801227-026	Lead, Total	N/A		Water	0.01 ppm	50 mL	5.7 µg/L	1	3.6	5.0			2/21/18 20:09:11	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581215 Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801311-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	10	9	50			2/21/18 20:56:08	N	IV
21801311-005	Iron, Total	N/A		Water	7.40 ppm	50 mL	74000 µg/L	10	800	1000			2/21/18 20:56:08	N	IV
21801311-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	10	40	500			2/21/18 20:56:08	N	IV
21801311-005	Magnesium, Total	N/A		Water	21.96 ppm	50 mL	220000 µg/L	10	3000	10000			2/21/18 20:56:08	N	IV
21801311-005	Manganese, Total	N/A		Water	0.61 ppm	50 mL	6060 µg/L	10	50	100			2/21/18 20:56:08	N	IV
21801311-005	Potassium, Total	N/A		Water	21.10 ppm	50 mL	211000 µg/L	10	3000	20000			2/21/18 20:56:08	N	IV
21801311-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	10	9	50			2/21/18 20:59:29	N	IV
21801311-006	Iron, Total	N/A		Water	4.83 ppm	50 mL	48300 µg/L	10	800	1000			2/21/18 20:59:29	N	IV
21801311-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	10	40	500			2/21/18 20:59:29	N	IV
21801311-006	Magnesium, Total	N/A		Water	18.95 ppm	50 mL	189000 µg/L	10	3000	10000			2/21/18 20:59:29	N	IV
21801311-006	Manganese, Total	N/A		Water	1.32 ppm	50 mL	13200 µg/L	10	50	100			2/21/18 20:59:29	N	IV
21801311-006	Potassium, Total	N/A		Water	18.11 ppm	50 mL	181000 µg/L	10	3000	20000			2/21/18 20:59:29	N	IV
21801311-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	10	9	50			2/21/18 21:02:50	N	IV
21801311-007	Iron, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	10	800	1000			2/21/18 21:02:50	N	IV
21801311-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	10	40	500			2/21/18 21:02:50	N	IV
21801311-007	Magnesium, Total	N/A		Water	0.01 ppm	50 mL	10000 µg/L U	10	3000	10000			2/21/18 21:02:50	N	IV
21801311-007	Manganese, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	10	50	100			2/21/18 21:02:50	N	IV
21801311-007	Potassium, Total	N/A		Water	27.53 ppm	50 mL	275000 µg/L	10	3000	20000			2/21/18 21:02:50	N	IV
21801311-008	Calcium, Total	N/A		Water	40.34 ppm	50 mL	403000 µg/L	10	4000	10000			2/21/18 21:06:12	N	IV
21801311-008	Sodium, Total	N/A		Water	26.07 ppm	50 mL	261000 µg/L	10	4000	10000			2/21/18 21:06:12	N	IV
21801311-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	10	9	50			2/21/18 21:09:33	N	IV
21801311-009	Iron, Total	N/A		Water	8.09 ppm	50 mL	80900 µg/L	10	800	1000			2/21/18 21:09:33	N	IV
21801311-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	10	40	500			2/21/18 21:09:33	N	IV
21801311-009	Magnesium, Total	N/A		Water	16.66 ppm	50 mL	167000 µg/L	10	3000	10000			2/21/18 21:09:33	N	IV
21801311-009	Manganese, Total	N/A		Water	0.63 ppm	50 mL	6270 µg/L	10	50	100			2/21/18 21:09:33	N	IV
21801311-009	Potassium, Total	N/A		Water	34.55 ppm	50 mL	346000 µg/L	10	3000	20000			2/21/18 21:09:33	N	IV
21801311-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	10	9	50			2/21/18 21:12:54	N	IV
21801311-010	Iron, Total	N/A		Water	2.37 ppm	50 mL	23700 µg/L	10	800	1000			2/21/18 21:12:54	N	IV
21801311-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	10	40	500			2/21/18 21:12:54	N	IV
21801311-010	Magnesium, Total	N/A		Water	19.54 ppm	50 mL	195000 µg/L	10	3000	10000			2/21/18 21:12:54	N	IV
21801311-010	Manganese, Total	N/A		Water	1.19 ppm	50 mL	11900 µg/L	10	50	100			2/21/18 21:12:54	N	IV
21801311-010	Potassium, Total	N/A		Water	39.12 ppm	50 mL	391000 µg/L	10	3000	20000			2/21/18 21:12:54	N	IV
21801311-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	10	9	50			2/21/18 21:16:15	N	IV
21801311-013	Iron, Total	N/A		Water	1.00 ppm	50 mL	10000 µg/L	10	800	1000			2/21/18 21:16:15	N	IV
21801311-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	10	40	500			2/21/18 21:16:15	N	IV
21801311-013	Magnesium, Total	N/A		Water	69.70 ppm	50 mL	697000 µg/L	10	3000	10000			2/21/18 21:16:15	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581215

Method/Testcode: 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801311-013	Manganese, Total	N/A		Water	0.63 ppm	50 mL	6310 µg/L	10	50	100			2/21/18 21:16:15	N	IV
R1801311-013	Potassium, Total	N/A		Water	57.66 ppm	50 mL	577000 µg/L	10	3000	20000			2/21/18 21:16:15	N	IV
R1801311-003	Calcium, Total	N/A		Water	55.19 ppm	50 mL	1100000 µg/L	20	7000	20000			2/21/18 21:19:36	N	IV
R1801311-003	Sodium, Total	N/A		Water	24.13 ppm	50 mL	483000 µg/L	20	8000	20000			2/21/18 21:19:36	N	IV
R1801311-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	20	20	100			2/21/18 21:29:37	N	IV
R1801311-016	Iron, Total	N/A		Water	1.26 ppm	50 mL	25200 µg/L	20	1500	2000			2/21/18 21:29:37	N	IV
R1801311-016	Lead, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	20	80	1000			2/21/18 21:29:37	N	IV
R1801311-016	Magnesium, Total	N/A		Water	58.09 ppm	50 mL	1160000 µg/L	20	5000	20000			2/21/18 21:29:37	N	IV
R1801311-016	Manganese, Total	N/A		Water	0.39 ppm	50 mL	7760 µg/L	20	100	200			2/21/18 21:29:37	N	IV
R1801311-016	Potassium, Total	N/A		Water	49.53 ppm	50 mL	991000 µg/L	20	6000	40000			2/21/18 21:29:37	N	IV
R1801311-004	Calcium, Total	N/A		Water	109.47 ppm	50 mL	3280000 µg/L	30	10000	30000			2/21/18 21:32:57	Y	IV
R1801311-004	Potassium, Total	N/A		Water	3.98 ppm	50 mL	120000 µg/L	30	9000	60000			2/21/18 21:32:57	Y	IV
R1801311-004	Sodium, Total	N/A		Water	60.83 ppm	50 mL	1820000 µg/L	30	12000	30000			2/21/18 21:32:57	Y	IV
RQ1801483-03	Calcium, Total	MS	R1801311-004	Water	111.79 ppm	50 mL	3350000 µg/L	30	10000	30000	3482*		2/21/18 21:36:18	N	IV
RQ1801483-03	Potassium, Total	MS	R1801311-004	Water	4.78 ppm	50 mL	143000 µg/L	30	9000	60000	119		2/21/18 21:36:18	N	IV
RQ1801483-03	Sodium, Total	MS	R1801311-004	Water	62.62 ppm	50 mL	1880000 µg/L	30	12000	30000	269*		2/21/18 21:36:18	N	IV
RQ1801483-04	Calcium, Total	DMS	R1801311-004	Water	111.40 ppm	50 mL	3340000 µg/L	30	10000	30000	2894*	<1	2/21/18 21:39:39	N	IV
RQ1801483-04	Potassium, Total	DMS	R1801311-004	Water	4.76 ppm	50 mL	143000 µg/L	30	9000	60000	116	<1	2/21/18 21:39:39	N	IV
RQ1801483-04	Sodium, Total	DMS	R1801311-004	Water	62.49 ppm	50 mL	1870000 µg/L	30	12000	30000	249*	<1	2/21/18 21:39:39	N	IV
R1801311-001	Calcium, Total	N/A		Water	71.62 ppm	50 mL	3580000 µg/L	50	16000	50000			2/21/18 21:49:43	N	IV
R1801311-001	Iron, Total	N/A		Water	2.41 ppm	50 mL	121000 µg/L	50	3700	5000			2/21/18 21:49:43	N	IV
R1801311-001	Sodium, Total	N/A		Water	47.59 ppm	50 mL	2380000 µg/L	50	19000	50000			2/21/18 21:49:43	N	IV
R1801311-002	Calcium, Total	N/A		Water	68.65 ppm	50 mL	3430000 µg/L	50	16000	50000			2/21/18 21:53:04	N	IV
R1801311-002	Iron, Total	N/A		Water	2.32 ppm	50 mL	116000 µg/L	50	3700	5000			2/21/18 21:53:04	N	IV
R1801311-002	Sodium, Total	N/A		Water	45.79 ppm	50 mL	2290000 µg/L	50	19000	50000			2/21/18 21:53:04	N	IV
R1801311-017	Calcium, Total	N/A		Water	115.68 ppm	50 mL	5780000 µg/L	50	16000	50000			2/21/18 21:56:25	N	IV
R1801311-017	Potassium, Total	N/A		Water	4.34 ppm	50 mL	220000 µg/L	50	20000	100000			2/21/18 21:56:25	N	IV
R1801311-017	Sodium, Total	N/A		Water	45.78 ppm	50 mL	2290000 µg/L	50	19000	50000			2/21/18 21:56:25	N	IV
R1801311-005	Calcium, Total	N/A		Water	129.18 ppm	50 mL	12900000 µg/L	100	40000	100000			2/21/18 21:59:46	N	IV
R1801311-005	Sodium, Total	N/A		Water	87.90 ppm	50 mL	8790000 µg/L	100	40000	100000			2/21/18 21:59:46	N	IV
R1801311-006	Calcium, Total	N/A		Water	115.68 ppm	50 mL	11600000 µg/L	100	40000	100000			2/21/18 22:09:48	N	IV
R1801311-006	Sodium, Total	N/A		Water	78.70 ppm	50 mL	7870000 µg/L	100	40000	100000			2/21/18 22:09:48	N	IV
R1801311-007	Calcium, Total	N/A		Water	51.57 ppm	50 mL	5160000 µg/L	100	40000	100000			2/21/18 22:13:09	N	IV
R1801311-007	Sodium, Total	N/A		Water	29.41 ppm	50 mL	2940000 µg/L	100	40000	100000			2/21/18 22:13:09	N	IV
R1801311-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	100	90	500			2/21/18 22:16:30	N	IV
R1801311-011	Calcium, Total	N/A		Water	29.89 ppm	50 mL	2990000 µg/L	100	40000	100000			2/21/18 22:16:30	N	IV

90% to 100%

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581215 Method/Testcode: 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801311-011	Iron, Total	N/A		Water	0.03 ppm	50 mL	10000 µg/L U	100	8000	10000			2/21/18 22:16:30	N	IV
21801311-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	5000 µg/L U	100	400	5000			2/21/18 22:16:30	N	IV
21801311-011	Magnesium, Total	N/A		Water	5.05 ppm	50 mL	510000 µg/L	100	30000	100000			2/21/18 22:16:30	N	IV
21801311-011	Manganese, Total	N/A		Water	0.03 ppm	50 mL	2800 µg/L	100	500	1000			2/21/18 22:16:30	N	IV
21801311-011	Potassium, Total	N/A		Water	5.07 ppm	50 mL	510000 µg/L	100	30000	200000			2/21/18 22:16:30	N	IV
21801311-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	100	90	500			2/21/18 22:19:51	N	IV
21801311-012	Calcium, Total	N/A		Water	102.73 ppm	50 mL	10300000 µg/L	100	40000	100000			2/21/18 22:19:51	N	IV
21801311-012	Iron, Total	N/A		Water	0.06 ppm	50 mL	10000 µg/L U	100	8000	10000			2/21/18 22:19:51	N	IV
21801311-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	5000 µg/L U	100	400	5000			2/21/18 22:19:51	N	IV
21801311-012	Magnesium, Total	N/A		Water	9.58 ppm	50 mL	960000 µg/L	100	30000	100000			2/21/18 22:19:51	N	IV
21801311-012	Manganese, Total	N/A		Water	0.07 ppm	50 mL	7300 µg/L	100	500	1000			2/21/18 22:19:51	N	IV
21801311-012	Potassium, Total	N/A		Water	4.60 ppm	50 mL	460000 µg/L	100	30000	200000			2/21/18 22:19:51	N	IV
21801311-012	Sodium, Total	N/A		Water	93.72 ppm	50 mL	9370000 µg/L	100	40000	100000			2/21/18 22:19:51	N	IV
21801311-013	Calcium, Total	N/A		Water	93.76 ppm	50 mL	9380000 µg/L	100	40000	100000			2/21/18 22:23:12	N	IV
21801311-013	Sodium, Total	N/A		Water	76.27 ppm	50 mL	7630000 µg/L	100	40000	100000			2/21/18 22:23:12	N	IV
21801311-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	100	90	500			2/21/18 22:26:33	N	IV
21801311-014	Calcium, Total	N/A		Water	43.88 ppm	50 mL	4390000 µg/L	100	40000	100000			2/21/18 22:26:33	N	IV
21801311-014	Iron, Total	N/A		Water	0.08 ppm	50 mL	10000 µg/L U	100	8000	10000			2/21/18 22:26:33	N	IV
21801311-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	5000 µg/L U	100	400	5000			2/21/18 22:26:33	N	IV
21801311-014	Magnesium, Total	N/A		Water	6.89 ppm	50 mL	690000 µg/L	100	30000	100000			2/21/18 22:26:33	N	IV
21801311-014	Manganese, Total	N/A		Water	0.04 ppm	50 mL	3800 µg/L	100	500	1000			2/21/18 22:26:33	N	IV
21801311-014	Potassium, Total	N/A		Water	7.10 ppm	50 mL	710000 µg/L	100	30000	200000			2/21/18 22:26:33	N	IV
21801311-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	100	90	500			2/21/18 22:29:54	N	IV
21801311-015	Calcium, Total	N/A		Water	142.24 ppm	50 mL	14200000 µg/L	100	40000	100000			2/21/18 22:29:54	N	IV
21801311-015	Iron, Total	N/A		Water	0.40 ppm	50 mL	40000 µg/L	100	8000	10000			2/21/18 22:29:54	N	IV
21801311-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	5000 µg/L U	100	400	5000			2/21/18 22:29:54	N	IV
21801311-015	Magnesium, Total	N/A		Water	26.27 ppm	50 mL	2630000 µg/L	100	30000	100000			2/21/18 22:29:54	N	IV
21801311-015	Manganese, Total	N/A		Water	0.15 ppm	50 mL	15200 µg/L	100	500	1000			2/21/18 22:29:54	N	IV
21801311-015	Potassium, Total	N/A		Water	11.63 ppm	50 mL	1160000 µg/L	100	30000	200000			2/21/18 22:29:54	N	IV
21801311-016	Calcium, Total	N/A		Water	67.10 ppm	50 mL	6710000 µg/L	100	40000	100000			2/21/18 22:33:16	N	IV
21801311-016	Sodium, Total	N/A		Water	104.76 ppm	50 mL	10500000 µg/L	100	40000	100000			2/21/18 22:33:16	N	IV
21801311-009	Calcium, Total	N/A		Water	18.26 ppm	50 mL	18300000 µg/L	1000	400000	1000000			2/21/18 22:36:37	N	IV
21801311-009	Sodium, Total	N/A		Water	16.45 ppm	50 mL	16400000 µg/L	1000	400000	1000000			2/21/18 22:36:37	N	IV
21801311-010	Calcium, Total	N/A		Water	21.01 ppm	50 mL	21000000 µg/L	1000	400000	1000000			2/21/18 22:39:58	N	IV
21801311-010	Sodium, Total	N/A		Water	14.33 ppm	50 mL	14300000 µg/L	1000	400000	1000000			2/21/18 22:39:58	N	IV
21801311-011	Sodium, Total	N/A		Water	61.33 ppm	50 mL	61300000 µg/L	1000	400000	1000000			2/21/18 22:50:01	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581215 Method/Testcode: 6010C/Na T

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt.</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC?</u>	<u>Tier</u>
21801311-014	Sodium, Total	N/A		Water	44.38 ppm	50 mL	44400000 µg/L	1000	4000000	0000000			2/21/18 22:56:42	N	IV
21801311-015	Sodium, Total	N/A		Water	22.35 ppm	50 mL	22300000 µg/L	1000	4000000	0000000			2/21/18 23:00:02	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Metals Cover Page

Analyst: NM

Date: 2/22/18

Instrument: FIMSTL

Data File: FEB22-S

Reviewed By: NM

Entered By: NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
581245	Hg	308603	7471B		

## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No



NM 2/22/18

=====  
Analysis Begun

Logged In Analyst: ALRCE Metals01  
Spectrometer: FIMS-100, S/N B050-9550

Technique: AA FIMS-MHS  
Autosampler: S10

-----  
Sample Information File: C:\Users\Public\PerkinElmer\AA\Data\Sample Information\Routine.sif  
Batch ID:  
Results Data Set: FEB22-S  
Results Library: C:\Users\Public\PerkinElmer\AA\Data\Results\FEB18.mdb  
-----

=====  
Sequence No.: 1  
Sample ID: Calib Blank  
Analyst:  
Autosampler Location: 1  
Date Collected: 2/22/2018 11:58:11 AM  
Data Type: Original  
-----

Replicate Data: Calib Blank Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0000	-0.0004	0.0000	11:59:04 AM	Yes
2		[0.00]	0.0000	-0.0004	0.0000	11:59:32 AM	Yes
Mean:		[0.00]	0.0000				
SD:		0.0000	0.0000				
%RSD:		0.00%	49.95				

Auto-zero performed.

=====  
Sequence No.: 2  
Sample ID: 0.2ppb std  
Analyst:  
Autosampler Location: 2  
Date Collected: 2/22/2018 11:59:51 AM  
Data Type: Original  
-----

Replicate Data: 0.2ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0025	0.0115	0.0025	12:00:40 PM	Yes
2		[0.2]	0.0025	0.0114	0.0025	12:01:09 PM	Yes
Mean:		[0.2]	0.0025				
SD:		0.000	0.0000				
%RSD:		0.00%	0.91				

Standard number 1 applied. [0.2]  
Correlation Coef.: 1.000000 Slope: 0.01238 Intercept: 0.00000

=====  
Sequence No.: 3  
Sample ID: 0.5ppb std  
Analyst:  
Autosampler Location: 3  
Date Collected: 2/22/2018 12:01:28 PM  
Data Type: Original  
-----

Replicate Data: 0.5ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0061	0.0283	0.0061	12:02:17 PM	Yes
2		[0.5]	0.0063	0.0286	0.0063	12:02:46 PM	Yes
Mean:		[0.5]	0.0062				
SD:		0.000	0.0001				
%RSD:		0.00%	2.23				

Standard number 2 applied. [0.5]  
Correlation Coef.: 0.999999 Slope: 0.01239 Intercept: 0.00000

=====  
Sequence No.: 4  
Sample ID: 1.0ppb std  
Analyst:  
Autosampler Location: 4  
Date Collected: 2/22/2018 12:03:05 PM  
Data Type: Original  
-----

Replicate Data: 1.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0122	0.0561	0.0122	12:03:56 PM	Yes

2 [1.0] 0.0123 0.0569 0.0124 12:04:26 PM Yes  
 Mean: [1.0] 0.0123  
 SD: 0.000 0.0001  
 %RSD: 0.00% 0.93  
 Standard number 3 applied. [1.0]  
 Correlation Coef.: 0.999954 Slope: 0.01229 Intercept: 0.00000

Sequence No.: 5 Autosampler Location: 5  
 Sample ID: 2.0ppb std Date Collected: 2/22/2018 12:04:46 PM  
 Analyst: Data Type: Original

Replicate Data: 2.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[2.0]	[2.0]	0.0258	0.1165	0.0258	12:05:36 PM	Yes
2	[2.0]	[2.0]	0.0242	0.1114	0.0242	12:06:05 PM	Yes
Mean:	[2.0]	[2.0]	0.0250				
SD:	0.000	0.000	0.0011				
%RSD:	0.00%	0.00%	4.47				

Standard number 4 applied. [2.0]  
 Correlation Coef.: 0.999918 Slope: 0.01244 Intercept: 0.00000

Sequence No.: 6 Autosampler Location: 6  
 Sample ID: 5.0ppb std Date Collected: 2/22/2018 12:06:25 PM  
 Analyst: Data Type: Original

Replicate Data: 5.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0642	0.2940	0.0642	12:07:14 PM	Yes
2	[5.0]	[5.0]	0.0609	0.2788	0.0609	12:07:43 PM	Yes
Mean:	[5.0]	[5.0]	0.0625				
SD:	0.000	0.000	0.0024				
%RSD:	0.00%	0.00%	3.76				

Standard number 5 applied. [5.0]  
 Correlation Coef.: 0.999986 Slope: 0.01250 Intercept: 0.00000

Sequence No.: 7 Autosampler Location: 7  
 Sample ID: 10.0ppb std Date Collected: 2/22/2018 12:08:01 PM  
 Analyst: Data Type: Original

Replicate Data: 10.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.1258	0.5821	0.1259	12:08:51 PM	Yes
2	[10.0]	[10.0]	0.1188	0.5663	0.1188	12:09:19 PM	Yes
Mean:	[10.0]	[10.0]	0.1223				
SD:	0.000	0.000	0.0050				
%RSD:	0.00%	0.00%	4.09				

Standard number 6 applied. [10.0]  
 Correlation Coef.: 0.999921 Slope: 0.01229 Intercept: 0.00000

Calibration data for Hg 253.7 Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.000	0.00	49.95
0.2ppb std	0.0025	0.2	0.201	0.00	0.91
0.5ppb std	0.0062	0.5	0.504	0.00	2.23
1.0ppb std	0.0123	1.0	0.997	0.00	0.93
2.0ppb std	0.0250	2.0	2.033	0.00	4.47
5.0ppb std	0.0625	5.0	5.088	0.00	3.76
10.0ppb std	0.1223	10.0	9.949	0.01	4.09

Correlation Coef.: 0.999921 Slope: 0.01229 Intercept: 0.00000

Sequence No.: 8  
 Sample ID: ICV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 12:09:38 PM  
 Data Type: Original

## Replicate Data: ICV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.897	2.897	0.0356	0.1696	0.0356	12:10:29 PM	Yes
2	3.053	3.053	0.0375	0.1762	0.0376	12:10:57 PM	Yes
Mean:	2.975	2.975	0.0366				
SD:	0.1105	0.1105	0.0014				
%RSD:	3.72%	3.72%	3.72				

QC value within limits for Hg 253.7 Recovery = 99.16%

All analyte(s) passed QC.

Sequence No.: 9  
 Sample ID: ICB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 12:11:17 PM  
 Data Type: Original

## Replicate Data: ICB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	-0.0007	0.0000	12:12:05 PM	Yes
2	-0.003	-0.003	-0.0000	-0.0004	0.0000	12:12:34 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0003	0.0003	0.0000				
%RSD:	13.54%	13.54%	13.54				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 2/22/2018 12:12:52 PM  
 Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.207	0.207	0.0025	0.0113	0.0026	12:13:42 PM	Yes
2	0.193	0.193	0.0024	0.0105	0.0024	12:14:10 PM	Yes
Mean:	0.200	0.200	0.0025				
SD:	0.0102	0.0102	0.0001				
%RSD:	5.11%	5.11%	5.11				

QC value within limits for Hg 253.7 Recovery = 99.88%

All analyte(s) passed QC.

Sequence No.: 11  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 12:14:29 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.105	3.105	0.0382	0.1731	0.0382	12:15:19 PM	Yes
2	2.947	2.947	0.0362	0.1689	0.0363	12:15:47 PM	Yes
Mean:	3.026	3.026	0.0372				
SD:	0.1116	0.1116	0.0014				
%RSD:	3.69%	3.69%	3.69				

QC value within limits for Hg 253.7 Recovery = 100.85%

All analyte(s) passed QC.

Sequence No.: 12  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 12:16:06 PM  
 Data Type: Original

-----  
Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	-0.0006	0.0000	12:16:56 PM	Yes
2	-0.002	-0.002	-0.0000	-0.0004	0.0000	12:17:25 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0002	0.0002	0.0000				
%RSD:	10.66%	10.66%	10.66				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

-----  
Sequence No.: 13

Autosampler Location: 38

Sample ID: PBS-308603

Date Collected: 2/22/2018 12:17:44 PM

Analyst:

Data Type: Original

-----  
Replicate Data: PBS-308603

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.0000	-0.0008	-0.0000	12:18:33 PM	Yes
2	-0.001	-0.001	-0.0000	-0.0001	0.0000	12:19:02 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0009	0.0009	0.0000				
%RSD:	43.27%	43.27%	43.27				

-----  
Sequence No.: 14

Autosampler Location: 39

Sample ID: LCSS-308603

Date Collected: 2/22/2018 12:19:21 PM

Analyst:

Data Type: Original

-----  
Replicate Data: LCSS-308603

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.918	0.918	0.0113	0.0510	0.0113	12:20:11 PM	Yes
2	0.906	0.906	0.0111	0.0508	0.0112	12:20:40 PM	Yes
Mean:	0.912	0.912	0.0112				
SD:	0.0088	0.0088	0.0001				
%RSD:	0.96%	0.96%	0.96				

-----  
Sequence No.: 15

Autosampler Location: 40

Sample ID: R1801334-001

Date Collected: 2/22/2018 12:20:59 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801334-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.826	1.826	0.0224	0.1020	0.0225	12:21:49 PM	Yes
2	1.892	1.892	0.0233	0.1074	0.0233	12:22:18 PM	Yes
Mean:	1.859	1.859	0.0229				
SD:	0.0471	0.0471	0.0006				
%RSD:	2.53%	2.53%	2.53				

-----  
Sequence No.: 16

Autosampler Location: 41

Sample ID: R1801334-002

Date Collected: 2/22/2018 12:22:37 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801334-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	16.21	16.21	0.1992	0.8870	0.1993	12:23:27 PM	Yes
2	15.28	15.28	0.1879	0.8356	0.1879	12:23:56 PM	Yes
Mean:	15.74	15.74	0.1936				

Sample concentration is greater than that of the highest standard.  
Sample concentration is greater than that of the highest standard.

SD: 0.652 0.652 0.0080  
 %RSD: 4.14% 4.14% 4.14

Sample concentration is greater than that of the highest standard.

Sequence No.: 17  
 Sample ID: R1801334-003  
 Analyst:

Autosampler Location: 42  
 Date Collected: 2/22/2018 12:24:16 PM  
 Data Type: Original

Replicate Data: R1801334-003

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.468	0.468	0.0058	0.0260	0.0058	12:25:06 PM	Yes
2	0.487	0.487	0.0060	0.0267	0.0060	12:25:34 PM	Yes
Mean:	0.478	0.478	0.0059				
SD:	0.0137	0.0137	0.0002				
%RSD:	2.87%	2.87%	2.87				

Sequence No.: 18  
 Sample ID: R1801334-007  
 Analyst:

Autosampler Location: 43  
 Date Collected: 2/22/2018 12:25:54 PM  
 Data Type: Original

Replicate Data: R1801334-007

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.353	0.353	0.0043	0.0192	0.0044	12:26:43 PM	Yes
2	0.352	0.352	0.0043	0.0193	0.0044	12:27:12 PM	Yes
Mean:	0.352	0.352	0.0043				
SD:	0.0008	0.0008	0.0000				
%RSD:	0.22%	0.22%	0.22				

Sequence No.: 19  
 Sample ID: R1801334-014  
 Analyst:

Autosampler Location: 44  
 Date Collected: 2/22/2018 12:27:31 PM  
 Data Type: Original

Replicate Data: R1801334-014

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.132	0.132	0.0016	0.0081	0.0017	12:28:21 PM	Yes
2	0.136	0.136	0.0017	0.0075	0.0017	12:28:50 PM	Yes
Mean:	0.134	0.134	0.0016				
SD:	0.0027	0.0027	0.0000				
%RSD:	2.02%	2.02%	2.02				

Sequence No.: 20  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 12:29:09 PM  
 Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.207	3.207	0.0394	0.1799	0.0395	12:29:59 PM	Yes
2	3.063	3.063	0.0377	0.1667	0.0377	12:30:28 PM	Yes
Mean:	3.135	3.135	0.0385				
SD:	0.1015	0.1015	0.0012				
%RSD:	3.24%	3.24%	3.24				

QC value within limits for Hg 253.7 Recovery = 104.50%  
 All analyte(s) passed QC.

Sequence No.: 21  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 12:30:47 PM  
 Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	0.0001	0.0000	12:31:36 PM	Yes
2	0.001	0.001	0.0000	0.0001	0.0000	12:32:07 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0009	0.0009	0.0000				
%RSD:	187.48%	187.48%	187.48				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 22

Autosampler Location: 61

Sample ID: R1801334-002 5X

Date Collected: 2/22/2018 12:32:25 PM

Analyst:

Data Type: Original

## Replicate Data: R1801334-002 5X

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.315	3.315	0.0407	0.1838	0.0408	12:33:16 PM	Yes
2	3.301	3.301	0.0406	0.1822	0.0406	12:33:45 PM	Yes
Mean:	3.308	3.308	0.0407				
SD:	0.0097	0.0097	0.0001				
%RSD:	0.29%	0.29%	0.29				

Sequence No.: 23

Autosampler Location: 45

Sample ID: R1801334-014S

Date Collected: 2/22/2018 12:34:05 PM

Analyst:

Data Type: Original

## Replicate Data: R1801334-014S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.184	1.184	0.0146	0.0641	0.0146	12:34:54 PM	Yes
2	1.145	1.145	0.0141	0.0631	0.0141	12:35:23 PM	Yes
Mean:	1.164	1.164	0.0143				
SD:	0.0278	0.0278	0.0003				
%RSD:	2.39%	2.39%	2.39				

Sequence No.: 24

Autosampler Location: 46

Sample ID: R1801334-014SD

Date Collected: 2/22/2018 12:35:43 PM

Analyst:

Data Type: Original

## Replicate Data: R1801334-014SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.199	1.199	0.0147	0.0696	0.0148	12:36:33 PM	Yes
2	1.218	1.218	0.0150	0.0683	0.0150	12:37:02 PM	Yes
Mean:	1.209	1.209	0.0149				
SD:	0.0138	0.0138	0.0002				
%RSD:	1.14%	1.14%	1.14				

Sequence No.: 25

Autosampler Location: 47

Sample ID: R1801339-004

Date Collected: 2/22/2018 12:37:21 PM

Analyst:

Data Type: Original

## Replicate Data: R1801339-004

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.825	0.825	0.0101	0.0443	0.0102	12:38:11 PM	Yes
2	0.817	0.817	0.0100	0.0431	0.0101	12:38:40 PM	Yes
Mean:	0.821	0.821	0.0101				
SD:	0.0059	0.0059	0.0001				
%RSD:	0.72%	0.72%	0.72				



Sequence No.: 26  
 Sample ID: R1801384-005  
 Analyst:

Autosampler Location: 48  
 Date Collected: 2/22/2018 12:39:00 PM  
 Data Type: Original

## Replicate Data: R1801384-005

Analyte: Hg 253.7

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	4.057	4.057	0.0499	0.2270	0.0499	12:39:51 PM	Yes
2	4.295	4.295	0.0528	0.2431	0.0528	12:40:20 PM	Yes
Mean:	4.176	4.176	0.0513				
SD:	0.1684	0.1684	0.0021				
%RSD:	4.03%	4.03%	4.03				

Sequence No.: 27  
 Sample ID: R1801384-009  
 Analyst:

Autosampler Location: 49  
 Date Collected: 2/22/2018 12:40:40 PM  
 Data Type: Original

## Replicate Data: R1801384-009

Analyte: Hg 253.7

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.383	0.383	0.0047	0.0212	0.0047	12:41:31 PM	Yes
2	0.370	0.370	0.0045	0.0196	0.0046	12:42:00 PM	Yes
Mean:	0.376	0.376	0.0046				
SD:	0.0092	0.0092	0.0001				
%RSD:	2.45%	2.45%	2.45				

Sequence No.: 28  
 Sample ID: R1801384-015  
 Analyst:

Autosampler Location: 50  
 Date Collected: 2/22/2018 12:42:20 PM  
 Data Type: Original

## Replicate Data: R1801384-015

Analyte: Hg 253.7

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	1.510	1.510	0.0186	0.0833	0.0186	12:43:10 PM	Yes
2	1.497	1.497	0.0184	0.0840	0.0184	12:43:39 PM	Yes
Mean:	1.503	1.503	0.0185				
SD:	0.0090	0.0090	0.0001				
%RSD:	0.60%	0.60%	0.60				

Sequence No.: 29  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 2/22/2018 12:43:58 PM  
 Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	0.206	0.206	0.0025	0.0109	0.0026	12:44:48 PM	Yes
2	0.219	0.219	0.0027	0.0127	0.0027	12:45:17 PM	Yes
Mean:	0.213	0.213	0.0026				
SD:	0.0090	0.0090	0.0001				
%RSD:	4.24%	4.24%	4.24				

QC value within limits for Hg 253.7 Recovery = 106.29%  
 All analyte(s) passed QC.

Sequence No.: 30  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 12:45:35 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl	SampleConc	StndConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	3.246	3.246	0.0399	0.1806	0.0399	12:46:25 PM	Yes
2	3.376	3.376	0.0415	0.1815	0.0415	12:46:54 PM	Yes

Mean: 3.311 3.311 0.0407  
 SD: 0.0920 0.0920 0.0011  
 %RSD: 2.78% 2.78% 2.78

QC value greater than the upper limit for Hg 253.7 Recovery = 110.37% OK 7471B  
 QC Failed. Continue with analysis.

Sequence No.: 31

Autosampler Location: 1

Sample ID: CCB

Date Collected: 2/22/2018 12:47:14 PM

Analyst:

Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.008	0.008	0.0001	0.0011	0.0001	12:48:03 PM	Yes
2	0.007	0.007	0.0001	0.0010	0.0001	12:48:31 PM	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.0002	0.0002	0.0000				
%RSD:	2.91%	2.91%	2.91				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 32

Autosampler Location: 51

Sample ID: Sample051

Date Collected: 2/22/2018 12:48:50 PM

Analyst:

Data Type: Original

Replicate Data: Sample051

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0008	0.0001	12:49:40 PM	Yes
2	0.008	0.008	0.0001	0.0011	0.0001	12:50:08 PM	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.0020	0.0020	0.0000				
%RSD:	32.55%	32.55%	32.55				

# Preparation Information Benchsheet

Prep Run#: 308603  
Team: Metals/NMANSEN

Prep Workflow: HgDigS  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 2/20/18 10:24 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801500-01	MB		0.6g	7471B/Hg				100.00mL			HB: 4 Well: B5 Temperature: 93.0C/95.0C Correction factor: -1.0C Corr. Temp: 92.0C/94.0C
2	RQ1801500-02	LCS		0.6g	7471B/Hg				100.00mL		1.0000 mL/188123	Digest on HB: 12:02 Digest off HB: 12:32
3	R1801334-001	TB-01 (3.0)	.01	0.6400g	7471B/Hg				100.00mL			
4	R1801334-002	TB-02 (8.0)	.01	0.6g	7471B/Hg				100.00mL			
5	R1801334-003	TB-04 (2.5)	.01	0.6g	7471B/Hg				100.00mL			
6	R1801334-007	TB-14 (7.0)	.02	0.6400g	7471B/Hg				100.00mL			
7	R1801334-014	TB-24 (2.5)	.01	0.6200g	7471B/Hg				100.00mL			
8	RQ1801500-03	R1801334-014 MS	.01	0.6200g	7471B/Hg				100.00mL		1.0000 mL/188123	
9	RQ1801500-04	R1801334-014 DMS	.01	0.6300g	7471B/Hg				100.00mL		1.0000 mL/188123	
10	R1801339-004	DW Sludge	.04	0.6200g	7471B/Hg				100.00mL			
11	R1801384-005	TB-4 (2.5-3.5)	.01	0.6200g	7471B/Hg				100.00mL			
12	R1801384-009	TB-6 (5-6)	.01	0.6100g	7471B/Hg				100.00mL			
13	R1801384-015	TB-10 (7-8)	.01	0.6500g	7471B/Hg				100.00mL			

### Spiking Solutions

Name: Mercury LCSW Metals Hg      Inventory ID: 188123      Logbook Ref: 188123      Expires On: 02/21/2018

### Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	1:1 Nitric Acid Metals Grade	M7600003T (185923)	Hot Block Cups	125 mL 1703076 (184034)
Hydroxylamine Hydrochloride Reagent Grade	M7600003R (185155)	Potassium Permanganate RG KMnO4	M7600003S (185356)	Thermometer	377 (182584)

### Preparation Steps

Step: Digestion  
Started: 2/20/18 10:24  
Finished: 2/22/18 11:49  
By: NMANSEN  
Comments

Comments: Prepped with curve M7590088K

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 308603

Team: Metals/NMANSEN

Prep WorkFlow: HgDigS

Prep Method: Method

Status: Prepped

Prep Date/Time: 2/20/18 10:24 AM

## Chain of Custody

Relinquished By: <u><i>Nicol R/S</i></u>	Date: <u>2/22/18</u>	Extracts Examined Yes      No
Received By: <u>RAOI</u>	Date: <u>2/22/18</u>	

MERCURY CALIBRATION / CRDL STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg Cal Stk A	M760000IV	1000	1.00	100	10	0.5% HNO <sub>3</sub>	NM 2/5/18	A	M760000ST	2/22/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg Cal StkB	Hg Cal Stk A	10.0	1.00	100	0.100	0.5% HNO <sub>3</sub>	NM 2/5/18	B	M760000ST	M28
							NM 2/20/18	C	M760000ST	M28
							NM 2/21/18	D	M760000ST	M28
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CAL Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	0.05	Soils- Dilute to 10mL w/ DI. Final vol. 100mL after digest. Water - dilute to Final Vol of 25 mL with DI before digest.	0.200	Water	NM 2/5/18	I	M26, M31
0.500			0.500	0.125		0.500	Soil	NM 2/5/18	J	M26
1.00			1.00	0.25		1.00	Soil	NM 2/20/18	K	M26
2.00			2.00	0.5		2.00	Soil	NM 2/21/18	L	M26
5.00			5.00	1.25		5.00			M	
10.0			10.0	2.5		10.0			N	
CRA			0.200	0.05		0.200			O	

### MERCURY CCV / LCSW / MS STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg CCV Stk A	M7600001Q	1000	1.00	100	10	0.5% HNO <sub>3</sub>	NM 2/15/18	A	M7600003T	2/22/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg CCV StkB	Hg CCV Stk A	10.0	1.00	100	0.100	0.5% HNO <sub>3</sub>	NM 2/15/18	B	M7600003T	M28
							NM 2/20/18	C	M7600003T	M28
							NM 2/21/18	D	M7600003T	M28
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CCV Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
CCV	Hg CCV Stk B	0.100	3.00	0.75	Soils - Final vol. 100mL after digest.	3.00	Water	NM 2/15/18	I	M26, M31
LCS / MS			1.00	0.25		1.00	Soil	NM 2/15/18	J	M26
					Water - Final Vol of 25 mL before digest.		Soil	NM 2/20/18	K	M26
							Soil	NM 2/21/18	L	M26
									M	
									N	
									O	

### Sample Dilutions

Analyst: NM

Date 2/22/18

Instrument: FIMSII

Analysis 7471B

#### Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/100	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/1000	1	9	1/1000	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10000	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000

#### Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 581245 Method/Testcode: 7471B/Hg

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801500-01	Mercury, Total	MB		Soil	0.00 µg/L	0.6 g	0.033 mg/Kg U	1 /	0.010	0.033			2/22/18 12:19	N	IV
RQ1801500-02	Mercury, Total	LCS		Soil	0.91 µg/L	0.6 g	0.152 mg/Kg	1 /	0.010	0.033	91		2/22/18 12:20	N	IV
R1801334-001	Mercury, Total	N/A		Soil	1.86 µg/L	0.6400 g	0.351 mg/Kg	1 /	0.011	0.037			2/22/18 12:22	N	IV
R1801334-003	Mercury, Total	N/A		Soil	0.48 µg/L	0.6 g	0.088 mg/Kg	1 /	0.011	0.036			2/22/18 12:25	N	IV
R1801334-007	Mercury, Total	N/A		Soil	0.35 µg/L	0.6400 g	0.071 mg/Kg	1 /	0.012	0.040			2/22/18 12:27	N	IV
R1801334-014	Mercury, Total	N/A		Soil	0.13 µg/L	0.6200 g	0.024 mg/Kg J	1 /	0.011	0.036			2/22/18 12:28	Y	IV
R1801334-002	Mercury, Total	N/A		Soil	3.31 µg/L	0.6 g	4.31 mg/Kg	5 /	0.08	0.26			2/22/18 12:33	N	IV
RQ1801500-03	Mercury, Total	MS	R1801334-014	Soil	1.16 µg/L	0.6200 g	0.212 mg/Kg	1 /	0.011	0.036	103		2/22/18 12:35	N	IV
RQ1801500-04	Mercury, Total	DMS	R1801334-014	Soil	1.21 µg/L	0.6300 g	0.216 mg/Kg	1 /	0.011	0.035	107	2	2/22/18 12:37	N	IV
R1801339-004	Mercury, Total	N/A		Soil	0.82 µg/L	0.6200 g	0.132 mg/Kg #	1 /	0.010	0.032			2/22/18 12:38	N	II
R1801384-005	Mercury, Total	N/A		Soil	4.18 µg/L	0.6200 g	0.776 mg/Kg	1 /	0.011	0.037			2/22/18 12:40	N	IV
R1801384-009	Mercury, Total	N/A		Soil	0.38 µg/L	0.6100 g	0.069 mg/Kg	1 /	0.011	0.036			2/22/18 12:42	N	IV
R1801384-015	Mercury, Total	N/A		Soil	1.50 µg/L	0.6500 g	0.296 mg/Kg	1 /	0.012	0.039			2/22/18 12:43	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	961	96	1000	946	95	940	94	P
Barium	10000	10400	104	10000	10300	103	10300	103	P
Cadmium	500	500	100	500	495	99	489	98	P
Mercury	3.00	2.97	99	3.00	3.03	101	3.14	105	CV
Chromium	500	518	104	500	516	103	518	104	P
Lead	500	499	100	500	495	99	488	98	P
Selenium	500	482	96	500	475	95	471	94	P
Silver	500	489	98	500	487	97	486	97	P

Comments:

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	938	94	931	93	P
Barium				10000	10300	103	10300	103	P
Cadmium				500	487	97	484	97	P
Mercury				3.00	3.31	110			CV
Chromium				500	518	104	517	103	P
Lead				500	487	97	485	97	P
Selenium				500	467	93	468	94	P
Silver				500	486	97	485	97	P

Comments:

METALS

-3-

BLANKS

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		
		1	C	2	C	3	C	C	M	
Arsenic	2.90 U	2.90	U	2.90	U	2.90	U	0.290	U	P
Barium	0.73 U	0.73	U	1.20	J	1.70	J	0.073	U	P
Cadmium	0.17 U	0.17	U	0.17	U	0.17	U	0.017	U	P
Mercury	0.057 U	0.057	U	0.057	U	0.057	U	0.009	U	CV
Chromium	0.91 U	0.91	U	0.91	U	0.91	U	0.091	U	P
Lead	1.94 U	1.94	U	1.94	U	1.94	U	0.194	U	P
Selenium	3.77 U	3.77	U	3.77	U	3.77	U	0.377	U	P
Silver	0.66 U	0.66	U	0.66	U	0.66	U	0.066	U	P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		2.90	U							P
Barium		2.80	J							P
Cadmium		0.20	J							P
Chromium		0.91	U							P
Lead		1.94	U							P
Selenium		3.77	U							P
Silver		0.66	U							P

Comments:

METALS

-14-

ANALYSIS RUN LOG

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TB-01 (3.0)

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/21/2018 End Date: 2/21/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	18:21				X	X	X	X				X						X	X						
STANDARD 1	1.00	18:25				X	X	X	X				X						X	X						
STANDARD 2	1.00	18:28				X	X	X	X				X						X	X						
STANDARD 3	1.00	18:32				X	X	X	X				X						X	X						
STANDARD 4	1.00	18:35				X	X	X	X				X						X	X						
STANDARD 5	1.00	18:38				X	X	X	X				X						X	X						
ICV1	1.00	18:42				X	X	X	X				X						X	X						
ICB1	1.00	18:45				X	X	X	X				X						X	X						
CRDL1	1.00	18:48				X	X	X	X				X						X	X						
ICS-A1	1.00	18:52				X	X	X	X				X						X	X						
ICS-AB1	1.00	18:55				X	X	X	X				X						X	X						
CCV1	1.00	18:58				X	X	X	X				X						X	X						
CCB1	1.00	19:02				X	X	X	X				X						X	X						
PBS	1.00	19:05				X	X	X	X				X						X	X						
LCSS	1.00	19:08				X	X	X	X				X						X	X						
TB-01 (3.0)	1.00	19:12				X	X	X	X				X						X	X						
TB-02 (8.0)	1.00	19:15				X	X	X	X				X						X	X						
TB-04 (2.5)	1.00	19:18				X	X	X	X				X						X	X						
TB-14 (7.0)	1.00	19:22				X	X	X	X				X						X	X						
TB-24 (2.5)	1.00	19:25				X	X	X	X				X						X	X						
TB-24 (2.5)S	1.00	19:29				X	X	X	X				X						X	X						
TB-24 (2.5)SD	1.00	19:32				X	X	X	X				X						X	X						
TB-24 (2.5)A	1.00	19:35				X	X	X	X				X						X	X						
CCV2	1.00	19:39				X	X	X	X				X						X	X						
CCB2	1.00	19:42				X	X	X	X				X						X	X						
TB-24 (2.5)L	5.00	19:45				X	X	X	X				X						X	X						
ZZZZZZ	1.00	19:49																								
ZZZZZZ	1.00	19:52																								
ZZZZZZ	1.00	19:55																								
ZZZZZZ	1.00	19:59																								
ZZZZZZ	1.00	20:02																								
ZZZZZZ	1.00	20:05																								
ZZZZZZ	1.00	20:09																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TB-01 (3.0)

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/21/2018 End Date: 2/21/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
ZZZZZZ	5.00	20:12																								
CCV3	1.00	20:15				X	X		X	X				X						X	X					
CCB3	1.00	20:19				X	X		X	X				X						X	X					
CRDL2	1.00	20:22				X	X		X	X				X						X	X					
ICS-A2	1.00	20:25				X	X		X	X				X						X	X					
ICS-AB2	1.00	20:29				X	X		X	X				X						X	X					
ZZZZZZ	1.00	20:32																								
ZZZZZZ	1.00	20:36																								
ZZZZZZ	1.00	20:39																								
CCV4	1.00	20:42				X	X		X	X				X						X	X					
CCB4	1.00	20:46				X	X		X	X				X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



METALS

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PREPARATION LOG

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
LCSS	2/20/2018	1.00	100.0
PBS	2/20/2018	1.00	100.0
TB-01 (3.0)	2/20/2018	1.01	100.0
TB-02 (8.0)	2/20/2018	1.05	100.0
TB-04 (2.5)	2/20/2018	1.01	100.0
TB-14 (7.0)	2/20/2018	1.04	100.0
TB-24 (2.5)	2/20/2018	1.01	100.0
TB-24 (2.5) S	2/20/2018	1.03	100.0
TB-24 (2.5) SD	2/20/2018	1.05	100.0

Comments:



METALS

-13-

PREPARATION LOG

Contract: R1801334

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TB-01 (3.0)

Method: CV

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
LCSS	2/20/2018	0.60	100.0
PBS	2/20/2018	0.60	100.0
TB-01 (3.0)	2/20/2018	0.64	100.0
TB-02 (8.0)	2/20/2018	0.60	100.0
TB-04 (2.5)	2/20/2018	0.60	100.0
TB-14 (7.0)	2/20/2018	0.64	100.0
TB-24 (2.5)	2/20/2018	0.62	100.0
TB-24 (2.5) S	2/20/2018	0.62	100.0
TB-24 (2.5) SD	2/20/2018	0.63	100.0

Comments:



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-01 (3.0)  
**Lab Code:** R1801334-001

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:08  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.8	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-02 (8.0)  
**Lab Code:** R1801334-002

**Service Request:** R1801334  
**Date Collected:** 02/12/18 09:48  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	63.9	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-04 (2.5)  
**Lab Code:** R1801334-003

**Service Request:** R1801334  
**Date Collected:** 02/12/18 10:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	90.6	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-07 (5.5)  
**Lab Code:** R1801334-004

**Service Request:** R1801334  
**Date Collected:** 02/12/18 13:25  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	66.9	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-10 (15.0)  
**Lab Code:** R1801334-005

**Service Request:** R1801334  
**Date Collected:** 02/12/18 14:40  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	79.2	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-13 (8.0)  
**Lab Code:** R1801334-006

**Service Request:** R1801334  
**Date Collected:** 02/12/18 15:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	86.0	Percent	-	-	1	02/20/18 14:30	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-14 (7.0)  
**Lab Code:** R1801334-007

**Service Request:** R1801334  
**Date Collected:** 02/13/18 08:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	78.0	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-15 (7.0-7.5)  
**Lab Code:** R1801334-008

**Service Request:** R1801334  
**Date Collected:** 02/13/18 09:40  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	83.4	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-18 (10.0-11.0)  
**Lab Code:** R1801334-009

**Service Request:** R1801334  
**Date Collected:** 02/13/18 11:29  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.9	Percent	-	-	1	02/20/18 14:30	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-19 (10.0)  
**Lab Code:** R1801334-010

**Service Request:** R1801334  
**Date Collected:** 02/13/18 12:40  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	88.2	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-20 (3.0)  
**Lab Code:** R1801334-011

**Service Request:** R1801334  
**Date Collected:** 02/13/18 13:30  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	95.5	Percent	-	-	1	02/20/18 14:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-21 (5.0)  
**Lab Code:** R1801334-012

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:00  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	81.1	Percent	-	-	1	02/20/18 14:30	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-22 (12.0)  
**Lab Code:** R1801334-013

**Service Request:** R1801334  
**Date Collected:** 02/13/18 14:55  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	91.0	Percent	-	-	1	02/20/18 14:30	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TB-24 (2.5)  
**Lab Code:** R1801334-014

**Service Request:** R1801334  
**Date Collected:** 02/13/18 16:25  
**Date Received:** 02/14/18 16:35  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	88.7	Percent	-	-	1	02/20/18 14:30	



# Analytical Results Summary

Instrument Name: R-Balance-18

Analyst: KMENGs

Analysis Lot: 580982 Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801334-001	Total Solids	N/A		Soil	82.80 Percent		82.8 Percent	1					2/20/18 14:30	N	IV
RQ1801526-01	Total Solids	DUP	R1801334-001	Soil	84.94 Percent		84.9 Percent	1				3	2/20/18 14:30	N	IV
R1801334-002	Total Solids	N/A		Soil	63.86 Percent		63.9 Percent	1					2/20/18 14:30	N	IV
R1801334-003	Total Solids	N/A		Soil	90.55 Percent		90.6 Percent	1					2/20/18 14:30	N	IV
R1801334-004	Total Solids	N/A		Soil	66.85 Percent		66.9 Percent	1					2/20/18 14:30	N	IV
R1801334-005	Total Solids	N/A		Soil	79.20 Percent		79.2 Percent	1					2/20/18 14:30	N	IV
R1801334-006	Total Solids	N/A		Soil	85.95 Percent		86.0 Percent	1					2/20/18 14:30	N	IV
R1801334-007	Total Solids	N/A		Soil	77.97 Percent		78.0 Percent	1					2/20/18 14:30	N	IV
R1801334-008	Total Solids	N/A		Soil	83.42 Percent		83.4 Percent	1					2/20/18 14:30	N	IV
R1801334-009	Total Solids	N/A		Soil	82.92 Percent		82.9 Percent	1					2/20/18 14:30	N	IV
R1801334-010	Total Solids	N/A		Soil	88.25 Percent		88.2 Percent	1					2/20/18 14:30	N	IV
R1801334-011	Total Solids	N/A		Soil	95.52 Percent		95.5 Percent	1					2/20/18 14:30	N	IV
R1801334-012	Total Solids	N/A		Soil	81.12 Percent		81.1 Percent	1					2/20/18 14:30	N	IV
R1801334-013	Total Solids	N/A		Soil	91.00 Percent		91.0 Percent	1					2/20/18 14:30	N	IV
R1801334-014	Total Solids	N/A		Soil	88.66 Percent		88.7 Percent	1					2/20/18 14:30	Y	IV
RQ1801526-02	Total Solids	DUP	R1801334-014	Soil	86.94 Percent		86.9 Percent	1				2	2/20/18 14:30	N	IV
R1801384-001	Total Solids	N/A		Soil	89.70 Percent		89.7 Percent	1					2/20/18 14:30	N	IV
R1801384-002	Total Solids	N/A		Soil	90.28 Percent		90.3 Percent	1					2/20/18 14:30	N	IV
R1801384-003	Total Solids	N/A		Soil	86.54 Percent		86.5 Percent	1					2/20/18 14:30	N	IV
R1801384-004	Total Solids	N/A		Soil	85.55 Percent		85.6 Percent	1					2/20/18 14:30	N	IV
R1801384-005	Total Solids	N/A		Soil	86.82 Percent		86.8 Percent	1					2/20/18 14:30	N	IV
R1801384-006	Total Solids	N/A		Soil	90.13 Percent		90.1 Percent	1					2/20/18 14:30	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-Balance-18

Analyst: KMENGs

Analysis Lot: 580983 Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801384-007	Total Solids	N/A		Soil	89.40 Percent		89.4 Percent	1					2/20/18 14:30	N	IV
RQ1801527-01	Total Solids	DUP	R1801384-007	Soil	88.97 Percent		89.0 Percent	1				<1	2/20/18 14:30	N	IV
R1801384-008	Total Solids	N/A		Soil	89.59 Percent		89.6 Percent	1					2/20/18 14:30	N	IV
R1801384-009	Total Solids	N/A		Soil	90.01 Percent		90.0 Percent	1					2/20/18 14:30	N	IV
RQ1801527-02	Total Solids	DUP	R1801384-009	Soil	89.58 Percent		89.6 Percent	1				<1	2/20/18 14:30	N	IV
R1801384-010	Total Solids	N/A		Soil	89.47 Percent		89.5 Percent	1					2/20/18 14:30	N	IV
R1801384-011	Total Solids	N/A		Soil	88.92 Percent		88.9 Percent	1					2/20/18 14:30	N	IV
R1801384-012	Total Solids	N/A		Soil	81.86 Percent		81.9 Percent	1					2/20/18 14:30	N	IV
R1801384-013	Total Solids	N/A		Soil	84.80 Percent		84.8 Percent	1					2/20/18 14:30	N	IV
R1801384-014	Total Solids	N/A		Soil	89.87 Percent		89.9 Percent	1					2/20/18 14:30	N	IV
R1801384-015	Total Solids	N/A		Soil	78.15 Percent		78.1 Percent	1					2/20/18 14:30	N	IV
R1801223-005	Total Solids	N/A		Soil	80.41 Percent		80.4 Percent	1					2/20/18 14:30	N	IV
R1801223-006	Total Solids	N/A		Soil	84.00 Percent		84.0 Percent	1					2/20/18 14:30	N	IV
R1801223-007	Total Solids	N/A		Soil	79.27 Percent		79.3 Percent	1					2/20/18 14:30	N	IV
R1801223-008	Total Solids	N/A		Soil	82.13 Percent		82.1 Percent	1					2/20/18 14:30	N	IV
R1801223-009	Total Solids	N/A		Soil	81.79 Percent		81.8 Percent	1					2/20/18 14:30	N	IV
R1801223-010	Total Solids	N/A		Soil	86.10 Percent		86.1 Percent	1					2/20/18 14:30	N	IV
R1801223-011	Total Solids	N/A		Soil	88.24 Percent		88.2 Percent	1					2/20/18 14:30	N	IV
R1801223-012	Total Solids	N/A		Soil	80.81 Percent		80.8 Percent	1					2/20/18 14:30	N	IV
R1801223-013	Total Solids	N/A		Soil	84.75 Percent		84.7 Percent	1					2/20/18 14:30	N	IV
R1801223-014	Total Solids	N/A		Soil	85.61 Percent		85.6 Percent	1					2/20/18 14:30	N	IV
R1801223-015	Total Solids	N/A		Soil	81.81 Percent		81.8 Percent	1					2/20/18 14:30	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst:         KM         Date:     2/20/18      
 Pipet:         NA         Time:     14:30      
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID         R-BALANCE-17         Oven ID     MET      
 Class 1 Weight Initial:     10.00     Final:     10.00    

**% Volatile Solids:**

$$\% VS = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% Solid = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
1	MB	1	B) 2.5700	Dry wgt (A): 2.5500		1.00
			C)	550 wgt (D):		
2	R1801334-001	2	B) 2.5900	Dry wgt (A): 11.4000		82.80
			C) 13.2300	550 wgt (D):		
3	R1801334-001 DUP	3	B) 2.6100	Dry wgt (A): 11.1800		84.94
			C) 12.7000	550 wgt (D):		
4	R1801334-002	4	B) 2.5500	Dry wgt (A): 9.3000		63.86
			C) 13.1200	550 wgt (D):		
5	R1801334-003	5	B) 2.5800	Dry wgt (A): 11.7800		90.55
			C) 12.7400	550 wgt (D):		
6	R1801334-004	6	B) 2.5600	Dry wgt (A): 9.7600		66.85
			C) 13.3300	550 wgt (D):		
7	R1801334-005	7	B) 2.5600	Dry wgt (A): 11.4300		79.20
			C) 13.7600	550 wgt (D):		
8	R1801334-006	8	B) 2.5600	Dry wgt (A): 11.2500		85.95
			C) 12.6700	550 wgt (D):		
9	R1801334-007	9	B) 2.5600	Dry wgt (A): 12.4000		77.97
			C) 15.1800	550 wgt (D):		
10	R1801334-008	10	B) 2.5900	Dry wgt (A): 11.0400		83.42
			C) 12.7200	550 wgt (D):		
11	R1801334-009	11	B) 2.5600	Dry wgt (A): 11.0100		82.92
			C) 12.7500	550 wgt (D):		
12	R1801334-010	12	B) 2.5700	Dry wgt (A): 12.3300		88.25
			C) 13.6300	550 wgt (D):		
13	R1801334-011	13	B) 2.5700	Dry wgt (A): 12.1700		95.52
			C) 12.6200	550 wgt (D):		
14	R1801334-012	14	B) 2.5600	Dry wgt (A): 11.5800		81.12
			C) 13.6800	550 wgt (D):		
15	R1801334-013	15	B) 2.5700	Dry wgt (A): 12.2800		91.00
			C) 13.2400	550 wgt (D):		
16	R1801334-014	16	B) 2.5700	Dry wgt (A): 12.1100		88.66
			C) 13.3300	550 wgt (D):		
17	R1801334-014 DUP	17	B) 2.5600	Dry wgt (A): 11.8800		86.94
			C) 13.2800	550 wgt (D):		
18	R1801384-001	18	B) 2.5700	Dry wgt (A): 12.5000		89.70
			C) 13.6400	550 wgt (D):		
19	R1801384-002	19	B) 2.5600	Dry wgt (A): 12.8700		90.28
			C) 13.9800	550 wgt (D):		
20	R1801384-003	20	B) 2.5700	Dry wgt (A): 11.8300		86.54
			C) 13.2700	550 wgt (D):		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst:         KM         Date:     2/20/18      
 Pipet:         NA         Time:     14:30      
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID         R-BALANCE-17         Oven ID     MET      
 Class 1 Weight Initial:     10.00     Final:     10.00    

**% Volatile Solids:**

$$\% VS = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% Solid = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
21	R1801384-004	21	B) 2.5900	Dry wgt (A): 12.3000		85.55
			C) 13.9400	550 wgt (D):		
22	R1801384-005	22	B) 2.5600	Dry wgt (A): 11.9800		86.82
			C) 13.4100	550 wgt (D):		
23	R1801384-006	23	B) 2.5900	Dry wgt (A): 12.2700		90.13
			C) 13.3300	550 wgt (D):		
24	MB	24	B) 2.5900	Dry wgt (A): 2.5700		1.00
			C)	550 wgt (D):		
25	R1801384-007	25	B) 2.5800	Dry wgt (A): 11.6000		89.40
			C) 12.6700	550 wgt (D):		
26	R1801384-007 DUP	26	B) 2.6500	Dry wgt (A): 12.4900		88.97
			C) 13.7100	550 wgt (D):		
27	R1801384-008	27	B) 2.6200	Dry wgt (A): 12.6900		89.59
			C) 13.8600	550 wgt (D):		
28	R1801384-009	28	B) 2.6900	Dry wgt (A): 12.6900		90.01
			C) 13.8000	550 wgt (D):		
29	R1801384-009 DUP	29	B) 2.6800	Dry wgt (A): 12.1400		89.58
			C) 13.2400	550 wgt (D):		
30	R1801384-010	30	B) 2.5500	Dry wgt (A): 12.3200		89.47
			C) 13.4700	550 wgt (D):		
31	R1801384-011	31	B) 2.5300	Dry wgt (A): 11.9200		88.92
			C) 13.0900	550 wgt (D):		
32	R1801384-012	32	B) 2.5600	Dry wgt (A): 11.5400		81.86
			C) 13.5300	550 wgt (D):		
33	R1801384-013	33	B) 2.6100	Dry wgt (A): 11.3100		84.80
			C) 12.8700	550 wgt (D):		
34	R1801384-014	34	B) 2.5300	Dry wgt (A): 12.5500		89.87
			C) 13.6800	550 wgt (D):		
35	R1801384-015	35	B) 2.5800	Dry wgt (A): 11.4500		78.15
			C) 13.9300	550 wgt (D):		
36	R1801223-005	36	B) 2.5800	Dry wgt (A): 11.2800		80.41
			C) 13.4000	550 wgt (D):		
37	R1801223-006	37	B) 2.5700	Dry wgt (A): 12.2300		84.00
			C) 14.0700	550 wgt (D):		
38	R1801223-007	38	B) 2.5900	Dry wgt (A): 10.5800		79.27
			C) 12.6700	550 wgt (D):		
39	R1801223-008	39	B) 2.6100	Dry wgt (A): 11.5700		82.13
			C) 13.5200	550 wgt (D):		
40	R1801223-009	40	B) 2.6400	Dry wgt (A): 11.1300		81.79
			C) 13.0200	550 wgt (D):		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst:         KM          
 Pipet:         NA        

Date:     2/20/18      
 Time:     14:30    

Thermolyne F48025-6048000 Muffle Furnace

Balance ID         R-BALANCE-17        

Oven ID         MET        

Class 1 Weight Initial:     10.00    

Final:     10.00    

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
41	R1801223-010	41	B) 2.6500	Dry wgt (A): 12.0000		86.10
			C) 13.5100	550 wgt (D):		
42	R1801223-011	42	B) 2.5900	Dry wgt (A): 11.2900		88.24
			C) 12.4500	550 wgt (D):		
43	R1801223-012	43	B) 2.5600	Dry wgt (A): 10.9800		80.81
			C) 12.9800	550 wgt (D):		
44	R1801223-013	44	B) 2.5800	Dry wgt (A): 12.5800		84.75
			C) 14.3800	550 wgt (D):		
45	R1801223-014	45	B) 2.5600	Dry wgt (A): 11.6600		85.61
			C) 13.1900	550 wgt (D):		
46	R1801223-015	46	B) 2.5500	Dry wgt (A): 13.7500		81.81
			C) 16.2400	550 wgt (D):		





March 12, 2018

Service Request No:R1801453

Mr. Jeff Danzinger  
Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Mr.Danzinger,

Enclosed are the results of the sample(s) submitted to our laboratory February 19, 2018  
For your reference, these analyses have been assigned our service request number **R1801453**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

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TP-08 (5.5) - GenChem	1627
TP-09 (7.0) - GenChem	1628
TP-10 (5.0) - GenChem	1629
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# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)





**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Received:** 02/19/2018

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Nineteen soil samples were received for analysis at ALS Environmental on 02/19/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Semivolatiles by GC/MS:

Method 8270D, 02/27/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 02/22/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, R1801453-001,-010,-011,-012,-013,-017: Sample(s) required dilution due to the dark, oily nature of the extract. The reporting limits are adjusted to reflect the dilution.

#### Semivolatile GC:

Method 8081B, 02/23/2018: The matrix spike recovery of one or more of the spiked analytes was outside of control limits because of sample heterogeneity. The sample contained a background concentration of the analyte such that sample heterogeneity significantly affected the spike recovery calculation. No further corrective action was required. Method 8081B, 581710: The Method Reporting Limit (MRL) was elevated due to dark color of the sample extract.

Method 8081B, 02/23/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

#### Metals:

No significant anomalies were noted with this analysis.

#### General Chemistry:

No significant anomalies were noted with this analysis.

#### Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by 

Date 03/12/2018



Approved by *Brendy Kruller*

Date 03/12/2018



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801453-001	TP-01 (3.0-4.0)	2/15/2018	0909
R1801453-002	TP-02 (4.0)	2/15/2018	1015
R1801453-003	TP-02 (10.0)	2/15/2018	1028
R1801453-004	TP-04 (6.0-7.0)	2/15/2018	1130
R1801453-005	TP-05 (6.0)	2/15/2018	1148
R1801453-006	TP-06 (5.5)	2/15/2018	1212
R1801453-007	TP-06 (9.0)	2/15/2018	1224
R1801453-008	TP-07 (4.0)	2/15/2018	1250
R1801453-009	TP-08 (5.5)	2/15/2018	1315
R1801453-010	TP-09 (7.0)	2/15/2018	1400
R1801453-011	TP-10 (5.0)	2/15/2018	1440
R1801453-012	TP-12 (5.0)	2/15/2018	1605
R1801453-013	TP-13 (1.0-2.0)	2/16/2018	0835
R1801453-014	TP-13 (7.0)	2/16/2018	0840
R1801453-015	TP-14 (3.5)	2/16/2018	0920
R1801453-016	TP-17 (4.0)	2/16/2018	1100
R1801453-017	TP-19 (3.0-4.0)	2/16/2018	1228
R1801453-018	TP-20 (9.0)	2/16/2018	1305
R1801453-019	TP-22 (4.0-5.0)	2/16/2018	1420



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

# 49624

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 3

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-18</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE																			
Company/Address <b>Day Environmental, Inc.</b>				NUMBER OF CONTAINERS GC/MS VOAs <del>8260</del> • 624 • CLP GC/MS SVOAs <del>8270</del> • 825 GC VOAs • 8021 • 601/602 PESTICIDES <del>8081</del> • 608 PCBs <del>8082</del> • 608 METALS, TOTAL (List in comments below) <b>RCRA</b> METALS, DISSOLVED (List in comments below) <b>Cyanide 9012</b>																			
1563 Lyell Avenue																							
Rochester, NY 14606																							
Phone # <b>585-454-0210</b>		Email <b>jdanzinger@daymail.net</b>																					
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Sean Coose</b>		PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____																			
REMARKS/ ALTERNATE DESCRIPTION																							
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB II	SAMPLING DATE TIME		MATRIX																			
TP-01 (3.0-4.0)		2/15/18	9:09	Soil	2	X																	
TP-02 (4.0)		2/15/18	10:15	Soil	2	X																	
TP-02 (10.0)		2/15/18	10:28	Soil	2	X																	
TP-04 (6.0-7.0)		2/15/18	11:30	Soil	2			X				X					also do MS/MSD						
TP-05 (6.0)		2/15/18	11:48	Soil	2	X						X											
TP-06 (5.5)		2/15/18	12:12	Soil	2	X						X											
TP-06 (9.0)		2/15/18	12:24	Soil	2	X						X											
TP-07 (4.0)		2/15/18	12:50	Soil	6	X	X					X											
TP-08 (5.5)		2/15/18	13:15	Soil	6	X	X					X											
TP-09 (7.0)		2/15/18	14:00	Soil	2	X						X											
TP-10 (5.0)		2/15/18	14:40	Soil	6	X	X					X											
SPECIAL INSTRUCTIONS/COMMENTS Metals <b>RCRA B</b>  Combine multi-day drop-off of samples for this project into a single report to extent possible					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY)  1 day _____ 2 day _____ 3 day _____ 4 day _____ <u>5 day</u> _____  REQUESTED REPORT DATE <u>15 day</u>					REPORT REQUIREMENTS I. Results Only _____ <u>X</u> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries _____ <u>X</u> IV. Data Validation Report with Raw Data  NYSDEL Equiv Excl Edata <u>X</u> Yes _____ No _____					INVOICE INFORMATION See 1/24/18 quote from Christina Custard PO # <b>54645-18</b> BILL TO:								
See QAPP <input type="checkbox"/>																							
STATE WHERE SAMPLES WERE COLLECTED																							
RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY			
Signature <i>[Signature]</i>				Signature <b>B. Bove</b>				Signature				Signature				Signature				Signature			
Printed Name <b>Heather McManis</b>				Printed Name <b>B. Bove</b>				Printed Name				Printed Name				Printed Name				Printed Name			
Firm <b>Day Environmental</b>				Firm <b>ALS Env</b>				Firm				Firm				Firm				Firm			
Date/Time <b>2/19/18 15:59</b>				Date/Time <b>2/19/18 15:59</b>				Date/Time				Date/Time				Date/Time				Date/Time			
<div style="float: right; text-align: right;"> <b>R1801453</b>  <b>5</b>            Day Environmental, Incorporated            Bulls Head North, Rochester, NY  </div>																							







# Cooler Receipt and Preservation Check Form

R1801453

5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day Folder Number R18-1453

Cooler received on 2/20/18 by: e

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N <input type="radio"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="radio"/> N <input type="radio"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="radio"/> N <input type="radio"/>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="radio"/> N <input type="radio"/>

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore <u>5035set</u> NA	

8. Temperature Readings Date: 2/20/18 Time: 0850 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.2</u>	<u>2.7</u>					
Correction Factor (°C)	<u>+1.0</u>	<u>-</u>					
Corrected Temp (°C)	<u>5.2</u>	<u>2.7</u>					
Temp from: Type of bottle	<u>cont. blank</u>	<u>-</u>					
Within 0-6°C?	Y <input checked="" type="radio"/> N <input type="radio"/>	Y <input checked="" type="radio"/> N <input type="radio"/>	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by e on 2/20/18 at 0855  
5035 samples placed in storage location: F-09 by e on 2/20/18 at 0900

Cooler Breakdown: Date: 2/20/18 Time: 1658 by: slw

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 091817-152  
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: slw  
PC Secondary Review: slw 2/20/18 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1801453-001.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-001.02</b>	ALS SOP,8270D	2/20/2018	1700	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-002.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-002.02</b>	ALS SOP,8270D	2/20/2018	1700	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-003.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-003.02</b>	ALS SOP,8270D	2/20/2018	1700	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-004.01</b>	8081B	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	0743	In Lab / DMURPHY	
		2/21/2018	0832	R-002 / DMURPHY	
<b>R1801453-004.02</b>	ALS SOP,9012B	2/20/2018	1701	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-005.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-005.02</b>	ALS SOP,8270D	2/20/2018	1702	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-006.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-006.02</b>	ALS SOP,8270D	2/20/2018	1702	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-007.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-007.02</b>	ALS SOP,8270D	2/20/2018	1702	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-008.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-008.02</b>	8260C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/22/2018	1508	In Lab / KRUEST	
		2/22/2018	1723	F-09 / KRUEST	
<b>R1801453-008.03</b>		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1801453-008.04</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-008.05</b>					
	8270D				
		2/20/2018	1704	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-008.06</b>					
	ALS SOP				
		2/20/2018	1706	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-009.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-009.02</b>					
	8260C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/22/2018	1508	In Lab / KRUEST	
		2/22/2018	1723	F-09 / KRUEST	
<b>R1801453-009.03</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-009.04</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-009.05</b>					
	8270D				
		2/20/2018	1704	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-009.06</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	ALS SOP				
		2/20/2018	1706	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-010.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-010.02</b>					
	ALS SOP,8270D				
		2/20/2018	1704	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-011.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-011.02</b>					
	8260C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/22/2018	1508	In Lab / KRUEST	
		2/22/2018	1724	F-09 / KRUEST	
<b>R1801453-011.03</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-011.04</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-011.05</b>					
	8270D				
		2/20/2018	1704	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-011.06</b>					
	ALS SOP				
		2/20/2018	1706	SMO / GLAFORCE	

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	ALS SOP				
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-012.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-012.02</b>					
	8260C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/22/2018	1508	In Lab / KRUEST	
		2/22/2018	1724	F-09 / KRUEST	
<b>R1801453-012.03</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-012.04</b>					
		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-012.05</b>					
	8081B,8270D,9012B				
		2/20/2018	1704	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	0743	In Lab / DMURPHY	
		2/21/2018	0832	R-002 / DMURPHY	
<b>R1801453-012.06</b>					
	ALS SOP				
		2/20/2018	1706	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-013.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-013.02</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	ALS SOP,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-014.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-014.02</b>	ALS SOP,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-015.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-015.02</b>	ALS SOP,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-016.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-016.02</b>	ALS SOP,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-017.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1434	In Lab / NMANSEN	
<b>R1801453-017.02</b>	ALS SOP,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-018.01</b>					

ALS Group USA, Corp.  
dba ALS Environmental

Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1435	In Lab / NMANSEN	
<b>R1801453-018.02</b>	ALS SOP,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
<b>R1801453-019.01</b>	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	1435	In Lab / NMANSEN	
<b>R1801453-019.02</b>	8260C,8260C	2/20/2018	1659	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/22/2018	1508	In Lab / KRUEST	
		2/22/2018	1724	F-09 / KRUEST	
<b>R1801453-019.03</b>		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
<b>R1801453-019.04</b>		2/20/2018	1703	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/20/2018	1706	F-09 / GLAFORCE	
		2/23/2018	1258	In Lab / KRUEST	
<b>R1801453-019.05</b>	8082A,8270D	2/20/2018	1705	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	
		2/21/2018	0743	In Lab / DMURPHY	
		2/21/2018	0832	R-002 / DMURPHY	
<b>R1801453-019.06</b>	ALS SOP	2/20/2018	1706	SMO / GLAFORCE	
		2/20/2018	1706	R-002 / GLAFORCE	



## Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**

8081B

**Extracted/Digested By**

DMURPHY

**Analyzed By**

MPEDRO

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
9012B  
ALS SOP

**Extracted/Digested By**  
MROGERSON

**Analyzed By**  
MROGERSON  
KWONG

**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8270D

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
JMISIUREWICZ

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
KWONG

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8260C  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
KRUEST  
JMISIUREWICZ  
KWONG

---

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8260C  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
KRUEST  
JMISIUREWICZ  
KWONG

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**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B

**Extracted/Digested By**  
NMANSEN  
NMANSEN

**Analyzed By**  
NMANSEN  
NMANSEN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
8270D  
ALS SOP

**Extracted/Digested By**  
DMURPHY

**Analyzed By**  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8260C  
8270D  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**  
NMANSEN  
NMANSEN  
KRUEST  
JMISIUREWICZ  
KWONG

---

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7471B  
8081B  
8260C  
8270D  
9012B  
ALS SOP

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
DMURPHY  
DMURPHY  
MROGERSON

**Analyzed By**  
NMANSEN  
NMANSEN  
MPEDRO  
KRUEST  
JMISIUREWICZ  
MROGERSON  
KWONG

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ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C

**Extracted/Digested By**

NMANSEN

**Analyzed By**

NMANSEN



ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
DMURPHY

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B

**Extracted/Digested By**

NMANSEN  
NMANSEN

**Analyzed By**

NMANSEN  
NMANSEN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8082A	DMURPHY	MPEDRO
8260C		KRUEST
8270D	DMURPHY	JMISIUREWICZ
ALS SOP		KWONG



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.0 U	4.0	0.59	.67	02/22/18 22:02	
1,1,2,2-Tetrachloroethane	4.0 U	4.0	0.66	.67	02/22/18 22:02	
1,1,2-Trichloroethane	4.0 U	4.0	0.59	.67	02/22/18 22:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0 U	4.0	1.1	.67	02/22/18 22:02	
1,1-Dichloroethane (1,1-DCA)	4.0 U	4.0	1.1	.67	02/22/18 22:02	
1,1-Dichloroethene (1,1-DCE)	4.0 U	4.0	1.1	.67	02/22/18 22:02	
1,2,3-Trichlorobenzene	4.0 U	4.0	0.51	.67	02/22/18 22:02	
1,2,4-Trichlorobenzene	4.0 U	4.0	0.48	.67	02/22/18 22:02	
1,2,4-Trimethylbenzene	4.0 U	4.0	0.44	.67	02/22/18 22:02	
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	4.0	1.6	.67	02/22/18 22:02	
1,2-Dibromoethane	4.0 U	4.0	0.98	.67	02/22/18 22:02	
1,2-Dichlorobenzene	4.0 U	4.0	0.50	.67	02/22/18 22:02	
1,2-Dichloroethane	4.0 U	4.0	0.50	.67	02/22/18 22:02	
1,2-Dichloropropane	4.0 U	4.0	0.79	.67	02/22/18 22:02	
1,3,5-Trimethylbenzene	4.0 U	4.0	0.64	.67	02/22/18 22:02	
1,3-Dichlorobenzene	4.0 U	4.0	0.51	.67	02/22/18 22:02	
1,4-Dichlorobenzene	4.0 U	4.0	0.46	.67	02/22/18 22:02	
1,4-Dioxane	81 U	81	16	.67	02/22/18 22:02	
2-Butanone (MEK)	<b>12</b>	4.0	1.9	.67	02/22/18 22:02	
2-Hexanone	4.0 U	4.0	0.98	.67	02/22/18 22:02	
4-Isopropyltoluene	4.0 U	4.0	0.71	.67	02/22/18 22:02	
4-Methyl-2-pentanone	4.0 U	4.0	0.80	.67	02/22/18 22:02	
Acetone	<b>42 B</b>	4.0	2.3	.67	02/22/18 22:02	
Benzene	4.0 U	4.0	0.24	.67	02/22/18 22:02	
Bromochloromethane	4.0 U	4.0	1.1	.67	02/22/18 22:02	
Bromodichloromethane	4.0 U	4.0	0.50	.67	02/22/18 22:02	
Bromoform	4.0 U	4.0	0.76	.67	02/22/18 22:02	
Bromomethane	4.0 U	4.0	1.2	.67	02/22/18 22:02	
Carbon Disulfide	4.0 U	4.0	1.1	.67	02/22/18 22:02	
Carbon Tetrachloride	4.0 U	4.0	0.75	.67	02/22/18 22:02	
Chlorobenzene	4.0 U	4.0	0.24	.67	02/22/18 22:02	
Chloroethane	4.0 U	4.0	2.4	.67	02/22/18 22:02	
Chloroform	4.0 U	4.0	1.1	.67	02/22/18 22:02	
Chloromethane	4.0 U	4.0	0.33	.67	02/22/18 22:02	
Cyclohexane	4.0 U	4.0	1.2	.67	02/22/18 22:02	
Dibromochloromethane	4.0 U	4.0	0.59	.67	02/22/18 22:02	
Dichlorodifluoromethane (CFC 12)	4.0 U	4.0	1.6	.67	02/22/18 22:02	
Dichloromethane	4.0 U	4.0	0.47	.67	02/22/18 22:02	
Ethylbenzene	4.0 U	4.0	0.19	.67	02/22/18 22:02	
Isopropylbenzene (Cumene)	4.0 U	4.0	0.55	.67	02/22/18 22:02	
Methyl Acetate	4.0 U	4.0	1.5	.67	02/22/18 22:02	
Methyl tert-Butyl Ether	4.0 U	4.0	0.76	.67	02/22/18 22:02	
Methylcyclohexane	4.0 U	4.0	0.97	.67	02/22/18 22:02	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.0 U	4.0	0.25	.67	02/22/18 22:02	
Tetrachloroethene (PCE)	4.0 U	4.0	0.72	.67	02/22/18 22:02	
Toluene	4.0 U	4.0	0.81	.67	02/22/18 22:02	
Trichloroethene (TCE)	4.0 U	4.0	0.82	.67	02/22/18 22:02	
Trichlorofluoromethane (CFC 11)	4.0 U	4.0	0.54	.67	02/22/18 22:02	
Vinyl Chloride	4.0 U	4.0	1.5	.67	02/22/18 22:02	
cis-1,2-Dichloroethene	4.0 U	4.0	0.77	.67	02/22/18 22:02	
cis-1,3-Dichloropropene	4.0 U	4.0	0.73	.67	02/22/18 22:02	
m,p-Xylenes	8.1 U	8.1	0.89	.67	02/22/18 22:02	
n-Butylbenzene	4.0 U	4.0	0.80	.67	02/22/18 22:02	
n-Propylbenzene	4.0 U	4.0	0.64	.67	02/22/18 22:02	
o-Xylene	4.0 U	4.0	0.39	.67	02/22/18 22:02	
sec-Butylbenzene	4.0 U	4.0	0.59	.67	02/22/18 22:02	
tert-Butylbenzene	4.0 U	4.0	0.47	.67	02/22/18 22:02	
trans-1,2-Dichloroethene	4.0 U	4.0	0.70	.67	02/22/18 22:02	
trans-1,3-Dichloropropene	4.0 U	4.0	0.17	.67	02/22/18 22:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	51 - 136	02/22/18 22:02	
Dibromofluoromethane	98	63 - 138	02/22/18 22:02	
Toluene-d8	99	66 - 138	02/22/18 22:02	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.9 U	3.9	0.57	.69	02/22/18 22:26	
1,1,2,2-Tetrachloroethane	3.9 U	3.9	0.64	.69	02/22/18 22:26	
1,1,2-Trichloroethane	3.9 U	3.9	0.57	.69	02/22/18 22:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.9 U	3.9	0.97	.69	02/22/18 22:26	
1,1-Dichloroethane (1,1-DCA)	3.9 U	3.9	0.98	.69	02/22/18 22:26	
1,1-Dichloroethene (1,1-DCE)	3.9 U	3.9	1.0	.69	02/22/18 22:26	
1,2,3-Trichlorobenzene	3.9 U	3.9	0.49	.69	02/22/18 22:26	
1,2,4-Trichlorobenzene	3.9 U	3.9	0.46	.69	02/22/18 22:26	
1,2,4-Trimethylbenzene	<b>1.3 J</b>	3.9	0.43	.69	02/22/18 22:26	
1,2-Dibromo-3-chloropropane (DBCP)	3.9 U	3.9	1.5	.69	02/22/18 22:26	
1,2-Dibromoethane	3.9 U	3.9	0.95	.69	02/22/18 22:26	
1,2-Dichlorobenzene	3.9 U	3.9	0.48	.69	02/22/18 22:26	
1,2-Dichloroethane	3.9 U	3.9	0.48	.69	02/22/18 22:26	
1,2-Dichloropropane	3.9 U	3.9	0.76	.69	02/22/18 22:26	
1,3,5-Trimethylbenzene	<b>0.63 J</b>	3.9	0.62	.69	02/22/18 22:26	
1,3-Dichlorobenzene	3.9 U	3.9	0.50	.69	02/22/18 22:26	
1,4-Dichlorobenzene	3.9 U	3.9	0.44	.69	02/22/18 22:26	
1,4-Dioxane	78 U	78	15	.69	02/22/18 22:26	
2-Butanone (MEK)	<b>7.1</b>	3.9	1.8	.69	02/22/18 22:26	
2-Hexanone	3.9 U	3.9	0.95	.69	02/22/18 22:26	
4-Isopropyltoluene	3.9 U	3.9	0.68	.69	02/22/18 22:26	
4-Methyl-2-pentanone	3.9 U	3.9	0.77	.69	02/22/18 22:26	
Acetone	<b>33 B</b>	3.9	2.2	.69	02/22/18 22:26	
Benzene	<b>3.4 J</b>	3.9	0.23	.69	02/22/18 22:26	
Bromochloromethane	3.9 U	3.9	1.1	.69	02/22/18 22:26	
Bromodichloromethane	3.9 U	3.9	0.48	.69	02/22/18 22:26	
Bromoform	3.9 U	3.9	0.73	.69	02/22/18 22:26	
Bromomethane	3.9 U	3.9	1.1	.69	02/22/18 22:26	
Carbon Disulfide	<b>1.5 J</b>	3.9	0.97	.69	02/22/18 22:26	
Carbon Tetrachloride	3.9 U	3.9	0.72	.69	02/22/18 22:26	
Chlorobenzene	3.9 U	3.9	0.23	.69	02/22/18 22:26	
Chloroethane	3.9 U	3.9	2.3	.69	02/22/18 22:26	
Chloroform	3.9 U	3.9	0.99	.69	02/22/18 22:26	
Chloromethane	3.9 U	3.9	0.32	.69	02/22/18 22:26	
Cyclohexane	3.9 U	3.9	1.1	.69	02/22/18 22:26	
Dibromochloromethane	3.9 U	3.9	0.57	.69	02/22/18 22:26	
Dichlorodifluoromethane (CFC 12)	3.9 U	3.9	1.5	.69	02/22/18 22:26	
Dichloromethane	<b>0.61 J</b>	3.9	0.45	.69	02/22/18 22:26	
Ethylbenzene	<b>3.0 J</b>	3.9	0.18	.69	02/22/18 22:26	
Isopropylbenzene (Cumene)	<b>0.67 J</b>	3.9	0.53	.69	02/22/18 22:26	
Methyl Acetate	3.9 U	3.9	1.4	.69	02/22/18 22:26	
Methyl tert-Butyl Ether	3.9 U	3.9	0.74	.69	02/22/18 22:26	
Methylcyclohexane	3.9 U	3.9	0.94	.69	02/22/18 22:26	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	<b>2.5 J</b>	3.9	0.24	.69	02/22/18 22:26	
Tetrachloroethene (PCE)	3.9 U	3.9	0.69	.69	02/22/18 22:26	
Toluene	3.9 U	3.9	0.78	.69	02/22/18 22:26	
Trichloroethene (TCE)	<b>1.2 J</b>	3.9	0.79	.69	02/22/18 22:26	
Trichlorofluoromethane (CFC 11)	<b>0.59 J</b>	3.9	0.52	.69	02/22/18 22:26	
Vinyl Chloride	3.9 U	3.9	1.5	.69	02/22/18 22:26	
cis-1,2-Dichloroethene	3.9 U	3.9	0.74	.69	02/22/18 22:26	
cis-1,3-Dichloropropene	3.9 U	3.9	0.71	.69	02/22/18 22:26	
m,p-Xylenes	<b>2.0 J</b>	7.8	0.85	.69	02/22/18 22:26	
n-Butylbenzene	3.9 U	3.9	0.77	.69	02/22/18 22:26	
n-Propylbenzene	3.9 U	3.9	0.61	.69	02/22/18 22:26	
o-Xylene	<b>1.2 J</b>	3.9	0.38	.69	02/22/18 22:26	
sec-Butylbenzene	3.9 U	3.9	0.57	.69	02/22/18 22:26	
tert-Butylbenzene	3.9 U	3.9	0.46	.69	02/22/18 22:26	
trans-1,2-Dichloroethene	3.9 U	3.9	0.67	.69	02/22/18 22:26	
trans-1,3-Dichloropropene	3.9 U	3.9	0.16	.69	02/22/18 22:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	51 - 136	02/22/18 22:26	
Dibromofluoromethane	99	63 - 138	02/22/18 22:26	
Toluene-d8	101	66 - 138	02/22/18 22:26	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.1 U	6.1	0.89	1.01	02/22/18 22:49	
1,1,2,2-Tetrachloroethane	6.1 U	6.1	0.99	1.01	02/22/18 22:49	
1,1,2-Trichloroethane	6.1 U	6.1	0.89	1.01	02/22/18 22:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
1,1-Dichloroethane (1,1-DCA)	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
1,1-Dichloroethene (1,1-DCE)	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
1,2,3-Trichlorobenzene	6.1 U	6.1	0.76	1.01	02/22/18 22:49	
1,2,4-Trichlorobenzene	6.1 U	6.1	0.72	1.01	02/22/18 22:49	
1,2,4-Trimethylbenzene	6.1 U	6.1	0.66	1.01	02/22/18 22:49	
1,2-Dibromo-3-chloropropane (DBCP)	6.1 U	6.1	2.3	1.01	02/22/18 22:49	
1,2-Dibromoethane	6.1 U	6.1	1.5	1.01	02/22/18 22:49	
1,2-Dichlorobenzene	6.1 U	6.1	0.74	1.01	02/22/18 22:49	
1,2-Dichloroethane	6.1 U	6.1	0.74	1.01	02/22/18 22:49	
1,2-Dichloropropane	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
1,3,5-Trimethylbenzene	6.1 U	6.1	0.96	1.01	02/22/18 22:49	
1,3-Dichlorobenzene	6.1 U	6.1	0.77	1.01	02/22/18 22:49	
1,4-Dichlorobenzene	6.1 U	6.1	0.68	1.01	02/22/18 22:49	
1,4-Dioxane	120 U	120	24	1.01	02/22/18 22:49	
2-Butanone (MEK)	6.1 U	6.1	2.8	1.01	02/22/18 22:49	
2-Hexanone	6.1 U	6.1	1.5	1.01	02/22/18 22:49	
4-Isopropyltoluene	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
4-Methyl-2-pentanone	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Acetone	<b>4.3 BJ</b>	6.1	3.5	1.01	02/22/18 22:49	
Benzene	6.1 U	6.1	0.36	1.01	02/22/18 22:49	
Bromochloromethane	6.1 U	6.1	1.7	1.01	02/22/18 22:49	
Bromodichloromethane	6.1 U	6.1	0.74	1.01	02/22/18 22:49	
Bromoform	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Bromomethane	6.1 U	6.1	1.7	1.01	02/22/18 22:49	
Carbon Disulfide	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
Carbon Tetrachloride	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Chlorobenzene	6.1 U	6.1	0.36	1.01	02/22/18 22:49	
Chloroethane	6.1 U	6.1	3.5	1.01	02/22/18 22:49	
Chloroform	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
Chloromethane	6.1 U	6.1	0.49	1.01	02/22/18 22:49	
Cyclohexane	6.1 U	6.1	1.7	1.01	02/22/18 22:49	
Dibromochloromethane	6.1 U	6.1	0.89	1.01	02/22/18 22:49	
Dichlorodifluoromethane (CFC 12)	6.1 U	6.1	2.3	1.01	02/22/18 22:49	
Dichloromethane	<b>0.74 J</b>	6.1	0.70	1.01	02/22/18 22:49	
Ethylbenzene	6.1 U	6.1	0.28	1.01	02/22/18 22:49	
Isopropylbenzene (Cumene)	6.1 U	6.1	0.82	1.01	02/22/18 22:49	
Methyl Acetate	6.1 U	6.1	2.2	1.01	02/22/18 22:49	
Methyl tert-Butyl Ether	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Methylcyclohexane	6.1 U	6.1	1.5	1.01	02/22/18 22:49	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	6.1 U	6.1	0.37	1.01	02/22/18 22:49	
Tetrachloroethene (PCE)	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
Toluene	6.1 U	6.1	1.3	1.01	02/22/18 22:49	
Trichloroethene (TCE)	6.1 U	6.1	1.3	1.01	02/22/18 22:49	
Trichlorofluoromethane (CFC 11)	6.1 U	6.1	0.81	1.01	02/22/18 22:49	
Vinyl Chloride	6.1 U	6.1	2.3	1.01	02/22/18 22:49	
cis-1,2-Dichloroethene	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
cis-1,3-Dichloropropene	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
m,p-Xylenes	12 U	12	1.4	1.01	02/22/18 22:49	
n-Butylbenzene	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
n-Propylbenzene	6.1 U	6.1	0.95	1.01	02/22/18 22:49	
o-Xylene	6.1 U	6.1	0.59	1.01	02/22/18 22:49	
sec-Butylbenzene	6.1 U	6.1	0.88	1.01	02/22/18 22:49	
tert-Butylbenzene	6.1 U	6.1	0.71	1.01	02/22/18 22:49	
trans-1,2-Dichloroethene	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
trans-1,3-Dichloropropene	6.1 U	6.1	0.25	1.01	02/22/18 22:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	68	51 - 136	02/22/18 22:49	
Dibromofluoromethane	97	63 - 138	02/22/18 22:49	
Toluene-d8	97	66 - 138	02/22/18 22:49	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.6 U	4.6	0.67	.74	02/22/18 23:11	
1,1,2,2-Tetrachloroethane	4.6 U	4.6	0.74	.74	02/22/18 23:11	
1,1,2-Trichloroethane	4.6 U	4.6	0.67	.74	02/22/18 23:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,1-Dichloroethane (1,1-DCA)	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,1-Dichloroethene (1,1-DCE)	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,2,3-Trichlorobenzene	4.6 U	4.6	0.57	.74	02/22/18 23:11	
1,2,4-Trichlorobenzene	4.6 U	4.6	0.54	.74	02/22/18 23:11	
1,2,4-Trimethylbenzene	<b>6.5</b>	4.6	0.50	.74	02/22/18 23:11	
1,2-Dibromo-3-chloropropane (DBCP)	4.6 U	4.6	1.8	.74	02/22/18 23:11	
1,2-Dibromoethane	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,2-Dichlorobenzene	4.6 U	4.6	0.56	.74	02/22/18 23:11	
1,2-Dichloroethane	4.6 U	4.6	0.56	.74	02/22/18 23:11	
1,2-Dichloropropane	4.6 U	4.6	0.89	.74	02/22/18 23:11	
1,3,5-Trimethylbenzene	<b>2.1 J</b>	4.6	0.73	.74	02/22/18 23:11	
1,3-Dichlorobenzene	4.6 U	4.6	0.58	.74	02/22/18 23:11	
1,4-Dichlorobenzene	4.6 U	4.6	0.52	.74	02/22/18 23:11	
1,4-Dioxane	91 U	91	18	.74	02/22/18 23:11	
2-Butanone (MEK)	4.6 U	4.6	2.1	.74	02/22/18 23:11	
2-Hexanone	4.6 U	4.6	1.2	.74	02/22/18 23:11	
4-Isopropyltoluene	4.6 U	4.6	0.80	.74	02/22/18 23:11	
4-Methyl-2-pentanone	4.6 U	4.6	0.90	.74	02/22/18 23:11	
Acetone	<b>22 B</b>	4.6	2.6	.74	02/22/18 23:11	
Benzene	4.6 U	4.6	0.27	.74	02/22/18 23:11	
Bromochloromethane	4.6 U	4.6	1.3	.74	02/22/18 23:11	
Bromodichloromethane	4.6 U	4.6	0.56	.74	02/22/18 23:11	
Bromoform	4.6 U	4.6	0.85	.74	02/22/18 23:11	
Bromomethane	4.6 U	4.6	1.3	.74	02/22/18 23:11	
Carbon Disulfide	4.6 U	4.6	1.2	.74	02/22/18 23:11	
Carbon Tetrachloride	4.6 U	4.6	0.84	.74	02/22/18 23:11	
Chlorobenzene	4.6 U	4.6	0.27	.74	02/22/18 23:11	
Chloroethane	4.6 U	4.6	2.7	.74	02/22/18 23:11	
Chloroform	4.6 U	4.6	1.2	.74	02/22/18 23:11	
Chloromethane	4.6 U	4.6	0.37	.74	02/22/18 23:11	
Cyclohexane	4.6 U	4.6	1.3	.74	02/22/18 23:11	
Dibromochloromethane	4.6 U	4.6	0.67	.74	02/22/18 23:11	
Dichlorodifluoromethane (CFC 12)	4.6 U	4.6	1.8	.74	02/22/18 23:11	
Dichloromethane	4.6 U	4.6	0.53	.74	02/22/18 23:11	
Ethylbenzene	<b>0.38 J</b>	4.6	0.21	.74	02/22/18 23:11	
Isopropylbenzene (Cumene)	4.6 U	4.6	0.62	.74	02/22/18 23:11	
Methyl Acetate	4.6 U	4.6	1.6	.74	02/22/18 23:11	
Methyl tert-Butyl Ether	4.6 U	4.6	0.86	.74	02/22/18 23:11	
Methylcyclohexane	4.6 U	4.6	1.1	.74	02/22/18 23:11	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.6 U	4.6	0.28	.74	02/22/18 23:11	
Tetrachloroethene (PCE)	4.6 U	4.6	0.81	.74	02/22/18 23:11	
Toluene	4.6 U	4.6	0.92	.74	02/22/18 23:11	
Trichloroethene (TCE)	4.6 U	4.6	0.93	.74	02/22/18 23:11	
Trichlorofluoromethane (CFC 11)	4.6 U	4.6	0.61	.74	02/22/18 23:11	
Vinyl Chloride	4.6 U	4.6	1.7	.74	02/22/18 23:11	
cis-1,2-Dichloroethene	4.6 U	4.6	0.87	.74	02/22/18 23:11	
cis-1,3-Dichloropropene	4.6 U	4.6	0.83	.74	02/22/18 23:11	
m,p-Xylenes	<b>1.8 J</b>	9.1	1.0	.74	02/22/18 23:11	
n-Butylbenzene	4.6 U	4.6	0.90	.74	02/22/18 23:11	
n-Propylbenzene	4.6 U	4.6	0.72	.74	02/22/18 23:11	
o-Xylene	<b>1.0 J</b>	4.6	0.44	.74	02/22/18 23:11	
sec-Butylbenzene	4.6 U	4.6	0.66	.74	02/22/18 23:11	
tert-Butylbenzene	4.6 U	4.6	0.53	.74	02/22/18 23:11	
trans-1,2-Dichloroethene	4.6 U	4.6	0.79	.74	02/22/18 23:11	
trans-1,3-Dichloropropene	4.6 U	4.6	0.19	.74	02/22/18 23:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	51 - 136	02/22/18 23:11	
Dibromofluoromethane	96	63 - 138	02/22/18 23:11	
Toluene-d8	98	66 - 138	02/22/18 23:11	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.2 U	5.2	0.76	.84	02/22/18 23:34	
1,1,2,2-Tetrachloroethane	5.2 U	5.2	0.84	.84	02/22/18 23:34	
1,1,2-Trichloroethane	5.2 U	5.2	0.76	.84	02/22/18 23:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2 U	5.2	1.3	.84	02/22/18 23:34	
1,1-Dichloroethane (1,1-DCA)	5.2 U	5.2	1.3	.84	02/22/18 23:34	
1,1-Dichloroethene (1,1-DCE)	5.2 U	5.2	1.4	.84	02/22/18 23:34	
1,2,3-Trichlorobenzene	5.2 U	5.2	0.65	.84	02/22/18 23:34	
1,2,4-Trichlorobenzene	5.2 U	5.2	0.62	.84	02/22/18 23:34	
1,2,4-Trimethylbenzene	<b>880 E</b>	5.2	0.56	.84	02/22/18 23:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.2 U	5.2	2.0	.84	02/22/18 23:34	
1,2-Dibromoethane	5.2 U	5.2	1.3	.84	02/22/18 23:34	
1,2-Dichlorobenzene	5.2 U	5.2	0.64	.84	02/22/18 23:34	
1,2-Dichloroethane	5.2 U	5.2	0.64	.84	02/22/18 23:34	
1,2-Dichloropropane	5.2 U	5.2	1.1	.84	02/22/18 23:34	
1,3,5-Trimethylbenzene	5.2 U	5.2	0.82	.84	02/22/18 23:34	
1,3-Dichlorobenzene	5.2 U	5.2	0.66	.84	02/22/18 23:34	
1,4-Dichlorobenzene	5.2 U	5.2	0.59	.84	02/22/18 23:34	
1,4-Dioxane	100 U	100	20	.84	02/22/18 23:34	
2-Butanone (MEK)	<b>9.1</b>	5.2	2.4	.84	02/22/18 23:34	
2-Hexanone	5.2 U	5.2	1.3	.84	02/22/18 23:34	
4-Isopropyltoluene	<b>220 E</b>	5.2	0.91	.84	02/22/18 23:34	
4-Methyl-2-pentanone	5.2 U	5.2	1.1	.84	02/22/18 23:34	
Acetone	<b>34 B</b>	5.2	3.0	.84	02/22/18 23:34	
Benzene	<b>0.57 J</b>	5.2	0.31	.84	02/22/18 23:34	
Bromochloromethane	5.2 U	5.2	1.5	.84	02/22/18 23:34	
Bromodichloromethane	5.2 U	5.2	0.64	.84	02/22/18 23:34	
Bromoform	5.2 U	5.2	0.97	.84	02/22/18 23:34	
Bromomethane	5.2 U	5.2	1.5	.84	02/22/18 23:34	
Carbon Disulfide	<b>2.1 J</b>	5.2	1.3	.84	02/22/18 23:34	
Carbon Tetrachloride	5.2 U	5.2	0.96	.84	02/22/18 23:34	
Chlorobenzene	5.2 U	5.2	0.31	.84	02/22/18 23:34	
Chloroethane	5.2 U	5.2	3.0	.84	02/22/18 23:34	
Chloroform	5.2 U	5.2	1.4	.84	02/22/18 23:34	
Chloromethane	5.2 U	5.2	0.42	.84	02/22/18 23:34	
Cyclohexane	<b>2.6 J</b>	5.2	1.5	.84	02/22/18 23:34	
Dibromochloromethane	5.2 U	5.2	0.76	.84	02/22/18 23:34	
Dichlorodifluoromethane (CFC 12)	5.2 U	5.2	2.0	.84	02/22/18 23:34	
Dichloromethane	5.2 U	5.2	0.60	.84	02/22/18 23:34	
Ethylbenzene	<b>18</b>	5.2	0.24	.84	02/22/18 23:34	
Isopropylbenzene (Cumene)	<b>63</b>	5.2	0.70	.84	02/22/18 23:34	
Methyl Acetate	5.2 U	5.2	1.9	.84	02/22/18 23:34	
Methyl tert-Butyl Ether	5.2 U	5.2	0.98	.84	02/22/18 23:34	
Methylcyclohexane	<b>23</b>	5.2	1.3	.84	02/22/18 23:34	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.2 U	5.2	0.32	.84	02/22/18 23:34	
Tetrachloroethene (PCE)	5.2 U	5.2	0.92	.84	02/22/18 23:34	
Toluene	<b>2.9 J</b>	5.2	1.1	.84	02/22/18 23:34	
Trichloroethene (TCE)	5.2 U	5.2	1.1	.84	02/22/18 23:34	
Trichlorofluoromethane (CFC 11)	5.2 U	5.2	0.69	.84	02/22/18 23:34	
Vinyl Chloride	5.2 U	5.2	2.0	.84	02/22/18 23:34	
cis-1,2-Dichloroethene	5.2 U	5.2	0.99	.84	02/22/18 23:34	
cis-1,3-Dichloropropene	5.2 U	5.2	0.94	.84	02/22/18 23:34	
m,p-Xylenes	<b>23</b>	10	1.2	.84	02/22/18 23:34	
n-Butylbenzene	<b>170</b>	5.2	1.1	.84	02/22/18 23:34	
n-Propylbenzene	<b>84</b>	5.2	0.81	.84	02/22/18 23:34	
o-Xylene	<b>20</b>	5.2	0.50	.84	02/22/18 23:34	
sec-Butylbenzene	<b>150</b>	5.2	0.75	.84	02/22/18 23:34	
tert-Butylbenzene	5.2 U	5.2	0.61	.84	02/22/18 23:34	
trans-1,2-Dichloroethene	5.2 U	5.2	0.90	.84	02/22/18 23:34	
trans-1,3-Dichloropropene	5.2 U	5.2	0.21	.84	02/22/18 23:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	51 - 136	02/22/18 23:34	
Dibromofluoromethane	99	63 - 138	02/22/18 23:34	
Toluene-d8	97	66 - 138	02/22/18 23:34	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	500 U	500	74	81.5	02/23/18 14:32	
1,1,2,2-Tetrachloroethane	500 U	500	82	81.5	02/23/18 14:32	
1,1,2-Trichloroethane	500 U	500	74	81.5	02/23/18 14:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	500 U	500	130	81.5	02/23/18 14:32	
1,1-Dichloroethane (1,1-DCA)	500 U	500	130	81.5	02/23/18 14:32	
1,1-Dichloroethene (1,1-DCE)	500 U	500	130	81.5	02/23/18 14:32	
1,2,3-Trichlorobenzene	500 U	500	63	81.5	02/23/18 14:32	
1,2,4-Trichlorobenzene	500 U	500	60	81.5	02/23/18 14:32	
1,2,4-Trimethylbenzene	<b>5000 D</b>	500	55	81.5	02/23/18 14:32	
1,2-Dibromo-3-chloropropane (DBCP)	500 U	500	190	81.5	02/23/18 14:32	
1,2-Dibromoethane	500 U	500	130	81.5	02/23/18 14:32	
1,2-Dichlorobenzene	500 U	500	62	81.5	02/23/18 14:32	
1,2-Dichloroethane	500 U	500	62	81.5	02/23/18 14:32	
1,2-Dichloropropane	500 U	500	98	81.5	02/23/18 14:32	
1,3,5-Trimethylbenzene	<b>240 DJ</b>	500	80	81.5	02/23/18 14:32	
1,3-Dichlorobenzene	500 U	500	64	81.5	02/23/18 14:32	
1,4-Dichlorobenzene	500 U	500	57	81.5	02/23/18 14:32	
1,4-Dioxane	10000 U	10000	2000	81.5	02/23/18 14:32	
2-Butanone (MEK)	500 U	500	240	81.5	02/23/18 14:32	
2-Hexanone	500 U	500	130	81.5	02/23/18 14:32	
4-Isopropyltoluene	<b>780 D</b>	500	88	81.5	02/23/18 14:32	
4-Methyl-2-pentanone	500 U	500	99	81.5	02/23/18 14:32	
Acetone	<b>2100 D</b>	500	290	81.5	02/23/18 14:32	
Benzene	<b>30 DJ</b>	500	30	81.5	02/23/18 14:32	
Bromochloromethane	500 U	500	140	81.5	02/23/18 14:32	
Bromodichloromethane	500 U	500	62	81.5	02/23/18 14:32	
Bromoform	500 U	500	94	81.5	02/23/18 14:32	
Bromomethane	500 U	500	140	81.5	02/23/18 14:32	
Carbon Disulfide	500 U	500	130	81.5	02/23/18 14:32	
Carbon Tetrachloride	500 U	500	93	81.5	02/23/18 14:32	
Chlorobenzene	500 U	500	30	81.5	02/23/18 14:32	
Chloroethane	500 U	500	290	81.5	02/23/18 14:32	
Chloroform	500 U	500	130	81.5	02/23/18 14:32	
Chloromethane	<b>44 DJ</b>	500	41	81.5	02/23/18 14:32	
Cyclohexane	500 U	500	140	81.5	02/23/18 14:32	
Dibromochloromethane	500 U	500	74	81.5	02/23/18 14:32	
Dichlorodifluoromethane (CFC 12)	500 U	500	190	81.5	02/23/18 14:32	
Dichloromethane	500 U	500	58	81.5	02/23/18 14:32	
Ethylbenzene	<b>840 D</b>	500	24	81.5	02/23/18 14:32	
Isopropylbenzene (Cumene)	<b>220 DJ</b>	500	68	81.5	02/23/18 14:32	
Methyl Acetate	500 U	500	180	81.5	02/23/18 14:32	
Methyl tert-Butyl Ether	500 U	500	95	81.5	02/23/18 14:32	
Methylcyclohexane	500 U	500	130	81.5	02/23/18 14:32	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	500 U	500	31	81.5	02/23/18 14:32	
Tetrachloroethene (PCE)	500 U	500	89	81.5	02/23/18 14:32	
Toluene	<b>380 DJ</b>	500	110	81.5	02/23/18 14:32	
Trichloroethene (TCE)	500 U	500	110	81.5	02/23/18 14:32	
Trichlorofluoromethane (CFC 11)	500 U	500	67	81.5	02/23/18 14:32	
Vinyl Chloride	500 U	500	190	81.5	02/23/18 14:32	
cis-1,2-Dichloroethene	500 U	500	96	81.5	02/23/18 14:32	
cis-1,3-Dichloropropene	500 U	500	91	81.5	02/23/18 14:32	
m,p-Xylenes	<b>2900 D</b>	1000	110	81.5	02/23/18 14:32	
n-Butylbenzene	<b>1600 D</b>	500	99	81.5	02/23/18 14:32	
n-Propylbenzene	<b>890 D</b>	500	79	81.5	02/23/18 14:32	
o-Xylene	<b>750 D</b>	500	49	81.5	02/23/18 14:32	
sec-Butylbenzene	<b>510 D</b>	500	73	81.5	02/23/18 14:32	
tert-Butylbenzene	500 U	500	59	81.5	02/23/18 14:32	
trans-1,2-Dichloroethene	500 U	500	87	81.5	02/23/18 14:32	
trans-1,3-Dichloropropene	500 U	500	21	81.5	02/23/18 14:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	51 - 136	02/23/18 14:32	
Dibromofluoromethane	92	63 - 138	02/23/18 14:32	
Toluene-d8	101	66 - 138	02/23/18 14:32	



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
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ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 09:09  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1900 U	1900	560	5	02/22/18 16:23	2/22/18	
2,3,4,6-Tetrachlorophenol	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
2,4,5-Trichlorophenol	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
2,4,6-Trichlorophenol	1900 U	1900	500	5	02/22/18 16:23	2/22/18	
2,4-Dichlorophenol	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
2,4-Dimethylphenol	1900 U	1900	370	5	02/22/18 16:23	2/22/18	
2,4-Dinitrophenol	9900 U	9900	360	5	02/22/18 16:23	2/22/18	
2,4-Dinitrotoluene	1900 U	1900	510	5	02/22/18 16:23	2/22/18	
2,6-Dinitrotoluene	1900 U	1900	680	5	02/22/18 16:23	2/22/18	
2-Chloronaphthalene	1900 U	1900	430	5	02/22/18 16:23	2/22/18	
2-Chlorophenol	1900 U	1900	470	5	02/22/18 16:23	2/22/18	
2-Methylnaphthalene	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
2-Methylphenol	1900 U	1900	470	5	02/22/18 16:23	2/22/18	
2-Nitroaniline	9900 U	9900	560	5	02/22/18 16:23	2/22/18	
2-Nitrophenol	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
3,3'-Dichlorobenzidine	1900 U	1900	600	5	02/22/18 16:23	2/22/18	
3- and 4-Methylphenol Coelution	1900 U	1900	490	5	02/22/18 16:23	2/22/18	
3-Nitroaniline	9900 U	9900	420	5	02/22/18 16:23	2/22/18	
4,6-Dinitro-2-methylphenol	9900 U	9900	420	5	02/22/18 16:23	2/22/18	
4-Bromophenyl Phenyl Ether	1900 U	1900	550	5	02/22/18 16:23	2/22/18	
4-Chloro-3-methylphenol	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
4-Chloroaniline	1900 U	1900	230	5	02/22/18 16:23	2/22/18	
4-Chlorophenyl Phenyl Ether	1900 U	1900	460	5	02/22/18 16:23	2/22/18	
4-Nitroaniline	9900 U	9900	430	5	02/22/18 16:23	2/22/18	
4-Nitrophenol	9900 U	9900	1200	5	02/22/18 16:23	2/22/18	
Acenaphthene	1900 U	1900	430	5	02/22/18 16:23	2/22/18	
Acenaphthylene	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Acetophenone	1900 U	1900	450	5	02/22/18 16:23	2/22/18	
Anthracene	1900 U	1900	380	5	02/22/18 16:23	2/22/18	
Atrazine	1900 U	1900	520	5	02/22/18 16:23	2/22/18	
Benz(a)anthracene	<b>680 J</b>	1900	340	5	02/22/18 16:23	2/22/18	
Benzaldehyde	9900 U	9900	460	5	02/22/18 16:23	2/22/18	
Benzo(a)pyrene	<b>770 J</b>	1900	390	5	02/22/18 16:23	2/22/18	
Benzo(b)fluoranthene	<b>1100 J</b>	1900	360	5	02/22/18 16:23	2/22/18	
Benzo(g,h,i)perylene	<b>780 J</b>	1900	440	5	02/22/18 16:23	2/22/18	
Benzo(k)fluoranthene	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
Biphenyl	1900 U	1900	450	5	02/22/18 16:23	2/22/18	
2,2'-Oxybis(1-chloropropane)	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
Bis(2-chloroethoxy)methane	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
Bis(2-chloroethyl) Ether	1900 U	1900	350	5	02/22/18 16:23	2/22/18	
Bis(2-ethylhexyl) Phthalate	2900 U	2900	2700	5	02/22/18 16:23	2/22/18	
Butyl Benzyl Phthalate	1900 U	1900	370	5	02/22/18 16:23	2/22/18	
Caprolactam	1900 U	1900	430	5	02/22/18 16:23	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 09:09  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
Chrysene	<b>920 J</b>	1900	380	5	02/22/18 16:23	2/22/18	
Di-n-butyl Phthalate	1900 U	1900	650	5	02/22/18 16:23	2/22/18	
Di-n-octyl Phthalate	1900 U	1900	580	5	02/22/18 16:23	2/22/18	
Dibenz(a,h)anthracene	1900 U	1900	350	5	02/22/18 16:23	2/22/18	
Dibenzofuran	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Diethyl Phthalate	1900 U	1900	1100	5	02/22/18 16:23	2/22/18	
Dimethyl Phthalate	1900 U	1900	530	5	02/22/18 16:23	2/22/18	
Fluoranthene	<b>1900</b>	1900	460	5	02/22/18 16:23	2/22/18	
Fluorene	1900 U	1900	490	5	02/22/18 16:23	2/22/18	
Hexachlorobenzene	1900 U	1900	450	5	02/22/18 16:23	2/22/18	
Hexachlorobutadiene	1900 U	1900	330	5	02/22/18 16:23	2/22/18	
Hexachlorocyclopentadiene	1900 U	1900	320	5	02/22/18 16:23	2/22/18	
Hexachloroethane	1900 U	1900	340	5	02/22/18 16:23	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>720 J</b>	1900	430	5	02/22/18 16:23	2/22/18	
Isophorone	1900 U	1900	420	5	02/22/18 16:23	2/22/18	
N-Nitrosodi-n-propylamine	1900 U	1900	350	5	02/22/18 16:23	2/22/18	
N-Nitrosodiphenylamine	1900 U	1900	860	5	02/22/18 16:23	2/22/18	
Naphthalene	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Nitrobenzene	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Pentachlorophenol (PCP)	9900 U	9900	640	5	02/22/18 16:23	2/22/18	
Phenanthrene	<b>1200 J</b>	1900	400	5	02/22/18 16:23	2/22/18	
Phenol	1900 U	1900	430	5	02/22/18 16:23	2/22/18	
Pyrene	<b>1600 J</b>	1900	380	5	02/22/18 16:23	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	77	13 - 128	02/22/18 16:23	
2-Fluorobiphenyl	52	10 - 102	02/22/18 16:23	
2-Fluorophenol	43	16 - 129	02/22/18 16:23	
Nitrobenzene-d5	40	10 - 95	02/22/18 16:23	
Phenol-d6	49	10 - 145	02/22/18 16:23	
Terphenyl-d14	76	16 - 126	02/22/18 16:23	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	430 U	430	130	1	02/22/18 16:50	2/22/18	
2,3,4,6-Tetrachlorophenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2,4,5-Trichlorophenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2,4,6-Trichlorophenol	430 U	430	120	1	02/22/18 16:50	2/22/18	
2,4-Dichlorophenol	430 U	430	88	1	02/22/18 16:50	2/22/18	
2,4-Dimethylphenol	430 U	430	82	1	02/22/18 16:50	2/22/18	
2,4-Dinitrophenol	2200 U	2200	80	1	02/22/18 16:50	2/22/18	
2,4-Dinitrotoluene	430 U	430	120	1	02/22/18 16:50	2/22/18	
2,6-Dinitrotoluene	430 U	430	150	1	02/22/18 16:50	2/22/18	
2-Chloronaphthalene	430 U	430	95	1	02/22/18 16:50	2/22/18	
2-Chlorophenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2-Methylnaphthalene	430 U	430	96	1	02/22/18 16:50	2/22/18	
2-Methylphenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2-Nitroaniline	2200 U	2200	130	1	02/22/18 16:50	2/22/18	
2-Nitrophenol	430 U	430	97	1	02/22/18 16:50	2/22/18	
3,3'-Dichlorobenzidine	430 U	430	140	1	02/22/18 16:50	2/22/18	
3- and 4-Methylphenol Coelution	430 U	430	110	1	02/22/18 16:50	2/22/18	
3-Nitroaniline	2200 U	2200	93	1	02/22/18 16:50	2/22/18	
4,6-Dinitro-2-methylphenol	2200 U	2200	93	1	02/22/18 16:50	2/22/18	
4-Bromophenyl Phenyl Ether	430 U	430	130	1	02/22/18 16:50	2/22/18	
4-Chloro-3-methylphenol	430 U	430	98	1	02/22/18 16:50	2/22/18	
4-Chloroaniline	430 U	430	51	1	02/22/18 16:50	2/22/18	
4-Chlorophenyl Phenyl Ether	430 U	430	110	1	02/22/18 16:50	2/22/18	
4-Nitroaniline	2200 U	2200	94	1	02/22/18 16:50	2/22/18	
4-Nitrophenol	2200 U	2200	250	1	02/22/18 16:50	2/22/18	
Acenaphthene	430 U	430	94	1	02/22/18 16:50	2/22/18	
Acenaphthylene	430 U	430	87	1	02/22/18 16:50	2/22/18	
Acetophenone	430 U	430	100	1	02/22/18 16:50	2/22/18	
Anthracene	430 U	430	83	1	02/22/18 16:50	2/22/18	
Atrazine	430 U	430	120	1	02/22/18 16:50	2/22/18	
Benz(a)anthracene	<b>280 J</b>	430	75	1	02/22/18 16:50	2/22/18	
Benzaldehyde	2200 U	2200	110	1	02/22/18 16:50	2/22/18	
Benzo(a)pyrene	<b>290 J</b>	430	86	1	02/22/18 16:50	2/22/18	
Benzo(b)fluoranthene	<b>350 J</b>	430	78	1	02/22/18 16:50	2/22/18	
Benzo(g,h,i)perylene	<b>230 J</b>	430	98	1	02/22/18 16:50	2/22/18	
Benzo(k)fluoranthene	<b>130 J</b>	430	96	1	02/22/18 16:50	2/22/18	
Biphenyl	430 U	430	100	1	02/22/18 16:50	2/22/18	
2,2'-Oxybis(1-chloropropane)	430 U	430	110	1	02/22/18 16:50	2/22/18	
Bis(2-chloroethoxy)methane	430 U	430	98	1	02/22/18 16:50	2/22/18	
Bis(2-chloroethyl) Ether	430 U	430	78	1	02/22/18 16:50	2/22/18	
Bis(2-ethylhexyl) Phthalate	650 U	650	600	1	02/22/18 16:50	2/22/18	
Butyl Benzyl Phthalate	430 U	430	82	1	02/22/18 16:50	2/22/18	
Caprolactam	430 U	430	95	1	02/22/18 16:50	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	430 U	430	110	1	02/22/18 16:50	2/22/18	
Chrysene	<b>320 J</b>	430	84	1	02/22/18 16:50	2/22/18	
Di-n-butyl Phthalate	430 U	430	150	1	02/22/18 16:50	2/22/18	
Di-n-octyl Phthalate	430 U	430	130	1	02/22/18 16:50	2/22/18	
Dibenz(a,h)anthracene	430 U	430	78	1	02/22/18 16:50	2/22/18	
Dibenzofuran	430 U	430	88	1	02/22/18 16:50	2/22/18	
Diethyl Phthalate	430 U	430	240	1	02/22/18 16:50	2/22/18	
Dimethyl Phthalate	430 U	430	120	1	02/22/18 16:50	2/22/18	
Fluoranthene	<b>670</b>	430	110	1	02/22/18 16:50	2/22/18	
Fluorene	430 U	430	110	1	02/22/18 16:50	2/22/18	
Hexachlorobenzene	430 U	430	100	1	02/22/18 16:50	2/22/18	
Hexachlorobutadiene	430 U	430	73	1	02/22/18 16:50	2/22/18	
Hexachlorocyclopentadiene	430 U	430	71	1	02/22/18 16:50	2/22/18	
Hexachloroethane	430 U	430	75	1	02/22/18 16:50	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>230 J</b>	430	94	1	02/22/18 16:50	2/22/18	
Isophorone	430 U	430	92	1	02/22/18 16:50	2/22/18	
N-Nitrosodi-n-propylamine	430 U	430	78	1	02/22/18 16:50	2/22/18	
N-Nitrosodiphenylamine	430 U	430	200	1	02/22/18 16:50	2/22/18	
Naphthalene	430 U	430	88	1	02/22/18 16:50	2/22/18	
Nitrobenzene	430 U	430	88	1	02/22/18 16:50	2/22/18	
Pentachlorophenol (PCP)	2200 U	2200	150	1	02/22/18 16:50	2/22/18	
Phenanthrene	<b>370 J</b>	430	89	1	02/22/18 16:50	2/22/18	
Phenol	430 U	430	94	1	02/22/18 16:50	2/22/18	
Pyrene	<b>560</b>	430	83	1	02/22/18 16:50	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	13 - 128	02/22/18 16:50	
2-Fluorobiphenyl	45	10 - 102	02/22/18 16:50	
2-Fluorophenol	49	16 - 129	02/22/18 16:50	
Nitrobenzene-d5	52	10 - 95	02/22/18 16:50	
Phenol-d6	51	10 - 145	02/22/18 16:50	
Terphenyl-d14	91	16 - 126	02/22/18 16:50	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	02/22/18 17:18	2/22/18	
2,3,4,6-Tetrachlorophenol	400 U	400	99	1	02/22/18 17:18	2/22/18	
2,4,5-Trichlorophenol	400 U	400	100	1	02/22/18 17:18	2/22/18	
2,4,6-Trichlorophenol	400 U	400	110	1	02/22/18 17:18	2/22/18	
2,4-Dichlorophenol	400 U	400	83	1	02/22/18 17:18	2/22/18	
2,4-Dimethylphenol	400 U	400	77	1	02/22/18 17:18	2/22/18	
2,4-Dinitrophenol	2100 U	2100	75	1	02/22/18 17:18	2/22/18	
2,4-Dinitrotoluene	400 U	400	110	1	02/22/18 17:18	2/22/18	
2,6-Dinitrotoluene	400 U	400	150	1	02/22/18 17:18	2/22/18	
2-Chloronaphthalene	400 U	400	89	1	02/22/18 17:18	2/22/18	
2-Chlorophenol	400 U	400	98	1	02/22/18 17:18	2/22/18	
2-Methylnaphthalene	400 U	400	90	1	02/22/18 17:18	2/22/18	
2-Methylphenol	400 U	400	98	1	02/22/18 17:18	2/22/18	
2-Nitroaniline	2100 U	2100	120	1	02/22/18 17:18	2/22/18	
2-Nitrophenol	400 U	400	92	1	02/22/18 17:18	2/22/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	02/22/18 17:18	2/22/18	
3- and 4-Methylphenol Coelution	400 U	400	110	1	02/22/18 17:18	2/22/18	
3-Nitroaniline	2100 U	2100	87	1	02/22/18 17:18	2/22/18	
4,6-Dinitro-2-methylphenol	2100 U	2100	87	1	02/22/18 17:18	2/22/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	02/22/18 17:18	2/22/18	
4-Chloro-3-methylphenol	400 U	400	92	1	02/22/18 17:18	2/22/18	
4-Chloroaniline	400 U	400	48	1	02/22/18 17:18	2/22/18	
4-Chlorophenyl Phenyl Ether	400 U	400	96	1	02/22/18 17:18	2/22/18	
4-Nitroaniline	2100 U	2100	89	1	02/22/18 17:18	2/22/18	
4-Nitrophenol	2100 U	2100	240	1	02/22/18 17:18	2/22/18	
Acenaphthene	400 U	400	89	1	02/22/18 17:18	2/22/18	
Acenaphthylene	400 U	400	82	1	02/22/18 17:18	2/22/18	
Acetophenone	400 U	400	94	1	02/22/18 17:18	2/22/18	
Anthracene	400 U	400	78	1	02/22/18 17:18	2/22/18	
Atrazine	400 U	400	110	1	02/22/18 17:18	2/22/18	
Benz(a)anthracene	400 U	400	71	1	02/22/18 17:18	2/22/18	
Benzaldehyde	2100 U	2100	96	1	02/22/18 17:18	2/22/18	
Benzo(a)pyrene	400 U	400	81	1	02/22/18 17:18	2/22/18	
Benzo(b)fluoranthene	400 U	400	74	1	02/22/18 17:18	2/22/18	
Benzo(g,h,i)perylene	400 U	400	92	1	02/22/18 17:18	2/22/18	
Benzo(k)fluoranthene	400 U	400	90	1	02/22/18 17:18	2/22/18	
Biphenyl	400 U	400	94	1	02/22/18 17:18	2/22/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	99	1	02/22/18 17:18	2/22/18	
Bis(2-chloroethoxy)methane	400 U	400	92	1	02/22/18 17:18	2/22/18	
Bis(2-chloroethyl) Ether	400 U	400	73	1	02/22/18 17:18	2/22/18	
Bis(2-ethylhexyl) Phthalate	610 U	610	560	1	02/22/18 17:18	2/22/18	
Butyl Benzyl Phthalate	400 U	400	77	1	02/22/18 17:18	2/22/18	
Caprolactam	400 U	400	89	1	02/22/18 17:18	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	400 U	400	100	1	02/22/18 17:18	2/22/18	
Chrysene	400 U	400	79	1	02/22/18 17:18	2/22/18	
Di-n-butyl Phthalate	400 U	400	140	1	02/22/18 17:18	2/22/18	
Di-n-octyl Phthalate	400 U	400	130	1	02/22/18 17:18	2/22/18	
Dibenz(a,h)anthracene	400 U	400	73	1	02/22/18 17:18	2/22/18	
Dibenzofuran	400 U	400	82	1	02/22/18 17:18	2/22/18	
Diethyl Phthalate	400 U	400	220	1	02/22/18 17:18	2/22/18	
Dimethyl Phthalate	400 U	400	120	1	02/22/18 17:18	2/22/18	
Fluoranthene	400 U	400	95	1	02/22/18 17:18	2/22/18	
Fluorene	400 U	400	110	1	02/22/18 17:18	2/22/18	
Hexachlorobenzene	400 U	400	94	1	02/22/18 17:18	2/22/18	
Hexachlorobutadiene	400 U	400	68	1	02/22/18 17:18	2/22/18	
Hexachlorocyclopentadiene	400 U	400	67	1	02/22/18 17:18	2/22/18	
Hexachloroethane	400 U	400	70	1	02/22/18 17:18	2/22/18	
Indeno(1,2,3-cd)pyrene	400 U	400	89	1	02/22/18 17:18	2/22/18	
Isophorone	400 U	400	87	1	02/22/18 17:18	2/22/18	
N-Nitrosodi-n-propylamine	400 U	400	73	1	02/22/18 17:18	2/22/18	
N-Nitrosodiphenylamine	400 U	400	180	1	02/22/18 17:18	2/22/18	
Naphthalene	400 U	400	83	1	02/22/18 17:18	2/22/18	
Nitrobenzene	400 U	400	83	1	02/22/18 17:18	2/22/18	
Pentachlorophenol (PCP)	2100 U	2100	140	1	02/22/18 17:18	2/22/18	
Phenanthrene	400 U	400	84	1	02/22/18 17:18	2/22/18	
Phenol	400 U	400	88	1	02/22/18 17:18	2/22/18	
Pyrene	400 U	400	78	1	02/22/18 17:18	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	61	13 - 128	02/22/18 17:18	
2-Fluorobiphenyl	30	10 - 102	02/22/18 17:18	
2-Fluorophenol	29	16 - 129	02/22/18 17:18	
Nitrobenzene-d5	32	10 - 95	02/22/18 17:18	
Phenol-d6	30	10 - 145	02/22/18 17:18	
Terphenyl-d14	95	16 - 126	02/22/18 17:18	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:48  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	350 U	350	110	1	02/22/18 17:46	2/22/18	
2,3,4,6-Tetrachlorophenol	350 U	350	87	1	02/22/18 17:46	2/22/18	
2,4,5-Trichlorophenol	350 U	350	87	1	02/22/18 17:46	2/22/18	
2,4,6-Trichlorophenol	350 U	350	91	1	02/22/18 17:46	2/22/18	
2,4-Dichlorophenol	350 U	350	72	1	02/22/18 17:46	2/22/18	
2,4-Dimethylphenol	350 U	350	67	1	02/22/18 17:46	2/22/18	
2,4-Dinitrophenol	1800 U	1800	66	1	02/22/18 17:46	2/22/18	
2,4-Dinitrotoluene	350 U	350	91	1	02/22/18 17:46	2/22/18	
2,6-Dinitrotoluene	350 U	350	130	1	02/22/18 17:46	2/22/18	
2-Chloronaphthalene	350 U	350	78	1	02/22/18 17:46	2/22/18	
2-Chlorophenol	350 U	350	85	1	02/22/18 17:46	2/22/18	
2-Methylnaphthalene	350 U	350	79	1	02/22/18 17:46	2/22/18	
2-Methylphenol	350 U	350	85	1	02/22/18 17:46	2/22/18	
2-Nitroaniline	1800 U	1800	110	1	02/22/18 17:46	2/22/18	
2-Nitrophenol	350 U	350	80	1	02/22/18 17:46	2/22/18	
3,3'-Dichlorobenzidine	350 U	350	110	1	02/22/18 17:46	2/22/18	
3- and 4-Methylphenol Coelution	350 U	350	88	1	02/22/18 17:46	2/22/18	
3-Nitroaniline	1800 U	1800	76	1	02/22/18 17:46	2/22/18	
4,6-Dinitro-2-methylphenol	1800 U	1800	76	1	02/22/18 17:46	2/22/18	
4-Bromophenyl Phenyl Ether	350 U	350	99	1	02/22/18 17:46	2/22/18	
4-Chloro-3-methylphenol	350 U	350	80	1	02/22/18 17:46	2/22/18	
4-Chloroaniline	350 U	350	42	1	02/22/18 17:46	2/22/18	
4-Chlorophenyl Phenyl Ether	350 U	350	84	1	02/22/18 17:46	2/22/18	
4-Nitroaniline	1800 U	1800	77	1	02/22/18 17:46	2/22/18	
4-Nitrophenol	1800 U	1800	210	1	02/22/18 17:46	2/22/18	
Acenaphthene	350 U	350	77	1	02/22/18 17:46	2/22/18	
Acenaphthylene	350 U	350	72	1	02/22/18 17:46	2/22/18	
Acetophenone	350 U	350	82	1	02/22/18 17:46	2/22/18	
Anthracene	350 U	350	68	1	02/22/18 17:46	2/22/18	
Atrazine	350 U	350	95	1	02/22/18 17:46	2/22/18	
Benz(a)anthracene	350 U	350	61	1	02/22/18 17:46	2/22/18	
Benzaldehyde	1800 U	1800	83	1	02/22/18 17:46	2/22/18	
Benzo(a)pyrene	350 U	350	71	1	02/22/18 17:46	2/22/18	
Benzo(b)fluoranthene	350 U	350	64	1	02/22/18 17:46	2/22/18	
Benzo(g,h,i)perylene	350 U	350	80	1	02/22/18 17:46	2/22/18	
Benzo(k)fluoranthene	350 U	350	79	1	02/22/18 17:46	2/22/18	
Biphenyl	350 U	350	82	1	02/22/18 17:46	2/22/18	
2,2'-Oxybis(1-chloropropane)	350 U	350	86	1	02/22/18 17:46	2/22/18	
Bis(2-chloroethoxy)methane	350 U	350	80	1	02/22/18 17:46	2/22/18	
Bis(2-chloroethyl) Ether	350 U	350	64	1	02/22/18 17:46	2/22/18	
Bis(2-ethylhexyl) Phthalate	530 U	530	490	1	02/22/18 17:46	2/22/18	
Butyl Benzyl Phthalate	350 U	350	67	1	02/22/18 17:46	2/22/18	
Caprolactam	350 U	350	78	1	02/22/18 17:46	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:48  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	350 U	350	87	1	02/22/18 17:46	2/22/18	
Chrysene	350 U	350	69	1	02/22/18 17:46	2/22/18	
Di-n-butyl Phthalate	350 U	350	120	1	02/22/18 17:46	2/22/18	
Di-n-octyl Phthalate	350 U	350	110	1	02/22/18 17:46	2/22/18	
Dibenz(a,h)anthracene	350 U	350	64	1	02/22/18 17:46	2/22/18	
Dibenzofuran	350 U	350	72	1	02/22/18 17:46	2/22/18	
Diethyl Phthalate	350 U	350	200	1	02/22/18 17:46	2/22/18	
Dimethyl Phthalate	350 U	350	96	1	02/22/18 17:46	2/22/18	
Fluoranthene	350 U	350	82	1	02/22/18 17:46	2/22/18	
Fluorene	350 U	350	88	1	02/22/18 17:46	2/22/18	
Hexachlorobenzene	350 U	350	82	1	02/22/18 17:46	2/22/18	
Hexachlorobutadiene	350 U	350	59	1	02/22/18 17:46	2/22/18	
Hexachlorocyclopentadiene	350 U	350	58	1	02/22/18 17:46	2/22/18	
Hexachloroethane	350 U	350	61	1	02/22/18 17:46	2/22/18	
Indeno(1,2,3-cd)pyrene	350 U	350	77	1	02/22/18 17:46	2/22/18	
Isophorone	350 U	350	76	1	02/22/18 17:46	2/22/18	
N-Nitrosodi-n-propylamine	350 U	350	64	1	02/22/18 17:46	2/22/18	
N-Nitrosodiphenylamine	350 U	350	160	1	02/22/18 17:46	2/22/18	
Naphthalene	350 U	350	72	1	02/22/18 17:46	2/22/18	
Nitrobenzene	350 U	350	72	1	02/22/18 17:46	2/22/18	
Pentachlorophenol (PCP)	1800 U	1800	120	1	02/22/18 17:46	2/22/18	
Phenanthrene	350 U	350	73	1	02/22/18 17:46	2/22/18	
Phenol	350 U	350	77	1	02/22/18 17:46	2/22/18	
Pyrene	350 U	350	68	1	02/22/18 17:46	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	13 - 128	02/22/18 17:46	
2-Fluorobiphenyl	51	10 - 102	02/22/18 17:46	
2-Fluorophenol	42	16 - 129	02/22/18 17:46	
Nitrobenzene-d5	49	10 - 95	02/22/18 17:46	
Phenol-d6	47	10 - 145	02/22/18 17:46	
Terphenyl-d14	101	16 - 126	02/22/18 17:46	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:12  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	120	1	02/22/18 18:13	2/22/18	
2,3,4,6-Tetrachlorophenol	390 U	390	96	1	02/22/18 18:13	2/22/18	
2,4,5-Trichlorophenol	390 U	390	97	1	02/22/18 18:13	2/22/18	
2,4,6-Trichlorophenol	390 U	390	100	1	02/22/18 18:13	2/22/18	
2,4-Dichlorophenol	390 U	390	80	1	02/22/18 18:13	2/22/18	
2,4-Dimethylphenol	390 U	390	74	1	02/22/18 18:13	2/22/18	
2,4-Dinitrophenol	2000 U	2000	73	1	02/22/18 18:13	2/22/18	
2,4-Dinitrotoluene	390 U	390	110	1	02/22/18 18:13	2/22/18	
2,6-Dinitrotoluene	390 U	390	140	1	02/22/18 18:13	2/22/18	
2-Chloronaphthalene	390 U	390	86	1	02/22/18 18:13	2/22/18	
2-Chlorophenol	390 U	390	94	1	02/22/18 18:13	2/22/18	
2-Methylnaphthalene	390 U	390	87	1	02/22/18 18:13	2/22/18	
2-Methylphenol	390 U	390	94	1	02/22/18 18:13	2/22/18	
2-Nitroaniline	2000 U	2000	120	1	02/22/18 18:13	2/22/18	
2-Nitrophenol	390 U	390	88	1	02/22/18 18:13	2/22/18	
3,3'-Dichlorobenzidine	390 U	390	120	1	02/22/18 18:13	2/22/18	
3- and 4-Methylphenol Coelution	390 U	390	98	1	02/22/18 18:13	2/22/18	
3-Nitroaniline	2000 U	2000	84	1	02/22/18 18:13	2/22/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	84	1	02/22/18 18:13	2/22/18	
4-Bromophenyl Phenyl Ether	390 U	390	110	1	02/22/18 18:13	2/22/18	
4-Chloro-3-methylphenol	390 U	390	88	1	02/22/18 18:13	2/22/18	
4-Chloroaniline	390 U	390	47	1	02/22/18 18:13	2/22/18	
4-Chlorophenyl Phenyl Ether	390 U	390	92	1	02/22/18 18:13	2/22/18	
4-Nitroaniline	2000 U	2000	86	1	02/22/18 18:13	2/22/18	
4-Nitrophenol	2000 U	2000	230	1	02/22/18 18:13	2/22/18	
Acenaphthene	390 U	390	86	1	02/22/18 18:13	2/22/18	
Acenaphthylene	390 U	390	79	1	02/22/18 18:13	2/22/18	
Acetophenone	390 U	390	91	1	02/22/18 18:13	2/22/18	
Anthracene	390 U	390	75	1	02/22/18 18:13	2/22/18	
Atrazine	390 U	390	110	1	02/22/18 18:13	2/22/18	
Benz(a)anthracene	<b>97 J</b>	390	68	1	02/22/18 18:13	2/22/18	
Benzaldehyde	2000 U	2000	92	1	02/22/18 18:13	2/22/18	
Benzo(a)pyrene	<b>130 J</b>	390	78	1	02/22/18 18:13	2/22/18	
Benzo(b)fluoranthene	<b>170 J</b>	390	71	1	02/22/18 18:13	2/22/18	
Benzo(g,h,i)perylene	<b>110 J</b>	390	88	1	02/22/18 18:13	2/22/18	
Benzo(k)fluoranthene	390 U	390	87	1	02/22/18 18:13	2/22/18	
Biphenyl	390 U	390	91	1	02/22/18 18:13	2/22/18	
2,2'-Oxybis(1-chloropropane)	390 U	390	95	1	02/22/18 18:13	2/22/18	
Bis(2-chloroethoxy)methane	390 U	390	89	1	02/22/18 18:13	2/22/18	
Bis(2-chloroethyl) Ether	390 U	390	71	1	02/22/18 18:13	2/22/18	
Bis(2-ethylhexyl) Phthalate	590 U	590	540	1	02/22/18 18:13	2/22/18	
Butyl Benzyl Phthalate	390 U	390	74	1	02/22/18 18:13	2/22/18	
Caprolactam	390 U	390	86	1	02/22/18 18:13	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:12  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	96	1	02/22/18 18:13	2/22/18	
Chrysene	<b>120 J</b>	390	76	1	02/22/18 18:13	2/22/18	
Di-n-butyl Phthalate	390 U	390	130	1	02/22/18 18:13	2/22/18	
Di-n-octyl Phthalate	390 U	390	120	1	02/22/18 18:13	2/22/18	
Dibenz(a,h)anthracene	390 U	390	70	1	02/22/18 18:13	2/22/18	
Dibenzofuran	390 U	390	79	1	02/22/18 18:13	2/22/18	
Diethyl Phthalate	390 U	390	220	1	02/22/18 18:13	2/22/18	
Dimethyl Phthalate	390 U	390	110	1	02/22/18 18:13	2/22/18	
Fluoranthene	<b>140 J</b>	390	91	1	02/22/18 18:13	2/22/18	
Fluorene	390 U	390	98	1	02/22/18 18:13	2/22/18	
Hexachlorobenzene	390 U	390	90	1	02/22/18 18:13	2/22/18	
Hexachlorobutadiene	390 U	390	66	1	02/22/18 18:13	2/22/18	
Hexachlorocyclopentadiene	390 U	390	64	1	02/22/18 18:13	2/22/18	
Hexachloroethane	390 U	390	68	1	02/22/18 18:13	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>92 J</b>	390	86	1	02/22/18 18:13	2/22/18	
Isophorone	390 U	390	84	1	02/22/18 18:13	2/22/18	
N-Nitrosodi-n-propylamine	390 U	390	71	1	02/22/18 18:13	2/22/18	
N-Nitrosodiphenylamine	390 U	390	180	1	02/22/18 18:13	2/22/18	
Naphthalene	390 U	390	80	1	02/22/18 18:13	2/22/18	
Nitrobenzene	390 U	390	80	1	02/22/18 18:13	2/22/18	
Pentachlorophenol (PCP)	2000 U	2000	130	1	02/22/18 18:13	2/22/18	
Phenanthrene	390 U	390	81	1	02/22/18 18:13	2/22/18	
Phenol	390 U	390	85	1	02/22/18 18:13	2/22/18	
Pyrene	<b>130 J</b>	390	76	1	02/22/18 18:13	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	13 - 128	02/22/18 18:13	
2-Fluorobiphenyl	35	10 - 102	02/22/18 18:13	
2-Fluorophenol	35	16 - 129	02/22/18 18:13	
Nitrobenzene-d5	37	10 - 95	02/22/18 18:13	
Phenol-d6	35	10 - 145	02/22/18 18:13	
Terphenyl-d14	85	16 - 126	02/22/18 18:13	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:24  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	410 U	410	130	1	02/22/18 18:41	2/22/18	
2,3,4,6-Tetrachlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,4,5-Trichlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,4,6-Trichlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,4-Dichlorophenol	410 U	410	86	1	02/22/18 18:41	2/22/18	
2,4-Dimethylphenol	410 U	410	79	1	02/22/18 18:41	2/22/18	
2,4-Dinitrophenol	2100 U	2100	78	1	02/22/18 18:41	2/22/18	
2,4-Dinitrotoluene	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,6-Dinitrotoluene	410 U	410	150	1	02/22/18 18:41	2/22/18	
2-Chloronaphthalene	410 U	410	92	1	02/22/18 18:41	2/22/18	
2-Chlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2-Methylnaphthalene	410 U	410	93	1	02/22/18 18:41	2/22/18	
2-Methylphenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2-Nitroaniline	2100 U	2100	120	1	02/22/18 18:41	2/22/18	
2-Nitrophenol	410 U	410	94	1	02/22/18 18:41	2/22/18	
3,3'-Dichlorobenzidine	410 U	410	130	1	02/22/18 18:41	2/22/18	
3- and 4-Methylphenol Coelution	410 U	410	110	1	02/22/18 18:41	2/22/18	
3-Nitroaniline	2100 U	2100	90	1	02/22/18 18:41	2/22/18	
4,6-Dinitro-2-methylphenol	2100 U	2100	90	1	02/22/18 18:41	2/22/18	
4-Bromophenyl Phenyl Ether	410 U	410	120	1	02/22/18 18:41	2/22/18	
4-Chloro-3-methylphenol	410 U	410	95	1	02/22/18 18:41	2/22/18	
4-Chloroaniline	410 U	410	50	1	02/22/18 18:41	2/22/18	
4-Chlorophenyl Phenyl Ether	410 U	410	99	1	02/22/18 18:41	2/22/18	
4-Nitroaniline	2100 U	2100	92	1	02/22/18 18:41	2/22/18	
4-Nitrophenol	2100 U	2100	250	1	02/22/18 18:41	2/22/18	
Acenaphthene	410 U	410	92	1	02/22/18 18:41	2/22/18	
Acenaphthylene	410 U	410	85	1	02/22/18 18:41	2/22/18	
Acetophenone	410 U	410	97	1	02/22/18 18:41	2/22/18	
Anthracene	410 U	410	80	1	02/22/18 18:41	2/22/18	
Atrazine	410 U	410	120	1	02/22/18 18:41	2/22/18	
Benz(a)anthracene	410 U	410	73	1	02/22/18 18:41	2/22/18	
Benzaldehyde	2100 U	2100	99	1	02/22/18 18:41	2/22/18	
Benzo(a)pyrene	410 U	410	84	1	02/22/18 18:41	2/22/18	
Benzo(b)fluoranthene	410 U	410	76	1	02/22/18 18:41	2/22/18	
Benzo(g,h,i)perylene	410 U	410	95	1	02/22/18 18:41	2/22/18	
Benzo(k)fluoranthene	410 U	410	93	1	02/22/18 18:41	2/22/18	
Biphenyl	410 U	410	97	1	02/22/18 18:41	2/22/18	
2,2'-Oxybis(1-chloropropane)	410 U	410	110	1	02/22/18 18:41	2/22/18	
Bis(2-chloroethoxy)methane	410 U	410	95	1	02/22/18 18:41	2/22/18	
Bis(2-chloroethyl) Ether	410 U	410	76	1	02/22/18 18:41	2/22/18	
Bis(2-ethylhexyl) Phthalate	630 U	630	580	1	02/22/18 18:41	2/22/18	
Butyl Benzyl Phthalate	410 U	410	79	1	02/22/18 18:41	2/22/18	
Caprolactam	410 U	410	92	1	02/22/18 18:41	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:24  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	410 U	410	110	1	02/22/18 18:41	2/22/18	
Chrysene	410 U	410	82	1	02/22/18 18:41	2/22/18	
Di-n-butyl Phthalate	410 U	410	140	1	02/22/18 18:41	2/22/18	
Di-n-octyl Phthalate	410 U	410	130	1	02/22/18 18:41	2/22/18	
Dibenz(a,h)anthracene	410 U	410	75	1	02/22/18 18:41	2/22/18	
Dibenzofuran	410 U	410	85	1	02/22/18 18:41	2/22/18	
Diethyl Phthalate	410 U	410	230	1	02/22/18 18:41	2/22/18	
Dimethyl Phthalate	410 U	410	120	1	02/22/18 18:41	2/22/18	
Fluoranthene	410 U	410	98	1	02/22/18 18:41	2/22/18	
Fluorene	410 U	410	110	1	02/22/18 18:41	2/22/18	
Hexachlorobenzene	410 U	410	97	1	02/22/18 18:41	2/22/18	
Hexachlorobutadiene	410 U	410	70	1	02/22/18 18:41	2/22/18	
Hexachlorocyclopentadiene	410 U	410	69	1	02/22/18 18:41	2/22/18	
Hexachloroethane	410 U	410	73	1	02/22/18 18:41	2/22/18	
Indeno(1,2,3-cd)pyrene	410 U	410	92	1	02/22/18 18:41	2/22/18	
Isophorone	410 U	410	90	1	02/22/18 18:41	2/22/18	
N-Nitrosodi-n-propylamine	410 U	410	76	1	02/22/18 18:41	2/22/18	
N-Nitrosodiphenylamine	410 U	410	190	1	02/22/18 18:41	2/22/18	
Naphthalene	410 U	410	85	1	02/22/18 18:41	2/22/18	
Nitrobenzene	410 U	410	85	1	02/22/18 18:41	2/22/18	
Pentachlorophenol (PCP)	2100 U	2100	140	1	02/22/18 18:41	2/22/18	
Phenanthrene	410 U	410	86	1	02/22/18 18:41	2/22/18	
Phenol	410 U	410	91	1	02/22/18 18:41	2/22/18	
Pyrene	410 U	410	81	1	02/22/18 18:41	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	13 - 128	02/22/18 18:41	
2-Fluorobiphenyl	52	10 - 102	02/22/18 18:41	
2-Fluorophenol	53	16 - 129	02/22/18 18:41	
Nitrobenzene-d5	57	10 - 95	02/22/18 18:41	
Phenol-d6	56	10 - 145	02/22/18 18:41	
Terphenyl-d14	85	16 - 126	02/22/18 18:41	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	02/22/18 19:09	2/22/18	
2,3,4,6-Tetrachlorophenol	400 U	400	98	1	02/22/18 19:09	2/22/18	
2,4,5-Trichlorophenol	400 U	400	99	1	02/22/18 19:09	2/22/18	
2,4,6-Trichlorophenol	400 U	400	110	1	02/22/18 19:09	2/22/18	
2,4-Dichlorophenol	400 U	400	82	1	02/22/18 19:09	2/22/18	
2,4-Dimethylphenol	400 U	400	76	1	02/22/18 19:09	2/22/18	
2,4-Dinitrophenol	2000 U	2000	74	1	02/22/18 19:09	2/22/18	
2,4-Dinitrotoluene	400 U	400	110	1	02/22/18 19:09	2/22/18	
2,6-Dinitrotoluene	400 U	400	140	1	02/22/18 19:09	2/22/18	
2-Chloronaphthalene	400 U	400	88	1	02/22/18 19:09	2/22/18	
2-Chlorophenol	400 U	400	96	1	02/22/18 19:09	2/22/18	
2-Methylnaphthalene	400 U	400	89	1	02/22/18 19:09	2/22/18	
2-Methylphenol	400 U	400	96	1	02/22/18 19:09	2/22/18	
2-Nitroaniline	2000 U	2000	120	1	02/22/18 19:09	2/22/18	
2-Nitrophenol	400 U	400	90	1	02/22/18 19:09	2/22/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	02/22/18 19:09	2/22/18	
3- and 4-Methylphenol Coelution	400 U	400	100	1	02/22/18 19:09	2/22/18	
3-Nitroaniline	2000 U	2000	86	1	02/22/18 19:09	2/22/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	86	1	02/22/18 19:09	2/22/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	02/22/18 19:09	2/22/18	
4-Chloro-3-methylphenol	400 U	400	90	1	02/22/18 19:09	2/22/18	
4-Chloroaniline	400 U	400	48	1	02/22/18 19:09	2/22/18	
4-Chlorophenyl Phenyl Ether	400 U	400	94	1	02/22/18 19:09	2/22/18	
4-Nitroaniline	2000 U	2000	87	1	02/22/18 19:09	2/22/18	
4-Nitrophenol	2000 U	2000	230	1	02/22/18 19:09	2/22/18	
Acenaphthene	<b>220 J</b>	400	88	1	02/22/18 19:09	2/22/18	
Acenaphthylene	400 U	400	81	1	02/22/18 19:09	2/22/18	
Acetophenone	400 U	400	93	1	02/22/18 19:09	2/22/18	
Anthracene	<b>680</b>	400	77	1	02/22/18 19:09	2/22/18	
Atrazine	400 U	400	110	1	02/22/18 19:09	2/22/18	
Benz(a)anthracene	<b>1700</b>	400	69	1	02/22/18 19:09	2/22/18	
Benzaldehyde	2000 U	2000	94	1	02/22/18 19:09	2/22/18	
Benzo(a)pyrene	<b>1400</b>	400	80	1	02/22/18 19:09	2/22/18	
Benzo(b)fluoranthene	<b>1800</b>	400	72	1	02/22/18 19:09	2/22/18	
Benzo(g,h,i)perylene	<b>710</b>	400	90	1	02/22/18 19:09	2/22/18	
Benzo(k)fluoranthene	<b>700</b>	400	89	1	02/22/18 19:09	2/22/18	
Biphenyl	400 U	400	93	1	02/22/18 19:09	2/22/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	97	1	02/22/18 19:09	2/22/18	
Bis(2-chloroethoxy)methane	400 U	400	91	1	02/22/18 19:09	2/22/18	
Bis(2-chloroethyl) Ether	400 U	400	72	1	02/22/18 19:09	2/22/18	
Bis(2-ethylhexyl) Phthalate	600 U	600	550	1	02/22/18 19:09	2/22/18	
Butyl Benzyl Phthalate	400 U	400	76	1	02/22/18 19:09	2/22/18	
Caprolactam	400 U	400	88	1	02/22/18 19:09	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>300 J</b>	400	98	1	02/22/18 19:09	2/22/18	
Chrysene	<b>1700</b>	400	78	1	02/22/18 19:09	2/22/18	
Di-n-butyl Phthalate	400 U	400	140	1	02/22/18 19:09	2/22/18	
Di-n-octyl Phthalate	400 U	400	120	1	02/22/18 19:09	2/22/18	
Dibenz(a,h)anthracene	<b>200 J</b>	400	72	1	02/22/18 19:09	2/22/18	
Dibenzofuran	<b>120 J</b>	400	81	1	02/22/18 19:09	2/22/18	
Diethyl Phthalate	400 U	400	220	1	02/22/18 19:09	2/22/18	
Dimethyl Phthalate	400 U	400	110	1	02/22/18 19:09	2/22/18	
Fluoranthene	<b>4100</b>	400	93	1	02/22/18 19:09	2/22/18	
Fluorene	<b>200 J</b>	400	100	1	02/22/18 19:09	2/22/18	
Hexachlorobenzene	400 U	400	92	1	02/22/18 19:09	2/22/18	
Hexachlorobutadiene	400 U	400	67	1	02/22/18 19:09	2/22/18	
Hexachlorocyclopentadiene	400 U	400	66	1	02/22/18 19:09	2/22/18	
Hexachloroethane	400 U	400	69	1	02/22/18 19:09	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>860</b>	400	87	1	02/22/18 19:09	2/22/18	
Isophorone	400 U	400	86	1	02/22/18 19:09	2/22/18	
N-Nitrosodi-n-propylamine	400 U	400	72	1	02/22/18 19:09	2/22/18	
N-Nitrosodiphenylamine	400 U	400	180	1	02/22/18 19:09	2/22/18	
Naphthalene	400 U	400	81	1	02/22/18 19:09	2/22/18	
Nitrobenzene	400 U	400	81	1	02/22/18 19:09	2/22/18	
Pentachlorophenol (PCP)	2000 U	2000	140	1	02/22/18 19:09	2/22/18	
Phenanthrene	<b>2800</b>	400	82	1	02/22/18 19:09	2/22/18	
Phenol	400 U	400	87	1	02/22/18 19:09	2/22/18	
Pyrene	<b>3200</b>	400	77	1	02/22/18 19:09	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	102	13 - 128	02/22/18 19:09	
2-Fluorobiphenyl	85	10 - 102	02/22/18 19:09	
2-Fluorophenol	76	16 - 129	02/22/18 19:09	
Nitrobenzene-d5	84	10 - 95	02/22/18 19:09	
Phenol-d6	79	10 - 145	02/22/18 19:09	
Terphenyl-d14	100	16 - 126	02/22/18 19:09	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1100 U	1100	330	3	02/27/18 10:28	2/22/18	
2,3,4,6-Tetrachlorophenol	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
2,4,5-Trichlorophenol	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
2,4,6-Trichlorophenol	1100 U	1100	290	3	02/27/18 10:28	2/22/18	
2,4-Dichlorophenol	1100 U	1100	230	3	02/27/18 10:28	2/22/18	
2,4-Dimethylphenol	1100 U	1100	220	3	02/27/18 10:28	2/22/18	
2,4-Dinitrophenol	5700 U	5700	210	3	02/27/18 10:28	2/22/18	
2,4-Dinitrotoluene	1100 U	1100	290	3	02/27/18 10:28	2/22/18	
2,6-Dinitrotoluene	1100 U	1100	390	3	02/27/18 10:28	2/22/18	
2-Chloronaphthalene	1100 U	1100	250	3	02/27/18 10:28	2/22/18	
2-Chlorophenol	1100 U	1100	270	3	02/27/18 10:28	2/22/18	
2-Methylnaphthalene	<b>500 J</b>	1100	250	3	02/27/18 10:28	2/22/18	
2-Methylphenol	1100 U	1100	270	3	02/27/18 10:28	2/22/18	
2-Nitroaniline	5700 U	5700	320	3	02/27/18 10:28	2/22/18	
2-Nitrophenol	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
3,3'-Dichlorobenzidine	1100 U	1100	340	3	02/27/18 10:28	2/22/18	
3- and 4-Methylphenol Coelution	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
3-Nitroaniline	5700 U	5700	240	3	02/27/18 10:28	2/22/18	
4,6-Dinitro-2-methylphenol	5700 U	5700	240	3	02/27/18 10:28	2/22/18	
4-Bromophenyl Phenyl Ether	1100 U	1100	320	3	02/27/18 10:28	2/22/18	
4-Chloro-3-methylphenol	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
4-Chloroaniline	1100 U	1100	140	3	02/27/18 10:28	2/22/18	
4-Chlorophenyl Phenyl Ether	1100 U	1100	270	3	02/27/18 10:28	2/22/18	
4-Nitroaniline	5700 U	5700	250	3	02/27/18 10:28	2/22/18	
4-Nitrophenol	5700 U	5700	650	3	02/27/18 10:28	2/22/18	
Acenaphthene	<b>960 J</b>	1100	250	3	02/27/18 10:28	2/22/18	
Acenaphthylene	1100 U	1100	230	3	02/27/18 10:28	2/22/18	
Acetophenone	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
Anthracene	<b>3200</b>	1100	220	3	02/27/18 10:28	2/22/18	
Atrazine	1100 U	1100	300	3	02/27/18 10:28	2/22/18	
Benz(a)anthracene	<b>4400</b>	1100	200	3	02/27/18 10:28	2/22/18	
Benzaldehyde	5700 U	5700	270	3	02/27/18 10:28	2/22/18	
Benzo(a)pyrene	<b>3700</b>	1100	230	3	02/27/18 10:28	2/22/18	
Benzo(b)fluoranthene	<b>4400</b>	1100	210	3	02/27/18 10:28	2/22/18	
Benzo(g,h,i)perylene	<b>2300</b>	1100	260	3	02/27/18 10:28	2/22/18	
Benzo(k)fluoranthene	<b>1700</b>	1100	250	3	02/27/18 10:28	2/22/18	
Biphenyl	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
2,2'-Oxybis(1-chloropropane)	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
Bis(2-chloroethoxy)methane	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
Bis(2-chloroethyl) Ether	1100 U	1100	210	3	02/27/18 10:28	2/22/18	
Bis(2-ethylhexyl) Phthalate	1700 U	1700	1600	3	02/27/18 10:28	2/22/18	
Butyl Benzyl Phthalate	1100 U	1100	220	3	02/27/18 10:28	2/22/18	
Caprolactam	1100 U	1100	250	3	02/27/18 10:28	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>1700</b>	1100	280	3	02/27/18 10:28	2/22/18	
Chrysene	<b>4200</b>	1100	220	3	02/27/18 10:28	2/22/18	
Di-n-butyl Phthalate	1100 U	1100	370	3	02/27/18 10:28	2/22/18	
Di-n-octyl Phthalate	1100 U	1100	340	3	02/27/18 10:28	2/22/18	
Dibenz(a,h)anthracene	<b>580 J</b>	1100	200	3	02/27/18 10:28	2/22/18	
Dibenzofuran	<b>1300</b>	1100	230	3	02/27/18 10:28	2/22/18	
Diethyl Phthalate	1100 U	1100	610	3	02/27/18 10:28	2/22/18	
Dimethyl Phthalate	1100 U	1100	310	3	02/27/18 10:28	2/22/18	
Fluoranthene	<b>12000</b>	1100	260	3	02/27/18 10:28	2/22/18	
Fluorene	<b>1400</b>	1100	280	3	02/27/18 10:28	2/22/18	
Hexachlorobenzene	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
Hexachlorobutadiene	1100 U	1100	190	3	02/27/18 10:28	2/22/18	
Hexachlorocyclopentadiene	1100 U	1100	190	3	02/27/18 10:28	2/22/18	
Hexachloroethane	1100 U	1100	200	3	02/27/18 10:28	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>2500</b>	1100	250	3	02/27/18 10:28	2/22/18	
Isophorone	1100 U	1100	240	3	02/27/18 10:28	2/22/18	
N-Nitrosodi-n-propylamine	1100 U	1100	210	3	02/27/18 10:28	2/22/18	
N-Nitrosodiphenylamine	1100 U	1100	500	3	02/27/18 10:28	2/22/18	
Naphthalene	<b>1400</b>	1100	230	3	02/27/18 10:28	2/22/18	
Nitrobenzene	1100 U	1100	230	3	02/27/18 10:28	2/22/18	
Pentachlorophenol (PCP)	5700 U	5700	370	3	02/27/18 10:28	2/22/18	
Phenanthrene	<b>12000</b>	1100	230	3	02/27/18 10:28	2/22/18	
Phenol	1100 U	1100	250	3	02/27/18 10:28	2/22/18	
Pyrene	<b>9400</b>	1100	220	3	02/27/18 10:28	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	13 - 128	02/27/18 10:28	
2-Fluorobiphenyl	46	10 - 102	02/27/18 10:28	
2-Fluorophenol	40	16 - 129	02/27/18 10:28	
Nitrobenzene-d5	43	10 - 95	02/27/18 10:28	
Phenol-d6	44	10 - 145	02/27/18 10:28	
Terphenyl-d14	90	16 - 126	02/27/18 10:28	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	770 U	770	230	2	02/22/18 20:04	2/22/18	
2,3,4,6-Tetrachlorophenol	770 U	770	190	2	02/22/18 20:04	2/22/18	
2,4,5-Trichlorophenol	770 U	770	200	2	02/22/18 20:04	2/22/18	
2,4,6-Trichlorophenol	770 U	770	200	2	02/22/18 20:04	2/22/18	
2,4-Dichlorophenol	770 U	770	160	2	02/22/18 20:04	2/22/18	
2,4-Dimethylphenol	770 U	770	150	2	02/22/18 20:04	2/22/18	
2,4-Dinitrophenol	4000 U	4000	150	2	02/22/18 20:04	2/22/18	
2,4-Dinitrotoluene	770 U	770	200	2	02/22/18 20:04	2/22/18	
2,6-Dinitrotoluene	770 U	770	270	2	02/22/18 20:04	2/22/18	
2-Chloronaphthalene	770 U	770	170	2	02/22/18 20:04	2/22/18	
2-Chlorophenol	770 U	770	190	2	02/22/18 20:04	2/22/18	
2-Methylnaphthalene	770 U	770	180	2	02/22/18 20:04	2/22/18	
2-Methylphenol	770 U	770	190	2	02/22/18 20:04	2/22/18	
2-Nitroaniline	4000 U	4000	220	2	02/22/18 20:04	2/22/18	
2-Nitrophenol	770 U	770	180	2	02/22/18 20:04	2/22/18	
3,3'-Dichlorobenzidine	770 U	770	240	2	02/22/18 20:04	2/22/18	
3- and 4-Methylphenol Coelution	770 U	770	200	2	02/22/18 20:04	2/22/18	
3-Nitroaniline	4000 U	4000	170	2	02/22/18 20:04	2/22/18	
4,6-Dinitro-2-methylphenol	4000 U	4000	170	2	02/22/18 20:04	2/22/18	
4-Bromophenyl Phenyl Ether	770 U	770	220	2	02/22/18 20:04	2/22/18	
4-Chloro-3-methylphenol	770 U	770	180	2	02/22/18 20:04	2/22/18	
4-Chloroaniline	770 U	770	92	2	02/22/18 20:04	2/22/18	
4-Chlorophenyl Phenyl Ether	770 U	770	190	2	02/22/18 20:04	2/22/18	
4-Nitroaniline	4000 U	4000	170	2	02/22/18 20:04	2/22/18	
4-Nitrophenol	4000 U	4000	450	2	02/22/18 20:04	2/22/18	
Acenaphthene	770 U	770	170	2	02/22/18 20:04	2/22/18	
Acenaphthylene	770 U	770	160	2	02/22/18 20:04	2/22/18	
Acetophenone	770 U	770	180	2	02/22/18 20:04	2/22/18	
Anthracene	400 J	770	150	2	02/22/18 20:04	2/22/18	
Atrazine	770 U	770	210	2	02/22/18 20:04	2/22/18	
Benz(a)anthracene	930	770	140	2	02/22/18 20:04	2/22/18	
Benzaldehyde	4000 U	4000	190	2	02/22/18 20:04	2/22/18	
Benzo(a)pyrene	1000	770	160	2	02/22/18 20:04	2/22/18	
Benzo(b)fluoranthene	1200	770	140	2	02/22/18 20:04	2/22/18	
Benzo(g,h,i)perylene	540 J	770	180	2	02/22/18 20:04	2/22/18	
Benzo(k)fluoranthene	450 J	770	180	2	02/22/18 20:04	2/22/18	
Biphenyl	770 U	770	180	2	02/22/18 20:04	2/22/18	
2,2'-Oxybis(1-chloropropane)	770 U	770	190	2	02/22/18 20:04	2/22/18	
Bis(2-chloroethoxy)methane	770 U	770	180	2	02/22/18 20:04	2/22/18	
Bis(2-chloroethyl) Ether	770 U	770	140	2	02/22/18 20:04	2/22/18	
Bis(2-ethylhexyl) Phthalate	1200 U	1200	1100	2	02/22/18 20:04	2/22/18	
Butyl Benzyl Phthalate	770 U	770	150	2	02/22/18 20:04	2/22/18	
Caprolactam	770 U	770	180	2	02/22/18 20:04	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	770 U	770	190	2	02/22/18 20:04	2/22/18	
Chrysene	<b>960</b>	770	160	2	02/22/18 20:04	2/22/18	
Di-n-butyl Phthalate	770 U	770	260	2	02/22/18 20:04	2/22/18	
Di-n-octyl Phthalate	770 U	770	240	2	02/22/18 20:04	2/22/18	
Dibenz(a,h)anthracene	770 U	770	140	2	02/22/18 20:04	2/22/18	
Dibenzofuran	770 U	770	160	2	02/22/18 20:04	2/22/18	
Diethyl Phthalate	770 U	770	420	2	02/22/18 20:04	2/22/18	
Dimethyl Phthalate	770 U	770	220	2	02/22/18 20:04	2/22/18	
Fluoranthene	<b>1600</b>	770	190	2	02/22/18 20:04	2/22/18	
Fluorene	770 U	770	200	2	02/22/18 20:04	2/22/18	
Hexachlorobenzene	770 U	770	180	2	02/22/18 20:04	2/22/18	
Hexachlorobutadiene	770 U	770	130	2	02/22/18 20:04	2/22/18	
Hexachlorocyclopentadiene	770 U	770	130	2	02/22/18 20:04	2/22/18	
Hexachloroethane	770 U	770	140	2	02/22/18 20:04	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>590 J</b>	770	170	2	02/22/18 20:04	2/22/18	
Isophorone	770 U	770	170	2	02/22/18 20:04	2/22/18	
N-Nitrosodi-n-propylamine	770 U	770	140	2	02/22/18 20:04	2/22/18	
N-Nitrosodiphenylamine	770 U	770	350	2	02/22/18 20:04	2/22/18	
Naphthalene	770 U	770	160	2	02/22/18 20:04	2/22/18	
Nitrobenzene	770 U	770	160	2	02/22/18 20:04	2/22/18	
Pentachlorophenol (PCP)	4000 U	4000	260	2	02/22/18 20:04	2/22/18	
Phenanthrene	<b>1500</b>	770	160	2	02/22/18 20:04	2/22/18	
Phenol	770 U	770	170	2	02/22/18 20:04	2/22/18	
Pyrene	<b>1600</b>	770	150	2	02/22/18 20:04	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	13 - 128	02/22/18 20:04	
2-Fluorobiphenyl	45	10 - 102	02/22/18 20:04	
2-Fluorophenol	33	16 - 129	02/22/18 20:04	
Nitrobenzene-d5	35	10 - 95	02/22/18 20:04	
Phenol-d6	41	10 - 145	02/22/18 20:04	
Terphenyl-d14	91	16 - 126	02/22/18 20:04	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2000 U	2000	580	5	02/22/18 20:31	2/22/18	
2,3,4,6-Tetrachlorophenol	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
2,4,5-Trichlorophenol	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
2,4,6-Trichlorophenol	2000 U	2000	510	5	02/22/18 20:31	2/22/18	
2,4-Dichlorophenol	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
2,4-Dimethylphenol	2000 U	2000	380	5	02/22/18 20:31	2/22/18	
2,4-Dinitrophenol	10000 U	10000	370	5	02/22/18 20:31	2/22/18	
2,4-Dinitrotoluene	2000 U	2000	520	5	02/22/18 20:31	2/22/18	
2,6-Dinitrotoluene	2000 U	2000	700	5	02/22/18 20:31	2/22/18	
2-Chloronaphthalene	2000 U	2000	440	5	02/22/18 20:31	2/22/18	
2-Chlorophenol	2000 U	2000	480	5	02/22/18 20:31	2/22/18	
2-Methylnaphthalene	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
2-Methylphenol	2000 U	2000	480	5	02/22/18 20:31	2/22/18	
2-Nitroaniline	10000 U	10000	570	5	02/22/18 20:31	2/22/18	
2-Nitrophenol	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
3,3'-Dichlorobenzidine	2000 U	2000	610	5	02/22/18 20:31	2/22/18	
3- and 4-Methylphenol Coelution	2000 U	2000	500	5	02/22/18 20:31	2/22/18	
3-Nitroaniline	10000 U	10000	430	5	02/22/18 20:31	2/22/18	
4,6-Dinitro-2-methylphenol	10000 U	10000	430	5	02/22/18 20:31	2/22/18	
4-Bromophenyl Phenyl Ether	2000 U	2000	560	5	02/22/18 20:31	2/22/18	
4-Chloro-3-methylphenol	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
4-Chloroaniline	2000 U	2000	240	5	02/22/18 20:31	2/22/18	
4-Chlorophenyl Phenyl Ether	2000 U	2000	470	5	02/22/18 20:31	2/22/18	
4-Nitroaniline	10000 U	10000	440	5	02/22/18 20:31	2/22/18	
4-Nitrophenol	10000 U	10000	1200	5	02/22/18 20:31	2/22/18	
Acenaphthene	2000 U	2000	440	5	02/22/18 20:31	2/22/18	
Acenaphthylene	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Acetophenone	2000 U	2000	460	5	02/22/18 20:31	2/22/18	
Anthracene	2000 U	2000	380	5	02/22/18 20:31	2/22/18	
Atrazine	2000 U	2000	540	5	02/22/18 20:31	2/22/18	
Benz(a)anthracene	<b>590 J</b>	2000	350	5	02/22/18 20:31	2/22/18	
Benzaldehyde	10000 U	10000	470	5	02/22/18 20:31	2/22/18	
Benzo(a)pyrene	<b>660 J</b>	2000	400	5	02/22/18 20:31	2/22/18	
Benzo(b)fluoranthene	<b>780 J</b>	2000	360	5	02/22/18 20:31	2/22/18	
Benzo(g,h,i)perylene	<b>480 J</b>	2000	450	5	02/22/18 20:31	2/22/18	
Benzo(k)fluoranthene	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
Biphenyl	2000 U	2000	460	5	02/22/18 20:31	2/22/18	
2,2'-Oxybis(1-chloropropane)	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
Bis(2-chloroethoxy)methane	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
Bis(2-chloroethyl) Ether	2000 U	2000	360	5	02/22/18 20:31	2/22/18	
Bis(2-ethylhexyl) Phthalate	3000 U	3000	2800	5	02/22/18 20:31	2/22/18	
Butyl Benzyl Phthalate	2000 U	2000	380	5	02/22/18 20:31	2/22/18	
Caprolactam	2000 U	2000	440	5	02/22/18 20:31	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
Chrysene	<b>630 J</b>	2000	390	5	02/22/18 20:31	2/22/18	
Di-n-butyl Phthalate	2000 U	2000	660	5	02/22/18 20:31	2/22/18	
Di-n-octyl Phthalate	2000 U	2000	600	5	02/22/18 20:31	2/22/18	
Dibenz(a,h)anthracene	2000 U	2000	360	5	02/22/18 20:31	2/22/18	
Dibenzofuran	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Diethyl Phthalate	2000 U	2000	1100	5	02/22/18 20:31	2/22/18	
Dimethyl Phthalate	2000 U	2000	550	5	02/22/18 20:31	2/22/18	
Fluoranthene	<b>1100 J</b>	2000	470	5	02/22/18 20:31	2/22/18	
Fluorene	2000 U	2000	500	5	02/22/18 20:31	2/22/18	
Hexachlorobenzene	2000 U	2000	460	5	02/22/18 20:31	2/22/18	
Hexachlorobutadiene	2000 U	2000	340	5	02/22/18 20:31	2/22/18	
Hexachlorocyclopentadiene	2000 U	2000	330	5	02/22/18 20:31	2/22/18	
Hexachloroethane	2000 U	2000	350	5	02/22/18 20:31	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>460 J</b>	2000	440	5	02/22/18 20:31	2/22/18	
Isophorone	2000 U	2000	430	5	02/22/18 20:31	2/22/18	
N-Nitrosodi-n-propylamine	2000 U	2000	360	5	02/22/18 20:31	2/22/18	
N-Nitrosodiphenylamine	2000 U	2000	880	5	02/22/18 20:31	2/22/18	
Naphthalene	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Nitrobenzene	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Pentachlorophenol (PCP)	10000 U	10000	660	5	02/22/18 20:31	2/22/18	
Phenanthrene	<b>570 J</b>	2000	410	5	02/22/18 20:31	2/22/18	
Phenol	2000 U	2000	430	5	02/22/18 20:31	2/22/18	
Pyrene	<b>990 J</b>	2000	390	5	02/22/18 20:31	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	13 - 128	02/22/18 20:31	
2-Fluorobiphenyl	60	10 - 102	02/22/18 20:31	
2-Fluorophenol	46	16 - 129	02/22/18 20:31	
Nitrobenzene-d5	49	10 - 95	02/22/18 20:31	
Phenol-d6	55	10 - 145	02/22/18 20:31	
Terphenyl-d14	91	16 - 126	02/22/18 20:31	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	810 U	810	240	2	02/22/18 20:59	2/22/18	
2,3,4,6-Tetrachlorophenol	810 U	810	200	2	02/22/18 20:59	2/22/18	
2,4,5-Trichlorophenol	810 U	810	210	2	02/22/18 20:59	2/22/18	
2,4,6-Trichlorophenol	810 U	810	210	2	02/22/18 20:59	2/22/18	
2,4-Dichlorophenol	810 U	810	170	2	02/22/18 20:59	2/22/18	
2,4-Dimethylphenol	810 U	810	160	2	02/22/18 20:59	2/22/18	
2,4-Dinitrophenol	4100 U	4100	160	2	02/22/18 20:59	2/22/18	
2,4-Dinitrotoluene	810 U	810	210	2	02/22/18 20:59	2/22/18	
2,6-Dinitrotoluene	810 U	810	290	2	02/22/18 20:59	2/22/18	
2-Chloronaphthalene	810 U	810	180	2	02/22/18 20:59	2/22/18	
2-Chlorophenol	810 U	810	200	2	02/22/18 20:59	2/22/18	
2-Methylnaphthalene	810 U	810	190	2	02/22/18 20:59	2/22/18	
2-Methylphenol	810 U	810	200	2	02/22/18 20:59	2/22/18	
2-Nitroaniline	4100 U	4100	240	2	02/22/18 20:59	2/22/18	
2-Nitrophenol	810 U	810	190	2	02/22/18 20:59	2/22/18	
3,3'-Dichlorobenzidine	810 U	810	250	2	02/22/18 20:59	2/22/18	
3- and 4-Methylphenol Coelution	810 U	810	210	2	02/22/18 20:59	2/22/18	
3-Nitroaniline	4100 U	4100	180	2	02/22/18 20:59	2/22/18	
4,6-Dinitro-2-methylphenol	4100 U	4100	180	2	02/22/18 20:59	2/22/18	
4-Bromophenyl Phenyl Ether	810 U	810	230	2	02/22/18 20:59	2/22/18	
4-Chloro-3-methylphenol	810 U	810	190	2	02/22/18 20:59	2/22/18	
4-Chloroaniline	810 U	810	96	2	02/22/18 20:59	2/22/18	
4-Chlorophenyl Phenyl Ether	810 U	810	200	2	02/22/18 20:59	2/22/18	
4-Nitroaniline	4100 U	4100	180	2	02/22/18 20:59	2/22/18	
4-Nitrophenol	4100 U	4100	470	2	02/22/18 20:59	2/22/18	
Acenaphthene	810 U	810	180	2	02/22/18 20:59	2/22/18	
Acenaphthylene	<b>280 J</b>	810	170	2	02/22/18 20:59	2/22/18	
Acetophenone	810 U	810	190	2	02/22/18 20:59	2/22/18	
Anthracene	<b>630 J</b>	810	160	2	02/22/18 20:59	2/22/18	
Atrazine	810 U	810	220	2	02/22/18 20:59	2/22/18	
Benz(a)anthracene	<b>3500</b>	810	150	2	02/22/18 20:59	2/22/18	
Benzaldehyde	4100 U	4100	200	2	02/22/18 20:59	2/22/18	
Benzo(a)pyrene	<b>2900</b>	810	170	2	02/22/18 20:59	2/22/18	
Benzo(b)fluoranthene	<b>3500</b>	810	150	2	02/22/18 20:59	2/22/18	
Benzo(g,h,i)perylene	<b>1400</b>	810	190	2	02/22/18 20:59	2/22/18	
Benzo(k)fluoranthene	<b>1300</b>	810	190	2	02/22/18 20:59	2/22/18	
Biphenyl	810 U	810	190	2	02/22/18 20:59	2/22/18	
2,2'-Oxybis(1-chloropropane)	810 U	810	200	2	02/22/18 20:59	2/22/18	
Bis(2-chloroethoxy)methane	810 U	810	190	2	02/22/18 20:59	2/22/18	
Bis(2-chloroethyl) Ether	810 U	810	150	2	02/22/18 20:59	2/22/18	
Bis(2-ethylhexyl) Phthalate	1200 U	1200	1200	2	02/22/18 20:59	2/22/18	
Butyl Benzyl Phthalate	810 U	810	160	2	02/22/18 20:59	2/22/18	
Caprolactam	810 U	810	180	2	02/22/18 20:59	2/22/18	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	810 U	810	200	2	02/22/18 20:59	2/22/18	
Chrysene	<b>3400</b>	810	160	2	02/22/18 20:59	2/22/18	
Di-n-butyl Phthalate	810 U	810	270	2	02/22/18 20:59	2/22/18	
Di-n-octyl Phthalate	810 U	810	250	2	02/22/18 20:59	2/22/18	
Dibenz(a,h)anthracene	<b>430 J</b>	810	150	2	02/22/18 20:59	2/22/18	
Dibenzofuran	810 U	810	170	2	02/22/18 20:59	2/22/18	
Diethyl Phthalate	810 U	810	440	2	02/22/18 20:59	2/22/18	
Dimethyl Phthalate	810 U	810	230	2	02/22/18 20:59	2/22/18	
Fluoranthene	<b>5200</b>	810	190	2	02/22/18 20:59	2/22/18	
Fluorene	810 U	810	210	2	02/22/18 20:59	2/22/18	
Hexachlorobenzene	810 U	810	190	2	02/22/18 20:59	2/22/18	
Hexachlorobutadiene	810 U	810	140	2	02/22/18 20:59	2/22/18	
Hexachlorocyclopentadiene	810 U	810	140	2	02/22/18 20:59	2/22/18	
Hexachloroethane	810 U	810	150	2	02/22/18 20:59	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>1700</b>	810	180	2	02/22/18 20:59	2/22/18	
Isophorone	810 U	810	180	2	02/22/18 20:59	2/22/18	
N-Nitrosodi-n-propylamine	810 U	810	150	2	02/22/18 20:59	2/22/18	
N-Nitrosodiphenylamine	810 U	810	360	2	02/22/18 20:59	2/22/18	
Naphthalene	810 U	810	170	2	02/22/18 20:59	2/22/18	
Nitrobenzene	810 U	810	170	2	02/22/18 20:59	2/22/18	
Pentachlorophenol (PCP)	4100 U	4100	270	2	02/22/18 20:59	2/22/18	
Phenanthrene	<b>2000</b>	810	170	2	02/22/18 20:59	2/22/18	
Phenol	810 U	810	180	2	02/22/18 20:59	2/22/18	
Pyrene	<b>5000</b>	810	160	2	02/22/18 20:59	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	92	13 - 128	02/22/18 20:59	
2-Fluorobiphenyl	45	10 - 102	02/22/18 20:59	
2-Fluorophenol	39	16 - 129	02/22/18 20:59	
Nitrobenzene-d5	41	10 - 95	02/22/18 20:59	
Phenol-d6	44	10 - 145	02/22/18 20:59	
Terphenyl-d14	92	16 - 126	02/22/18 20:59	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2400 U	2400	690	5	02/22/18 21:26	2/22/18	
2,3,4,6-Tetrachlorophenol	2400 U	2400	590	5	02/22/18 21:26	2/22/18	
2,4,5-Trichlorophenol	2400 U	2400	590	5	02/22/18 21:26	2/22/18	
2,4,6-Trichlorophenol	2400 U	2400	610	5	02/22/18 21:26	2/22/18	
2,4-Dichlorophenol	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
2,4-Dimethylphenol	2400 U	2400	450	5	02/22/18 21:26	2/22/18	
2,4-Dinitrophenol	12000 U	12000	450	5	02/22/18 21:26	2/22/18	
2,4-Dinitrotoluene	2400 U	2400	620	5	02/22/18 21:26	2/22/18	
2,6-Dinitrotoluene	2400 U	2400	830	5	02/22/18 21:26	2/22/18	
2-Chloronaphthalene	2400 U	2400	530	5	02/22/18 21:26	2/22/18	
2-Chlorophenol	2400 U	2400	580	5	02/22/18 21:26	2/22/18	
2-Methylnaphthalene	2400 U	2400	530	5	02/22/18 21:26	2/22/18	
2-Methylphenol	2400 U	2400	580	5	02/22/18 21:26	2/22/18	
2-Nitroaniline	12000 U	12000	680	5	02/22/18 21:26	2/22/18	
2-Nitrophenol	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
3,3'-Dichlorobenzidine	2400 U	2400	730	5	02/22/18 21:26	2/22/18	
3- and 4-Methylphenol Coelution	2400 U	2400	600	5	02/22/18 21:26	2/22/18	
3-Nitroaniline	12000 U	12000	510	5	02/22/18 21:26	2/22/18	
4,6-Dinitro-2-methylphenol	12000 U	12000	520	5	02/22/18 21:26	2/22/18	
4-Bromophenyl Phenyl Ether	2400 U	2400	670	5	02/22/18 21:26	2/22/18	
4-Chloro-3-methylphenol	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
4-Chloroaniline	2400 U	2400	290	5	02/22/18 21:26	2/22/18	
4-Chlorophenyl Phenyl Ether	2400 U	2400	570	5	02/22/18 21:26	2/22/18	
4-Nitroaniline	12000 U	12000	520	5	02/22/18 21:26	2/22/18	
4-Nitrophenol	12000 U	12000	1400	5	02/22/18 21:26	2/22/18	
Acenaphthene	2400 U	2400	520	5	02/22/18 21:26	2/22/18	
Acenaphthylene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Acetophenone	2400 U	2400	560	5	02/22/18 21:26	2/22/18	
Anthracene	2400 U	2400	460	5	02/22/18 21:26	2/22/18	
Atrazine	2400 U	2400	640	5	02/22/18 21:26	2/22/18	
Benz(a)anthracene	2400 U	2400	420	5	02/22/18 21:26	2/22/18	
Benzaldehyde	12000 U	12000	560	5	02/22/18 21:26	2/22/18	
Benzo(a)pyrene	2400 U	2400	480	5	02/22/18 21:26	2/22/18	
Benzo(b)fluoranthene	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
Benzo(g,h,i)perylene	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
Benzo(k)fluoranthene	2400 U	2400	530	5	02/22/18 21:26	2/22/18	
Biphenyl	2400 U	2400	560	5	02/22/18 21:26	2/22/18	
2,2'-Oxybis(1-chloropropane)	2400 U	2400	580	5	02/22/18 21:26	2/22/18	
Bis(2-chloroethoxy)methane	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
Bis(2-chloroethyl) Ether	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
Bis(2-ethylhexyl) Phthalate	3600 U	3600	3300	5	02/22/18 21:26	2/22/18	
Butyl Benzyl Phthalate	2400 U	2400	450	5	02/22/18 21:26	2/22/18	
Caprolactam	2400 U	2400	530	5	02/22/18 21:26	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	2400 U	2400	590	5	02/22/18 21:26	2/22/18	
Chrysene	2400 U	2400	470	5	02/22/18 21:26	2/22/18	
Di-n-butyl Phthalate	2400 U	2400	790	5	02/22/18 21:26	2/22/18	
Di-n-octyl Phthalate	2400 U	2400	710	5	02/22/18 21:26	2/22/18	
Dibenz(a,h)anthracene	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
Dibenzofuran	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Diethyl Phthalate	2400 U	2400	1300	5	02/22/18 21:26	2/22/18	
Dimethyl Phthalate	2400 U	2400	650	5	02/22/18 21:26	2/22/18	
Fluoranthene	2400 U	2400	560	5	02/22/18 21:26	2/22/18	
Fluorene	2400 U	2400	600	5	02/22/18 21:26	2/22/18	
Hexachlorobenzene	2400 U	2400	550	5	02/22/18 21:26	2/22/18	
Hexachlorobutadiene	2400 U	2400	400	5	02/22/18 21:26	2/22/18	
Hexachlorocyclopentadiene	2400 U	2400	400	5	02/22/18 21:26	2/22/18	
Hexachloroethane	2400 U	2400	420	5	02/22/18 21:26	2/22/18	
Indeno(1,2,3-cd)pyrene	2400 U	2400	520	5	02/22/18 21:26	2/22/18	
Isophorone	2400 U	2400	510	5	02/22/18 21:26	2/22/18	
N-Nitrosodi-n-propylamine	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
N-Nitrosodiphenylamine	2400 U	2400	1100	5	02/22/18 21:26	2/22/18	
Naphthalene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Nitrobenzene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Pentachlorophenol (PCP)	12000 U	12000	790	5	02/22/18 21:26	2/22/18	
Phenanthrene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Phenol	2400 U	2400	520	5	02/22/18 21:26	2/22/18	
Pyrene	2400 U	2400	460	5	02/22/18 21:26	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	55	13 - 128	02/22/18 21:26	
2-Fluorobiphenyl	52	10 - 102	02/22/18 21:26	
2-Fluorophenol	35	16 - 129	02/22/18 21:26	
Nitrobenzene-d5	47	10 - 95	02/22/18 21:26	
Phenol-d6	41	10 - 145	02/22/18 21:26	
Terphenyl-d14	67	16 - 126	02/22/18 21:26	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	110	1	02/22/18 21:54	2/22/18	
2,3,4,6-Tetrachlorophenol	380 U	380	94	1	02/22/18 21:54	2/22/18	
2,4,5-Trichlorophenol	380 U	380	95	1	02/22/18 21:54	2/22/18	
2,4,6-Trichlorophenol	380 U	380	98	1	02/22/18 21:54	2/22/18	
2,4-Dichlorophenol	380 U	380	78	1	02/22/18 21:54	2/22/18	
2,4-Dimethylphenol	380 U	380	72	1	02/22/18 21:54	2/22/18	
2,4-Dinitrophenol	1900 U	1900	71	1	02/22/18 21:54	2/22/18	
2,4-Dinitrotoluene	380 U	380	99	1	02/22/18 21:54	2/22/18	
2,6-Dinitrotoluene	380 U	380	140	1	02/22/18 21:54	2/22/18	
2-Chloronaphthalene	380 U	380	84	1	02/22/18 21:54	2/22/18	
2-Chlorophenol	380 U	380	92	1	02/22/18 21:54	2/22/18	
2-Methylnaphthalene	380 U	380	85	1	02/22/18 21:54	2/22/18	
2-Methylphenol	380 U	380	92	1	02/22/18 21:54	2/22/18	
2-Nitroaniline	1900 U	1900	110	1	02/22/18 21:54	2/22/18	
2-Nitrophenol	380 U	380	86	1	02/22/18 21:54	2/22/18	
3,3'-Dichlorobenzidine	380 U	380	120	1	02/22/18 21:54	2/22/18	
3- and 4-Methylphenol Coelution	380 U	380	96	1	02/22/18 21:54	2/22/18	
3-Nitroaniline	1900 U	1900	82	1	02/22/18 21:54	2/22/18	
4,6-Dinitro-2-methylphenol	1900 U	1900	82	1	02/22/18 21:54	2/22/18	
4-Bromophenyl Phenyl Ether	380 U	380	110	1	02/22/18 21:54	2/22/18	
4-Chloro-3-methylphenol	380 U	380	87	1	02/22/18 21:54	2/22/18	
4-Chloroaniline	380 U	380	46	1	02/22/18 21:54	2/22/18	
4-Chlorophenyl Phenyl Ether	380 U	380	90	1	02/22/18 21:54	2/22/18	
4-Nitroaniline	1900 U	1900	84	1	02/22/18 21:54	2/22/18	
4-Nitrophenol	1900 U	1900	220	1	02/22/18 21:54	2/22/18	
Acenaphthene	380 U	380	84	1	02/22/18 21:54	2/22/18	
Acenaphthylene	380 U	380	77	1	02/22/18 21:54	2/22/18	
Acetophenone	380 U	380	89	1	02/22/18 21:54	2/22/18	
Anthracene	380 U	380	73	1	02/22/18 21:54	2/22/18	
Atrazine	380 U	380	110	1	02/22/18 21:54	2/22/18	
Benz(a)anthracene	380 U	380	66	1	02/22/18 21:54	2/22/18	
Benzaldehyde	1900 U	1900	90	1	02/22/18 21:54	2/22/18	
Benzo(a)pyrene	380 U	380	76	1	02/22/18 21:54	2/22/18	
Benzo(b)fluoranthene	380 U	380	69	1	02/22/18 21:54	2/22/18	
Benzo(g,h,i)perylene	380 U	380	86	1	02/22/18 21:54	2/22/18	
Benzo(k)fluoranthene	380 U	380	85	1	02/22/18 21:54	2/22/18	
Biphenyl	380 U	380	89	1	02/22/18 21:54	2/22/18	
2,2'-Oxybis(1-chloropropane)	380 U	380	93	1	02/22/18 21:54	2/22/18	
Bis(2-chloroethoxy)methane	380 U	380	87	1	02/22/18 21:54	2/22/18	
Bis(2-chloroethyl) Ether	380 U	380	69	1	02/22/18 21:54	2/22/18	
Bis(2-ethylhexyl) Phthalate	570 U	570	530	1	02/22/18 21:54	2/22/18	
Butyl Benzyl Phthalate	380 U	380	72	1	02/22/18 21:54	2/22/18	
Caprolactam	380 U	380	84	1	02/22/18 21:54	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	94	1	02/22/18 21:54	2/22/18	
Chrysene	380 U	380	75	1	02/22/18 21:54	2/22/18	
Di-n-butyl Phthalate	380 U	380	130	1	02/22/18 21:54	2/22/18	
Di-n-octyl Phthalate	380 U	380	120	1	02/22/18 21:54	2/22/18	
Dibenz(a,h)anthracene	380 U	380	69	1	02/22/18 21:54	2/22/18	
Dibenzofuran	380 U	380	78	1	02/22/18 21:54	2/22/18	
Diethyl Phthalate	380 U	380	210	1	02/22/18 21:54	2/22/18	
Dimethyl Phthalate	380 U	380	110	1	02/22/18 21:54	2/22/18	
Fluoranthene	380 U	380	89	1	02/22/18 21:54	2/22/18	
Fluorene	380 U	380	95	1	02/22/18 21:54	2/22/18	
Hexachlorobenzene	380 U	380	88	1	02/22/18 21:54	2/22/18	
Hexachlorobutadiene	380 U	380	64	1	02/22/18 21:54	2/22/18	
Hexachlorocyclopentadiene	380 U	380	63	1	02/22/18 21:54	2/22/18	
Hexachloroethane	380 U	380	66	1	02/22/18 21:54	2/22/18	
Indeno(1,2,3-cd)pyrene	380 U	380	84	1	02/22/18 21:54	2/22/18	
Isophorone	380 U	380	82	1	02/22/18 21:54	2/22/18	
N-Nitrosodi-n-propylamine	380 U	380	69	1	02/22/18 21:54	2/22/18	
N-Nitrosodiphenylamine	380 U	380	170	1	02/22/18 21:54	2/22/18	
Naphthalene	380 U	380	78	1	02/22/18 21:54	2/22/18	
Nitrobenzene	380 U	380	78	1	02/22/18 21:54	2/22/18	
Pentachlorophenol (PCP)	1900 U	1900	130	1	02/22/18 21:54	2/22/18	
Phenanthrene	380 U	380	79	1	02/22/18 21:54	2/22/18	
Phenol	380 U	380	83	1	02/22/18 21:54	2/22/18	
Pyrene	380 U	380	74	1	02/22/18 21:54	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	13 - 128	02/22/18 21:54	
2-Fluorobiphenyl	25	10 - 102	02/22/18 21:54	
2-Fluorophenol	17	16 - 129	02/22/18 21:54	
Nitrobenzene-d5	19	10 - 95	02/22/18 21:54	
Phenol-d6	21	10 - 145	02/22/18 21:54	
Terphenyl-d14	98	16 - 126	02/22/18 21:54	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 09:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	430 U	430	130	1	02/22/18 22:21	2/22/18	
2,3,4,6-Tetrachlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2,4,5-Trichlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2,4,6-Trichlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2,4-Dichlorophenol	430 U	430	88	1	02/22/18 22:21	2/22/18	
2,4-Dimethylphenol	430 U	430	82	1	02/22/18 22:21	2/22/18	
2,4-Dinitrophenol	2200 U	2200	80	1	02/22/18 22:21	2/22/18	
2,4-Dinitrotoluene	430 U	430	120	1	02/22/18 22:21	2/22/18	
2,6-Dinitrotoluene	430 U	430	150	1	02/22/18 22:21	2/22/18	
2-Chloronaphthalene	430 U	430	95	1	02/22/18 22:21	2/22/18	
2-Chlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2-Methylnaphthalene	430 U	430	96	1	02/22/18 22:21	2/22/18	
2-Methylphenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2-Nitroaniline	2200 U	2200	130	1	02/22/18 22:21	2/22/18	
2-Nitrophenol	430 U	430	97	1	02/22/18 22:21	2/22/18	
3,3'-Dichlorobenzidine	430 U	430	140	1	02/22/18 22:21	2/22/18	
3- and 4-Methylphenol Coelution	430 U	430	110	1	02/22/18 22:21	2/22/18	
3-Nitroaniline	2200 U	2200	93	1	02/22/18 22:21	2/22/18	
4,6-Dinitro-2-methylphenol	2200 U	2200	93	1	02/22/18 22:21	2/22/18	
4-Bromophenyl Phenyl Ether	430 U	430	130	1	02/22/18 22:21	2/22/18	
4-Chloro-3-methylphenol	430 U	430	97	1	02/22/18 22:21	2/22/18	
4-Chloroaniline	430 U	430	51	1	02/22/18 22:21	2/22/18	
4-Chlorophenyl Phenyl Ether	430 U	430	110	1	02/22/18 22:21	2/22/18	
4-Nitroaniline	2200 U	2200	94	1	02/22/18 22:21	2/22/18	
4-Nitrophenol	2200 U	2200	250	1	02/22/18 22:21	2/22/18	
Acenaphthene	430 U	430	94	1	02/22/18 22:21	2/22/18	
Acenaphthylene	430 U	430	87	1	02/22/18 22:21	2/22/18	
Acetophenone	430 U	430	100	1	02/22/18 22:21	2/22/18	
Anthracene	290 J	430	83	1	02/22/18 22:21	2/22/18	
Atrazine	430 U	430	120	1	02/22/18 22:21	2/22/18	
Benz(a)anthracene	1000	430	75	1	02/22/18 22:21	2/22/18	
Benzaldehyde	2200 U	2200	110	1	02/22/18 22:21	2/22/18	
Benzo(a)pyrene	1400	430	86	1	02/22/18 22:21	2/22/18	
Benzo(b)fluoranthene	1700	430	78	1	02/22/18 22:21	2/22/18	
Benzo(g,h,i)perylene	1000	430	97	1	02/22/18 22:21	2/22/18	
Benzo(k)fluoranthene	590	430	96	1	02/22/18 22:21	2/22/18	
Biphenyl	430 U	430	100	1	02/22/18 22:21	2/22/18	
2,2'-Oxybis(1-chloropropane)	430 U	430	110	1	02/22/18 22:21	2/22/18	
Bis(2-chloroethoxy)methane	430 U	430	98	1	02/22/18 22:21	2/22/18	
Bis(2-chloroethyl) Ether	430 U	430	78	1	02/22/18 22:21	2/22/18	
Bis(2-ethylhexyl) Phthalate	650 U	650	600	1	02/22/18 22:21	2/22/18	
Butyl Benzyl Phthalate	430 U	430	82	1	02/22/18 22:21	2/22/18	
Caprolactam	430 U	430	95	1	02/22/18 22:21	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 09:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	430 U	430	110	1	02/22/18 22:21	2/22/18	
Chrysene	<b>1100</b>	430	84	1	02/22/18 22:21	2/22/18	
Di-n-butyl Phthalate	430 U	430	150	1	02/22/18 22:21	2/22/18	
Di-n-octyl Phthalate	430 U	430	130	1	02/22/18 22:21	2/22/18	
Dibenz(a,h)anthracene	<b>220 J</b>	430	78	1	02/22/18 22:21	2/22/18	
Dibenzofuran	<b>130 J</b>	430	87	1	02/22/18 22:21	2/22/18	
Diethyl Phthalate	430 U	430	240	1	02/22/18 22:21	2/22/18	
Dimethyl Phthalate	430 U	430	120	1	02/22/18 22:21	2/22/18	
Fluoranthene	<b>1700</b>	430	100	1	02/22/18 22:21	2/22/18	
Fluorene	430 U	430	110	1	02/22/18 22:21	2/22/18	
Hexachlorobenzene	430 U	430	100	1	02/22/18 22:21	2/22/18	
Hexachlorobutadiene	430 U	430	72	1	02/22/18 22:21	2/22/18	
Hexachlorocyclopentadiene	430 U	430	71	1	02/22/18 22:21	2/22/18	
Hexachloroethane	430 U	430	75	1	02/22/18 22:21	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>1100</b>	430	94	1	02/22/18 22:21	2/22/18	
Isophorone	430 U	430	92	1	02/22/18 22:21	2/22/18	
N-Nitrosodi-n-propylamine	430 U	430	78	1	02/22/18 22:21	2/22/18	
N-Nitrosodiphenylamine	430 U	430	190	1	02/22/18 22:21	2/22/18	
Naphthalene	<b>120 J</b>	430	88	1	02/22/18 22:21	2/22/18	
Nitrobenzene	430 U	430	88	1	02/22/18 22:21	2/22/18	
Pentachlorophenol (PCP)	2200 U	2200	150	1	02/22/18 22:21	2/22/18	
Phenanthrene	<b>1100</b>	430	89	1	02/22/18 22:21	2/22/18	
Phenol	430 U	430	94	1	02/22/18 22:21	2/22/18	
Pyrene	<b>1600</b>	430	83	1	02/22/18 22:21	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	98	13 - 128	02/22/18 22:21	
2-Fluorobiphenyl	43	10 - 102	02/22/18 22:21	
2-Fluorophenol	35	16 - 129	02/22/18 22:21	
Nitrobenzene-d5	34	10 - 95	02/22/18 22:21	
Phenol-d6	42	10 - 145	02/22/18 22:21	
Terphenyl-d14	99	16 - 126	02/22/18 22:21	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 11:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	110	1	02/22/18 22:49	2/22/18	
2,3,4,6-Tetrachlorophenol	380 U	380	94	1	02/22/18 22:49	2/22/18	
2,4,5-Trichlorophenol	380 U	380	94	1	02/22/18 22:49	2/22/18	
2,4,6-Trichlorophenol	380 U	380	98	1	02/22/18 22:49	2/22/18	
2,4-Dichlorophenol	380 U	380	78	1	02/22/18 22:49	2/22/18	
2,4-Dimethylphenol	380 U	380	72	1	02/22/18 22:49	2/22/18	
2,4-Dinitrophenol	1900 U	1900	71	1	02/22/18 22:49	2/22/18	
2,4-Dinitrotoluene	380 U	380	99	1	02/22/18 22:49	2/22/18	
2,6-Dinitrotoluene	380 U	380	140	1	02/22/18 22:49	2/22/18	
2-Chloronaphthalene	380 U	380	84	1	02/22/18 22:49	2/22/18	
2-Chlorophenol	380 U	380	92	1	02/22/18 22:49	2/22/18	
2-Methylnaphthalene	380 U	380	85	1	02/22/18 22:49	2/22/18	
2-Methylphenol	380 U	380	92	1	02/22/18 22:49	2/22/18	
2-Nitroaniline	1900 U	1900	110	1	02/22/18 22:49	2/22/18	
2-Nitrophenol	380 U	380	86	1	02/22/18 22:49	2/22/18	
3,3'-Dichlorobenzidine	380 U	380	120	1	02/22/18 22:49	2/22/18	
3- and 4-Methylphenol Coelution	380 U	380	95	1	02/22/18 22:49	2/22/18	
3-Nitroaniline	1900 U	1900	82	1	02/22/18 22:49	2/22/18	
4,6-Dinitro-2-methylphenol	1900 U	1900	82	1	02/22/18 22:49	2/22/18	
4-Bromophenyl Phenyl Ether	380 U	380	110	1	02/22/18 22:49	2/22/18	
4-Chloro-3-methylphenol	380 U	380	86	1	02/22/18 22:49	2/22/18	
4-Chloroaniline	380 U	380	46	1	02/22/18 22:49	2/22/18	
4-Chlorophenyl Phenyl Ether	380 U	380	90	1	02/22/18 22:49	2/22/18	
4-Nitroaniline	1900 U	1900	84	1	02/22/18 22:49	2/22/18	
4-Nitrophenol	1900 U	1900	220	1	02/22/18 22:49	2/22/18	
Acenaphthene	380 U	380	84	1	02/22/18 22:49	2/22/18	
Acenaphthylene	130 J	380	77	1	02/22/18 22:49	2/22/18	
Acetophenone	380 U	380	88	1	02/22/18 22:49	2/22/18	
Anthracene	370 J	380	73	1	02/22/18 22:49	2/22/18	
Atrazine	380 U	380	110	1	02/22/18 22:49	2/22/18	
Benz(a)anthracene	950	380	66	1	02/22/18 22:49	2/22/18	
Benzaldehyde	1900 U	1900	90	1	02/22/18 22:49	2/22/18	
Benzo(a)pyrene	920	380	76	1	02/22/18 22:49	2/22/18	
Benzo(b)fluoranthene	1200	380	69	1	02/22/18 22:49	2/22/18	
Benzo(g,h,i)perylene	480	380	86	1	02/22/18 22:49	2/22/18	
Benzo(k)fluoranthene	500	380	85	1	02/22/18 22:49	2/22/18	
Biphenyl	380 U	380	89	1	02/22/18 22:49	2/22/18	
2,2'-Oxybis(1-chloropropane)	380 U	380	93	1	02/22/18 22:49	2/22/18	
Bis(2-chloroethoxy)methane	380 U	380	87	1	02/22/18 22:49	2/22/18	
Bis(2-chloroethyl) Ether	380 U	380	69	1	02/22/18 22:49	2/22/18	
Bis(2-ethylhexyl) Phthalate	570 U	570	530	1	02/22/18 22:49	2/22/18	
Butyl Benzyl Phthalate	470	380	72	1	02/22/18 22:49	2/22/18	
Caprolactam	380 U	380	84	1	02/22/18 22:49	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 11:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	140 J	380	94	1	02/22/18 22:49	2/22/18	
Chrysene	980	380	75	1	02/22/18 22:49	2/22/18	
Di-n-butyl Phthalate	380 U	380	130	1	02/22/18 22:49	2/22/18	
Di-n-octyl Phthalate	380 U	380	120	1	02/22/18 22:49	2/22/18	
Dibenz(a,h)anthracene	130 J	380	69	1	02/22/18 22:49	2/22/18	
Dibenzofuran	380 U	380	78	1	02/22/18 22:49	2/22/18	
Diethyl Phthalate	380 U	380	210	1	02/22/18 22:49	2/22/18	
Dimethyl Phthalate	380 U	380	110	1	02/22/18 22:49	2/22/18	
Fluoranthene	1900	380	89	1	02/22/18 22:49	2/22/18	
Fluorene	110 J	380	95	1	02/22/18 22:49	2/22/18	
Hexachlorobenzene	380 U	380	88	1	02/22/18 22:49	2/22/18	
Hexachlorobutadiene	380 U	380	64	1	02/22/18 22:49	2/22/18	
Hexachlorocyclopentadiene	380 U	380	63	1	02/22/18 22:49	2/22/18	
Hexachloroethane	380 U	380	66	1	02/22/18 22:49	2/22/18	
Indeno(1,2,3-cd)pyrene	570	380	84	1	02/22/18 22:49	2/22/18	
Isophorone	380 U	380	82	1	02/22/18 22:49	2/22/18	
N-Nitrosodi-n-propylamine	380 U	380	69	1	02/22/18 22:49	2/22/18	
N-Nitrosodiphenylamine	380 U	380	170	1	02/22/18 22:49	2/22/18	
Naphthalene	380 U	380	78	1	02/22/18 22:49	2/22/18	
Nitrobenzene	380 U	380	78	1	02/22/18 22:49	2/22/18	
Pentachlorophenol (PCP)	1900 U	1900	130	1	02/22/18 22:49	2/22/18	
Phenanthrene	1200	380	79	1	02/22/18 22:49	2/22/18	
Phenol	380 U	380	83	1	02/22/18 22:49	2/22/18	
Pyrene	1600	380	74	1	02/22/18 22:49	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	13 - 128	02/22/18 22:49	
2-Fluorobiphenyl	38	10 - 102	02/22/18 22:49	
2-Fluorophenol	36	16 - 129	02/22/18 22:49	
Nitrobenzene-d5	39	10 - 95	02/22/18 22:49	
Phenol-d6	38	10 - 145	02/22/18 22:49	
Terphenyl-d14	96	16 - 126	02/22/18 22:49	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 12:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1900 U	1900	560	5	02/22/18 23:17	2/22/18	
2,3,4,6-Tetrachlorophenol	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
2,4,5-Trichlorophenol	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
2,4,6-Trichlorophenol	1900 U	1900	500	5	02/22/18 23:17	2/22/18	
2,4-Dichlorophenol	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
2,4-Dimethylphenol	1900 U	1900	370	5	02/22/18 23:17	2/22/18	
2,4-Dinitrophenol	9800 U	9800	360	5	02/22/18 23:17	2/22/18	
2,4-Dinitrotoluene	1900 U	1900	500	5	02/22/18 23:17	2/22/18	
2,6-Dinitrotoluene	1900 U	1900	670	5	02/22/18 23:17	2/22/18	
2-Chloronaphthalene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
2-Chlorophenol	1900 U	1900	470	5	02/22/18 23:17	2/22/18	
2-Methylnaphthalene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
2-Methylphenol	1900 U	1900	470	5	02/22/18 23:17	2/22/18	
2-Nitroaniline	9800 U	9800	550	5	02/22/18 23:17	2/22/18	
2-Nitrophenol	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
3,3'-Dichlorobenzidine	1900 U	1900	590	5	02/22/18 23:17	2/22/18	
3- and 4-Methylphenol Coelution	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
3-Nitroaniline	9800 U	9800	420	5	02/22/18 23:17	2/22/18	
4,6-Dinitro-2-methylphenol	9800 U	9800	420	5	02/22/18 23:17	2/22/18	
4-Bromophenyl Phenyl Ether	1900 U	1900	550	5	02/22/18 23:17	2/22/18	
4-Chloro-3-methylphenol	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
4-Chloroaniline	1900 U	1900	230	5	02/22/18 23:17	2/22/18	
4-Chlorophenyl Phenyl Ether	1900 U	1900	460	5	02/22/18 23:17	2/22/18	
4-Nitroaniline	9800 U	9800	420	5	02/22/18 23:17	2/22/18	
4-Nitrophenol	9800 U	9800	1200	5	02/22/18 23:17	2/22/18	
Acenaphthene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
Acenaphthylene	1900 U	1900	390	5	02/22/18 23:17	2/22/18	
Acetophenone	1900 U	1900	450	5	02/22/18 23:17	2/22/18	
Anthracene	1900 U	1900	370	5	02/22/18 23:17	2/22/18	
Atrazine	1900 U	1900	520	5	02/22/18 23:17	2/22/18	
Benz(a)anthracene	<b>490 J</b>	1900	340	5	02/22/18 23:17	2/22/18	
Benzaldehyde	9800 U	9800	460	5	02/22/18 23:17	2/22/18	
Benzo(a)pyrene	<b>590 J</b>	1900	390	5	02/22/18 23:17	2/22/18	
Benzo(b)fluoranthene	<b>740 J</b>	1900	350	5	02/22/18 23:17	2/22/18	
Benzo(g,h,i)perylene	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
Benzo(k)fluoranthene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
Biphenyl	1900 U	1900	450	5	02/22/18 23:17	2/22/18	
2,2'-Oxybis(1-chloropropane)	1900 U	1900	470	5	02/22/18 23:17	2/22/18	
Bis(2-chloroethoxy)methane	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
Bis(2-chloroethyl) Ether	1900 U	1900	350	5	02/22/18 23:17	2/22/18	
Bis(2-ethylhexyl) Phthalate	2900 U	2900	2700	5	02/22/18 23:17	2/22/18	
Butyl Benzyl Phthalate	1900 U	1900	370	5	02/22/18 23:17	2/22/18	
Caprolactam	1900 U	1900	430	5	02/22/18 23:17	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 12:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
Chrysene	<b>480 J</b>	1900	380	5	02/22/18 23:17	2/22/18	
Di-n-butyl Phthalate	1900 U	1900	640	5	02/22/18 23:17	2/22/18	
Di-n-octyl Phthalate	1900 U	1900	580	5	02/22/18 23:17	2/22/18	
Dibenz(a,h)anthracene	1900 U	1900	350	5	02/22/18 23:17	2/22/18	
Dibenzofuran	1900 U	1900	390	5	02/22/18 23:17	2/22/18	
Diethyl Phthalate	1900 U	1900	1100	5	02/22/18 23:17	2/22/18	
Dimethyl Phthalate	1900 U	1900	530	5	02/22/18 23:17	2/22/18	
Fluoranthene	<b>790 J</b>	1900	450	5	02/22/18 23:17	2/22/18	
Fluorene	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
Hexachlorobenzene	1900 U	1900	450	5	02/22/18 23:17	2/22/18	
Hexachlorobutadiene	1900 U	1900	330	5	02/22/18 23:17	2/22/18	
Hexachlorocyclopentadiene	1900 U	1900	320	5	02/22/18 23:17	2/22/18	
Hexachloroethane	1900 U	1900	340	5	02/22/18 23:17	2/22/18	
Indeno(1,2,3-cd)pyrene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
Isophorone	1900 U	1900	420	5	02/22/18 23:17	2/22/18	
N-Nitrosodi-n-propylamine	1900 U	1900	350	5	02/22/18 23:17	2/22/18	
N-Nitrosodiphenylamine	1900 U	1900	860	5	02/22/18 23:17	2/22/18	
Naphthalene	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
Nitrobenzene	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
Pentachlorophenol (PCP)	9800 U	9800	640	5	02/22/18 23:17	2/22/18	
Phenanthrene	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
Phenol	1900 U	1900	420	5	02/22/18 23:17	2/22/18	
Pyrene	<b>730 J</b>	1900	380	5	02/22/18 23:17	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	13 - 128	02/22/18 23:17	
2-Fluorobiphenyl	57	10 - 102	02/22/18 23:17	
2-Fluorophenol	48	16 - 129	02/22/18 23:17	
Nitrobenzene-d5	46	10 - 95	02/22/18 23:17	
Phenol-d6	55	10 - 145	02/22/18 23:17	
Terphenyl-d14	80	16 - 126	02/22/18 23:17	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 13:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	900 U	900	270	2	02/27/18 10:56	2/22/18	
2,3,4,6-Tetrachlorophenol	900 U	900	230	2	02/27/18 10:56	2/22/18	
2,4,5-Trichlorophenol	900 U	900	230	2	02/27/18 10:56	2/22/18	
2,4,6-Trichlorophenol	900 U	900	240	2	02/27/18 10:56	2/22/18	
2,4-Dichlorophenol	900 U	900	190	2	02/27/18 10:56	2/22/18	
2,4-Dimethylphenol	900 U	900	180	2	02/27/18 10:56	2/22/18	
2,4-Dinitrophenol	4700 U	4700	170	2	02/27/18 10:56	2/22/18	
2,4-Dinitrotoluene	900 U	900	240	2	02/27/18 10:56	2/22/18	
2,6-Dinitrotoluene	900 U	900	320	2	02/27/18 10:56	2/22/18	
2-Chloronaphthalene	900 U	900	200	2	02/27/18 10:56	2/22/18	
2-Chlorophenol	900 U	900	220	2	02/27/18 10:56	2/22/18	
2-Methylnaphthalene	900 U	900	210	2	02/27/18 10:56	2/22/18	
2-Methylphenol	900 U	900	220	2	02/27/18 10:56	2/22/18	
2-Nitroaniline	4700 U	4700	260	2	02/27/18 10:56	2/22/18	
2-Nitrophenol	900 U	900	210	2	02/27/18 10:56	2/22/18	
3,3'-Dichlorobenzidine	900 U	900	280	2	02/27/18 10:56	2/22/18	
3- and 4-Methylphenol Coelution	900 U	900	230	2	02/27/18 10:56	2/22/18	
3-Nitroaniline	4700 U	4700	200	2	02/27/18 10:56	2/22/18	
4,6-Dinitro-2-methylphenol	4700 U	4700	200	2	02/27/18 10:56	2/22/18	
4-Bromophenyl Phenyl Ether	900 U	900	260	2	02/27/18 10:56	2/22/18	
4-Chloro-3-methylphenol	900 U	900	210	2	02/27/18 10:56	2/22/18	
4-Chloroaniline	900 U	900	110	2	02/27/18 10:56	2/22/18	
4-Chlorophenyl Phenyl Ether	900 U	900	220	2	02/27/18 10:56	2/22/18	
4-Nitroaniline	4700 U	4700	200	2	02/27/18 10:56	2/22/18	
4-Nitrophenol	4700 U	4700	530	2	02/27/18 10:56	2/22/18	
Acenaphthene	900 U	900	200	2	02/27/18 10:56	2/22/18	
Acenaphthylene	760 J	900	190	2	02/27/18 10:56	2/22/18	
Acetophenone	900 U	900	220	2	02/27/18 10:56	2/22/18	
Anthracene	2300	900	180	2	02/27/18 10:56	2/22/18	
Atrazine	900 U	900	250	2	02/27/18 10:56	2/22/18	
Benz(a)anthracene	4000	900	160	2	02/27/18 10:56	2/22/18	
Benzaldehyde	4700 U	4700	220	2	02/27/18 10:56	2/22/18	
Benzo(a)pyrene	3500	900	190	2	02/27/18 10:56	2/22/18	
Benzo(b)fluoranthene	3600	900	170	2	02/27/18 10:56	2/22/18	
Benzo(g,h,i)perylene	1700	900	210	2	02/27/18 10:56	2/22/18	
Benzo(k)fluoranthene	1500	900	210	2	02/27/18 10:56	2/22/18	
Biphenyl	900 U	900	220	2	02/27/18 10:56	2/22/18	
2,2'-Oxybis(1-chloropropane)	900 U	900	230	2	02/27/18 10:56	2/22/18	
Bis(2-chloroethoxy)methane	900 U	900	210	2	02/27/18 10:56	2/22/18	
Bis(2-chloroethyl) Ether	900 U	900	170	2	02/27/18 10:56	2/22/18	
Bis(2-ethylhexyl) Phthalate	1400 U	1400	1300	2	02/27/18 10:56	2/22/18	
Butyl Benzyl Phthalate	900 U	900	180	2	02/27/18 10:56	2/22/18	
Caprolactam	900 U	900	210	2	02/27/18 10:56	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 13:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>460 J</b>	900	230	2	02/27/18 10:56	2/22/18	
Chrysene	<b>3500</b>	900	180	2	02/27/18 10:56	2/22/18	
Di-n-butyl Phthalate	900 U	900	310	2	02/27/18 10:56	2/22/18	
Di-n-octyl Phthalate	900 U	900	280	2	02/27/18 10:56	2/22/18	
Dibenz(a,h)anthracene	<b>530 J</b>	900	170	2	02/27/18 10:56	2/22/18	
Dibenzofuran	<b>500 J</b>	900	190	2	02/27/18 10:56	2/22/18	
Diethyl Phthalate	900 U	900	500	2	02/27/18 10:56	2/22/18	
Dimethyl Phthalate	900 U	900	250	2	02/27/18 10:56	2/22/18	
Fluoranthene	<b>8700</b>	900	220	2	02/27/18 10:56	2/22/18	
Fluorene	<b>930</b>	900	230	2	02/27/18 10:56	2/22/18	
Hexachlorobenzene	900 U	900	220	2	02/27/18 10:56	2/22/18	
Hexachlorobutadiene	900 U	900	160	2	02/27/18 10:56	2/22/18	
Hexachlorocyclopentadiene	900 U	900	150	2	02/27/18 10:56	2/22/18	
Hexachloroethane	900 U	900	160	2	02/27/18 10:56	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>2300</b>	900	200	2	02/27/18 10:56	2/22/18	
Isophorone	900 U	900	200	2	02/27/18 10:56	2/22/18	
N-Nitrosodi-n-propylamine	900 U	900	170	2	02/27/18 10:56	2/22/18	
N-Nitrosodiphenylamine	900 U	900	410	2	02/27/18 10:56	2/22/18	
Naphthalene	900 U	900	190	2	02/27/18 10:56	2/22/18	
Nitrobenzene	900 U	900	190	2	02/27/18 10:56	2/22/18	
Pentachlorophenol (PCP)	4700 U	4700	300	2	02/27/18 10:56	2/22/18	
Phenanthrene	<b>7700</b>	900	190	2	02/27/18 10:56	2/22/18	
Phenol	900 U	900	200	2	02/27/18 10:56	2/22/18	
Pyrene	<b>7000</b>	900	180	2	02/27/18 10:56	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	13 - 128	02/27/18 10:56	
2-Fluorobiphenyl	45	10 - 102	02/27/18 10:56	
2-Fluorophenol	43	16 - 129	02/27/18 10:56	
Nitrobenzene-d5	45	10 - 95	02/27/18 10:56	
Phenol-d6	44	10 - 145	02/27/18 10:56	
Terphenyl-d14	90	16 - 126	02/27/18 10:56	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2000 U	2000	590	5	02/27/18 11:24	2/22/18	
2,3,4,6-Tetrachlorophenol	2000 U	2000	500	5	02/27/18 11:24	2/22/18	
2,4,5-Trichlorophenol	2000 U	2000	500	5	02/27/18 11:24	2/22/18	
2,4,6-Trichlorophenol	2000 U	2000	520	5	02/27/18 11:24	2/22/18	
2,4-Dichlorophenol	2000 U	2000	420	5	02/27/18 11:24	2/22/18	
2,4-Dimethylphenol	2000 U	2000	390	5	02/27/18 11:24	2/22/18	
2,4-Dinitrophenol	10000 U	10000	380	5	02/27/18 11:24	2/22/18	
2,4-Dinitrotoluene	2000 U	2000	530	5	02/27/18 11:24	2/22/18	
2,6-Dinitrotoluene	2000 U	2000	710	5	02/27/18 11:24	2/22/18	
2-Chloronaphthalene	2000 U	2000	450	5	02/27/18 11:24	2/22/18	
2-Chlorophenol	2000 U	2000	490	5	02/27/18 11:24	2/22/18	
2-Methylnaphthalene	<b>5500</b>	2000	450	5	02/27/18 11:24	2/22/18	
2-Methylphenol	2000 U	2000	490	5	02/27/18 11:24	2/22/18	
2-Nitroaniline	10000 U	10000	580	5	02/27/18 11:24	2/22/18	
2-Nitrophenol	2000 U	2000	460	5	02/27/18 11:24	2/22/18	
3,3'-Dichlorobenzidine	2000 U	2000	620	5	02/27/18 11:24	2/22/18	
3- and 4-Methylphenol Coelution	2000 U	2000	510	5	02/27/18 11:24	2/22/18	
3-Nitroaniline	10000 U	10000	440	5	02/27/18 11:24	2/22/18	
4,6-Dinitro-2-methylphenol	10000 U	10000	440	5	02/27/18 11:24	2/22/18	
4-Bromophenyl Phenyl Ether	2000 U	2000	570	5	02/27/18 11:24	2/22/18	
4-Chloro-3-methylphenol	2000 U	2000	460	5	02/27/18 11:24	2/22/18	
4-Chloroaniline	2000 U	2000	240	5	02/27/18 11:24	2/22/18	
4-Chlorophenyl Phenyl Ether	2000 U	2000	480	5	02/27/18 11:24	2/22/18	
4-Nitroaniline	10000 U	10000	450	5	02/27/18 11:24	2/22/18	
4-Nitrophenol	10000 U	10000	1200	5	02/27/18 11:24	2/22/18	
Acenaphthene	<b>2700</b>	2000	450	5	02/27/18 11:24	2/22/18	
Acenaphthylene	2000 U	2000	410	5	02/27/18 11:24	2/22/18	
Acetophenone	2000 U	2000	470	5	02/27/18 11:24	2/22/18	
Anthracene	<b>3800</b>	2000	390	5	02/27/18 11:24	2/22/18	
Atrazine	2000 U	2000	550	5	02/27/18 11:24	2/22/18	
Benz(a)anthracene	<b>7800</b>	2000	350	5	02/27/18 11:24	2/22/18	
Benzaldehyde	10000 U	10000	480	5	02/27/18 11:24	2/22/18	
Benzo(a)pyrene	<b>8600</b>	2000	410	5	02/27/18 11:24	2/22/18	
Benzo(b)fluoranthene	<b>9800</b>	2000	370	5	02/27/18 11:24	2/22/18	
Benzo(g,h,i)perylene	<b>5500</b>	2000	460	5	02/27/18 11:24	2/22/18	
Benzo(k)fluoranthene	<b>3700</b>	2000	450	5	02/27/18 11:24	2/22/18	
Biphenyl	2000 U	2000	470	5	02/27/18 11:24	2/22/18	
2,2'-Oxybis(1-chloropropane)	2000 U	2000	490	5	02/27/18 11:24	2/22/18	
Bis(2-chloroethoxy)methane	2000 U	2000	460	5	02/27/18 11:24	2/22/18	
Bis(2-chloroethyl) Ether	2000 U	2000	370	5	02/27/18 11:24	2/22/18	
Bis(2-ethylhexyl) Phthalate	3000 U	3000	2800	5	02/27/18 11:24	2/22/18	
Butyl Benzyl Phthalate	2000 U	2000	390	5	02/27/18 11:24	2/22/18	
Caprolactam	2000 U	2000	450	5	02/27/18 11:24	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	2000 J	2000	500	5	02/27/18 11:24	2/22/18	
Chrysene	7600	2000	400	5	02/27/18 11:24	2/22/18	
Di-n-butyl Phthalate	2000 U	2000	670	5	02/27/18 11:24	2/22/18	
Di-n-octyl Phthalate	2000 U	2000	610	5	02/27/18 11:24	2/22/18	
Dibenz(a,h)anthracene	1500 J	2000	370	5	02/27/18 11:24	2/22/18	
Dibenzofuran	1900 J	2000	410	5	02/27/18 11:24	2/22/18	
Diethyl Phthalate	2000 U	2000	1100	5	02/27/18 11:24	2/22/18	
Dimethyl Phthalate	2000 U	2000	550	5	02/27/18 11:24	2/22/18	
Fluoranthene	14000	2000	480	5	02/27/18 11:24	2/22/18	
Fluorene	4500	2000	510	5	02/27/18 11:24	2/22/18	
Hexachlorobenzene	2000 U	2000	470	5	02/27/18 11:24	2/22/18	
Hexachlorobutadiene	2000 U	2000	340	5	02/27/18 11:24	2/22/18	
Hexachlorocyclopentadiene	2000 U	2000	340	5	02/27/18 11:24	2/22/18	
Hexachloroethane	2000 U	2000	350	5	02/27/18 11:24	2/22/18	
Indeno(1,2,3-cd)pyrene	6100	2000	450	5	02/27/18 11:24	2/22/18	
Isophorone	2000 U	2000	440	5	02/27/18 11:24	2/22/18	
N-Nitrosodi-n-propylamine	2000 U	2000	370	5	02/27/18 11:24	2/22/18	
N-Nitrosodiphenylamine	2000 U	2000	900	5	02/27/18 11:24	2/22/18	
Naphthalene	2700	2000	420	5	02/27/18 11:24	2/22/18	
Nitrobenzene	2000 U	2000	420	5	02/27/18 11:24	2/22/18	
Pentachlorophenol (PCP)	10000 U	10000	670	5	02/27/18 11:24	2/22/18	
Phenanthrene	20000	2000	420	5	02/27/18 11:24	2/22/18	
Phenol	2000 U	2000	440	5	02/27/18 11:24	2/22/18	
Pyrene	12000	2000	390	5	02/27/18 11:24	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	13 - 128	02/27/18 11:24	
2-Fluorobiphenyl	54	10 - 102	02/27/18 11:24	
2-Fluorophenol	31	16 - 129	02/27/18 11:24	
Nitrobenzene-d5	39	10 - 95	02/27/18 11:24	
Phenol-d6	39	10 - 145	02/27/18 11:24	
Terphenyl-d14	84	16 - 126	02/27/18 11:24	



## Semivolatile Organic Compounds by GC

**ALS Environmental—Rochester Laboratory**  
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**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Units:** ug/Kg  
**Basis:** Dry

**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10 U	10	6.6	5	02/23/18 19:35	2/21/18	
4,4'-DDE	<b>5.0 J</b>	10	5.0	5	02/23/18 19:35	2/21/18	
4,4'-DDT	<b>49</b>	10	5.0	5	02/23/18 19:35	2/21/18	
Aldrin	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
Dieldrin	<b>16</b>	10	5.0	5	02/23/18 19:35	2/21/18	
Endosulfan I	10 U	10	5.3	5	02/23/18 19:35	2/21/18	
Endosulfan II	10 U	10	5.5	5	02/23/18 19:35	2/21/18	
Endosulfan Sulfate	10 U	10	5.8	5	02/23/18 19:35	2/21/18	
Endrin	10 U	10	6.1	5	02/23/18 19:35	2/21/18	
Endrin Aldehyde	10 U	10	5.1	5	02/23/18 19:35	2/21/18	
Endrin Ketone	<b>41</b>	10	8.0	5	02/23/18 19:35	2/21/18	
Heptachlor	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
Heptachlor Epoxide	10 U	10	5.5	5	02/23/18 19:35	2/21/18	
Methoxychlor	<b>18</b>	10	6.2	5	02/23/18 19:35	2/21/18	
Toxaphene	100 U	100	50	5	02/23/18 19:35	2/21/18	
alpha-BHC	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
alpha-Chlordane	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
beta-BHC	10 U	10	5.4	5	02/23/18 19:35	2/21/18	
delta-BHC	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
gamma-BHC (Lindane)	10 U	10	5.6	5	02/23/18 19:35	2/21/18	
gamma-Chlordane	10 U	10	5.0	5	02/23/18 19:35	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 122	02/23/18 19:35	
Tetrachloro-m-xylene	66	10 - 123	02/23/18 19:35	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10 U	10	6.9	5	02/23/18 20:29	2/21/18	
4,4'-DDE	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
4,4'-DDT	<b>5.5 J</b>	10	5.2	5	02/23/18 20:29	2/21/18	
Aldrin	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
Dieldrin	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
Endosulfan I	10 U	10	5.6	5	02/23/18 20:29	2/21/18	
Endosulfan II	10 U	10	5.7	5	02/23/18 20:29	2/21/18	
Endosulfan Sulfate	10 U	10	6.0	5	02/23/18 20:29	2/21/18	
Endrin	10 U	10	6.4	5	02/23/18 20:29	2/21/18	
Endrin Aldehyde	10 U	10	5.4	5	02/23/18 20:29	2/21/18	
Endrin Ketone	10 U	10	8.4	5	02/23/18 20:29	2/21/18	
Heptachlor	10 U	10	5.3	5	02/23/18 20:29	2/21/18	
Heptachlor Epoxide	10 U	10	5.8	5	02/23/18 20:29	2/21/18	
Methoxychlor	10 U	10	6.5	5	02/23/18 20:29	2/21/18	
Toxaphene	100 U	100	52	5	02/23/18 20:29	2/21/18	
alpha-BHC	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
alpha-Chlordane	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
beta-BHC	10 U	10	5.7	5	02/23/18 20:29	2/21/18	
delta-BHC	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
gamma-BHC (Lindane)	10 U	10	5.9	5	02/23/18 20:29	2/21/18	
gamma-Chlordane	10 U	10	5.2	5	02/23/18 20:29	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 122	02/23/18 20:29	
Tetrachloro-m-xylene	76	10 - 123	02/23/18 20:29	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	40 U	40	21	1	02/26/18 17:14	2/21/18	
Aroclor 1221	82 U	82	41	1	02/26/18 17:14	2/21/18	
Aroclor 1232	40 U	40	24	1	02/26/18 17:14	2/21/18	
Aroclor 1242	40 U	40	21	1	02/26/18 17:14	2/21/18	
Aroclor 1248	40 U	40	32	1	02/26/18 17:14	2/21/18	
Aroclor 1254	40 U	40	23	1	02/26/18 17:14	2/21/18	
Aroclor 1260	40 U	40	21	1	02/26/18 17:14	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	22 - 128	02/26/18 17:14	
Tetrachloro-m-xylene	73	14 - 119	02/26/18 17:14	



# Metals

**ALS Environmental—Rochester Laboratory**  
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METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/15/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-02 (4.0)      Lab Code: R1801453-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.3	0.372	1.0	8.6		
Barium	6010C	2.6	0.093	1.0	51.7		
Cadmium	6010C	0.641	0.022	1.0	0.770		
Mercury	7471B	0.418	0.118	10.0	11.8		
Chromium	6010C	1.3	0.117	1.0	9.8		
Lead	6010C	6.4	0.249	1.0	209		
Selenium	6010C	1.3	0.484	1.0	1.6		
Silver	6010C	1.3	0.085	1.0	0.449	J	

% Solids: 77.2

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-02 (10.0)      **Lab Code:** R1801453-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.337	1.0	3.5		
Barium	6010C	2.3	0.085	1.0	44.4		
Cadmium	6010C	0.581	0.020	1.0	0.755		
Mercury	7471B	0.038	0.011	1.0	0.050		
Chromium	6010C	1.2	0.106	1.0	10.7		
Lead	6010C	5.8	0.225	1.0	9.7		
Selenium	6010C	1.2	0.438	1.0	0.708	J	
Silver	6010C	1.2	0.077	1.0	1.2	U	

% Solids: 82.0

Comments:









**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-07 (4.0)      **Lab Code:** R1801453-008

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.343	1.0	5.5		
Barium	6010C	2.4	0.086	1.0	103		
Cadmium	6010C	0.591	0.020	1.0	0.402	J	
Mercury	7471B	0.040	0.011	1.0	0.038	J	
Chromium	6010C	1.2	0.108	1.0	19.8		
Lead	6010C	5.9	0.229	1.0	23.5		
Selenium	6010C	1.2	0.446	1.0	0.473	J	
Silver	6010C	1.2	0.078	1.0	1.2	U	

% Solids: 82.9

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-08 (5.5)      **Lab Code:** R1801453-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.321	1.0	3.9		
Barium	6010C	2.2	0.081	1.0	53.6		
Cadmium	6010C	0.553	0.019	1.0	0.376	J	
Mercury	7471B	0.036	0.010	1.0	0.111		
Chromium	6010C	1.1	0.101	1.0	9.4		
Lead	6010C	5.5	0.214	1.0	196		
Selenium	6010C	1.1	0.417	1.0	0.475	J	
Silver	6010C	1.1	0.073	1.0	0.099	J	

% Solids: 88.7

Comments:



METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/15/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-10 (5.0)      Lab Code: R1801453-011

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.338	1.0	10.7		
Barium	6010C	2.3	0.085	1.0	274		
Cadmium	6010C	0.583	0.020	1.0	0.723		
Mercury	7471B	0.039	0.011	1.0	0.447		
Chromium	6010C	1.2	0.106	1.0	9.8		
Lead	6010C	5.8	0.226	1.0	554		
Selenium	6010C	1.2	0.439	1.0	1.2	U	
Silver	6010C	1.2	0.077	1.0	0.221	J	

% Solids: 83.3

Comments:





METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/16/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-13 (7.0)      Lab Code: R1801453-014

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.320	1.0	2.5		
Barium	6010C	2.2	0.080	1.0	28.3		
Cadmium	6010C	0.552	0.019	1.0	0.243	J	
Mercury	7471B	0.038	0.011	1.0	0.038	U	
Chromium	6010C	1.1	0.101	1.0	6.7		
Lead	6010C	5.5	0.214	1.0	4.7	J	
Selenium	6010C	1.1	0.416	1.0	1.1	U	
Silver	6010C	1.1	0.073	1.0	1.1	U	

% Solids: 87.1

Comments:



METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/16/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-14 (3.5)      Lab Code: R1801453-015

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.3	0.379	1.0	7.5		
Barium	6010C	2.6	0.095	1.0	136		
Cadmium	6010C	0.653	0.022	1.0	0.927		
Mercury	7471B	0.218	0.062	5.0	2.5		
Chromium	6010C	1.3	0.119	1.0	21.1		
Lead	6010C	6.5	0.253	1.0	651		
Selenium	6010C	1.3	0.492	1.0	1.3	J	
Silver	6010C	1.3	0.086	1.0	0.418	J	

% Solids: 76.6

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/16/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-17 (4.0)      Lab Code: R1801453-016

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.328	1.0	6.2		
Barium	6010C	2.3	0.082	1.0	58.2		
Cadmium	6010C	0.565	0.019	1.0	0.429	J	
Mercury	7471B	0.035	0.010	1.0	0.129		
Chromium	6010C	1.1	0.103	1.0	9.8		
Lead	6010C	5.7	0.219	1.0	85.8		
Selenium	6010C	1.1	0.426	1.0	1.1	U	
Silver	6010C	1.1	0.075	1.0	0.237	J	

% Solids: 86.8

Comments:



METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/16/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-20 (9.0)      Lab Code: R1801453-018

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.3	0.384	1.0	9.1		
Barium	6010C	2.7	0.096	1.0	68.5		
Cadmium	6010C	0.661	0.022	1.0	1.0		
Mercury	7471B	0.043	0.012	1.0	1.5		
Chromium	6010C	1.3	0.121	1.0	12.2		
Lead	6010C	6.6	0.257	1.0	563		
Selenium	6010C	1.3	0.499	1.0	0.979	J	
Silver	6010C	1.3	0.087	1.0	0.159	J	

% Solids: 72.0

Comments:





## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001

**Service Request:** R1801453  
**Date Collected:** 02/15/18 09:09  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	85.2	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:15  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	77.2	Percent	-	-	1	02/22/18 11:55	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:28  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 02/19/18 15:59  
**Basis:** Dry

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cyanide, Total	9012B	<b>0.13 J</b>	mg/Kg	0.29	0.02	1	02/27/18 15:16	02/26/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	84.5	Percent	-	-	1	02/22/18 11:55	NA	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:48  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	94.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:12  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	84.4	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:24  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	79.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.9	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	88.7	Percent	-	-	1	02/22/18 11:55	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:00  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	85.8	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	83.3	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59  
**Basis:** Dry

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cyanide, Total	9012B	<b>0.21 J</b>	mg/Kg	0.29	0.02	1	02/27/18 15:12	02/26/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	81.1	Percent	-	-	1	02/22/18 11:55	NA	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:35  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	68.8	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:40  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	87.1	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015

**Service Request:** R1801453  
**Date Collected:** 02/16/18 09:20  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	76.6	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016

**Service Request:** R1801453  
**Date Collected:** 02/16/18 11:00  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	86.8	Percent	-	-	1	02/22/18 11:55	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017

**Service Request:** R1801453  
**Date Collected:** 02/16/18 12:28  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	85.8	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018

**Service Request:** R1801453  
**Date Collected:** 02/16/18 13:05  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	72.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	81.1	Percent	-	-	1	02/22/18 11:55	



# QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Extraction Method:** EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		51 - 136	63 - 138	66 - 138
TP-07 (4.0)	R1801453-008	82	98	99
TP-08 (5.5)	R1801453-009	90	99	101
TP-10 (5.0)	R1801453-011	68	97	97
TP-12 (5.0)	R1801453-012	75	96	98
TP-22 (4.0-5.0)	R1801453-019	75	99	97
TP-22 (4.0-5.0) DL	R1801453-019	102	92	101
Lab Control Sample	RQ1801626-03	99	101	102
Method Blank	RQ1801626-04	99	99	103
Lab Control Sample	RQ1801666-03	97	98	100
Method Blank	RQ1801666-04	98	92	101

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18 14:48  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1801626-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\022218\C5048.D\  
**Analysis Lot:** 581283

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1801626-03	I:\ACQUADATA\MSVOA14\Data\022218\C5045.D\ \C5045.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 13:22
TP-07 (4.0)	R1801453-008	I:\ACQUADATA\MSVOA14\Data\022218\C5067.D\ \C5067.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 22:02
TP-08 (5.5)	R1801453-009	I:\ACQUADATA\MSVOA14\Data\022218\C5068.D\ \C5068.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 22:26
TP-10 (5.0)	R1801453-011	I:\ACQUADATA\MSVOA14\Data\022218\C5069.D\ \C5069.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 22:49
TP-12 (5.0)	R1801453-012	I:\ACQUADATA\MSVOA14\Data\022218\C5070.D\ \C5070.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 23:11
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\MSVOA14\Data\022218\C5071.D\ \C5071.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 23:34

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dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 12:12  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1801666-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-12  
**File ID:** I:\ACQUADATA\msvoa12\Data\022318\P15951.D\  
**Analysis Lot:** 581456

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1801666-03	I:\ACQUADATA\msvoa12\Data\022318\P15949.D\	02/23/18 11:23
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\msvoa12\Data\022318\P15957.D\	02/23/18 14:32



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801626-04

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.73	1	02/22/18 14:48	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.81	1	02/22/18 14:48	
1,1,2-Trichloroethane	5.0 U	5.0	0.73	1	02/22/18 14:48	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	5.0	1.3	1	02/22/18 14:48	
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	1.3	1	02/22/18 14:48	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	1.3	1	02/22/18 14:48	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.62	1	02/22/18 14:48	
1,2,4-Trichlorobenzene	5.0 U	5.0	0.59	1	02/22/18 14:48	
1,2,4-Trimethylbenzene	5.0 U	5.0	0.54	1	02/22/18 14:48	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.9	1	02/22/18 14:48	
1,2-Dibromoethane	5.0 U	5.0	1.3	1	02/22/18 14:48	
1,2-Dichlorobenzene	5.0 U	5.0	0.61	1	02/22/18 14:48	
1,2-Dichloroethane	5.0 U	5.0	0.61	1	02/22/18 14:48	
1,2-Dichloropropane	5.0 U	5.0	0.97	1	02/22/18 14:48	
1,3,5-Trimethylbenzene	5.0 U	5.0	0.79	1	02/22/18 14:48	
1,3-Dichlorobenzene	5.0 U	5.0	0.63	1	02/22/18 14:48	
1,4-Dichlorobenzene	5.0 U	5.0	0.56	1	02/22/18 14:48	
1,4-Dioxane	100 U	100	20	1	02/22/18 14:48	
2-Butanone (MEK)	5.0 U	5.0	2.3	1	02/22/18 14:48	
2-Hexanone	5.0 U	5.0	1.3	1	02/22/18 14:48	
4-Isopropyltoluene	5.0 U	5.0	0.87	1	02/22/18 14:48	
4-Methyl-2-pentanone	5.0 U	5.0	0.98	1	02/22/18 14:48	
Acetone	6.4	5.0	2.9	1	02/22/18 14:48	
Benzene	5.0 U	5.0	0.29	1	02/22/18 14:48	
Bromochloromethane	5.0 U	5.0	1.4	1	02/22/18 14:48	
Bromodichloromethane	5.0 U	5.0	0.61	1	02/22/18 14:48	
Bromoform	5.0 U	5.0	0.93	1	02/22/18 14:48	
Bromomethane	5.0 U	5.0	1.4	1	02/22/18 14:48	
Carbon Disulfide	5.0 U	5.0	1.3	1	02/22/18 14:48	
Carbon Tetrachloride	5.0 U	5.0	0.92	1	02/22/18 14:48	
Chlorobenzene	5.0 U	5.0	0.29	1	02/22/18 14:48	
Chloroethane	5.0 U	5.0	2.9	1	02/22/18 14:48	
Chloroform	5.0 U	5.0	1.3	1	02/22/18 14:48	
Chloromethane	5.0 U	5.0	0.40	1	02/22/18 14:48	
Cyclohexane	5.0 U	5.0	1.4	1	02/22/18 14:48	
Dibromochloromethane	5.0 U	5.0	0.73	1	02/22/18 14:48	
Dichlorodifluoromethane (CFC 12)	5.0 U	5.0	1.9	1	02/22/18 14:48	
Dichloromethane	5.0 U	5.0	0.57	1	02/22/18 14:48	
Ethylbenzene	5.0 U	5.0	0.23	1	02/22/18 14:48	
Isopropylbenzene (Cumene)	5.0 U	5.0	0.67	1	02/22/18 14:48	
Methyl Acetate	5.0 U	5.0	1.8	1	02/22/18 14:48	
Methyl tert-Butyl Ether	5.0 U	5.0	0.94	1	02/22/18 14:48	
Methylcyclohexane	5.0 U	5.0	1.2	1	02/22/18 14:48	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801626-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.0 U	5.0	0.30	1	02/22/18 14:48	
Tetrachloroethene (PCE)	5.0 U	5.0	0.88	1	02/22/18 14:48	
Toluene	5.0 U	5.0	1.0	1	02/22/18 14:48	
Trichloroethene (TCE)	5.0 U	5.0	1.1	1	02/22/18 14:48	
Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.66	1	02/22/18 14:48	
Vinyl Chloride	5.0 U	5.0	1.9	1	02/22/18 14:48	
cis-1,2-Dichloroethene	5.0 U	5.0	0.95	1	02/22/18 14:48	
cis-1,3-Dichloropropene	5.0 U	5.0	0.90	1	02/22/18 14:48	
m,p-Xylenes	10 U	10	1.1	1	02/22/18 14:48	
n-Butylbenzene	5.0 U	5.0	0.98	1	02/22/18 14:48	
n-Propylbenzene	5.0 U	5.0	0.78	1	02/22/18 14:48	
o-Xylene	5.0 U	5.0	0.48	1	02/22/18 14:48	
sec-Butylbenzene	5.0 U	5.0	0.72	1	02/22/18 14:48	
tert-Butylbenzene	5.0 U	5.0	0.58	1	02/22/18 14:48	
trans-1,2-Dichloroethene	5.0 U	5.0	0.86	1	02/22/18 14:48	
trans-1,3-Dichloropropene	5.0 U	5.0	0.20	1	02/22/18 14:48	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	51 - 136	02/22/18 14:48	
Dibromofluoromethane	99	63 - 138	02/22/18 14:48	
Toluene-d8	103	66 - 138	02/22/18 14:48	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801666-04

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	37	50	02/23/18 12:12	
1,1,2,2-Tetrachloroethane	250 U	250	41	50	02/23/18 12:12	
1,1,2-Trichloroethane	250 U	250	37	50	02/23/18 12:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	62	50	02/23/18 12:12	
1,1-Dichloroethane (1,1-DCA)	250 U	250	63	50	02/23/18 12:12	
1,1-Dichloroethene (1,1-DCE)	250 U	250	64	50	02/23/18 12:12	
1,2,3-Trichlorobenzene	250 U	250	31	50	02/23/18 12:12	
1,2,4-Trichlorobenzene	250 U	250	30	50	02/23/18 12:12	
1,2,4-Trimethylbenzene	250 U	250	27	50	02/23/18 12:12	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	94	50	02/23/18 12:12	
1,2-Dibromoethane	250 U	250	61	50	02/23/18 12:12	
1,2-Dichlorobenzene	250 U	250	31	50	02/23/18 12:12	
1,2-Dichloroethane	250 U	250	31	50	02/23/18 12:12	
1,2-Dichloropropane	250 U	250	49	50	02/23/18 12:12	
1,3,5-Trimethylbenzene	250 U	250	40	50	02/23/18 12:12	
1,3-Dichlorobenzene	250 U	250	32	50	02/23/18 12:12	
1,4-Dichlorobenzene	250 U	250	28	50	02/23/18 12:12	
1,4-Dioxane	5000 U	5000	960	50	02/23/18 12:12	
2-Butanone (MEK)	250 U	250	120	50	02/23/18 12:12	
2-Hexanone	250 U	250	61	50	02/23/18 12:12	
4-Isopropyltoluene	250 U	250	44	50	02/23/18 12:12	
4-Methyl-2-pentanone	250 U	250	49	50	02/23/18 12:12	
Acetone	250 U	250	150	50	02/23/18 12:12	
Benzene	250 U	250	15	50	02/23/18 12:12	
Bromochloromethane	250 U	250	68	50	02/23/18 12:12	
Bromodichloromethane	250 U	250	31	50	02/23/18 12:12	
Bromoform	250 U	250	47	50	02/23/18 12:12	
Bromomethane	250 U	250	69	50	02/23/18 12:12	
Carbon Disulfide	250 U	250	62	50	02/23/18 12:12	
Carbon Tetrachloride	250 U	250	46	50	02/23/18 12:12	
Chlorobenzene	250 U	250	15	50	02/23/18 12:12	
Chloroethane	250 U	250	150	50	02/23/18 12:12	
Chloroform	250 U	250	63	50	02/23/18 12:12	
Chloromethane	250 U	250	20	50	02/23/18 12:12	
Cyclohexane	250 U	250	69	50	02/23/18 12:12	
Dibromochloromethane	250 U	250	37	50	02/23/18 12:12	
Dichlorodifluoromethane (CFC 12)	250 U	250	95	50	02/23/18 12:12	
Dichloromethane	35 J	250	29	50	02/23/18 12:12	
Ethylbenzene	250 U	250	12	50	02/23/18 12:12	
Isopropylbenzene (Cumene)	250 U	250	34	50	02/23/18 12:12	
Methyl Acetate	250 U	250	88	50	02/23/18 12:12	
Methyl tert-Butyl Ether	250 U	250	47	50	02/23/18 12:12	
Methylcyclohexane	250 U	250	60	50	02/23/18 12:12	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801666-04

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	250 U	250	15	50	02/23/18 12:12	
Tetrachloroethene (PCE)	250 U	250	44	50	02/23/18 12:12	
Toluene	250 U	250	50	50	02/23/18 12:12	
Trichloroethene (TCE)	250 U	250	51	50	02/23/18 12:12	
Trichlorofluoromethane (CFC 11)	250 U	250	33	50	02/23/18 12:12	
Vinyl Chloride	250 U	250	92	50	02/23/18 12:12	
cis-1,2-Dichloroethene	250 U	250	48	50	02/23/18 12:12	
cis-1,3-Dichloropropene	250 U	250	45	50	02/23/18 12:12	
m,p-Xylenes	500 U	500	55	50	02/23/18 12:12	
n-Butylbenzene	250 U	250	49	50	02/23/18 12:12	
n-Propylbenzene	250 U	250	39	50	02/23/18 12:12	
o-Xylene	250 U	250	24	50	02/23/18 12:12	
sec-Butylbenzene	250 U	250	36	50	02/23/18 12:12	
tert-Butylbenzene	250 U	250	29	50	02/23/18 12:12	
trans-1,2-Dichloroethene	250 U	250	43	50	02/23/18 12:12	
trans-1,3-Dichloropropene	250 U	250	10	50	02/23/18 12:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	02/23/18 12:12	
Dibromofluoromethane	92	63 - 138	02/23/18 12:12	
Toluene-d8	101	66 - 138	02/23/18 12:12	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18 13:22  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801626-03  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\022218\C5045.D\  
**Analysis Lot:** 581283

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1801626-04	I:\ACQUADATA\MSVOA14\Data\022218\C5048.D\ \C5048.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 14:48
TP-07 (4.0)	R1801453-008	I:\ACQUADATA\MSVOA14\Data\022218\C5067.D\ \C5067.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 22:02
TP-08 (5.5)	R1801453-009	I:\ACQUADATA\MSVOA14\Data\022218\C5068.D\ \C5068.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 22:26
TP-10 (5.0)	R1801453-011	I:\ACQUADATA\MSVOA14\Data\022218\C5069.D\ \C5069.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 22:49
TP-12 (5.0)	R1801453-012	I:\ACQUADATA\MSVOA14\Data\022218\C5070.D\ \C5070.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 23:11
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\MSVOA14\Data\022218\C5071.D\ \C5071.D\ I:\ACQUADATA\MSVOA14\Data\022218	02/22/18 23:34

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 11:23  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801666-03  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:**R-MS-12  
**File ID:**I:\ACQUADATA\msvoa12\Data\022318\P15949.D\  
**Analysis Lot:**581456

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1801666-04	I:\ACQUADATA\msvoa12\Data\022318\P15951.D\	02/23/18 12:12
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\msvoa12\Data\022318\P15957.D\	02/23/18 14:32

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801626-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.5	20.0	93	40-140
1,1,2,2-Tetrachloroethane	8260C	18.5	20.0	93	40-140
1,1,2-Trichloroethane	8260C	19.2	20.0	96	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.2	20.0	96	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	19.5	20.0	98	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	18.5	20.0	92	40-140
1,2,3-Trichlorobenzene	8260C	17.1	20.0	85	40-140
1,2,4-Trichlorobenzene	8260C	18.8	20.0	94	40-140
1,2,4-Trimethylbenzene	8260C	20.5	20.0	103	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	16.4	20.0	82	40-140
1,2-Dibromoethane	8260C	19.0	20.0	95	40-140
1,2-Dichlorobenzene	8260C	19.8	20.0	99	40-140
1,2-Dichloroethane	8260C	19.1	20.0	95	40-140
1,2-Dichloropropane	8260C	18.9	20.0	95	40-140
1,3,5-Trimethylbenzene	8260C	20.0	20.0	100	40-140
1,3-Dichlorobenzene	8260C	20.3	20.0	101	40-140
1,4-Dichlorobenzene	8260C	20.0	20.0	100	40-140
1,4-Dioxane	8260C	361	400	90	40-140
2-Butanone (MEK)	8260C	19.1	20.0	96	40-140
2-Hexanone	8260C	18.4	20.0	92	40-140
4-Isopropyltoluene	8260C	20.5	20.0	102	40-140
4-Methyl-2-pentanone	8260C	18.2	20.0	91	40-140
Acetone	8260C	22.0	20.0	110	40-140
Benzene	8260C	18.9	20.0	95	40-140
Bromochloromethane	8260C	19.8	20.0	99	40-140
Bromodichloromethane	8260C	18.7	20.0	93	40-140
Bromoform	8260C	17.0	20.0	85	40-140
Bromomethane	8260C	17.7	20.0	89	40-140
Carbon Disulfide	8260C	17.9	20.0	90	40-140
Carbon Tetrachloride	8260C	17.1	20.0	86	40-140
Chlorobenzene	8260C	19.2	20.0	96	40-140
Chloroethane	8260C	19.3	20.0	96	40-140
Chloroform	8260C	19.6	20.0	98	40-140

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801626-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	15.8	20.0	79	40-140
Cyclohexane	8260C	19.6	20.0	98	40-140
Dibromochloromethane	8260C	17.9	20.0	89	40-140
Dichlorodifluoromethane (CFC 12)	8260C	16.9	20.0	85	40-140
Dichloromethane	8260C	19.3	20.0	96	40-140
Ethylbenzene	8260C	18.7	20.0	93	40-140
Isopropylbenzene (Cumene)	8260C	18.4	20.0	92	40-140
Methyl Acetate	8260C	18.9	20.0	94	40-140
Methyl tert-Butyl Ether	8260C	19.2	20.0	96	40-140
Methylcyclohexane	8260C	19.2	20.0	96	40-140
Styrene	8260C	18.5	20.0	93	40-140
Tetrachloroethene (PCE)	8260C	18.2	20.0	91	40-140
Toluene	8260C	19.1	20.0	95	40-140
Trichloroethene (TCE)	8260C	19.1	20.0	96	40-140
Trichlorofluoromethane (CFC 11)	8260C	20.2	20.0	101	40-140
Vinyl Chloride	8260C	19.2	20.0	96	40-140
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	40-140
cis-1,3-Dichloropropene	8260C	18.5	20.0	93	40-140
m,p-Xylenes	8260C	37.0	40.0	92	40-140
n-Butylbenzene	8260C	20.9	20.0	104	40-140
n-Propylbenzene	8260C	19.9	20.0	99	40-140
o-Xylene	8260C	18.7	20.0	93	40-140
sec-Butylbenzene	8260C	19.9	20.0	100	40-140
tert-Butylbenzene	8260C	19.7	20.0	99	40-140
trans-1,2-Dichloroethene	8260C	19.0	20.0	95	40-140
trans-1,3-Dichloropropene	8260C	17.8	20.0	89	40-140



ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801666-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.5	20.0	97	40-140
1,1,2,2-Tetrachloroethane	8260C	22.0	20.0	110	40-140
1,1,2-Trichloroethane	8260C	21.4	20.0	107	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.2	20.0	101	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	21.8	20.0	109	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	19.4	20.0	97	40-140
1,2,3-Trichlorobenzene	8260C	21.9	20.0	109	40-140
1,2,4-Trichlorobenzene	8260C	22.7	20.0	113	40-140
1,2,4-Trimethylbenzene	8260C	22.0	20.0	110	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.4	20.0	92	40-140
1,2-Dibromoethane	8260C	21.8	20.0	109	40-140
1,2-Dichlorobenzene	8260C	22.7	20.0	114	40-140
1,2-Dichloroethane	8260C	21.5	20.0	108	40-140
1,2-Dichloropropane	8260C	21.9	20.0	110	40-140
1,3,5-Trimethylbenzene	8260C	21.3	20.0	107	40-140
1,3-Dichlorobenzene	8260C	22.5	20.0	113	40-140
1,4-Dichlorobenzene	8260C	22.0	20.0	110	40-140
1,4-Dioxane	8260C	454	400	114	40-140
2-Butanone (MEK)	8260C	21.3	20.0	106	40-140
2-Hexanone	8260C	20.3	20.0	101	40-140
4-Isopropyltoluene	8260C	21.6	20.0	108	40-140
4-Methyl-2-pentanone	8260C	21.3	20.0	107	40-140
Acetone	8260C	21.5	20.0	107	40-140
Benzene	8260C	22.0	20.0	110	40-140
Bromochloromethane	8260C	21.3	20.0	107	40-140
Bromodichloromethane	8260C	19.6	20.0	98	40-140
Bromoform	8260C	18.2	20.0	91	40-140
Bromomethane	8260C	17.3	20.0	86	40-140
Carbon Disulfide	8260C	19.5	20.0	98	40-140
Carbon Tetrachloride	8260C	19.4	20.0	97	40-140
Chlorobenzene	8260C	22.4	20.0	112	40-140
Chloroethane	8260C	20.1	20.0	101	40-140
Chloroform	8260C	19.9	20.0	100	40-140

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1801666-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	22.8	20.0	114	40-140
Cyclohexane	8260C	20.5	20.0	103	40-140
Dibromochloromethane	8260C	19.4	20.0	97	40-140
Dichlorodifluoromethane (CFC 12)	8260C	19.3	20.0	96	40-140
Dichloromethane	8260C	21.6	20.0	108	40-140
Ethylbenzene	8260C	20.9	20.0	105	40-140
Isopropylbenzene (Cumene)	8260C	21.0	20.0	105	40-140
Methyl Acetate	8260C	21.8	20.0	109	40-140
Methyl tert-Butyl Ether	8260C	21.2	20.0	106	40-140
Methylcyclohexane	8260C	23.0	20.0	115	40-140
Styrene	8260C	21.5	20.0	108	40-140
Tetrachloroethene (PCE)	8260C	20.8	20.0	104	40-140
Toluene	8260C	21.7	20.0	109	40-140
Trichloroethene (TCE)	8260C	21.7	20.0	109	40-140
Trichlorofluoromethane (CFC 11)	8260C	22.4	20.0	112	40-140
Vinyl Chloride	8260C	22.0	20.0	110	40-140
cis-1,2-Dichloroethene	8260C	21.7	20.0	109	40-140
cis-1,3-Dichloropropene	8260C	21.7	20.0	109	40-140
m,p-Xylenes	8260C	42.9	40.0	107	40-140
n-Butylbenzene	8260C	21.9	20.0	110	40-140
n-Propylbenzene	8260C	22.0	20.0	110	40-140
o-Xylene	8260C	21.4	20.0	107	40-140
sec-Butylbenzene	8260C	21.4	20.0	107	40-140
tert-Butylbenzene	8260C	21.1	20.0	105	40-140
trans-1,2-Dichloroethene	8260C	21.0	20.0	105	40-140
trans-1,3-Dichloropropene	8260C	21.0	20.0	105	40-140

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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/22/18 11:46

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\022218\C5042.D\  
**Instrument ID:** R-MS-14

**Analytical Method:** 8260C  
**Analysis Lot:** 581283

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.20	20625	Pass
75	95	30	60	49.93	53642	Pass
95	95	100	100	100.00	107445	Pass
96	95	5	9	6.85	7355	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	88.59	95184	Pass
175	174	5	9	7.85	7473	Pass
176	174	95	101	97.48	92781	Pass
177	176	5	9	6.34	5886	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801626-02	I:\ACQUADATA\MSVOA14\Data\022218\C5044.D\	02/22/18 12:52	
Lab Control Sample	RQ1801626-03	I:\ACQUADATA\MSVOA14\Data\022218\C5045.D\	02/22/18 13:22	
Method Blank	RQ1801626-04	I:\ACQUADATA\MSVOA14\Data\022218\C5048.D\	02/22/18 14:48	
TP-07 (4.0)	R1801453-008	I:\ACQUADATA\MSVOA14\Data\022218\C5067.D\	02/22/18 22:02	
TP-08 (5.5)	R1801453-009	I:\ACQUADATA\MSVOA14\Data\022218\C5068.D\	02/22/18 22:26	
TP-10 (5.0)	R1801453-011	I:\ACQUADATA\MSVOA14\Data\022218\C5069.D\	02/22/18 22:49	
TP-12 (5.0)	R1801453-012	I:\ACQUADATA\MSVOA14\Data\022218\C5070.D\	02/22/18 23:11	
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\MSVOA14\Data\022218\C5071.D\	02/22/18 23:34	

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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/23/18 09:55

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\msvoa12\Data\022318\P15946.D\  
**Instrument ID:** R-MS-12

**Analytical Method:** 8260C  
**Analysis Lot:** 581456

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	19.17	34472	Pass
75	95	30	60	48.81	87744	Pass
95	95	100	100	100.00	179781	Pass
96	95	5	9	6.59	11844	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	78.27	140722	Pass
175	174	5	9	7.66	10785	Pass
176	174	95	101	98.88	139144	Pass
177	176	5	9	6.63	9229	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801666-02	I:\ACQUADATA\msvoa12\Data\022318\P15947.D\	02/23/18 10:25	
Lab Control Sample	RQ1801666-03	I:\ACQUADATA\msvoa12\Data\022318\P15949.D\	02/23/18 11:23	
Method Blank	RQ1801666-04	I:\ACQUADATA\msvoa12\Data\022318\P15951.D\	02/23/18 12:12	
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\msvoa12\Data\022318\P15957.D\	02/23/18 14:32	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/22/18 12:52

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\022218\C5044.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1801626-02  
**Analysis Lot:**581283  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	155,783	11.74	344,077	5.94	304,301	9.58
<b>Upper Limit ==&gt;</b>	311,566	12.24	688,154	6.44	608,602	10.08
<b>Lower Limit ==&gt;</b>	77,892	11.24	172,039	5.44	152,151	9.08

**Associated Analyses**

Lab Control Sample	RQ1801626-03	160467	11.74	355069	5.94	313877	9.58
Method Blank	RQ1801626-04	155391	11.74	339094	5.94	301650	9.58
TP-07 (4.0)	R1801453-008	107590	11.74	321088	5.94	264556	9.58
TP-08 (5.5)	R1801453-009	126119	11.74	328273	5.94	278723	9.58
TP-10 (5.0)	R1801453-011	80095	11.74	317999	5.94	237171	9.58
TP-12 (5.0)	R1801453-012	94937	11.74	322772	5.94	253066	9.58
TP-22 (4.0-5.0)	R1801453-019.R01	91966	11.75	298939	5.94	226400	9.58

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/22/18 12:52

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\MSVOA14\Data\022218\C5044.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1801626-02  
**Analysis Lot:**581283  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	228,532	4.69
<b>Upper Limit ==&gt;</b>	457,064	5.19
<b>Lower Limit ==&gt;</b>	114,266	4.19

**Associated Analyses**

Lab Control Sample	RQ1801626-03	235493	4.69
Method Blank	RQ1801626-04	227543	4.68
TP-07 (4.0)	R1801453-008	214075	4.69
TP-08 (5.5)	R1801453-009	216701	4.69
TP-10 (5.0)	R1801453-011	209664	4.69
TP-12 (5.0)	R1801453-012	212314	4.68
TP-22 (4.0-5.0)	R1801453-019.R01	188954	4.69

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/23/18 10:25

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\msvoa12\Data\022318\P15947.D\  
**Instrument ID:** R-MS-12  
**Analysis Method:** 8260C

**Lab Code:**RQ1801666-02  
**Analysis Lot:**581456  
**Signal ID:**

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>		273,988	11.84	575,126	6.47	520,545	9.78
<b>Upper Limit ==&gt;</b>		547,976	12.34	1,150,252	6.97	1,041,090	10.28
<b>Lower Limit ==&gt;</b>		136,994	11.34	287,563	5.97	260,273	9.28
<b>Associated Analyses</b>							
Lab Control Sample	RQ1801666-03	247153	11.84	547571	6.47	486304	9.78
Method Blank	RQ1801666-04	237773	11.84	505695	6.47	453325	9.78
TP-22 (4.0-5.0)	R1801453-019	250398	11.84	470367	6.47	420367	9.78

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/23/18 10:25

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\msvoa12\Data\022318\P15947.D\  
**Instrument ID:** R-MS-12  
**Analysis Method:** 8260C

**Lab Code:**RQ1801666-02  
**Analysis Lot:**581456  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	348,338	5.38
<b>Upper Limit ==&gt;</b>	696,676	5.88
<b>Lower Limit ==&gt;</b>	174,169	4.88

**Associated Analyses**

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Lab Control Sample	RQ1801666-03	330812	5.38
Method Blank	RQ1801666-04	304764	5.37
TP-22 (4.0-5.0)	R1801453-019	286530	5.38





## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		13 - 128	10 - 102	16 - 129
TP-01 (3.0-4.0)	R1801453-001	77	52	43
TP-02 (4.0)	R1801453-002	80	45	49
TP-02 (10.0)	R1801453-003	61	30	29
TP-05 (6.0)	R1801453-005	93	51	42
TP-06 (5.5)	R1801453-006	76	35	35
TP-06 (9.0)	R1801453-007	82	52	53
TP-07 (4.0)	R1801453-008	102	85	76
TP-08 (5.5)	R1801453-009	87	46	40
TP-09 (7.0)	R1801453-010	91	45	33
TP-10 (5.0)	R1801453-011	91	60	46
TP-12 (5.0)	R1801453-012	92	45	39
TP-13 (1.0-2.0)	R1801453-013	55	52	35
TP-13 (7.0)	R1801453-014	89	25	17
TP-14 (3.5)	R1801453-015	98	43	35
TP-17 (4.0)	R1801453-016	93	38	36
TP-19 (3.0-4.0)	R1801453-017	86	57	48
TP-20 (9.0)	R1801453-018	85	45	43
TP-22 (4.0-5.0)	R1801453-019	80	54	31
Method Blank	RQ1801602-01	92	74	63
Lab Control Sample	RQ1801602-02	72	56	48
Duplicate Lab Control Sample	RQ1801602-03	76	63	56
TP-20 (9.0) MS	RQ1801602-04	79	53	42
TP-20 (9.0) DMS	RQ1801602-05	49	34	34

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		10 - 95	10 - 145	16 - 126
TP-01 (3.0-4.0)	R1801453-001	40	49	76
TP-02 (4.0)	R1801453-002	52	51	91
TP-02 (10.0)	R1801453-003	32	30	95
TP-05 (6.0)	R1801453-005	49	47	101
TP-06 (5.5)	R1801453-006	37	35	85
TP-06 (9.0)	R1801453-007	57	56	85
TP-07 (4.0)	R1801453-008	84	79	100
TP-08 (5.5)	R1801453-009	43	44	90
TP-09 (7.0)	R1801453-010	35	41	91
TP-10 (5.0)	R1801453-011	49	55	91
TP-12 (5.0)	R1801453-012	41	44	92
TP-13 (1.0-2.0)	R1801453-013	47	41	67
TP-13 (7.0)	R1801453-014	19	21	98
TP-14 (3.5)	R1801453-015	34	42	99
TP-17 (4.0)	R1801453-016	39	38	96
TP-19 (3.0-4.0)	R1801453-017	46	55	80
TP-20 (9.0)	R1801453-018	45	44	90
TP-22 (4.0-5.0)	R1801453-019	39	39	84
Method Blank	RQ1801602-01	73	68	96
Lab Control Sample	RQ1801602-02	55	51	85
Duplicate Lab Control Sample	RQ1801602-03	63	58	92
TP-20 (9.0) MS	RQ1801602-04	46	47	87
TP-20 (9.0) DMS	RQ1801602-05	35	46	57

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 02/23/18  
**Date Extracted:** 02/22/18

**Duplicate Matrix Spike Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Matrix Spike RQ1801602-04				Duplicate Matrix Spike RQ1801602-05			% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,2,4,5-Tetrachlorobenzene	460 U	2240	4720	47	1390	4720	30	10-101	44*	30
2,3,4,6-Tetrachlorophenol	460 U	3430	4610	74	1520	4610	33	11-125	77*	30
2,4,5-Trichlorophenol	460 U	3510	4610	76	2380	4610	52	19-103	38*	30
2,4,6-Trichlorophenol	460 U	3250	4610	70	2010	4610	44	13-149	46*	30
2,4-Dichlorophenol	460 U	2770	4610	60	2100	4610	46	16-98	26	30
2,4-Dimethylphenol	460 U	2470	4610	54	1860	4610	40	10-98	30	30
2,4-Dinitrophenol	2400 U	609 J	4610	13	2300 U	4610	0 *	10-129	NC	30
2,4-Dinitrotoluene	460 U	3450	4610	75	2420	4610	53	13-127	34*	30
2,6-Dinitrotoluene	460 U	3400	4610	74	2540	4610	55	14-121	29	30
2-Chloronaphthalene	460 U	2490	4610	54	1600	4610	35	10-94	43*	30
2-Chlorophenol	460 U	2100	4610	45	1750	4610	38	14-99	17	30
2-Methylnaphthalene	460 U	2280	4610	50	1350	4610	29	10-90	53*	30
2-Methylphenol	460 U	2170	4610	47	2020	4610	44	14-99	7	30
2-Nitroaniline	2400 U	3840	4610	83	3110	4610	68	19-109	20	30
2-Nitrophenol	460 U	2260	4610	49	1780	4610	39	10-90	23	30
3,3'-Dichlorobenzidine	460 U	722	4610	16	161 J	4610	3 *	10-118	137*	30
3- and 4-Methylphenol Coelution	460 U	2290	4610	50	2040	4610	44	11-101	13	30
3-Nitroaniline	2400 U	3200	4610	69	2330	4610	51	16-103	30	30
4,6-Dinitro-2-methylphenol	2400 U	879 J	4610	19	2300 U	4610	0 *	10-112	NC	30
4-Bromophenyl Phenyl Ether	460 U	3210	4610	70	2160	4610	47	13-112	39*	30
4-Chloro-3-methylphenol	460 U	3360	4610	73	2440	4610	53	18-110	32*	30
4-Chloroaniline	460 U	2000	4610	43	1470	4610	32	10-91	29	30
4-Chlorophenyl Phenyl Ether	460 U	3190	4610	69	2080	4610	45	11-104	42*	30
4-Nitroaniline	2400 U	3330	4610	72	2250 J	4610	49	17-114	38*	30
4-Nitrophenol	2400 U	3110	4610	68	1200 J	4610	26	11-131	89*	30
Acenaphthene	460 U	2750	4610	60	1780	4610	39	12-99	42*	30
Acenaphthylene	760 J	2950	4610	64	1890	4610	41	10-102	44*	30
Acetophenone	460 U	3770	9220	41	3240	9210	35	12-99	16	30
Anthracene	2300	3740	4610	81	2280	4610	50	15-116	47*	30
Atrazine	460 U	3720	4610	81	2740	4610	59	18-146	31*	30
Benz(a)anthracene	4000	3840	4610	83	2290	4610	50	10-129	50*	30
Benzaldehyde	2400 U	2380 J	4610	52	1590 J	4610	34	10-200	42*	30
Benzo(a)pyrene	3500	3930	4610	85	2390	4610	52	10-127	48*	30
Benzo(b)fluoranthene	3600	4020	4610	87	2390	4610	52	14-128	50*	30
Benzo(g,h,i)perylene	1700	3200	4610	70	1970	4610	43	10-132	48*	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 02/23/18  
**Date Extracted:** 02/22/18

**Duplicate Matrix Spike Summary**  
**Semivolatle Organic Compounds by GC/MS**

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Matrix Spike RQ1801602-04				Duplicate Matrix Spike RQ1801602-05			% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(k)fluoranthene	1500	3840	4610	83	2430	4610	53	16-118	44*	30
Biphenyl	460 U	2530	4610	55	1640	4610	36	10-99	42*	30
2,2'-Oxybis(1-chloropropane)	460 U	1880	4610	41	1110	4610	24	13-63	52*	30
Bis(2-chloroethoxy)methane	460 U	2120	4610	46	1900	4610	41	16-93	11	30
Bis(2-chloroethyl) Ether	460 U	1890	4610	41	1370	4610	30	13-63	31*	30
Bis(2-ethylhexyl) Phthalate	690 U	3570	4610	77	2290	4610	50	13-140	43*	30
Butyl Benzyl Phthalate	460 U	3370	4610	73	2190	4610	48	19-125	41*	30
Caprolactam	460 U	3420	4610	74	1700	4610	37	10-115	67*	30
Carbazole	460 J	3530	4610	77	2360	4610	51	21-118	41*	30
Chrysene	3500	3830	4610	83	2310	4610	50	10-133	50*	30
Di-n-butyl Phthalate	460 U	3390	4610	73	2200	4610	48	19-128	41*	30
Di-n-octyl Phthalate	460 U	4080	4610	89	2690	4610	58	16-140	42*	30
Dibenz(a,h)anthracene	530 J	2840	4610	62	1790	4610	39	10-128	46*	30
Dibenzofuran	500 J	3000	4610	65	1930	4610	42	13-99	43*	30
Diethyl Phthalate	460 U	2780	4610	60	1830	4610	40	17-117	40*	30
Dimethyl Phthalate	460 U	2720	4610	59	2110	4610	46	18-103	25	30
Fluoranthene	8700	4560	4610	99	2600	4610	56	10-149	55*	30
Fluorene	930	3150	4610	68	2020	4610	44	14-105	43*	30
Hexachlorobenzene	460 U	3300	4610	72	2140	4610	47	14-114	42*	30
Hexachlorobutadiene	460 U	2140	4610	46	952	4610	21	12-84	75*	30
Hexachlorocyclopentadiene	460 U	315 J	4610	7 *	151 J	4610	3 *	10-101	80*	30
Hexachloroethane	460 U	1400	4610	30	448 J	4610	10 *	16-114	100*	30
Indeno(1,2,3-cd)pyrene	2300	3130	4610	68	1900	4610	41	10-129	50*	30
Isophorone	460 U	2140	4610	46	1790	4610	39	15-95	16	30
N-Nitrosodi-n-propylamine	460 U	1870	4610	41	1690	4610	37	11-98	10	30
N-Nitrosodiphenylamine	460 U	3480	4610	75	2290	4610	50	16-121	40*	30
Naphthalene	460 U	2060	4610	45	1170	4610	25	10-83	57*	30
Nitrobenzene	460 U	1860	4610	40	1310	4610	28	20-84	35*	30
Pentachlorophenol (PCP)	2400 U	3970	4610	86	1460 J	4610	32	10-127	92*	30
Phenanthrene	7700	4320	4610	94	2340	4610	51	10-137	59*	30
Phenol	460 U	2280	4610	49	2130	4610	46	10-109	6	30
Pyrene	7000	4260	4610	92	2490	4610	54	10-147	52*	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18 14:59  
**Date Extracted:** 02/22/18

**Method Blank Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank **Instrument ID:** R-MS-51  
**Lab Code:** RQ1801602-01 **File ID:** I:\ACQUADATA\5973A\DATA\022218\DL989.D\  
**Analysis Method:** 8270D **Analysis Lot:** 581642  
**Prep Method:** EPA 3541 **Extraction Lot:** 308725

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1801602-02	I:\ACQUADATA\5973A\DATA\022218\DL990.D\	02/22/18 15:27
Duplicate Lab Control Sample	RQ1801602-03	I:\ACQUADATA\5973A\DATA\022218\DL991.D\	02/22/18 15:55
TP-01 (3.0-4.0)	R1801453-001	I:\ACQUADATA\5973A\DATA\022218\DL992.D\	02/22/18 16:23
TP-02 (4.0)	R1801453-002	I:\ACQUADATA\5973A\DATA\022218\DL993.D\	02/22/18 16:50
TP-02 (10.0)	R1801453-003	I:\ACQUADATA\5973A\DATA\022218\DL994.D\	02/22/18 17:18
TP-05 (6.0)	R1801453-005	I:\ACQUADATA\5973A\DATA\022218\DL995.D\	02/22/18 17:46
TP-06 (5.5)	R1801453-006	I:\ACQUADATA\5973A\DATA\022218\DL996.D\	02/22/18 18:13
TP-06 (9.0)	R1801453-007	I:\ACQUADATA\5973A\DATA\022218\DL997.D\	02/22/18 18:41
TP-07 (4.0)	R1801453-008	I:\ACQUADATA\5973A\DATA\022218\DL998.D\	02/22/18 19:09
TP-09 (7.0)	R1801453-010	I:\ACQUADATA\5973A\DATA\022218\DM001.D\	02/22/18 20:04
TP-10 (5.0)	R1801453-011	I:\ACQUADATA\5973A\DATA\022218\DM002.D\	02/22/18 20:31
TP-12 (5.0)	R1801453-012	I:\ACQUADATA\5973A\DATA\022218\DM003.D\	02/22/18 20:59
TP-13 (1.0-2.0)	R1801453-013	I:\ACQUADATA\5973A\DATA\022218\DM004.D\	02/22/18 21:26
TP-13 (7.0)	R1801453-014	I:\ACQUADATA\5973A\DATA\022218\DM005.D\	02/22/18 21:54
TP-14 (3.5)	R1801453-015	I:\ACQUADATA\5973A\DATA\022218\DM006.D\	02/22/18 22:21
TP-17 (4.0)	R1801453-016	I:\ACQUADATA\5973A\DATA\022218\DM007.D\	02/22/18 22:49
TP-19 (3.0-4.0)	R1801453-017	I:\ACQUADATA\5973A\DATA\022218\DM008.D\	02/22/18 23:17
TP-20 (9.0)	RQ1801602-04	I:\ACQUADATA\5973A\DATA\022218\DM010.D\	02/23/18 00:12
TP-20 (9.0)	RQ1801602-05	I:\ACQUADATA\5973A\DATA\022218\DM011.D\	02/23/18 00:39
TP-08 (5.5)	R1801453-009	I:\ACQUADATA\5973A\DATA\022718\DM055.D\	02/27/18 10:28
TP-20 (9.0)	R1801453-018	I:\ACQUADATA\5973A\DATA\022718\DM056.D\	02/27/18 10:56
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\5973A\DATA\022718\DM057.D\	02/27/18 11:24

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801602-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	330 U	330	96	1	02/22/18 14:59	2/22/18	
2,3,4,6-Tetrachlorophenol	330 U	330	82	1	02/22/18 14:59	2/22/18	
2,4,5-Trichlorophenol	330 U	330	82	1	02/22/18 14:59	2/22/18	
2,4,6-Trichlorophenol	330 U	330	86	1	02/22/18 14:59	2/22/18	
2,4-Dichlorophenol	330 U	330	68	1	02/22/18 14:59	2/22/18	
2,4-Dimethylphenol	330 U	330	63	1	02/22/18 14:59	2/22/18	
2,4-Dinitrophenol	1700 U	1700	62	1	02/22/18 14:59	2/22/18	
2,4-Dinitrotoluene	330 U	330	86	1	02/22/18 14:59	2/22/18	
2,6-Dinitrotoluene	330 U	330	120	1	02/22/18 14:59	2/22/18	
2-Chloronaphthalene	330 U	330	73	1	02/22/18 14:59	2/22/18	
2-Chlorophenol	330 U	330	80	1	02/22/18 14:59	2/22/18	
2-Methylnaphthalene	330 U	330	74	1	02/22/18 14:59	2/22/18	
2-Methylphenol	330 U	330	80	1	02/22/18 14:59	2/22/18	
2-Nitroaniline	1700 U	1700	95	1	02/22/18 14:59	2/22/18	
2-Nitrophenol	330 U	330	75	1	02/22/18 14:59	2/22/18	
3,3'-Dichlorobenzidine	330 U	330	110	1	02/22/18 14:59	2/22/18	
3- and 4-Methylphenol Coelution	330 U	330	83	1	02/22/18 14:59	2/22/18	
3-Nitroaniline	1700 U	1700	72	1	02/22/18 14:59	2/22/18	
4,6-Dinitro-2-methylphenol	1700 U	1700	72	1	02/22/18 14:59	2/22/18	
4-Bromophenyl Phenyl Ether	330 U	330	94	1	02/22/18 14:59	2/22/18	
4-Chloro-3-methylphenol	330 U	330	75	1	02/22/18 14:59	2/22/18	
4-Chloroaniline	330 U	330	40	1	02/22/18 14:59	2/22/18	
4-Chlorophenyl Phenyl Ether	330 U	330	79	1	02/22/18 14:59	2/22/18	
4-Nitroaniline	1700 U	1700	73	1	02/22/18 14:59	2/22/18	
4-Nitrophenol	1700 U	1700	200	1	02/22/18 14:59	2/22/18	
Acenaphthene	330 U	330	73	1	02/22/18 14:59	2/22/18	
Acenaphthylene	330 U	330	68	1	02/22/18 14:59	2/22/18	
Acetophenone	330 U	330	77	1	02/22/18 14:59	2/22/18	
Anthracene	330 U	330	64	1	02/22/18 14:59	2/22/18	
Atrazine	330 U	330	89	1	02/22/18 14:59	2/22/18	
Benz(a)anthracene	330 U	330	58	1	02/22/18 14:59	2/22/18	
Benzaldehyde	1700 U	1700	79	1	02/22/18 14:59	2/22/18	
Benzo(a)pyrene	330 U	330	67	1	02/22/18 14:59	2/22/18	
Benzo(b)fluoranthene	330 U	330	60	1	02/22/18 14:59	2/22/18	
Benzo(g,h,i)perylene	330 U	330	75	1	02/22/18 14:59	2/22/18	
Benzo(k)fluoranthene	330 U	330	74	1	02/22/18 14:59	2/22/18	
Biphenyl	330 U	330	77	1	02/22/18 14:59	2/22/18	
2,2'-Oxybis(1-chloropropane)	330 U	330	81	1	02/22/18 14:59	2/22/18	
Bis(2-chloroethoxy)methane	330 U	330	76	1	02/22/18 14:59	2/22/18	
Bis(2-chloroethyl) Ether	330 U	330	60	1	02/22/18 14:59	2/22/18	
Bis(2-ethylhexyl) Phthalate	500 U	500	460	1	02/22/18 14:59	2/22/18	
Butyl Benzyl Phthalate	330 U	330	63	1	02/22/18 14:59	2/22/18	
Caprolactam	330 U	330	74	1	02/22/18 14:59	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801602-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	330 U	330	82	1	02/22/18 14:59	2/22/18	
Chrysene	330 U	330	65	1	02/22/18 14:59	2/22/18	
Di-n-butyl Phthalate	330 U	330	110	1	02/22/18 14:59	2/22/18	
Di-n-octyl Phthalate	330 U	330	99	1	02/22/18 14:59	2/22/18	
Dibenz(a,h)anthracene	330 U	330	60	1	02/22/18 14:59	2/22/18	
Dibenzofuran	330 U	330	68	1	02/22/18 14:59	2/22/18	
Diethyl Phthalate	330 U	330	180	1	02/22/18 14:59	2/22/18	
Dimethyl Phthalate	330 U	330	91	1	02/22/18 14:59	2/22/18	
Fluoranthene	330 U	330	78	1	02/22/18 14:59	2/22/18	
Fluorene	330 U	330	83	1	02/22/18 14:59	2/22/18	
Hexachlorobenzene	330 U	330	77	1	02/22/18 14:59	2/22/18	
Hexachlorobutadiene	330 U	330	56	1	02/22/18 14:59	2/22/18	
Hexachlorocyclopentadiene	330 U	330	55	1	02/22/18 14:59	2/22/18	
Hexachloroethane	330 U	330	58	1	02/22/18 14:59	2/22/18	
Indeno(1,2,3-cd)pyrene	330 U	330	73	1	02/22/18 14:59	2/22/18	
Isophorone	330 U	330	71	1	02/22/18 14:59	2/22/18	
N-Nitrosodi-n-propylamine	330 U	330	60	1	02/22/18 14:59	2/22/18	
N-Nitrosodiphenylamine	330 U	330	150	1	02/22/18 14:59	2/22/18	
Naphthalene	330 U	330	68	1	02/22/18 14:59	2/22/18	
Nitrobenzene	330 U	330	68	1	02/22/18 14:59	2/22/18	
Pentachlorophenol (PCP)	1700 U	1700	110	1	02/22/18 14:59	2/22/18	
Phenanthrene	330 U	330	69	1	02/22/18 14:59	2/22/18	
Phenol	330 U	330	72	1	02/22/18 14:59	2/22/18	
Pyrene	330 U	330	65	1	02/22/18 14:59	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	92	13 - 128	02/22/18 14:59	
2-Fluorobiphenyl	74	10 - 102	02/22/18 14:59	
2-Fluorophenol	63	16 - 129	02/22/18 14:59	
Nitrobenzene-d5	73	10 - 95	02/22/18 14:59	
Phenol-d6	68	10 - 145	02/22/18 14:59	
Terphenyl-d14	96	16 - 126	02/22/18 14:59	





ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801602-02				Duplicate Lab Control Sample RQ1801602-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	1770	3420	52	2000	3420	59	31-127	13	30
2,3,4,6-Tetrachlorophenol	8270D	2260	3330	68	2540	3330	76	37-123	11	30
2,4,5-Trichlorophenol	8270D	2050	3330	62	2360	3330	71	32-104	14	30
2,4,6-Trichlorophenol	8270D	2000	3330	60	2250	3330	68	30-101	13	30
2,4-Dichlorophenol	8270D	1900	3330	57	2220	3330	67	39-135	16	30
2,4-Dimethylphenol	8270D	1930	3330	58	2190	3330	66	31-135	13	30
2,4-Dinitrophenol	8270D	1580 J	3330	47	1590 J	3330	48	10-128	2	30
2,4-Dinitrotoluene	8270D	2550	3330	76	2670	3330	80	39-122	5	30
2,6-Dinitrotoluene	8270D	2370	3330	71	2620	3330	79	34-122	11	30
2-Chloronaphthalene	8270D	1830	3330	55	2040	3330	61	41-124	10	30
2-Chlorophenol	8270D	1650	3330	50	2000	3330	60	39-123	18	30
2-Methylnaphthalene	8270D	1780	3330	53	2010	3330	60	33-125	12	30
2-Methylphenol	8270D	1690	3330	51	2010	3330	60	38-123	16	30
2-Nitroaniline	8270D	2310	3330	69	2560	3330	77	25-116	11	30
2-Nitrophenol	8270D	2040	3330	61	2350	3330	70	23-96	14	30
3,3'-Dichlorobenzidine	8270D	1640	3330	49	1750	3330	53	25-105	8	30
3- and 4-Methylphenol Coelution	8270D	1660	3330	50	1950	3330	58	42-114	15	30
3-Nitroaniline	8270D	1810	3330	54	1920	3330	58	43-106	7	30
4,6-Dinitro-2-methylphenol	8270D	2490	3330	75	2280	3330	68	10-127	10	30
4-Bromophenyl Phenyl Ether	8270D	2120	3330	64	2260	3330	68	40-102	6	30
4-Chloro-3-methylphenol	8270D	2020	3330	61	2340	3330	70	42-140	14	30
4-Chloroaniline	8270D	1270	3330	38	1450	3330	44	34-101	15	30
4-Chlorophenyl Phenyl Ether	8270D	2110	3330	63	2290	3330	69	39-100	9	30
4-Nitroaniline	8270D	2160	3330	65	2280	3330	68	35-112	5	30
4-Nitrophenol	8270D	2250	3330	68	2570	3330	77	34-123	12	30
Acenaphthene	8270D	1830	3330	55	2050	3330	62	32-100	12	30
Acenaphthylene	8270D	1950	3330	58	2210	3330	66	33-100	13	30
Acetophenone	8270D	3080	6670	46	3650	6670	55	23-87	18	30
Anthracene	8270D	2310	3330	69	2430	3330	73	46-103	6	30
Atrazine	8270D	2670	3330	80	2760	3330	83	44-137	4	30
Benz(a)anthracene	8270D	2410	3330	72	2640	3330	79	32-105	9	30
Benzaldehyde	8270D	1880	3330	56	2230	3330	67	10-200	18	30
Benzo(a)pyrene	8270D	2610	3330	78	2780	3330	83	48-110	6	30

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801602-02				Duplicate Lab Control Sample RQ1801602-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzo(b)fluoranthene	8270D	2420	3330	73	2540	3330	76	44-107	4	30
Benzo(g,h,i)perylene	8270D	2570	3330	77	2780	3330	84	49-120	9	30
Benzo(k)fluoranthene	8270D	2500	3330	75	2650	3330	80	46-107	6	30
Biphenyl	8270D	1910	3330	57	2120	3330	63	24-104	10	30
2,2'-Oxybis(1-chloropropane)	8270D	1640	3330	49	1940	3330	58	13-63	17	30
Bis(2-chloroethoxy)methane	8270D	1820	3330	55	2100	3330	63	28-91	14	30
Bis(2-chloroethyl) Ether	8270D	1510	3330	45	1780	3330	53	13-63	16	30
Bis(2-ethylhexyl) Phthalate	8270D	2360	3330	71	2620	3330	78	35-119	9	30
Butyl Benzyl Phthalate	8270D	2270	3330	68	2520	3330	76	47-117	11	30
Caprolactam	8270D	2330	3330	70	2500	3330	75	30-111	7	30
Carbazole	8270D	2470	3330	74	2580	3330	77	41-112	4	30
Chrysene	8270D	2510	3330	75	2700	3330	81	48-111	8	30
Di-n-butyl Phthalate	8270D	2410	3330	72	2570	3330	77	51-120	7	30
Di-n-octyl Phthalate	8270D	2340	3330	70	2570	3330	77	47-127	10	30
Dibenz(a,h)anthracene	8270D	2500	3330	75	2720	3330	81	46-114	8	30
Dibenzofuran	8270D	1940	3330	58	2170	3330	65	34-97	11	30
Diethyl Phthalate	8270D	1870	3330	56	2030	3330	61	45-108	9	30
Dimethyl Phthalate	8270D	1820	3330	55	1980	3330	59	41-101	7	30
Fluoranthene	8270D	2620	3330	79	2750	3330	82	45-113	4	30
Fluorene	8270D	1960	3330	59	2160	3330	65	38-101	10	30
Hexachlorobenzene	8270D	2310	3330	69	2430	3330	73	41-106	6	30
Hexachlorobutadiene	8270D	1730	3330	52	2050	3330	62	10-142	18	30
Hexachlorocyclopentadiene	8270D	1730	3330	52	1990	3330	60	10-133	14	30
Hexachloroethane	8270D	1480	3330	44	1730	3330	52	10-129	17	30
Indeno(1,2,3-cd)pyrene	8270D	2620	3330	78	2730	3330	82	46-115	5	30
Isophorone	8270D	1690	3330	51	1950	3330	59	27-95	15	30
N-Nitrosodi-n-propylamine	8270D	1530	3330	46	1800	3330	54	21-89	16	30
N-Nitrosodiphenylamine	8270D	2260	3330	68	2460	3330	74	37-116	8	30
Naphthalene	8270D	1660	3330	50	1920	3330	58	31-123	15	30
Nitrobenzene	8270D	1580	3330	47	1840	3330	55	35-134	16	30
Pentachlorophenol (PCP)	8270D	3040	3330	91	3210	3330	96	10-137	5	30
Phenanthrene	8270D	2230	3330	67	2390	3330	72	45-106	7	30
Phenol	8270D	1780	3330	54	2090	3330	63	10-144	15	30

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pyrene	8270D	2360	3330	71	2580	3330	77	48-117	8	30

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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18 13:49

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\022218\DL987.D\  
**Instrument ID:** R-MS-51

**Analytical Method:** 8270D  
**Analysis Lot:** 581642

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	32.85	42874	Pass
68	69	0.00	2	0.30	169	Pass
69	198	0.00	100	42.86	55941	Pass
70	69	0.00	2	0.48	266	Pass
127	198	10	80	53.83	70256	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	130509	Pass
199	198	5	9	7.38	9636	Pass
275	198	10	60	27.24	35556	Pass
365	198	1	100	3.35	4372	Pass
441	442	0.01	24	18.76	37789	Pass
442	442	100	100	100.00	201461	Pass
443	442	15	24	20.30	40902	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801733-02	I:\ACQUADATA\5973A\DATA\022218\DL988.D\	02/22/18 14:17	
Method Blank	RQ1801602-01	I:\ACQUADATA\5973A\DATA\022218\DL989.D\	02/22/18 14:59	
Lab Control Sample	RQ1801602-02	I:\ACQUADATA\5973A\DATA\022218\DL990.D\	02/22/18 15:27	
Duplicate Lab Control Sample	RQ1801602-03	I:\ACQUADATA\5973A\DATA\022218\DL991.D\	02/22/18 15:55	
TP-01 (3.0-4.0)	R1801453-001	I:\ACQUADATA\5973A\DATA\022218\DL992.D\	02/22/18 16:23	
TP-02 (4.0)	R1801453-002	I:\ACQUADATA\5973A\DATA\022218\DL993.D\	02/22/18 16:50	
TP-02 (10.0)	R1801453-003	I:\ACQUADATA\5973A\DATA\022218\DL994.D\	02/22/18 17:18	
TP-05 (6.0)	R1801453-005	I:\ACQUADATA\5973A\DATA\022218\DL995.D\	02/22/18 17:46	
TP-06 (5.5)	R1801453-006	I:\ACQUADATA\5973A\DATA\022218\DL996.D\	02/22/18 18:13	
TP-06 (9.0)	R1801453-007	I:\ACQUADATA\5973A\DATA\022218\DL997.D\	02/22/18 18:41	
TP-07 (4.0)	R1801453-008	I:\ACQUADATA\5973A\DATA\022218\DL998.D\	02/22/18 19:09	
TP-09 (7.0)	R1801453-010	I:\ACQUADATA\5973A\DATA\022218\DM001.D\	02/22/18 20:04	
TP-10 (5.0)	R1801453-011	I:\ACQUADATA\5973A\DATA\022218\DM002.D\	02/22/18 20:31	
TP-12 (5.0)	R1801453-012	I:\ACQUADATA\5973A\DATA\022218\DM003.D\	02/22/18 20:59	
TP-13 (1.0-2.0)	R1801453-013	I:\ACQUADATA\5973A\DATA\022218\DM004.D\	02/22/18 21:26	
TP-13 (7.0)	R1801453-014	I:\ACQUADATA\5973A\DATA\022218\DM005.D\	02/22/18 21:54	
TP-14 (3.5)	R1801453-015	I:\ACQUADATA\5973A\DATA\022218\DM006.D\	02/22/18 22:21	
TP-17 (4.0)	R1801453-016	I:\ACQUADATA\5973A\DATA\022218\DM007.D\	02/22/18 22:49	
TP-19 (3.0-4.0)	R1801453-017	I:\ACQUADATA\5973A\DATA\022218\DM008.D\	02/22/18 23:17	

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QC/QC Report

TP-20 (9.0)	RQ1801602-04	I:\ACQUADATA\5973A\DATA\022218\DM010.D\	02/23/18 00:12
TP-20 (9.0)	RQ1801602-05	I:\ACQUADATA\5973A\DATA\022218\DM011.D\	02/23/18 00:39

**ALS Group USA, Corp.**  
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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/27/18 09:03

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\022718\DM052.D\  
**Instrument ID:** R-MS-51

**Analytical Method:** 8270D  
**Analysis Lot:** 581919

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	34.64	37675	Pass
68	69	0.00	2	0.69	328	Pass
69	198	0.00	100	43.43	47237	Pass
70	69	0.00	2	0.27	128	Pass
127	198	10	80	54.31	59064	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	108763	Pass
199	198	5	9	7.20	7831	Pass
275	198	10	60	24.89	27072	Pass
365	198	1	100	2.80	3049	Pass
441	442	0.01	24	0.57	908	Pass
442	442	100	100	100.00	158681	Pass
443	442	15	24	19.81	31432	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801823-02	I:\ACQUADATA\5973A\DATA\022718\DM053.D\	02/27/18 09:32	
TP-08 (5.5)	R1801453-009	I:\ACQUADATA\5973A\DATA\022718\DM055.D\	02/27/18 10:28	
TP-20 (9.0)	R1801453-018	I:\ACQUADATA\5973A\DATA\022718\DM056.D\	02/27/18 10:56	
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\5973A\DATA\022718\DM057.D\	02/27/18 11:24	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/22/18 14:17

**Internal Standard Area and RT SUMMARY**  
**Semivolatiles Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\022218\DL988.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801733-02  
**Analysis Lot:**581642  
**Signal ID:**

	1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	255,267	4.79	458,468	7.66	752,093	12.41
<b>Upper Limit ==&gt;</b>	510,534	5.29	916,936	8.16	1,504,186	12.91
<b>Lower Limit ==&gt;</b>	127,634	4.29	229,234	7.16	376,047	11.91

**Associated Analyses**

Method Blank	RQ1801602-01	185205	4.79	327276	7.66	500747	12.40
Lab Control Sample	RQ1801602-02	180700	4.79	316303	7.66	529725	12.41
Duplicate Lab Control Sample	RQ1801602-03	177189	4.79	323616	7.66	537470	12.41
TP-01 (3.0-4.0)	R1801453-001	214922	4.79	387507	7.66	635821	12.40
TP-02 (4.0)	R1801453-002	173063	4.79	318698	7.66	508283	12.40
TP-02 (10.0)	R1801453-003	172429	4.79	313605	7.66	513520	12.40
TP-05 (6.0)	R1801453-005	192535	4.79	347534	7.66	542473	12.40
TP-06 (5.5)	R1801453-006	185171	4.79	332329	7.66	536442	12.40
TP-06 (9.0)	R1801453-007	202875	4.79	361183	7.66	564159	12.40
TP-07 (4.0)	R1801453-008	190589	4.79	328605	7.66	529964	12.41
TP-09 (7.0)	R1801453-010	192359	4.79	351011	7.66	549447	12.41
TP-10 (5.0)	R1801453-011	211262	4.79	383706	7.66	597529	12.41
TP-12 (5.0)	R1801453-012	200132	4.79	362547	7.66	555057	12.41
TP-13 (1.0-2.0)	R1801453-013	212776	4.79	378539	7.66	581191	12.41
TP-13 (7.0)	R1801453-014	174803	4.79	321475	7.66	498529	12.41
TP-14 (3.5)	R1801453-015	185413	4.79	335638	7.66	511044	12.41
TP-17 (4.0)	R1801453-016	158177	4.79	284968	7.66	446815	12.41
TP-19 (3.0-4.0)	R1801453-017	195754	4.79	354633	7.66	557526	12.41
TP-20 (9.0)	RQ1801602-04	172193	4.79	310606	7.67	489942	12.43
TP-20 (9.0)	RQ1801602-05	170034	4.79	307599	7.67	475017	12.43



**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/22/18 14:17

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\022218\DL988.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801733-02  
**Analysis Lot:**581642  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	949,617	5.96	739,932	15.35	786,557	9.13
<b>Upper Limit ==&gt;</b>	1,899,234	6.46	1,479,864	15.85	1,573,114	9.63
<b>Lower Limit ==&gt;</b>	474,809	5.46	369,966	14.85	393,279	8.63

**Associated Analyses**

Method Blank	RQ1801602-01	692057	5.95	564809	15.34	527585	9.13
Lab Control Sample	RQ1801602-02	663866	5.95	536410	15.35	507180	9.13
Duplicate Lab Control Sample	RQ1801602-03	668511	5.95	557097	15.35	526842	9.13
TP-01 (3.0-4.0)	R1801453-001	813348	5.95	661072	15.35	698891	9.12
TP-02 (4.0)	R1801453-002	658980	5.95	532248	15.34	553540	9.13
TP-02 (10.0)	R1801453-003	661944	5.95	533150	15.34	553900	9.13
TP-05 (6.0)	R1801453-005	716989	5.95	581863	15.34	580938	9.13
TP-06 (5.5)	R1801453-006	695823	5.95	552557	15.35	588795	9.13
TP-06 (9.0)	R1801453-007	759386	5.95	612271	15.35	600972	9.13
TP-07 (4.0)	R1801453-008	714066	5.95	551110	15.35	552546	9.13
TP-09 (7.0)	R1801453-010	730865	5.95	560440	15.36	609503	9.13
TP-10 (5.0)	R1801453-011	795880	5.96	599950	15.36	667038	9.13
TP-12 (5.0)	R1801453-012	756891	5.96	556607	15.36	622575	9.13
TP-13 (1.0-2.0)	R1801453-013	794135	5.96	561408	15.36	663465	9.13
TP-13 (7.0)	R1801453-014	663148	5.96	483045	15.36	530563	9.13
TP-14 (3.5)	R1801453-015	695043	5.96	468865	15.37	562456	9.13
TP-17 (4.0)	R1801453-016	597083	5.96	403416	15.37	477768	9.13
TP-19 (3.0-4.0)	R1801453-017	732604	5.96	505201	15.37	626992	9.13
TP-20 (9.0)	RQ1801602-04	656685	5.96	434484	15.37	510028	9.14
TP-20 (9.0)	RQ1801602-05	676184	5.96	413376	15.37	502126	9.14

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/27/18 09:32

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973A\DATA\022718\DM053.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801823-02  
**Analysis Lot:**581919  
**Signal ID:**

	1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12		
	Area	RT	Area	RT	Area	RT	
<b>ICAL Result ==&gt;</b>	196,342	4.79	364,226	7.67	609,919	12.44	
<b>Upper Limit ==&gt;</b>	392,684	5.29	728,452	8.17	1,219,838	12.94	
<b>Lower Limit ==&gt;</b>	98,171	4.29	182,113	7.17	304,960	11.94	
<b>Associated Analyses</b>							
TP-08 (5.5)	R1801453-009	191096	4.79	350799	7.66	563486	12.43
TP-20 (9.0)	R1801453-018	186172	4.79	337085	7.67	533873	12.43
TP-22 (4.0-5.0)	R1801453-019	190977	4.79	367031	7.67	565745	12.43

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453  
**Date Analyzed:**02/27/18 09:32

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973A\DATA\022718\DM053.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801823-02  
**Analysis Lot:**581919  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	765,214	5.96	624,442	15.39	642,070	9.14
<b>Upper Limit ==&gt;</b>	1,530,428	6.46	1,248,884	15.89	1,284,140	9.64
<b>Lower Limit ==&gt;</b>	382,607	5.46	312,221	14.89	321,035	8.64

**Associated Analyses**

		Area	RT	Area	RT	Area	RT
TP-08 (5.5)	R1801453-009	736187	5.96	590918	15.38	606831	9.13
TP-20 (9.0)	R1801453-018	709077	5.96	565701	15.38	590959	9.14
TP-22 (4.0-5.0)	R1801453-019	738484	5.96	592589	15.38	622759	9.14



## Semivolatile Organic Compounds by GC

**ALS Environmental—Rochester Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453

**SURROGATE RECOVERY SUMMARY**  
**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10 - 122	10 - 123
TP-04 (6.0-7.0)	R1801453-004	79	66
TP-12 (5.0)	R1801453-012	89	76
Method Blank	RQ1801536-01	70	33
Lab Control Sample	RQ1801536-02	70	36
Duplicate Lab Control Sample	RQ1801536-03	69	35
TP-04 (6.0-7.0) MS	RQ1801536-04	78	55
TP-04 (6.0-7.0) DMS	RQ1801536-05	92	76

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 02/23/18  
**Date Extracted:** 02/21/18

**Duplicate Matrix Spike Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004  
**Analysis Method:** 8081B  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Sample Result	Matrix Spike RQ1801536-04			Duplicate Matrix Spike RQ1801536-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
4,4'-DDD	10 U	10 U	7.89	0 *	9.50 J	7.86	121	10-165	NC	30
4,4'-DDE	5.0 J	9.14 J	7.89	52	17.0	7.86	152	10-165	60*	30
4,4'-DDT	49	59.4	7.89	136 #	95.4	7.86	596 #	10-163	47*	30
Aldrin	10 U	7.70 J	7.89	98	7.49 J	7.86	95	10-167	3	30
Dieldrin	16	20.6	7.89	64	30.4	7.86	190 *	24-140	39*	30
Endosulfan I	10 U	5.52 J	7.89	70	10.4	7.86	132	13-145	61*	30
Endosulfan II	10 U	29.4	7.89	373 *	47.4	7.86	603 *	12-178	47*	30
Endosulfan Sulfate	10 U	7.92 J	7.89	100	35.4	7.86	450 *	15-157	127*	30
Endrin	10 U	14.3	7.89	181 *	22.1	7.86	281 *	16-153	43*	30
Endrin Aldehyde	10 U	10.3	7.89	130	17.0	7.86	217 *	10-161	49*	30
Endrin Ketone	41	35.0	7.89	-72 #	64.3	7.86	301 #	17-161	59*	30
Heptachlor	10 U	6.36 J	7.89	81	7.69 J	7.86	98	10-160	19	30
Heptachlor Epoxide	10 U	6.88 J	7.89	87	20.6	7.86	262 *	10-166	100*	30
Methoxychlor	18	27.6	7.89	128	30.3	7.86	163	10-192	9	30
alpha-BHC	10 U	5.70 J	7.89	72	6.81 J	7.86	87	10-149	18	30
alpha-Chlordane	10 U	7.22 J	7.89	91	9.40 J	7.86	120	10-180	26	30
beta-BHC	10 U	6.43 J	7.89	81	6.03 J	7.86	77	10-176	6	30
delta-BHC	10 U	6.70 J	7.89	85	8.04 J	7.86	102	17-138	18	30
gamma-BHC (Lindane)	10 U	8.70 J	7.89	110	8.37 J	7.86	107	10-141	4	30
gamma-Chlordane	10 U	8.16 J	7.89	103	9.38 J	7.86	119	14-139	14	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801536-01

**Units:** ug/Kg  
**Basis:** Dry

**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1.7 U	1.7	1.2	1	02/23/18 16:16	2/21/18	
4,4'-DDE	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
4,4'-DDT	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
Aldrin	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
Dieldrin	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
Endosulfan I	1.7 U	1.7	0.90	1	02/23/18 16:16	2/21/18	
Endosulfan II	1.7 U	1.7	0.92	1	02/23/18 16:16	2/21/18	
Endosulfan Sulfate	1.7 U	1.7	0.97	1	02/23/18 16:16	2/21/18	
Endrin	1.7 U	1.7	1.1	1	02/23/18 16:16	2/21/18	
Endrin Aldehyde	1.7 U	1.7	0.86	1	02/23/18 16:16	2/21/18	
Endrin Ketone	1.7 U	1.7	1.4	1	02/23/18 16:16	2/21/18	
Heptachlor	1.7 U	1.7	0.85	1	02/23/18 16:16	2/21/18	
Heptachlor Epoxide	1.7 U	1.7	0.93	1	02/23/18 16:16	2/21/18	
Methoxychlor	1.7 U	1.7	1.1	1	02/23/18 16:16	2/21/18	
Toxaphene	17 U	17	8.4	1	02/23/18 16:16	2/21/18	
alpha-BHC	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
alpha-Chlordane	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
beta-BHC	1.7 U	1.7	0.91	1	02/23/18 16:16	2/21/18	
delta-BHC	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	
gamma-BHC (Lindane)	1.7 U	1.7	0.95	1	02/23/18 16:16	2/21/18	
gamma-Chlordane	1.7 U	1.7	0.84	1	02/23/18 16:16	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	70	10 - 122	02/23/18 16:16	
Tetrachloro-m-xylene	33	10 - 123	02/23/18 16:16	



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 15:40  
**Date Extracted:** 02/21/18

**Lab Control Sample Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Sample Name:** Lab Control Sample      **Instrument ID:** R-GC-62  
**Lab Code:** RQ1801536-02      **File ID:** I:\ACQUADATA\7890m\DATA\022318\au723.D\  
**Analysis Method:** 8081B      **Analysis Lot:** 581710  
**Prep Method:** EPA 3541      **Extraction Lot:** 308673

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Duplicate Lab Control Sample	RQ1801536-03	I:\ACQUADATA\7890m\DATA\022318\au724.D\	02/23/18 15:58
Method Blank	RQ1801536-01	I:\ACQUADATA\7890m\DATA\022318\au725.D\	02/23/18 16:16
TP-04 (6.0-7.0)	R1801453-004	I:\ACQUADATA\7890m\DATA\022318\au736.D\	02/23/18 19:35
TP-04 (6.0-7.0)	RQ1801536-04	I:\ACQUADATA\7890m\DATA\022318\au737.D\	02/23/18 19:53
TP-04 (6.0-7.0)	RQ1801536-05	I:\ACQUADATA\7890m\DATA\022318\au738.D\	02/23/18 20:11
TP-12 (5.0)	R1801453-012	I:\ACQUADATA\7890m\DATA\022318\au739.D\	02/23/18 20:29

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18

**Duplicate Lab Control Sample Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801536-02				Duplicate Lab Control Sample RQ1801536-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
4,4'-DDD	8081B	5.04	6.67	76	4.78	6.67	72	17-138	5	30
4,4'-DDE	8081B	5.20	6.67	78	5.04	6.67	76	35-125	3	30
4,4'-DDT	8081B	5.36	6.67	80	5.50	6.67	83	34-123	3	30
Aldrin	8081B	4.04	6.67	61	3.94	6.67	59	10-103	3	30
Dieldrin	8081B	4.92	6.67	74	4.76	6.67	71	22-120	3	30
Endosulfan I	8081B	4.83	6.67	72	4.60	6.67	69	30-108	5	30
Endosulfan II	8081B	4.99	6.67	75	4.94	6.67	74	26-122	1	30
Endosulfan Sulfate	8081B	5.35	6.67	80	5.21	6.67	78	22-121	3	30
Endrin	8081B	5.65	6.67	85	5.44	6.67	82	42-133	4	30
Endrin Aldehyde	8081B	1.45 J	6.67	22	1.60 J	6.67	24	10-73	9	30
Endrin Ketone	8081B	5.79	6.67	87	4.92	6.67	74	36-116	16	30
Heptachlor	8081B	3.96	6.67	59	3.83	6.67	57	31-115	3	30
Heptachlor Epoxide	8081B	4.75	6.67	71	4.74	6.67	71	27-131	<1	30
Methoxychlor	8081B	5.46	6.67	82	5.24	6.67	79	32-148	4	30
alpha-BHC	8081B	3.57	6.67	54	3.61	6.67	54	19-126	<1	30
alpha-Chlordane	8081B	5.02	6.67	75	4.79	6.67	72	31-104	5	30
beta-BHC	8081B	5.27	6.67	79	5.09	6.67	76	28-123	4	30
delta-BHC	8081B	4.87	6.67	73	4.67	6.67	70	17-126	4	30
gamma-BHC (Lindane)	8081B	3.76	6.67	56	3.55	6.67	53	23-125	6	30
gamma-Chlordane	8081B	5.12	6.67	77	4.59	6.67	69	28-107	11	30

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 2/19/18

**Units:** ug/Kg  
**Basis:** Dry  
**Percent Solids:** 84.5

Organochlorine Pesticides by Gas Chromatography

**Analytical Method:** 8081B  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	5.0	5.0	5.5	10	J	5	02/23/18 19:35
4,4'-DDT	5.0	49	56	13		5	02/23/18 19:35
Dieldrin	5.0	16	25	44		5	02/23/18 19:35
Endrin Ketone	8.0	41	47	14		5	02/23/18 19:35
Methoxychlor	6.2	18	22	20		5	02/23/18 19:35

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 2/19/18

**Units:** ug/Kg  
**Basis:** Dry  
**Percent Solids:** 81.1

Organochlorine Pesticides by Gas Chromatography

**Analytical Method:** 8081B  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	5.2	5.5	6.7	20	J	5	02/23/18 20:29

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801536-02

**Units:** ug/Kg  
**Basis:** Dry

Organochlorine Pesticides by Gas Chromatography

**Analytical Method:** 8081B  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	1.2	5.04	5.05	<1		1	02/23/18 15:40
4,4'-DDE	0.84	5.20	5.67	9		1	02/23/18 15:40
4,4'-DDT	0.84	5.36	5.64	5		1	02/23/18 15:40
Aldrin	0.84	4.04	4.63	14		1	02/23/18 15:40
Dieldrin	0.84	4.92	5.40	9		1	02/23/18 15:40
Endosulfan I	0.90	4.83	5.20	7		1	02/23/18 15:40
Endosulfan II	0.92	4.99	5.55	11		1	02/23/18 15:40
Endosulfan Sulfate	0.97	5.35	5.44	2		1	02/23/18 15:40
Endrin	1.1	5.65	5.66	<1		1	02/23/18 15:40
Endrin Aldehyde	0.86	1.45	1.56	7	J	1	02/23/18 15:40
Endrin Ketone	1.4	5.79	5.95	3		1	02/23/18 15:40
Heptachlor	0.85	3.96	4.38	10		1	02/23/18 15:40
Heptachlor Epoxide	0.93	4.75	4.94	4		1	02/23/18 15:40
Methoxychlor	1.1	5.46	5.52	1		1	02/23/18 15:40
alpha-BHC	0.84	3.57	3.72	4		1	02/23/18 15:40
alpha-Chlordane	0.84	5.02	5.21	4		1	02/23/18 15:40
beta-BHC	0.91	5.27	5.34	1		1	02/23/18 15:40
delta-BHC	0.84	4.87	5.39	10		1	02/23/18 15:40
gamma-BHC (Lindane)	0.95	3.76	3.94	5		1	02/23/18 15:40
gamma-Chlordane	0.84	5.12	5.25	3		1	02/23/18 15:40

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** RQ1801536-03

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:**

**Units:** ug/Kg  
**Basis:** Dry

Organochlorine Pesticides by Gas Chromatography

**Analytical Method:** 8081B  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	1.2	4.78	5.02	5		1	02/23/18 15:58
4,4'-DDE	0.84	5.04	5.32	5		1	02/23/18 15:58
4,4'-DDT	0.84	5.50	5.62	2		1	02/23/18 15:58
Aldrin	0.84	3.94	4.45	12		1	02/23/18 15:58
Dieldrin	0.84	4.76	5.22	9		1	02/23/18 15:58
Endosulfan I	0.90	4.60	5.14	11		1	02/23/18 15:58
Endosulfan II	0.92	4.94	5.45	10		1	02/23/18 15:58
Endosulfan Sulfate	0.97	5.21	5.36	3		1	02/23/18 15:58
Endrin	1.1	5.44	5.50	1		1	02/23/18 15:58
Endrin Aldehyde	0.86	1.60	1.64	2	J	1	02/23/18 15:58
Endrin Ketone	1.4	4.92	5.77	16		1	02/23/18 15:58
Heptachlor	0.85	3.83	4.23	10		1	02/23/18 15:58
Heptachlor Epoxide	0.93	4.74	4.82	2		1	02/23/18 15:58
Methoxychlor	1.1	5.24	5.70	8		1	02/23/18 15:58
alpha-BHC	0.84	3.61	4.01	10		1	02/23/18 15:58
alpha-Chlordane	0.84	4.79	5.11	6		1	02/23/18 15:58
beta-BHC	0.91	5.09	5.21	2		1	02/23/18 15:58
delta-BHC	0.84	4.67	5.23	11		1	02/23/18 15:58
gamma-BHC (Lindane)	0.95	3.55	3.83	8		1	02/23/18 15:58
gamma-Chlordane	0.84	4.59	5.08	10		1	02/23/18 15:58

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** RQ1801536-04

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 2/19/18

**Units:** ug/Kg  
**Basis:** Dry  
**Percent Solids:** 84.5

Organochlorine Pesticides by Gas Chromatography

**Analytical Method:** 8081B  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	5.0	9.14	12.9	34	J	5	02/23/18 19:53
4,4'-DDT	5.0	59.4	59.4	<1		5	02/23/18 19:53
Aldrin	5.0	7.70	8.00	4	J	5	02/23/18 19:53
Dieldrin	5.0	20.6	30.9	40		5	02/23/18 19:53
Endosulfan I	5.4	5.52	8.69	45	J	5	02/23/18 19:53
Endosulfan II	5.5	29.4	8.27	112		5	02/23/18 19:53
Endosulfan Sulfate	5.8	7.92	19.1	83	J	5	02/23/18 19:53
Endrin	6.1	14.3	39.8	94		5	02/23/18 19:53
Endrin Aldehyde	5.1	10.3	17.5	52		5	02/23/18 19:53
Endrin Ketone	8.0	35.0	50.8	37		5	02/23/18 19:53
Heptachlor	5.1	6.36	6.95	9	J	5	02/23/18 19:53
Heptachlor Epoxide	5.6	6.88	15.2	75	J	5	02/23/18 19:53
Methoxychlor	6.3	27.6	29.9	8		5	02/23/18 19:53
alpha-BHC	5.0	5.70	5.93	4	J	5	02/23/18 19:53
alpha-Chlordane	5.0	7.22	8.21	13	J	5	02/23/18 19:53
beta-BHC	5.4	6.43	7.09	10	J	5	02/23/18 19:53
delta-BHC	5.0	6.70	6.76	<1	J	5	02/23/18 19:53
gamma-BHC (Lindane)	5.7	8.70	8.79	1	J	5	02/23/18 19:53
gamma-Chlordane	5.0	8.16	8.20	<1	J	5	02/23/18 19:53

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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** RQ1801536-05

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 2/19/18

**Units:** ug/Kg  
**Basis:** Dry  
**Percent Solids:** 84.5

Organochlorine Pesticides by Gas Chromatography

**Analytical Method:** 8081B  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	6.6	9.50	11.9	22	J	5	02/23/18 20:11
4,4'-DDE	5.0	17.0	18.7	10		5	02/23/18 20:11
4,4'-DDT	5.0	95.4	109	13		5	02/23/18 20:11
Aldrin	5.0	7.49	9.32	22	J	5	02/23/18 20:11
Dieldrin	5.0	30.4	46.5	42		5	02/23/18 20:11
Endosulfan I	5.4	10.4	12.3	17		5	02/23/18 20:11
Endosulfan II	5.5	47.4	14.5	106		5	02/23/18 20:11
Endosulfan Sulfate	5.8	35.4	11.0	105		5	02/23/18 20:11
Endrin	6.1	22.1	70.8	105		5	02/23/18 20:11
Endrin Aldehyde	5.1	17.0	29.3	53		5	02/23/18 20:11
Endrin Ketone	8.0	64.3	88.5	32		5	02/23/18 20:11
Heptachlor	5.1	7.69	8.43	9	J	5	02/23/18 20:11
Heptachlor Epoxide	5.5	20.6	8.11	87		5	02/23/18 20:11
Methoxychlor	6.2	30.3	45.4	40		5	02/23/18 20:11
alpha-BHC	5.0	6.81	8.10	17	J	5	02/23/18 20:11
alpha-Chlordane	5.0	9.40	9.97	6	J	5	02/23/18 20:11
beta-BHC	5.4	6.03	8.04	29	J	5	02/23/18 20:11
delta-BHC	5.0	8.04	8.06	<1	J	5	02/23/18 20:11
gamma-BHC (Lindane)	5.6	8.37	8.99	7	J	5	02/23/18 20:11
gamma-Chlordane	5.0	9.38	9.47	<1	J	5	02/23/18 20:11



ALS Group USA, Corp.  
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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** Performance Evaluation  
**Lab Code:** RQ1801752-01

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:**

**Units:** ug/Kg  
**Basis:** Dry

Organochlorine Pesticides by Gas Chromatography

8081B

Prep Method:

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD		1.5	1.8	18		1	02/23/18 15:01
4,4'-DDE		0.45	0.57	24		1	02/23/18 15:01
4,4'-DDT		110	120	9		1	02/23/18 15:01
Aldrin		0	0			1	02/23/18 15:01
Dieldrin		0	0			1	02/23/18 15:01
Endosulfan I		0	0			1	02/23/18 15:01
Endosulfan II		0	0			1	02/23/18 15:01
Endosulfan Sulfate		0	0			1	02/23/18 15:01
Endrin		55	60	9		1	02/23/18 15:01
Endrin Aldehyde		0	0			1	02/23/18 15:01
Endrin Ketone		0.89	1.1	21		1	02/23/18 15:01
Heptachlor		0	0			1	02/23/18 15:01
Heptachlor Epoxide		0	0			1	02/23/18 15:01
Methoxychlor		240	260	8	E	1	02/23/18 15:01
Toxaphene		0	0			1	02/23/18 15:01
alpha-BHC		12	12	<1		1	02/23/18 15:01
alpha-Chlordane		0	0			1	02/23/18 15:01
beta-BHC		12	12	<1		1	02/23/18 15:01
delta-BHC		0	0			1	02/23/18 15:01
gamma-BHC (Lindane)		12	12	<1		1	02/23/18 15:01
gamma-Chlordane		0	0			1	02/23/18 15:01

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453

**SURROGATE RECOVERY SUMMARY**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		22 - 128	14 - 119
TP-22 (4.0-5.0)	R1801453-019	79	73
Method Blank	RQ1801536-01	78	39
Lab Control Sample	RQ1801536-02	86	46
Duplicate Lab Control Sample	RQ1801536-03	87	45
TP-22 (4.0-5.0) MS	RQ1801536-06	78	70
TP-22 (4.0-5.0) DMS	RQ1801536-07	80	71

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 02/26/18  
**Date Extracted:** 02/21/18

**Duplicate Matrix Spike Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019  
**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Sample Result	Result	Matrix Spike RQ1801536-06		Duplicate Matrix Spike RQ1801536-07		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Aroclor 1016	41 U	171	205	84	210	205	102	18-144	20	30
Aroclor 1260	41 U	180	205	88	163	205	80	19-162	10	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801536-01

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	17	1	02/26/18 18:13	2/21/18	
Aroclor 1221	67 U	67	33	1	02/26/18 18:13	2/21/18	
Aroclor 1232	33 U	33	20	1	02/26/18 18:13	2/21/18	
Aroclor 1242	33 U	33	17	1	02/26/18 18:13	2/21/18	
Aroclor 1248	33 U	33	26	1	02/26/18 18:13	2/21/18	
Aroclor 1254	33 U	33	19	1	02/26/18 18:13	2/21/18	
Aroclor 1260	33 U	33	17	1	02/26/18 18:13	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	78	22 - 128	02/26/18 18:13	
Tetrachloro-m-xylene	39	14 - 119	02/26/18 18:13	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/26/18 18:33  
**Date Extracted:** 02/21/18

**Lab Control Sample Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Sample Name:** Lab Control Sample

**Instrument ID:**R-GC-54

**Lab Code:** RQ1801536-02

**File ID:**I:\ACQUADATA\6890D\DATA\022618\GA857.D\

**Analysis Method:** 8082A

**Analysis Lot:**581722

**Prep Method:** EPA 3541

**Extraction Lot:**308673

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
TP-22 (4.0-5.0)	R1801453-019	I:\ACQUADATA\6890D\DATA\022618\GA853.D\	02/26/18 17:14
TP-22 (4.0-5.0)	RQ1801536-06	I:\ACQUADATA\6890D\DATA\022618\GA854.D\	02/26/18 17:34
TP-22 (4.0-5.0)	RQ1801536-07	I:\ACQUADATA\6890D\DATA\022618\GA855.D\	02/26/18 17:54
Method Blank	RQ1801536-01	I:\ACQUADATA\6890D\DATA\022618\GA856.D\	02/26/18 18:13
Duplicate Lab Control Sample	RQ1801536-03	I:\ACQUADATA\6890D\DATA\022618\GA858.D\	02/26/18 18:53

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/26/18

**Duplicate Lab Control Sample Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Aroclor 1016	8082A	90.3	167	54	117	167	70	43-129	26	30
Aroclor 1260	8082A	149	167	89	160	167	96	49-135	7	30

ALS Group USA, Corp.  
dba ALS Environmental

Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801536-02

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:**

**Units:** ug/Kg  
**Basis:** Dry

Polychlorinated Biphenyls (PCBs) by GC

**Analytical Method:** 8082A  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	17	90.3	93.9	4		1	02/26/18 18:33
Aroclor 1260	17	149	150	<1		1	02/26/18 18:33



ALS Group USA, Corp.  
dba ALS Environmental

Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** Duplicate Lab Control Sample  
**Lab Code:** RQ1801536-03

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:**

**Units:** ug/Kg  
**Basis:** Dry

Polychlorinated Biphenyls (PCBs) by GC

**Analytical Method:** 8082A  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	17	117	127	8		1	02/26/18 18:53
Aroclor 1260	17	160	167	4		1	02/26/18 18:53

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dba ALS Environmental

Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** RQ1801536-06

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 2/19/18

**Units:** ug/Kg  
**Basis:** Dry  
**Percent Solids:** 81.1

Polychlorinated Biphenyls (PCBs) by GC

**Analytical Method:** 8082A  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	21	171	210	20		1	02/26/18 17:34
Aroclor 1260	21	180	188	4		1	02/26/18 17:34

ALS Group USA, Corp.  
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Confirmation Results

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**SRM Matrix:** Soil  
**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** RQ1801536-07

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 2/19/18

**Units:** ug/Kg  
**Basis:** Dry  
**Percent Solids:** 81.1

Polychlorinated Biphenyls (PCBs) by GC

**Analytical Method:** 8082A  
**Prep Method:** EPA 3541

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1016	21	210	220	5		1	02/26/18 17:54
Aroclor 1260	21	163	178	9		1	02/26/18 17:54



# Metals

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**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	973	97	1000	951	95	945	94	P
Barium	10000	10300	103	10000	10300	103	10100	101	P
Cadmium	500	502	100	500	496	99	489	98	P
Mercury	3.00	3.11	104	3.00	3.18	106	3.22	107	CV
Chromium	500	520	104	500	521	104	518	104	P
Lead	500	503	101	500	497	99	491	98	P
Selenium	500	481	96	500	481	96	475	95	P
Silver	500	478	96	500	477	95	473	95	P

Comments:

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	942	94	942	94	P
Barium				10000	10100	101	10100	101	P
Cadmium				500	490	98	489	98	P
Mercury				3.00	3.26	109	3.31	110	CV
Chromium				500	520	104	521	104	P
Lead				500	493	99	492	98	P
Selenium				500	471	94	472	94	P
Silver				500	474	95	474	95	P

Comments:

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	943	94			P
Barium				10000	10100	101			P
Cadmium				500	488	98			P
Chromium				500	521	104			P
Lead				500	489	98			P
Selenium				500	472	94			P
Silver				500	473	95			P

Comments:

**METALS**  
-2B-  
CRDL STANDARD FOR AA AND ICP

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
				True	Found	%R	Found	%R
Arsenic				20.0	21.40	107	19.60	98
Barium				200.0	211.00	106	207.00	104
Cadmium				10.0	9.90	99	9.80	98
Mercury	0.200	0.210	105					
Chromium				10.0	10.00	100	10.20	102
Lead				10.0	9.00	90	9.40	94
Selenium				10.0	10.80	108	11.00	110
Silver				10.0	9.70	97	9.50	95

Comments:



**METALS**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.221	110					

Comments:

METALS

-3-

BLANKS

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic	2.90 U	2.90	U	2.90	U	2.90	U	0.290	U	P
Barium	0.73 U	0.80	J	1.10	J	1.60	J	0.073	U	P
Cadmium	0.17 U	0.17	U	0.17	U	0.17	U	0.020	J	P
Mercury	0.057 U	0.057	U	0.057	U	0.057	U	0.009	U	CV
Chromium	0.91 U	0.91	U	0.91	U	0.91	U	0.091	U	P
Lead	1.94 U	1.94	U	1.94	U	1.94	U	0.194	U	P
Selenium	3.77 U	3.77	U	3.77	U	3.77	U	0.377	U	P
Silver	0.66 U	0.66	U	0.66	U	0.66	U	0.066	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		2.90	U	2.90	U					P
Barium		2.20	J	3.10	J					P
Cadmium		0.17	U	0.17	U					P
Mercury		0.057	U							CV
Chromium		0.91	U	0.91	U					P
Lead		1.94	U	1.94	U					P
Selenium		3.77	U	3.77	U					P
Silver		0.66	U	0.66	U					P

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	-0.7	99	99	2.9	101	101
Barium		500	0.5	526	105	0.5	521	104
Cadmium		1000	-0.9	963	96	-0.7	947	95
Chromium		500	-0.1	506	101	-0.1	507	101
Lead		50	-0.9	48	96	-2.0	48	96
Selenium		50	1.9	54	108	-2.5	49	98
Silver		200	-0.1	215	108	-0.1	215	108

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-02 (10.0) S

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	7.25	3.48	4.7	80		P
Barium	75 - 125	270.00	44.40	234.0	96		P
Cadmium	75 - 125	6.02	0.75	5.9	89		P
Mercury	75 - 125	0.268	0.050	0.20	109		CV
Chromium	75 - 125	33.20	10.70	23.5	96		P
Lead	75 - 125	62.80	9.73	58.6	91		P
Selenium	75 - 125	105.00	0.71 J	118.0	88		P
Silver	75 - 125	5.45	0.08 U	5.9	92		P

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-02 (10.0) SD

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	7.56	3.48	4.8	85		P
Barium	75 - 125	271.00	44.40	242.0	94		P
Cadmium	75 - 125	6.06	0.75	6.0	88		P
Mercury	75 - 125	0.254	0.050	0.19	107		CV
Chromium	75 - 125	33.80	10.70	24.1	96		P
Lead	75 - 125	66.60	9.73	60.4	94		P
Selenium	75 - 125	106.00	0.71	122.0	86		P
Silver	75 - 125	5.49	0.08	6.0	92		P

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

METALS  
-6-  
DUPLICATES

SAMPLE NO.

TP-02 (10.0)SD

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.0 % Solids for Duplicate: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Arsenic		7.25	7.56	4		P
Barium		270.00	271.00	0		P
Cadmium		6.02	6.06	1		P
Mercury		0.268	0.254	5		CV
Chromium		33.20	33.80	2		P
Lead		62.80	66.60	6		P
Selenium		105.00	106.00	1		P
Silver		5.45	5.49	1		P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Solid LCS Source: CPI

Aqueous LCS Source: \_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/K)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				4	3.67		3.2   4.8	92
Barium				200	203.80		160   240	102
Cadmium				5	4.94		4   6	99
Mercury				0.166	0.18		.133   .199	108
Chromium				20	20.60		16   24	103
Lead				50	48.54		40   60	97
Selenium				101	90.08		80.8   121	89
Silver				5	4.62		4   6	92

Comments: \_\_\_\_\_



METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

TP-02 (10.0)L

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	30.00	29.50 J	2		P
Barium	382.00	418.00	9		P
Cadmium	6.50	7.00 J	8		P
Chromium	92.50	101.00	9		P
Lead	83.80	87.00 J	4		P
Selenium	6.10 J	18.80 U	100.0		P
Silver	0.66 U	3.30 U			P

Comments: \_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

ICP ID Number: \_\_\_\_\_ Date: 5/5/2017

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.057	CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

ICP ID Number: Agilent ICP Date: 3/16/2017

Flame AA ID Number: \_\_\_\_\_

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Arsenic	188.980		10.0	2.90	P
Barium	230.424		20.0	0.73	P
Cadmium	214.439		5.0	0.17	P
Chromium	267.716		10.0	0.91	P
Lead	220.353		50.0	1.94	P
Selenium	196.026		10.0	3.77	P
Silver	328.068		10.0	0.66	P

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
ICP LINEAR RANGES (QUARTERLY)

-12-

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

ICP ID Number: Agilent ICP Date: 4/28/2017

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Cadmium	1.000	2000	P
Chromium	1.000	10000	P
Lead	1.000	10000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS

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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/23/2018 End Date: 2/23/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	16:42				X	X		X	X				X						X	X					
STANDARD 1	1.00	16:46				X	X		X	X				X						X	X					
STANDARD 2	1.00	16:49				X	X		X	X				X						X	X					
STANDARD 3	1.00	16:52				X	X		X	X				X						X	X					
STANDARD 4	1.00	16:56				X	X		X	X				X						X	X					
STANDARD 5	1.00	16:59				X	X		X	X				X						X	X					
ICV1	1.00	17:02				X	X		X	X				X						X	X					
ICB1	1.00	17:06				X	X		X	X				X						X	X					
CRDL1	1.00	17:09				X	X		X	X				X						X	X					
ICS-A1	1.00	17:12				X	X		X	X				X						X	X					
ICS-AB1	1.00	17:16				X	X		X	X				X						X	X					
CCV1	1.00	17:19				X	X		X	X				X						X	X					
CCB1	1.00	17:23				X	X		X	X				X						X	X					
PBS	1.00	17:26				X	X		X	X				X						X	X					
LCSS	1.00	17:29				X	X		X	X				X						X	X					
TP-01 (3.0-4.0)	1.00	17:33				X	X		X	X				X						X	X					
TP-02 (4.0)	1.00	17:36				X	X		X	X				X						X	X					
TP-02 (10.0)	1.00	17:39				X	X		X	X				X						X	X					
TP-02 (10.0)S	1.00	17:43				X	X		X	X				X						X	X					
TP-02 (10.0)SD	1.00	17:46				X	X		X	X				X						X	X					
ZZZZZZ	1.00	17:49																								
TP-02 (10.0)L	5.00	17:53				X	X		X	X				X						X	X					
TP-05 (6.0)	1.00	17:56				X	X		X	X				X						X	X					
CCV2	1.00	17:59				X	X		X	X				X						X	X					
CCB2	1.00	18:03				X	X		X	X				X						X	X					
TP-06 (5.5)	1.00	18:06				X	X		X	X				X						X	X					
TP-06 (9.0)	1.00	18:09				X	X		X	X				X						X	X					
TP-07 (4.0)	1.00	18:13				X	X		X	X				X						X	X					
TP-08 (5.5)	1.00	18:16				X	X		X	X				X						X	X					
TP-09 (7.0)	1.00	18:19				X	X		X	X				X						X	X					
TP-10 (5.0)	1.00	18:23				X	X		X	X				X						X	X					
TP-12 (5.0)	1.00	18:26				X	X		X	X				X						X	X					
TP-13 (1.0-2.0)	1.00	18:30				X	X		X	X				X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4)

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/23/2018 End Date: 2/23/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
TP-13 (7.0)	1.00	18:33				X	X		X	X				X					X	X						
TP-14 (3.5)	1.00	18:36				X	X		X	X				X					X	X						
CCV3	1.00	18:40				X	X		X	X				X					X	X						
CCB3	1.00	18:43				X	X		X	X				X					X	X						
TP-17 (4.0)	1.00	18:46				X	X		X	X				X					X	X						
TP-19 (3.0-4.0)	1.00	18:50				X	X		X	X				X					X	X						
TP-20 (9.0)	1.00	18:53				X	X		X	X				X					X	X						
TP-22 (4.0-5.0)	1.00	18:56				X	X		X	X				X					X	X						
CCV4	1.00	19:00				X	X		X	X				X					X	X						
CCB4	1.00	19:03				X	X		X	X				X					X	X						
CRDL2	1.00	19:06				X	X		X	X				X					X	X						
ICS-A2	1.00	19:10				X	X		X	X				X					X	X						
ICS-AB2	1.00	19:13				X	X		X	X				X					X	X						
ZZZZZ	1.00	19:16																								
ZZZZZ	1.00	19:20																								
ZZZZZ	1.00	19:23																								
CCV5	1.00	19:26				X	X		X	X				X					X	X						
CCB5	1.00	19:30				X	X		X	X				X					X	X						

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METALS

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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 2/22/2018 End Date: 2/22/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
Calib Blank	1.00	01:04																X									
0.2ppb std	1.00	01:06																X									
0.5ppb std	1.00	01:07																X									
1.0ppb std	1.00	01:09																X									
2.0ppb std	1.00	01:11																X									
5.0ppb std	1.00	01:12																X									
10.0ppb std	1.00	01:14																X									
ICV1	1.00	01:16																X									
ICB1	1.00	01:17																X									
CRDL1	1.00	01:19																X									
CCV1	1.00	01:20																X									
CCB1	1.00	01:22																X									
PBS	1.00	01:24																X									
LCSS	1.00	01:25																X									
TP-01 (3.0-4.0)	1.00	01:27																X									
TP-02 (4.0)	1.00	01:29																									
TP-02 (10.0)	1.00	01:30																X									
TP-02 (10.0)S	1.00	01:32																X									
TP-02 (10.0)SD	1.00	01:33																X									
CCV2	1.00	01:35																X									
CCB2	1.00	01:37																X									
TP-02 (4.0)	10.00	01:38																X									
TP-05 (6.0)	1.00	01:40																X									
TP-06 (5.5)	1.00	01:42																X									
TP-06 (9.0)	1.00	01:43																X									
TP-07 (4.0)	1.00	01:45																X									
TP-08 (5.5)	1.00	01:47																X									
TP-09 (7.0)	1.00	01:48																X									
TP-10 (5.0)	1.00	01:50																X									
TP-12 (5.0)	1.00	01:52																X									
CCV3	1.00	01:53																X									
CCB3	1.00	01:55																X									
TP-13 (1.0-2.0)	1.00	01:56																X									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 2/22/2018 End Date: 2/22/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
TP-13 (7.0)	1.00	01:58															X										
TP-14 (3.5)	1.00	02:00																									
TP-17 (4.0)	1.00	02:01															X										
TP-14 (3.5)	5.00	02:03															X										
TP-19 (3.0-4.0)	1.00	02:05															X										
TP-20 (9.0)	1.00	02:06															X										
TP-22 (4.0-5.0)	1.00	02:08															X										
CRDL2	1.00	02:10															X										
CCV4	1.00	02:11															X										
CCB4	1.00	02:13															X										

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14





## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** Method Blank  
**Lab Code:** R1801453-MB

**Service Request:** R1801453  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** Dry

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cyanide, Total	9012B	0.30 U	mg/Kg	0.30	0.02	1	02/27/18 15:05	02/26/18	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 02/27/18  
**Date Extracted:** 02/26/18

**Duplicate Matrix Spike Summary**  
**Cyanide, Total**

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004  
**Analysis Method:** 9012B  
**Prep Method:** Method

**Units:** mg/Kg  
**Basis:** Dry

Analyte Name	Sample Result	Result	Matrix Spike R1801453-004MS		Duplicate Matrix Spike R1801453-004DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Cyanide, Total	0.13 J	3.38	3.37	97	2.74	2.75	95	10-159	21	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 02/22/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1801453-004DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	-	84.5	84.5	84.5	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/27/18

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R1801453-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Cyanide, Total	9012B	3.02	3.00	101	85-115

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Analyzed:** 02/27/18

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R1801453-LCS2

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Cyanide, Total	9012B	18.2	18.0	101	85-115

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Continuing Calibration Blank (CCB) Summary**  
**Cyanide, Total**

**Analysis Method:** 9012B

**Units:**mg/Kg

	<b>Analysis Lot</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>MRL</b>	<b>MDL</b>	<b>Result</b>	<b>Q</b>
CCB1	581818	RQ1801784-02	02/27/18 14:58	0.30	0.02	0.30	U
CCB2	581818	RQ1801784-04	02/27/18 15:08	0.30	0.02	0.30	U
CCB3	581818	RQ1801784-05	02/27/18 15:18	0.30	0.02	0.30	U
CCB4	581818	RQ1801784-08	02/27/18 15:15	0.30	0.02	0.30	U

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453

### Continuing Calibration Verification (CCV) Summary

#### Cyanide, Total

**Analysis Method:** 9012B

**Units:** mg/L

	<b>Analysis Lot</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>True Value</b>	<b>Measured Value</b>	<b>Percent Recovery</b>	<b>Acceptance Limits</b>
CCV1	581818	RQ1801784-01	02/27/18 14:58	0.500	0.491	98	85-115
CCV2	581818	RQ1801784-03	02/27/18 15:07	0.500	0.491	98	85-115
CCV3	581818	RQ1801784-06	02/27/18 15:17	0.500	0.493	99	85-115
CCV4	581818	RQ1801784-07	02/27/18 15:14	0.500	0.492	98	85-115





## Raw Data

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## Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.0 U	4.0	0.59	.67	02/22/18 22:02	
1,1,2,2-Tetrachloroethane	4.0 U	4.0	0.66	.67	02/22/18 22:02	
1,1,2-Trichloroethane	4.0 U	4.0	0.59	.67	02/22/18 22:02	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0 U	4.0	1.1	.67	02/22/18 22:02	
1,1-Dichloroethane (1,1-DCA)	4.0 U	4.0	1.1	.67	02/22/18 22:02	
1,1-Dichloroethene (1,1-DCE)	4.0 U	4.0	1.1	.67	02/22/18 22:02	
1,2,3-Trichlorobenzene	4.0 U	4.0	0.51	.67	02/22/18 22:02	
1,2,4-Trichlorobenzene	4.0 U	4.0	0.48	.67	02/22/18 22:02	
1,2,4-Trimethylbenzene	4.0 U	4.0	0.44	.67	02/22/18 22:02	
1,2-Dibromo-3-chloropropane (DBCP)	4.0 U	4.0	1.6	.67	02/22/18 22:02	
1,2-Dibromoethane	4.0 U	4.0	0.98	.67	02/22/18 22:02	
1,2-Dichlorobenzene	4.0 U	4.0	0.50	.67	02/22/18 22:02	
1,2-Dichloroethane	4.0 U	4.0	0.50	.67	02/22/18 22:02	
1,2-Dichloropropane	4.0 U	4.0	0.79	.67	02/22/18 22:02	
1,3,5-Trimethylbenzene	4.0 U	4.0	0.64	.67	02/22/18 22:02	
1,3-Dichlorobenzene	4.0 U	4.0	0.51	.67	02/22/18 22:02	
1,4-Dichlorobenzene	4.0 U	4.0	0.46	.67	02/22/18 22:02	
1,4-Dioxane	81 U	81	16	.67	02/22/18 22:02	
2-Butanone (MEK)	<b>12</b>	4.0	1.9	.67	02/22/18 22:02	
2-Hexanone	4.0 U	4.0	0.98	.67	02/22/18 22:02	
4-Isopropyltoluene	4.0 U	4.0	0.71	.67	02/22/18 22:02	
4-Methyl-2-pentanone	4.0 U	4.0	0.80	.67	02/22/18 22:02	
Acetone	<b>42 B</b>	4.0	2.3	.67	02/22/18 22:02	
Benzene	4.0 U	4.0	0.24	.67	02/22/18 22:02	
Bromochloromethane	4.0 U	4.0	1.1	.67	02/22/18 22:02	
Bromodichloromethane	4.0 U	4.0	0.50	.67	02/22/18 22:02	
Bromoform	4.0 U	4.0	0.76	.67	02/22/18 22:02	
Bromomethane	4.0 U	4.0	1.2	.67	02/22/18 22:02	
Carbon Disulfide	4.0 U	4.0	1.1	.67	02/22/18 22:02	
Carbon Tetrachloride	4.0 U	4.0	0.75	.67	02/22/18 22:02	
Chlorobenzene	4.0 U	4.0	0.24	.67	02/22/18 22:02	
Chloroethane	4.0 U	4.0	2.4	.67	02/22/18 22:02	
Chloroform	4.0 U	4.0	1.1	.67	02/22/18 22:02	
Chloromethane	4.0 U	4.0	0.33	.67	02/22/18 22:02	
Cyclohexane	4.0 U	4.0	1.2	.67	02/22/18 22:02	
Dibromochloromethane	4.0 U	4.0	0.59	.67	02/22/18 22:02	
Dichlorodifluoromethane (CFC 12)	4.0 U	4.0	1.6	.67	02/22/18 22:02	
Dichloromethane	4.0 U	4.0	0.47	.67	02/22/18 22:02	
Ethylbenzene	4.0 U	4.0	0.19	.67	02/22/18 22:02	
Isopropylbenzene (Cumene)	4.0 U	4.0	0.55	.67	02/22/18 22:02	
Methyl Acetate	4.0 U	4.0	1.5	.67	02/22/18 22:02	
Methyl tert-Butyl Ether	4.0 U	4.0	0.76	.67	02/22/18 22:02	
Methylcyclohexane	4.0 U	4.0	0.97	.67	02/22/18 22:02	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.0 U	4.0	0.25	.67	02/22/18 22:02	
Tetrachloroethene (PCE)	4.0 U	4.0	0.72	.67	02/22/18 22:02	
Toluene	4.0 U	4.0	0.81	.67	02/22/18 22:02	
Trichloroethene (TCE)	4.0 U	4.0	0.82	.67	02/22/18 22:02	
Trichlorofluoromethane (CFC 11)	4.0 U	4.0	0.54	.67	02/22/18 22:02	
Vinyl Chloride	4.0 U	4.0	1.5	.67	02/22/18 22:02	
cis-1,2-Dichloroethene	4.0 U	4.0	0.77	.67	02/22/18 22:02	
cis-1,3-Dichloropropene	4.0 U	4.0	0.73	.67	02/22/18 22:02	
m,p-Xylenes	8.1 U	8.1	0.89	.67	02/22/18 22:02	
n-Butylbenzene	4.0 U	4.0	0.80	.67	02/22/18 22:02	
n-Propylbenzene	4.0 U	4.0	0.64	.67	02/22/18 22:02	
o-Xylene	4.0 U	4.0	0.39	.67	02/22/18 22:02	
sec-Butylbenzene	4.0 U	4.0	0.59	.67	02/22/18 22:02	
tert-Butylbenzene	4.0 U	4.0	0.47	.67	02/22/18 22:02	
trans-1,2-Dichloroethene	4.0 U	4.0	0.70	.67	02/22/18 22:02	
trans-1,3-Dichloropropene	4.0 U	4.0	0.17	.67	02/22/18 22:02	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	82	51 - 136	02/22/18 22:02	
Dibromofluoromethane	98	63 - 138	02/22/18 22:02	
Toluene-d8	99	66 - 138	02/22/18 22:02	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	3.9 U	3.9	0.57	.69	02/22/18 22:26	
1,1,2,2-Tetrachloroethane	3.9 U	3.9	0.64	.69	02/22/18 22:26	
1,1,2-Trichloroethane	3.9 U	3.9	0.57	.69	02/22/18 22:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	3.9 U	3.9	0.97	.69	02/22/18 22:26	
1,1-Dichloroethane (1,1-DCA)	3.9 U	3.9	0.98	.69	02/22/18 22:26	
1,1-Dichloroethene (1,1-DCE)	3.9 U	3.9	1.0	.69	02/22/18 22:26	
1,2,3-Trichlorobenzene	3.9 U	3.9	0.49	.69	02/22/18 22:26	
1,2,4-Trichlorobenzene	3.9 U	3.9	0.46	.69	02/22/18 22:26	
1,2,4-Trimethylbenzene	<b>1.3 J</b>	3.9	0.43	.69	02/22/18 22:26	
1,2-Dibromo-3-chloropropane (DBCP)	3.9 U	3.9	1.5	.69	02/22/18 22:26	
1,2-Dibromoethane	3.9 U	3.9	0.95	.69	02/22/18 22:26	
1,2-Dichlorobenzene	3.9 U	3.9	0.48	.69	02/22/18 22:26	
1,2-Dichloroethane	3.9 U	3.9	0.48	.69	02/22/18 22:26	
1,2-Dichloropropane	3.9 U	3.9	0.76	.69	02/22/18 22:26	
1,3,5-Trimethylbenzene	<b>0.63 J</b>	3.9	0.62	.69	02/22/18 22:26	
1,3-Dichlorobenzene	3.9 U	3.9	0.50	.69	02/22/18 22:26	
1,4-Dichlorobenzene	3.9 U	3.9	0.44	.69	02/22/18 22:26	
1,4-Dioxane	78 U	78	15	.69	02/22/18 22:26	
2-Butanone (MEK)	<b>7.1</b>	3.9	1.8	.69	02/22/18 22:26	
2-Hexanone	3.9 U	3.9	0.95	.69	02/22/18 22:26	
4-Isopropyltoluene	3.9 U	3.9	0.68	.69	02/22/18 22:26	
4-Methyl-2-pentanone	3.9 U	3.9	0.77	.69	02/22/18 22:26	
Acetone	<b>33 B</b>	3.9	2.2	.69	02/22/18 22:26	
Benzene	<b>3.4 J</b>	3.9	0.23	.69	02/22/18 22:26	
Bromochloromethane	3.9 U	3.9	1.1	.69	02/22/18 22:26	
Bromodichloromethane	3.9 U	3.9	0.48	.69	02/22/18 22:26	
Bromoform	3.9 U	3.9	0.73	.69	02/22/18 22:26	
Bromomethane	3.9 U	3.9	1.1	.69	02/22/18 22:26	
Carbon Disulfide	<b>1.5 J</b>	3.9	0.97	.69	02/22/18 22:26	
Carbon Tetrachloride	3.9 U	3.9	0.72	.69	02/22/18 22:26	
Chlorobenzene	3.9 U	3.9	0.23	.69	02/22/18 22:26	
Chloroethane	3.9 U	3.9	2.3	.69	02/22/18 22:26	
Chloroform	3.9 U	3.9	0.99	.69	02/22/18 22:26	
Chloromethane	3.9 U	3.9	0.32	.69	02/22/18 22:26	
Cyclohexane	3.9 U	3.9	1.1	.69	02/22/18 22:26	
Dibromochloromethane	3.9 U	3.9	0.57	.69	02/22/18 22:26	
Dichlorodifluoromethane (CFC 12)	3.9 U	3.9	1.5	.69	02/22/18 22:26	
Dichloromethane	<b>0.61 J</b>	3.9	0.45	.69	02/22/18 22:26	
Ethylbenzene	<b>3.0 J</b>	3.9	0.18	.69	02/22/18 22:26	
Isopropylbenzene (Cumene)	<b>0.67 J</b>	3.9	0.53	.69	02/22/18 22:26	
Methyl Acetate	3.9 U	3.9	1.4	.69	02/22/18 22:26	
Methyl tert-Butyl Ether	3.9 U	3.9	0.74	.69	02/22/18 22:26	
Methylcyclohexane	3.9 U	3.9	0.94	.69	02/22/18 22:26	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	<b>2.5 J</b>	3.9	0.24	.69	02/22/18 22:26	
Tetrachloroethene (PCE)	3.9 U	3.9	0.69	.69	02/22/18 22:26	
Toluene	3.9 U	3.9	0.78	.69	02/22/18 22:26	
Trichloroethene (TCE)	<b>1.2 J</b>	3.9	0.79	.69	02/22/18 22:26	
Trichlorofluoromethane (CFC 11)	<b>0.59 J</b>	3.9	0.52	.69	02/22/18 22:26	
Vinyl Chloride	3.9 U	3.9	1.5	.69	02/22/18 22:26	
cis-1,2-Dichloroethene	3.9 U	3.9	0.74	.69	02/22/18 22:26	
cis-1,3-Dichloropropene	3.9 U	3.9	0.71	.69	02/22/18 22:26	
m,p-Xylenes	<b>2.0 J</b>	7.8	0.85	.69	02/22/18 22:26	
n-Butylbenzene	3.9 U	3.9	0.77	.69	02/22/18 22:26	
n-Propylbenzene	3.9 U	3.9	0.61	.69	02/22/18 22:26	
o-Xylene	<b>1.2 J</b>	3.9	0.38	.69	02/22/18 22:26	
sec-Butylbenzene	3.9 U	3.9	0.57	.69	02/22/18 22:26	
tert-Butylbenzene	3.9 U	3.9	0.46	.69	02/22/18 22:26	
trans-1,2-Dichloroethene	3.9 U	3.9	0.67	.69	02/22/18 22:26	
trans-1,3-Dichloropropene	3.9 U	3.9	0.16	.69	02/22/18 22:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	51 - 136	02/22/18 22:26	
Dibromofluoromethane	99	63 - 138	02/22/18 22:26	
Toluene-d8	101	66 - 138	02/22/18 22:26	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.1 U	6.1	0.89	1.01	02/22/18 22:49	
1,1,2,2-Tetrachloroethane	6.1 U	6.1	0.99	1.01	02/22/18 22:49	
1,1,2-Trichloroethane	6.1 U	6.1	0.89	1.01	02/22/18 22:49	
1,1,2-Trichloro-1,2,2-trifluoroethane	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
1,1-Dichloroethane (1,1-DCA)	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
1,1-Dichloroethene (1,1-DCE)	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
1,2,3-Trichlorobenzene	6.1 U	6.1	0.76	1.01	02/22/18 22:49	
1,2,4-Trichlorobenzene	6.1 U	6.1	0.72	1.01	02/22/18 22:49	
1,2,4-Trimethylbenzene	6.1 U	6.1	0.66	1.01	02/22/18 22:49	
1,2-Dibromo-3-chloropropane (DBCP)	6.1 U	6.1	2.3	1.01	02/22/18 22:49	
1,2-Dibromoethane	6.1 U	6.1	1.5	1.01	02/22/18 22:49	
1,2-Dichlorobenzene	6.1 U	6.1	0.74	1.01	02/22/18 22:49	
1,2-Dichloroethane	6.1 U	6.1	0.74	1.01	02/22/18 22:49	
1,2-Dichloropropane	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
1,3,5-Trimethylbenzene	6.1 U	6.1	0.96	1.01	02/22/18 22:49	
1,3-Dichlorobenzene	6.1 U	6.1	0.77	1.01	02/22/18 22:49	
1,4-Dichlorobenzene	6.1 U	6.1	0.68	1.01	02/22/18 22:49	
1,4-Dioxane	120 U	120	24	1.01	02/22/18 22:49	
2-Butanone (MEK)	6.1 U	6.1	2.8	1.01	02/22/18 22:49	
2-Hexanone	6.1 U	6.1	1.5	1.01	02/22/18 22:49	
4-Isopropyltoluene	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
4-Methyl-2-pentanone	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Acetone	<b>4.3 BJ</b>	6.1	3.5	1.01	02/22/18 22:49	
Benzene	6.1 U	6.1	0.36	1.01	02/22/18 22:49	
Bromochloromethane	6.1 U	6.1	1.7	1.01	02/22/18 22:49	
Bromodichloromethane	6.1 U	6.1	0.74	1.01	02/22/18 22:49	
Bromoform	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Bromomethane	6.1 U	6.1	1.7	1.01	02/22/18 22:49	
Carbon Disulfide	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
Carbon Tetrachloride	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Chlorobenzene	6.1 U	6.1	0.36	1.01	02/22/18 22:49	
Chloroethane	6.1 U	6.1	3.5	1.01	02/22/18 22:49	
Chloroform	6.1 U	6.1	1.6	1.01	02/22/18 22:49	
Chloromethane	6.1 U	6.1	0.49	1.01	02/22/18 22:49	
Cyclohexane	6.1 U	6.1	1.7	1.01	02/22/18 22:49	
Dibromochloromethane	6.1 U	6.1	0.89	1.01	02/22/18 22:49	
Dichlorodifluoromethane (CFC 12)	6.1 U	6.1	2.3	1.01	02/22/18 22:49	
Dichloromethane	<b>0.74 J</b>	6.1	0.70	1.01	02/22/18 22:49	
Ethylbenzene	6.1 U	6.1	0.28	1.01	02/22/18 22:49	
Isopropylbenzene (Cumene)	6.1 U	6.1	0.82	1.01	02/22/18 22:49	
Methyl Acetate	6.1 U	6.1	2.2	1.01	02/22/18 22:49	
Methyl tert-Butyl Ether	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
Methylcyclohexane	6.1 U	6.1	1.5	1.01	02/22/18 22:49	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	6.1 U	6.1	0.37	1.01	02/22/18 22:49	
Tetrachloroethene (PCE)	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
Toluene	6.1 U	6.1	1.3	1.01	02/22/18 22:49	
Trichloroethene (TCE)	6.1 U	6.1	1.3	1.01	02/22/18 22:49	
Trichlorofluoromethane (CFC 11)	6.1 U	6.1	0.81	1.01	02/22/18 22:49	
Vinyl Chloride	6.1 U	6.1	2.3	1.01	02/22/18 22:49	
cis-1,2-Dichloroethene	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
cis-1,3-Dichloropropene	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
m,p-Xylenes	12 U	12	1.4	1.01	02/22/18 22:49	
n-Butylbenzene	6.1 U	6.1	1.2	1.01	02/22/18 22:49	
n-Propylbenzene	6.1 U	6.1	0.95	1.01	02/22/18 22:49	
o-Xylene	6.1 U	6.1	0.59	1.01	02/22/18 22:49	
sec-Butylbenzene	6.1 U	6.1	0.88	1.01	02/22/18 22:49	
tert-Butylbenzene	6.1 U	6.1	0.71	1.01	02/22/18 22:49	
trans-1,2-Dichloroethene	6.1 U	6.1	1.1	1.01	02/22/18 22:49	
trans-1,3-Dichloropropene	6.1 U	6.1	0.25	1.01	02/22/18 22:49	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	68	51 - 136	02/22/18 22:49	
Dibromofluoromethane	97	63 - 138	02/22/18 22:49	
Toluene-d8	97	66 - 138	02/22/18 22:49	



ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.6 U	4.6	0.67	.74	02/22/18 23:11	
1,1,2,2-Tetrachloroethane	4.6 U	4.6	0.74	.74	02/22/18 23:11	
1,1,2-Trichloroethane	4.6 U	4.6	0.67	.74	02/22/18 23:11	
1,1,2-Trichloro-1,2,2-trifluoroethane	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,1-Dichloroethane (1,1-DCA)	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,1-Dichloroethene (1,1-DCE)	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,2,3-Trichlorobenzene	4.6 U	4.6	0.57	.74	02/22/18 23:11	
1,2,4-Trichlorobenzene	4.6 U	4.6	0.54	.74	02/22/18 23:11	
1,2,4-Trimethylbenzene	<b>6.5</b>	4.6	0.50	.74	02/22/18 23:11	
1,2-Dibromo-3-chloropropane (DBCP)	4.6 U	4.6	1.8	.74	02/22/18 23:11	
1,2-Dibromoethane	4.6 U	4.6	1.2	.74	02/22/18 23:11	
1,2-Dichlorobenzene	4.6 U	4.6	0.56	.74	02/22/18 23:11	
1,2-Dichloroethane	4.6 U	4.6	0.56	.74	02/22/18 23:11	
1,2-Dichloropropane	4.6 U	4.6	0.89	.74	02/22/18 23:11	
1,3,5-Trimethylbenzene	<b>2.1 J</b>	4.6	0.73	.74	02/22/18 23:11	
1,3-Dichlorobenzene	4.6 U	4.6	0.58	.74	02/22/18 23:11	
1,4-Dichlorobenzene	4.6 U	4.6	0.52	.74	02/22/18 23:11	
1,4-Dioxane	91 U	91	18	.74	02/22/18 23:11	
2-Butanone (MEK)	4.6 U	4.6	2.1	.74	02/22/18 23:11	
2-Hexanone	4.6 U	4.6	1.2	.74	02/22/18 23:11	
4-Isopropyltoluene	4.6 U	4.6	0.80	.74	02/22/18 23:11	
4-Methyl-2-pentanone	4.6 U	4.6	0.90	.74	02/22/18 23:11	
Acetone	<b>22 B</b>	4.6	2.6	.74	02/22/18 23:11	
Benzene	4.6 U	4.6	0.27	.74	02/22/18 23:11	
Bromochloromethane	4.6 U	4.6	1.3	.74	02/22/18 23:11	
Bromodichloromethane	4.6 U	4.6	0.56	.74	02/22/18 23:11	
Bromoform	4.6 U	4.6	0.85	.74	02/22/18 23:11	
Bromomethane	4.6 U	4.6	1.3	.74	02/22/18 23:11	
Carbon Disulfide	4.6 U	4.6	1.2	.74	02/22/18 23:11	
Carbon Tetrachloride	4.6 U	4.6	0.84	.74	02/22/18 23:11	
Chlorobenzene	4.6 U	4.6	0.27	.74	02/22/18 23:11	
Chloroethane	4.6 U	4.6	2.7	.74	02/22/18 23:11	
Chloroform	4.6 U	4.6	1.2	.74	02/22/18 23:11	
Chloromethane	4.6 U	4.6	0.37	.74	02/22/18 23:11	
Cyclohexane	4.6 U	4.6	1.3	.74	02/22/18 23:11	
Dibromochloromethane	4.6 U	4.6	0.67	.74	02/22/18 23:11	
Dichlorodifluoromethane (CFC 12)	4.6 U	4.6	1.8	.74	02/22/18 23:11	
Dichloromethane	4.6 U	4.6	0.53	.74	02/22/18 23:11	
Ethylbenzene	<b>0.38 J</b>	4.6	0.21	.74	02/22/18 23:11	
Isopropylbenzene (Cumene)	4.6 U	4.6	0.62	.74	02/22/18 23:11	
Methyl Acetate	4.6 U	4.6	1.6	.74	02/22/18 23:11	
Methyl tert-Butyl Ether	4.6 U	4.6	0.86	.74	02/22/18 23:11	
Methylcyclohexane	4.6 U	4.6	1.1	.74	02/22/18 23:11	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	4.6 U	4.6	0.28	.74	02/22/18 23:11	
Tetrachloroethene (PCE)	4.6 U	4.6	0.81	.74	02/22/18 23:11	
Toluene	4.6 U	4.6	0.92	.74	02/22/18 23:11	
Trichloroethene (TCE)	4.6 U	4.6	0.93	.74	02/22/18 23:11	
Trichlorofluoromethane (CFC 11)	4.6 U	4.6	0.61	.74	02/22/18 23:11	
Vinyl Chloride	4.6 U	4.6	1.7	.74	02/22/18 23:11	
cis-1,2-Dichloroethene	4.6 U	4.6	0.87	.74	02/22/18 23:11	
cis-1,3-Dichloropropene	4.6 U	4.6	0.83	.74	02/22/18 23:11	
m,p-Xylenes	<b>1.8 J</b>	9.1	1.0	.74	02/22/18 23:11	
n-Butylbenzene	4.6 U	4.6	0.90	.74	02/22/18 23:11	
n-Propylbenzene	4.6 U	4.6	0.72	.74	02/22/18 23:11	
o-Xylene	<b>1.0 J</b>	4.6	0.44	.74	02/22/18 23:11	
sec-Butylbenzene	4.6 U	4.6	0.66	.74	02/22/18 23:11	
tert-Butylbenzene	4.6 U	4.6	0.53	.74	02/22/18 23:11	
trans-1,2-Dichloroethene	4.6 U	4.6	0.79	.74	02/22/18 23:11	
trans-1,3-Dichloropropene	4.6 U	4.6	0.19	.74	02/22/18 23:11	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	51 - 136	02/22/18 23:11	
Dibromofluoromethane	96	63 - 138	02/22/18 23:11	
Toluene-d8	98	66 - 138	02/22/18 23:11	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	5.2 U	5.2	0.76	.84	02/22/18 23:34	
1,1,2,2-Tetrachloroethane	5.2 U	5.2	0.84	.84	02/22/18 23:34	
1,1,2-Trichloroethane	5.2 U	5.2	0.76	.84	02/22/18 23:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.2 U	5.2	1.3	.84	02/22/18 23:34	
1,1-Dichloroethane (1,1-DCA)	5.2 U	5.2	1.3	.84	02/22/18 23:34	
1,1-Dichloroethene (1,1-DCE)	5.2 U	5.2	1.4	.84	02/22/18 23:34	
1,2,3-Trichlorobenzene	5.2 U	5.2	0.65	.84	02/22/18 23:34	
1,2,4-Trichlorobenzene	5.2 U	5.2	0.62	.84	02/22/18 23:34	
1,2,4-Trimethylbenzene	<b>880 E</b>	5.2	0.56	.84	02/22/18 23:34	
1,2-Dibromo-3-chloropropane (DBCP)	5.2 U	5.2	2.0	.84	02/22/18 23:34	
1,2-Dibromoethane	5.2 U	5.2	1.3	.84	02/22/18 23:34	
1,2-Dichlorobenzene	5.2 U	5.2	0.64	.84	02/22/18 23:34	
1,2-Dichloroethane	5.2 U	5.2	0.64	.84	02/22/18 23:34	
1,2-Dichloropropane	5.2 U	5.2	1.1	.84	02/22/18 23:34	
1,3,5-Trimethylbenzene	5.2 U	5.2	0.82	.84	02/22/18 23:34	
1,3-Dichlorobenzene	5.2 U	5.2	0.66	.84	02/22/18 23:34	
1,4-Dichlorobenzene	5.2 U	5.2	0.59	.84	02/22/18 23:34	
1,4-Dioxane	100 U	100	20	.84	02/22/18 23:34	
2-Butanone (MEK)	<b>9.1</b>	5.2	2.4	.84	02/22/18 23:34	
2-Hexanone	5.2 U	5.2	1.3	.84	02/22/18 23:34	
4-Isopropyltoluene	<b>220 E</b>	5.2	0.91	.84	02/22/18 23:34	
4-Methyl-2-pentanone	5.2 U	5.2	1.1	.84	02/22/18 23:34	
Acetone	<b>34 B</b>	5.2	3.0	.84	02/22/18 23:34	
Benzene	<b>0.57 J</b>	5.2	0.31	.84	02/22/18 23:34	
Bromochloromethane	5.2 U	5.2	1.5	.84	02/22/18 23:34	
Bromodichloromethane	5.2 U	5.2	0.64	.84	02/22/18 23:34	
Bromoform	5.2 U	5.2	0.97	.84	02/22/18 23:34	
Bromomethane	5.2 U	5.2	1.5	.84	02/22/18 23:34	
Carbon Disulfide	<b>2.1 J</b>	5.2	1.3	.84	02/22/18 23:34	
Carbon Tetrachloride	5.2 U	5.2	0.96	.84	02/22/18 23:34	
Chlorobenzene	5.2 U	5.2	0.31	.84	02/22/18 23:34	
Chloroethane	5.2 U	5.2	3.0	.84	02/22/18 23:34	
Chloroform	5.2 U	5.2	1.4	.84	02/22/18 23:34	
Chloromethane	5.2 U	5.2	0.42	.84	02/22/18 23:34	
Cyclohexane	<b>2.6 J</b>	5.2	1.5	.84	02/22/18 23:34	
Dibromochloromethane	5.2 U	5.2	0.76	.84	02/22/18 23:34	
Dichlorodifluoromethane (CFC 12)	5.2 U	5.2	2.0	.84	02/22/18 23:34	
Dichloromethane	5.2 U	5.2	0.60	.84	02/22/18 23:34	
Ethylbenzene	<b>18</b>	5.2	0.24	.84	02/22/18 23:34	
Isopropylbenzene (Cumene)	<b>63</b>	5.2	0.70	.84	02/22/18 23:34	
Methyl Acetate	5.2 U	5.2	1.9	.84	02/22/18 23:34	
Methyl tert-Butyl Ether	5.2 U	5.2	0.98	.84	02/22/18 23:34	
Methylcyclohexane	<b>23</b>	5.2	1.3	.84	02/22/18 23:34	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	5.2 U	5.2	0.32	.84	02/22/18 23:34	
Tetrachloroethene (PCE)	5.2 U	5.2	0.92	.84	02/22/18 23:34	
Toluene	<b>2.9 J</b>	5.2	1.1	.84	02/22/18 23:34	
Trichloroethene (TCE)	5.2 U	5.2	1.1	.84	02/22/18 23:34	
Trichlorofluoromethane (CFC 11)	5.2 U	5.2	0.69	.84	02/22/18 23:34	
Vinyl Chloride	5.2 U	5.2	2.0	.84	02/22/18 23:34	
cis-1,2-Dichloroethene	5.2 U	5.2	0.99	.84	02/22/18 23:34	
cis-1,3-Dichloropropene	5.2 U	5.2	0.94	.84	02/22/18 23:34	
m,p-Xylenes	<b>23</b>	10	1.2	.84	02/22/18 23:34	
n-Butylbenzene	<b>170</b>	5.2	1.1	.84	02/22/18 23:34	
n-Propylbenzene	<b>84</b>	5.2	0.81	.84	02/22/18 23:34	
o-Xylene	<b>20</b>	5.2	0.50	.84	02/22/18 23:34	
sec-Butylbenzene	<b>150</b>	5.2	0.75	.84	02/22/18 23:34	
tert-Butylbenzene	5.2 U	5.2	0.61	.84	02/22/18 23:34	
trans-1,2-Dichloroethene	5.2 U	5.2	0.90	.84	02/22/18 23:34	
trans-1,3-Dichloropropene	5.2 U	5.2	0.21	.84	02/22/18 23:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	75	51 - 136	02/22/18 23:34	
Dibromofluoromethane	99	63 - 138	02/22/18 23:34	
Toluene-d8	97	66 - 138	02/22/18 23:34	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	500 U	500	74	81.5	02/23/18 14:32	
1,1,2,2-Tetrachloroethane	500 U	500	82	81.5	02/23/18 14:32	
1,1,2-Trichloroethane	500 U	500	74	81.5	02/23/18 14:32	
1,1,2-Trichloro-1,2,2-trifluoroethane	500 U	500	130	81.5	02/23/18 14:32	
1,1-Dichloroethane (1,1-DCA)	500 U	500	130	81.5	02/23/18 14:32	
1,1-Dichloroethene (1,1-DCE)	500 U	500	130	81.5	02/23/18 14:32	
1,2,3-Trichlorobenzene	500 U	500	63	81.5	02/23/18 14:32	
1,2,4-Trichlorobenzene	500 U	500	60	81.5	02/23/18 14:32	
1,2,4-Trimethylbenzene	5000 D	500	55	81.5	02/23/18 14:32	
1,2-Dibromo-3-chloropropane (DBCP)	500 U	500	190	81.5	02/23/18 14:32	
1,2-Dibromoethane	500 U	500	130	81.5	02/23/18 14:32	
1,2-Dichlorobenzene	500 U	500	62	81.5	02/23/18 14:32	
1,2-Dichloroethane	500 U	500	62	81.5	02/23/18 14:32	
1,2-Dichloropropane	500 U	500	98	81.5	02/23/18 14:32	
1,3,5-Trimethylbenzene	240 DJ	500	80	81.5	02/23/18 14:32	
1,3-Dichlorobenzene	500 U	500	64	81.5	02/23/18 14:32	
1,4-Dichlorobenzene	500 U	500	57	81.5	02/23/18 14:32	
1,4-Dioxane	10000 U	10000	2000	81.5	02/23/18 14:32	
2-Butanone (MEK)	500 U	500	240	81.5	02/23/18 14:32	
2-Hexanone	500 U	500	130	81.5	02/23/18 14:32	
4-Isopropyltoluene	780 D	500	88	81.5	02/23/18 14:32	
4-Methyl-2-pentanone	500 U	500	99	81.5	02/23/18 14:32	
Acetone	2100 D	500	290	81.5	02/23/18 14:32	
Benzene	30 DJ	500	30	81.5	02/23/18 14:32	
Bromochloromethane	500 U	500	140	81.5	02/23/18 14:32	
Bromodichloromethane	500 U	500	62	81.5	02/23/18 14:32	
Bromoform	500 U	500	94	81.5	02/23/18 14:32	
Bromomethane	500 U	500	140	81.5	02/23/18 14:32	
Carbon Disulfide	500 U	500	130	81.5	02/23/18 14:32	
Carbon Tetrachloride	500 U	500	93	81.5	02/23/18 14:32	
Chlorobenzene	500 U	500	30	81.5	02/23/18 14:32	
Chloroethane	500 U	500	290	81.5	02/23/18 14:32	
Chloroform	500 U	500	130	81.5	02/23/18 14:32	
Chloromethane	44 DJ	500	41	81.5	02/23/18 14:32	
Cyclohexane	500 U	500	140	81.5	02/23/18 14:32	
Dibromochloromethane	500 U	500	74	81.5	02/23/18 14:32	
Dichlorodifluoromethane (CFC 12)	500 U	500	190	81.5	02/23/18 14:32	
Dichloromethane	500 U	500	58	81.5	02/23/18 14:32	
Ethylbenzene	840 D	500	24	81.5	02/23/18 14:32	
Isopropylbenzene (Cumene)	220 DJ	500	68	81.5	02/23/18 14:32	
Methyl Acetate	500 U	500	180	81.5	02/23/18 14:32	
Methyl tert-Butyl Ether	500 U	500	95	81.5	02/23/18 14:32	
Methylcyclohexane	500 U	500	130	81.5	02/23/18 14:32	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

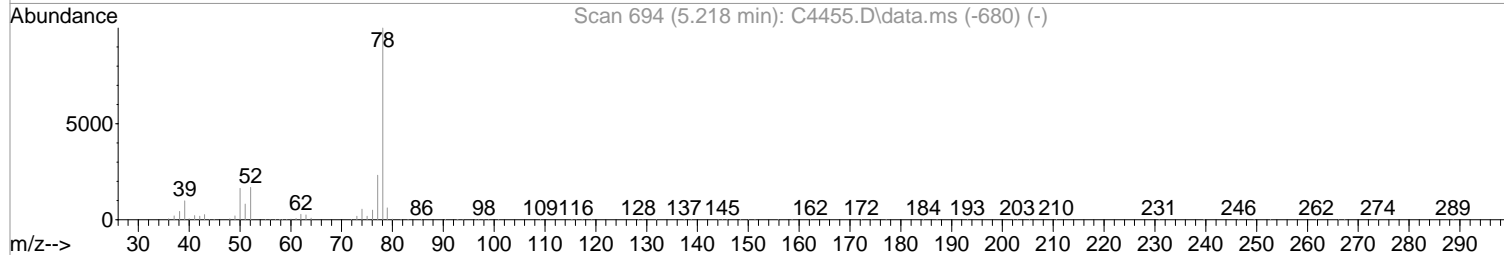
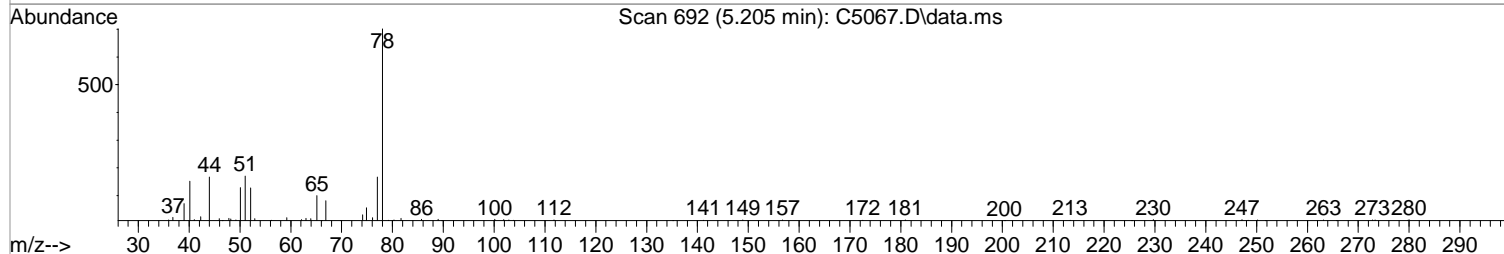
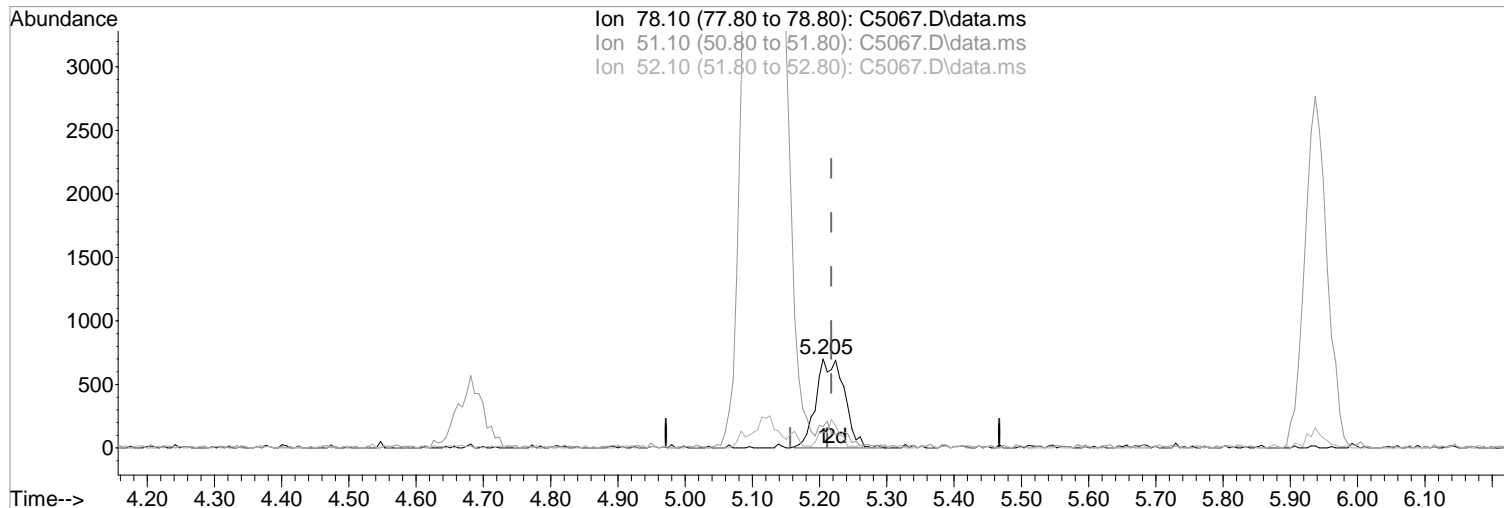
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	500 U	500	31	81.5	02/23/18 14:32	
Tetrachloroethene (PCE)	500 U	500	89	81.5	02/23/18 14:32	
Toluene	<b>380 DJ</b>	500	110	81.5	02/23/18 14:32	
Trichloroethene (TCE)	500 U	500	110	81.5	02/23/18 14:32	
Trichlorofluoromethane (CFC 11)	500 U	500	67	81.5	02/23/18 14:32	
Vinyl Chloride	500 U	500	190	81.5	02/23/18 14:32	
cis-1,2-Dichloroethene	500 U	500	96	81.5	02/23/18 14:32	
cis-1,3-Dichloropropene	500 U	500	91	81.5	02/23/18 14:32	
m,p-Xylenes	<b>2900 D</b>	1000	110	81.5	02/23/18 14:32	
n-Butylbenzene	<b>1600 D</b>	500	99	81.5	02/23/18 14:32	
n-Propylbenzene	<b>890 D</b>	500	79	81.5	02/23/18 14:32	
o-Xylene	<b>750 D</b>	500	49	81.5	02/23/18 14:32	
sec-Butylbenzene	<b>510 D</b>	500	73	81.5	02/23/18 14:32	
tert-Butylbenzene	500 U	500	59	81.5	02/23/18 14:32	
trans-1,2-Dichloroethene	500 U	500	87	81.5	02/23/18 14:32	
trans-1,3-Dichloropropene	500 U	500	21	81.5	02/23/18 14:32	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	51 - 136	02/23/18 14:32	
Dibromofluoromethane	92	63 - 138	02/23/18 14:32	
Toluene-d8	101	66 - 138	02/23/18 14:32	

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5067.D  
Acq On : 22 Feb 2018 10:02 pm  
Operator : K.Ruest  
Sample : R1801453-008|0.67  
Misc : DAY 8260 T4  
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:33:16 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(48) Benzene (P)

5.205min (-0.012) 0.24 ug/L m

response 2054

Ion	Exp%	Act%
78.10	100	100
51.10	17.40	24.22
52.10	16.90	18.09
0.00	0.00	0.00

Manual Integration:

After

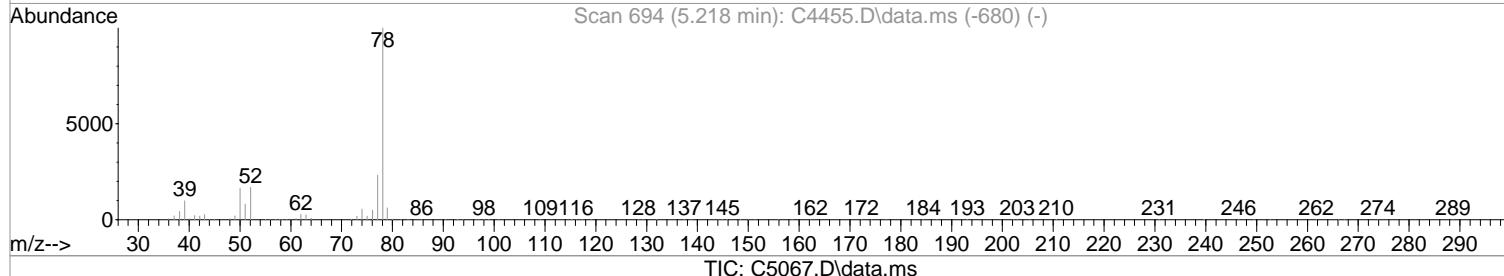
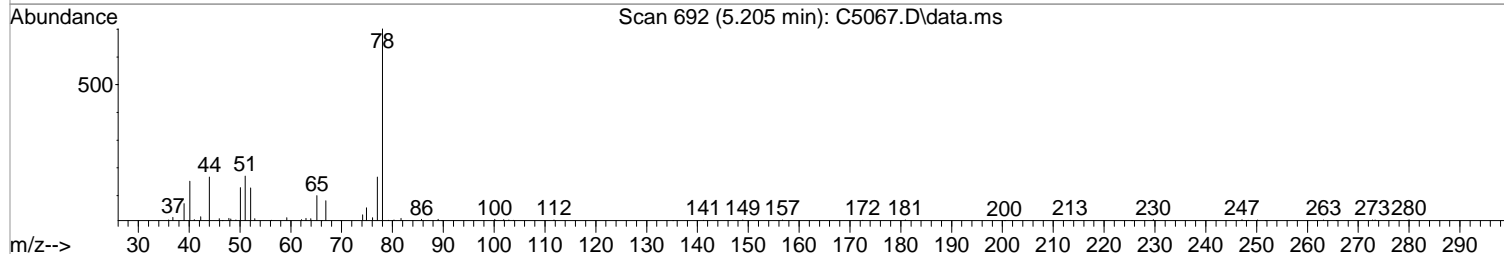
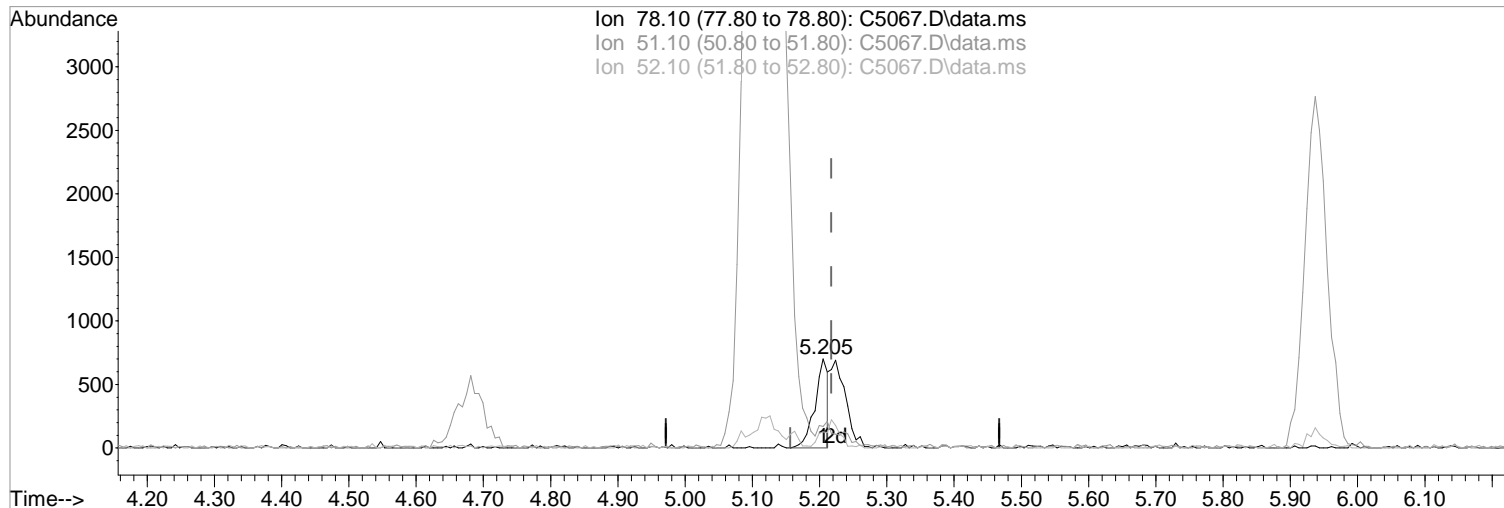
Split Peak

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5067.D  
Acq On : 22 Feb 2018 10:02 pm  
Operator : K.Ruest  
Sample : R1801453-008|0.67  
Misc : DAY 8260 T4  
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:33:16 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(48) Benzene (P)  
5.205min (-0.012) 0.11 ug/L  
response 949

Manual Integration:  
Before

Ion	Exp%	Act%
78.10	100	100
51.10	17.40	24.22
52.10	16.90	18.09
0.00	0.00	0.00

02/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5067.D  
 Acq On : 22 Feb 2018 10:02 pm  
 Operator : K.Ruest  
 Sample : R1801453-008|0.67 Inst : MSVOA14  
 Misc : DAY 8260 T4  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 23 16:09:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

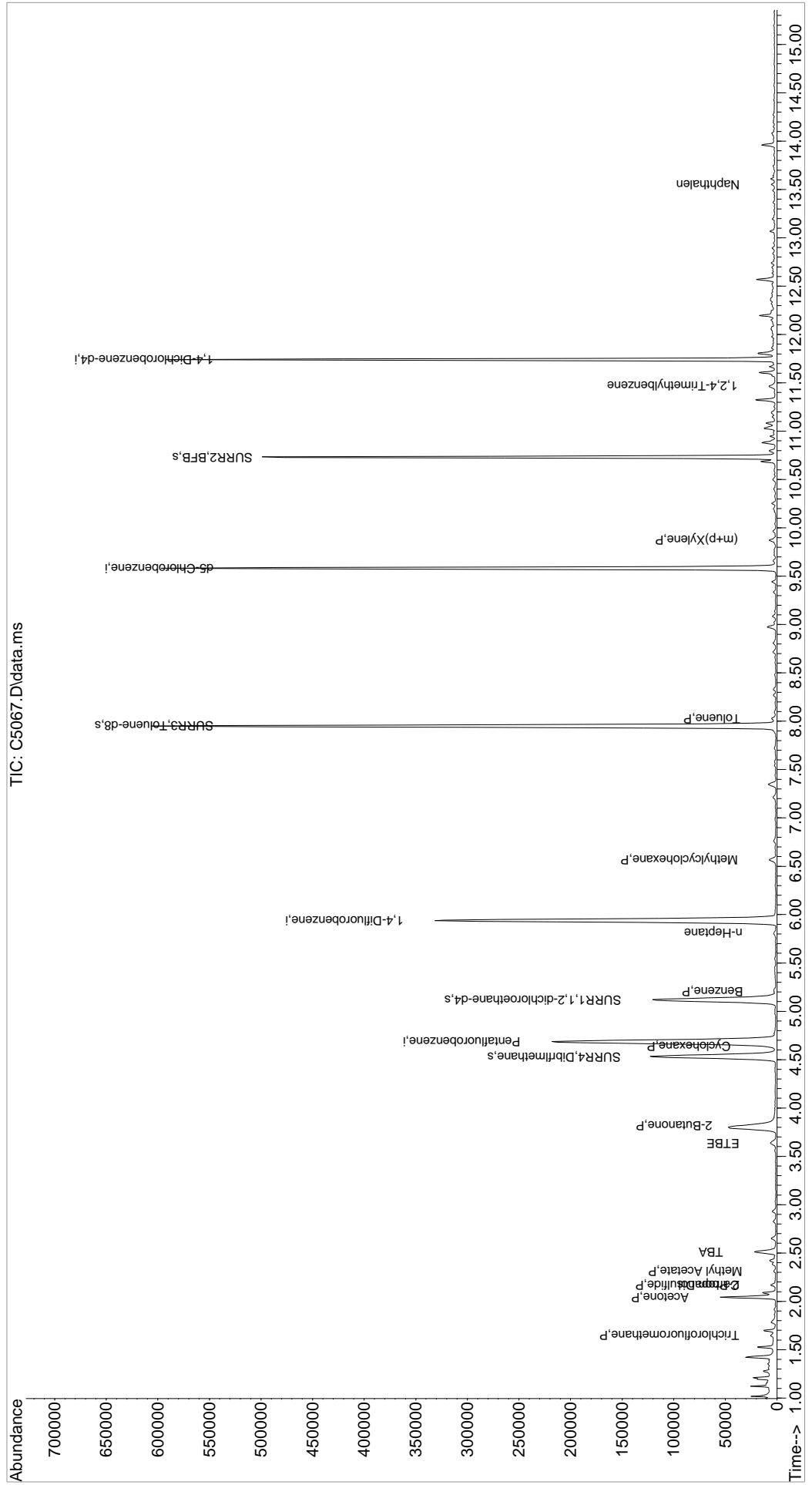
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	214075	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	321088	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	264556	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	107590	50.00	ug/L	0.00	
System Monitoring Compounds							
44) SURR4,Dibrflmethane	4.529	113	97676	48.85	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery =	97.70%			
47) SURR1,1,2-dichloroetha...	5.120	65	121093	50.56	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery =	101.12%			
64) SURR3,Toluene-d8	7.949	98	377575	49.38	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery =	98.76%			
69) SURR2,BFB	10.729	95	126850	41.12	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery =	82.24%			
Target Compounds							
							Qvalue
8) Trichlorofluoromethane	1.645	101	1194	0.41	ug/L		87
15) Acetone	2.041	43	50585	52.15	ug/L		96
16) 2-Propanol	2.169	45	3192	14.43	ug/L		78
18) Carbon Disulfide	2.169	76	2223	0.35	ug/L		97
21) Methyl Acetate	2.310	43	1905	1.03	ug/L		82
23) TBA	2.511	59	14453	36.64	ug/L		76
31) ETBE	3.633	59	3806	0.52	ug/L		97
34) 2-Butanone	3.822	43	18752	14.29	ug/L		91
43) Cyclohexane	4.638	41	1644	0.76	ug/L #		69
48) Benzene	5.205	78	2054m	0.24	ug/L		
51) n-Heptane	5.809	43	1600	0.66	ug/L #		59
54) Methylcyclohexane	6.565	55	2413	0.79	ug/L #		75
65) Toluene	8.028	91	2163	0.24	ug/L		79
80) (m+p)Xylene	9.875	106	1242	0.33	ug/L #		76
96) 1,2,4-Trimethylbenzene	11.466	105	2446	0.39	ug/L		87
107) Naphthalen	13.551	128	1629	0.24	ug/L		95

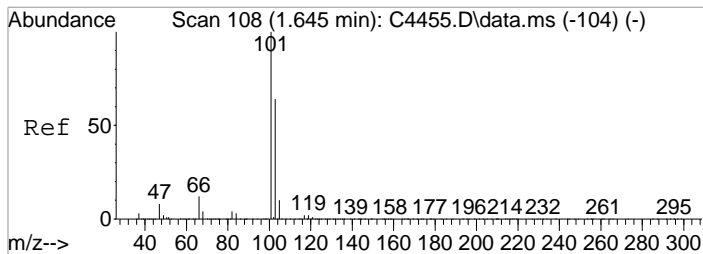
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5067.D  
 Acq On : 22 Feb 2018 10:02 pm  
 Operator : K.Ruest  
 Sample : R1801453-008|0.67  
 Misc : DAY 8260 T4  
 ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA14

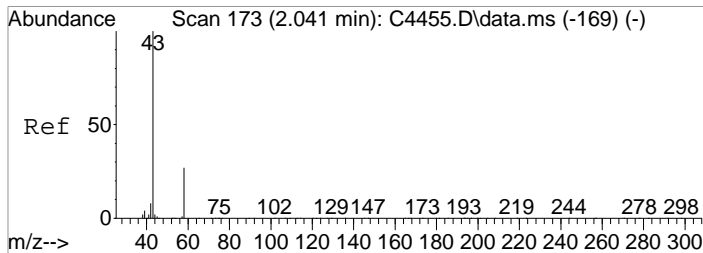
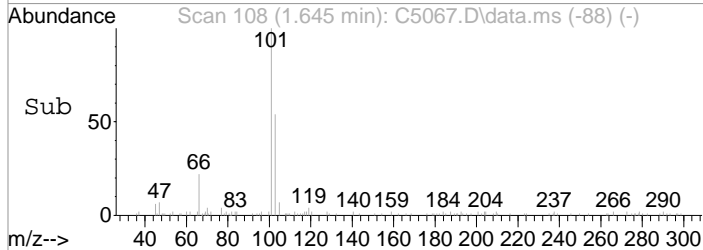
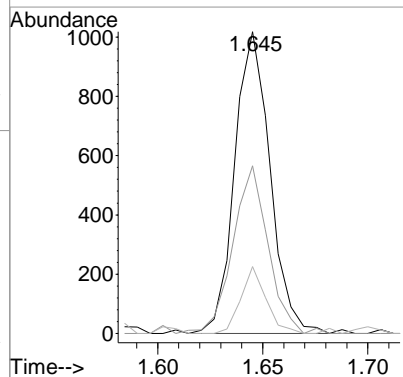
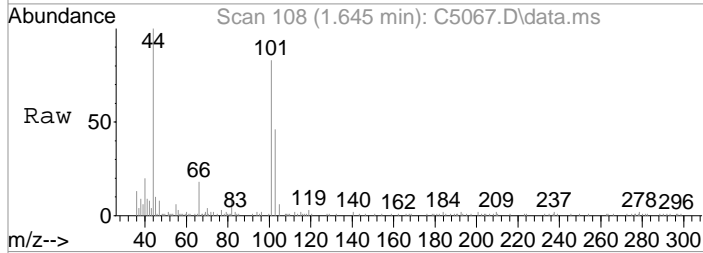
Quant Time: Feb 23 16:09:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





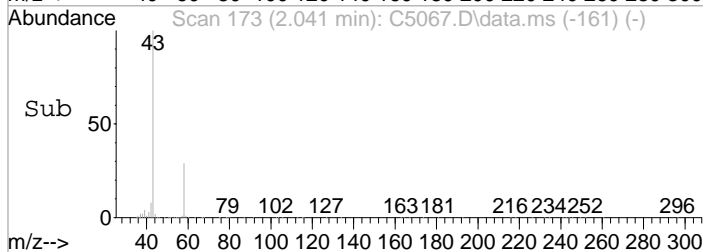
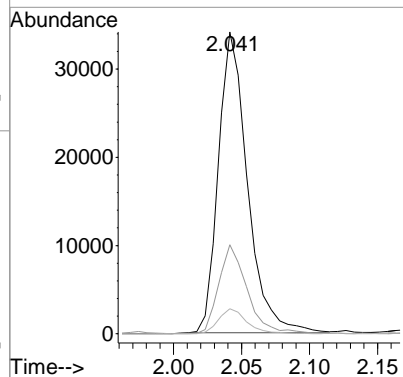
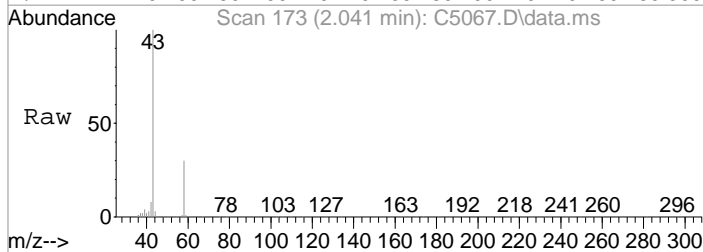
#8  
 Trichlorofluoromethane  
 Concen: 0.41 ug/L  
 RT: 1.645 min Scan# 108  
 Delta R.T. 0.000 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

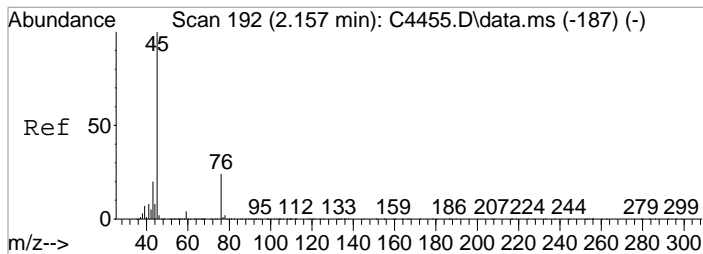
Tgt Ion	Resp	Lower	Upper
101	1194		
103	55.5	44.0	84.0
66	22.2	0.0	32.9



#15  
 Acetone  
 Concen: 52.15 ug/L  
 RT: 2.041 min Scan# 173  
 Delta R.T. 0.000 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

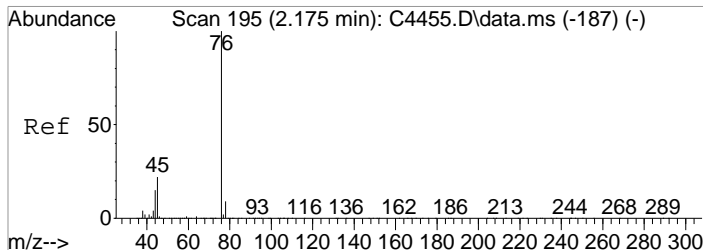
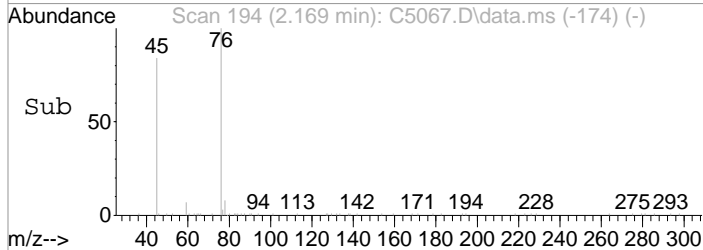
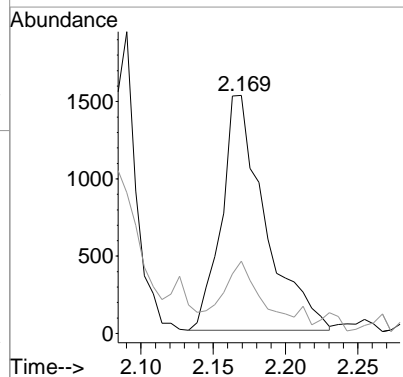
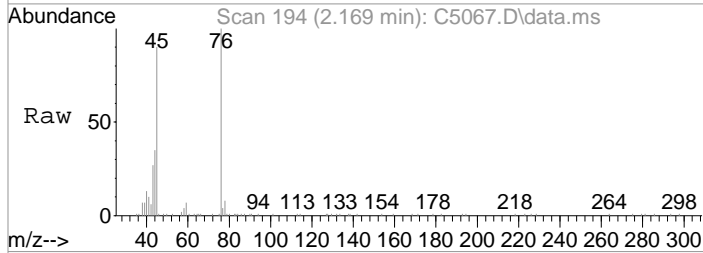
Tgt Ion	Resp	Lower	Upper
43	50585		
58	29.5	7.1	47.1
42	8.2	0.0	28.6





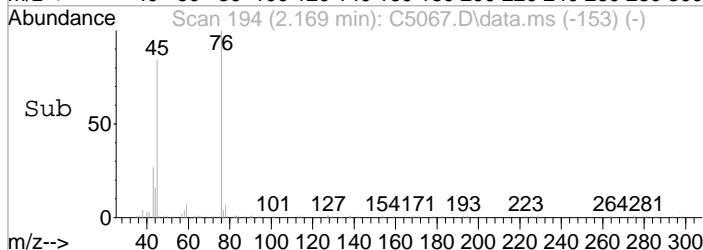
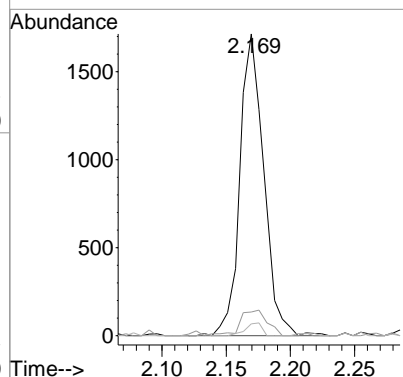
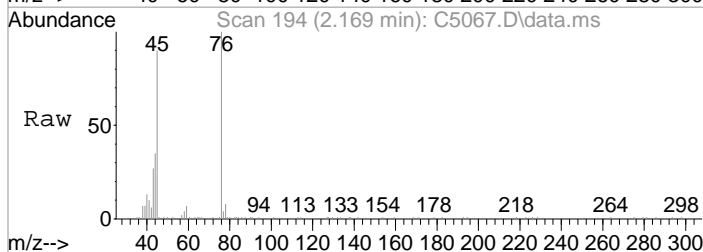
#16  
 2-Propanol  
 Concen: 14.43 ug/L  
 RT: 2.169 min Scan# 194  
 Delta R.T. 0.012 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

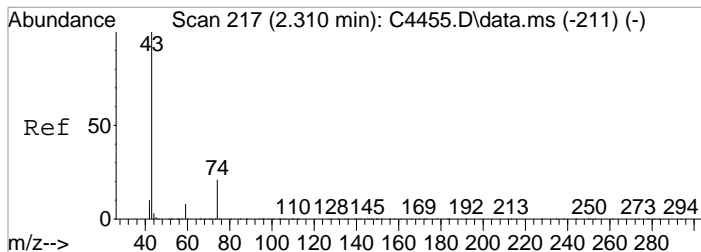
Tgt Ion	Resp	Lower	Upper
45	100		
43	30.4	0.1	40.1



#18  
 Carbon Disulfide  
 Concen: 0.35 ug/L  
 RT: 2.169 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

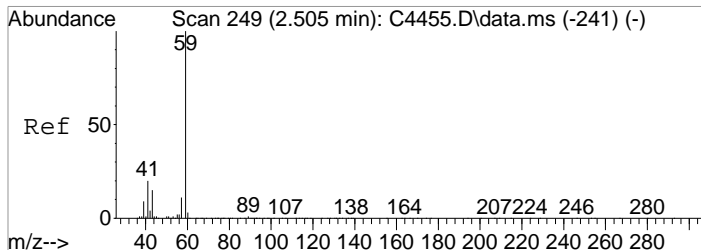
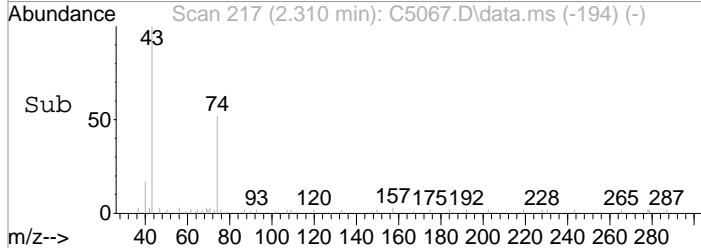
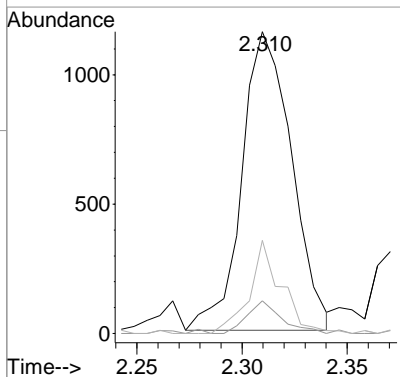
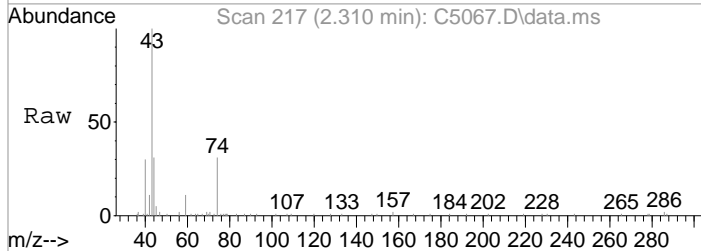
Tgt Ion	Resp	Lower	Upper
76	100		
78	7.9	0.0	28.9
77	4.0	0.0	22.4





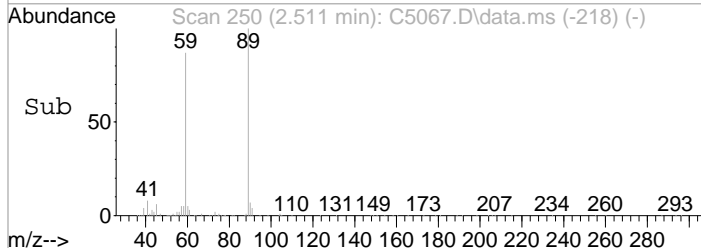
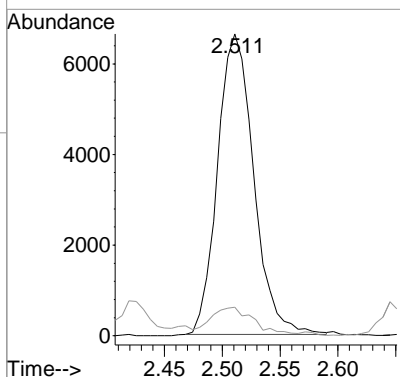
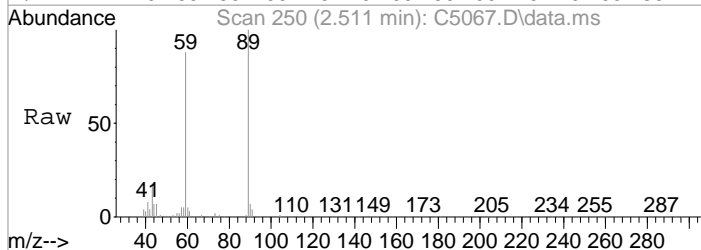
#21  
 Methyl Acetate  
 Concen: 1.03 ug/L  
 RT: 2.310 min Scan# 217  
 Delta R.T. 0.000 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

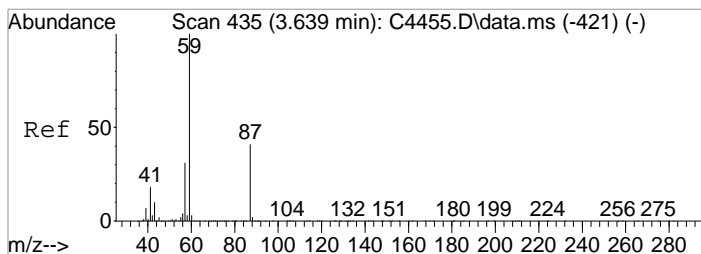
Tgt Ion	Resp	Lower	Upper
43	1905		
59	10.9	0.0	27.7
74	30.8	1.0	41.0



#23  
 TBA  
 Concen: 36.64 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

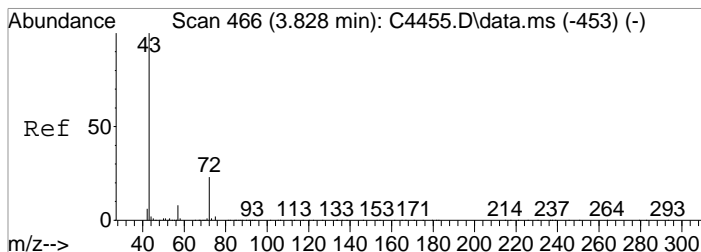
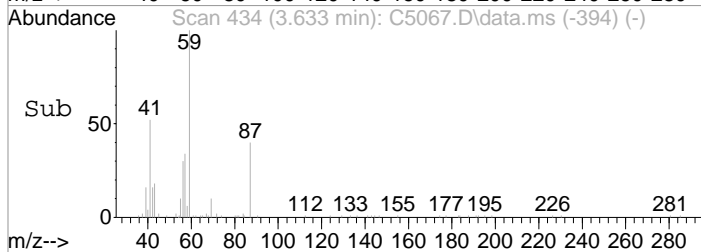
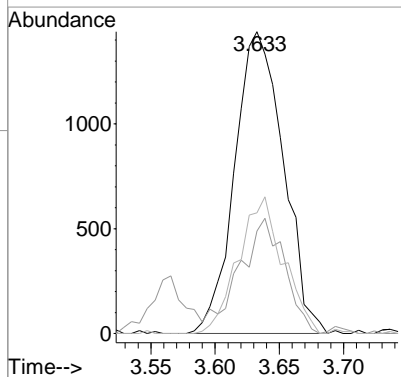
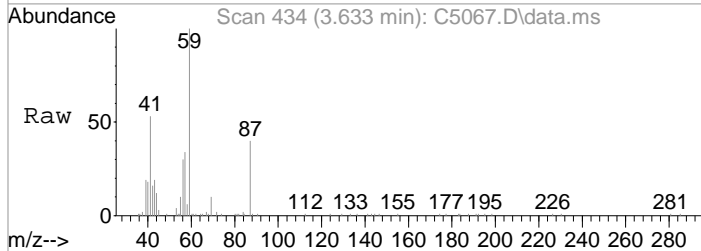
Tgt Ion	Resp	Lower	Upper
59	14453		
41	9.4	0.3	40.3





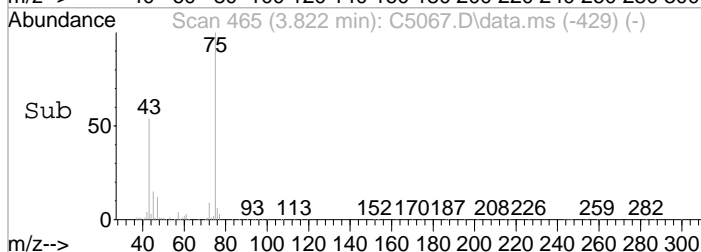
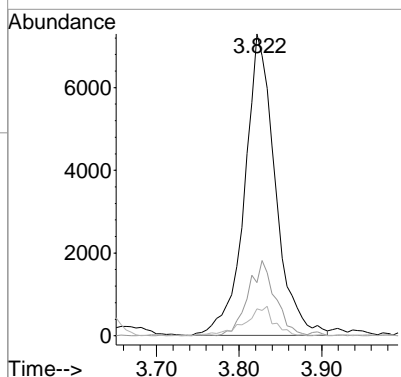
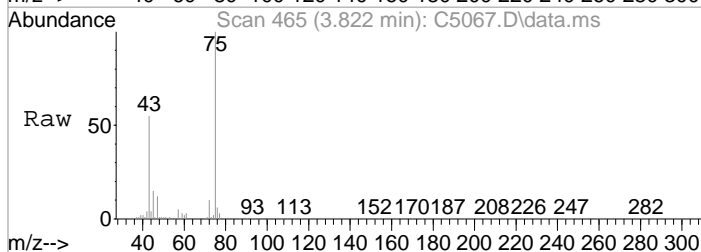
#31  
 ETBE  
 Concen: 0.52 ug/L  
 RT: 3.633 min Scan# 434  
 Delta R.T. -0.006 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

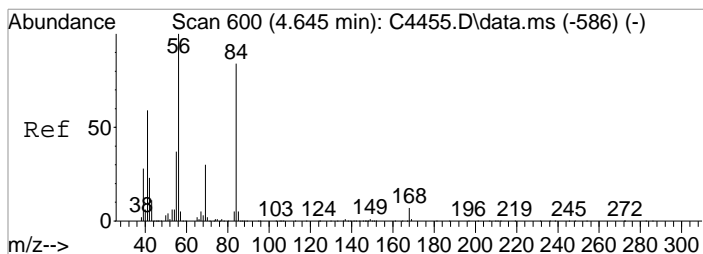
Tgt Ion	Resp	Lower	Upper
59	100		
57	33.9	11.5	51.5
87	40.0	21.4	61.4



#34  
 2-Butanone  
 Concen: 14.29 ug/L  
 RT: 3.822 min Scan# 465  
 Delta R.T. -0.005 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

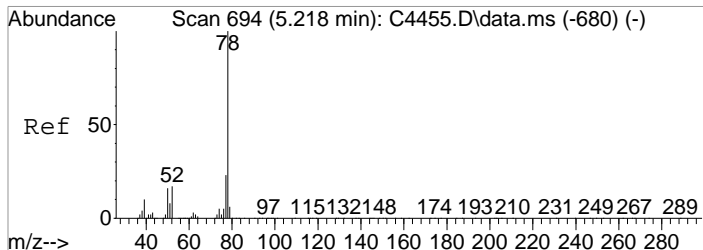
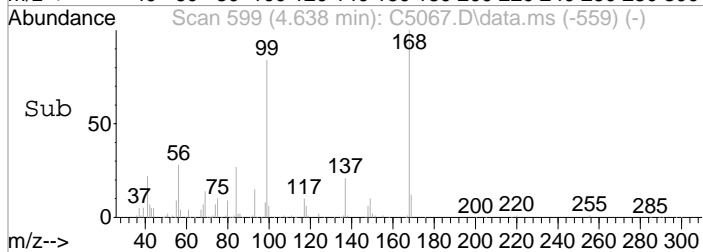
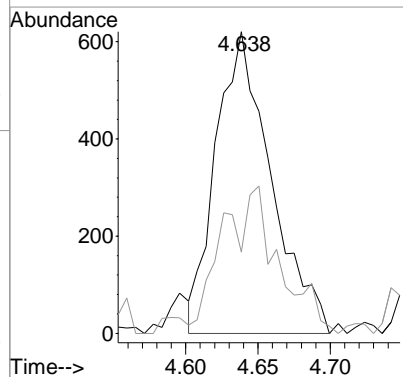
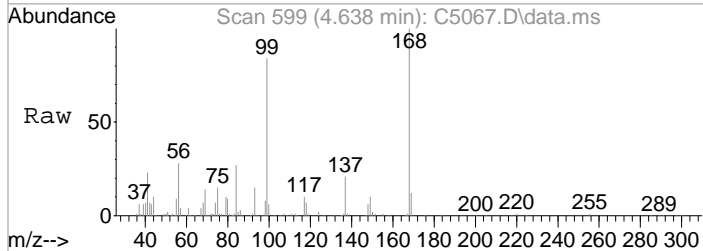
Tgt Ion	Resp	Lower	Upper
43	100		
72	17.6	3.3	43.3
57	8.9	0.0	28.0





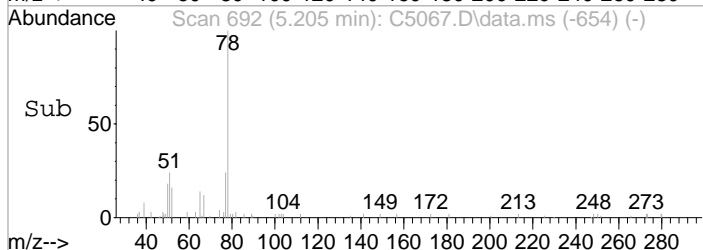
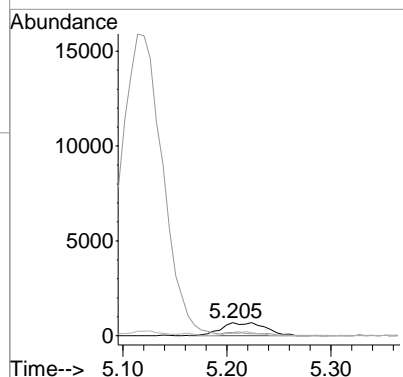
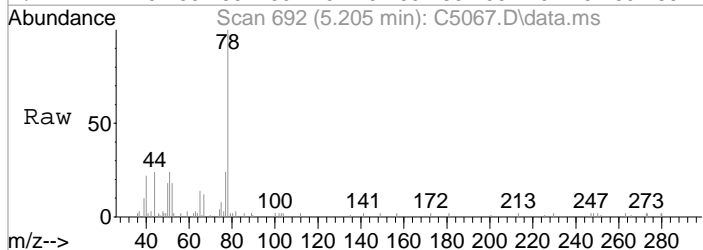
#43  
 Cyclohexane  
 Concen: 0.76 ug/L  
 RT: 4.638 min Scan# 599  
 Delta R.T. -0.006 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

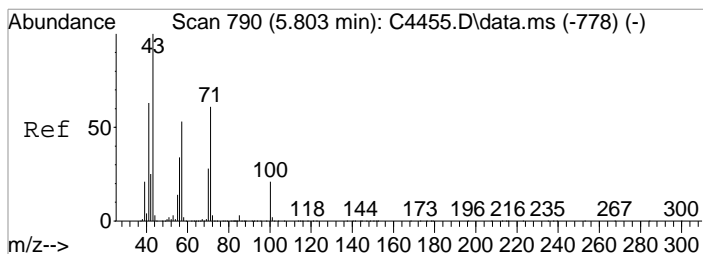
Tgt Ion	Resp	Lower	Upper
41	1644		
41	100		
39	26.9	28.0	68.0#



#48  
 Benzene  
 Concen: 0.24 ug/L m  
 RT: 5.205 min Scan# 692  
 Delta R.T. -0.012 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

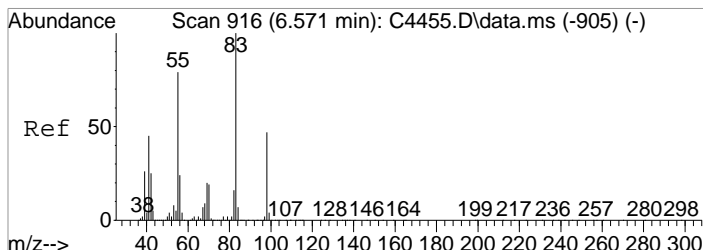
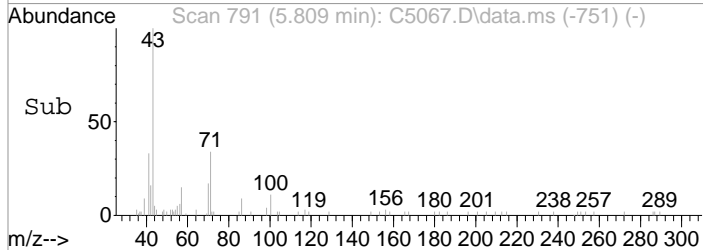
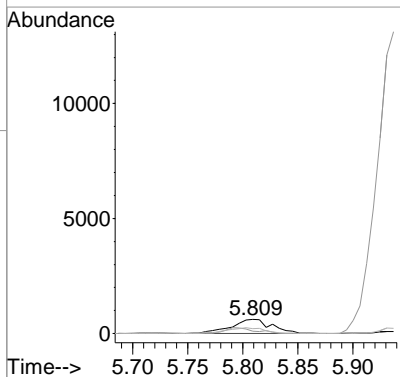
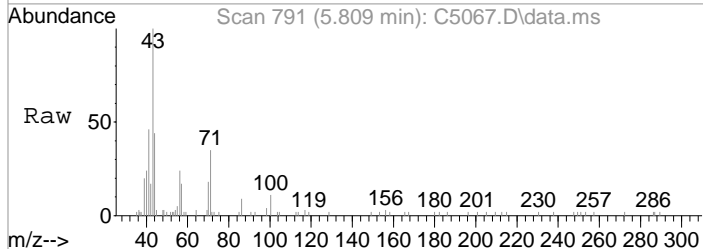
Tgt Ion	Resp	Lower	Upper
78	2054		
78	100		
51	24.2	0.0	37.4
52	18.1	0.0	36.9





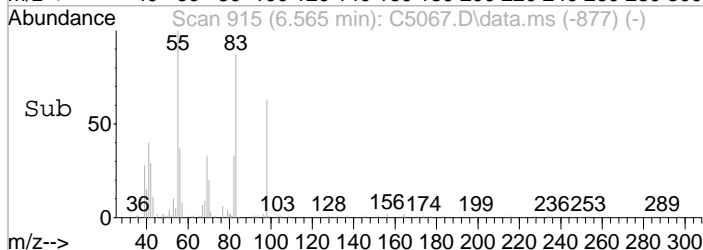
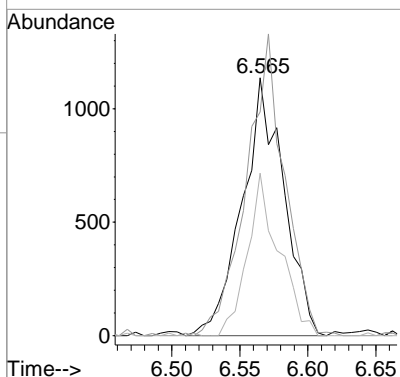
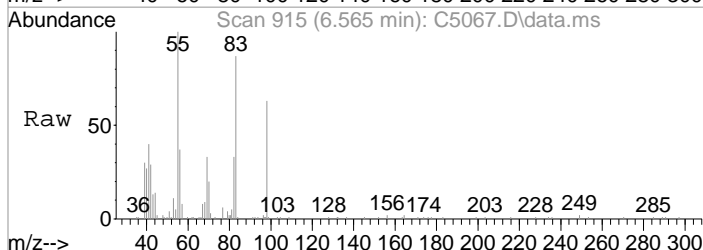
#51  
 n-Heptane  
 Concen: 0.66 ug/L  
 RT: 5.809 min Scan# 791  
 Delta R.T. 0.007 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

Tgt Ion	Resp	Lower	Upper
43	100		
57	16.8	33.3	73.3#
71	37.0	40.9	80.9#

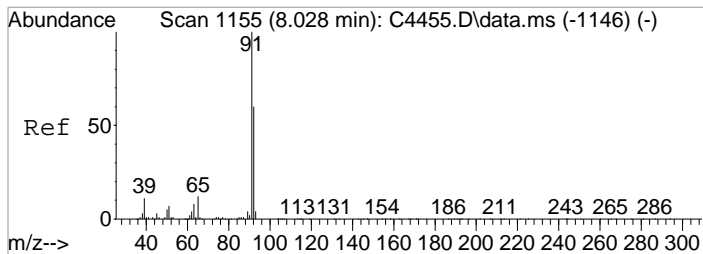


#54  
 Methylcyclohexane  
 Concen: 0.79 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

Tgt Ion	Resp	Lower	Upper
55	100		
83	86.7	106.2	146.2#
98	64.1	39.7	79.7

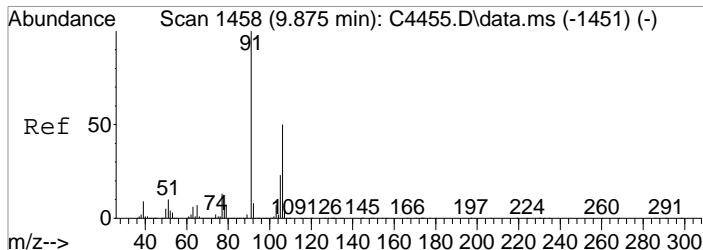
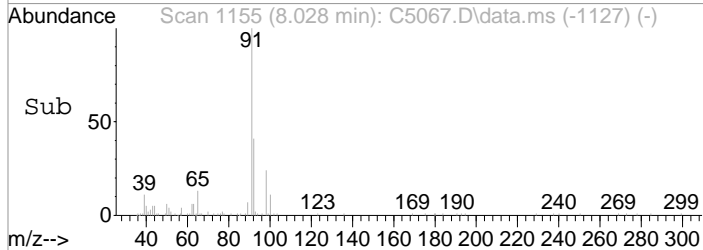
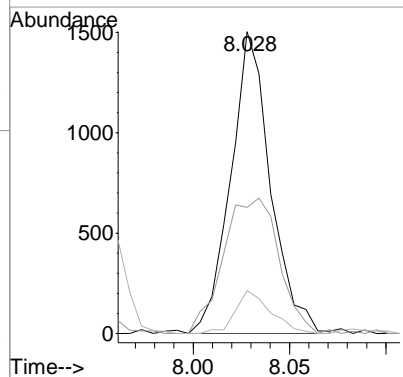
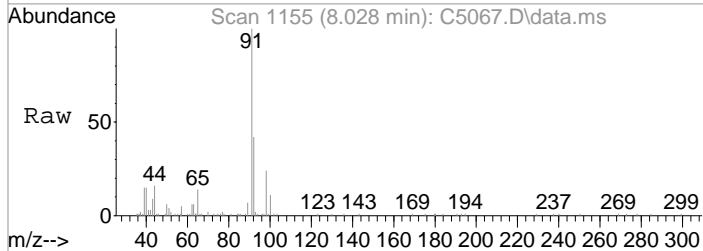






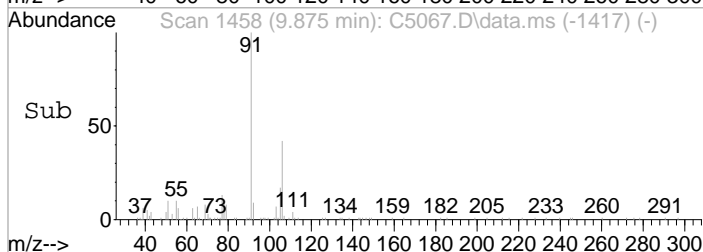
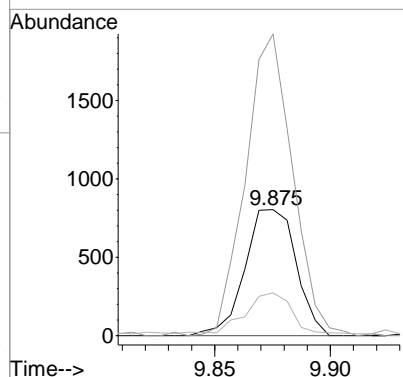
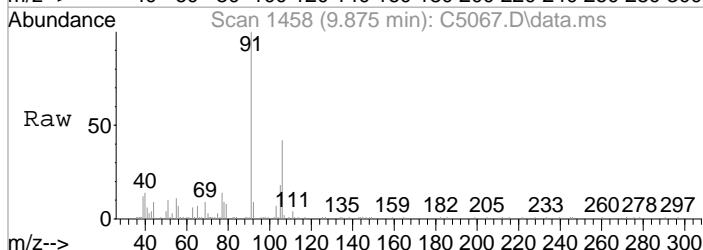
#65  
 Toluene  
 Concen: 0.24 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

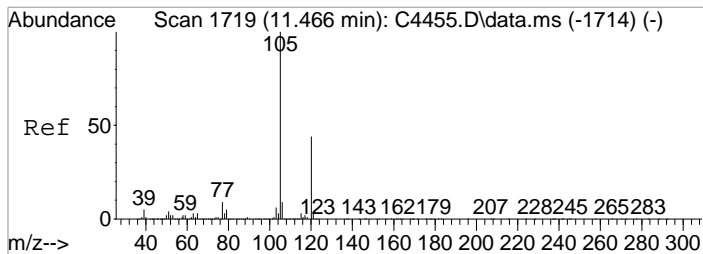
Tgt Ion	Resp	Lower	Upper
91	100		
92	41.8	39.7	79.7
65	14.2	0.0	31.9



#80  
 (m+p)Xylene  
 Concen: 0.33 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

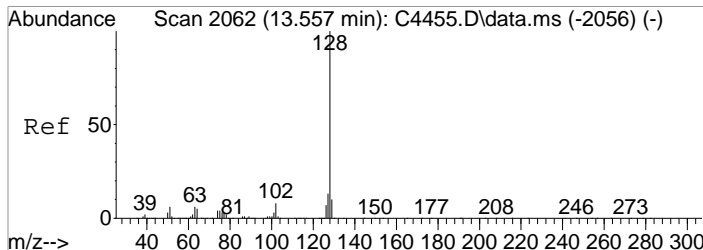
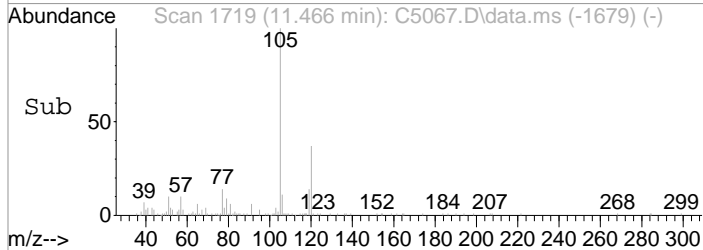
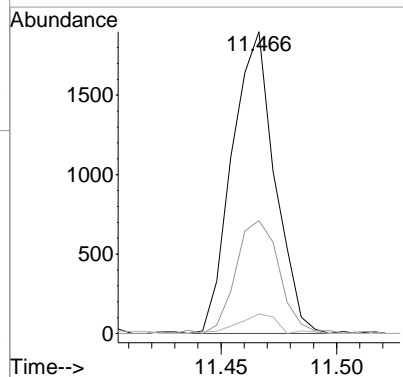
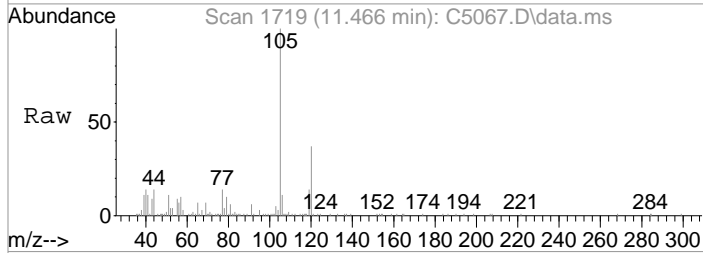
Tgt Ion	Resp	Lower	Upper
106	100		
91	239.1	180.9	220.9#
77	34.0	5.7	45.7





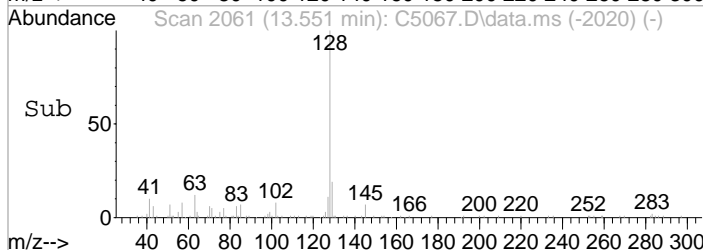
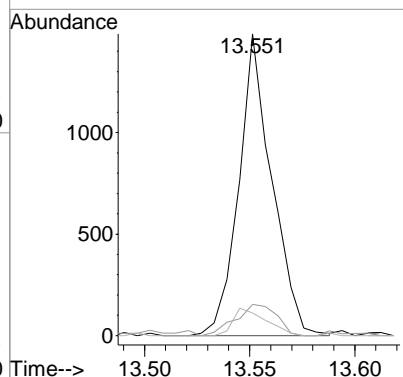
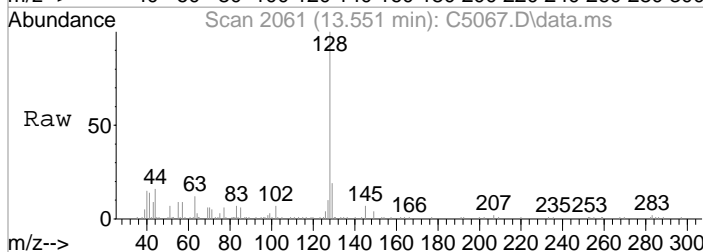
#96  
 1,2,4-Trimethylbenzene  
 Concen: 0.39 ug/L  
 RT: 11.466 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

Tgt Ion	Resp	Lower	Upper
105	100		
120	37.5	26.3	66.3
65	6.5	0.0	24.4



#107  
 Naphthalen  
 Concen: 0.24 ug/L  
 RT: 13.551 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5067.D  
 Acq: 22 Feb 2018 10:02 pm

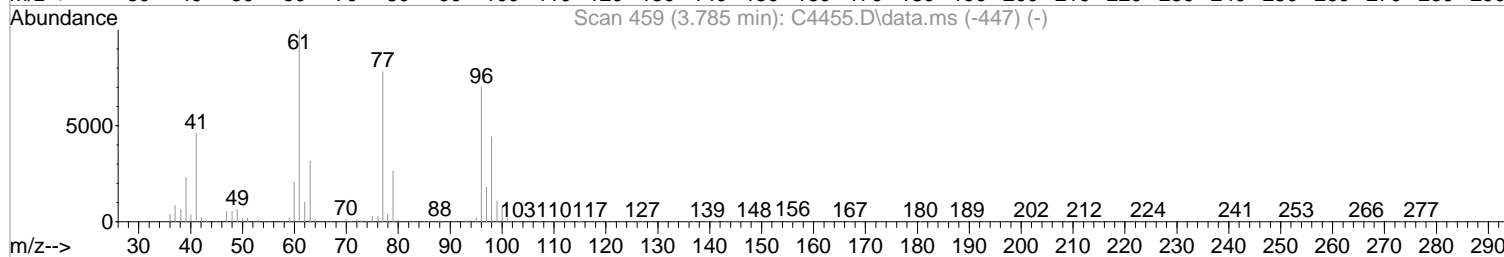
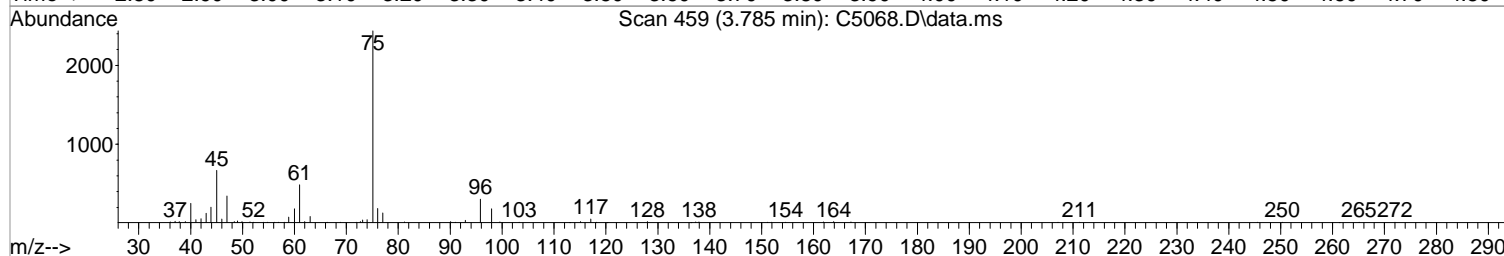
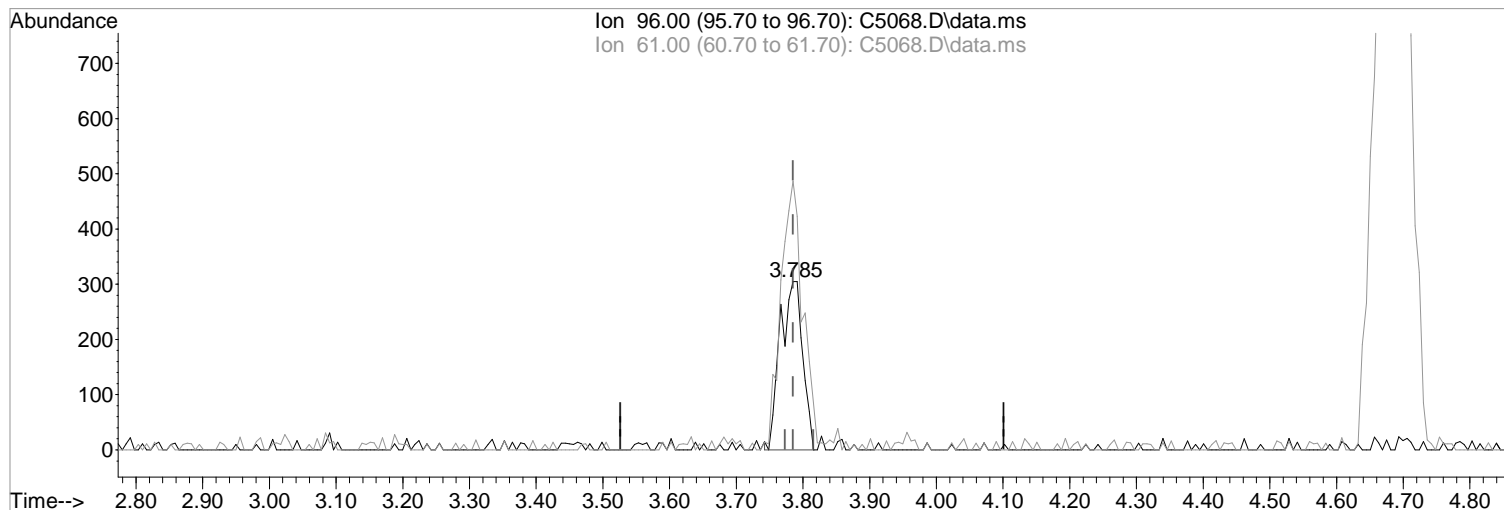
Tgt Ion	Resp	Lower	Upper
128	100		
127	10.4	0.0	33.4
102	7.5	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5068.D  
Acq On : 22 Feb 2018 10:26 pm  
Operator : K.Ruest  
Sample : R1801453-009|0.69  
Misc : DAY 8260 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:34:48 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(33) cis-1,2-Dichloroethene (P)

3.785min (+0.000) 0.29 ug/L m

response 712

Ion	Exp%	Act%
96.00	100	100
61.00	142.70	159.67
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

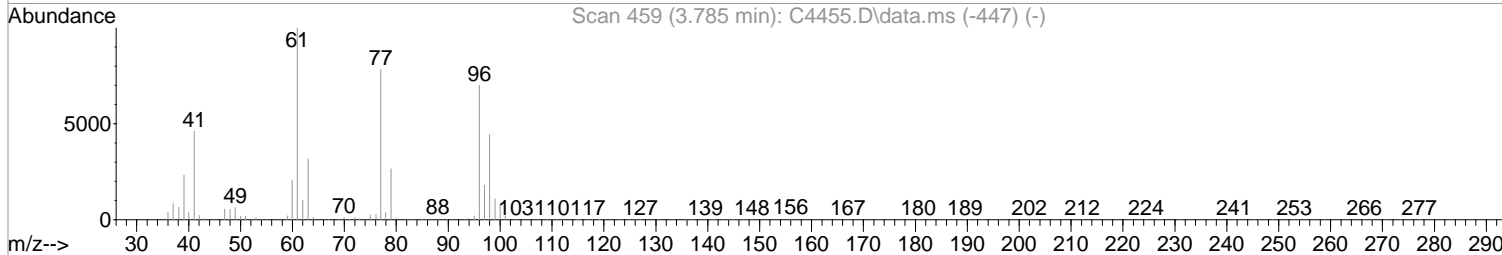
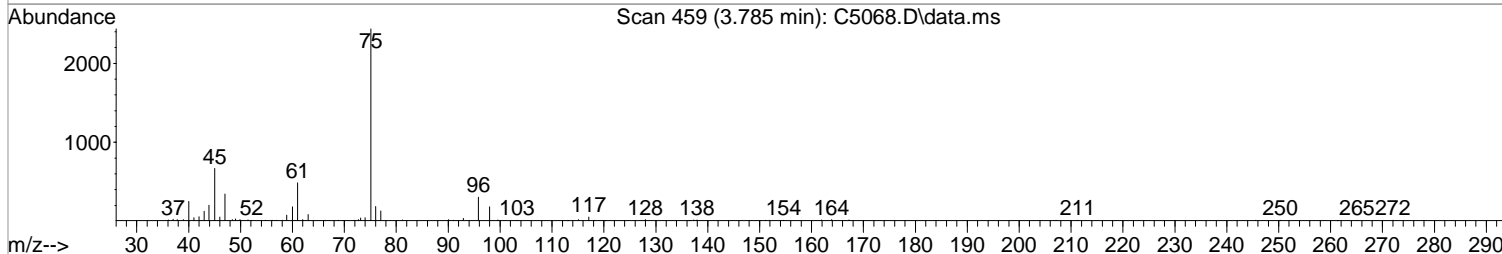
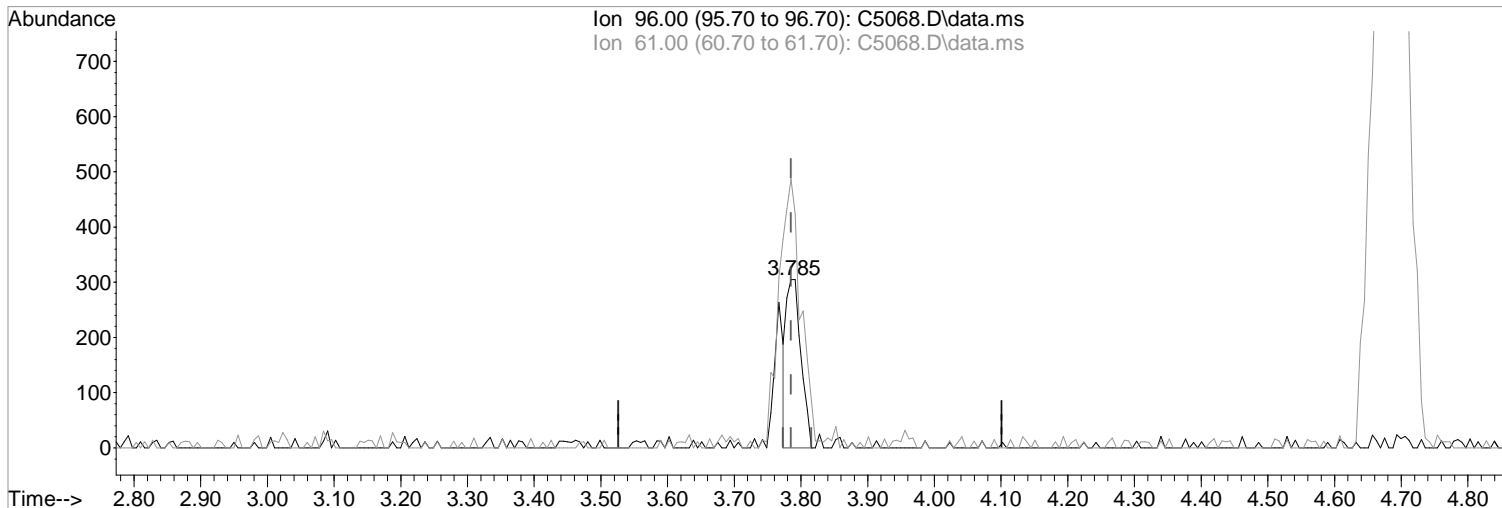
Split Peak

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5068.D  
Acq On : 22 Feb 2018 10:26 pm  
Operator : K.Ruest  
Sample : R1801453-009|0.69  
Misc : DAY 8260 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:34:48 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C5068.D\data.ms

(33) cis-1,2-Dichloroethene (P)

3.785min (+0.000) 0.19 ug/L

response 468

Ion	Exp%	Act%
96.00	100	100
61.00	142.70	159.67
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5068.D  
 Acq On : 22 Feb 2018 10:26 pm  
 Operator : K.Ruest  
 Sample : R1801453-009|0.69 Inst : MSVOA14  
 Misc : DAY 8260 T4  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 23 16:12:00 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

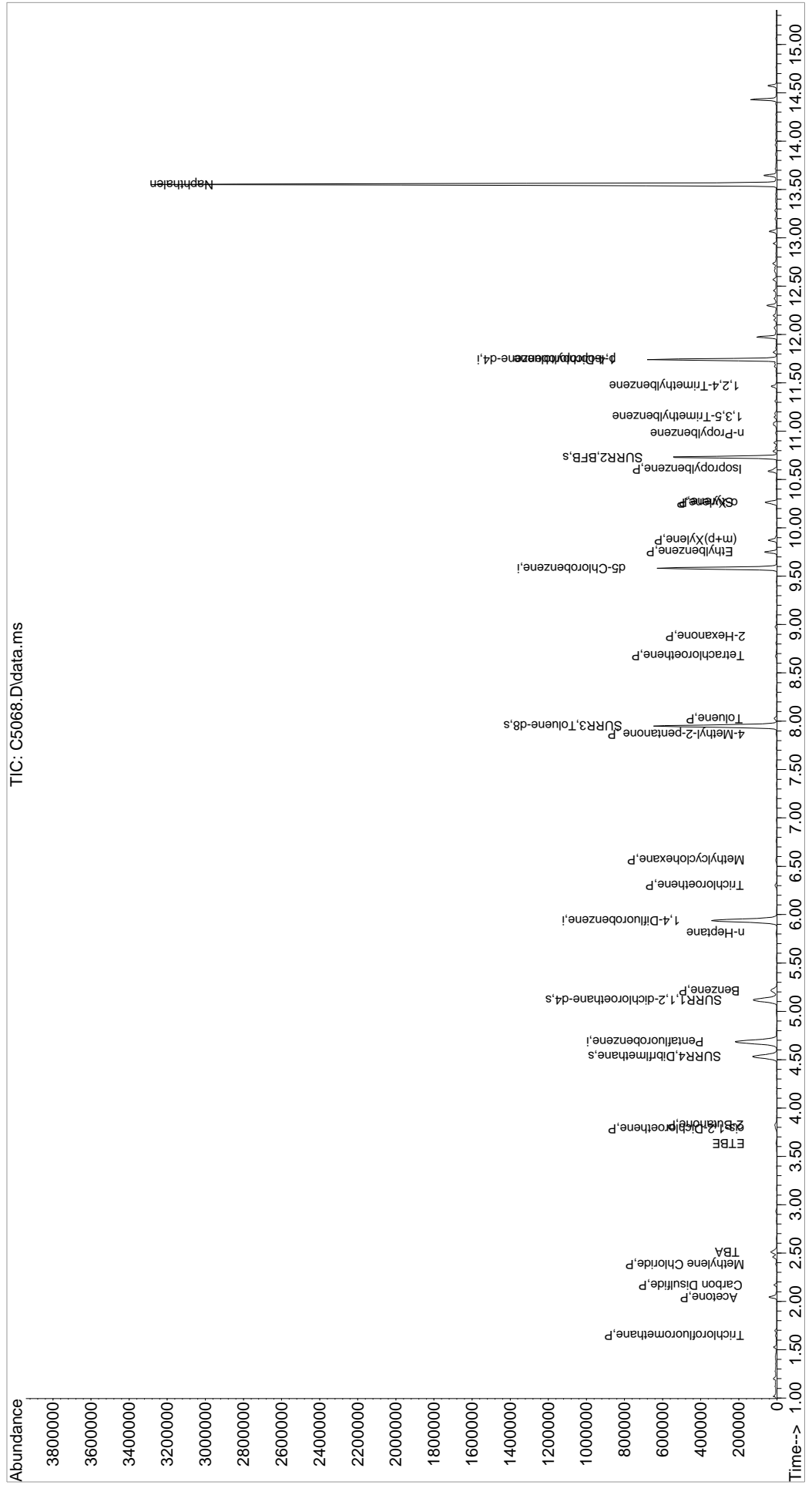
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	216701	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	328273	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	278723	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	126119	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	101155	49.48	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.96%		
47) SURR1,1,2-dichloroetha...	5.120	65	127628	52.12	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	104.24%		
64) SURR3,Toluene-d8	7.949	98	394798	50.50	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	101.00%		
69) SURR2,BFB	10.729	95	142316	45.13	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	90.26%		
Target Compounds						
8) Trichlorofluoromethane	1.645	101	2229	0.76	ug/L	Qvalue 89
15) Acetone	2.042	43	41289	42.05	ug/L	98
18) Carbon Disulfide	2.170	76	12816	1.98	ug/L	98
22) Methylene Chloride	2.383	84	1763	0.78	ug/L	94
23) TBA	2.511	59	37201	93.17	ug/L	95
31) ETBE	3.633	59	2945	0.40	ug/L	96
33) cis-1,2-Dichloroethene	3.785	96	712m	0.29	ug/L	
34) 2-Butanone	3.828	43	12127	9.13	ug/L	94
48) Benzene	5.212	78	38169	4.43	ug/L	99
51) n-Heptane	5.809	43	3241	1.30	ug/L	# 61
53) Trichloroethene	6.303	130	3715	1.55	ug/L	90
54) Methylcyclohexane	6.571	55	2186	0.70	ug/L	89
63) 4-Methyl-2-pentanone	7.864	43	2435	0.91	ug/L	89
65) Toluene	8.028	91	8227	0.87	ug/L	91
71) Tetrachloroethene	8.680	164	1547	0.84	ug/L	# 76
72) 2-Hexanone	8.876	43	803	0.43	ug/L	79
79) Ethylbenzene	9.753	106	12133	3.80	ug/L	100
80) (m+p)Xylene	9.875	106	10498	2.62	ug/L	100
81) o-Xylene	10.253	106	5937	1.50	ug/L	97
82) Styrene	10.266	104	21567	3.15	ug/L	98
84) Isopropylbenzene	10.607	105	8779	0.86	ug/L	94
91) n-Propylbenzene	10.979	91	3816	0.39	ug/L	89
94) 1,3,5-Trimethylbenzene	11.150	105	5805	0.80	ug/L	94
96) 1,2,4-Trimethylbenzene	11.467	105	12035	1.64	ug/L	98
98) p-Isopropyltoluene	11.741	119	5795	0.73	ug/L	92
107) Naphthalen	13.551	128	1887816	238.53	ug/L	98

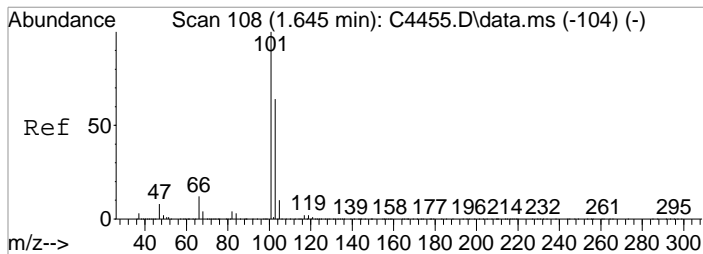
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5068.D  
 Acq On : 22 Feb 2018 10:26 pm  
 Operator : K.Ruest  
 Sample : R1801453-009|0.69  
 Misc : DAY 8260 T4  
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA14

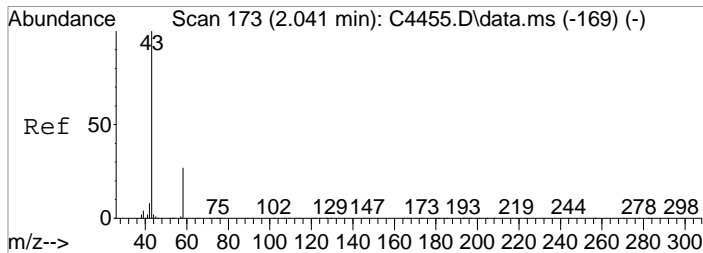
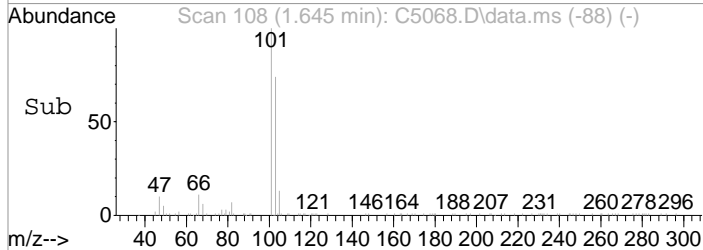
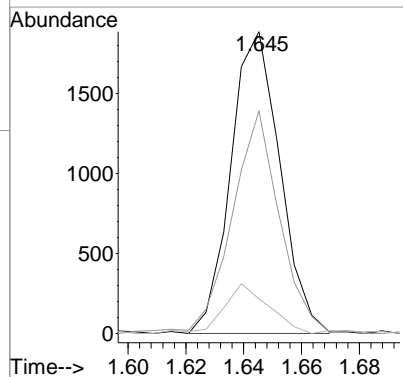
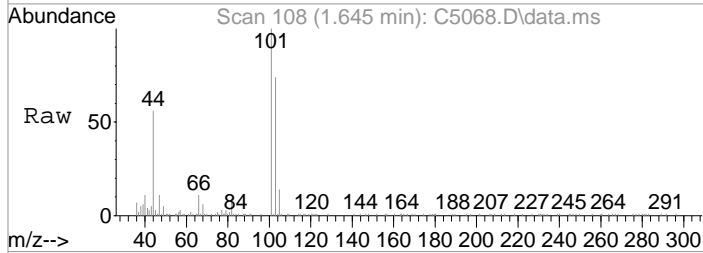
Quant Time: Feb 23 16:12:00 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





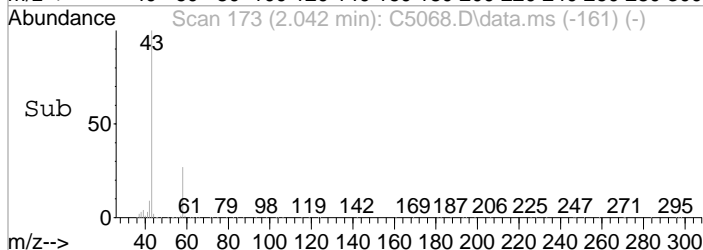
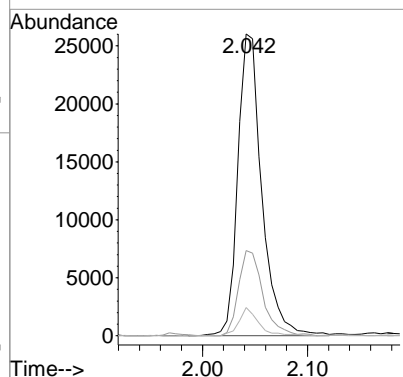
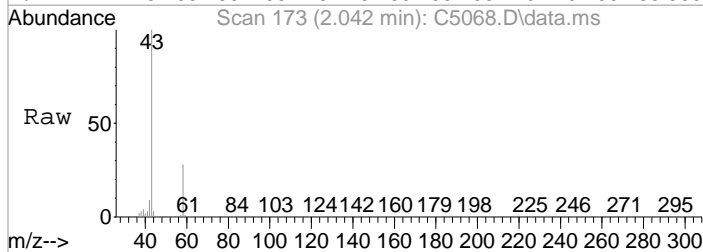
#8  
 Trichlorofluoromethane  
 Concen: 0.76 ug/L  
 RT: 1.645 min Scan# 108  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

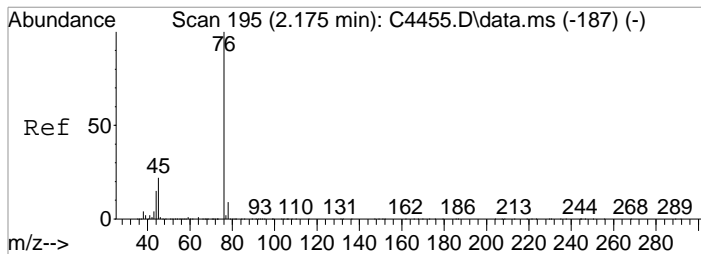
Tgt Ion	Resp	Lower	Upper
101	100		
103	73.8	44.0	84.0
66	11.5	0.0	32.9



#15  
 Acetone  
 Concen: 42.05 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. 0.001 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

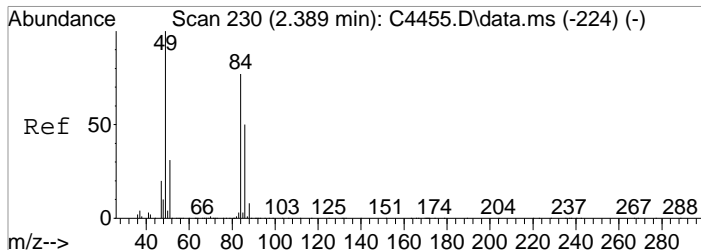
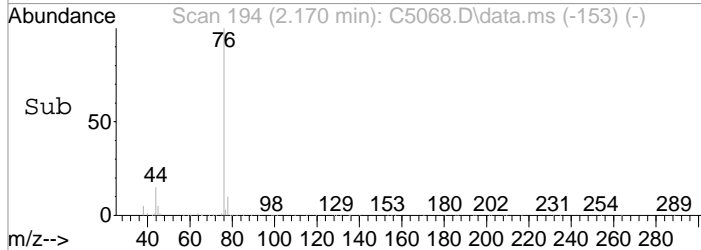
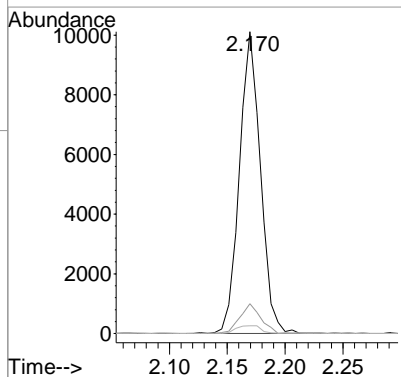
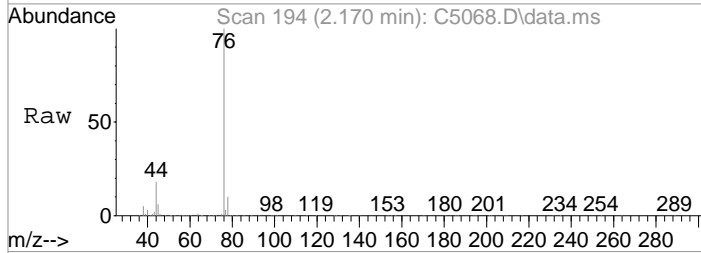
Tgt Ion	Resp	Lower	Upper
43	100		
58	28.3	7.1	47.1
42	9.4	0.0	28.6





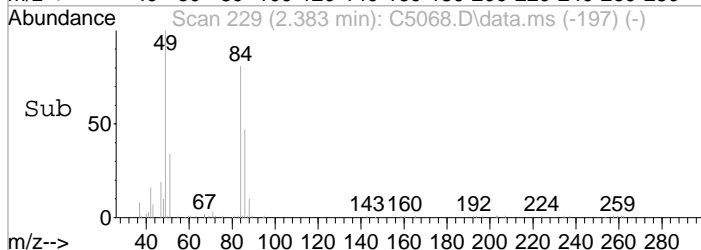
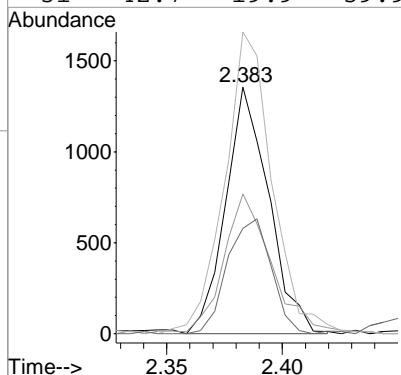
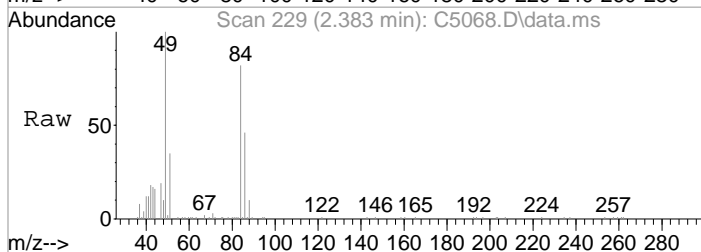
#18  
 Carbon Disulfide  
 Concen: 1.98 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

Tgt Ion	Resp	Lower	Upper
76	12816		
78	9.9	0.0	28.9
77	2.6	0.0	22.4

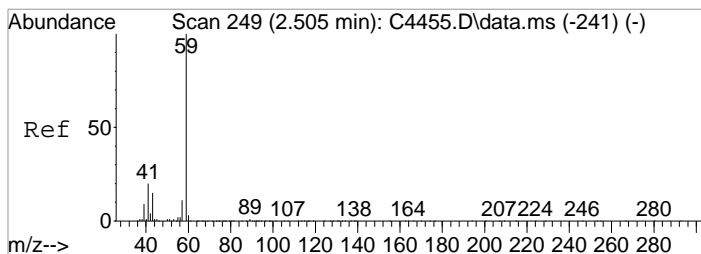


#22  
 Methylene Chloride  
 Concen: 0.78 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

Tgt Ion	Resp	Lower	Upper
84	1763		
86	56.7	43.9	83.9
49	122.4	109.1	149.1
51	42.7	19.9	59.9

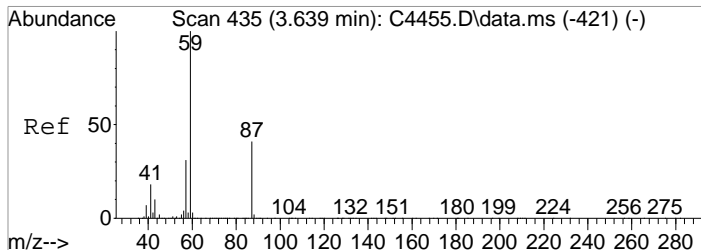
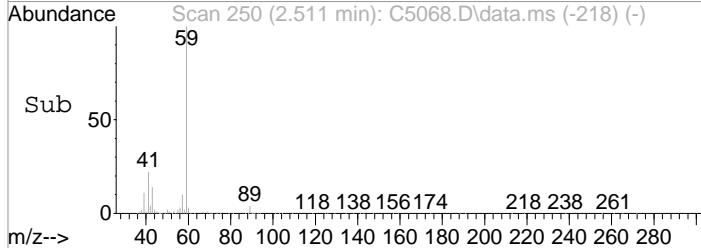
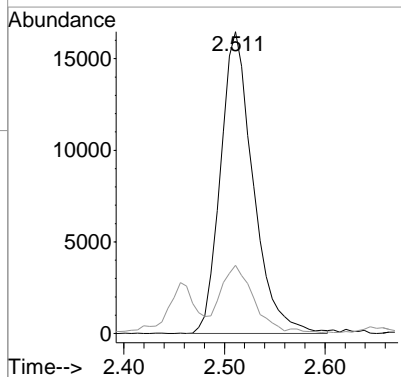
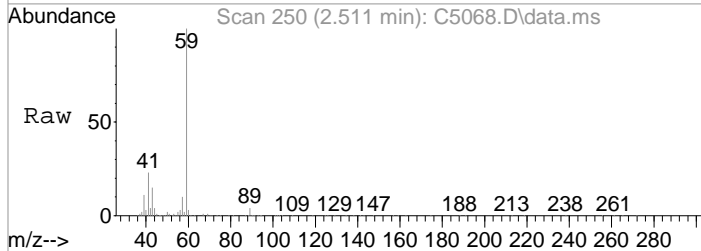






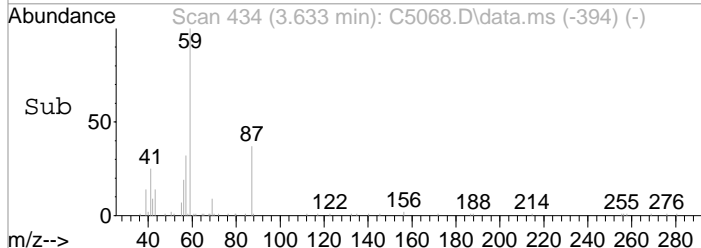
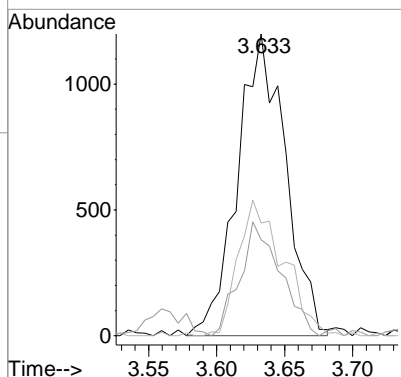
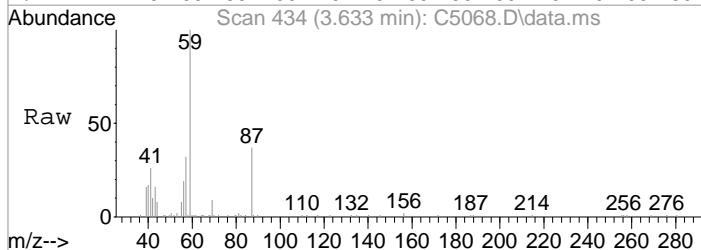
#23  
 TBA  
 Concen: 93.17 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

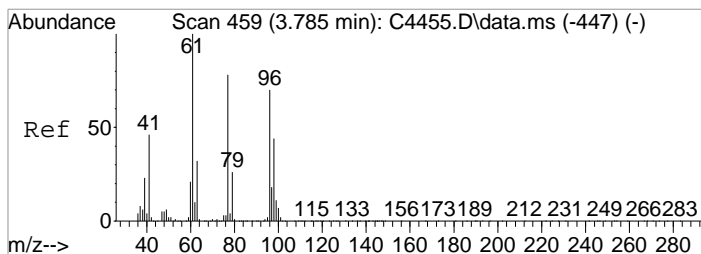
Tgt Ion	Resp	Lower	Upper
59	100		
41	22.6	0.3	40.3



#31  
 ETBE  
 Concen: 0.40 ug/L  
 RT: 3.633 min Scan# 434  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

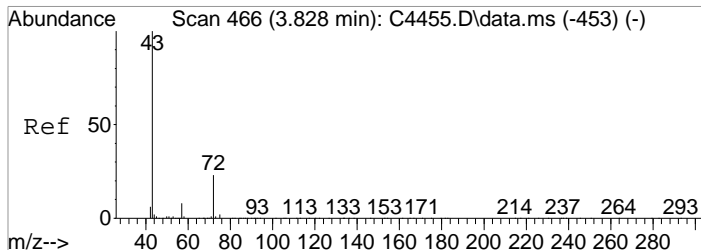
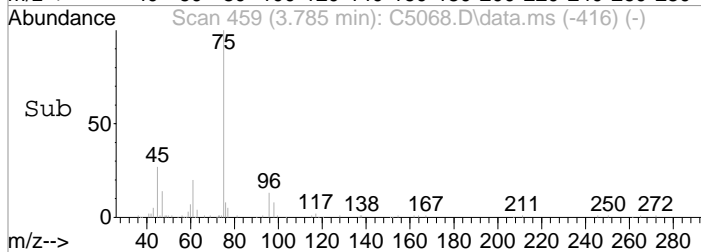
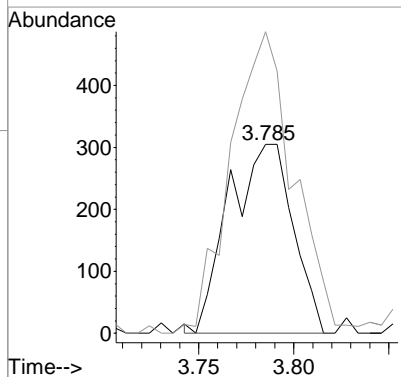
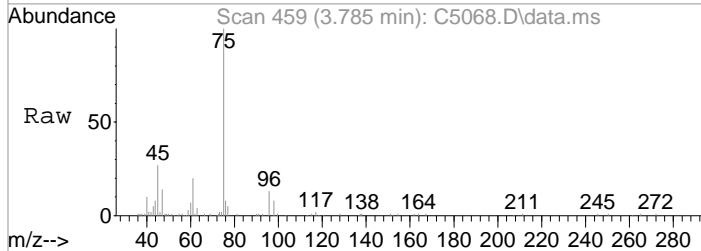
Tgt Ion	Resp	Lower	Upper
59	100		
57	31.8	11.5	51.5
87	37.3	21.4	61.4





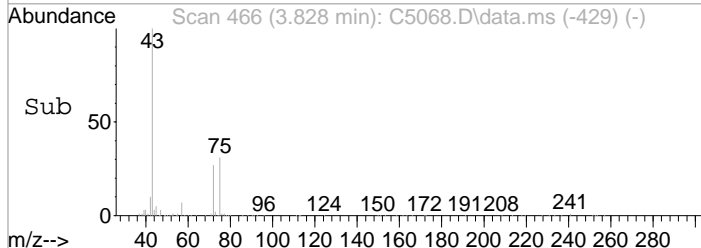
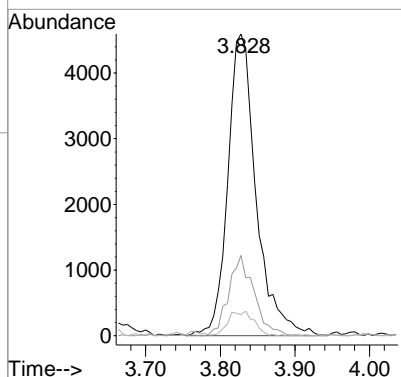
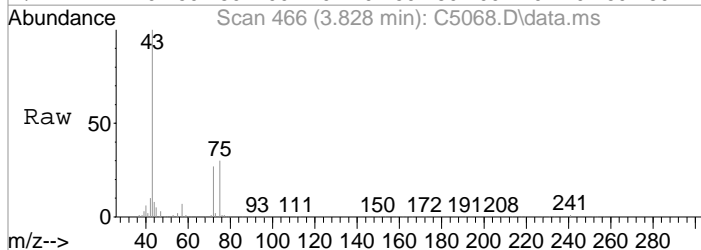
#33  
 cis-1,2-Dichloroethene  
 Concen: 0.29 ug/L m  
 RT: 3.785 min Scan# 459  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

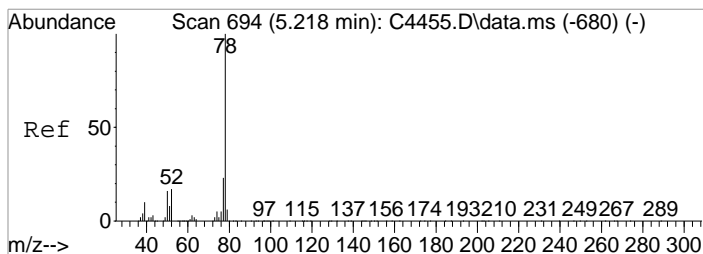
Tgt Ion	Resp	Lower	Upper
96	712		
96	100		
61	159.7	122.7	162.7



#34  
 2-Butanone  
 Concen: 9.13 ug/L  
 RT: 3.828 min Scan# 466  
 Delta R.T. 0.001 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

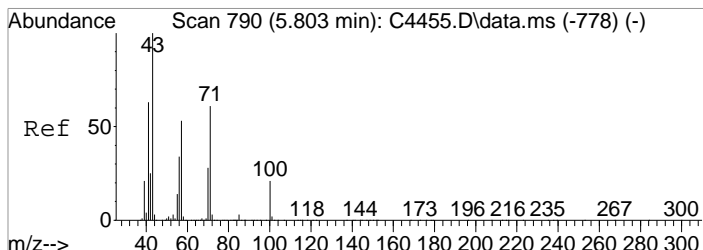
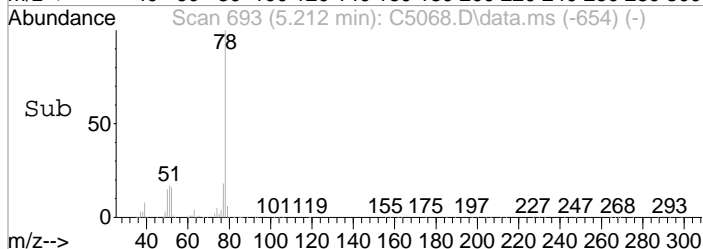
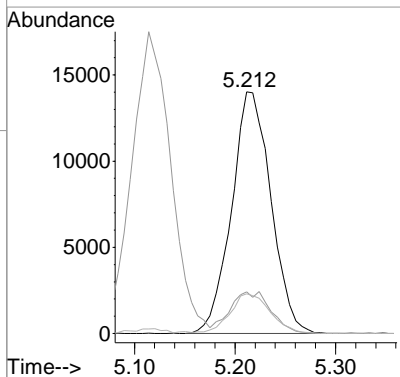
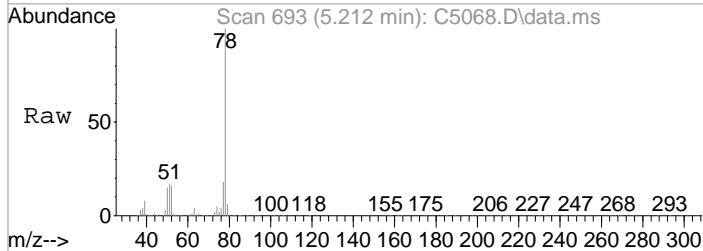
Tgt Ion	Resp	Lower	Upper
43	12127		
43	100		
72	26.6	3.3	43.3
57	7.1	0.0	28.0





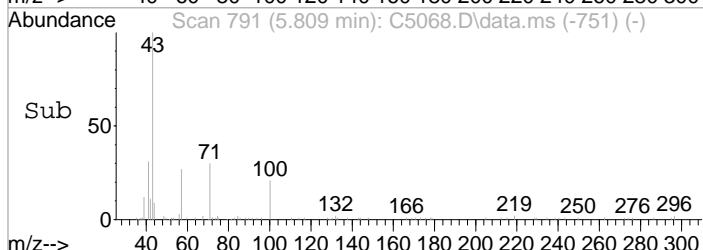
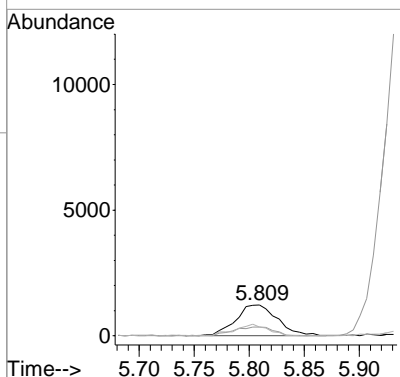
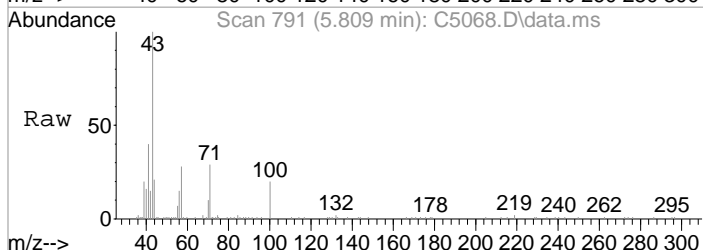
#48  
 Benzene  
 Concen: 4.43 ug/L  
 RT: 5.212 min Scan# 693  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

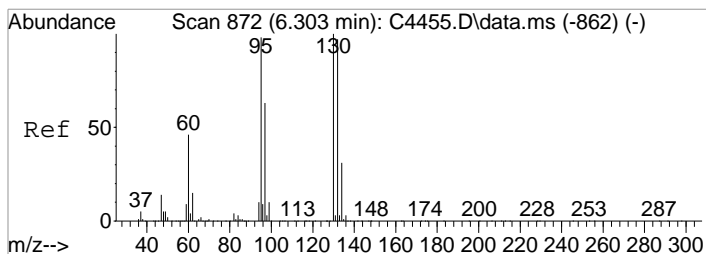
Tgt Ion	Resp	Lower	Upper
78	38169		
51	17.3	0.0	37.4
52	16.5	0.0	36.9



#51  
 n-Heptane  
 Concen: 1.30 ug/L  
 RT: 5.809 min Scan# 791  
 Delta R.T. 0.007 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

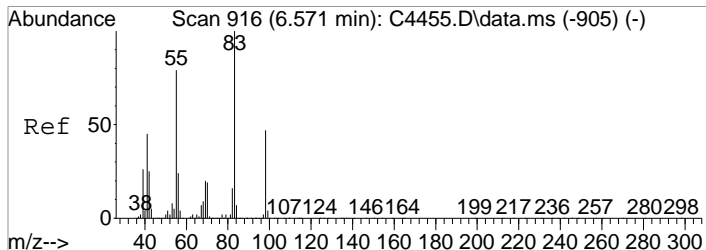
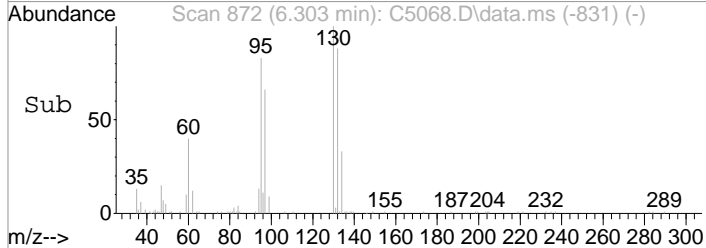
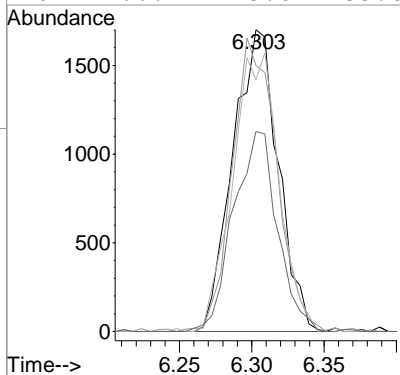
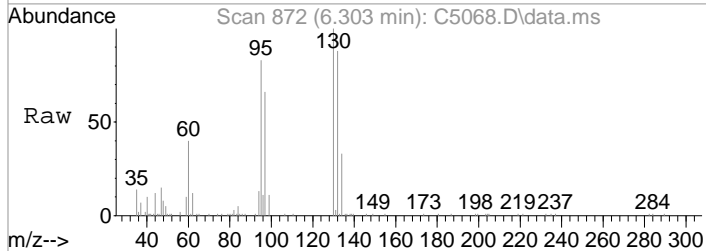
Tgt Ion	Resp	Lower	Upper
43	3241		
57	28.3	33.3	73.3#
71	28.8	40.9	80.9#





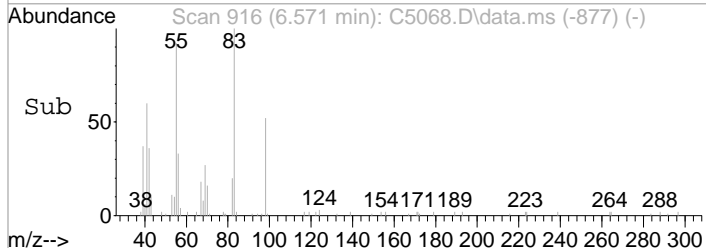
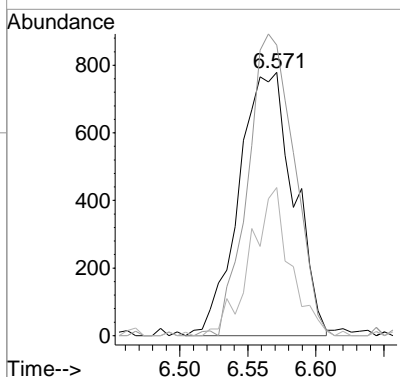
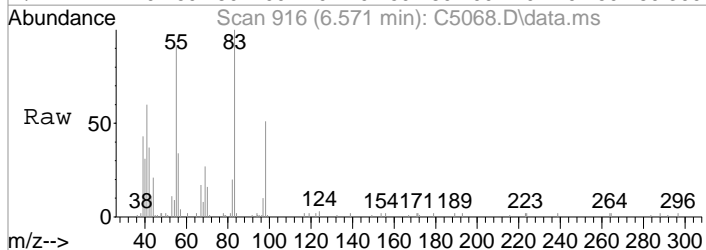
#53  
 Trichloroethene  
 Concen: 1.55 ug/L  
 RT: 6.303 min Scan# 872  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

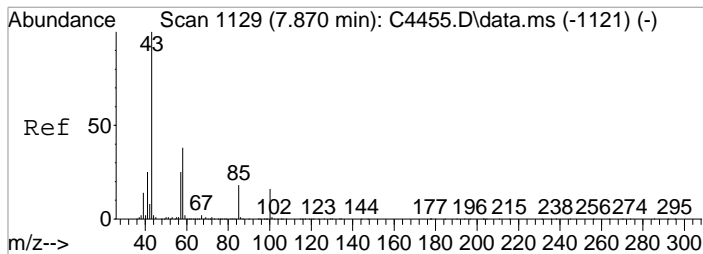
Tgt Ion	Resp	Lower	Upper
130	3715		
132	88.1	77.0	117.0
95	83.4	78.3	118.3
97	66.2	43.0	83.0



#54  
 Methylcyclohexane  
 Concen: 0.70 ug/L  
 RT: 6.571 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

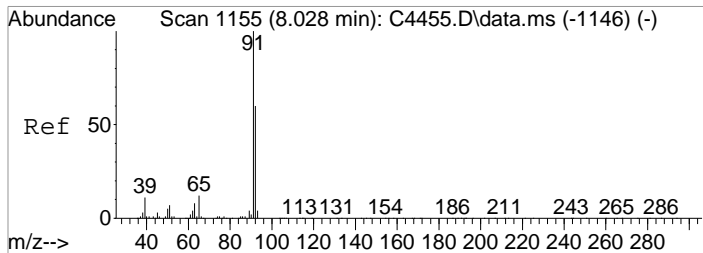
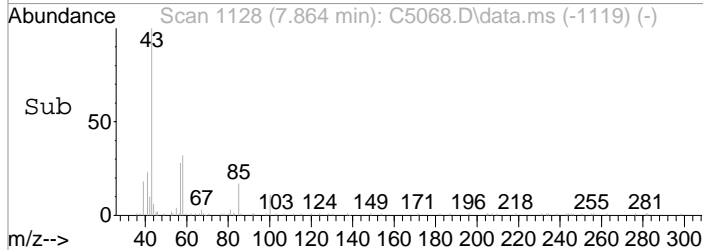
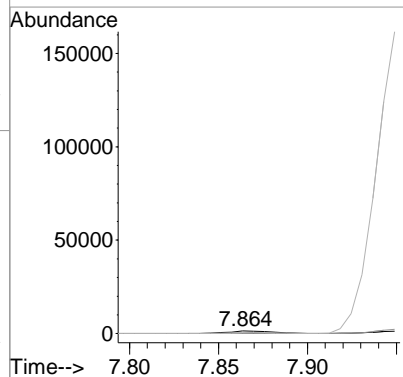
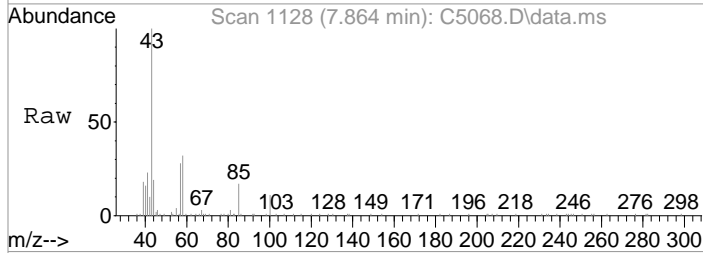
Tgt Ion	Resp	Lower	Upper
55	2186		
83	110.3	106.2	146.2
98	56.2	39.7	79.7





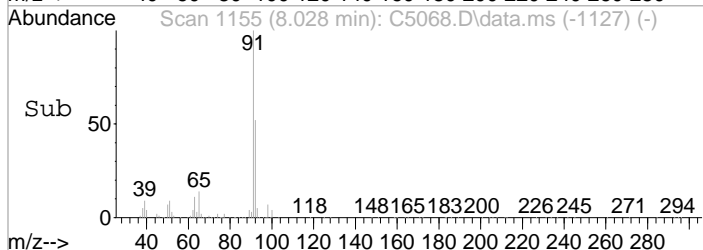
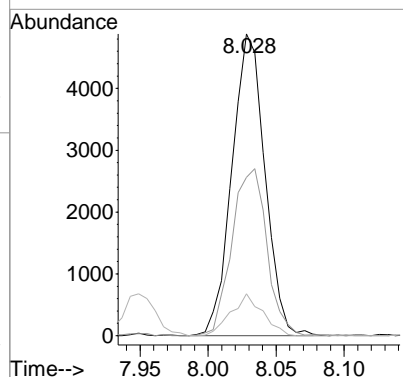
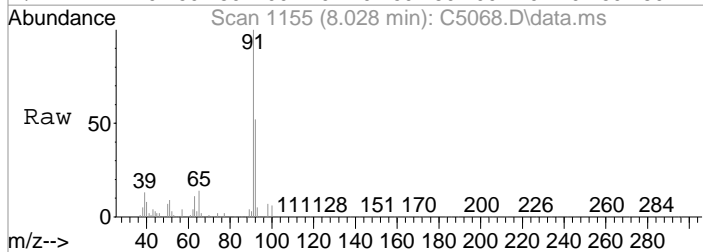
#63  
 4-Methyl-2-pentanone  
 Concen: 0.91 ug/L  
 RT: 7.864 min Scan# 1128  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

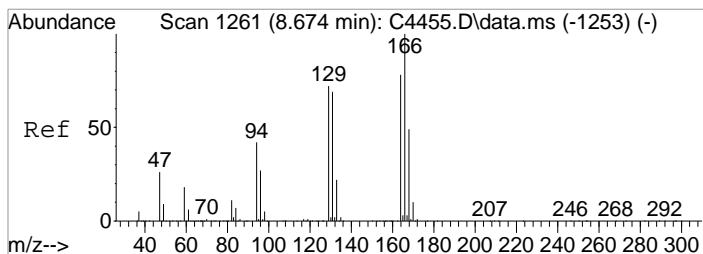
Tgt Ion	Resp	Lower	Upper
43	100		
58	31.7	18.2	58.2
100	10.6	0.0	36.2



#65  
 Toluene  
 Concen: 0.87 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

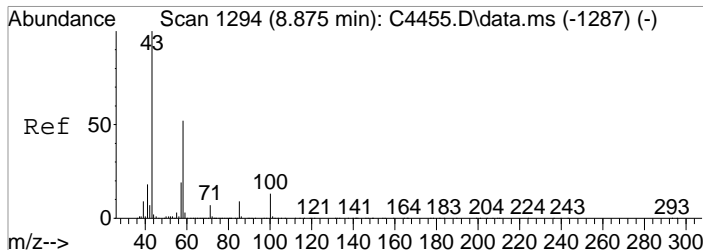
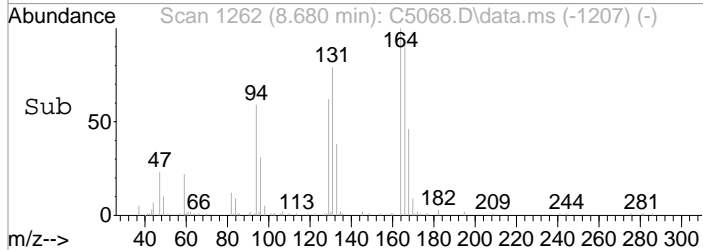
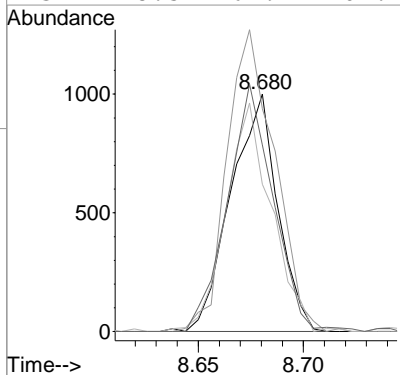
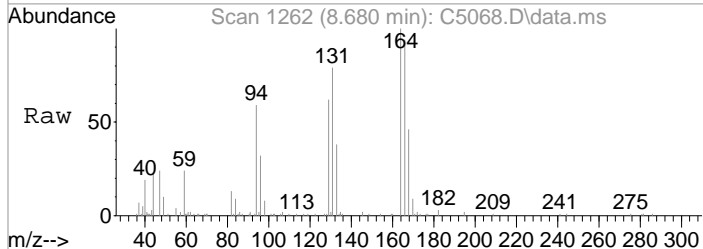
Tgt Ion	Resp	Lower	Upper
91	100		
92	52.5	39.7	79.7
65	13.9	0.0	31.9





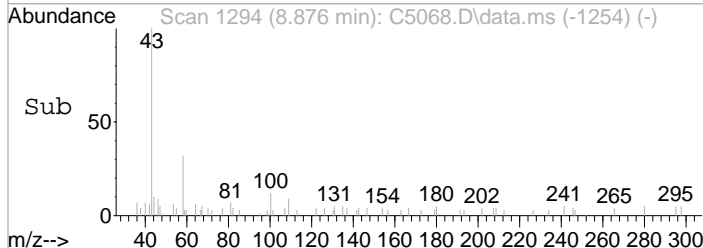
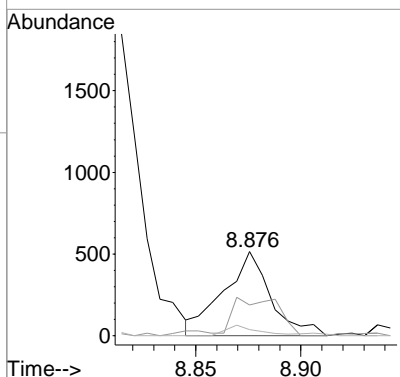
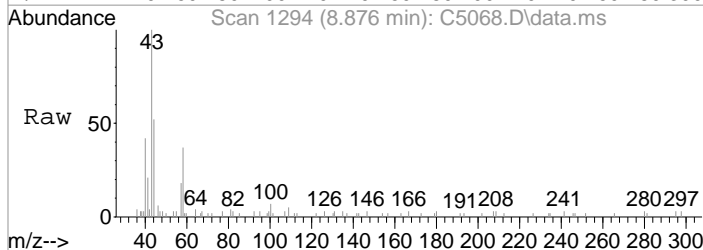
#71  
 Tetrachloroethene  
 Concen: 0.84 ug/L  
 RT: 8.680 min Scan# 1262  
 Delta R.T. 0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

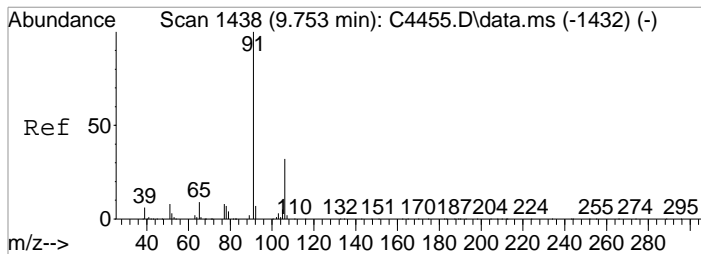
Tgt Ion	Resp	Lower	Upper
164	1547		
164	100		
166	93.7	108.0	148.0#
129	62.0	71.6	111.6#
131	78.5	67.7	107.7



#72  
 2-Hexanone  
 Concen: 0.43 ug/L  
 RT: 8.876 min Scan# 1294  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

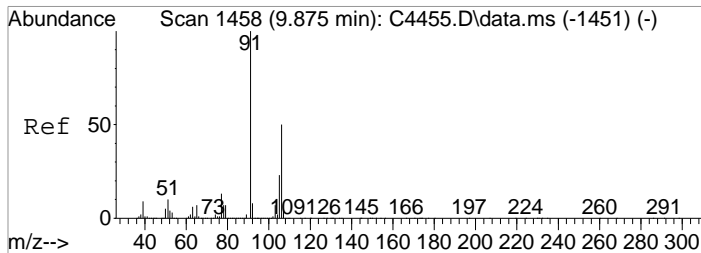
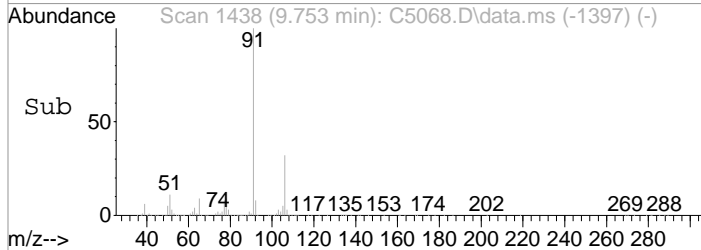
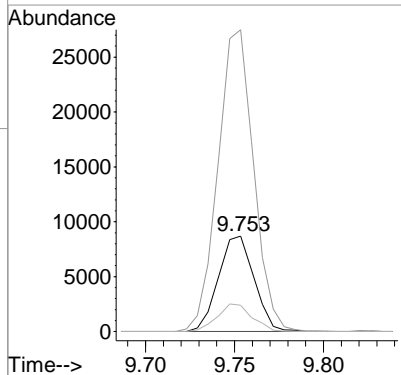
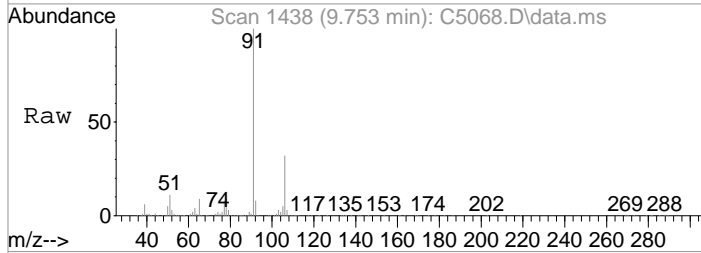
Tgt Ion	Resp	Lower	Upper
43	803		
43	100		
58	36.5	32.2	72.2
100	7.4	0.0	32.9





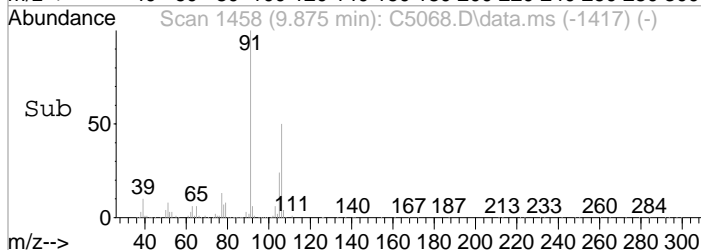
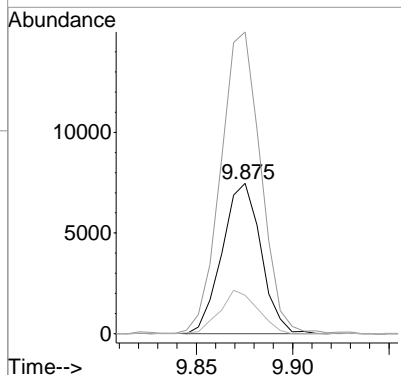
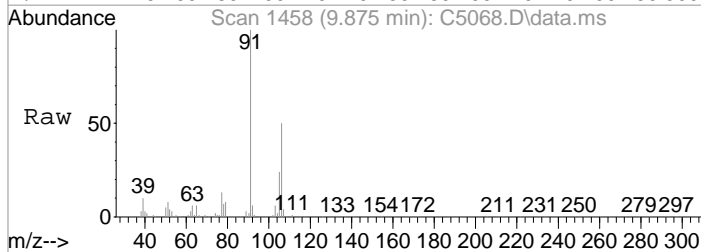
#79  
 Ethylbenzene  
 Concen: 3.80 ug/L  
 RT: 9.753 min Scan# 1438  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

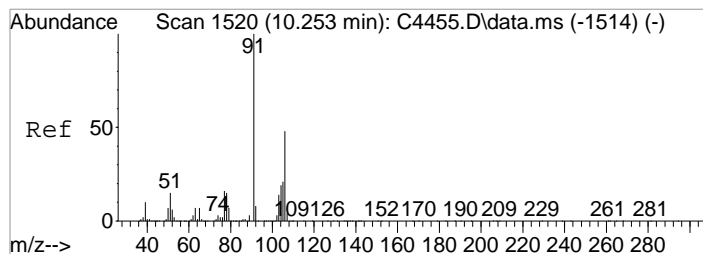
Tgt Ion	106	Resp:	12133
Ion Ratio	Lower	Upper	
106	100		
91	316.5	295.6	335.6
65	27.5	8.0	48.0



#80  
 (m+p)Xylene  
 Concen: 2.62 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

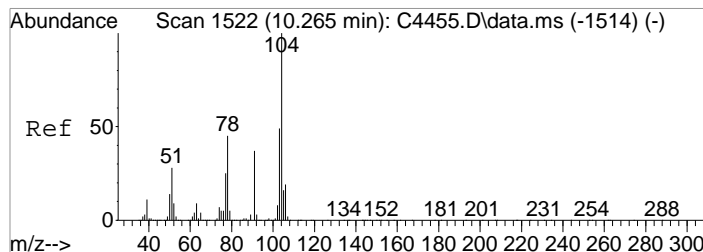
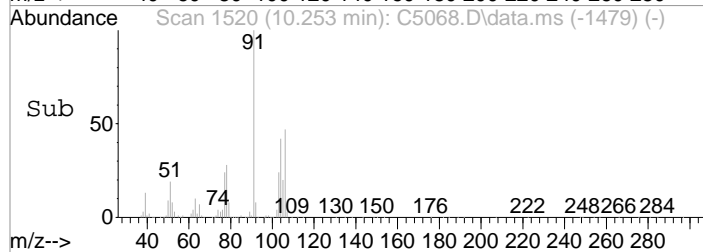
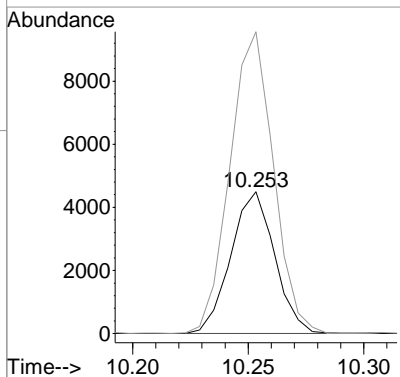
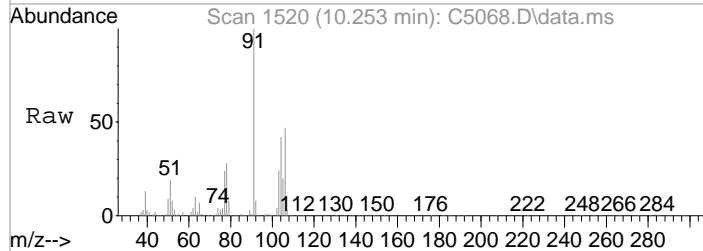
Tgt Ion	106	Resp:	10498
Ion Ratio	Lower	Upper	
106	100		
91	200.9	180.9	220.9
77	25.6	5.7	45.7





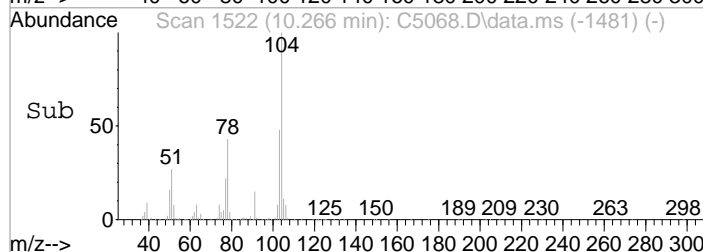
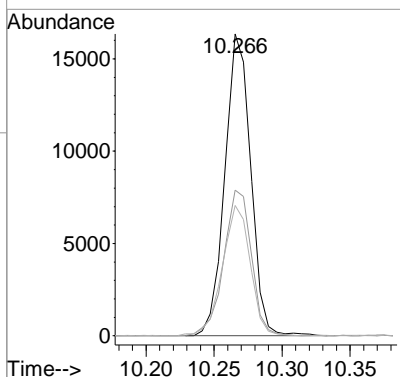
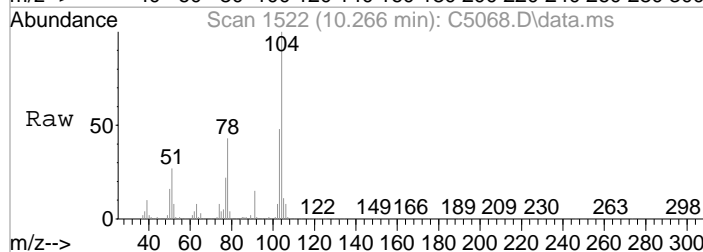
#81  
 o-Xylene  
 Concen: 1.50 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

Tgt Ion	Resp	Lower	Upper
106	5937		
106	100		
91	212.7	187.6	227.6

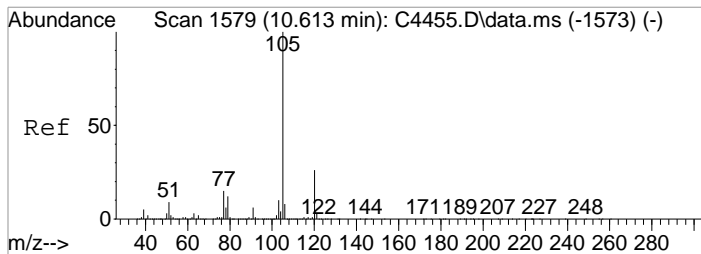


#82  
 Styrene  
 Concen: 3.15 ug/L  
 RT: 10.266 min Scan# 1522  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

Tgt Ion	Resp	Lower	Upper
104	21567		
104	100		
103	48.2	29.2	69.2
78	43.1	25.0	65.0

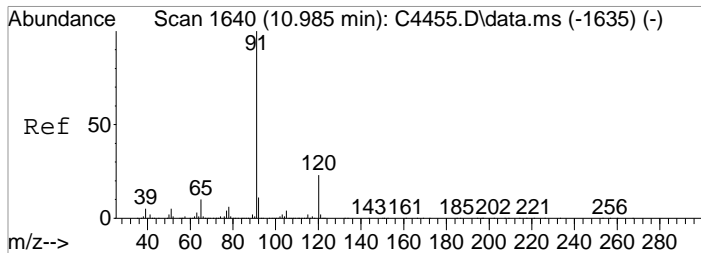
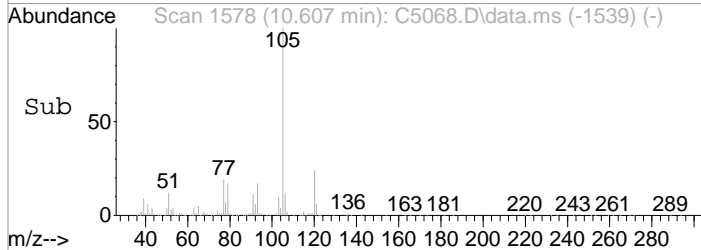
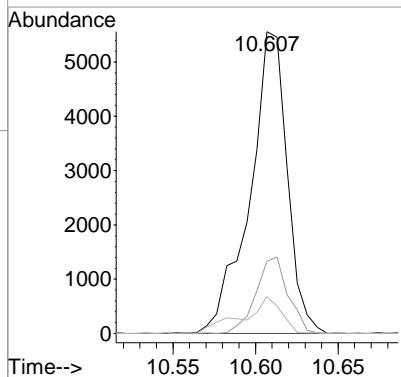
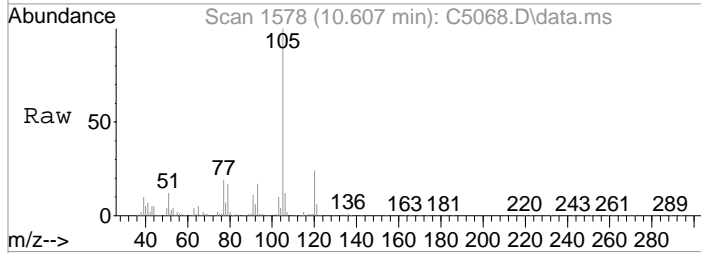






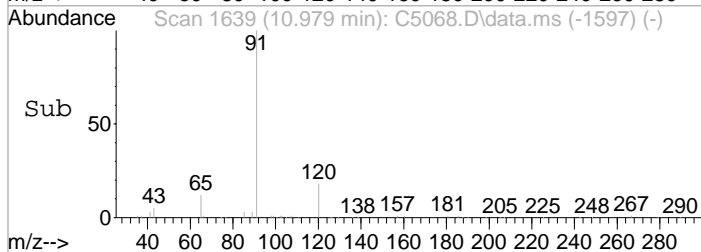
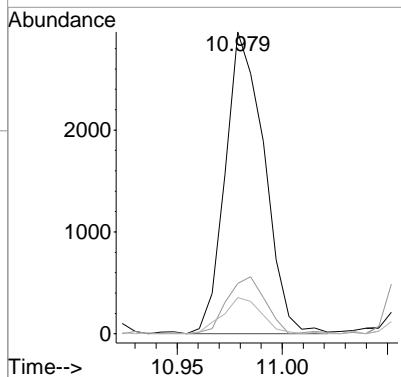
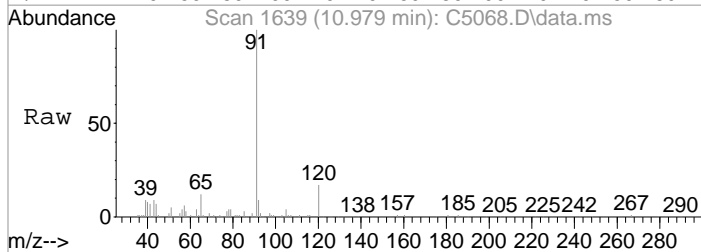
#84  
 Isopropylbenzene  
 Concen: 0.86 ug/L  
 RT: 10.607 min Scan# 1578  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

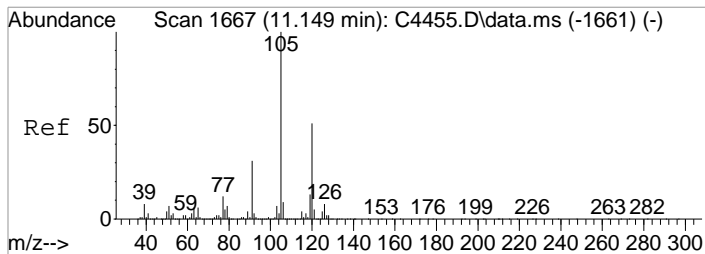
Tgt Ion	Ion	Ratio	Lower	Upper
105	105	100		
120	120	23.8	6.2	46.2
106	106	12.2	0.0	28.5



#91  
 n-Propylbenzene  
 Concen: 0.39 ug/L  
 RT: 10.979 min Scan# 1639  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

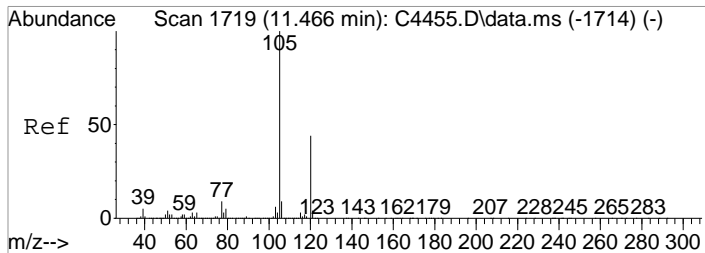
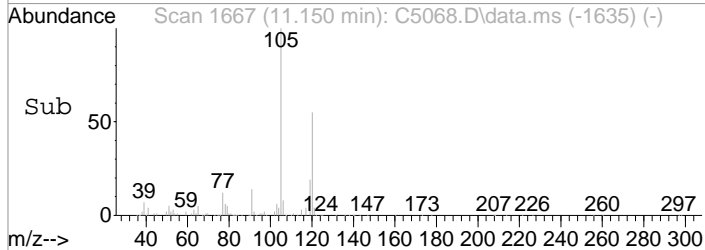
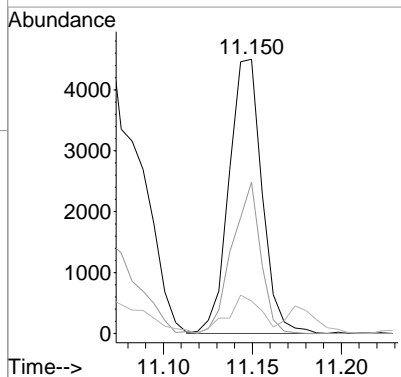
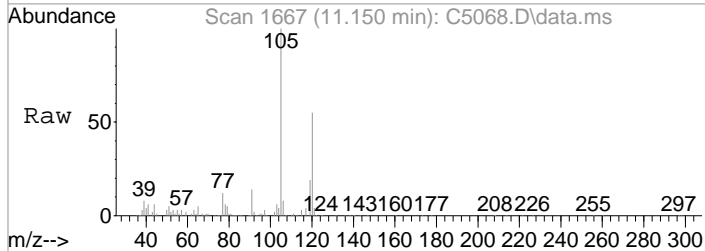
Tgt Ion	Ion	Ratio	Lower	Upper
91	91	100		
120	120	16.7	3.2	43.2
65	65	12.0	0.0	30.2





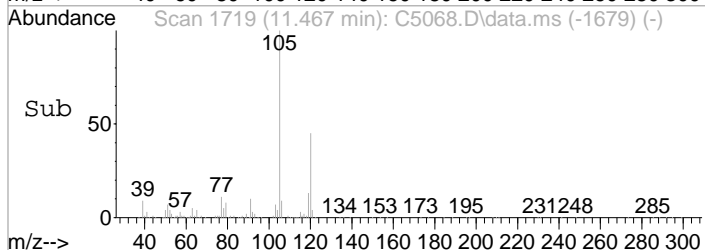
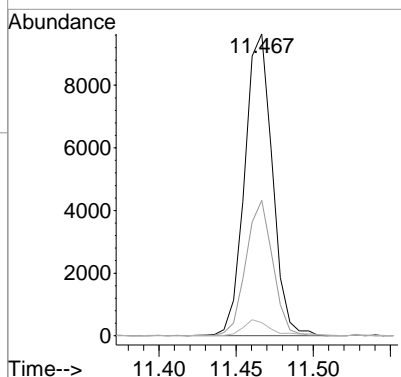
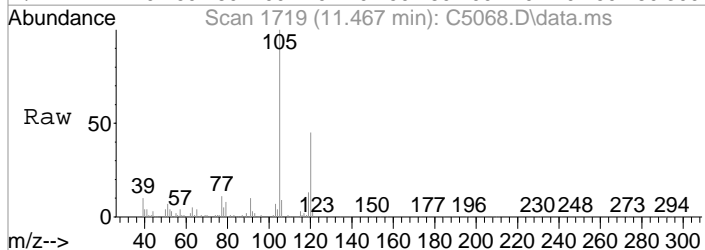
#94  
 1,3,5-Trimethylbenzene  
 Concen: 0.80 ug/L  
 RT: 11.150 min Scan# 1667  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

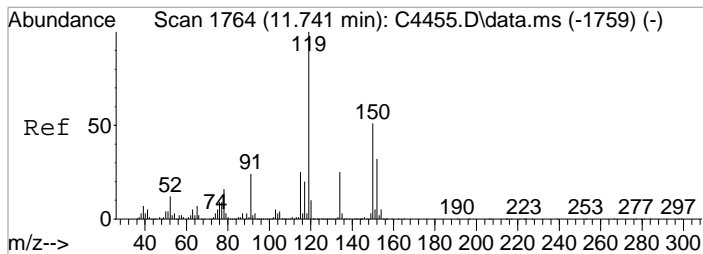
Tgt Ion	105	120	77	Resp:	5805	Lower	Upper
Ion Ratio	100	55.2	11.8			30.5	70.5
						0.0	32.4



#96  
 1,2,4-Trimethylbenzene  
 Concen: 1.64 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

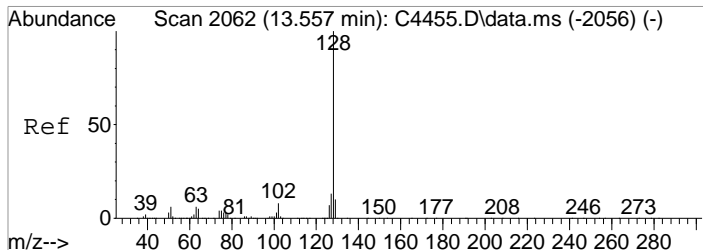
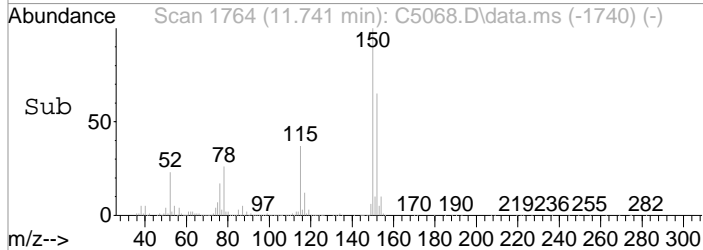
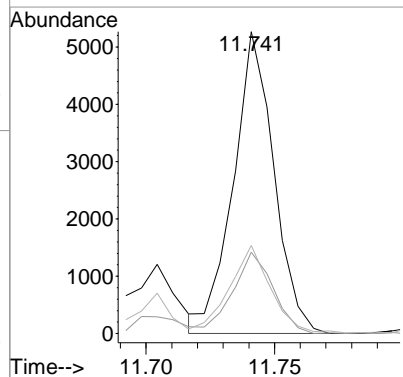
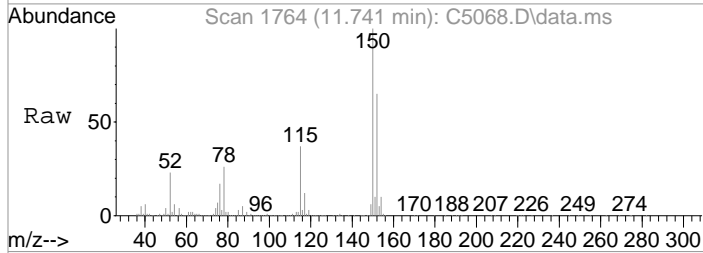
Tgt Ion	105	120	65	Resp:	12035	Lower	Upper
Ion Ratio	100	44.8	4.4			26.3	66.3
						0.0	24.4





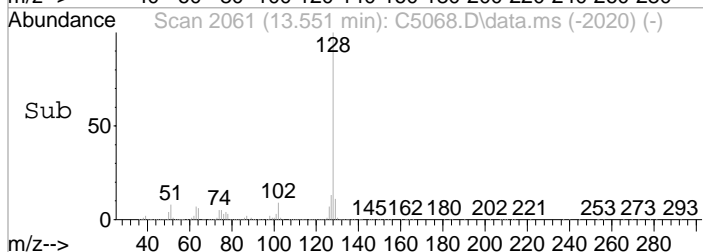
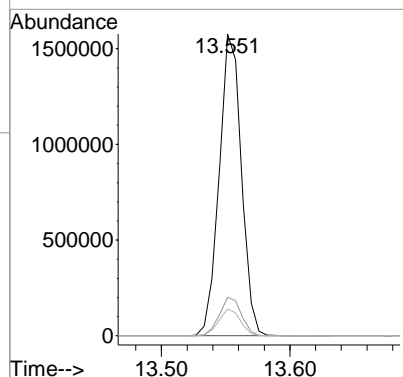
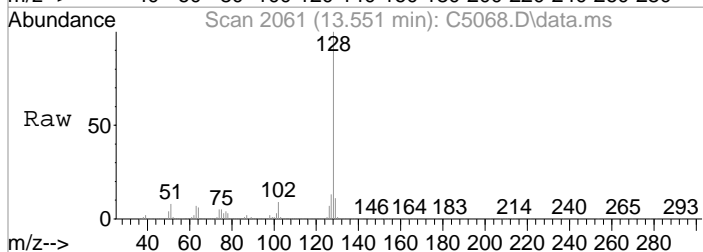
#98  
 p-Isopropyltoluene  
 Concen: 0.73 ug/L  
 RT: 11.741 min Scan# 1764  
 Delta R.T. 0.000 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

Tgt Ion	Resp	Lower	Upper
119	5795		
134	26.9	4.9	44.9
91	29.1	3.5	43.5



#107  
 Naphthalen  
 Concen: 238.53 ug/L  
 RT: 13.551 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5068.D  
 Acq: 22 Feb 2018 10:26 pm

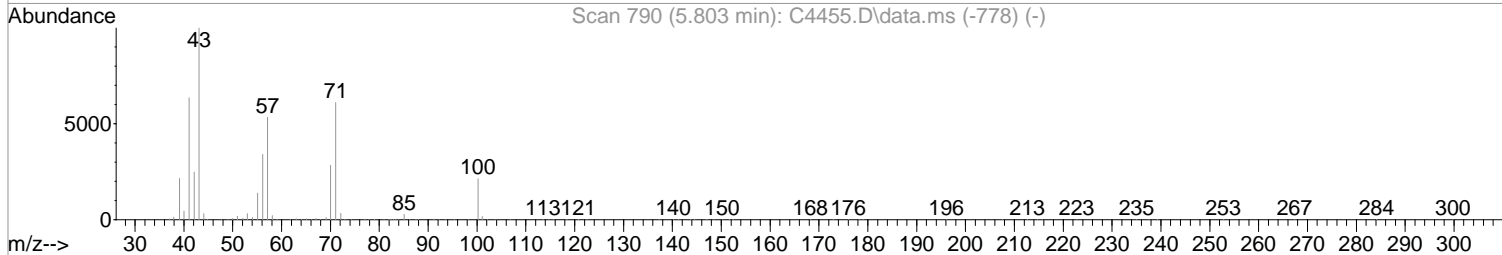
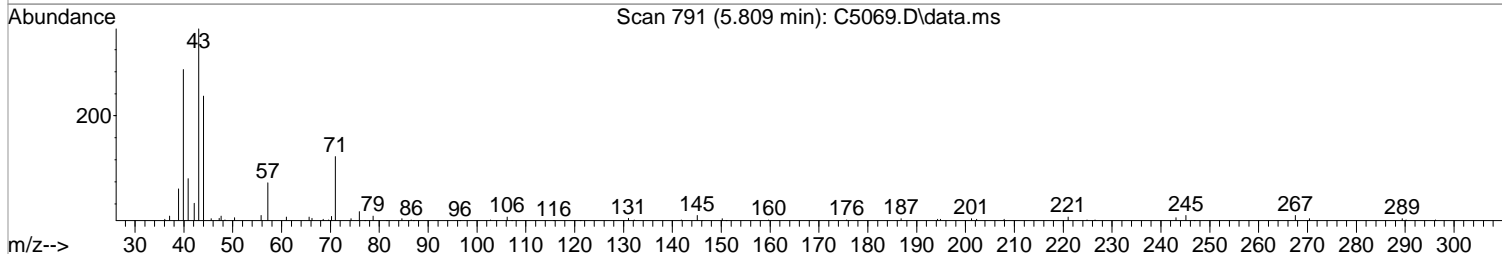
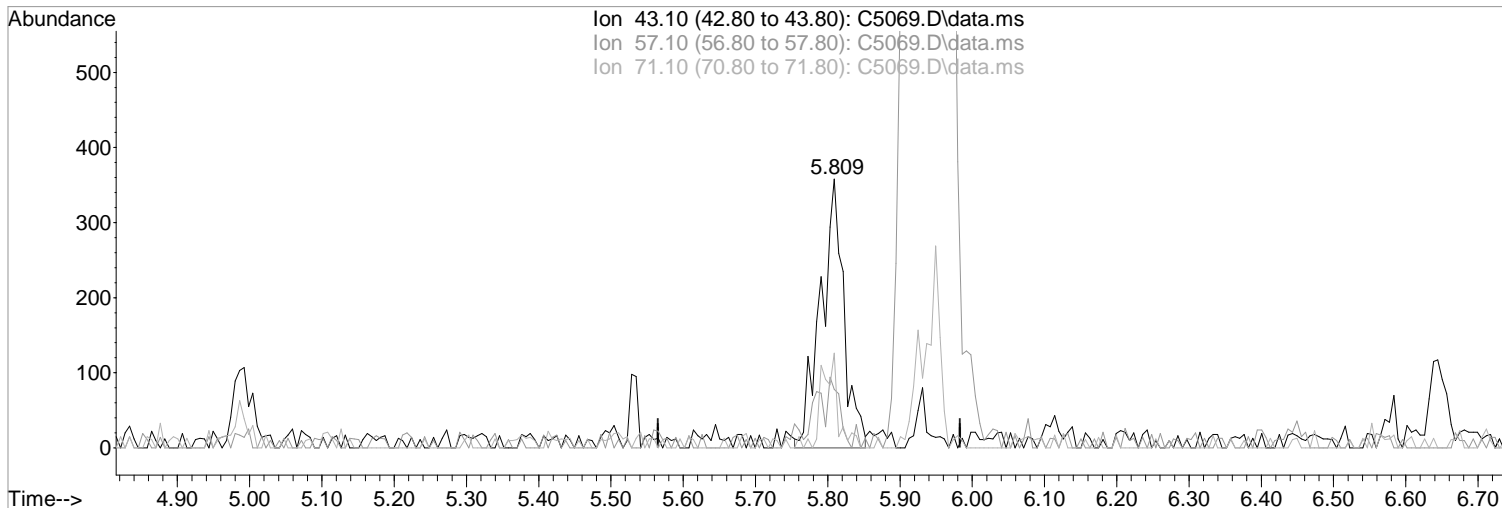
Tgt Ion	Resp	Lower	Upper
128	1887816		
127	12.8	0.0	33.4
102	8.9	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5069.D  
Acq On : 22 Feb 2018 10:49 pm  
Operator : K.Ruest  
Sample : R1801453-011|1.01  
Misc : DAY 8260 T4  
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:37:06 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(51) n-Heptane  
5.809min (+0.007) 0.33 ug/L m  
response 796

Manual Integration:  
After  
Peak not found.

Ion	Exp%	Act%
43.10	100	100
57.10	53.30	21.79#
71.10	60.90	35.20#
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5069.D  
 Acq On : 22 Feb 2018 10:49 pm  
 Operator : K.Ruest  
 Sample : R1801453-011|1.01 Inst : MSVOA14  
 Misc : DAY 8260 T4  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 23 16:14:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

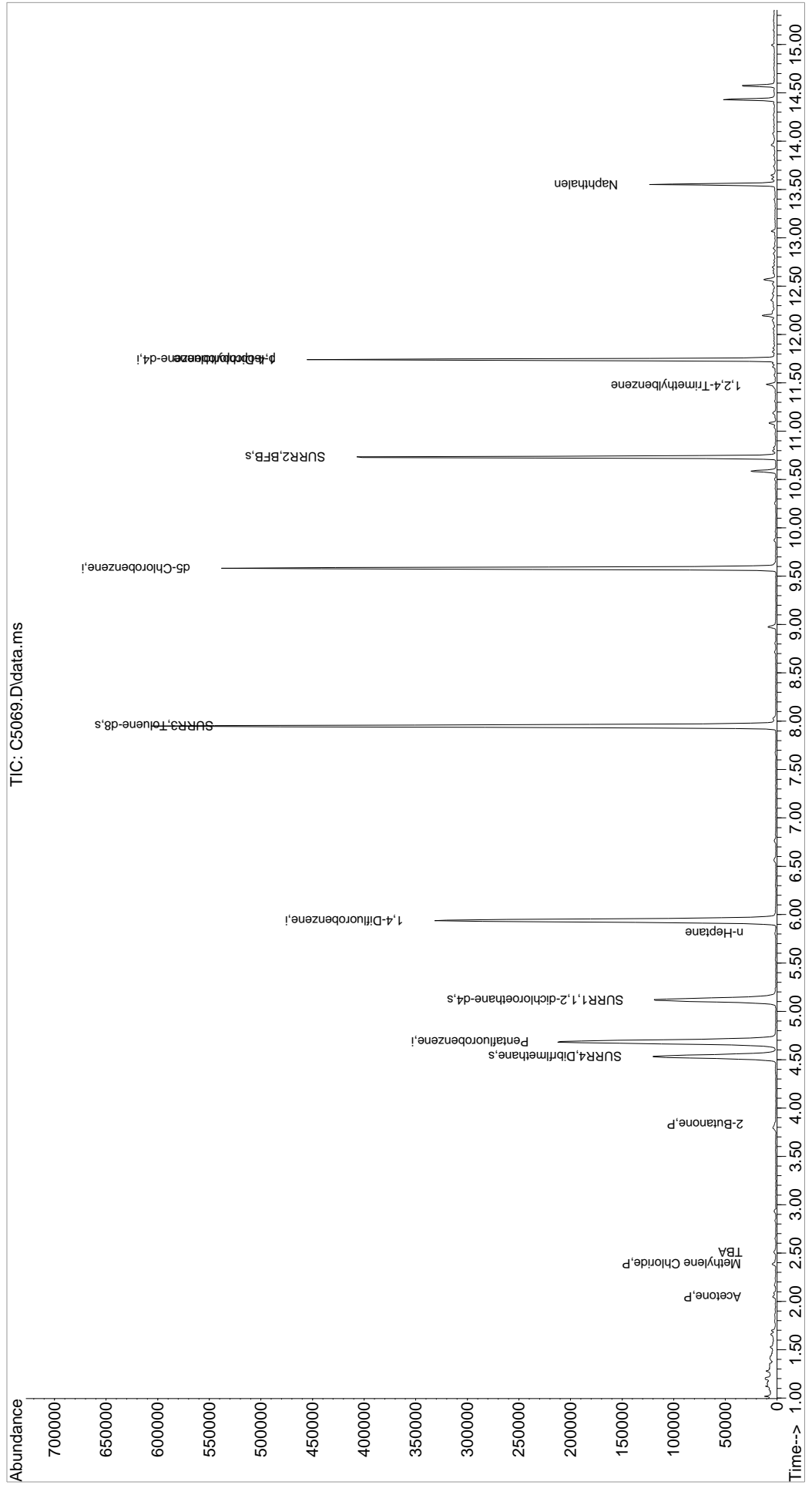
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	209664	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	317999	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	237171	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	80095	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	95906	48.43	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	96.86%		
47) SURR1,1,2-dichloroetha...	5.114	65	120455	50.78	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	101.56%		
64) SURR3,Toluene-d8	7.949	98	368327	48.64	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	97.28%		
69) SURR2,BFB	10.735	95	103482	33.87	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	67.74%		
Target Compounds						
15) Acetone	2.048	43	3390	3.57	ug/L	95
22) Methylene Chloride	2.389	84	1340	0.61	ug/L #	67
23) TBA	2.511	59	1426	3.69	ug/L	86
34) 2-Butanone	3.834	43	1023	0.80	ug/L	77
51) n-Heptane	5.809	43	796m	0.33	ug/L	
96) 1,2,4-Trimethylbenzene	11.467	105	954	0.21	ug/L	96
98) p-Isopropyltoluene	11.741	119	3996	0.79	ug/L	90
107) Naphthalen	13.552	128	68226	13.57	ug/L	97

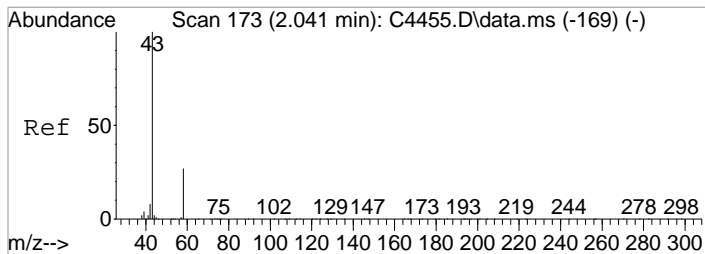
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5069.D  
 Acq On : 22 Feb 2018 10:49 pm  
 Operator : K.Ruest  
 Sample : R1801453-011|1.01  
 Misc : DAY 8260 T4  
 ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA14

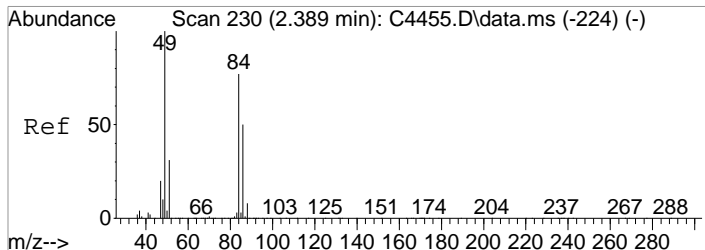
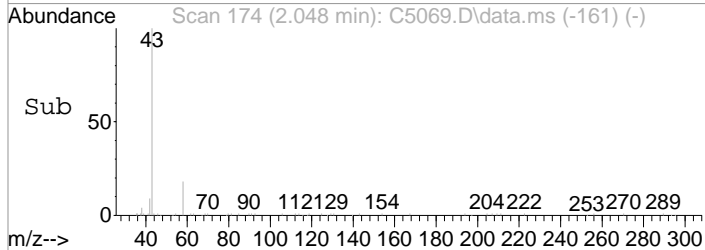
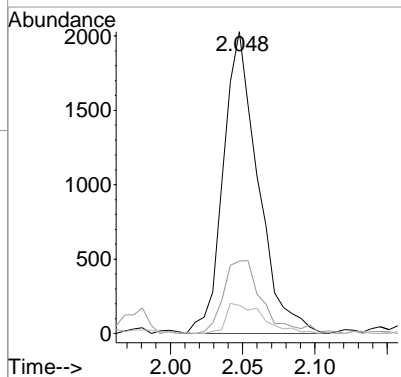
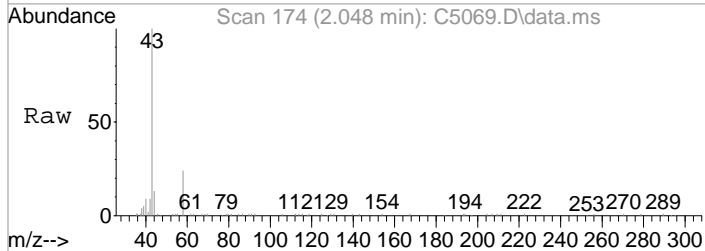
Quant Time: Feb 23 16:14:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





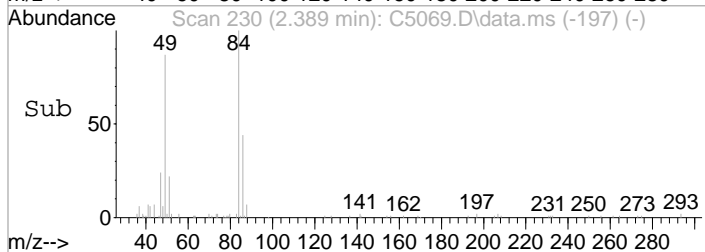
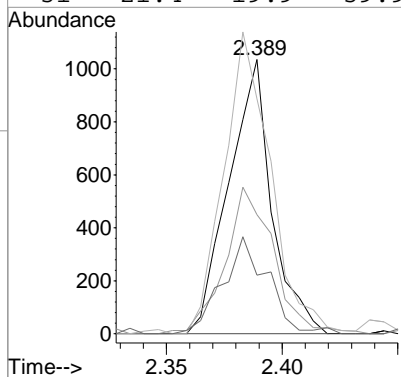
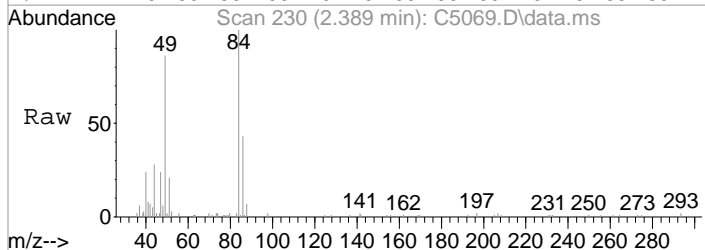
#15  
 Acetone  
 Concen: 3.57 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.007 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

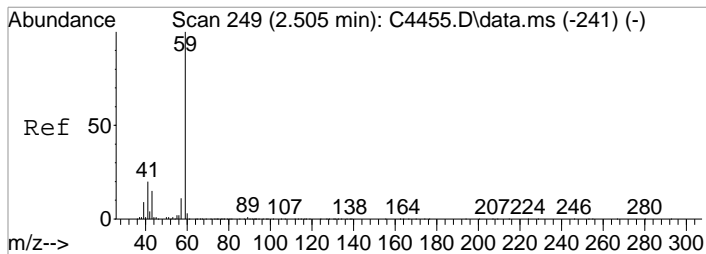
Tgt Ion	43	58	42	Resp	3390	Lower	Upper
Ion Ratio	100	23.9	9.3			7.1	47.1
						0.0	28.6



#22  
 Methylene Chloride  
 Concen: 0.61 ug/L  
 RT: 2.389 min Scan# 230  
 Delta R.T. 0.000 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

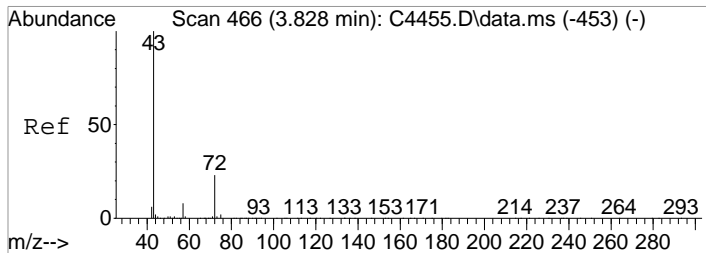
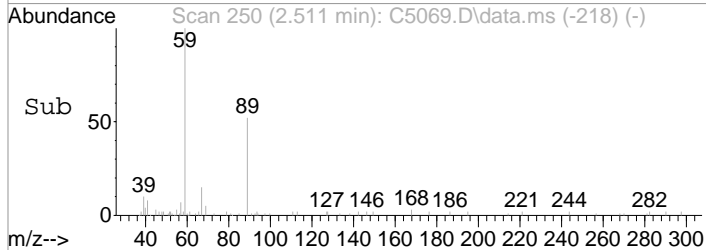
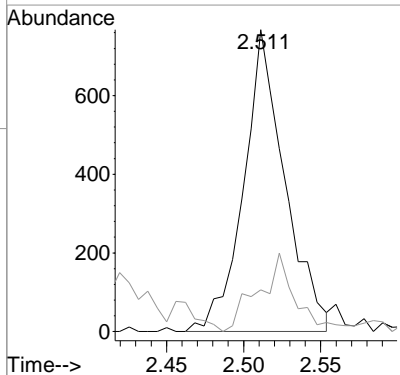
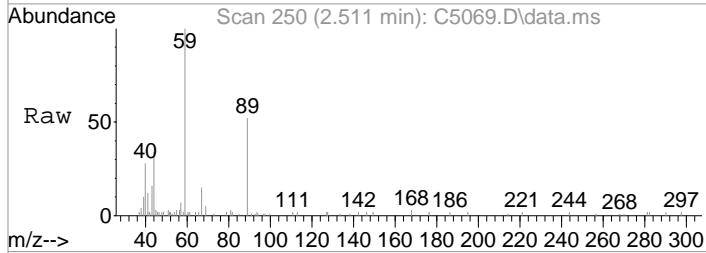
Tgt Ion	84	86	49	51	Resp	1340	Lower	Upper
Ion Ratio	100	44.5	85.6	21.4			43.9	83.9
							109.1	149.1#
							19.9	59.9





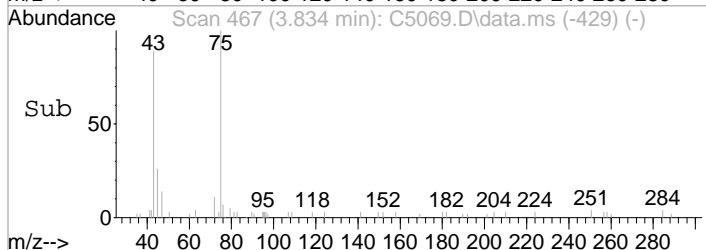
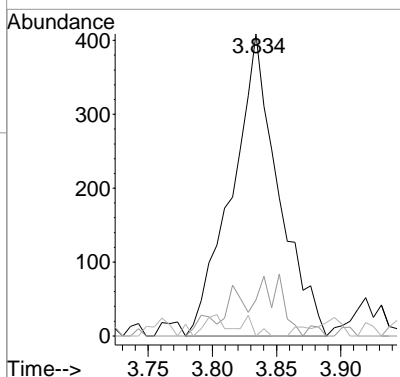
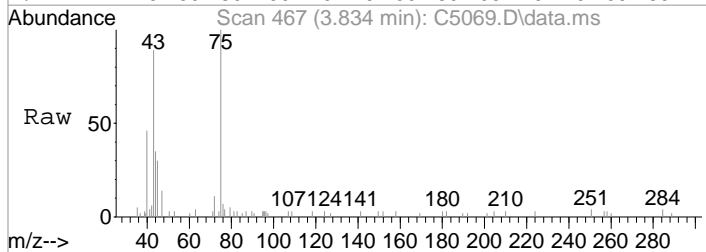
#23  
 TBA  
 Concen: 3.69 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
59	1426		
41	13.8	0.3	40.3

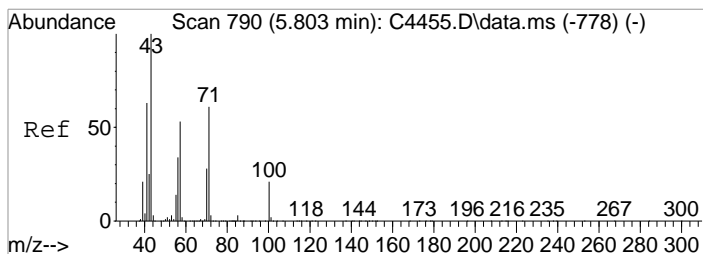


#34  
 2-Butanone  
 Concen: 0.80 ug/L  
 RT: 3.834 min Scan# 467  
 Delta R.T. 0.007 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
43	1023		
72	12.0	3.3	43.3
57	0.0	0.0	28.0

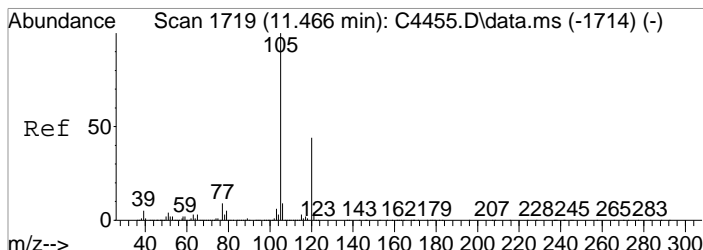
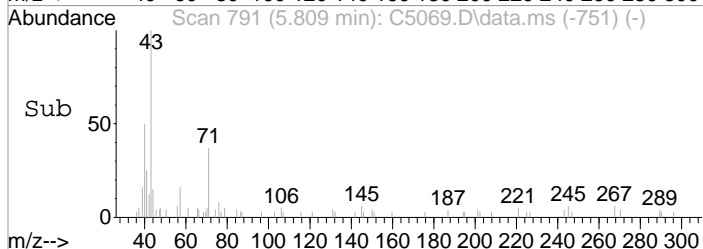
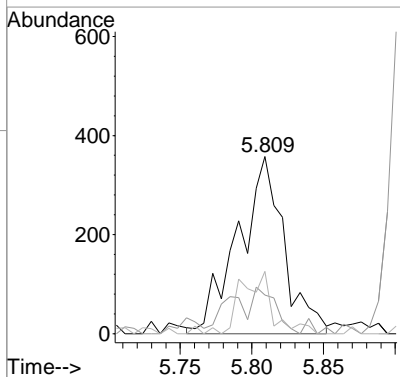
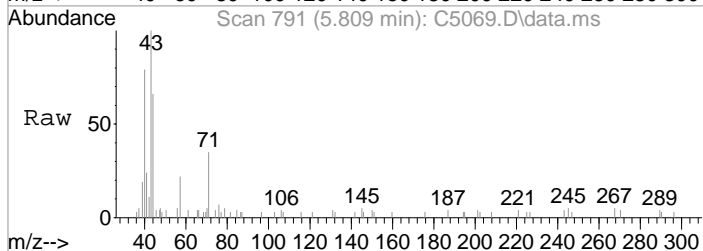






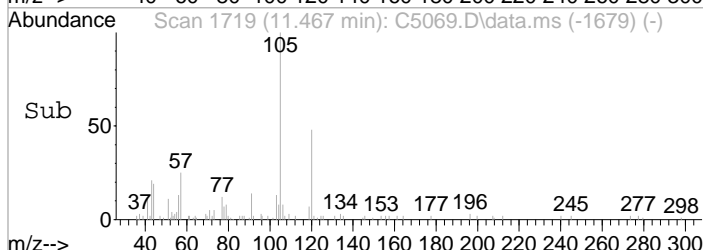
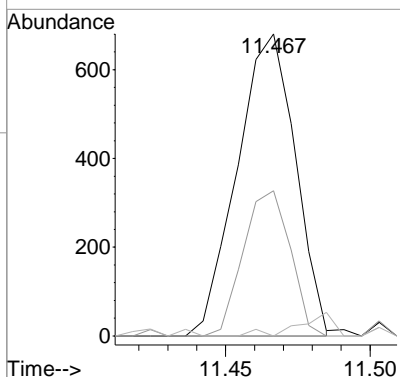
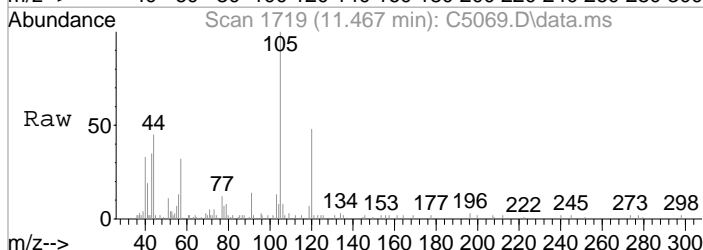
#51  
 n-Heptane  
 Concen: 0.33 ug/L m  
 RT: 5.809 min Scan# 791  
 Delta R.T. 0.007 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

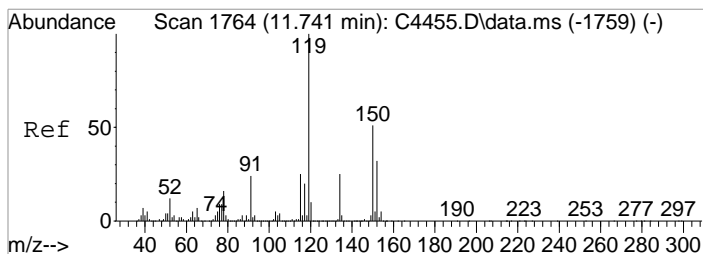
Tgt Ion	43	Resp	796
Ion Ratio	Lower	Upper	
43	100		
57	21.8	33.3	73.3#
71	35.2	40.9	80.9#



#96  
 1,2,4-Trimethylbenzene  
 Concen: 0.21 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

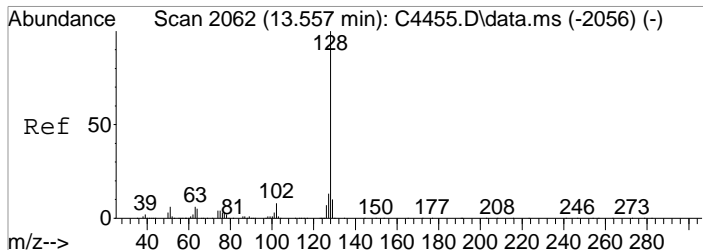
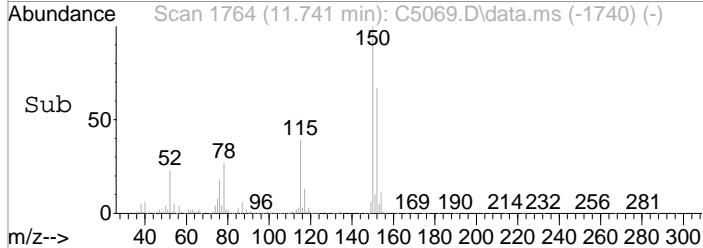
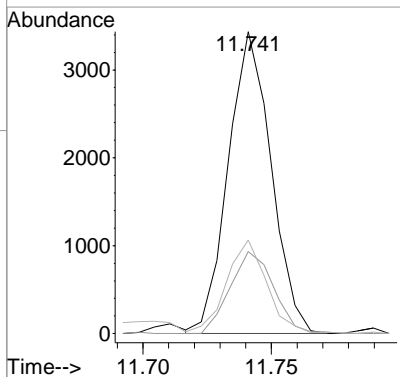
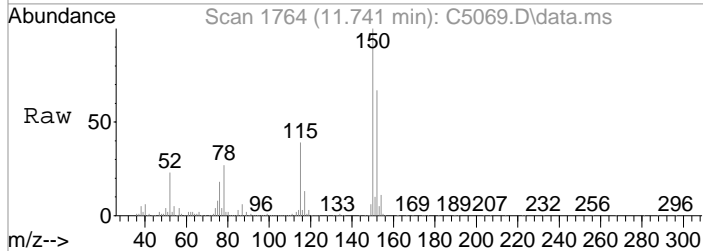
Tgt Ion	105	Resp	954
Ion Ratio	Lower	Upper	
105	100		
120	48.0	26.3	66.3
65	0.0	0.0	24.4





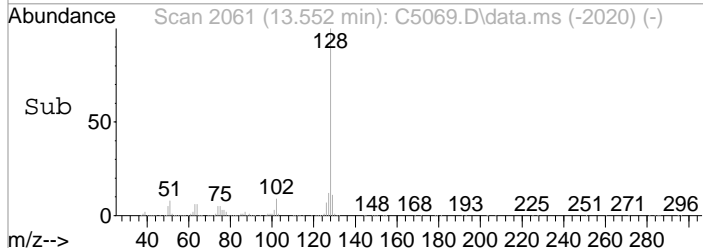
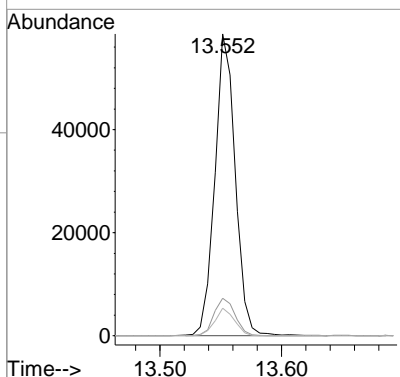
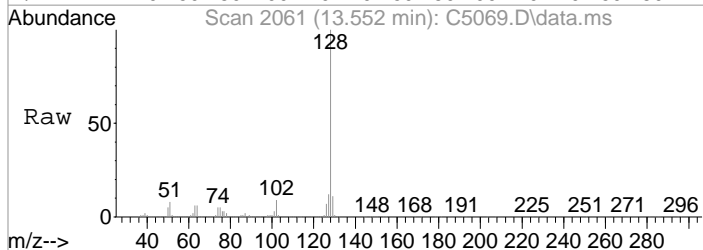
#98  
 p-Isopropyltoluene  
 Concen: 0.79 ug/L  
 RT: 11.741 min Scan# 1764  
 Delta R.T. 0.000 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
119	3996		
134	27.1	4.9	44.9
91	30.9	3.5	43.5



#107  
 Naphthalen  
 Concen: 13.57 ug/L  
 RT: 13.552 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5069.D  
 Acq: 22 Feb 2018 10:49 pm

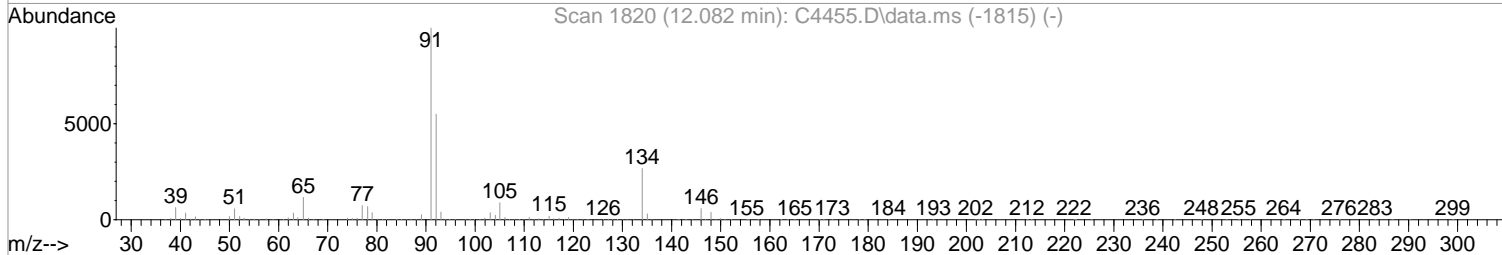
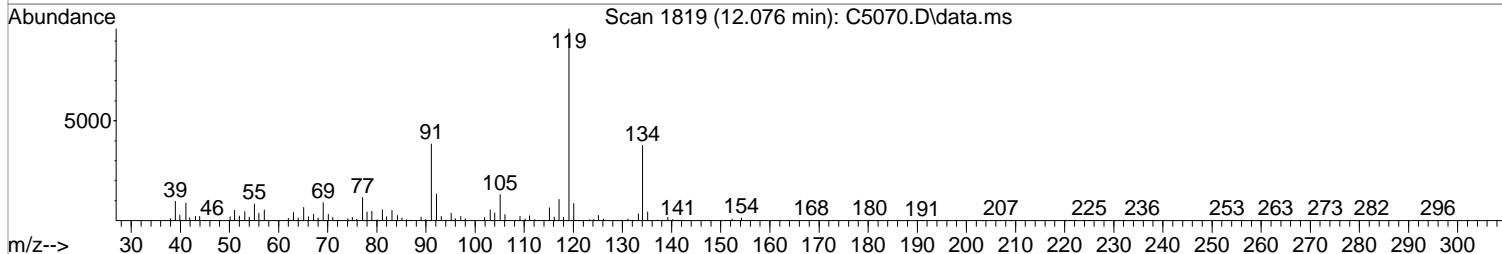
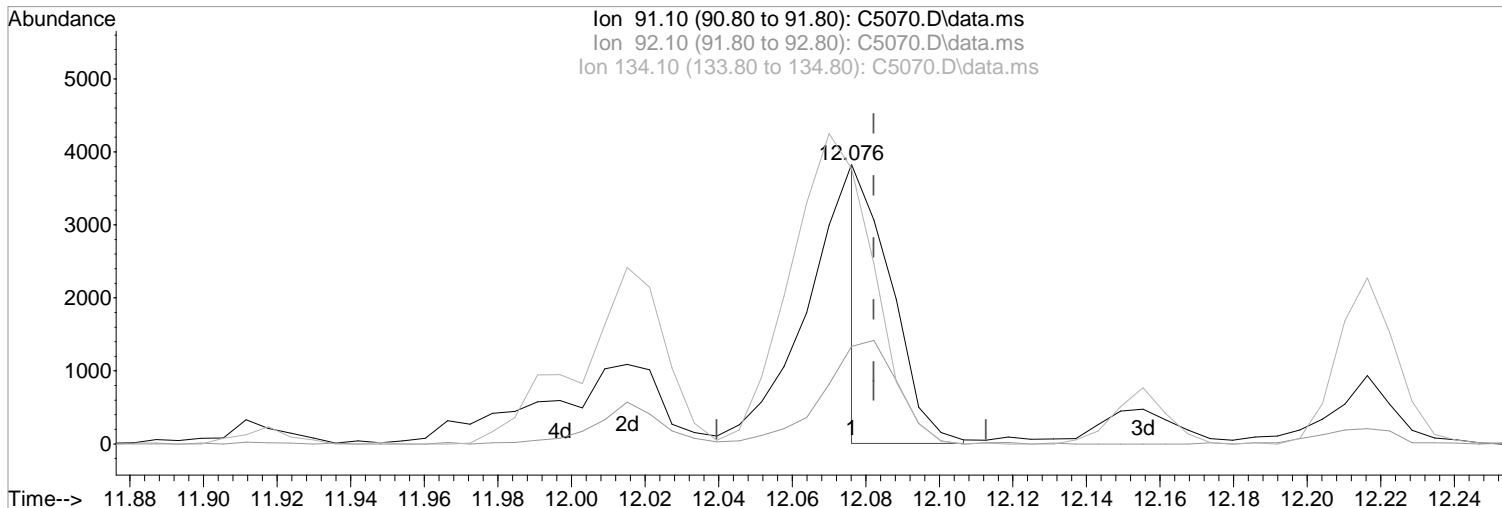
Tgt Ion	Resp	Lower	Upper
128	68226		
127	12.5	0.0	33.4
102	9.1	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5070.D  
Acq On : 22 Feb 2018 11:11 pm  
Operator : K.Ruest  
Sample : R1801453-012|0.74  
Misc : DAY 8260 T4  
ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:41:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(101) n-Butylbenzene  
12.076min (-0.006) 0.38 ug/L m  
response 2088

Manual Integration:  
After  
Poor integration.

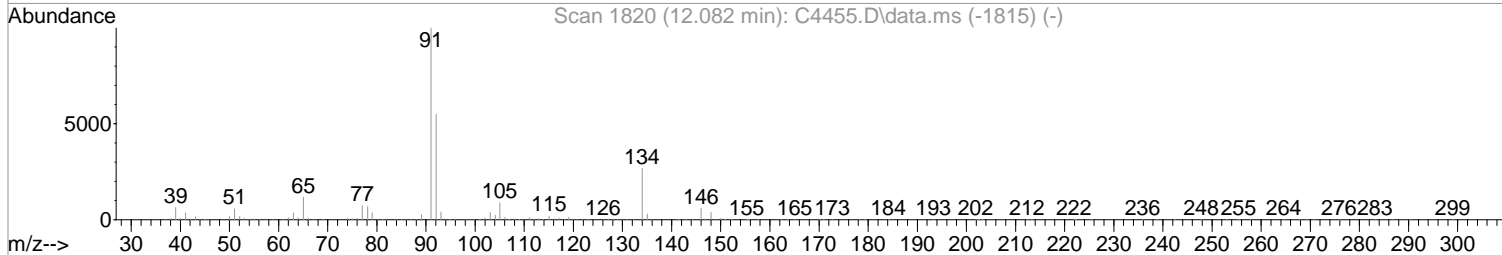
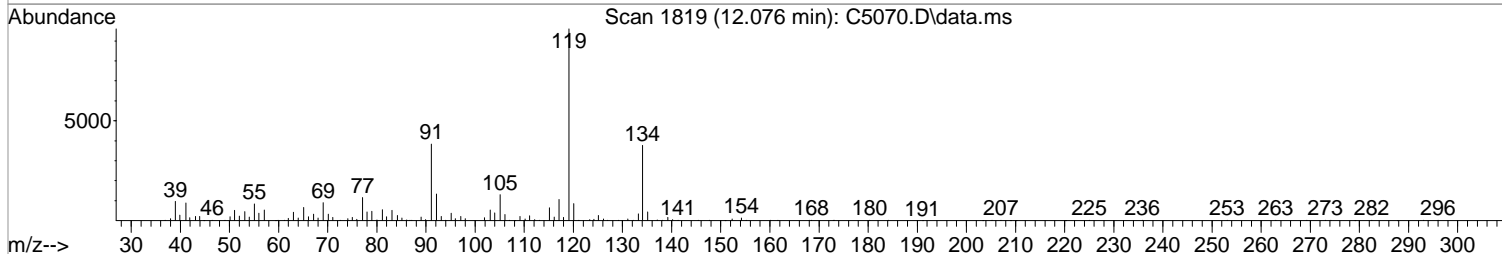
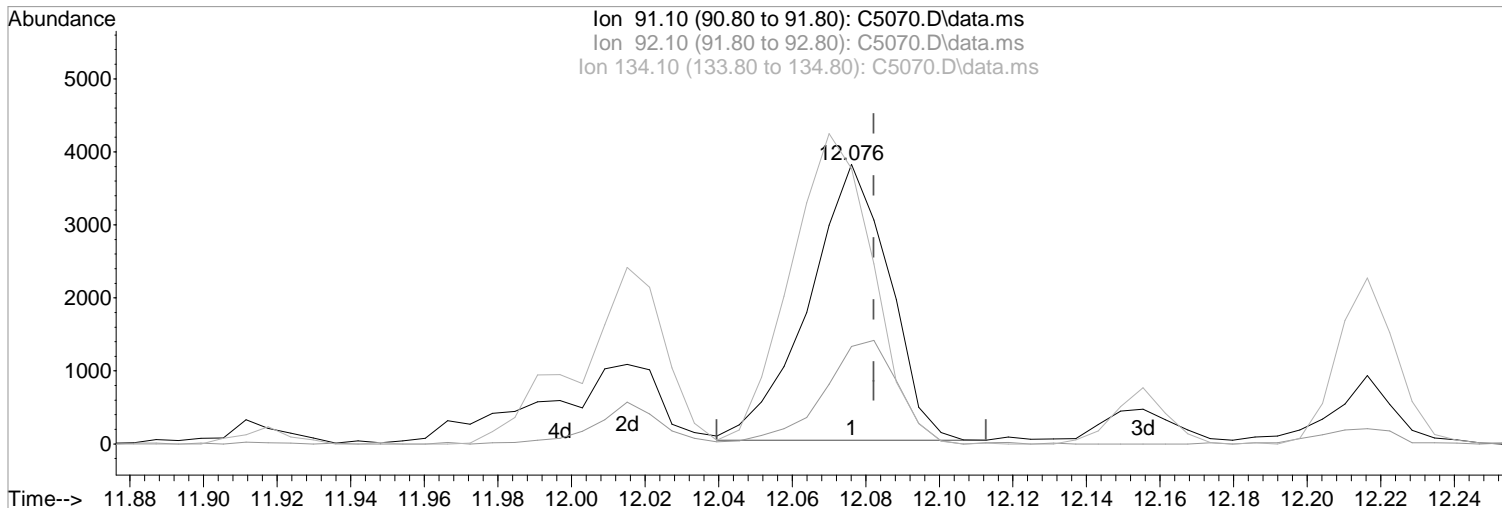
Ion	Exp%	Act%
91.10	100	100
92.10	54.90	34.88#
134.10	26.70	98.46#
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5070.D  
Acq On : 22 Feb 2018 11:11 pm  
Operator : K.Ruest  
Sample : R1801453-012|0.74  
Misc : DAY 8260 T4  
ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:41:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(101) n-Butylbenzene  
12.076min (-0.006) 1.05 ug/L  
response 5744

Manual Integration:  
Before

Ion	Exp%	Act%
91.10	100	100
92.10	54.90	34.88#
134.10	26.70	98.46#
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5070.D  
 Acq On : 22 Feb 2018 11:11 pm  
 Operator : K.Ruest  
 Sample : R1801453-012|0.74 Inst : MSVOA14  
 Misc : DAY 8260 T4  
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 23 16:16:14 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

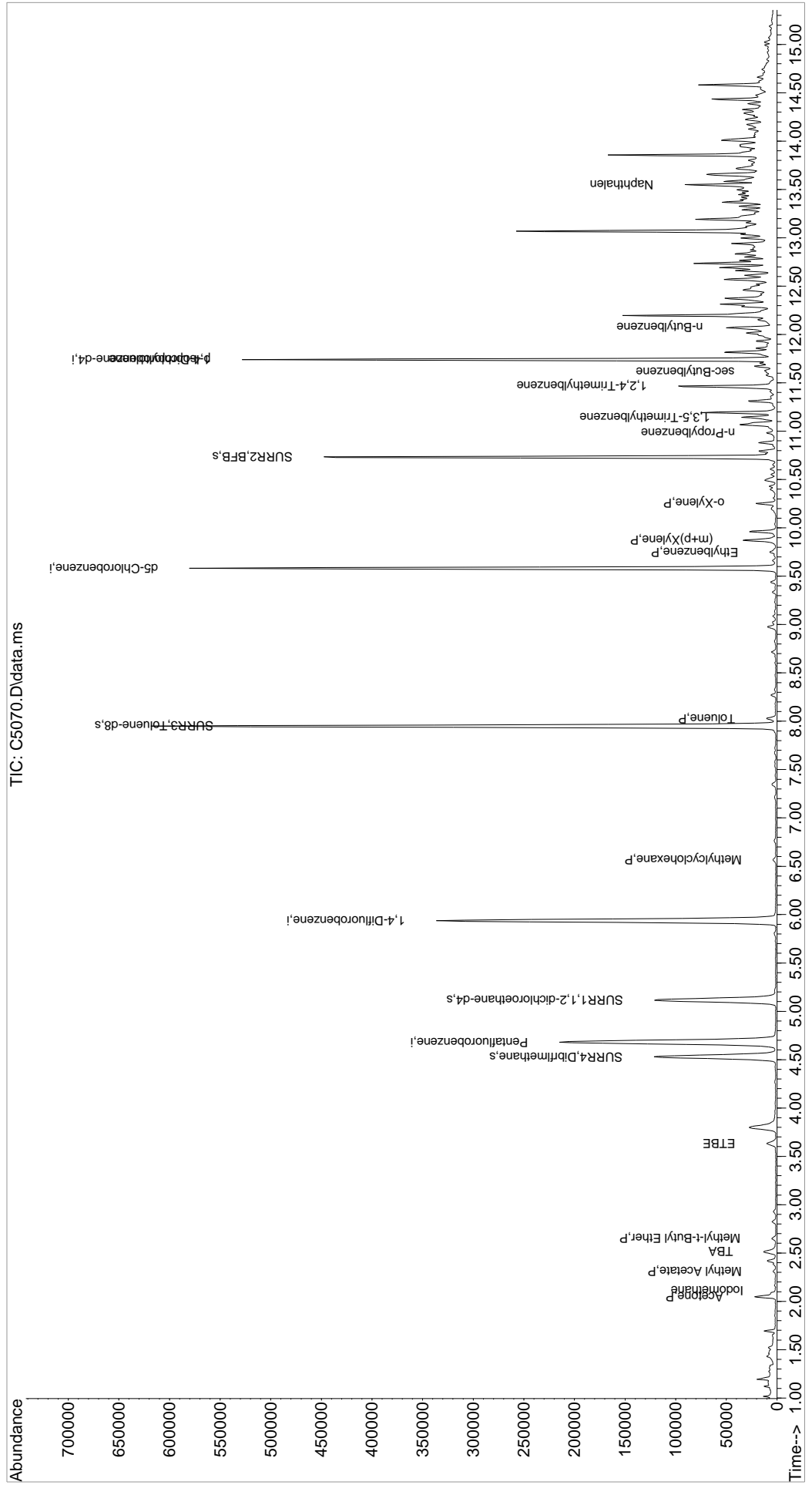
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.681	168	212314	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	322772	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	253066	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	94937	50.00	ug/L	0.00	
System Monitoring Compounds							
44) SURR4,Dibrflmethane	4.529	113	96547	48.03	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery =	96.06%			
47) SURR1,1,2-dichloroetha...	5.114	65	122045	50.69	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery =	101.38%			
64) SURR3,Toluene-d8	7.949	98	378146	49.20	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery =	98.40%			
69) SURR2,BFB	10.735	95	116757	37.65	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery =	75.30%			
Target Compounds							
15) Acetone	2.048	43	23378	24.30	ug/L	97	Qvalue
17) Iodomethane	2.109	142	281	2.55	ug/L	78	
21) Methyl Acetate	2.310	43	2593	1.42	ug/L	93	
23) TBA	2.517	59	10347	26.45	ug/L	78	
25) Methyl-t-Butyl Ether	2.651	73	2742	0.40	ug/L	76	
31) ETBE	3.633	59	8694	1.19	ug/L	97	
54) Methylcyclohexane	6.571	55	1117	0.36	ug/L	96	
65) Toluene	8.028	91	5652	0.61	ug/L	99	
79) Ethylbenzene	9.747	106	1222	0.42	ug/L	92	
80) (m+p)Xylene	9.875	106	7341	2.02	ug/L	88	
81) o-Xylene	10.253	106	3959	1.10	ug/L	96	
91) n-Propylbenzene	10.985	91	4639	0.62	ug/L	93	
94) 1,3,5-Trimethylbenzene	11.143	105	12756	2.35	ug/L	98	
96) 1,2,4-Trimethylbenzene	11.466	105	39295	7.13	ug/L	100	
97) sec-Butylbenzene	11.613	105	2523	0.36	ug/L	97	
98) p-Isopropyltoluene	11.741	119	3293	0.55	ug/L	95	
101) n-Butylbenzene	12.076	91	2088m	0.38	ug/L		
107) Naphthalen	13.551	128	28382	4.76	ug/L	99	

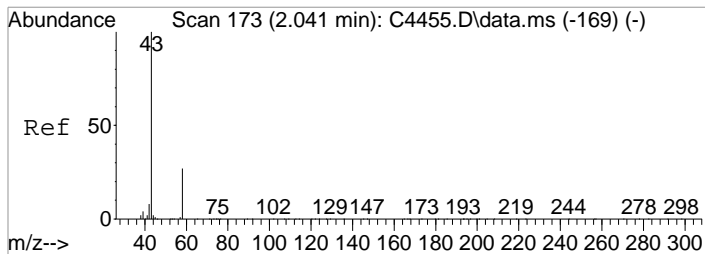
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5070.D  
 Acq On : 22 Feb 2018 11:11 pm  
 Operator : K.Ruest  
 Sample : R1801453-012|0.74  
 Misc : DAY 8260 T4  
 ALS Vial : 22 Sample Multiplier: 1

Inst : MSVOA14

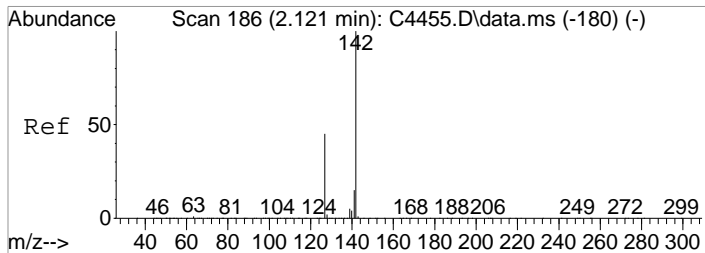
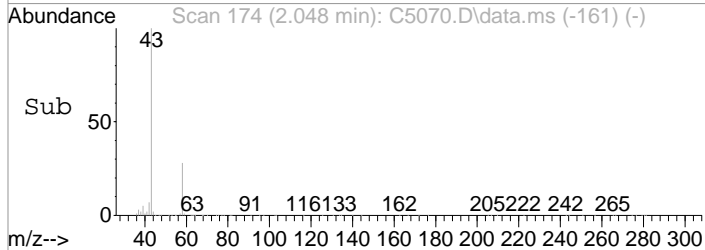
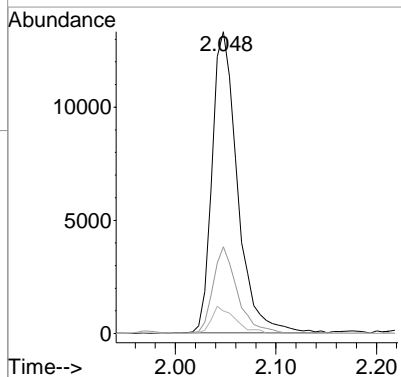
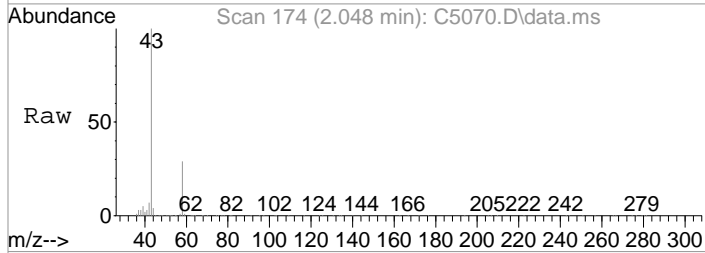
Quant Time: Feb 23 16:16:14 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





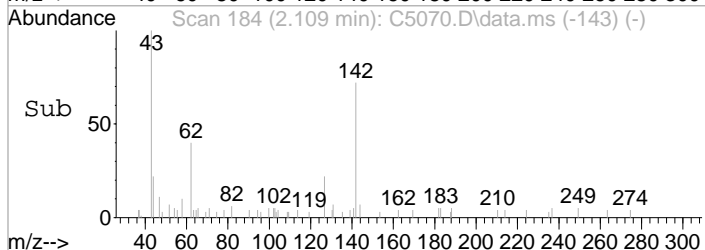
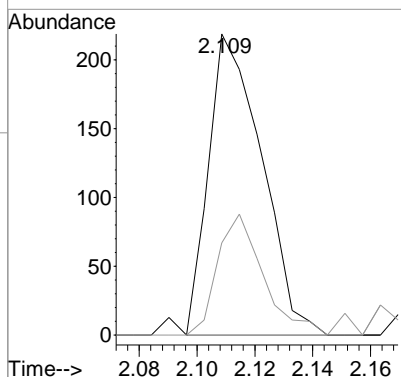
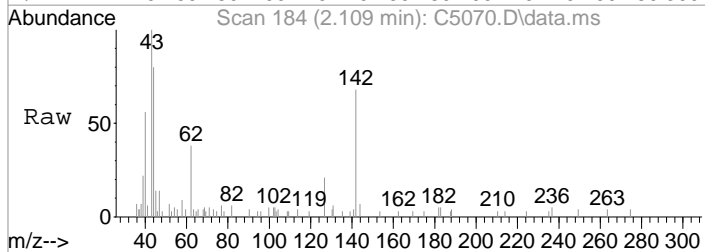
#15  
 Acetone  
 Concen: 24.30 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.007 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

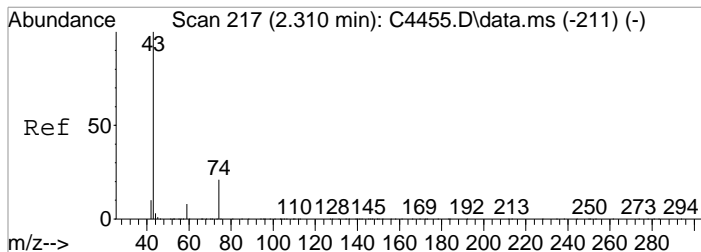
Tgt Ion	Resp	Lower	Upper
43	100		
58	28.8	7.1	47.1
42	7.5	0.0	28.6



#17  
 Iodomethane  
 Concen: 2.55 ug/L  
 RT: 2.109 min Scan# 184  
 Delta R.T. -0.011 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

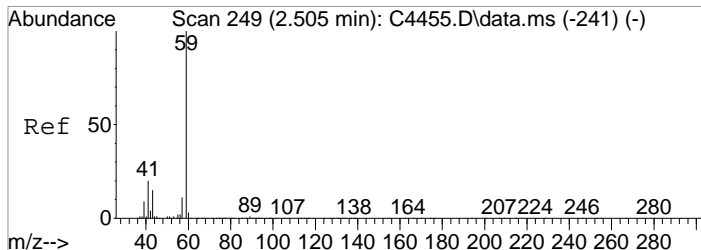
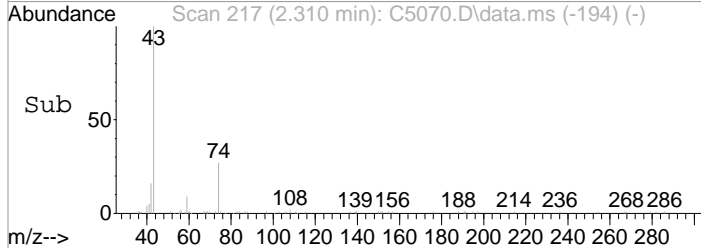
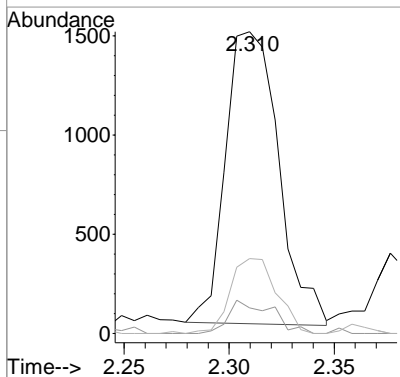
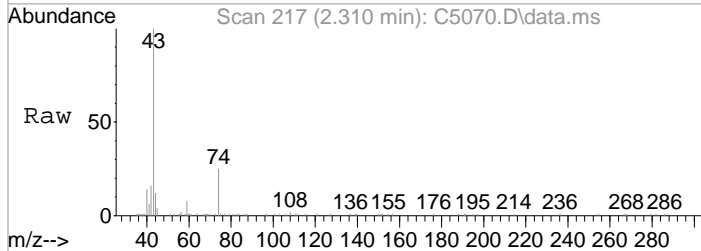
Tgt Ion	Resp	Lower	Upper
142	100		
127	30.6	24.8	64.8





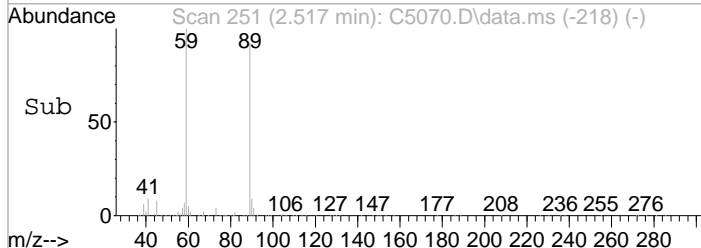
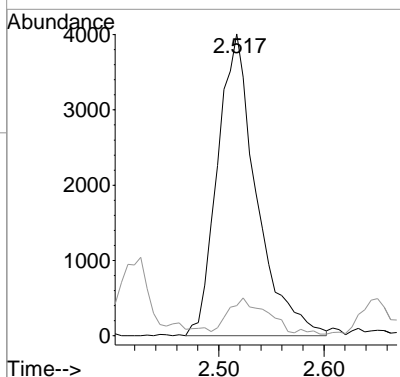
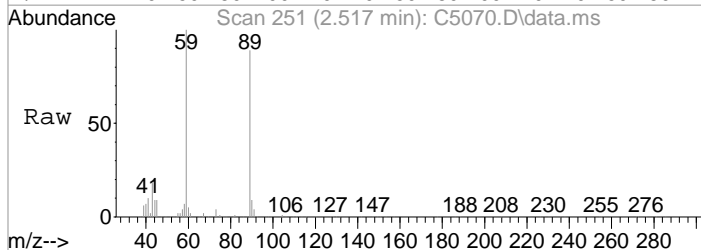
#21  
 Methyl Acetate  
 Concen: 1.42 ug/L  
 RT: 2.310 min Scan# 217  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

Tgt Ion	Resp	Lower	Upper
43	2593		
59	8.5	0.0	27.7
74	24.8	1.0	41.0

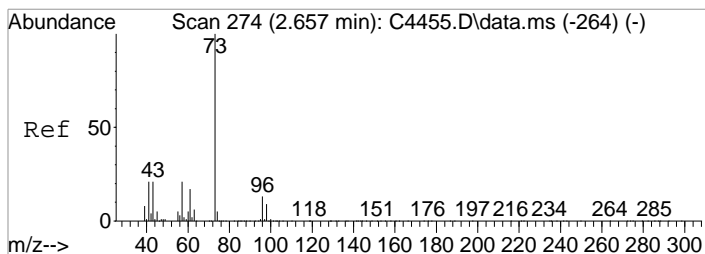


#23  
 TBA  
 Concen: 26.45 ug/L  
 RT: 2.517 min Scan# 251  
 Delta R.T. 0.012 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

Tgt Ion	Resp	Lower	Upper
59	10347		
41	10.0	0.3	40.3

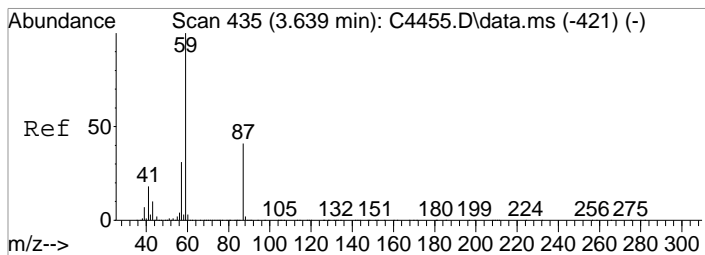
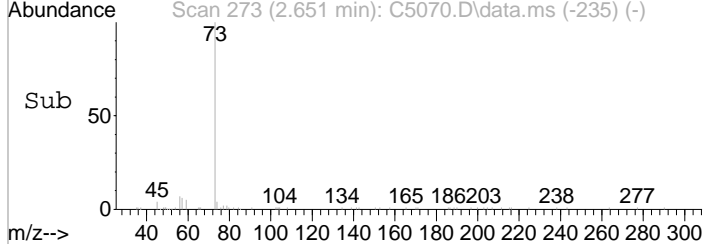
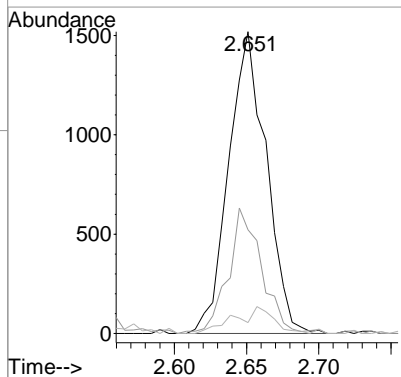
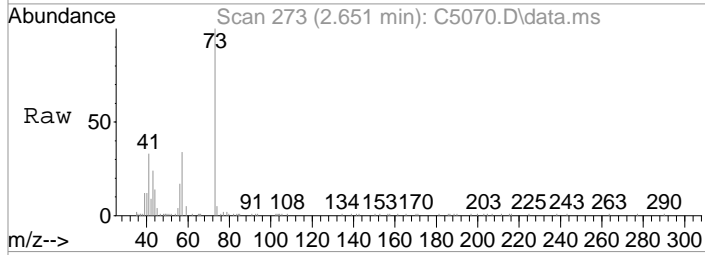






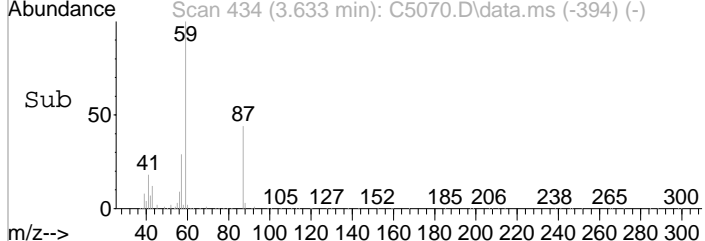
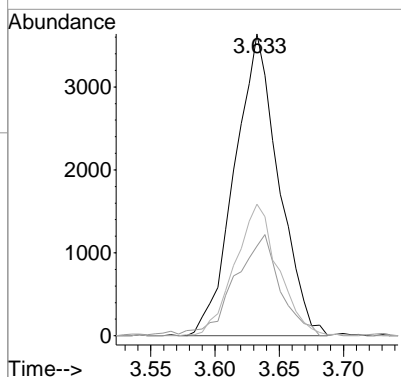
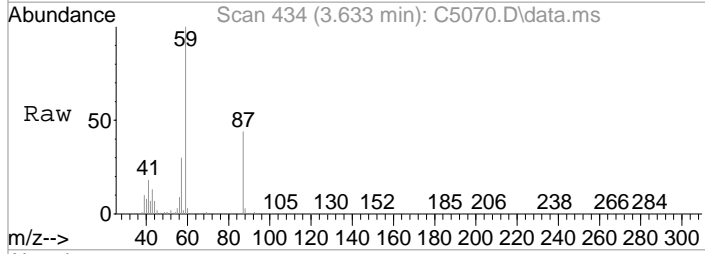
#25  
 Methyl-t-Butyl Ether  
 Concen: 0.40 ug/L  
 RT: 2.651 min Scan# 273  
 Delta R.T. -0.006 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

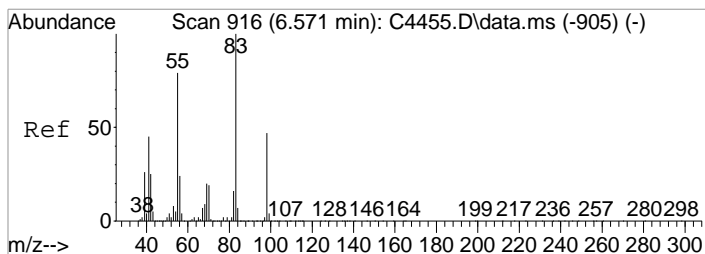
Tgt Ion	Resp	Lower	Upper
73	100		
57	34.3	1.2	41.2
55	3.6	0.0	24.7



#31  
 ETBE  
 Concen: 1.19 ug/L  
 RT: 3.633 min Scan# 434  
 Delta R.T. -0.006 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

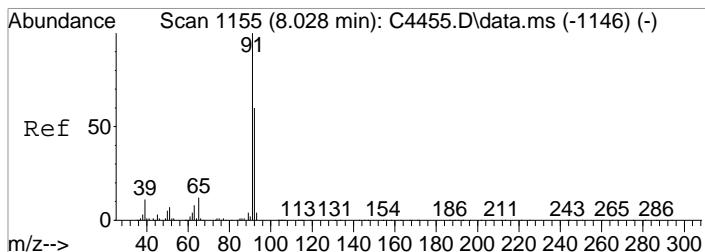
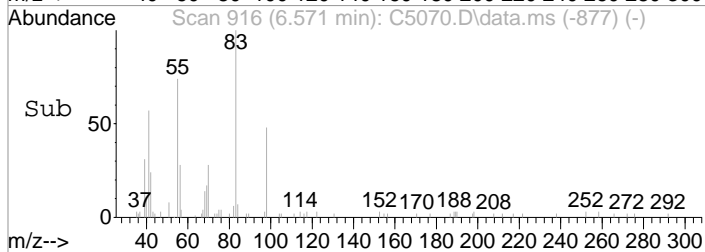
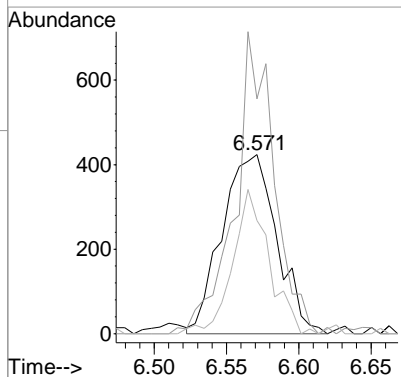
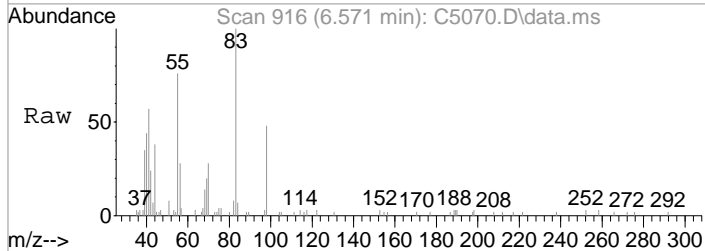
Tgt Ion	Resp	Lower	Upper
59	100		
57	29.7	11.5	51.5
87	43.6	21.4	61.4





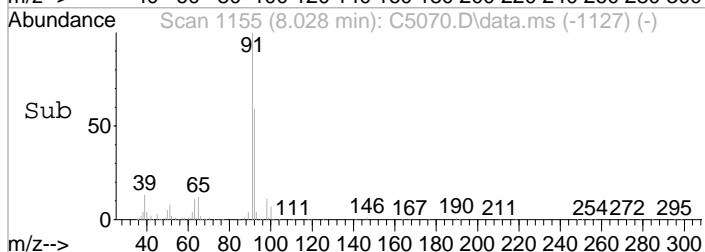
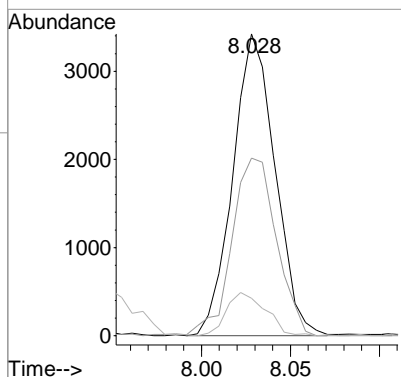
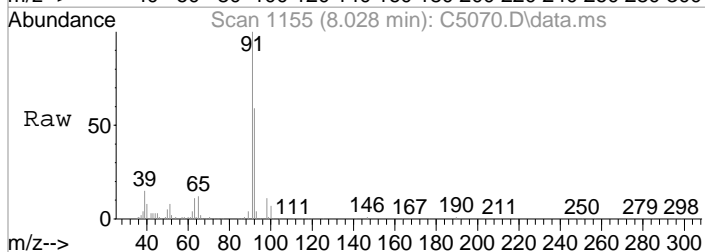
#54  
 Methylcyclohexane  
 Concen: 0.36 ug/L  
 RT: 6.571 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

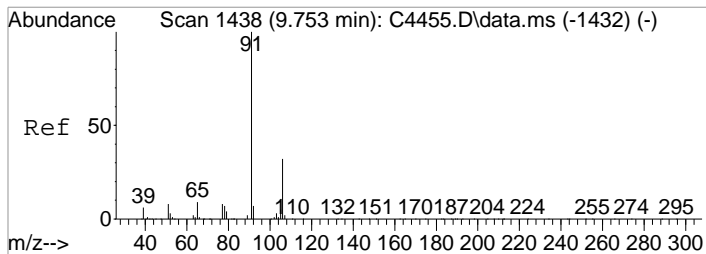
Tgt Ion	Resp	Lower	Upper
55	1117		
55	100		
83	131.1	106.2	146.2
98	63.2	39.7	79.7



#65  
 Toluene  
 Concen: 0.61 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

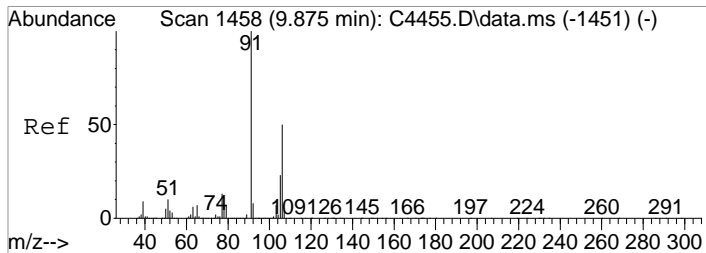
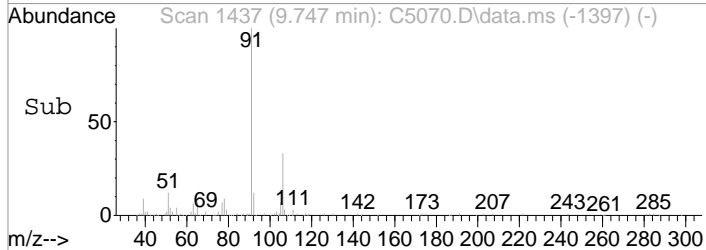
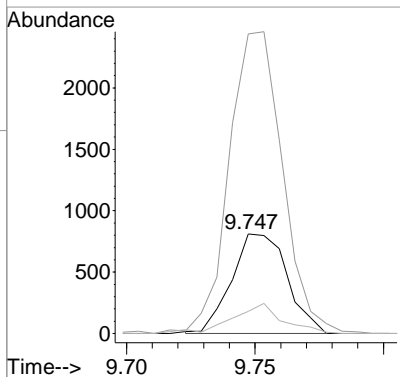
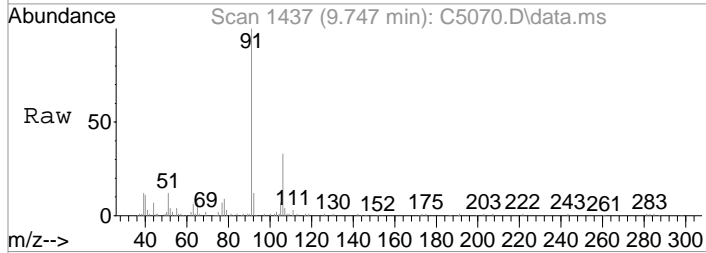
Tgt Ion	Resp	Lower	Upper
91	5652		
91	100		
92	58.9	39.7	79.7
65	12.4	0.0	31.9





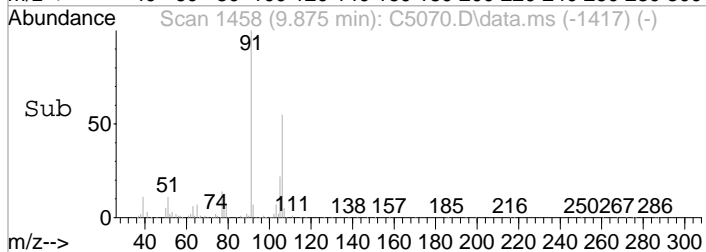
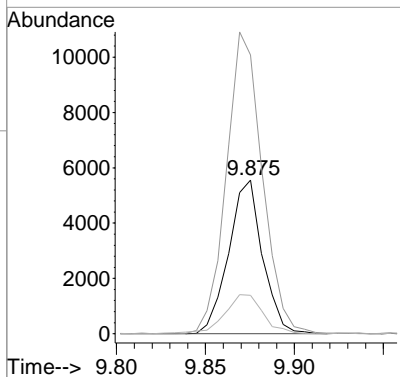
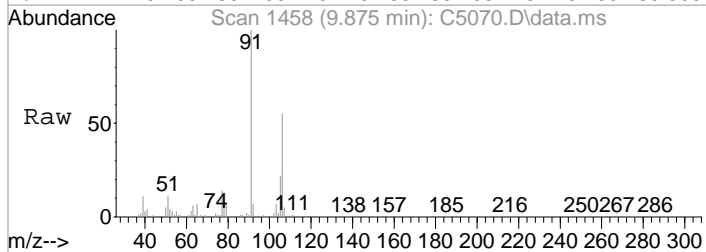
#79  
 Ethylbenzene  
 Concen: 0.42 ug/L  
 RT: 9.747 min Scan# 1437  
 Delta R.T. -0.006 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

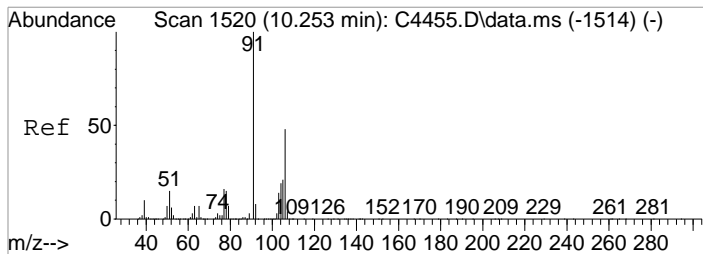
Tgt Ion	106	Resp:	1222
Ion Ratio	Lower	Upper	
106	100		
91	300.9	295.6	335.6
65	22.1	8.0	48.0



#80  
 (m+p)Xylene  
 Concen: 2.02 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

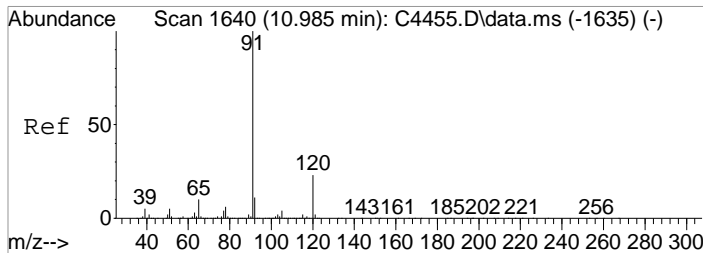
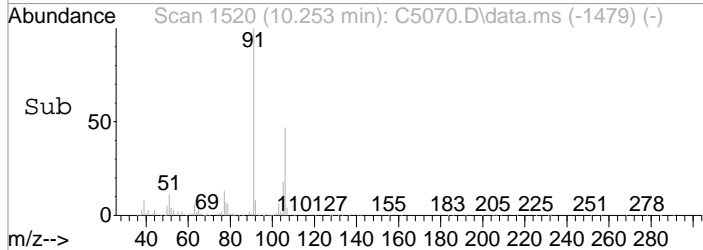
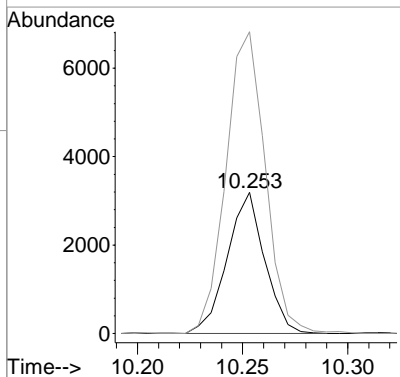
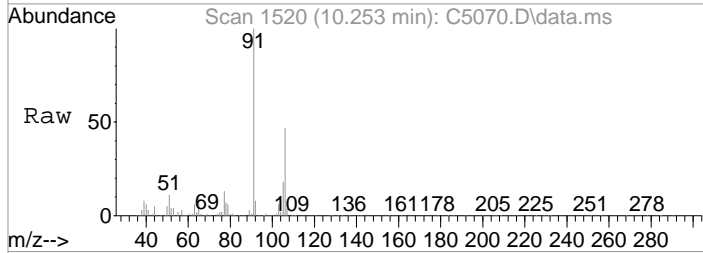
Tgt Ion	106	Resp:	7341
Ion Ratio	Lower	Upper	
106	100		
91	181.3	180.9	220.9
77	24.9	5.7	45.7





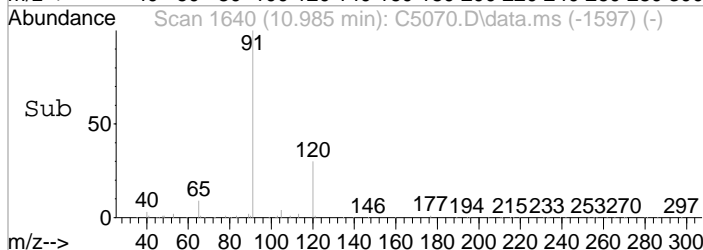
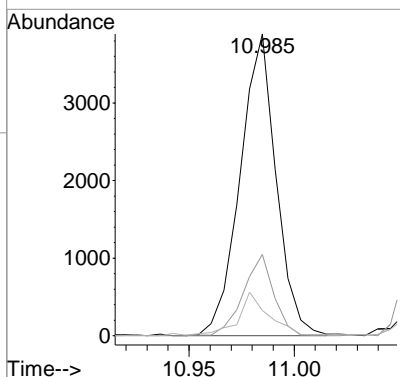
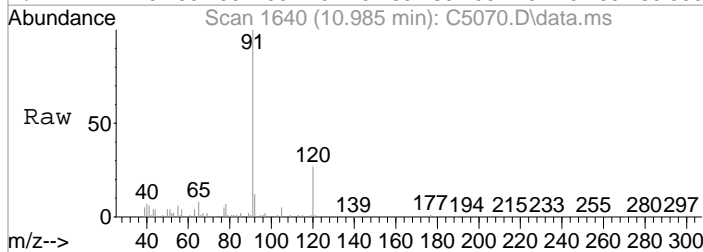
#81  
 o-Xylene  
 Concen: 1.10 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

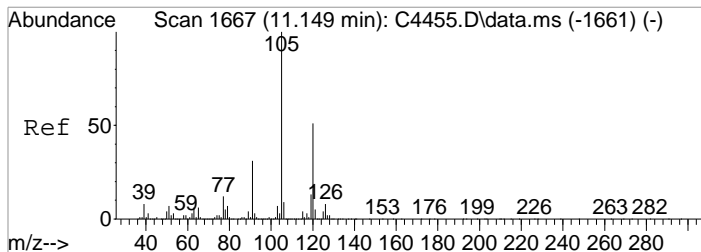
Tgt Ion	Resp	Lower	Upper
106	3959		
106	100		
91	213.9	187.6	227.6



#91  
 n-Propylbenzene  
 Concen: 0.62 ug/L  
 RT: 10.985 min Scan# 1640  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

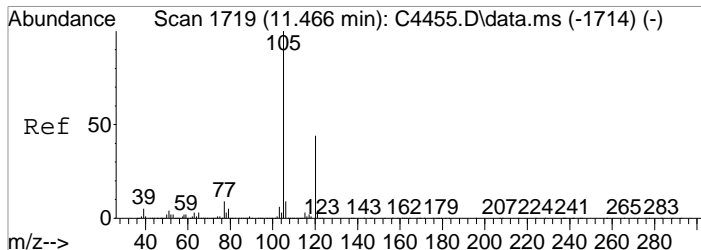
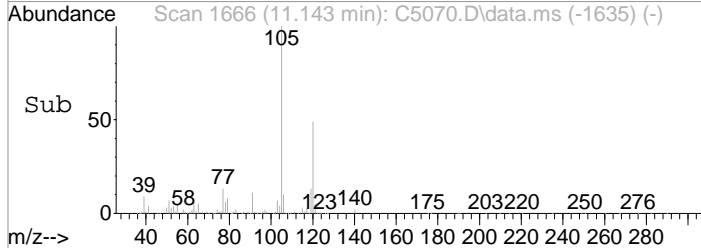
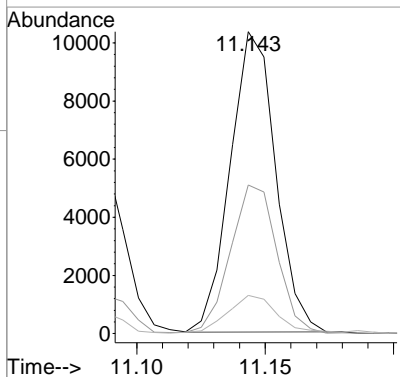
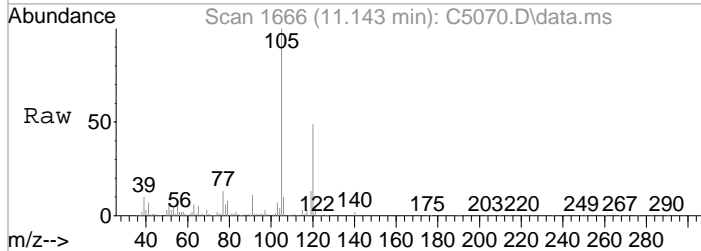
Tgt Ion	Resp	Lower	Upper
91	4639		
91	100		
120	27.0	3.2	43.2
65	8.4	0.0	30.2





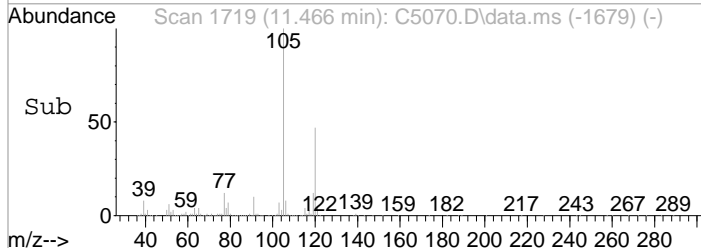
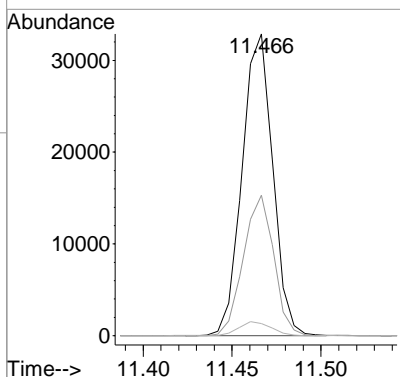
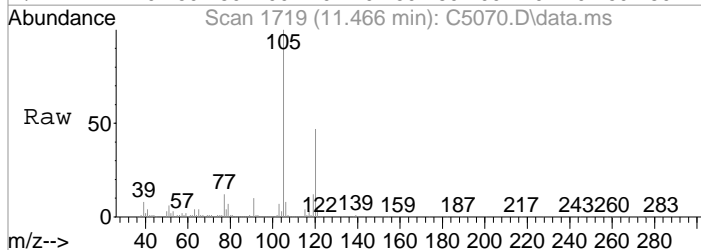
#94  
 1,3,5-Trimethylbenzene  
 Concen: 2.35 ug/L  
 RT: 11.143 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

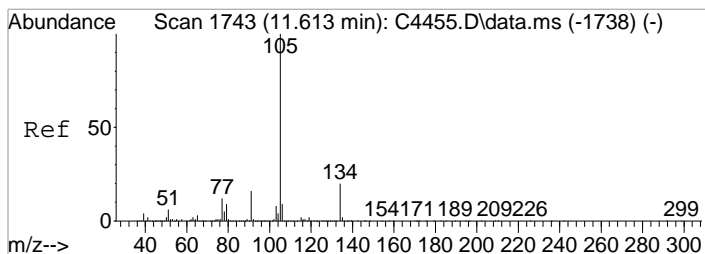
Tgt Ion	Resp	Lower	Upper
105	12756		
120	49.2	30.5	70.5
77	12.6	0.0	32.4



#96  
 1,2,4-Trimethylbenzene  
 Concen: 7.13 ug/L  
 RT: 11.466 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

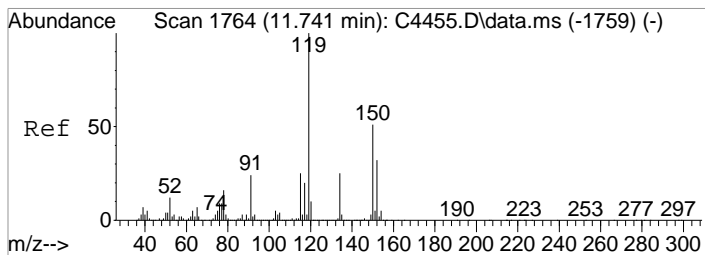
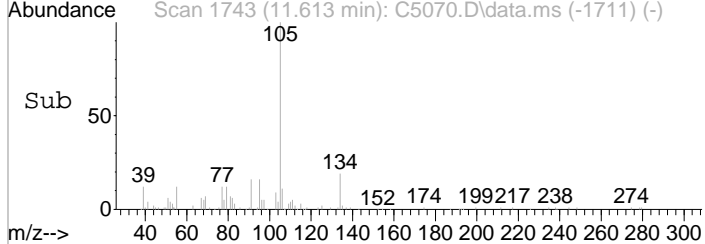
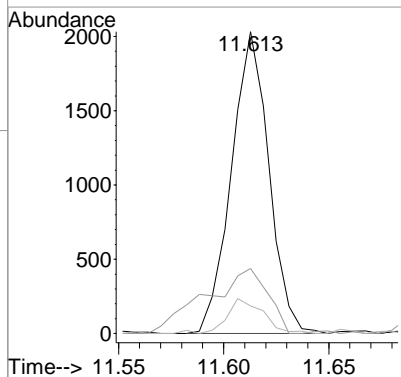
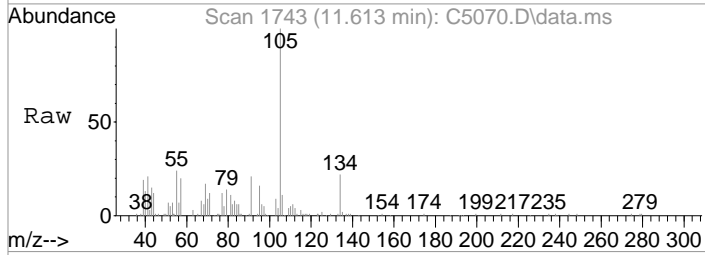
Tgt Ion	Resp	Lower	Upper
105	39295		
120	46.6	26.3	66.3
65	4.0	0.0	24.4





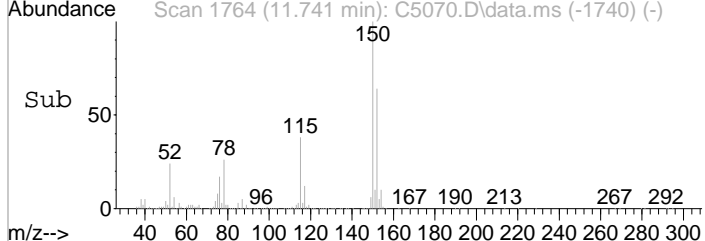
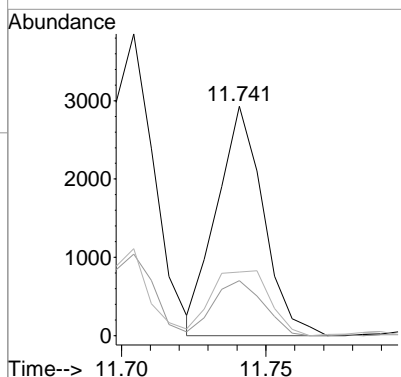
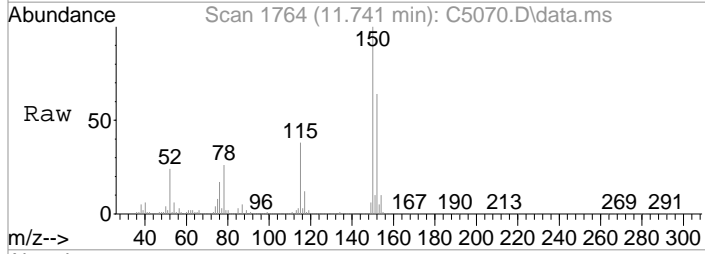
#97  
 sec-Butylbenzene  
 Concen: 0.36 ug/L  
 RT: 11.613 min Scan# 1743  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

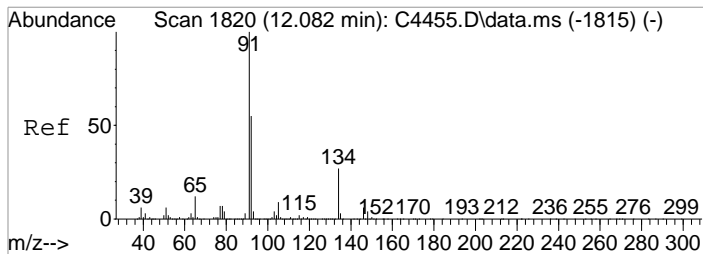
Tgt Ion	Resp	Lower	Upper
105	2523		
134	21.5	0.0	39.9
103	9.1	0.0	28.1



#98  
 p-Isopropyltoluene  
 Concen: 0.55 ug/L  
 RT: 11.741 min Scan# 1764  
 Delta R.T. 0.000 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

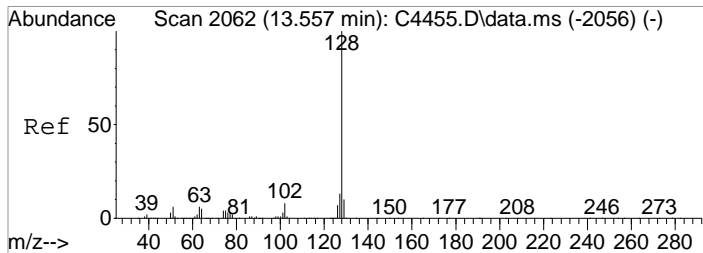
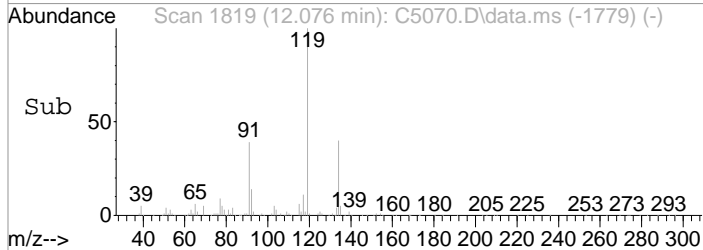
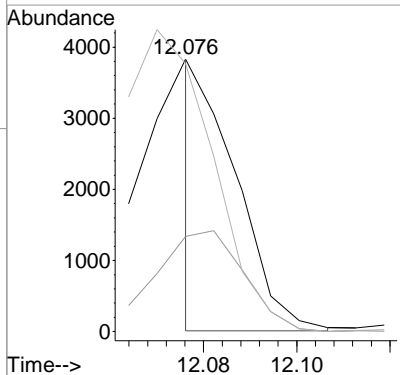
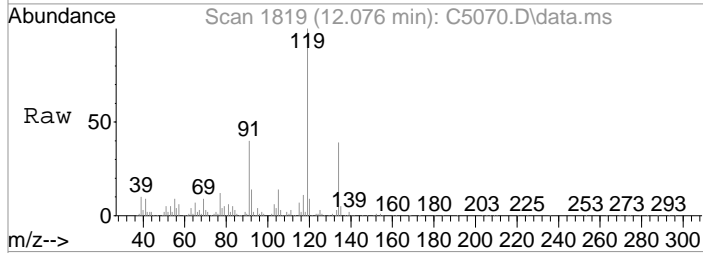
Tgt Ion	Resp	Lower	Upper
119	3293		
134	24.0	4.9	44.9
91	27.8	3.5	43.5





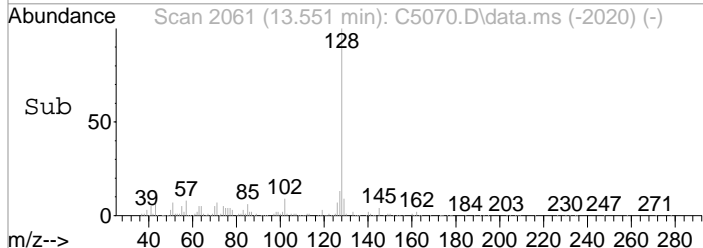
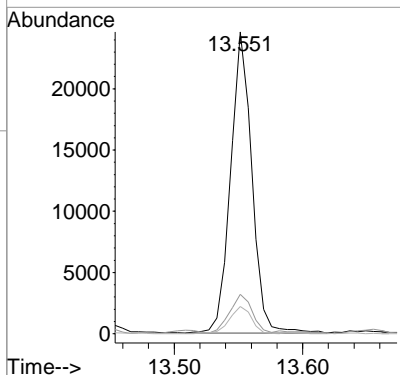
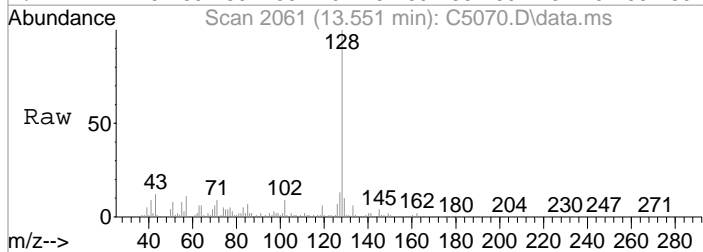
#101  
 n-Butylbenzene  
 Concen: 0.38 ug/L m  
 RT: 12.076 min Scan# 1819  
 Delta R.T. -0.006 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	34.9	34.9	74.9#
134	98.5	6.7	46.7#



#107  
 Naphthalen  
 Concen: 4.76 ug/L  
 RT: 13.551 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5070.D  
 Acq: 22 Feb 2018 11:11 pm

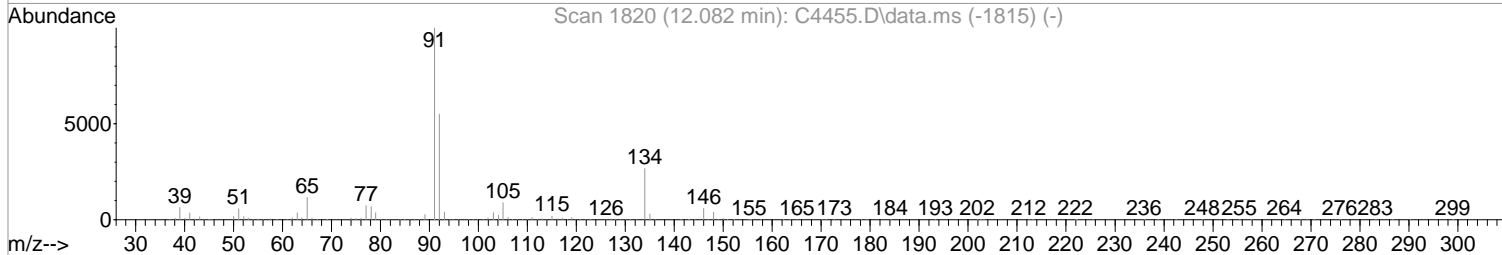
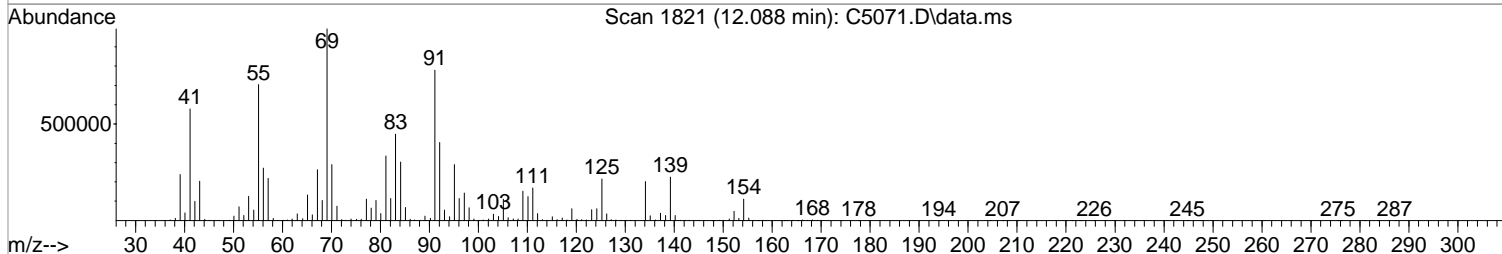
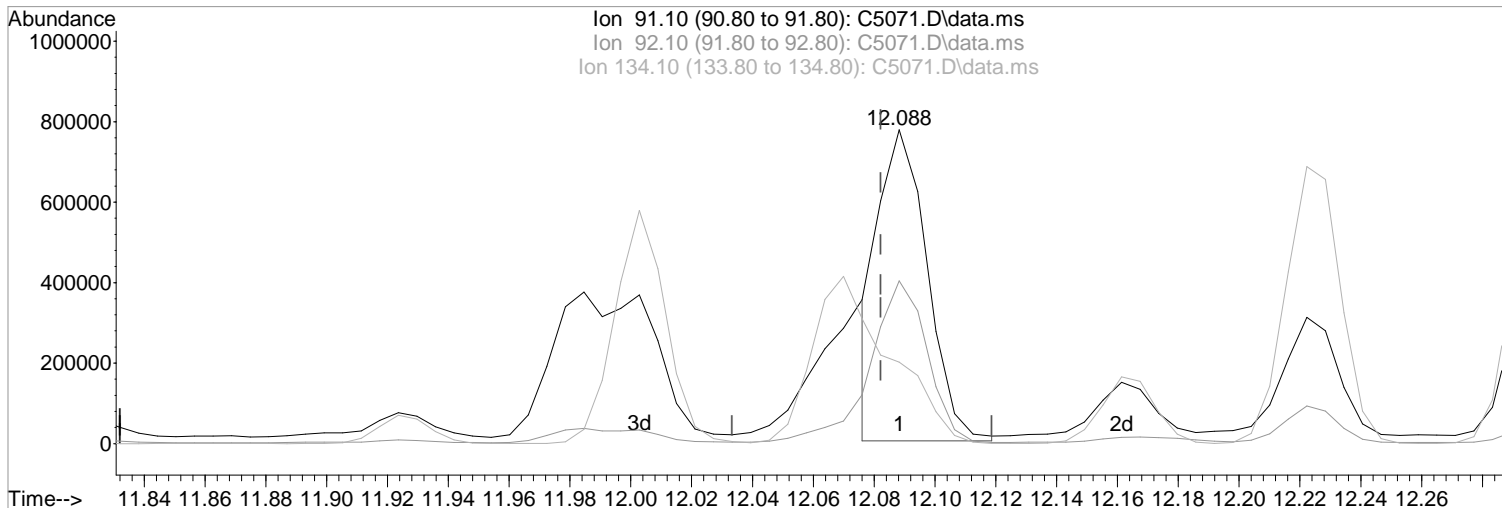
Tgt Ion	Resp	Lower	Upper
128	100		
127	13.1	0.0	33.4
102	9.0	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5071.D  
Acq On : 22 Feb 2018 11:34 pm  
Operator : K.Ruest  
Sample : R1801453-019|0.84  
Misc : DAY 8260 T4  
ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:43:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(101) n-Butylbenzene

12.088min (+0.006) 162.50 ug/L m

response 863298

Ion	Exp%	Act%
91.10	100	100
92.10	54.90	51.87
134.10	26.70	25.90
0.00	0.00	0.00

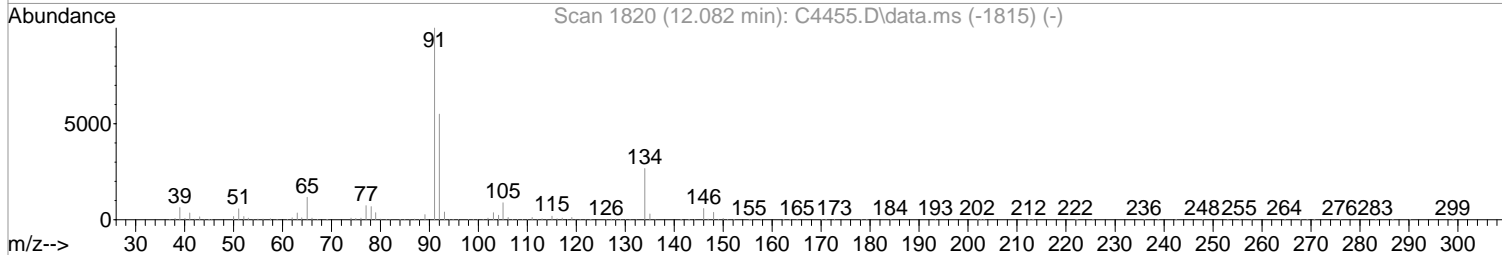
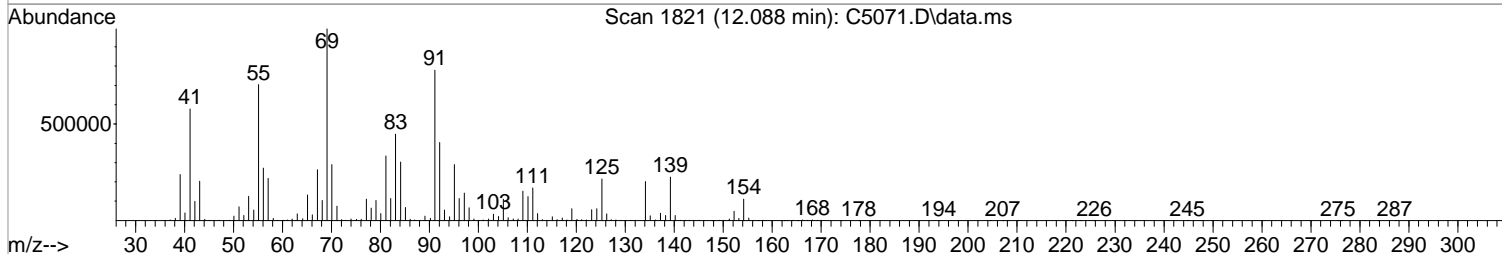
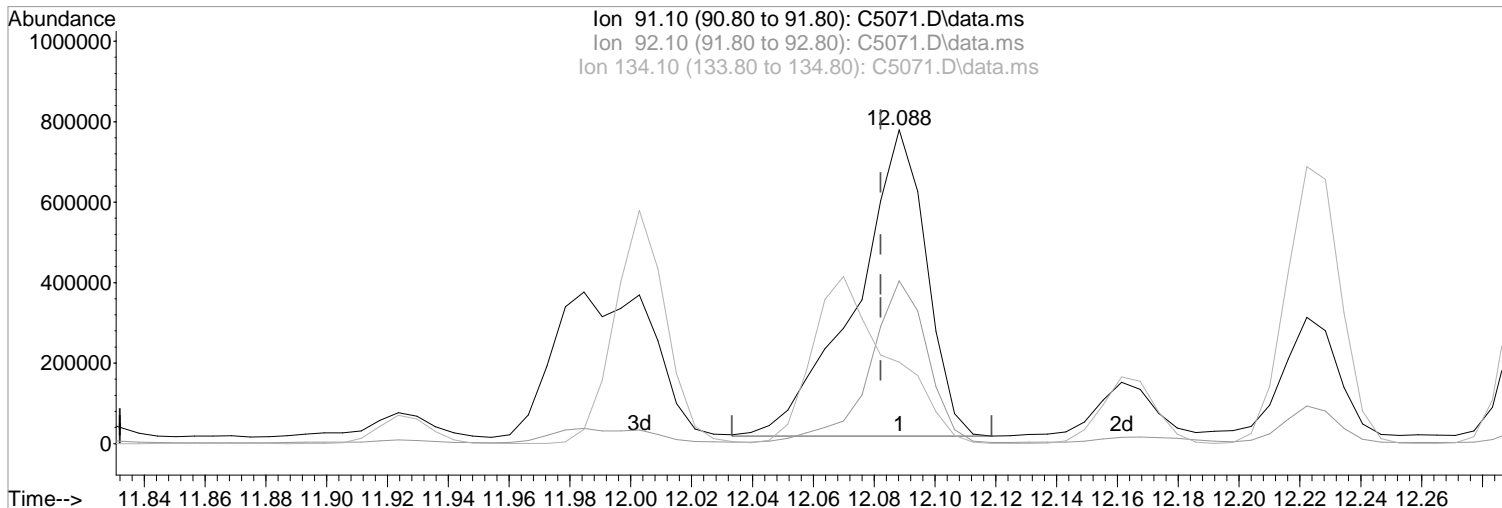
Manual Integration:  
After  
Poor integration.  
02/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5071.D  
Acq On : 22 Feb 2018 11:34 pm  
Operator : K.Ruest  
Sample : R1801453-019|0.84  
Misc : DAY 8260 T4  
ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 23 09:43:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(101) n-Butylbenzene  
12.088min (+0.006) 229.94 ug/L  
response 1221593

Manual Integration:

Before

Ion	Exp%	Act%
91.10	100	100
92.10	54.90	51.87
134.10	26.70	25.90
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5071.D  
 Acq On : 22 Feb 2018 11:34 pm  
 Operator : K.Ruest  
 Sample : R1801453-019|0.84 Inst : MSVOA14  
 Misc : DAY 8260 T4  
 ALS Vial : 23 Sample Multiplier: 1

repeat medium level

Quant Time: Feb 23 16:20:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

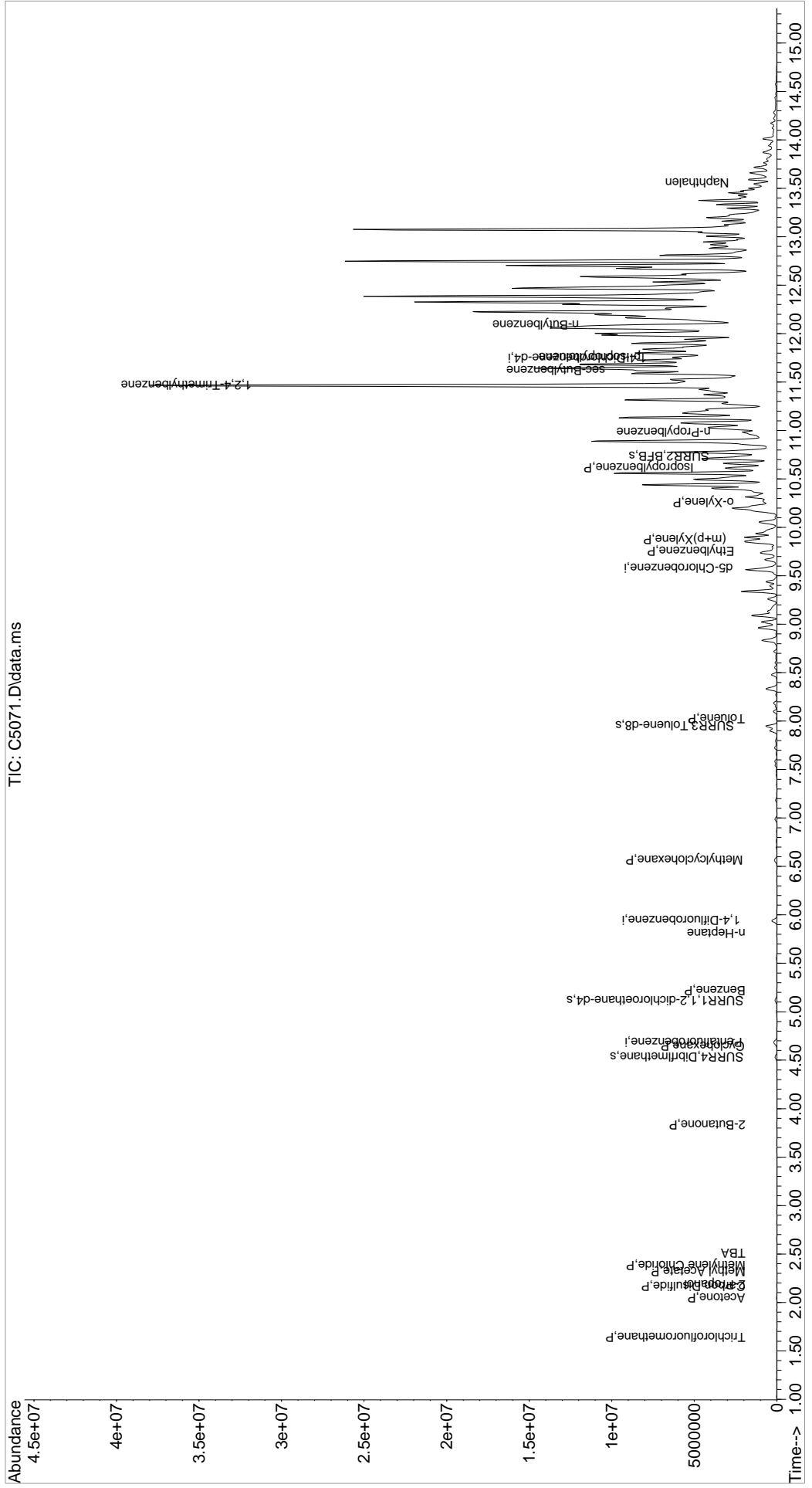
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	188954	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	298939	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	226400	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.747	152	91966	50.00	ug/L	0.00	
System Monitoring Compounds							
44) SURR4,Dibrflmethane	4.535	113	92196	49.53	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery =	99.06%			
47) SURR1,1,2-dichloroetha...	5.114	65	114586	51.39	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery =	102.78%			
64) SURR3,Toluene-d8	7.949	98	345562	48.54	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery =	97.08%			
69) SURR2,BFB	10.735	95	107035	37.27	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery =	74.54%			
Target Compounds							
							Qvalue
8) Trichlorofluoromethane	1.639	101	539	0.21	ug/L		92
15) Acetone	2.047	43	28182	32.92	ug/L		93
16) 2-Propanol	2.182	45	2020	10.35	ug/L		95
18) Carbon Disulfide	2.169	76	11612	2.05	ug/L		98
21) Methyl Acetate	2.316	43	613	0.38	ug/L		79
22) Methylene Chloride	2.383	84	535	0.27	ug/L #		65
23) TBA	2.511	59	661	1.90	ug/L		82
34) 2-Butanone	3.834	43	10166	8.78	ug/L		98
43) Cyclohexane	4.651	41	5102	2.53	ug/L		84
48) Benzene	5.218	78	4281	0.55	ug/L		89
51) n-Heptane	5.809	43	5291	2.32	ug/L		89
54) Methylcyclohexane	6.565	55	64560	22.63	ug/L #		81
65) Toluene	8.028	91	23677	2.76	ug/L		93
79) Ethylbenzene	9.753	106	46317	17.84	ug/L		93
80) (m+p)Xylene	9.875	106	72243	22.22	ug/L		96
81) o-Xylene	10.253	106	62797	19.51	ug/L		97
84) Isopropylbenzene	10.613	105	507932	61.06	ug/L		99
91) n-Propylbenzene	10.985	91	586712	81.53	ug/L		96
96) 1,2,4-Trimethylbenzene	11.472	105	4519166	846.94	ug/L		96 E-Over Calibration
97) sec-Butylbenzene	11.619	105	954661	141.38	ug/L		99
98) p-Isopropyltoluene	11.753	119	1236861	213.04	ug/L		99 E-Over Calibration
101) n-Butylbenzene	12.088	91	863298m	162.50	ug/L		
107) Naphthalen	13.557	128	123414	21.38	ug/L		95

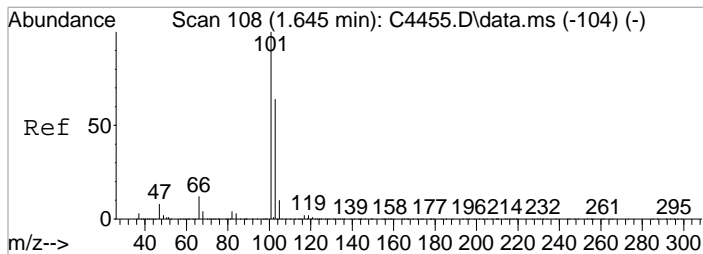
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5071.D  
 Acq On : 22 Feb 2018 11:34 pm  
 Operator : K.Ruest  
 Sample : R1801453-019|0.84  
 Misc : DAY 8260 T4  
 ALS Vial : 23 Sample Multiplier: 1

Inst : MSVOA14

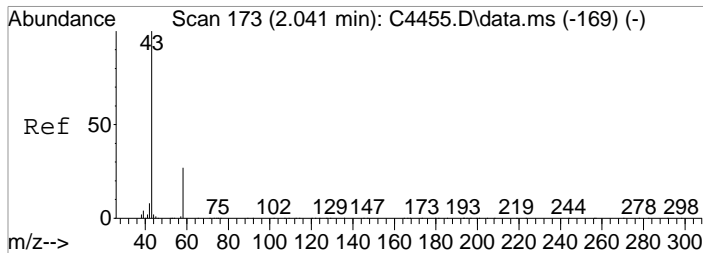
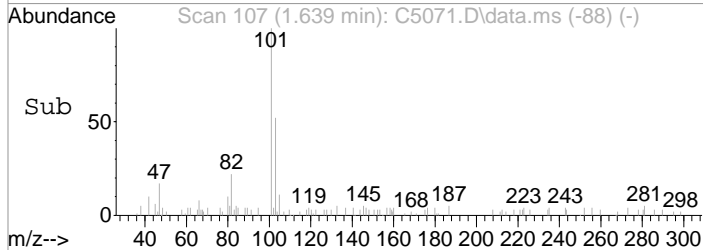
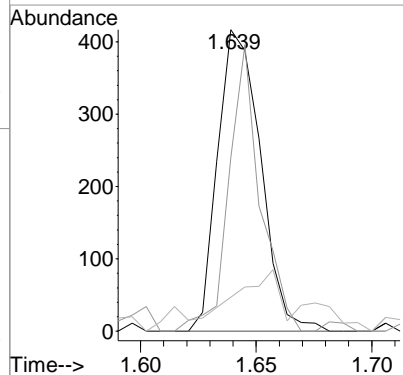
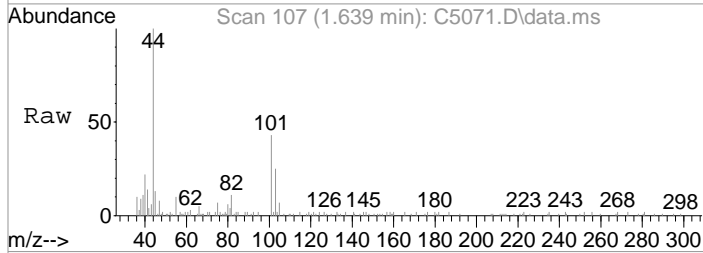
Quant Time: Feb 23 16:20:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration





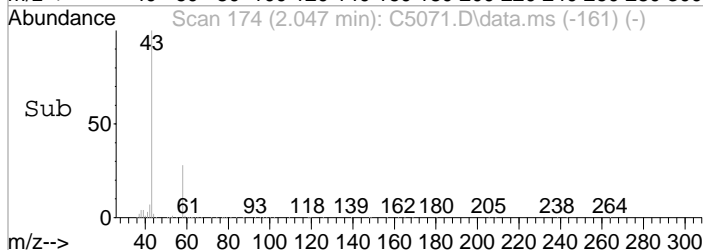
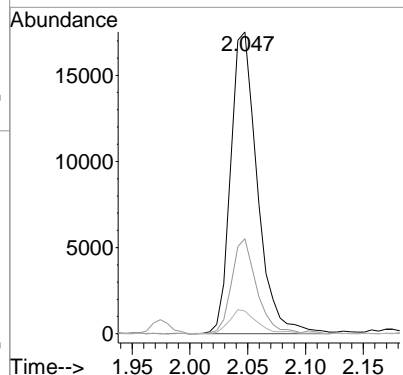
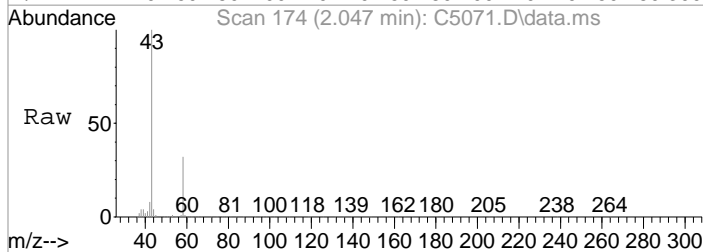
#8  
 Trichlorofluoromethane  
 Concen: 0.21 ug/L  
 RT: 1.639 min Scan# 107  
 Delta R.T. -0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

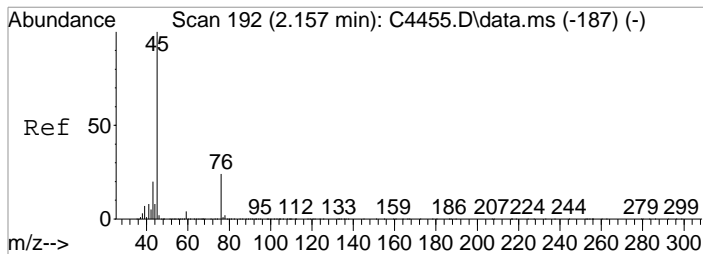
Tgt Ion	Resp	Lower	Upper
101	539		
103	57.6	44.0	84.0
66	11.3	0.0	32.9



#15  
 Acetone  
 Concen: 32.92 ug/L  
 RT: 2.047 min Scan# 174  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

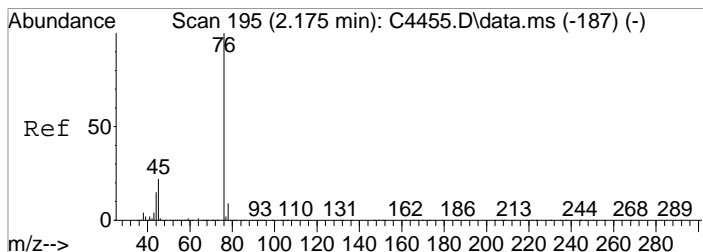
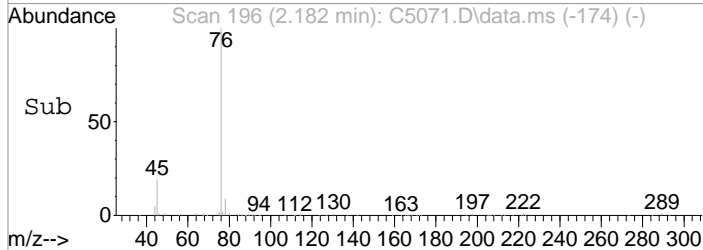
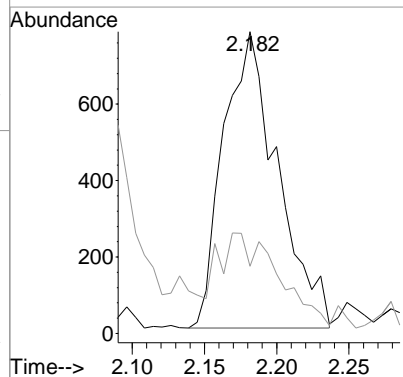
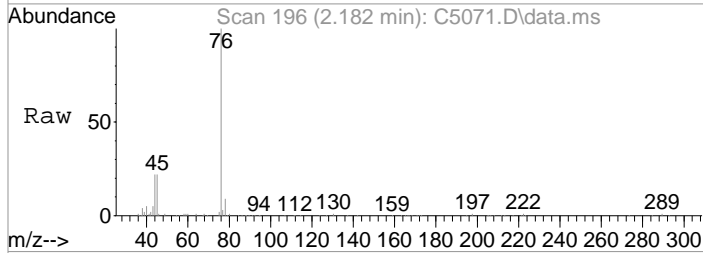
Tgt Ion	Resp	Lower	Upper
43	28182		
58	31.5	7.1	47.1
42	7.5	0.0	28.6





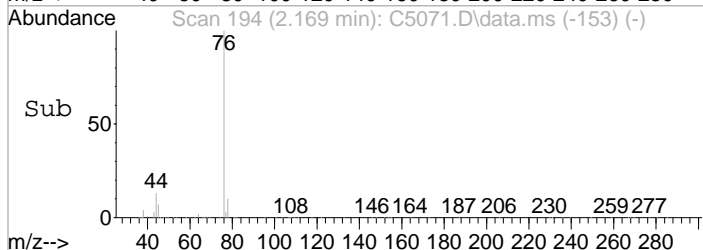
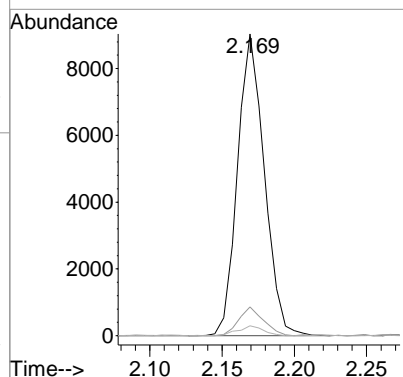
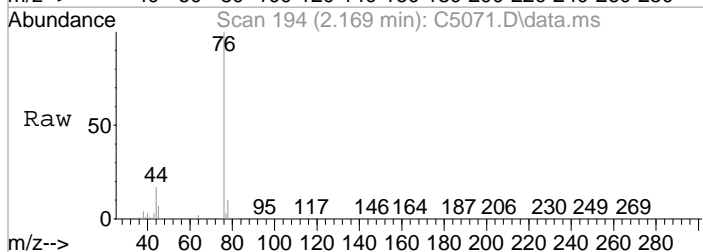
#16  
 2-Propanol  
 Concen: 10.35 ug/L  
 RT: 2.182 min Scan# 196  
 Delta R.T. 0.024 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

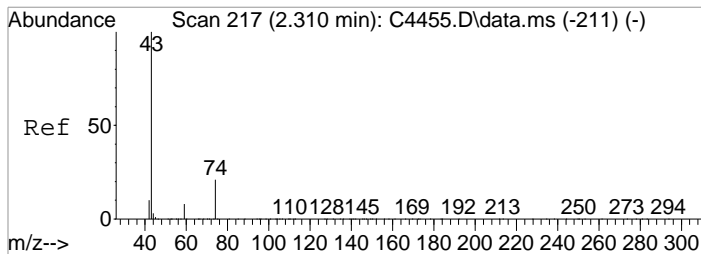
Tgt Ion	Resp	Lower	Upper
45	100		
43	22.3	0.1	40.1



#18  
 Carbon Disulfide  
 Concen: 2.05 ug/L  
 RT: 2.169 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

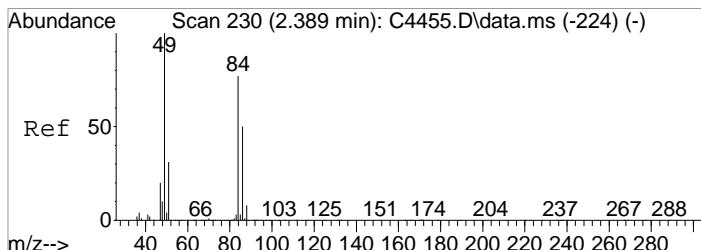
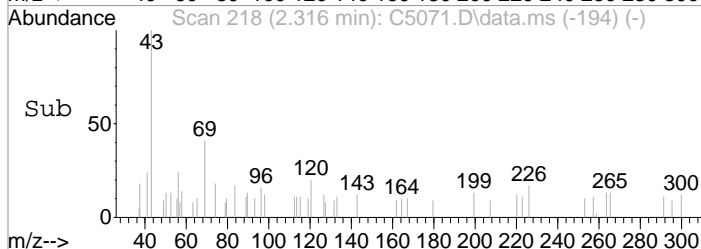
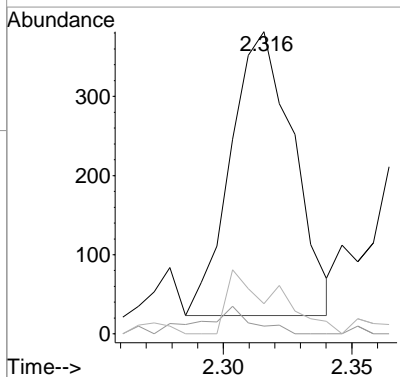
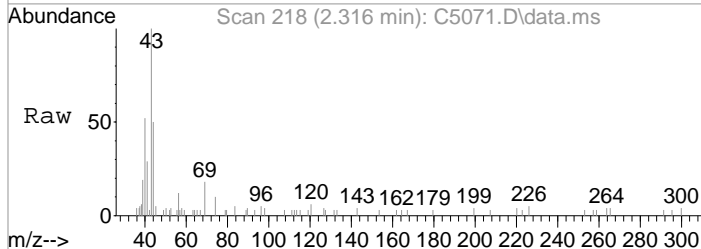
Tgt Ion	Resp	Lower	Upper
76	100		
78	9.6	0.0	28.9
77	3.4	0.0	22.4





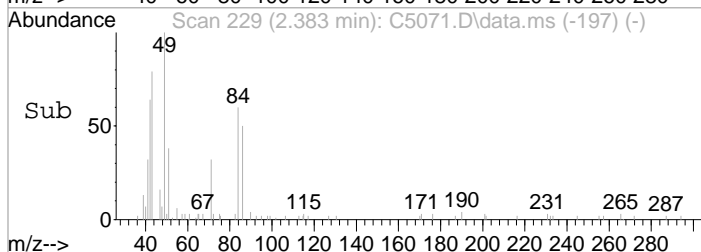
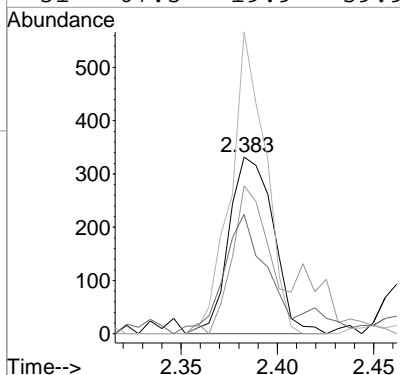
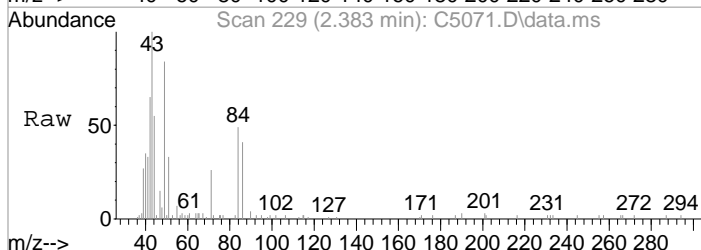
#21  
 Methyl Acetate  
 Concen: 0.38 ug/L  
 RT: 2.316 min Scan# 218  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

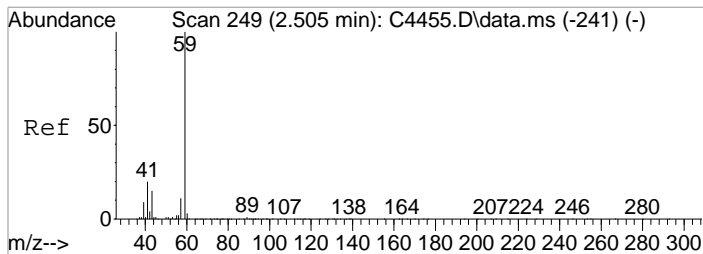
Tgt Ion	Resp	Lower	Upper
43	613		
59	2.6	0.0	27.7
74	9.9	1.0	41.0



#22  
 Methylene Chloride  
 Concen: 0.27 ug/L  
 RT: 2.383 min Scan# 229  
 Delta R.T. -0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

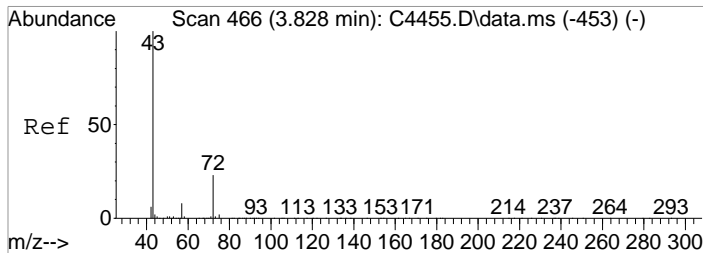
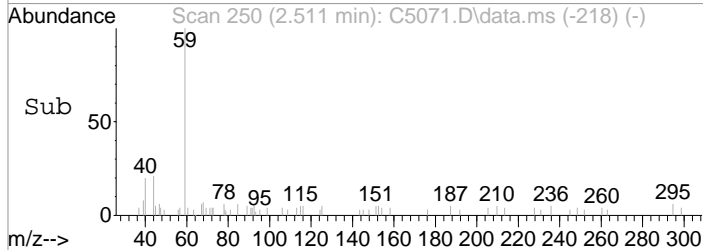
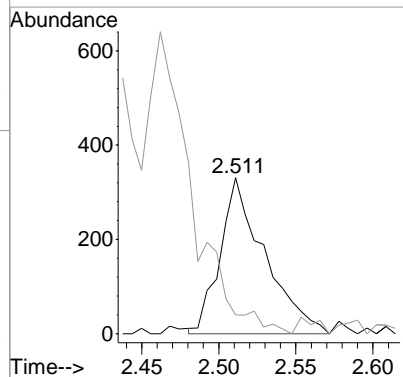
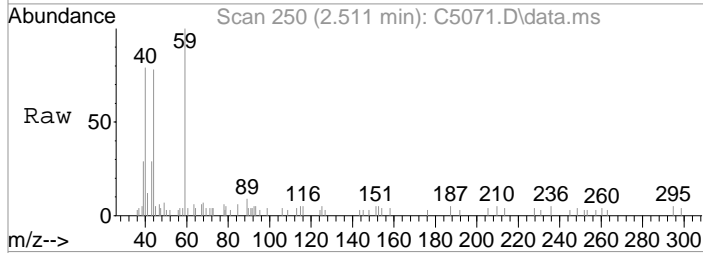
Tgt Ion	Resp	Lower	Upper
84	535		
86	83.7	43.9	83.9
49	170.8	109.1	149.1#
51	67.5	19.9	59.9#





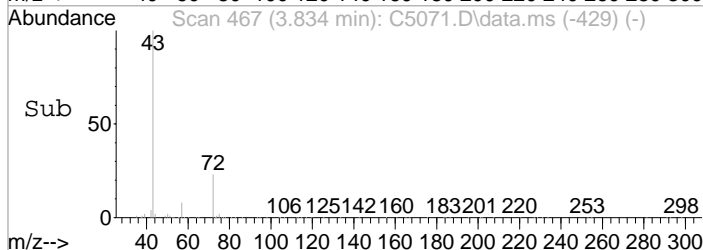
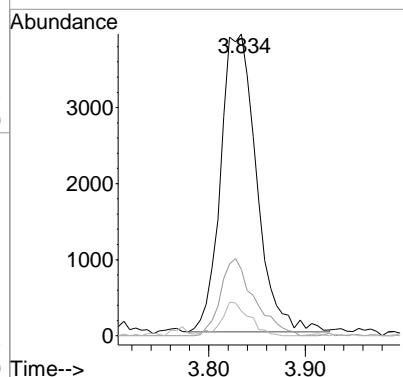
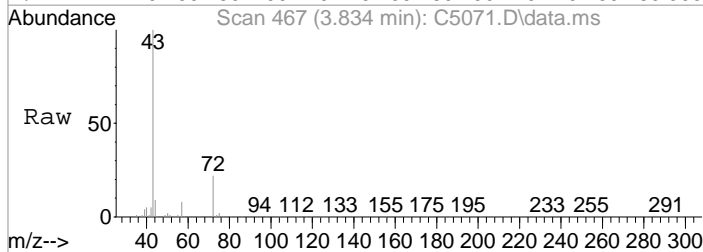
#23  
 TBA  
 Concen: 1.90 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

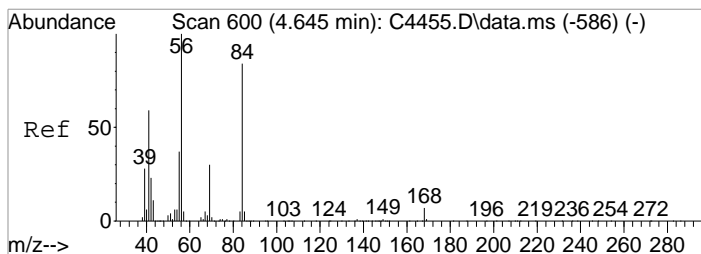
Tgt Ion	Resp	Lower	Upper
59	100		
41	12.1	0.3	40.3



#34  
 2-Butanone  
 Concen: 8.78 ug/L  
 RT: 3.834 min Scan# 467  
 Delta R.T. 0.007 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

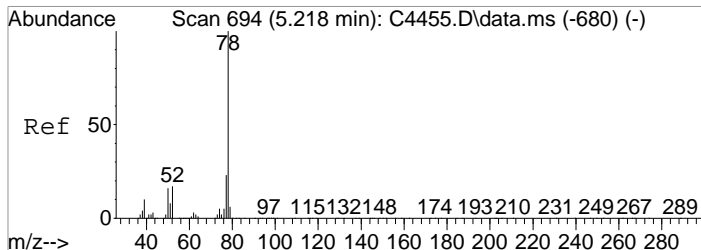
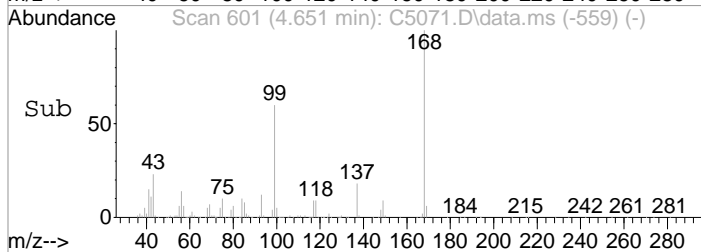
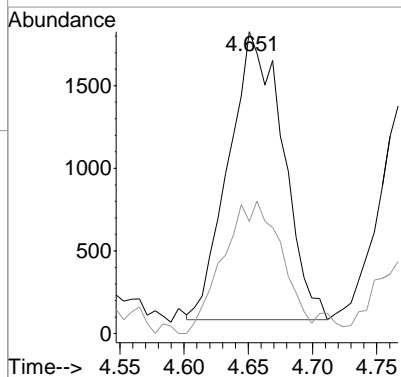
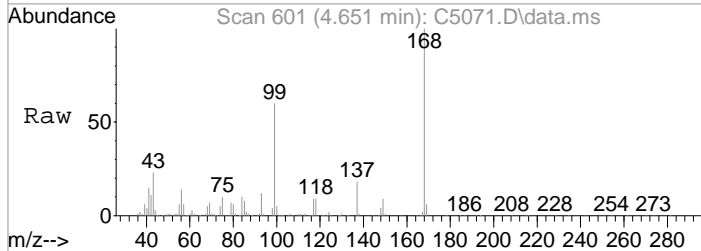
Tgt Ion	Resp	Lower	Upper
43	100		
72	22.0	3.3	43.3
57	8.2	0.0	28.0





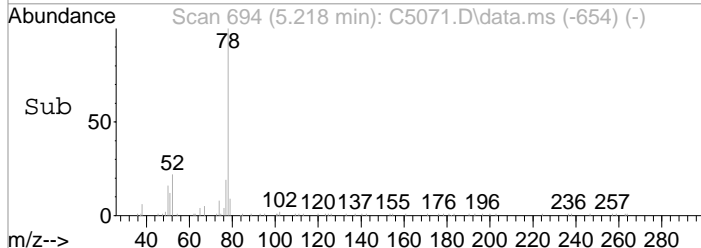
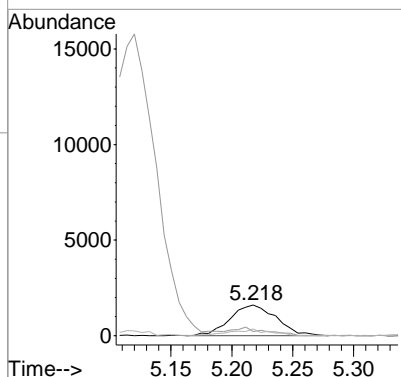
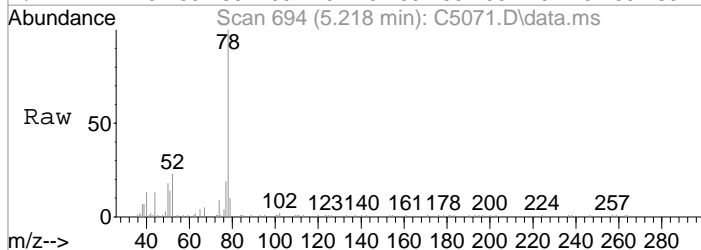
#43  
 Cyclohexane  
 Concen: 2.53 ug/L  
 RT: 4.651 min Scan# 601  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

Tgt Ion	Resp	Lower	Upper
41	5102		
41	100		
39	37.1	28.0	68.0

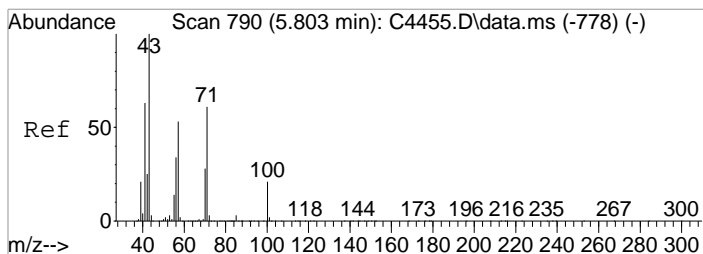


#48  
 Benzene  
 Concen: 0.55 ug/L  
 RT: 5.218 min Scan# 694  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

Tgt Ion	Resp	Lower	Upper
78	4281		
78	100		
51	13.5	0.0	37.4
52	22.6	0.0	36.9

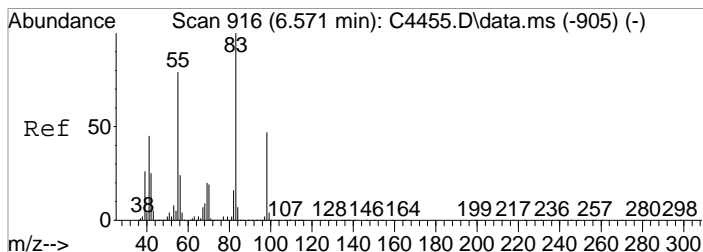
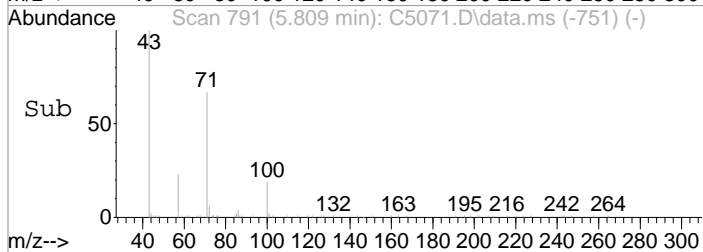
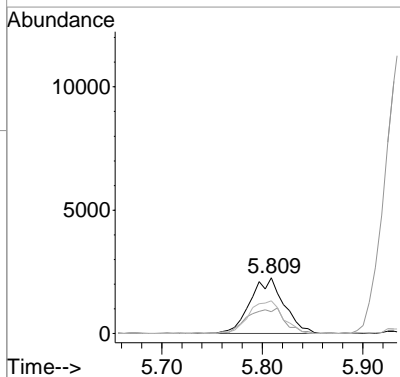
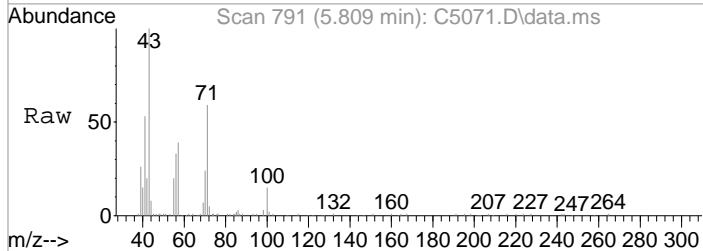






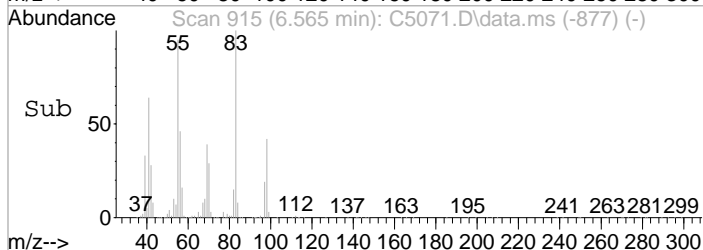
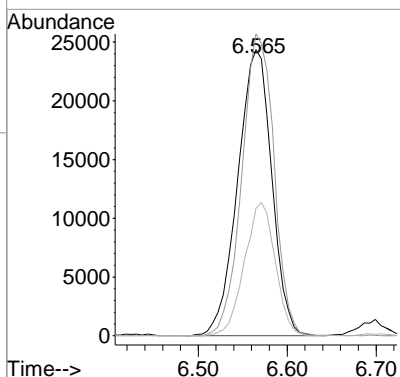
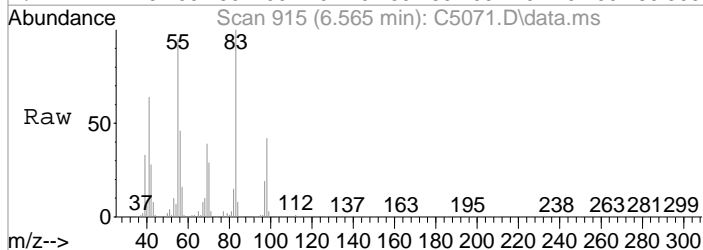
#51  
 n-Heptane  
 Concen: 2.32 ug/L  
 RT: 5.809 min Scan# 791  
 Delta R.T. 0.007 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

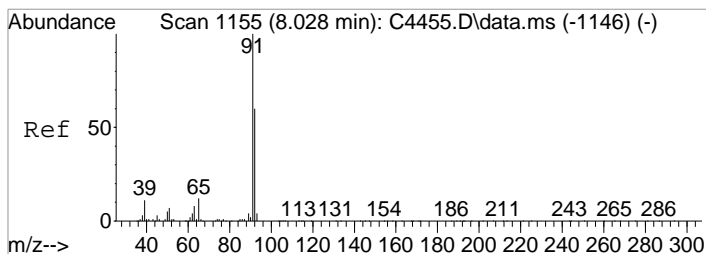
Tgt Ion	Resp	Lower	Upper
43	100		
57	39.3	33.3	73.3
71	58.8	40.9	80.9



#54  
 Methylcyclohexane  
 Concen: 22.63 ug/L  
 RT: 6.565 min Scan# 915  
 Delta R.T. -0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

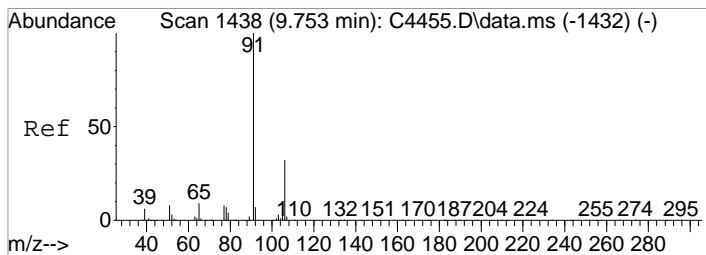
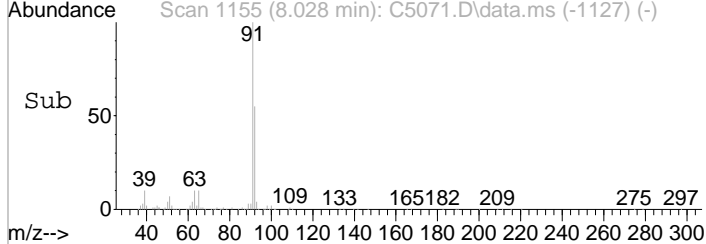
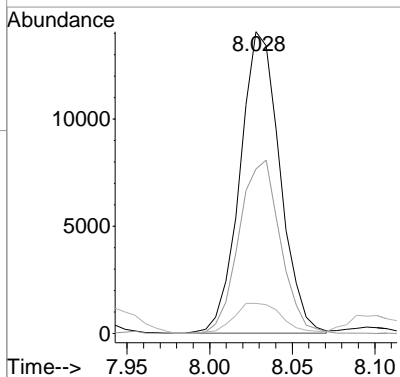
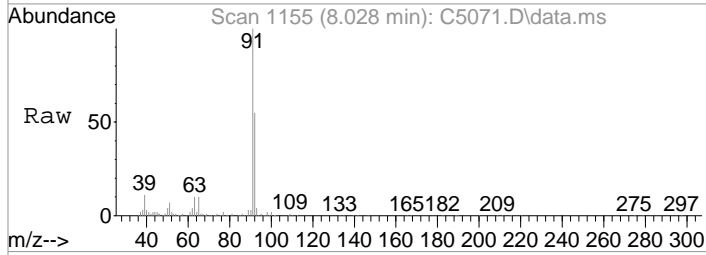
Tgt Ion	Resp	Lower	Upper
55	100		
83	105.6	106.2	146.2#
98	44.6	39.7	79.7





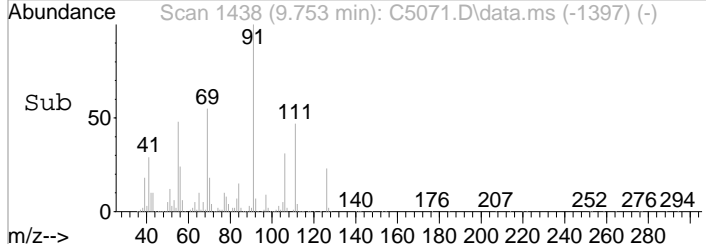
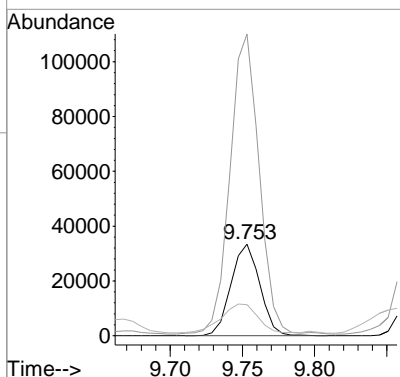
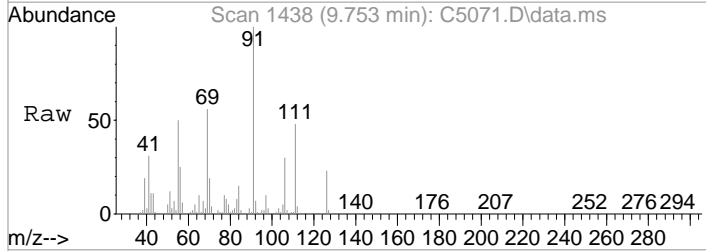
#65  
 Toluene  
 Concen: 2.76 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

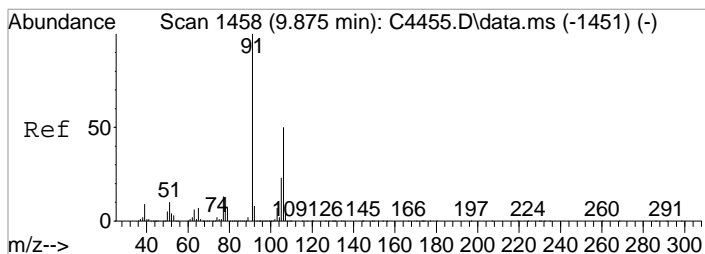
Tgt Ion	Resp	Lower	Upper
91	100		
92	54.5	39.7	79.7
65	10.0	0.0	31.9



#79  
 Ethylbenzene  
 Concen: 17.84 ug/L  
 RT: 9.753 min Scan# 1438  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

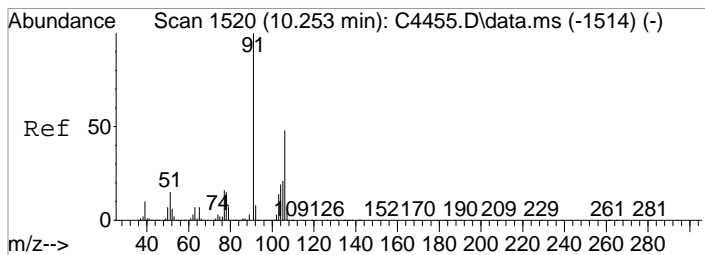
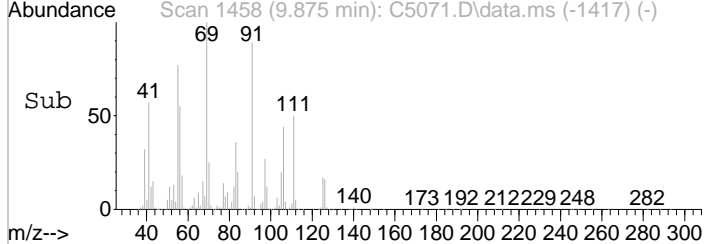
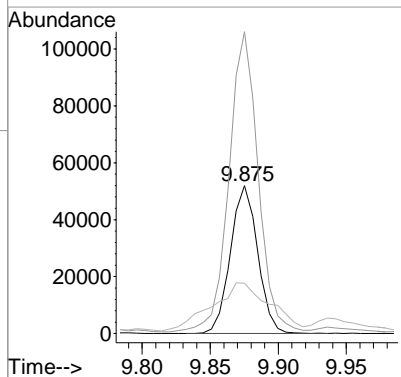
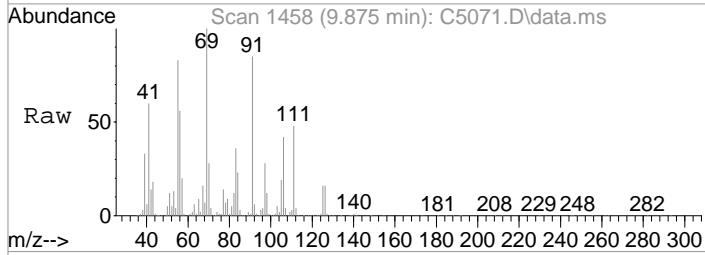
Tgt Ion	Resp	Lower	Upper
106	100		
91	329.2	295.6	335.6
65	33.8	8.0	48.0





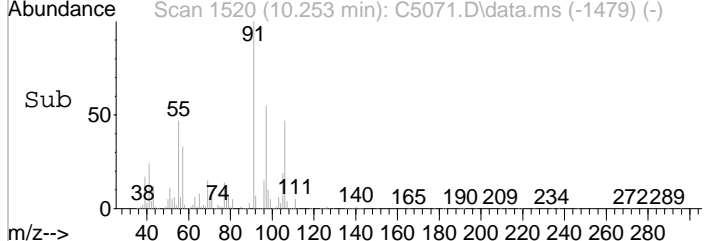
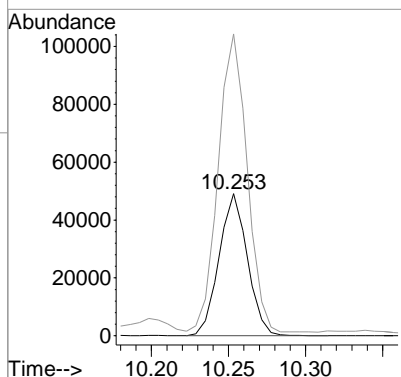
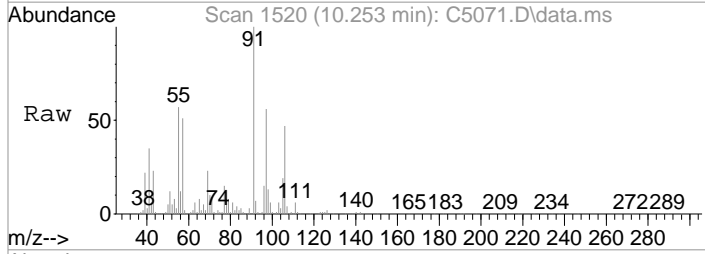
#80  
 (m+p)Xylene  
 Concen: 22.22 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

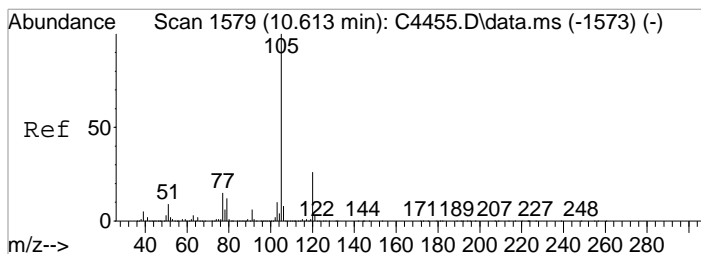
Tgt Ion	106	Resp:	72243
Ion Ratio	Lower	Upper	
106	100		
91	204.4	180.9	220.9
77	34.0	5.7	45.7



#81  
 o-Xylene  
 Concen: 19.51 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

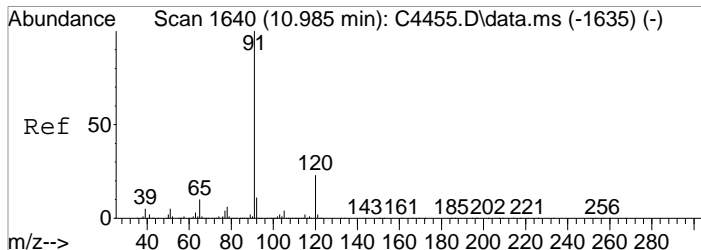
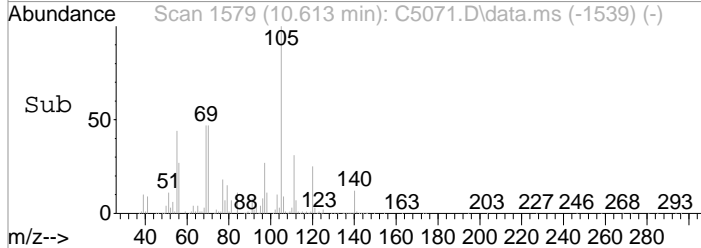
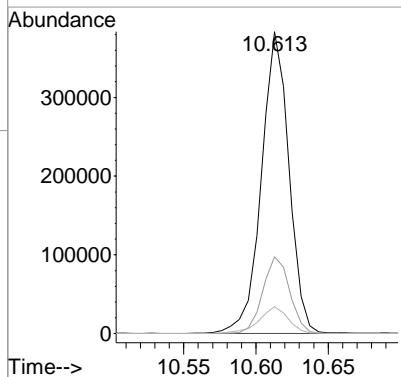
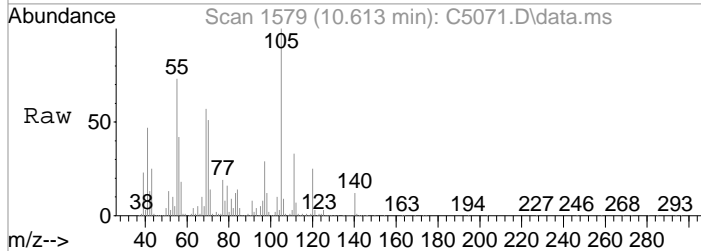
Tgt Ion	106	Resp:	62797
Ion Ratio	Lower	Upper	
106	100		
91	212.3	187.6	227.6





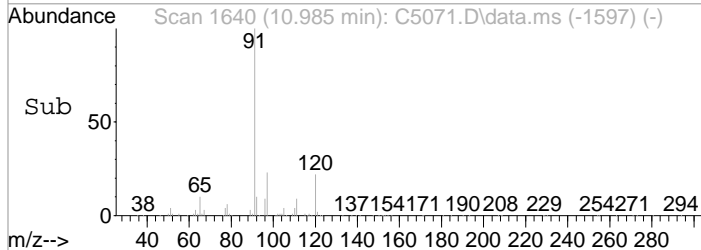
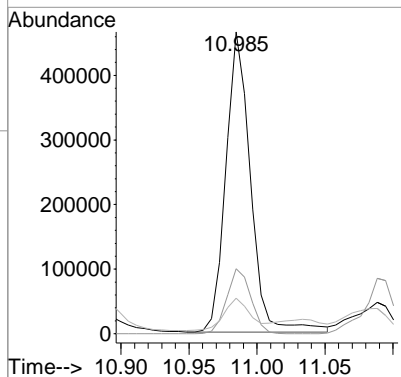
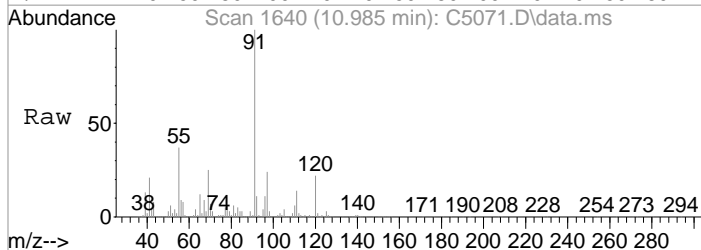
#84  
 Isopropylbenzene  
 Concen: 61.06 ug/L  
 RT: 10.613 min Scan# 1579  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

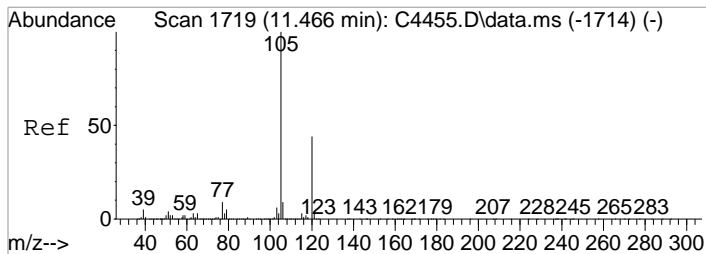
Tgt Ion	Resp	Lower	Upper
105	507932		
105	100		
120	25.4	6.2	46.2
106	9.0	0.0	28.5



#91  
 n-Propylbenzene  
 Concen: 81.53 ug/L  
 RT: 10.985 min Scan# 1640  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

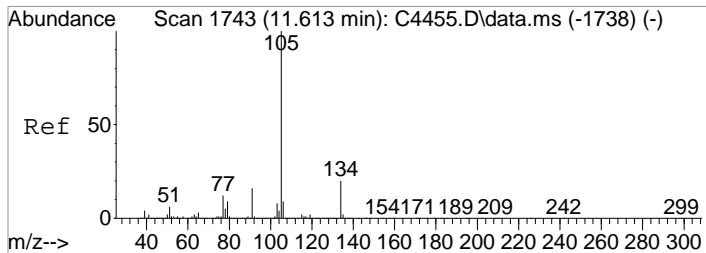
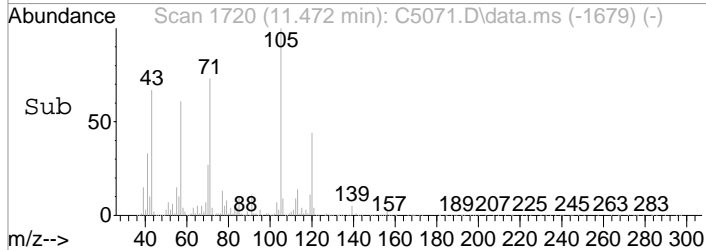
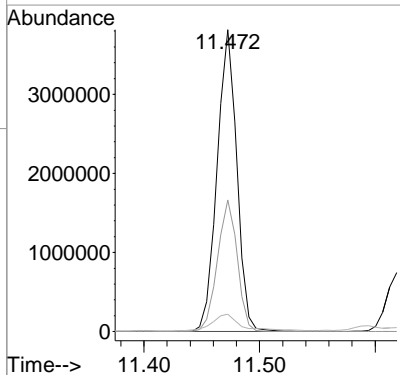
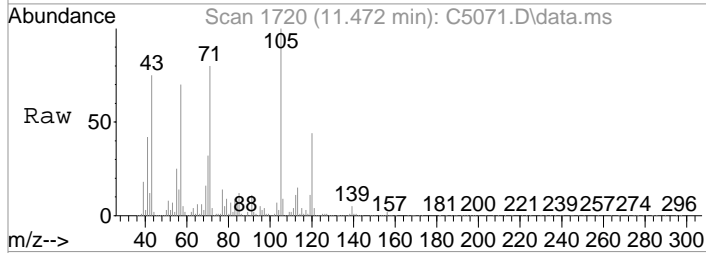
Tgt Ion	Resp	Lower	Upper
91	586712		
91	100		
120	21.5	3.2	43.2
65	11.8	0.0	30.2





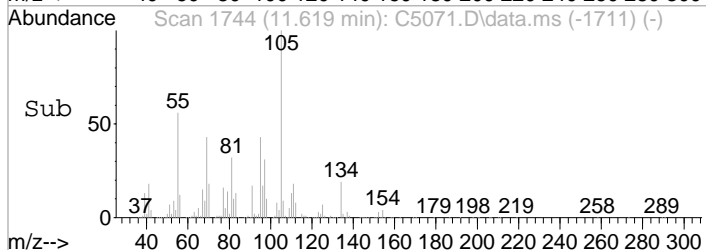
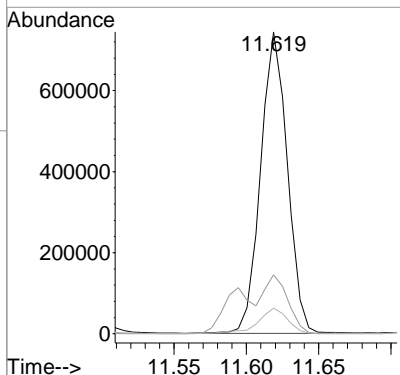
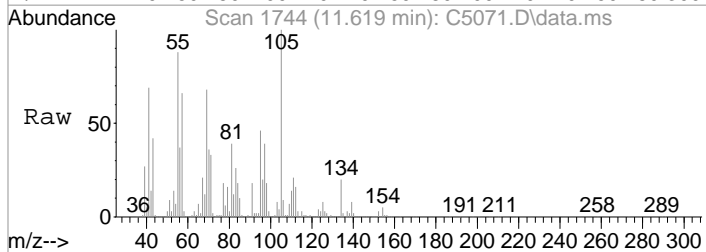
#96  
 1,2,4-Trimethylbenzene  
 Concen: 846.94 ug/L  
 RT: 11.472 min Scan# 1720  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

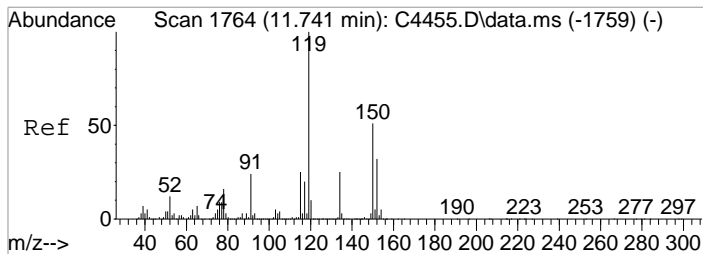
Tgt Ion	Resp	Lower	Upper
105	4519166		
105	100		
120	43.5	26.3	66.3
65	5.7	0.0	24.4



#97  
 sec-Butylbenzene  
 Concen: 141.38 ug/L  
 RT: 11.619 min Scan# 1744  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

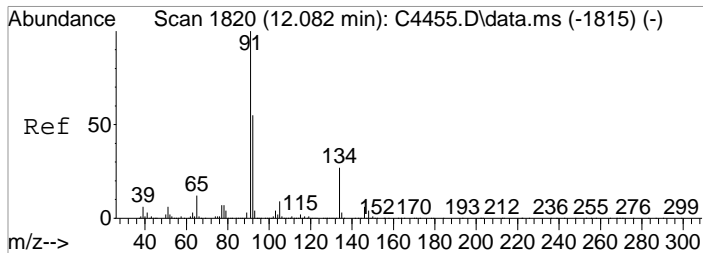
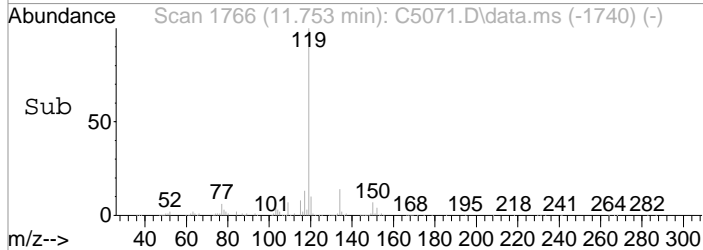
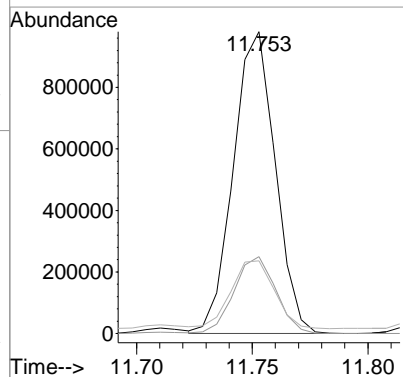
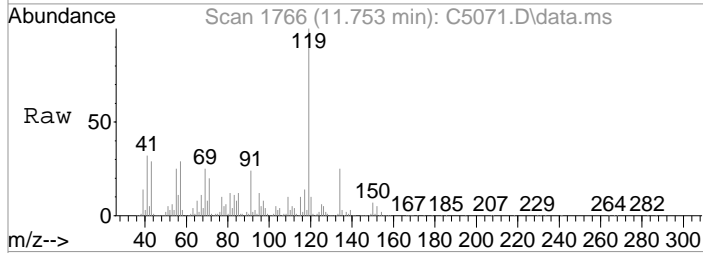
Tgt Ion	Resp	Lower	Upper
105	954661		
105	100		
134	19.5	0.0	39.9
103	8.5	0.0	28.1





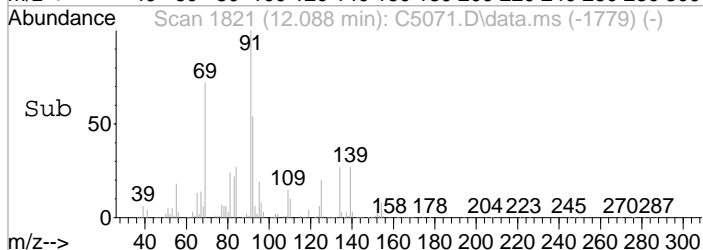
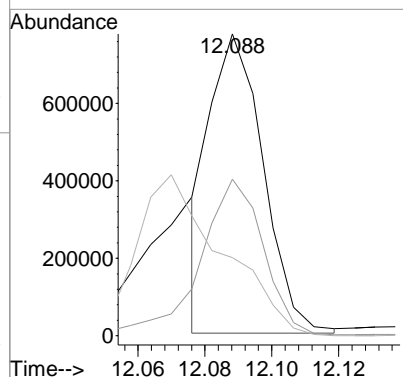
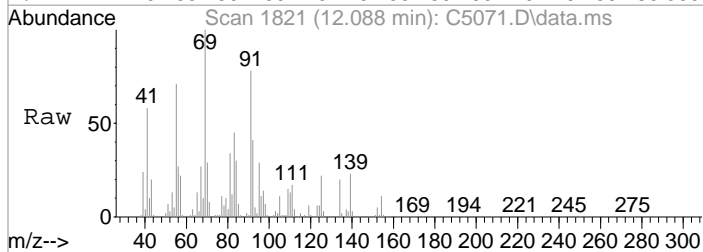
#98  
 p-Isopropyltoluene  
 Concen: 213.04 ug/L  
 RT: 11.753 min Scan# 1766  
 Delta R.T. 0.012 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

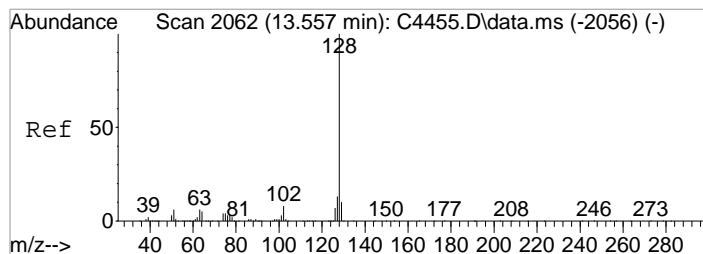
Tgt Ion	Resp	Lower	Upper
119	1236861		
134	25.5	4.9	44.9
91	24.1	3.5	43.5



#101  
 n-Butylbenzene  
 Concen: 162.50 ug/L m  
 RT: 12.088 min Scan# 1821  
 Delta R.T. 0.006 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

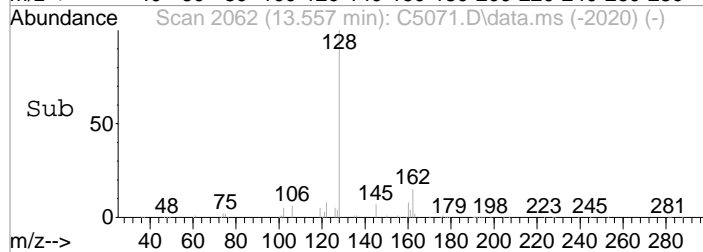
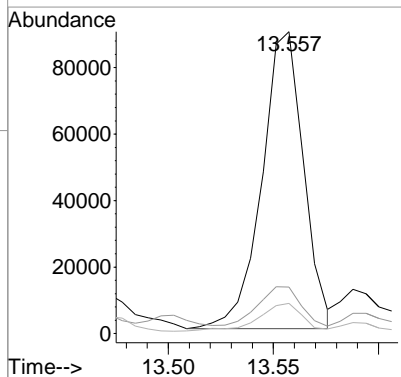
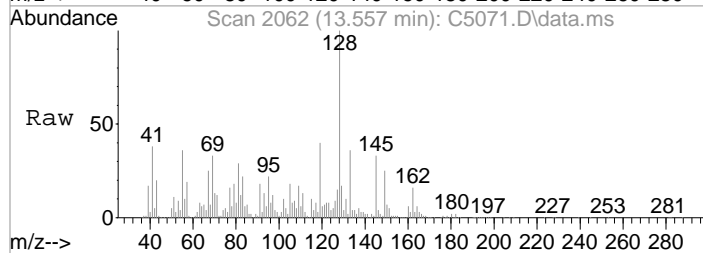
Tgt Ion	Resp	Lower	Upper
91	863298		
92	51.9	34.9	74.9
134	25.9	6.7	46.7





#107  
 Naphthalen  
 Concen: 21.38 ug/L  
 RT: 13.557 min Scan# 2062  
 Delta R.T. 0.000 min  
 Lab File: C5071.D  
 Acq: 22 Feb 2018 11:34 pm

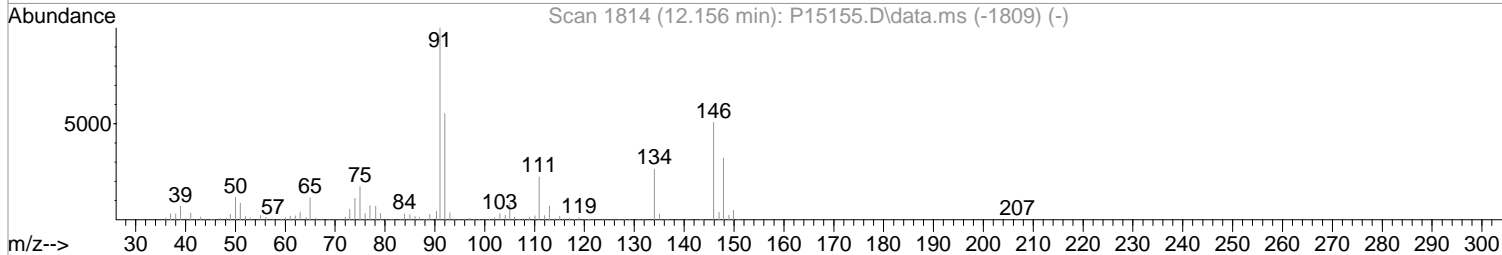
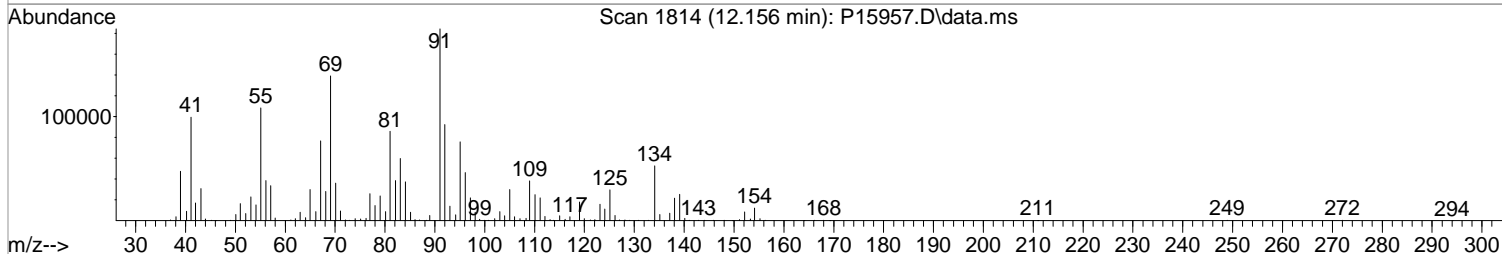
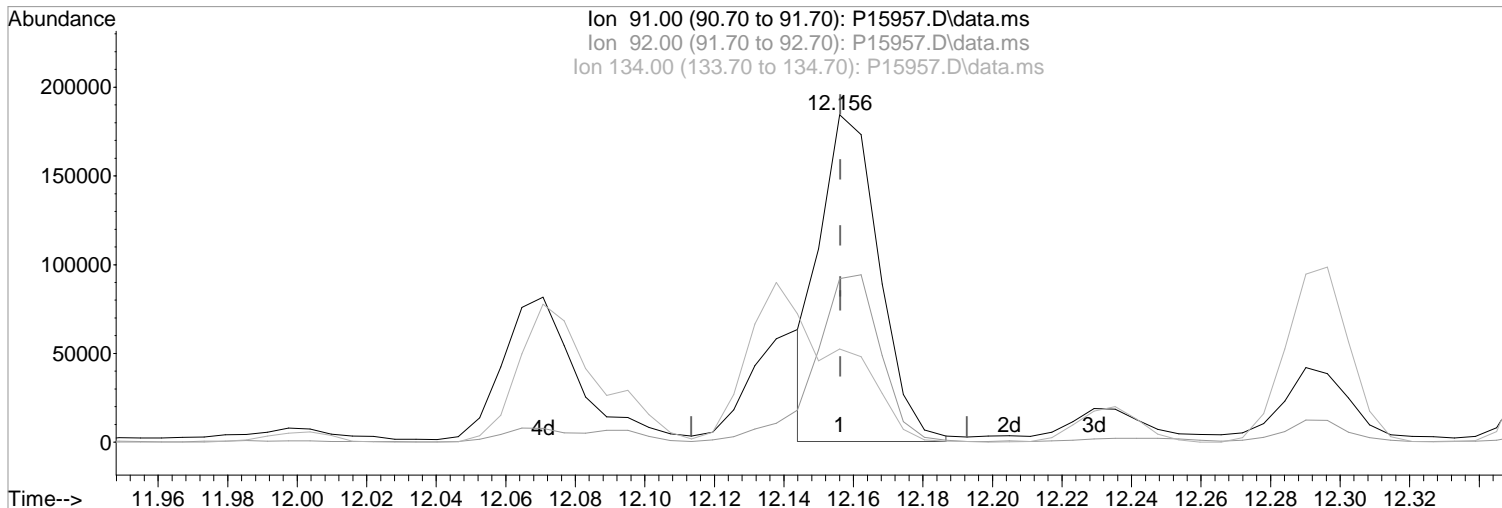
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	123414		
127	15.4	0.0	33.4	
102	10.0	0.0	28.1	



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15957.D  
Acq On : 23 Feb 2018 2:32 pm  
Operator : K.Ruest  
Sample : R1801453-019 | **81.5**  
Misc : DAY 8260 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 14:56:20 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(109) n-Butylbenzene  
12.156min (-0.000) 15.73 ppb m  
response 215869

Manual Integration:

After

Poor integration.

02/26/18

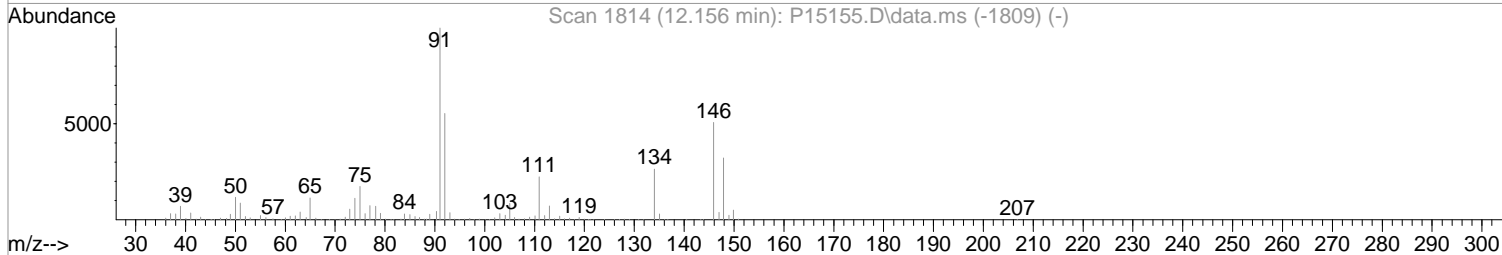
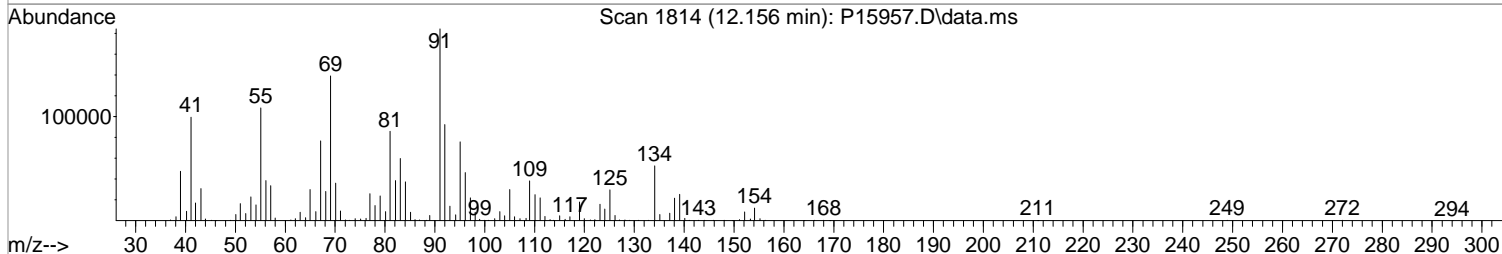
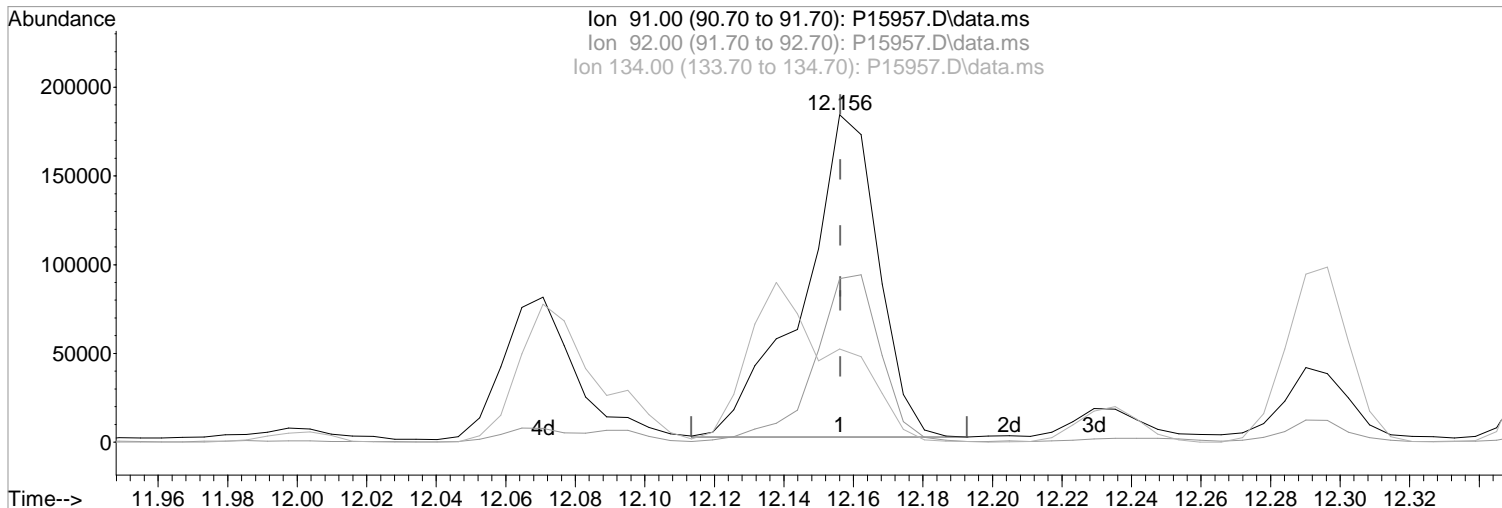
Ion	Exp%	Act%
91.00	100	100
92.00	55.40	50.00
134.00	26.30	28.50
0.00	0.00	0.00



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15957.D  
Acq On : 23 Feb 2018 2:32 pm  
Operator : K.Ruest  
Sample : R1801453-019 | **81.5**  
Misc : DAY 8260 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 14:56:20 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(109) n-Butylbenzene  
12.156min (-0.000) 19.91 ppb  
response 273173

Manual Integration:  
Before

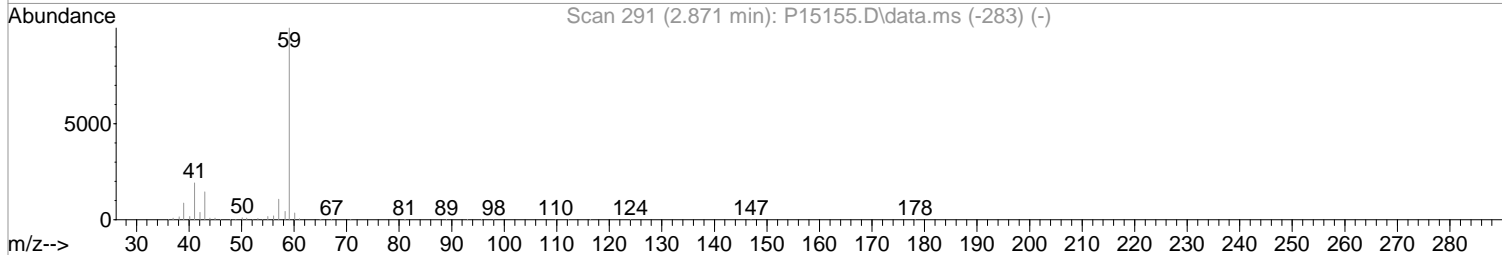
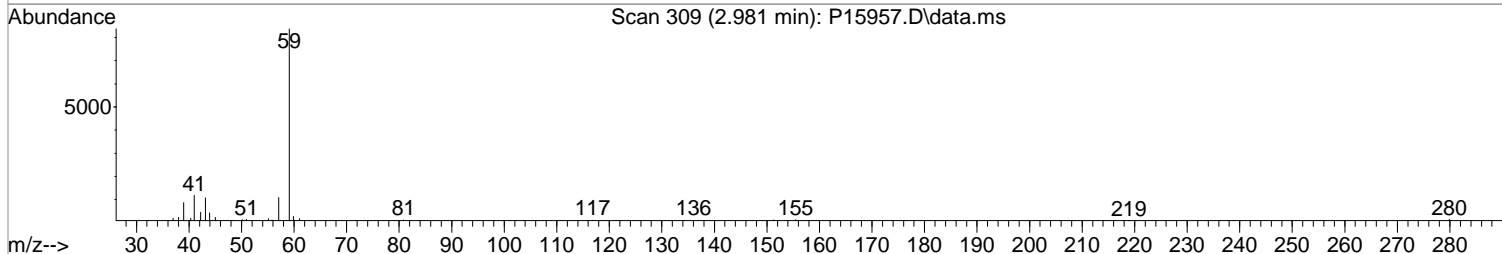
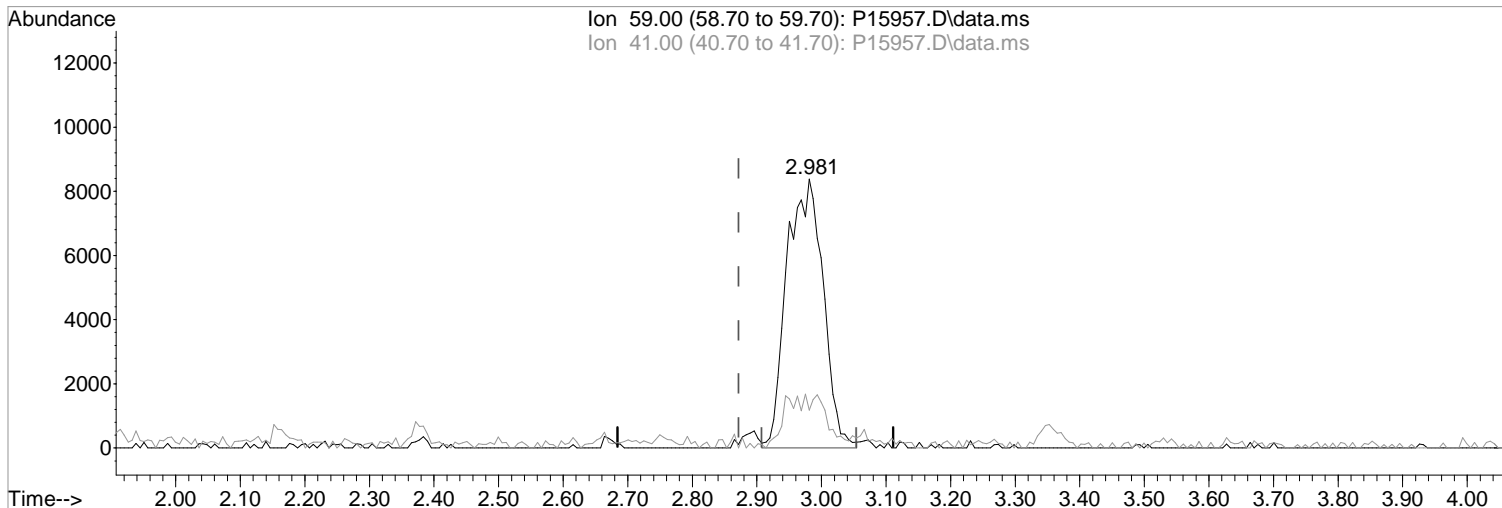
Ion	Exp%	Act%
91.00	100	100
92.00	55.40	50.00
134.00	26.30	28.50
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15957.D  
Acq On : 23 Feb 2018 2:32 pm  
Operator : K.Ruest  
Sample : R1801453-019|⊕ 81.5  
Misc : DAY 8260 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 14:56:20 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15957.D\data.ms

(23) TBA

2.981min (+0.110) 56.50 ppb m

response 32648

Ion	Exp%	Act%
59.00	100	100
41.00	19.40	14.12
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

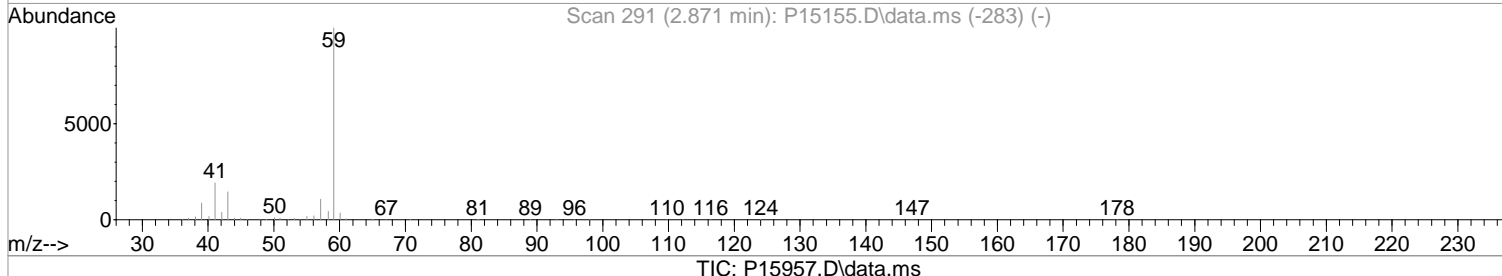
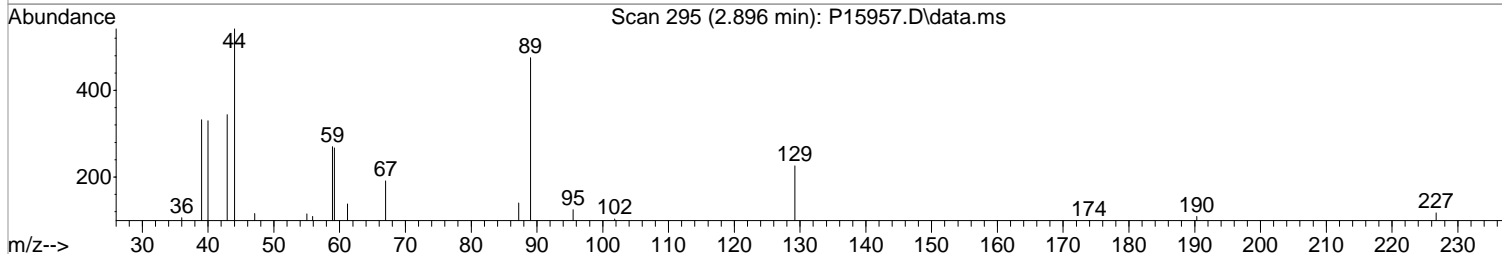
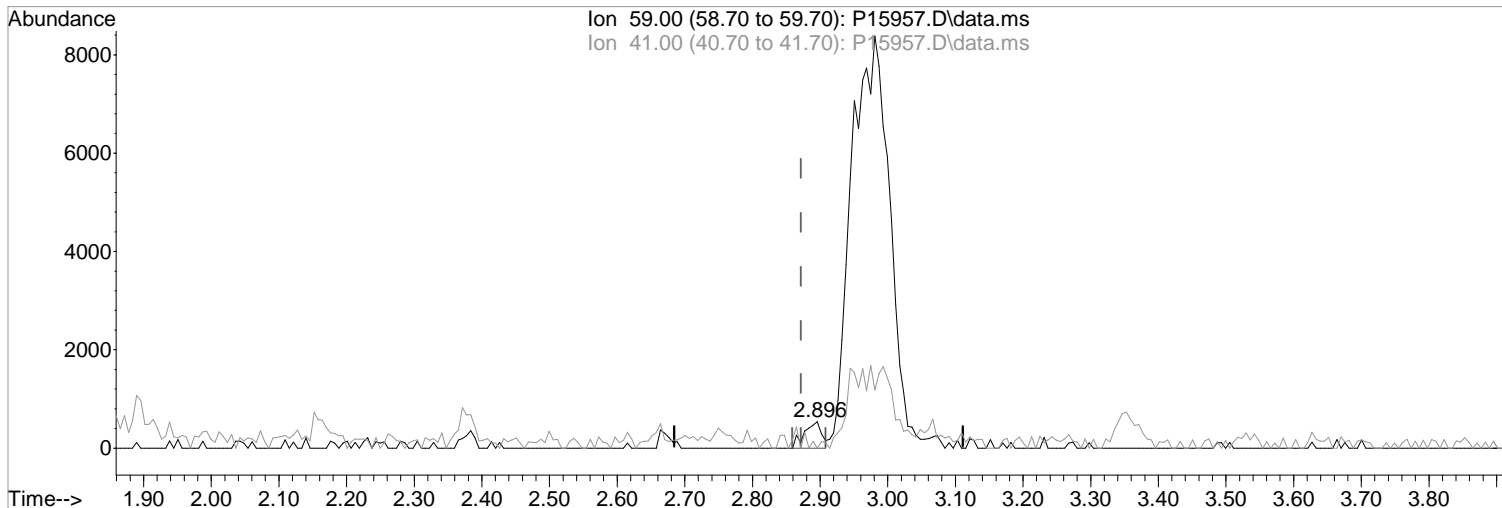
Peak not found.

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15957.D  
Acq On : 23 Feb 2018 2:32 pm  
Operator : K.Ruest  
Sample : R1801453-019 |  $\oplus$  81.5  
Misc : DAY 8260 T4  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 14:56:20 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(23) TBA  
2.896min (+0.024) 1.63 ppb  
response 944

Manual Integration:  
Before

Ion	Exp%	Act%
59.00	100	100
41.00	19.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
 Data File : P15957.D  
 Acq On : 23 Feb 2018 2:32 pm  
 Operator : K.Ruest  
 Sample : R1801453-019|⊕ 81.5 Inst : MSVOA-12  
 Misc : DAY 8260 T4  
 ALS Vial : 5 Sample Multiplier: 1

DL

Quant Time: Feb 26 11:06:45 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

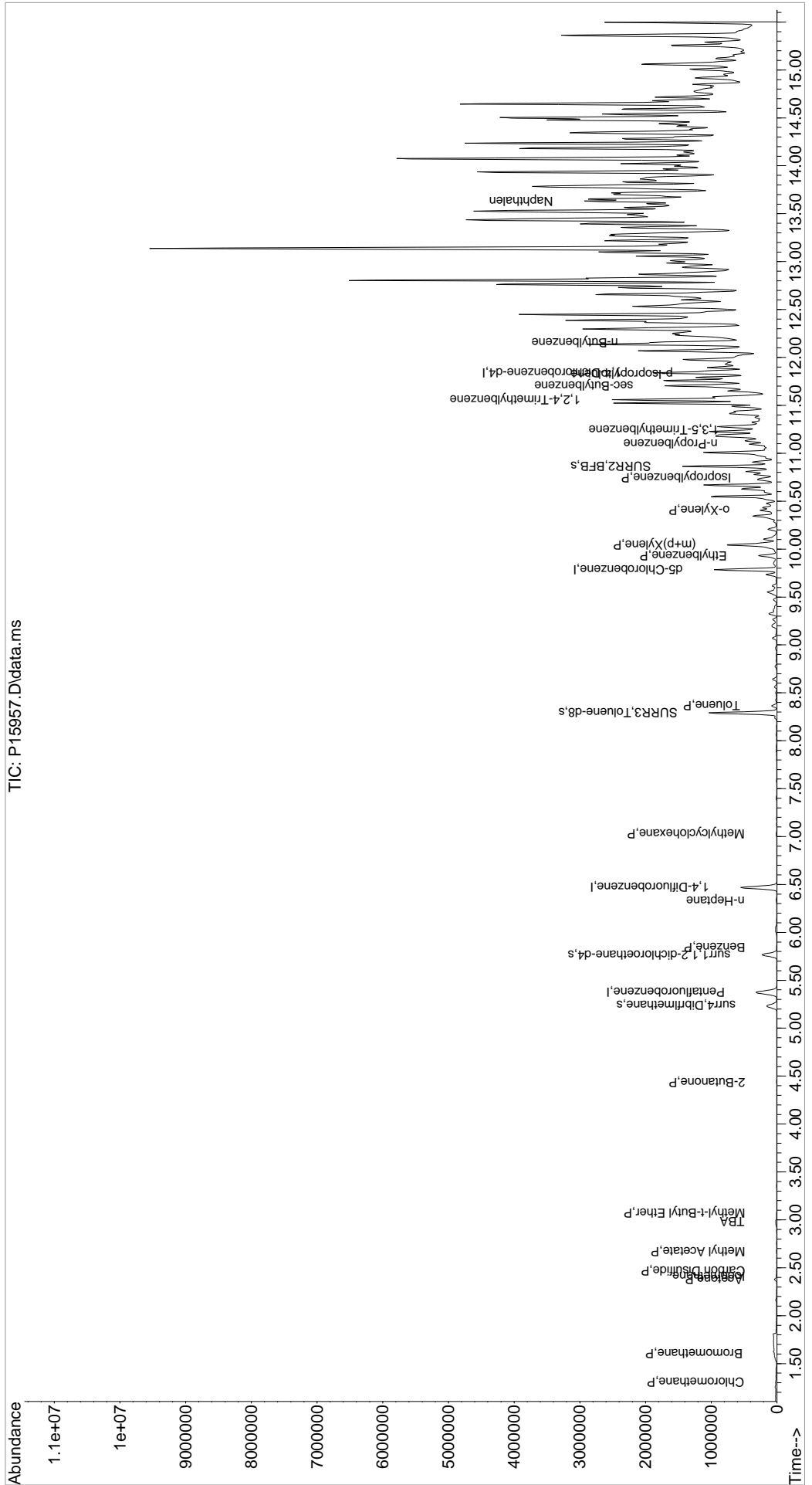
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.377	168	286530	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	470367	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	420367	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	250398	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.237	113	128180	45.90	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	91.80%			
48) surr1,1,2-dichloroetha...	5.767	65	190534	49.79	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.58%			
65) SURR3,Toluene-d8	8.291	98	628217	50.38	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.76%			
70) SURR2,BFB	10.864	95	246785	51.15	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	102.30%			
Target Compounds							
							Qvalue
3) Chloromethane	1.305	50	1927	0.44	ppb		81
5) Bromomethane	1.603	94	2030	0.47	ppb		85
15) Acetone	2.377	43	36790	21.06	ppb		97
17) Iodomethane	2.414	142	2261	5.48	ppb		93
18) Carbon Disulfide	2.469	76	3548	0.41	ppb		86
21) Methyl Acetate	2.670	43	3750	1.20	ppb		92
23) TBA	2.981	59	32648m	56.50	ppb		
25) Methyl-t-Butyl Ether	3.072	73	2738	0.26	ppb		84
35) 2-Butanone	4.432	43	5154	2.35	ppb		92
49) Benzene	5.846	78	3717	0.30	ppb		92
52) n-Heptane	6.328	43	6379	1.51	ppb	#	68
55) Methylcyclohexane	7.029	55	4205	1.03	ppb	#	64
66) Toluene	8.364	91	50054	3.75	ppb		96
82) Ethylbenzene	9.931	106	38158	8.39	ppb		99
83) (m+p)Xylene	10.041	106	160884	29.23	ppb		97
84) o-Xylene	10.400	106	41386	7.51	ppb		93
89) Isopropylbenzene	10.742	105	36463	2.22	ppb		99
95) n-Propylbenzene	11.095	91	169101	8.84	ppb		100
99) 1,3,5-Trimethylbenzene	11.248	105	33428	2.43	ppb		91
101) 1,2,4-Trimethylbenzene	11.559	105	690714	50.12	ppb		98
103) sec-Butylbenzene	11.705	105	88507	5.06	ppb		100
104) p-Isopropyltoluene	11.827	119	113969	7.75	ppb		98
109) n-Butylbenzene	12.156	91	215869m	15.73	ppb		
117) Naphthalen	13.631	128	1272424	83.00	ppb		98

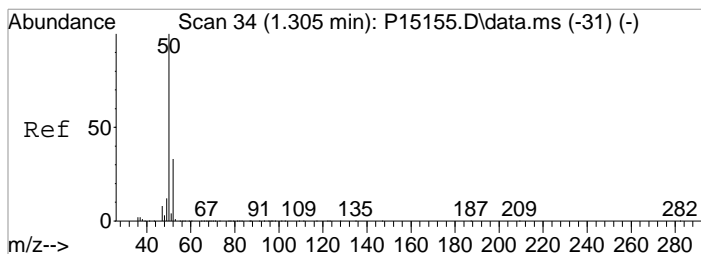
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\022318\  
 Data File : P15957.D  
 Acq On : 23 Feb 2018 2:32 pm  
 Operator : K.Ruest  
 Sample : R1801453-019|0  
 Misc : DAY 8260 T4  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

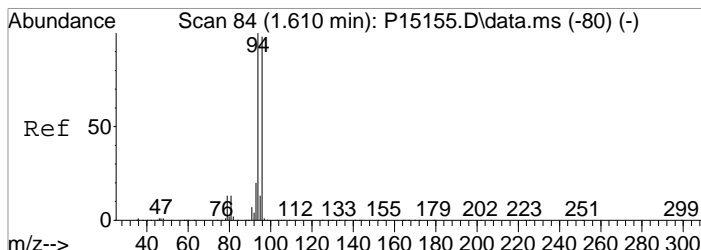
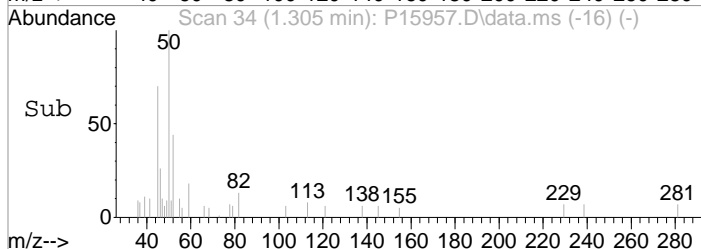
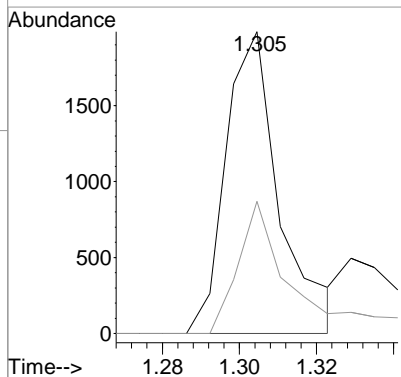
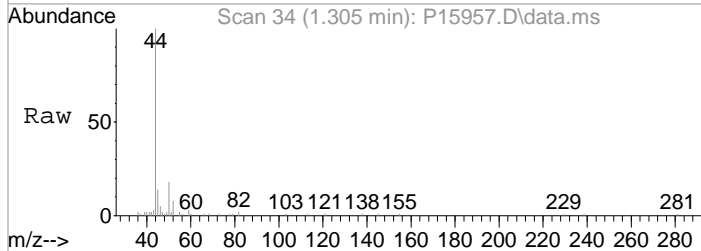
Quant Time: Feb 26 11:06:45 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration





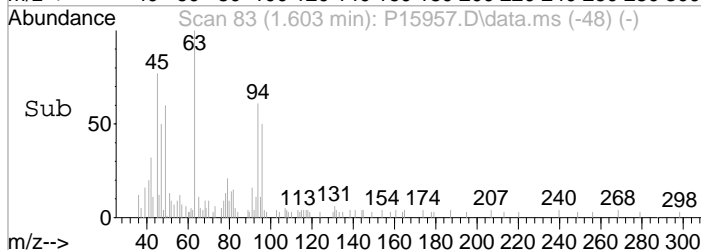
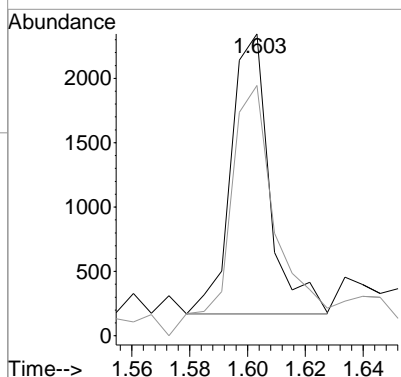
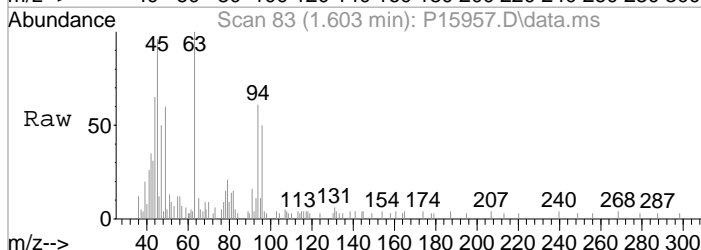
#3  
 Chloromethane  
 Concen: 0.44 ppb  
 RT: 1.305 min Scan# 34  
 Delta R.T. -0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

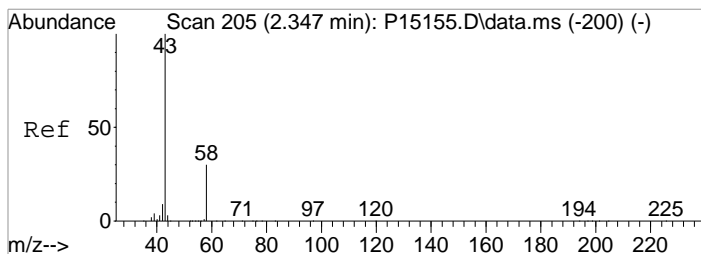
Tgt Ion	Resp	Lower	Upper
50	1927		
52	43.8	12.8	52.8



#5  
 Bromomethane  
 Concen: 0.47 ppb  
 RT: 1.603 min Scan# 83  
 Delta R.T. -0.012 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

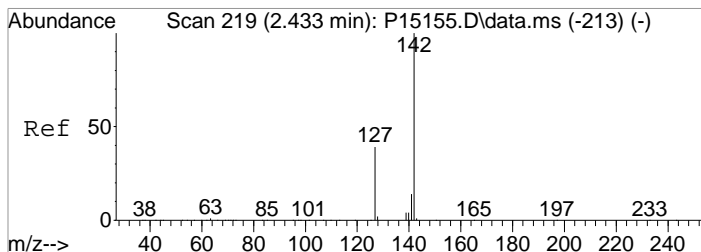
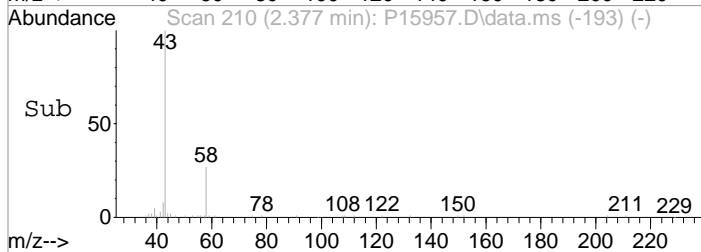
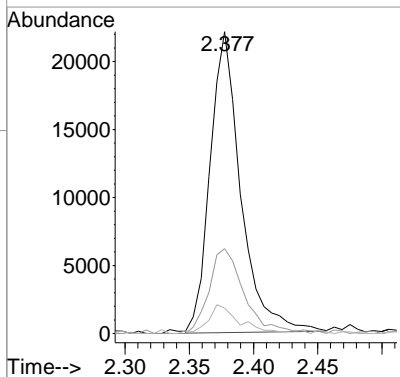
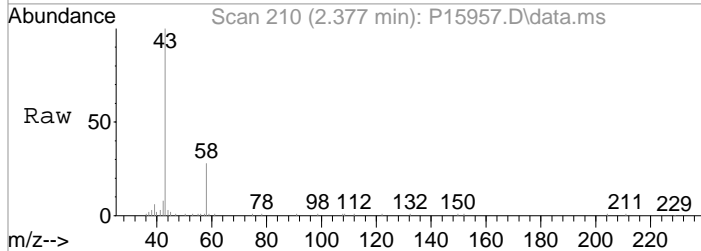
Tgt Ion	Resp	Lower	Upper
94	2030		
96	82.9	77.7	117.7





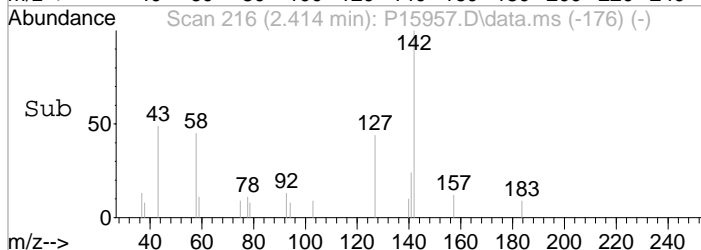
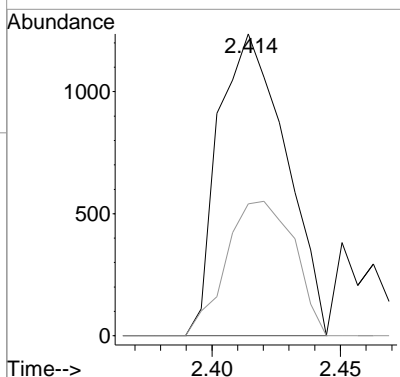
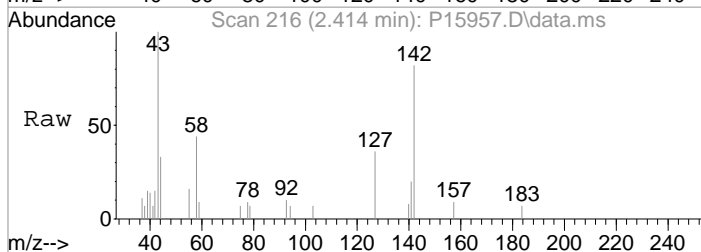
#15  
 Acetone  
 Concen: 21.06 ppb  
 RT: 2.377 min Scan# 210  
 Delta R.T. 0.030 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

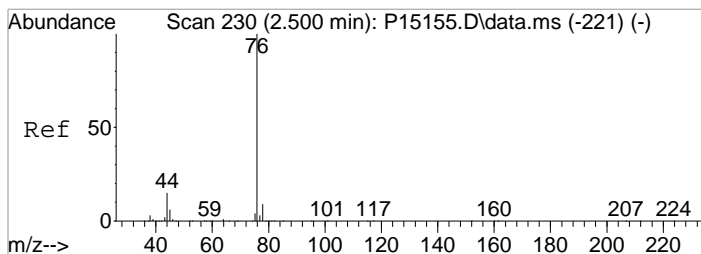
Tgt Ion	Resp	Lower	Upper
43	36790		
58	28.1	9.7	49.7
42	8.4	0.0	29.2



#17  
 Iodomethane  
 Concen: 5.48 ppb  
 RT: 2.414 min Scan# 216  
 Delta R.T. -0.018 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

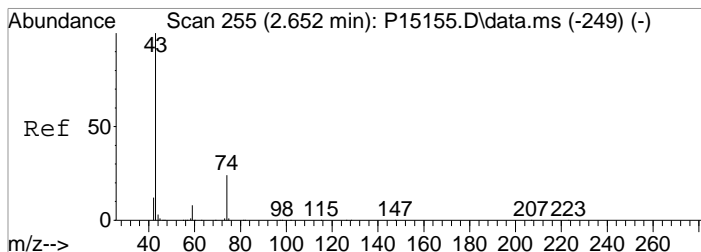
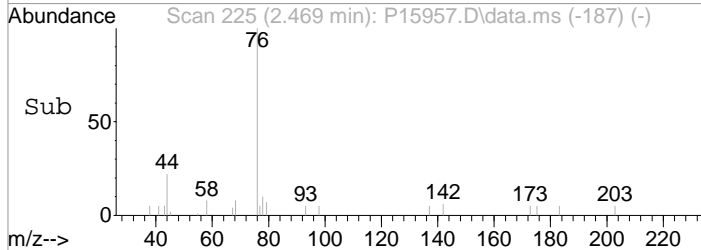
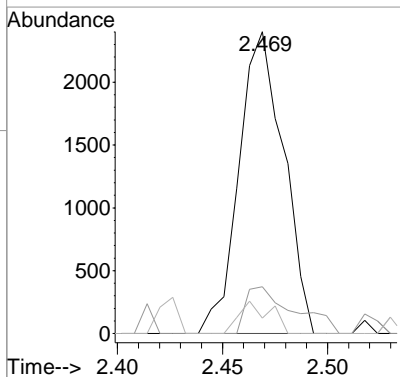
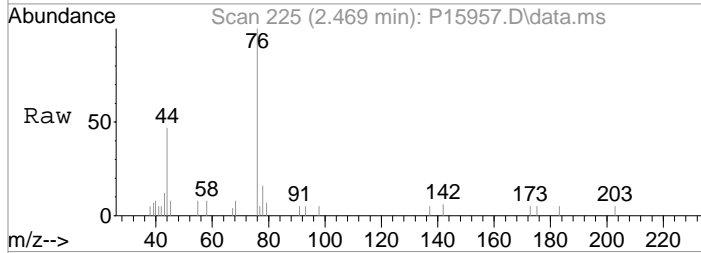
Tgt Ion	Resp	Lower	Upper
142	2261		
142	100		
127	43.7	19.1	59.1





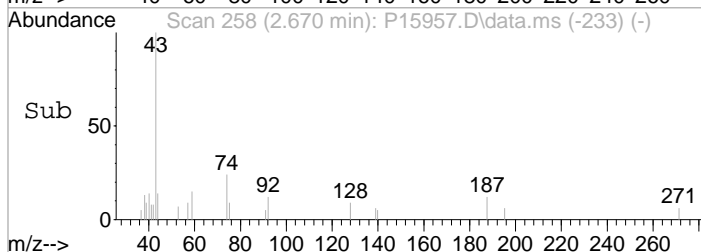
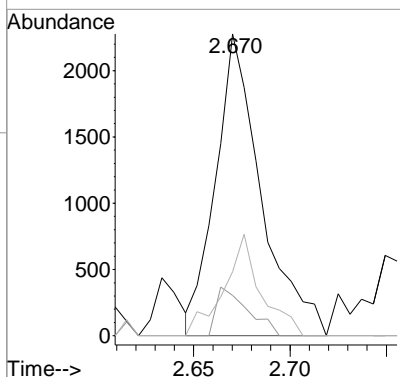
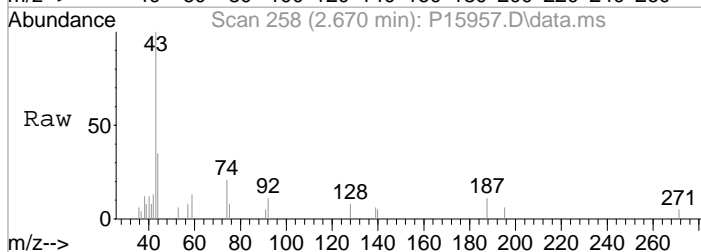
#18  
 Carbon Disulfide  
 Concen: 0.41 ppb  
 RT: 2.469 min Scan# 225  
 Delta R.T. -0.025 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

Tgt Ion	Resp	Lower	Upper
76	3548		
78	15.5	0.0	29.5
77	5.1	0.0	23.1

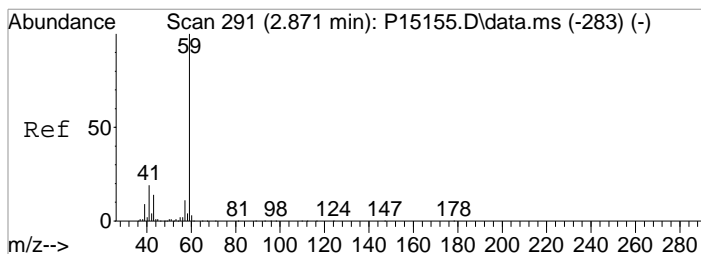


#21  
 Methyl Acetate  
 Concen: 1.20 ppb  
 RT: 2.670 min Scan# 258  
 Delta R.T. 0.012 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

Tgt Ion	Resp	Lower	Upper
43	3750		
59	13.4	0.0	27.6
74	21.2	3.8	43.8

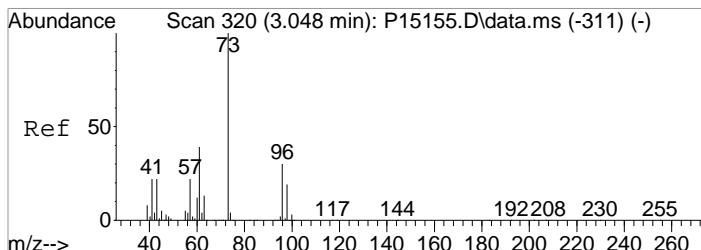
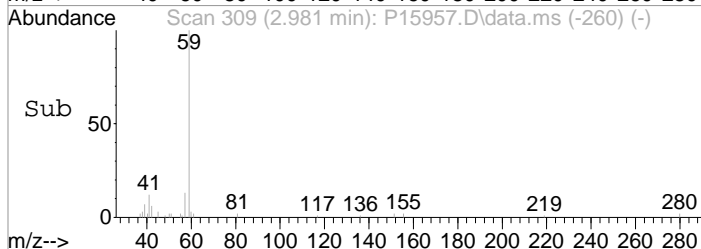
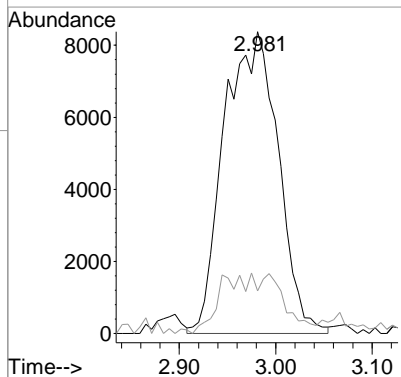
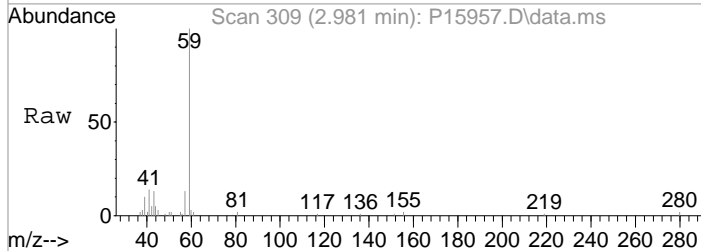






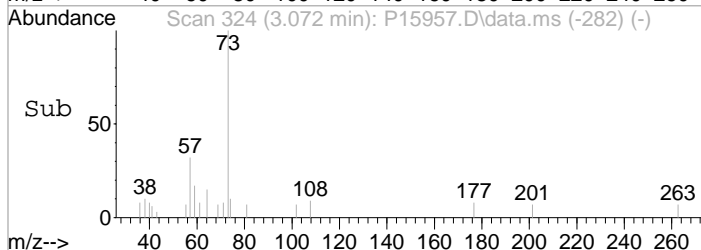
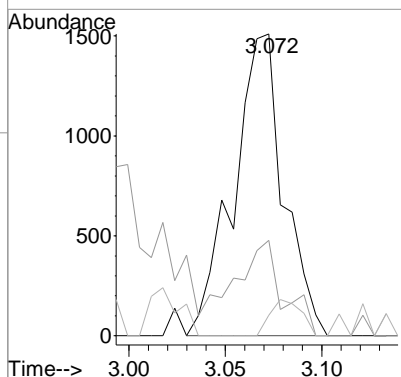
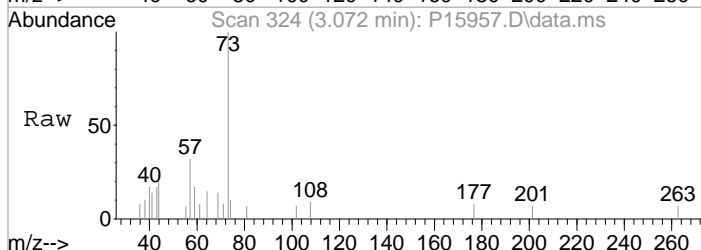
#23  
 TBA  
 Concen: 56.50 ppb m  
 RT: 2.981 min Scan# 309  
 Delta R.T. 0.110 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

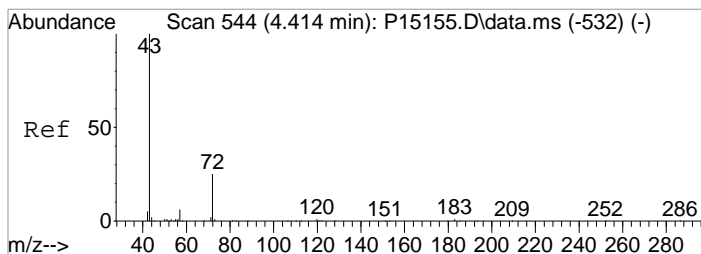
Tgt Ion	Resp	Lower	Upper
59	32648		
41	14.1	0.0	39.4



#25  
 Methyl-t-Butyl Ether  
 Concen: 0.26 ppb  
 RT: 3.072 min Scan# 324  
 Delta R.T. 0.018 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

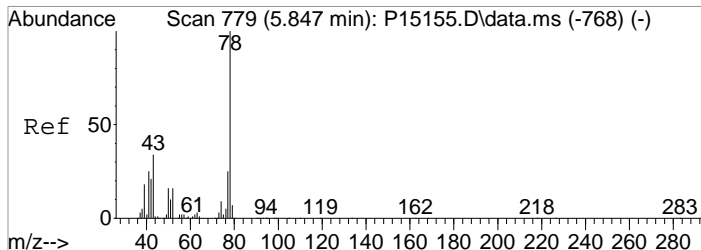
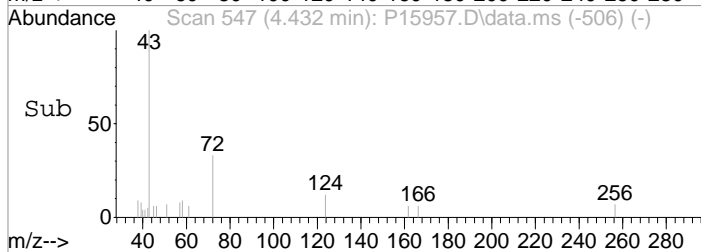
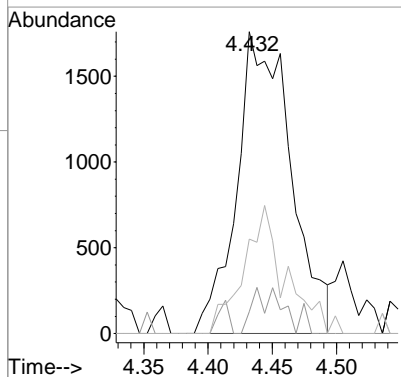
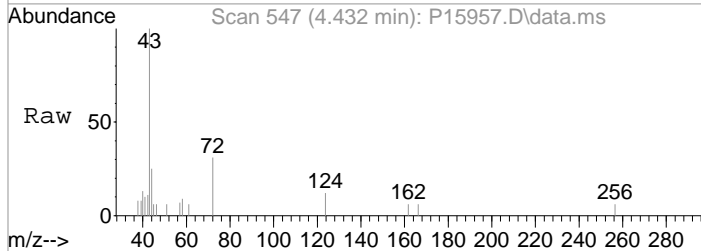
Tgt Ion	Resp	Lower	Upper
73	2738		
57	31.6	2.6	42.6
55	6.8	0.0	25.0





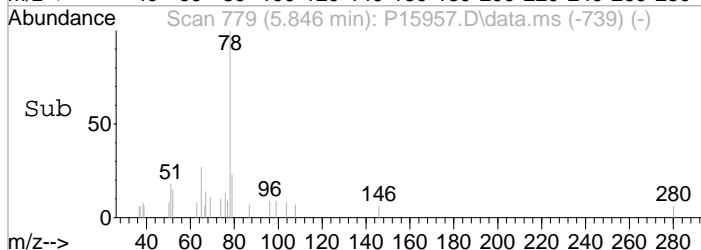
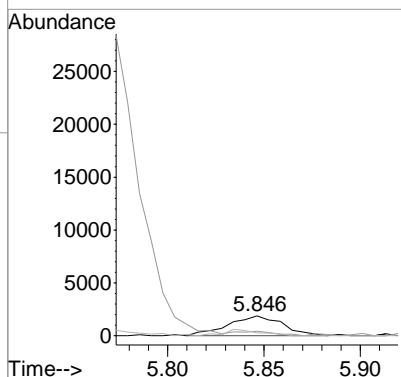
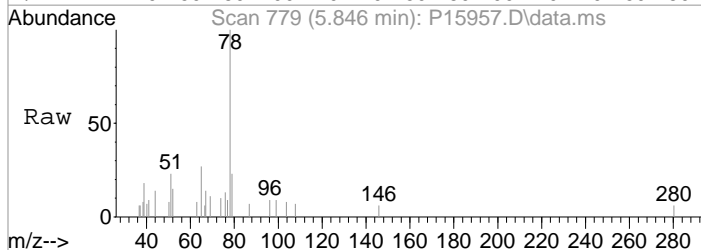
#35  
 2-Butanone  
 Concen: 2.35 ppb  
 RT: 4.432 min Scan# 547  
 Delta R.T. 0.024 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

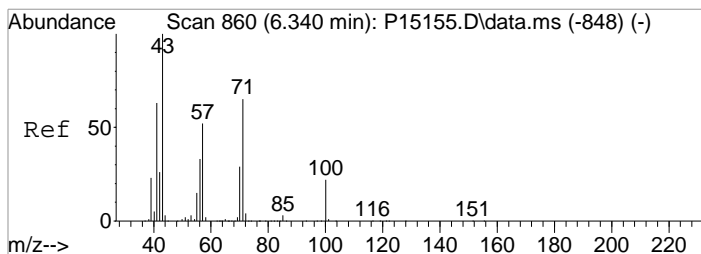
Tgt Ion	Resp	Lower	Upper
43	5154		
57	7.2	0.0	26.7
72	31.3	6.1	46.1



#49  
 Benzene  
 Concen: 0.30 ppb  
 RT: 5.846 min Scan# 779  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

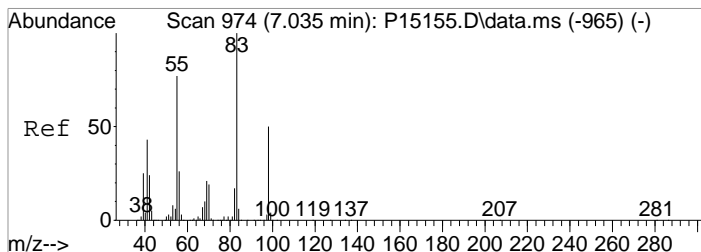
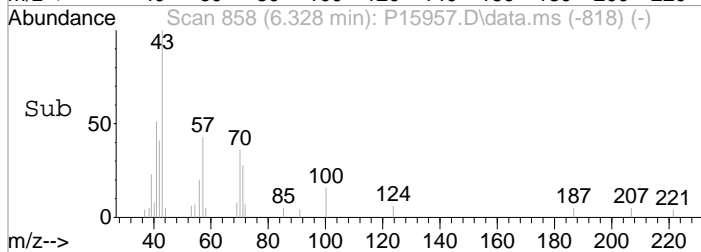
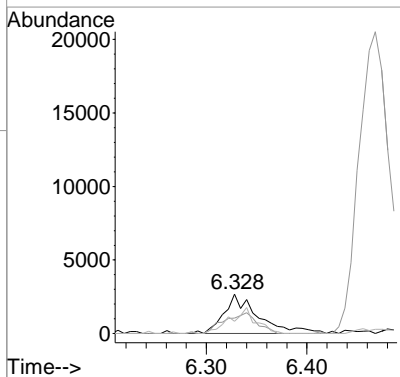
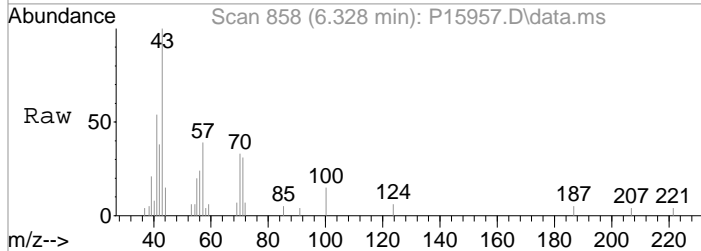
Tgt Ion	Resp	Lower	Upper
78	3717		
51	23.1	0.0	37.0
52	15.4	0.0	35.9





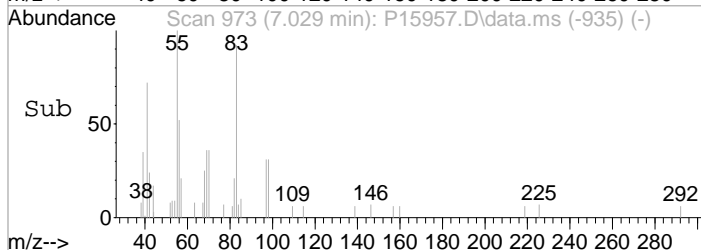
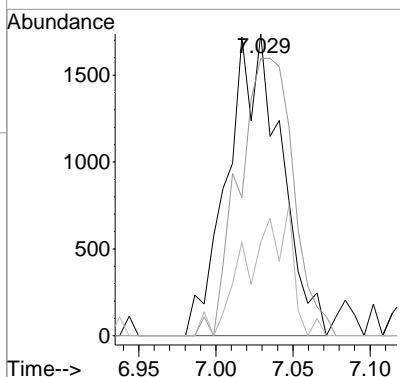
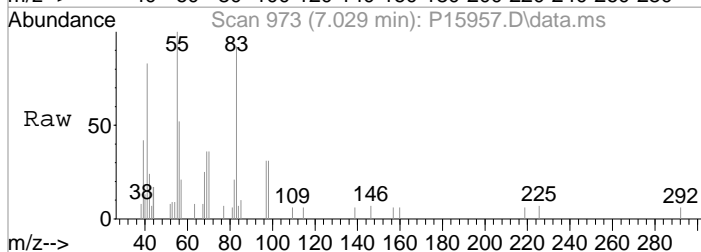
#52  
 n-Heptane  
 Concen: 1.51 ppb  
 RT: 6.328 min Scan# 858  
 Delta R.T. 0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

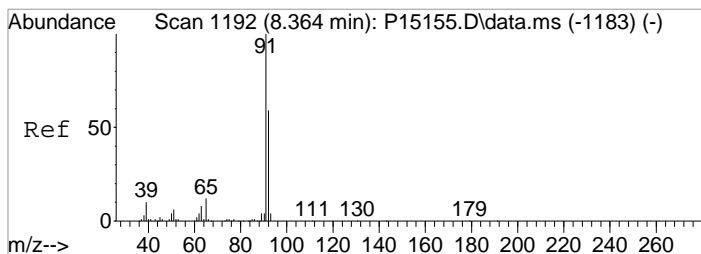
Tgt Ion	Resp	Lower	Upper
43	6379		
57	39.1	32.1	72.1
71	31.0	45.3	85.3#



#55  
 Methylcyclohexane  
 Concen: 1.03 ppb  
 RT: 7.029 min Scan# 973  
 Delta R.T. -0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

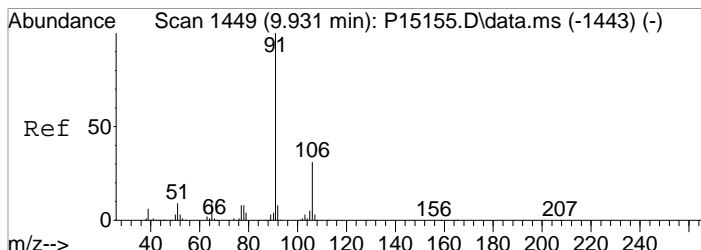
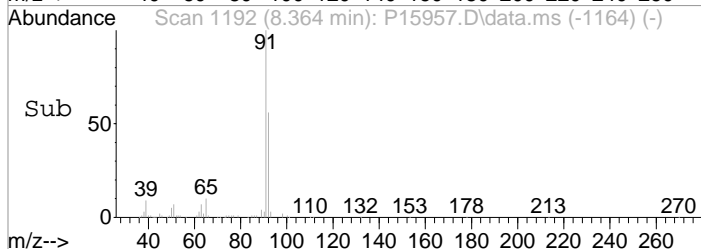
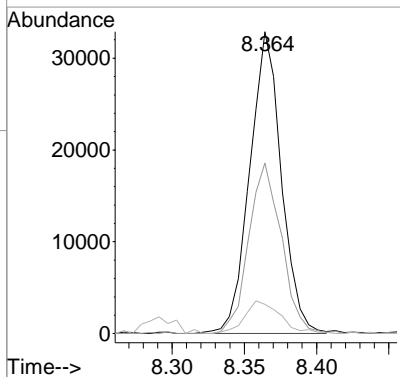
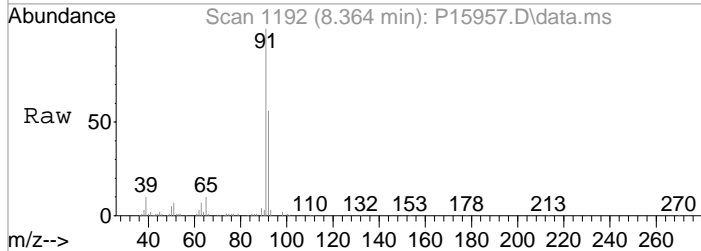
Tgt Ion	Resp	Lower	Upper
55	4205		
83	91.8	110.2	150.2#
98	31.0	44.6	84.6#





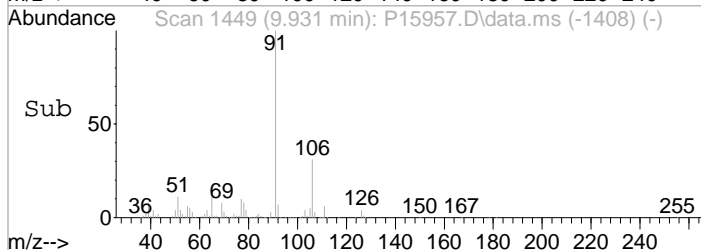
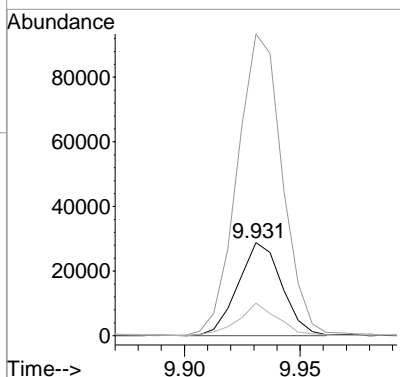
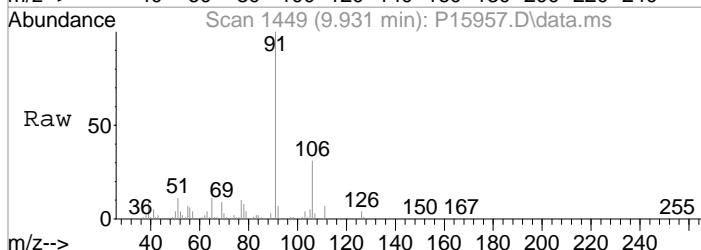
#66  
 Toluene  
 Concen: 3.75 ppb  
 RT: 8.364 min Scan# 1192  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

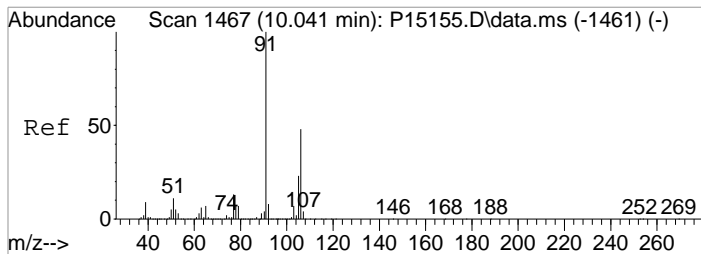
Tgt Ion	Resp	Lower	Upper
91	100		
92	56.5	39.4	79.4
65	9.6	0.0	31.9



#82  
 Ethylbenzene  
 Concen: 8.39 ppb  
 RT: 9.931 min Scan# 1449  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

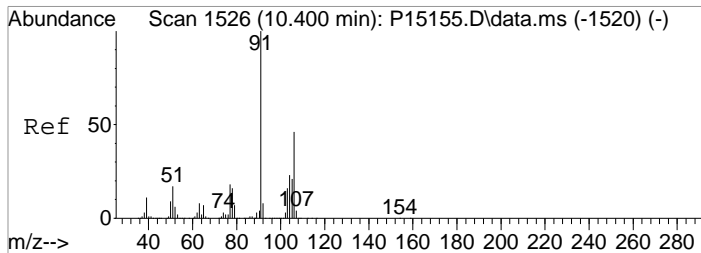
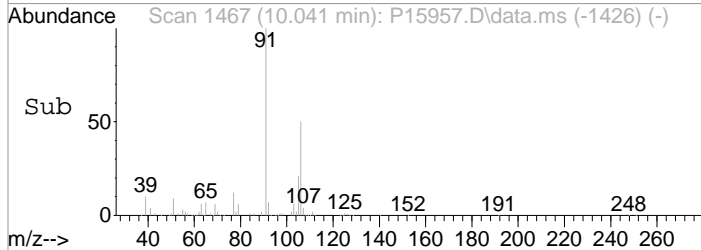
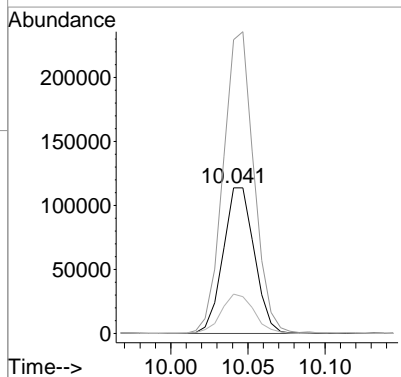
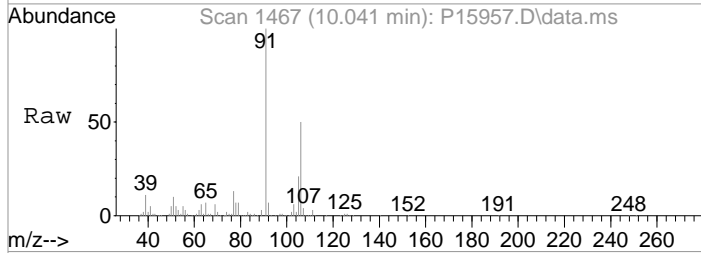
Tgt Ion	Resp	Lower	Upper
106	100		
91	324.0	304.6	344.6
65	35.2	9.0	49.0





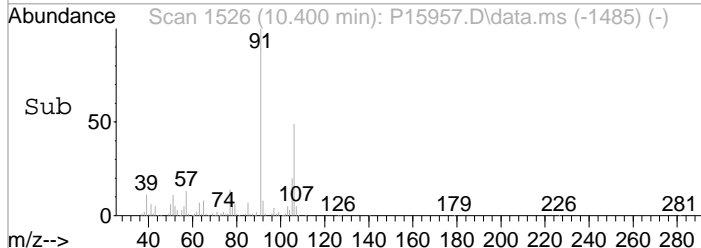
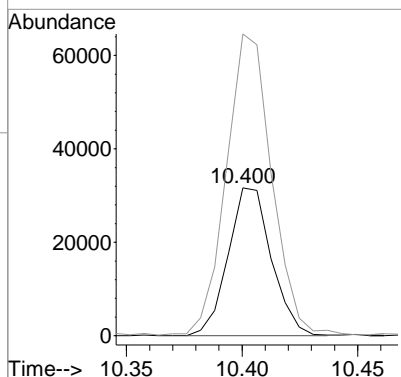
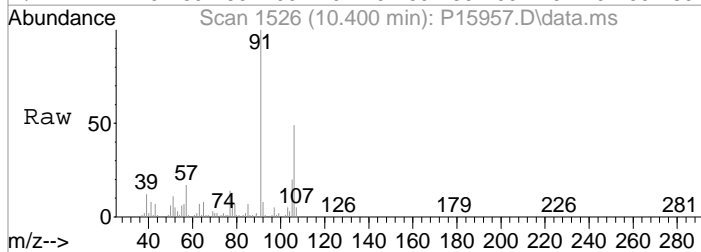
#83  
 (m+p)Xylene  
 Concen: 29.23 ppb  
 RT: 10.041 min Scan# 1467  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

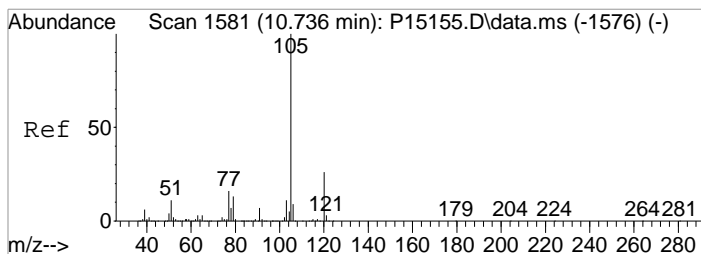
Tgt Ion	Resp	Lower	Upper
106	160884		
106	100		
91	201.4	187.1	227.1
77	27.1	7.6	47.6



#84  
 o-Xylene  
 Concen: 7.51 ppb  
 RT: 10.400 min Scan# 1526  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

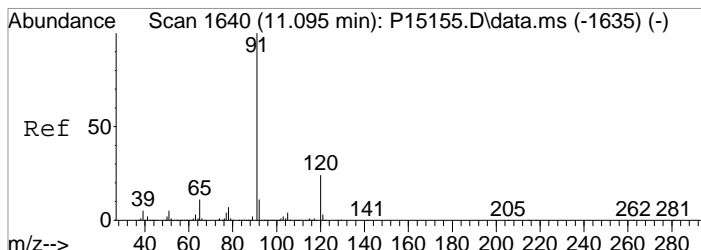
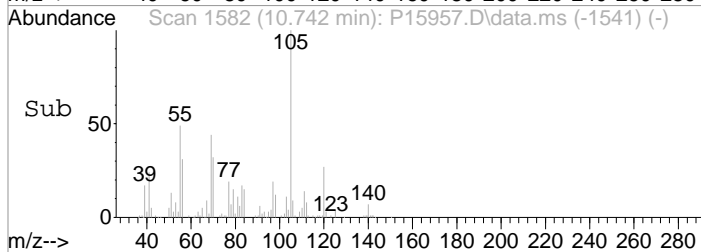
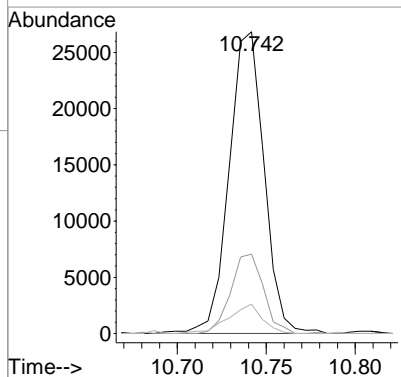
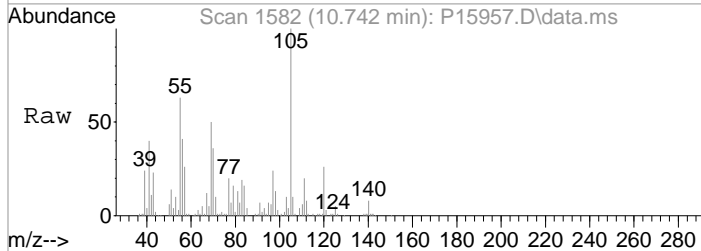
Tgt Ion	Resp	Lower	Upper
106	41386		
106	100		
91	204.0	195.5	235.5





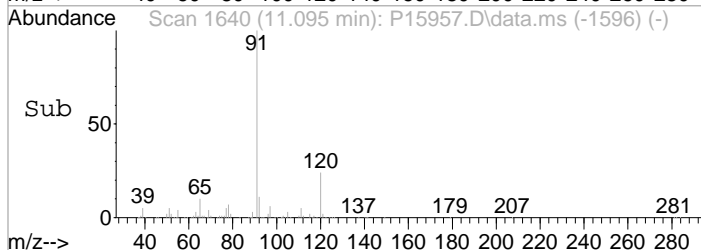
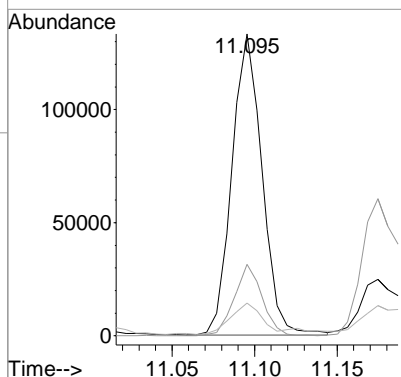
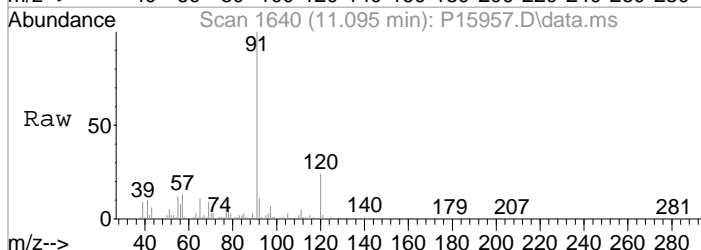
#89  
 Isopropylbenzene  
 Concen: 2.22 ppb  
 RT: 10.742 min Scan# 1582  
 Delta R.T. 0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

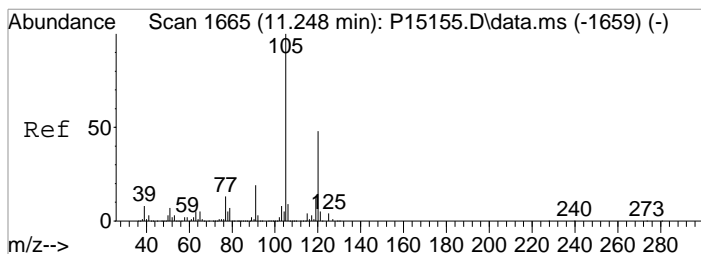
Tgt Ion	Ion	Resp	Lower	Upper
105	100	36463		
120	26.3	6.4	46.4	
106	9.8	0.0	29.2	



#95  
 n-Propylbenzene  
 Concen: 8.84 ppb  
 RT: 11.095 min Scan# 1640  
 Delta R.T. 0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

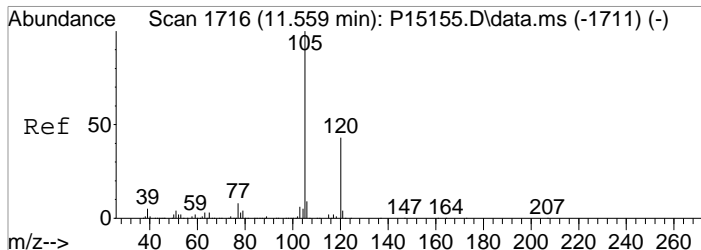
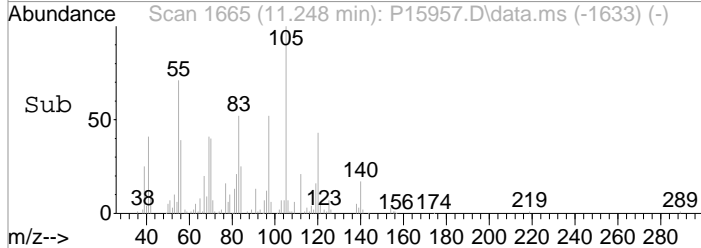
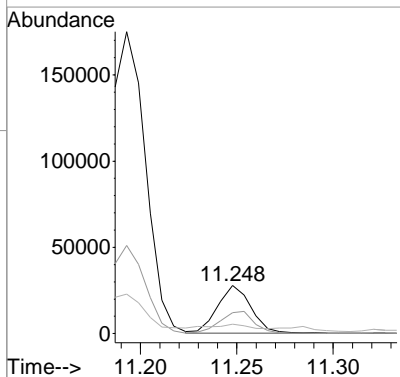
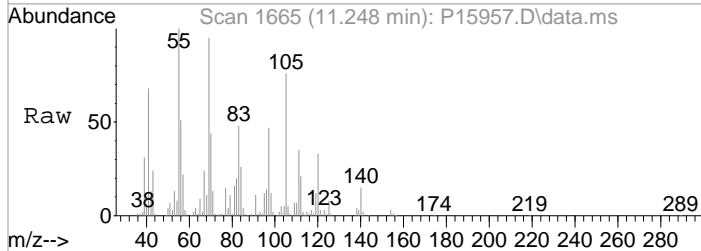
Tgt Ion	Ion	Resp	Lower	Upper
91	100	169101		
120	23.6	3.5	43.5	
65	10.8	0.0	30.5	





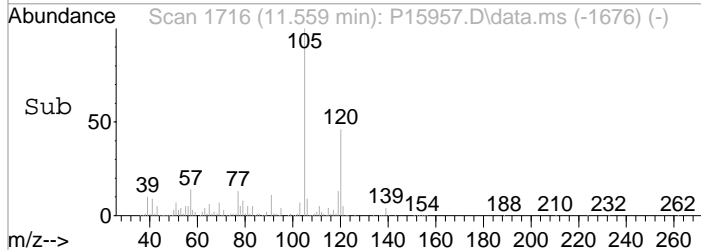
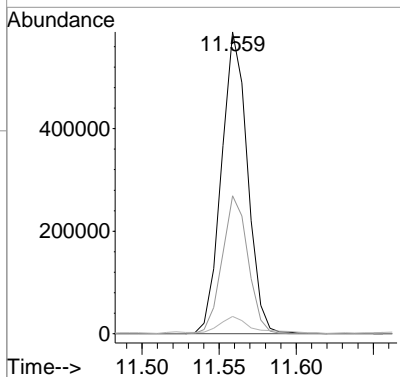
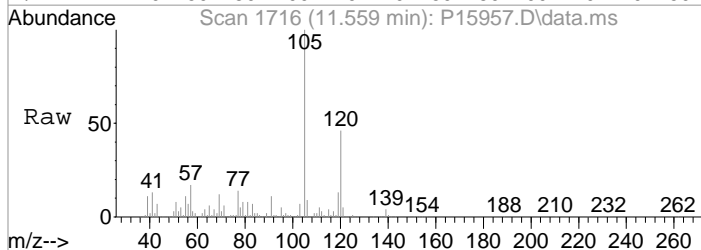
#99  
 1,3,5-Trimethylbenzene  
 Concen: 2.43 ppb  
 RT: 11.248 min Scan# 1665  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

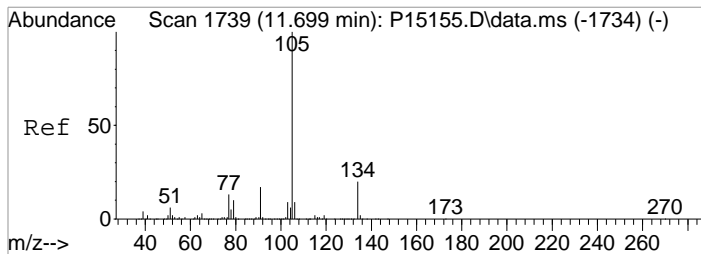
Tgt Ion	Resp	Lower	Upper
105	100		
120	43.5	28.4	68.4
77	19.3	0.0	33.3



#101  
 1,2,4-Trimethylbenzene  
 Concen: 50.12 ppb  
 RT: 11.559 min Scan# 1716  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

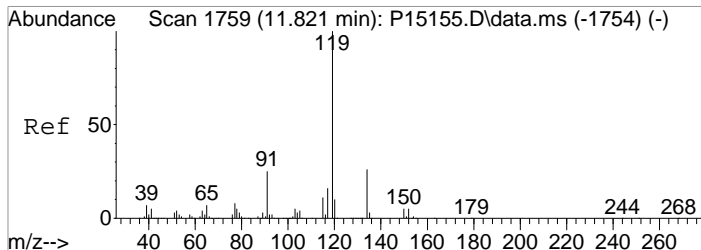
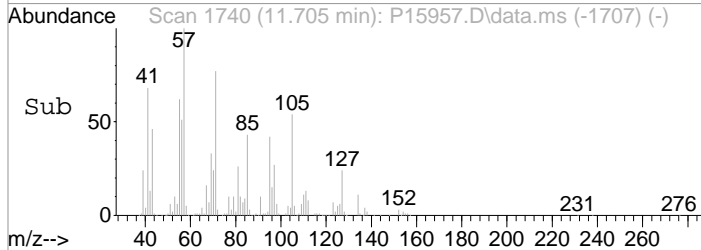
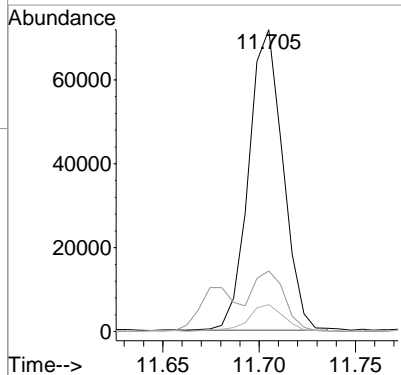
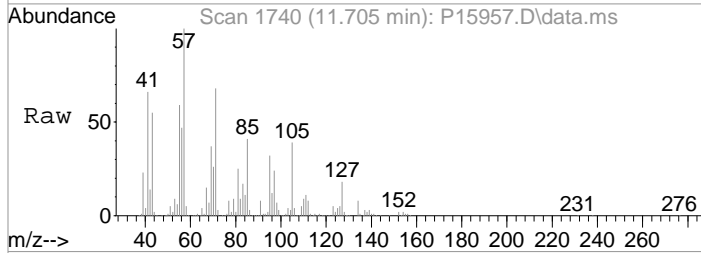
Tgt Ion	Resp	Lower	Upper
105	100		
120	45.7	26.6	66.6
65	5.8	0.0	24.8





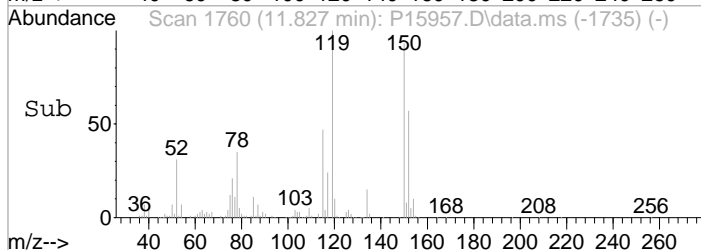
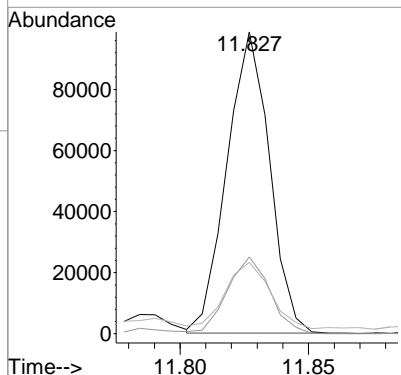
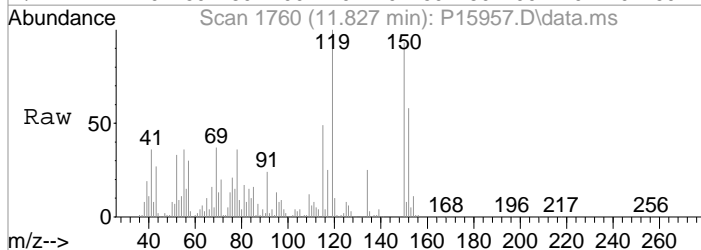
#103  
 sec-Butylbenzene  
 Concen: 5.06 ppb  
 RT: 11.705 min Scan# 1740  
 Delta R.T. 0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

Tgt Ion	Resp	Lower	Upper
105	88507		
134	20.1	0.2	40.2
103	8.9	0.0	28.8

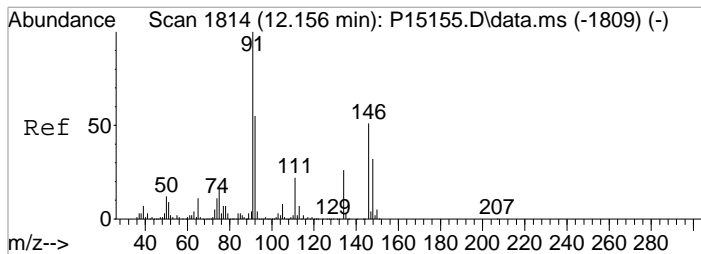


#104  
 p-Isopropyltoluene  
 Concen: 7.75 ppb  
 RT: 11.827 min Scan# 1760  
 Delta R.T. 0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

Tgt Ion	Resp	Lower	Upper
119	113969		
134	25.5	6.5	46.5
91	23.7	4.5	44.5

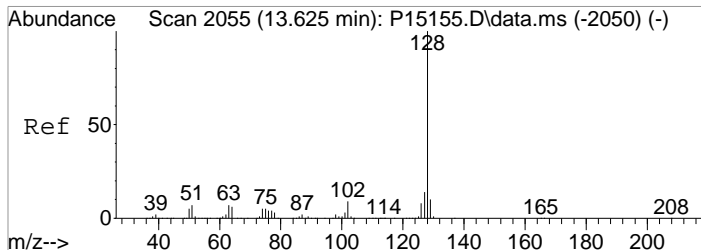
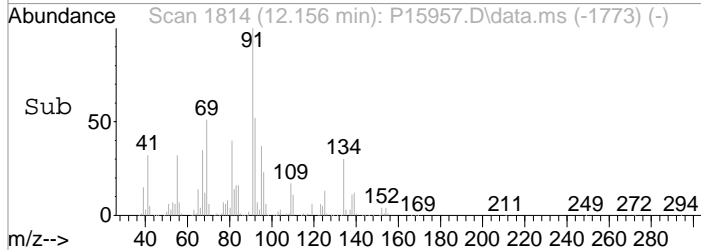
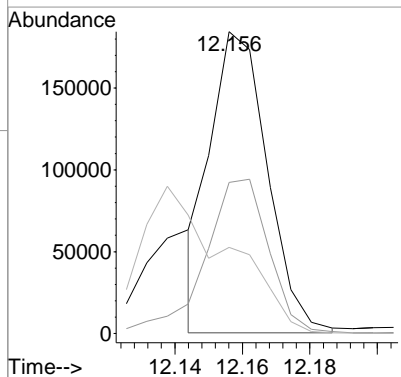
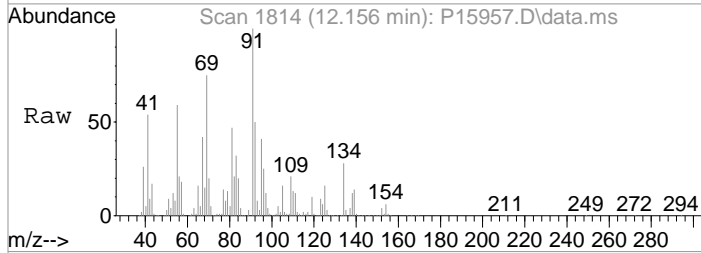






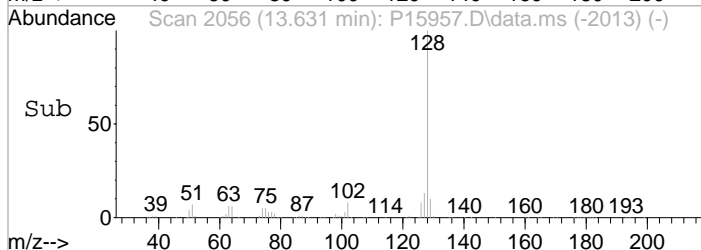
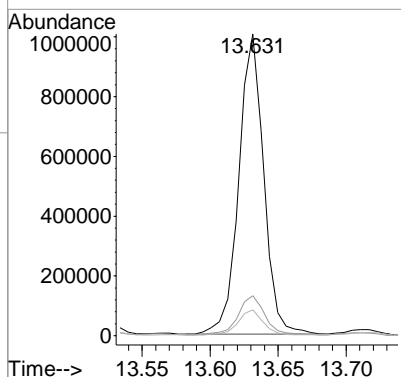
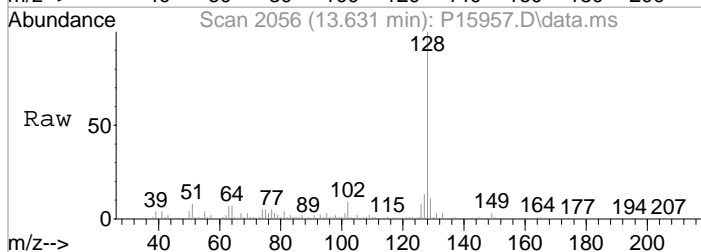
#109  
 n-Butylbenzene  
 Concen: 15.73 ppb m  
 RT: 12.156 min Scan# 1814  
 Delta R.T. -0.000 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

Tgt Ion	Resp	Lower	Upper
91	100		
92	50.0	35.4	75.4
134	28.5	6.3	46.3



#117  
 Naphthalen  
 Concen: 83.00 ppb  
 RT: 13.631 min Scan# 2056  
 Delta R.T. 0.006 min  
 Lab File: P15957.D  
 Acq: 23 Feb 2018 2:32 pm

Tgt Ion	Resp	Lower	Upper
128	100		
127	13.3	0.0	34.0
102	8.6	0.0	29.1



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5048.D  
 Acq On : 22 Feb 2018 2:48 pm  
 Operator : K.Ruest  
 Sample : VBLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 15:04:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	227543	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	339094	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	301650	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	155391	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	104594	49.53	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	99.06%	
47) SURR1,1,2-dichloroetha...	5.114	65	131021	51.80	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	103.60%	
64) SURR3,Toluene-d8	7.949	98	415886	51.50	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	103.00%	
69) SURR2,BFB	10.729	95	160976	49.41	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	98.82%	
Target Compounds						
15) Acetone	2.042	43	6547	6.35	ug/L	98
16) 2-Propanol	2.170	45	1095	4.66	ug/L	72
23) TBA	2.505	59	6376	15.21	ug/L	96
72) 2-Hexanone	8.876	43	421	0.21	ug/L	90

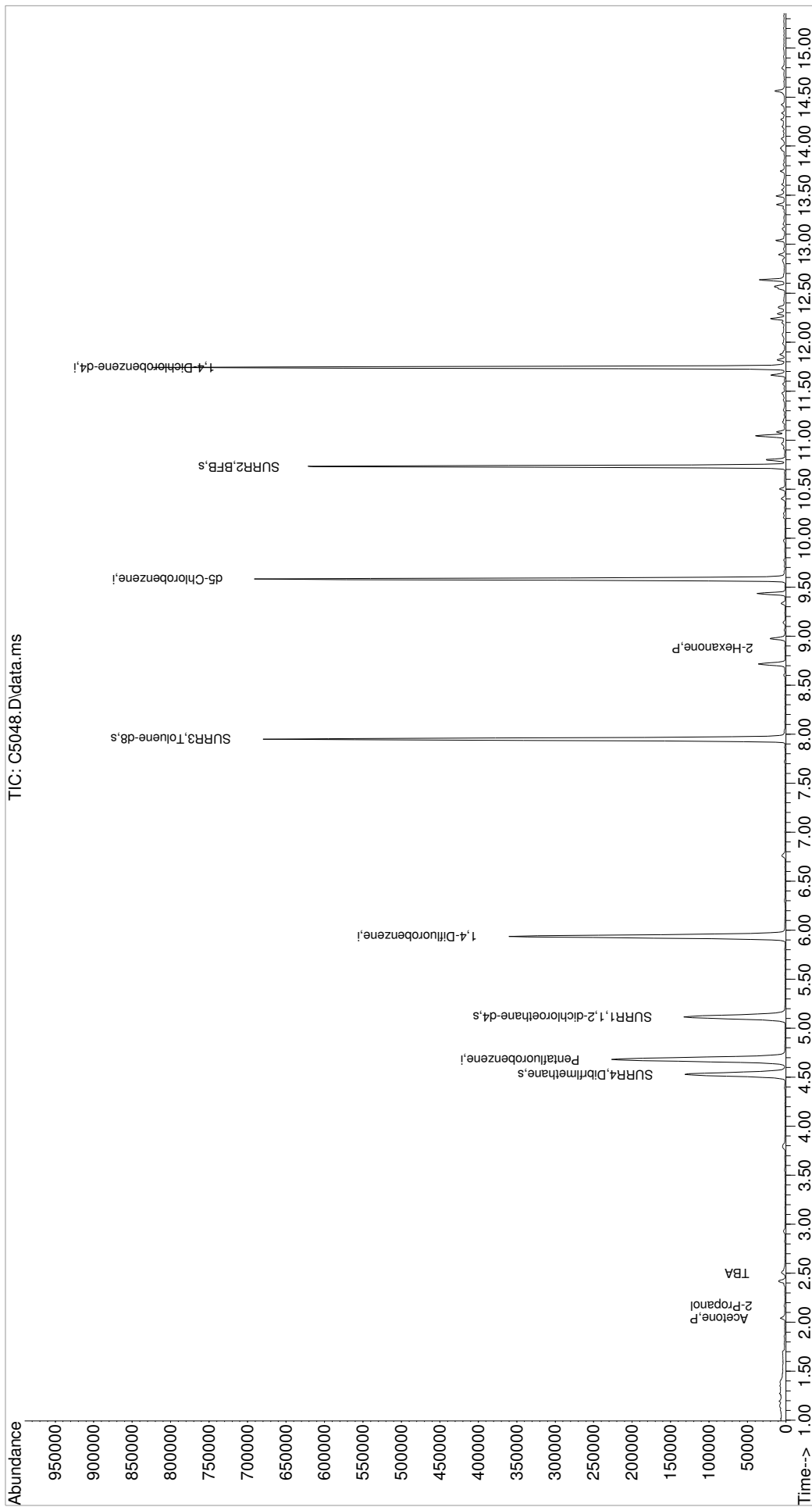
(#) = qualifier out of range (m) = manual integration (+) = signals summed

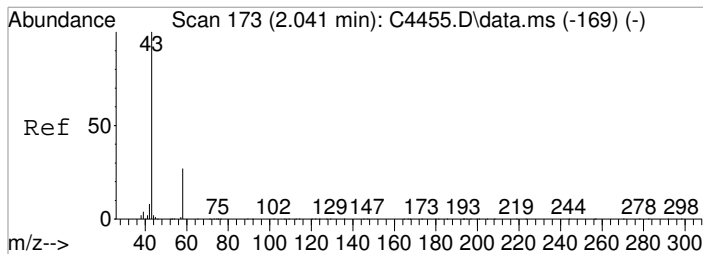
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\MSVOA14\Data\022218\  
Data File : C5048.D  
Acq On : 22 Feb 2018 2:48 pm  
Operator : K.Ruest  
Sample : VBLK  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

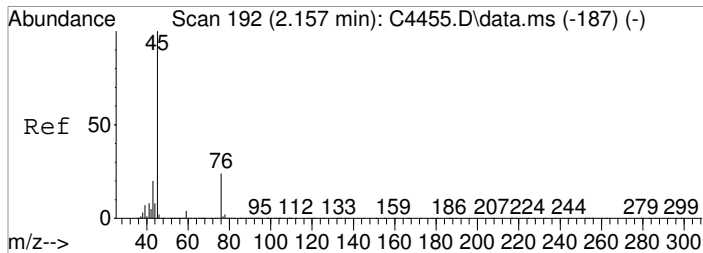
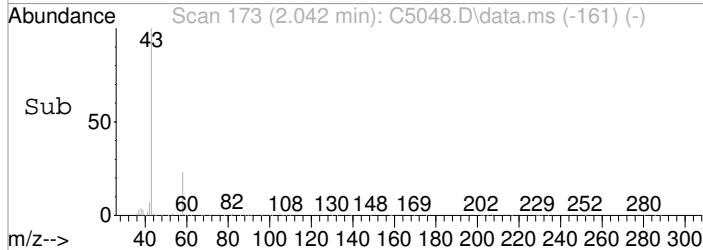
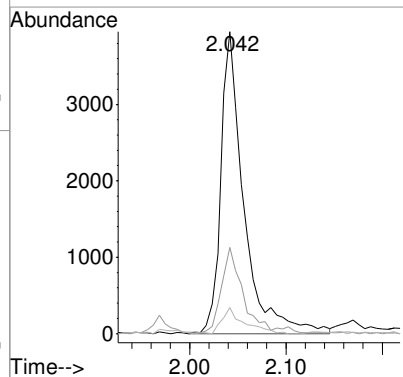
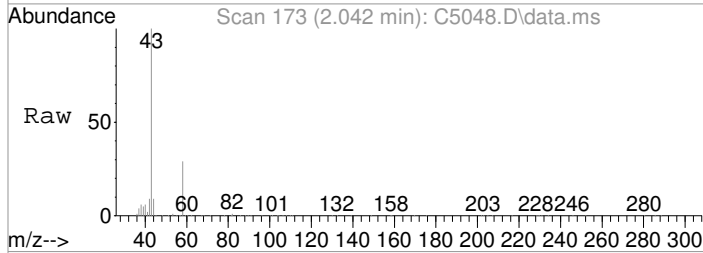
Quant Time: Feb 22 15:04:34 2018  
Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration





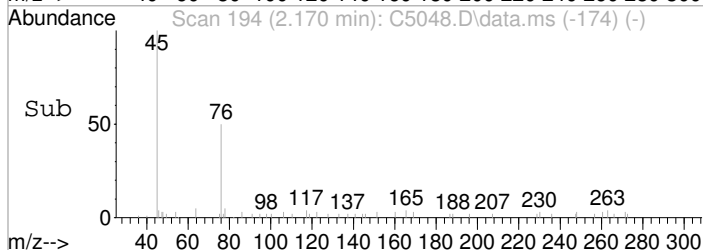
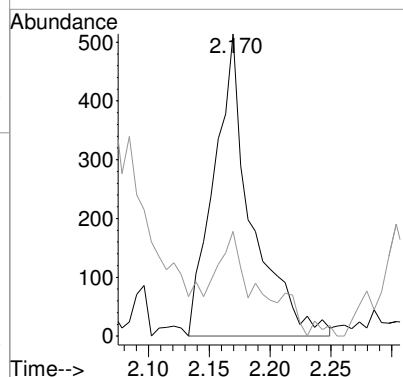
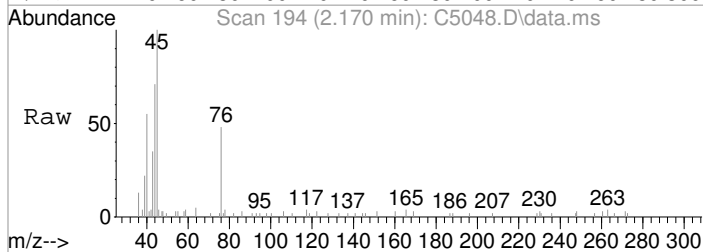
#15  
 Acetone  
 Concen: 6.35 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. 0.001 min  
 Lab File: C5048.D  
 Acq: 22 Feb 2018 2:48 pm

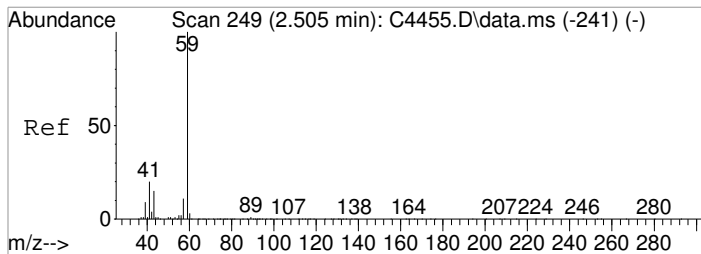
Tgt Ion	Resp	Lower	Upper
43	100		
58	28.5	7.1	47.1
42	8.7	0.0	28.6



#16  
 2-Propanol  
 Concen: 4.66 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. 0.012 min  
 Lab File: C5048.D  
 Acq: 22 Feb 2018 2:48 pm

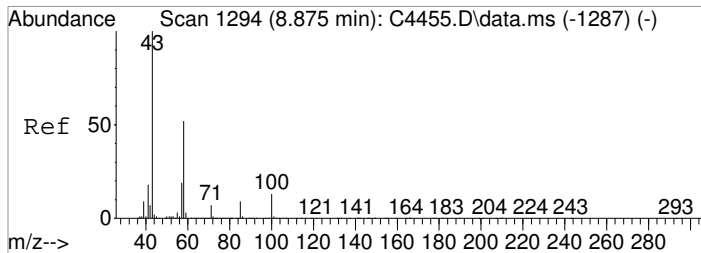
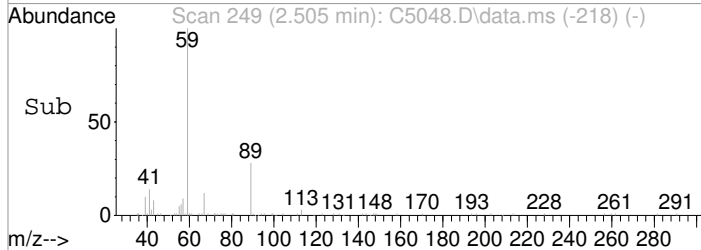
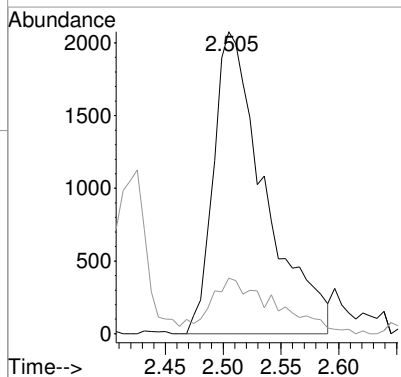
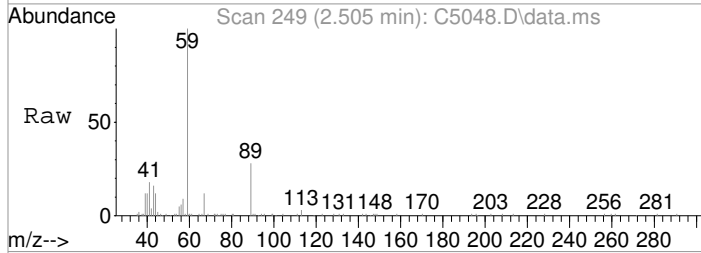
Tgt Ion	Resp	Lower	Upper
45	100		
43	33.2	0.1	40.1





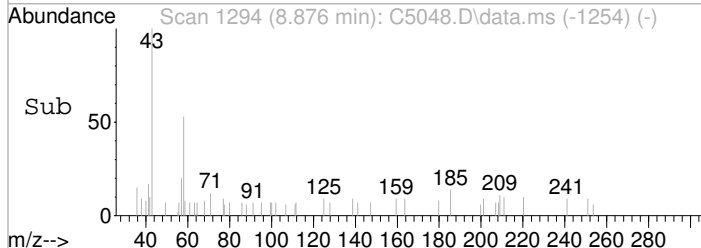
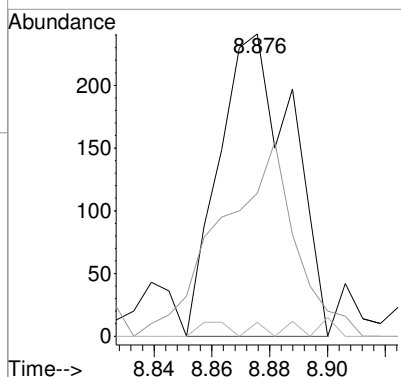
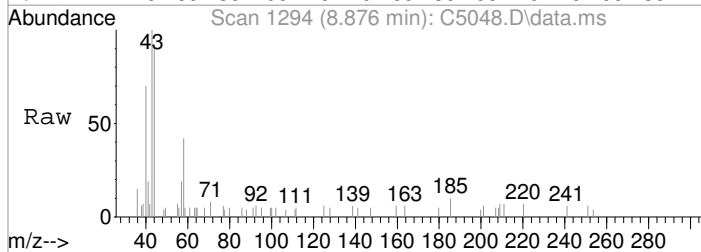
#23  
 TBA  
 Concen: 15.21 ug/L  
 RT: 2.505 min Scan# 249  
 Delta R.T. 0.000 min  
 Lab File: C5048.D  
 Acq: 22 Feb 2018 2:48 pm

Tgt Ion	Resp	Lower	Upper
59	6376		
41	18.2	0.3	40.3



#72  
 2-Hexanone  
 Concen: 0.21 ug/L  
 RT: 8.876 min Scan# 1294  
 Delta R.T. 0.000 min  
 Lab File: C5048.D  
 Acq: 22 Feb 2018 2:48 pm

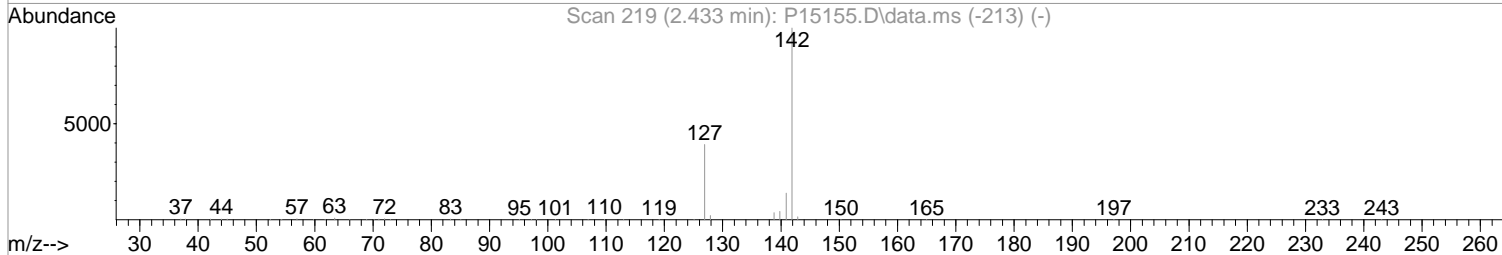
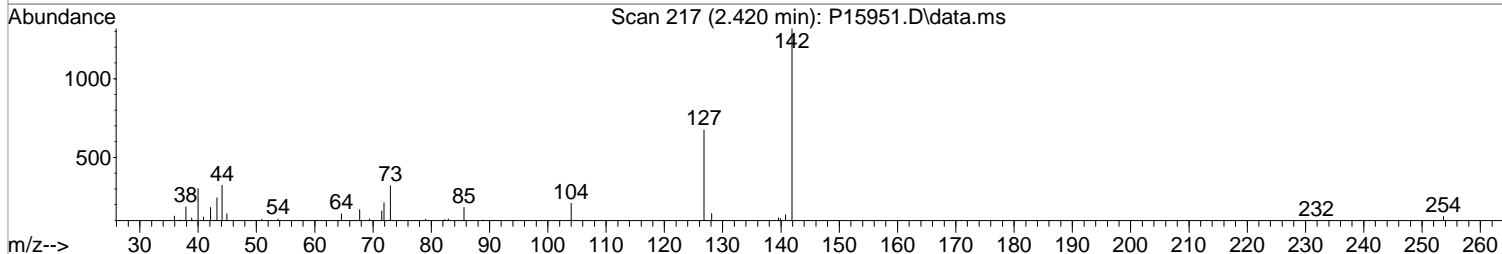
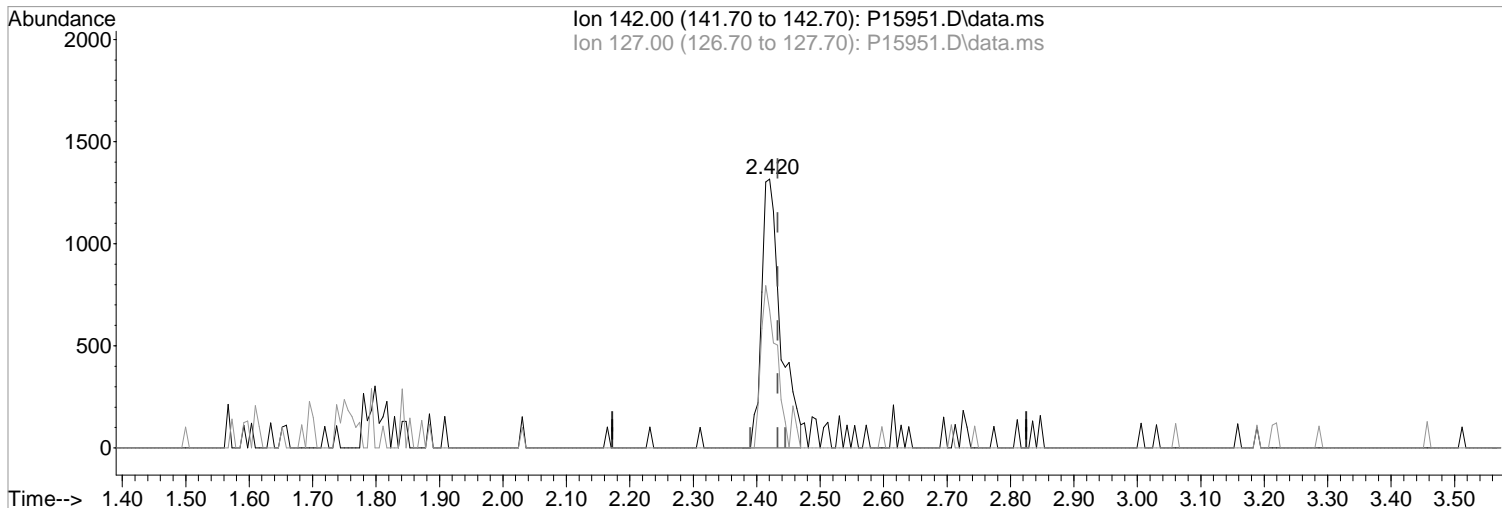
Tgt Ion	Resp	Lower	Upper
43	421		
58	47.3	32.2	72.2
100	4.6	0.0	32.9



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15951.D  
Acq On : 23 Feb 2018 12:12 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 12:27:54 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(17) Iodomethane  
2.420min (-0.012) 5.56 ppb m  
response 2754

Manual Integration:

After  
Split Peak

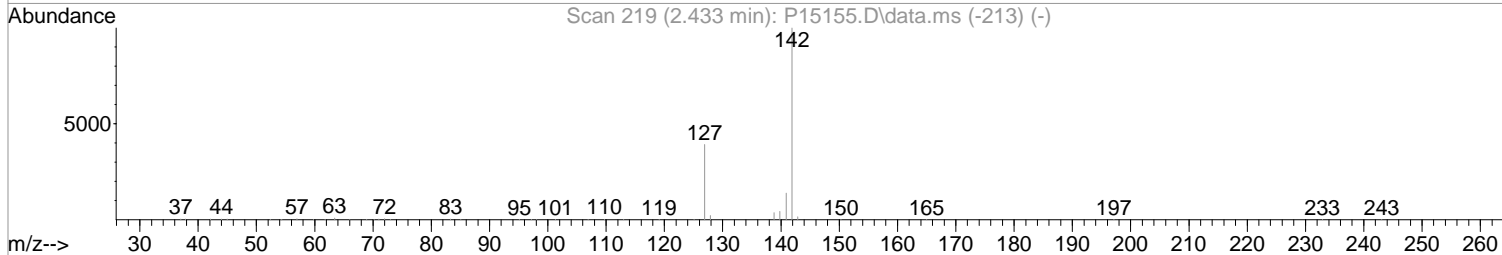
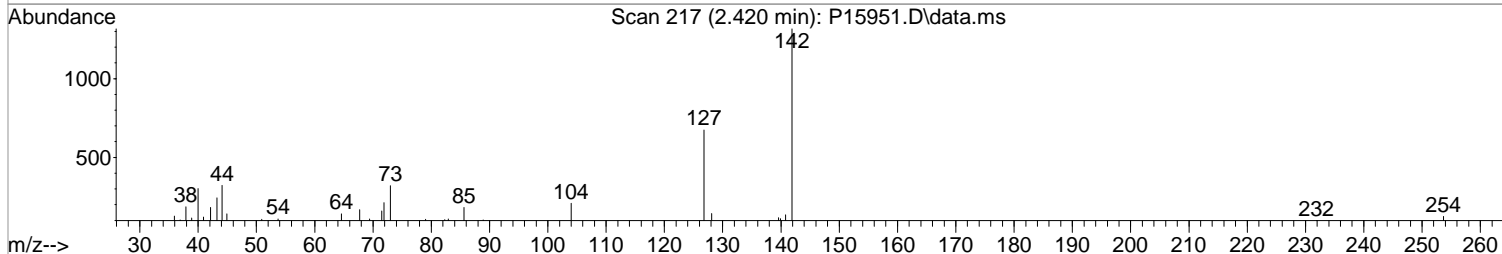
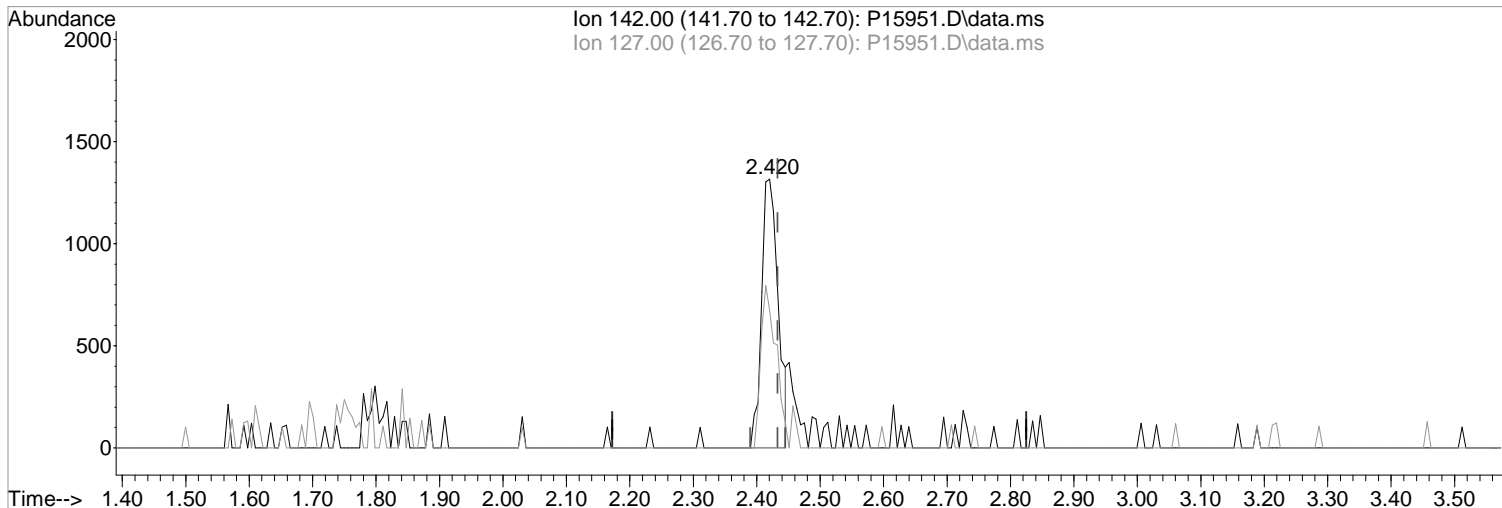
Ion	Exp%	Act%
142.00	100	100
127.00	39.10	51.25
0.00	0.00	0.00
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15951.D  
Acq On : 23 Feb 2018 12:12 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 12:27:54 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15951.D\data.ms

(17) Iodomethane  
2.420min (-0.012) 5.47 ppb  
response 2389

Manual Integration:  
Before

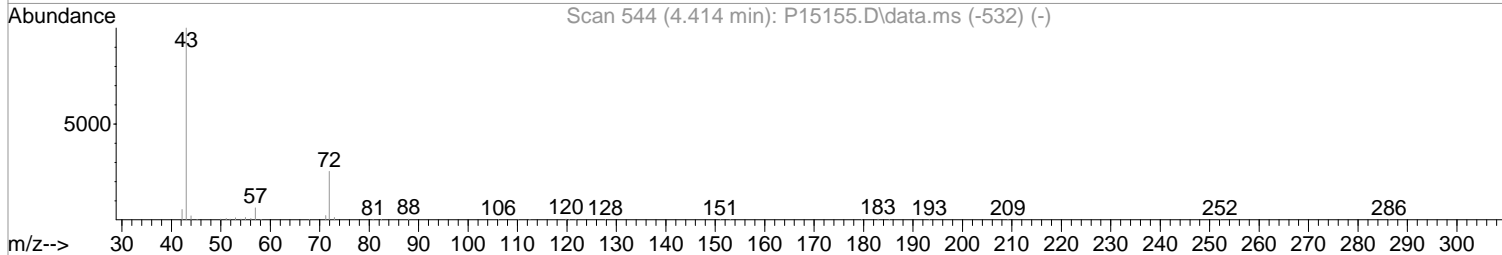
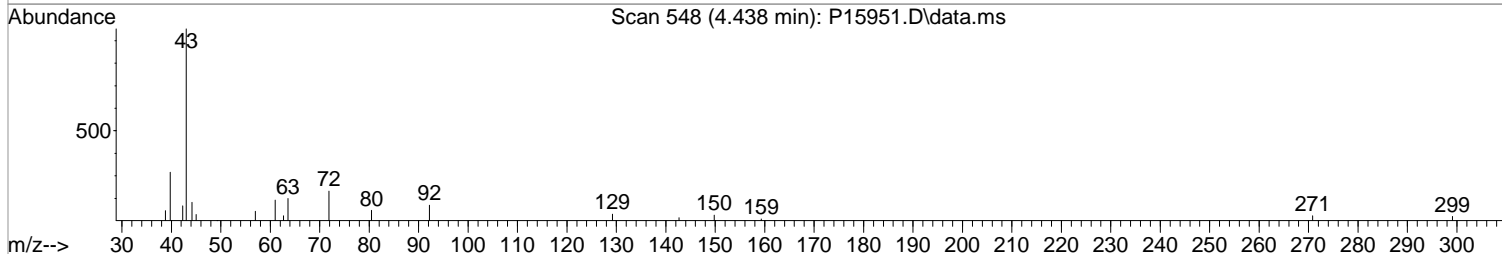
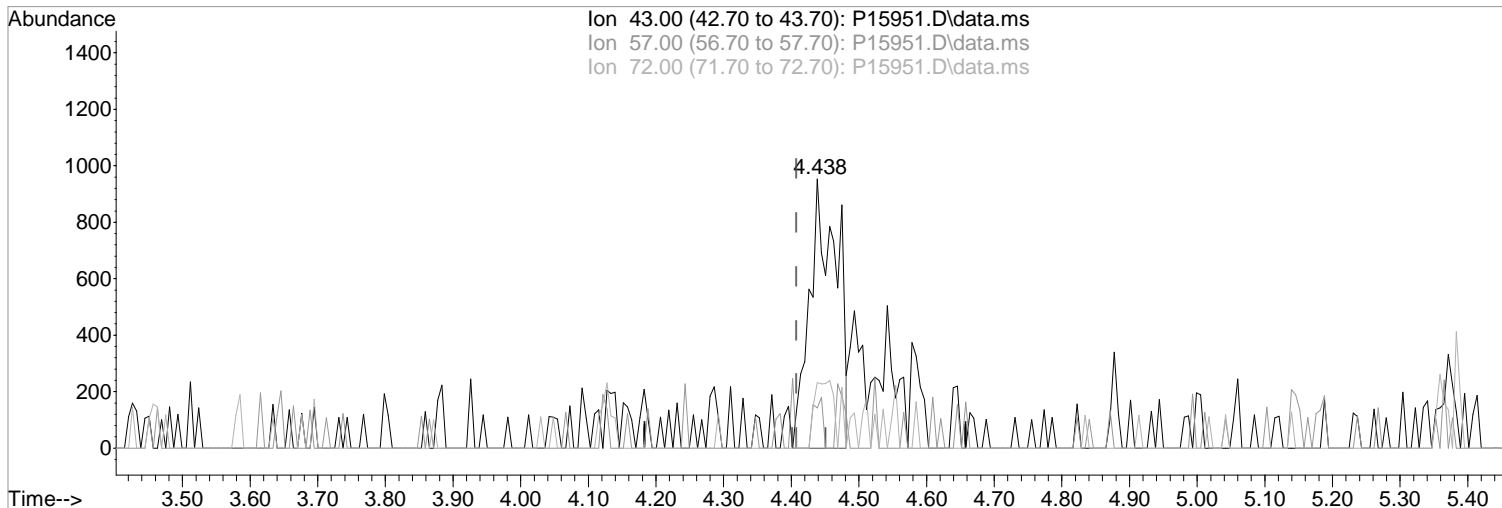
Ion	Exp%	Act%
142.00	100	100
127.00	39.10	51.25
0.00	0.00	0.00
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15951.D  
Acq On : 23 Feb 2018 12:12 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 12:27:54 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(35) 2-Butanone (P)

4.438min (+0.031) 1.14 ppb m

response 2656

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	14.90
72.00	26.10	24.34
0.00	0.00	0.00

Manual Integration:

After

Split Peak

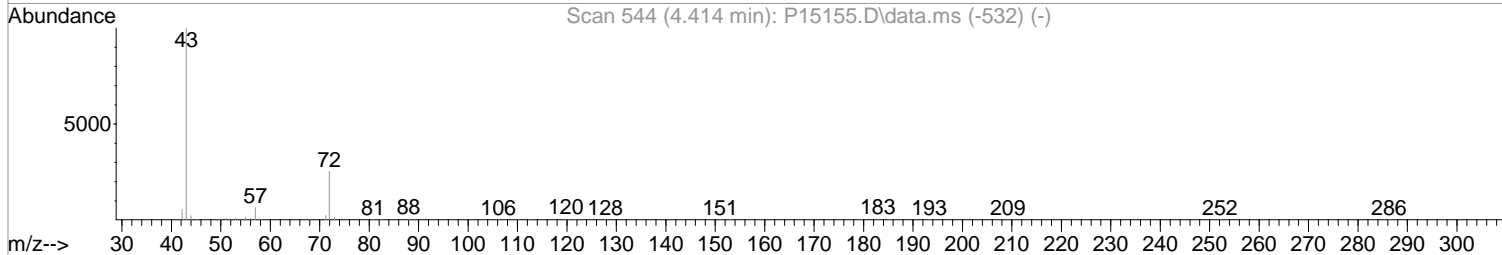
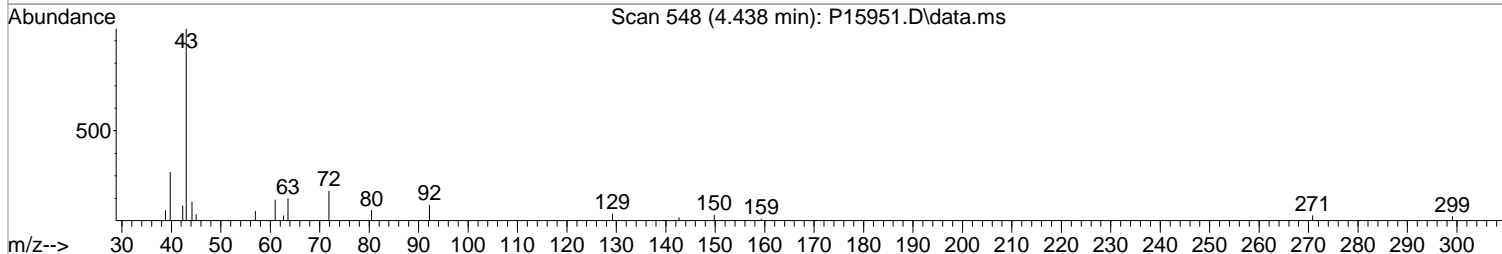
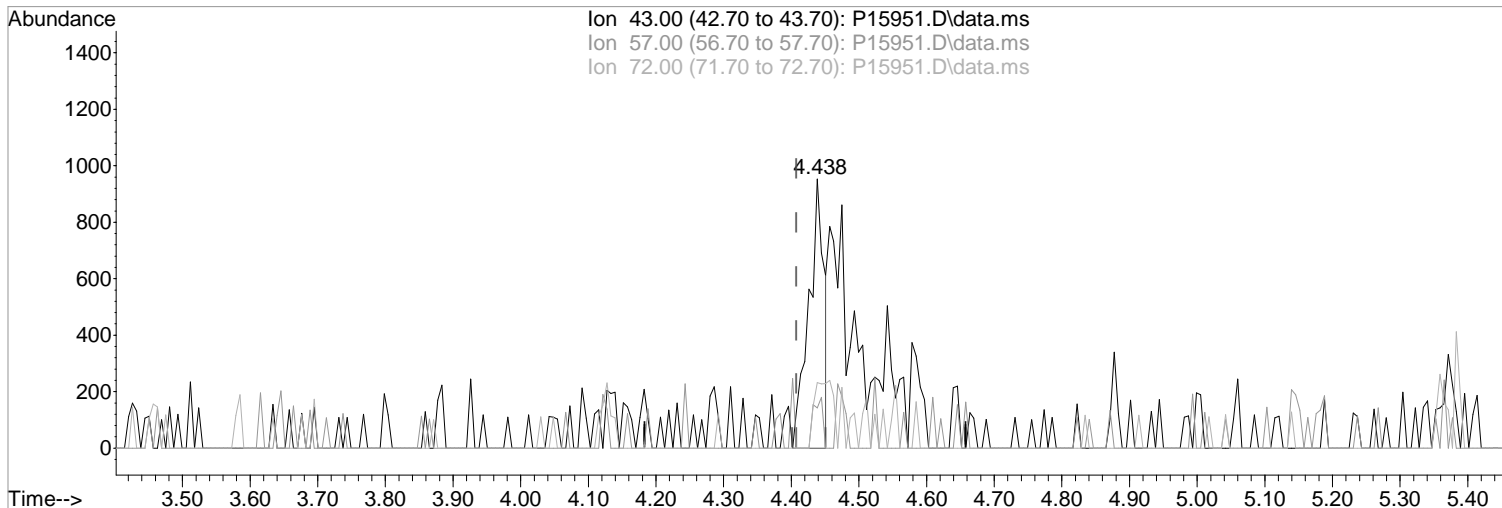
02/26/18



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15951.D  
Acq On : 23 Feb 2018 12:12 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 12:27:54 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(35) 2-Butanone (P)  
4.438min (+0.031) 0.64 ppb  
response 1484

Manual Integration:  
Before

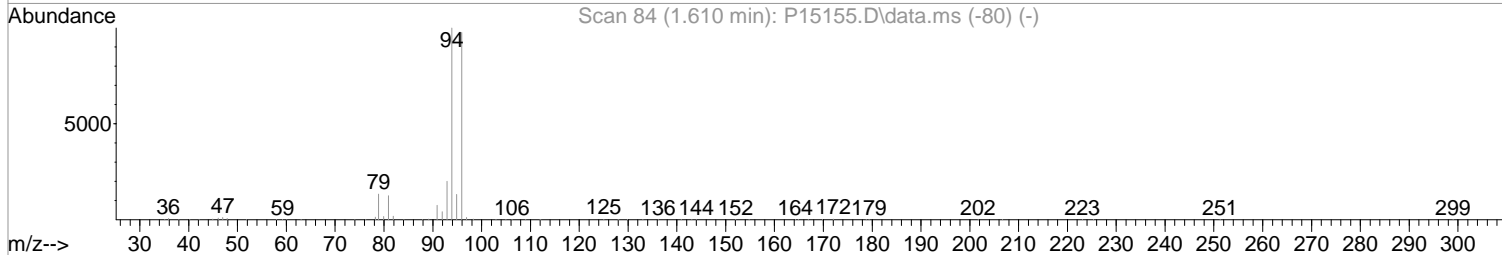
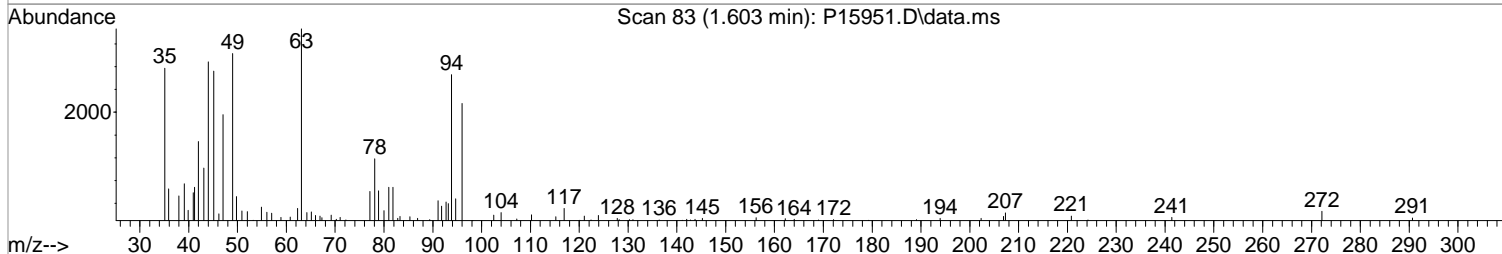
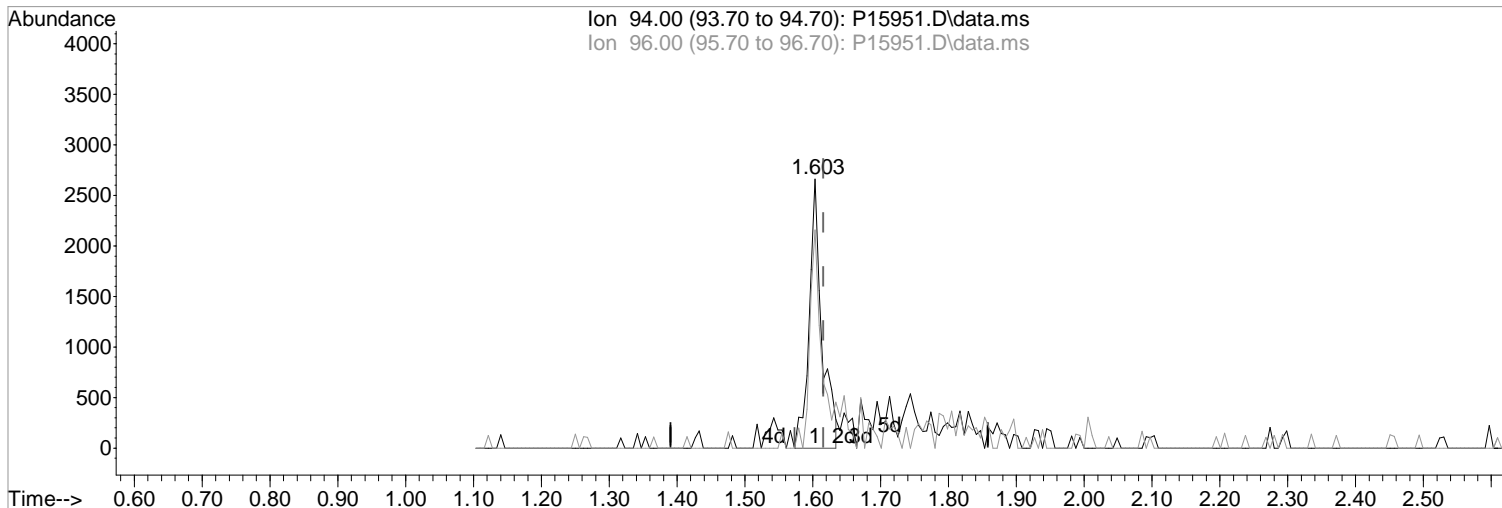
Ion	Exp%	Act%
43.00	100	100
57.00	6.70	14.90
72.00	26.10	24.34
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15951.D  
Acq On : 23 Feb 2018 12:12 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 12:27:54 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(5) Bromomethane (P)

1.603min (-0.012) 0.82 ppb m

response 3523

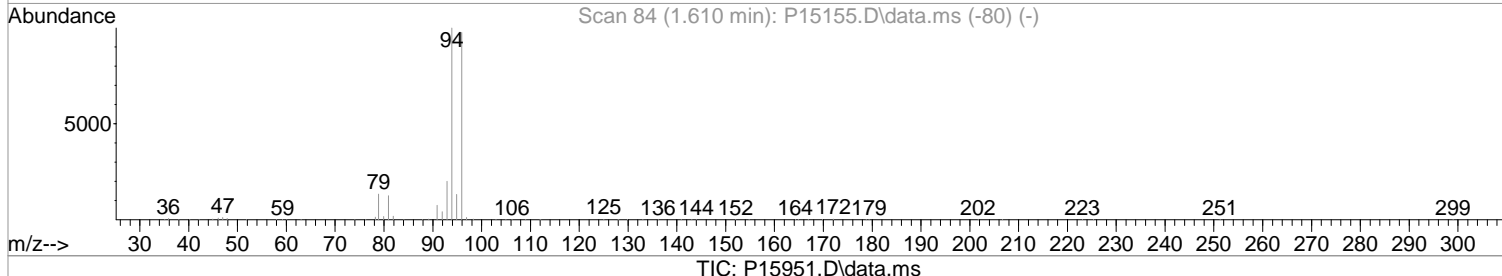
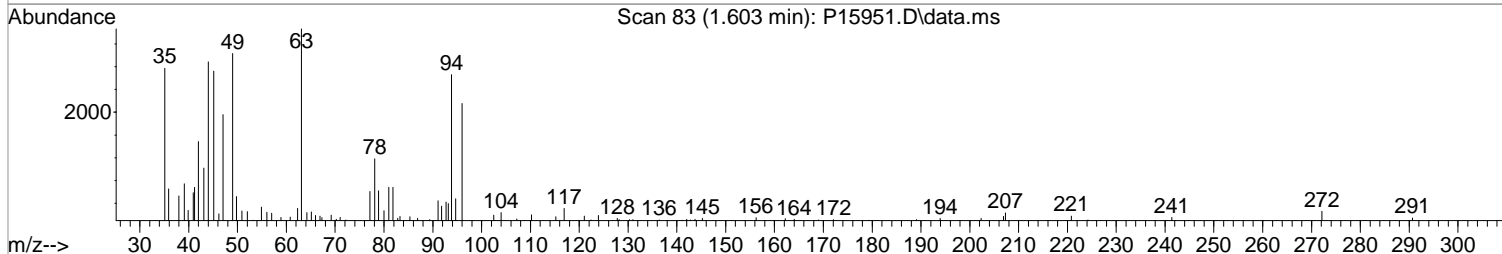
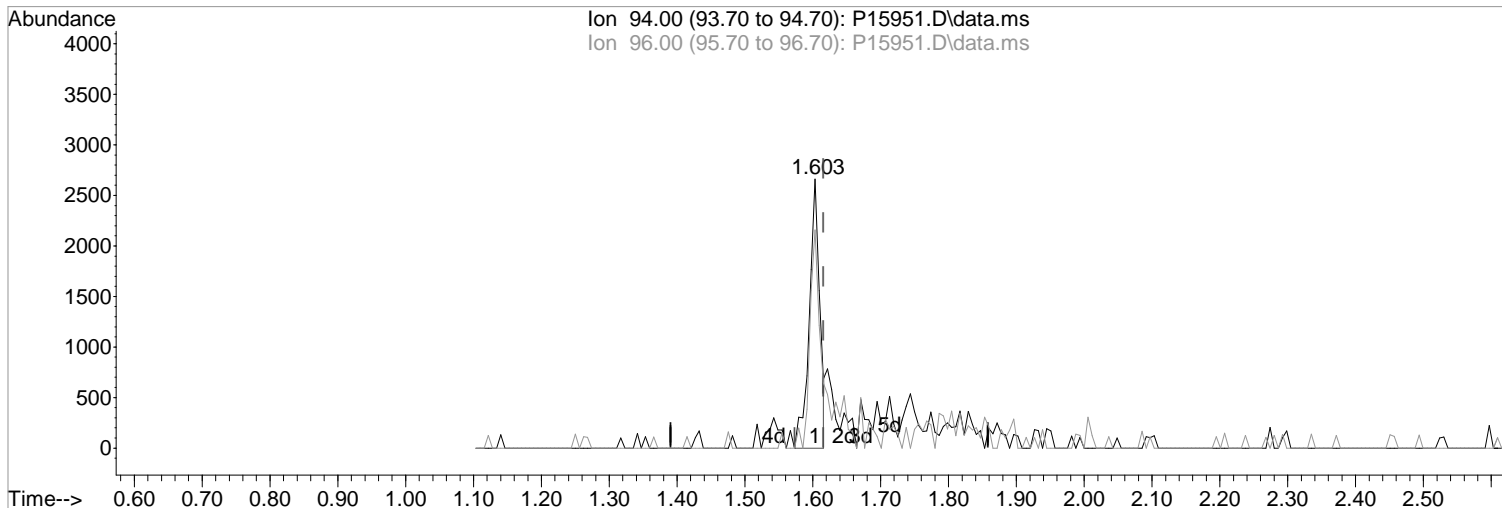
Ion	Exp%	Act%
94.00	100	100
96.00	97.70	81.03
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:  
After  
Split Peak  
02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15951.D  
Acq On : 23 Feb 2018 12:12 pm  
Operator : K.Ruest  
Sample : MEDBLK|50  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 12:27:54 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.603min (-0.012) 0.67 ppb  
response 2922

Manual Integration:

Before

Ion	Exp%	Act%
94.00	100	100
96.00	97.70	68.63#
0.00	0.00	0.00
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
 Data File : P15951.D  
 Acq On : 23 Feb 2018 12:12 pm  
 Operator : K.Ruest  
 Sample : MEDBLK|50  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 26 10:44:45 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

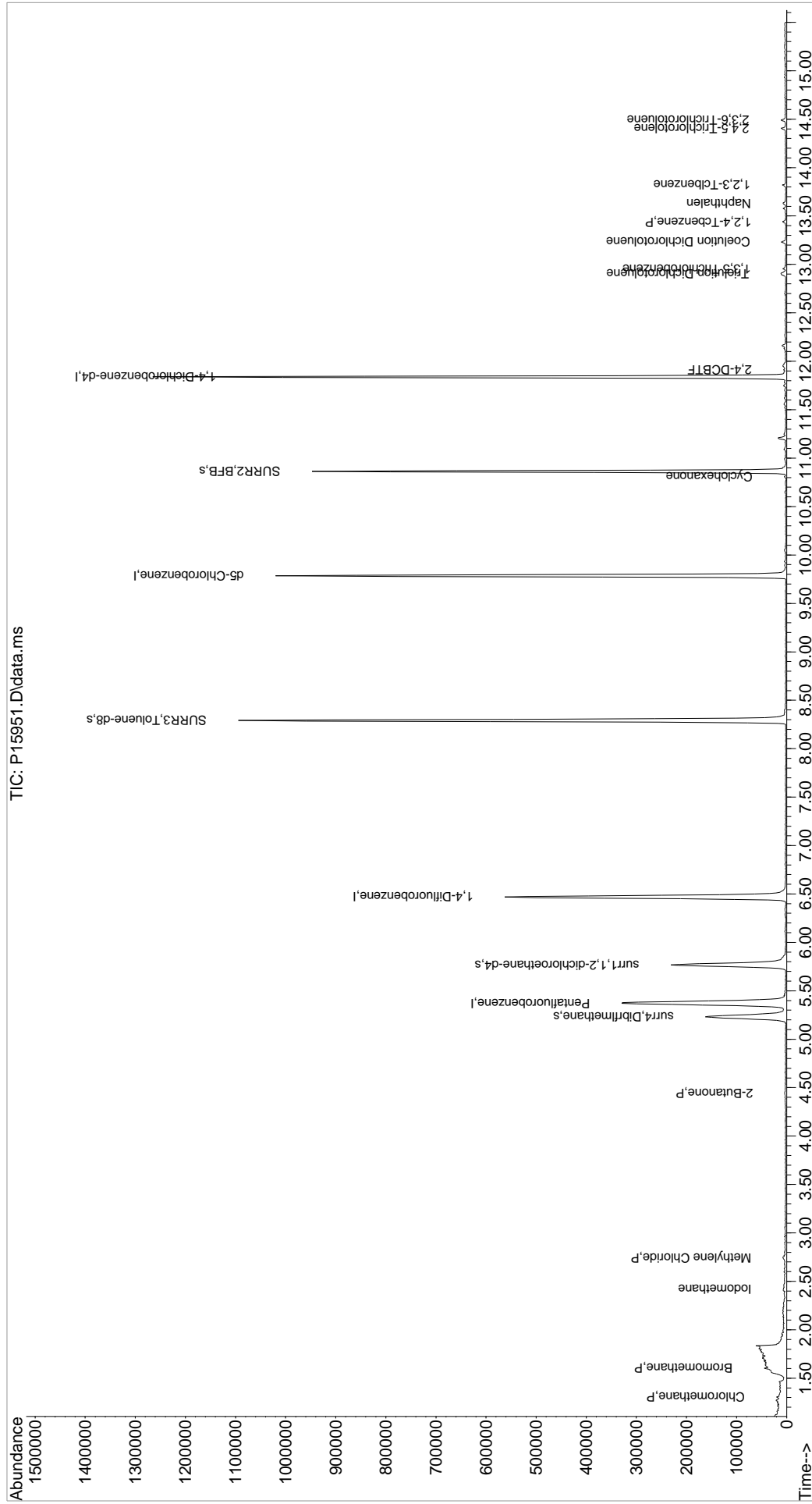
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.371	168	304764	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	505695	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	453325	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	237773	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.231	113	138021	45.97	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	91.94%		
48) surr1,1,2-dichloroetha...	5.767	65	208914	50.77	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	101.54%		
65) SURR3,Toluene-d8	8.291	98	679200	50.66	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.32%		
70) SURR2,BFB	10.864	95	253754	48.92	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.84%		
Target Compounds							
3) Chloromethane	1.305	50	1747	0.38	ppb		96
5) Bromomethane	1.603	94	3523m	0.82	ppb		
17) Iodomethane	2.420	142	2754m	5.56	ppb		
22) Methylene Chloride	2.743	84	2293	0.69	ppb		97
35) 2-Butanone	4.438	43	2656m	1.14	ppb		
90) Cyclohexanone	10.809	55	869	0.73	ppb		89
107) 2,4-DCBTF	11.912	214	706	0.20	ppb	#	65
112) Trielution Dichlorotol...	12.906	125	3962	0.55	ppb	#	93
113) 1,3,5 Trichlorobenzene	12.955	180	1208	0.21	ppb	#	79
114) Coelution Dichlorotoluene	13.235	125	2635	0.35	ppb		95
115) 1,2,4-Tcbenzene	13.437	180	1369	0.26	ppb		89
117) Naphthalen	13.632	128	3833	0.26	ppb		94
118) 1,2,3-Tclbenzene	13.821	180	1313	0.26	ppb	#	78
119) 2,4,5-Trichlorotolene	14.406	159	1579	1.01	ppb	#	78
120) 2,3,6-Trichlorotoluene	14.491	159	1501	1.10	ppb	#	81

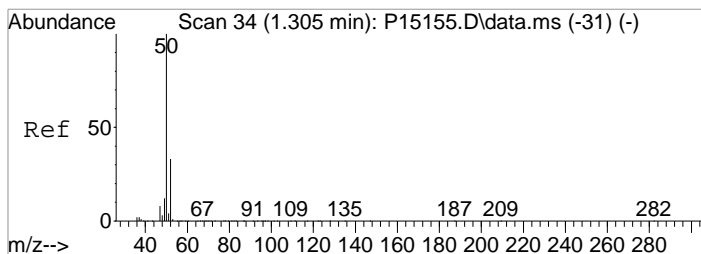
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\022318\  
 Data File : P15951.D  
 Acq On : 23 Feb 2018 12:12 pm  
 Operator : K.Ruest  
 Sample : MEDBLK|50  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

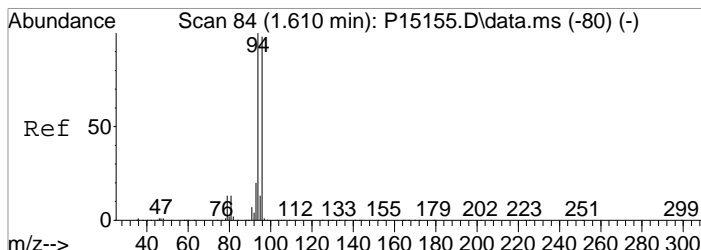
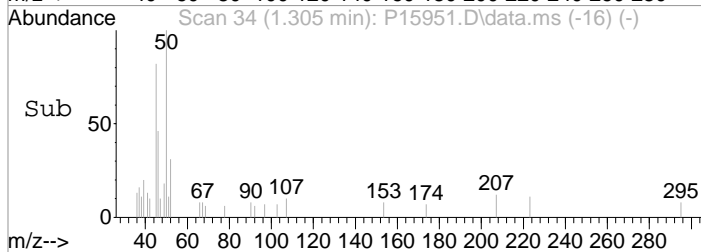
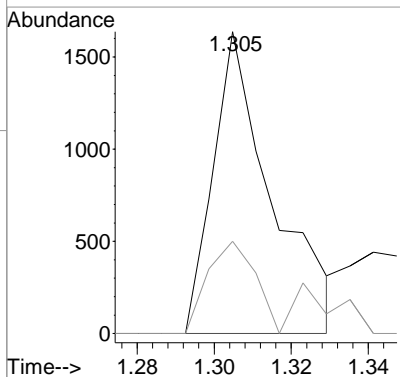
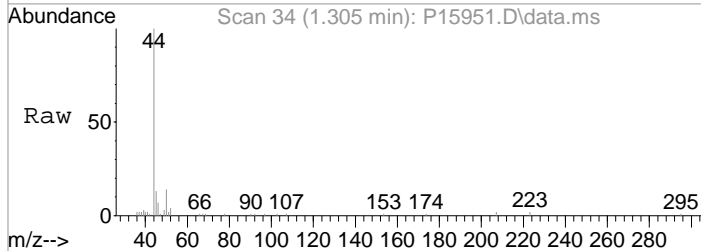
Quant Time: Feb 26 10:44:45 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration





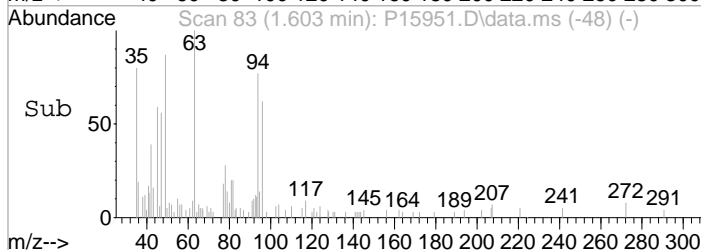
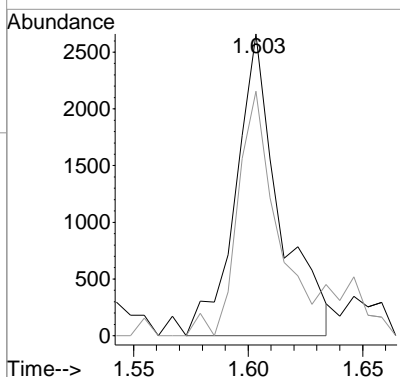
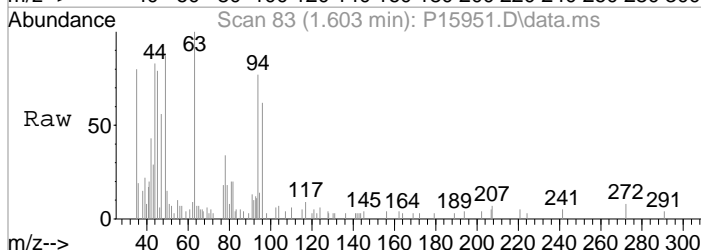
#3  
 Chloromethane  
 Concen: 0.38 ppb  
 RT: 1.305 min Scan# 34  
 Delta R.T. -0.006 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

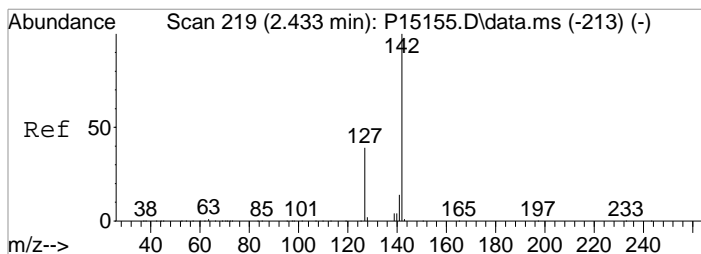
Tgt Ion	Resp	Lower	Upper
50	1747		
52	30.5	12.8	52.8



#5  
 Bromomethane  
 Concen: 0.82 ppb m  
 RT: 1.603 min Scan# 83  
 Delta R.T. -0.012 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

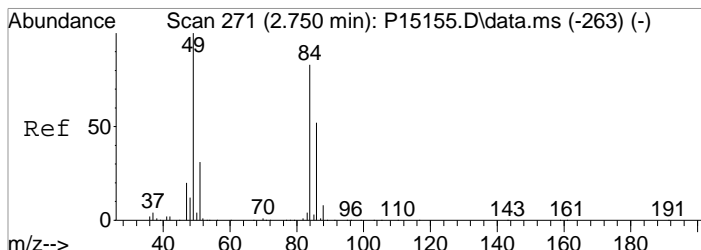
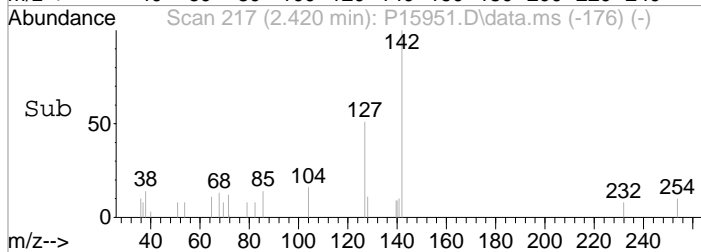
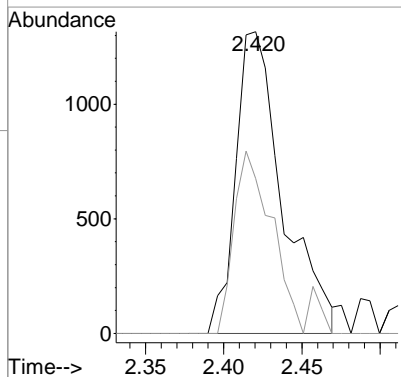
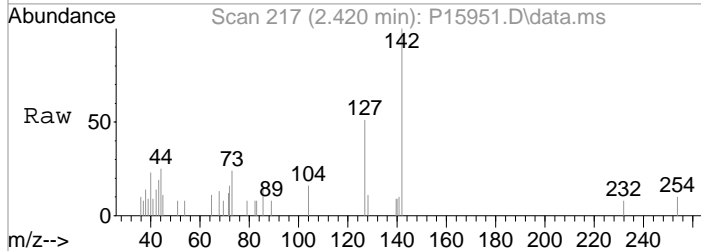
Tgt Ion	Resp	Lower	Upper
94	3523		
96	81.0	77.7	117.7





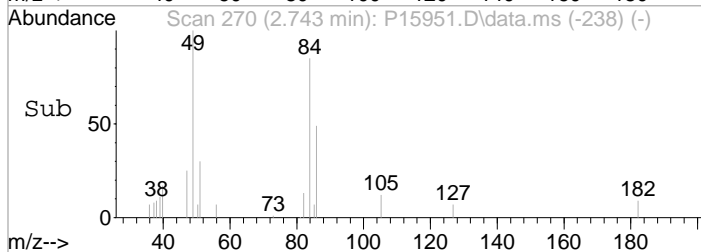
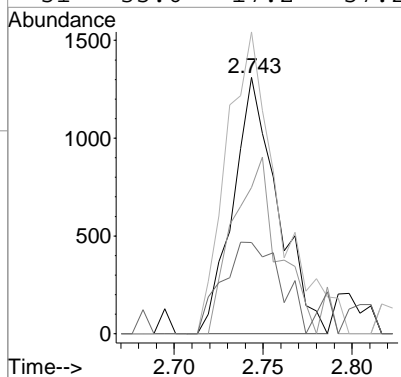
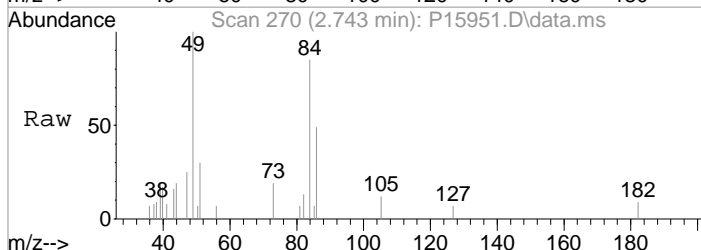
#17  
 Iodomethane  
 Concen: 5.56 ppb m  
 RT: 2.420 min Scan# 217  
 Delta R.T. -0.012 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

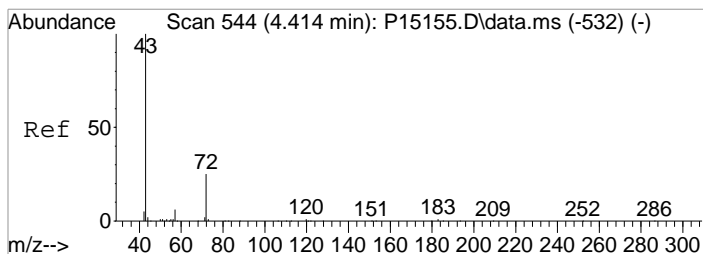
Tgt Ion	Resp	Lower	Upper
142	2754		
127	51.3	19.1	59.1



#22  
 Methylene Chloride  
 Concen: 0.69 ppb  
 RT: 2.743 min Scan# 270  
 Delta R.T. -0.006 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

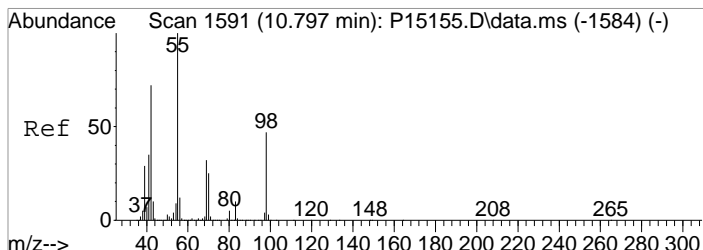
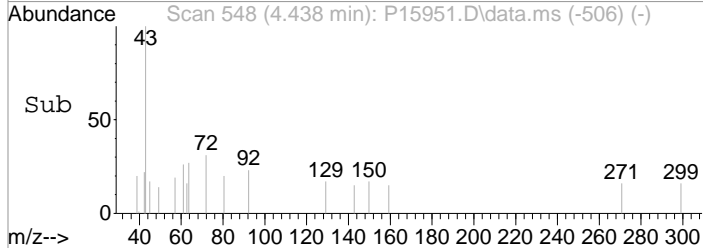
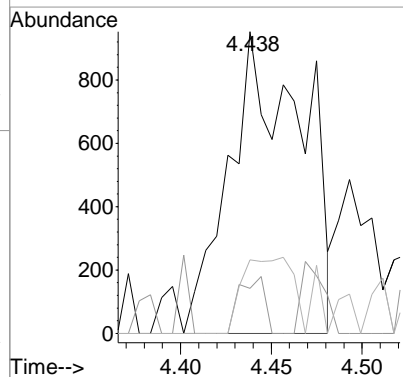
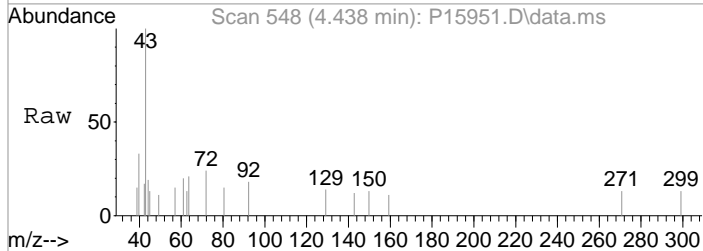
Tgt Ion	Resp	Lower	Upper
84	2293		
86	57.1	42.2	82.2
49	117.8	99.9	139.9
51	35.6	17.2	57.2





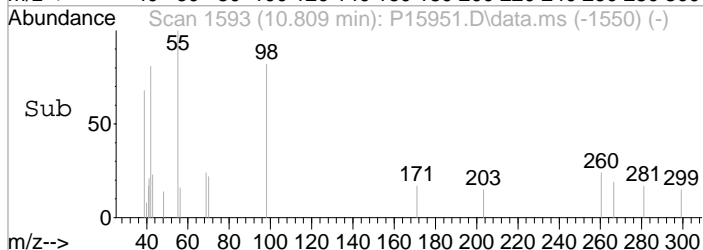
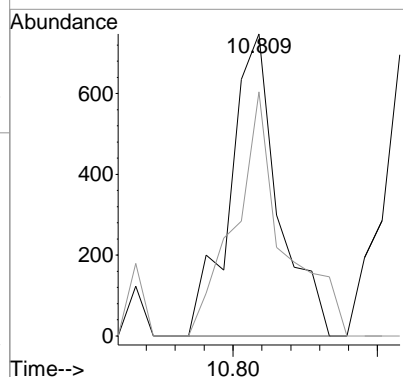
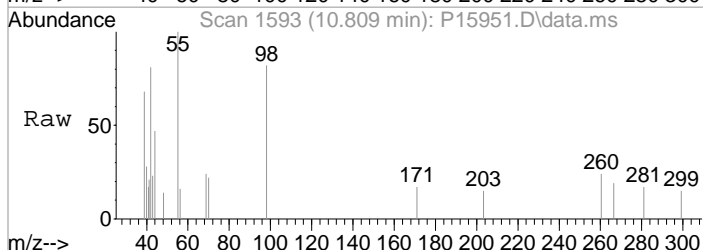
#35  
 2-Butanone  
 Concen: 1.14 ppb m  
 RT: 4.438 min Scan# 548  
 Delta R.T. 0.031 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

Tgt Ion	Resp	Lower	Upper
43	2656		
57	14.9	0.0	26.7
72	24.3	6.1	46.1

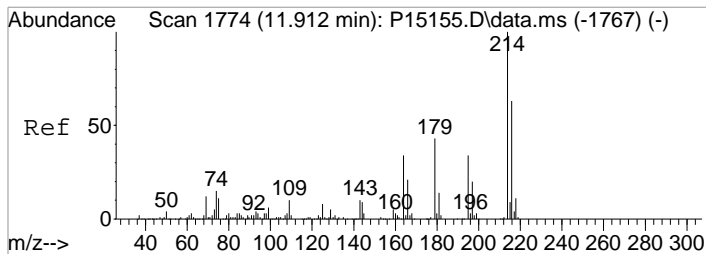


#90  
 Cyclohexanone  
 Concen: 0.73 ppb  
 RT: 10.809 min Scan# 1593  
 Delta R.T. 0.012 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

Tgt Ion	Resp	Lower	Upper
55	869		
42	80.7	51.8	91.8

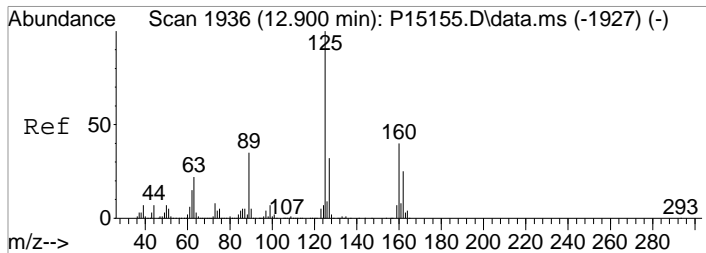
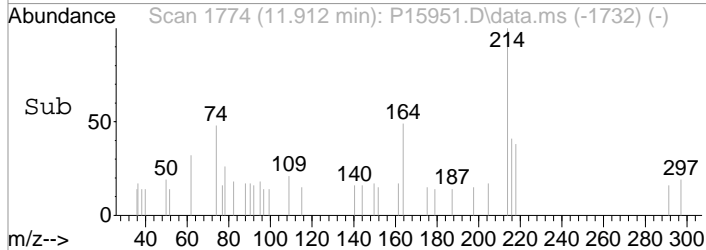
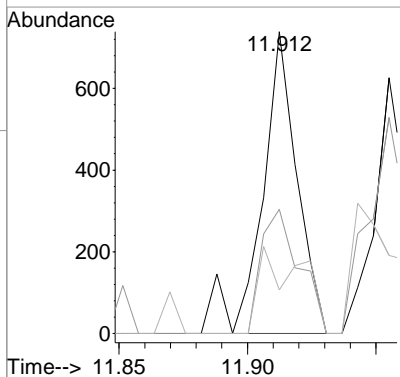
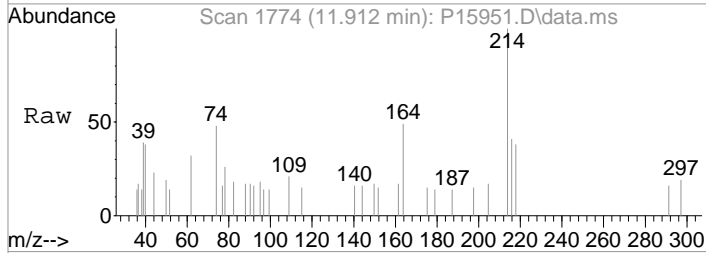






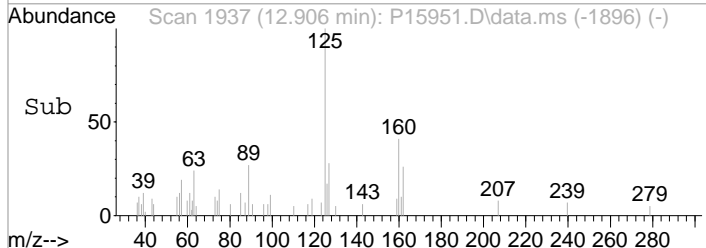
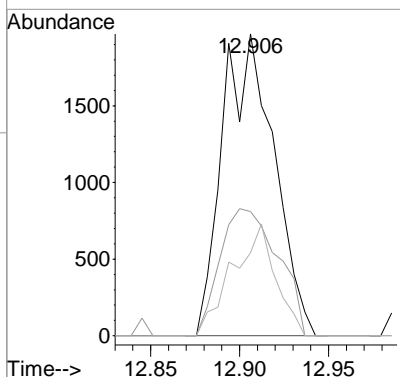
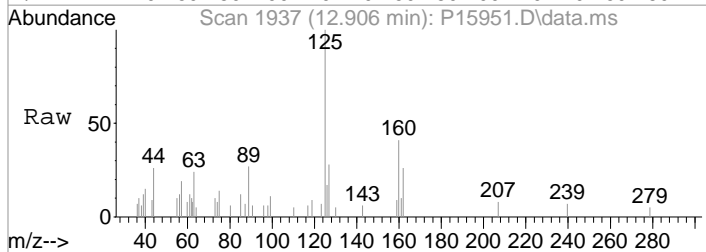
#107  
 2,4-DCBTF  
 Concen: 0.20 ppb  
 RT: 11.912 min Scan# 1774  
 Delta R.T. 0.006 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

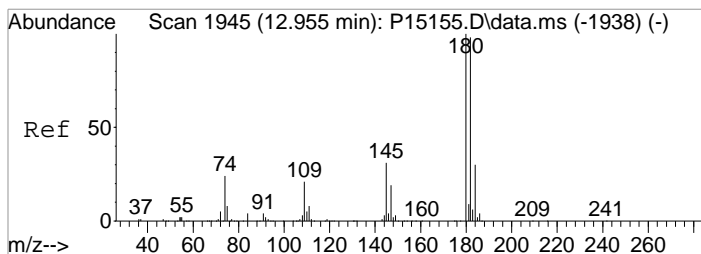
Tgt Ion	Resp	Lower	Upper
214	100		
216	41.1	50.3	75.5#
179	14.5	34.3	51.5#



#112  
 Trielution Dichlorotoluene  
 Concen: 0.55 ppb  
 RT: 12.906 min Scan# 1937  
 Delta R.T. 0.000 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

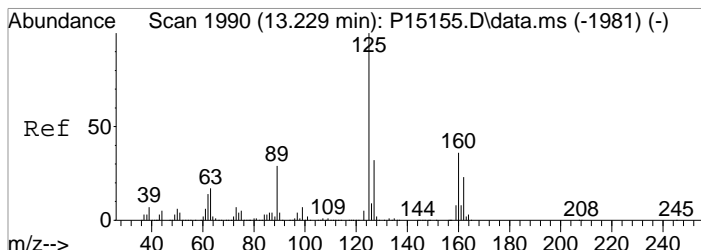
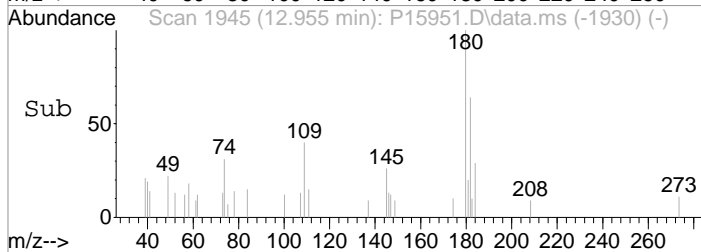
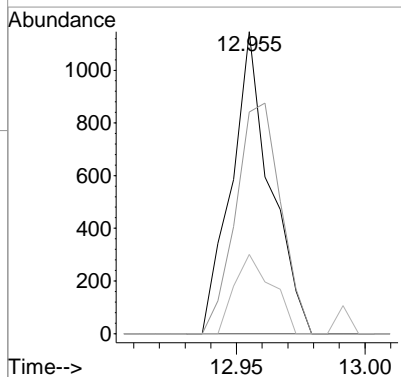
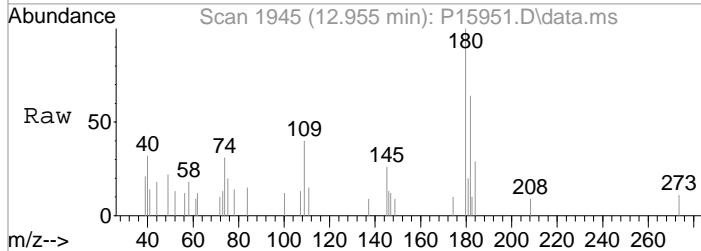
Tgt Ion	Resp	Lower	Upper
125	100		
160	41.1	32.2	48.2
89	27.5	28.3	42.5#





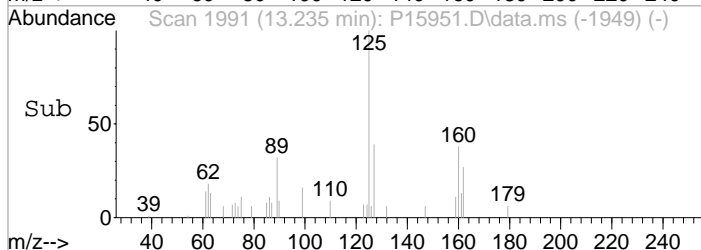
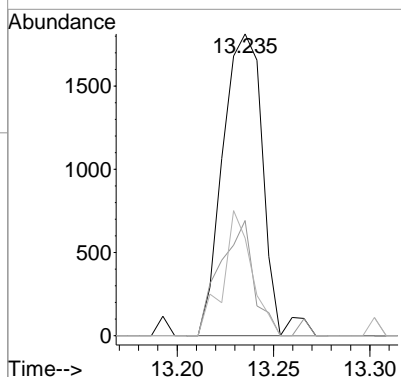
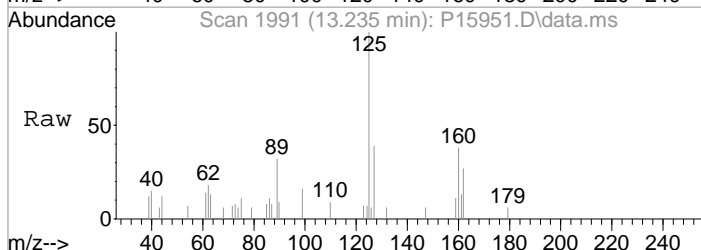
#113  
 1,3,5 Trichlorobenzene  
 Concen: 0.21 ppb  
 RT: 12.955 min Scan# 1945  
 Delta R.T. 0.000 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

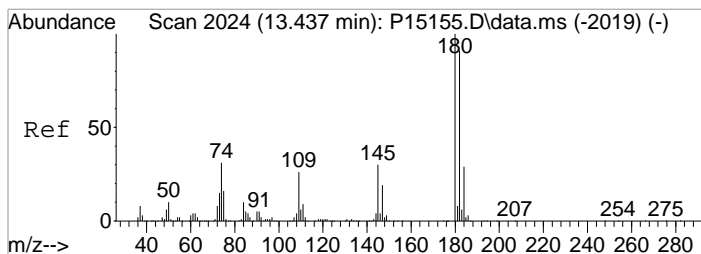
Tgt Ion	Resp	Lower	Upper
180	1208		
182	73.4	78.4	117.6#
145	26.2	25.0	37.4



#114  
 Coelution Dichlorotoluene  
 Concen: 0.35 ppb  
 RT: 13.235 min Scan# 1991  
 Delta R.T. 0.006 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

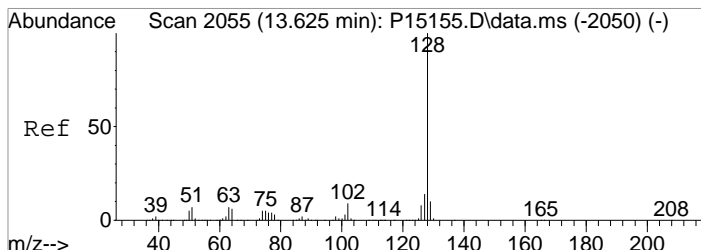
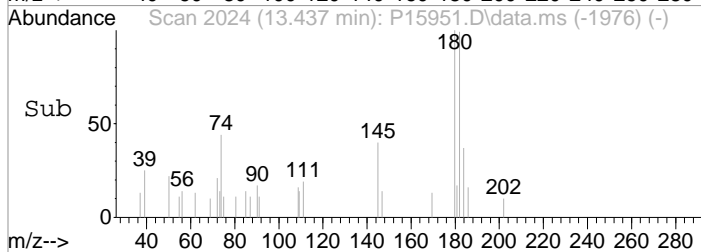
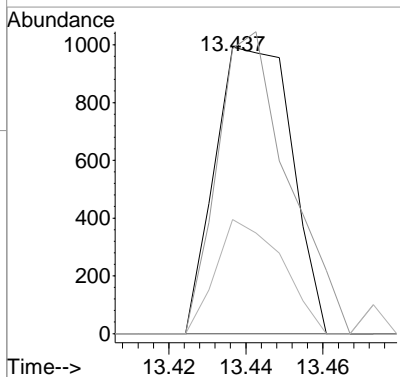
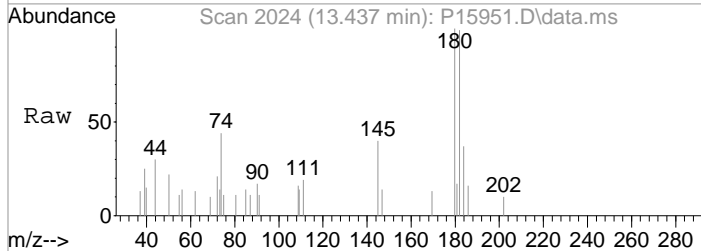
Tgt Ion	Resp	Lower	Upper
125	2635		
160	38.2	28.4	42.6
89	32.3	23.2	34.8





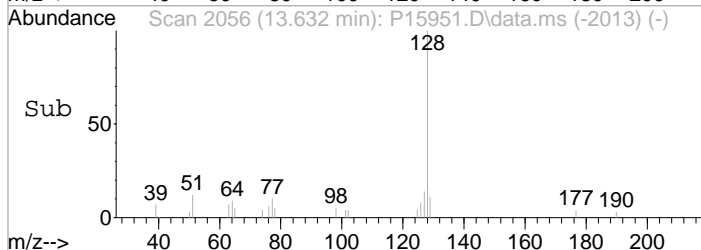
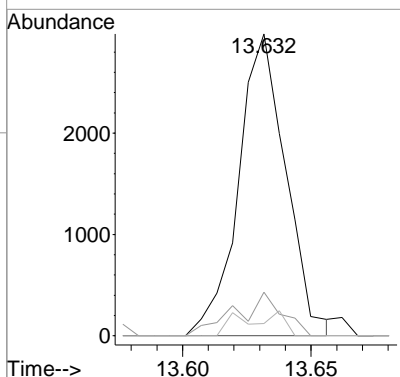
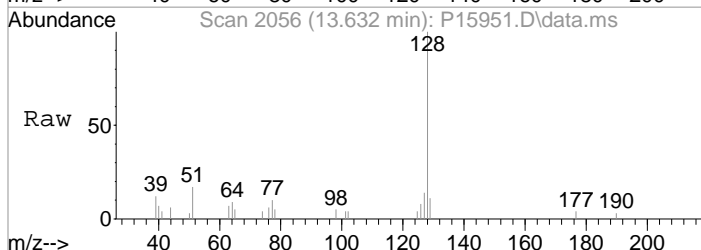
#115  
 1,2,4-Tcbenzene  
 Concen: 0.26 ppb  
 RT: 13.437 min Scan# 2024  
 Delta R.T. 0.000 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

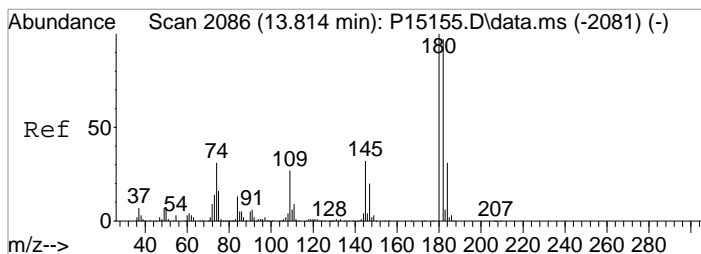
Tgt Ion	Resp	Lower	Upper
180	1369		
182	99.5	71.1	111.1
145	39.8	10.3	50.3



#117  
 Naphthalen  
 Concen: 0.26 ppb  
 RT: 13.632 min Scan# 2056  
 Delta R.T. 0.006 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

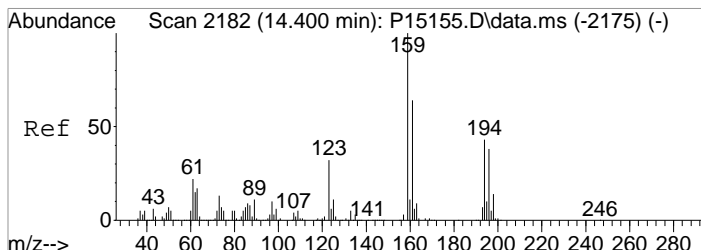
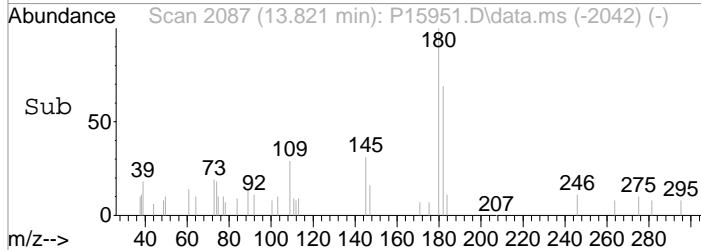
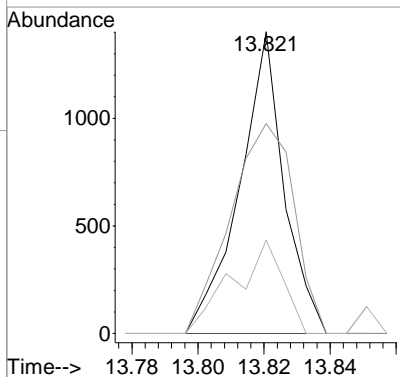
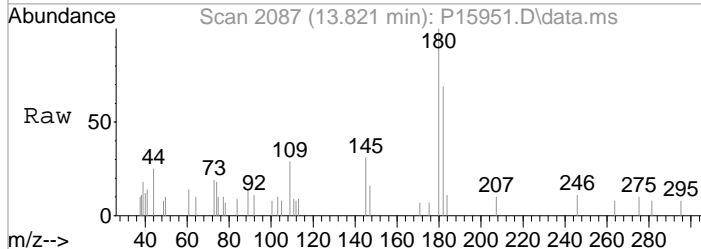
Tgt Ion	Resp	Lower	Upper
128	3833		
127	14.5	0.0	34.0
102	4.1	0.0	29.1





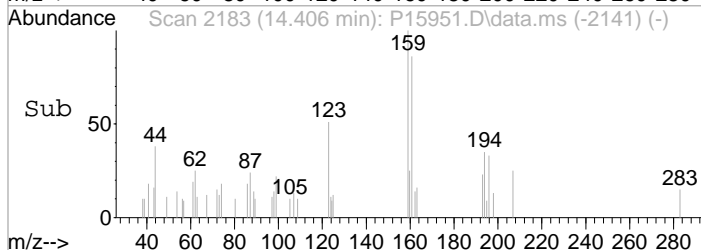
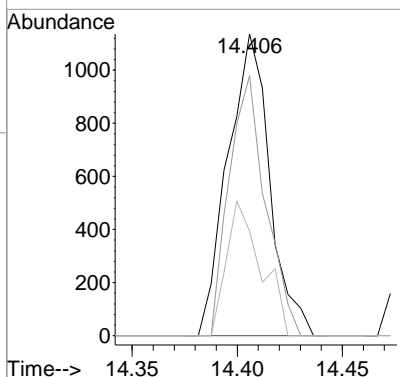
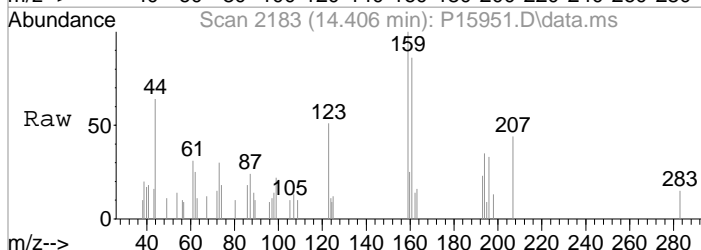
#118  
 1,2,3-Trclbenzene  
 Concen: 0.26 ppb  
 RT: 13.821 min Scan# 2087  
 Delta R.T. 0.006 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

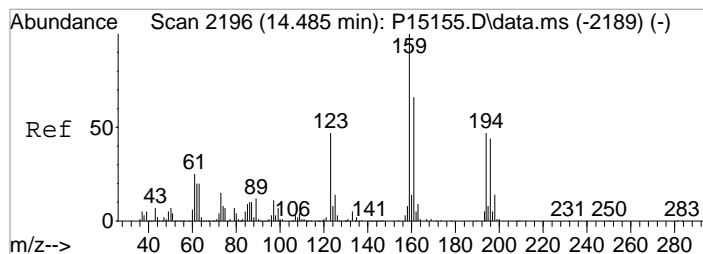
Tgt Ion	Resp	Lower	Upper
180	1313		
182	69.5	77.0	117.0#
145	31.0	12.3	52.3



#119  
 2,4,5-Trichlorotolene  
 Concen: 1.01 ppb  
 RT: 14.406 min Scan# 2183  
 Delta R.T. 0.007 min  
 Lab File: P15951.D  
 Acq: 23 Feb 2018 12:12 pm

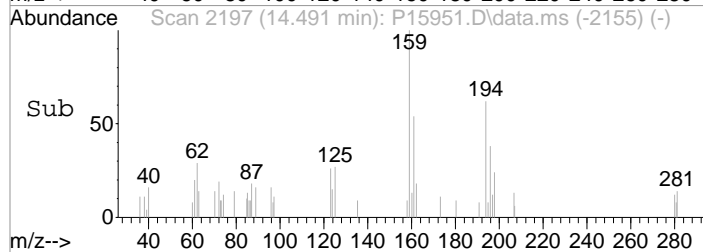
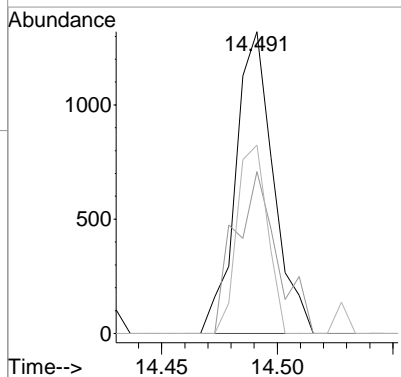
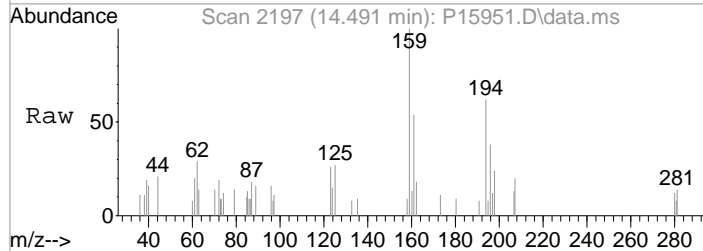
Tgt Ion	Resp	Lower	Upper
159	1579		
161	86.2	51.4	77.0#
194	34.7	34.6	51.8





#120  
2,3,6-Trichlorotoluene  
Concen: 1.10 ppb  
RT: 14.491 min Scan# 2197  
Delta R.T. 0.006 min  
Lab File: P15951.D  
Acq: 23 Feb 2018 12:12 pm

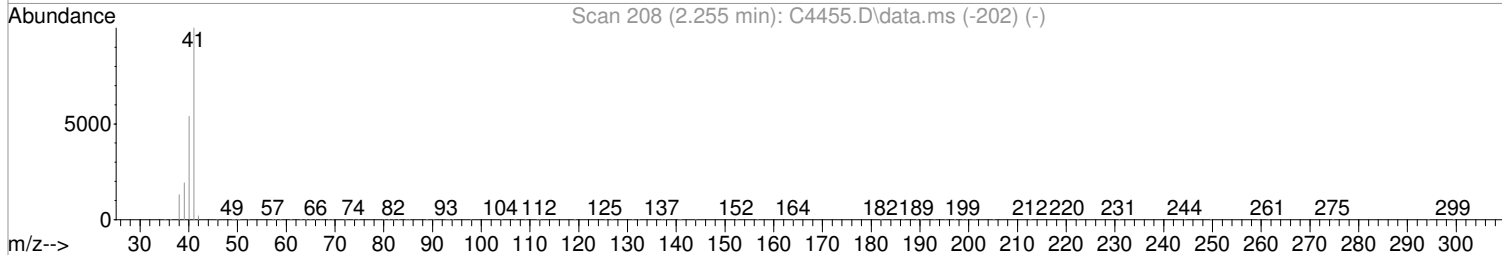
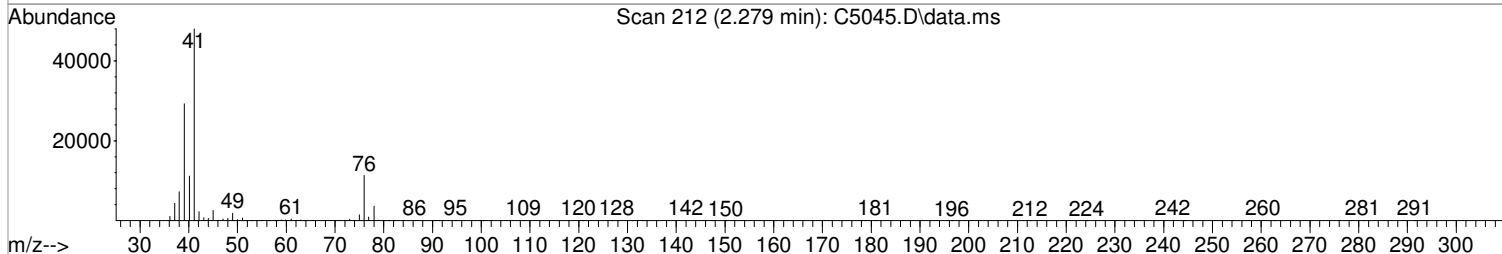
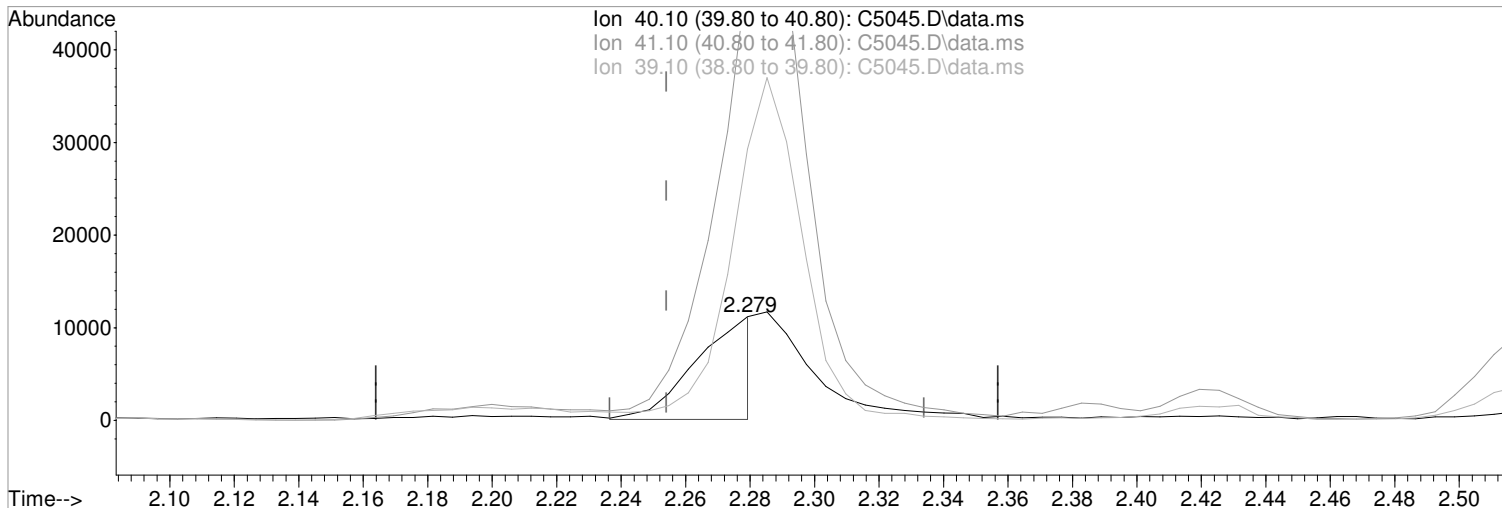
Tgt Ion	Resp	Lower	Upper
159	100		
161	53.7	52.8	79.2
194	62.4	37.7	56.5#



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5045.D  
Acq On : 22 Feb 2018 1:22 pm  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:38:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.279min (+0.025) 86.86 ug/L m  
response 13915

Manual Integration:  
After  
Poor integration.

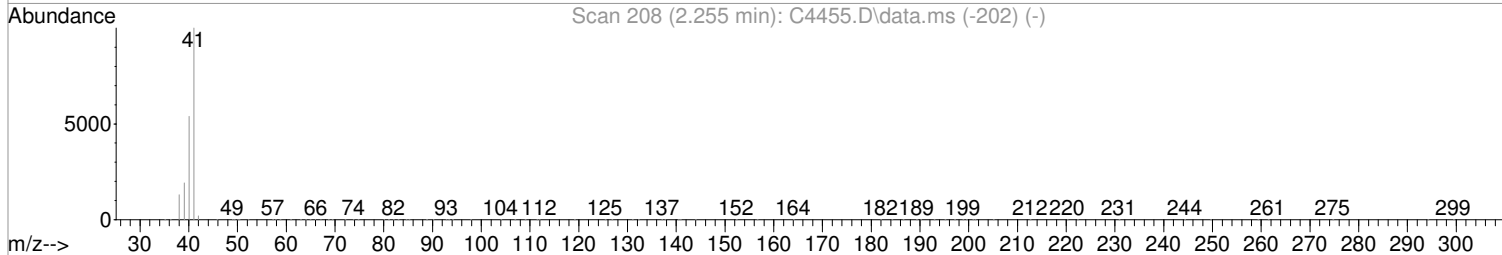
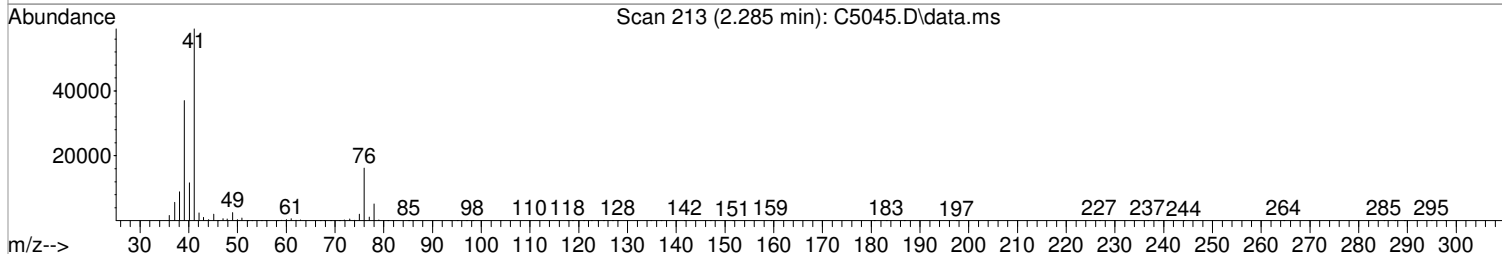
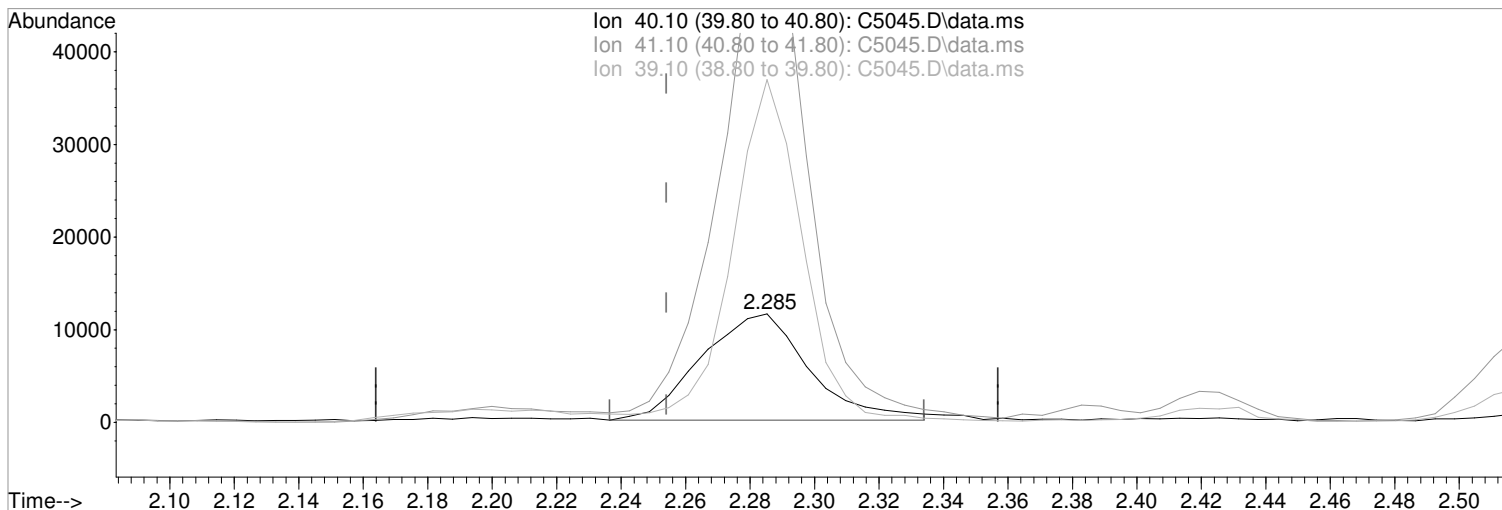
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	429.70#
39.10	36.10	262.09#
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5045.D  
Acq On : 22 Feb 2018 1:22 pm  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:38:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.031) 166.14 ug/L  
response 26617

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	505.19#
39.10	36.10	316.13#
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5045.D  
Acq On : 22 Feb 2018 1:22 pm  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:39:45 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	235493	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	355069	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	313877	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	160467	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	111395	50.38	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	100.76%	
47) SURR1,1,2-dichloroetha...	5.120	65	134307	50.71	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	101.42%	
64) SURR3,Toluene-d8	7.949	98	431012	50.97	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	101.94%	
69) SURR2,BFB	10.729	95	169308	49.63	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	99.26%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	50934	16.92	ug/L	99
3) Chloromethane	1.145	50	57489	15.76	ug/L	96
4) Vinyl Chloride	1.212	62	53558	19.19	ug/L	100
5) Bromomethane	1.413	94	32516	17.71	ug/L	99
6) Chloroethane	1.474	64	29540	19.25	ug/L	97
7) Freon 21	1.602	67	85012	20.00	ug/L	96
8) Trichlorofluoromethane	1.645	101	64538	20.20	ug/L	100
9) Diethyl Ether	1.846	59	41288	20.13	ug/L	98
10) Freon 123a	1.846	67	58744	21.64	ug/L	99
11) Freon 123	1.889	83	64780	20.78	ug/L	98
12) Acrolein	1.932	56	14631	28.72	ug/L	99
13) 1,1-Dicethene	2.005	96	38247	18.48	ug/L	98
14) Freon 113	2.011	101	39390	19.22	ug/L	96
15) Acetone	2.054	43	23442	21.97	ug/L	92
16) 2-Propanol	2.200	45	82482	339.02	ug/L	98
17) Iodomethane	2.115	142	53187	34.55	ug/L	99
18) Carbon Disulfide	2.169	76	126351	17.93	ug/L	98
19) Acetonitrile	2.279	40	13915m	86.86	ug/L	
20) Allyl Chloride	2.285	76	22140	22.02	ug/L	# 80
21) Methyl Acetate	2.310	43	38305	18.86	ug/L	99
22) Methylene Chloride	2.389	84	47226	19.25	ug/L	98
23) TBA	2.529	59	147529	339.99	ug/L	95
24) Acrylonitrile	2.602	53	95196	98.72	ug/L	97
25) Methyl-t-Butyl Ether	2.651	73	145706	19.18	ug/L	96
26) trans-1,2-Dichloroethene	2.639	96	44810	18.98	ug/L	98
27) 1,1-Dicethane	3.066	63	81331	19.54	ug/L	96
28) Vinyl Acetate	3.145	86	10921	18.63	ug/L	# 89
29) DIPE	3.181	45	142638	17.51	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	74160	19.92	ug/L	98
31) ETBE	3.633	59	134977	16.71	ug/L	99
32) 2,2-Dichloropropane	3.779	77	65752	17.57	ug/L	97
33) cis-1,2-Dichloroethene	3.779	96	51476	19.02	ug/L	98
34) 2-Butanone	3.828	43	27586	19.11	ug/L	100
35) Propionitrile	3.895	54	38340	95.43	ug/L	95
36) Bromochloromethane	4.120	130	32230	19.81	ug/L	99
37) Methacrylonitrile	4.120	67	21347	19.17	ug/L	87
38) Tetrahydrofuran	4.212	42	17354	19.27	ug/L	99
39) Chloroform	4.273	83	82572	19.58	ug/L	98
40) 1,1,1-Trichloroethane	4.547	97	67569	18.51	ug/L	98



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5045.D  
 Acq On : 22 Feb 2018 1:22 pm  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:39:45 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	129160	16.60	ug/L	100
43) Cyclohexane	4.638	41	46828	19.57	ug/L	94
45) Carbontetrachloride	4.834	121	17151	17.11	ug/L	97
46) 1,1-Dichloropropene	4.846	75	60907	18.91	ug/L	95
48) Benzene	5.218	78	176426	18.94	ug/L	99
49) 1,2-Dichloroethane	5.254	62	66900	19.08	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	49261	285.10	ug/L	98
51) n-Heptane	5.803	43	70545	25.16	ug/L	93
52) 1-Butanol	6.400	56	70076	645.69	ug/L	99
53) Trichloroethene	6.303	130	49483	19.12	ug/L	97
54) Methylcyclohexane	6.565	55	65043	19.19	ug/L	99
55) 1,2-Diclpropane	6.614	63	48225	18.93	ug/L	95
56) Dibromomethane	6.766	93	30057	19.22	ug/L	99
57) 1,4-Dioxane	6.888	88	14764	360.69	ug/L	79
58) Methyl Methacrylate	6.894	69	36734	18.22	ug/L	94
59) Bromodichloromethane	7.022	83	61469	18.68	ug/L	97
60) 2-Nitropropane	7.339	41	22436	29.71	ug/L	97
61) 2-Chloroethylvinyl Ether	7.492	63	14766	16.29	ug/L	100
62) cis-1,3-Dichloropropene	7.626	75	77038	18.51	ug/L	100
63) 4-Methyl-2-pentanone	7.870	43	52642	18.15	ug/L	99
65) Toluene	8.028	91	194268	19.09	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	68458	17.80	ug/L	99
67) Ethyl Methacrylate	8.510	69	65503	18.35	ug/L	99
68) 1,1,2-Trichloroethane	8.528	97	43641	19.24	ug/L	98
71) Tetrachloroethene	8.674	164	37797	18.23	ug/L	99
72) 2-Hexanone	8.875	43	38297	18.39	ug/L	97
73) 1,3-Dichloropropane	8.717	76	76562	19.50	ug/L	94
74) Dibromochloromethane	8.967	129	45634	17.88	ug/L	95
75) N-Butyl Acetate	9.058	43	82783	17.51	ug/L	99
76) 1,2-Dibromoethane	9.064	107	43504	18.99	ug/L	100
77) Chlorobenzene	9.613	112	131300	19.15	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	45474	18.28	ug/L	98
79) Ethylbenzene	9.753	106	67171	18.66	ug/L	97
80) (m+p)Xylene	9.875	106	166690	36.98	ug/L	99
81) o-Xylene	10.253	106	83400	18.69	ug/L	99
82) Styrene	10.265	104	142841	18.53	ug/L	99
83) Bromoform	10.418	173	28689	16.98	ug/L	99
84) Isopropylbenzene	10.613	105	211727	18.36	ug/L	99
85) Cyclohexanone	10.668	55	179557	349.97	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.936	53	16954	20.49	ug/L	87
88) 1,1,2,2-Tetrachloroethane	10.887	83	56661	18.51	ug/L	99
89) Bromobenzene	10.851	156	57161	19.95	ug/L	99
90) 1,2,3-Trichloropropane	10.906	110	18426	18.89	ug/L	90
91) n-Propylbenzene	10.985	91	249439	19.86	ug/L	99
92) 2-Chlorotoluene	11.040	91	156816	20.72	ug/L	99
93) 4-Chlorotoluene	11.137	91	180180	19.91	ug/L	99
94) 1,3,5-Trimethylbenzene	11.143	105	184100	20.04	ug/L	99
95) tert-Butylbenzene	11.424	119	158525	19.74	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	191246	20.54	ug/L	99
97) sec-Butylbenzene	11.613	105	234909	19.94	ug/L	99
98) p-Isopropyltoluene	11.741	119	207477	20.48	ug/L	99
99) 1,3-Dclbenz	11.686	146	112409	20.27	ug/L	99
100) 1,4-Dclbenz	11.759	146	113481	19.96	ug/L	95
101) n-Butylbenzene	12.082	91	193334	20.86	ug/L	99
102) 1,2-Dclbenz	12.064	146	106388	19.76	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	11573	16.45	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5045.D  
Acq On : 22 Feb 2018 1:22 pm  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:39:45 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	72375	16.29	ug/L	99
105) 1,2,4-Tcbenzene	13.368	180	77922	18.76	ug/L	99
106) Hexachlorobt	13.515	225	43650	19.69	ug/L	98
107) Naphthalen	13.551	128	164300	16.32	ug/L	100
108) 1,2,3-Tclbenzene	13.746	180	66936	17.10	ug/L	98

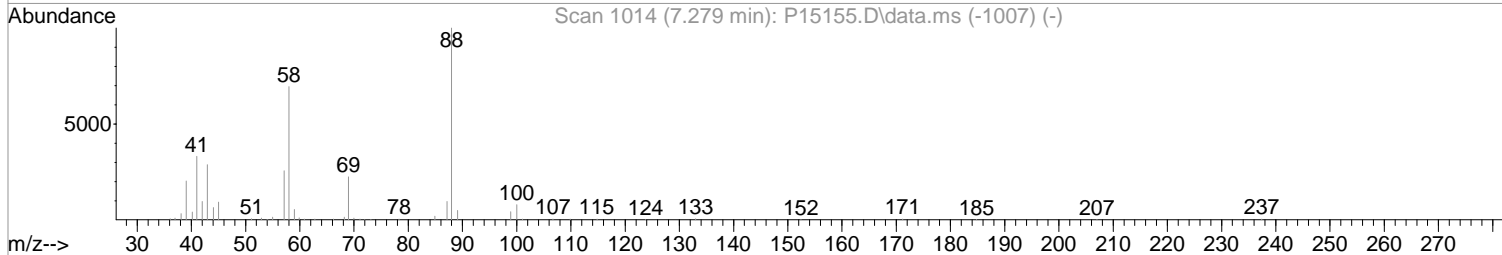
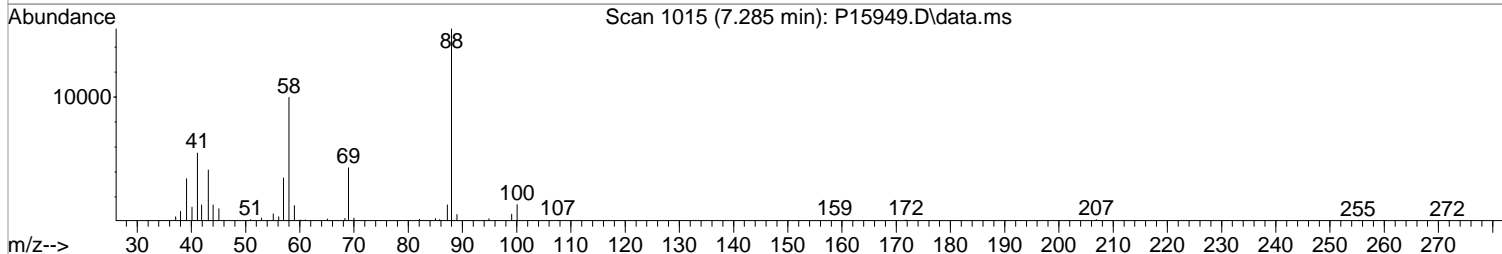
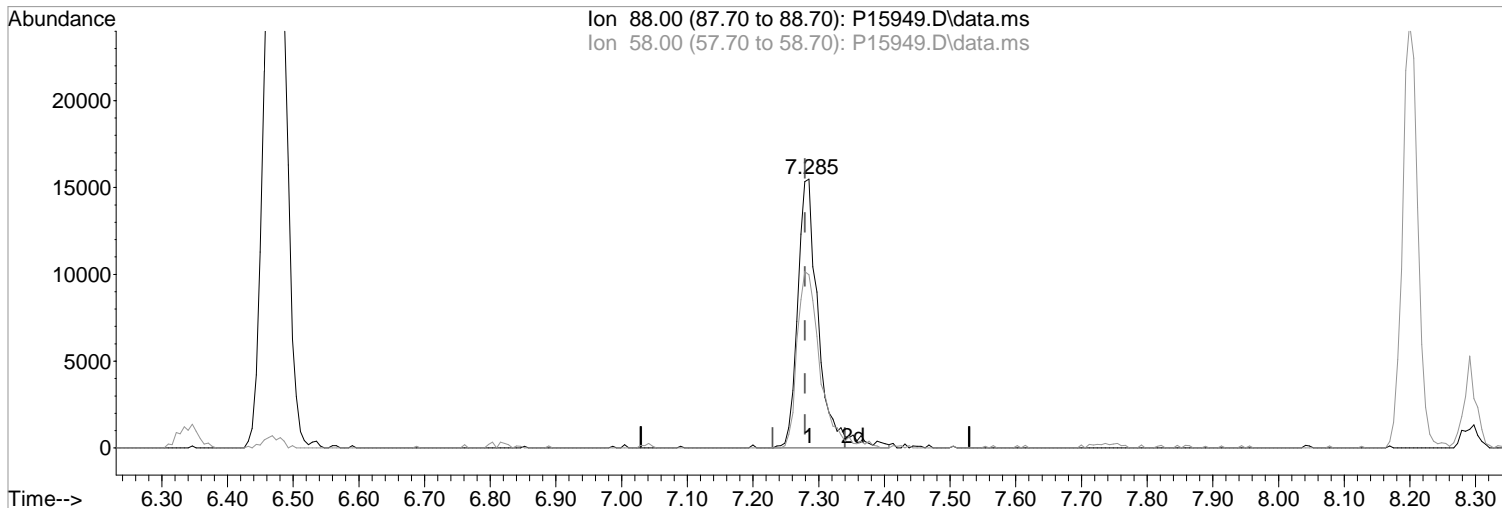
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15949.D  
Acq On : 23 Feb 2018 11:23 am  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 11:44:13 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15949.D\data.ms

(58) 1,4-Dioxane  
7.285min (+0.006) 454.35 ppb m  
response 34221

Manual Integration:  
After  
Poor integration.

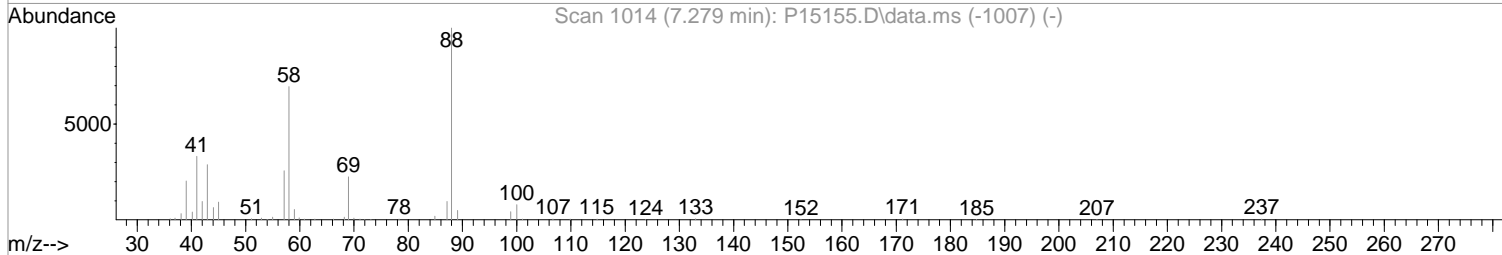
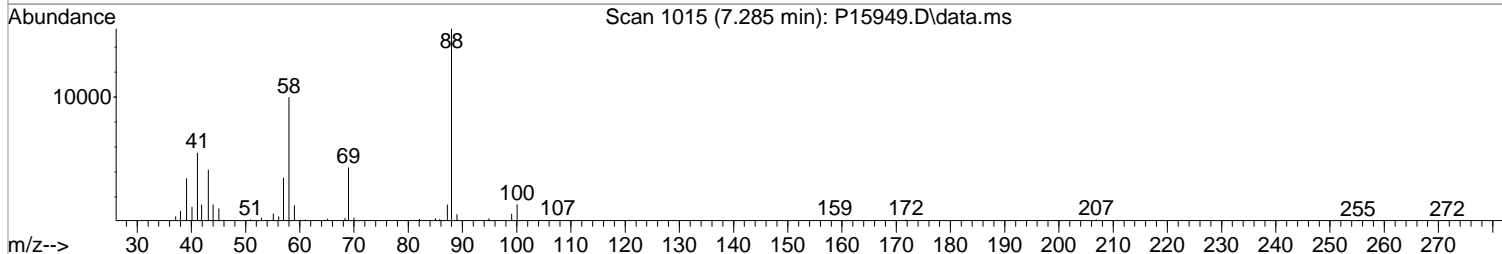
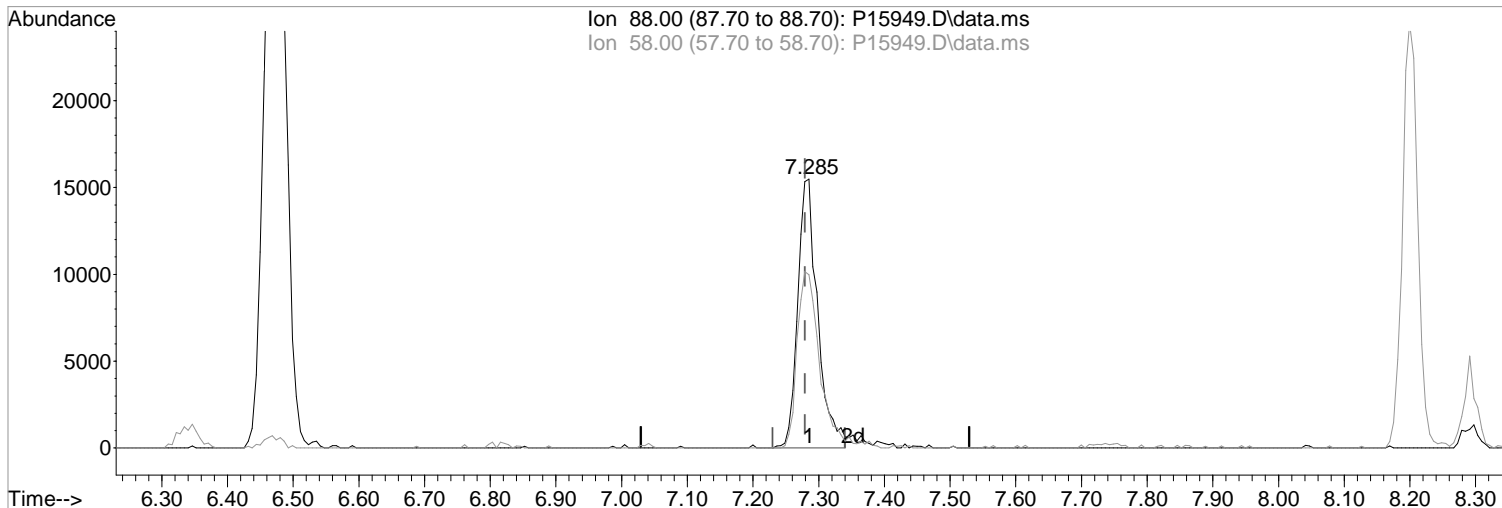
Ion	Exp%	Act%
88.00	100	100
58.00	70.00	64.36
0.00	0.00	0.00
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15949.D  
Acq On : 23 Feb 2018 11:23 am  
Operator : K.Ruest  
Sample : LCS  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 11:44:13 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15949.D\data.ms

(58) 1,4-Dioxane  
7.285min (+0.006) 432.94 ppb  
response 32608

Manual Integration:  
Before

Ion	Exp%	Act%
88.00	100	100
58.00	70.00	64.36
0.00	0.00	0.00
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
 Data File : P15949.D  
 Acq On : 23 Feb 2018 11:23 am  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 11:44:57 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	330812	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.474	114	547571	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	486304	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	247153	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	158922	48.88	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	97.76%			
48) surr1,1,2-dichloroetha...	5.773	65	220937	49.59	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.18%			
65) SURR3,Toluene-d8	8.291	98	725613	49.98	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	99.96%			
70) SURR2,BFB	10.864	95	272629	48.54	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	97.08%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	77501	19.26	ppb		94
3) Chloromethane	1.311	50	114724	22.81	ppb		99
4) Vinyl Chloride	1.384	62	107727	21.99	ppb		97
5) Bromomethane	1.609	94	68732	17.26	ppb		95
6) Chloroethane	1.689	64	61548	20.12	ppb		99
7) Freon 21	1.841	67	142984	22.61	ppb		98
8) Trichlorofluoromethane	1.884	101	105718	22.39	ppb		98
9) Diethyl Ether	2.121	59	74181	22.57	ppb		99
10) Freon 123a	2.121	67	94922	23.76	ppb		100
11) Freon 123	2.176	83	106517	23.04	ppb		95
12) Acrolein	2.219	56	32631	33.36	ppb		95
13) 1,1-Diclcethene	2.310	96	65855	19.38	ppb		98
14) Freon 113	2.317	101	64886	20.21	ppb		97
15) Acetone	2.347	43	43356	21.49	ppb		94
16) 2-Propanol	2.475	45	161400	417.03	ppb		99
17) Iodomethane	2.438	142	65657	19.24	ppb		98
18) Carbon Disulfide	2.499	76	193298	19.50	ppb		98
19) Acetonitrile	2.597	40	37822	109.82	ppb		97
20) Allyl Chloride	2.640	76	41549	22.96	ppb		98
21) Methyl Acetate	2.658	43	78655	21.84	ppb		99
22) Methylene Chloride	2.755	84	77325	21.57	ppb		97
23) TBA	2.877	59	282794	423.90	ppb		96
24) Acrylonitrile	3.005	53	215896	111.50	ppb		98
25) Methyl-t-Butyl Ether	3.054	73	258618	21.23	ppb		99
26) trans-1,2-Dichloroethene	3.048	96	73010	21.03	ppb		91
28) 1,1-Diclcethane	3.536	63	138614	21.76	ppb		98
29) Vinyl Acetate	3.627	86	21131	20.78	ppb	#	93
30) DIPE	3.664	45	261290	21.54	ppb		99
31) 2-Chloro-1,3-Butadiene	3.664	53	116591	18.93	ppb		89
32) ETBE	4.194	59	251229	20.54	ppb		97
33) 2,2-Dichloropropane	4.371	77	113721	20.08	ppb		98
34) cis-1,2-Dichloroethene	4.377	96	85787	21.71	ppb		97
35) 2-Butanone	4.420	43	53913	21.27	ppb		94
36) Propionitrile	4.499	54	90402	109.86	ppb		99
37) Bromochloromethane	4.761	130	48767	21.33	ppb		95
38) Methacrylonitrile	4.779	67	45425	23.27	ppb	#	80
39) Tetrahydrofuran	4.859	42	35567	24.06	ppb		89
40) Chloroform	4.950	83	127604	19.90	ppb		98
41) 1,1,1-Trichloroethane	5.249	97	105668	19.47	ppb		97

Data Path : I:\ACQUDATA\msvoal2\Data\022318\  
 Data File : P15949.D  
 Acq On : 23 Feb 2018 11:23 am  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 11:44:57 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.090	73	245562	20.57	ppb	97
44) Cyclohexane	5.334	41	73442	20.53	ppb	91
46) Carbontetrachloride	5.523	117	79886	19.44	ppb	94
47) 1,1-Dichloropropene	5.535	75	102744	21.30	ppb	98
49) Benzene	5.852	78	314760	22.01	ppb	97
50) 1,2-Dichloroethane	5.889	62	112986	21.50	ppb	99
51) Iso-Butyl Alcohol	5.859	43	121070	417.30	ppb	98
52) n-Heptane	6.346	43	110849	22.58	ppb	98
53) 1-Butanol	6.828	56	200228	1043.04	ppb	98
54) Trichloroethene	6.803	130	79687	21.72	ppb	95
55) Methylcyclohexane	7.041	55	109794	23.01	ppb	95
56) 1,2-Diclpropane	7.084	63	83696	21.93	ppb	100
57) Dibromomethane	7.224	93	48788	21.42	ppb	96
58) 1,4-Dioxane	7.285	88	34221m	454.35	ppb	
59) Methyl Methacrylate	7.309	69	76762	21.78	ppb	97
60) Bromodichloromethane	7.450	83	93971	19.56	ppb	95
61) 2-Nitropropane	7.730	41	50046	33.74	ppb	97
62) 2-Chloroethylvinyl Ether	7.864	63	10371	11.76	ppb	95
63) cis-1,3-Dichloropropene	7.998	75	131615	21.72	ppb	97
64) 4-Methyl-2-pentanone	8.200	43	99304	21.33	ppb	99
66) Toluene	8.364	91	337716	21.74	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	118696	21.02	ppb	100
68) Ethyl Methacrylate	8.779	69	129570	22.48	ppb	95
69) 1,1,2-Trichloroethane	8.821	97	75432	21.37	ppb	97
72) Tetrachloroethene	8.962	164	55692	20.75	ppb	95
73) 2-Hexanone	9.114	43	72566	20.27	ppb	95
74) 1,3-Dichloropropane	8.992	76	137588	22.02	ppb	97
75) Dibromochloromethane	9.218	129	63315	19.41	ppb	99
76) N-Butyl Acetate	9.273	43	150668	22.36	ppb	98
77) 1,2-Dibromoethane	9.315	107	75566	21.81	ppb	98
78) Chlorobenzene	9.815	112	213812	22.44	ppb	97
79) 3-CBTF	9.833	180	115338	22.70	ppb	95
80) 4-CBTF	9.888	180	104118	22.43	ppb	95
81) 1,1,1,2-Tetrachloroethane	9.900	131	69068	20.39	ppb	98
82) Ethylbenzene	9.931	106	109940	20.90	ppb	96
83) (m+p)Xylene	10.047	106	272886	42.86	ppb	99
84) o-Xylene	10.406	106	136166	21.36	ppb	99
85) Styrene	10.419	104	230897	21.52	ppb	98
87) Bromoform	10.565	173	39172	18.17	ppb	97
88) 2-CBTF	10.650	180	112471	23.50	ppb	90
89) Isopropylbenzene	10.742	105	340459	20.97	ppb	98
90) Cyclohexanone	10.797	55	376922	305.13	ppb	100
91) trans-1,4-Dichloro-2-B...	11.047	53	30180	23.45	ppb	92
92) 1,1,2,2-Tetrachloroethane	10.998	83	107709	21.98	ppb	97
93) Bromobenzene	10.986	156	87902	22.10	ppb	# 86
94) 1,2,3-Trichloropropane	11.028	110	34669	21.78	ppb	95
95) n-Propylbenzene	11.095	91	414597	21.96	ppb	98
96) 2-Chlorotoluene	11.156	91	261849	22.37	ppb	98
97) 3-Chlorotoluene	11.211	91	274944	22.27	ppb	97
98) 4-Chlorotoluene	11.254	91	298626	22.08	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	289721	21.33	ppb	99
100) tert-Butylbenzene	11.522	119	247212	21.09	ppb	100
101) 1,2,4-Trimethylbenzene	11.559	105	298930	21.98	ppb	99
102) 3,4-DCBTF	11.620	214	95283	25.07	ppb	100
103) sec-Butylbenzene	11.705	105	369764	21.43	ppb	99
104) p-Isopropyltoluene	11.827	119	314165	21.64	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
 Data File : P15949.D  
 Acq On : 23 Feb 2018 11:23 am  
 Operator : K.Ruest  
 Sample : LCS  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 11:44:57 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

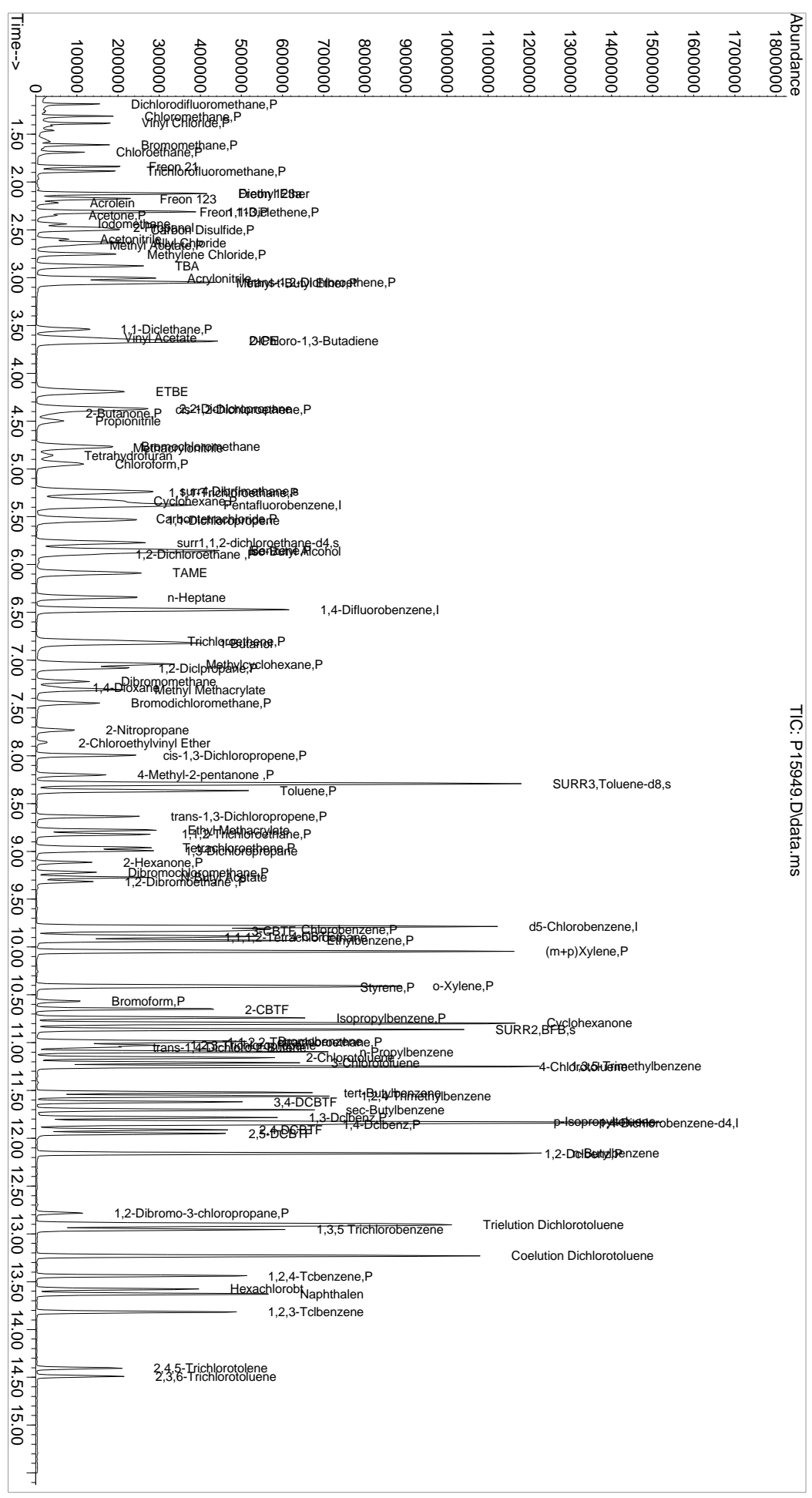
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	170301	22.53	ppb	97
106) 1,4-Dclbenz	11.857	146	174287	21.97	ppb	99
107) 2,4-DCBTF	11.912	214	84283	23.25	ppb	95
108) 2,5-DCBTF	11.955	214	96327	24.85	ppb	92
109) n-Butylbenzene	12.156	91	296872	21.92	ppb	99
110) 1,2-Dclbenz	12.162	146	171596	22.74	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.784	157	23319	18.38	ppb	94
112) Trielution Dichlorotol...	12.906	125	497733	67.07	ppb	96
113) 1,3,5 Trichlorobenzene	12.955	180	139480	23.74	ppb	92
114) Coelution Dichlorotoluene	13.229	125	350795	44.57	ppb	99
115) 1,2,4-Tcbenzene	13.442	180	124415	22.69	ppb	97
116) Hexachlorobt	13.577	225	57249	22.49	ppb	96
117) Naphthalen	13.631	128	352736	23.31	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	116620	21.89	ppb	97
119) 2,4,5-Trichlorotolene	14.406	159	39698	12.52	ppb	96
120) 2,3,6-Trichlorotoluene	14.491	159	40327	13.43	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed



02/23/18  
Data Path : I:\ACQDATA\msvoa12\Data\022318\  
Data File : P15949.D  
Acq On : 23 Feb 2018 11:23 am  
Operator : K.Ruest  
Sample : LCS  
Inst : MSVOA-12  
Sample Multiplier: 1

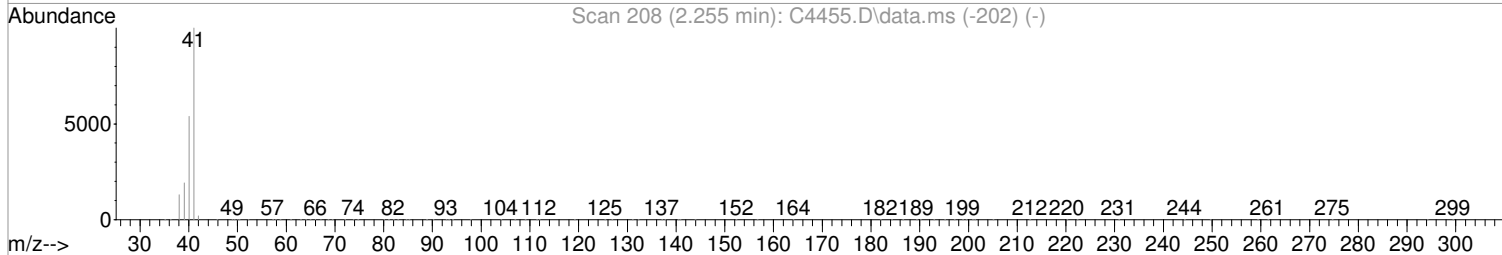
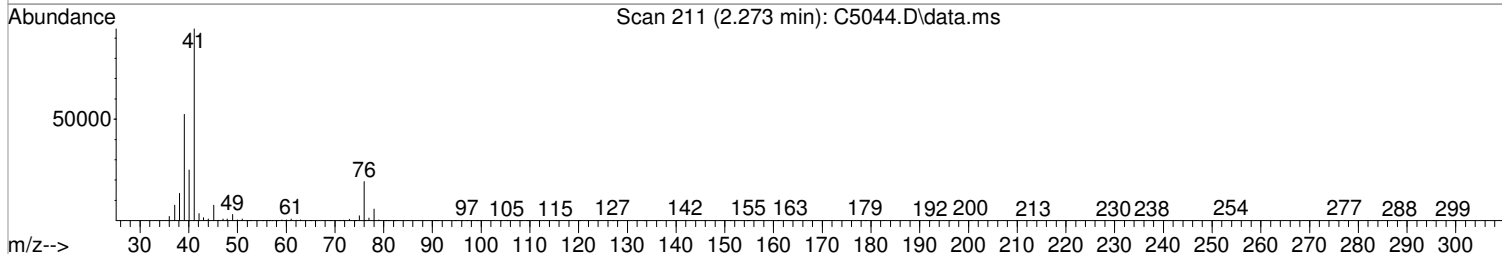
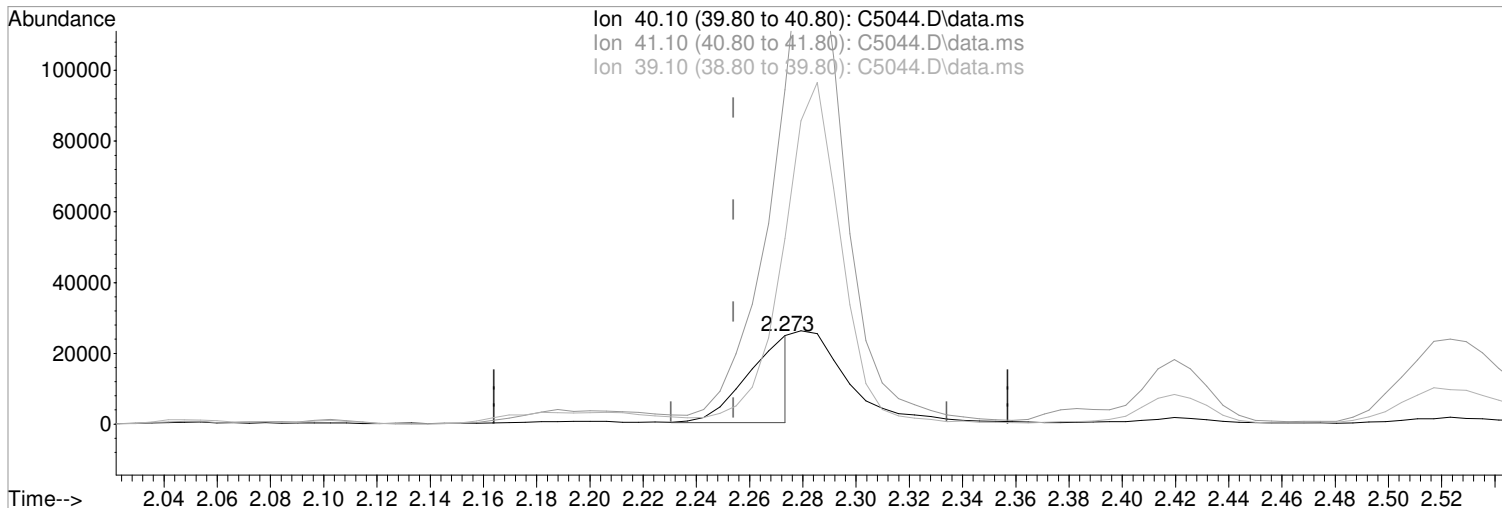
Quant Time: Feb 23 11:44:57 2018  
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QIast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:12:28 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



TIC: C5044.D\data.ms

(19) Acetonitrile  
2.273min (+0.019) 178.77 ug/L m  
response 27794

Manual Integration:  
After  
Poor integration.

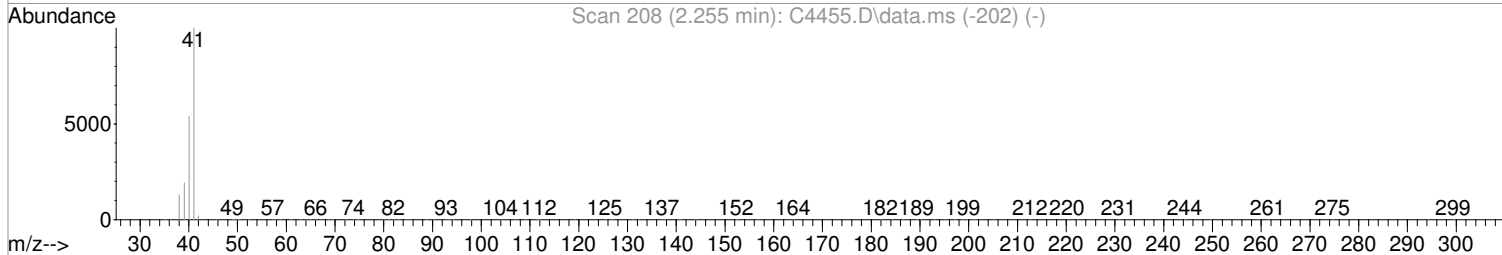
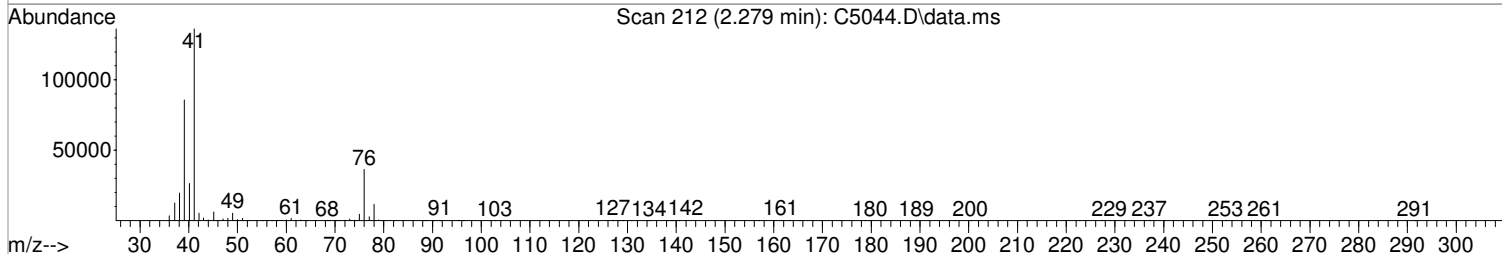
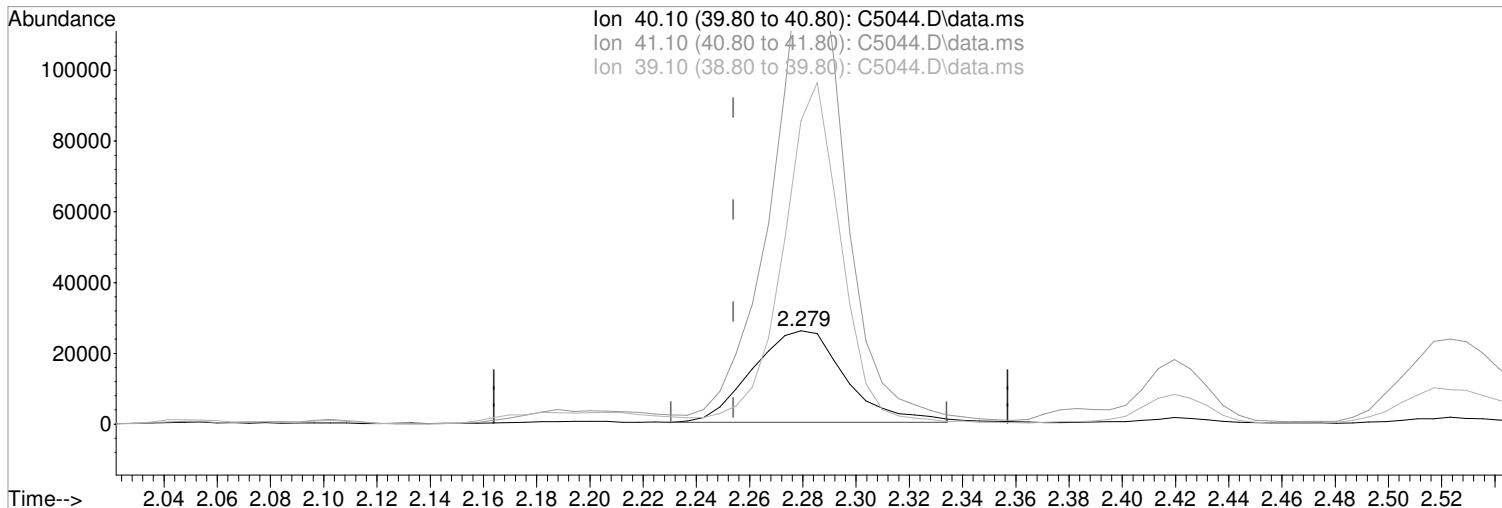
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	378.23#
39.10	36.10	209.70#
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:12:28 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.279min (+0.025) 403.93 ug/L  
response 62800

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	516.59#
39.10	36.10	325.02#
0.00	0.00	0.00

02/22/18

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:15:29 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2 P	Dichlorodifluoromethane	0.639	0.729	-14.1	105	0.00
3 P	Chloromethane	0.774	0.685	11.5	88	0.00
4 P	Vinyl Chloride	0.592	0.664	-12.2	108	0.00
5 P	Bromomethane	0.370	0.363	1.9	97	0.00
6 P	Chloroethane	0.326	0.360	-10.4	96	0.00
7	Freon 21	0.902	0.987	-9.4	103	0.00
8 P	Trichlorofluoromethane	0.678	0.754	-11.2	108	0.00
9	Diethyl Ether	0.436	0.438	-0.5	96	0.00
10	Freon 123a	0.576	0.617	-7.1	105	0.00
11	Freon 123	0.662	0.707	-6.8	105	0.00
12	Acrolein	0.108	0.082	24.1#	74	0.00
13	1,1-Dicethene	0.439	0.467	-6.4	105	0.00
14 P	Freon 113	0.435	0.515	-18.4	118	0.00
15 P	Acetone	0.227	0.226	0.4	92	0.00
16	2-Propanol	0.052	0.046	11.5	82	0.04
17	Iodomethane	0.390	0.695	-78.2#	212#	0.00
18 P	Carbon Disulfide	1.496	1.420	5.1	97	0.00
19	Acetonitrile	0.034	0.024	29.4#	70	0.02
20	Allyl Chloride	0.213	0.259	-21.6#	121	0.00
21 P	Methyl Acetate	0.431	0.448	-3.9	98	0.00
22 P	Methylene Chloride	0.521	0.509	2.3	99	0.00
23	TBA	0.092	0.075	18.5	76	0.02
24	Acrylonitrile	0.205	0.200	2.4	90	0.00
25 P	Methyl-t-Butyl Ether	1.613	1.541	4.5	91	0.00
26 P	trans-1,2-Dichloroethene	0.501	0.518	-3.4	104	0.00
27 P	1,1-Dicethane	0.884	0.929	-5.1	103	0.00
28	Vinyl Acetate	0.124	0.102	17.7	81	-0.01
29	DIPE	1.729	1.744	-0.9	99	-0.01
30	2-Chloro-1,3-Butadiene	0.790	0.840	-6.3	108	0.00
31	ETBE	1.715	1.633	4.8	94	0.00
32	2,2-Dichloropropane	0.794	0.788	0.8	99	0.00
33 P	cis-1,2-Dichloroethene	0.575	0.572	0.5	99	0.00
34 P	2-Butanone	0.306	0.283	7.5	89	0.00
35	Propionitrile	0.085	0.080	5.9	89	0.00
36	Bromochloromethane	0.345	0.351	-1.7	101	-0.01
37	Methacrylonitrile	0.236	0.212	10.2	86	0.00
38	Tetrahydrofuran	0.191	0.173	9.4	85	0.00
39 P	Chloroform	0.896	0.923	-3.0	101	0.00
40 P	1,1,1-Trichloroethane	0.775	0.806	-4.0	100	0.00
41	TAME	1.652	1.525	7.7	91	-0.01
42 i	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
43 P	Cyclohexane	0.337	0.374	-11.0	107	0.00
44 s	SURR4,Dibrflmethane	0.311	0.311	0.0	93	0.00
45 P	Carbontetrachloride	0.141	0.142	-0.7	100	0.00
46	1,1-Dichloropropene	0.453	0.487	-7.5	107	0.00
47 s	SURR1,1,2-dichloroethane-d4	0.373	0.367	1.6	92	0.00
48 P	Benzene	1.312	1.337	-1.9	102	0.00
49 P	1,2-Dichloroethane	0.494	0.482	2.4	96	0.00
50	Iso-Butyl Alcohol	0.024	0.018	25.0#	70	0.02
51	n-Heptane	0.423	0.575	-35.9#	130	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:15:29 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	1-Butanol	0.015	0.011	26.7#	68	0.02
53 P	Trichloroethene	0.364	0.374	-2.7	104	0.00
54 P	Methylcyclohexane	0.477	0.515	-8.0	107	0.00
55 P	1,2-Diclp propane	0.359	0.361	-0.6	100	0.00
56	Dibromomethane	0.220	0.211	4.1	93	0.00
57	1,4-Dioxane	0.006	0.005	16.7	82	0.04
58	Methyl Methacrylate	0.284	0.251	11.6	84	0.00
59 P	Bromodichloromethane	0.463	0.452	2.4	95	0.00
60	2-Nitropropane	0.106	0.088	17.0	77	0.00
61	2-Chloroethylvinyl Ether	0.128	0.116	9.4	82	0.00
62 P	cis-1,3-Dichloropropene	0.586	0.575	1.9	94	0.00
63 P	4-Methyl-2-pentanone	0.408	0.358	12.3	84	0.00
64 s	SURR3,Toluene-d8	1.191	1.223	-2.7	95	0.00
65 P	Toluene	1.433	1.462	-2.0	101	0.00
66 P	trans-1,3-Dichloropropene	0.542	0.505	6.8	88	0.00
67	Ethyl Methacrylate	0.503	0.448	10.9	83	0.00
68 P	1,1,2-Trichloroethane	0.319	0.299	6.3	91	0.00
69 s	SURR2,BFB	0.480	0.462	3.7	90	0.00
70 i	d5-Chlorobenzene	1.000	1.000	0.0	93	0.00
71 P	Tetrachloroethene	0.330	0.341	-3.3	104	0.00
72 P	2-Hexanone	0.332	0.298	10.2	82	0.00
73	1,3-Dichloropropene	0.625	0.605	3.2	94	0.00
74 P	Dibromochloromethane	0.407	0.380	6.6	88	0.00
75	N-Butyl Acetate	0.753	0.669	11.2	81	0.00
76 P	1,2-Dibromoethane	0.365	0.347	4.9	89	0.00
77 P	Chlorobenzene	1.092	1.089	0.3	97	0.00
78	1,1,1,2-Tetrachloroethane	0.396	0.379	4.3	93	0.00
79 P	Ethylbenzene	0.573	0.584	-1.9	100	0.00
80 P	(m+p)Xylene	0.718	0.731	-1.8	100	0.00
81 P	o-Xylene	0.711	0.716	-0.7	98	0.00
82 P	Styrene	1.228	1.219	0.7	95	0.00
83 P	Bromoform	0.269	0.237	11.9	80	0.00
84 P	Isopropylbenzene	1.837	1.925	-4.8	101	0.00
85	Cyclohexanone	0.082	0.106	-29.3#	123	0.00
86	trans-1,4-Dichloro-2-Butene	0.132	0.118	10.6	84	0.00
87 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
88 P	1,1,2,2-Tetrachloroethane	0.954	0.861	9.7	80	0.00
89	Bromobenzene	0.893	0.920	-3.0	95	0.00
90	1,2,3-Trichloropropene	0.304	0.285	6.3	83	0.00
91	n-Propylbenzene	3.913	4.405	-12.6	105	0.00
92	2-Chlorotoluene	2.359	2.553	-8.2	101	0.00
93	4-Chlorotoluene	2.820	3.019	-7.1	100	0.00
94	1,3,5-Trimethylbenzene	2.863	3.126	-9.2	102	0.00
95	tert-Butylbenzene	2.502	2.749	-9.9	101	0.00
96	1,2,4-Trimethylbenzene	2.901	3.104	-7.0	99	0.00
97	sec-Butylbenzene	3.671	4.153	-13.1	105	0.00
98	p-Isopropyltoluene	3.156	3.520	-11.5	104	0.00
99 P	1,3-Dclbenz	1.728	1.798	-4.1	98	0.00
100 P	1,4-Dclbenz	1.772	1.791	-1.1	95	0.00
101	n-Butylbenzene	2.888	3.333	-15.4	108	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV Inst : MSVOA14  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 13:15:29 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102 P	1,2-Dclbenz	1.678	1.668	0.6	92	0.00
103 P	1,2-Dibromo-3-chloropropane	0.219	0.170	22.4#	65	0.00
104	1,3,5-Trichlorobenzene	1.385	1.377	0.6	95	0.00
105 P	1,2,4-Tcbenzene	1.294	1.153	10.9	84	0.00
106	Hexachlorobt	0.691	0.708	-2.5	95	0.00
107	Naphthalen	3.138	2.232	28.9#	64	0.00
108	1,2,3-Tclbenzene	1.220	0.926	24.1#	71	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:15:29 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	228532	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	344077	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	304301	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	155783	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) SURR4,Dibrflmethane	4.529	113	107021	49.95	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery	=	99.90%		
47) SURR1,1,2-dichloroetha...	5.114	65	126219	49.18	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery	=	98.36%		
64) SURR3,Toluene-d8	7.949	98	420800	51.36	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery	=	102.72%		
69) SURR2,BFB	10.735	95	159025	48.11	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery	=	96.22%		
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.036	85	166632	57.05	ug/L		100
3) Chloromethane	1.145	50	156521	44.23	ug/L		99
4) Vinyl Chloride	1.212	62	151677	56.01	ug/L		99
5) Bromomethane	1.414	94	82861	49.37	ug/L		97
6) Chloroethane	1.475	64	82276	55.25	ug/L		98
7) Freon 21	1.597	67	225465	54.67	ug/L		99
8) Trichlorofluoromethane	1.639	101	172282	55.58	ug/L		98
9) Diethyl Ether	1.840	59	100138	50.30	ug/L		99
10) Freon 123a	1.840	67	141044	53.54	ug/L		96
11) Freon 123	1.883	83	161537	53.40	ug/L		98
12) Acrolein	1.926	56	93929	189.97	ug/L		97
13) 1,1-Diclcethene	2.005	96	106667	53.10	ug/L		98
14) Freon 113	2.011	101	117694	59.16	ug/L		100
15) Acetone	2.048	43	51645	49.87	ug/L		96
16) 2-Propanol	2.194	45	208610	883.55	ug/L		93
17) Iodomethane	2.115	142	158854	84.52	ug/L		100
18) Carbon Disulfide	2.170	76	324612	47.47	ug/L		98
19) Acetonitrile	2.273	40	27794m	178.77	ug/L		
20) Allyl Chloride	2.285	76	59086	60.56	ug/L	#	86
21) Methyl Acetate	2.310	43	102394	51.95	ug/L		98
22) Methylene Chloride	2.383	84	116365	48.88	ug/L		95
23) TBA	2.523	59	341597	811.21	ug/L		98
24) Acrylonitrile	2.602	53	228021	243.66	ug/L		99
25) Methyl-t-Butyl Ether	2.651	73	352239	47.77	ug/L		96
26) trans-1,2-Dichloroethene	2.639	96	118268	51.63	ug/L		100
27) 1,1-Diclcethane	3.060	63	212333	52.56	ug/L		98
28) Vinyl Acetate	3.139	86	23261	40.88	ug/L	#	71
29) DIPE	3.175	45	398545	50.43	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.169	53	191990	53.15	ug/L		96
31) ETBE	3.633	59	373223	47.62	ug/L		99
32) 2,2-Dichloropropane	3.773	77	180147	49.61	ug/L		100
33) cis-1,2-Dichloroethene	3.779	96	130634	49.73	ug/L		94
34) 2-Butanone	3.828	43	64563	46.09	ug/L		99
35) Propionitrile	3.895	54	90887	233.11	ug/L		95
36) Bromochloromethane	4.114	130	80171	50.78	ug/L		95
37) Methacrylonitrile	4.120	67	48498	44.89	ug/L		95
38) Tetrahydrofuran	4.212	42	39529	45.22	ug/L		97
39) Chloroform	4.273	83	210932	51.53	ug/L		99
40) 1,1,1-Trichloroethane	4.541	97	184183	51.98	ug/L		99



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
 Data File : C5044.D  
 Acq On : 22 Feb 2018 12:52 pm  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 22 13:15:29 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.504	73	348525	46.14	ug/L	98
43) Cyclohexane	4.639	41	128650	55.47	ug/L	97
45) Carbontetrachloride	4.840	121	48783	50.23	ug/L	98
46) 1,1-Dichloropropene	4.846	75	167432	53.65	ug/L	98
48) Benzene	5.218	78	459906	50.94	ug/L	100
49) 1,2-Dichloroethane	5.254	62	165937	48.83	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	127116	759.18	ug/L	97
51) n-Heptane	5.803	43	197696	68.31	ug/L	98
52) 1-Butanol	6.394	56	197484	1877.78	ug/L	94
53) Trichloroethene	6.303	130	128760	51.34	ug/L	98
54) Methylcyclohexane	6.565	55	177032	53.90	ug/L	99
55) 1,2-Diclpropane	6.608	63	124186	50.30	ug/L	97
56) Dibromomethane	6.760	93	72606	47.92	ug/L	96
57) 1,4-Dioxane	6.888	88	35397	892.38	ug/L	91
58) Methyl Methacrylate	6.888	69	86475	44.25	ug/L	98
59) Bromodichloromethane	7.028	83	155466	48.77	ug/L	99
60) 2-Nitropropane	7.339	41	60250	82.32	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	40045	45.59	ug/L	99
62) cis-1,3-Dichloropropene	7.626	75	198001	49.09	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	123250	43.86	ug/L	98
65) Toluene	8.028	91	503058	51.01	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	173660	46.60	ug/L	100
67) Ethyl Methacrylate	8.510	69	154027	44.53	ug/L	100
68) 1,1,2-Trichloroethane	8.528	97	102882	46.81	ug/L	97
71) Tetrachloroethene	8.674	164	103838	51.66	ug/L	98
72) 2-Hexanone	8.869	43	90677	44.90	ug/L	97
73) 1,3-Dichloropropane	8.717	76	183955	48.33	ug/L	96
74) Dibromochloromethane	8.967	129	115552	46.70	ug/L	98
75) N-Butyl Acetate	9.058	43	203657	44.43	ug/L	100
76) 1,2-Dibromoethane	9.058	107	105576	47.54	ug/L	99
77) Chlorobenzene	9.613	112	331300	49.85	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	115418	47.86	ug/L	99
79) Ethylbenzene	9.753	106	177665	50.92	ug/L	94
80) (m+p)Xylene	9.875	106	445101	101.86	ug/L	98
81) o-Xylene	10.253	106	217776	50.35	ug/L	98
82) Styrene	10.266	104	371030	49.64	ug/L	99
83) Bromoform	10.418	173	72267	44.12	ug/L	98
84) Isopropylbenzene	10.613	105	585655	52.38	ug/L	100
85) Cyclohexanone	10.668	55	647859	1302.46	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.936	53	35972	44.84	ug/L	91
88) 1,1,2,2-Tetrachloroethane	10.887	83	134095	45.13	ug/L	97
89) Bromobenzene	10.851	156	143379	51.54	ug/L	98
90) 1,2,3-Trichloropropane	10.906	110	44351	46.85	ug/L	98
91) n-Propylbenzene	10.985	91	686205	56.29	ug/L	99
92) 2-Chlorotoluene	11.040	91	397688	54.12	ug/L	99
93) 4-Chlorotoluene	11.137	91	470273	53.52	ug/L	98
94) 1,3,5-Trimethylbenzene	11.143	105	486950	54.59	ug/L	97
95) tert-Butylbenzene	11.424	119	428195	54.93	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	483528	53.50	ug/L	100
97) sec-Butylbenzene	11.613	105	646979	56.56	ug/L	99
98) p-Isopropyltoluene	11.741	119	548333	55.76	ug/L	99
99) 1,3-Dclbenz	11.686	146	280092	52.04	ug/L	99
100) 1,4-Dclbenz	11.765	146	278954	50.53	ug/L	97
101) n-Butylbenzene	12.082	91	519301	57.70	ug/L	99
102) 1,2-Dclbenz	12.064	146	259868	49.72	ug/L	97
103) 1,2-Dibromo-3-chloropr...	12.704	157	26539	38.85	ug/L	95



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5044.D  
Acq On : 22 Feb 2018 12:52 pm  
Operator : K.Ruest  
Sample : CCV Inst : MSVOA14  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 22 13:15:29 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	214492	49.72	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	179589	44.54	ug/L	100
106) Hexachlorobt	13.515	225	110278	51.24	ug/L	98
107) Naphthalen	13.552	128	347759	35.57	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	144265	37.96	ug/L	96

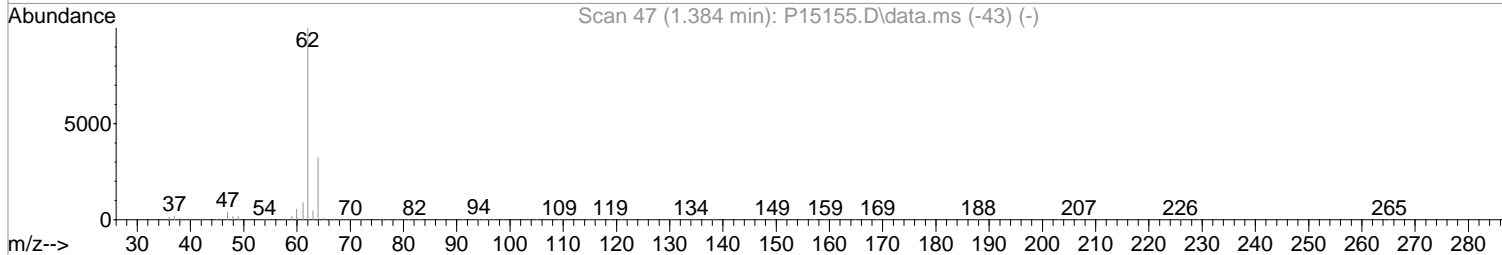
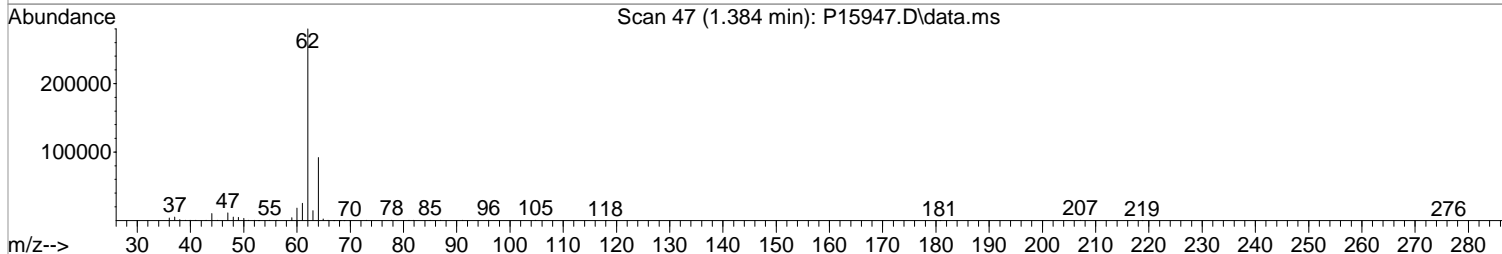
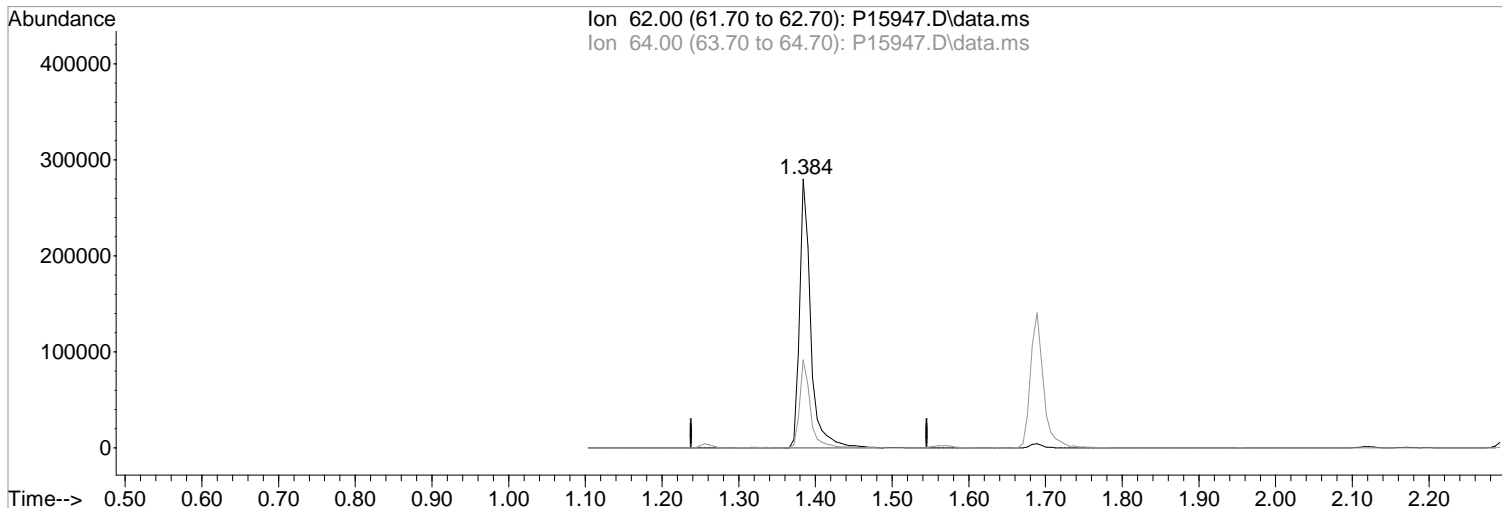
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15947.D  
Acq On : 23 Feb 2018 10:25 am  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:41:35 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15947.D\data.ms

(4) Vinyl Chloride (P)

1.384min (-0.000) 54.59 ppb m

response 281656

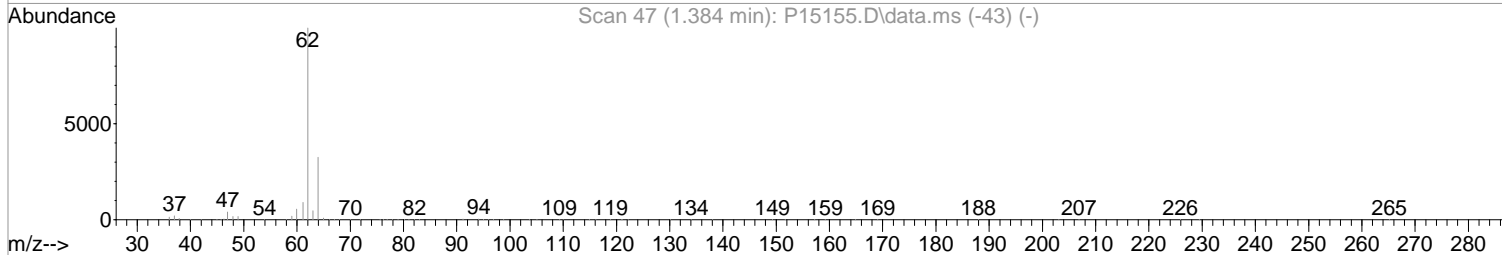
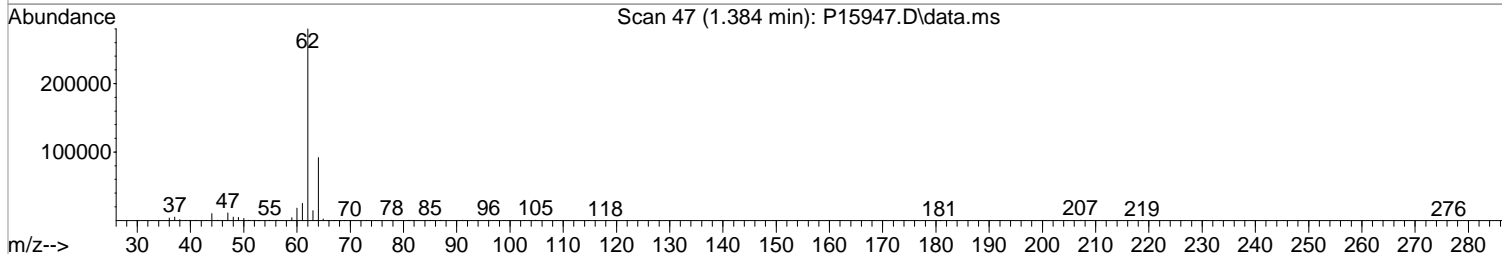
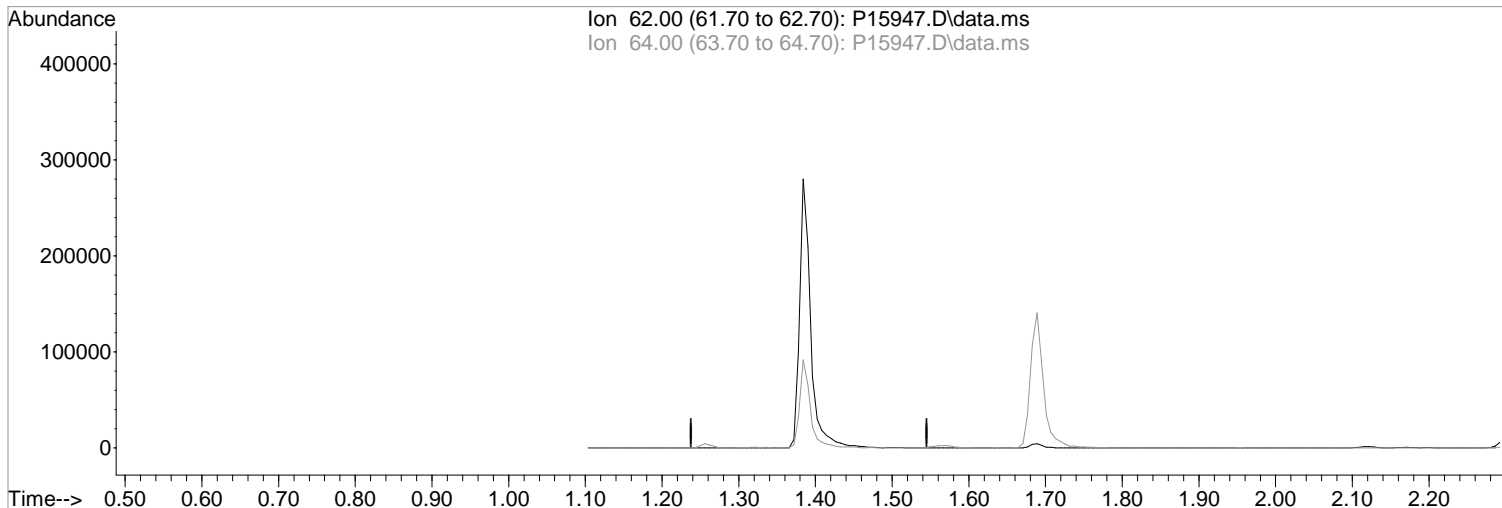
Ion	Exp%	Act%
62.00	100	100
64.00	32.80	32.79
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:  
After  
Peak not found.  
02/23/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15947.D  
Acq On : 23 Feb 2018 10:25 am  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:41:35 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15947.D\data.ms

(4) Vinyl Chloride (P)  
1.384min (-1.384) 0.00 ppb  
response 0

Manual Integration:  
Before

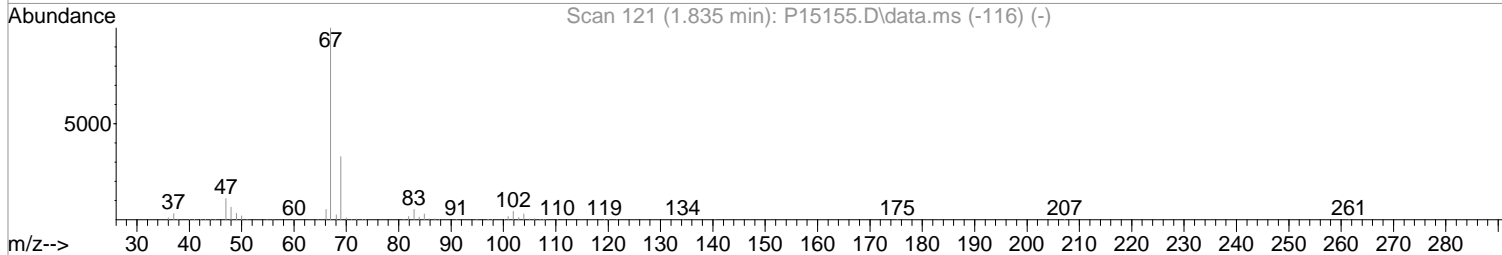
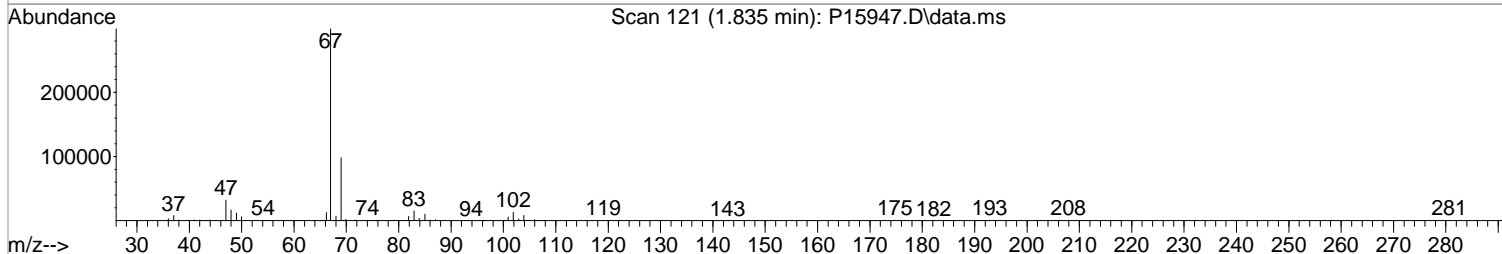
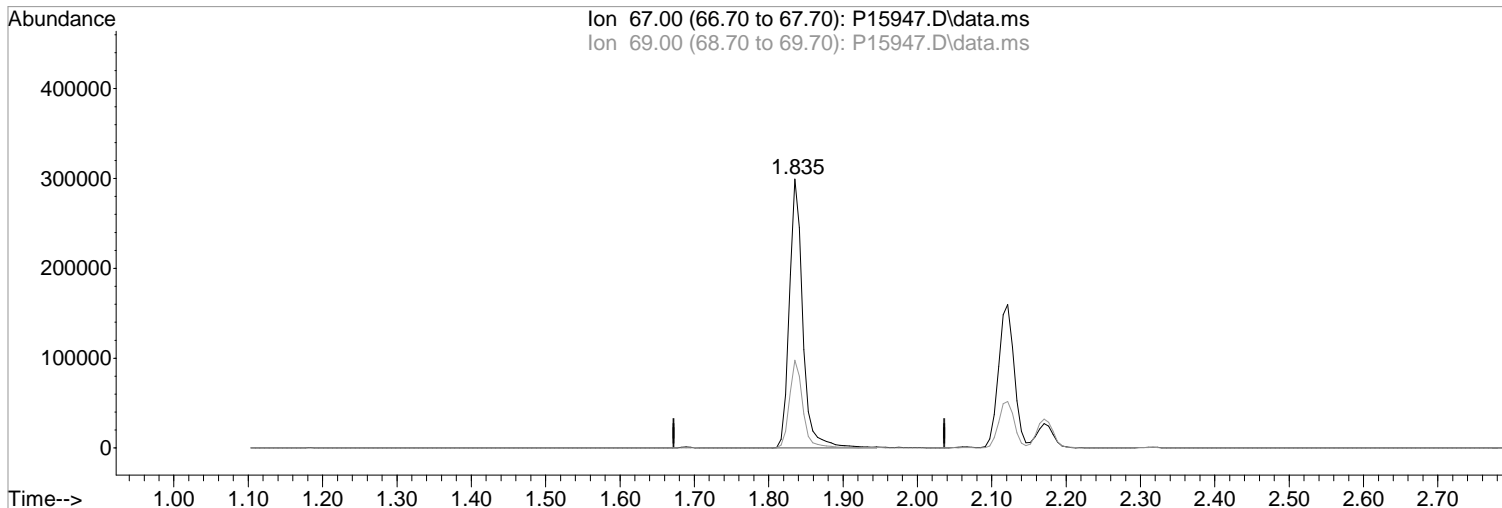
Ion	Exp%	Act%
62.00	100	0.00
64.00	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15947.D  
Acq On : 23 Feb 2018 10:25 am  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:41:35 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15947.D\data.ms

(7) Freon 21  
1.835min (-0.000) 56.66 ppb m  
response 377367

Manual Integration:  
After  
Peak not found.

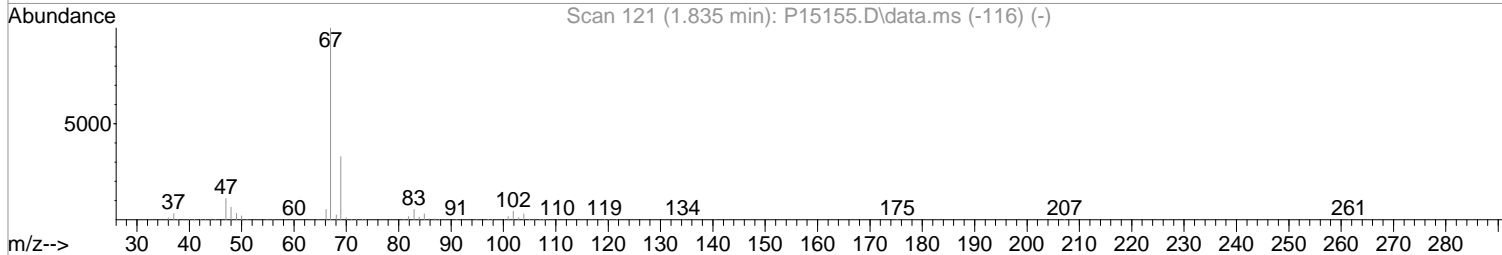
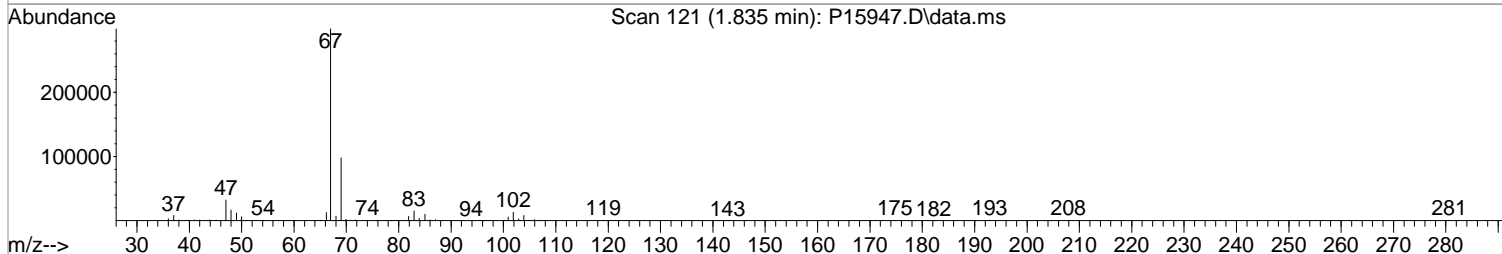
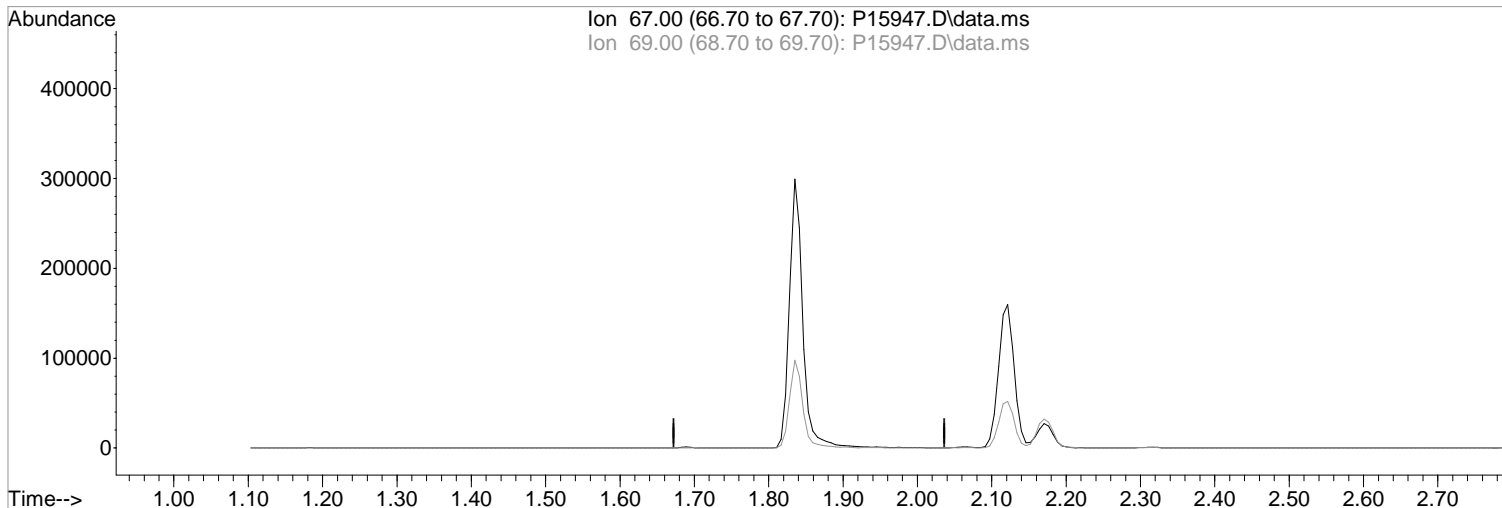
Ion	Exp%	Act%
67.00	100	100
69.00	32.90	32.68
0.00	0.00	0.00
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15947.D  
Acq On : 23 Feb 2018 10:25 am  
Operator : K.Ruest  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:41:35 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



TIC: P15947.D\data.ms

(7) Freon 21

1.835min (-1.835) 0.00 ppb  
response 0

Manual Integration:

Before

Ion	Exp%	Act%
67.00	100	0.00
69.00	32.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

02/23/18

Data Path : I:\ACQUDATA\msvoal2\Data\022318\  
 Data File : P15947.D  
 Acq On : 23 Feb 2018 10:25 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:42:11 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.0000	1.0000	0.0	122	0.00
2 P	Dichlorodifluoromethane	0.6083	0.6759	-11.1	127	0.00
3 P	Chloromethane	0.7602	0.8405	-10.6	140	0.00
4 P	Vinyl Chloride	0.7405	0.8086	-9.2	132	0.00
5 P	Bromomethane	0.5812	0.5078	6.6	<del>12.6</del> 133	0.00
6 P	Chloroethane	0.4623	0.4744	-2.6	125	0.00
7	Freon 21	0.9560	1.0833	-13.3	137	0.00
8 P	Trichlorofluoromethane	0.7136	0.7603	-6.5	131	0.00
9	Diethyl Ether	0.4967	0.5417	-9.1	141	0.00
10	Freon 123a	0.6039	0.6670	-10.4	137	0.00
11	Freon 123	0.6987	0.7811	-11.8	138	0.00
12	Acrolein	0.1478	0.1331	9.9	113	0.00
13 P	1,1-Dicethene	0.5136	0.5087	1.0	132	0.00
14 P	Freon 113	0.4853	0.5187	-6.9	136	0.00
15 P	Acetone	0.3049	0.2836	7.0	113	0.00
16	2-Propanol	0.0585	0.0619	-5.8	139	0.00
17	Iodomethane	0.5271	0.6182	0.9	<del>17.3</del> 118	0.00
18 P	Carbon Disulfide	1.4979	1.4753	1.5	119	0.00
19	Acetonitrile	0.0521	0.0544	-4.4	138	0.00
20	Allyl Chloride	0.2735	0.3050	-11.5	143	0.00
21 P	Methyl Acetate	0.5445	0.6451	-18.5	152	0.00
22 P	Methylene Chloride	0.5417	0.5845	-7.9	136	0.00
23	TBA	0.1008	0.1010	-0.2	131	0.00
24	Acrylonitrile	0.2927	0.3138	-7.2	138	0.00
25 P	Methyl-t-Butyl Ether	1.8411	1.9091	-3.7	130	0.00
26 P	trans-1,2-Dichloroethene	0.5246	0.5540	-5.6	132	0.00
27	Halothane	0.0000	0.0000	0.0	0#	-4.00#
28 P	1,1-Dicethane	0.9627	1.0314	-7.1	133	0.00
29	Vinyl Acetate	0.1537	0.1512	1.6	124	0.01
30	DIPE	1.8333	1.9263	-5.1	132	0.00
31	2-Chloro-1,3-Butadiene	0.9310	0.9346	-0.4	128	0.00
32	ETBE	1.8488	1.9072	-3.2	125	0.02
33	2,2-Dichloropropane	0.8561	0.8640	-0.9	129	0.00
34 P	cis-1,2-Dichloroethene	0.5972	0.6335	-6.1	134	0.00
35 P	2-Butanone	0.3831	0.4018	-4.9	131	0.00
36	Propionitrile	0.1244	0.1265	-1.7	135	-0.01
37	Bromochloromethane	0.3456	0.3566	-3.2	134	0.02
38	Methacrylonitrile	0.2950	0.3126	-6.0	132	0.00
39	Tetrahydrofuran	0.2235	0.2490	-11.4	139	0.00
40 P	Chloroform	0.9692	0.9625	0.7	132	0.00
41 P	1,1,1-Trichloroethane	0.8203	0.8045	1.9	130	0.01
42	TAME	1.8047	1.8065	-0.1	123	0.00
43 I	1,4-Difluorobenzene	1.0000	1.0000	0.0	122	0.00
44 P	Cyclohexane	0.3267	0.3587	-9.8	141	0.00
45 s	surr4,Dibrflmethane	0.2969	0.2980	-0.4	123	0.00
46 P	Carbontetrachloride	0.3753	0.3819	-1.8	124	0.00
47	1,1-Dichloropropene	0.4404	0.4760	-8.1	134	0.02
48 s	surr1,1,2-dichloroethane-d4	0.4068	0.4102	-0.8	122	0.00
49 P	Benzene	1.3061	1.4307	-9.5	136	0.00
50 P	1,2-Dichloroethane	0.4798	0.5046	-5.2	131	0.00
51	Iso-Butyl Alcohol	0.0265	0.0272	-2.6	133	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\022318\  
 Data File : P15947.D  
 Acq On : 23 Feb 2018 10:25 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:42:11 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	n-Heptane	0.4483	0.5343	-19.2	148	0.02
53	1-Butanol	0.0175	0.0183	-4.6	129	0.00
54 P	Trichloroethene	0.3350	0.3555	-6.1	130	0.00
55 P	Methylcyclohexane	0.4357	0.5192	-19.2	143	0.00
56 P	1,2-Diclp propane	0.3484	0.3719	-6.7	134	0.01
57	Dibromomethane	0.2080	0.2192	-5.4	132	0.00
58	1,4-Dioxane	0.0069	0.0075	-8.7	142	0.00
59	Methyl Methacrylate	0.3218	0.3303	-2.6	131	0.00
60 P	Bromodichloromethane	0.4386	0.4208	4.1	125	0.00
61	2-Nitropropane	0.1354	0.1159	14.4	108	0.00
62	2-Chloroethylvinyl Ether	0.0805	0.0589	26.8#	92	0.00
63 P	cis-1,3-Dichloropropene	0.5534	0.5897	-6.6	128	0.00
64 P	4-Methyl-2-pentanone	0.4251	0.4626	-8.8	135	0.00
65 s	SURR3,Toluene-d8	1.3256	1.3530	-2.1	124	0.00
66 P	Toluene	1.4187	1.5225	-7.3	133	0.00
67 P	trans-1,3-Dichloropropene	0.5155	0.5449	-5.7	127	0.00
68	Ethyl Methacrylate	0.5263	0.5742	-9.1	132	0.00
69 P	1,1,2-Trichloroethane	0.3223	0.3289	-2.0	135	0.00
70 s	SURR2,BFB	0.5129	0.5174	-0.9	125	0.00
71 I	d5-Chlorobenzene	1.0000	1.0000	0.0	125	0.00
72 P	Tetrachloroethene	0.2759	0.2941	-6.6	139	0.00
73 P	2-Hexanone	0.3681	0.3803	-3.3	131	0.00
74	1,3-Dichloropropane	0.6425	0.6903	-7.4	136	0.00
75 P	Dibromochloromethane	0.3353	0.3279	2.2	121	0.00
76	N-Butyl Acetate	0.6929	0.8038	-16.0	138	0.00
77 P	1,2-Dibromoethane	0.3562	0.3767	-5.8	133	0.00
78 P	Chlorobenzene	0.9796	1.0532	-7.5	134	0.00
79	3-CBTF	0.5223	0.5752	-10.1	143	0.00
80	4-CBTF	0.4773	0.5155	-8.0	142	0.00
81	1,1,1,2-Tetrachloroethane	0.3482	0.3502	-0.6	128	0.00
82 P	Ethylbenzene	0.5408	0.5695	-5.3	134	0.00
83 P	(m+p)Xylene	0.6546	0.7126	-8.9	136	0.00
84 P	o-Xylene	0.6554	0.6979	-6.5	133	0.00
85 P	Styrene	1.1033	1.1948	-8.3	131	0.00
86 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	129	0.00
87 P	Bromoform	0.4361	0.4015	7.9	120	0.00
88	2-CBTF	0.9684	1.0438	-7.8	140	0.00
89 P	Isopropylbenzene	3.2851	3.4788	-5.9	136	0.00
90	Cyclohexanone	0.2499	0.2237	10.5	119	0.00
91	trans-1,4-Dichloro-2-Butene	0.2603	0.2714	-4.3	137	0.00
92 P	1,1,2,2-Tetrachloroethane	0.9914	0.9861	0.5	134	0.00
93	Bromobenzene	0.8046	0.8285	-3.0	136	0.00
94	1,2,3-Trichloropropane	0.3221	0.3241	-0.6	132	0.00
95	n-Propylbenzene	3.8197	4.1846	-9.6	137	0.00
96	2-Chlorotoluene	2.3682	2.5059	-5.8	138	0.00
97	3-Chlorotoluene	2.4978	2.5617	-2.6	131	0.00
98	4-Chlorotoluene	2.7362	2.8851	-5.4	135	0.00
99	1,3,5-Trimethylbenzene	2.7476	2.9043	-5.7	134	0.00
100	tert-Butylbenzene	2.3716	2.5125	-5.9	135	0.00
101	1,2,4-Trimethylbenzene	2.7517	2.9302	-6.5	134	0.00



Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
 Data File : P15947.D  
 Acq On : 23 Feb 2018 10:25 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:42:11 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	3,4-DCBTF	0.7689	0.8896	-15.7	145	0.00
103	sec-Butylbenzene	3.4901	3.7966	-8.8	137	0.00
104	p-Isopropyltoluene	2.9371	3.1115	-5.9	134	0.00
105 P	1,3-Dclbenz	1.5293	1.6686	-9.1	140	0.00
106 P	1,4-Dclbenz	1.6050	1.6591	-3.4	138	0.00
107	2,4-DCBTF	0.7333	0.8189	-11.7	145	0.00
108	2,5-DCBTF	0.7842	0.8965	-14.3	147	0.00
109	n-Butylbenzene	2.7396	2.9513	-7.7	133	0.00
110 P	1,2-Dclbenz	1.5264	1.6202	-6.1	136	0.00
111 P	1,2-Dibromo-3-chloropropane	0.2566	0.2230	13.1	123	0.00
112	Trielution Dichlorotoluene	1.5014	1.5300	-1.9	128	0.00
113	1,3,5 Trichlorobenzene	1.1884	1.2606	-6.1	134	0.00
114	Coelution Dichlorotoluene	1.5924	1.6501	-3.6	126	0.00
115 P	1,2,4-Tcbenzene	1.1095	1.2018	-8.3	133	0.00
116	Hexachlorobt	0.5150	0.5213	-1.2	133	0.00
117	Naphthalen	3.0613	3.2959	-7.7	128	0.00
118	1,2,3-Tclbenzene	1.0777	1.1465	-6.4	131	0.00
119	2,4,5-Trichlorotolene	0.6534	0.5425	21.3	88	0.00
120	2,3,6-Trichlorotoluene	0.5941	0.5065	21.6	90	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoal2\Data\022318\  
 Data File : P15947.D  
 Acq On : 23 Feb 2018 10:25 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:42:11 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.383	168	348338	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.474	114	575126	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	520545	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	273988	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	171401	50.19	ppb	0.00	
Spiked Amount	50.000	Range 89	- 119	Recovery	=	100.38%	
48) surr1,1,2-dichloroetha...	5.767	65	235888	50.41	ppb	0.00	
Spiked Amount	50.000	Range 73	- 125	Recovery	=	100.82%	
65) SURR3,Toluene-d8	8.291	98	778146	51.03	ppb	0.00	
Spiked Amount	50.000	Range 87	- 121	Recovery	=	102.06%	
70) SURR2,BFB	10.864	95	297567	50.44	ppb	0.00	
Spiked Amount	50.000	Range 85	- 122	Recovery	=	100.88%	
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	235433	55.56	ppb		99
3) Chloromethane	1.311	50	292790	55.28	ppb		100
4) Vinyl Chloride	1.384	62	281656m	54.59	ppb		
5) Bromomethane	1.609	94	176890	46.72	ppb		93
6) Chloroethane	1.689	64	165257	51.30	ppb		98
7) Freon 21	1.835	67	377367m	56.66	ppb		
8) Trichlorofluoromethane	1.884	101	264826	53.27	ppb		100
9) Diethyl Ether	2.115	59	188683	54.53	ppb		99
10) Freon 123a	2.122	67	232327	55.23	ppb		98
11) Freon 123	2.170	83	272079	55.89	ppb		100
12) Acrolein	2.219	56	231757	225.05	ppb		99
13) 1,1-Dicethene	2.305	96	177192	49.52	ppb		96
14) Freon 113	2.311	101	180699	53.44	ppb		100
15) Acetone	2.347	43	98778	46.51	ppb		96
16) 2-Propanol	2.481	45	431008	1057.63	ppb		98
17) Iodomethane	2.439	142	215329	49.56	ppb		99
18) Carbon Disulfide	2.500	76	513895	49.24	ppb		100
19) Acetonitrile	2.597	40	94663	261.04	ppb		95
20) Allyl Chloride	2.634	76	106232	55.74	ppb		94
21) Methyl Acetate	2.658	43	224703	59.24	ppb		97
22) Methylene Chloride	2.750	84	203606	53.95	ppb		97
23) TBA	2.878	59	703317	1001.22	ppb		96
24) Acrylonitrile	3.006	53	546477	268.03	ppb		96
25) Methyl-t-Butyl Ether	3.054	73	664998	51.85	ppb		98
26) trans-1,2-Dichloroethene	3.042	96	192988	52.80	ppb		99
28) 1,1-Dicethane	3.536	63	359292	53.57	ppb		99
29) Vinyl Acetate	3.634	86	52672	49.18	ppb	#	81
30) DIPE	3.664	45	670997	52.54	ppb		96
31) 2-Chloro-1,3-Butadiene	3.664	53	325543	50.19	ppb		98
32) ETBE	4.194	59	664339	51.58	ppb		99
33) 2,2-Dichloropropane	4.365	77	300981	50.47	ppb		97
34) cis-1,2-Dichloroethene	4.377	96	220668	53.04	ppb		100
35) 2-Butanone	4.414	43	139961	52.45	ppb		99
36) Propionitrile	4.493	54	220295	254.24	ppb		99
37) Bromochloromethane	4.767	130	124207	51.59	ppb		99
38) Methacrylonitrile	4.767	67	108901	52.98	ppb		95
39) Tetrahydrofuran	4.859	42	86749	55.72	ppb		98
40) Chloroform	4.950	83	335272	49.66	ppb		97
41) 1,1,1-Trichloroethane	5.243	97	280234	49.04	ppb		98

Data Path : I:\ACQUDATA\msvoal2\Data\022318\  
 Data File : P15947.D  
 Acq On : 23 Feb 2018 10:25 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:42:11 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.090	73	629280	50.05	ppb	99
44) Cyclohexane	5.334	41	206326	54.91	ppb	100
46) Carbontetrachloride	5.523	117	219612	50.87	ppb	94
47) 1,1-Dichloropropene	5.536	75	273766	54.04	ppb	99
49) Benzene	5.853	78	822823	54.77	ppb	99
50) 1,2-Dichloroethane	5.889	62	290196	52.58	ppb	97
51) Iso-Butyl Alcohol	5.859	43	312960	1027.02	ppb	97
52) n-Heptane	6.340	43	307264	59.59	ppb	99
53) 1-Butanol	6.828	56	526290	2610.22	ppb	99
54) Trichloroethene	6.804	130	204451	53.06	ppb	97
55) Methylcyclohexane	7.041	55	298588	59.58	ppb	99
56) 1,2-Diclpropane	7.078	63	213890	53.37	ppb	98
57) Dibromomethane	7.224	93	126044	52.68	ppb	94
58) 1,4-Dioxane	7.279	88	86161	1089.15	ppb	96
59) Methyl Methacrylate	7.310	69	189982	51.32	ppb	98
60) Bromodichloromethane	7.450	83	242040	47.98	ppb	98
61) 2-Nitropropane	7.730	41	133356	85.60	ppb	92
62) 2-Chloroethylvinyl Ether	7.858	63	33857	36.55	ppb	98
63) cis-1,3-Dichloropropene	7.992	75	339167	53.29	ppb	98
64) 4-Methyl-2-pentanone	8.200	43	266073	54.42	ppb	98
66) Toluene	8.364	91	875608	53.66	ppb	99
67) trans-1,3-Dichloropropene	8.633	75	313379	52.85	ppb	100
68) Ethyl Methacrylate	8.779	69	330258	54.56	ppb	99
69) 1,1,2-Trichloroethane	8.822	97	189165	51.03	ppb	98
72) Tetrachloroethene	8.962	164	153075	53.29	ppb	96
73) 2-Hexanone	9.114	43	197982	51.66	ppb	92
74) 1,3-Dichloropropane	8.992	76	359329	53.72	ppb	96
75) Dibromochloromethane	9.218	129	170704	48.90	ppb	98
76) N-Butyl Acetate	9.273	43	418406	58.00	ppb	99
77) 1,2-Dibromoethane	9.315	107	196110	52.88	ppb	98
78) Chlorobenzene	9.809	112	548254	53.76	ppb	98
79) 3-CBTF	9.834	180	299408	55.06	ppb	93
80) 4-CBTF	9.888	180	268352	54.00	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.901	131	182278	50.28	ppb	96
82) Ethylbenzene	9.931	106	296466	52.65	ppb	99
83) (m+p)Xylene	10.047	106	741883	108.86	ppb	94
84) o-Xylene	10.407	106	363297	53.24	ppb	100
85) Styrene	10.419	104	621938	54.15	ppb	98
87) Bromoform	10.565	173	110002	46.03	ppb	96
88) 2-CBTF	10.650	180	285992	53.90	ppb	92
89) Isopropylbenzene	10.742	105	953142	52.95	ppb	100
90) Cyclohexanone	10.797	55	1226058	895.31	ppb	100
91) trans-1,4-Dichloro-2-B...	11.047	53	74362	52.13	ppb	93
92) 1,1,2,2-Tetrachloroethane	10.998	83	270173	49.73	ppb	97
93) Bromobenzene	10.986	156	226996	51.49	ppb	91
94) 1,2,3-Trichloropropane	11.028	110	88791	50.31	ppb	95
95) n-Propylbenzene	11.095	91	1146528	54.78	ppb	98
96) 2-Chlorotoluene	11.156	91	686577	52.91	ppb	98
97) 3-Chlorotoluene	11.211	91	701864	51.28	ppb	98
98) 4-Chlorotoluene	11.248	91	790482	52.72	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	795746	52.85	ppb	98
100) tert-Butylbenzene	11.522	119	688390	52.97	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	802832	53.24	ppb	97
102) 3,4-DCBTF	11.620	214	243730	57.84	ppb	98
103) sec-Butylbenzene	11.705	105	1040226	54.39	ppb	99
104) p-Isopropyltoluene	11.827	119	852519	52.97	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
 Data File : P15947.D  
 Acq On : 23 Feb 2018 10:25 am  
 Operator : K.Ruest  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Feb 23 10:42:11 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	457163	54.55	ppb	99
106) 1,4-Dclbenz	11.858	146	454581	51.69	ppb	99
107) 2,4-DCBTF	11.912	214	224372	55.84	ppb	98
108) 2,5-DCBTF	11.955	214	245642	57.16	ppb	94
109) n-Butylbenzene	12.156	91	808628	53.86	ppb	98
110) 1,2-Dclbenz	12.162	146	443907	53.07	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.784	157	61087	43.44	ppb	93
112) Trielution Dichlorotol...	12.906	125	1257629	152.86	ppb	96
113) 1,3,5 Trichlorobenzene	12.955	180	345394	53.04	ppb	99
114) Coelution Dichlorotoluene	13.229	125	904199	103.62	ppb	99
115) 1,2,4-Tcbenzene	13.443	180	329275	54.16	ppb	96
116) Hexachlorobt	13.577	225	142833	50.61	ppb	98
117) Naphthalen	13.632	128	903048	53.83	ppb	97
118) 1,2,3-Tclbenzene	13.821	180	314122	53.19	ppb	98
119) 2,4,5-Trichlorotolene	14.406	159	148632	39.33	ppb	97
120) 2,3,6-Trichlorotoluene	14.491	159	138771	39.19	ppb	98

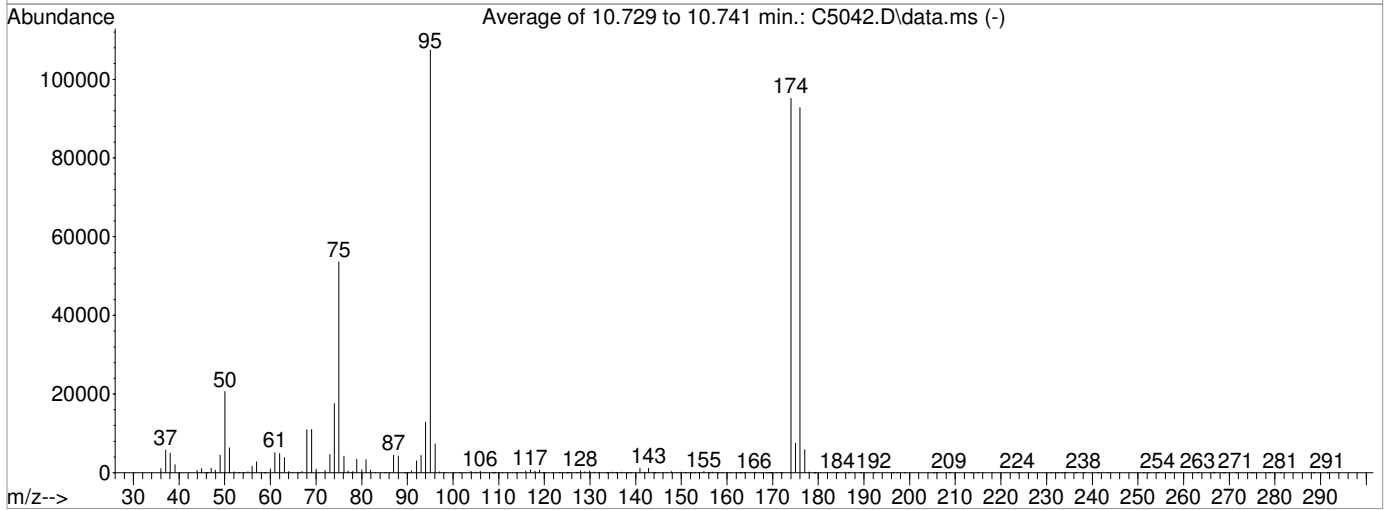
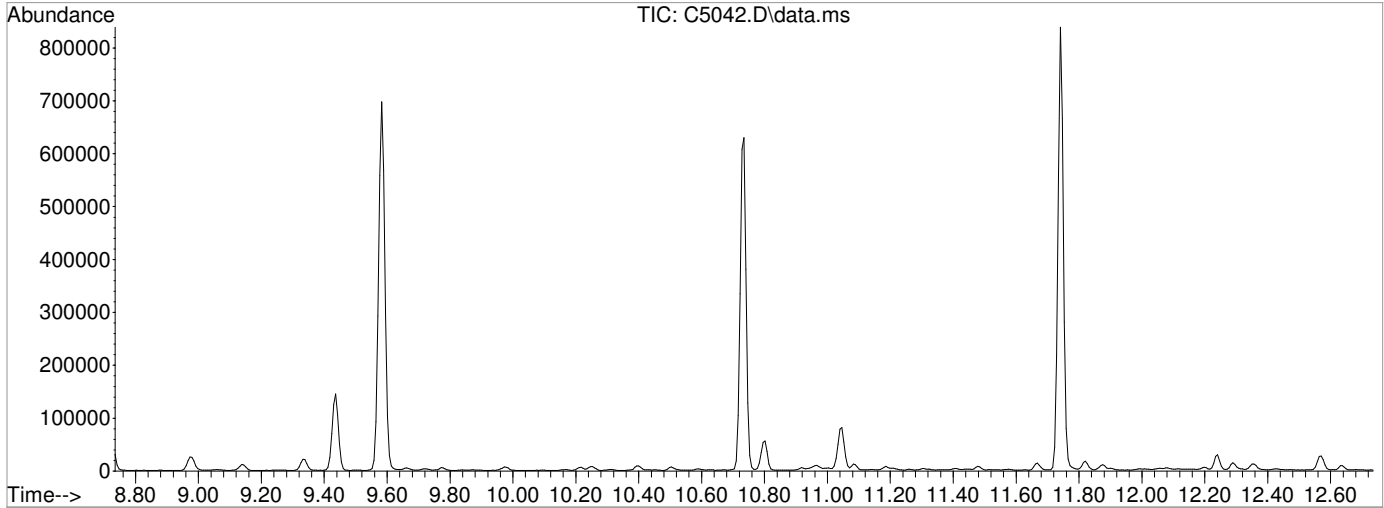
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\022218\  
Data File : C5042.D  
Acq On : 22 Feb 2018 11:46 am  
Operator : K.Ruest  
Sample : TUNE  
Misc :  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Title : MS#14 - 8260 SOILS 10ml PURGE  
Last Update : Thu Jan 18 16:43:08 2018



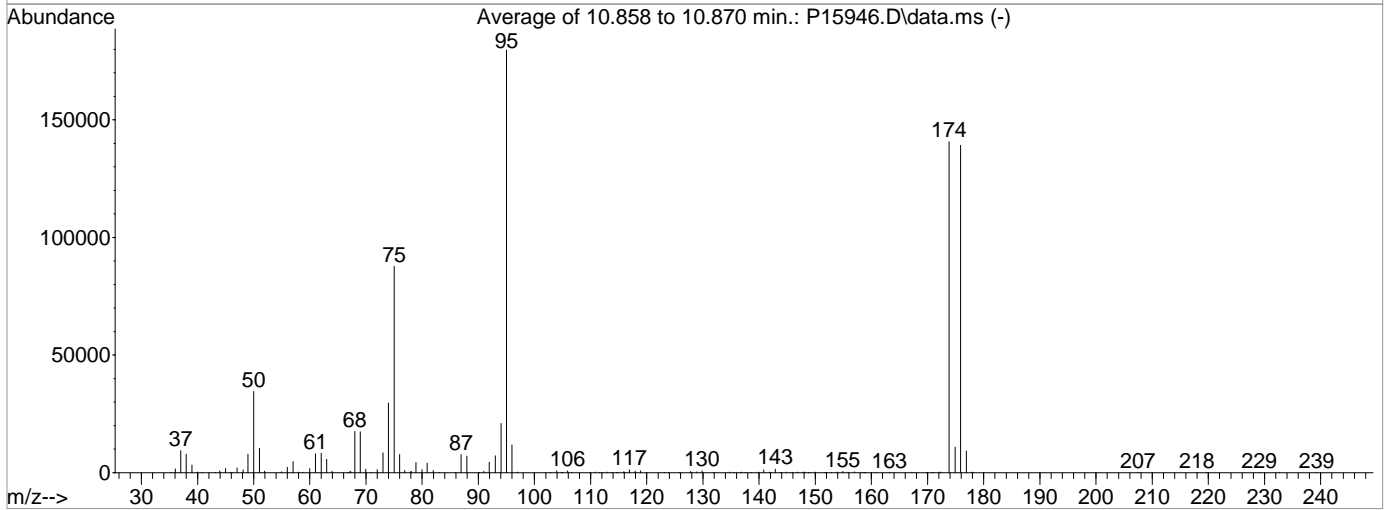
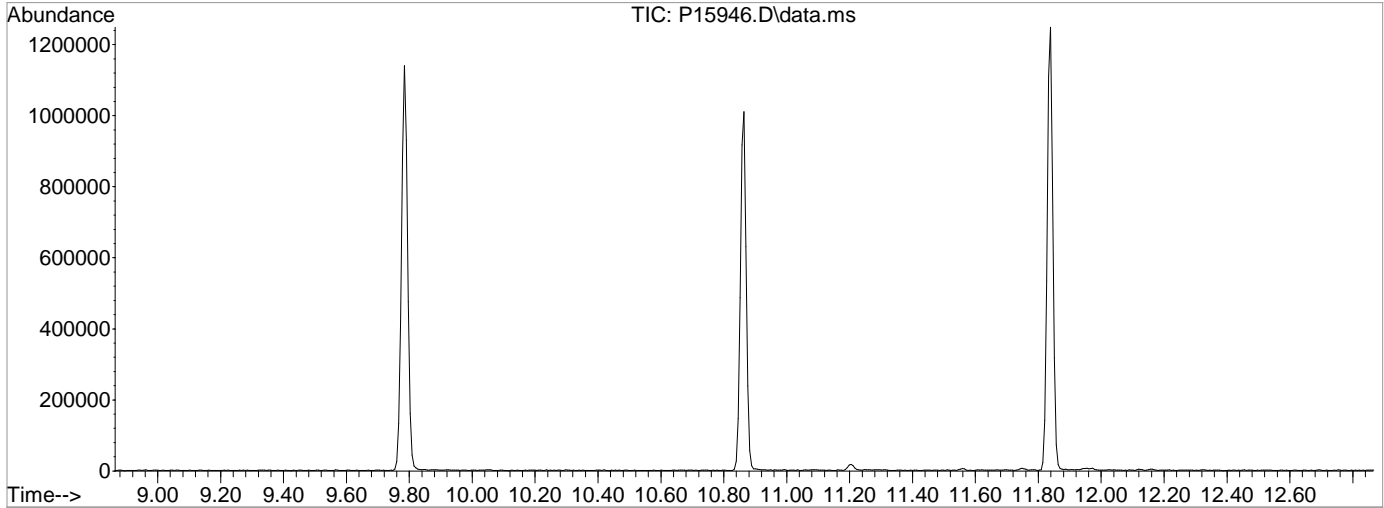
AutoFind: Scans 1598, 1599, 1600; Background Corrected with Scan 1592

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	20625	PASS
75	95	30	60	49.9	53642	PASS
95	95	100	100	100.0	107445	PASS
96	95	5	9	6.8	7355	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.6	95184	PASS
175	174	5	9	7.9	7473	PASS
176	174	95	101	97.5	92781	PASS
177	176	5	9	6.3	5886	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\022318\  
Data File : P15946.D  
Acq On : 23 Feb 2018 9:55 am  
Operator : K.Ruest  
Sample : TUNE  
Misc :  
ALS Vial : 3 Sample Multiplier: 1  
Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Title : MS#12 - 8260B WATERS 10mL Purge  
Last Update : Tue Jan 02 13:02:22 2018



AutoFind: Scans 1601, 1602, 1603; Background Corrected with Scan 1594

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.2	34472	PASS
75	95	30	60	48.8	87744	PASS
95	95	100	100	100.0	179781	PASS
96	95	5	9	6.6	11844	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	78.3	140722	PASS
175	174	5	9	7.7	10785	PASS
176	174	95	101	98.9	139144	PASS
177	176	5	9	6.6	9229	PASS



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4464.D  
 Acq On : 18 Jan 2018 4:23 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 18 16:41:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:55:26 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	240185	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	362588	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	321129	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	168655	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	40452	17.83	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	35.66%#		
47) SURR1,1,2-dichloroetha...	5.120	65	49407	18.15	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	36.30%#		
64) SURR3,Toluene-d8	7.949	98	158998	18.41	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	36.82%#		
69) SURR2,BFB	10.729	95	65682	18.71	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	37.42%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	58411	18.81	ug/L	99
3) Chloromethane	1.151	50	66909	17.62	ug/L	100
4) Vinyl Chloride	1.212	62	55018	19.16	ug/L	97
5) Bromomethane	1.414	94	40044	22.52	ug/L	98
6) Chloroethane	1.481	64	33115	20.77	ug/L	99
7) Freon 21	1.603	67	81671	19.12	ug/L	100
8) Trichlorofluoromethane	1.645	101	57992	17.68	ug/L	99
9) Diethyl Ether	1.846	59	42642	20.23	ug/L	97
10) Freon 123a	1.846	67	50111	18.59	ug/L	100
11) Freon 123	1.889	83	58803	19.02	ug/L	99
12) Acrolein	1.932	56	48802	92.43	ug/L	98
13) 1,1-Dicethene	2.011	96	38688	18.19	ug/L	98
14) Freon 113	2.017	101	35301	16.88	ug/L	99
15) Acetone	2.042	43	20927	18.66	ug/L	98
16) 2-Propanol	2.157	45	88030	349.19	ug/L	99
17) Iodomethane	2.121	142	29839	16.68	ug/L	98
18) Carbon Disulfide	2.176	76	141057	19.51	ug/L	99
19) Acetonitrile	2.255	40	17393	107.56	ug/L	96
20) Allyl Chloride	2.292	76	20223	19.67	ug/L	95
21) Methyl Acetate	2.310	43	37043	17.62	ug/L	99
22) Methylene Chloride	2.389	84	48189	19.06	ug/L	98
23) TBA	2.505	59	168727	375.50	ug/L	99
24) Acrylonitrile	2.602	53	97021	97.59	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	154347	19.75	ug/L	97
26) trans-1,2-Dichloroethene	2.645	96	45223	18.68	ug/L	96
27) 1,1-Dicethane	3.066	63	83395	19.53	ug/L	99
28) Vinyl Acetate	3.145	86	10953	18.04	ug/L	97
29) DIPE	3.182	45	172787	21.02	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	75120	19.61	ug/L	100
31) ETBE	3.639	59	169673	20.76	ug/L	99
32) 2,2-Dichloropropane	3.779	77	70472	18.39	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	53765	19.36	ug/L	96
34) 2-Butanone	3.828	43	26767	17.66	ug/L	99
35) Propionitrile	3.889	54	38431	92.57	ug/L	99
36) Bromochloromethane	4.120	130	34382	20.64	ug/L	93
37) Methacrylonitrile	4.127	67	22228	19.44	ug/L	88
38) Tetrahydrofuran	4.212	42	17634	18.73	ug/L	96
39) Chloroform	4.279	83	84687	19.54	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	68852	18.41	ug/L	99



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4464.D  
 Acq On : 18 Jan 2018 4:23 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 16:41:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:55:26 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	161800	20.48	ug/L	98
43) Cyclohexane	4.645	41	45208	19.07	ug/L	96
45) Carbontetrachloride	4.846	121	17961	17.54	ug/L	93
46) 1,1-Dichloropropene	4.852	75	59980	18.24	ug/L	98
48) Benzene	5.218	78	182772	19.15	ug/L	100
49) 1,2-Dichloroethane	5.260	62	70459	19.50	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	65497	363.46	ug/L	97
51) n-Heptane	5.803	43	49122	15.94	ug/L	95
52) 1-Butanol	6.370	56	109304	985.38	ug/L	100
53) Trichloroethene	6.303	130	49428	18.69	ug/L	95
54) Methylcyclohexane	6.571	55	62290	18.47	ug/L	97
55) 1,2-Diclpropane	6.614	63	51309	19.70	ug/L	92
56) Dibromomethane	6.766	93	31967	20.00	ug/L	99
57) 1,4-Dioxane	6.852	88	16179	382.76	ug/L	93
58) Methyl Methacrylate	6.894	69	40124	19.36	ug/L	93
59) Bromodichloromethane	7.028	83	65660	19.50	ug/L	99
60) 2-Nitropropane	7.339	41	27256	35.00	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	18456	19.71	ug/L	91
62) cis-1,3-Dichloropropene	7.632	75	84356	19.70	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	54551	18.17	ug/L	98
65) Toluene	8.028	91	202467	19.51	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	78416	19.85	ug/L	95
67) Ethyl Methacrylate	8.510	69	72362	19.70	ug/L	96
68) 1,1,2-Trichloroethane	8.534	97	45125	19.37	ug/L	96
71) Tetrachloroethene	8.674	164	37769	17.85	ug/L	96
72) 2-Hexanone	8.869	43	40233	18.53	ug/L	99
73) 1,3-Dichloropropane	8.717	76	81120	20.15	ug/L	99
74) Dibromochloromethane	8.967	129	51164	19.52	ug/L	97
75) N-Butyl Acetate	9.058	43	90785	18.55	ug/L	99
76) 1,2-Dibromoethane	9.058	107	45932	19.41	ug/L	99
77) Chlorobenzene	9.613	112	140154	20.02	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	51591	20.35	ug/L	96
79) Ethylbenzene	9.753	106	69894	19.08	ug/L	96
80) (m+p)Xylene	9.875	106	176120	38.35	ug/L	99
81) o-Xylene	10.253	106	90391	19.89	ug/L	99
82) Styrene	10.266	104	157745	20.02	ug/L	98
83) Bromoform	10.418	173	34006	19.55	ug/L	100
84) Isopropylbenzene	10.607	105	216410	18.42	ug/L	99
85) Cyclohexanone	10.662	55	186695	347.71	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.936	53	16907	19.96	ug/L	90
88) 1,1,2,2-Tetrachloroethane	10.887	83	65714	20.41	ug/L	99
89) Bromobenzene	10.851	156	62514	20.84	ug/L	99
90) 1,2,3-Trichloropropane	10.906	110	20589	19.96	ug/L	99
91) n-Propylbenzene	10.985	91	249563	19.07	ug/L	100
92) 2-Chlorotoluene	11.040	91	160727	20.34	ug/L	99
93) 4-Chlorotoluene	11.137	91	192407	20.35	ug/L	98
94) 1,3,5-Trimethylbenzene	11.150	105	187933	19.62	ug/L	100
95) tert-Butylbenzene	11.424	119	155773	18.55	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	194950	20.05	ug/L	99
97) sec-Butylbenzene	11.613	105	221765	18.01	ug/L	100
98) p-Isopropyltoluene	11.741	119	195903	18.53	ug/L	100
99) 1,3-Dclbenz	11.686	146	119859	20.73	ug/L	97
100) 1,4-Dclbenz	11.765	146	122607	20.65	ug/L	99
101) n-Butylbenzene	12.082	91	175202	18.05	ug/L	99
102) 1,2-Dclbenz	12.070	146	116614	20.65	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	15180	20.43	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4464.D  
 Acq On : 18 Jan 2018 4:23 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 18 16:41:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:55:26 2018  
 Response via : Initial Calibration

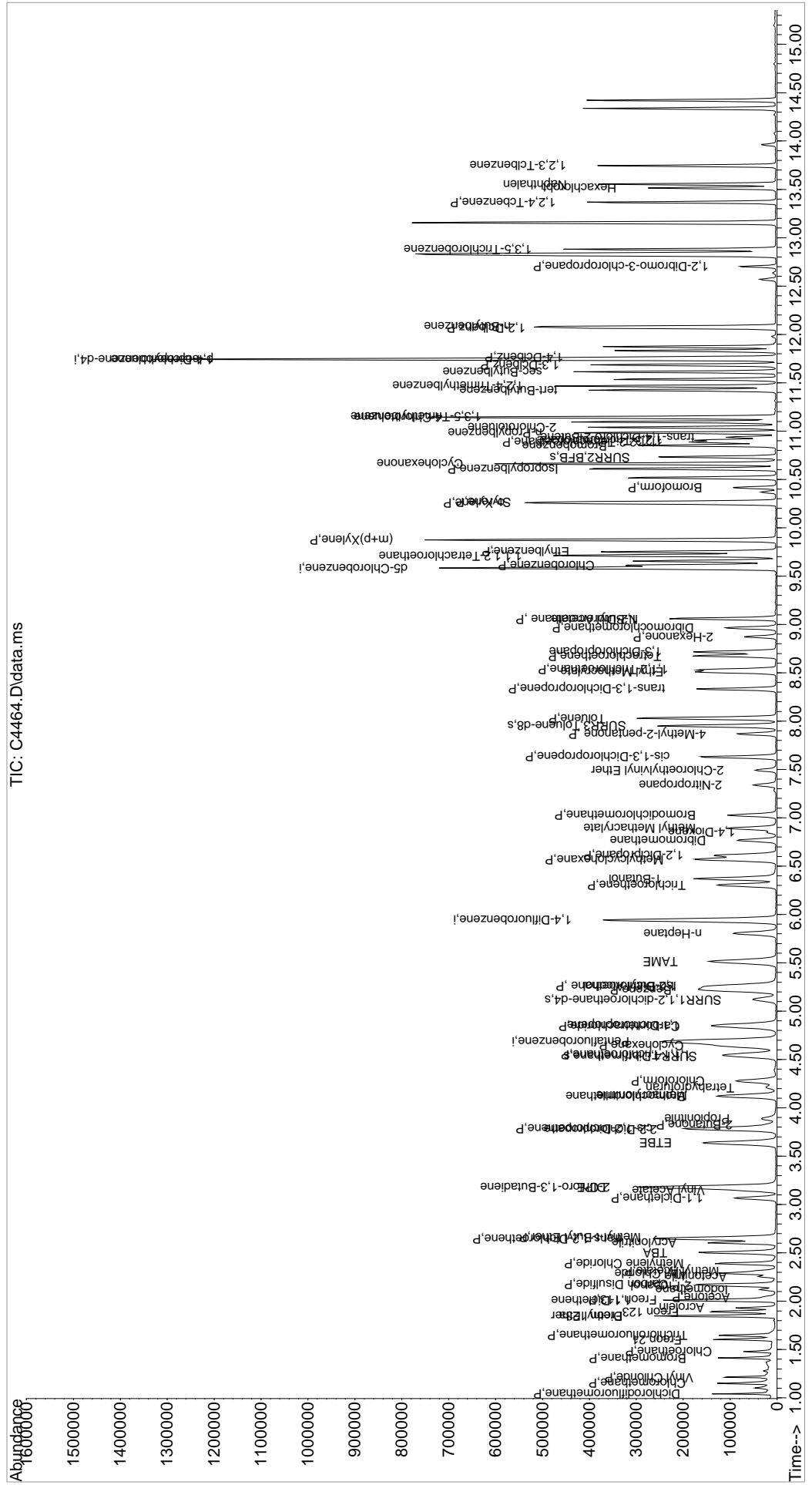
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	100170	21.83	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	90661	20.88	ug/L	99
106) Hexachlorobt	13.515	225	39157	16.75	ug/L	98
107) Naphthalen	13.552	128	222373	21.06	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	85927	21.00	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
 Data File : C4464.D  
 Acq On : 18 Jan 2018 4:23 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

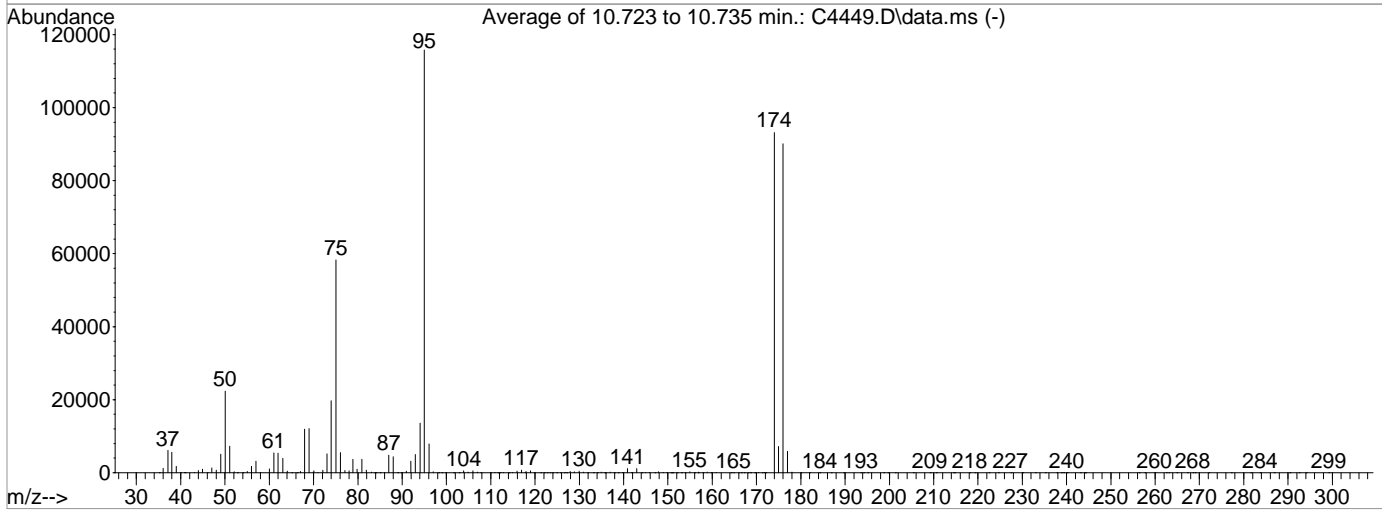
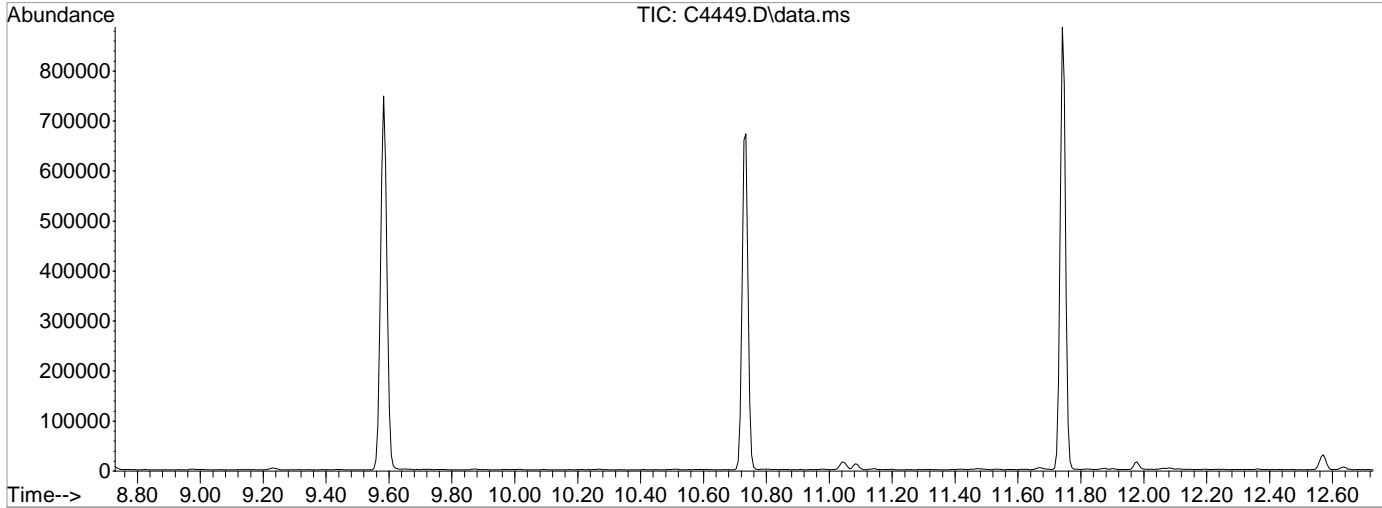
Quant Time: Jan 18 16:41:52 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:55:26 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4449.D  
Acq On : 18 Jan 2018 11:40 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 1 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Title : MS#14 - 8260 SOILS 10ml PURGE  
Last Update : Mon Dec 19 08:34:39 2016



AutoFind: Scans 1597, 1598, 1599; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	22328	PASS
75	95	30	60	50.3	58261	PASS
95	95	100	100	100.0	115765	PASS
96	95	5	9	6.8	7860	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	80.5	93171	PASS
175	174	5	9	7.7	7184	PASS
176	174	95	101	96.7	90107	PASS
177	176	5	9	6.6	5907	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4450.D  
 Acq On : 18 Jan 2018 12:03 pm  
 Operator : F. NAEGLER  
 Sample : ICAL BLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 19 08:51:29 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	252258	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	376231	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	326253	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	175584	50.00	ug/L	0.00
System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	117409	50.11	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	100.22%	
47) SURR1,1,2-dichloroetha...	5.120	65	144588	51.52	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	103.04%	
64) SURR3,Toluene-d8	7.949	98	460009	51.34	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	102.68%	
69) SURR2,BFB	10.735	95	182375	50.46	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	100.92%	
Target Compounds						
3) Chloromethane	1.151	50	1975	0.51	ug/L	Qvalue 92
15) Acetone	2.048	43	2157	1.89	ug/L	84
16) 2-Propanol	2.163	45	584	2.24	ug/L #	34
18) Carbon Disulfide	2.176	76	1871	0.25	ug/L	98
22) Methylene Chloride	2.389	84	541	0.21	ug/L #	73
23) TBA	2.511	59	1553	3.34	ug/L	91
34) 2-Butanone	3.834	43	510	0.33	ug/L	74

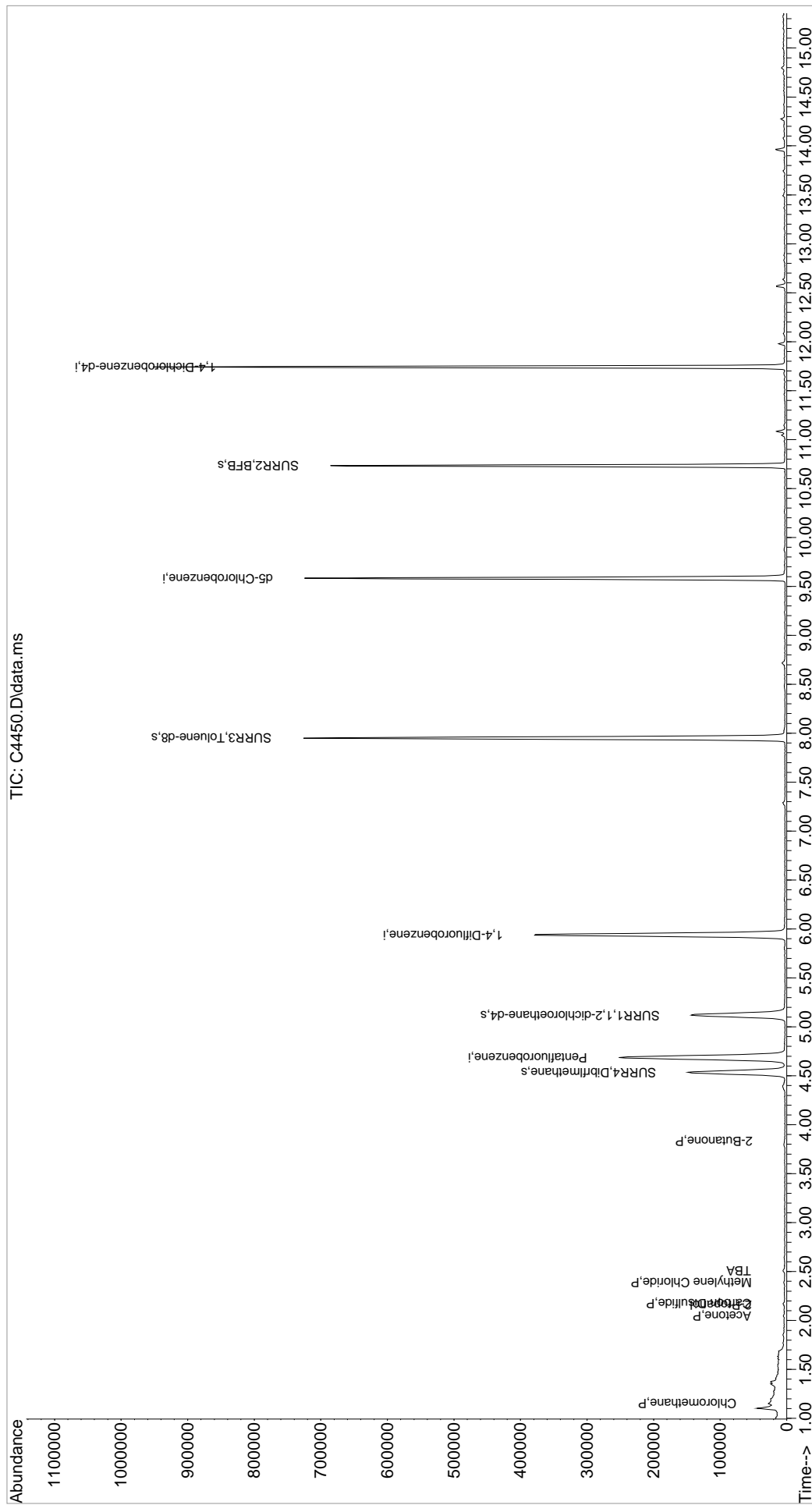
(#) = qualifier out of range (m) = manual integration (+) = signals summed

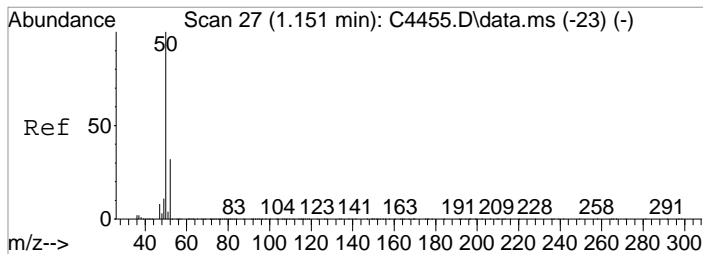
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4450.D  
Acq On : 18 Jan 2018 12:03 pm  
Operator : F. NAEGLER  
Sample : ICAL BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

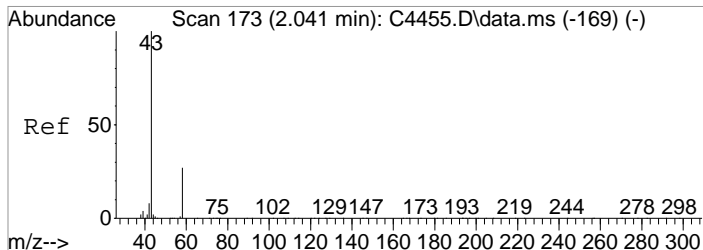
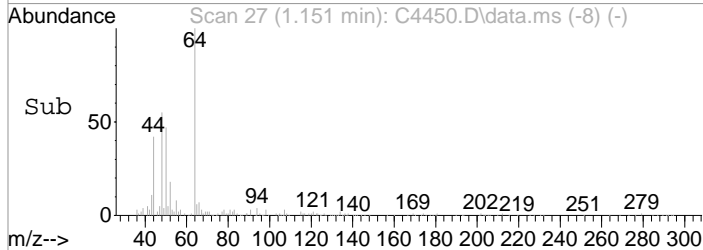
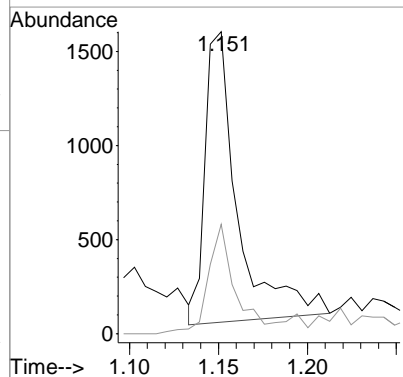
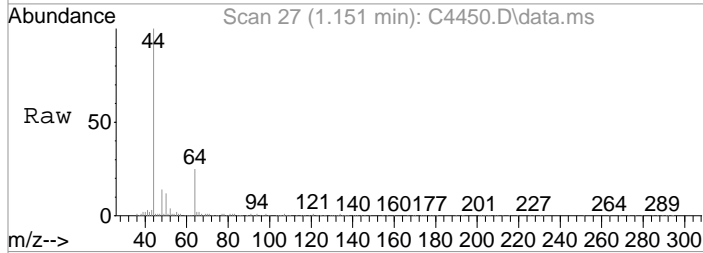
Quant Time: Jan 19 08:51:29 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 16:43:08 2018  
Response via : Initial Calibration





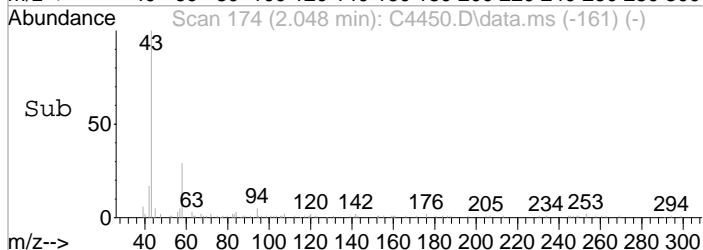
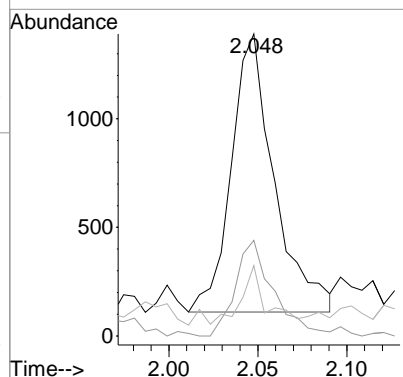
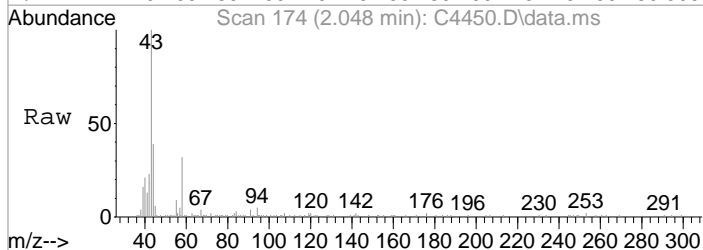
#3  
 Chloromethane  
 Concen: 0.51 ug/L  
 RT: 1.151 min Scan# 27  
 Delta R.T. 0.000 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

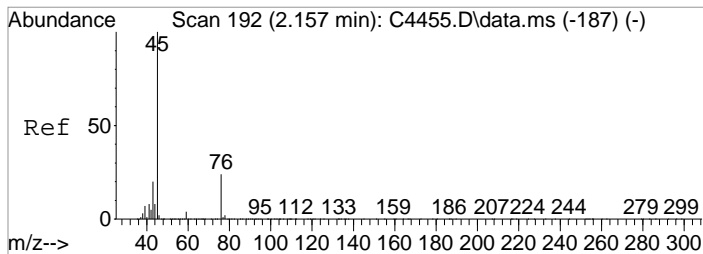
Tgt Ion	Resp	Lower	Upper
50	100		
52	36.3	12.0	52.0



#15  
 Acetone  
 Concen: 1.89 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.007 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

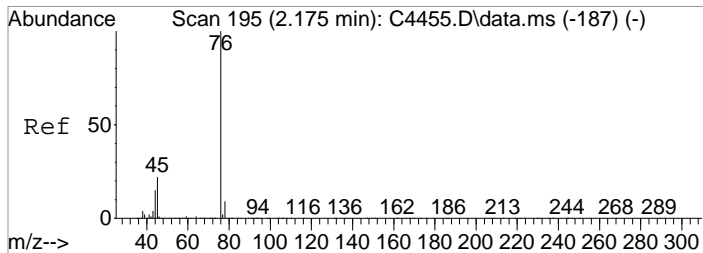
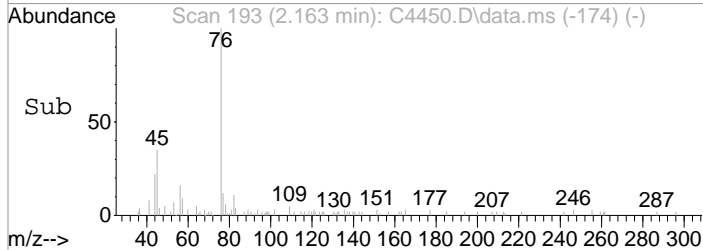
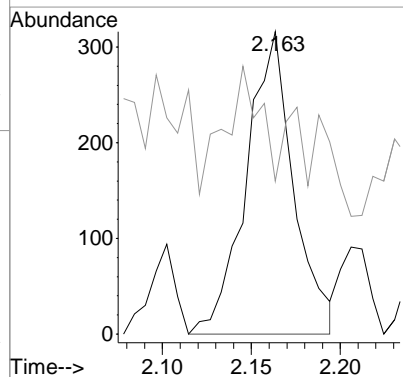
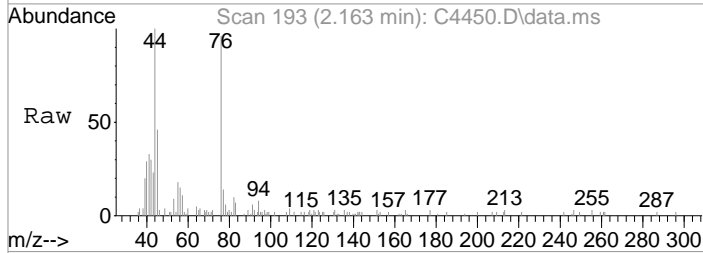
Tgt Ion	Resp	Lower	Upper
43	100		
58	31.6	7.1	47.1
42	23.2	0.0	28.6





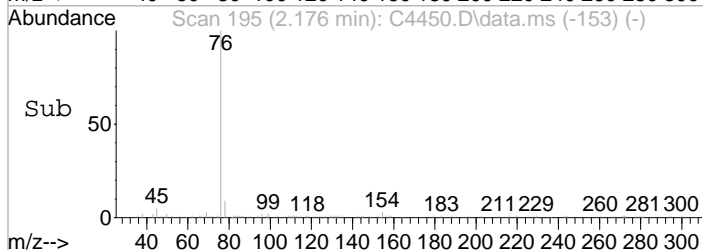
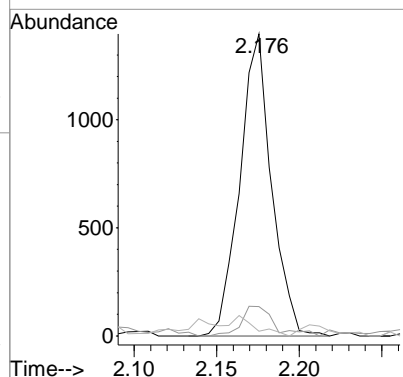
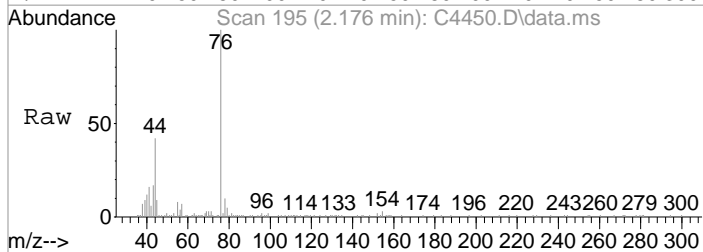
#16  
 2-Propanol  
 Concen: 2.24 ug/L  
 RT: 2.163 min Scan# 193  
 Delta R.T. 0.006 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

Tgt Ion	Resp	Lower	Upper
45	100		
43	50.6	0.1	40.1#

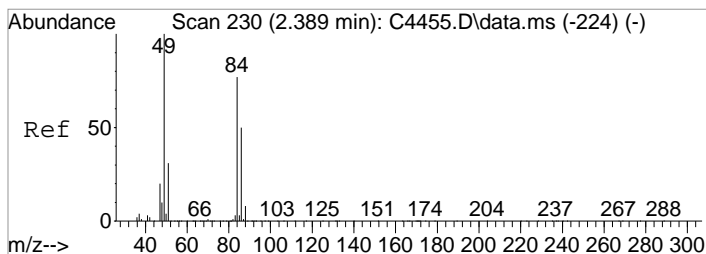


#18  
 Carbon Disulfide  
 Concen: 0.25 ug/L  
 RT: 2.176 min Scan# 195  
 Delta R.T. 0.000 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

Tgt Ion	Resp	Lower	Upper
76	100		
78	9.7	0.0	28.9
77	1.6	0.0	22.4

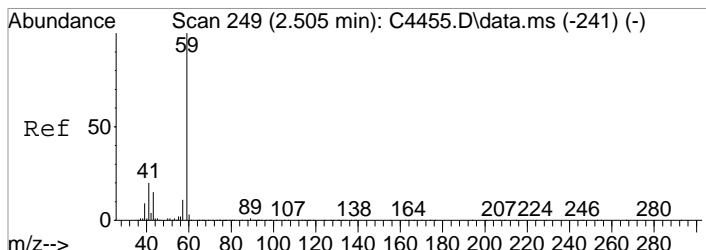
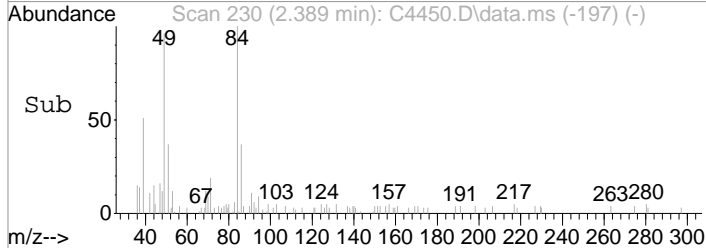
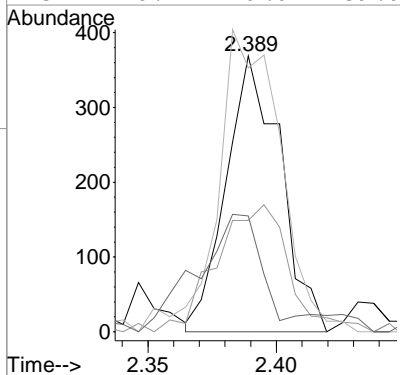
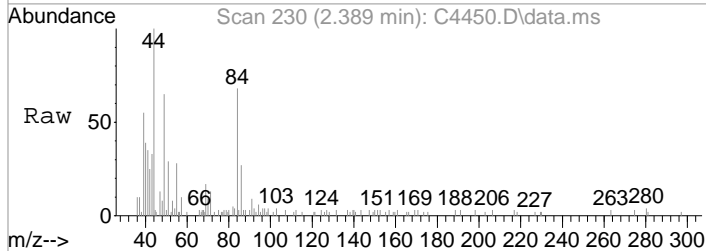






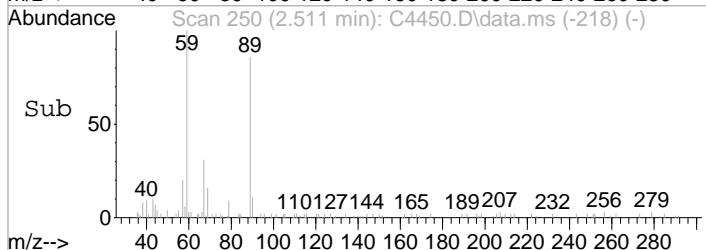
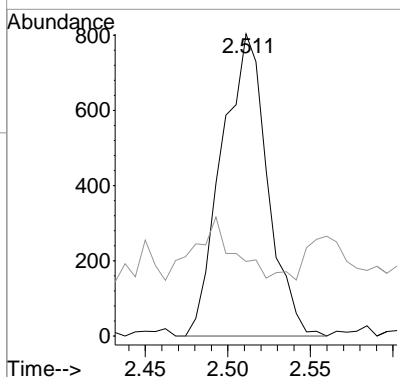
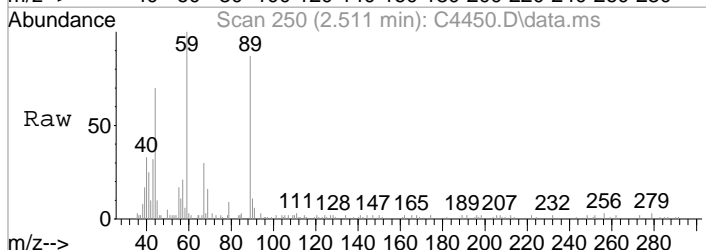
#22  
 Methylene Chloride  
 Concen: 0.21 ug/L  
 RT: 2.389 min Scan# 230  
 Delta R.T. 0.000 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

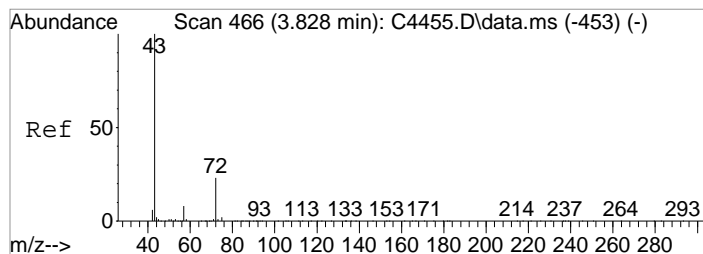
Tgt Ion	Resp	Lower	Upper
84	100		
86	38.8	43.9	83.9#
49	91.9	109.1	149.1#
51	40.4	19.9	59.9



#23  
 TBA  
 Concen: 3.34 ug/L  
 RT: 2.511 min Scan# 250  
 Delta R.T. 0.006 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

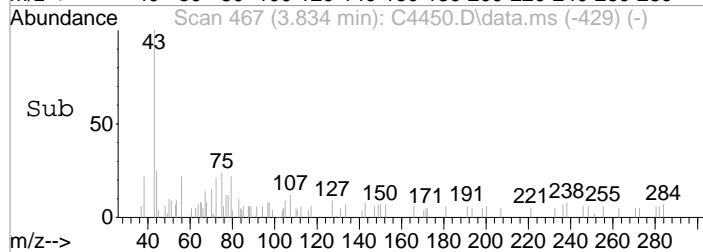
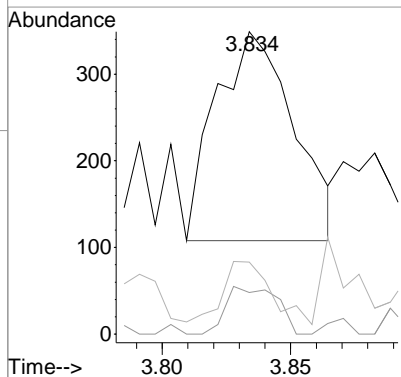
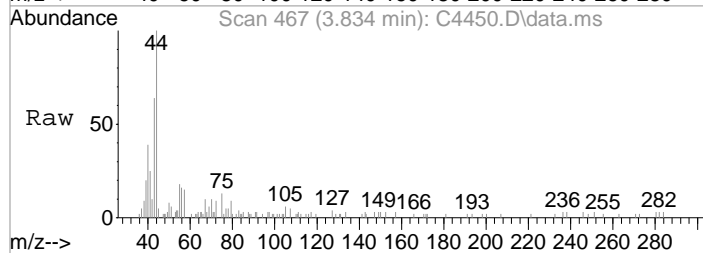
Tgt Ion	Resp	Lower	Upper
59	100		
41	24.7	0.3	40.3





#34  
 2-Butanone  
 Concen: 0.33 ug/L  
 RT: 3.834 min Scan# 467  
 Delta R.T. 0.007 min  
 Lab File: C4450.D  
 Acq: 18 Jan 2018 12:03 pm

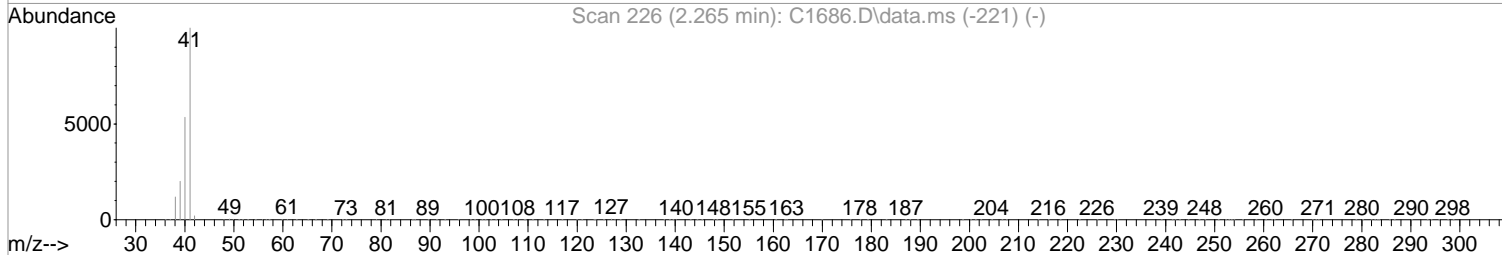
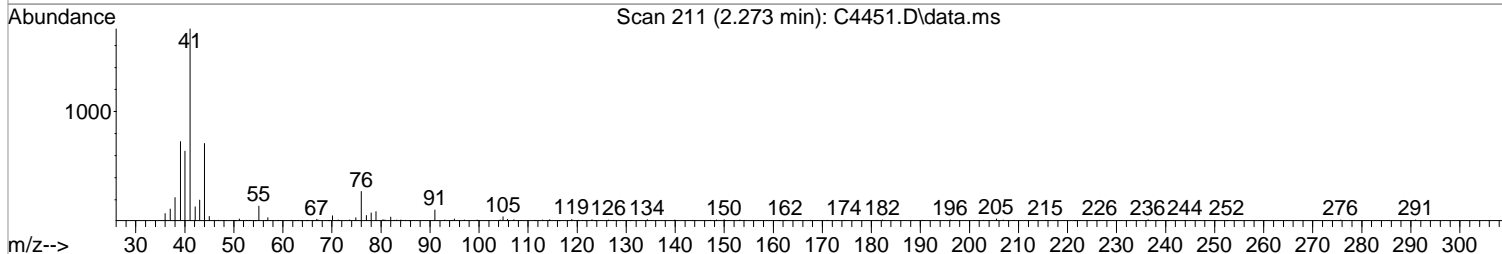
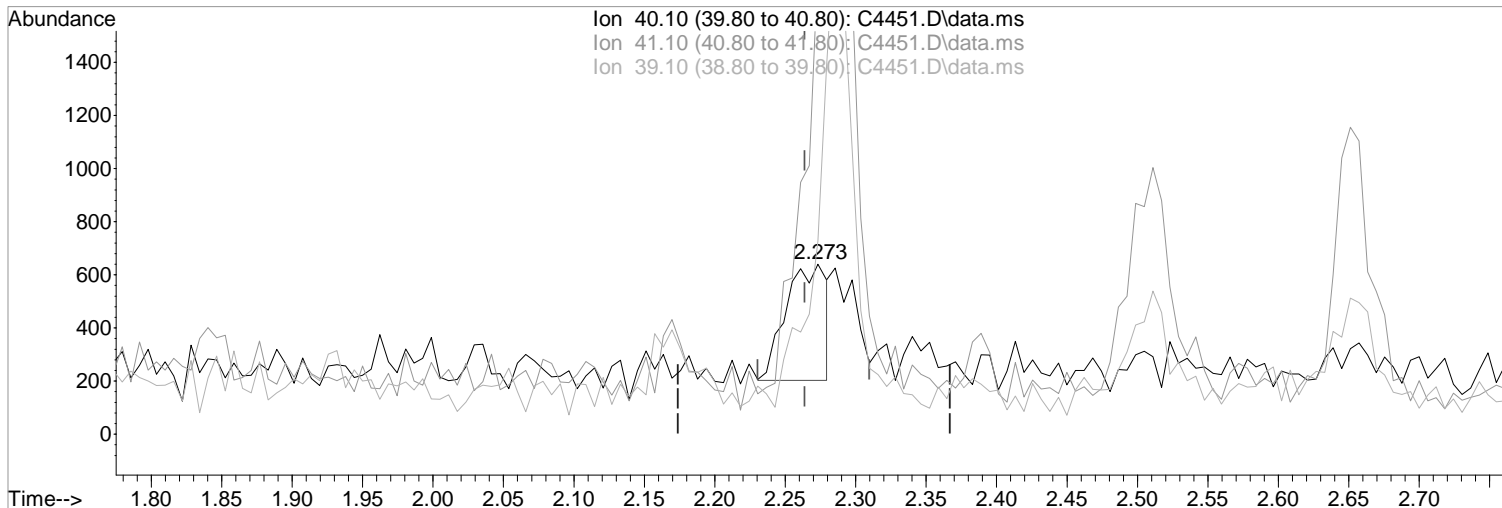
Tgt Ion	43	72	57	Resp	Lower	Upper
43	100			510		
72		13.8			3.3	43.3
57			23.8		0.0	28.0



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(19) Acetonitrile  
2.273min (+0.009) 5.52 ug/L m  
response 875

Manual Integration:  
After  
Poor integration.

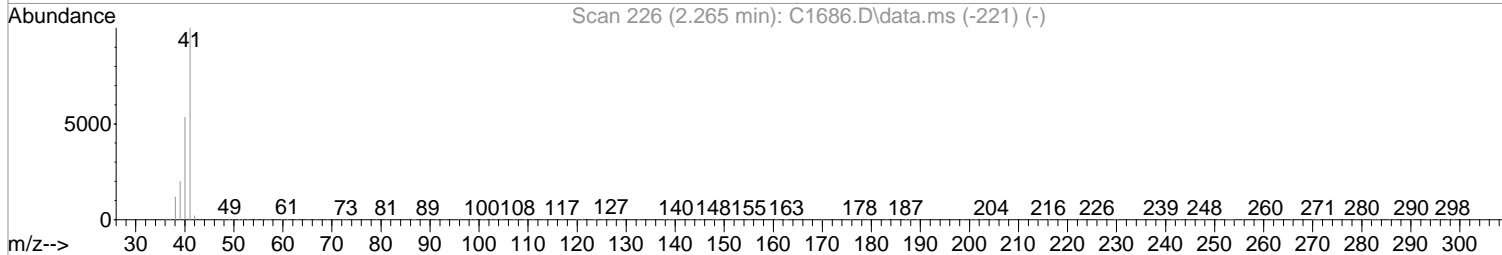
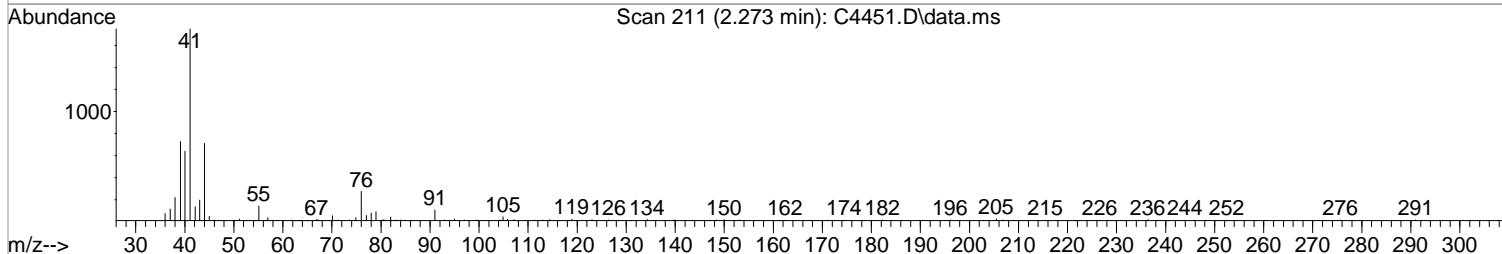
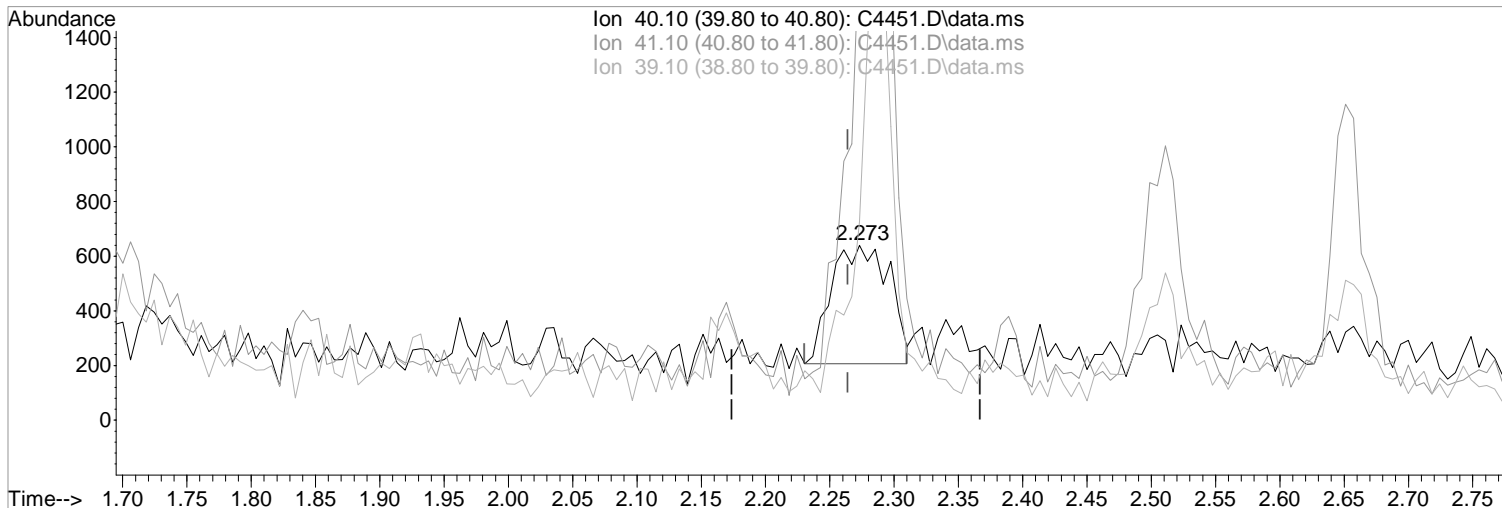
Ion	Exp%	Act%
40.10	100	100
41.10	186.50	273.44#
39.10	41.10	113.59#
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

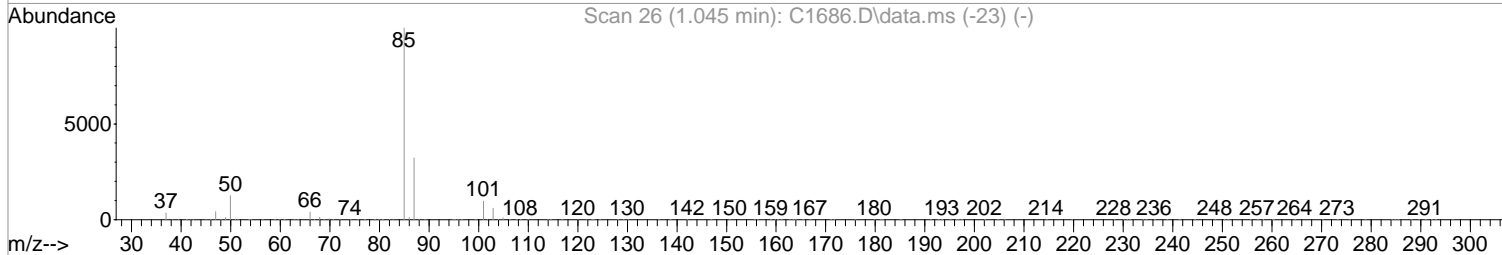
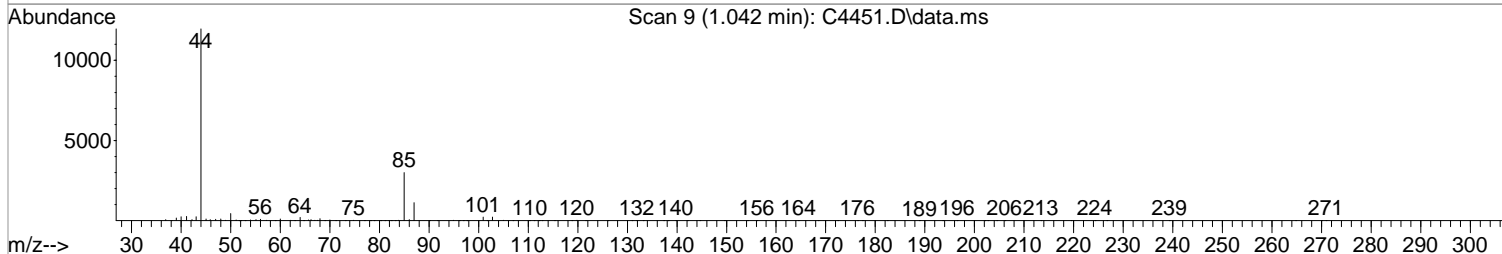
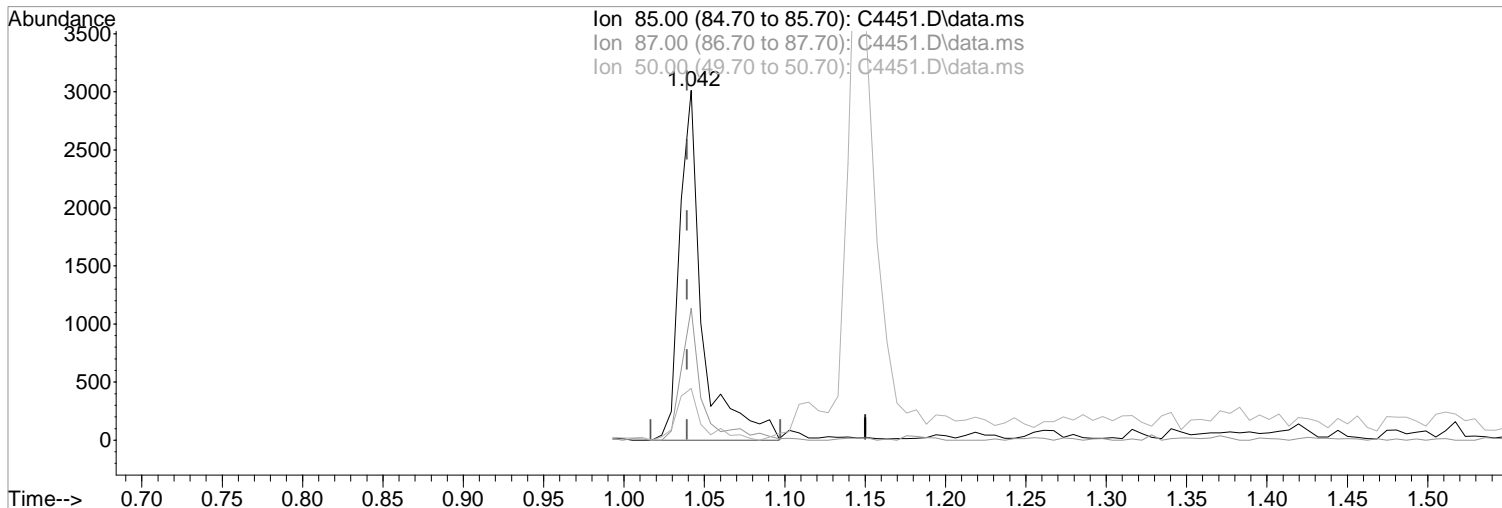
(19) Acetonitrile  
2.273min (+0.009) 8.54 ug/L  
response 1354  
Ion Exp% Act%  
40.10 100 100  
41.10 186.50 273.44#  
39.10 41.10 113.59#  
0.00 0.00 0.00

Manual Integration:  
Before  
01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (+0.002) 0.90 ug/L m  
 response 2954

Ion	Exp%	Act%
85.00	100	100
87.00	32.30	37.70
50.00	12.50	14.85
0.00	0.00	0.00

Manual Integration:

After

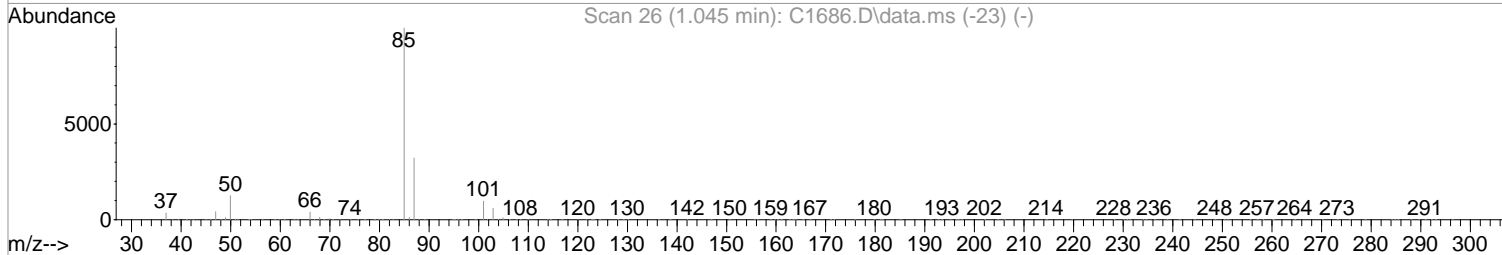
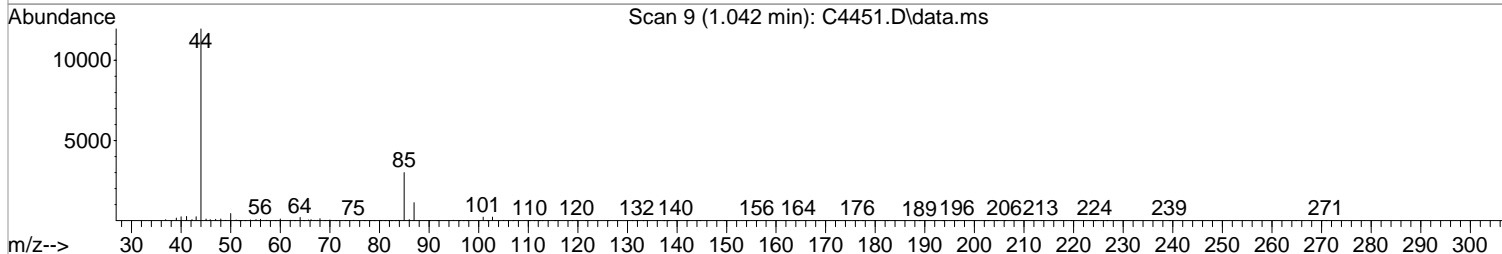
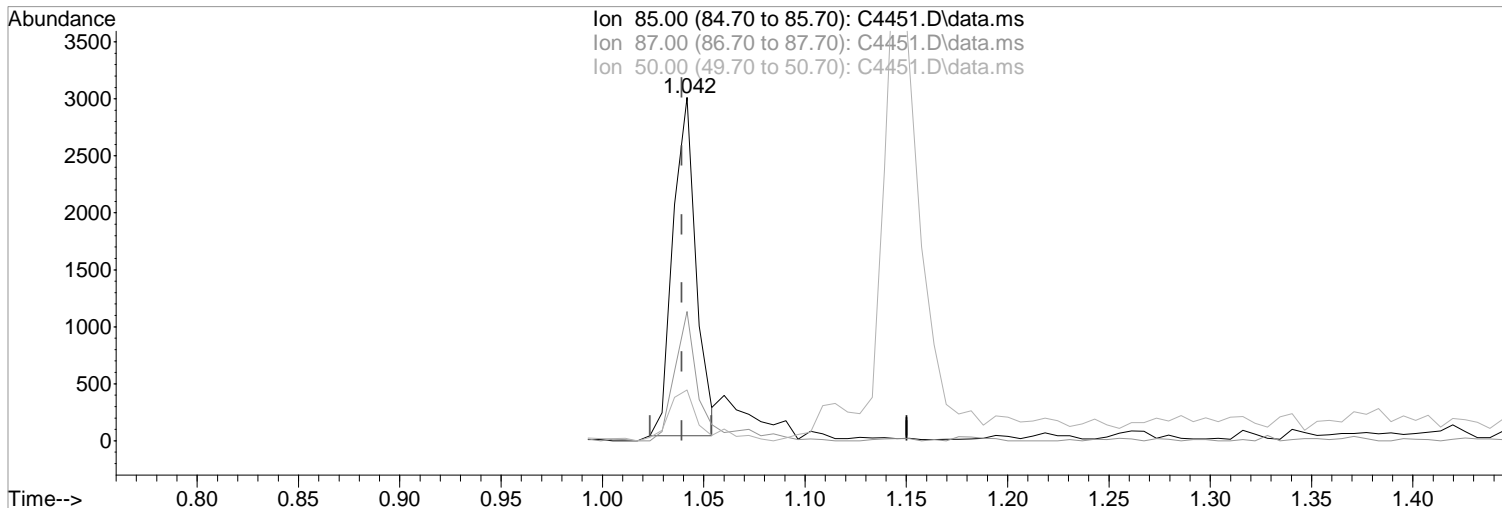
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (+0.002) 0.72 ug/L

response 2345

Ion	Exp%	Act%
85.00	100	100
87.00	32.30	37.70
50.00	12.50	14.85
0.00	0.00	0.00

Manual Integration:

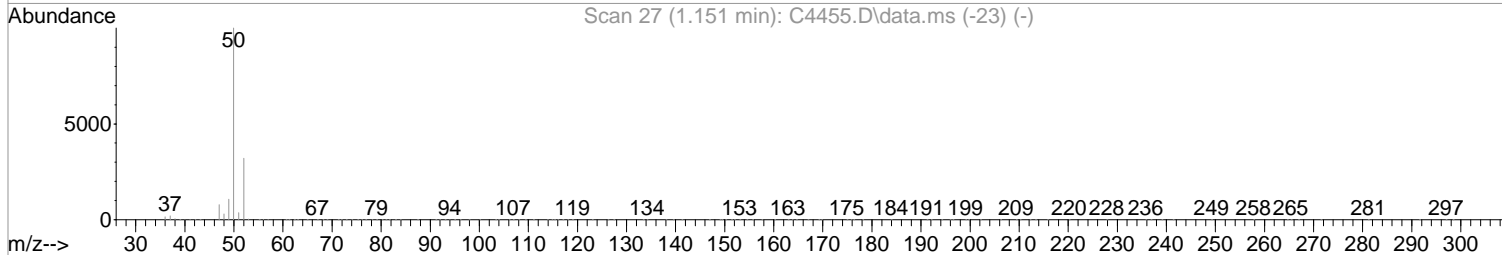
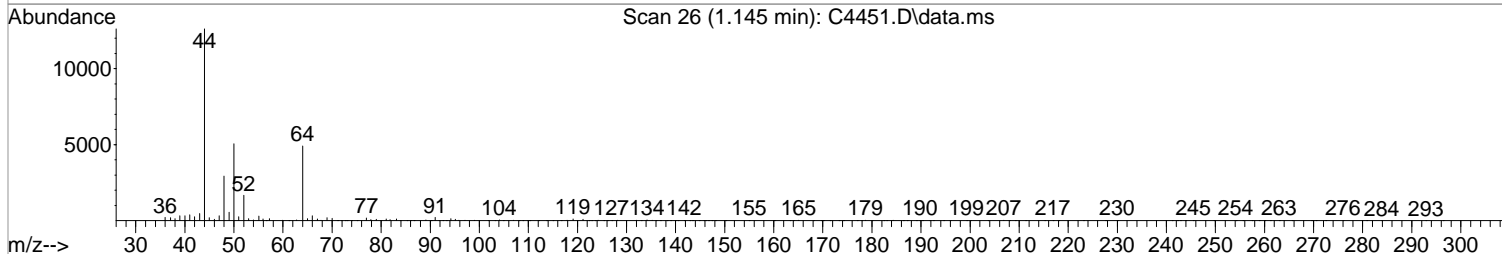
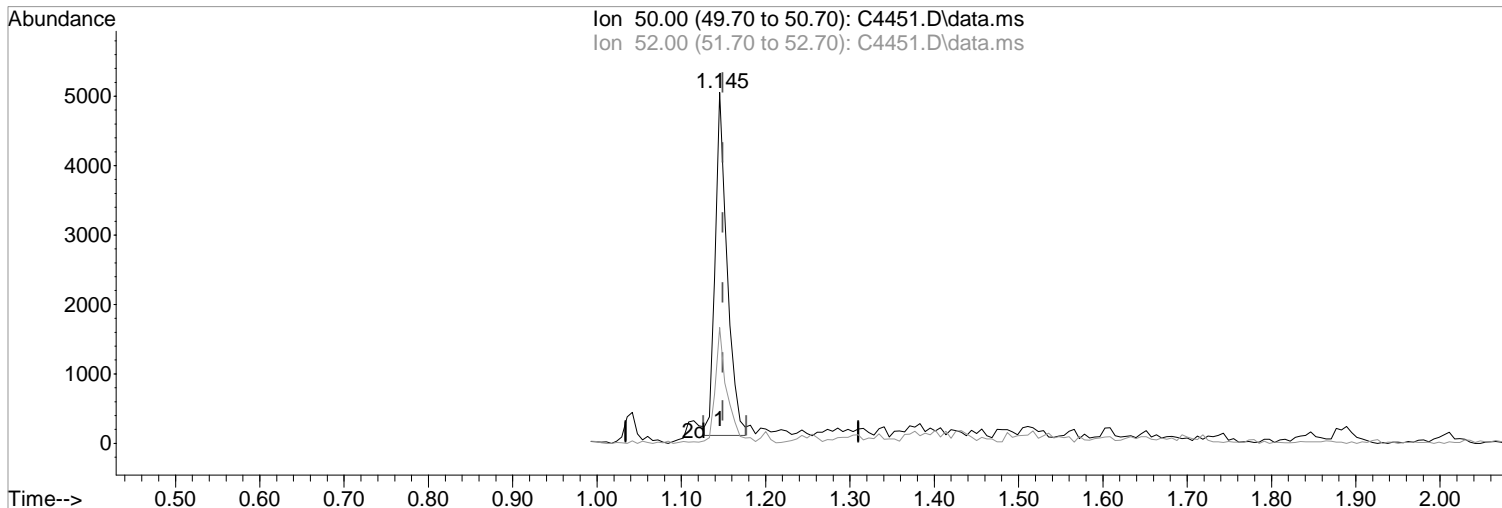
Before

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(3) Chloromethane (P)  
1.145min (-0.004) 1.25 ug/L m  
response 4868

Manual Integration:

After

Poor integration.

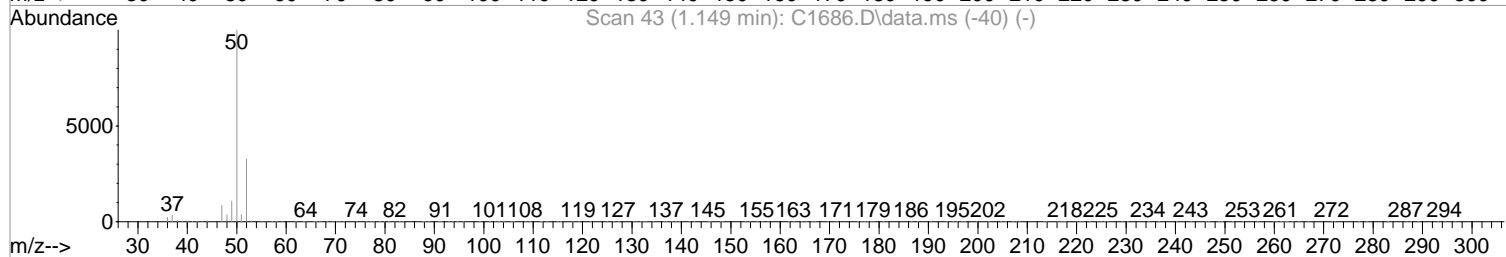
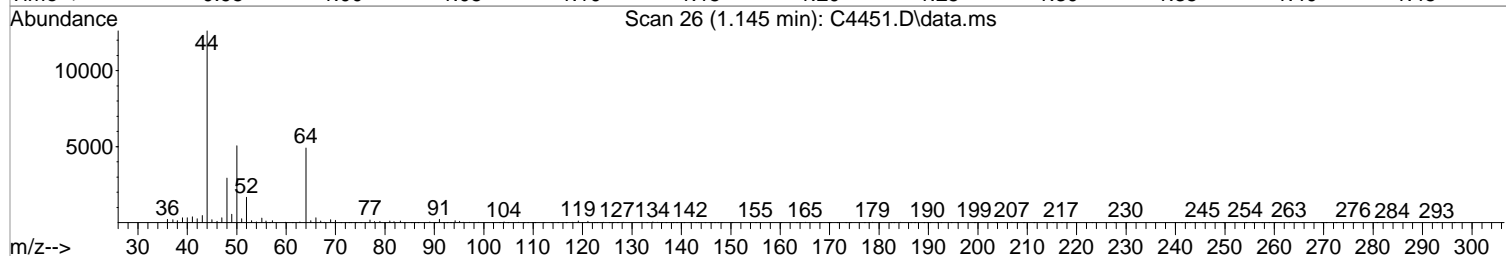
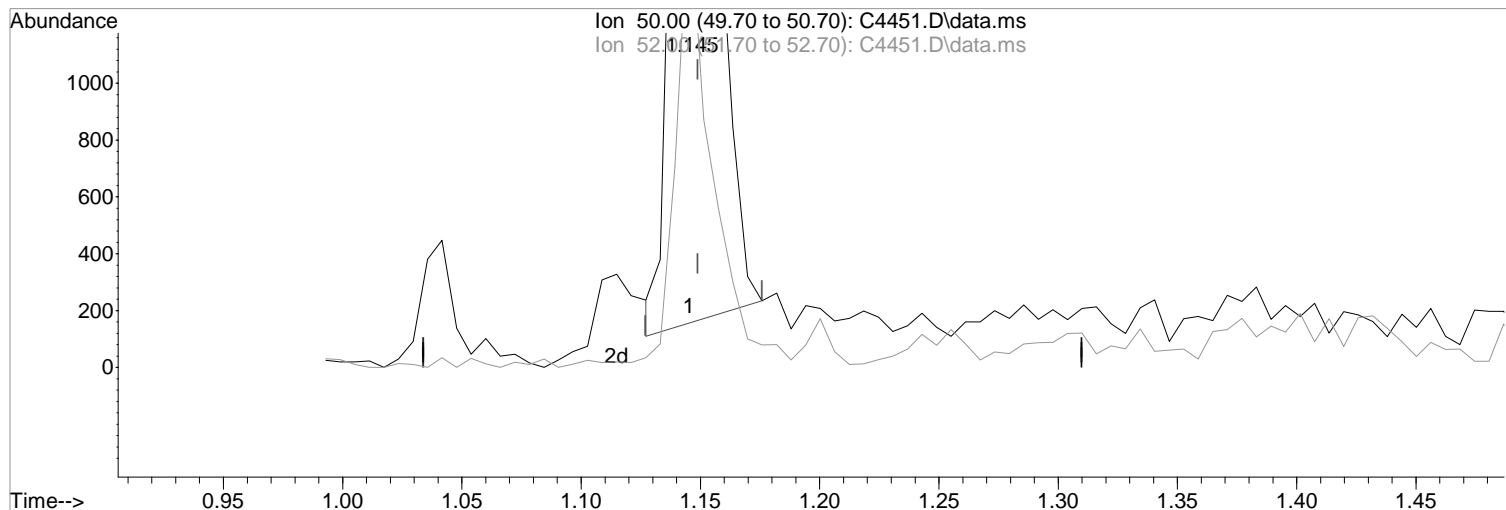
01/18/18

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	33.02
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(3) Chloromethane (P)  
1.145min (-0.004) 1.21 ug/L  
response 4691

Manual Integration:  
Before

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	33.02
0.00	0.00	0.00
0.00	0.00	0.00

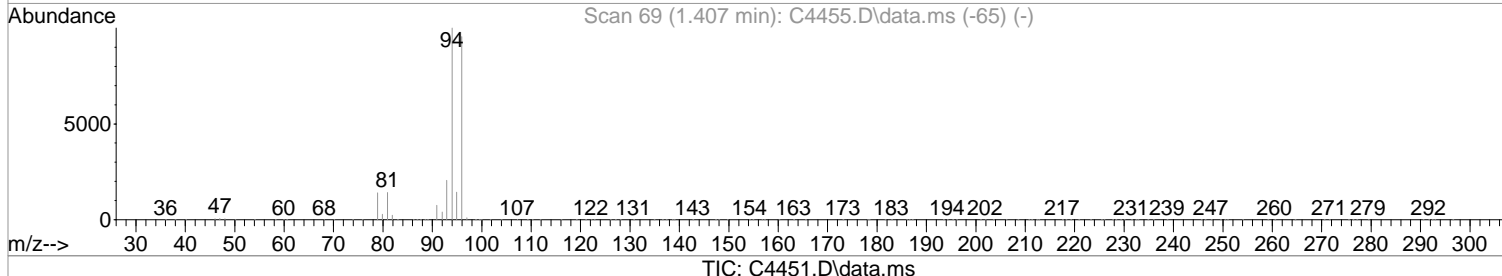
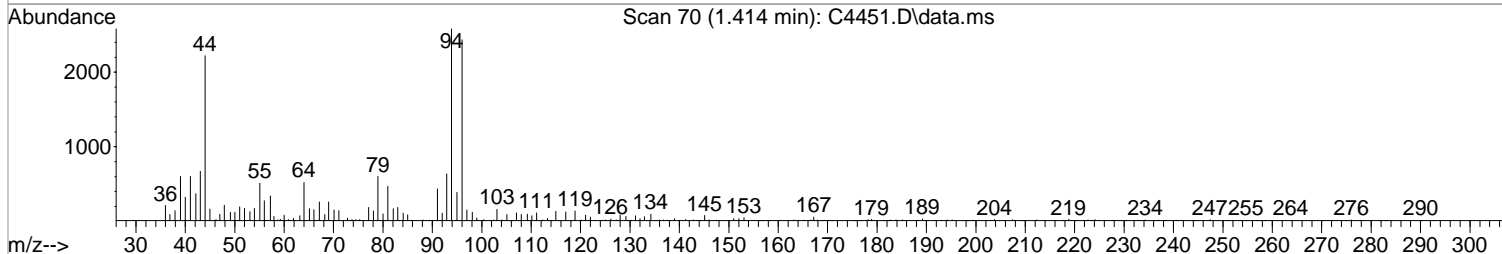
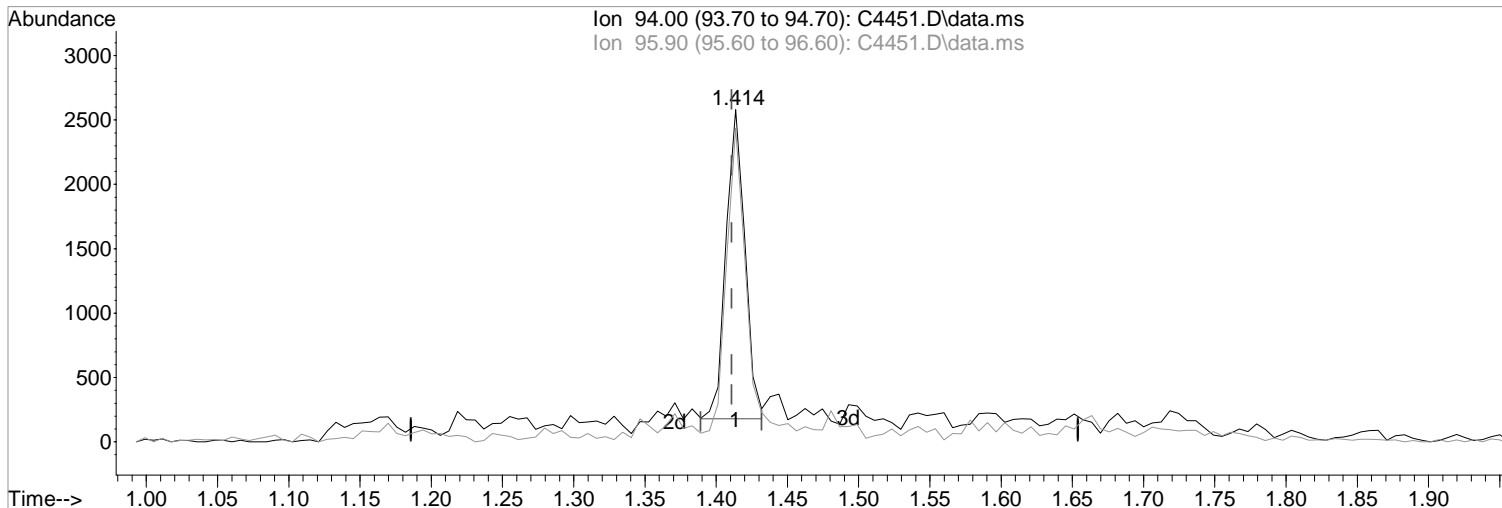
01/18/18



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.414min (+0.003) 0.80 ug/L m  
response 2230

Manual Integration:

After

Poor integration.

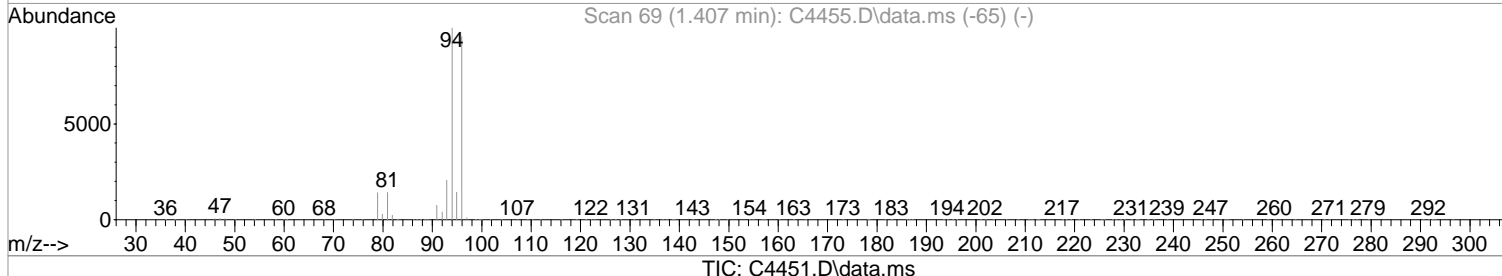
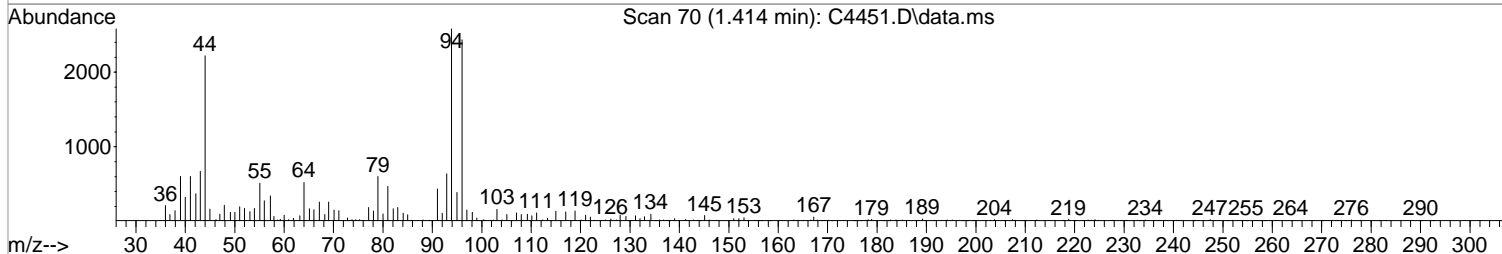
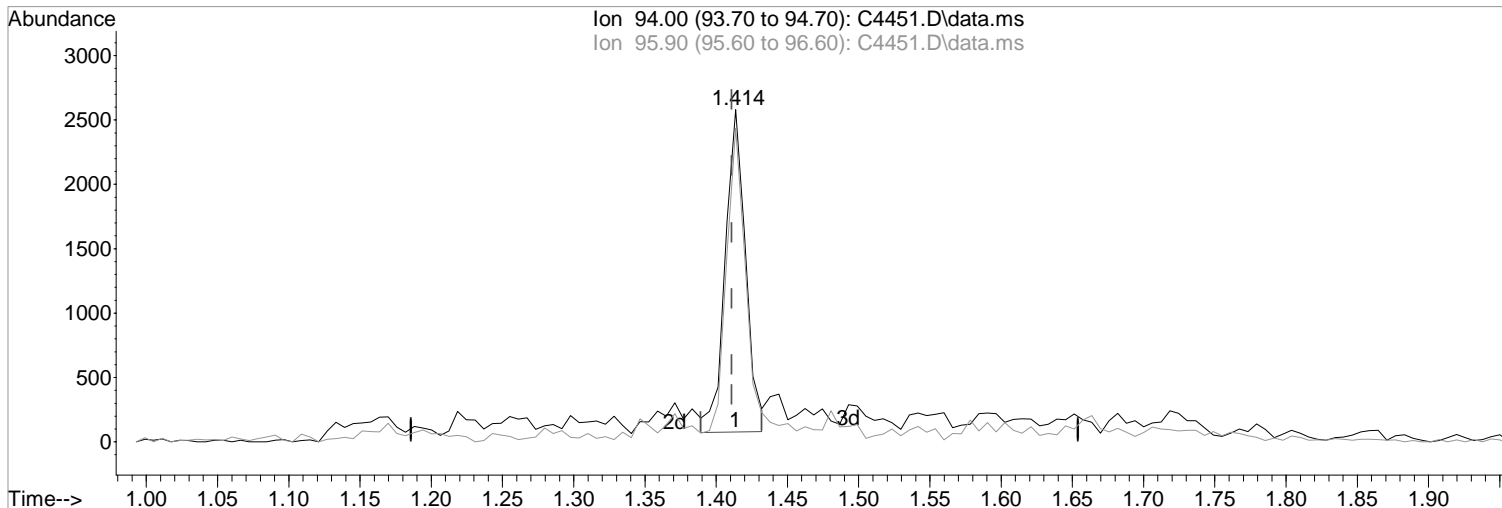
01/18/18

Ion	Exp%	Act%
94.00	100	100
95.90	92.60	94.42
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.414min (+0.003) 0.89 ug/L  
response 2493

Manual Integration:  
Before

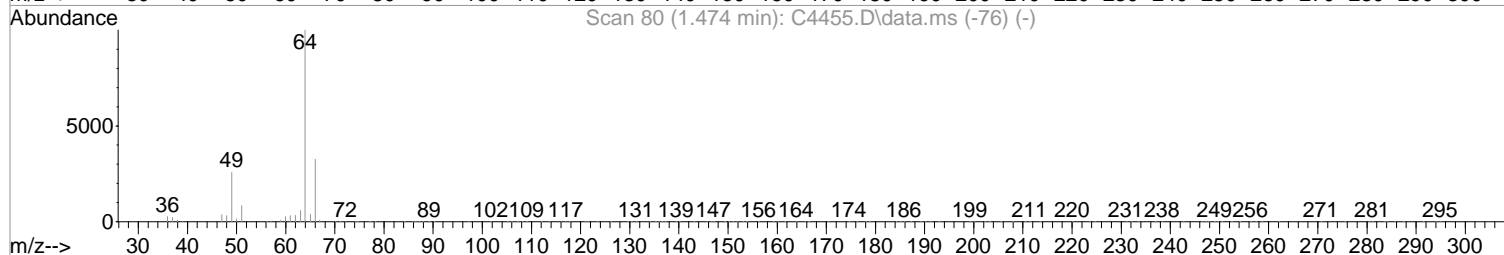
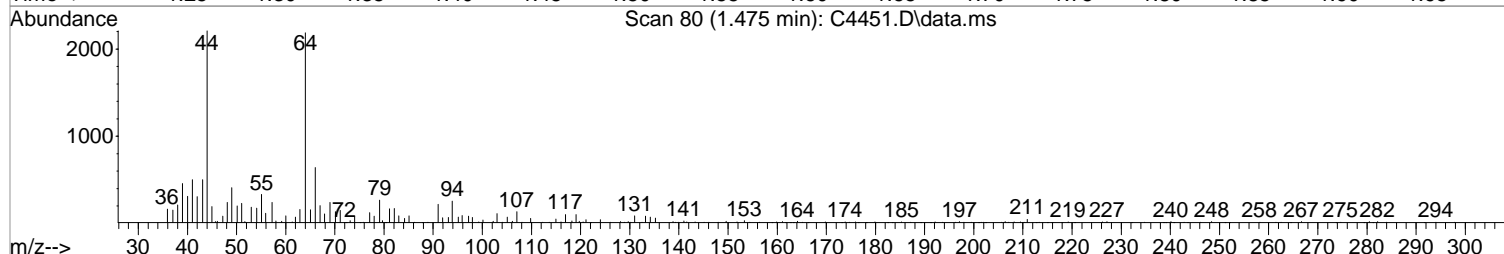
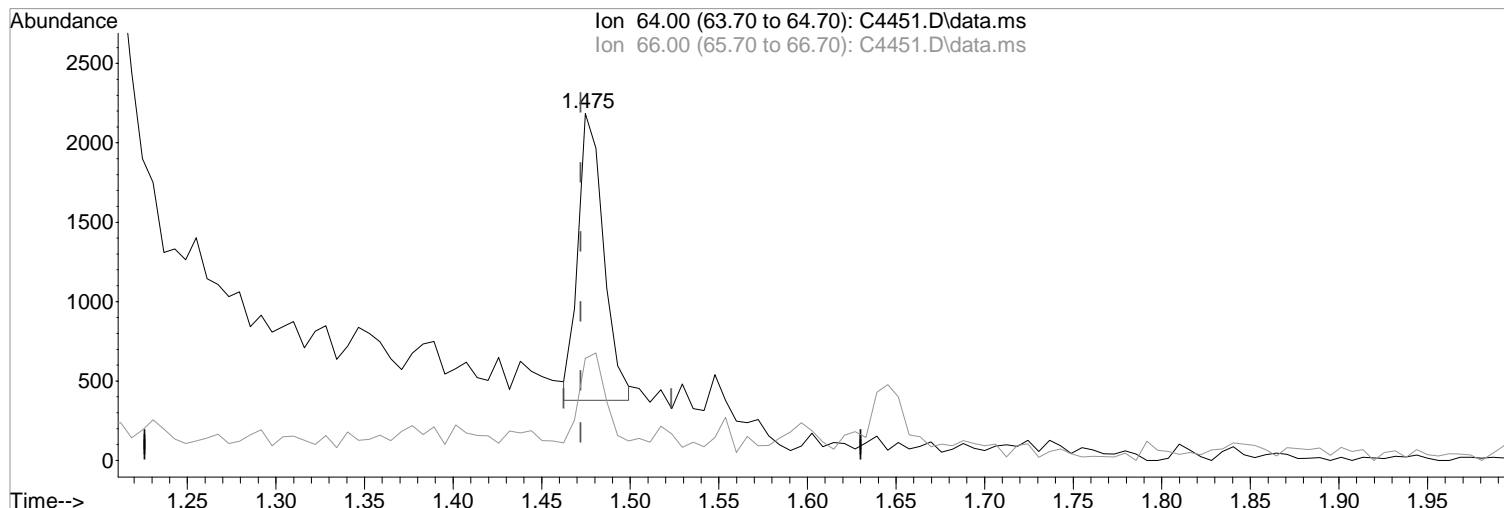
Ion	Exp%	Act%
94.00	100	100
95.90	92.60	94.42
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(6) Chloroethane (P)

1.475min (+0.003) 0.89 ug/L m

response 1825

Ion	Exp%	Act%
64.00	100	100
66.00	31.10	29.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

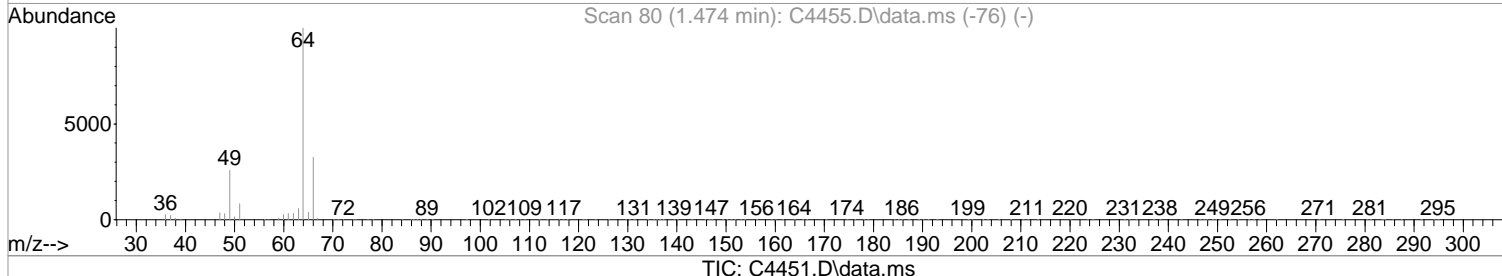
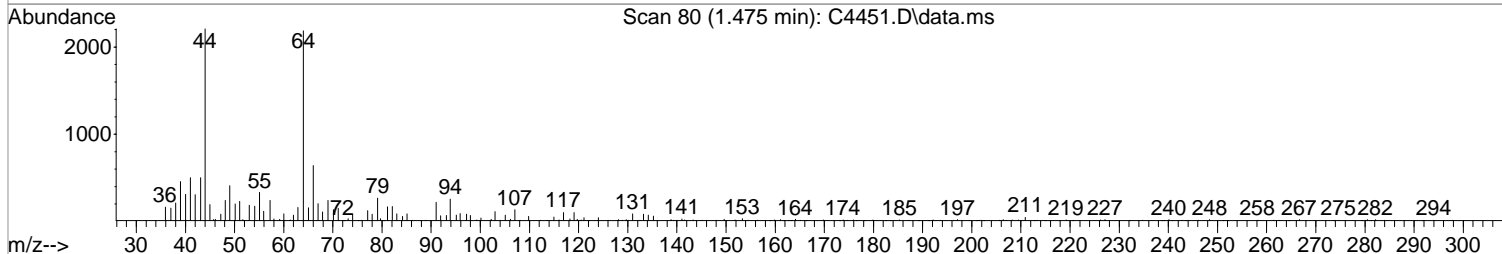
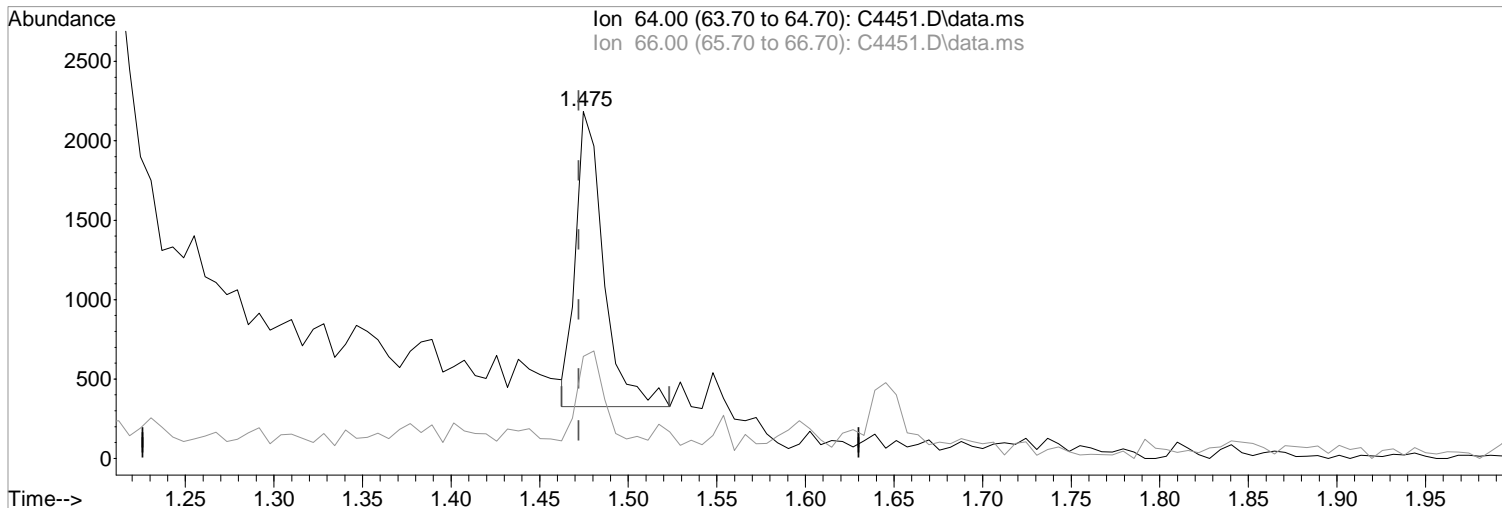
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:17:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



(6) Chloroethane (P)  
1.475min (+0.003) 0.99 ug/L  
response 2041

Manual Integration:  
Before

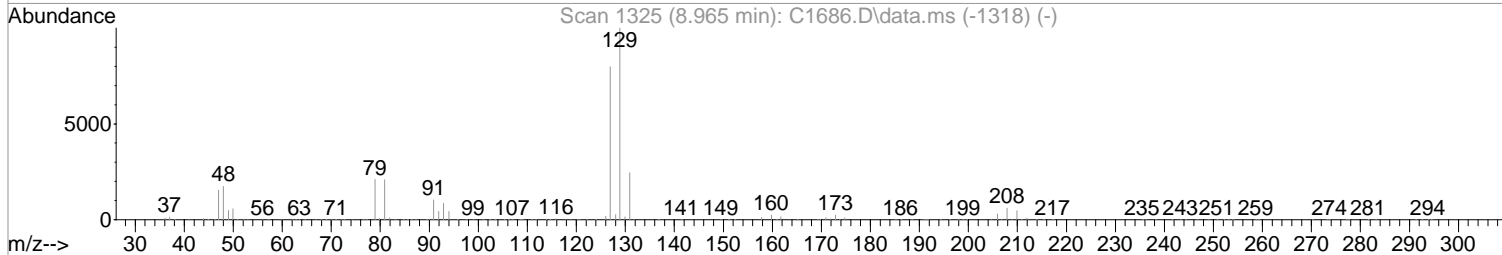
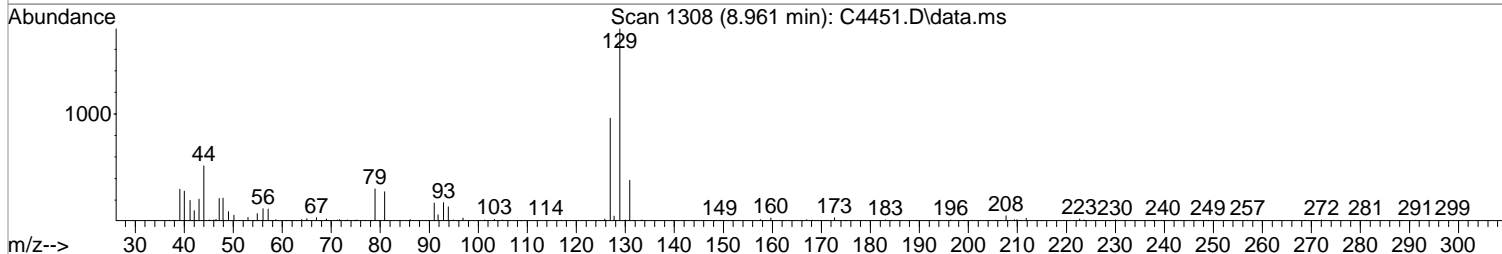
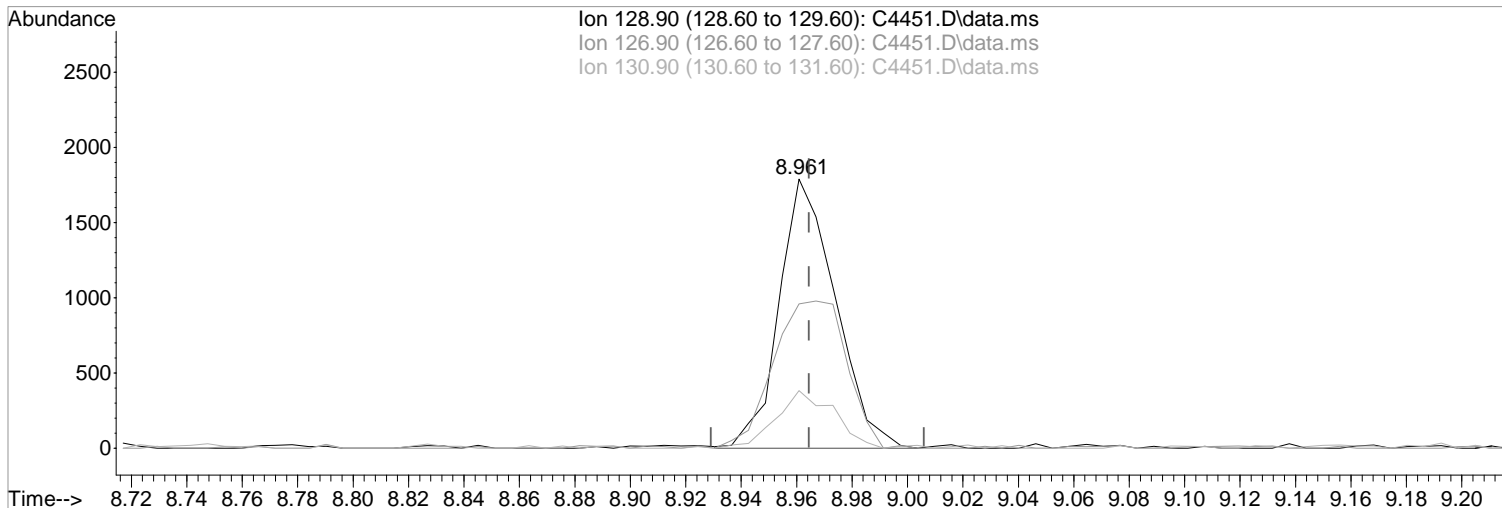
Ion	Exp%	Act%
64.00	100	100
66.00	31.10	29.38
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration



TIC: C4451.D\data.ms

(74) Dibromochloromethane (P)

8.961min (-0.004) 1.19 ug/L m  
response 2534

Ion	Exp%	Act%
128.90	100	100
126.90	79.80	53.66#
130.90	24.60	21.41
0.00	0.00	0.00

Manual Integration:

After

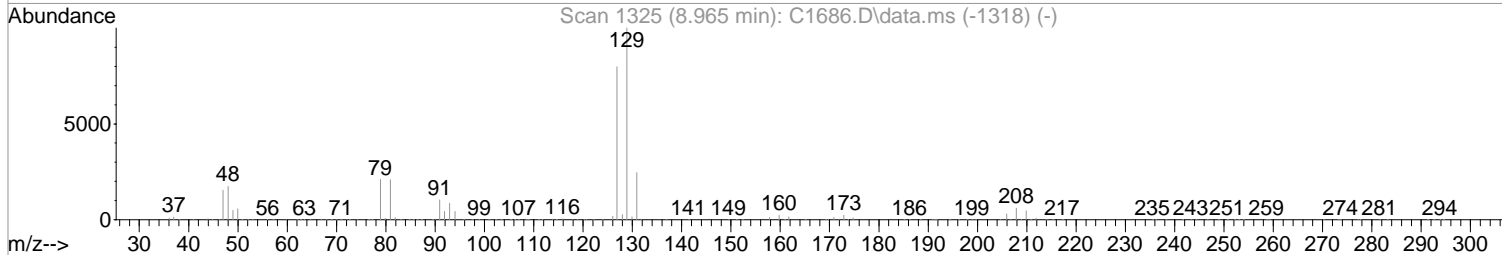
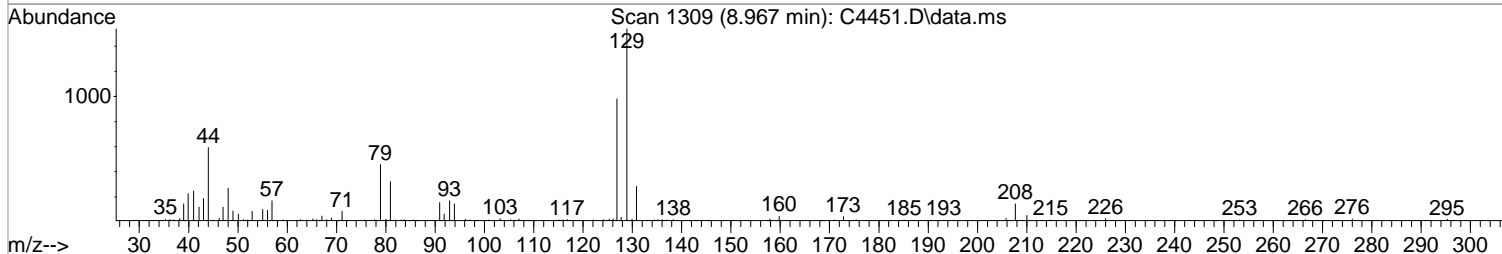
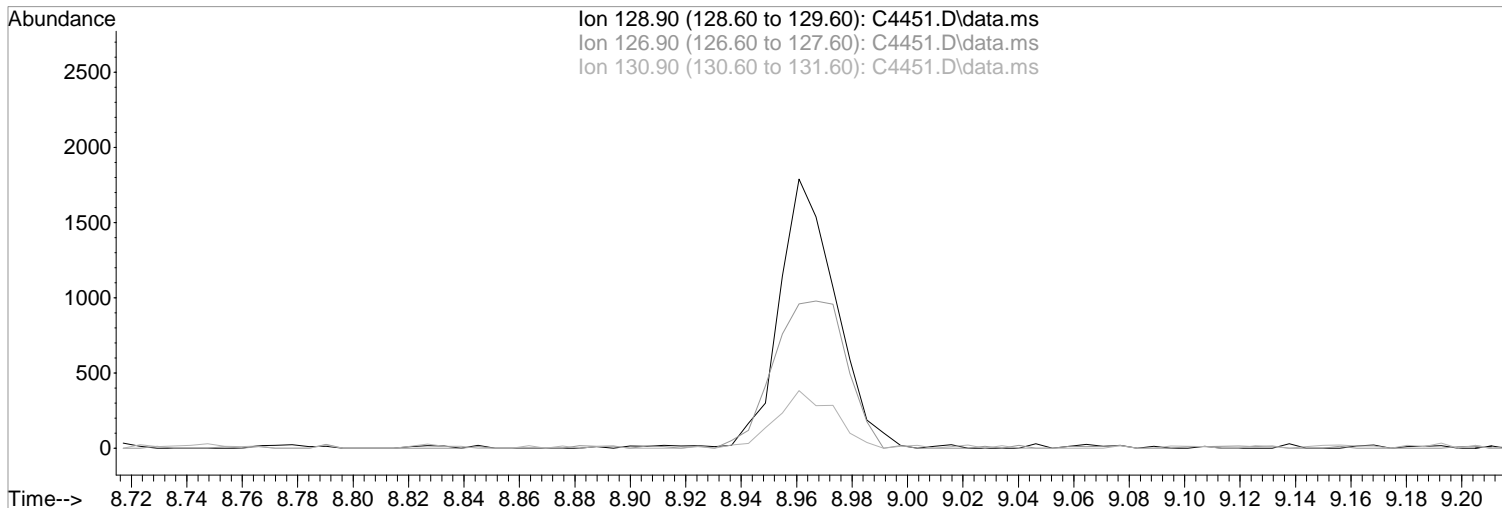
Peak not found.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:14:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration



TIC: C4451.D\data.ms

(74) Dibromochloromethane (P)

8.964min (-8.964) 0.00 ug/L

response 0

Ion Exp% Act%

128.90 100 0.00

126.90 79.80 0.00#

130.90 24.60 0.00#

0.00 0.00 0.00

Manual Integration:

Before

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Jan 18 16:10:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	244382	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	360887	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	315492	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	168937	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	24385	10.97	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	21.94%#	
47) SURR1,1,2-dichloroetha...	5.114	65	29903	10.40	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	20.80%#	
64) SURR3,Toluene-d8	7.949	98	92748	10.54	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	21.08%#	
69) SURR2,BFB	10.729	95	38142	11.11	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	22.22%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	2954m	0.90	ug/L	
3) Chloromethane	1.145	50	4868m	1.25	ug/L	
4) Vinyl Chloride	1.212	62	2719	0.81	ug/L	# 1
5) Bromomethane	1.414	94	2230m	0.80	ug/L	
6) Chloroethane	1.475	64	1825m	0.89	ug/L	
7) Freon 21	1.603	67	4482	0.81	ug/L	93
8) Trichlorofluoromethane	1.645	101	3610	0.88	ug/L	91
9) Diethyl Ether	1.846	59	2019	0.90	ug/L	95
10) Freon 123a	1.840	67	2886	0.95	ug/L	95
11) Freon 123	1.889	83	3382	1.00	ug/L	97
12) Acrolein	1.926	56	2564	5.04	ug/L	94
13) 1,1-Dicethene	2.005	96	2253	1.03	ug/L	90
14) Freon 113	2.011	101	2196	0.94	ug/L	95
15) Acetone	2.048	43	2868	2.45	ug/L	99
16) 2-Propanol	2.170	45	4912	22.48	ug/L	89
17) Iodomethane	2.121	142	1083	0.66	ug/L	89
18) Carbon Disulfide	2.170	76	8356	1.32	ug/L	95
19) Acetonitrile	2.273	40	875m	5.52	ug/L	
20) Allyl Chloride	2.285	76	1150	1.13	ug/L	95
21) Methyl Acetate	2.310	43	1976	0.88	ug/L	86
22) Methylene Chloride	2.383	84	2871	1.10	ug/L	86
23) TBA	2.505	59	8588	24.00	ug/L	89
24) Acrylonitrile	2.602	53	4706	4.38	ug/L	94
25) Methyl-t-Butyl Ether	2.657	73	7482	1.00	ug/L	96
26) trans-1,2-Dichloroethene	2.645	96	2734	1.12	ug/L	92
27) 1,1-Dicethane	3.066	63	4305	0.95	ug/L	96
28) Vinyl Acetate	3.145	86	619	1.15	ug/L	# 75
29) DIPE	3.175	45	8115	0.89	ug/L	88
30) 2-Chloro-1,3-Butadiene	3.169	53	4307	1.14	ug/L	94
31) ETBE	3.633	59	8254	1.08	ug/L	94
32) 2,2-Dichloropropane	3.767	77	4170	1.29	ug/L	93
33) cis-1,2-Dichloroethene	3.785	96	3144	1.13	ug/L	# 82
34) 2-Butanone	3.834	43	2182	1.33	ug/L	93
35) Propionitrile	3.895	54	2205	5.17	ug/L	74
36) Bromochloromethane	4.120	130	1798	1.10	ug/L	# 77
37) Methacrylonitrile	4.126	67	1066	0.94	ug/L	98
38) Tetrahydrofuran	4.224	42	1144	1.11	ug/L	95
39) Chloroform	4.279	83	4595	1.03	ug/L	94
40) 1,1,1-Trichloroethane	4.547	97	3506	0.98	ug/L	91

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4451.D  
 Acq On : 18 Jan 2018 12:52 pm  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 16:10:02 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Mon Dec 19 08:34:39 2016  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	7709	1.08	ug/L	91
43) Cyclohexane	4.651	41	2287	0.82	ug/L #	67
45) Carbontetrachloride	4.840	121	1101	1.31	ug/L #	52
46) 1,1-Dichloropropene	4.846	75	3484	1.03	ug/L	94
48) Benzene	5.218	78	10226	1.09	ug/L	97
49) 1,2-Dichloroethane	5.254	62	3667	0.99	ug/L	90
50) Iso-Butyl Alcohol	5.266	43	3653	23.86	ug/L	91
51) n-Heptane	5.797	43	3905	1.01	ug/L	97
52) 1-Butanol	6.376	56	4495	47.85	ug/L	94
53) Trichloroethene	6.303	130	2890	1.11	ug/L	92
54) Methylcyclohexane	6.565	55	3841	1.08	ug/L #	82
55) 1,2-Diclpropane	6.614	63	2730	1.02	ug/L	93
56) Dibromomethane	6.766	93	1629	0.99	ug/L	88
57) 1,4-Dioxane	6.870	88	798	19.75	ug/L	82
58) Methyl Methacrylate	6.888	69	1904	1.03	ug/L	86
59) Bromodichloromethane	7.028	83	3514	1.15	ug/L	95
60) 2-Nitropropane	7.339	41	1741	2.79	ug/L	92
61) 2-Chloroethylvinyl Ether	7.492	63	484	0.75	ug/L	86
62) cis-1,3-Dichloropropene	7.632	75	4014	1.04	ug/L	87
63) 4-Methyl-2-pentanone	7.864	43	2874	0.98	ug/L	91
65) Toluene	8.028	91	10741	1.03	ug/L	99
66) trans-1,3-Dichloropropene	8.339	75	3546	1.16	ug/L	95
67) Ethyl Methacrylate	8.510	69	3301	1.03	ug/L	98
68) 1,1,2-Trichloroethane	8.534	97	2441	1.11	ug/L #	78
71) Tetrachloroethene	8.674	164	2529	1.23	ug/L #	85
72) 2-Hexanone	8.869	43	1882	0.91	ug/L	93
73) 1,3-Dichloropropane	8.717	76	3912	1.01	ug/L	93
74) Dibromochloromethane	8.961	129	2534m	1.19	ug/L	
75) N-Butyl Acetate	9.058	43	4770	1.12	ug/L	96
76) 1,2-Dibromoethane	9.065	107	2225	1.07	ug/L	99
77) Chlorobenzene	9.613	112	7311	1.11	ug/L	93
78) 1,1,1,2-Tetrachloroethane	9.711	131	2563	1.22	ug/L	89
79) Ethylbenzene	9.753	106	3789	1.09	ug/L	93
80) (m+p)Xylene	9.875	106	9733	2.24	ug/L	93
81) o-Xylene	10.253	106	4760	1.13	ug/L #	82
82) Styrene	10.266	104	7953	1.14	ug/L	90
83) Bromoform	10.412	173	1603	1.17	ug/L	87
84) Isopropylbenzene	10.607	105	12002	1.09	ug/L	99
85) Cyclohexanone	10.662	55	10239	18.69	ug/L	96
86) trans-1,4-Dichloro-2-B...	10.930	53	807	1.25	ug/L	100
88) 1,1,2,2-Tetrachloroethane	10.881	83	3144	1.04	ug/L	85
89) Bromobenzene	10.851	156	3120	1.10	ug/L	93
90) 1,2,3-Trichloropropane	10.906	110	1057	1.13	ug/L #	86
91) n-Propylbenzene	10.985	91	13387	1.05	ug/L	96
92) 2-Chlorotoluene	11.040	91	8265	1.10	ug/L	95
93) 4-Chlorotoluene	11.137	91	9894	1.08	ug/L	95
94) 1,3,5-Trimethylbenzene	11.150	105	10103	1.11	ug/L	95
95) tert-Butylbenzene	11.424	119	8797	1.12	ug/L	97
96) 1,2,4-Trimethylbenzene	11.467	105	10153	1.12	ug/L	86
97) sec-Butylbenzene	11.613	105	12765	1.06	ug/L	98
98) p-Isopropyltoluene	11.741	119	11383	1.12	ug/L	95
99) 1,3-Dclbenz	11.686	146	6443	1.16	ug/L	99
100) 1,4-Dclbenz	11.759	146	6920	1.21	ug/L	95
101) n-Butylbenzene	12.082	91	10337	1.05	ug/L	92
102) 1,2-Dclbenz	12.070	146	5931	1.11	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	631	1.14	ug/L #	83



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4451.D  
Acq On : 18 Jan 2018 12:52 pm  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD Inst : MSVOA14  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 18 16:10:02 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Mon Dec 19 08:34:39 2016  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	5106	1.14	ug/L	96
105) 1,2,4-Tcbenzene	13.369	180	4816	1.17	ug/L	96
106) Hexachlorobt	13.515	225	2539	1.14	ug/L	92
107) Naphthalen	13.558	128	10521	1.16	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	4478	1.18	ug/L	95

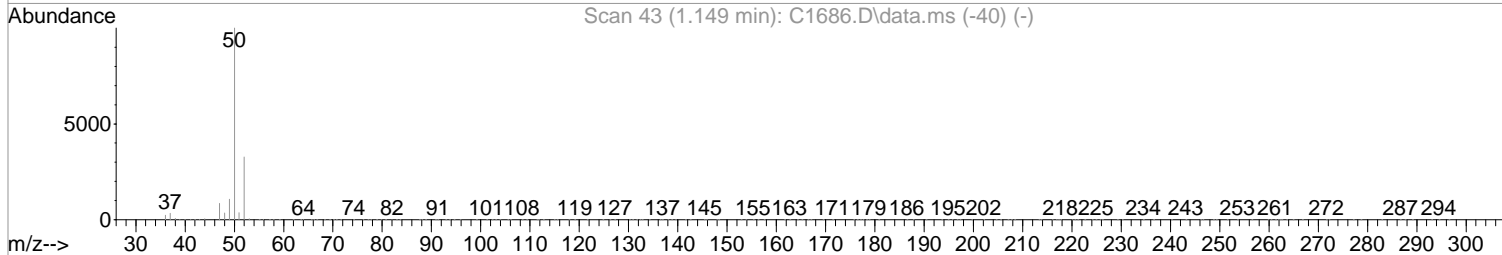
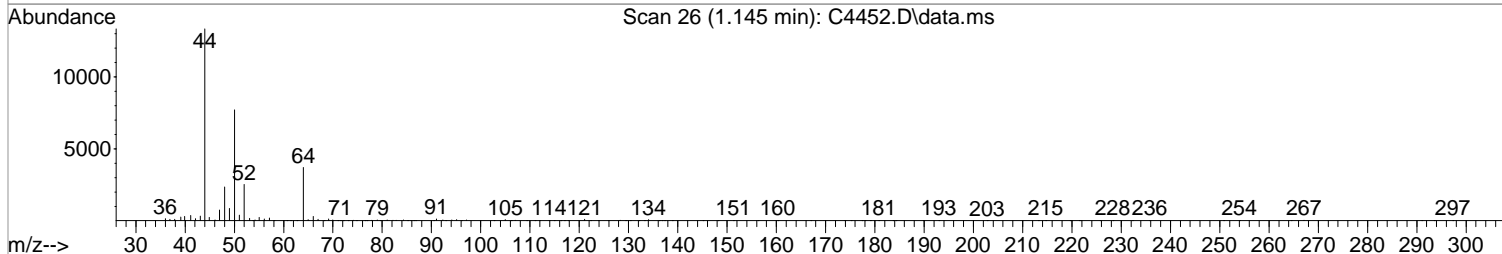
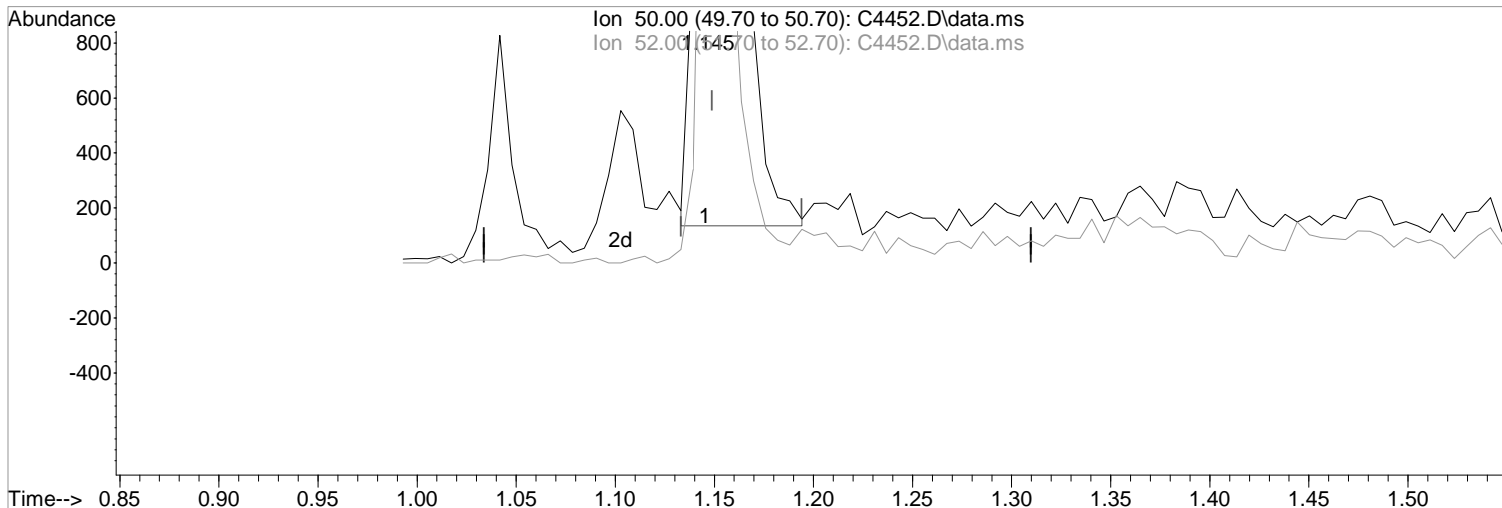
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(3) Chloromethane (P)

1.145min (-0.004) 2.16 ug/L m

response 8289

Ion	Exp%	Act%
50.00	100	100
52.00	32.80	32.65
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

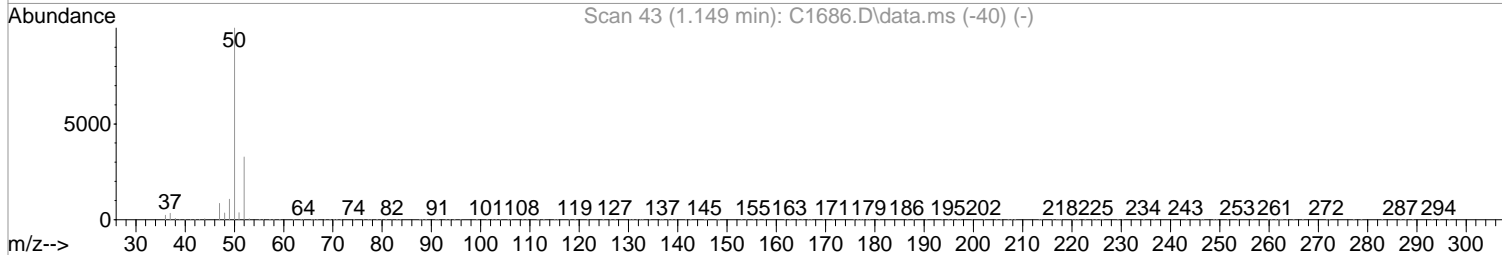
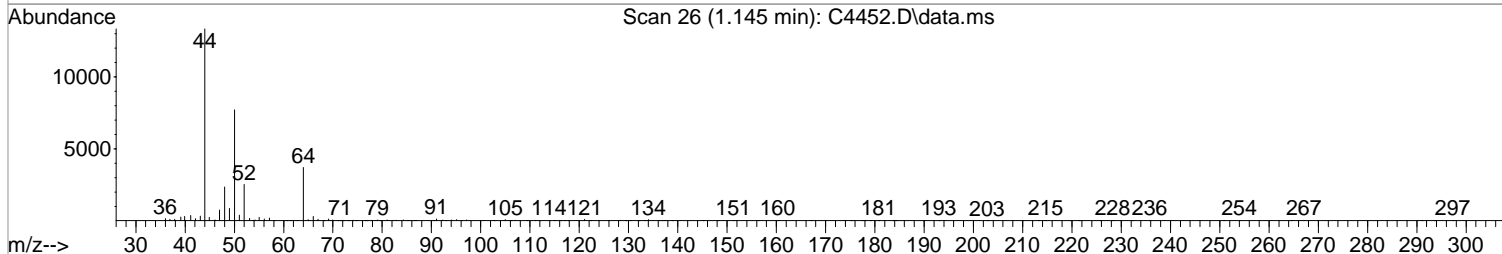
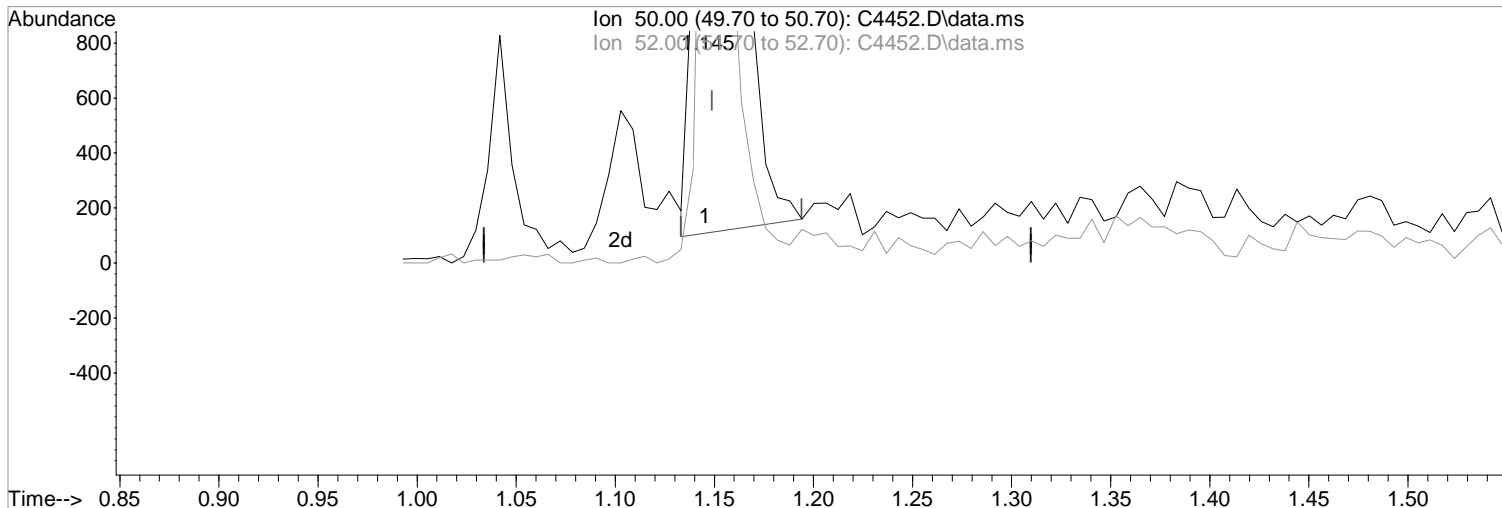
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(3) Chloromethane (P)  
1.145min (-0.004) 2.17 ug/L  
response 8314

Manual Integration:  
Before

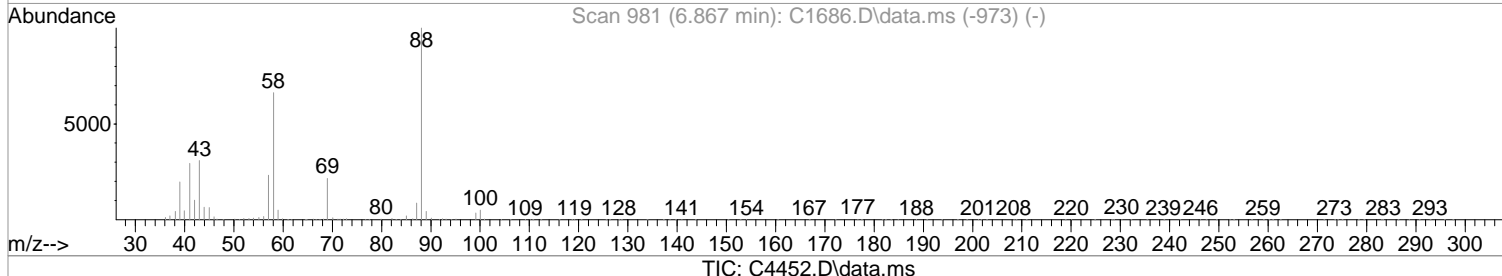
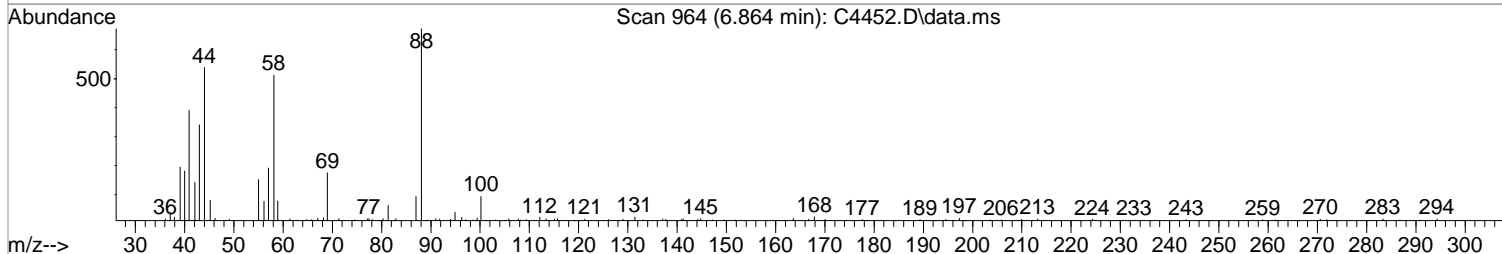
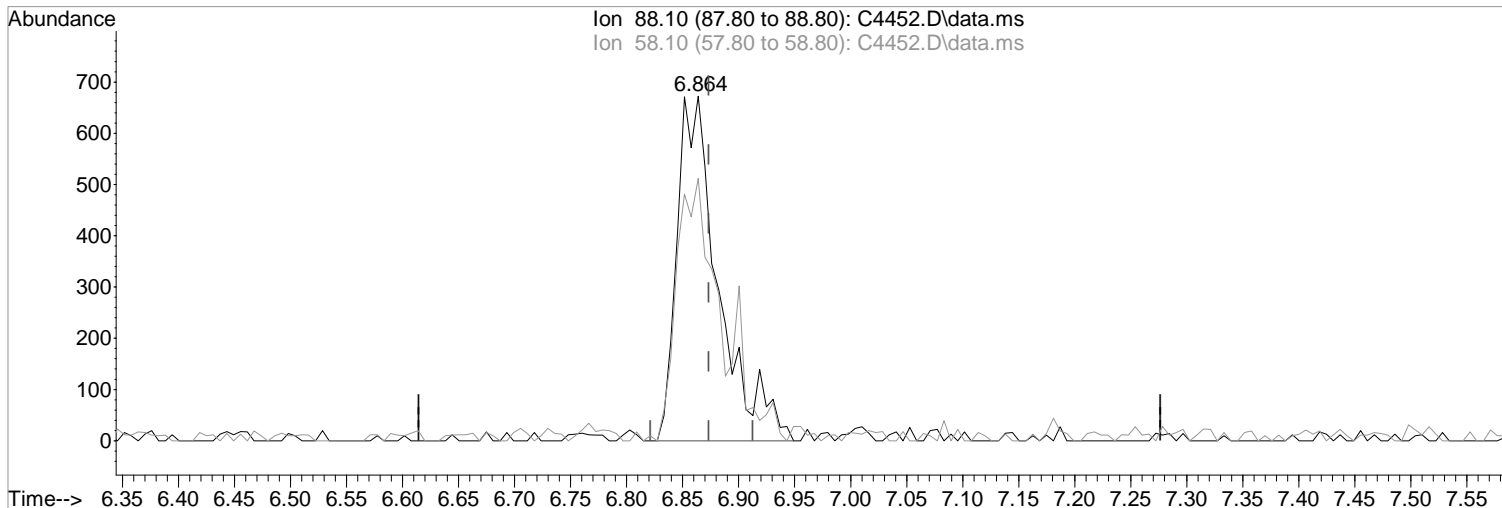
Ion	Exp%	Act%
50.00	100	100
52.00	32.80	32.65
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



(57) 1,4-Dioxane  
6.864min (-0.010) 43.75 ug/L m  
response 1732

Manual Integration:

After

Poor integration.

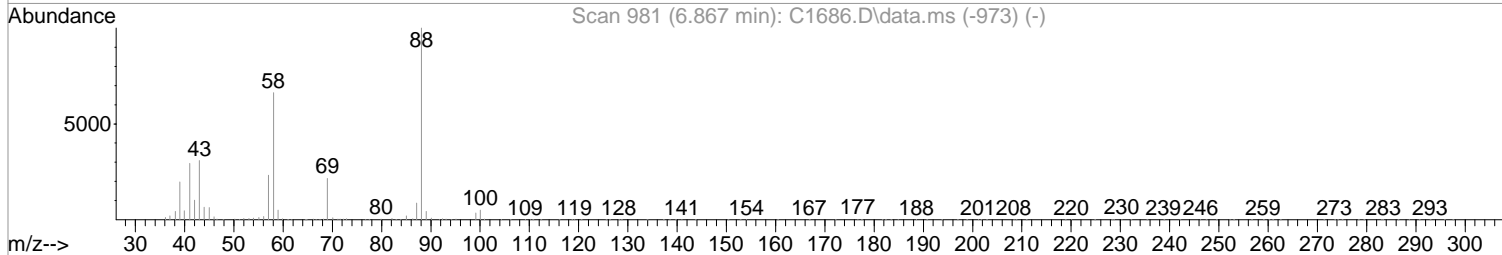
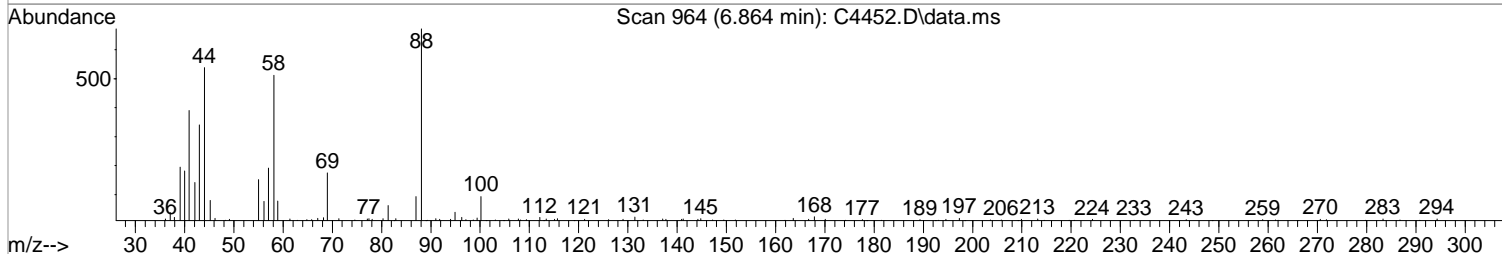
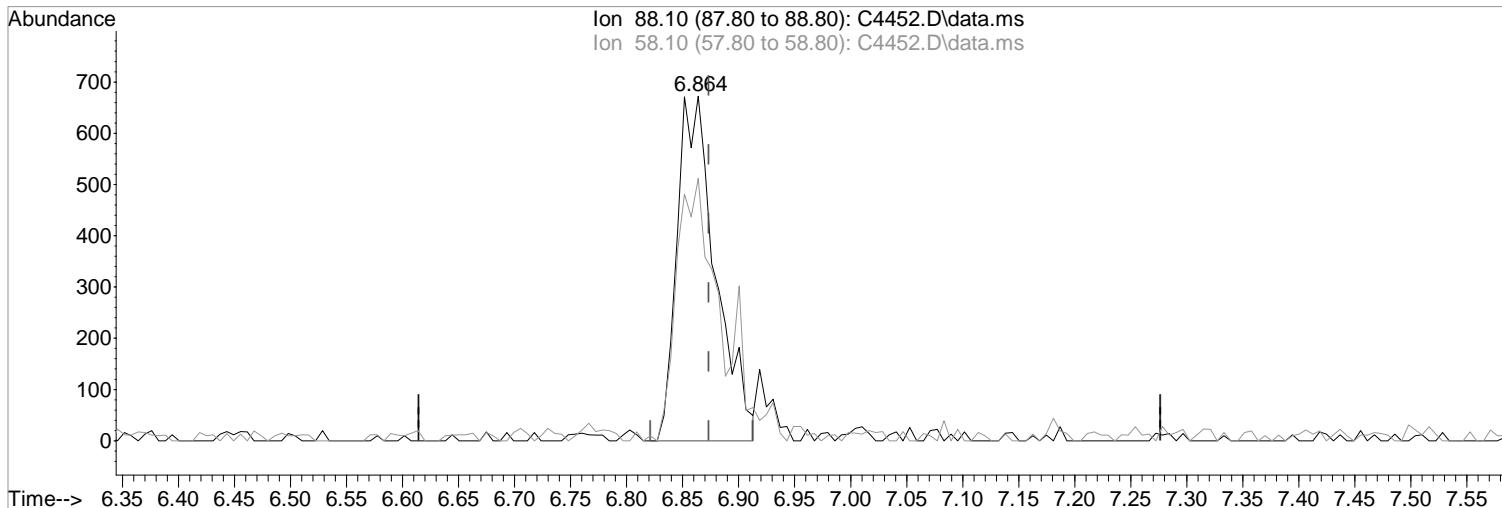
01/18/18

Ion	Exp%	Act%
88.10	100	100
58.10	66.80	76.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4452.D  
Acq On : 18 Jan 2018 1:15 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:34:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:17:50 2018  
Response via : Initial Calibration



TIC: C4452.D\data.ms

(57) 1,4-Dioxane  
6.864min (-0.010) 40.62 ug/L  
response 1608

Manual Integration:  
Before

Ion	Exp%	Act%
88.10	100	100
58.10	66.80	76.19
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4452.D  
 Acq On : 18 Jan 2018 1:15 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 13:37:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:17:50 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	234101	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	354103	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	317655	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	171417	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	22368	10.26	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery	=	20.52%#	
47) SURR1,1,2-dichloroetha...	5.120	65	29150	10.33	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery	=	20.66%#	
64) SURR3,Toluene-d8	7.949	98	95195	11.03	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery	=	22.06%#	
69) SURR2,BFB	10.729	95	41284	12.25	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery	=	24.50%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	5688	1.85	ug/L	99
3) Chloromethane	1.145	50	8289m	2.16	ug/L	
4) Vinyl Chloride	1.212	62	5870	1.88	ug/L #	45
5) Bromomethane	1.414	94	4172	1.58	ug/L	89
6) Chloroethane	1.481	64	3000	1.52	ug/L	87
7) Freon 21	1.603	67	8616	1.69	ug/L	93
8) Trichlorofluoromethane	1.645	101	6842	1.77	ug/L	99
9) Diethyl Ether	1.847	59	4039	1.91	ug/L	98
10) Freon 123a	1.847	67	5998	2.10	ug/L	87
11) Freon 123	1.889	83	6647	2.06	ug/L	96
12) Acrolein	1.932	56	5147	10.74	ug/L	95
13) 1,1-Dicethene	2.005	96	4378	2.10	ug/L	89
14) Freon 113	2.011	101	4480	2.06	ug/L	92
15) Acetone	2.042	43	4469	3.30	ug/L	90
16) 2-Propanol	2.157	45	9962	46.77	ug/L	99
17) Iodomethane	2.121	142	1688	1.13	ug/L	98
18) Carbon Disulfide	2.170	76	14701	2.33	ug/L	99
19) Acetonitrile	2.255	40	1712	11.13	ug/L #	82
20) Allyl Chloride	2.292	76	2187	2.20	ug/L #	72
21) Methyl Acetate	2.316	43	4143	1.99	ug/L	97
22) Methylene Chloride	2.389	84	5410	2.14	ug/L	97
23) TBA	2.505	59	20507	58.91	ug/L	87
24) Acrylonitrile	2.602	53	9718	9.61	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	15981	2.23	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	4958	2.12	ug/L	96
27) 1,1-Dicethane	3.066	63	8831	2.05	ug/L	94
28) Vinyl Acetate	3.145	86	1030	1.96	ug/L #	47
29) DIPE	3.182	45	16542	1.92	ug/L	94
30) 2-Chloro-1,3-Butadiene	3.169	53	7807	2.11	ug/L	90
31) ETBE	3.639	59	16461	2.22	ug/L	92
32) 2,2-Dichloropropane	3.785	77	8145	2.58	ug/L	95
33) cis-1,2-Dichloroethene	3.785	96	5597	2.09	ug/L	99
34) 2-Butanone	3.834	43	3518	2.15	ug/L	79
35) Propionitrile	3.895	54	4134	10.02	ug/L	90
36) Bromochloromethane	4.127	130	3389	2.16	ug/L #	82
37) Methacrylonitrile	4.114	67	2536	2.37	ug/L #	81
38) Tetrahydrofuran	4.218	42	2491	2.49	ug/L	91
39) Chloroform	4.273	83	8698	2.04	ug/L	91
40) 1,1,1-Trichloroethane	4.547	97	7802	2.29	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4452.D  
 Acq On : 18 Jan 2018 1:15 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 13:37:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:17:50 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.517	73	16253	2.34	ug/L	92
43) Cyclohexane	4.639	41	5130	1.92	ug/L	97
45) Carbontetrachloride	4.840	121	2059	2.37	ug/L	98
46) 1,1-Dichloropropene	4.858	75	6577	1.99	ug/L	96
48) Benzene	5.224	78	19485	2.09	ug/L	98
49) 1,2-Dichloroethane	5.260	62	7625	2.10	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	6350	41.14	ug/L	98
51) n-Heptane	5.809	43	7386	1.98	ug/L	92
52) 1-Butanol	6.370	56	9990	109.06	ug/L	78
53) Trichloroethene	6.303	130	5635	2.22	ug/L	94
54) Methylcyclohexane	6.571	55	7500	2.15	ug/L	91
55) 1,2-Diclpropane	6.608	63	5379	2.06	ug/L	94
56) Dibromomethane	6.766	93	3084	1.94	ug/L	90
57) 1,4-Dioxane	6.864	88	1732m	43.75	ug/L	
58) Methyl Methacrylate	6.894	69	4456	2.44	ug/L	90
59) Bromodichloromethane	7.028	83	6591	2.14	ug/L	97
60) 2-Nitropropane	7.333	41	2598	4.01	ug/L	94
61) 2-Chloroethylvinyl Ether	7.498	63	1669	2.79	ug/L	88
62) cis-1,3-Dichloropropene	7.626	75	8278	2.17	ug/L	94
63) 4-Methyl-2-pentanone	7.864	43	6260	2.18	ug/L	91
65) Toluene	8.028	91	21242	2.07	ug/L	96
66) trans-1,3-Dichloropropene	8.333	75	7898	2.51	ug/L	94
67) Ethyl Methacrylate	8.510	69	7432	2.36	ug/L	91
68) 1,1,2-Trichloroethane	8.534	97	4701	2.14	ug/L	97
71) Tetrachloroethene	8.681	164	4338	2.08	ug/L	96
72) 2-Hexanone	8.870	43	4296	2.09	ug/L	89
73) 1,3-Dichloropropane	8.717	76	8264	2.11	ug/L	97
74) Dibromochloromethane	8.961	129	5070	2.28	ug/L	93
75) N-Butyl Acetate	9.059	43	10012	2.30	ug/L	93
76) 1,2-Dibromoethane	9.065	107	4658	2.18	ug/L	94
77) Chlorobenzene	9.613	112	14293	2.13	ug/L	97
78) 1,1,1,2-Tetrachloroethane	9.711	131	5086	2.33	ug/L	97
79) Ethylbenzene	9.753	106	7621	2.17	ug/L	96
80) (m+p)Xylene	9.875	106	19064	4.31	ug/L	92
81) o-Xylene	10.253	106	9407	2.18	ug/L #	85
82) Styrene	10.266	104	15662	2.17	ug/L	96
83) Bromoform	10.418	173	3144	2.23	ug/L	87
84) Isopropylbenzene	10.607	105	24607	2.19	ug/L	97
85) Cyclohexanone	10.662	55	22042	40.34	ug/L	100
86) trans-1,4-Dichloro-2-B...	10.942	53	1778	2.63	ug/L	75
88) 1,1,2,2-Tetrachloroethane	10.881	83	6733	2.19	ug/L	93
89) Bromobenzene	10.851	156	6276	2.18	ug/L	90
90) 1,2,3-Trichloropropane	10.912	110	2157	2.26	ug/L #	87
91) n-Propylbenzene	10.985	91	28210	2.14	ug/L	99
92) 2-Chlorotoluene	11.040	91	16528	2.13	ug/L	97
93) 4-Chlorotoluene	11.137	91	20281	2.16	ug/L	96
94) 1,3,5-Trimethylbenzene	11.143	105	20518	2.19	ug/L	94
95) tert-Butylbenzene	11.424	119	17542	2.16	ug/L	97
96) 1,2,4-Trimethylbenzene	11.467	105	20945	2.25	ug/L	99
97) sec-Butylbenzene	11.613	105	25954	2.11	ug/L	97
98) p-Isopropyltoluene	11.741	119	22371	2.14	ug/L	98
99) 1,3-Dclbenz	11.686	146	12301	2.17	ug/L	94
100) 1,4-Dclbenz	11.759	146	12640	2.16	ug/L	96
101) n-Butylbenzene	12.082	91	21002	2.08	ug/L	98
102) 1,2-Dclbenz	12.070	146	11986	2.20	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	1421	2.49	ug/L	95



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4452.D  
 Acq On : 18 Jan 2018 1:15 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 18 13:37:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:17:50 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	10571	2.32	ug/L	97
105) 1,2,4-Tcbenzene	13.369	180	9396	2.21	ug/L	95
106) Hexachlorobt	13.515	225	5210	2.29	ug/L	97
107) Naphthalen	13.552	128	22173	2.34	ug/L	98
108) 1,2,3-Tclbenzene	13.747	180	8683	2.24	ug/L	97

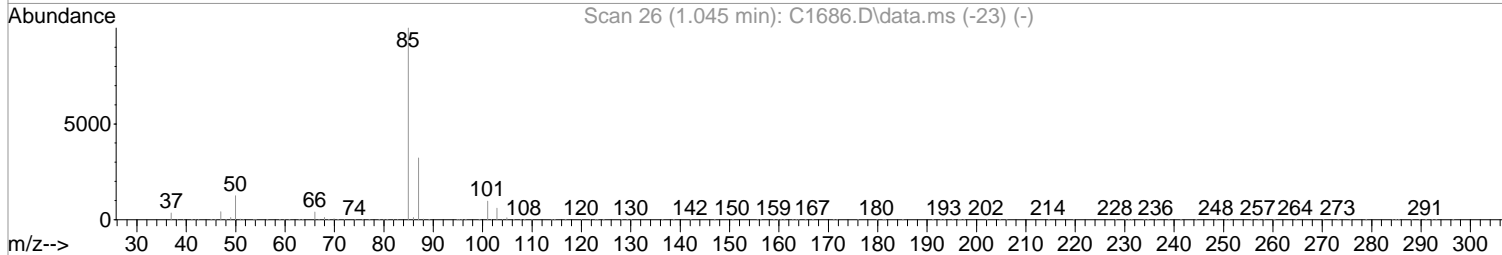
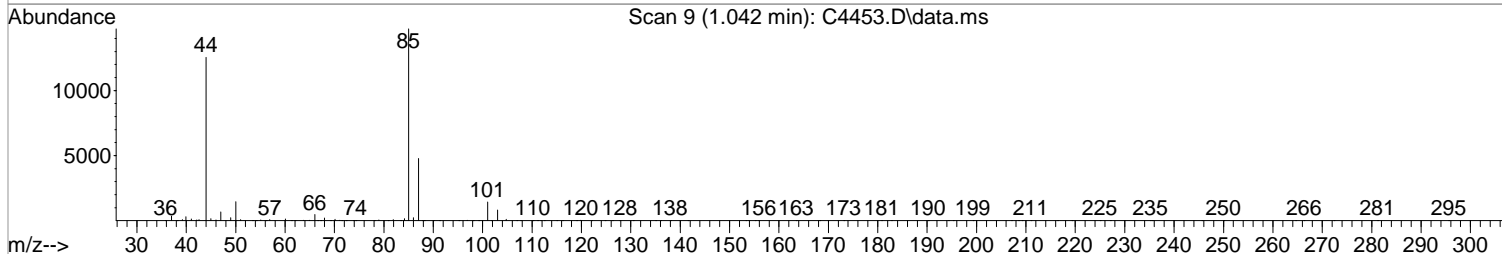
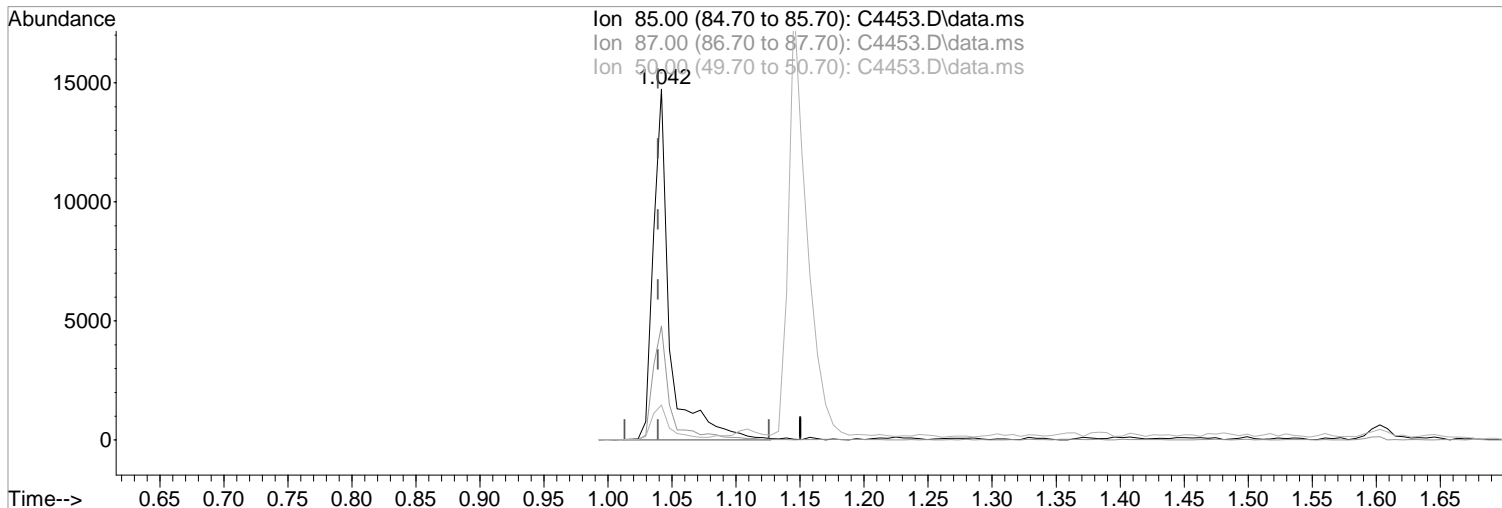
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4453.D  
Acq On : 18 Jan 2018 1:38 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:54:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:37:38 2018  
Response via : Initial Calibration



TIC: C4453.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (+0.003) 4.29 ug/L m  
response 13145

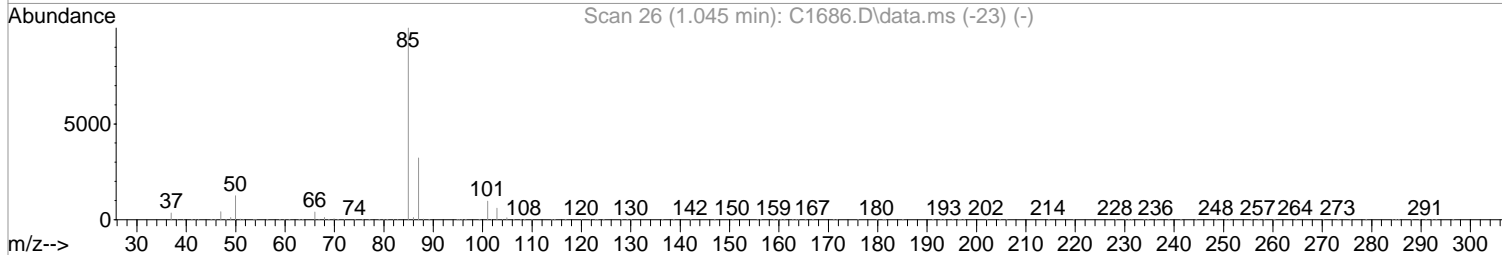
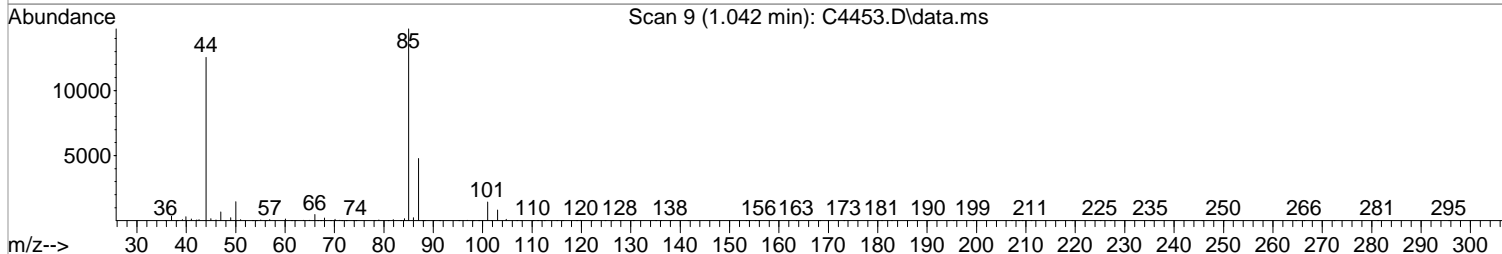
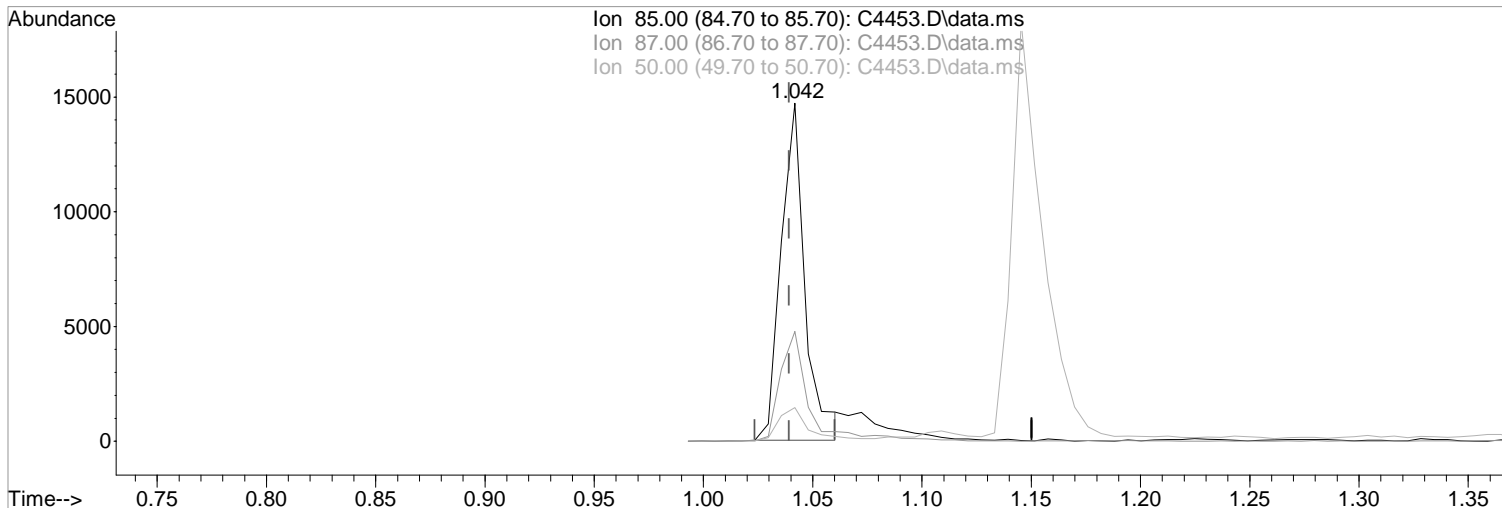
Ion	Exp%	Act%
85.00	100	100
87.00	32.30	32.52
50.00	12.50	10.00
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4453.D  
Acq On : 18 Jan 2018 1:38 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 13:54:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 13:37:38 2018  
Response via : Initial Calibration



TIC: C4453.D\data.ms

(2) Dichlorodifluoromethane (P)

Manual Integration:

1.042min (+0.003) 3.62 ug/L

Before

response 11109

Ion	Exp%	Act%
85.00	100	100
87.00	32.30	32.52
50.00	12.50	10.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 13:55:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	236110	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	354884	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	316693	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	173996	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.529	113	23441	10.73	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	21.46%#		
47) SURR1,1,2-dichloroetha...	5.114	65	29356	10.38	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	20.76%#		
64) SURR3,Toluene-d8	7.949	98	89559	10.35	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	20.70%#		
69) SURR2,BFB	10.729	95	38118	11.29	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	22.58%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	13145m	4.29	ug/L	
3) Chloromethane	1.145	50	17581	4.55	ug/L	95
4) Vinyl Chloride	1.213	62	13716	4.39	ug/L	73
5) Bromomethane	1.408	94	9415	3.70	ug/L	93
6) Chloroethane	1.475	64	7434	3.85	ug/L	95
7) Freon 21	1.603	67	22404	4.49	ug/L	99
8) Trichlorofluoromethane	1.645	101	15880	4.20	ug/L	92
9) Diethyl Ether	1.847	59	10080	4.75	ug/L	95
10) Freon 123a	1.847	67	13489	4.70	ug/L	87
11) Freon 123	1.889	83	15274	4.70	ug/L	96
12) Acrolein	1.926	56	12985	26.05	ug/L	99
13) 1,1-Dicethene	2.005	96	9925	4.71	ug/L	96
14) Freon 113	2.011	101	10163	4.68	ug/L	97
15) Acetone	2.048	43	6465	4.38	ug/L	90
16) 2-Propanol	2.157	45	24883	113.43	ug/L	98
17) Iodomethane	2.115	142	3832	2.68	ug/L	98
18) Carbon Disulfide	2.170	76	33754	5.12	ug/L	96
19) Acetonitrile	2.261	40	3588	22.92	ug/L #	88
20) Allyl Chloride	2.285	76	4636	4.57	ug/L #	86
21) Methyl Acetate	2.310	43	10741	5.15	ug/L	92
22) Methylene Chloride	2.389	84	11763	4.68	ug/L #	85
23) TBA	2.505	59	44015	118.78	ug/L	93
24) Acrylonitrile	2.602	53	24056	23.77	ug/L	96
25) Methyl-t-Butyl Ether	2.651	73	38011	5.15	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	11713	4.91	ug/L	97
27) 1,1-Dicethane	3.066	63	20607	4.75	ug/L	94
28) Vinyl Acetate	3.151	86	3007	5.68	ug/L #	78
29) DIPE	3.182	45	40171	4.64	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.169	53	18065	4.77	ug/L	100
31) ETBE	3.639	59	39988	5.24	ug/L	92
32) 2,2-Dichloropropane	3.779	77	18764	5.62	ug/L	92
33) cis-1,2-Dichloroethene	3.785	96	12950	4.76	ug/L	95
34) 2-Butanone	3.828	43	8282	5.02	ug/L	95
35) Propionitrile	3.889	54	10026	24.21	ug/L	94
36) Bromochloromethane	4.127	130	8401	5.27	ug/L #	70
37) Methacrylonitrile	4.120	67	5761	5.15	ug/L	85
38) Tetrahydrofuran	4.218	42	4915	4.82	ug/L	97
39) Chloroform	4.273	83	20833	4.83	ug/L	94
40) 1,1,1-Trichloroethane	4.547	97	18319	5.20	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 13:55:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	38815	5.37	ug/L	98
43) Cyclohexane	4.645	41	12497	4.72	ug/L	88
45) Carbontetrachloride	4.840	121	5006	5.45	ug/L	98
46) 1,1-Dichloropropene	4.852	75	16247	4.88	ug/L	99
48) Benzene	5.218	78	45868	4.89	ug/L	97
49) 1,2-Dichloroethane	5.261	62	17694	4.85	ug/L	96
50) Iso-Butyl Alcohol	5.261	43	17225	110.96	ug/L	91
51) n-Heptane	5.803	43	13093	3.51	ug/L	99
52) 1-Butanol	6.370	56	26179	281.96	ug/L	98
53) Trichloroethene	6.303	130	12927	4.99	ug/L	95
54) Methylcyclohexane	6.571	55	16493	4.67	ug/L	94
55) 1,2-Diclpropane	6.608	63	12569	4.76	ug/L	97
56) Dibromomethane	6.766	93	7827	4.92	ug/L	97
57) 1,4-Dioxane	6.858	88	4141	103.29	ug/L	98
58) Methyl Methacrylate	6.894	69	10235	5.33	ug/L	90
59) Bromodichloromethane	7.028	83	15918	5.06	ug/L	96
60) 2-Nitropropane	7.333	41	7776	12.29	ug/L #	78
61) 2-Chloroethylvinyl Ether	7.498	63	4185	6.55	ug/L	91
62) cis-1,3-Dichloropropene	7.626	75	20686	5.36	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	15036	5.07	ug/L	97
65) Toluene	8.028	91	49896	4.84	ug/L	96
66) trans-1,3-Dichloropropene	8.333	75	18520	5.49	ug/L	96
67) Ethyl Methacrylate	8.510	69	17047	5.14	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	11473	5.13	ug/L	96
71) Tetrachloroethene	8.674	164	10183	4.87	ug/L	96
72) 2-Hexanone	8.876	43	10384	4.95	ug/L	94
73) 1,3-Dichloropropane	8.717	76	20261	5.10	ug/L	93
74) Dibromochloromethane	8.967	129	12083	5.28	ug/L	98
75) N-Butyl Acetate	9.059	43	23102	5.08	ug/L	94
76) 1,2-Dibromoethane	9.065	107	11319	5.19	ug/L	96
77) Chlorobenzene	9.613	112	33810	5.03	ug/L	96
78) 1,1,1,2-Tetrachloroethane	9.711	131	11953	5.28	ug/L	96
79) Ethylbenzene	9.754	106	18614	5.24	ug/L #	88
80) (m+p)Xylene	9.875	106	44730	9.98	ug/L	99
81) o-Xylene	10.253	106	21842	4.97	ug/L	99
82) Styrene	10.266	104	38075	5.17	ug/L	96
83) Bromoform	10.418	173	7902	5.55	ug/L	95
84) Isopropylbenzene	10.613	105	57405	5.05	ug/L	99
85) Cyclohexanone	10.662	55	54076	99.17	ug/L	96
86) trans-1,4-Dichloro-2-B...	10.936	53	4167	5.80	ug/L	82
88) 1,1,2,2-Tetrachloroethane	10.887	83	16403	5.18	ug/L	99
89) Bromobenzene	10.851	156	14966	5.07	ug/L	96
90) 1,2,3-Trichloropropane	10.906	110	5295	5.33	ug/L	92
91) n-Propylbenzene	10.985	91	65935	4.86	ug/L	100
92) 2-Chlorotoluene	11.040	91	39604	4.99	ug/L	99
93) 4-Chlorotoluene	11.137	91	46812	4.85	ug/L	97
94) 1,3,5-Trimethylbenzene	11.144	105	47327	4.87	ug/L	97
95) tert-Butylbenzene	11.424	119	42208	5.03	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	47288	4.87	ug/L	93
97) sec-Butylbenzene	11.613	105	62120	4.93	ug/L	99
98) p-Isopropyltoluene	11.741	119	52060	4.83	ug/L	98
99) 1,3-Dclbenz	11.686	146	28107	4.84	ug/L	96
100) 1,4-Dclbenz	11.759	146	28999	4.85	ug/L	96
101) n-Butylbenzene	12.082	91	47003	4.53	ug/L	96
102) 1,2-Dclbenz	12.070	146	28353	5.06	ug/L	97
103) 1,2-Dibromo-3-chloropr...	12.704	157	3546	5.84	ug/L	90

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4453.D  
 Acq On : 18 Jan 2018 1:38 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 18 13:55:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 13:37:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	22358	4.74	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	21691	4.95	ug/L	98
106) Hexachlorobt	13.515	225	11301	4.78	ug/L	94
107) Naphthalen	13.552	128	52145	5.23	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	20864	5.22	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

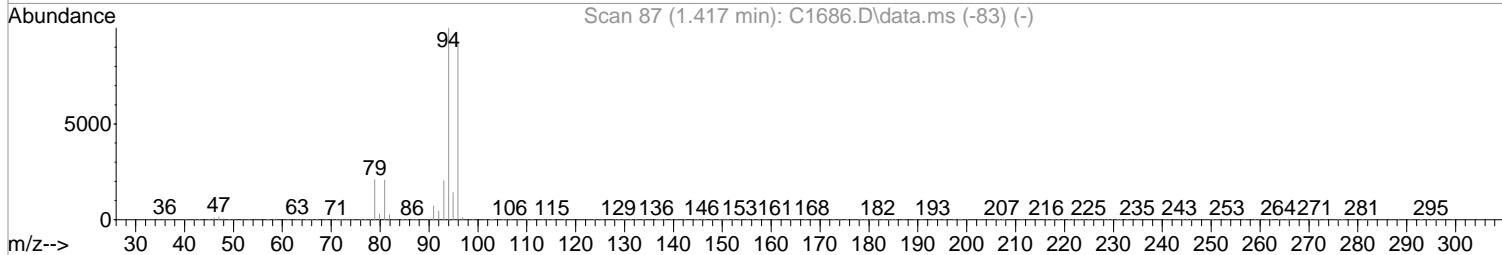
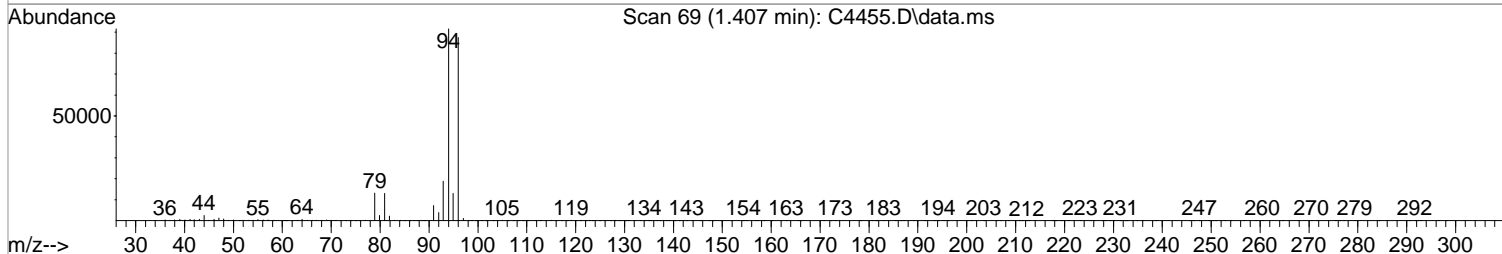
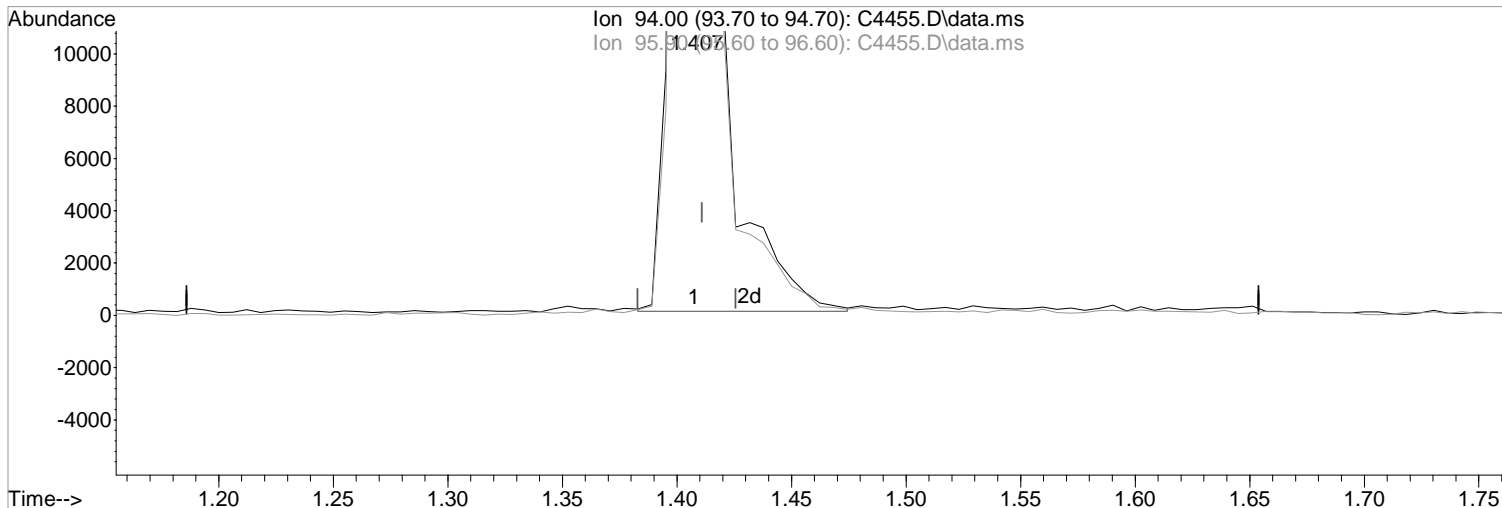




Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4455.D  
Acq On : 18 Jan 2018 2:24 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 14:50:08 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:18:11 2018  
Response via : Initial Calibration



TIC: C4455.D\data.ms

(5) Bromomethane (P)

1.407min (-0.004) 36.02 ug/L m

response 85438

Ion	Exp%	Act%
94.00	100	100
95.90	92.60	95.43
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

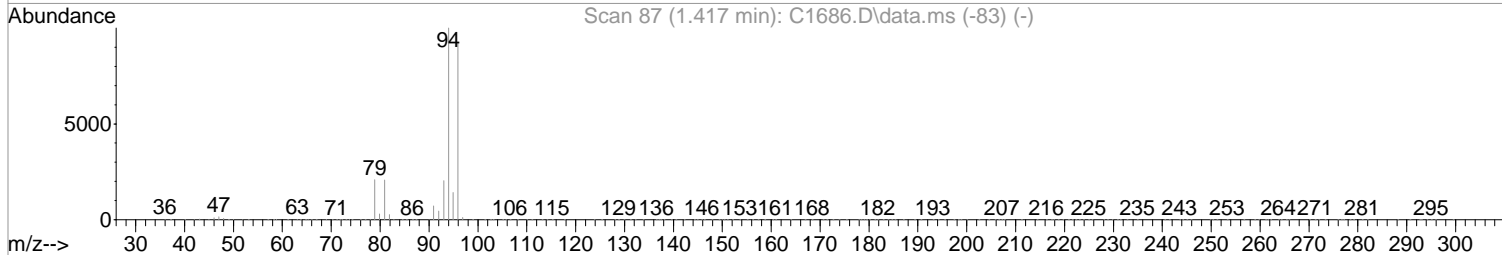
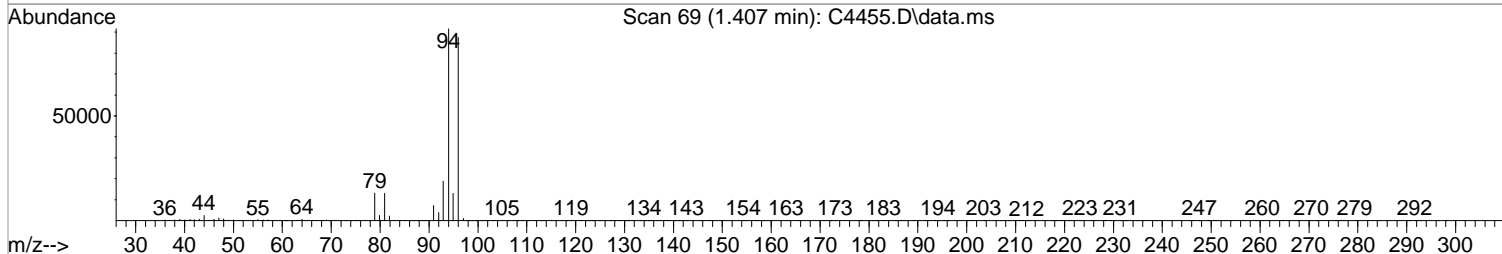
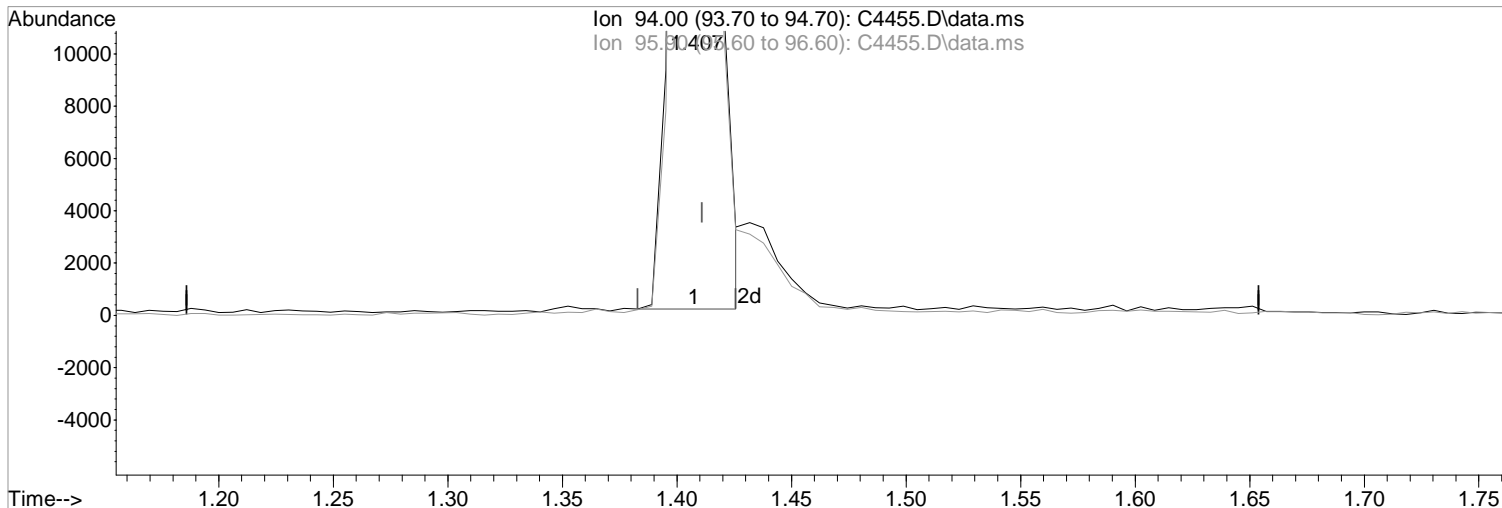
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4455.D  
Acq On : 18 Jan 2018 2:24 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 14:50:08 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:18:11 2018  
Response via : Initial Calibration



TIC: C4455.D\data.ms

(5) Bromomethane (P)  
1.407min (-0.004) 34.21 ug/L  
response 81149

Manual Integration:  
Before

Ion	Exp%	Act%
94.00	100	100
95.90	92.60	95.43
0.00	0.00	0.00
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4455.D  
 Acq On : 18 Jan 2018 2:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 14:50:56 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:18:11 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	243855	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	366076	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	326764	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	173182	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	114715	49.30	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	98.60%		
47) SURR1,1,2-dichloroetha...	5.120	65	136985	47.68	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	95.36%		
64) SURR3,Toluene-d8	7.949	98	442394	49.67	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	99.34%		
69) SURR2,BFB	10.735	95	177148	49.96	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	99.92%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	158259	50.57	ug/L	99
3) Chloromethane	1.151	50	178416	44.61	ug/L	99
4) Vinyl Chloride	1.212	62	140105	44.73	ug/L	95
5) Bromomethane	1.407	94	85438m	36.02	ug/L	
6) Chloroethane	1.474	64	85475	43.90	ug/L	97
7) Freon 21	1.602	67	219524	44.62	ug/L	99
8) Trichlorofluoromethane	1.645	101	159567	43.35	ug/L	98
9) Diethyl Ether	1.846	59	104205	47.64	ug/L	96
10) Freon 123a	1.846	67	134445	47.39	ug/L	91
11) Freon 123	1.889	83	154063	47.91	ug/L	99
12) Acrolein	1.932	56	126788	238.40	ug/L	97
13) 1,1-Diclcethene	2.005	96	101310	46.78	ug/L	92
14) Freon 113	2.011	101	99865	46.07	ug/L	99
15) Acetone	2.041	43	56262	36.91	ug/L	92
16) 2-Propanol	2.157	45	255259	1047.02	ug/L	96
17) Iodomethane	2.121	142	74915	49.80	ug/L	98
18) Carbon Disulfide	2.175	76	333956	46.81	ug/L	99
19) Acetonitrile	2.255	40	39965	247.73	ug/L	97
20) Allyl Chloride	2.291	76	48671	45.70	ug/L	96
21) Methyl Acetate	2.310	43	104718	47.84	ug/L	99
22) Methylene Chloride	2.389	84	117220	45.30	ug/L	92
23) TBA	2.505	59	447638	1058.78	ug/L	89
24) Acrylonitrile	2.602	53	252525	241.32	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	388192	49.41	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	113900	45.97	ug/L	99
27) 1,1-Diclcethane	3.066	63	205313	46.09	ug/L	98
28) Vinyl Acetate	3.151	86	28703	49.05	ug/L #	82
29) DIPE	3.187	45	403683	45.80	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	177947	44.88	ug/L	98
31) ETBE	3.639	59	397334	48.90	ug/L	97
32) 2,2-Dichloropropane	3.779	77	181094	49.21	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	132377	46.92	ug/L	92
34) 2-Butanone	3.828	43	72568	41.61	ug/L	96
35) Propionitrile	3.889	54	102584	238.98	ug/L	98
36) Bromochloromethane	4.126	130	79046	47.41	ug/L #	86
37) Methacrylonitrile	4.120	67	56512	48.62	ug/L	99
38) Tetrahydrofuran	4.212	42	46429	43.70	ug/L	93
39) Chloroform	4.279	83	207889	46.57	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	184155	49.44	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4455.D  
 Acq On : 18 Jan 2018 2:24 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 14:50:56 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:18:11 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	383889	49.37	ug/L	98
43) Cyclohexane	4.645	41	120268	46.43	ug/L	93
45) Carbontetrachloride	4.846	121	48543	49.33	ug/L	98
46) 1,1-Dichloropropene	4.852	75	156341	46.11	ug/L	95
48) Benzene	5.218	78	452823	46.85	ug/L	98
49) 1,2-Dichloroethane	5.260	62	173621	46.19	ug/L	96
50) Iso-Butyl Alcohol	5.260	43	182538	1045.66	ug/L	93
51) n-Heptane	5.803	43	152234	42.33	ug/L	98
52) 1-Butanol	6.376	56	290502	2742.21	ug/L	93
53) Trichloroethene	6.303	130	123753	46.60	ug/L	96
54) Methylcyclohexane	6.571	55	164948	46.63	ug/L	97
55) 1,2-Diclpropane	6.614	63	123634	45.61	ug/L	94
56) Dibromomethane	6.766	93	78128	47.77	ug/L	98
57) 1,4-Dioxane	6.851	88	43186	1018.59	ug/L	92
58) Methyl Methacrylate	6.894	69	102776	49.71	ug/L	96
59) Bromodichloromethane	7.028	83	163516	48.88	ug/L	96
60) 2-Nitropropane	7.339	41	77887	115.17	ug/L	92
61) 2-Chloroethylvinyl Ether	7.492	63	48586	64.21	ug/L	89
62) cis-1,3-Dichloropropene	7.632	75	210538	49.91	ug/L	97
63) 4-Methyl-2-pentanone	7.870	43	146382	46.63	ug/L	97
65) Toluene	8.028	91	499043	47.25	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	196323	51.91	ug/L	97
67) Ethyl Methacrylate	8.510	69	185082	51.17	ug/L	94
68) 1,1,2-Trichloroethane	8.534	97	113033	48.32	ug/L	97
71) Tetrachloroethene	8.674	164	100276	47.06	ug/L	98
72) 2-Hexanone	8.875	43	110843	48.99	ug/L	96
73) 1,3-Dichloropropane	8.717	76	196291	47.72	ug/L	96
74) Dibromochloromethane	8.967	129	130985	51.97	ug/L	99
75) N-Butyl Acetate	9.058	43	250492	50.66	ug/L	98
76) 1,2-Dibromoethane	9.064	107	118513	50.71	ug/L	97
77) Chlorobenzene	9.613	112	340481	48.70	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	123951	50.51	ug/L	97
79) Ethylbenzene	9.753	106	176848	48.00	ug/L	98
80) (m+p)Xylene	9.875	106	445475	96.02	ug/L	99
81) o-Xylene	10.253	106	222052	48.82	ug/L	91
82) Styrene	10.265	104	388923	49.69	ug/L	97
83) Bromoform	10.418	173	90070	56.12	ug/L	99
84) Isopropylbenzene	10.613	105	577081	49.10	ug/L	100
85) Cyclohexanone	10.662	55	525839	897.31	ug/L	97
86) trans-1,4-Dichloro-2-B...	10.936	53	42665	52.23	ug/L #	67
88) 1,1,2,2-Tetrachloroethane	10.887	83	167092	51.63	ug/L	99
89) Bromobenzene	10.851	156	150136	50.91	ug/L	93
90) 1,2,3-Trichloropropane	10.905	110	53665	52.55	ug/L	92
91) n-Propylbenzene	10.985	91	655063	48.95	ug/L	99
92) 2-Chlorotoluene	11.040	91	392490	49.61	ug/L	99
93) 4-Chlorotoluene	11.137	91	468111	48.37	ug/L	99
94) 1,3,5-Trimethylbenzene	11.149	105	477410	49.29	ug/L	98
95) tert-Butylbenzene	11.424	119	425371	51.06	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	487812	50.04	ug/L	96
97) sec-Butylbenzene	11.613	105	616393	49.59	ug/L	99
98) p-Isopropyltoluene	11.741	119	525769	49.32	ug/L	98
99) 1,3-Dclbenz	11.686	146	284766	49.33	ug/L	98
100) 1,4-Dclbenz	11.765	146	293016	48.99	ug/L	98
101) n-Butylbenzene	12.082	91	480463	47.30	ug/L	97
102) 1,2-Dclbenz	12.070	146	281312	49.97	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	40792	60.37	ug/L	89

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4455.D  
Acq On : 18 Jan 2018 2:24 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD Inst : MSVOA14  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 18 14:50:56 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:18:11 2018  
Response via : Initial Calibration

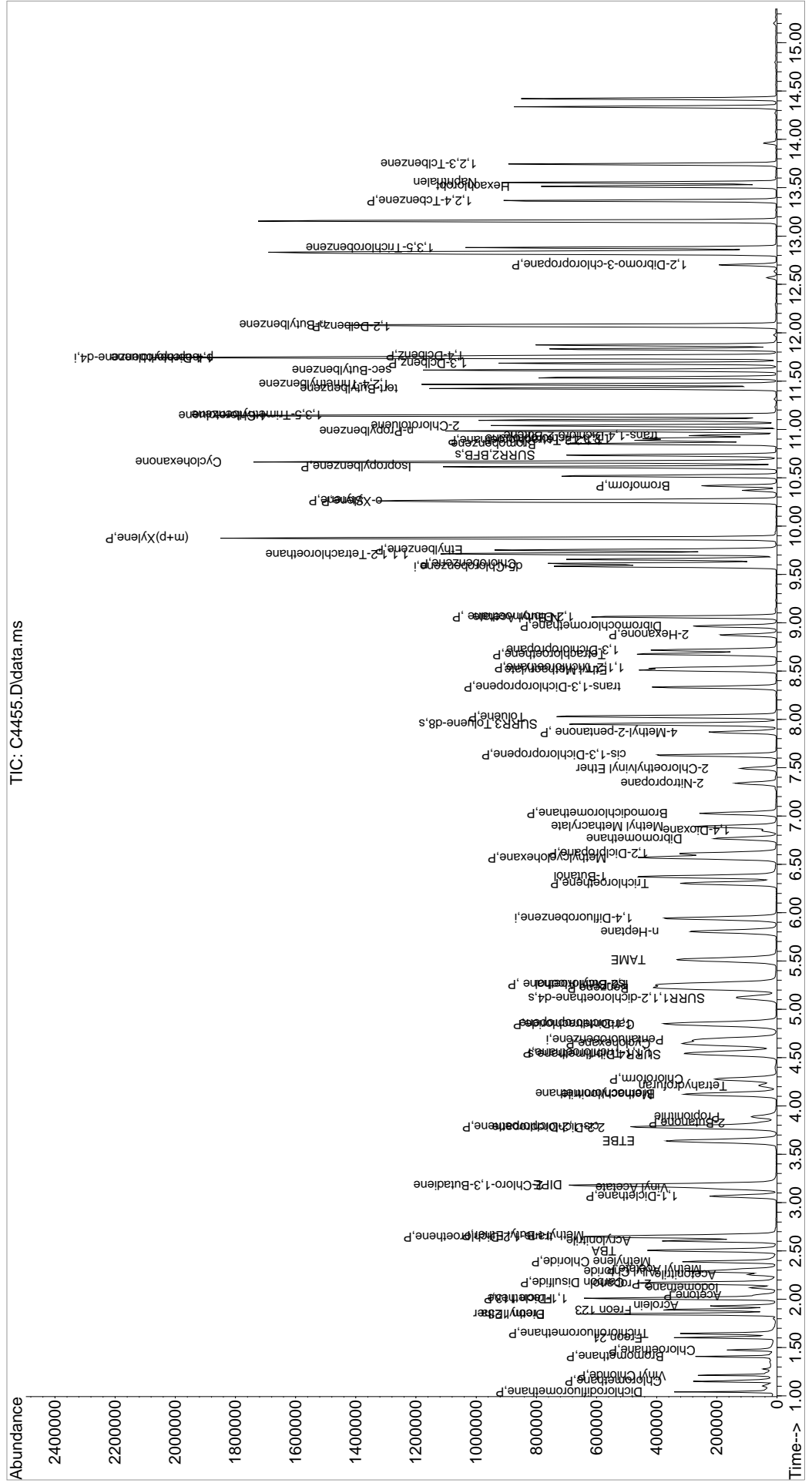
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	224652	48.00	ug/L	99
105) 1,2,4-Tcbenzene	13.368	180	213685	48.74	ug/L	97
106) Hexachlorobt	13.515	225	116637	50.06	ug/L	98
107) Naphthalen	13.557	128	544813	52.60	ug/L	99
108) 1,2,3-Tclbenzene	13.746	180	203443	50.05	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
Data File : C4455.D  
Acq On : 18 Jan 2018 2:24 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

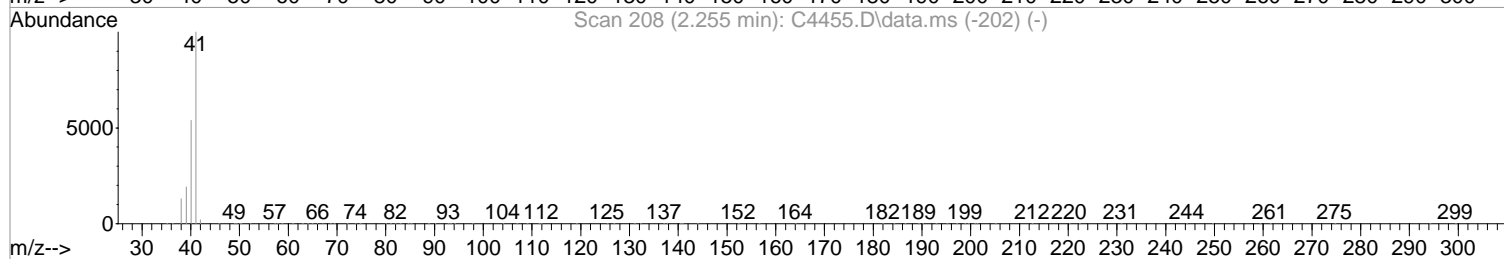
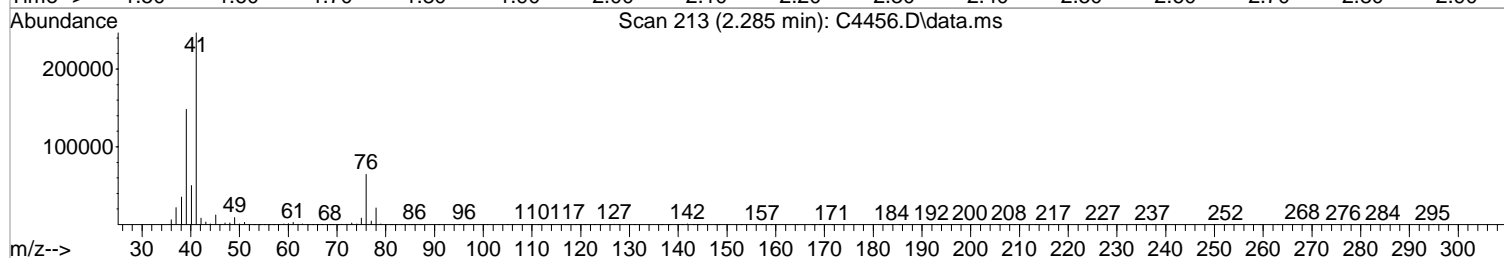
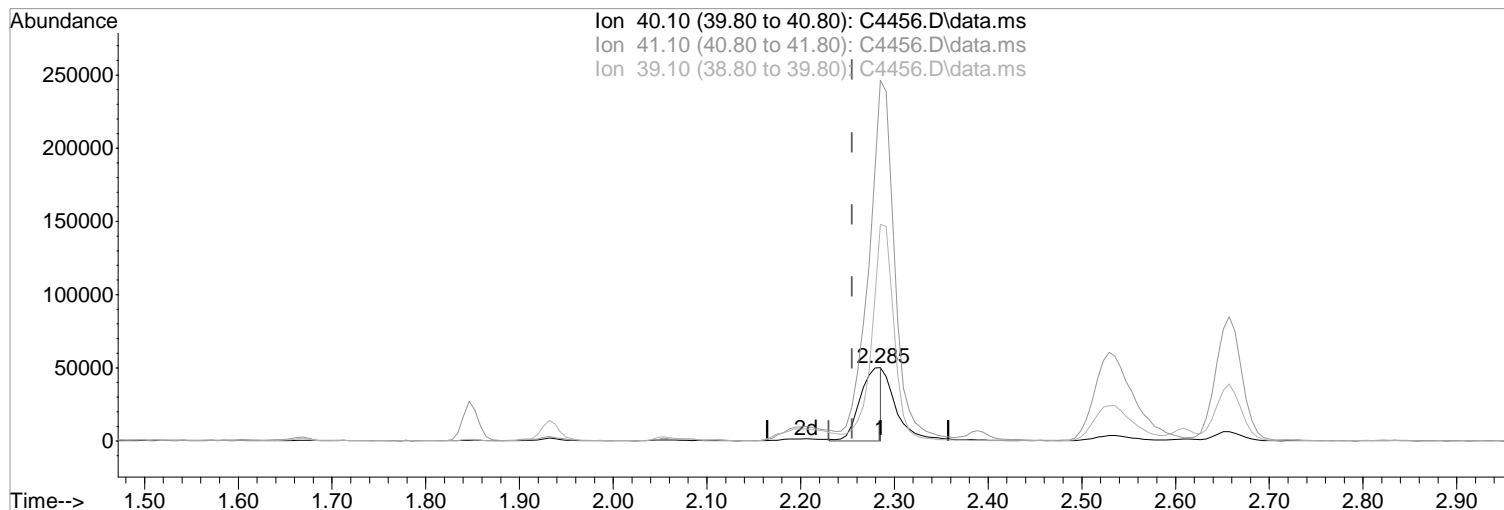
Quant Time: Jan 18 14:50:56 2018  
Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:18:11 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:04:03 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(19) Acetonitrile

2.285min (+0.030) 494.10 ug/L m

response 81121

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	491.04#
39.10	36.10	294.80#
0.00	0.00	0.00

Manual Integration:

After

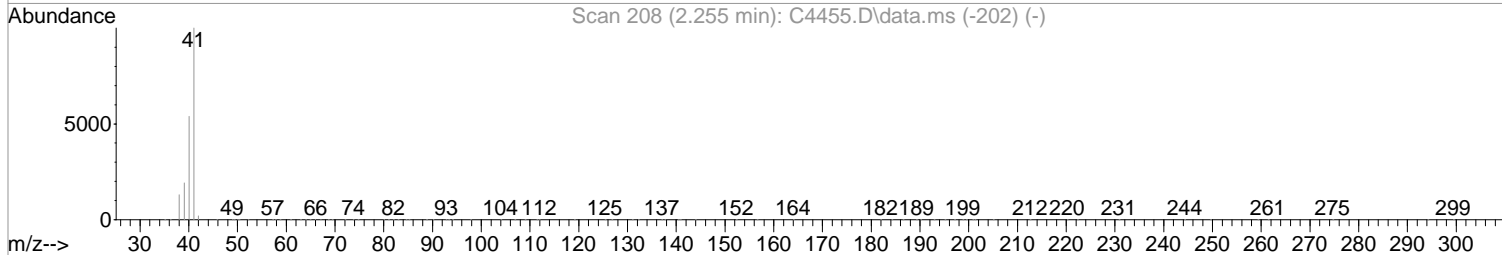
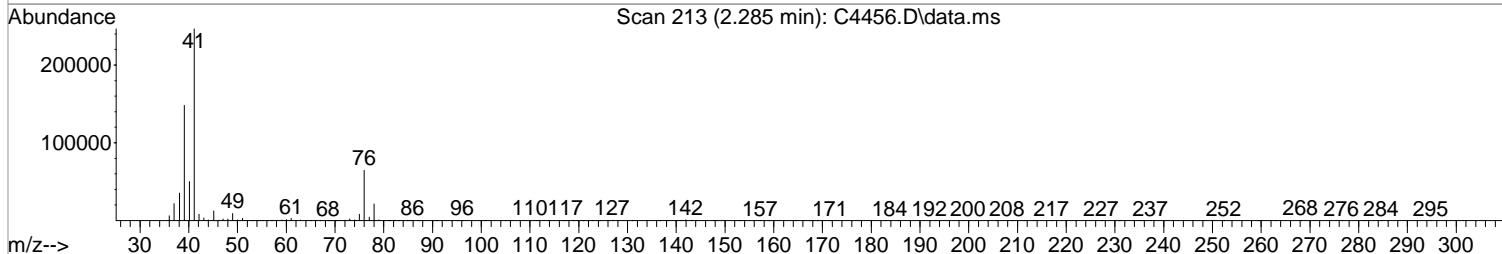
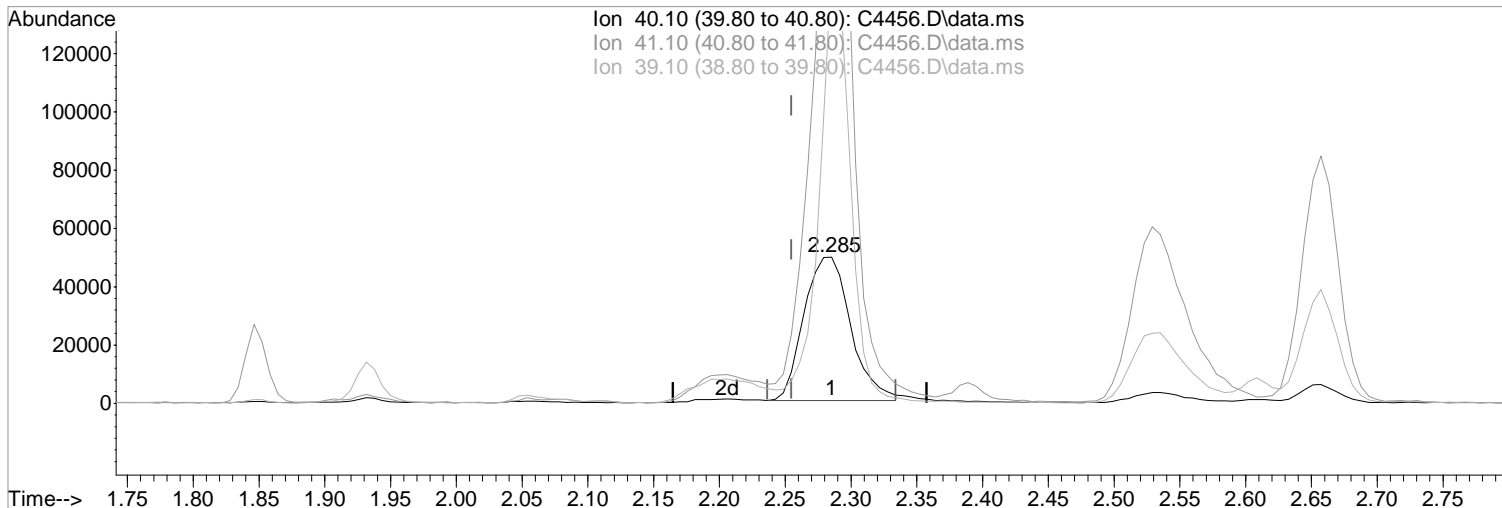
Poor integration.

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:03:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.030) 740.40 ug/L  
response 121559

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	491.04#
39.10	36.10	294.80#
0.00	0.00	0.00

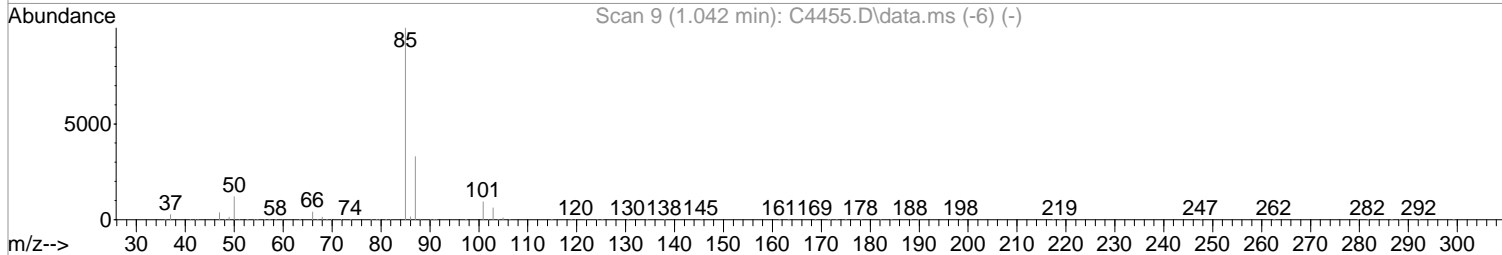
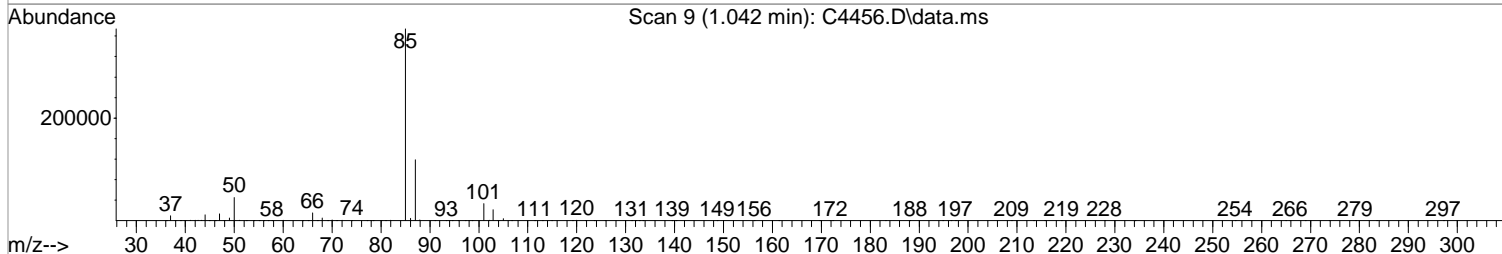
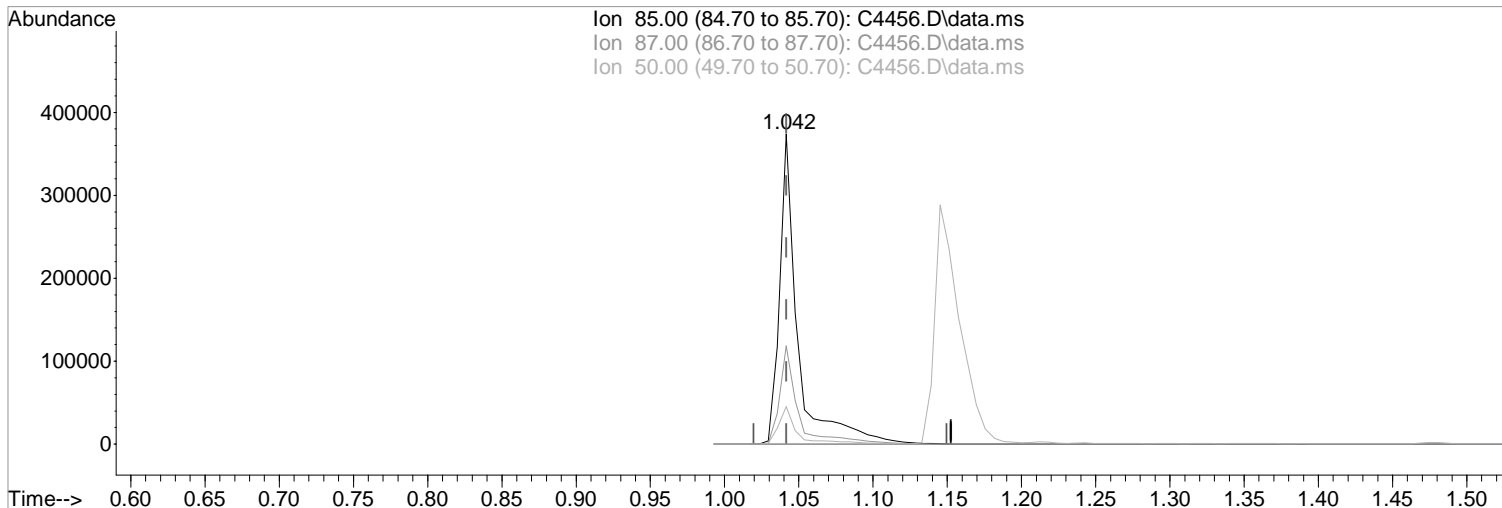
01/18/18



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:03:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



TIC: C4456.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (0.000) 107.23 ug/L m  
response 321377

Manual Integration:

After

Poor integration.

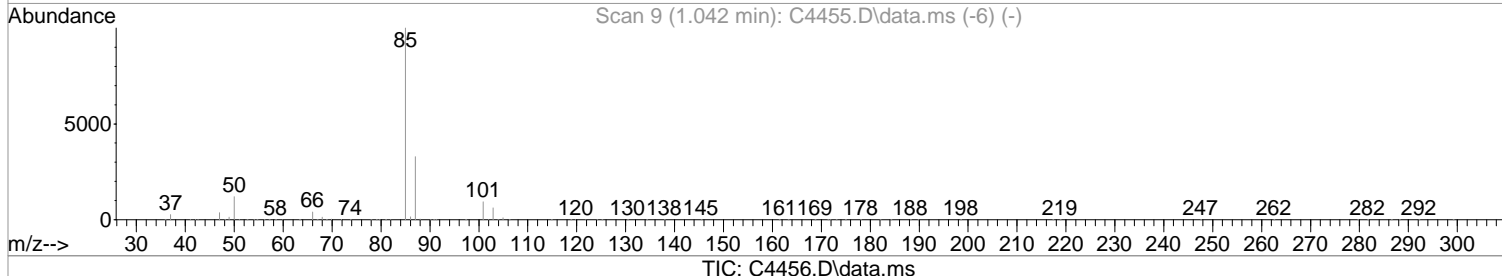
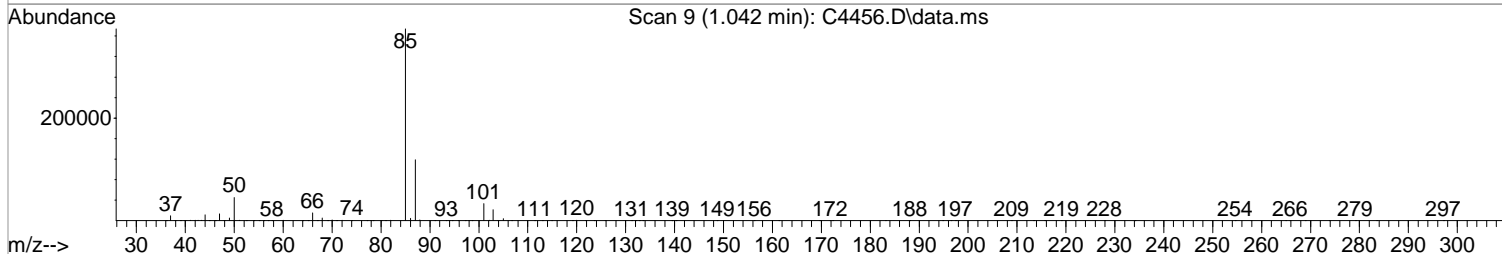
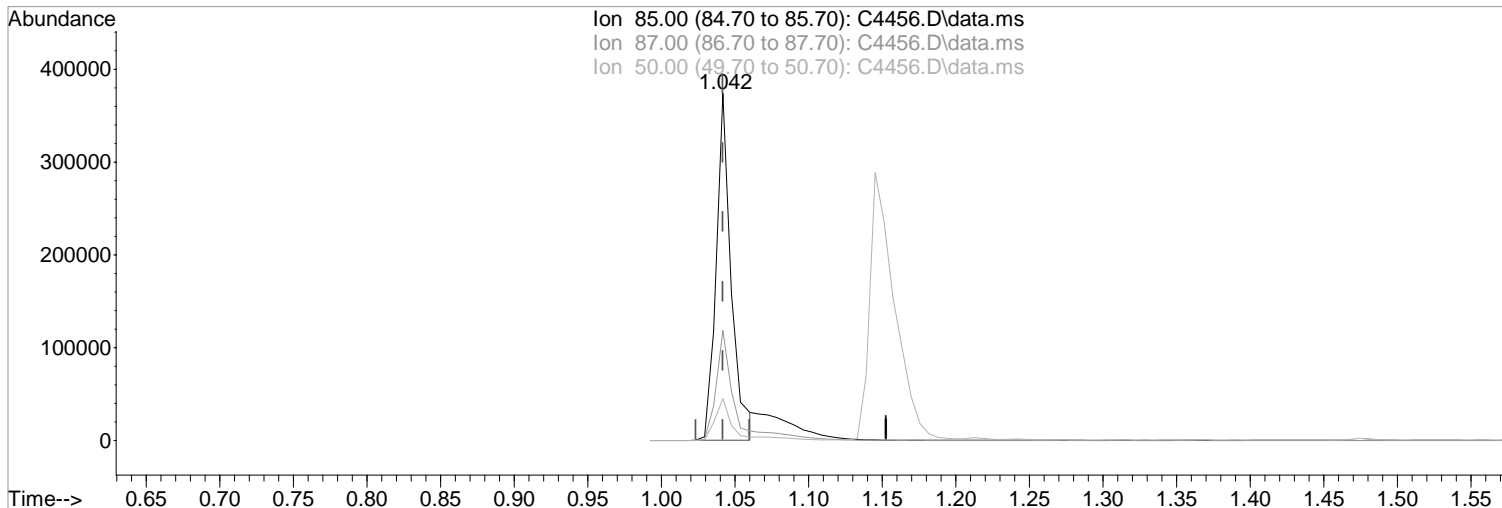
01/18/18

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	31.67
50.00	12.10	12.04
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4456.D  
Acq On : 18 Jan 2018 2:48 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:03:14 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 14:54:00 2018  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

Manual Integration:

1.042min (0.000) 88.45 ug/L

Before

response 265083

Ion	Exp%	Act%
85.00	100	100
87.00	32.80	31.67
50.00	12.10	12.04
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	242978	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	365887	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	324709	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	175018	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	235988	104.06	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	208.12%#		
47) SURR1,1,2-dichloroetha...	5.120	65	275663	99.10	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	198.20%#		
64) SURR3,Toluene-d8	7.949	98	885726	101.78	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	203.56%#		
69) SURR2,BFB	10.735	95	345373	94.86	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	189.72%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	321377m	107.23	ug/L	
3) Chloromethane	1.145	50	338039	82.71	ug/L	99
4) Vinyl Chloride	1.212	62	282781	98.54	ug/L	100
5) Bromomethane	1.420	94	145496	70.57	ug/L	98
6) Chloroethane	1.474	64	134310	76.91	ug/L	99
7) Freon 21	1.602	67	422720	98.17	ug/L	99
8) Trichlorofluoromethane	1.645	101	312489	93.54	ug/L	100
9) Diethyl Ether	1.846	59	211675	100.45	ug/L	99
10) Freon 123a	1.846	67	271644	101.51	ug/L	100
11) Freon 123	1.889	83	311161	101.78	ug/L	98
12) Acrolein	1.932	56	265099	501.10	ug/L	100
13) 1,1-Diclcethene	2.005	96	207770	97.51	ug/L	99
14) Freon 113	2.011	101	204307	98.42	ug/L	100
15) Acetone	2.054	43	100250	56.43	ug/L	95
16) 2-Propanol	2.200	45	517360	2040.54	ug/L	98
17) Iodomethane	2.121	142	224029	213.82	ug/L	97
18) Carbon Disulfide	2.175	76	667114	90.08	ug/L	99
19) Acetonitrile	2.285	40	81121m	494.10	ug/L	
20) Allyl Chloride	2.291	76	100243	95.54	ug/L	# 88
21) Methyl Acetate	2.316	43	211486	100.41	ug/L	97
22) Methylene Chloride	2.389	84	236472	90.45	ug/L	99
23) TBA	2.529	59	868711	1856.52	ug/L	100
24) Acrylonitrile	2.608	53	503192	502.34	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	776161	97.97	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	229204	92.69	ug/L	98
27) 1,1-Diclcethane	3.066	63	413169	95.56	ug/L	99
28) Vinyl Acetate	3.151	86	63964	107.74	ug/L	97
29) DIPE	3.187	45	819324	99.94	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.175	53	360872	91.71	ug/L	100
31) ETBE	3.639	59	808248	98.68	ug/L	99
32) 2,2-Dichloropropane	3.779	77	362826	92.89	ug/L	100
33) cis-1,2-Dichloroethene	3.785	96	266384	93.93	ug/L	100
34) 2-Butanone	3.834	43	143994	82.14	ug/L	97
35) Propionitrile	3.901	54	205154	483.49	ug/L	97
36) Bromochloromethane	4.120	130	157708	91.25	ug/L	96
37) Methacrylonitrile	4.126	67	111653	94.99	ug/L	94
38) Tetrahydrofuran	4.218	42	92034	85.25	ug/L	98
39) Chloroform	4.279	83	419819	95.16	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	372916	100.32	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	779800	98.39	ug/L	99
43) Cyclohexane	4.645	41	241085	103.56	ug/L	99
45) Carbontetrachloride	4.846	121	100917	99.03	ug/L	99
46) 1,1-Dichloropropene	4.852	75	318926	97.09	ug/L	97
48) Benzene	5.224	78	913705	94.39	ug/L	99
49) 1,2-Dichloroethane	5.260	62	346326	93.16	ug/L	100
50) Iso-Butyl Alcohol	5.291	43	367503	2030.83	ug/L	99
51) n-Heptane	5.803	43	309257	96.10	ug/L	98
52) 1-Butanol	6.406	56	600876	5673.26	ug/L	99
53) Trichloroethene	6.303	130	249762	92.61	ug/L	98
54) Methylcyclohexane	6.571	55	323338	95.69	ug/L	100
55) 1,2-Diclpropane	6.614	63	250864	94.87	ug/L	96
56) Dibromomethane	6.766	93	159172	98.87	ug/L	98
57) 1,4-Dioxane	6.888	88	85051	1971.93	ug/L	85
58) Methyl Methacrylate	6.894	69	205230	97.50	ug/L	97
59) Bromodichloromethane	7.028	83	329666	97.56	ug/L	99
60) 2-Nitropropane	7.339	41	160238	213.75	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	90739	108.15	ug/L	99
62) cis-1,3-Dichloropropene	7.632	75	423609	99.29	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	298437	97.85	ug/L	98
65) Toluene	8.028	91	1004685	96.23	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	398650	101.87	ug/L	99
67) Ethyl Methacrylate	8.510	69	373888	102.27	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	225042	94.48	ug/L	99
71) Tetrachloroethene	8.680	164	200456	93.09	ug/L	98
72) 2-Hexanone	8.875	43	221844	102.46	ug/L	99
73) 1,3-Dichloropropane	8.717	76	394927	96.37	ug/L	100
74) Dibromochloromethane	8.967	129	265348	102.47	ug/L	99
75) N-Butyl Acetate	9.058	43	485781	98.02	ug/L	99
76) 1,2-Dibromoethane	9.064	107	238149	100.45	ug/L	100
77) Chlorobenzene	9.613	112	677008	95.30	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	250194	98.69	ug/L	98
79) Ethylbenzene	9.753	106	353328	95.45	ug/L	97
80) (m+p)Xylene	9.875	106	887166	191.27	ug/L	99
81) o-Xylene	10.253	106	439549	95.54	ug/L	98
82) Styrene	10.271	104	768004	96.91	ug/L	97
83) Bromoform	10.418	173	178963	105.59	ug/L	100
84) Isopropylbenzene	10.613	105	1153568	98.22	ug/L	100
85) Cyclohexanone	10.668	55	1008190	1842.27	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.936	53	84054	97.76	ug/L	98
88) 1,1,2,2-Tetrachloroethane	10.887	83	325487	96.89	ug/L	100
89) Bromobenzene	10.851	156	296118	94.74	ug/L	99
90) 1,2,3-Trichloropropane	10.912	110	102751	93.98	ug/L	91
91) n-Propylbenzene	10.985	91	1297185	97.11	ug/L	100
92) 2-Chlorotoluene	11.040	91	776538	95.21	ug/L	100
93) 4-Chlorotoluene	11.137	91	918934	93.77	ug/L	99
94) 1,3,5-Trimethylbenzene	11.149	105	944965	96.05	ug/L	99
95) tert-Butylbenzene	11.424	119	843285	98.29	ug/L	100
96) 1,2,4-Trimethylbenzene	11.466	105	959663	95.61	ug/L	99
97) sec-Butylbenzene	11.613	105	1237627	99.22	ug/L	99
98) p-Isopropyltoluene	11.741	119	1050139	97.49	ug/L	100
99) 1,3-Dclbenz	11.686	146	557433	92.28	ug/L	99
100) 1,4-Dclbenz	11.765	146	560244	89.16	ug/L	98
101) n-Butylbenzene	12.082	91	948995	96.08	ug/L	100
102) 1,2-Dclbenz	12.070	146	552595	93.32	ug/L	97
103) 1,2-Dibromo-3-chloropr...	12.704	157	80116	107.25	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration

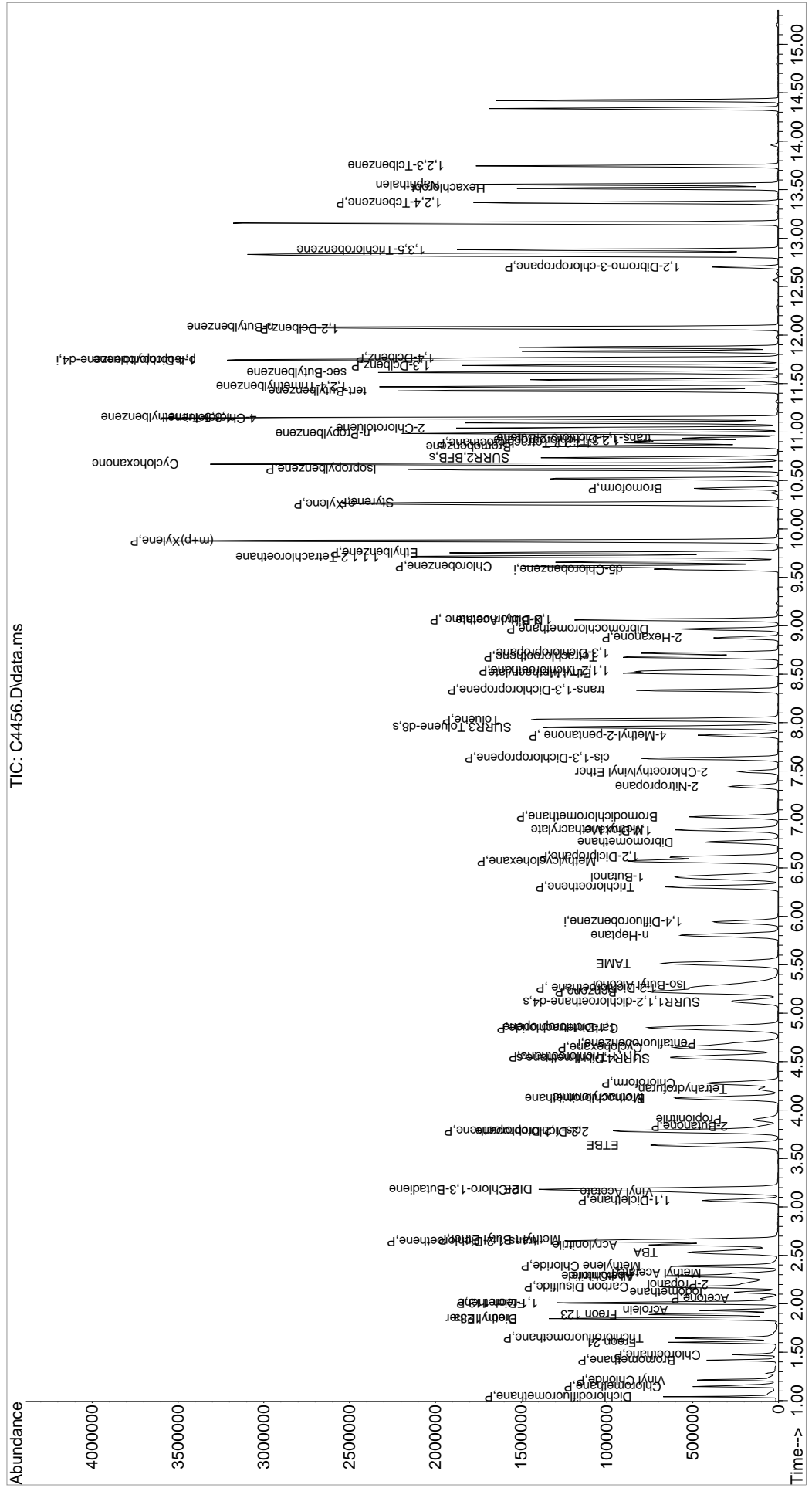
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	424924	87.65	ug/L	100
105) 1,2,4-Tcbenzene	13.368	180	413011	89.90	ug/L	99
106) Hexachlorobt	13.515	225	223658	93.11	ug/L	100
107) Naphthalen	13.551	128	1062951	96.55	ug/L	98
108) 1,2,3-Tclbenzene	13.746	180	394044	91.00	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
 Data File : C4456.D  
 Acq On : 18 Jan 2018 2:48 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

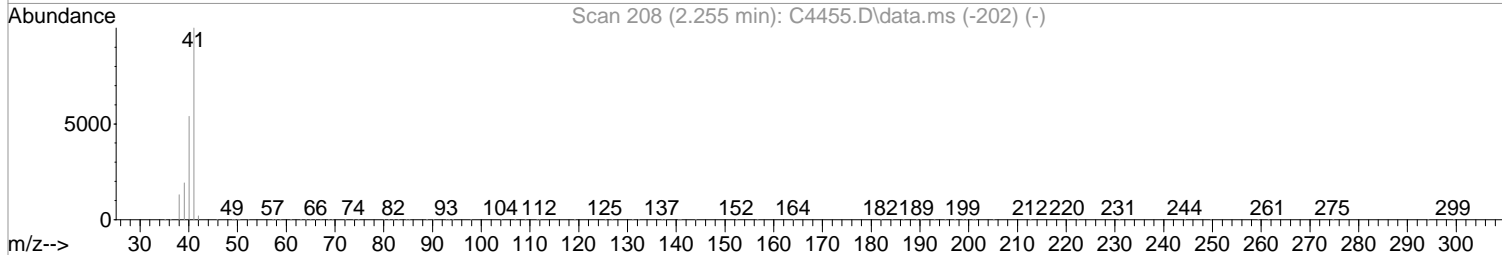
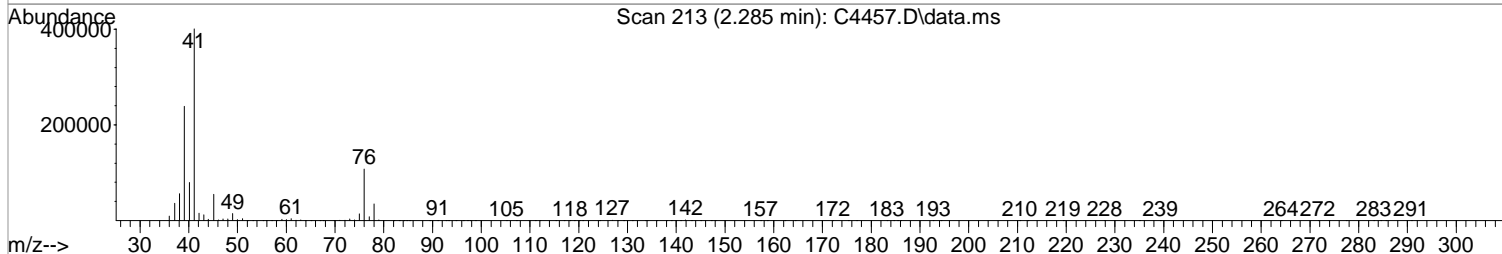
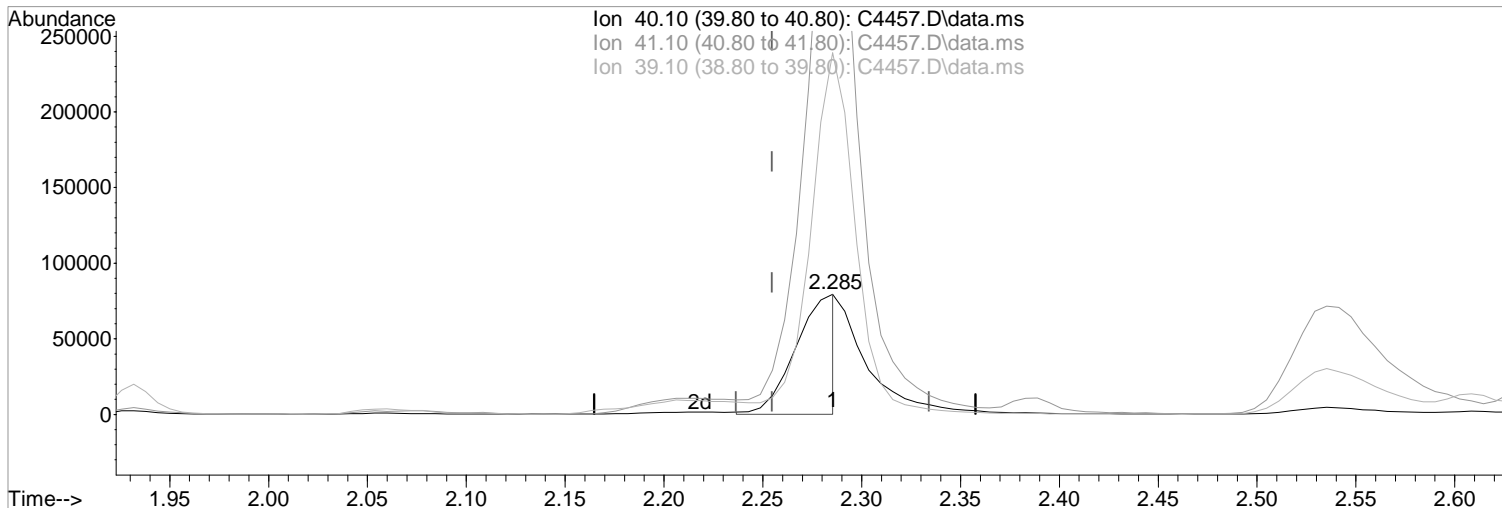
Quant Time: Jan 18 16:13:12 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 14:54:00 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:37:15 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration



(19) Acetonitrile  
 2.285min (+0.031) 724.47 ug/L m  
 response 113266

Manual Integration:  
 After  
 Poor integration.

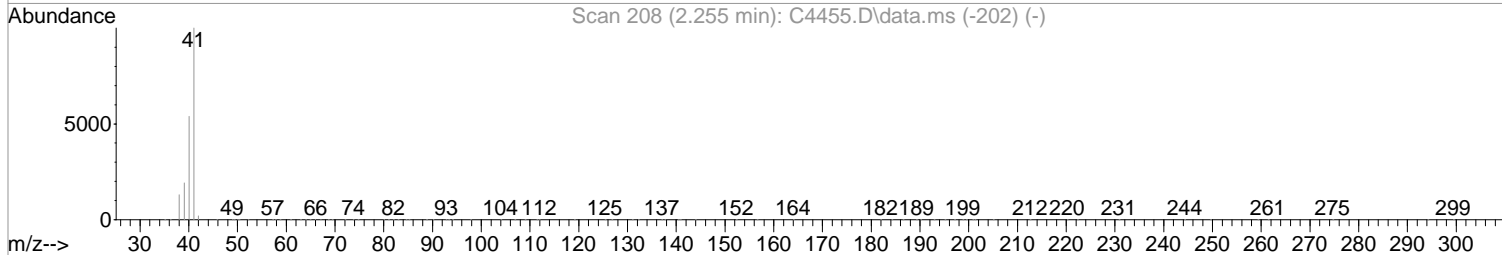
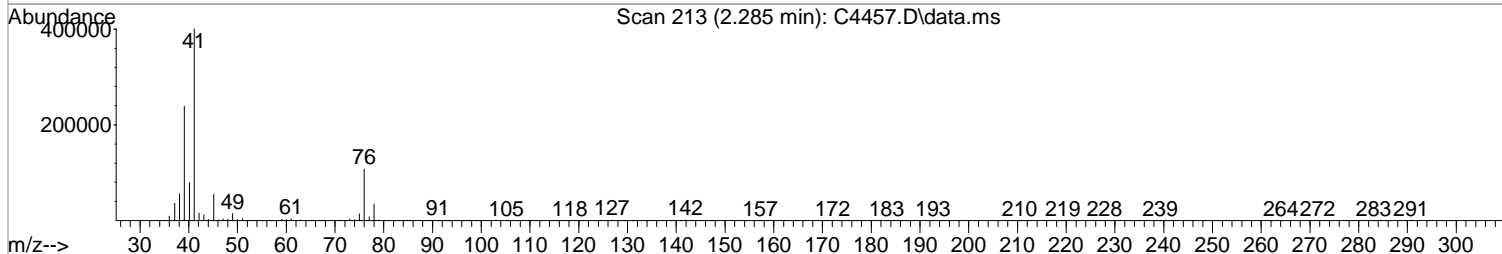
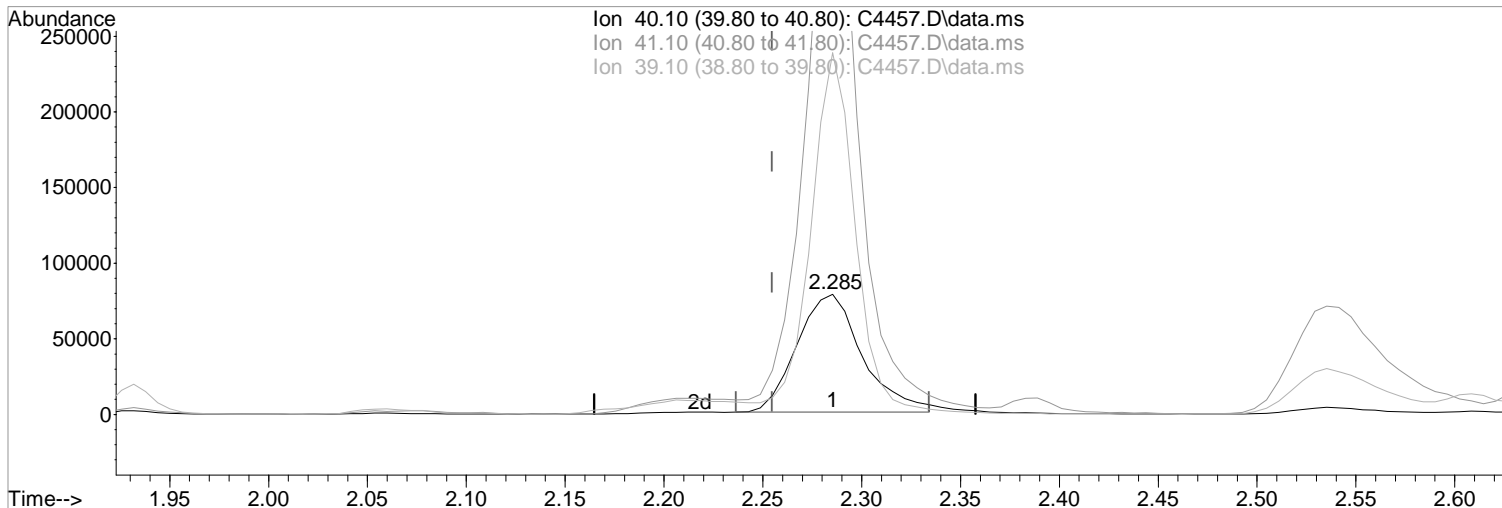
Ion	Exp%	Act%
40.10	100	100
41.10	184.50	503.77#
39.10	36.10	300.65#
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4457.D  
Acq On : 18 Jan 2018 3:11 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:37:15 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:05:19 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.285min (+0.031) 1141.33 ug/L  
response 178439

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	503.77#
39.10	36.10	300.65#
0.00	0.00	0.00

01/18/18



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	240960	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	362266	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	324682	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.741	152	171752	50.00	ug/L	0.00

System Monitoring Compounds						
44) SURR4,Dibrflmethane	4.535	113	451819	199.20	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	398.40%#		
47) SURR1,1,2-dichloroetha...	5.120	65	521105	189.64	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	379.28%#		
64) SURR3,Toluene-d8	7.949	98	1704691	196.97	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	393.94%#		
69) SURR2,BFB	10.735	95	660737	185.68	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	371.36%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	516309	171.64	ug/L	99
3) Chloromethane	1.145	50	526763	133.82	ug/L	100
4) Vinyl Chloride	1.212	62	450050	158.53	ug/L	99
5) Bromomethane	1.414	94	228654	117.60	ug/L	98
6) Chloroethane	1.475	64	191857	115.21	ug/L	98
7) Freon 21	1.596	67	649107	152.47	ug/L	99
8) Trichlorofluoromethane	1.639	101	496210	151.41	ug/L	100
9) Diethyl Ether	1.846	59	323662	154.76	ug/L	98
10) Freon 123a	1.840	67	426312	160.24	ug/L	96
11) Freon 123	1.889	83	490672	161.37	ug/L	98
12) Acrolein	1.932	56	402580	767.07	ug/L	99
13) 1,1-Dicethene	2.005	96	333396	158.44	ug/L	96
14) Freon 113	2.011	101	336893	164.08	ug/L	95
15) Acetone	2.054	43	161417	98.80	ug/L	95
16) 2-Propanol	2.218	45	761819	3019.69	ug/L	98
17) Iodomethane	2.115	142	389211	314.86	ug/L	98
18) Carbon Disulfide	2.170	76	1098848	152.13	ug/L	99
19) Acetonitrile	2.285	40	113266m	724.47	ug/L	
20) Allyl Chloride	2.285	76	155418	150.49	ug/L #	80
21) Methyl Acetate	2.316	43	325369	155.66	ug/L	98
22) Methylene Chloride	2.389	84	370903	145.37	ug/L	98
23) TBA	2.535	59	1265217	2759.53	ug/L	99
24) Acrylonitrile	2.608	53	735445	739.77	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	1164561	148.72	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	365452	150.86	ug/L	99
27) 1,1-Dicethane	3.066	63	652519	153.32	ug/L	99
28) Vinyl Acetate	3.145	86	95130	159.51	ug/L #	92
29) DIPE	3.182	45	1296316	159.46	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.169	53	575335	149.50	ug/L	100
31) ETBE	3.639	59	1280747	158.03	ug/L	99
32) 2,2-Dichloropropane	3.779	77	583573	152.46	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	414921	149.04	ug/L	97
34) 2-Butanone	3.834	43	222794	132.09	ug/L	98
35) Propionitrile	3.907	54	301216	719.79	ug/L	94
36) Bromochloromethane	4.120	130	241636	143.07	ug/L	98
37) Methacrylonitrile	4.120	67	163173	141.16	ug/L	95
38) Tetrahydrofuran	4.218	42	131926	126.33	ug/L	96
39) Chloroform	4.279	83	652243	150.29	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	588586	159.59	ug/L	100

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1232979	157.29	ug/L	100
43) Cyclohexane	4.639	41	380597	164.15	ug/L	99
45) Carbontetrachloride	4.840	121	160190	159.02	ug/L	100
46) 1,1-Dichloropropene	4.852	75	516025	159.44	ug/L	98
48) Benzene	5.218	78	1453431	153.07	ug/L	99
49) 1,2-Dichloroethane	5.260	62	525915	144.53	ug/L	99
50) Iso-Butyl Alcohol	5.291	43	535088	2978.81	ug/L	99
51) n-Heptane	5.803	43	557154	176.01	ug/L	99
52) 1-Butanol	6.425	56	909315	8480.92	ug/L	99
53) Trichloroethene	6.303	130	399799	151.59	ug/L	98
54) Methylcyclohexane	6.571	55	534056	160.78	ug/L	97
55) 1,2-Diclpropane	6.614	63	391043	150.65	ug/L	96
56) Dibromomethane	6.766	93	239532	150.56	ug/L	99
57) 1,4-Dioxane	6.906	88	125221	2939.18	ug/L	89
58) Methyl Methacrylate	6.894	69	303192	146.08	ug/L	99
59) Bromodichloromethane	7.028	83	515669	154.76	ug/L	99
60) 2-Nitropropane	7.339	41	231786	308.75	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	138055	163.97	ug/L	98
62) cis-1,3-Dichloropropene	7.632	75	666579	157.99	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	441706	146.79	ug/L	99
65) Toluene	8.028	91	1597789	155.54	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	615211	158.29	ug/L	99
67) Ethyl Methacrylate	8.510	69	556135	153.06	ug/L	100
68) 1,1,2-Trichloroethane	8.534	97	341280	146.06	ug/L	98
71) Tetrachloroethene	8.674	164	325091	152.75	ug/L	98
72) 2-Hexanone	8.876	43	336676	154.88	ug/L	99
73) 1,3-Dichloropropane	8.717	76	600461	147.43	ug/L	99
74) Dibromochloromethane	8.967	129	410531	157.90	ug/L	97
75) N-Butyl Acetate	9.058	43	730387	147.87	ug/L	99
76) 1,2-Dibromoethane	9.065	107	361108	152.21	ug/L	99
77) Chlorobenzene	9.613	112	1070927	151.95	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	393998	155.76	ug/L	98
79) Ethylbenzene	9.753	106	562074	153.01	ug/L	97
80) (m+p)Xylene	9.875	106	1411427	306.55	ug/L	98
81) o-Xylene	10.253	106	694802	152.16	ug/L	95
82) Styrene	10.272	104	1217236	154.40	ug/L	96
83) Bromoform	10.418	173	275425	161.01	ug/L	100
84) Isopropylbenzene	10.613	105	1833869	156.62	ug/L	99
85) Cyclohexanone	10.674	55	1689416	3128.46	ug/L	96
86) trans-1,4-Dichloro-2-B...	10.936	53	123565	144.26	ug/L	99
88) 1,1,2,2-Tetrachloroethane	10.887	83	480916	146.64	ug/L	99
89) Bromobenzene	10.857	156	463616	152.49	ug/L	91
90) 1,2,3-Trichloropropane	10.912	110	148877	140.16	ug/L	95
91) n-Propylbenzene	10.985	91	2137663	163.87	ug/L	99
92) 2-Chlorotoluene	11.040	91	1254081	157.95	ug/L	98
93) 4-Chlorotoluene	11.137	91	1495223	157.10	ug/L	98
94) 1,3,5-Trimethylbenzene	11.149	105	1534854	160.02	ug/L	99
95) tert-Butylbenzene	11.424	119	1350160	160.82	ug/L	100
96) 1,2,4-Trimethylbenzene	11.466	105	1537764	157.27	ug/L	99
97) sec-Butylbenzene	11.613	105	2030490	166.10	ug/L	99
98) p-Isopropyltoluene	11.741	119	1722972	163.68	ug/L	99
99) 1,3-Dclbenz	11.686	146	896512	153.21	ug/L	99
100) 1,4-Dclbenz	11.765	146	901606	148.91	ug/L	98
101) n-Butylbenzene	12.082	91	1603587	166.53	ug/L	99
102) 1,2-Dclbenz	12.070	146	857214	149.17	ug/L	98
103) 1,2-Dibromo-3-chloropr...	12.704	157	115620	155.84	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration

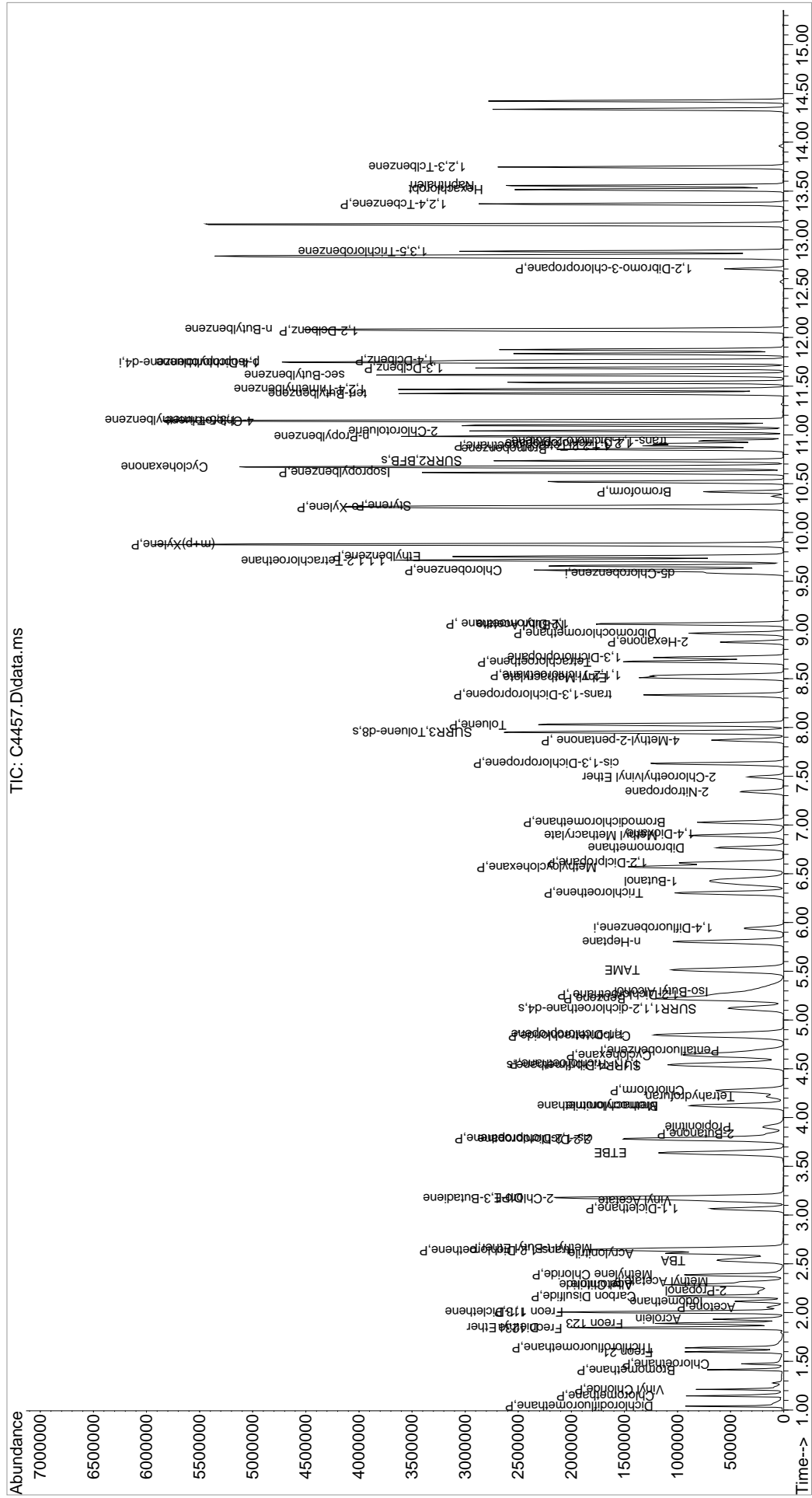
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	719038	154.31	ug/L	99
105) 1,2,4-Tcbenzene	13.369	180	655328	147.85	ug/L	99
106) Hexachlorobt	13.515	225	378359	162.38	ug/L	100
107) Naphthalen	13.558	128	1573945	146.53	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	611171	146.02	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
 Data File : C4457.D  
 Acq On : 18 Jan 2018 3:11 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

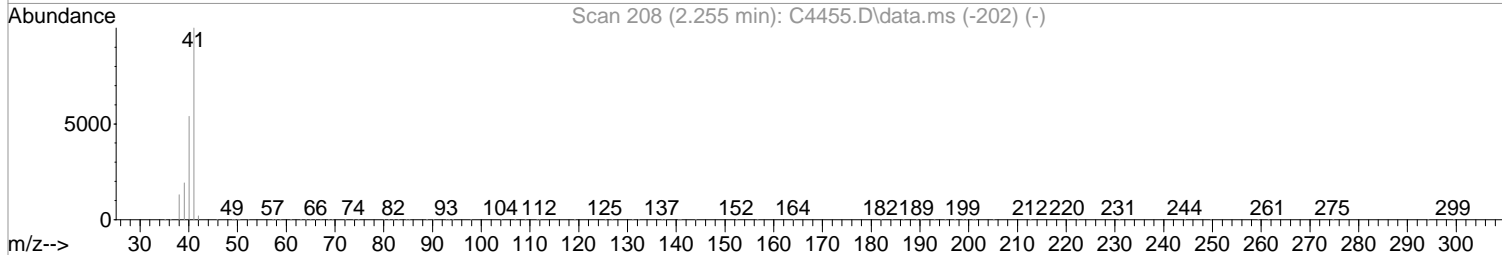
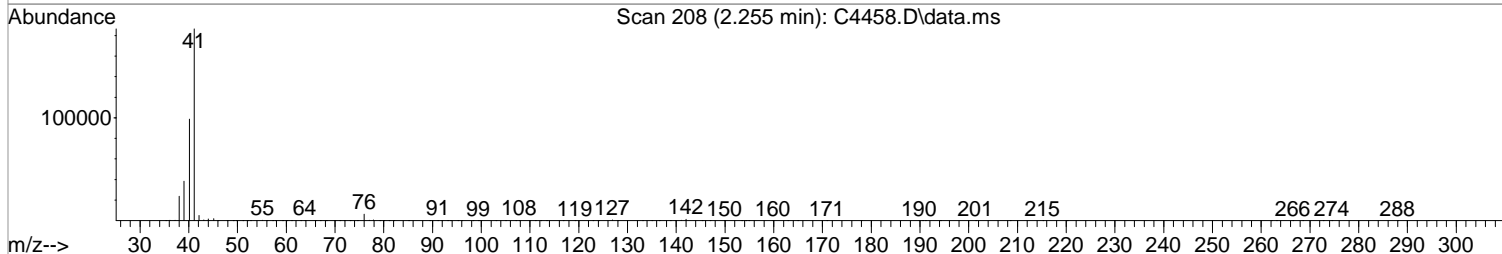
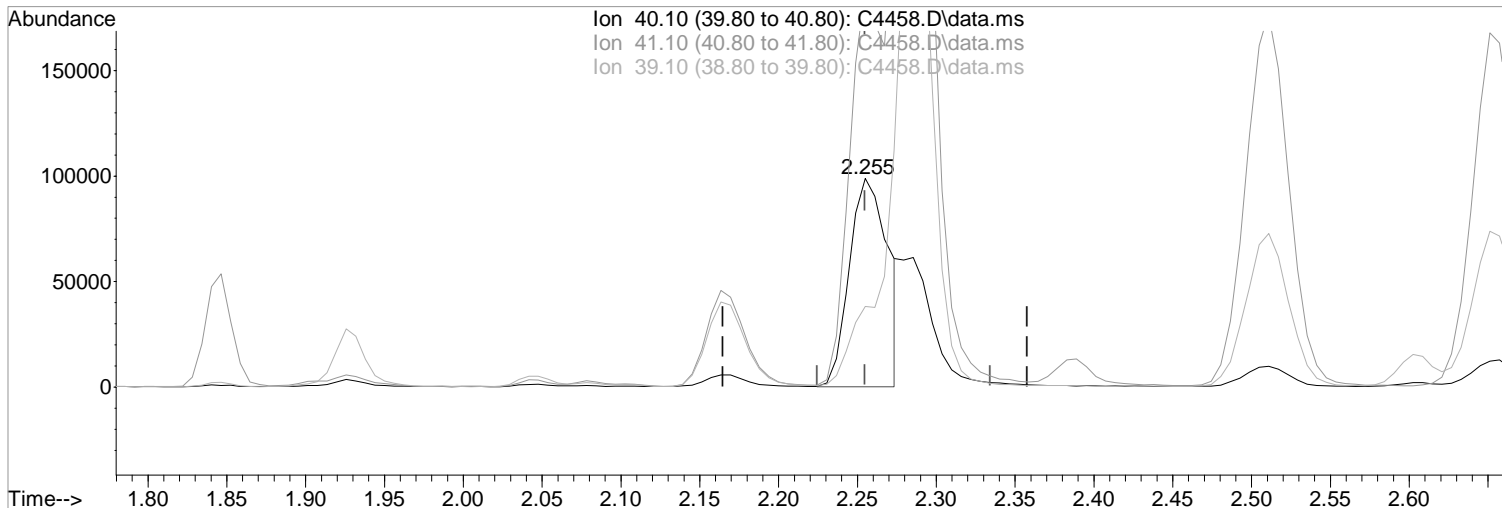
Quant Time: Jan 18 15:37:42 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:05:19 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4458.D  
Acq On : 18 Jan 2018 3:34 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:53:13 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:38:42 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (+0.000) 1104.33 ug/L m  
response 168524

Manual Integration:

After

Poor integration.

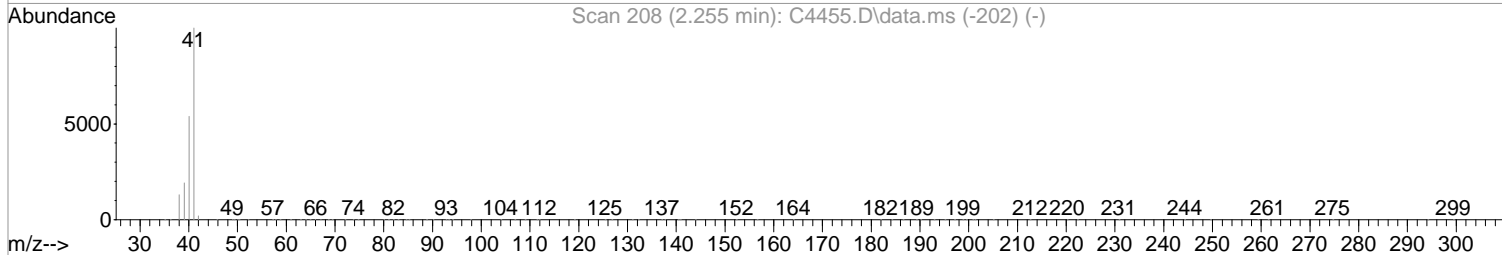
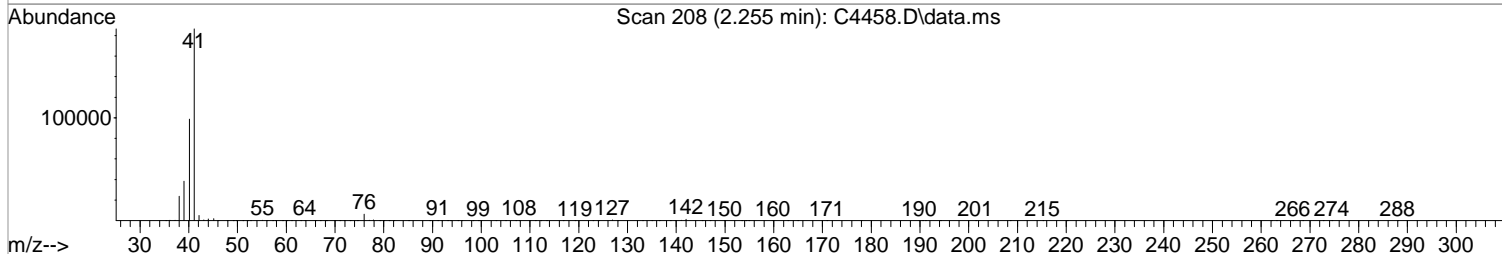
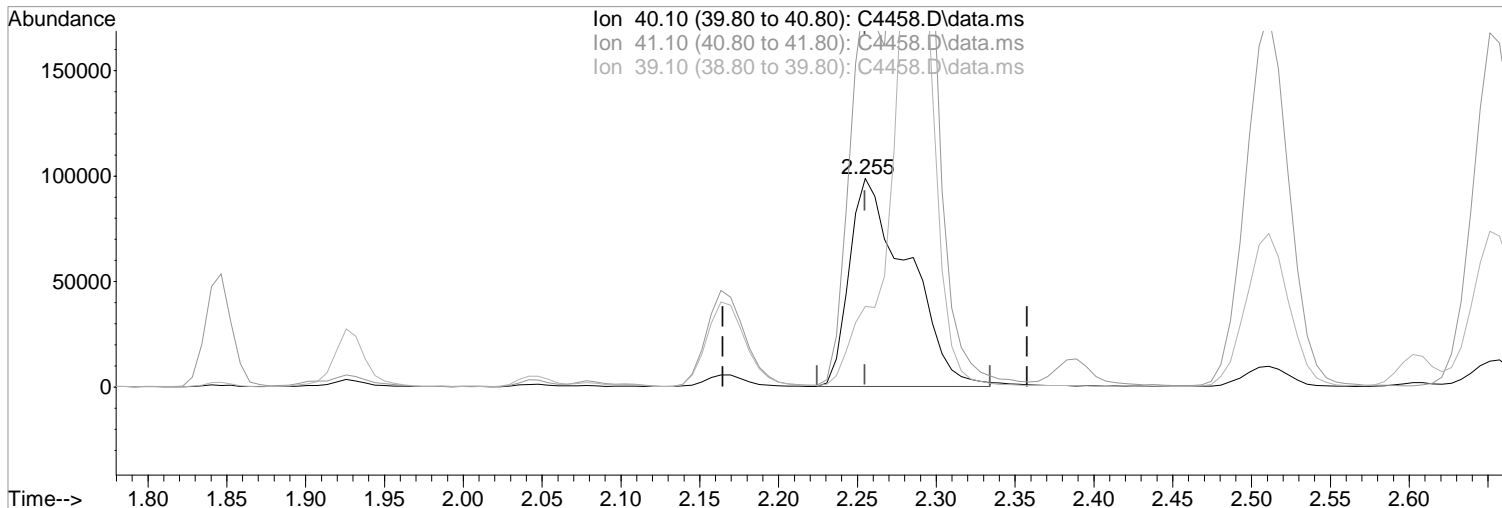
01/18/18

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	188.67
39.10	36.10	38.69
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
Data File : C4458.D  
Acq On : 18 Jan 2018 3:34 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 18 15:53:13 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
QLast Update : Thu Jan 18 15:38:42 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (+0.000) 1667.70 ug/L  
response 254495

Manual Integration:  
Before

Ion	Exp%	Act%
40.10	100	100
41.10	184.50	188.67
39.10	36.10	38.69
0.00	0.00	0.00

01/18/18

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4458.D  
 Acq On : 18 Jan 2018 3:34 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 15:53:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:38:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	236344	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	360212	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	318369	50.00	ug/L	0.00
87) 1,4-Dichlorobenzene-d4	11.747	152	172937	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) SURR4,Dibrflmethane	4.535	113	114301	50.72	ug/L	0.00
Spiked Amount	50.000	Range 63 - 138	Recovery =	101.44%		
47) SURR1,1,2-dichloroetha...	5.120	65	132851	49.13	ug/L	0.00
Spiked Amount	50.000	Range 67 - 128	Recovery =	98.26%		
64) SURR3,Toluene-d8	7.949	98	439241	51.20	ug/L	0.00
Spiked Amount	50.000	Range 66 - 138	Recovery =	102.40%		
69) SURR2,BFB	10.735	95	176234	50.53	ug/L	0.00
Spiked Amount	50.000	Range 51 - 136	Recovery =	101.06%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	672301	223.27	ug/L	99
3) Chloromethane	1.145	50	676960	178.08	ug/L	99
4) Vinyl Chloride	1.212	62	589898	210.14	ug/L	98
5) Bromomethane	1.401	94	262459	142.01	ug/L	98
6) Chloroethane	1.468	64	341189	216.05	ug/L	100
7) Freon 21	1.603	67	864604	206.57	ug/L	100
8) Trichlorofluoromethane	1.639	101	658333	204.53	ug/L	99
9) Diethyl Ether	1.846	59	433359	210.31	ug/L	98
10) Freon 123a	1.846	67	554517	210.44	ug/L	98
11) Freon 123	1.889	83	645931	214.26	ug/L	99
12) Acrolein	1.926	56	541363	1048.24	ug/L	98
13) 1,1-Diclcethene	2.005	96	435007	209.09	ug/L	99
14) Freon 113	2.011	101	435084	213.18	ug/L	99
15) Acetone	2.042	43	196070	128.62	ug/L	96
16) 2-Propanol	2.163	45	1002875	4049.02	ug/L	98
17) Iodomethane	2.115	142	528396	376.67	ug/L	99
18) Carbon Disulfide	2.170	76	1446328	203.73	ug/L	100
19) Acetonitrile	2.255	40	168524m	1104.33	ug/L	
20) Allyl Chloride	2.285	76	199487	196.84	ug/L	97
21) Methyl Acetate	2.310	43	423446	205.44	ug/L	98
22) Methylene Chloride	2.389	84	492673	197.73	ug/L	98
23) TBA	2.511	59	1701498	3827.40	ug/L	98
24) Acrylonitrile	2.602	53	1013356	1041.25	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	1562371	203.67	ug/L	98
26) trans-1,2-Dichloroethene	2.639	96	481720	202.57	ug/L	99
27) 1,1-Diclcethane	3.066	63	861528	205.73	ug/L	99
28) Vinyl Acetate	3.145	86	129498	219.40	ug/L	# 90
29) DIPE	3.182	45	1675671	208.27	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.175	53	749032	198.54	ug/L	96
31) ETBE	3.639	59	1651393	206.16	ug/L	99
32) 2,2-Dichloropropane	3.779	77	763827	202.98	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	552098	202.38	ug/L	98
34) 2-Butanone	3.822	43	290459	178.61	ug/L	97
35) Propionitrile	3.889	54	411558	1008.47	ug/L	97
36) Bromochloromethane	4.120	130	318759	193.70	ug/L	97
37) Methacrylonitrile	4.126	67	226376	201.36	ug/L	93
38) Tetrahydrofuran	4.212	42	182836	182.61	ug/L	94
39) Chloroform	4.279	83	863174	202.72	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	776985	212.84	ug/L	99



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4458.D  
 Acq On : 18 Jan 2018 3:34 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 15:53:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:38:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1601625	206.87	ug/L	99
43) Cyclohexane	4.639	41	497076	212.75	ug/L	99
45) Carbontetrachloride	4.846	121	213664	211.50	ug/L	100
46) 1,1-Dichloropropene	4.852	75	679628	209.30	ug/L	98
48) Benzene	5.218	78	1912274	201.96	ug/L	99
49) 1,2-Dichloroethane	5.260	62	703284	195.40	ug/L	99
50) Iso-Butyl Alcohol	5.266	43	732594	4105.72	ug/L	97
51) n-Heptane	5.803	43	689752	213.84	ug/L	99
52) 1-Butanol	6.388	56	1213663	11175.23	ug/L	100
53) Trichloroethene	6.303	130	525877	200.23	ug/L	98
54) Methylcyclohexane	6.571	55	689098	206.52	ug/L	97
55) 1,2-Diclpropane	6.614	63	524303	203.01	ug/L	98
56) Dibromomethane	6.766	93	325171	205.44	ug/L	99
57) 1,4-Dioxane	6.858	88	161028	3812.23	ug/L	94
58) Methyl Methacrylate	6.894	69	415224	201.96	ug/L	97
59) Bromodichloromethane	7.028	83	692974	208.21	ug/L	99
60) 2-Nitropropane	7.339	41	324128	432.41	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	211425	249.22	ug/L	98
62) cis-1,3-Dichloropropene	7.632	75	888108	210.09	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	594877	199.43	ug/L	99
65) Toluene	8.034	91	2117640	206.24	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	827120	212.35	ug/L	97
67) Ethyl Methacrylate	8.510	69	765339	211.22	ug/L	98
68) 1,1,2-Trichloroethane	8.534	97	461784	199.51	ug/L	99
71) Tetrachloroethene	8.680	164	426867	204.01	ug/L	100
72) 2-Hexanone	8.876	43	446309	208.42	ug/L	96
73) 1,3-Dichloropropane	8.717	76	809693	203.24	ug/L	99
74) Dibromochloromethane	8.967	129	561729	218.69	ug/L	98
75) N-Butyl Acetate	9.058	43	994622	205.78	ug/L	99
76) 1,2-Dibromoethane	9.065	107	490145	210.26	ug/L	100
77) Chlorobenzene	9.613	112	1413367	204.14	ug/L	99
78) 1,1,1,2-Tetrachloroethane	9.711	131	529295	212.23	ug/L	98
79) Ethylbenzene	9.753	106	754069	208.75	ug/L	96
80) (m+p)Xylene	9.875	106	1889233	417.16	ug/L	98
81) o-Xylene	10.253	106	926702	206.55	ug/L	97
82) Styrene	10.272	104	1629057	209.86	ug/L	97
83) Bromoform	10.418	173	386343	227.94	ug/L	99
84) Isopropylbenzene	10.613	105	2464591	213.31	ug/L	98
85) Cyclohexanone	10.668	55	2116890	3973.48	ug/L	98
86) trans-1,4-Dichloro-2-B...	10.942	53	174092	208.42	ug/L	94
88) 1,1,2,2-Tetrachloroethane	10.887	83	672763	204.39	ug/L	100
89) Bromobenzene	10.851	156	625872	203.96	ug/L	98
90) 1,2,3-Trichloropropane	10.912	110	208647	196.93	ug/L	97
91) n-Propylbenzene	10.985	91	2835022	213.02	ug/L	98
92) 2-Chlorotoluene	11.040	91	1684203	209.09	ug/L	99
93) 4-Chlorotoluene	11.143	91	2008458	208.18	ug/L	99
94) 1,3,5-Trimethylbenzene	11.150	105	2061836	211.47	ug/L	98
95) tert-Butylbenzene	11.424	119	1821587	213.29	ug/L	99
96) 1,2,4-Trimethylbenzene	11.467	105	2073827	209.19	ug/L	98
97) sec-Butylbenzene	11.613	105	2706865	216.59	ug/L	98
98) p-Isopropyltoluene	11.747	119	2313031	215.43	ug/L	97
99) 1,3-Dclbenz	11.686	146	1211456	204.99	ug/L	99
100) 1,4-Dclbenz	11.765	146	1214753	199.46	ug/L	98
101) n-Butylbenzene	12.082	91	2136732	216.96	ug/L	99
102) 1,2-Dclbenz	12.070	146	1171130	202.56	ug/L	99
103) 1,2-Dibromo-3-chloropr...	12.704	157	167515	223.00	ug/L	95



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4458.D  
 Acq On : 18 Jan 2018 3:34 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 18 15:53:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 15:38:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	932373	197.91	ug/L	100
105) 1,2,4-Tcbenzene	13.369	180	886883	199.13	ug/L	98
106) Hexachlorobt	13.515	225	510886	215.21	ug/L	99
107) Naphthalen	13.558	128	2229751	206.84	ug/L	99
108) 1,2,3-Tclbenzene	13.747	180	834926	198.86	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	241693	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	360668	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	321422	50.00	ug/L	0.00	
87) 1,4-Dichlorobenzene-d4	11.741	152	171355	50.00	ug/L	0.00	
System Monitoring Compounds							
44) SURR4,Dibrflmethane	4.535	113	114059	50.78	ug/L	0.00	
Spiked Amount	50.000	Range 63 - 138	Recovery	=	101.56%		
47) SURR1,1,2-dichloroetha...	5.120	65	135763	50.46	ug/L	0.00	
Spiked Amount	50.000	Range 67 - 128	Recovery	=	100.92%		
64) SURR3,Toluene-d8	7.949	98	435775	50.74	ug/L	0.00	
Spiked Amount	50.000	Range 66 - 138	Recovery	=	101.48%		
69) SURR2,BFB	10.735	95	174829	50.46	ug/L	0.00	
Spiked Amount	50.000	Range 51 - 136	Recovery	=	100.92%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	151294	48.98	ug/L		99
3) Chloromethane	1.145	50	167697	44.81	ug/L		100
4) Vinyl Chloride	1.212	62	146289	51.08	ug/L		99
5) Bromomethane	1.407	94	87290	49.16	ug/L		100
6) Chloroethane	1.474	64	84654	53.75	ug/L		99
7) Freon 21	1.602	67	226453	51.92	ug/L		98
8) Trichlorofluoromethane	1.645	101	177224	54.06	ug/L		98
9) Diethyl Ether	1.846	59	103047	48.95	ug/L		98
10) Freon 123a	1.846	67	155022	55.65	ug/L		95
11) Freon 123	1.889	83	169492	52.98	ug/L		97
12) Acrolein	1.926	56	44982	86.02	ug/L		99
13) 1,1-Diclcethene	2.005	96	105575	49.70	ug/L		99
14) Freon 113	2.011	101	114964	54.65	ug/L		98
15) Acetone	2.041	43	58789	53.68	ug/L		99
16) 2-Propanol	2.157	45	229080	917.42	ug/L		100
17) Iodomethane	2.115	142	93212	53.38	ug/L		99
18) Carbon Disulfide	2.169	76	345905	47.83	ug/L		99
19) Acetonitrile	2.255	40	38951	236.89	ug/L		97
20) Allyl Chloride	2.285	76	61391	59.50	ug/L		95
21) Methyl Acetate	2.310	43	95871	45.99	ug/L		96
22) Methylene Chloride	2.389	84	117043	46.49	ug/L		97
23) TBA	2.505	59	389571	874.76	ug/L		99
24) Acrylonitrile	2.602	53	234161	236.60	ug/L		99
25) Methyl-t-Butyl Ether	2.651	73	372812	47.81	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	118689	48.99	ug/L		99
27) 1,1-Diclcethane	3.066	63	209682	49.08	ug/L		97
28) Vinyl Acetate	3.145	86	28292	47.02	ug/L	#	95
29) DIPE	3.181	45	401790	48.07	ug/L		100
30) 2-Chloro-1,3-Butadiene	3.175	53	189675	49.65	ug/L		99
31) ETBE	3.633	59	385929	46.56	ug/L		99
32) 2,2-Dichloropropane	3.779	77	190819	49.69	ug/L		99
33) cis-1,2-Dichloroethene	3.785	96	134313	48.34	ug/L		98
34) 2-Butanone	3.822	43	71973	48.59	ug/L		96
35) Propionitrile	3.889	54	95380	231.31	ug/L		99
36) Bromochloromethane	4.120	130	79141	47.39	ug/L		97
37) Methacrylonitrile	4.120	67	52797	46.21	ug/L		95
38) Tetrahydrofuran	4.212	42	42238	45.69	ug/L		96
39) Chloroform	4.279	83	214643	49.58	ug/L		99
40) 1,1,1-Trichloroethane	4.553	97	191096	51.00	ug/L		98

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	376392	47.12	ug/L	99
43) Cyclohexane	4.638	41	120852	49.71	ug/L	98
45) Carbontetrachloride	4.846	121	51583	50.67	ug/L	100
46) 1,1-Dichloropropene	4.852	75	164973	50.43	ug/L	97
48) Benzene	5.218	78	462921	48.92	ug/L	99
49) 1,2-Dichloroethane	5.260	62	170322	47.82	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	159035	906.12	ug/L	96
51) n-Heptane	5.803	43	180086	60.06	ug/L	96
52) 1-Butanol	6.370	56	259936	2357.92	ug/L	99
53) Trichloroethene	6.303	130	129477	49.25	ug/L	99
54) Methylcyclohexane	6.571	55	172273	50.04	ug/L	95
55) 1,2-Diclpropane	6.614	63	124464	48.09	ug/L	98
56) Dibromomethane	6.766	93	75254	47.38	ug/L	97
57) 1,4-Dioxane	6.851	88	38056	915.28	ug/L	88
58) Methyl Methacrylate	6.894	69	96478	47.10	ug/L	95
59) Bromodichloromethane	7.028	83	164558	49.24	ug/L	99
60) 2-Nitropropane	7.339	41	68915	89.83	ug/L	96
61) 2-Chloroethylvinyl Ether	7.492	63	47061	51.11	ug/L	96
62) cis-1,3-Dichloropropene	7.626	75	208539	49.33	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	137014	46.51	ug/L	98
65) Toluene	8.028	91	513488	49.67	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	191467	49.01	ug/L	96
67) Ethyl Methacrylate	8.510	69	178329	49.19	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	111217	48.27	ug/L	98
71) Tetrachloroethene	8.674	164	106212	50.02	ug/L	97
72) 2-Hexanone	8.869	43	105092	49.27	ug/L	99
73) 1,3-Dichloropropane	8.717	76	192477	47.88	ug/L	99
74) Dibromochloromethane	8.967	129	128306	49.09	ug/L	98
75) N-Butyl Acetate	9.058	43	235811	48.70	ug/L	99
76) 1,2-Dibromoethane	9.064	107	113392	48.34	ug/L	99
77) Chlorobenzene	9.613	112	346448	49.35	ug/L	98
78) 1,1,1,2-Tetrachloroethane	9.711	131	127354	49.99	ug/L	99
79) Ethylbenzene	9.753	106	183467	49.78	ug/L	98
80) (m+p)Xylene	9.875	106	456599	98.92	ug/L	99
81) o-Xylene	10.253	106	222393	48.68	ug/L	97
82) Styrene	10.272	104	390383	49.45	ug/L	95
83) Bromoform	10.418	173	85284	49.29	ug/L	100
84) Isopropylbenzene	10.613	105	588187	49.81	ug/L	100
85) Cyclohexanone	10.662	55	509044	968.88	ug/L	99
86) trans-1,4-Dichloro-2-B...	10.936	53	47025	55.49	ug/L	98
88) 1,1,2,2-Tetrachloroethane	10.887	83	160244	49.03	ug/L	99
89) Bromobenzene	10.851	156	151073	49.37	ug/L	100
90) 1,2,3-Trichloropropane	10.906	110	49016	47.07	ug/L	98
91) n-Propylbenzene	10.985	91	688156	51.32	ug/L	100
92) 2-Chlorotoluene	11.040	91	422016	52.21	ug/L	99
93) 4-Chlorotoluene	11.137	91	481594	49.83	ug/L	98
94) 1,3,5-Trimethylbenzene	11.149	105	512031	52.19	ug/L	99
95) tert-Butylbenzene	11.424	119	437298	51.00	ug/L	99
96) 1,2,4-Trimethylbenzene	11.466	105	513893	51.69	ug/L	98
97) sec-Butylbenzene	11.613	105	648562	51.55	ug/L	100
98) p-Isopropyltoluene	11.741	119	572966	52.97	ug/L	99
99) 1,3-Dclbenz	11.686	146	299995	50.67	ug/L	98
100) 1,4-Dclbenz	11.759	146	300763	49.53	ug/L	97
101) n-Butylbenzene	12.082	91	537975	54.35	ug/L	99
102) 1,2-Dclbenz	12.070	146	290734	50.57	ug/L	100
103) 1,2-Dibromo-3-chloropr...	12.704	157	36874	49.08	ug/L	96

Data Path : I:\ACQUDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration

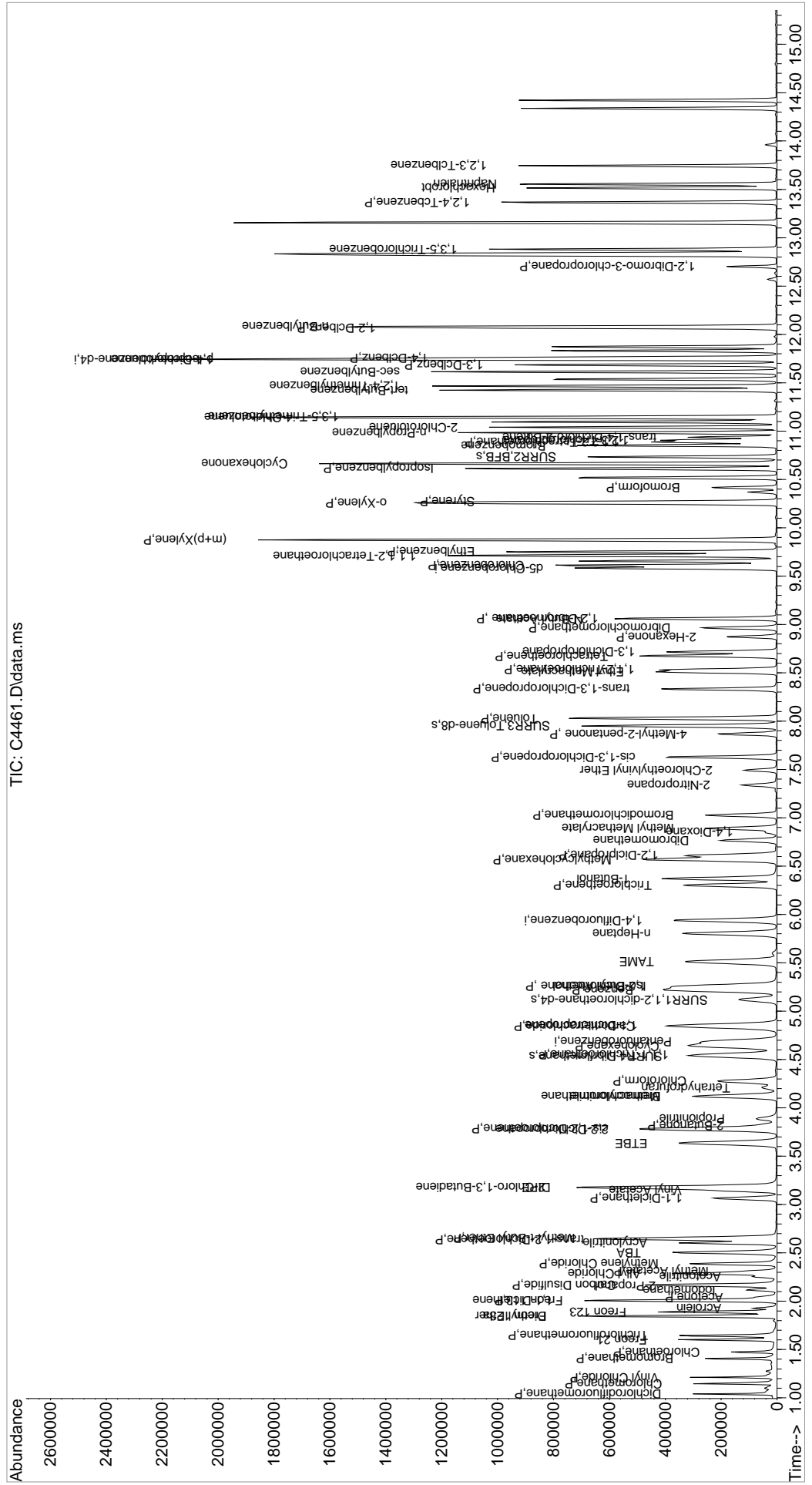
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3,5-Trichlorobenzene	12.881	180	236522	49.84	ug/L	99
105) 1,2,4-Tcbenzene	13.368	180	226822	51.14	ug/L	99
106) Hexachlorobt	13.515	225	127847	54.00	ug/L	99
107) Naphthalen	13.557	128	547679	50.93	ug/L	99
108) 1,2,3-Tclbenzene	13.746	180	209867	50.20	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\011818\  
 Data File : C4461.D  
 Acq On : 18 Jan 2018 5:10 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 19 08:46:34 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\S011818.M  
 Quant Title : MS#14 - 8260 SOILS 10ml PURGE  
 QLast Update : Thu Jan 18 16:43:08 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	287947	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	479951	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	424833	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	218758	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.225	113	141452	49.64	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.28%			
48) surr1,1,2-dichloroetha...	5.767	65	193466	49.54	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.08%			
65) SURR3,Toluene-d8	8.291	98	624876	49.11	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.22%			
70) SURR2,BFB	10.858	95	237241	48.19	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	96.38%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	134291	38.34	ppb		98
3) Chloromethane	1.305	50	190453	43.50	ppb		99
4) Vinyl Chloride	1.384	62	199400	46.76	ppb		99
5) Bromomethane	1.609	94	142716	45.39	ppb		97
6) Chloroethane	1.689	64	124204	46.65	ppb		97
7) Freon 21	1.835	67	285350	51.83	ppb		98
8) Trichlorofluoromethane	1.884	101	213052	51.84	ppb		96
9) Diethyl Ether	2.115	59	136922	47.87	ppb		98
10) Freon 123a	2.121	67	191670	55.12	ppb		99
11) Freon 123	2.170	83	210567	52.33	ppb		99
12) Acrolein	2.213	56	54829	64.41	ppb		94
13) 1,1-Diclcethene	2.304	96	133150	45.02	ppb		99
14) Freon 113	2.310	101	130157	46.57	ppb		95
15) Acetone	2.347	43	85120	48.48	ppb		99
16) 2-Propanol	2.475	45	333226	989.18	ppb		100
17) Iodomethane	2.432	142	126267	36.58	ppb		96
18) Carbon Disulfide	2.499	76	396813	46.00	ppb		98
19) Acetonitrile	2.591	40	71030	236.95	ppb		100
20) Allyl Chloride	2.634	76	73512	46.67	ppb		92
21) Methyl Acetate	2.658	43	157488	50.23	ppb		99
22) Methylene Chloride	2.749	84	150486	48.24	ppb		99
23) TBA	2.877	59	560668	965.55	ppb		99
24) Acrylonitrile	2.999	53	402143	238.60	ppb		99
25) Methyl-t-Butyl Ether	3.048	73	507837	47.90	ppb		99
26) trans-1,2-Dichloroethene	3.042	96	144824	47.94	ppb		97
28) 1,1-Diclcethane	3.536	63	274458	49.51	ppb		97
29) Vinyl Acetate	3.627	86	38188	43.14	ppb	#	92
30) DIPE	3.664	45	492688	46.67	ppb		97
31) 2-Chloro-1,3-Butadiene	3.658	53	243854	45.48	ppb		94
32) ETBE	4.188	59	513182	48.20	ppb		97
33) 2,2-Dichloropropane	4.365	77	227846	46.22	ppb		98
34) cis-1,2-Dichloroethene	4.371	96	164996	47.97	ppb		95
35) 2-Butanone	4.408	43	103585	46.96	ppb		98
36) Propionitrile	4.493	54	164268	229.34	ppb		95
37) Bromochloromethane	4.761	130	97230	48.85	ppb		96
38) Methacrylonitrile	4.761	67	88251	51.94	ppb		94
39) Tetrahydrofuran	4.853	42	65186	50.65	ppb		86
40) Chloroform	4.944	83	263420	47.20	ppb		98
41) 1,1,1-Trichloroethane	5.243	97	228157	48.30	ppb		98



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	507580	48.84	ppb	98
44) Cyclohexane	5.334	41	144705	46.15	ppb	99
46) Carbontetrachloride	5.523	117	183593	50.96	ppb	96
47) 1,1-Dichloropropene	5.529	75	209652	49.59	ppb	98
49) Benzene	5.846	78	620472	49.49	ppb	100
50) 1,2-Dichloroethane	5.883	62	221444	48.08	ppb	98
51) Iso-Butyl Alcohol	5.859	43	240444	945.52	ppb	97
52) n-Heptane	6.340	43	193642	45.00	ppb	96
53) 1-Butanol	6.822	56	419687	2494.27	ppb	99
54) Trichloroethene	6.797	130	162270	50.47	ppb	96
55) Methylcyclohexane	7.035	55	205143	49.05	ppb	98
56) 1,2-Diclpropane	7.078	63	162105	48.47	ppb	96
57) Dibromomethane	7.218	93	95483	47.82	ppb	98
58) 1,4-Dioxane	7.279	88	64491	976.88	ppb	97
59) Methyl Methacrylate	7.303	69	149451	48.38	ppb	99
60) Bromodichloromethane	7.450	83	202525	48.11	ppb	95
61) 2-Nitropropane	7.724	41	120257	92.50	ppb	98
62) 2-Chloroethylvinyl Ether	7.852	63	38992	50.45	ppb	94
63) cis-1,3-Dichloropropene	7.992	75	263518	49.61	ppb	97
64) 4-Methyl-2-pentanone	8.193	43	188470	46.19	ppb	95
66) Toluene	8.364	91	677037	49.72	ppb	98
67) trans-1,3-Dichloropropene	8.632	75	248645	50.25	ppb	98
68) Ethyl Methacrylate	8.773	69	261322	51.73	ppb	99
69) 1,1,2-Trichloroethane	8.821	97	145623	47.07	ppb	97
72) Tetrachloroethene	8.956	164	111631	47.62	ppb	97
73) 2-Hexanone	9.108	43	146355	46.79	ppb	94
74) 1,3-Dichloropropane	8.992	76	265741	48.68	ppb	98
75) Dibromochloromethane	9.218	129	143505	50.37	ppb	97
76) N-Butyl Acetate	9.266	43	315825	53.65	ppb	96
77) 1,2-Dibromoethane	9.315	107	147070	48.59	ppb	97
78) Chlorobenzene	9.809	112	427179	51.32	ppb	99
79) 3-CBTF	9.827	180	209132	47.12	ppb	95
80) 4-CBTF	9.882	180	186198	45.91	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.894	131	146680	49.58	ppb	95
82) Ethylbenzene	9.931	106	228973	49.83	ppb	98
83) (m+p)Xylene	10.041	106	559632	100.62	ppb	100
84) o-Xylene	10.400	106	276930	49.73	ppb	100
85) Styrene	10.413	104	479273	51.13	ppb	98
87) Bromoform	10.565	173	95178	49.88	ppb	99
88) 2-CBTF	10.644	180	204322	48.23	ppb	94
89) Isopropylbenzene	10.736	105	711427	49.50	ppb	98
90) Cyclohexanone	10.797	55	836747	765.29	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	61025	53.58	ppb	99
92) 1,1,2,2-Tetrachloroethane	10.998	83	207141	47.76	ppb	96
93) Bromobenzene	10.979	156	172547	49.02	ppb	96
94) 1,2,3-Trichloropropane	11.022	110	69365	49.23	ppb	94
95) n-Propylbenzene	11.095	91	844300	50.52	ppb	100
96) 2-Chlorotoluene	11.156	91	532215	51.37	ppb	99
97) 3-Chlorotoluene	11.211	91	537133	49.15	ppb	97
98) 4-Chlorotoluene	11.248	91	589390	49.23	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	616952	51.32	ppb	98
100) tert-Butylbenzene	11.516	119	520317	50.14	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	626900	52.07	ppb	98
102) 3,4-DCBTF	11.620	214	161549	48.02	ppb	98
103) sec-Butylbenzene	11.699	105	776457	50.85	ppb	99
104) p-Isopropyltoluene	11.821	119	664383	51.70	ppb	100



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	336727	50.32	ppb	97
106) 1,4-Dclbenz	11.857	146	346237	49.31	ppb	99
107) 2,4-DCBTF	11.912	214	153233	47.76	ppb	97
108) 2,5-DCBTF	11.949	214	162889	47.48	ppb	98
109) n-Butylbenzene	12.156	91	633806	52.88	ppb	99
110) 1,2-Dclbenz	12.156	146	339670	50.86	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.784	157	53218	47.40	ppb	93
112) Trielution Dichlorotol...	12.900	125	973605	148.21	ppb	99
113) 1,3,5 Trichlorobenzene	12.955	180	261939	50.38	ppb	96
114) Coelution Dichlorotoluene	13.229	125	720830	103.46	ppb	100
115) 1,2,4-Tcbenzene	13.436	180	255427	52.62	ppb	96
116) Hexachlorobt	13.577	225	110049	48.84	ppb	98
117) Naphthalen	13.625	128	749449	55.96	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	255017	54.08	ppb	98
119) 2,4,5-Trichlorotolene	14.400	159	167006	53.91	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	158730	54.85	ppb	97

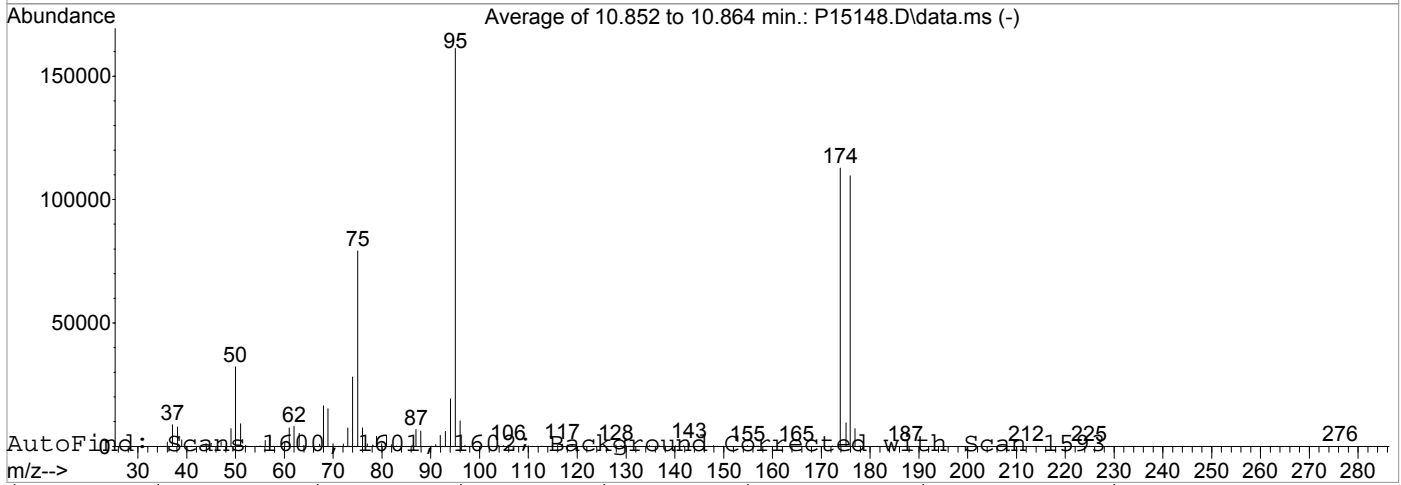
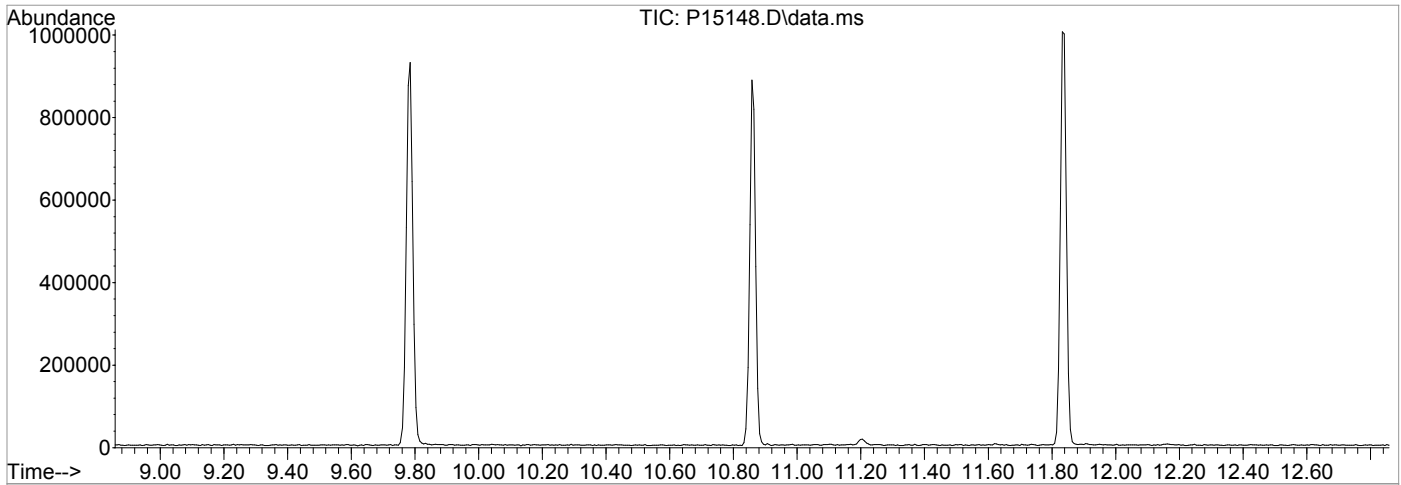
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15148.D  
 Acq On : 29 Dec 2017 4:24 pm  
 Operator : K.Ruest  
 Sample : TUNE  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA-12

Integration File: INTP90.P

Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Title : MS#12 - 8260B WATERS 10mL Purge  
 Last Update : Fri Dec 29 09:19:07 2017



AutoFind: Scans 1600, 1601, 1602 Background corrected with Scan 1603

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	32261	PASS
75	95	30	60	49.1	79149	PASS
95	95	100	100	100.0	161277	PASS
96	95	5	9	6.4	10343	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	69.9	112739	PASS
175	174	5	9	8.5	9553	PASS
176	174	95	101	97.2	109600	PASS
177	176	5	9	6.5	7155	PASS

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15149.D  
 Acq On : 29 Dec 2017 5:01 pm  
 Operator : K.Ruest  
 Sample : IBLK Inst : MSVOA-12  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 02 15:24:56 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	312401	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	516664	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	453641	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	224311	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	153044	49.89	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.78%	
48) surr1,1,2-dichloroetha...	5.761	65	209116	49.74	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.48%	
65) SURR3,Toluene-d8	8.291	98	677259	49.44	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.88%	
70) SURR2,BFB	10.858	95	255019	48.12	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.24%	

Target Compounds Qvalue

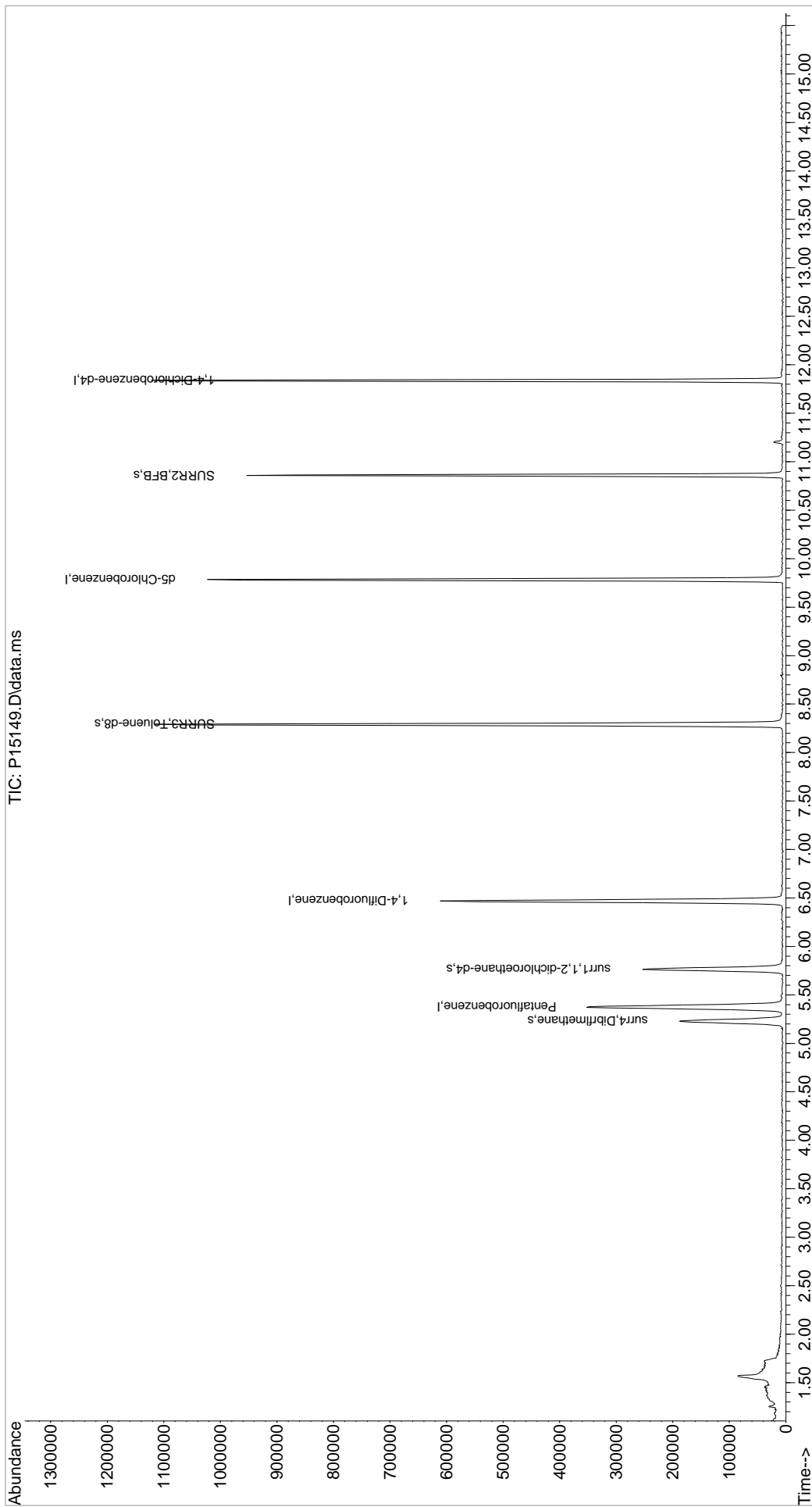
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
Data File : P15149.D  
Acq On : 29 Dec 2017 5:01 pm  
Operator : K.Ruest  
Sample : IBLK  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

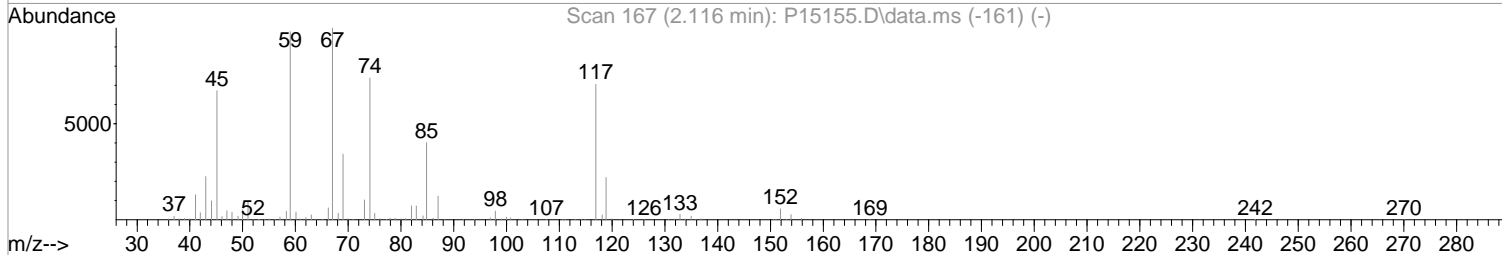
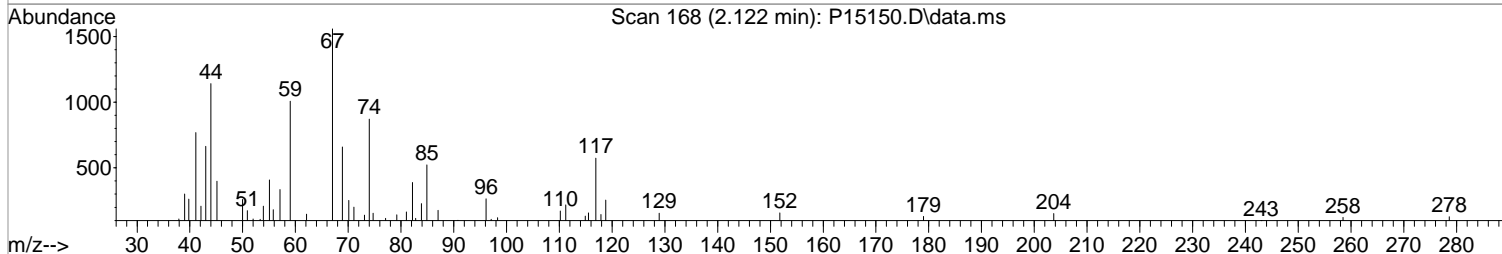
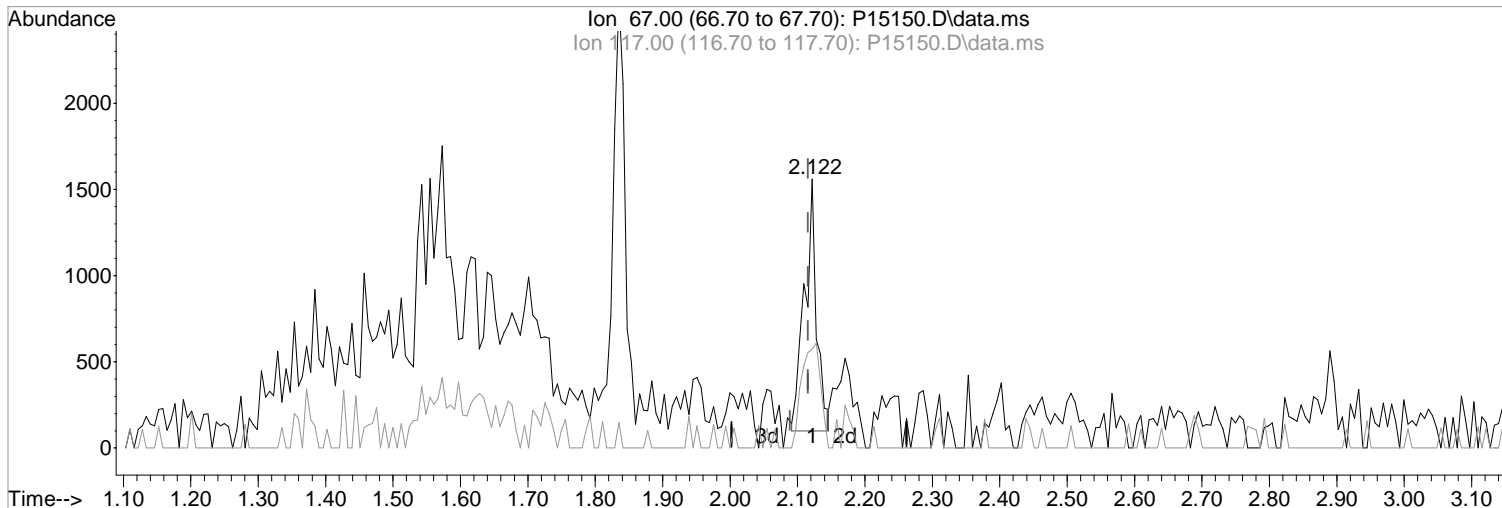
Quant Time: Jan 02 15:24:56 2018  
Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 13:02:22 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(10) Freon 123a  
2.122min (+0.006) 0.54 ppb m  
response 1826

Manual Integration:  
After  
Poor integration.

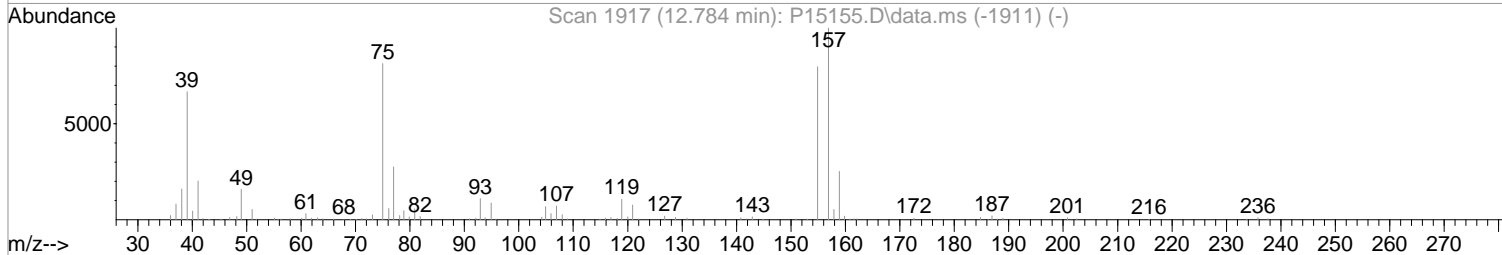
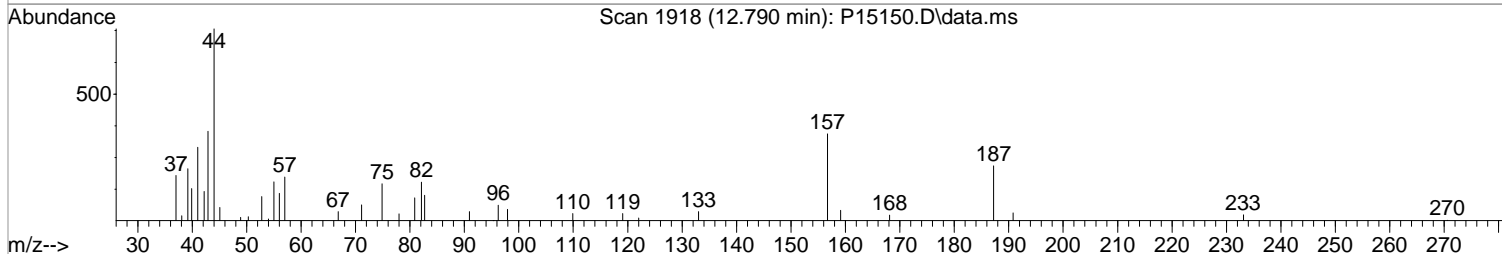
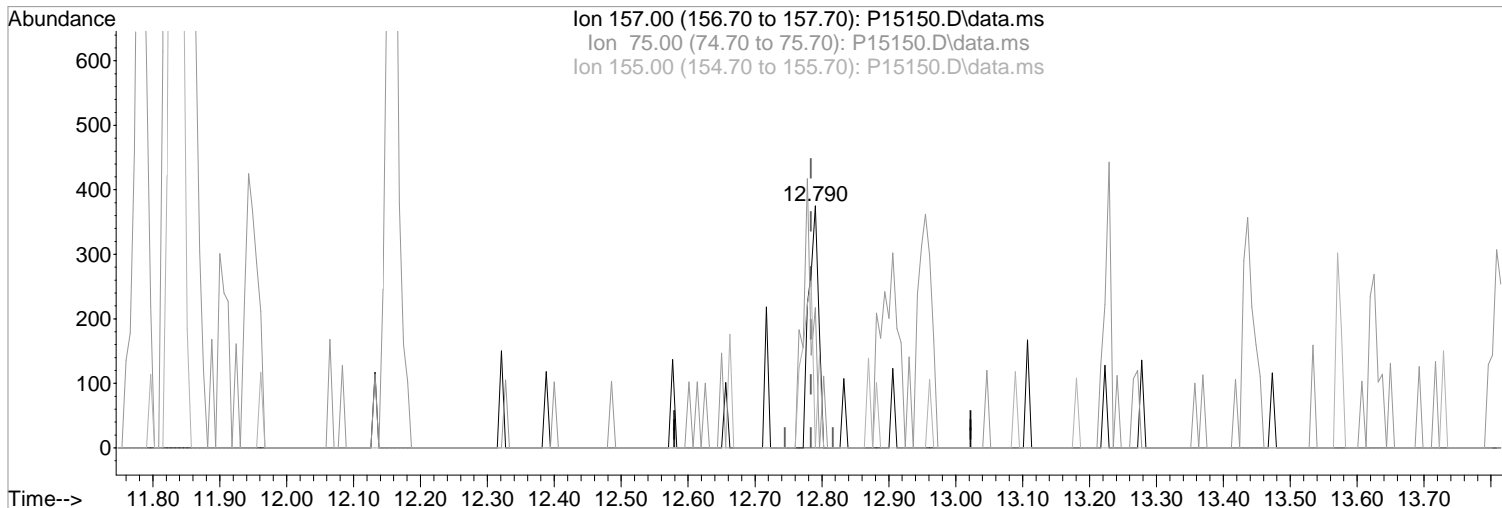
Ion	Exp%	Act%
67.00	100	100
117.00	70.30	36.73#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15150.D\data.ms

(111) 1,2-Dibromo-3-chloropropane (P)

12.790min (+0.006) 0.39 ppb m  
response 383

Manual Integration:

After

Poor integration.

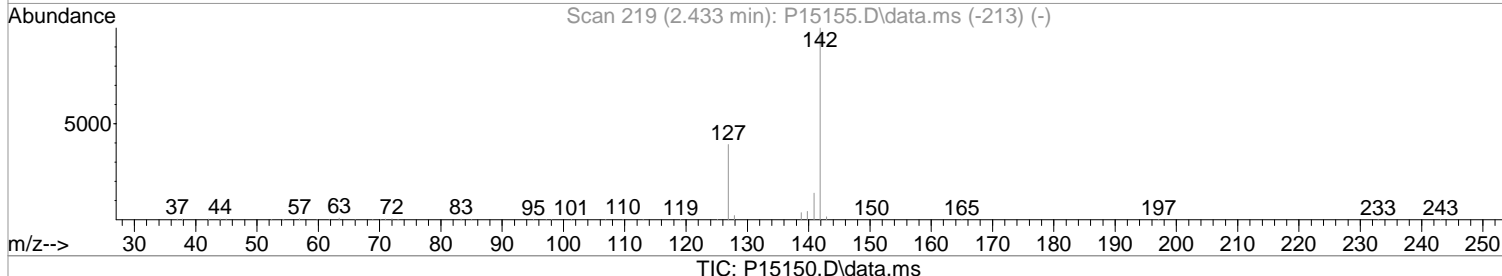
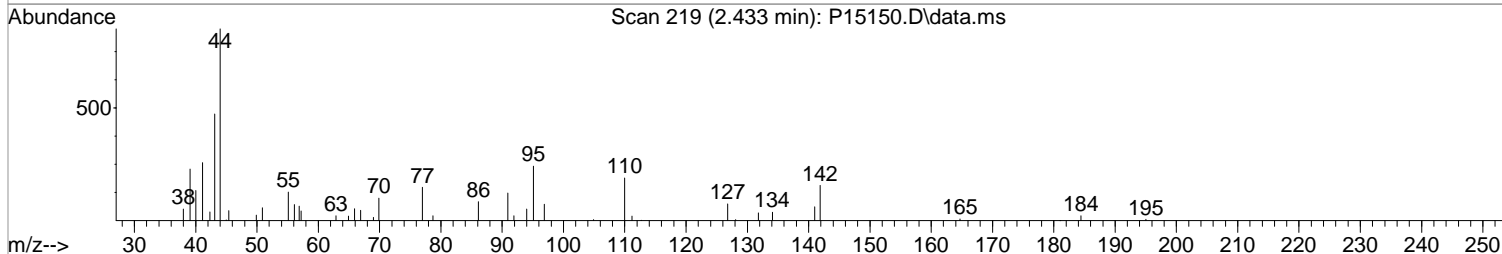
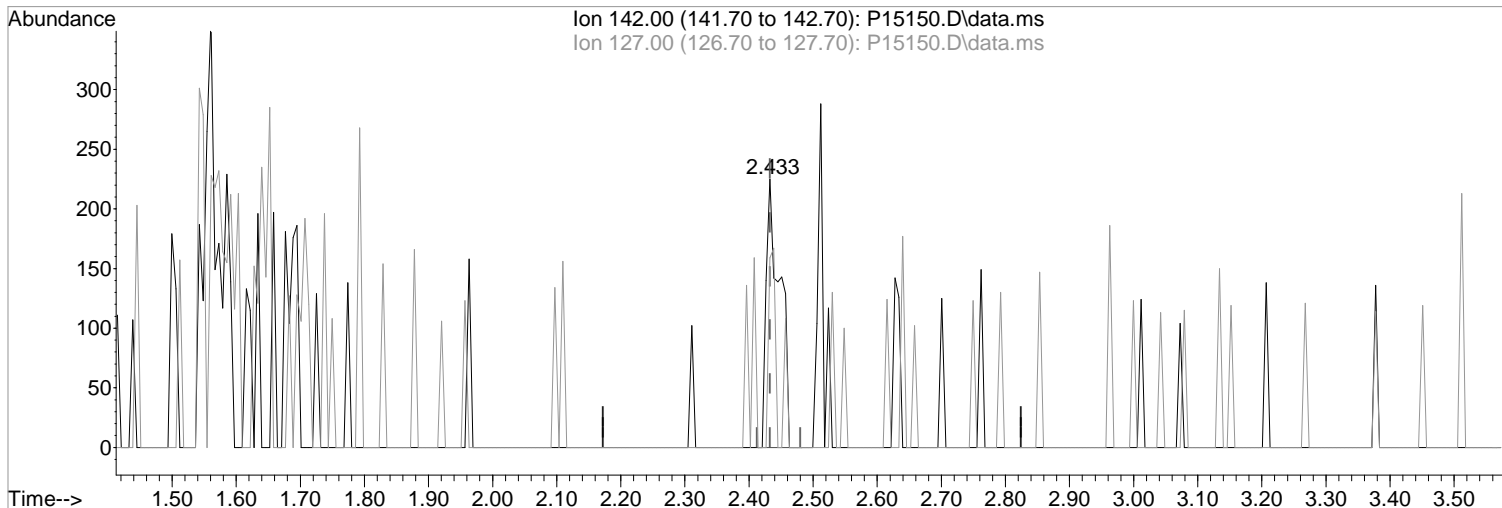
01/02/18

Ion	Exp%	Act%
157.00	100	100
75.00	81.40	57.87#
155.00	79.70	0.00#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(17) Iodomethane  
2.433min (+0.000) 0.13 ppb m  
response 336

Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
142.00	100	100
127.00	39.10	70.67#
0.00	0.00	0.00
0.00	0.00	0.00

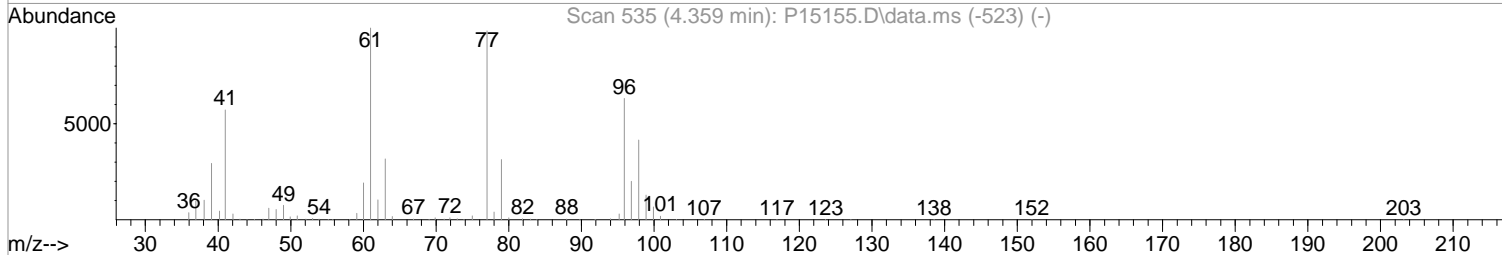
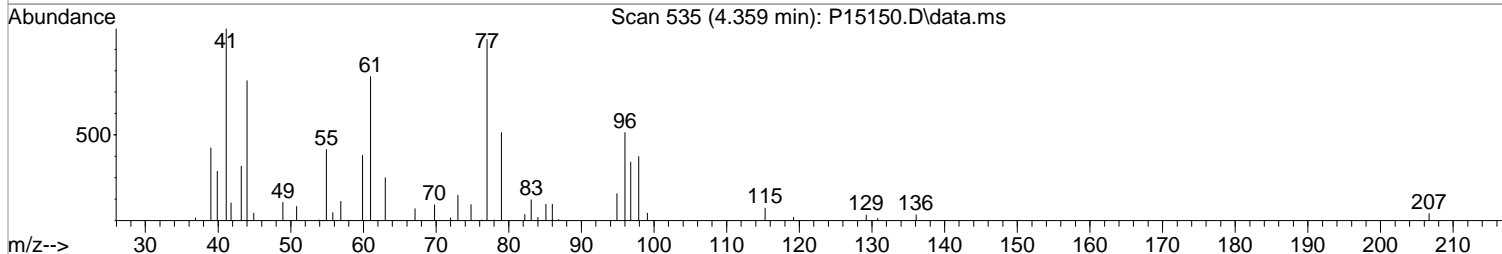
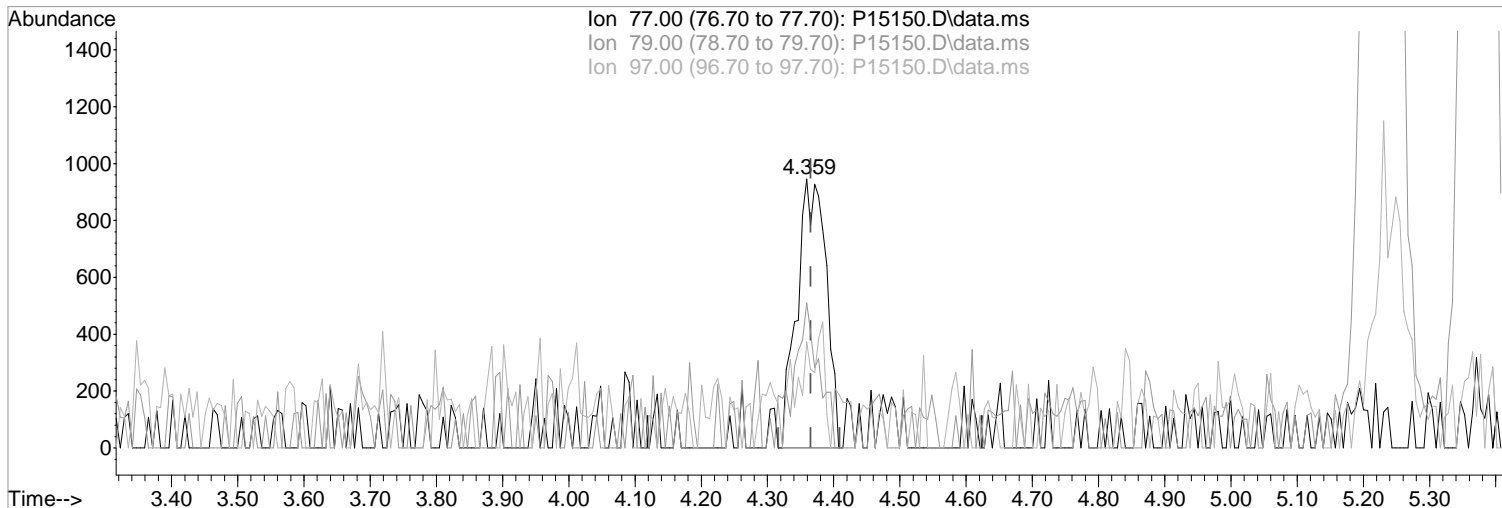
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(33) 2,2-Dichloropropane  
4.359min (-0.006) 0.60 ppb m  
response 2888

Manual Integration:

After

Poor integration.

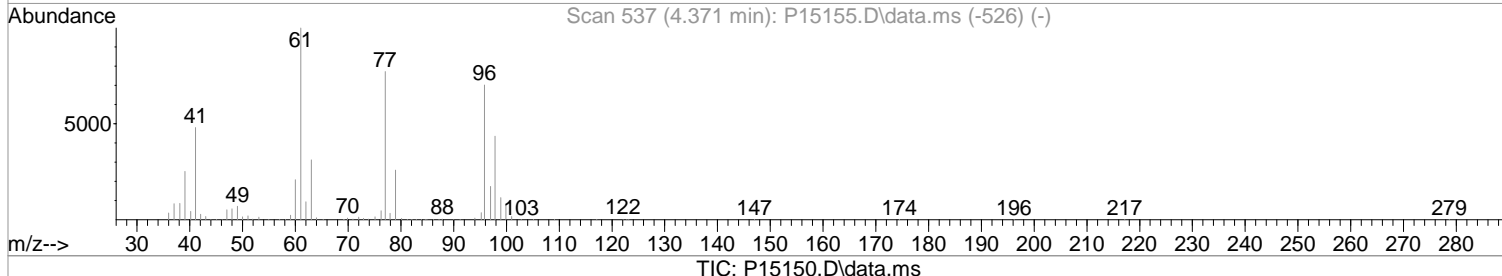
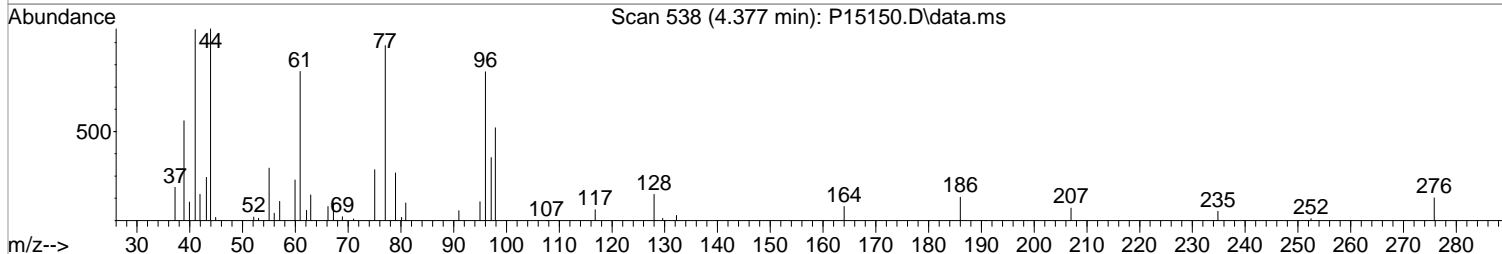
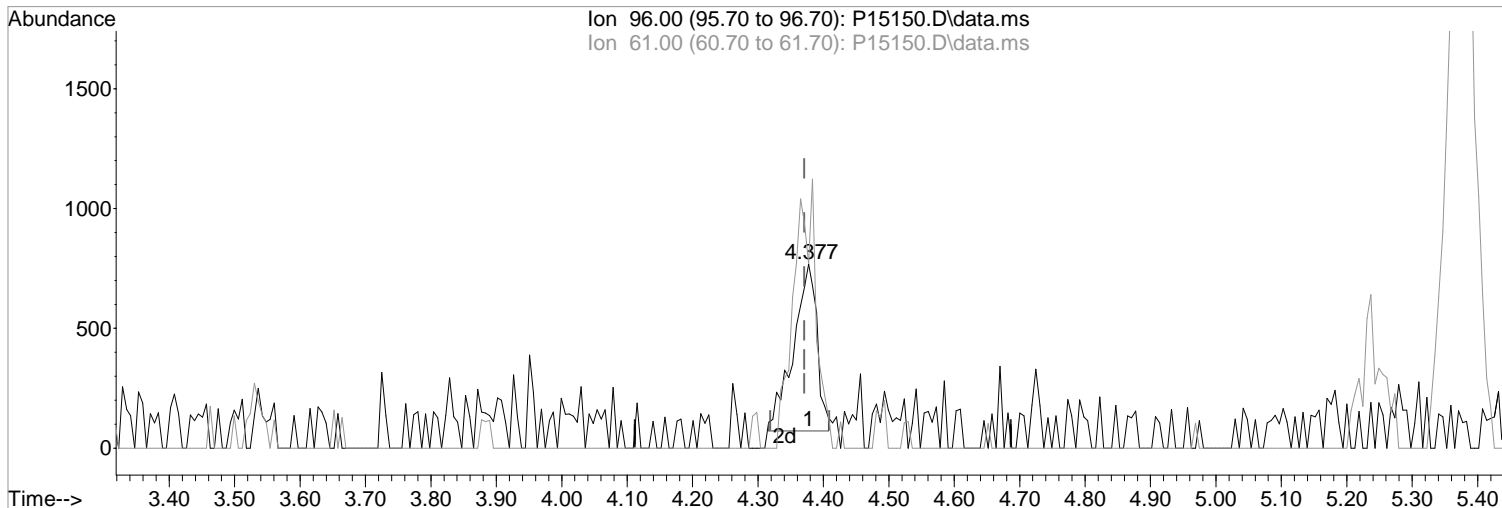
01/02/18

Ion	Exp%	Act%
77.00	100	100
79.00	32.10	53.91#
97.00	20.60	39.43
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.49 ppb m  
response 1739

Ion	Exp%	Act%
96.00	100	100
61.00	142.80	100.26#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

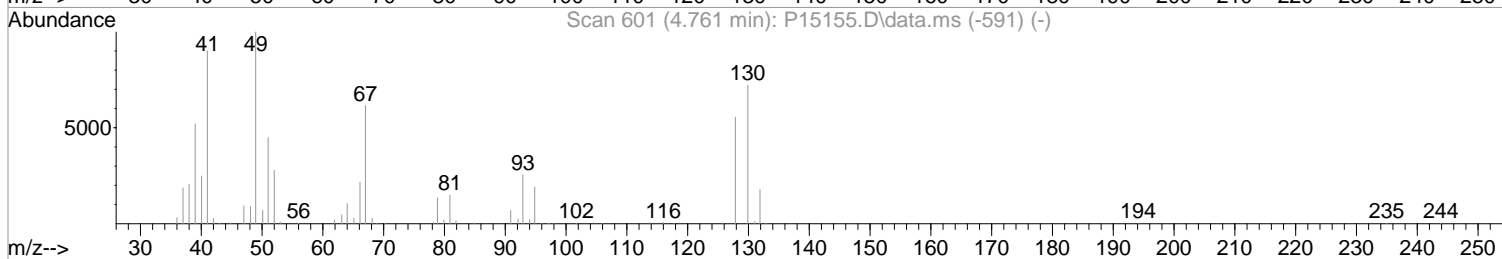
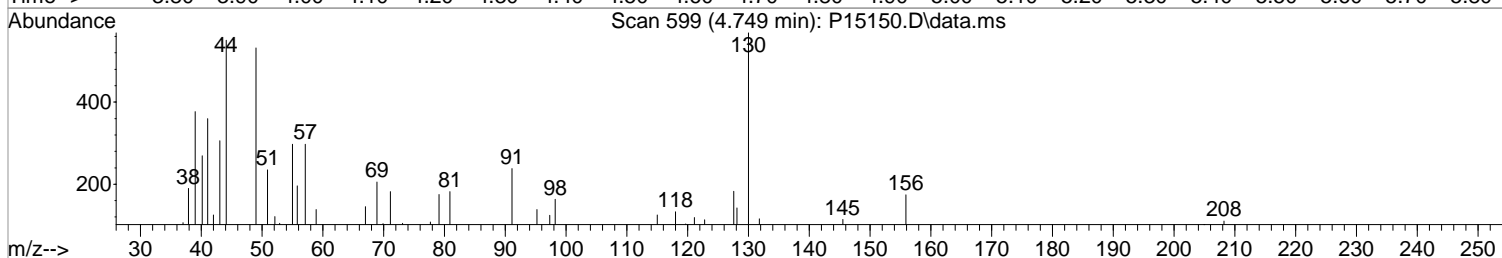
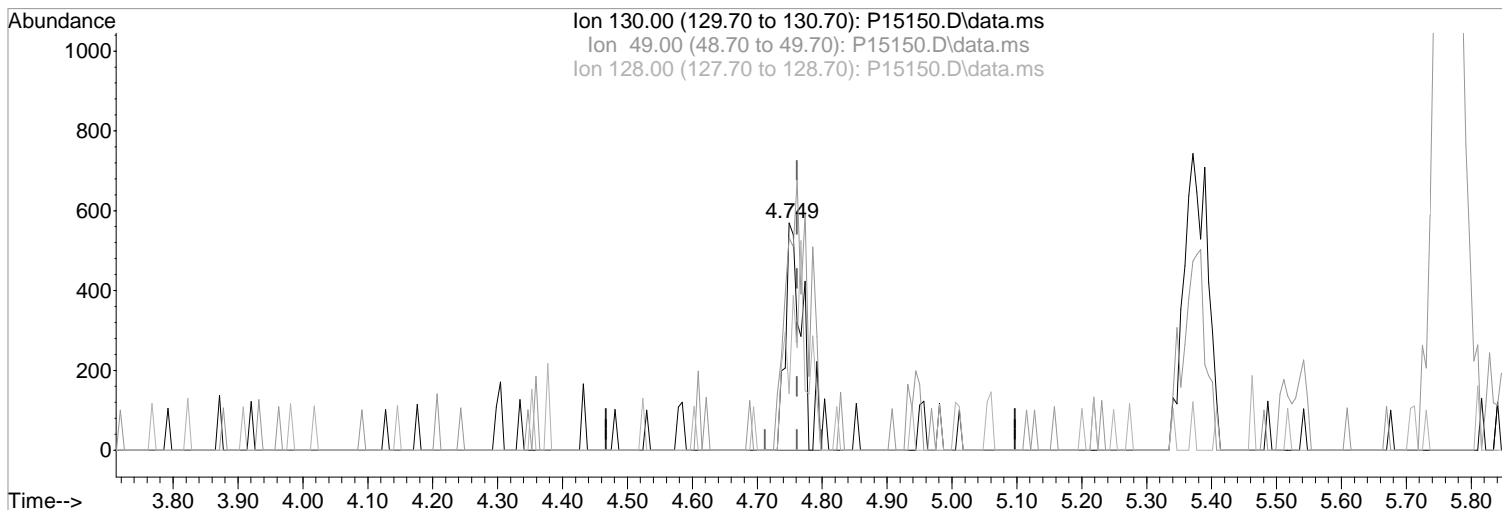
After

Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1  
Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane

4.749min (-0.012) 0.52 ppb m  
response 1011

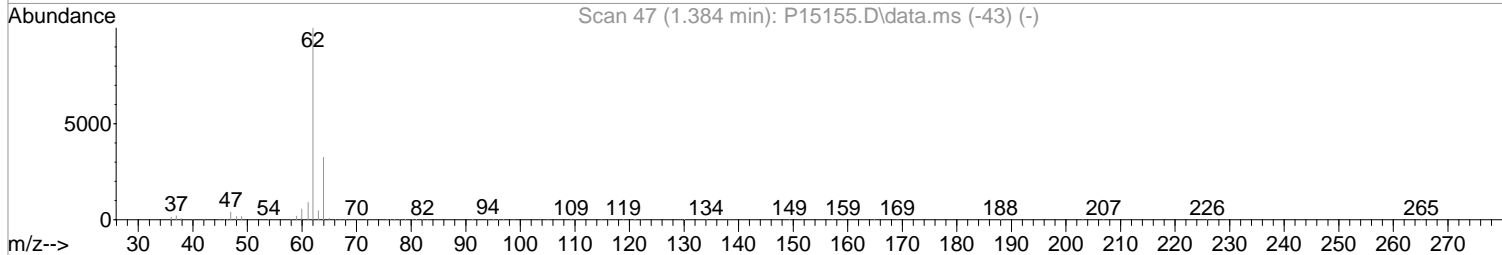
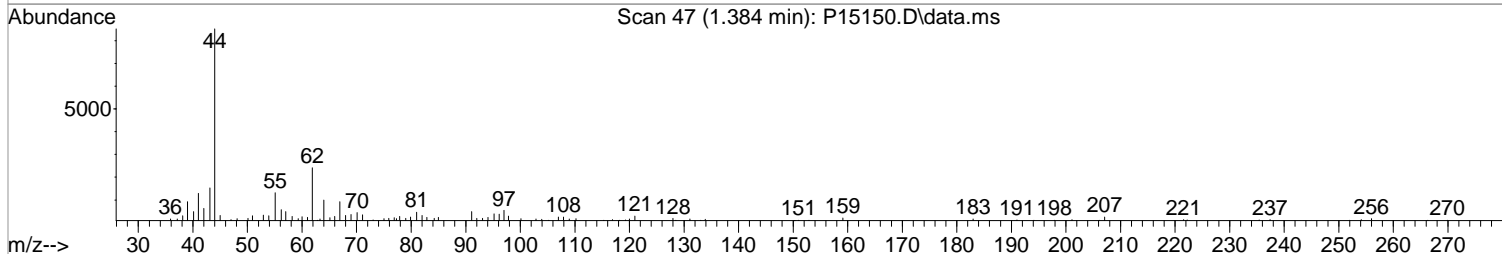
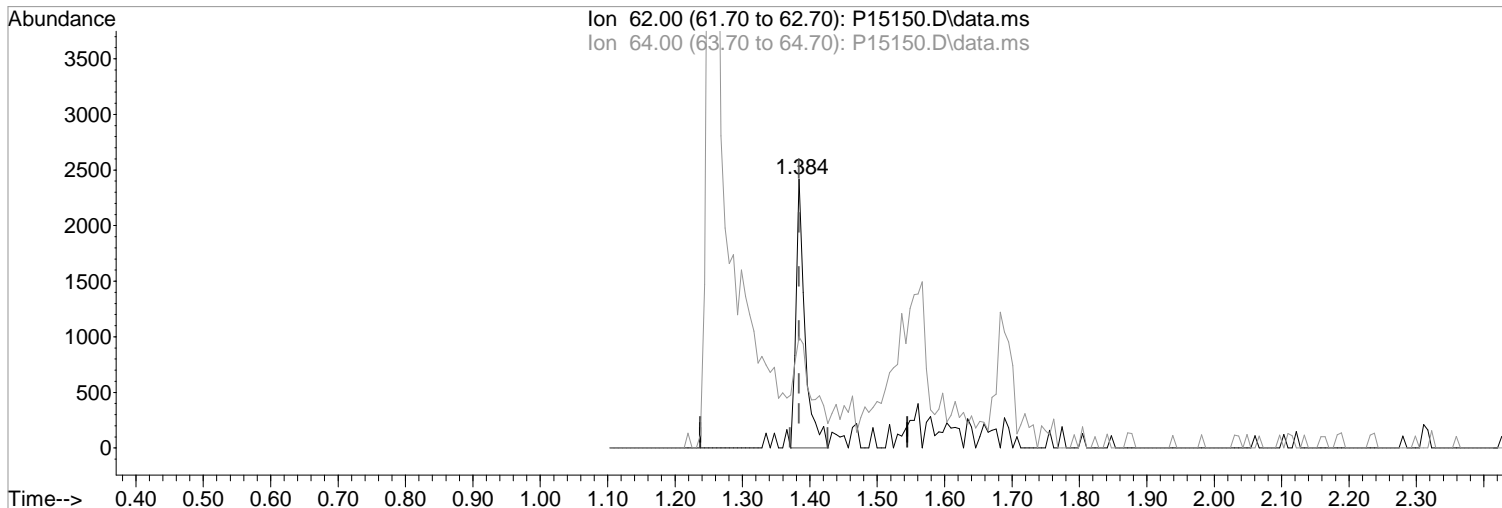
Ion	Exp%	Act%
130.00	100	100
49.00	139.00	93.50#
128.00	77.10	24.96#
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(4) Vinyl Chloride (P)  
1.384min (+0.000) 0.53 ppb m  
response 2220

Manual Integration:

After

Poor integration.

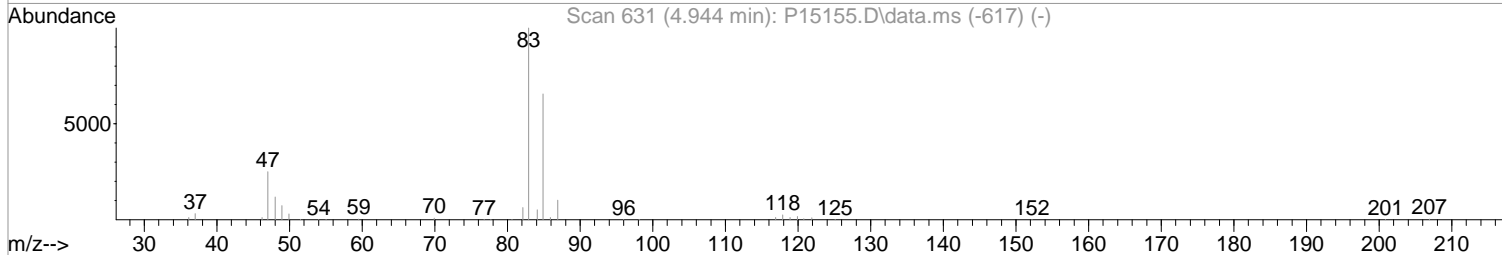
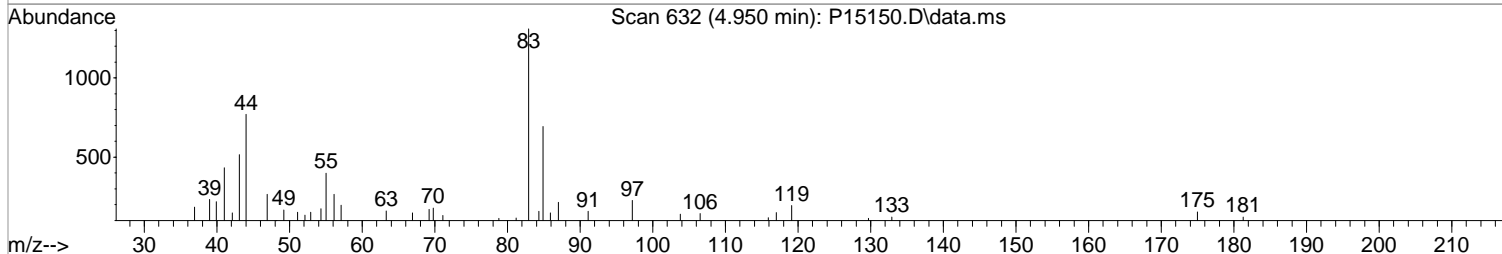
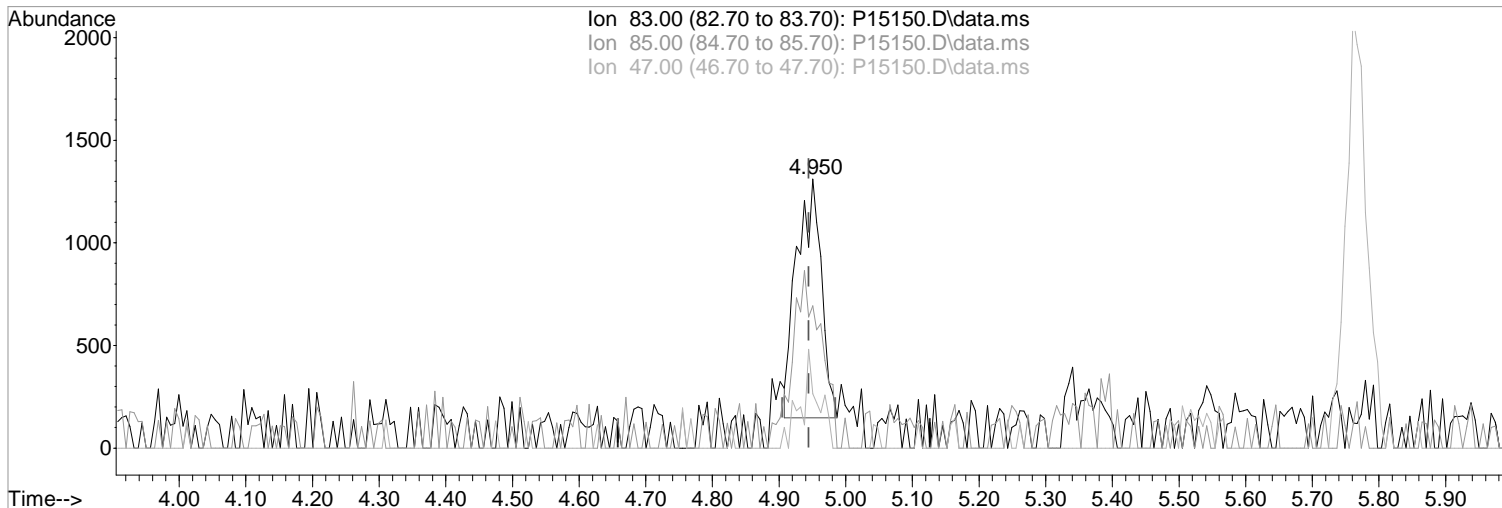
01/02/18

Ion	Exp%	Act%
62.00	100	100
64.00	32.80	41.30
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15150.D\data.ms

(40) Chloroform (P)

4.950min (+0.006) 0.51 ppb m  
response 2984

Manual Integration:

After

Poor integration.

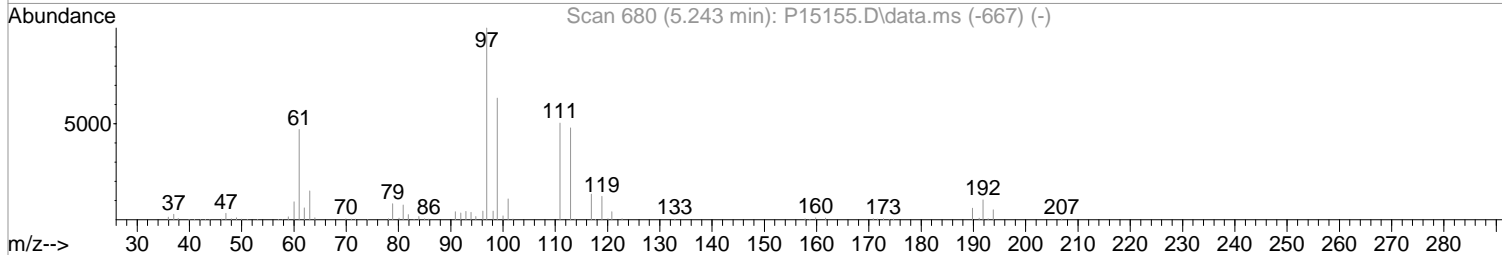
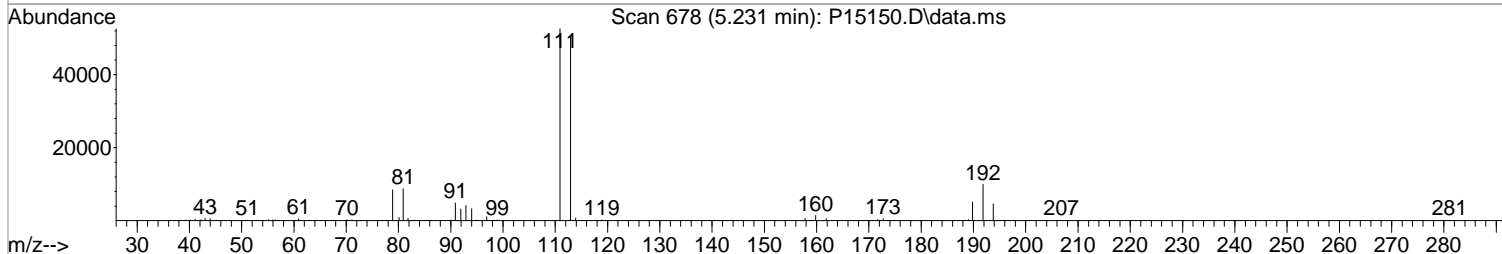
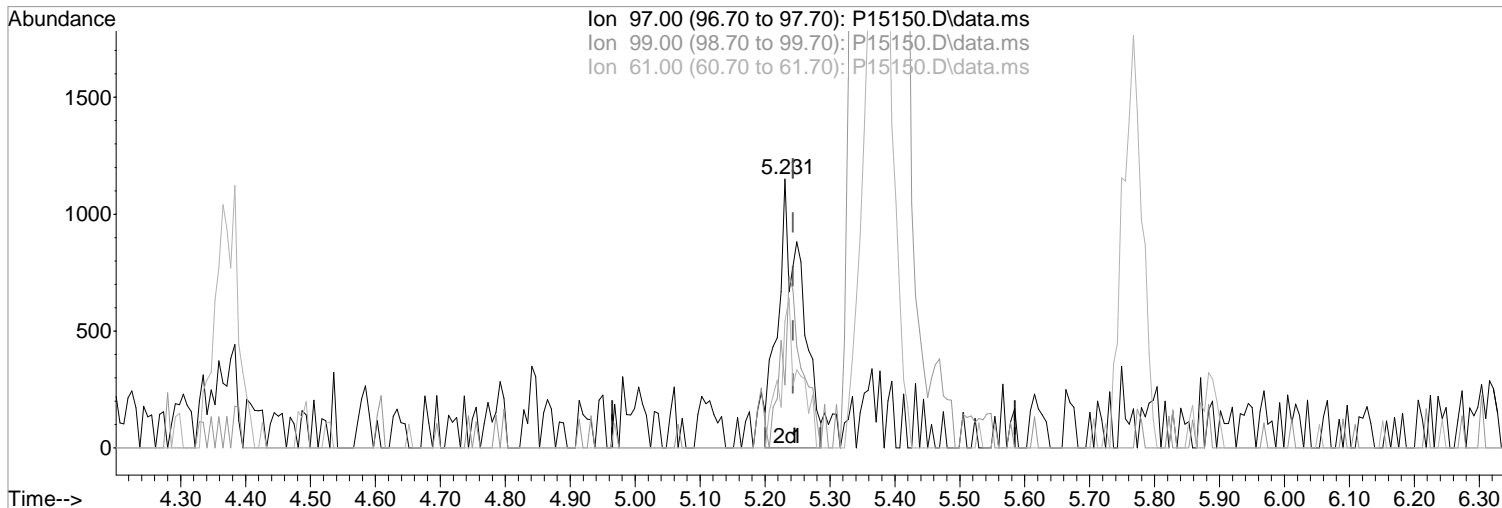
01/02/18

Ion	Exp%	Act%
83.00	100	100
85.00	65.60	52.86
47.00	24.90	20.21
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15150.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.231min (-0.012) 0.61 ppb m  
response 2844

Ion	Exp%	Act%
97.00	100	100
99.00	63.10	23.48#
61.00	46.90	47.13
0.00	0.00	0.00

Manual Integration:

After

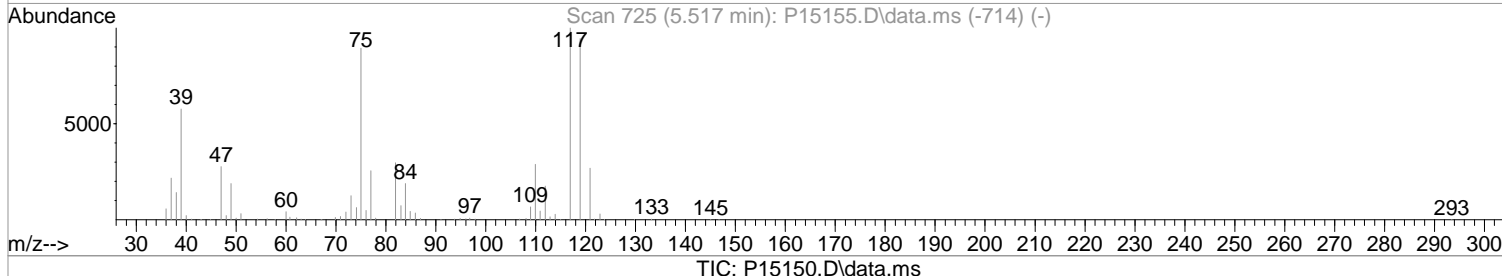
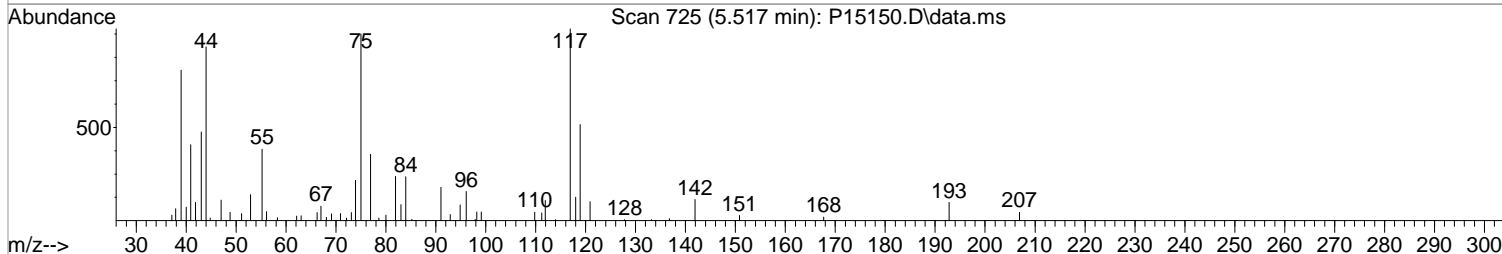
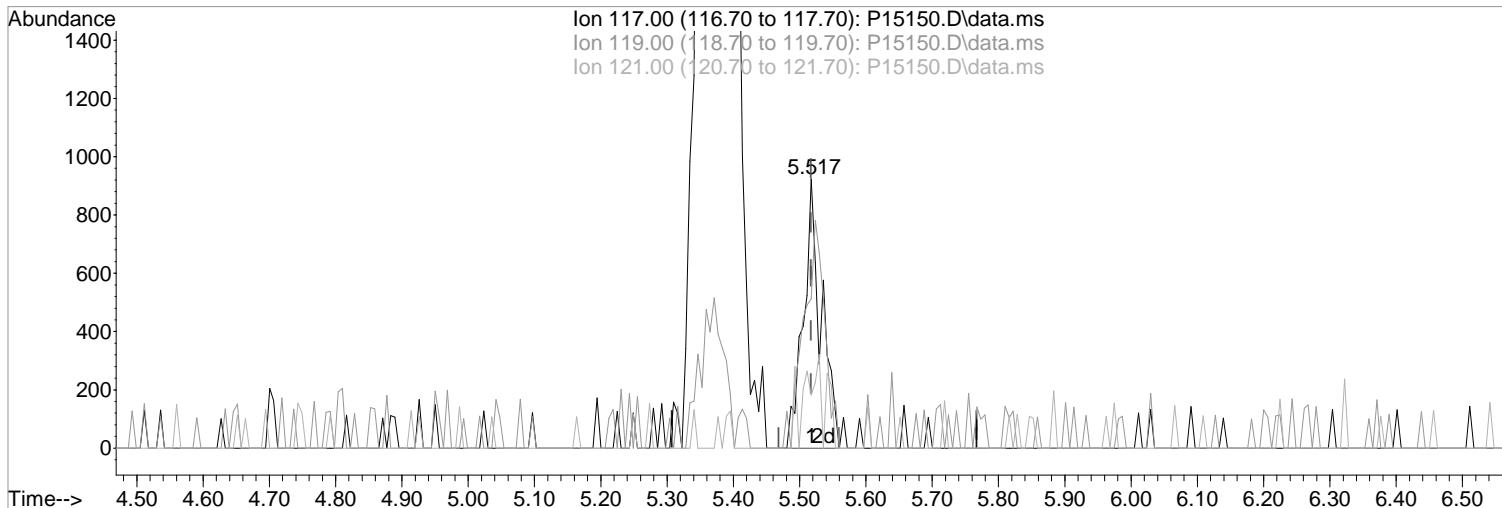
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(46) Carbontetrachloride (P)  
5.517min (+0.000) 0.49 ppb m  
response 1723

Manual Integration:  
After  
Poor integration.

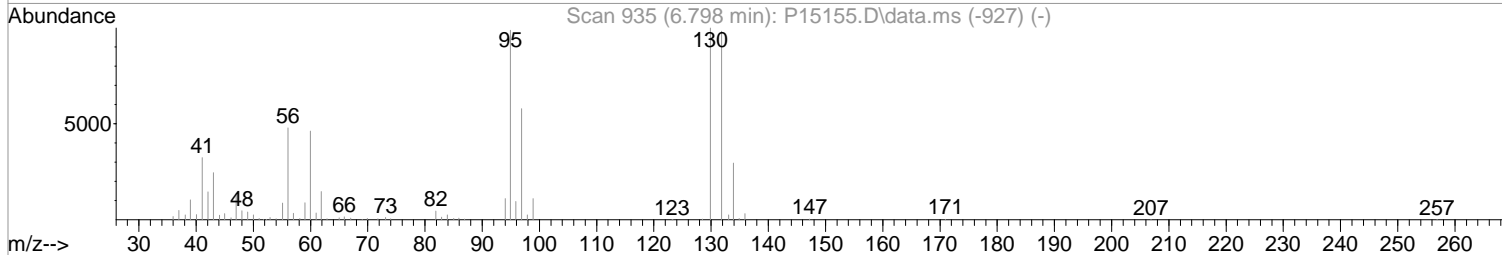
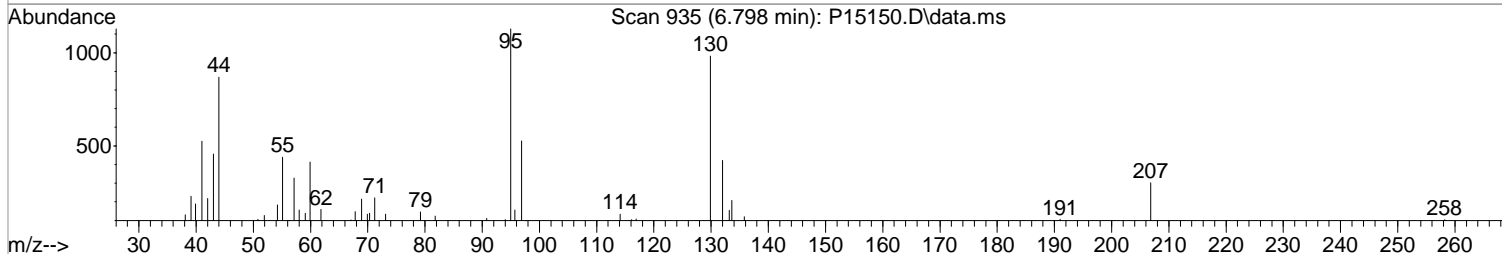
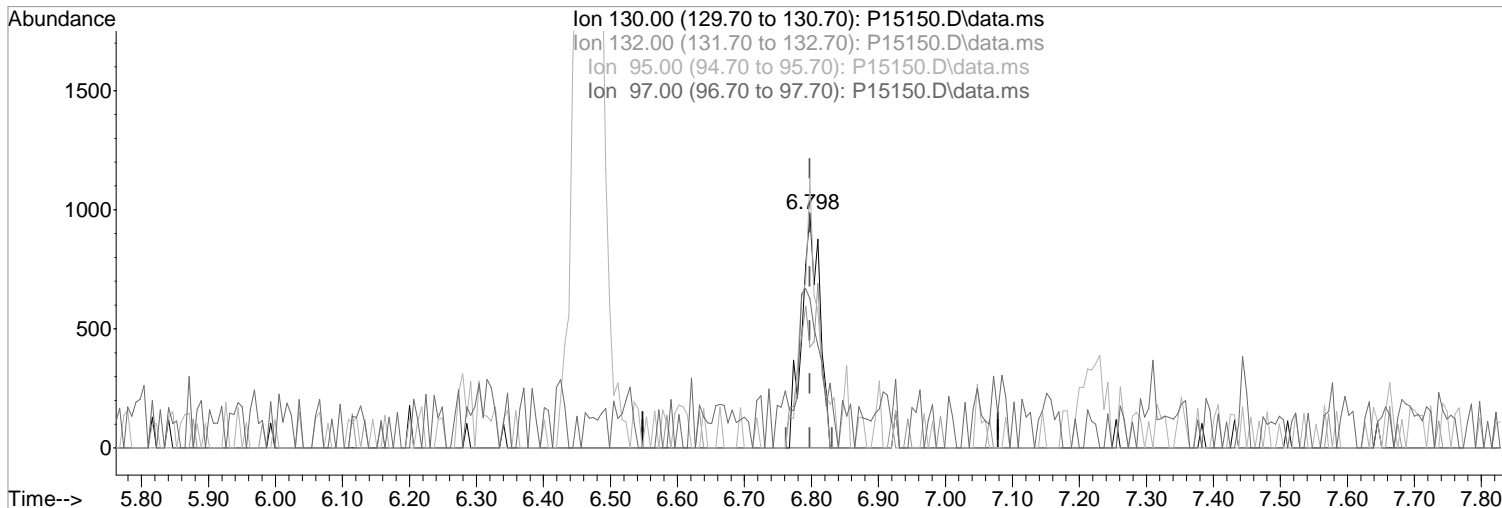
Ion	Exp%	Act%
117.00	100	100
119.00	94.40	55.47#
121.00	26.80	19.72
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(54) Trichloroethene (P)  
6.798min (+0.000) 0.59 ppb m  
response 1823

Manual Integration:

After

Poor integration.

01/02/18

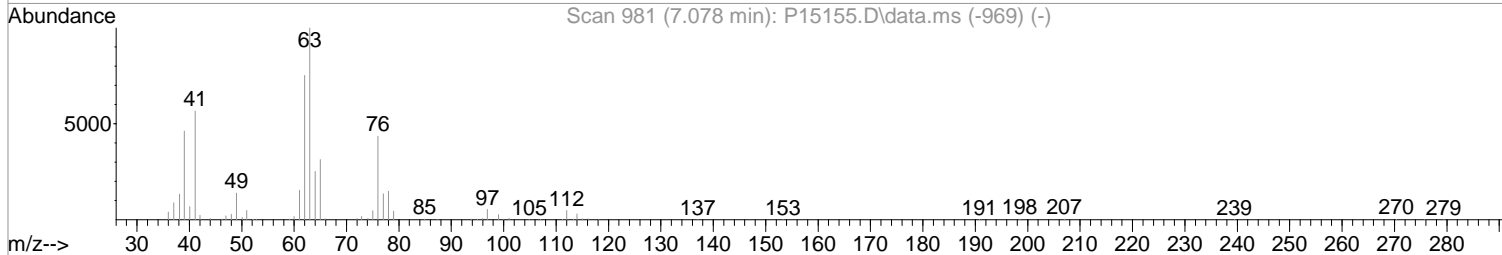
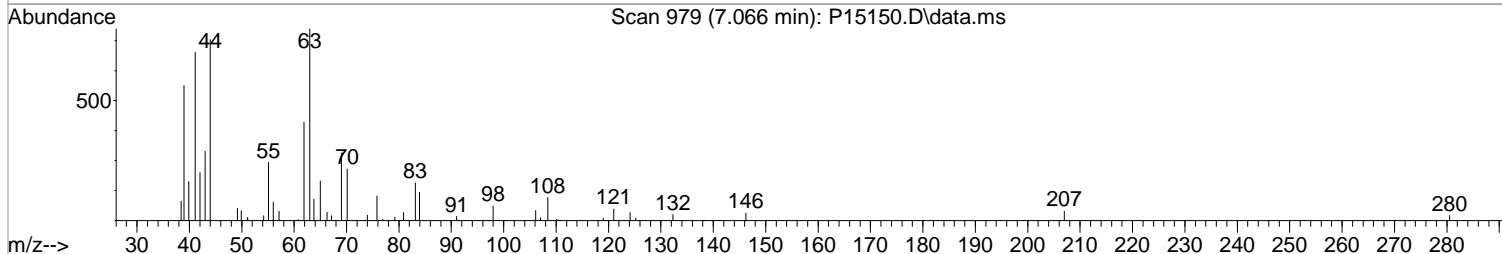
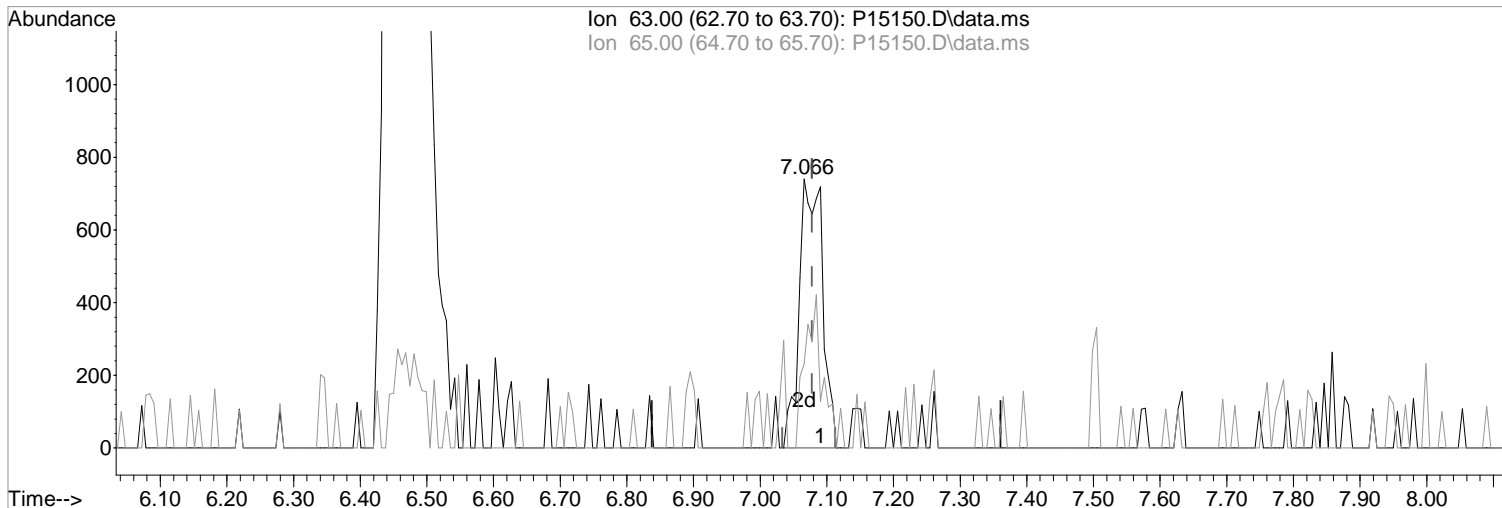
Ion	Exp%	Act%
130.00	100	100
132.00	98.30	43.03#
95.00	98.70	114.85
97.00	58.30	53.61



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(56) 1,2-Dicloropropane (P)  
7.066min (-0.012) 0.55 ppb m  
response 1790

Manual Integration:  
After  
Poor integration.

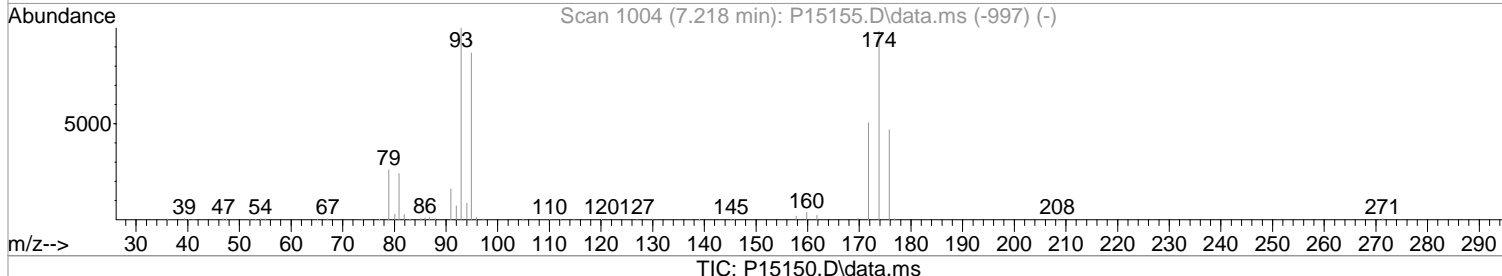
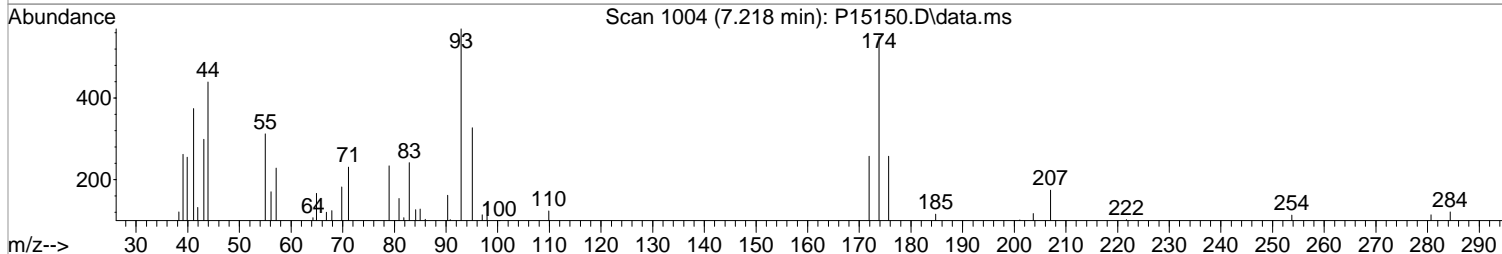
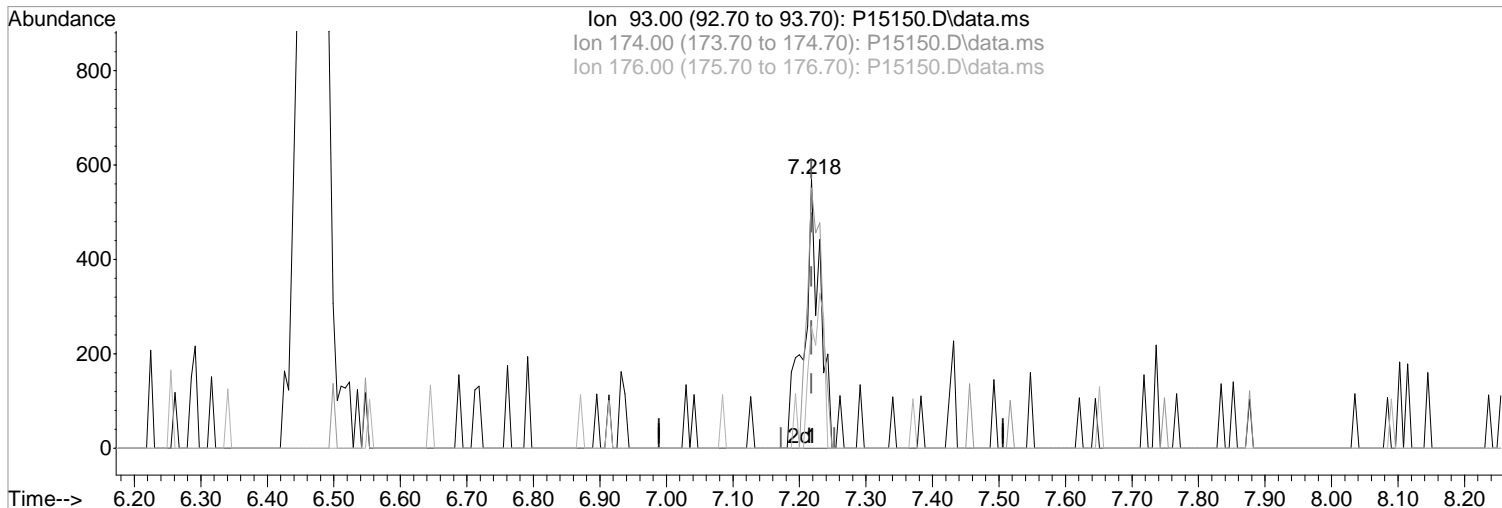
Ion	Exp%	Act%
63.00	100	100
65.00	31.70	31.35
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(57) Dibromomethane

7.218min (+0.000) 0.50 ppb m  
response 969

Ion	Exp%	Act%
93.00	100	100
174.00	98.30	96.67
176.00	46.90	45.09
0.00	0.00	0.00

Manual Integration:

After

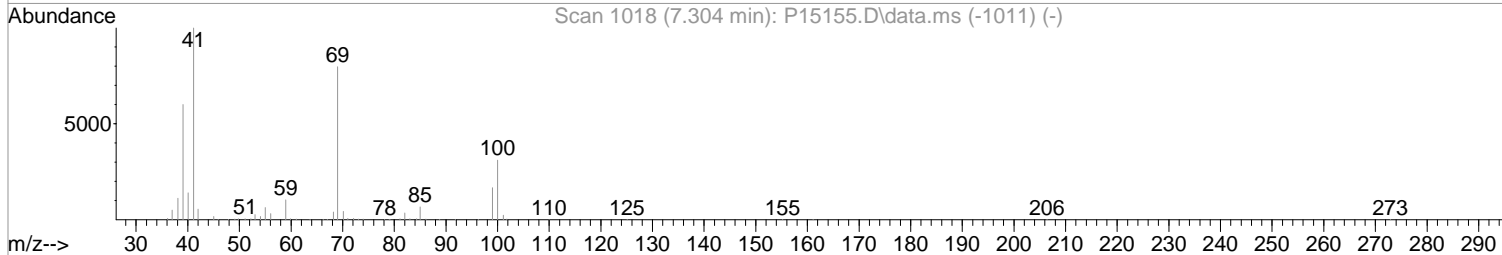
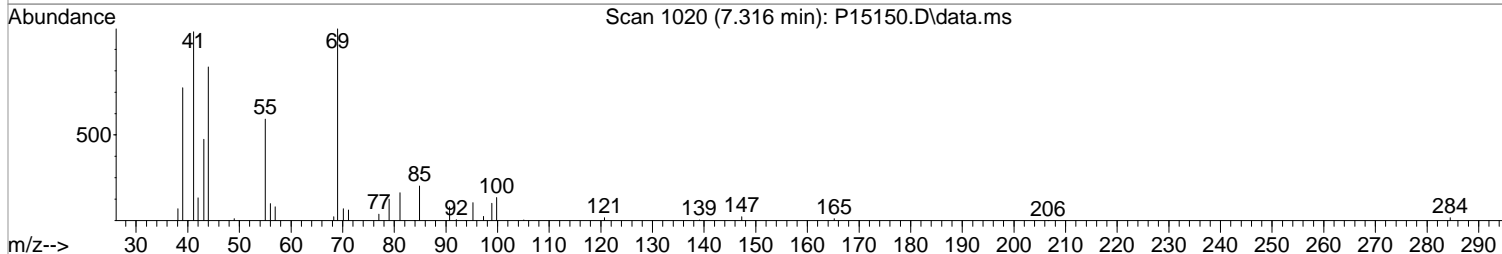
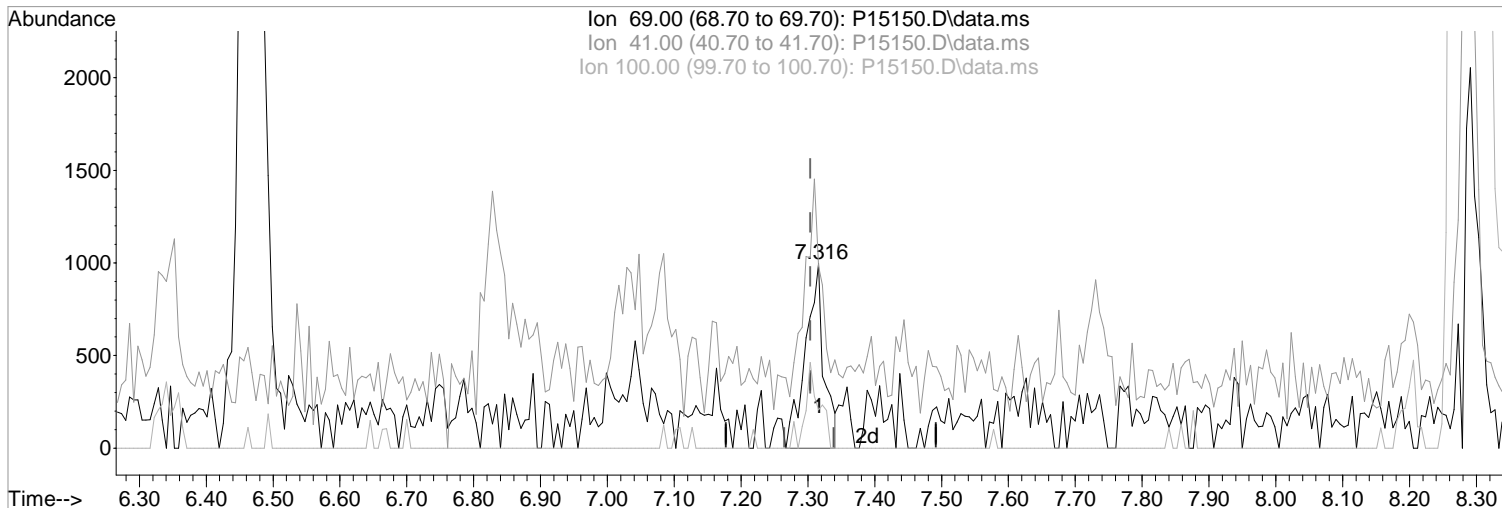
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(59) Methyl Methacrylate  
7.316min (+0.012) 0.64 ppb m  
response 1906

Manual Integration:  
After  
Poor integration.

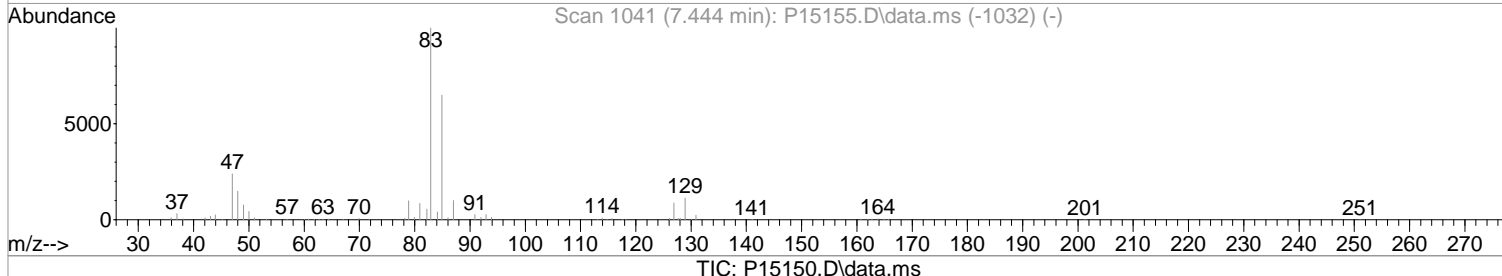
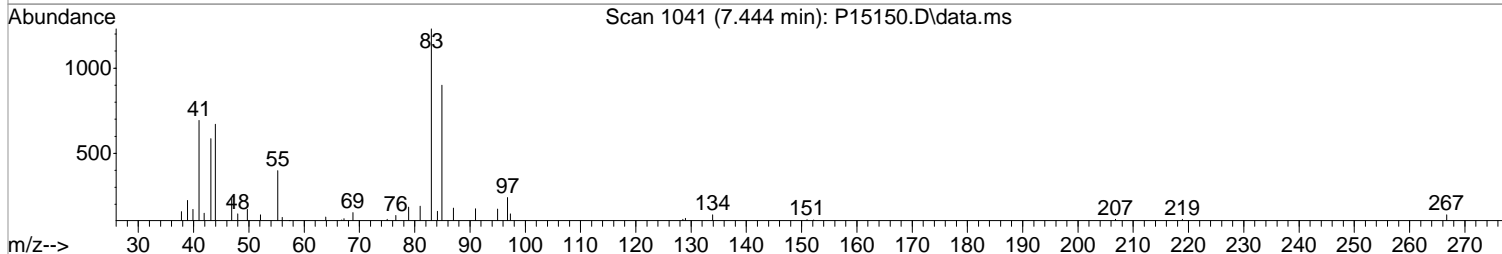
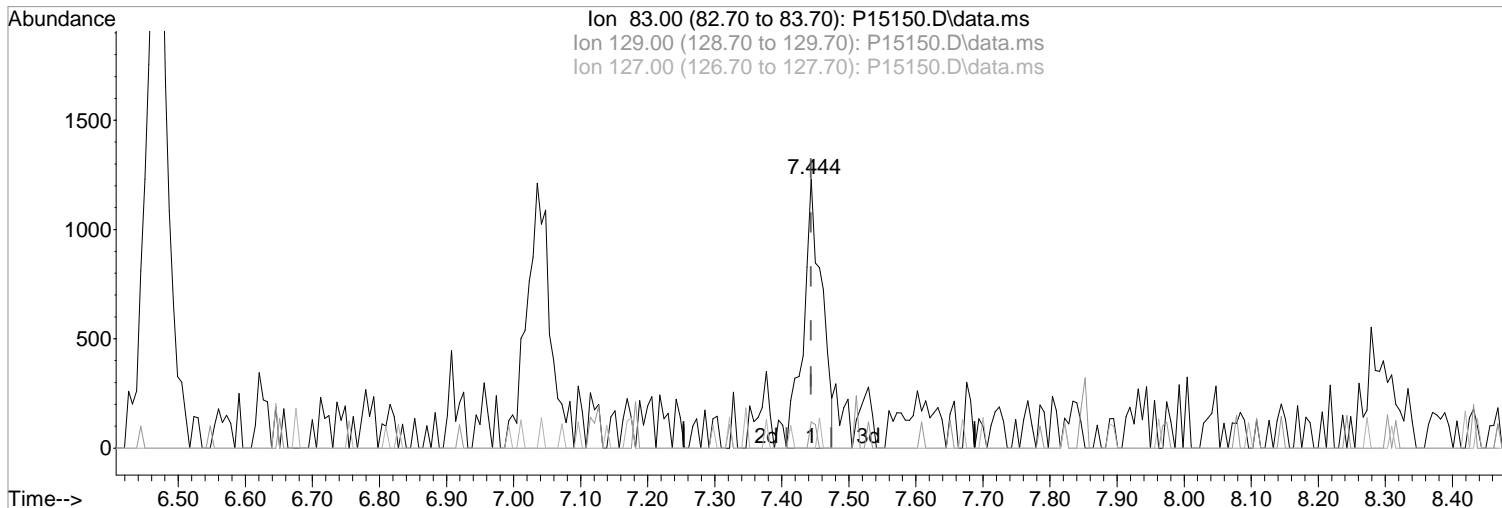
Ion	Exp%	Act%
69.00	100	100
41.00	126.30	98.60#
100.00	38.80	20.76
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(60) Bromodichloromethane (P)

7.444min (+0.000) 0.57 ppb m

response 2345

Ion	Exp%	Act%
83.00	100	100
129.00	11.20	9.67
127.00	9.20	0.00
0.00	0.00	0.00

Manual Integration:

After

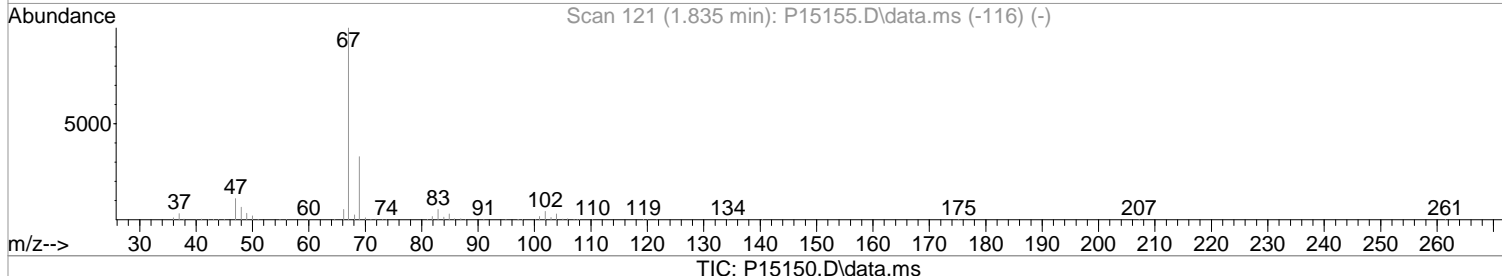
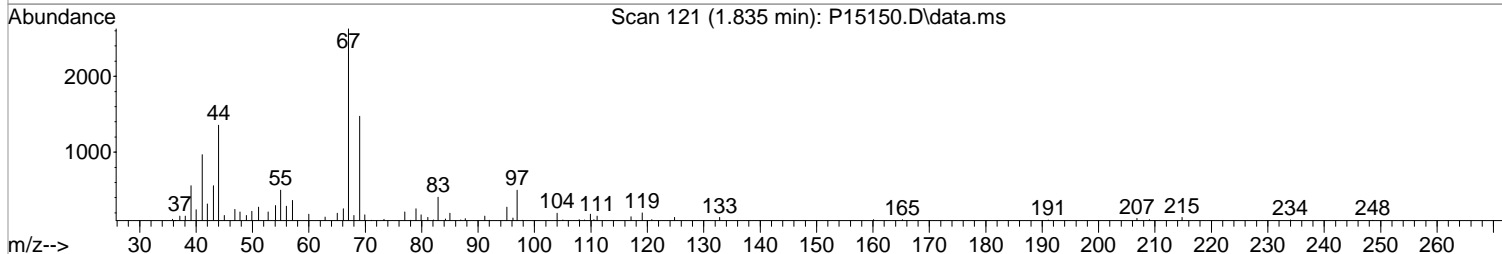
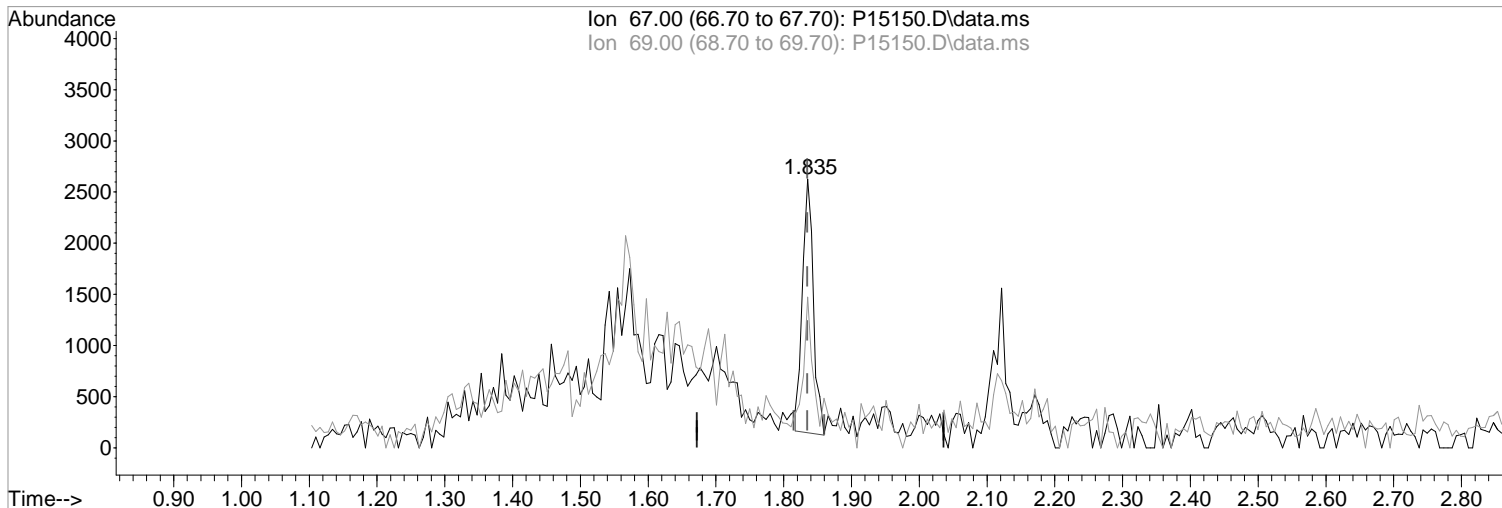
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(7) Freon 21  
1.835min (+0.000) 0.52 ppb m  
response 2803

Manual Integration:  
After  
Poor integration.

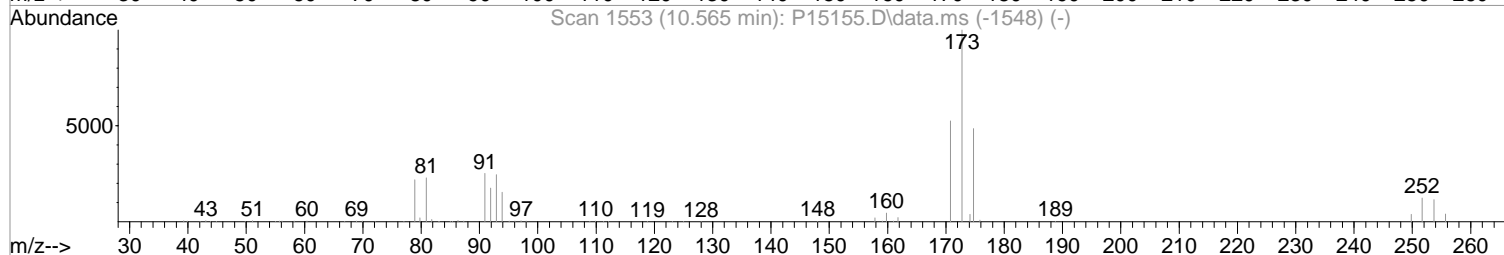
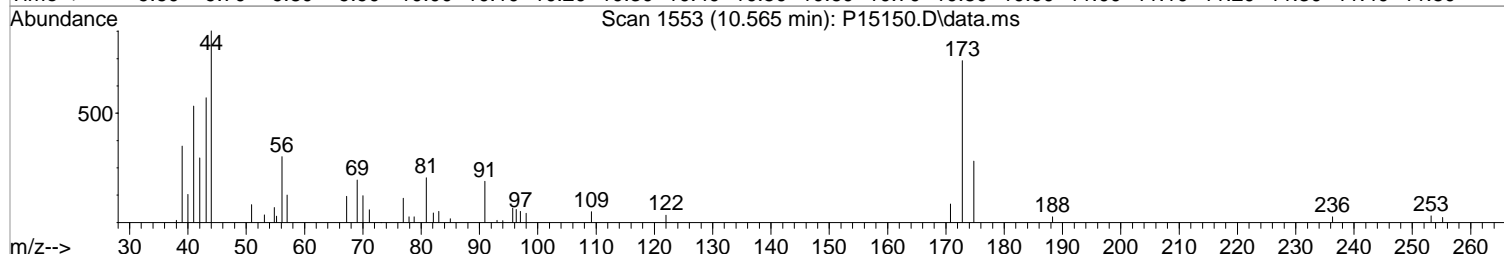
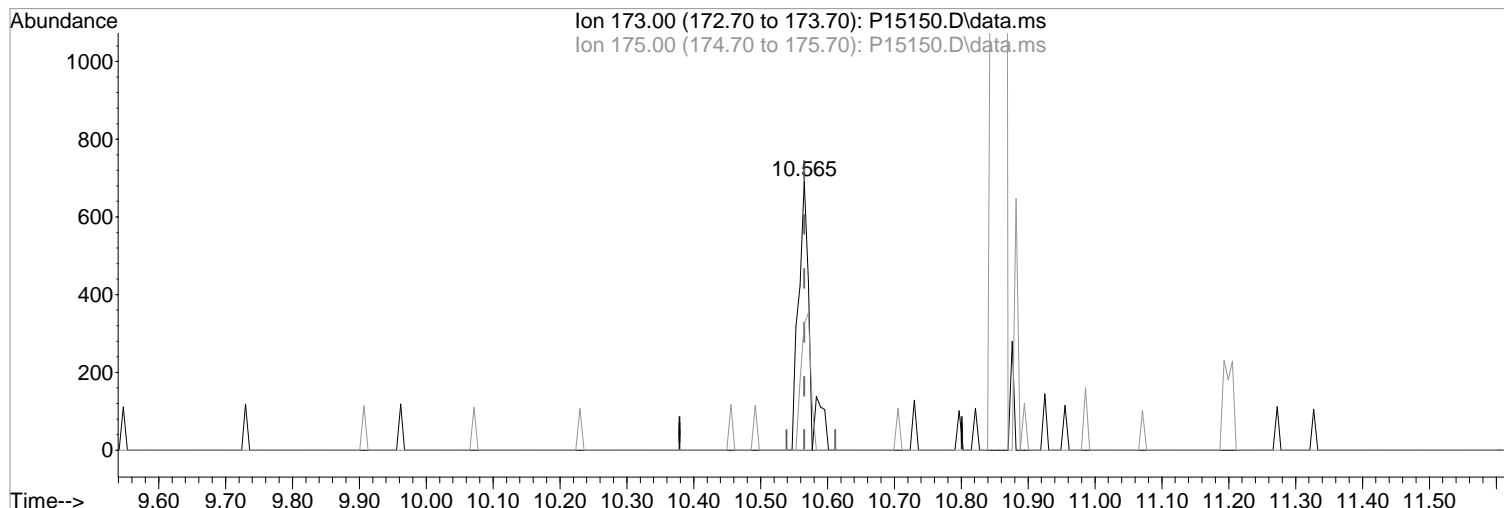
Ion	Exp%	Act%
67.00	100	100
69.00	32.90	56.03#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15150.D  
Acq On : 29 Dec 2017 5:22 pm  
Operator : K.Ruest  
Sample : 0.5ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15150.D\data.ms

(87) Bromoform (P)

10.565min (+0.000) 0.48 ppb m  
response 813

Ion	Exp%	Act%
173.00	100	100
175.00	48.70	46.97
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	282050	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	464403	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	412009	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	195900	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	138045	50.06	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	100.12%			
48) surr1,1,2-dichloroetha...	5.767	65	187998	49.75	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.50%			
65) SURR3,Toluene-d8	8.291	98	605014	49.14	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.28%			
70) SURR2,BFB	10.858	95	229156	48.11	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	96.22%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	1810	0.52	ppb		89
3) Chloromethane	1.311	50	2458	0.57	ppb		83
4) Vinyl Chloride	1.384	62	2220m	0.53	ppb		
5) Bromomethane	1.616	94	2064	0.65	ppb		88
6) Chloroethane	1.683	64	1545	0.59	ppb	#	46
7) Freon 21	1.835	67	2803m	0.52	ppb		
8) Trichlorofluoromethane	1.884	101	2088	0.52	ppb		93
9) Diethyl Ether	2.122	59	1432	0.51	ppb	#	67
10) Freon 123a	2.122	67	1826m	0.54	ppb		
11) Freon 123	2.170	83	2327	0.59	ppb		87
12) Acrolein	2.219	56	2121	2.54	ppb		100
13) 1,1-Dicethene	2.305	96	1971	0.68	ppb	#	84
14) Freon 113	2.305	101	1528	0.56	ppb	#	54
16) 2-Propanol	2.481	45	3548	10.75	ppb	#	43
18) Carbon Disulfide	2.494	76	4735	0.56	ppb		97
20) Allyl Chloride	2.634	76	939	0.61	ppb	#	92
21) Methyl Acetate	2.658	43	1844	0.60	ppb		88
22) Methylene Chloride	2.750	84	1602	0.52	ppb		95
23) TBA	2.871	59	5850	10.29	ppb		67
24) Acrylonitrile	3.006	53	4397	2.66	ppb		89
25) Methyl-t-Butyl Ether	3.054	73	5166	0.50	ppb	#	59
26) trans-1,2-Dichloroethene	3.048	96	1580	0.52	ppb		97
28) 1,1-Dicethane	3.536	63	2884	0.53	ppb		83
29) Vinyl Acetate	3.621	86	647	0.73	ppb	#	1
30) DIPE	3.664	45	5558	0.54	ppb		94
31) 2-Chloro-1,3-Butadiene	3.670	53	3269	0.62	ppb		78
32) ETBE	4.176	59	5602	0.54	ppb		87
33) 2,2-Dichloropropane	4.359	77	2888m	0.60	ppb		
34) cis-1,2-Dichloroethene	4.377	96	1739m	0.49	ppb		
36) Propionitrile	4.505	54	1898	2.71	ppb	#	18
37) Bromochloromethane	4.749	130	1011m	0.52	ppb		
38) Methacrylonitrile	4.767	67	1026	0.56	ppb		98
40) Chloroform	4.950	83	2984m	0.51	ppb		
41) 1,1,1-Trichloroethane	5.231	97	2844m	0.61	ppb		
42) TAME	6.090	73	5239	0.51	ppb		98
46) Carbontetrachloride	5.517	117	1723m	0.49	ppb		
47) 1,1-Dichloropropene	5.517	75	2124	0.52	ppb		73
49) Benzene	5.847	78	6936	0.57	ppb		88
50) 1,2-Dichloroethane	5.883	62	2410	0.54	ppb		78

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Iso-Butyl Alcohol	5.853	43	2000	8.13	ppb	99
52) n-Heptane	6.322	43	2697	0.64	ppb #	64
53) 1-Butanol	6.834	56	3870	23.77	ppb	75
54) Trichloroethene	6.798	130	1823m	0.59	ppb	
55) Methylcyclohexane	7.035	55	2009	0.50	ppb #	78
56) 1,2-Diclpropane	7.066	63	1790m	0.55	ppb	
57) Dibromomethane	7.218	93	969m	0.50	ppb	
58) 1,4-Dioxane	7.279	88	665	10.41	ppb #	51
59) Methyl Methacrylate	7.316	69	1906m	0.64	ppb	
60) Bromodichloromethane	7.444	83	2345m	0.57	ppb	
61) 2-Nitropropane	7.730	41	1314	1.05	ppb #	74
63) cis-1,3-Dichloropropene	7.992	75	2789	0.54	ppb #	77
66) Toluene	8.364	91	7308	0.55	ppb	81
67) trans-1,3-Dichloropropene	8.633	75	2247	0.47	ppb	83
68) Ethyl Methacrylate	8.773	69	1834	0.38	ppb	96
69) 1,1,2-Trichloroethane	8.815	97	1894	0.63	ppb	83
72) Tetrachloroethene	8.968	164	1266	0.56	ppb #	36
74) 1,3-Dichloropropene	8.986	76	2746	0.52	ppb #	68
75) Dibromochloromethane	9.212	129	1244	0.45	ppb	93
76) N-Butyl Acetate	9.279	43	2105	0.37	ppb	91
77) 1,2-Dibromoethane	9.315	107	1446	0.49	ppb	94
78) Chlorobenzene	9.809	112	3984	0.49	ppb	88
79) 3-CBTF	9.827	180	2614	0.61	ppb #	80
80) 4-CBTF	9.882	180	2335	0.59	ppb	92
81) 1,1,1,2-Tetrachloroethane	9.895	131	1547	0.54	ppb #	77
82) Ethylbenzene	9.931	106	2253	0.51	ppb #	63
83) (m+p)Xylene	10.041	106	5183	0.96	ppb #	78
84) o-Xylene	10.400	106	2802	0.52	ppb #	69
85) Styrene	10.413	104	4502	0.50	ppb	88
87) Bromoform	10.565	173	813m	0.48	ppb	
88) 2-CBTF	10.644	180	2277	0.59	ppb	91
89) Isopropylbenzene	10.736	105	7002	0.54	ppb	93
90) Cyclohexanone	10.797	55	9162	9.36	ppb	88
91) trans-1,4-Dichloro-2-B...	11.041	53	754	0.74	ppb	90
92) 1,1,2,2-Tetrachloroethane	10.998	83	2299	0.59	ppb #	77
93) Bromobenzene	10.986	156	1549	0.49	ppb	95
94) 1,2,3-Trichloropropene	11.022	110	607	0.48	ppb #	70
95) n-Propylbenzene	11.089	91	7874	0.53	ppb	86
96) 2-Chlorotoluene	11.156	91	5026	0.54	ppb	90
97) 3-Chlorotoluene	11.211	91	5127	0.52	ppb #	94
98) 4-Chlorotoluene	11.248	91	5876	0.55	ppb	91
99) 1,3,5-Trimethylbenzene	11.248	105	5889	0.55	ppb	97
100) tert-Butylbenzene	11.516	119	5013	0.54	ppb	87
101) 1,2,4-Trimethylbenzene	11.559	105	5745	0.53	ppb	76
102) 3,4-DCBTF	11.620	214	1903	0.61	ppb #	85
103) sec-Butylbenzene	11.699	105	7365	0.54	ppb	98
104) p-Isopropyltoluene	11.821	119	6240	0.54	ppb	89
105) 1,3-Dclbenz	11.784	146	3286	0.55	ppb	85
106) 1,4-Dclbenz	11.858	146	3509	0.56	ppb	96
107) 2,4-DCBTF	11.906	214	1816	0.63	ppb #	65
108) 2,5-DCBTF	11.949	214	1675	0.55	ppb #	87
109) n-Butylbenzene	12.156	91	5699	0.53	ppb #	78
110) 1,2-Dclbenz	12.162	146	2831	0.47	ppb	86
111) 1,2-Dibromo-3-chloropr...	12.790	157	383m	0.39	ppb	
112) Trielution Dichlorotol...	12.906	125	9592	1.63	ppb	94
113) 1,3,5 Trichlorobenzene	12.955	180	2514	0.54	ppb #	88



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 2 Sample Multiplier: 1

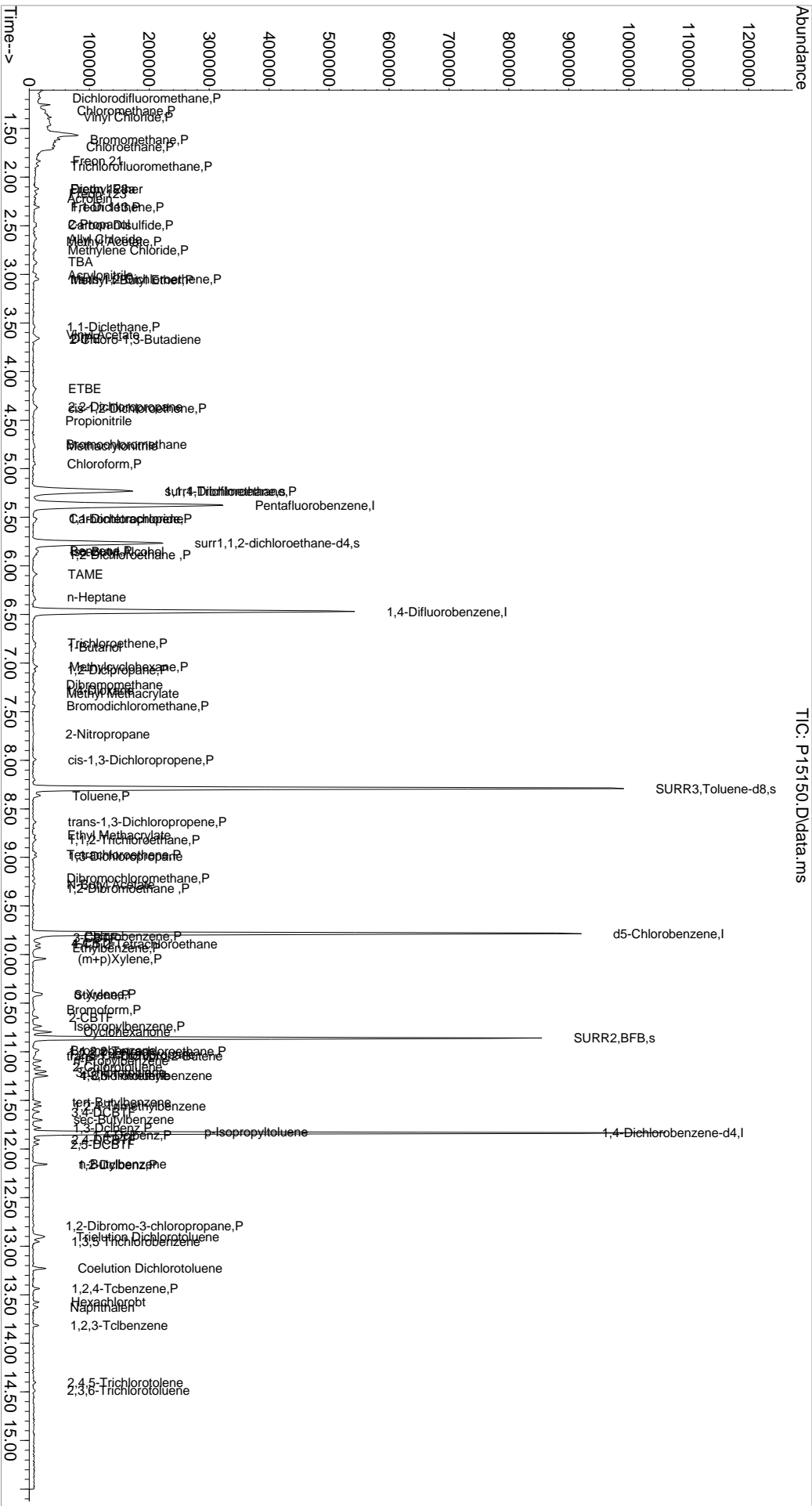
Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 *N* 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
114) Coelution Dichlorotoluene	13.229	125	5958	0.95	ppb #	87
115) 1,2,4-Tcbenzene	13.437	180	2068	0.48	ppb	82
116) Hexachlorobt	13.577	225	1216	0.60	ppb #	86
117) Naphthalen	13.625	128	4879	0.41	ppb	95
118) 1,2,3-Tclbenzene	13.814	180	1962	0.46	ppb #	74
119) 2,4,5-Trichlorotolene	14.400	159	747	0.29	ppb #	82
120) 2,3,6-Trichlorotoluene	14.485	159	561	0.24	ppb #	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15150.D  
 Acq On : 29 Dec 2017 5:22 pm  
 Operator : K.Ruest  
 Sample : 0.5ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 2 Sample Multiplier: 1  
 Inst : MSVOA-12

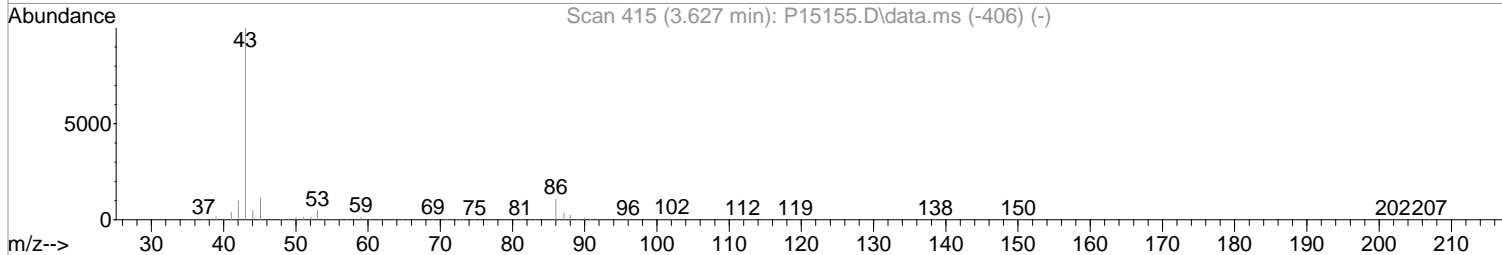
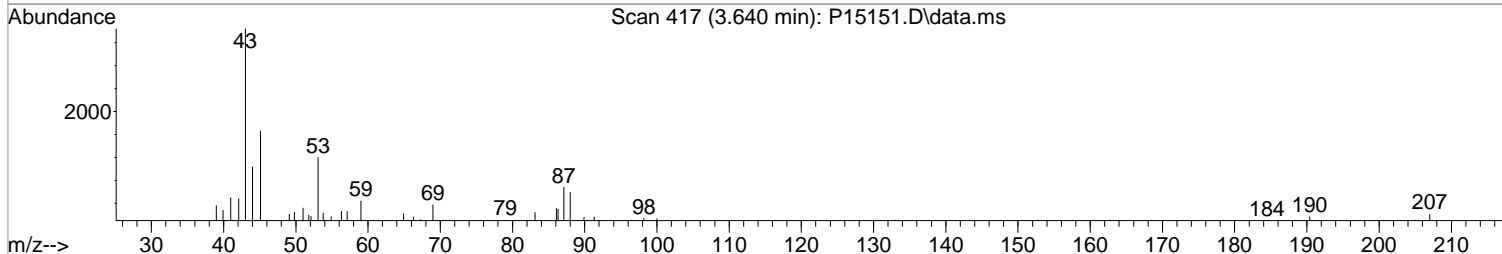
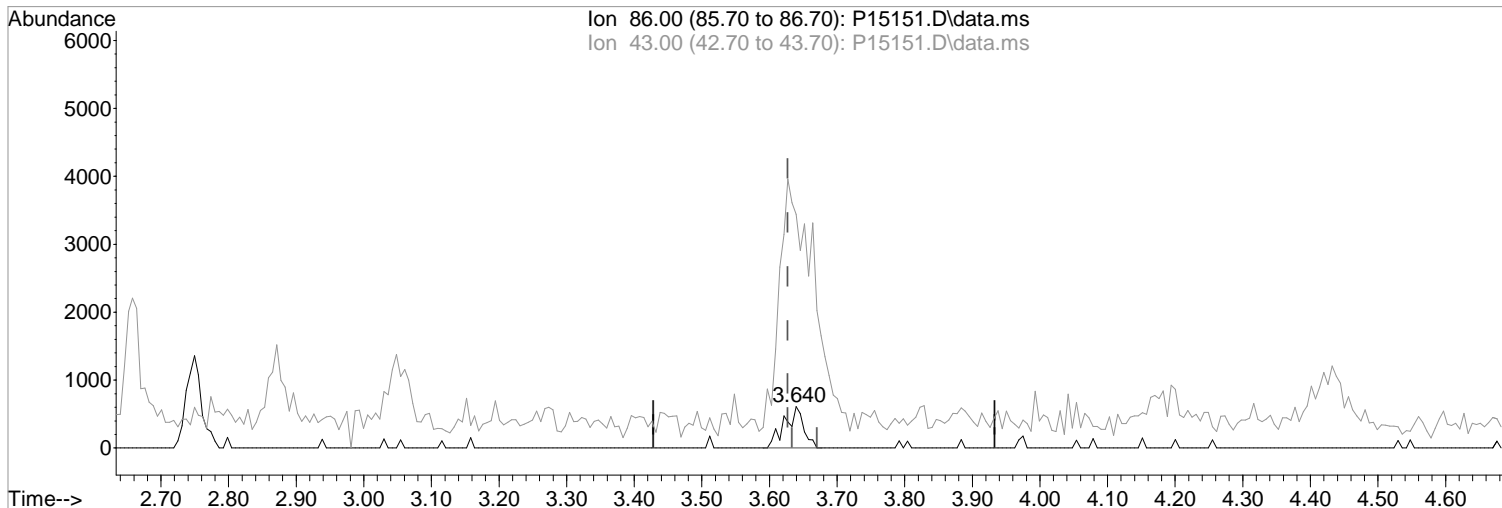
Quant Time: Jan 02 10:20:59 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Quant Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(29) Vinyl Acetate  
3.640min (+0.012) 1.32 ppb m  
response 1198

Manual Integration:

After

Split Peak

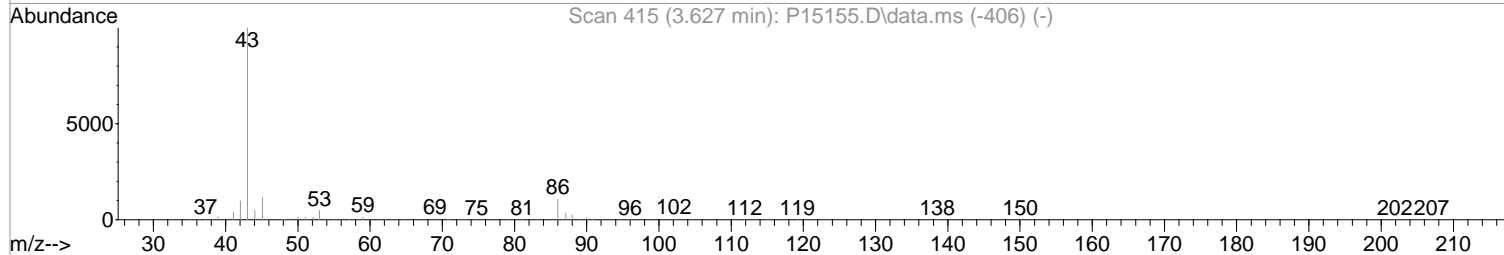
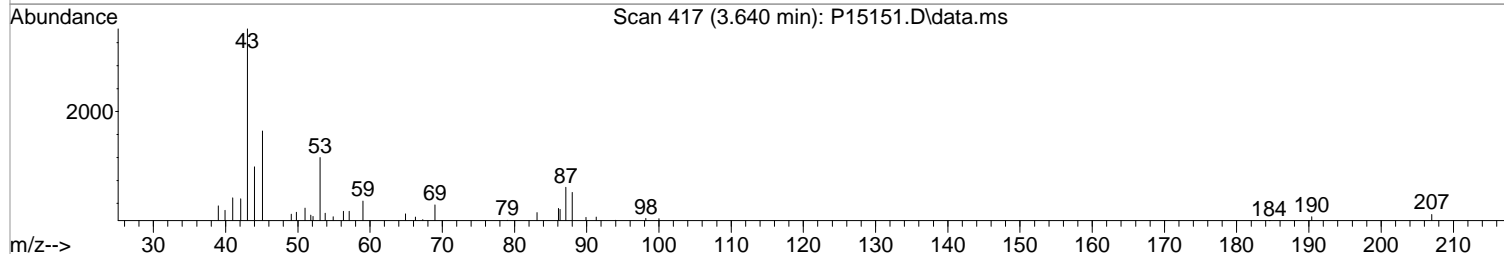
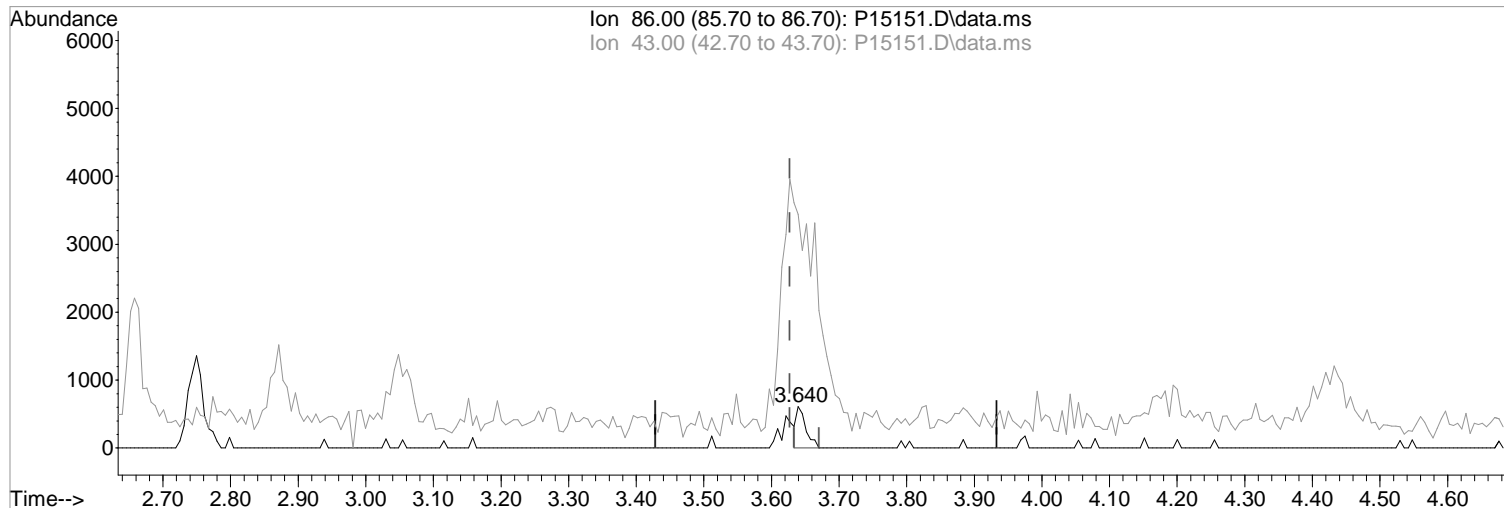
01/02/18

Ion	Exp%	Act%
86.00	100	100
43.00	952.00	1096.50#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(29) Vinyl Acetate  
3.640min (+0.012) 0.65 ppb  
response 586

Manual Integration:  
Before

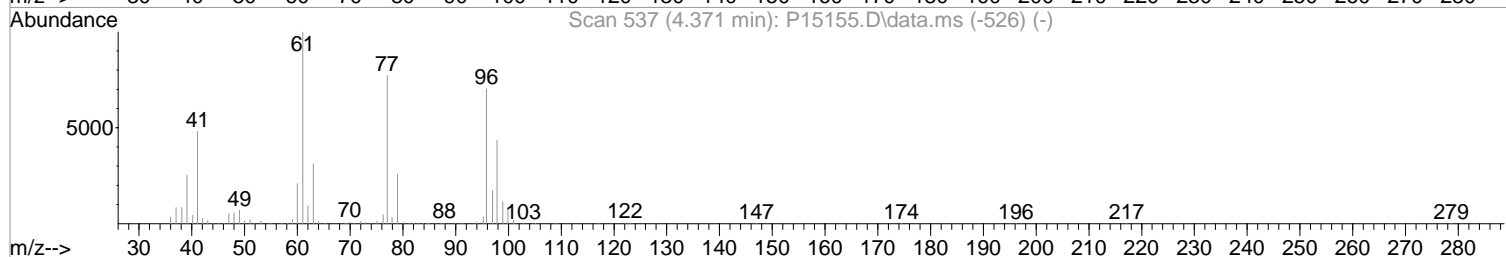
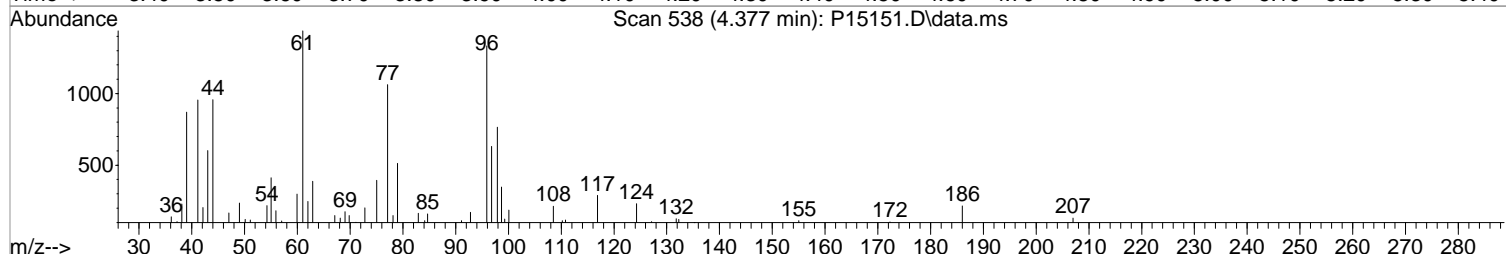
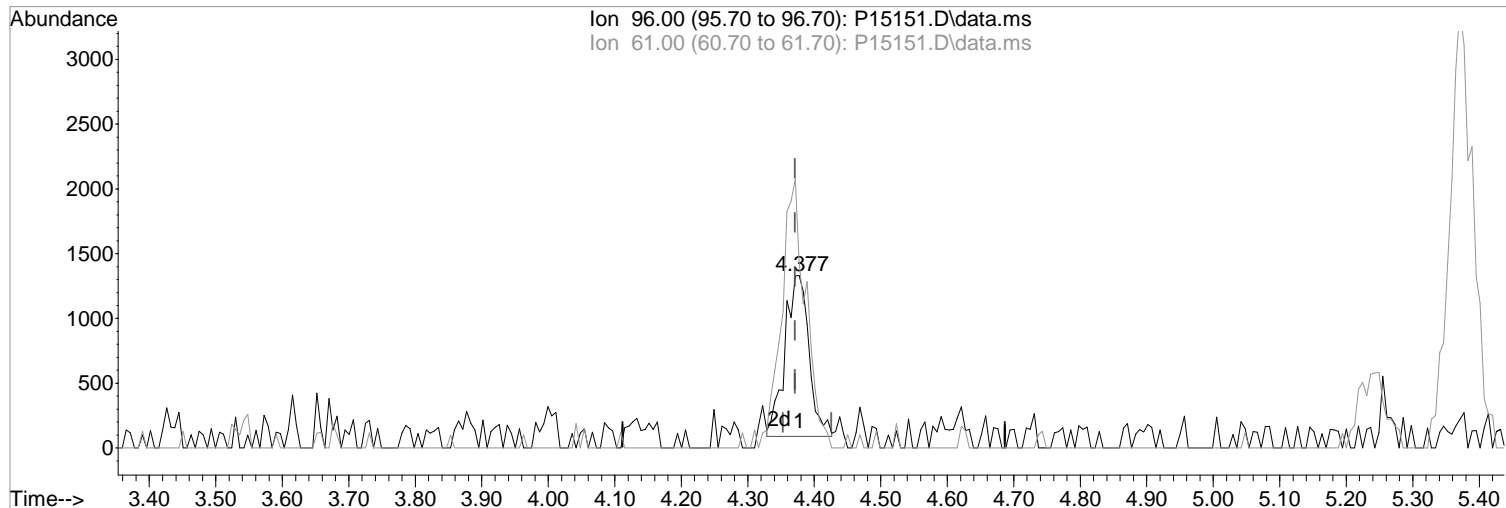
Ion	Exp%	Act%
86.00	100	100
43.00	952.00	565.35#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.86 ppb m

response 3133

Ion Exp% Act%

96.00 100 100

61.00 142.80 107.95#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

After

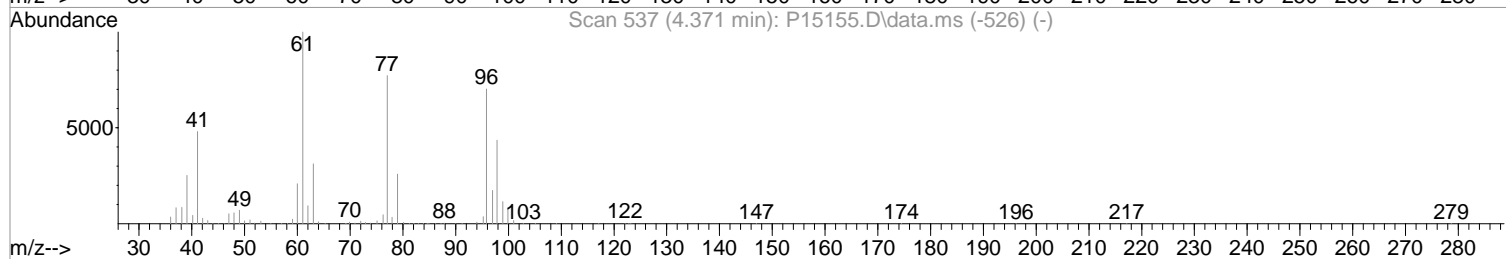
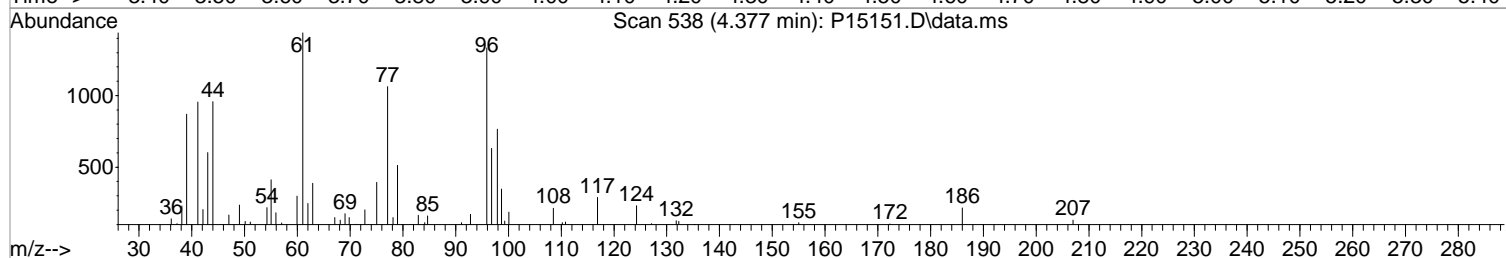
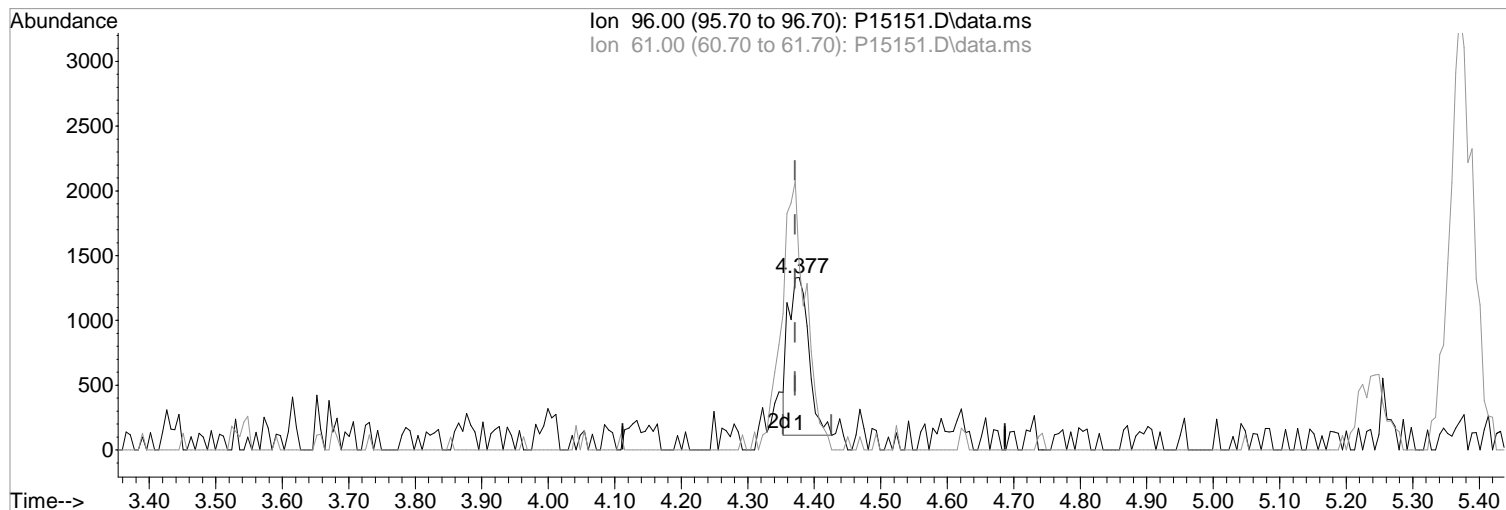
Split Peak

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.377min (+0.006) 0.72 ppb

response 2622

Ion Exp% Act%

96.00 100 100

61.00 142.80 107.95#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

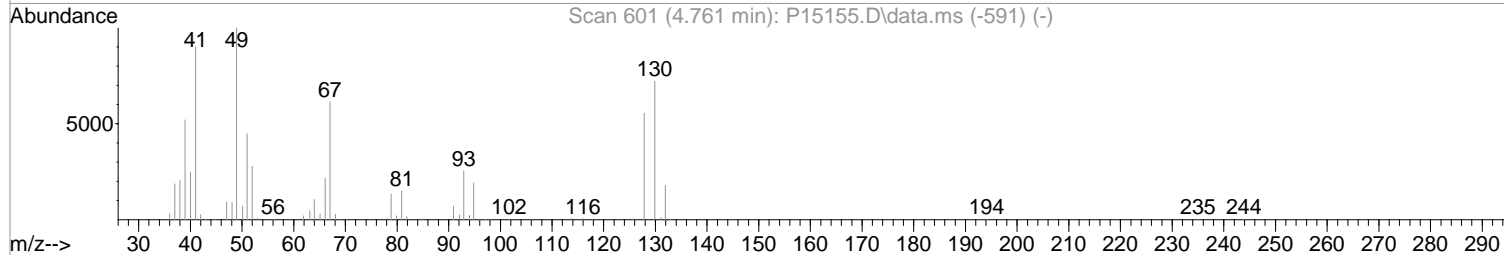
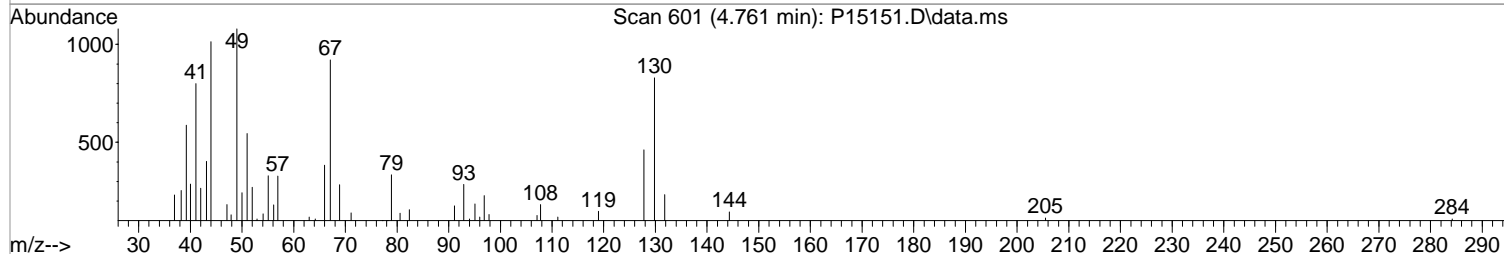
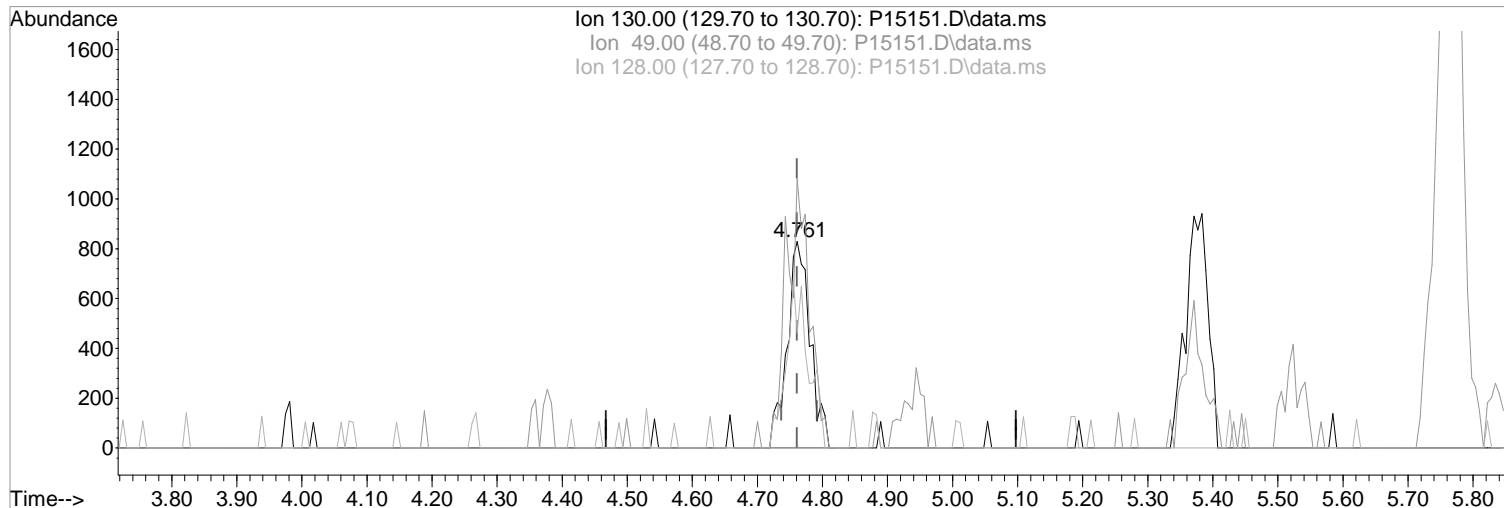
Before

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane

4.761min (+0.000) 1.02 ppb m

response 2044

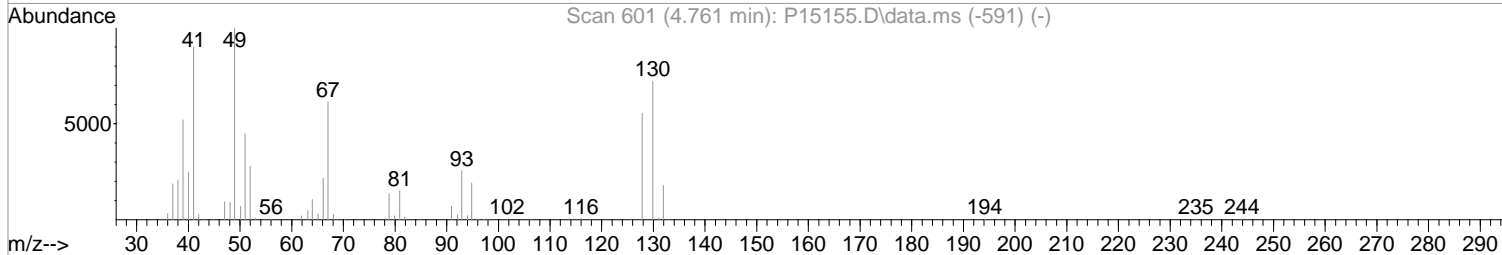
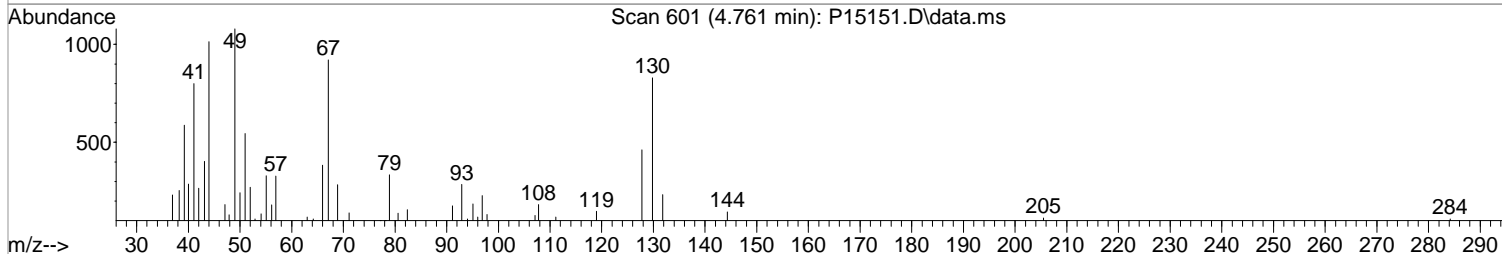
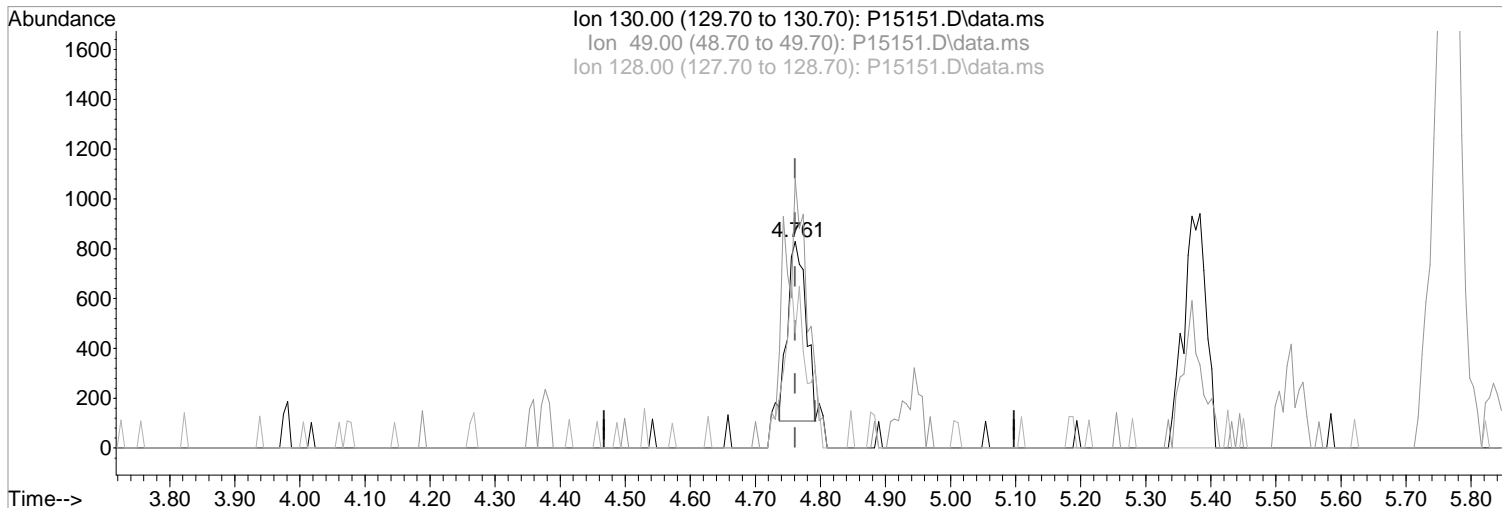
Ion	Exp%	Act%
130.00	100	100
49.00	139.00	130.28
128.00	77.10	55.73#
0.00	0.00	0.00

Manual Integration:  
After  
Split Peak  
01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane  
4.761min (+0.000) 0.70 ppb  
response 1394

Manual Integration:  
Before

Ion	Exp%	Act%
130.00	100	100
49.00	139.00	130.28
128.00	77.10	55.73#
0.00	0.00	0.00

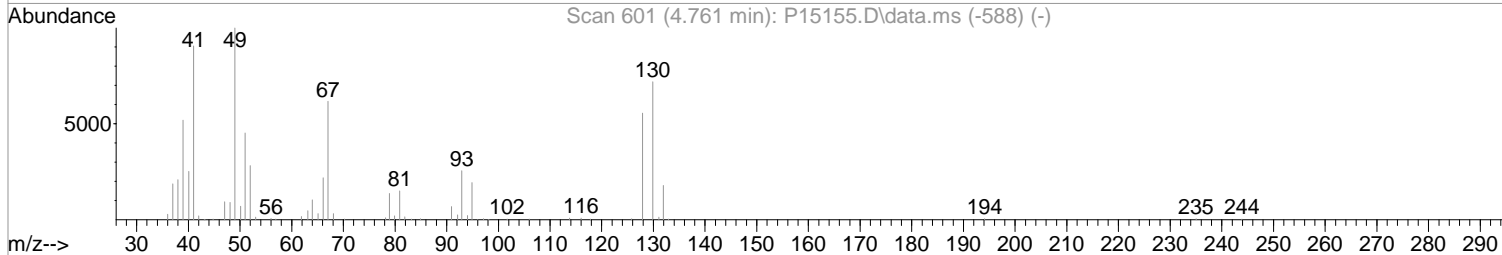
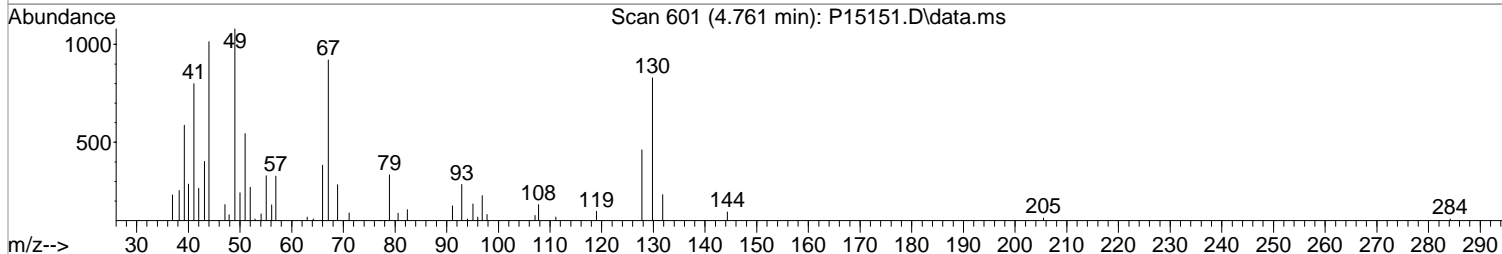
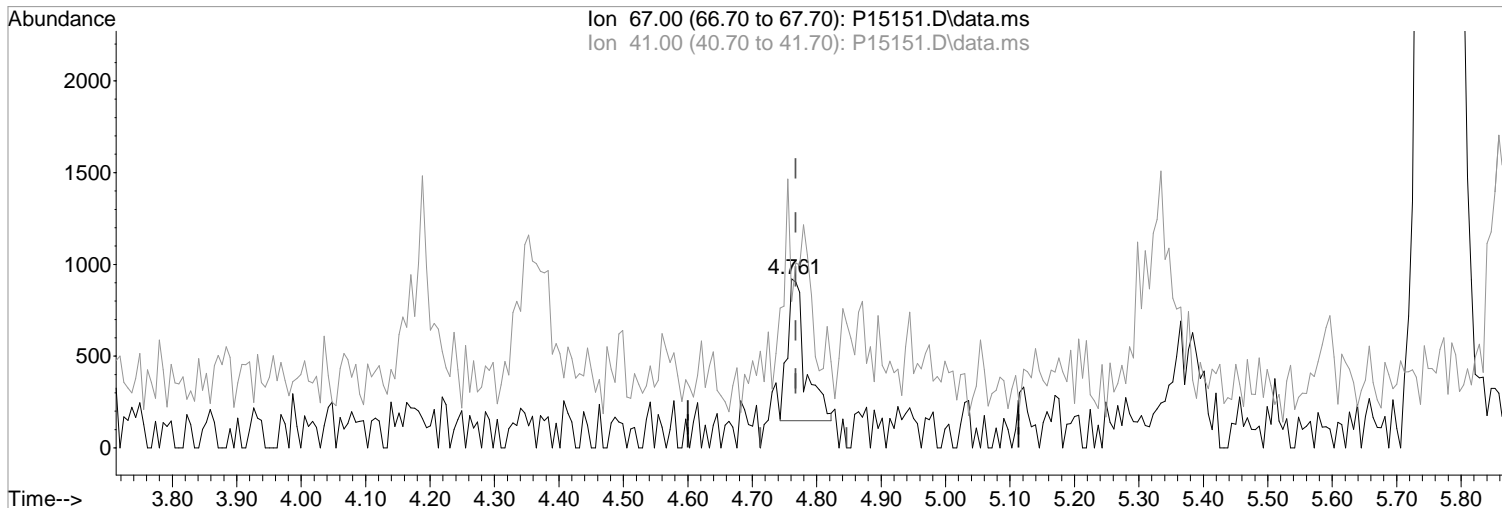
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



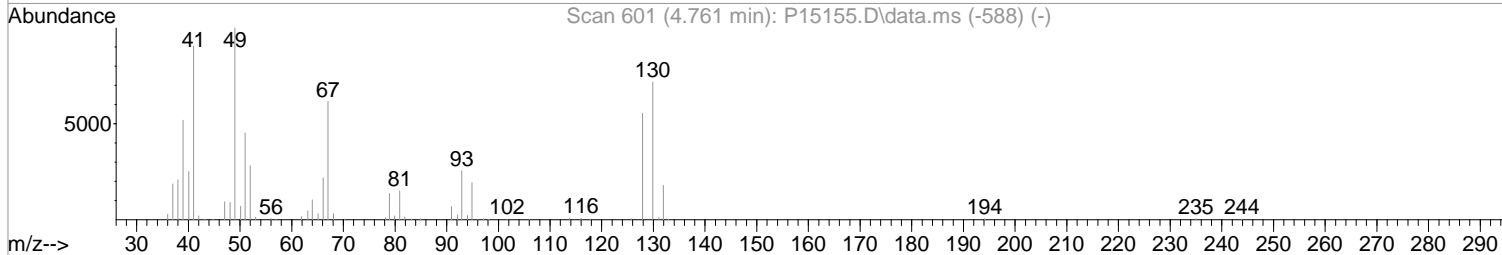
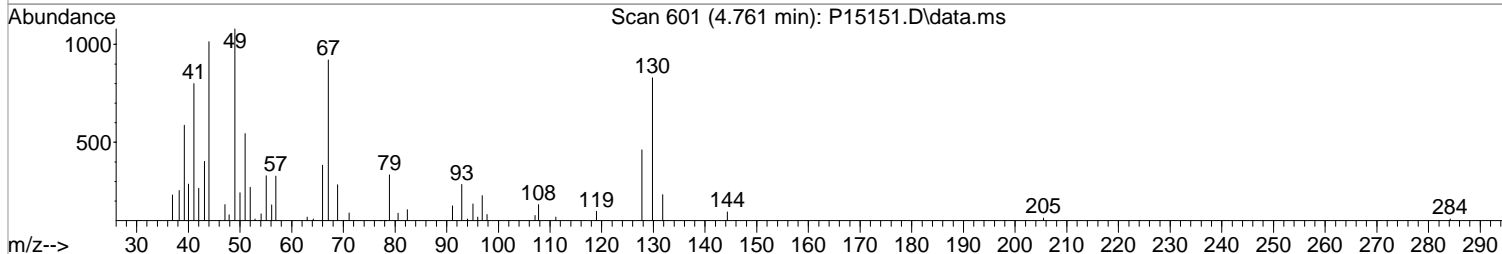
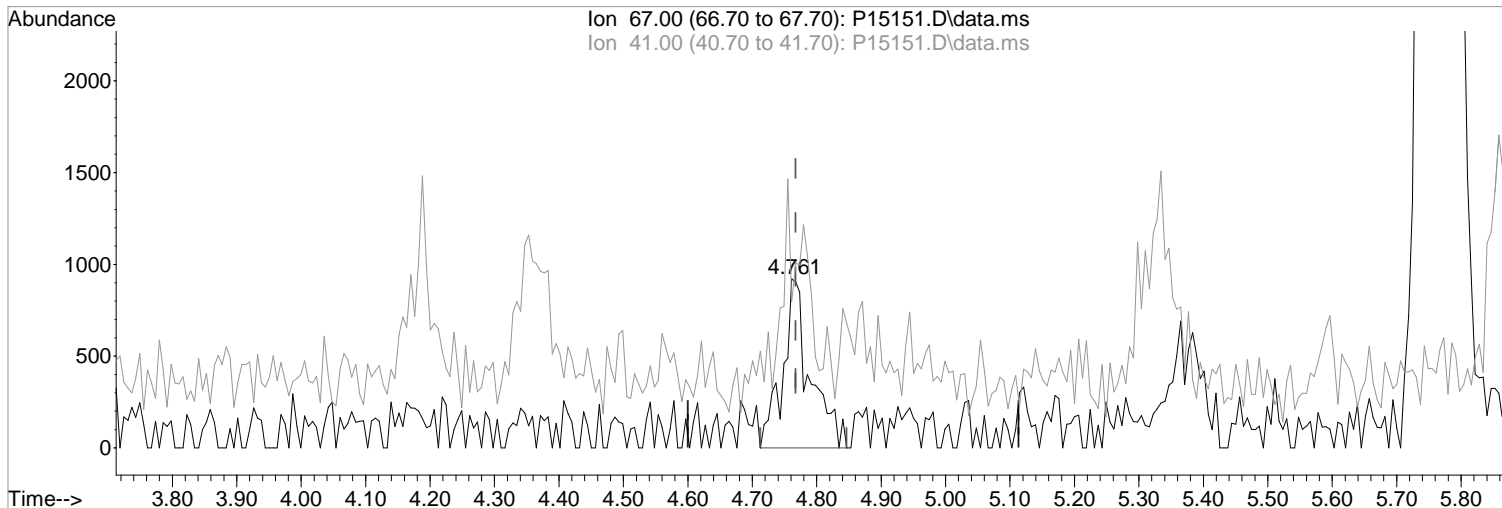
(38) Methacrylonitrile  
4.761min (-0.006) 0.80 ppb m  
response 1485  
Ion Exp% Act%  
67.00 100 100  
41.00 147.70 86.75#  
0.00 0.00 0.00  
0.00 0.00 0.00

Manual Integration:  
After  
Poor integration.  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



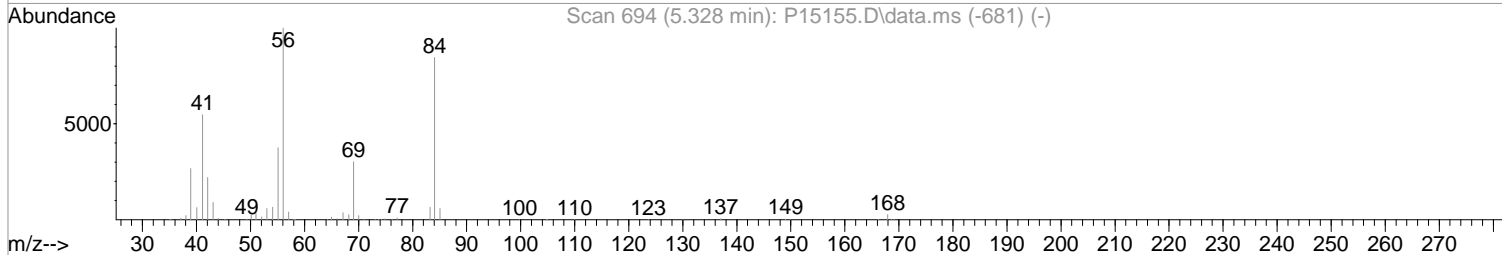
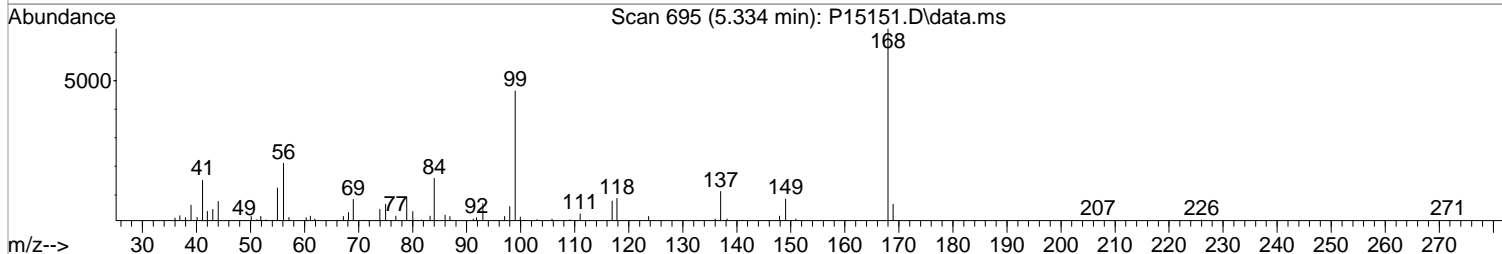
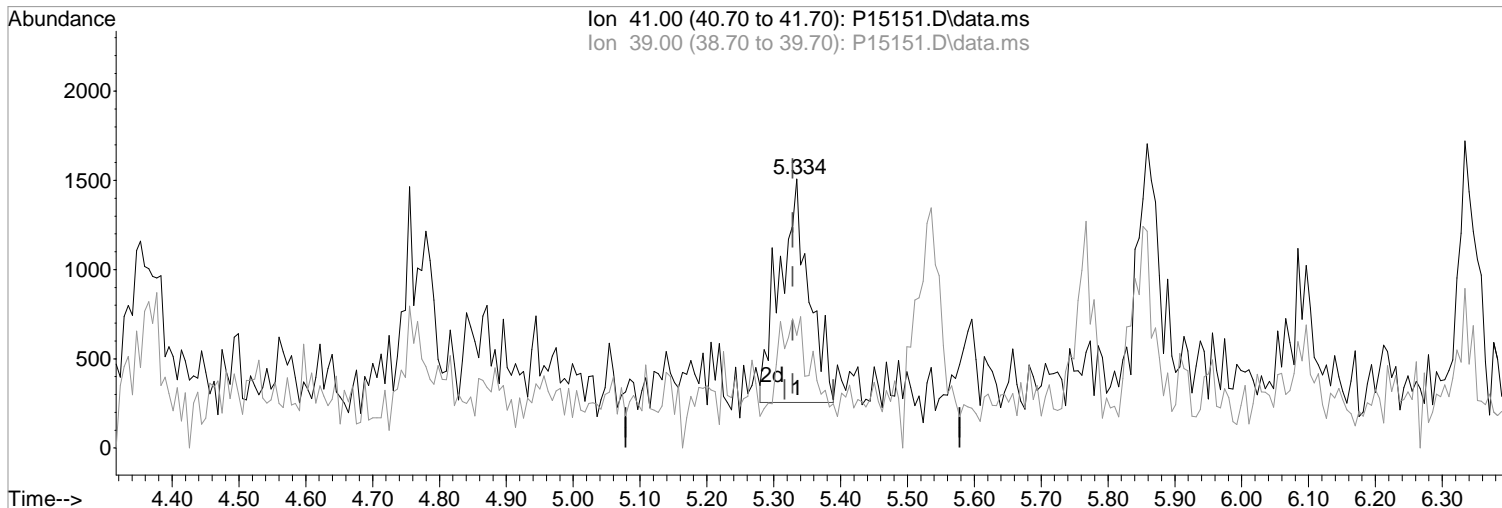
(38) Methacrylonitrile  
4.761min (-0.006) 1.48 ppb  
response 2730  
Ion Exp% Act%  
67.00 100 100  
41.00 147.70 86.75#  
0.00 0.00 0.00  
0.00 0.00 0.00

Manual Integration:  
Before  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(44) Cyclohexane (P)  
5.334min (+0.006) 1.22 ppb m  
response 3829

Manual Integration:

After

Split Peak

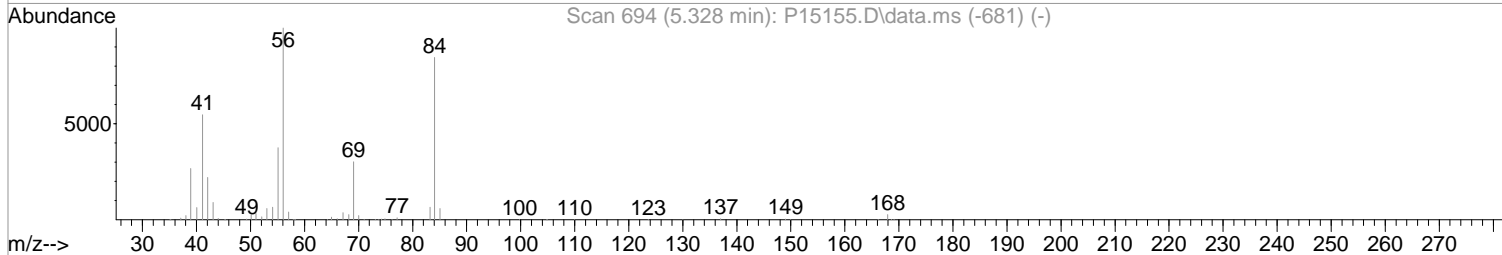
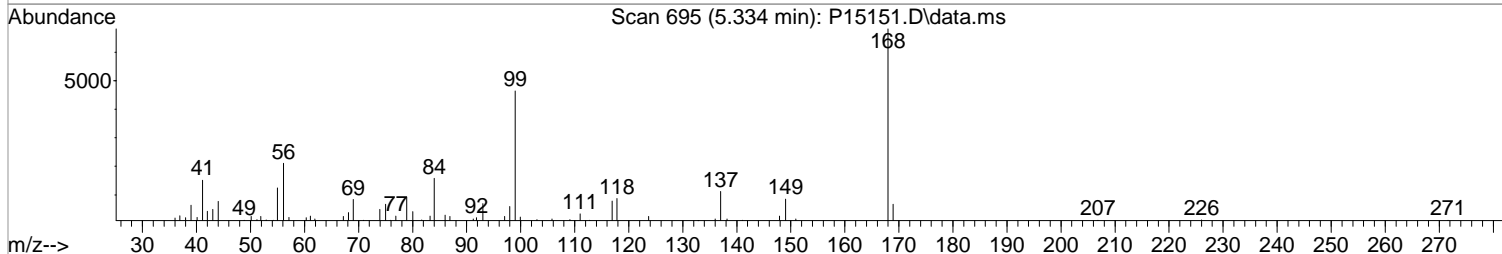
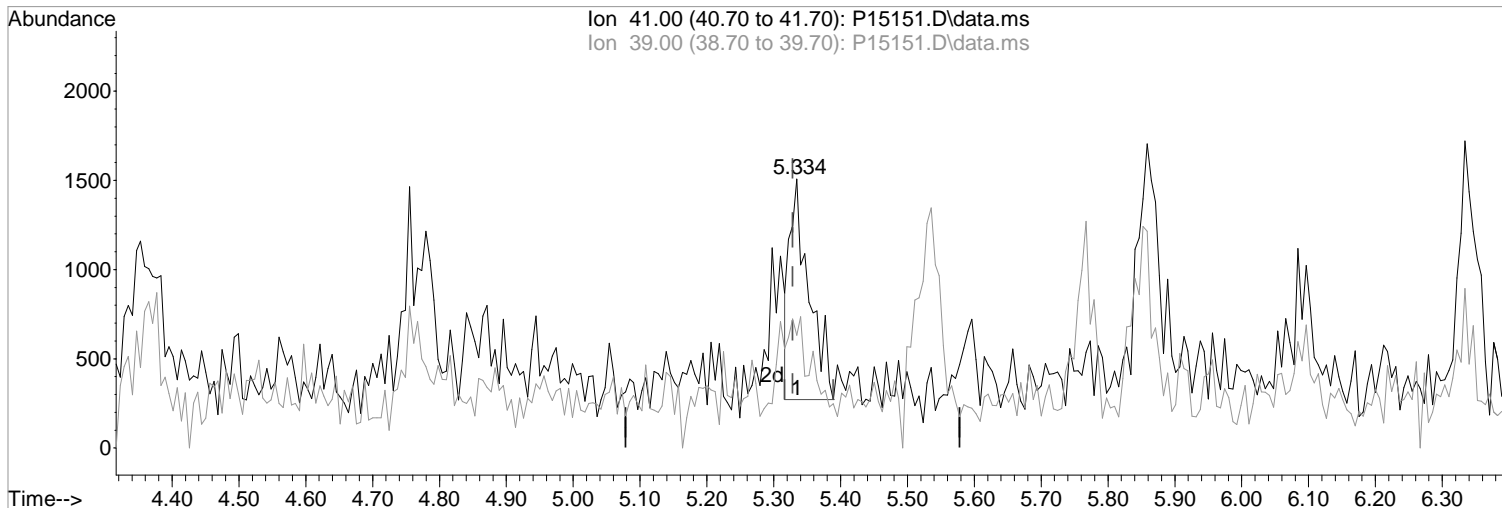
01/02/18

Ion	Exp%	Act%
41.00	100	100
39.00	49.10	41.91
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(44) Cyclohexane (P)  
5.334min (+0.006) 0.81 ppb  
response 2539

Manual Integration:  
Before

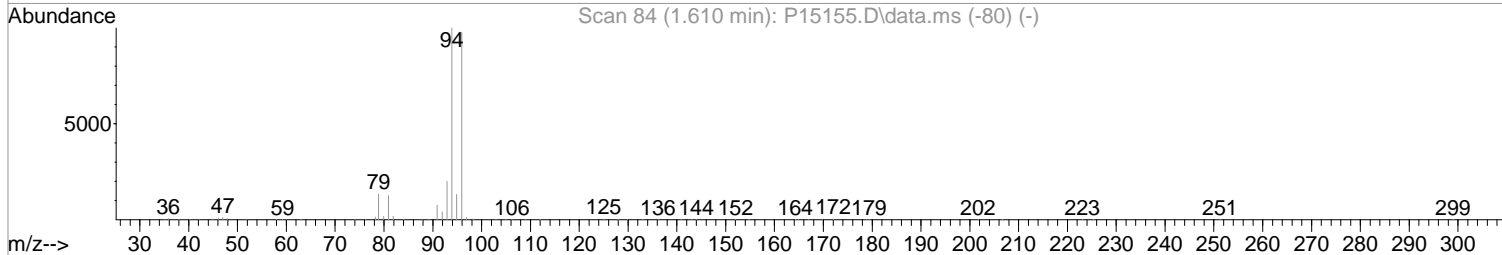
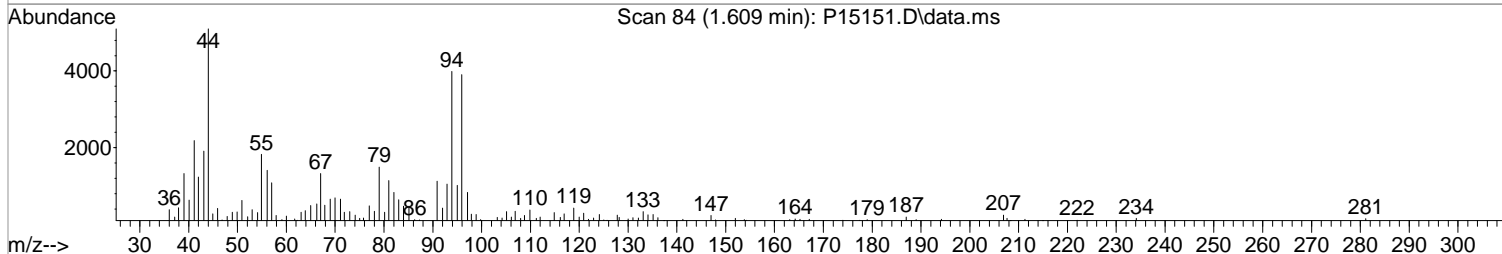
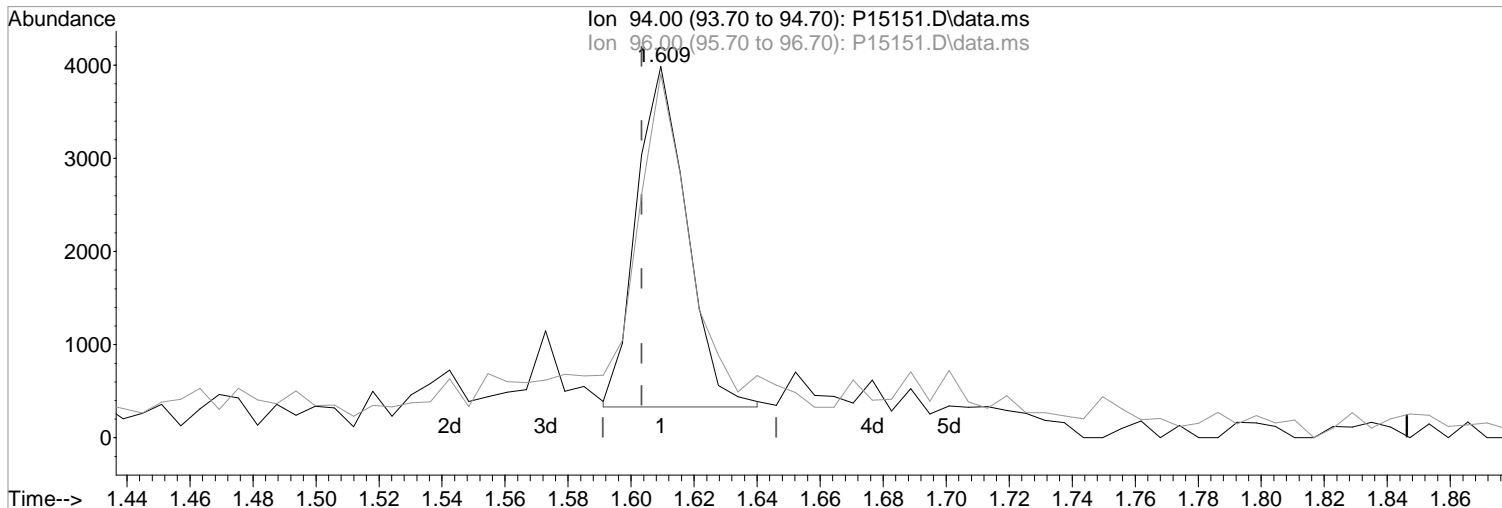
Ion	Exp%	Act%
41.00	100	100
39.00	49.10	41.91
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(5) Bromomethane (P)  
1.609min (+0.006) 1.25 ppb m  
response 4038

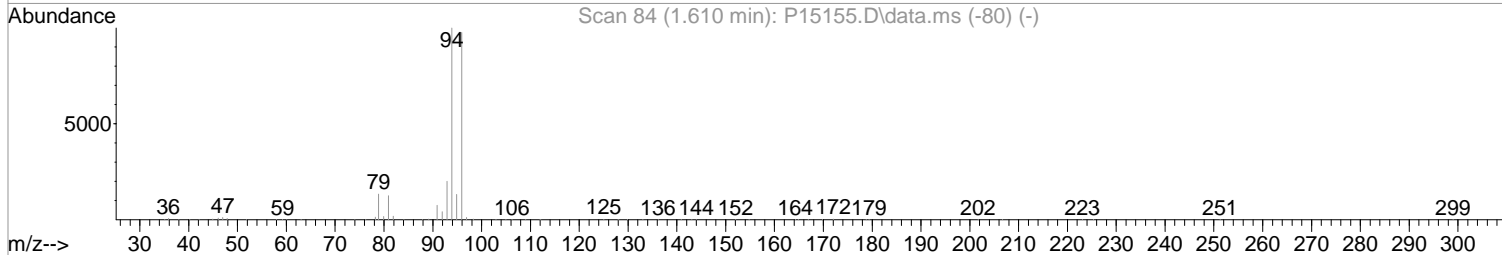
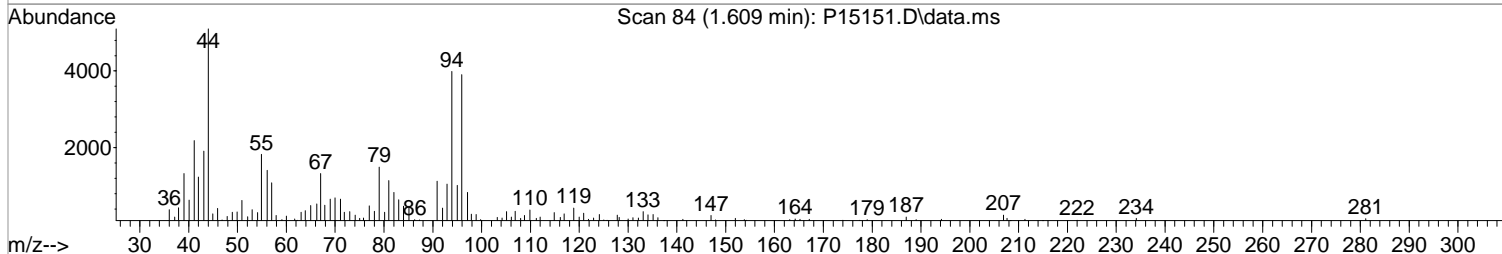
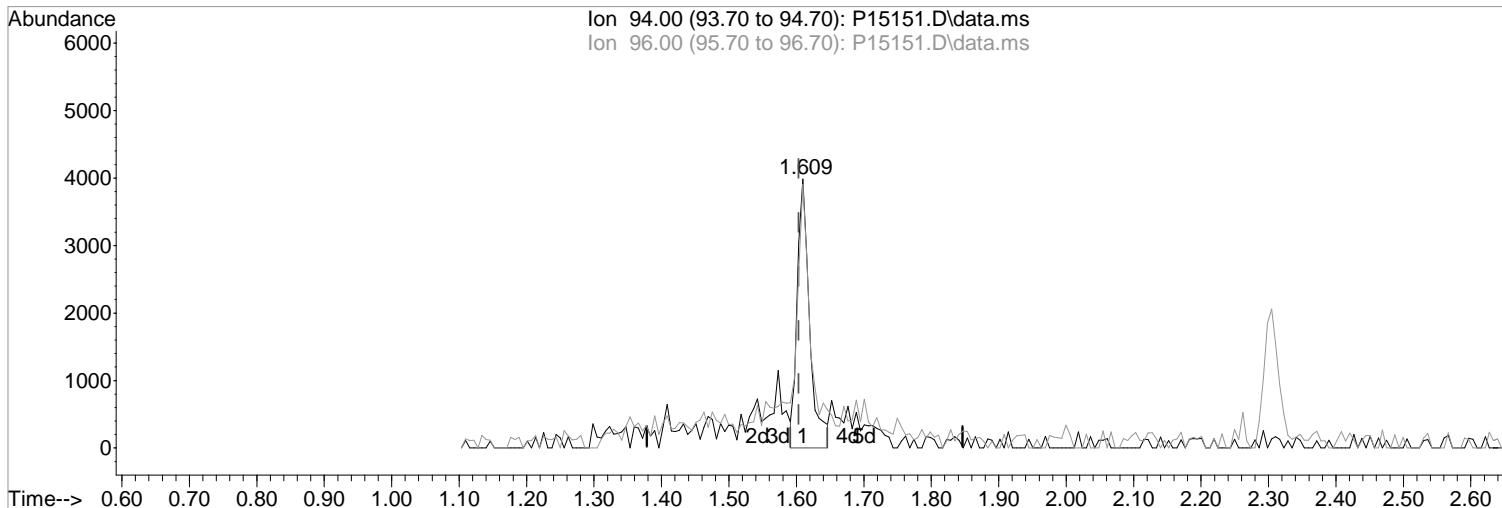
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
94.00	100	100
96.00	97.70	97.97
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



(5) Bromomethane (P)  
 1.609min (+0.006) 1.59 ppb  
 response 5131

Manual Integration:  
 Before

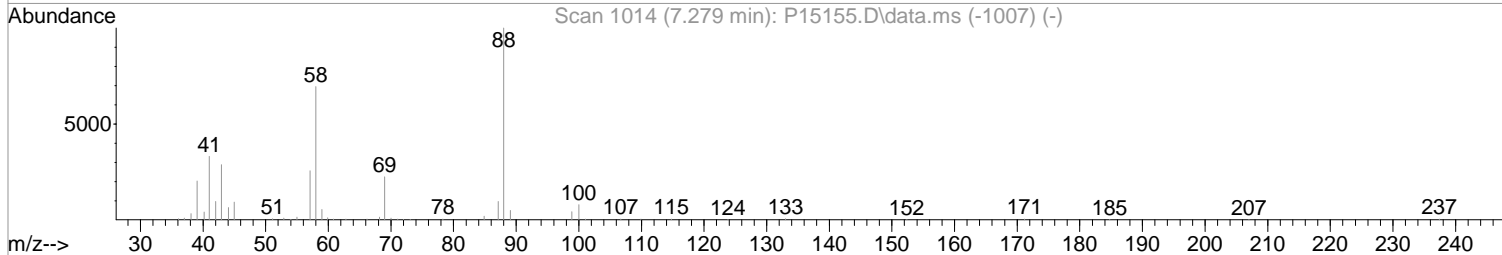
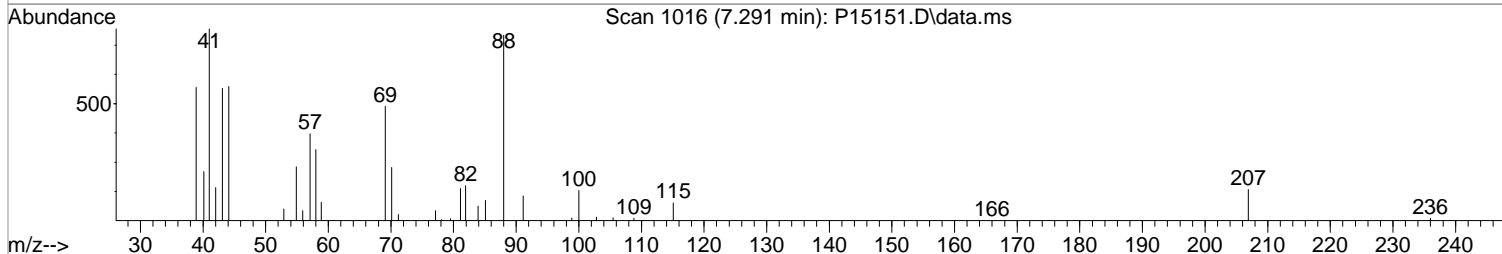
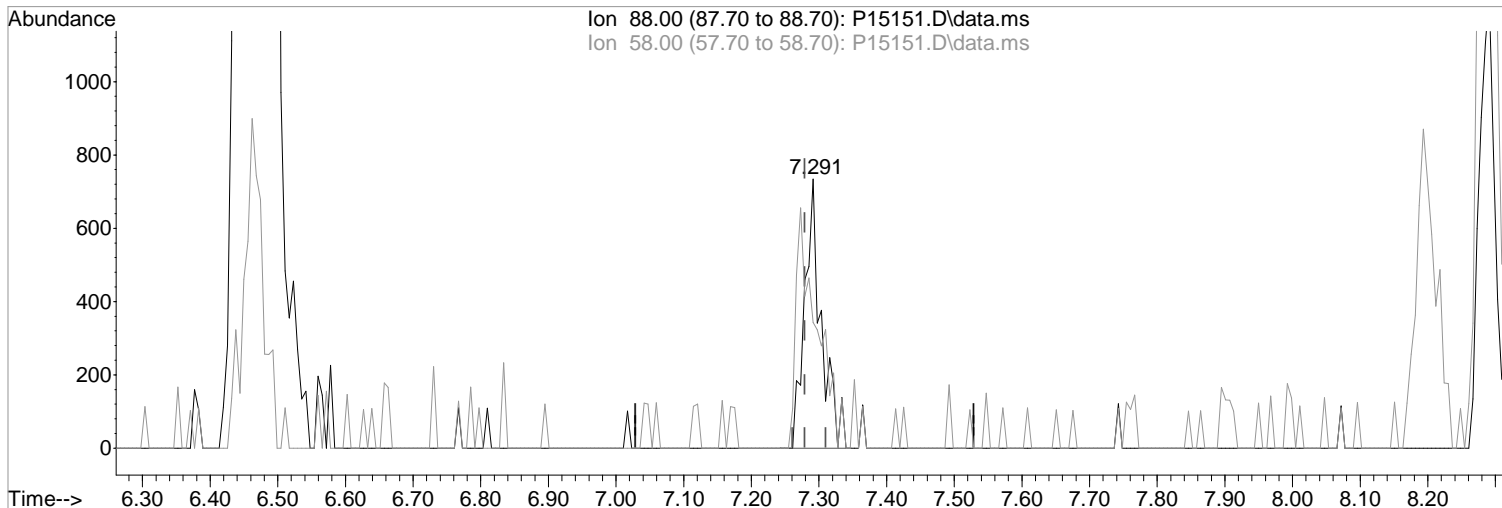
Ion	Exp%	Act%
94.00	100	100
96.00	97.70	97.97
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(58) 1,4-Dioxane  
7.291min (+0.012) 19.01 ppb m  
response 1262

Manual Integration:

After  
Split Peak

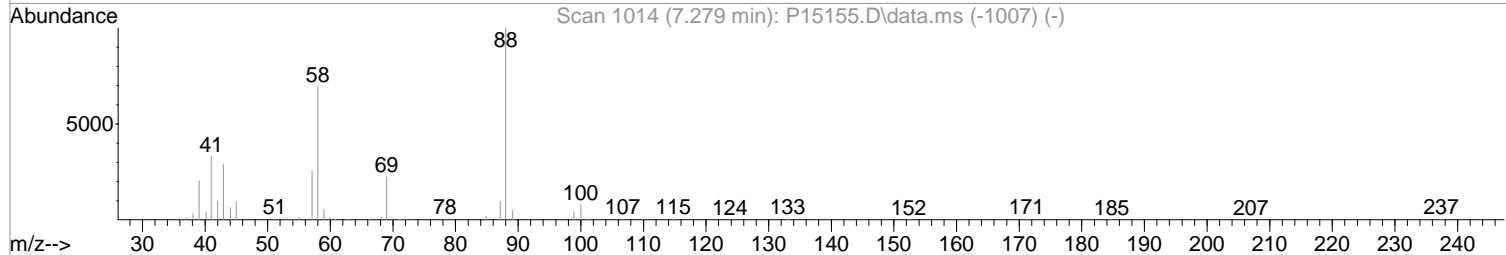
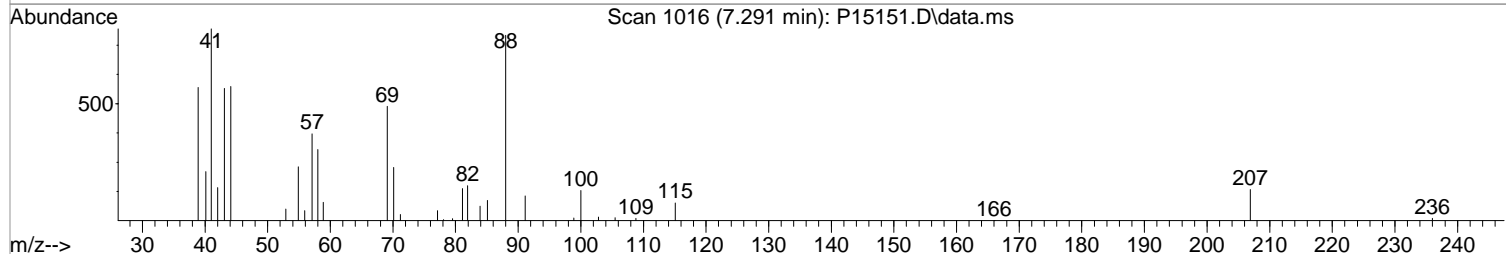
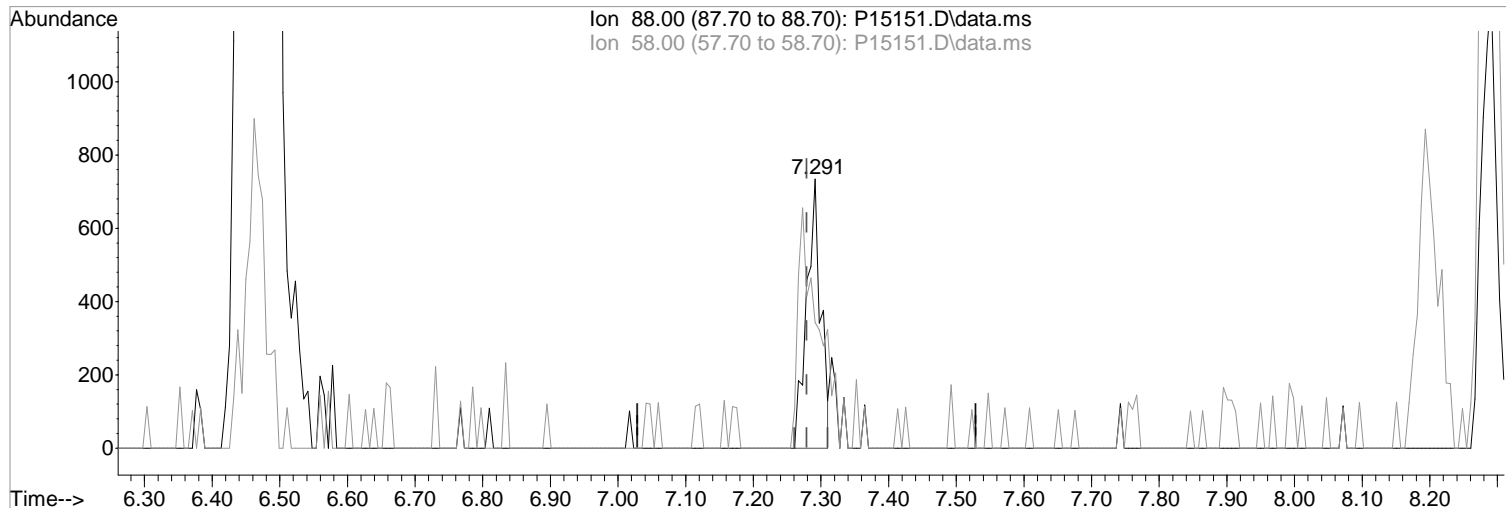
Ion	Exp%	Act%
88.00	100	100
58.00	70.00	46.73#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(58) 1,4-Dioxane  
7.291min (+0.012) 15.92 ppb  
response 1057

Manual Integration:  
Before

Ion	Exp%	Act%
88.00	100	100
58.00	70.00	46.73#
0.00	0.00	0.00
0.00	0.00	0.00

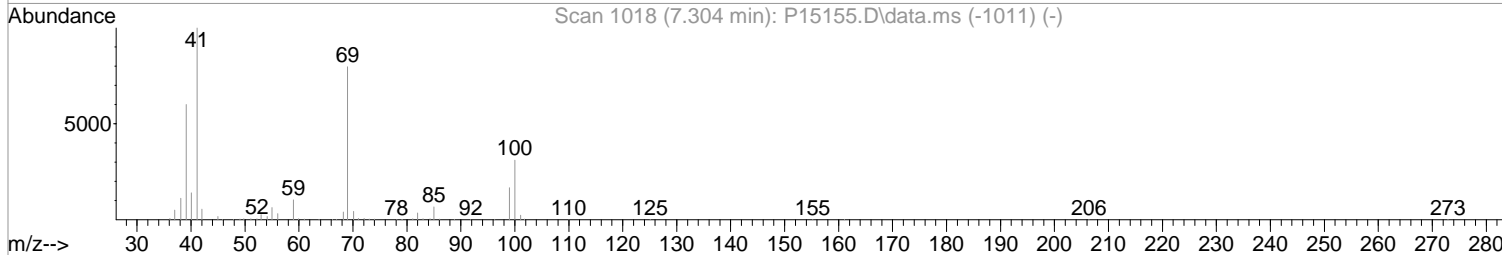
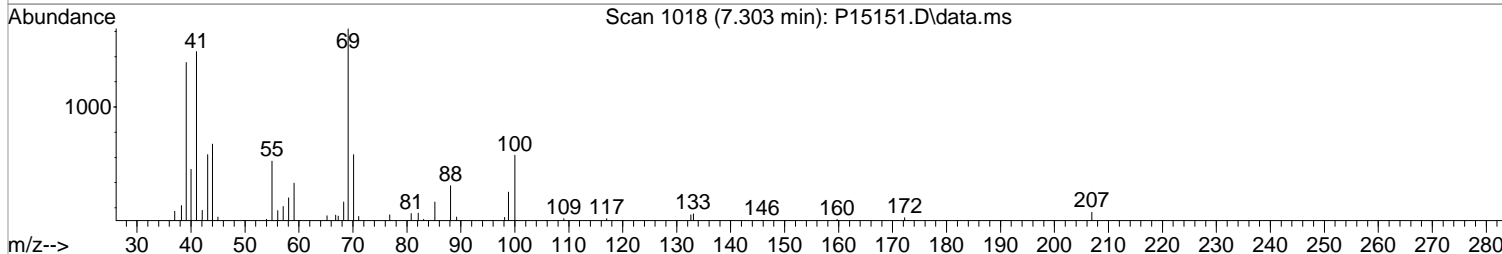
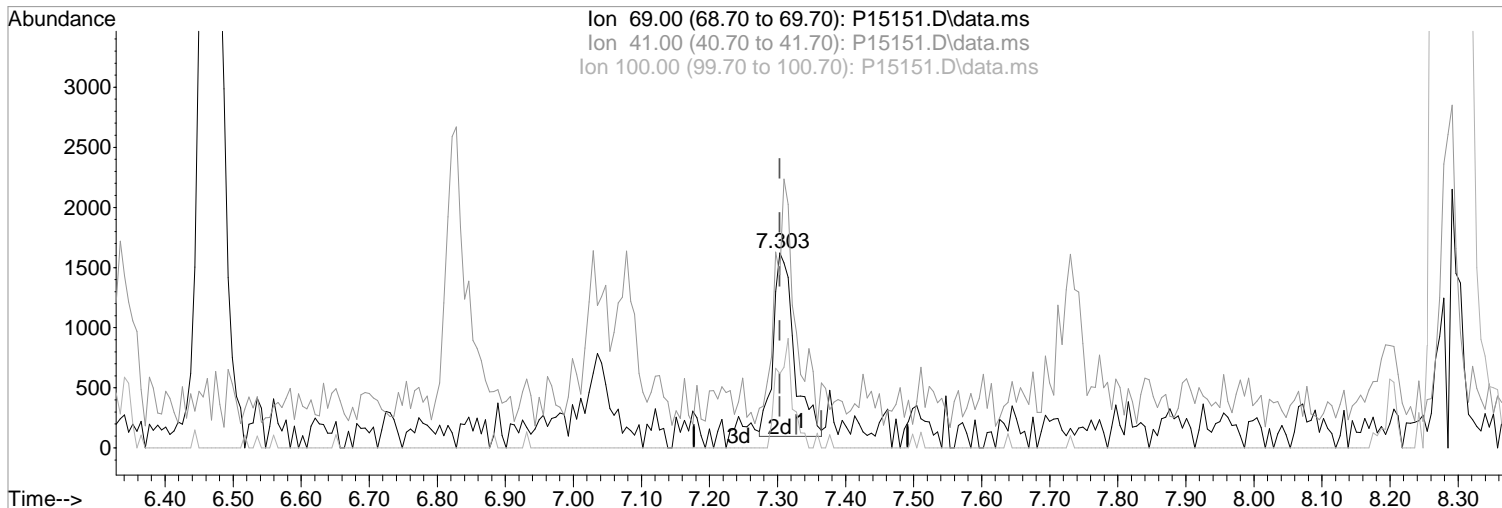
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(59) Methyl Methacrylate  
7.303min (+0.000) 1.05 ppb m  
response 3248  
Ion Exp% Act%  
69.00 100 100  
41.00 126.30 88.77#  
100.00 38.80 38.06  
0.00 0.00 0.00

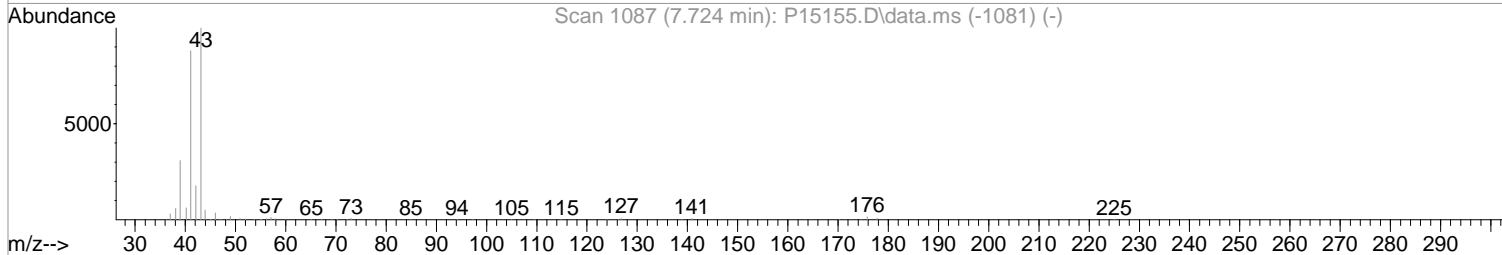
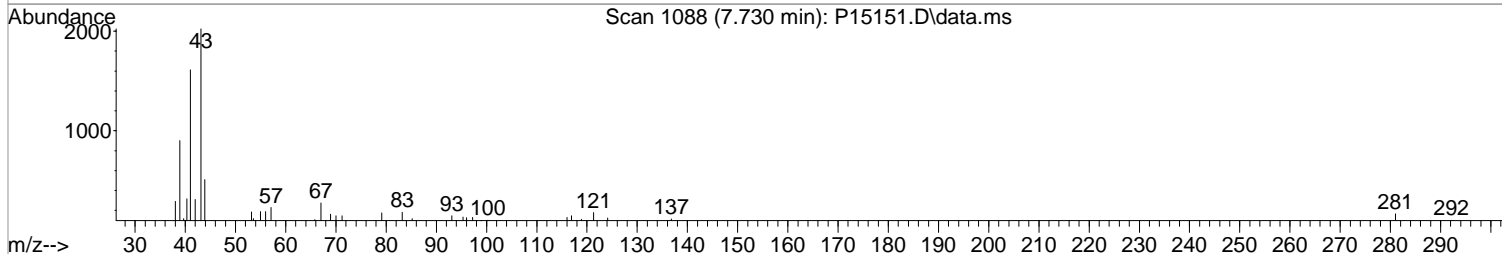
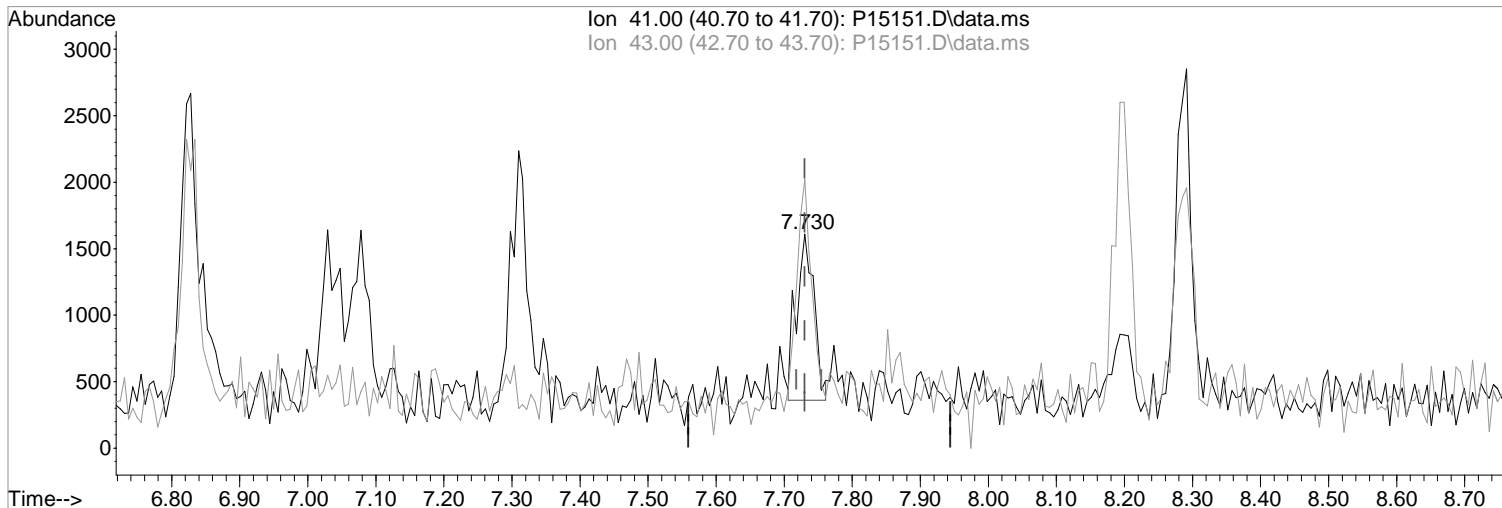
Manual Integration:  
After  
Split Peak  
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(61) 2-Nitropropane

Manual Integration:

7.730min (+0.000) 1.74 ppb m

After

response 2254

Split Peak

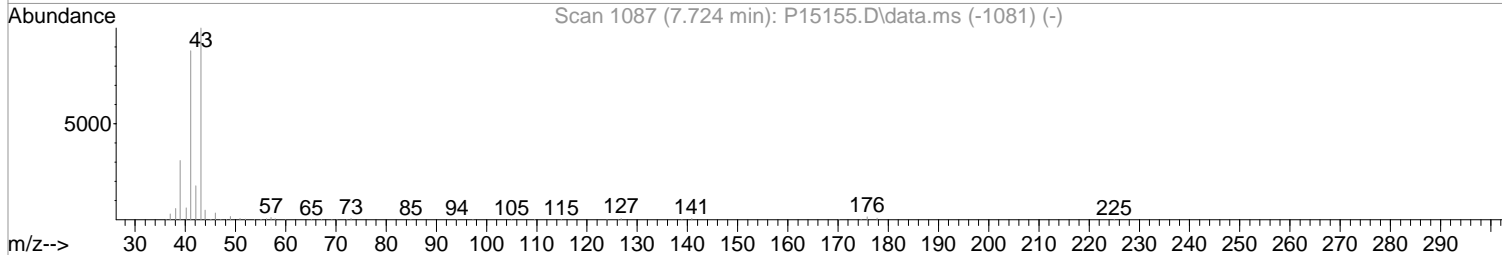
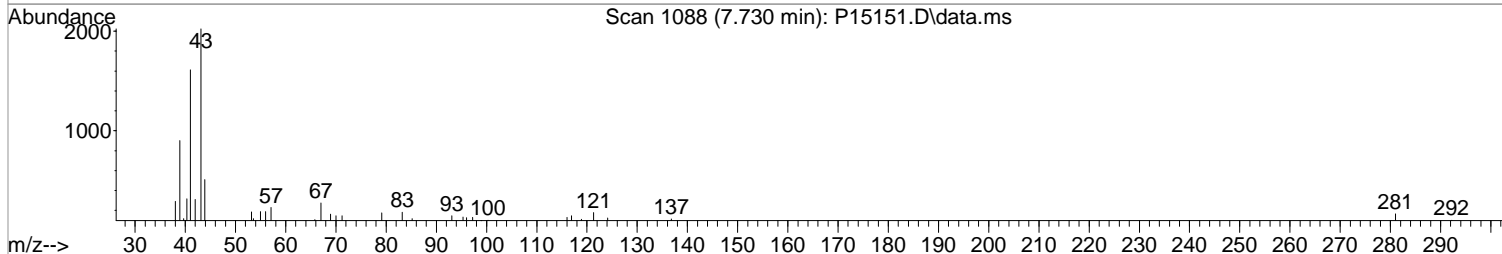
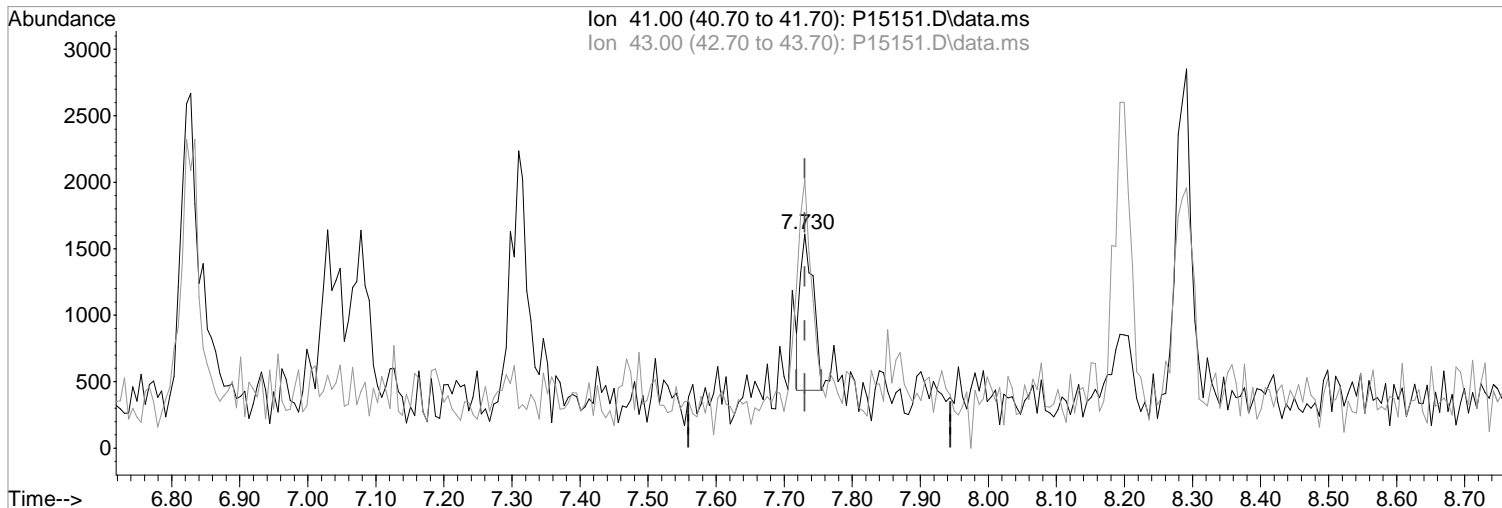
Ion	Exp%	Act%
41.00	100	100
43.00	113.70	125.71
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(61) 2-Nitropropane  
7.730min (+0.000) 1.19 ppb  
response 1546

Manual Integration:  
Before

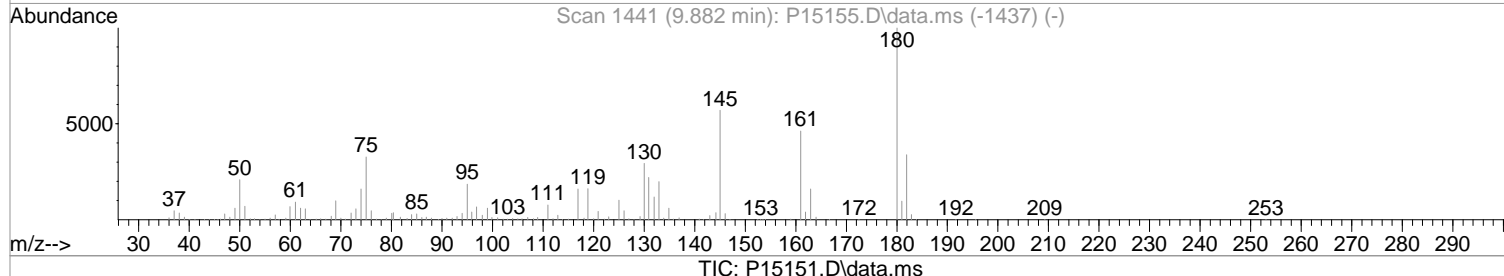
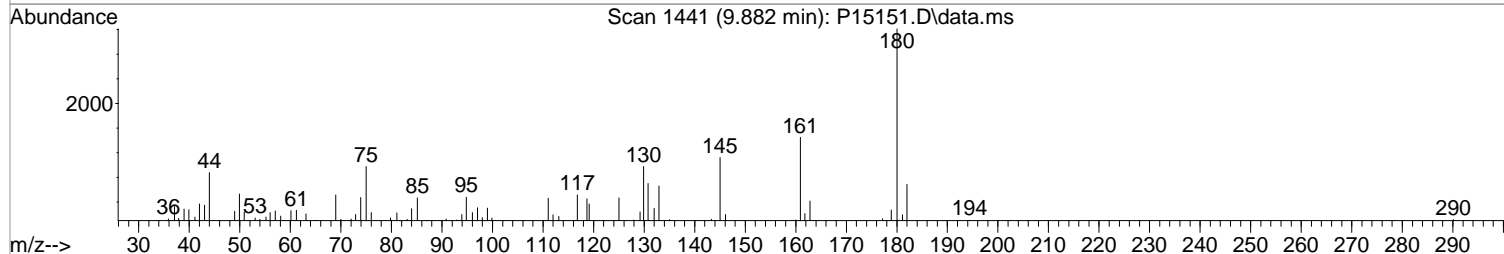
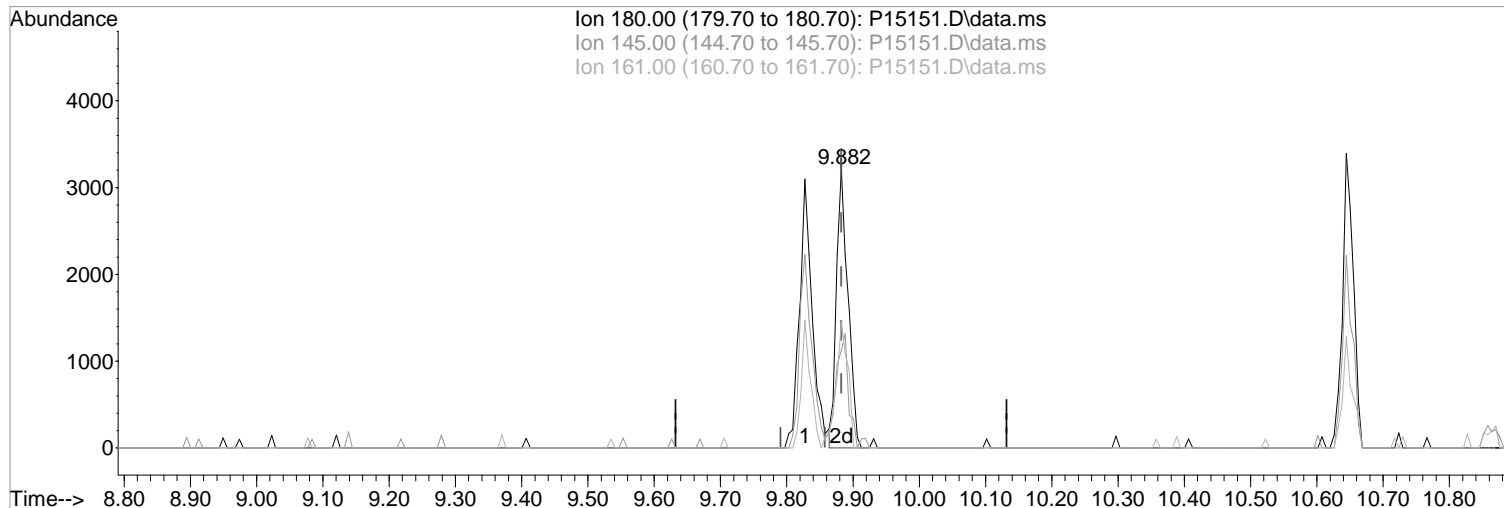
Ion	Exp%	Act%
41.00	100	100
43.00	113.70	125.71
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(80) 4-CBTF

9.882min (+0.000) 0.96 ppb m  
response 3872

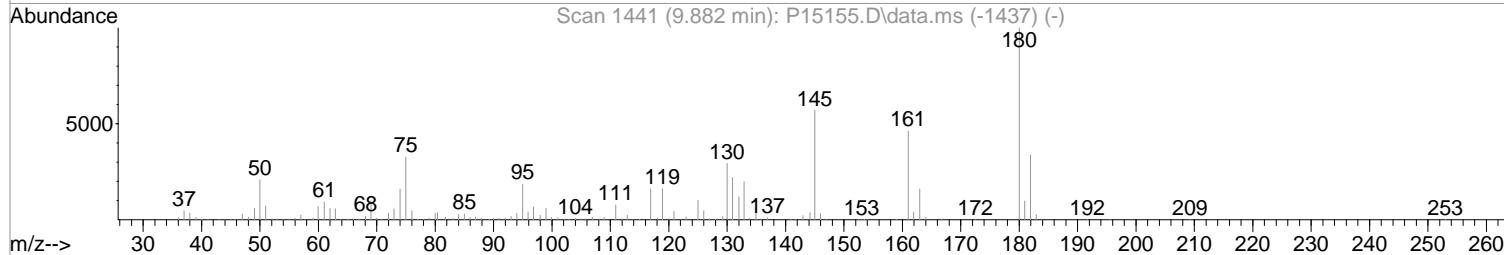
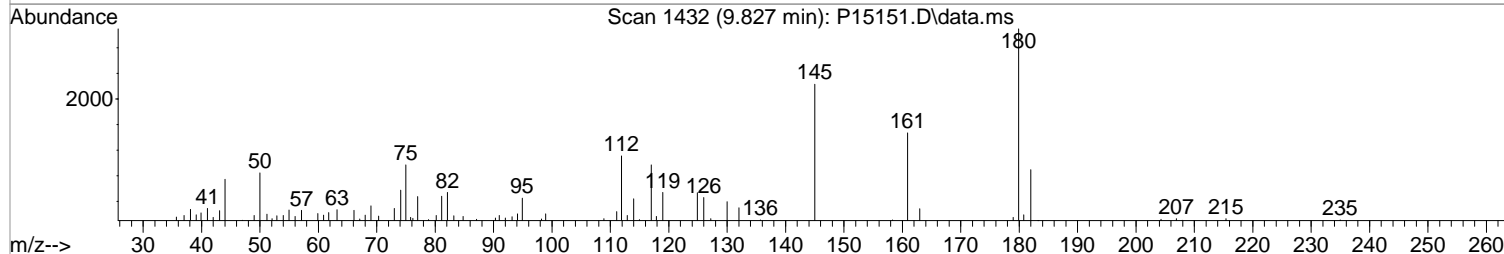
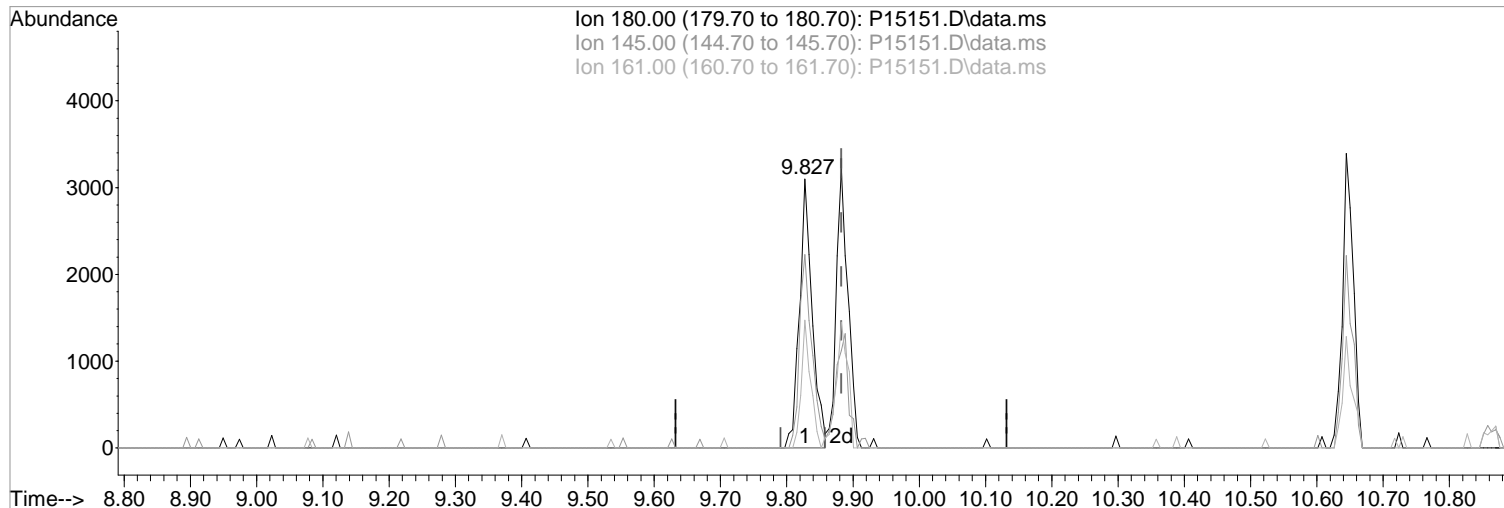
Ion	Exp%	Act%
180.00	100	100
145.00	57.00	34.96#
161.00	46.00	45.10
0.00	0.00	0.00

Manual Integration:  
After  
Wrong peak selected.  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15151.D  
Acq On : 29 Dec 2017 5:44 pm  
Operator : K.Ruest  
Sample : 1.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:41 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15151.D\data.ms

(80) 4-CBTF  
9.827min (-0.055) 1.03 ppb  
response 4151  
Ion Exp% Act%  
180.00 100 100  
145.00 57.00 71.93  
161.00 46.00 47.47  
0.00 0.00 0.00

Manual Integration:  
Before  
01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.377	168	287174	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	482641	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	421648	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	206696	50.00	ppb	0.00	
System Monitoring Compounds							
45) surr4,Dibrflmethane	5.231	113	140301	48.96	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	97.92%			
48) surr1,1,2-dichloroetha...	5.767	65	197838	50.38	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	100.76%			
65) SURR3,Toluene-d8	8.291	98	626569	48.97	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	97.94%			
70) SURR2,BFB	10.858	95	234667	47.40	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	94.80%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	3092	0.87	ppb		89
3) Chloromethane	1.305	50	4661	1.07	ppb		93
4) Vinyl Chloride	1.384	62	3538	0.83	ppb	#	44
5) Bromomethane	1.609	94	4038m	1.25	ppb		
6) Chloroethane	1.689	64	1872	0.70	ppb	#	34
7) Freon 21	1.835	67	5264	0.95	ppb		97
8) Trichlorofluoromethane	1.884	101	3531	0.86	ppb		80
9) Diethyl Ether	2.115	59	2717	0.96	ppb	#	60
10) Freon 123a	2.115	67	3628	1.06	ppb		95
11) Freon 123	2.170	83	3539	0.88	ppb		90
12) Acrolein	2.219	56	4284	5.05	ppb		80
13) 1,1-Dicethene	2.304	96	3164	1.07	ppb	#	79
14) Freon 113	2.311	101	2912	1.04	ppb		100
15) Acetone	2.353	43	2644	1.52	ppb		91
16) 2-Propanol	2.475	45	6693	19.92	ppb		84
17) Iodomethane	2.439	142	607	0.23	ppb		92
18) Carbon Disulfide	2.500	76	7689	0.89	ppb		99
19) Acetonitrile	2.597	40	1502	5.08	ppb	#	89
20) Allyl Chloride	2.634	76	1334	0.85	ppb	#	54
21) Methyl Acetate	2.658	43	2880	0.92	ppb		95
22) Methylene Chloride	2.743	84	3120	1.00	ppb		90
23) TBA	2.871	59	11158	19.27	ppb		87
24) Acrylonitrile	3.006	53	8428	5.01	ppb		91
25) Methyl-t-Butyl Ether	3.048	73	10288	0.97	ppb		91
26) trans-1,2-Dichloroethene	3.036	96	2908	0.95	ppb		94
28) 1,1-Dicethane	3.536	63	5387	0.97	ppb		93
29) Vinyl Acetate	3.640	86	1198m	1.32	ppb		
30) DIPE	3.658	45	11357	1.08	ppb		95
31) 2-Chloro-1,3-Butadiene	3.664	53	5319	0.99	ppb		97
32) ETBE	4.176	59	9684	0.91	ppb		95
33) 2,2-Dichloropropane	4.353	77	4489	0.91	ppb		88
34) cis-1,2-Dichloroethene	4.377	96	3133m	0.86	ppb		
36) Propionitrile	4.511	54	4096	5.73	ppb		66
37) Bromochloromethane	4.761	130	2044m	1.02	ppb		
38) Methacrylonitrile	4.761	67	1485m	0.80	ppb		
40) Chloroform	4.944	83	5941	0.99	ppb		96
41) 1,1,1-Trichloroethane	5.231	97	4781	1.01	ppb	#	83
42) TAME	6.090	73	10018	0.97	ppb		87
44) Cyclohexane	5.334	41	3829m	1.22	ppb		

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev	(Min)
46) Carbontetrachloride	5.511	117	3082	0.85	ppb	#	81
47) 1,1-Dichloropropene	5.536	75	3874	0.91	ppb		83
49) Benzene	5.840	78	11319	0.90	ppb		86
50) 1,2-Dichloroethane	5.889	62	4380	0.95	ppb		91
51) Iso-Butyl Alcohol	5.846	43	5135	20.08	ppb		85
52) n-Heptane	6.334	43	4453	1.02	ppb		92
53) 1-Butanol	6.828	56	6937	41.00	ppb		85
54) Trichloroethene	6.797	130	3367	1.04	ppb		94
55) Methylcyclohexane	7.035	55	3617	0.86	ppb		88
56) 1,2-Diclpropane	7.072	63	3310	0.98	ppb		80
57) Dibromomethane	7.212	93	2049	1.02	ppb	#	70
58) 1,4-Dioxane	7.291	88	1262m	19.01	ppb		
59) Methyl Methacrylate	7.303	69	3248m	1.05	ppb		
60) Bromodichloromethane	7.444	83	4463	1.05	ppb		97
61) 2-Nitropropane	7.730	41	2254m	1.74	ppb		
63) cis-1,3-Dichloropropene	7.998	75	4467	0.84	ppb		80
64) 4-Methyl-2-pentanone	8.194	43	4242	1.03	ppb		86
66) Toluene	8.364	91	12447	0.91	ppb		94
67) trans-1,3-Dichloropropene	8.632	75	4602	0.92	ppb		93
68) Ethyl Methacrylate	8.773	69	5274	1.05	ppb		82
69) 1,1,2-Trichloroethane	8.815	97	3198	1.03	ppb		92
72) Tetrachloroethene	8.962	164	2460	1.06	ppb	#	79
73) 2-Hexanone	9.114	43	2578	0.83	ppb	#	69
74) 1,3-Dichloropropane	8.992	76	4841	0.89	ppb	#	80
75) Dibromochloromethane	9.218	129	2631	0.93	ppb		96
76) N-Butyl Acetate	9.273	43	4723	0.81	ppb		96
77) 1,2-Dibromoethane	9.315	107	2980	0.99	ppb		83
78) Chlorobenzene	9.809	112	7570	0.92	ppb		87
79) 3-CBTF	9.827	180	4151	0.94	ppb	#	91
80) 4-CBTF	9.882	180	3872m	0.96	ppb		
81) 1,1,1,2-Tetrachloroethane	9.894	131	2802	0.95	ppb		93
82) Ethylbenzene	9.931	106	4390	0.96	ppb	#	87
83) (m+p)Xylene	10.041	106	9803	1.78	ppb		92
84) o-Xylene	10.400	106	5138	0.93	ppb		98
85) Styrene	10.413	104	8086	0.87	ppb		88
87) Bromoform	10.565	173	1755	0.97	ppb		84
88) 2-CBTF	10.644	180	3906	0.95	ppb		90
89) Isopropylbenzene	10.736	105	13170	0.97	ppb		93
90) Cyclohexanone	10.797	55	20423	19.77	ppb		95
91) trans-1,4-Dichloro-2-B...	11.053	53	978	0.91	ppb	#	82
92) 1,1,2,2-Tetrachloroethane	10.992	83	4102	1.00	ppb		92
93) Bromobenzene	10.980	156	3547	1.07	ppb	#	71
94) 1,2,3-Trichloropropane	11.022	110	1416	1.06	ppb		93
95) n-Propylbenzene	11.095	91	15294	0.97	ppb		98
96) 2-Chlorotoluene	11.156	91	9992	1.02	ppb		95
97) 3-Chlorotoluene	11.211	91	9846	0.95	ppb		97
98) 4-Chlorotoluene	11.248	91	10775	0.95	ppb		97
99) 1,3,5-Trimethylbenzene	11.248	105	10889	0.96	ppb		89
100) tert-Butylbenzene	11.516	119	8854	0.90	ppb		90
101) 1,2,4-Trimethylbenzene	11.559	105	9946	0.87	ppb		92
102) 3,4-DCBTF	11.620	214	2773	0.85	ppb	#	93
103) sec-Butylbenzene	11.699	105	13514	0.94	ppb		98
104) p-Isopropyltoluene	11.821	119	10672	0.88	ppb		93
105) 1,3-Dclbenz	11.784	146	5907	0.93	ppb		86
106) 1,4-Dclbenz	11.857	146	6523	0.98	ppb		89
107) 2,4-DCBTF	11.912	214	3106	1.02	ppb	#	90



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15151.D  
 Acq On : 29 Dec 2017 5:44 pm  
 Operator : K.Ruest  
 Sample : 1.0ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 02 10:49:20 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 2,5-DCBTF	11.949	214	2824	0.87	ppb #	81
109) n-Butylbenzene	12.156	91	10165	0.90	ppb	96
110) 1,2-Dclbenz	12.156	146	5863	0.93	ppb	84
111) 1,2-Dibromo-3-chloropr...	12.778	157	1271	1.23	ppb	81
112) Trielution Dichlorotol...	12.900	125	16807	2.71	ppb	92
113) 1,3,5 Trichlorobenzene	12.955	180	4049	0.82	ppb #	80
114) Coelution Dichlorotoluene	13.229	125	11563	1.76	ppb	97
115) 1,2,4-Tcbenzene	13.443	180	3678	0.80	ppb	87
116) Hexachlorobt	13.577	225	1668	0.78	ppb	91
117) Naphthalen	13.625	128	10607	0.84	ppb	96
118) 1,2,3-Tclbenzene	13.820	180	3810	0.86	ppb	90
119) 2,4,5-Trichlorotolene	14.394	159	1480	0.55	ppb #	76
120) 2,3,6-Trichlorotoluene	14.491	159	1149	0.47	ppb #	86

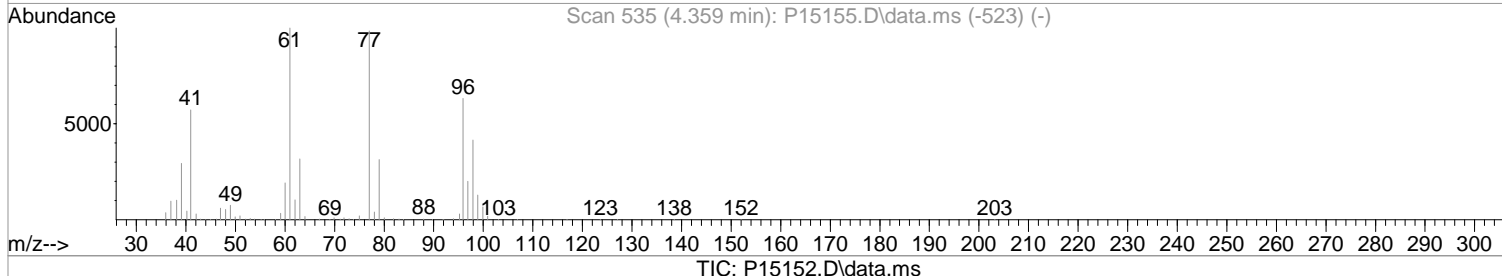
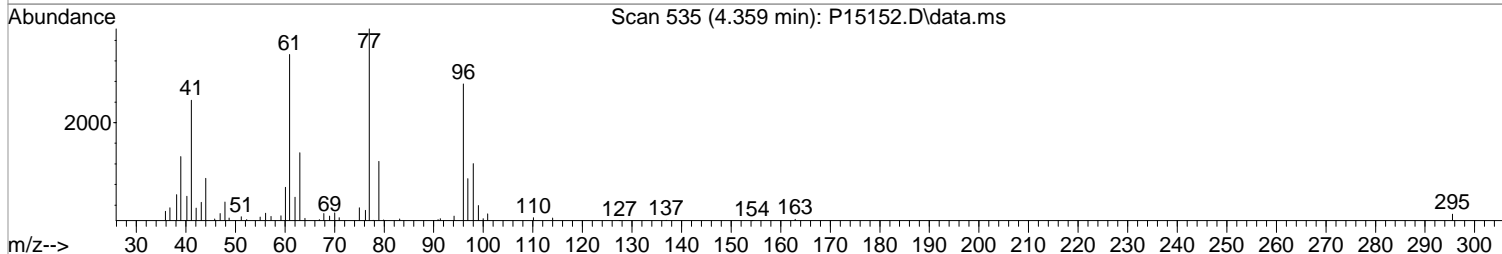
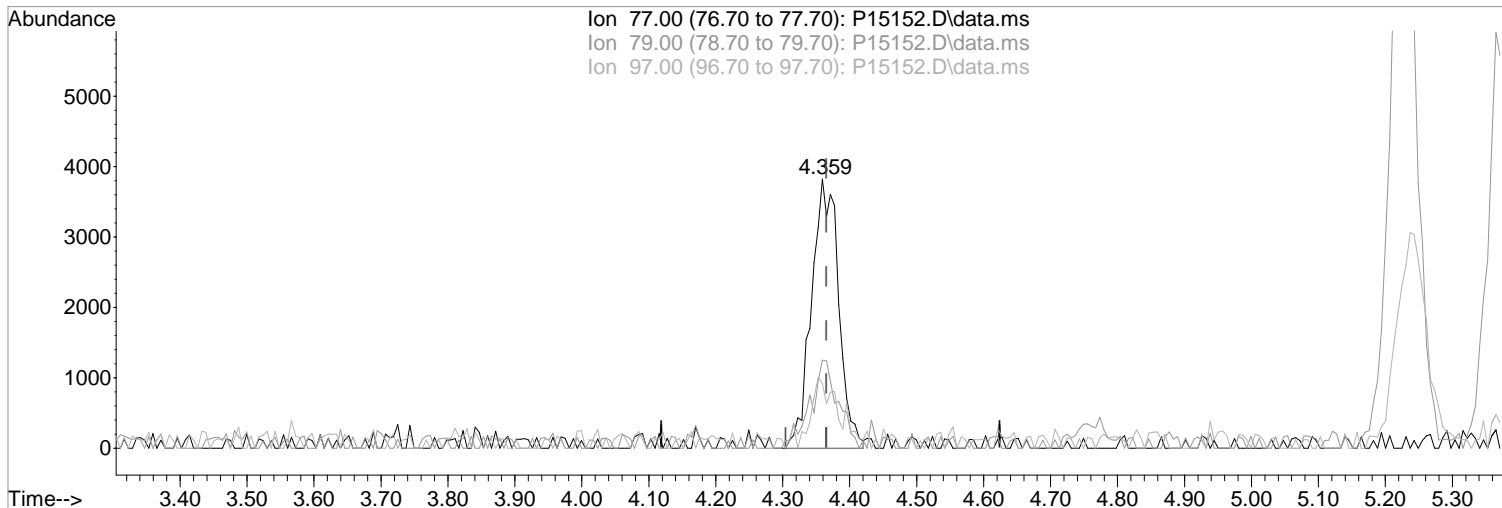
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(33) 2,2-Dichloropropane  
4.359min (-0.006) 2.15 ppb m  
response 10714

Manual Integration:

After

Split Peak

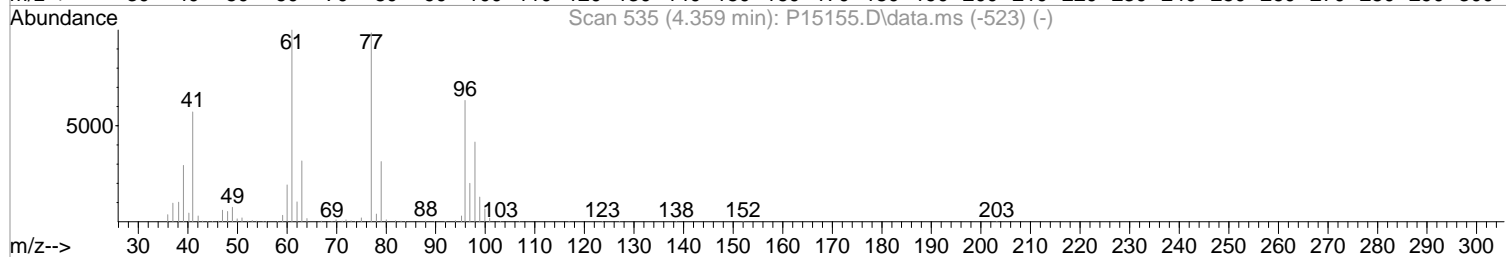
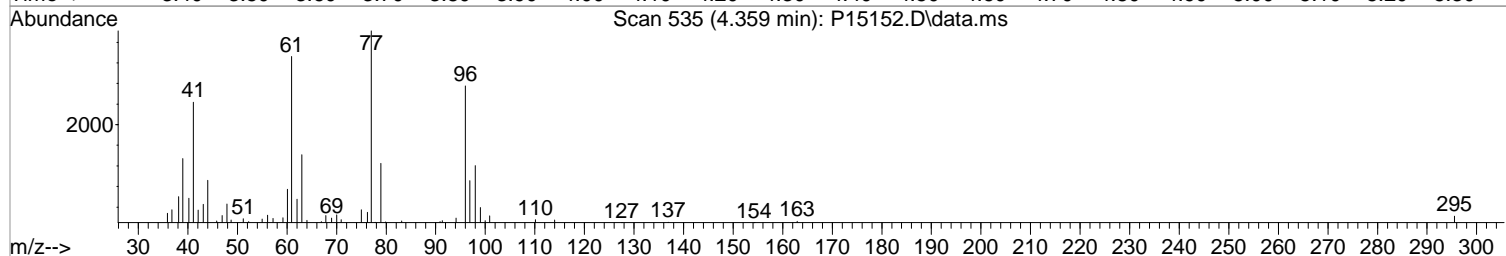
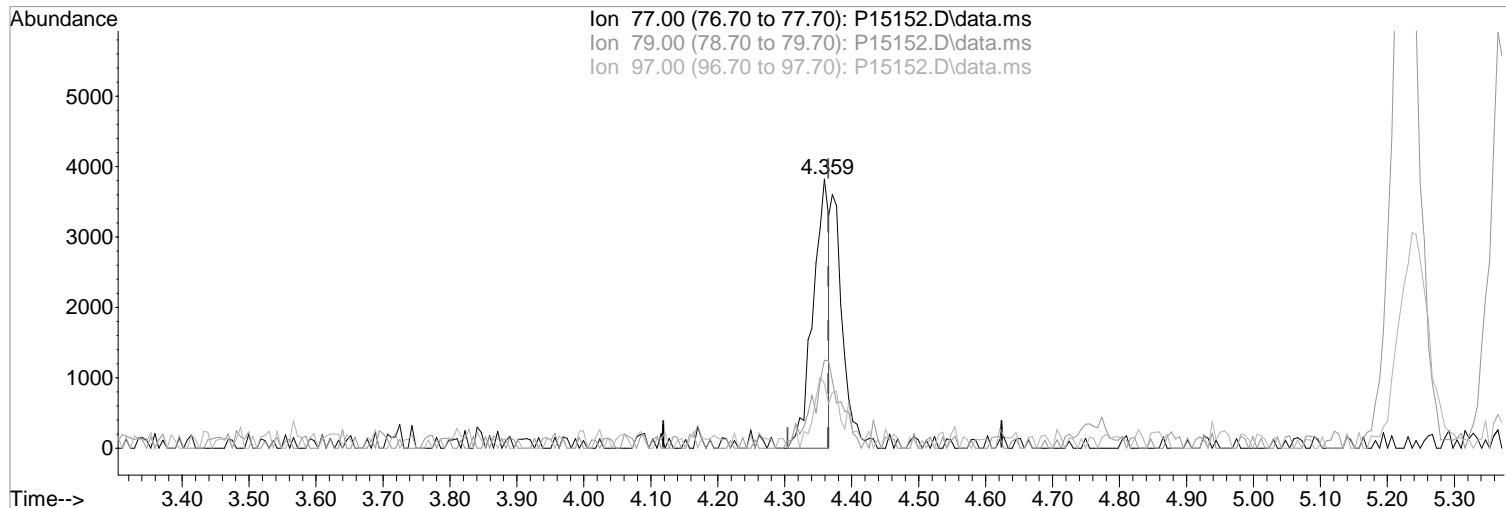
01/02/18

Ion	Exp%	Act%
77.00	100	100
79.00	32.10	32.71
97.00	20.60	23.93
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15152.D\data.ms

(33) 2,2-Dichloropropane  
4.359min (-0.006) 1.27 ppb  
response 6313

Manual Integration:

Before

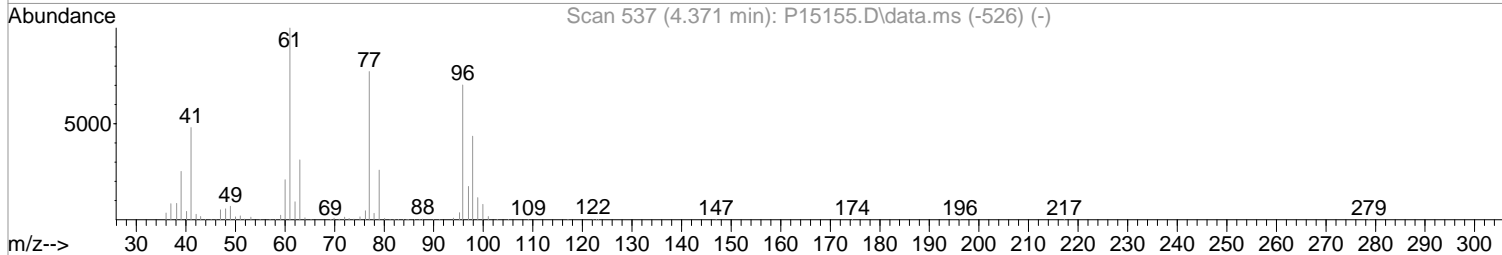
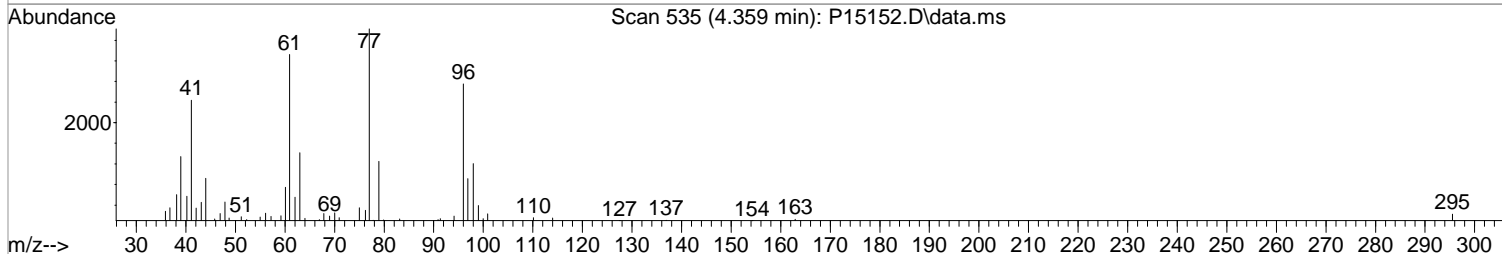
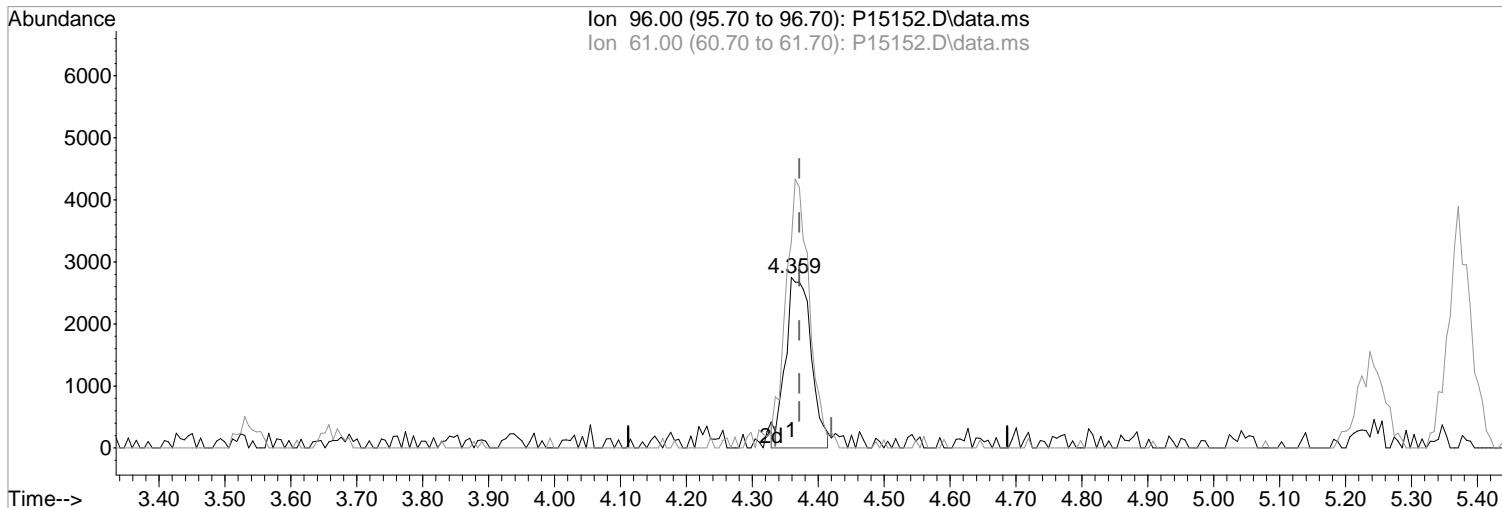
Ion	Exp%	Act%
77.00	100	100
79.00	32.10	32.71
97.00	20.60	23.93
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(34) cis-1,2-Dichloroethene (P)

4.359min (-0.012) 2.01 ppb m  
response 7407

Ion	Exp%	Act%
96.00	100	100
61.00	142.80	120.72#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

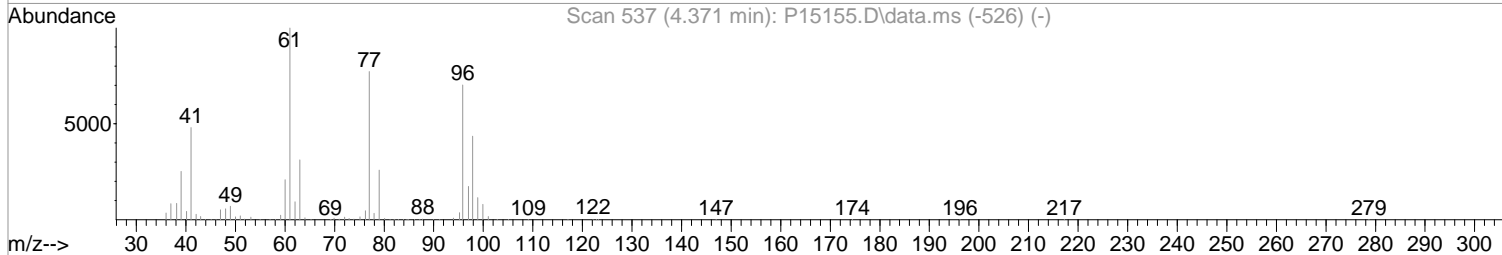
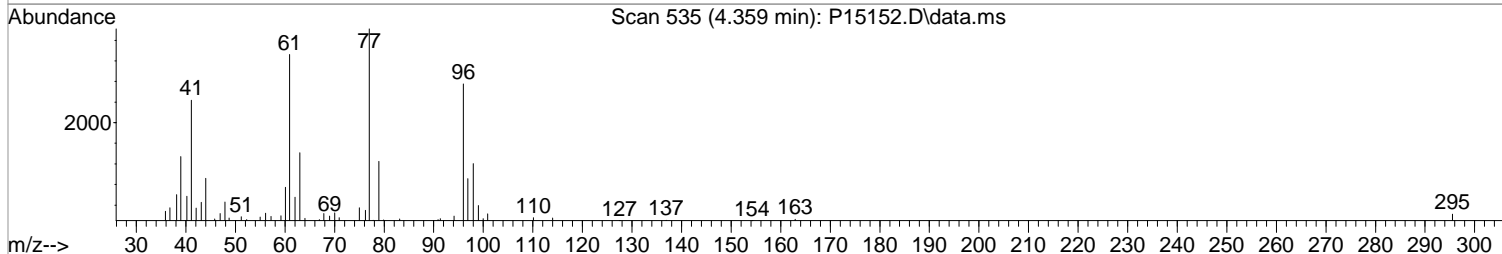
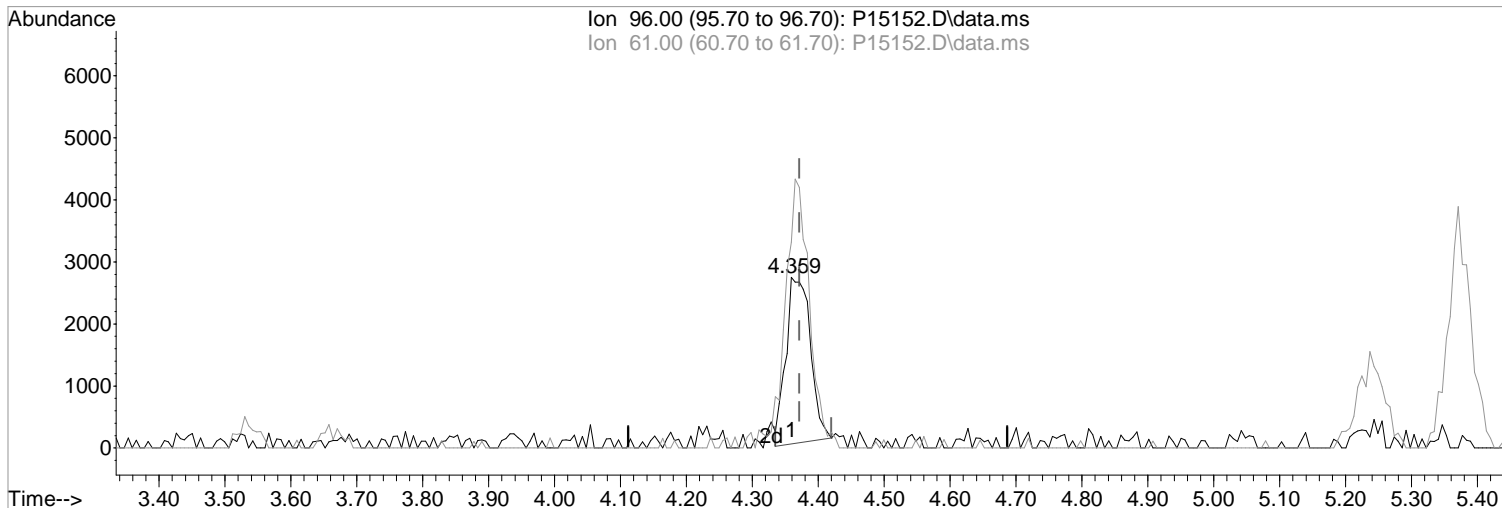
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15152.D\data.ms

(34) cis-1,2-Dichloroethene (P)

Manual Integration:

4.359min (-0.012) 1.87 ppb

Before

response 6877

Ion Exp% Act%

01/02/18

96.00 100 100

61.00 142.80 120.72#

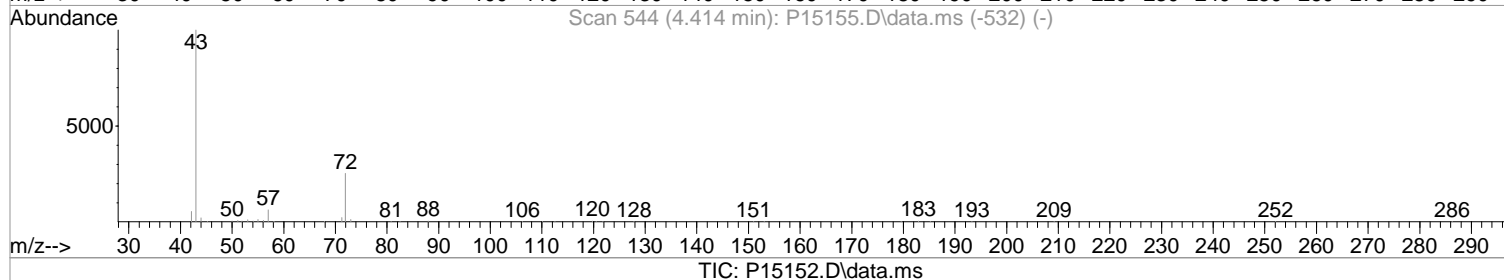
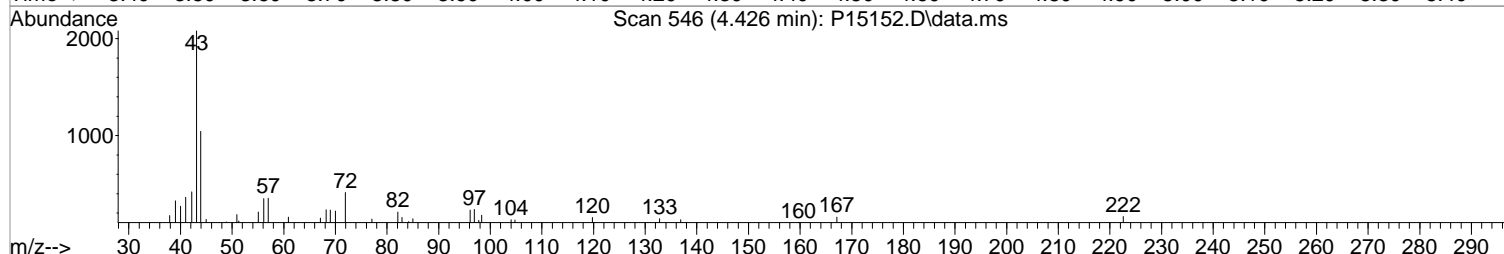
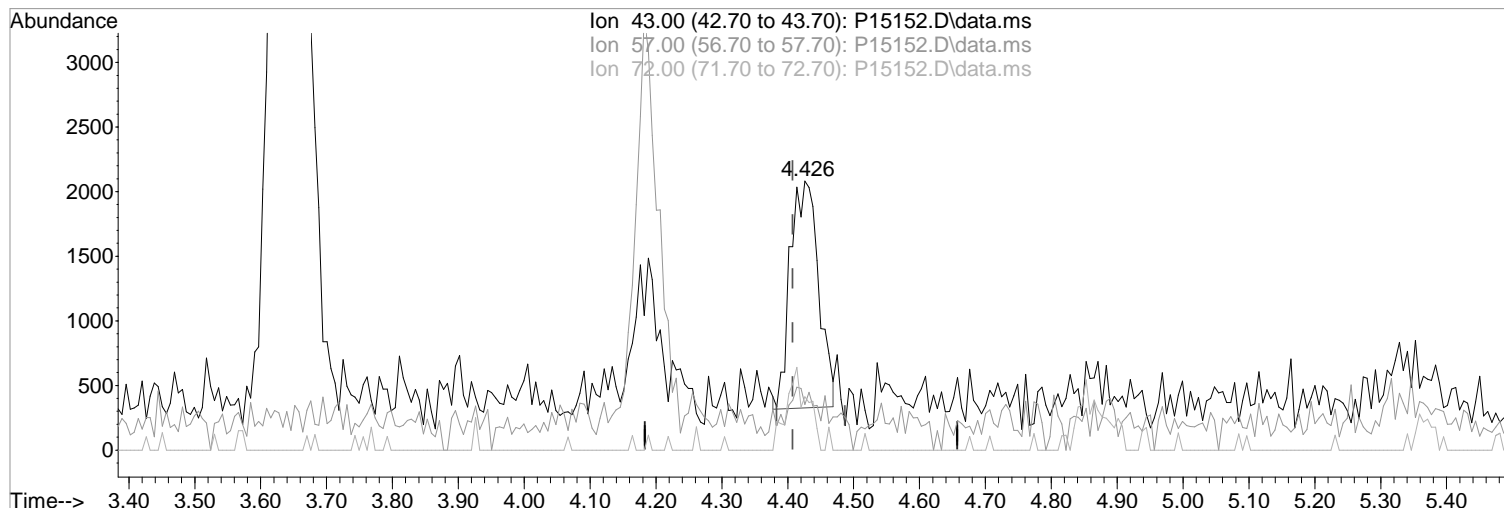
0.00 0.00 0.00

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(35) 2-Butanone (P)

4.426min (+0.018) 2.34 ppb m

response 5215

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	17.00
72.00	26.10	19.84
0.00	0.00	0.00

Manual Integration:

After

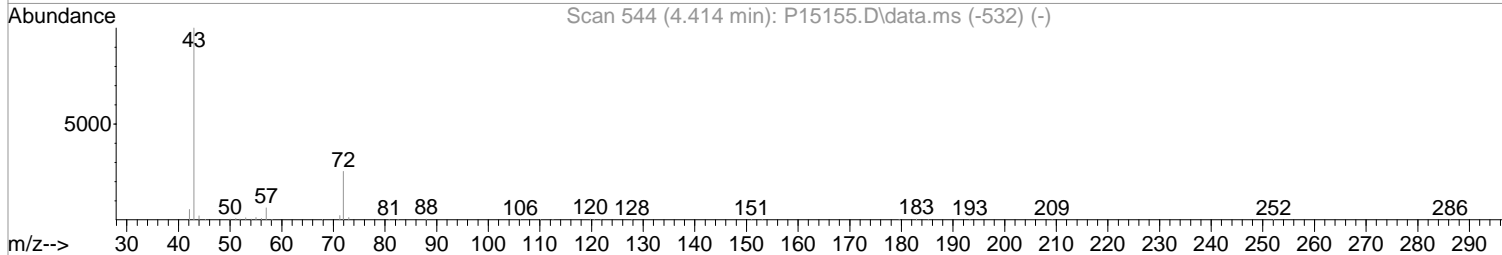
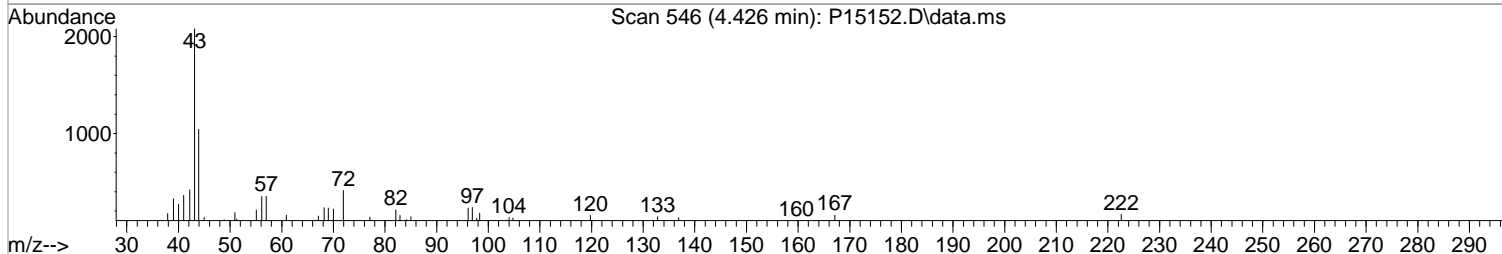
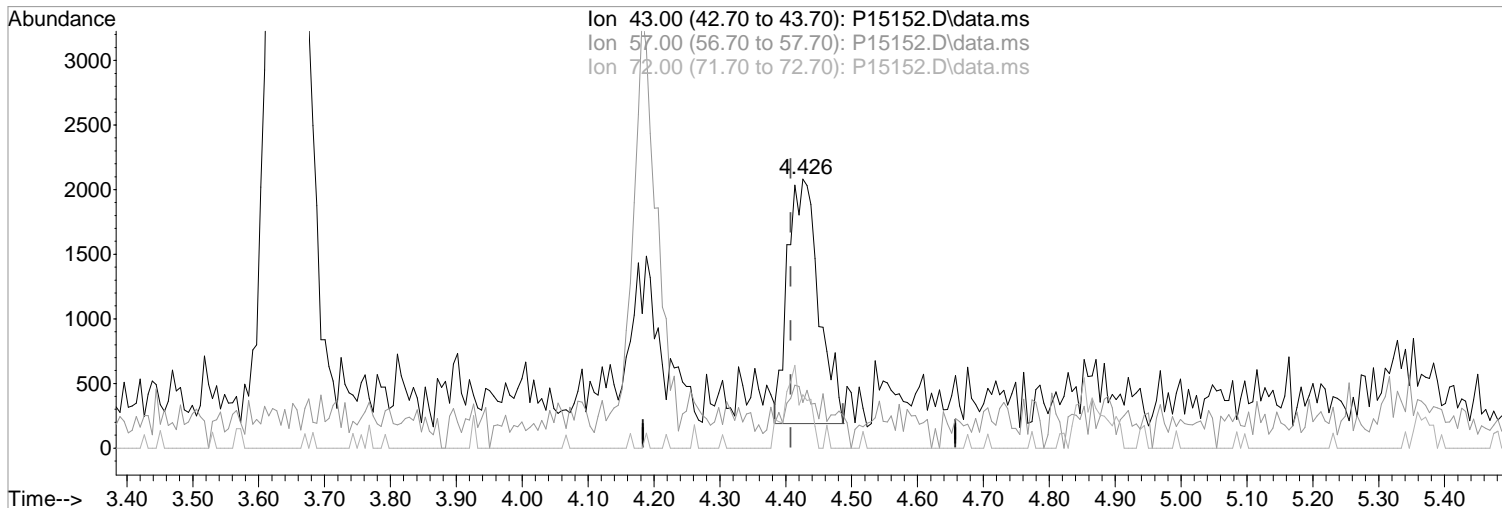
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(35) 2-Butanone (P)  
4.426min (+0.018) 2.77 ppb  
response 6181

Ion	Exp%	Act%
43.00	100	100
57.00	6.70	17.00
72.00	26.10	19.84
0.00	0.00	0.00

Manual Integration:

Before

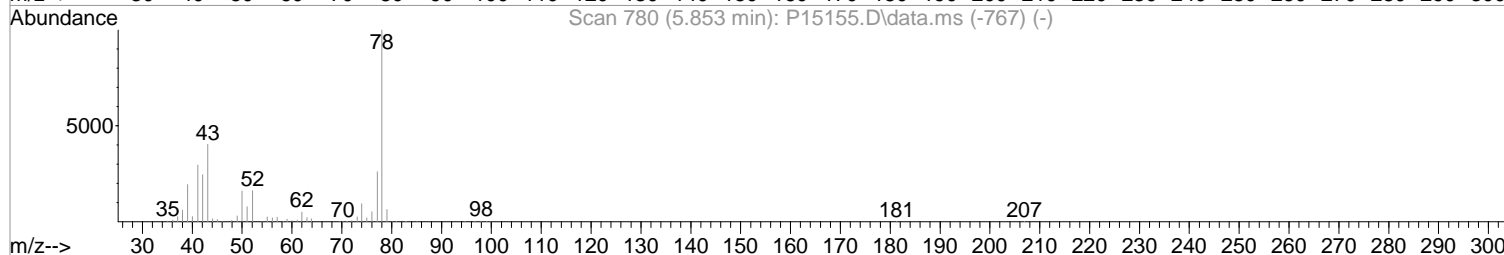
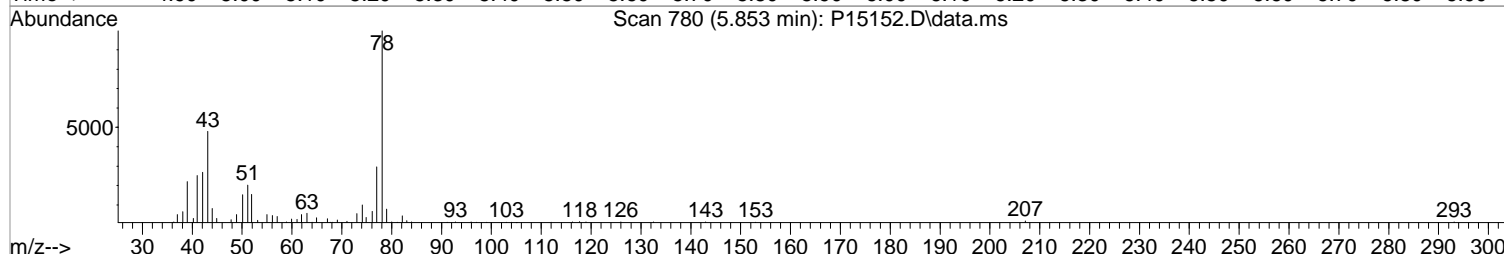
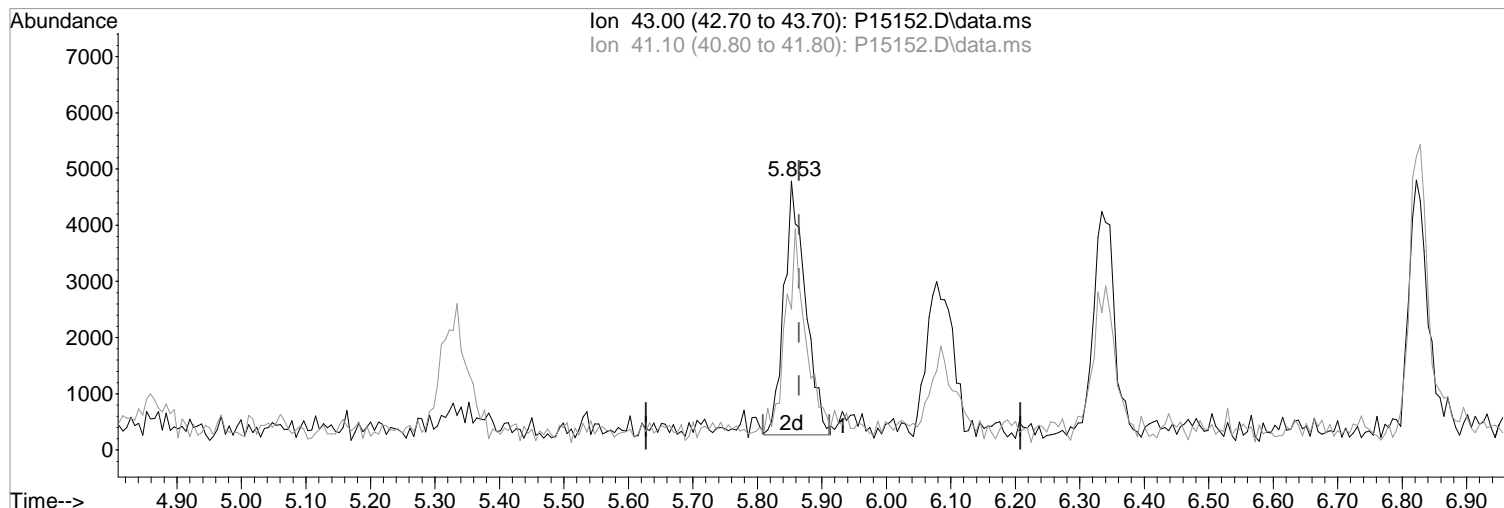
01/02/18



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(51) Iso-Butyl Alcohol  
5.853min (-0.012) 41.65 ppb m  
response 10416

Manual Integration:  
After  
Peak not found.

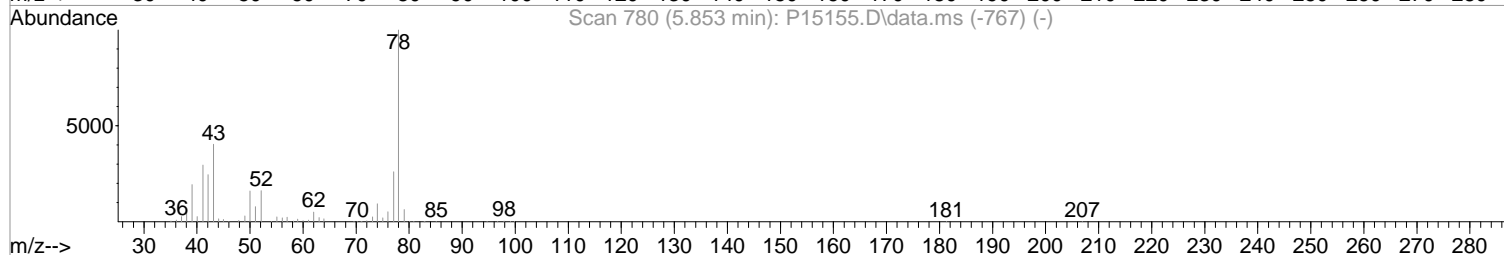
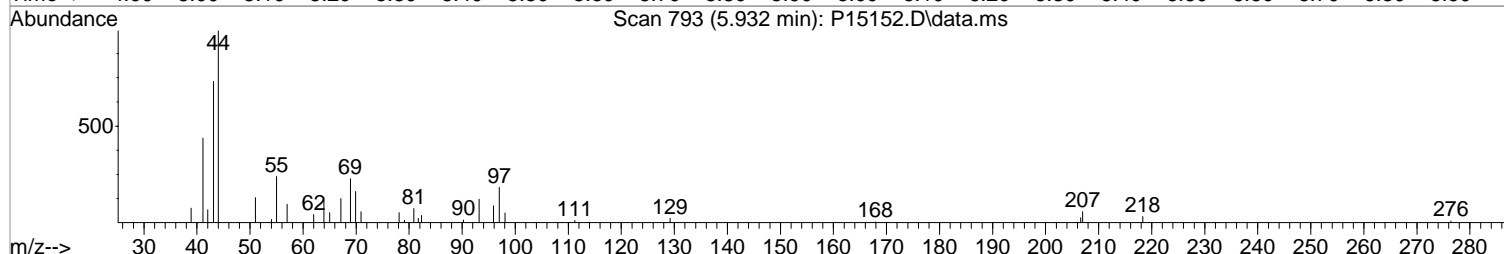
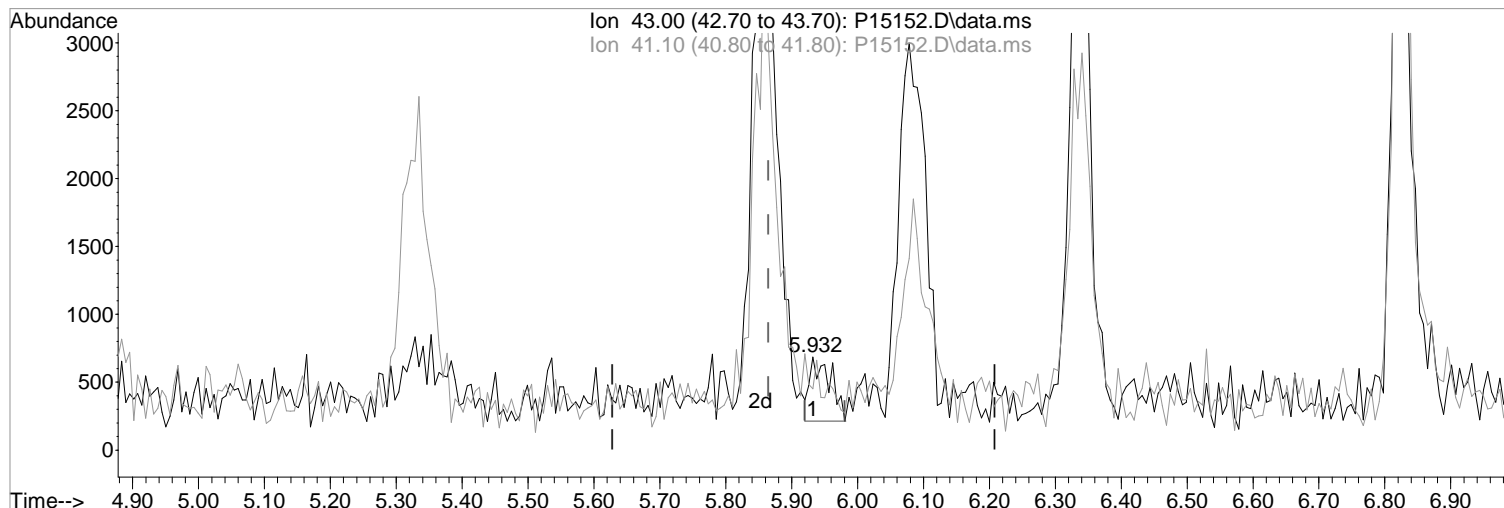
Ion	Exp%	Act%
43.00	100	100
41.10	73.30	52.44#
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(51) Iso-Butyl Alcohol  
5.932min (+0.067) 4.12 ppb  
response 1031

Manual Integration:  
Before

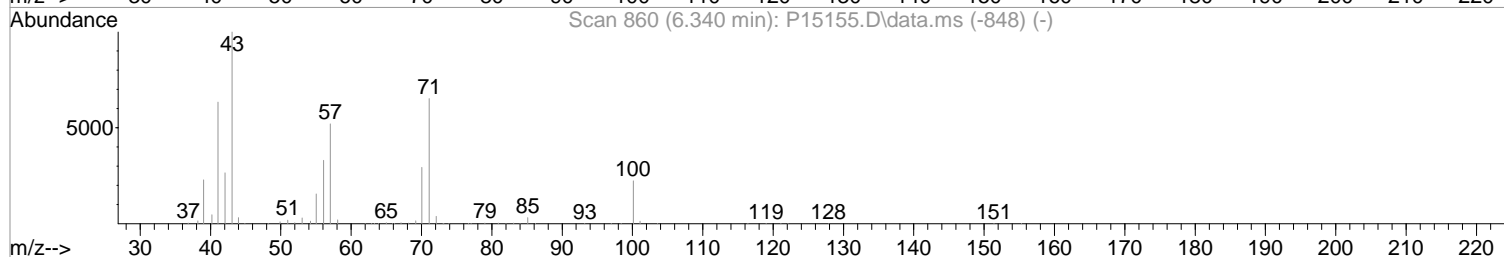
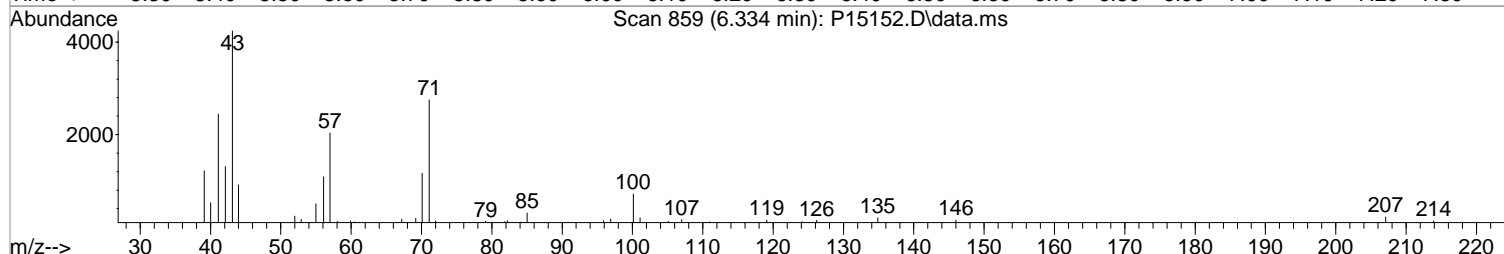
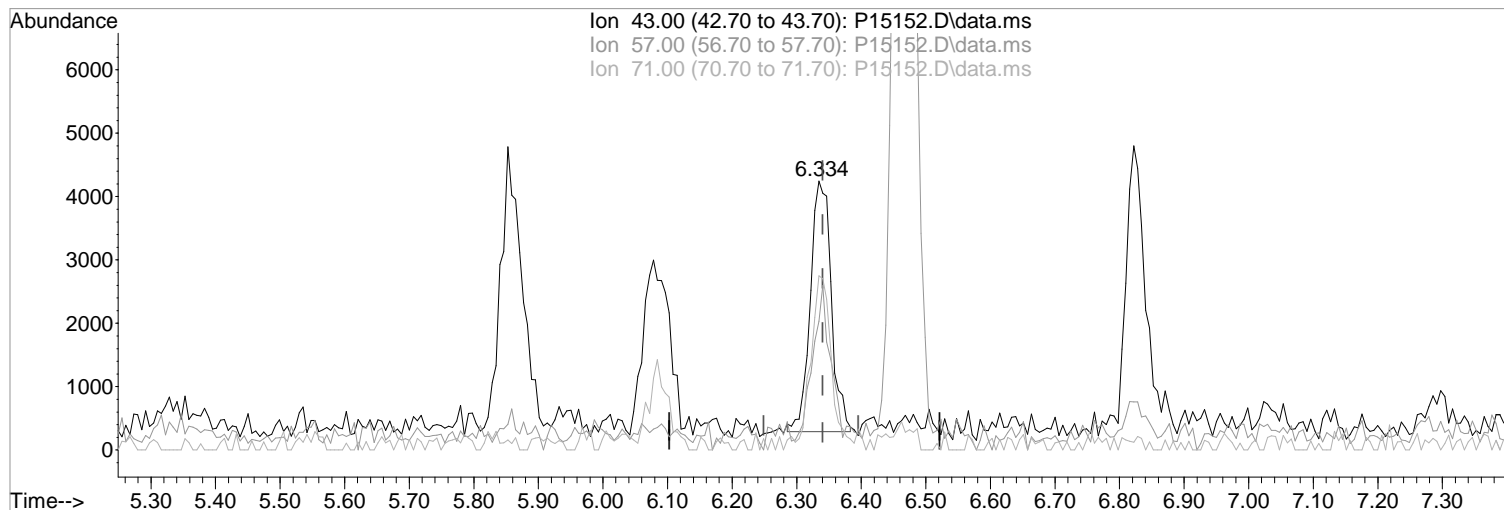
Ion	Exp%	Act%
43.00	100	100
41.10	73.30	65.84
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(52) n-Heptane

6.334min (-0.006) 2.08 ppb m

response 8868

Ion	Exp%	Act%
43.00	100	100
57.00	52.10	47.87
71.00	65.30	64.81
0.00	0.00	0.00

Manual Integration:

After

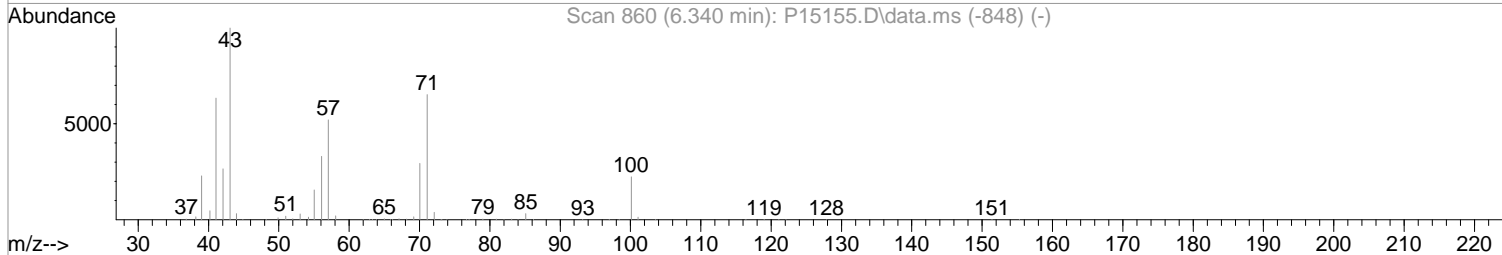
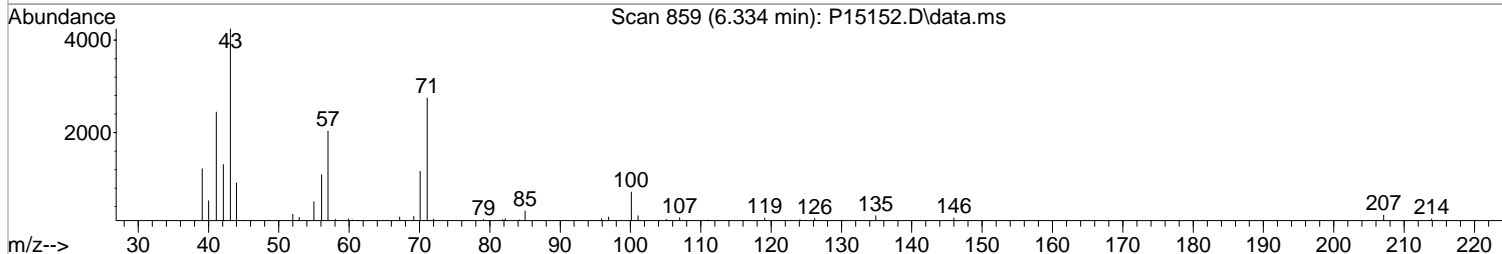
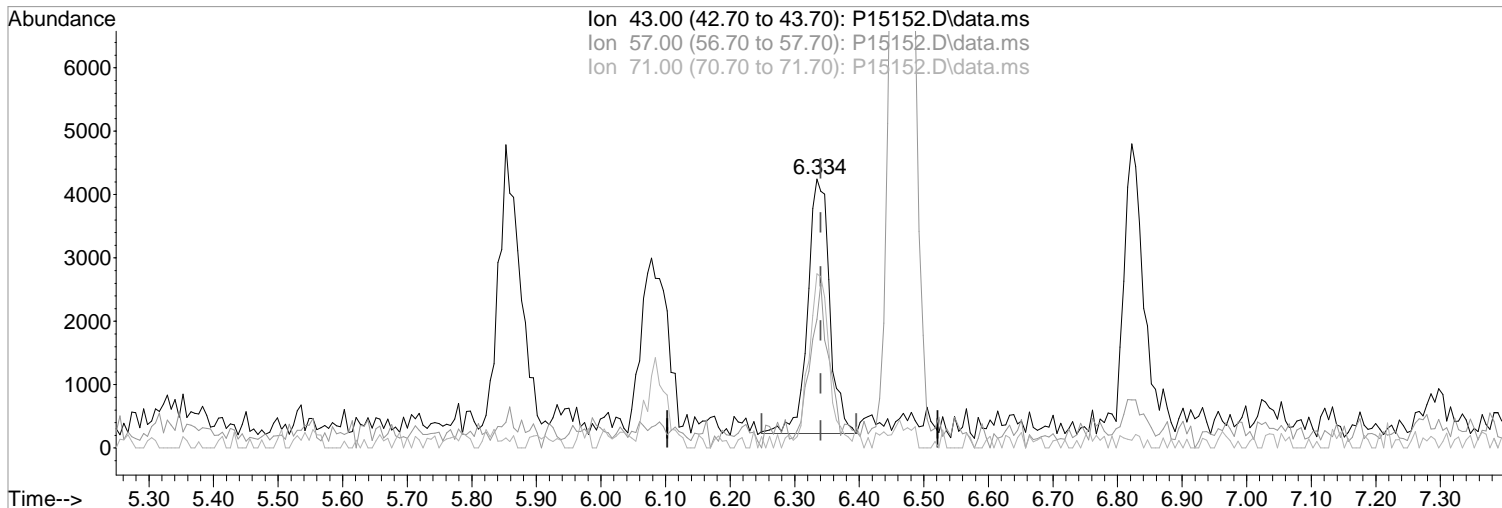
Poor integration.

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15152.D  
Acq On : 29 Dec 2017 6:06 pm  
Operator : K.Ruest  
Sample : 2.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:44 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(52) n-Heptane  
6.334min (-0.006) 2.21 ppb  
response 9450

Manual Integration:  
Before

Ion	Exp%	Act%
43.00	100	100
57.00	52.10	47.87
71.00	65.30	64.81
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.371	168	290921	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	471936	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	416493	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	202842	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	140691	50.21	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.42%		
48) surr1,1,2-dichloroetha...	5.767	65	192694	50.18	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.36%		
65) SURR3,Toluene-d8	8.291	98	616679	49.29	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.58%		
70) SURR2,BFB	10.858	95	234627	48.47	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.94%		
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	6164	1.72	ppb		95
3) Chloromethane	1.305	50	9252	2.09	ppb		87
4) Vinyl Chloride	1.384	62	8466	1.96	ppb		76
5) Bromomethane	1.610	94	7983	2.44	ppb		92
6) Chloroethane	1.683	64	6348	2.36	ppb		81
7) Freon 21	1.835	67	10821	1.93	ppb		88
8) Trichlorofluoromethane	1.884	101	8938	2.15	ppb		92
9) Diethyl Ether	2.116	59	6309	2.19	ppb		90
10) Freon 123a	2.116	67	6930	1.99	ppb		92
11) Freon 123	2.170	83	7698	1.89	ppb		94
12) Acrolein	2.213	56	8734	10.15	ppb		78
13) 1,1-Dicethene	2.305	96	5689	1.90	ppb		94
14) Freon 113	2.311	101	5879	2.08	ppb		80
15) Acetone	2.347	43	4395	2.49	ppb		93
16) 2-Propanol	2.475	45	14316	42.06	ppb		97
17) Iodomethane	2.445	142	891	0.33	ppb		100
18) Carbon Disulfide	2.494	76	17215	1.98	ppb		99
19) Acetonitrile	2.603	40	2940	9.82	ppb		95
20) Allyl Chloride	2.634	76	3647	2.29	ppb	#	86
21) Methyl Acetate	2.658	43	6838	2.16	ppb		93
22) Methylene Chloride	2.743	84	6734	2.14	ppb		93
23) TBA	2.872	59	24620	41.97	ppb		96
24) Acrylonitrile	3.000	53	17097	10.04	ppb		96
25) Methyl-t-Butyl Ether	3.048	73	22969	2.14	ppb		96
26) trans-1,2-Dichloroethene	3.042	96	6244	2.00	ppb		99
28) 1,1-Dicethane	3.530	63	11380	2.03	ppb		96
29) Vinyl Acetate	3.627	86	1385	1.51	ppb	#	46
30) DIPE	3.664	45	21975	2.06	ppb		90
31) 2-Chloro-1,3-Butadiene	3.658	53	10830	2.00	ppb		90
32) ETBE	4.194	59	22402	2.08	ppb		100
33) 2,2-Dichloropropane	4.359	77	10714m	2.15	ppb		
34) cis-1,2-Dichloroethene	4.359	96	7407m	2.01	ppb		
35) 2-Butanone	4.426	43	5215m	2.34	ppb		
36) Propionitrile	4.493	54	7461	10.31	ppb		75
37) Bromochloromethane	4.767	130	4174	2.06	ppb		88
38) Methacrylonitrile	4.767	67	3561	1.90	ppb		97
39) Tetrahydrofuran	4.871	42	2476	1.90	ppb		69
40) Chloroform	4.938	83	12891	2.12	ppb		94
41) 1,1,1-Trichloroethane	5.237	97	9664	2.02	ppb		94

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	21979	2.09	ppb	94
44) Cyclohexane	5.334	41	6707	2.18	ppb	99
46) Carbontetrachloride	5.517	117	7282	2.06	ppb	83
47) 1,1-Dichloropropene	5.530	75	9048	2.18	ppb	85
49) Benzene	5.847	78	25719	2.09	ppb	98
50) 1,2-Dichloroethane	5.883	62	9372	2.07	ppb	96
51) Iso-Butyl Alcohol	5.853	43	10416m	41.65	ppb	
52) n-Heptane	6.334	43	8868m	2.08	ppb	
53) 1-Butanol	6.828	56	17334	104.77	ppb	94
54) Trichloroethene	6.798	130	5834	1.85	ppb	# 71
55) Methylcyclohexane	7.035	55	8960	2.18	ppb	# 80
56) 1,2-Diclpropane	7.072	63	7144	2.17	ppb	93
57) Dibromomethane	7.218	93	4230	2.15	ppb	98
58) 1,4-Dioxane	7.279	88	2348	36.17	ppb	91
59) Methyl Methacrylate	7.310	69	5422	1.79	ppb	94
60) Bromodichloromethane	7.444	83	8837	2.12	ppb	92
61) 2-Nitropropane	7.730	41	6265	4.94	ppb	92
62) 2-Chloroethylvinyl Ether	7.858	63	1336	1.79	ppb	74
63) cis-1,3-Dichloropropene	7.992	75	9647	1.85	ppb	96
64) 4-Methyl-2-pentanone	8.200	43	8444	2.10	ppb	87
66) Toluene	8.364	91	28677	2.14	ppb	97
67) trans-1,3-Dichloropropene	8.633	75	9847	2.02	ppb	93
68) Ethyl Methacrylate	8.773	69	9763	1.99	ppb	96
69) 1,1,2-Trichloroethane	8.815	97	6436	2.12	ppb	84
72) Tetrachloroethene	8.956	164	4879	2.12	ppb	# 88
73) 2-Hexanone	9.114	43	6125	2.00	ppb	100
74) 1,3-Dichloropropane	8.992	76	11726	2.19	ppb	99
75) Dibromochloromethane	9.218	129	5554	1.99	ppb	96
76) N-Butyl Acetate	9.267	43	11696	2.03	ppb	91
77) 1,2-Dibromoethane	9.315	107	5958	2.01	ppb	90
78) Chlorobenzene	9.809	112	16904	2.07	ppb	95
79) 3-CBTF	9.827	180	8895	2.04	ppb	96
80) 4-CBTF	9.882	180	8674	2.18	ppb	94
81) 1,1,1,2-Tetrachloroethane	9.895	131	5961	2.06	ppb	96
82) Ethylbenzene	9.931	106	9782	2.17	ppb	99
83) (m+p)Xylene	10.041	106	23814	4.37	ppb	91
84) o-Xylene	10.401	106	11433	2.09	ppb	96
85) Styrene	10.413	104	18180	1.98	ppb	96
87) Bromoform	10.565	173	3828	2.16	ppb	85
88) 2-CBTF	10.644	180	9285	2.31	ppb	# 94
89) Isopropylbenzene	10.736	105	28652	2.15	ppb	93
90) Cyclohexanone	10.797	55	45829	45.20	ppb	96
91) trans-1,4-Dichloro-2-B...	11.047	53	2048	1.94	ppb	84
92) 1,1,2,2-Tetrachloroethane	10.992	83	7917	1.97	ppb	89
93) Bromobenzene	10.980	156	7311	2.24	ppb	94
94) 1,2,3-Trichloropropane	11.022	110	2631	2.01	ppb	# 87
95) n-Propylbenzene	11.095	91	32706	2.11	ppb	95
96) 2-Chlorotoluene	11.156	91	20465	2.13	ppb	95
97) 3-Chlorotoluene	11.211	91	23266	2.30	ppb	97
98) 4-Chlorotoluene	11.248	91	24143	2.17	ppb	98
99) 1,3,5-Trimethylbenzene	11.248	105	23960	2.15	ppb	94
100) tert-Butylbenzene	11.516	119	21124	2.20	ppb	95
101) 1,2,4-Trimethylbenzene	11.559	105	25245	2.26	ppb	99
102) 3,4-DCBTF	11.620	214	7094	2.21	ppb	93
103) sec-Butylbenzene	11.705	105	29905	2.11	ppb	96
104) p-Isopropyltoluene	11.827	119	26248	2.20	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 4 Sample Multiplier: 1

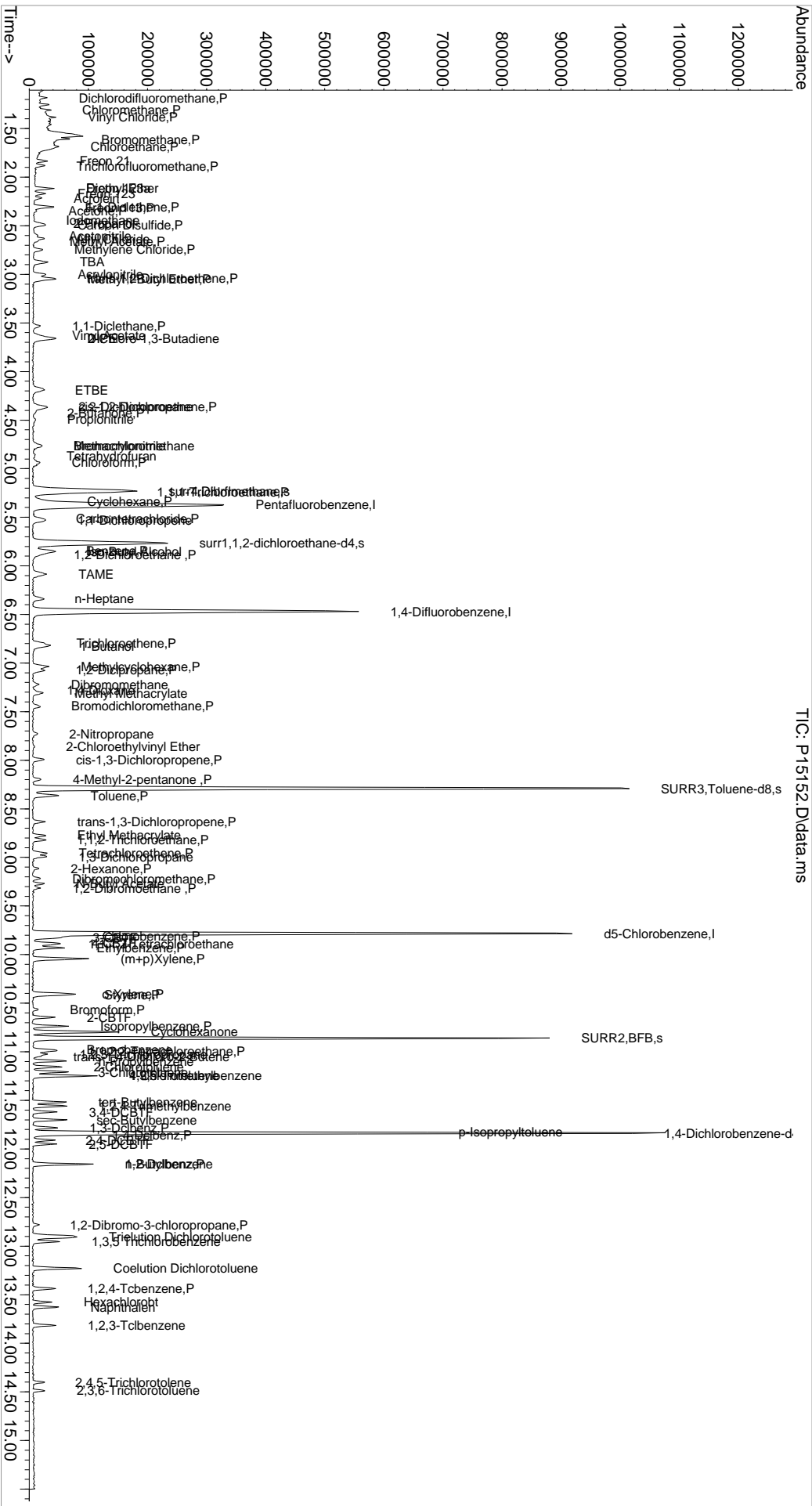
Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	12674	2.04	ppb	98
106) 1,4-Dclbenz	11.858	146	13809	2.12	ppb	93
107) 2,4-DCBTF	11.912	214	6322	2.13	ppb #	80
108) 2,5-DCBTF	11.949	214	7133	2.24	ppb	88
109) n-Butylbenzene	12.156	91	22604	2.03	ppb	98
110) 1,2-Dclbenz	12.156	146	12688	2.05	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.784	157	2165	2.14	ppb	95
112) Trielution Dichlorotol...	12.906	125	37014	6.08	ppb	94
113) 1,3,5 Trichlorobenzene	12.955	180	10137	2.10	ppb	91
114) Coelution Dichlorotoluene	13.229	125	25573	3.96	ppb	96
115) 1,2,4-Tcbenzene	13.437	180	9011	2.00	ppb	99
116) Hexachlorobt	13.577	225	4926	2.36	ppb	88
117) Naphthalen	13.626	128	24217	1.95	ppb	98
118) 1,2,3-Tclbenzene	13.814	180	9296	2.13	ppb	90
119) 2,4,5-Trichlorotolene	14.406	159	3689	1.39	ppb #	91
120) 2,3,6-Trichlorotoluene	14.485	159	3383	1.40	ppb #	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15152.D  
 Acq On : 29 Dec 2017 6:06 pm  
 Operator : K.Ruest  
 Sample : 2.0ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 4 Sample Multiplier: 1  
 Inst : MSVOA-12

Quant Time: Jan 02 11:27:18 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

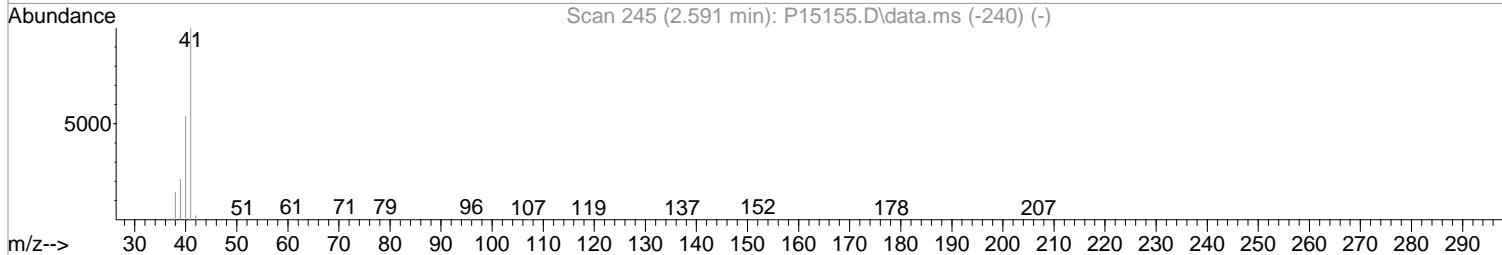
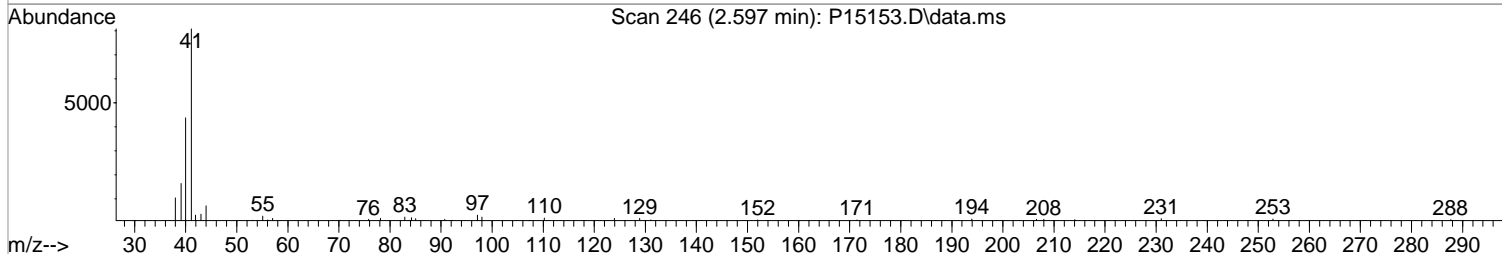
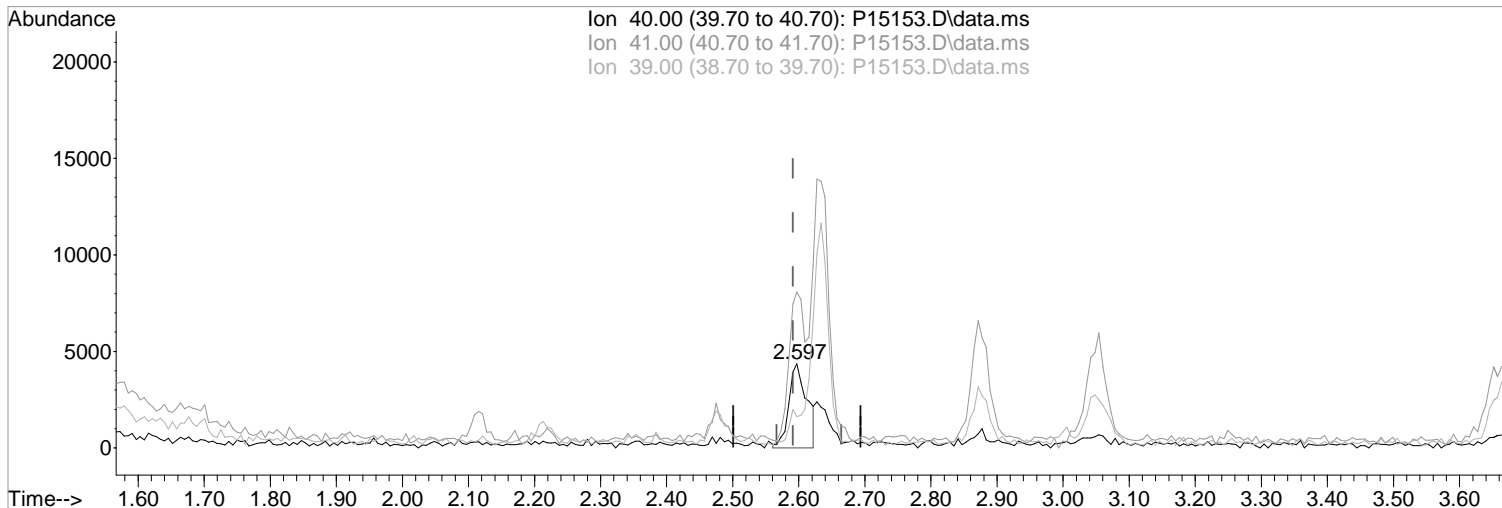




Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(19) Acetonitrile  
2.597min (+0.006) 28.53 ppb m  
response 8323

Manual Integration:  
After  
Poor integration.

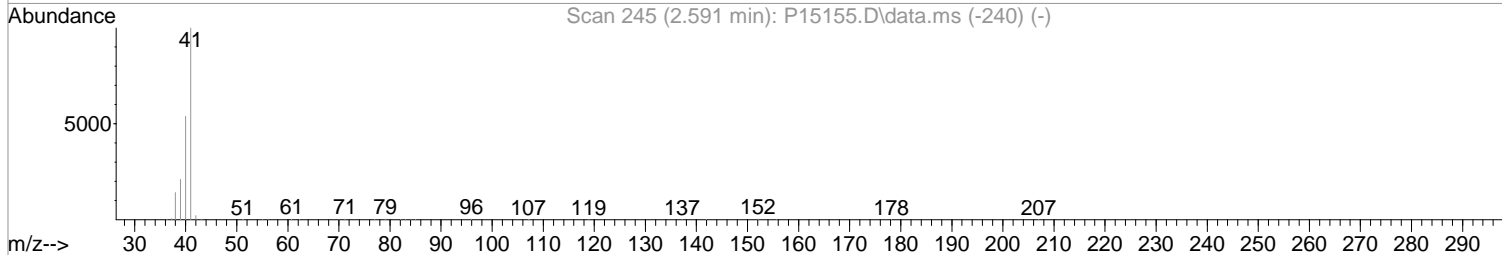
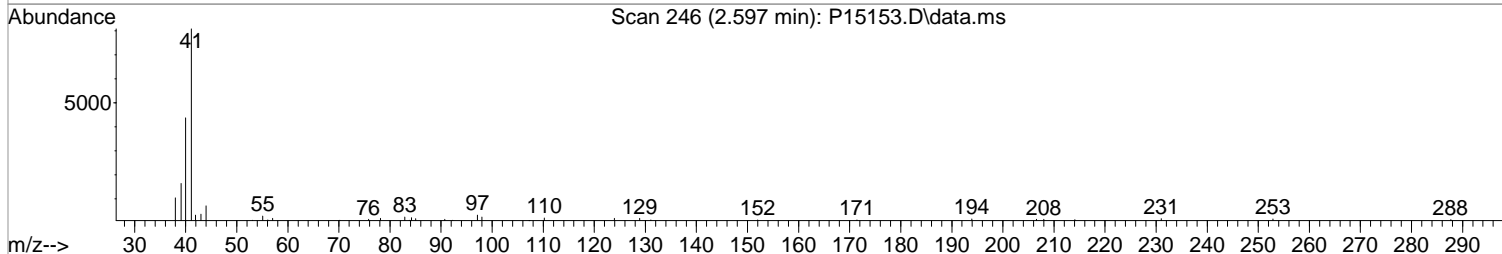
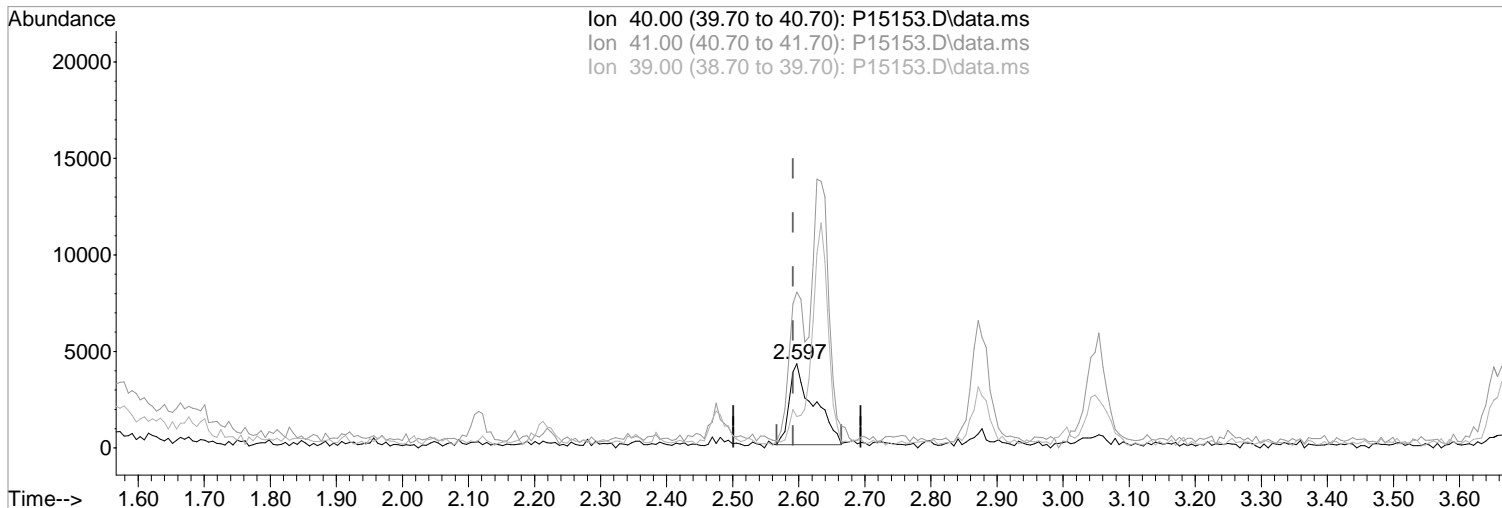
Ion	Exp%	Act%
40.00	100	100
41.00	186.50	184.90
39.00	40.10	37.44
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(19) Acetonitrile  
2.597min (+0.006) 36.98 ppb  
response 10787

Manual Integration:  
Before

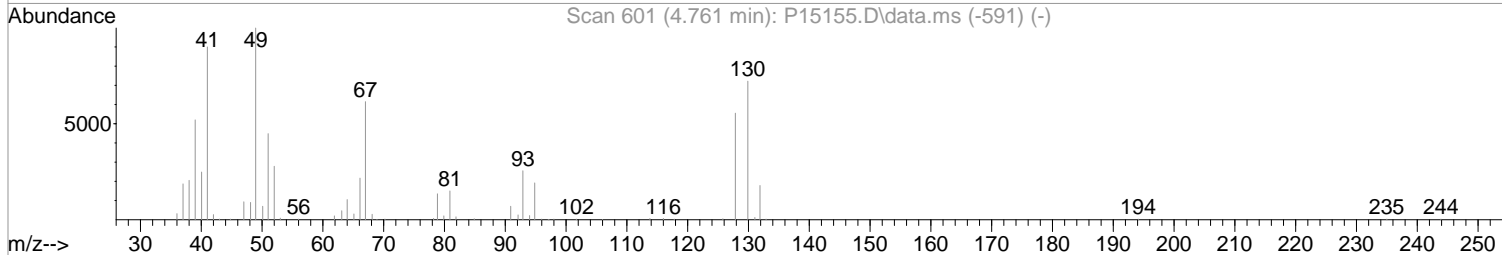
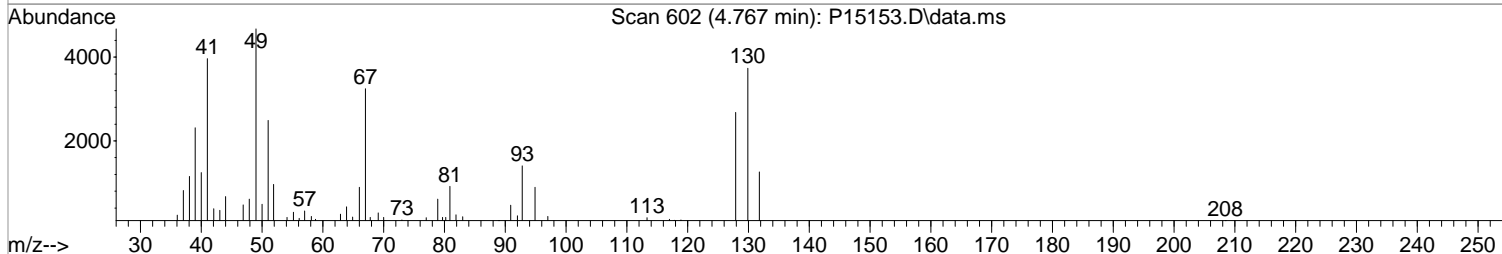
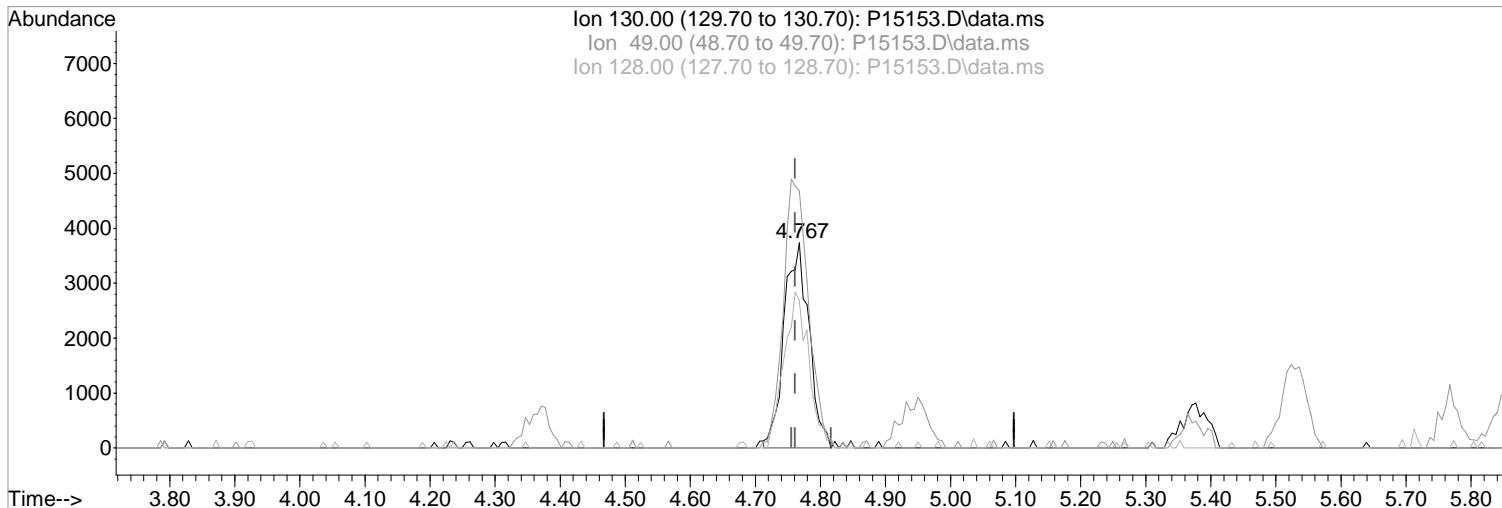
Ion	Exp%	Act%
40.00	100	100
41.00	186.50	184.90
39.00	40.10	37.44
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(37) Bromochloromethane  
4.767min (+0.006) 5.02 ppb m  
response 9891

Manual Integration:

After  
Split Peak

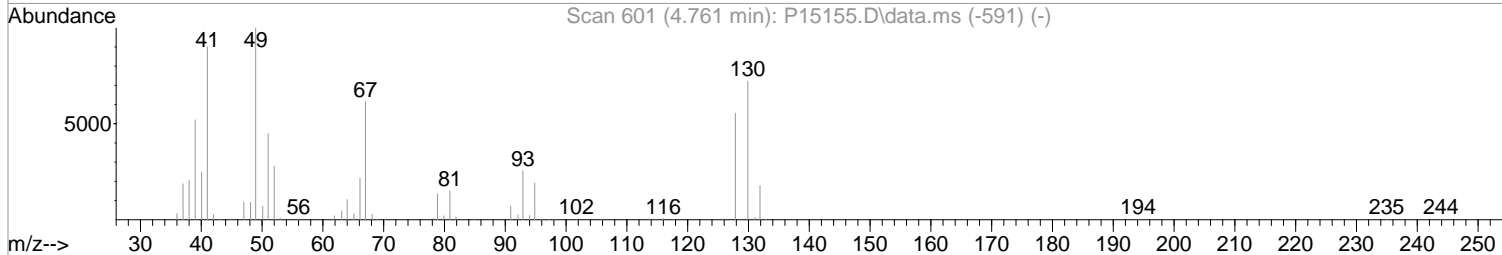
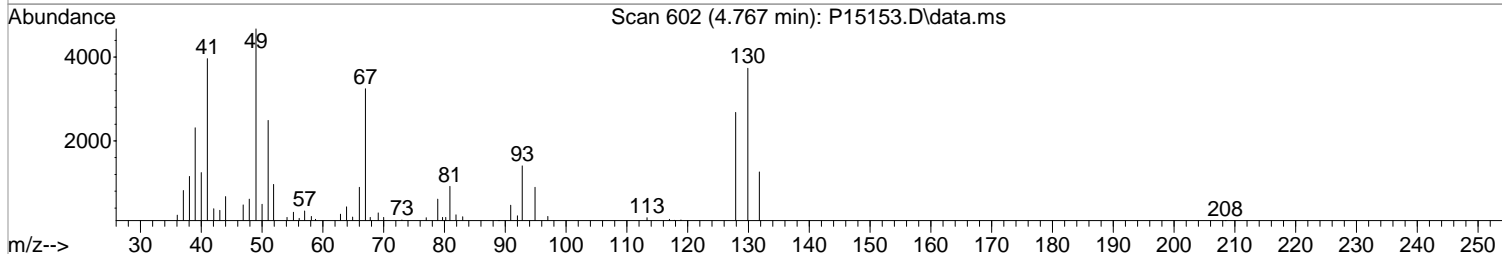
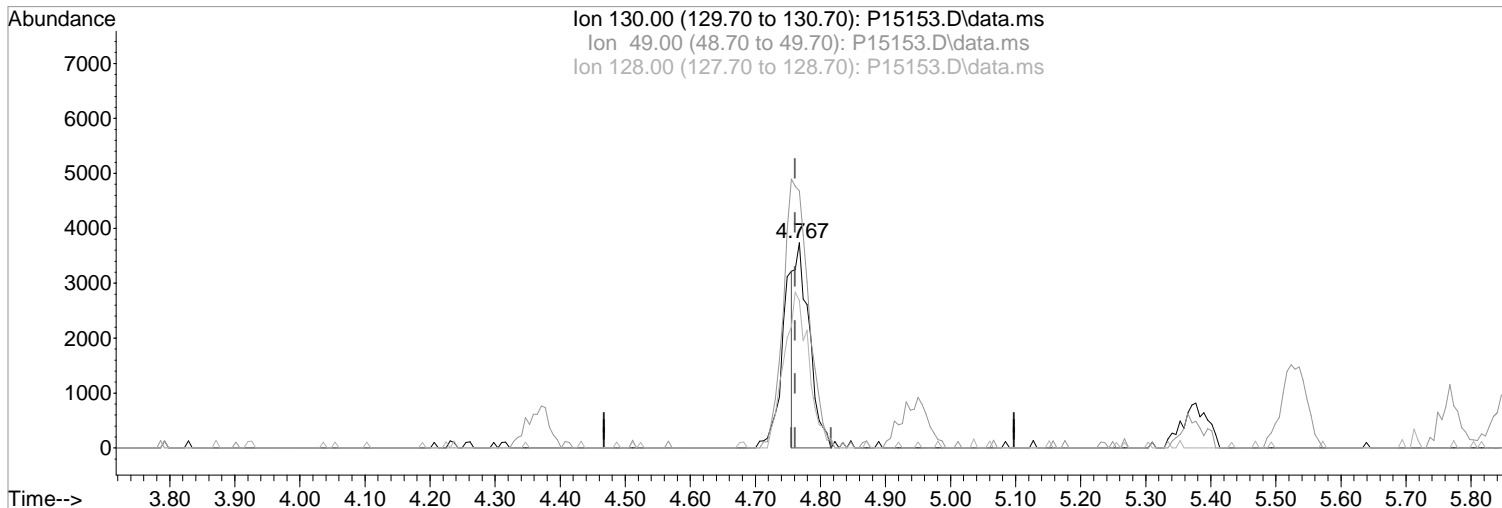
Ion	Exp%	Act%
130.00	100	100
49.00	139.00	125.22
128.00	77.10	71.83
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



TIC: P15153.D\data.ms

(37) Bromochloromethane

4.767min (+0.006) 3.03 ppb

response 5965

Ion Exp% Act%

130.00	100	100
49.00	139.00	125.22
128.00	77.10	71.83
0.00	0.00	0.00

Manual Integration:

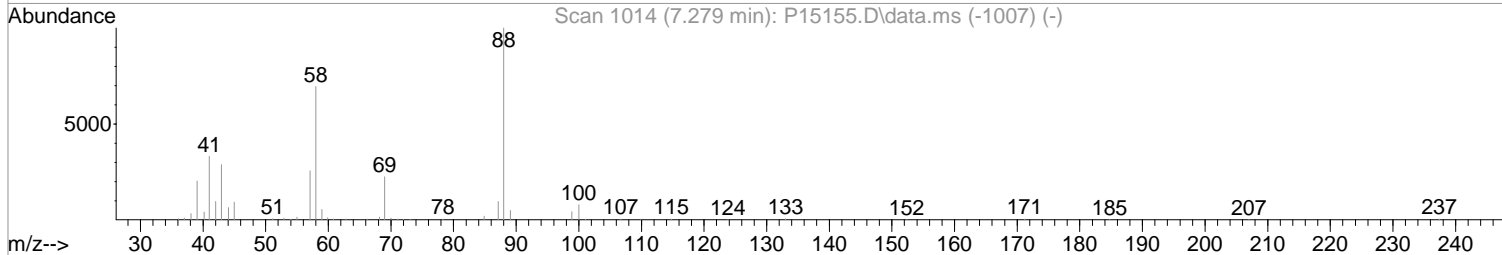
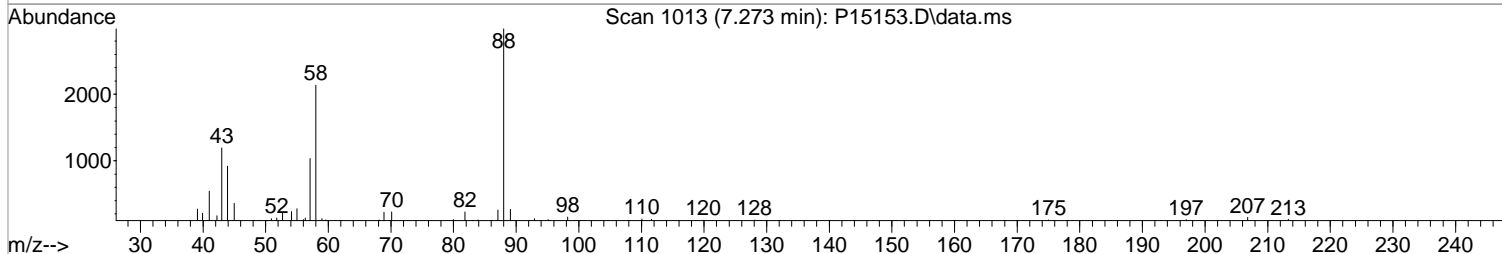
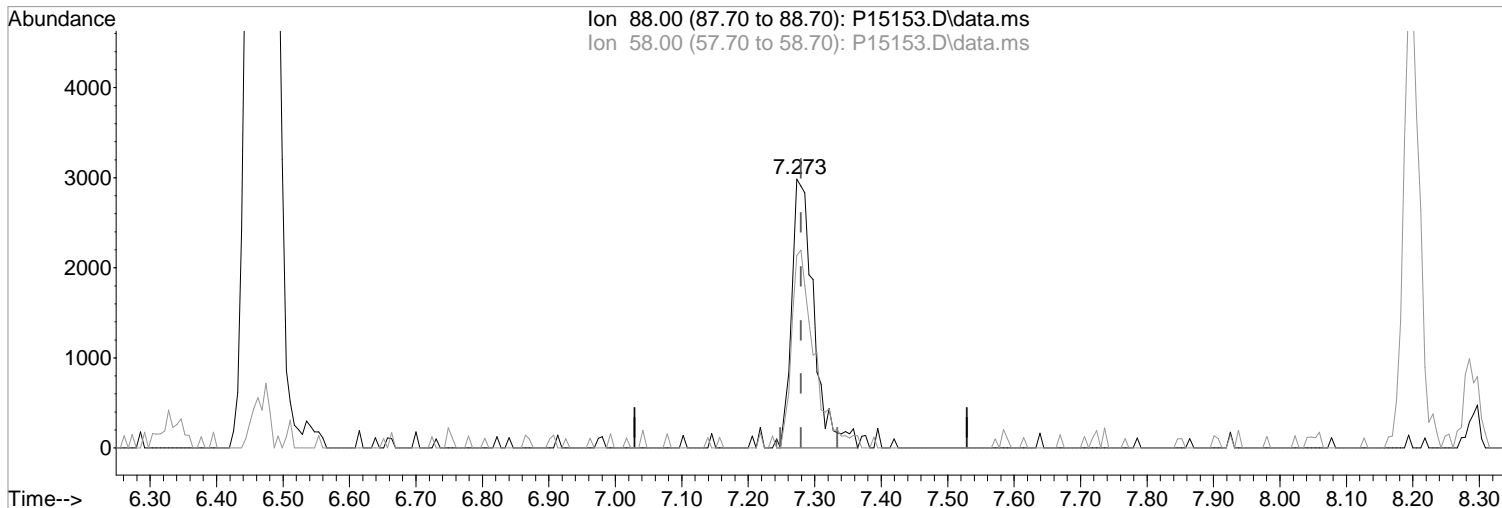
Before

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(58) 1,4-Dioxane  
7.273min (-0.006) 108.11 ppb m  
response 6912

Manual Integration:  
After  
Poor integration.

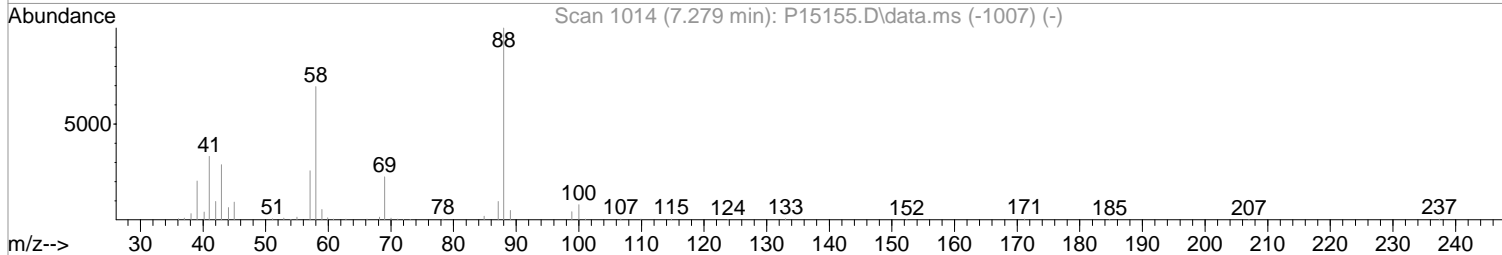
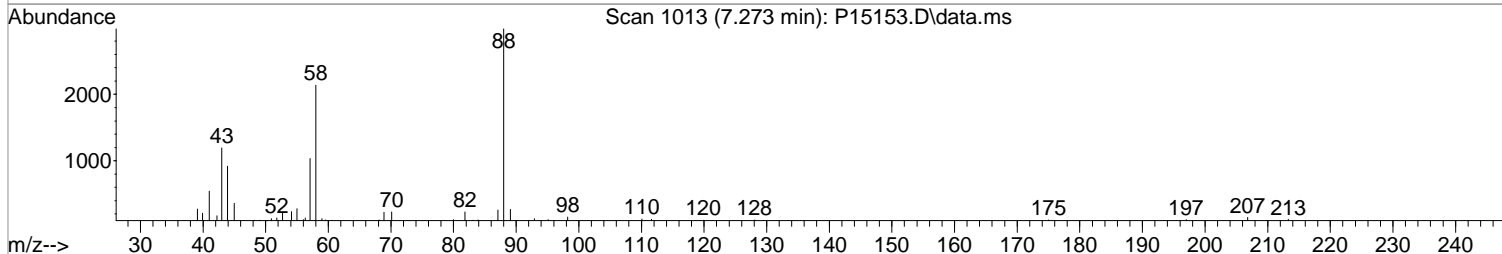
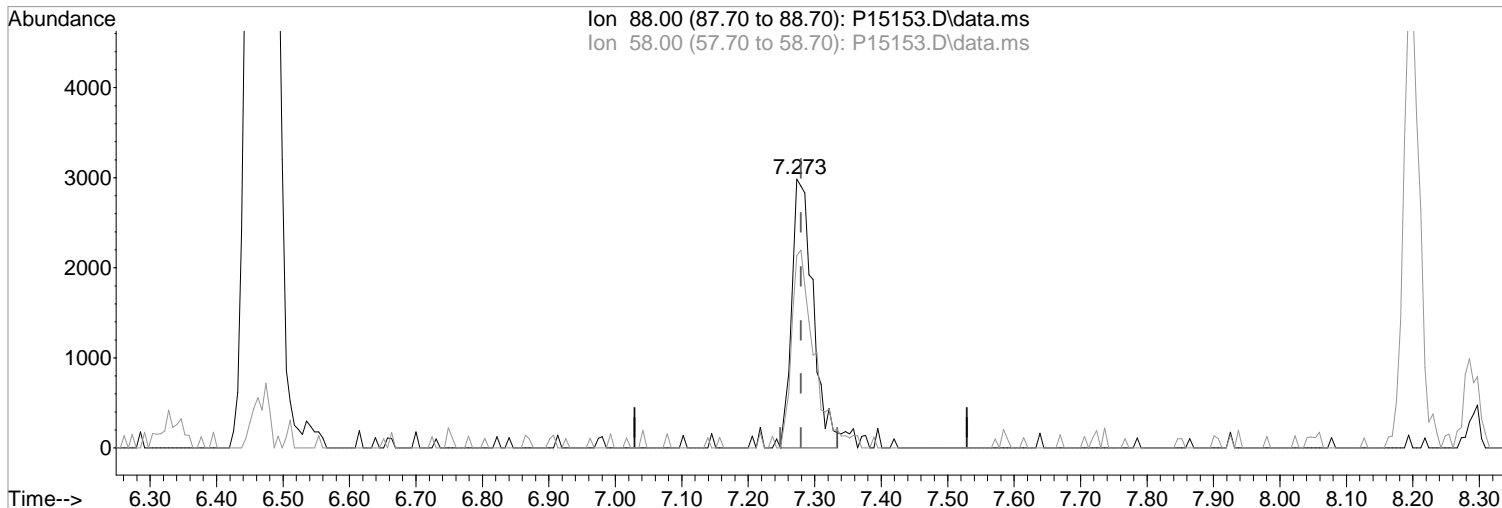
Ion	Exp%	Act%
88.00	100	100
58.00	70.00	71.57
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15153.D  
Acq On : 29 Dec 2017 6:28 pm  
Operator : K.Ruest  
Sample : 5.0ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:47 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



TIC: P15153.D\data.ms

(58) 1,4-Dioxane  
7.273min (-0.006) 104.03 ppb  
response 6651

Manual Integration:  
Before

Ion	Exp%	Act%
88.00	100	100
58.00	70.00	71.57
0.00	0.00	0.00
0.00	0.00	0.00

01/02/18

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	283392	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	464816	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	405388	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	203033	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.225	113	31481	11.41	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.82%#
48) surr1,1,2-dichloroetha...	5.767	65	43811	11.58	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	23.16%#
65) SURR3,Toluene-d8	8.291	98	146183	11.86	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.72%#
70) SURR2,BFB	10.858	95	55730	11.69	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	23.38%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	14887	4.26	ppb	96
3) Chloromethane	1.305	50	19472	4.52	ppb	97
4) Vinyl Chloride	1.384	62	21225	5.06	ppb	92
5) Bromomethane	1.609	94	19391	6.08	ppb	99
6) Chloroethane	1.689	64	13123	5.01	ppb	88
7) Freon 21	1.835	67	26792	4.91	ppb	95
8) Trichlorofluoromethane	1.884	101	20344	5.03	ppb	96
9) Diethyl Ether	2.115	59	14851	5.29	ppb	91
10) Freon 123a	2.122	67	17126	5.05	ppb	97
11) Freon 123	2.170	83	20299	5.12	ppb	96
12) Acrolein	2.219	56	21665	25.86	ppb	87
13) 1,1-Dicethene	2.304	96	14844	5.10	ppb	93
14) Freon 113	2.311	101	13449	4.89	ppb	93
15) Acetone	2.347	43	9058	5.26	ppb	96
16) 2-Propanol	2.475	45	32422	97.79	ppb	96
17) Iodomethane	2.445	142	2790	1.06	ppb	89
18) Carbon Disulfide	2.499	76	42597	5.02	ppb	99
19) Acetonitrile	2.597	40	8323m	28.53	ppb	
20) Allyl Chloride	2.634	76	8487	5.47	ppb	89
21) Methyl Acetate	2.658	43	15122	4.90	ppb	95
22) Methylene Chloride	2.749	84	15458	5.03	ppb	# 82
23) TBA	2.877	59	60237	105.40	ppb	100
24) Acrylonitrile	2.999	53	43295	26.10	ppb	96
25) Methyl-t-Butyl Ether	3.054	73	52999	5.08	ppb	98
26) trans-1,2-Dichloroethene	3.042	96	15100	4.98	ppb	98
28) 1,1-Dicethane	3.536	63	26838	4.92	ppb	96
29) Vinyl Acetate	3.627	86	4036	4.51	ppb	# 93
30) DIPE	3.658	45	52453	5.05	ppb	88
31) 2-Chloro-1,3-Butadiene	3.664	53	26425	5.01	ppb	83
32) ETBE	4.188	59	53172	5.07	ppb	98
33) 2,2-Dichloropropane	4.359	77	23967	4.94	ppb	98
34) cis-1,2-Dichloroethene	4.371	96	18079	5.03	ppb	98
35) 2-Butanone	4.420	43	11921	5.49	ppb	90
36) Propionitrile	4.493	54	18077	25.64	ppb	86
37) Bromochloromethane	4.767	130	9891m	5.02	ppb	
38) Methacrylonitrile	4.767	67	8723	4.78	ppb	# 80
39) Tetrahydrofuran	4.859	42	6134	4.84	ppb	98
40) Chloroform	4.950	83	29677	5.01	ppb	93
41) 1,1,1-Trichloroethane	5.243	97	23417	5.04	ppb	100

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:30:54 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	52164	5.10	ppb	97
44) Cyclohexane	5.322	41	14483	4.79	ppb	92
46) Carbontetrachloride	5.523	117	18447	5.29	ppb	90
47) 1,1-Dichloropropene	5.529	75	21281	5.20	ppb	94
49) Benzene	5.846	78	61250	5.04	ppb	98
50) 1,2-Dichloroethane	5.883	62	22893	5.13	ppb	97
51) Iso-Butyl Alcohol	5.859	43	23860	96.86	ppb	91
52) n-Heptane	6.340	43	22156	5.27	ppb	96
53) 1-Butanol	6.822	56	40479	248.41	ppb	90
54) Trichloroethene	6.797	130	15019	4.82	ppb	# 88
55) Methylcyclohexane	7.035	55	21785	5.38	ppb	92
56) 1,2-Diclpropane	7.078	63	15535	4.80	ppb	100
57) Dibromomethane	7.218	93	9298	4.81	ppb	91
58) 1,4-Dioxane	7.273	88	6912m	108.11	ppb	
59) Methyl Methacrylate	7.303	69	14282	4.79	ppb	95
60) Bromodichloromethane	7.444	83	20116	4.90	ppb	96
61) 2-Nitropropane	7.730	41	12041	9.64	ppb	94
62) 2-Chloroethylvinyl Ether	7.858	63	3483	4.74	ppb	91
63) cis-1,3-Dichloropropene	7.992	75	26383	5.13	ppb	93
64) 4-Methyl-2-pentanone	8.200	43	20060	5.08	ppb	98
66) Toluene	8.364	91	68544	5.20	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	23633	4.93	ppb	94
68) Ethyl Methacrylate	8.773	69	25902	5.36	ppb	96
69) 1,1,2-Trichloroethane	8.821	97	13951	4.66	ppb	91
72) Tetrachloroethene	8.956	164	11519	5.15	ppb	85
73) 2-Hexanone	9.114	43	15141	5.07	ppb	97
74) 1,3-Dichloropropane	8.992	76	27611	5.30	ppb	97
75) Dibromochloromethane	9.218	129	14239	5.24	ppb	99
76) N-Butyl Acetate	9.266	43	31060	5.53	ppb	97
77) 1,2-Dibromoethane	9.315	107	14526	5.03	ppb	91
78) Chlorobenzene	9.809	112	42337	5.33	ppb	95
79) 3-CBTF	9.827	180	22269	5.26	ppb	# 89
80) 4-CBTF	9.882	180	20165	5.21	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.894	131	14163	5.02	ppb	95
82) Ethylbenzene	9.931	106	22757	5.19	ppb	99
83) (m+p)Xylene	10.041	106	56709	10.68	ppb	96
84) o-Xylene	10.400	106	27065	5.09	ppb	98
85) Styrene	10.413	104	45533	5.09	ppb	97
87) Bromoform	10.565	173	8444	4.77	ppb	96
88) 2-CBTF	10.644	180	21787	5.42	ppb	94
89) Isopropylbenzene	10.736	105	73755	5.53	ppb	95
90) Cyclohexanone	10.797	55	108884	107.30	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	5580	5.28	ppb	82
92) 1,1,2,2-Tetrachloroethane	10.992	83	19803	4.92	ppb	84
93) Bromobenzene	10.986	156	17774	5.44	ppb	# 90
94) 1,2,3-Trichloropropane	11.022	110	6876	5.26	ppb	97
95) n-Propylbenzene	11.095	91	84531	5.45	ppb	99
96) 2-Chlorotoluene	11.156	91	51609	5.37	ppb	95
97) 3-Chlorotoluene	11.211	91	53980	5.32	ppb	94
98) 4-Chlorotoluene	11.248	91	58405	5.26	ppb	95
99) 1,3,5-Trimethylbenzene	11.248	105	57897	5.19	ppb	92
100) tert-Butylbenzene	11.516	119	51279	5.32	ppb	97
101) 1,2,4-Trimethylbenzene	11.559	105	57468	5.14	ppb	98
102) 3,4-DCBTF	11.620	214	15851	4.93	ppb	96
103) sec-Butylbenzene	11.699	105	74838	5.28	ppb	100
104) p-Isopropyltoluene	11.821	119	62091	5.21	ppb	97



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15153.D  
 Acq On : 29 Dec 2017 6:28 pm  
 Operator : K.Ruest  
 Sample : 5.0ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 02 11:30:54 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	32275	5.20	ppb	97
106) 1,4-Dclbenz	11.857	146	34253	5.26	ppb	94
107) 2,4-DCBTF	11.912	214	15481	5.20	ppb	95
108) 2,5-DCBTF	11.949	214	15937	5.01	ppb	93
109) n-Butylbenzene	12.156	91	55352	4.98	ppb	98
110) 1,2-Dclbenz	12.156	146	33230	5.36	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.784	157	5017	4.95	ppb	88
112) Trielution Dichlorotol...	12.900	125	92375	15.15	ppb	98
113) 1,3,5 Trichlorobenzene	12.955	180	24138	5.00	ppb	92
114) Coelution Dichlorotoluene	13.229	125	66434	10.27	ppb	97
115) 1,2,4-Tcbenzene	13.436	180	22876	5.08	ppb	98
116) Hexachlorobt	13.577	225	10295	4.92	ppb	94
117) Naphthalen	13.625	128	62322	5.01	ppb	97
118) 1,2,3-Tclbenzene	13.814	180	20632	4.71	ppb	96
119) 2,4,5-Trichlorotolene	14.400	159	10252	3.86	ppb	91
120) 2,3,6-Trichlorotoluene	14.491	159	10012	4.15	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15154.D  
 Acq On : 29 Dec 2017 6:49 pm  
 Operator : K.Ruest  
 Sample : 20ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	291966	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	486988	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	432595	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.833	152	217884	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	52724	18.23	ppb	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	36.46%#	
48) surr1,1,2-dichloroetha...	5.767	65	72765	18.36	ppb	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	36.72%#	
65) SURR3,Toluene-d8	8.291	98	239896	18.58	ppb	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	37.16%#	
70) SURR2,BFB	10.858	95	88358	17.69	ppb	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	35.38%#	
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	73723	20.50	ppb		97
3) Chloromethane	1.305	50	84655	19.07	ppb		97
4) Vinyl Chloride	1.384	62	87767	20.30	ppb		99
5) Bromomethane	1.616	94	65257	19.87	ppb		95
6) Chloroethane	1.689	64	52850	19.58	ppb		96
7) Freon 21	1.835	67	115862	20.59	ppb		99
8) Trichlorofluoromethane	1.884	101	82363	19.77	ppb		98
9) Diethyl Ether	2.116	59	56515	19.54	ppb		98
10) Freon 123a	2.122	67	67133	19.21	ppb		98
11) Freon 123	2.170	83	80114	19.63	ppb		95
12) Acrolein	2.213	56	91390	105.88	ppb		99
13) 1,1-Dicethene	2.305	96	53573	17.86	ppb		97
14) Freon 113	2.311	101	53019	18.71	ppb		94
15) Acetone	2.347	43	36137	20.38	ppb		98
16) 2-Propanol	2.475	45	134988	395.20	ppb		97
17) Iodomethane	2.439	142	48129	17.81	ppb		99
18) Carbon Disulfide	2.500	76	180345	20.62	ppb		98
19) Acetonitrile	2.591	40	28858	96.02	ppb		95
20) Allyl Chloride	2.634	76	31637	19.81	ppb		95
21) Methyl Acetate	2.652	43	66029	20.77	ppb		99
22) Methylene Chloride	2.750	84	60822	19.23	ppb		91
23) TBA	2.872	59	230923	392.21	ppb		99
24) Acrylonitrile	3.000	53	170824	99.96	ppb		99
25) Methyl-t-Butyl Ether	3.048	73	214622	19.96	ppb		99
26) trans-1,2-Dichloroethene	3.042	96	58955	18.86	ppb		97
28) 1,1-Dicethane	3.536	63	109240	19.43	ppb		99
29) Vinyl Acetate	3.621	86	19750	21.42	ppb	#	84
30) DIPE	3.658	45	210759	19.69	ppb		96
31) 2-Chloro-1,3-Butadiene	3.658	53	108371	19.93	ppb		94
32) ETBE	4.182	59	218829	20.27	ppb		96
33) 2,2-Dichloropropane	4.365	77	96726	19.35	ppb		96
34) cis-1,2-Dichloroethene	4.371	96	67570	18.26	ppb		96
35) 2-Butanone	4.408	43	45812	20.46	ppb		97
36) Propionitrile	4.487	54	67409	92.82	ppb		95
37) Bromochloromethane	4.767	130	39264	19.33	ppb		92
38) Methacrylonitrile	4.767	67	35031	18.62	ppb		98
39) Tetrahydrofuran	4.853	42	26454	20.27	ppb		94
40) Chloroform	4.938	83	103219	16.93	ppb		97
41) 1,1,1-Trichloroethane	5.243	97	88142	18.40	ppb		97

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15154.D  
 Acq On : 29 Dec 2017 6:49 pm  
 Operator : K.Ruest  
 Sample : 20ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:51 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	213627	20.27	ppb	98
44) Cyclohexane	5.328	41	59944	18.91	ppb	96
46) Carbontetrachloride	5.523	117	71449	19.55	ppb	93
47) 1,1-Dichloropropene	5.530	75	82271	19.18	ppb	98
49) Benzene	5.847	78	247133	19.43	ppb	98
50) 1,2-Dichloroethane	5.883	62	90128	19.29	ppb	95
51) Iso-Butyl Alcohol	5.853	43	97223	376.70	ppb	98
52) n-Heptane	6.334	43	83119	18.88	ppb	96
53) 1-Butanol	6.816	56	168954	989.61	ppb	99
54) Trichloroethene	6.798	130	61608	18.88	ppb	96
55) Methylcyclohexane	7.035	55	82601	19.46	ppb	98
56) 1,2-Diclpropane	7.078	63	65021	19.16	ppb	95
57) Dibromomethane	7.218	93	39938	19.71	ppb	97
58) 1,4-Dioxane	7.279	88	25673	383.26	ppb	97
59) Methyl Methacrylate	7.304	69	59811	19.16	ppb	96
60) Bromodichloromethane	7.450	83	79062	18.36	ppb	97
61) 2-Nitropropane	7.724	41	50922	38.91	ppb	94
62) 2-Chloroethylvinyl Ether	7.858	63	13441	17.45	ppb	94
63) cis-1,3-Dichloropropene	7.992	75	109564	20.33	ppb	98
64) 4-Methyl-2-pentanone	8.194	43	83525	20.18	ppb	99
66) Toluene	8.364	91	267628	19.37	ppb	97
67) trans-1,3-Dichloropropene	8.633	75	100595	20.04	ppb	99
68) Ethyl Methacrylate	8.773	69	106139	20.96	ppb	97
69) 1,1,2-Trichloroethane	8.822	97	58878	18.76	ppb	98
72) Tetrachloroethene	8.956	164	42833	17.94	ppb	95
73) 2-Hexanone	9.108	43	63596	19.97	ppb	88
74) 1,3-Dichloropropane	8.986	76	109832	19.76	ppb	99
75) Dibromochloromethane	9.218	129	56561	19.50	ppb	99
76) N-Butyl Acetate	9.267	43	128752	21.48	ppb	97
77) 1,2-Dibromoethane	9.315	107	63198	20.51	ppb	97
78) Chlorobenzene	9.809	112	167284	19.74	ppb	98
79) 3-CBTF	9.827	180	88226	19.52	ppb	99
80) 4-CBTF	9.882	180	80584	19.51	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.895	131	56794	18.85	ppb	99
82) Ethylbenzene	9.931	106	87997	18.81	ppb	96
83) (m+p)Xylene	10.041	106	219646	38.78	ppb	100
84) o-Xylene	10.401	106	108435	19.12	ppb	94
85) Styrene	10.413	104	187928	19.69	ppb	97
87) Bromoform	10.565	173	38186	20.09	ppb	96
88) 2-CBTF	10.644	180	86163	19.97	ppb	98
89) Isopropylbenzene	10.736	105	282882	19.76	ppb	99
90) Cyclohexanone	10.797	55	429744	394.62	ppb	99
91) trans-1,4-Dichloro-2-B...	11.047	53	22558	19.88	ppb	95
92) 1,1,2,2-Tetrachloroethane	10.992	83	83898	19.42	ppb	98
93) Bromobenzene	10.980	156	67536	19.26	ppb	96
94) 1,2,3-Trichloropropane	11.022	110	29041	20.69	ppb	100
95) n-Propylbenzene	11.095	91	333066	20.01	ppb	100
96) 2-Chlorotoluene	11.156	91	200054	19.39	ppb	100
97) 3-Chlorotoluene	11.205	91	224096	20.59	ppb	92
98) 4-Chlorotoluene	11.248	91	230591	19.34	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	232544	19.42	ppb	97
100) tert-Butylbenzene	11.516	119	200065	19.36	ppb	98
101) 1,2,4-Trimethylbenzene	11.559	105	233419	19.47	ppb	98
102) 3,4-DCBTF	11.620	214	68300	19.80	ppb	99
103) sec-Butylbenzene	11.699	105	294650	19.37	ppb	99
104) p-Isopropyltoluene	11.821	119	240243	18.77	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15154.D  
 Acq On : 29 Dec 2017 6:49 pm  
 Operator : K.Ruest  
 Sample : 20ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 02 10:04:51 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	128325	19.26	ppb	99
106) 1,4-Dclbenz	11.858	146	132721	18.98	ppb	98
107) 2,4-DCBTF	11.906	214	63318	19.82	ppb	98
108) 2,5-DCBTF	11.949	214	68912	20.18	ppb	96
109) n-Butylbenzene	12.156	91	223403	18.71	ppb	97
110) 1,2-Dclbenz	12.156	146	132338	19.90	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.778	157	20568	18.89	ppb	88
112) Trielution Dichlorotol...	12.900	125	390759	59.72	ppb	99
113) 1,3,5 Trichlorobenzene	12.955	180	103199	19.93	ppb	99
114) Coelution Dichlorotoluene	13.229	125	280855	40.47	ppb	99
115) 1,2,4-Tcbenzene	13.437	180	92621	19.16	ppb	97
116) Hexachlorobt	13.577	225	40099	17.87	ppb	97
117) Naphthalen	13.626	128	274709	20.59	ppb	98
118) 1,2,3-Tclbenzene	13.814	180	90401	19.25	ppb	95
119) 2,4,5-Trichlorotolene	14.400	159	55914	19.64	ppb	96
120) 2,3,6-Trichlorotoluene	14.485	159	52554	20.31	ppb	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15155.D  
 Acq On : 29 Dec 2017 7:11 pm  
 Operator : K.Ruest  
 Sample : 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	285166	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	470666	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	417045	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	212180	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.225	113	139572	49.94	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.88%		
48) surr1,1,2-dichloroetha...	5.767	65	193216	50.45	ppb	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	100.90%		
65) SURR3,Toluene-d8	8.291	98	626059	50.17	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.34%		
70) SURR2,BFB	10.858	95	238144	49.33	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.66%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	185458	52.80	ppb	100
3) Chloromethane	1.305	50	209194	48.25	ppb	100
4) Vinyl Chloride	1.384	62	213326	50.51	ppb	100
5) Bromomethane	1.610	94	132984	41.46	ppb	100
6) Chloroethane	1.689	64	132064	50.08	ppb	100
7) Freon 21	1.835	67	274910	50.02	ppb	100
8) Trichlorofluoromethane	1.884	101	202491	49.75	ppb	100
9) Diethyl Ether	2.116	59	133898	47.40	ppb	100
10) Freon 123a	2.116	67	169452	49.64	ppb	100
11) Freon 123	2.170	83	197460	49.54	ppb	100
12) Acrolein	2.213	56	205270	243.48	ppb	100
13) 1,1-Diclcethene	2.305	96	133942	45.73	ppb	100
14) Freon 113	2.311	101	133342	48.17	ppb	100
15) Acetone	2.347	43	87260	50.38	ppb	100
16) 2-Propanol	2.475	45	309128	926.59	ppb	100
17) Iodomethane	2.433	142	183051	69.36	ppb	100
18) Carbon Disulfide	2.500	76	431946	50.56	ppb	100
19) Acetonitrile	2.591	40	68723	234.11	ppb	100
20) Allyl Chloride	2.634	76	74459	47.73	ppb	100
21) Methyl Acetate	2.652	43	147727	47.57	ppb	100
22) Methylene Chloride	2.750	84	149710	48.46	ppb	100
23) TBA	2.871	59	538425	936.28	ppb	100
24) Acrylonitrile	3.000	53	395382	236.88	ppb	100
25) Methyl-t-Butyl Ether	3.048	73	511794	48.74	ppb	100
26) trans-1,2-Dichloroethene	3.042	96	146262	47.90	ppb	100
28) 1,1-Diclcethane	3.536	63	269876	49.15	ppb	100
29) Vinyl Acetate	3.627	86	42409	47.10	ppb	100
30) DIPE	3.658	45	509501	48.73	ppb	100
31) 2-Chloro-1,3-Butadiene	3.658	53	254374	47.89	ppb	100
32) ETBE	4.188	59	532219	50.48	ppb	100
33) 2,2-Dichloropropane	4.359	77	233299	47.78	ppb	100
34) cis-1,2-Dichloroethene	4.371	96	164684	45.56	ppb	100
35) 2-Butanone	4.414	43	106486	48.70	ppb	100
36) Propionitrile	4.493	54	163133	229.97	ppb	100
37) Bromochloromethane	4.761	130	92520	46.64	ppb	100
38) Methacrylonitrile	4.761	67	82633	44.98	ppb	100
39) Tetrahydrofuran	4.853	42	62628	49.14	ppb	100
40) Chloroform	4.944	83	253260	42.52	ppb	100
41) 1,1,1-Trichloroethane	5.243	97	216329	46.24	ppb	100



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15155.D  
 Acq On : 29 Dec 2017 7:11 pm  
 Operator : K.Ruest  
 Sample : 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:54 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	512669	49.81	ppb	100
44) Cyclohexane	5.328	41	146746	47.90	ppb	100
46) Carbontetrachloride	5.517	117	177487	50.24	ppb	100
47) 1,1-Dichloropropene	5.529	75	204387	49.30	ppb	100
49) Benzene	5.847	78	603170	49.06	ppb	100
50) 1,2-Dichloroethane	5.883	62	221777	49.10	ppb	100
51) Iso-Butyl Alcohol	5.853	43	235620	944.60	ppb	100
52) n-Heptane	6.340	43	207731	48.81	ppb	100
53) 1-Butanol	6.822	56	408921	2478.23	ppb	100
54) Trichloroethene	6.798	130	157782	50.04	ppb	100
55) Methylcyclohexane	7.035	55	209380	51.03	ppb	100
56) 1,2-Diclpropane	7.078	63	159102	48.51	ppb	100
57) Dibromomethane	7.218	93	95701	48.87	ppb	100
58) 1,4-Dioxane	7.279	88	60464	933.95	ppb	100
59) Methyl Methacrylate	7.304	69	145402	48.19	ppb	100
60) Bromodichloromethane	7.444	83	192925	46.36	ppb	100
61) 2-Nitropropane	7.724	41	123250	97.43	ppb	100
62) 2-Chloroethylvinyl Ether	7.858	63	36696	49.29	ppb	100
63) cis-1,3-Dichloropropene	7.992	75	265008	50.88	ppb	100
64) 4-Methyl-2-pentanone	8.194	43	197235	49.30	ppb	100
66) Toluene	8.364	91	660262	49.44	ppb	100
67) trans-1,3-Dichloropropene	8.633	75	246121	50.72	ppb	100
68) Ethyl Methacrylate	8.773	69	250836	51.26	ppb	100
69) 1,1,2-Trichloroethane	8.822	97	140459	46.30	ppb	100
72) Tetrachloroethene	8.956	164	110238	47.90	ppb	100
73) 2-Hexanone	9.108	43	151603	49.37	ppb	100
74) 1,3-Dichloropropane	8.986	76	264897	49.43	ppb	100
75) Dibromochloromethane	9.218	129	141283	50.51	ppb	100
76) N-Butyl Acetate	9.267	43	304141	52.63	ppb	100
77) 1,2-Dibromoethane	9.315	107	147371	49.60	ppb	100
78) Chlorobenzene	9.809	112	409247	50.09	ppb	100
79) 3-CBTF	9.827	180	209587	48.11	ppb	100
80) 4-CBTF	9.882	180	188719	47.40	ppb	100
81) 1,1,1,2-Tetrachloroethane	9.895	131	142685	49.13	ppb	100
82) Ethylbenzene	9.931	106	221739	49.16	ppb	100
83) (m+p)Xylene	10.041	106	544255	99.68	ppb	100
84) o-Xylene	10.400	106	273570	50.04	ppb	100
85) Styrene	10.413	104	473047	51.40	ppb	100
87) Bromoform	10.565	173	91728	49.56	ppb	100
88) 2-CBTF	10.644	180	204437	48.67	ppb	100
89) Isopropylbenzene	10.736	105	703200	50.44	ppb	100
90) Cyclohexanone	10.797	55	1032485	973.58	ppb	100
91) trans-1,4-Dichloro-2-B...	11.047	53	54132	48.99	ppb	100
92) 1,1,2,2-Tetrachloroethane	10.998	83	202168	48.05	ppb	100
93) Bromobenzene	10.980	156	167317	49.01	ppb	100
94) 1,2,3-Trichloropropane	11.022	110	67110	49.10	ppb	100
95) n-Propylbenzene	11.095	91	837261	51.65	ppb	100
96) 2-Chlorotoluene	11.156	91	496293	49.38	ppb	100
97) 3-Chlorotoluene	11.211	91	535859	50.55	ppb	100
98) 4-Chlorotoluene	11.248	91	583666	50.27	ppb	100
99) 1,3,5-Trimethylbenzene	11.248	105	592259	50.79	ppb	100
100) tert-Butylbenzene	11.516	119	510291	50.70	ppb	100
101) 1,2,4-Trimethylbenzene	11.559	105	598582	51.26	ppb	100
102) 3,4-DCBTF	11.620	214	168206	50.08	ppb	100
103) sec-Butylbenzene	11.699	105	758675	51.23	ppb	100
104) p-Isopropyltoluene	11.821	119	636264	51.05	ppb	100



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15155.D  
 Acq On : 29 Dec 2017 7:11 pm  
 Operator : K.Ruest  
 Sample : 50ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 02 10:04:54 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	327576	50.47	ppb	100
106) 1,4-Dclbenz	11.858	146	330531	48.53	ppb	100
107) 2,4-DCBTF	11.912	214	155261	49.89	ppb	100
108) 2,5-DCBTF	11.949	214	166686	50.13	ppb	100
109) n-Butylbenzene	12.156	91	606320	52.15	ppb	100
110) 1,2-Dclbenz	12.156	146	326328	50.38	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.784	157	49528	46.72	ppb	100
112) Trielution Dichlorotol...	12.900	125	979295	153.70	ppb	100
113) 1,3,5 Trichlorobenzene	12.955	180	258128	51.19	ppb	100
114) Coelution Dichlorotoluene	13.229	125	718040	106.26	ppb	100
115) 1,2,4-Tcbenzene	13.437	180	247574	52.58	ppb	100
116) Hexachlorobt	13.577	225	107495	49.18	ppb	100
117) Naphthalen	13.625	128	706889	54.41	ppb	100
118) 1,2,3-Tclbenzene	13.814	180	240331	52.55	ppb	100
119) 2,4,5-Trichlorotolene	14.400	159	168073	60.62	ppb	100
120) 2,3,6-Trichlorotoluene	14.485	159	154183	61.18	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.377	168	291479	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.468	114	485941	50.00	ppb	0.00
71) d5-Chlorobenzene	9.785	117	437945	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	11.839	152	232083	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4,Dibrflmethane	5.231	113	291015	100.86	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	201.72%#
48) surr1,1,2-dichloroetha...	5.767	65	393053	99.41	ppb	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	198.82%#
65) SURR3,Toluene-d8	8.291	98	1270821	98.64	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	197.28%#
70) SURR2,BFB	10.858	95	503121	100.94	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	201.88%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.183	85	406406	113.20	ppb	97
3) Chloromethane	1.305	50	457343	103.19	ppb	100
4) Vinyl Chloride	1.384	62	471329	109.18	ppb	98
5) Bromomethane	1.603	94	267383	81.55	ppb	98
6) Chloroethane	1.683	64	281603	104.48	ppb	98
7) Freon 21	1.835	67	570720	101.59	ppb	100
8) Trichlorofluoromethane	1.878	101	450983	108.41	ppb	99
9) Diethyl Ether	2.115	59	296654	102.75	ppb	97
10) Freon 123a	2.115	67	352884	101.14	ppb	98
11) Freon 123	2.170	83	416503	102.22	ppb	98
12) Acrolein	2.213	56	420814	488.34	ppb	99
13) 1,1-Diclcethene	2.304	96	295926	98.84	ppb	96
14) Freon 113	2.310	101	295983	104.62	ppb	99
15) Acetone	2.347	43	173977	98.27	ppb	98
16) 2-Propanol	2.481	45	687919	2017.34	ppb	99
17) Iodomethane	2.432	142	397156	147.24	ppb	96
18) Carbon Disulfide	2.493	76	869002	99.52	ppb	99
19) Acetonitrile	2.591	40	152773	509.17	ppb	99
20) Allyl Chloride	2.634	76	159380	99.95	ppb	98
21) Methyl Acetate	2.652	43	314450	99.07	ppb	99
22) Methylene Chloride	2.749	84	327410	103.68	ppb	98
23) TBA	2.877	59	1208755	2056.41	ppb	99
24) Acrylonitrile	2.999	53	871837	511.02	ppb	98
25) Methyl-t-Butyl Ether	3.048	73	1106707	103.11	ppb	100
26) trans-1,2-Dichloroethene	3.042	96	321201	102.90	ppb	96
28) 1,1-Diclcethane	3.536	63	596191	106.24	ppb	99
29) Vinyl Acetate	3.621	86	91108	99.00	ppb	# 88
30) DIPE	3.658	45	1041698	97.47	ppb	98
31) 2-Chloro-1,3-Butadiene	3.658	53	512752	94.45	ppb	95
32) ETBE	4.188	59	1081591	100.36	ppb	98
33) 2,2-Dichloropropane	4.365	77	515652	103.33	ppb	98
34) cis-1,2-Dichloroethene	4.371	96	362470	98.11	ppb	99
35) 2-Butanone	4.408	43	216443	96.85	ppb	96
36) Propionitrile	4.493	54	359375	495.65	ppb	98
37) Bromochloromethane	4.761	130	207820	102.50	ppb	97
38) Methacrylonitrile	4.761	67	181165	96.47	ppb	98
39) Tetrahydrofuran	4.853	42	140292	107.69	ppb	92
40) Chloroform	4.944	83	552967	90.83	ppb	99
41) 1,1,1-Trichloroethane	5.237	97	489285	102.31	ppb	98

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	1052920	100.08	ppb	99
44) Cyclohexane	5.328	41	308776	97.62	ppb	97
46) Carbontetrachloride	5.517	117	401975	110.20	ppb	97
47) 1,1-Dichloropropene	5.529	75	450211	105.18	ppb	93
49) Benzene	5.846	78	1326681	104.52	ppb	99
50) 1,2-Dichloroethane	5.883	62	481513	103.26	ppb	98
51) Iso-Butyl Alcohol	5.859	43	537047	2085.33	ppb	98
52) n-Heptane	6.334	43	458826	104.42	ppb	97
53) 1-Butanol	6.828	56	896835	5264.34	ppb	99
54) Trichloroethene	6.797	130	342516	105.22	ppb	97
55) Methylcyclohexane	7.035	55	436058	102.94	ppb	95
56) 1,2-Diclpropane	7.078	63	349111	103.09	ppb	100
57) Dibromomethane	7.218	93	210104	103.93	ppb	99
58) 1,4-Dioxane	7.279	88	141678	2119.63	ppb	97
59) Methyl Methacrylate	7.303	69	317131	101.80	ppb	96
60) Bromodichloromethane	7.444	83	432910	100.77	ppb	96
61) 2-Nitropropane	7.730	41	273028	209.06	ppb	97
62) 2-Chloroethylvinyl Ether	7.852	63	89516	116.45	ppb	97
63) cis-1,3-Dichloropropene	7.992	75	584323	108.65	ppb	97
64) 4-Methyl-2-pentanone	8.193	43	408070	98.80	ppb	100
66) Toluene	8.364	91	1433672	103.98	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	545723	108.92	ppb	100
68) Ethyl Methacrylate	8.773	69	557135	110.26	ppb	100
69) 1,1,2-Trichloroethane	8.821	97	312299	99.70	ppb	98
72) Tetrachloroethene	8.956	164	246661	102.06	ppb	99
73) 2-Hexanone	9.108	43	318266	98.71	ppb	98
74) 1,3-Dichloropropane	8.992	76	577284	102.58	ppb	97
75) Dibromochloromethane	9.218	129	318785	108.54	ppb	99
76) N-Butyl Acetate	9.266	43	649156	106.97	ppb	98
77) 1,2-Dibromoethane	9.315	107	323633	103.73	ppb	96
78) Chlorobenzene	9.809	112	904858	105.46	ppb	99
79) 3-CBTF	9.827	180	437770	95.69	ppb	96
80) 4-CBTF	9.882	180	397310	95.03	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.894	131	315863	103.56	ppb	99
82) Ethylbenzene	9.931	106	493080	104.09	ppb	96
83) (m+p)Xylene	10.047	106	1229191	214.38	ppb	91
84) o-Xylene	10.400	106	604232	105.25	ppb	100
85) Styrene	10.413	104	1053244	108.99	ppb	99
87) Bromoform	10.565	173	216146	106.77	ppb	98
88) 2-CBTF	10.644	180	430768	93.75	ppb	95
89) Isopropylbenzene	10.736	105	1573603	103.20	ppb	100
90) Cyclohexanone	10.797	55	2355466	2030.61	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	127881	105.82	ppb	97
92) 1,1,2,2-Tetrachloroethane	10.998	83	463179	100.65	ppb	100
93) Bromobenzene	10.986	156	379408	101.60	ppb	# 85
94) 1,2,3-Trichloropropane	11.022	110	150724	100.82	ppb	96
95) n-Propylbenzene	11.095	91	1857463	104.76	ppb	99
96) 2-Chlorotoluene	11.156	91	1134081	103.17	ppb	99
97) 3-Chlorotoluene	11.211	91	1133645	97.76	ppb	98
98) 4-Chlorotoluene	11.248	91	1309812	103.13	ppb	98
99) 1,3,5-Trimethylbenzene	11.248	105	1335384	104.71	ppb	97
100) tert-Butylbenzene	11.522	119	1156415	105.05	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	1356626	106.21	ppb	99
102) 3,4-DCBTF	11.620	214	364062	99.10	ppb	99
103) sec-Butylbenzene	11.699	105	1721017	106.24	ppb	100
104) p-Isopropyltoluene	11.827	119	1462620	107.29	ppb	98

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 8 Sample Multiplier: 1

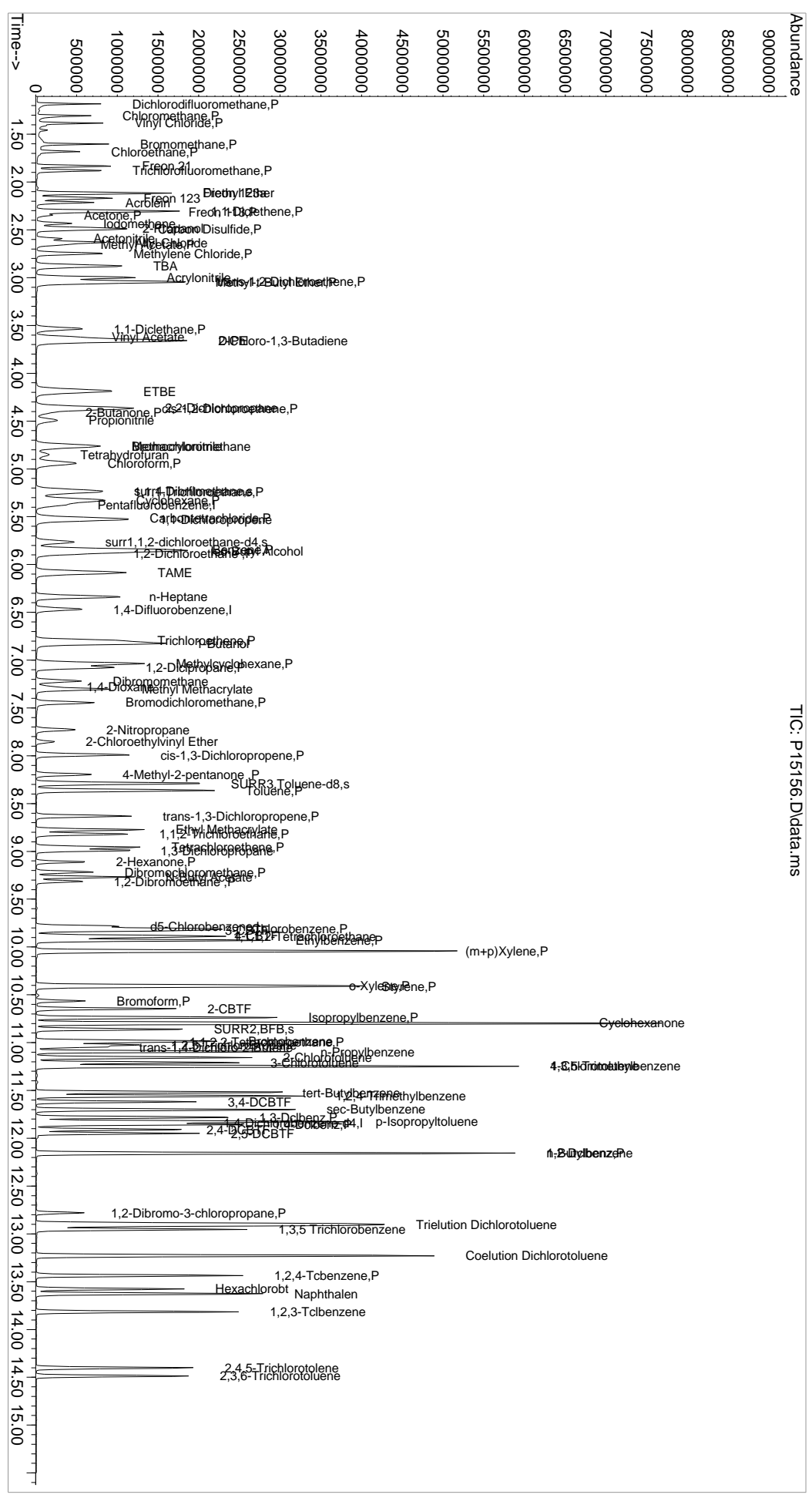
Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	745361	105.00	ppb	99
106) 1,4-Dclbenz	11.857	146	759898	102.00	ppb	100
107) 2,4-DCBTF	11.912	214	342135	100.52	ppb	98
108) 2,5-DCBTF	11.949	214	375116	103.14	ppb	96
109) n-Butylbenzene	12.156	91	1412911	111.11	ppb	99
110) 1,2-Dclbenz	12.156	146	757996	106.99	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.784	157	121453	104.74	ppb	97
112) Trielution Dichlorotol...	12.900	125	2132804	306.04	ppb	99
113) 1,3,5 Trichlorobenzene	12.955	180	566591	102.72	ppb	99
114) Coelution Dichlorotoluene	13.229	125	1564602	211.68	ppb	98
115) 1,2,4-Tcbenzene	13.436	180	573904	111.44	ppb	97
116) Hexachlorobt	13.577	225	253403	106.00	ppb	97
117) Naphthalen	13.625	128	1624030	114.29	ppb	100
118) 1,2,3-Tclbenzene	13.814	180	562316	112.41	ppb	98
119) 2,4,5-Trichlorotolene	14.400	159	389200	128.33	ppb	96
120) 2,3,6-Trichlorotoluene	14.485	159	350481	127.14	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15156.D  
 Acq On : 29 Dec 2017 7:32 pm  
 Operator : K.Ruest  
 Sample : 100ppb  
 Conc : 8260 WATER ICAL  
 VIAL : 8 Sample Multiplier: 1  
 Inst : MSVOA-12

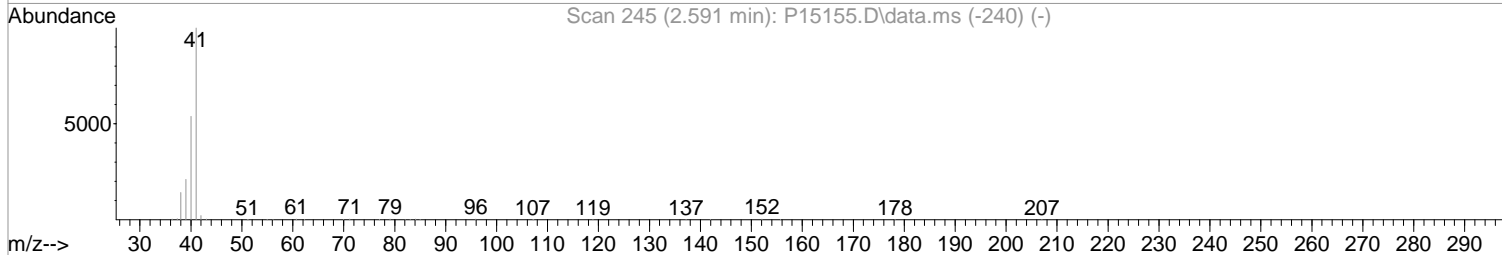
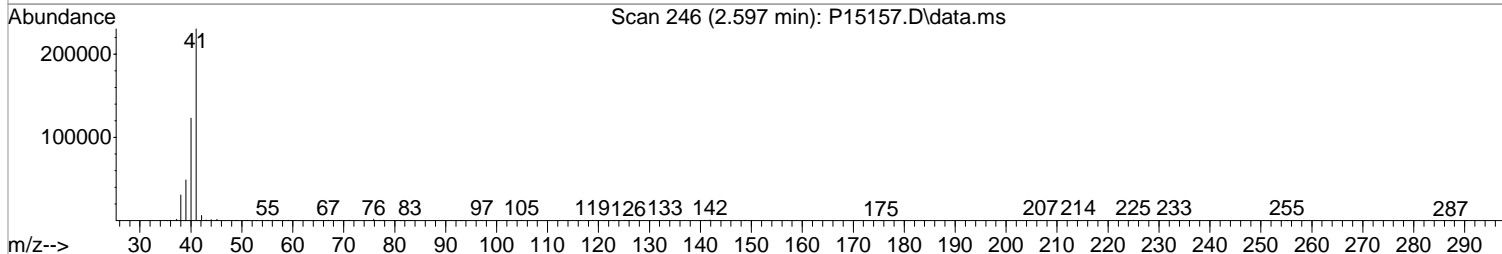
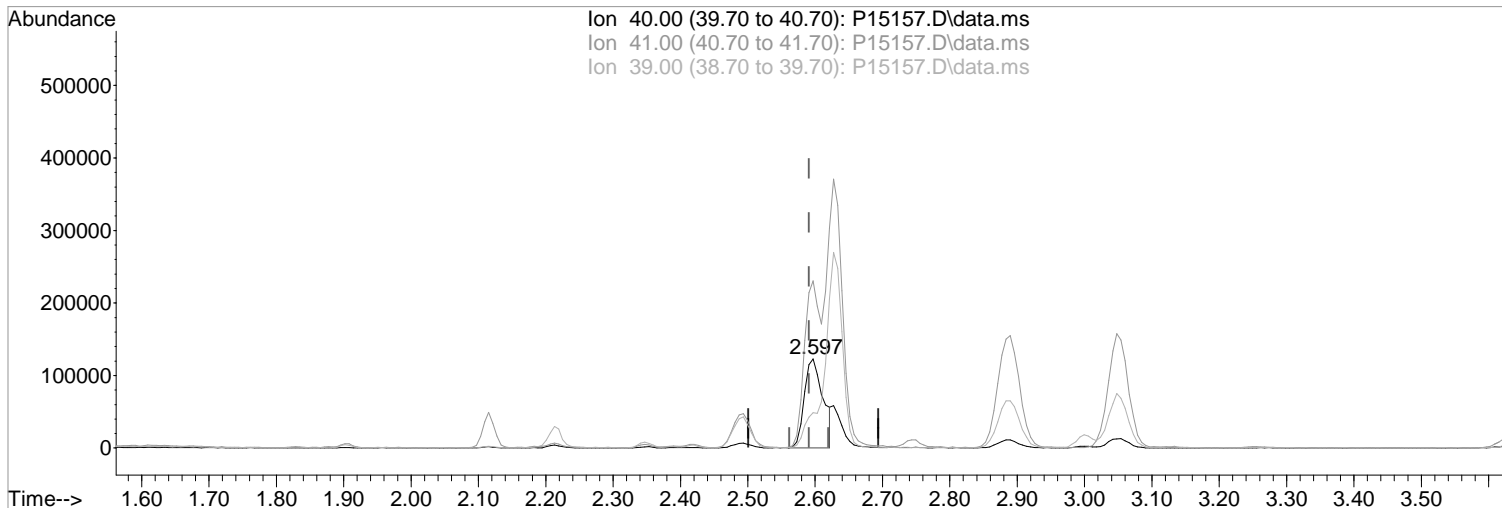
Quant Time: Jan 02 10:04:57 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:00 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



(19) Acetonitrile  
 2.597min (+0.006) 790.36 ppb m  
 response 238029

Manual Integration:

After

Poor integration.

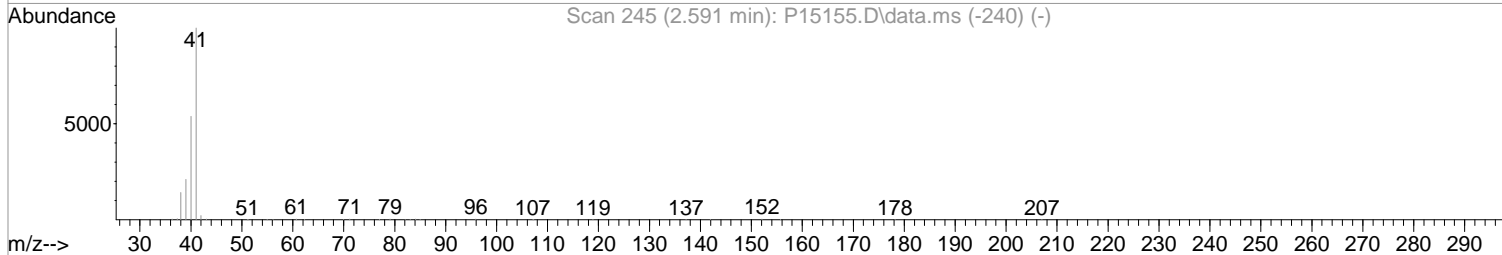
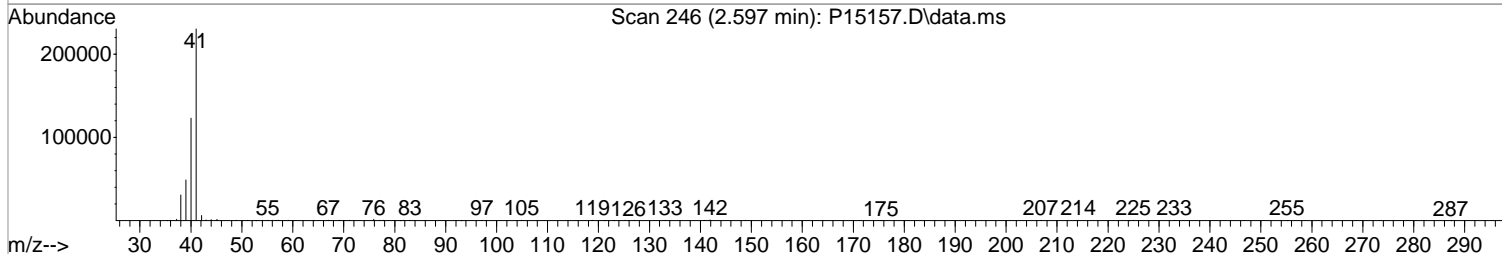
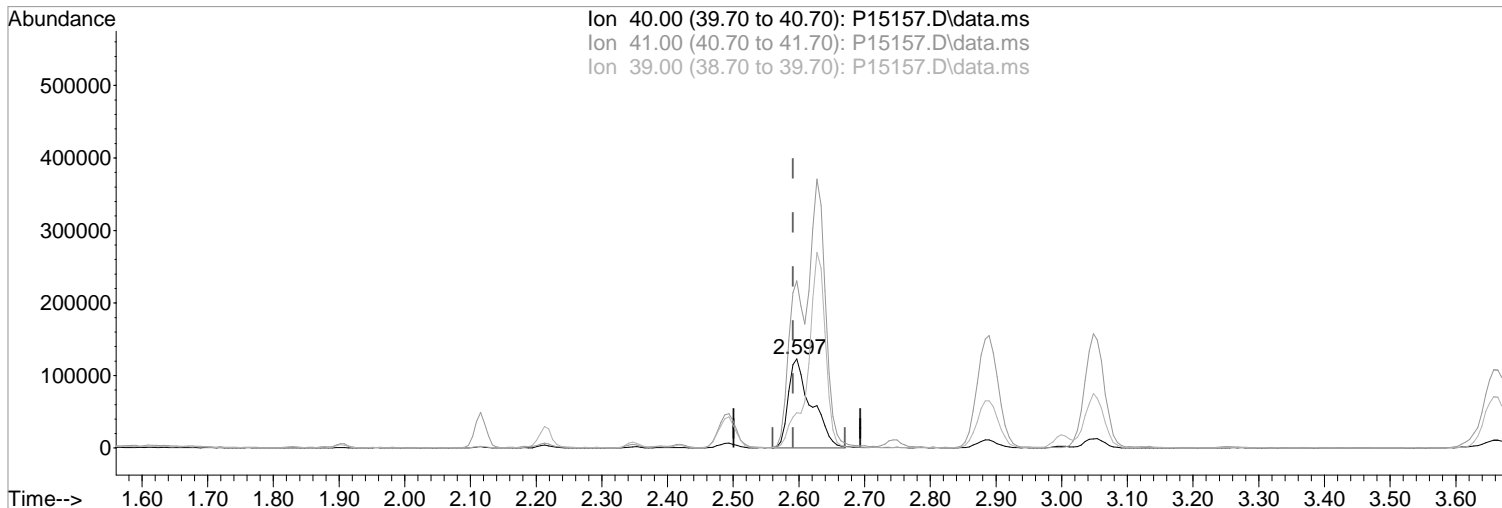
01/02/18

Ion	Exp%	Act%
40.00	100	100
41.00	186.50	187.65
39.00	40.10	39.75
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
Data File : P15157.D  
Acq On : 29 Dec 2017 7:54 pm  
Operator : K.Ruest  
Sample : 150ppb  
Misc : 8260 WATER ICAL  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:00 2018  
Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
Quant Title : MS#12 - 8260B WATERS 10mL Purge  
QLast Update : Tue Jan 02 09:43:32 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.597min (+0.006) 989.46 ppb  
response 297991

Manual Integration:  
Before

Ion	Exp%	Act%
40.00	100	100
41.00	186.50	187.65
39.00	40.10	39.75
0.00	0.00	0.00

01/02/18



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	292569	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	490455	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	434110	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	247756	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.231	113	547527	188.02	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	376.04%#			
48) surr1,1,2-dichloroetha...	5.761	65	734391	184.03	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	368.06%#			
65) SURR3,Toluene-d8	8.291	98	2327638	179.00	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	358.00%#			
70) SURR2,BFB	10.858	95	956833	190.21	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	380.42%#			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	539738	149.77	ppb		99
3) Chloromethane	1.305	50	622907	140.03	ppb		100
4) Vinyl Chloride	1.384	62	641459	148.03	ppb		98
5) Bromomethane	1.603	94	316635	96.21	ppb		96
6) Chloroethane	1.670	64	374393	138.39	ppb		97
7) Freon 21	1.829	67	814269	144.40	ppb		100
8) Trichlorofluoromethane	1.878	101	602038	144.19	ppb		99
9) Diethyl Ether	2.115	59	416000	143.54	ppb		99
10) Freon 123a	2.115	67	513832	146.71	ppb		99
11) Freon 123	2.170	83	600366	146.80	ppb		100
12) Acrolein	2.213	56	615460	711.56	ppb		99
13) 1,1-Diclcethene	2.298	96	397720	132.35	ppb		99
14) Freon 113	2.304	101	392173	138.10	ppb		99
15) Acetone	2.347	43	258006	145.20	ppb		99
16) 2-Propanol	2.493	45	1065868	3114.04	ppb		97
17) Iodomethane	2.432	142	556437	205.52	ppb		98
18) Carbon Disulfide	2.493	76	1268697	144.75	ppb		99
19) Acetonitrile	2.597	40	238029m	790.36	ppb		
20) Allyl Chloride	2.627	76	201357	125.80	ppb		90
21) Methyl Acetate	2.652	43	462488	145.17	ppb		98
22) Methylene Chloride	2.743	84	445429	140.53	ppb		94
23) TBA	2.890	59	1786989	3028.82	ppb		100
24) Acrylonitrile	2.999	53	1218100	711.32	ppb		98
25) Methyl-t-Butyl Ether	3.048	73	1557430	144.57	ppb		99
26) trans-1,2-Dichloroethene	3.036	96	440239	140.51	ppb		96
28) 1,1-Diclcethane	3.536	63	815707	144.81	ppb		99
29) Vinyl Acetate	3.627	86	122751	132.88	ppb	#	85
30) DIPE	3.658	45	1499391	139.77	ppb		99
31) 2-Chloro-1,3-Butadiene	3.658	53	749401	137.52	ppb		98
32) ETBE	4.182	59	1553259	143.58	ppb		99
33) 2,2-Dichloropropane	4.359	77	693672	138.48	ppb		99
34) cis-1,2-Dichloroethene	4.365	96	506031	136.46	ppb		99
35) 2-Butanone	4.414	43	320247	142.76	ppb		95
36) Propionitrile	4.493	54	514127	706.44	ppb		100
37) Bromochloromethane	4.761	130	288792	141.90	ppb		99
38) Methacrylonitrile	4.761	67	256359	136.00	ppb		97
39) Tetrahydrofuran	4.853	42	194913	149.06	ppb		95
40) Chloroform	4.944	83	758817	124.18	ppb		99
41) 1,1,1-Trichloroethane	5.237	97	663489	138.22	ppb		99

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	1515937	143.56	ppb	99
44) Cyclohexane	5.328	41	445198	139.45	ppb	99
46) Carbontetrachloride	5.517	117	544735	147.96	ppb	96
47) 1,1-Dichloropropene	5.529	75	612237	141.71	ppb	96
49) Benzene	5.846	78	1818984	141.98	ppb	99
50) 1,2-Dichloroethane	5.883	62	682917	145.10	ppb	99
51) Iso-Butyl Alcohol	5.871	43	821240	3159.49	ppb	98
52) n-Heptane	6.334	43	595523	134.29	ppb	98
53) 1-Butanol	6.834	56	1390226	8085.40	ppb	99
54) Trichloroethene	6.797	130	462521	140.77	ppb	97
55) Methylcyclohexane	7.035	55	614887	143.82	ppb	99
56) 1,2-Diclpropane	7.078	63	480907	140.71	ppb	99
57) Dibromomethane	7.218	93	294803	144.48	ppb	100
58) 1,4-Dioxane	7.279	88	212207	3145.58	ppb	99
59) Methyl Methacrylate	7.303	69	446487	142.01	ppb	98
60) Bromodichloromethane	7.444	83	595001	137.22	ppb	97
61) 2-Nitropropane	7.730	41	391518	297.02	ppb	95
62) 2-Chloroethylvinyl Ether	7.852	63	144721	186.53	ppb	96
63) cis-1,3-Dichloropropene	7.992	75	810061	149.24	ppb	99
64) 4-Methyl-2-pentanone	8.200	43	602146	144.44	ppb	97
66) Toluene	8.364	91	1934015	138.98	ppb	100
67) trans-1,3-Dichloropropene	8.632	75	759648	150.23	ppb	99
68) Ethyl Methacrylate	8.773	69	783521	153.64	ppb	98
69) 1,1,2-Trichloroethane	8.821	97	437457	138.37	ppb	97
72) Tetrachloroethene	8.955	164	332311	138.72	ppb	98
73) 2-Hexanone	9.114	43	484165	151.49	ppb	96
74) 1,3-Dichloropropane	8.992	76	791974	141.97	ppb	98
75) Dibromochloromethane	9.218	129	445592	153.05	ppb	99
76) N-Butyl Acetate	9.266	43	968879	161.06	ppb	98
77) 1,2-Dibromoethane	9.315	107	451565	146.01	ppb	100
78) Chlorobenzene	9.809	112	1238808	145.66	ppb	98
79) 3-CBTF	9.827	180	622531	137.28	ppb	99
80) 4-CBTF	9.882	180	562205	135.66	ppb	96
81) 1,1,1,2-Tetrachloroethane	9.900	131	443581	146.72	ppb	97
82) Ethylbenzene	9.931	106	673420	143.42	ppb	# 91
83) (m+p)Xylene	10.047	106	1644308	289.32	ppb	91
84) o-Xylene	10.400	106	825179	145.01	ppb	99
85) Styrene	10.413	104	1451842	151.56	ppb	98
87) Bromoform	10.565	173	317619	146.97	ppb	99
88) 2-CBTF	10.644	180	618636	126.12	ppb	97
89) Isopropylbenzene	10.742	105	2092787	128.56	ppb	97
90) Cyclohexanone	10.803	55	3524297	2846.05	ppb	97
91) trans-1,4-Dichloro-2-B...	11.047	53	197069	152.75	ppb	96
92) 1,1,2,2-Tetrachloroethane	10.998	83	711154	144.76	ppb	97
93) Bromobenzene	10.986	156	525400	131.79	ppb	# 87
94) 1,2,3-Trichloropropane	11.028	110	229053	143.53	ppb	92
95) n-Propylbenzene	11.095	91	2472471	130.63	ppb	98
96) 2-Chlorotoluene	11.156	91	1540580	131.28	ppb	99
97) 3-Chlorotoluene	11.211	91	1619765	130.85	ppb	98
98) 4-Chlorotoluene	11.248	91	1816544	133.98	ppb	99
99) 1,3,5-Trimethylbenzene	11.248	105	1806839	132.71	ppb	96
100) tert-Butylbenzene	11.522	119	1573501	133.89	ppb	99
101) 1,2,4-Trimethylbenzene	11.559	105	1867526	136.96	ppb	98
102) 3,4-DCBTF	11.620	214	534041	136.18	ppb	98
103) sec-Butylbenzene	11.705	105	2330647	134.77	ppb	97
104) p-Isopropyltoluene	11.827	119	2002602	137.60	ppb	97

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 9 Sample Multiplier: 1

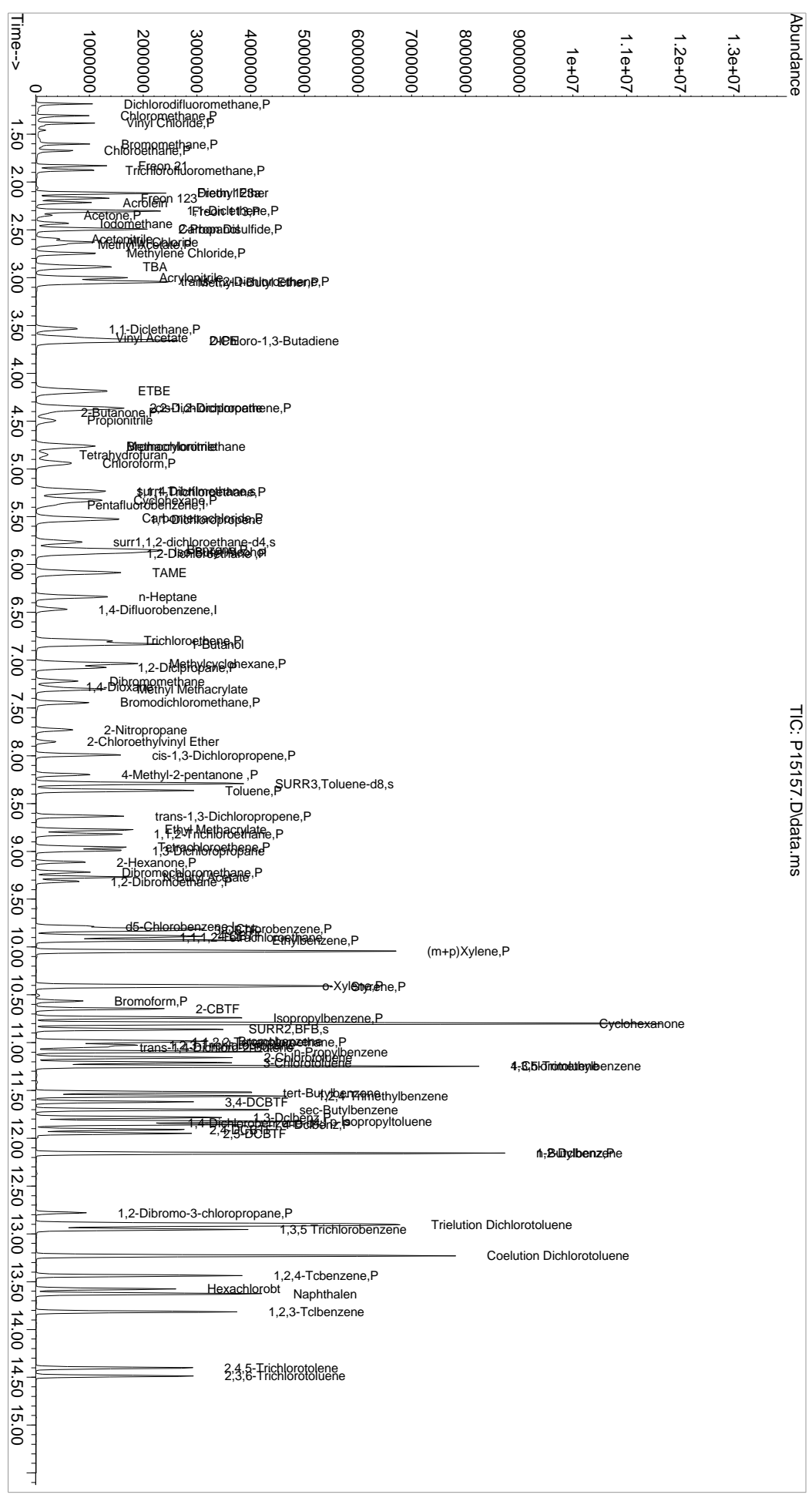
Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	1067793	140.91	ppb	97
106) 1,4-Dclbenz	11.857	146	1100174	138.34	ppb	100
107) 2,4-DCBTF	11.912	214	504051	138.72	ppb	96
108) 2,5-DCBTF	11.949	214	565452	145.64	ppb	98
109) n-Butylbenzene	12.156	91	1957468	144.19	ppb	97
110) 1,2-Dclbenz	12.156	146	1119097	147.96	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.778	157	188568	152.33	ppb	89
112) Trielution Dichlorotol...	12.906	125	3274890	440.19	ppb	95
113) 1,3,5 Trichlorobenzene	12.955	180	873495	148.34	ppb	99
114) Coelution Dichlorotoluene	13.229	125	2410195	305.46	ppb	98
115) 1,2,4-Tcbenzene	13.436	180	872721	158.74	ppb	96
116) Hexachlorobt	13.577	225	365403	143.18	ppb	99
117) Naphthalen	13.625	128	2437047	160.66	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	838162	156.95	ppb	99
119) 2,4,5-Trichlorotolene	14.400	159	607215	187.55	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	543243	184.61	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15157.D  
 Acq On : 29 Dec 2017 7:54 pm  
 Operator : K.Ruest  
 Sample : 150ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 9 Sample Multiplier: 1  
 Inst : MSVOA-12

Quant Time: Jan 02 11:37:06 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	5.377	168	290912	50.00	ppb	0.00	
43) 1,4-Difluorobenzene	6.468	114	487367	50.00	ppb	0.00	
71) d5-Chlorobenzene	9.785	117	437596	50.00	ppb	0.00	
86) 1,4-Dichlorobenzene-d4	11.839	152	247869	50.00	ppb	0.00	
<b>System Monitoring Compounds</b>							
45) surr4,Dibrflmethane	5.225	113	144272	49.86	ppb	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.72%			
48) surr1,1,2-dichloroetha...	5.767	65	197998	49.93	ppb	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	99.86%			
65) SURR3,Toluene-d8	8.291	98	644017	49.84	ppb	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	99.68%			
70) SURR2,BFB	10.858	95	257652	51.54	ppb	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	103.08%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.183	85	751240	209.65	ppb		98
3) Chloromethane	1.305	50	842475	190.47	ppb		99
4) Vinyl Chloride	1.384	62	868455	201.56	ppb		100
5) Bromomethane	1.603	94	461003	140.87	ppb		96
6) Chloroethane	1.683	64	527822	196.21	ppb		97
7) Freon 21	1.835	67	1111626	198.26	ppb		100
8) Trichlorofluoromethane	1.878	101	821925	197.97	ppb		99
9) Diethyl Ether	2.115	59	566315	196.52	ppb		99
10) Freon 123a	2.115	67	693482	199.14	ppb		98
11) Freon 123	2.170	83	806074	198.22	ppb		99
12) Acrolein	2.213	56	845277	982.83	ppb		98
13) 1,1-Dicethene	2.304	96	547719	183.30	ppb		96
14) Freon 113	2.311	101	538979	190.88	ppb		98
15) Acetone	2.347	43	351188	198.76	ppb		98
16) 2-Propanol	2.481	45	1373962	4037.03	ppb		100
17) Iodomethane	2.432	142	808369	300.27	ppb		100
18) Carbon Disulfide	2.493	76	1729359	198.43	ppb		99
19) Acetonitrile	2.591	40	294271	982.67	ppb		99
20) Allyl Chloride	2.634	76	289745	182.05	ppb		98
21) Methyl Acetate	2.652	43	628591	198.43	ppb		98
22) Methylene Chloride	2.749	84	610961	193.85	ppb		98
23) TBA	2.884	59	2296991	3915.41	ppb		100
24) Acrylonitrile	2.999	53	1645062	966.12	ppb		100
25) Methyl-t-Butyl Ether	3.048	73	2091958	195.29	ppb		98
26) trans-1,2-Dichloroethene	3.042	96	599623	192.48	ppb		98
28) 1,1-Dicethane	3.536	63	1099476	196.30	ppb		100
29) Vinyl Acetate	3.627	86	169659	184.71	ppb	#	86
30) DIPE	3.664	45	2008391	188.29	ppb		96
31) 2-Chloro-1,3-Butadiene	3.658	53	1021309	188.49	ppb		98
32) ETBE	4.188	59	2094666	194.73	ppb		99
33) 2,2-Dichloropropane	4.365	77	944252	189.58	ppb		98
34) cis-1,2-Dichloroethene	4.371	96	679606	184.32	ppb		99
35) 2-Butanone	4.408	43	437404	196.10	ppb		99
36) Propionitrile	4.493	54	675244	933.11	ppb		99
37) Bromochloromethane	4.761	130	397989	196.67	ppb		95
38) Methacrylonitrile	4.767	67	343737	183.40	ppb		95
39) Tetrahydrofuran	4.853	42	263268	202.48	ppb		95
40) Chloroform	4.944	83	1035776	170.47	ppb		99
41) 1,1,1-Trichloroethane	5.243	97	903387	189.27	ppb		99

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) TAME	6.084	73	2037262	194.02	ppb	99
44) Cyclohexane	5.328	41	604103	190.42	ppb	95
46) Carbontetrachloride	5.517	117	735485	201.04	ppb	97
47) 1,1-Dichloropropene	5.529	75	842599	196.27	ppb	97
49) Benzene	5.846	78	2449784	192.43	ppb	99
50) 1,2-Dichloroethane	5.883	62	902735	193.02	ppb	98
51) Iso-Butyl Alcohol	5.865	43	1039787	4025.64	ppb	100
52) n-Heptane	6.340	43	845487	191.86	ppb	97
53) 1-Butanol	6.834	56	1754566	10269.01	ppb	99
54) Trichloroethene	6.797	130	629327	192.75	ppb	96
55) Methylcyclohexane	7.035	55	841747	198.13	ppb	99
56) 1,2-Diclpropane	7.078	63	656968	193.44	ppb	99
57) Dibromomethane	7.218	93	394147	194.39	ppb	99
58) 1,4-Dioxane	7.279	88	271954	4056.76	ppb	99
59) Methyl Methacrylate	7.303	69	602614	192.88	ppb	99
60) Bromodichloromethane	7.444	83	805927	187.04	ppb	97
61) 2-Nitropropane	7.730	41	530882	405.30	ppb	96
62) 2-Chloroethylvinyl Ether	7.852	63	197975	256.79	ppb	99
63) cis-1,3-Dichloropropene	7.992	75	1093652	202.76	ppb	98
64) 4-Methyl-2-pentanone	8.200	43	818222	197.52	ppb	98
66) Toluene	8.364	91	2622312	189.63	ppb	99
67) trans-1,3-Dichloropropene	8.632	75	1036667	206.31	ppb	99
68) Ethyl Methacrylate	8.773	69	1047414	206.69	ppb	100
69) 1,1,2-Trichloroethane	8.821	97	587034	186.86	ppb	98
72) Tetrachloroethene	8.956	164	452798	187.50	ppb	98
73) 2-Hexanone	9.114	43	645998	200.51	ppb	95
74) 1,3-Dichloropropane	8.992	76	1085040	192.96	ppb	96
75) Dibromochloromethane	9.218	129	608537	207.35	ppb	100
76) N-Butyl Acetate	9.266	43	1292182	213.09	ppb	98
77) 1,2-Dibromoethane	9.315	107	614032	196.96	ppb	97
78) Chlorobenzene	9.809	112	1680665	196.04	ppb	97
79) 3-CBTF	9.827	180	876297	191.70	ppb	97
80) 4-CBTF	9.882	180	784651	187.83	ppb	97
81) 1,1,1,2-Tetrachloroethane	9.900	131	608273	199.59	ppb	97
82) Ethylbenzene	9.931	106	929718	196.43	ppb	# 89
83) (m+p)Xylene	10.047	106	2264539	395.27	ppb	# 84
84) o-Xylene	10.400	106	1136660	198.16	ppb	96
85) Styrene	10.413	104	1971122	204.13	ppb	97
87) Bromoform	10.565	173	430898	199.29	ppb	99
88) 2-CBTF	10.644	180	864752	176.21	ppb	98
89) Isopropylbenzene	10.742	105	2851948	175.12	ppb	96
90) Cyclohexanone	10.803	55	4382480	3537.46	ppb	93
91) trans-1,4-Dichloro-2-B...	11.047	53	262051	203.03	ppb	97
92) 1,1,2,2-Tetrachloroethane	10.998	83	927526	188.72	ppb	97
93) Bromobenzene	10.986	156	721898	180.99	ppb	# 87
94) 1,2,3-Trichloropropane	11.028	110	298297	186.83	ppb	# 90
95) n-Propylbenzene	11.095	91	3339751	176.37	ppb	96
96) 2-Chlorotoluene	11.156	91	2098787	178.77	ppb	99
97) 3-Chlorotoluene	11.211	91	2217961	179.09	ppb	99
98) 4-Chlorotoluene	11.248	91	2483738	183.11	ppb	97
99) 1,3,5-Trimethylbenzene	11.248	105	2494924	183.17	ppb	95
100) tert-Butylbenzene	11.522	119	2187207	186.03	ppb	98
101) 1,2,4-Trimethylbenzene	11.559	105	2528724	185.37	ppb	96
102) 3,4-DCBTF	11.620	214	739979	188.61	ppb	98
103) sec-Butylbenzene	11.705	105	3183145	183.98	ppb	95
104) p-Isopropyltoluene	11.827	119	2749131	188.81	ppb	97



Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration

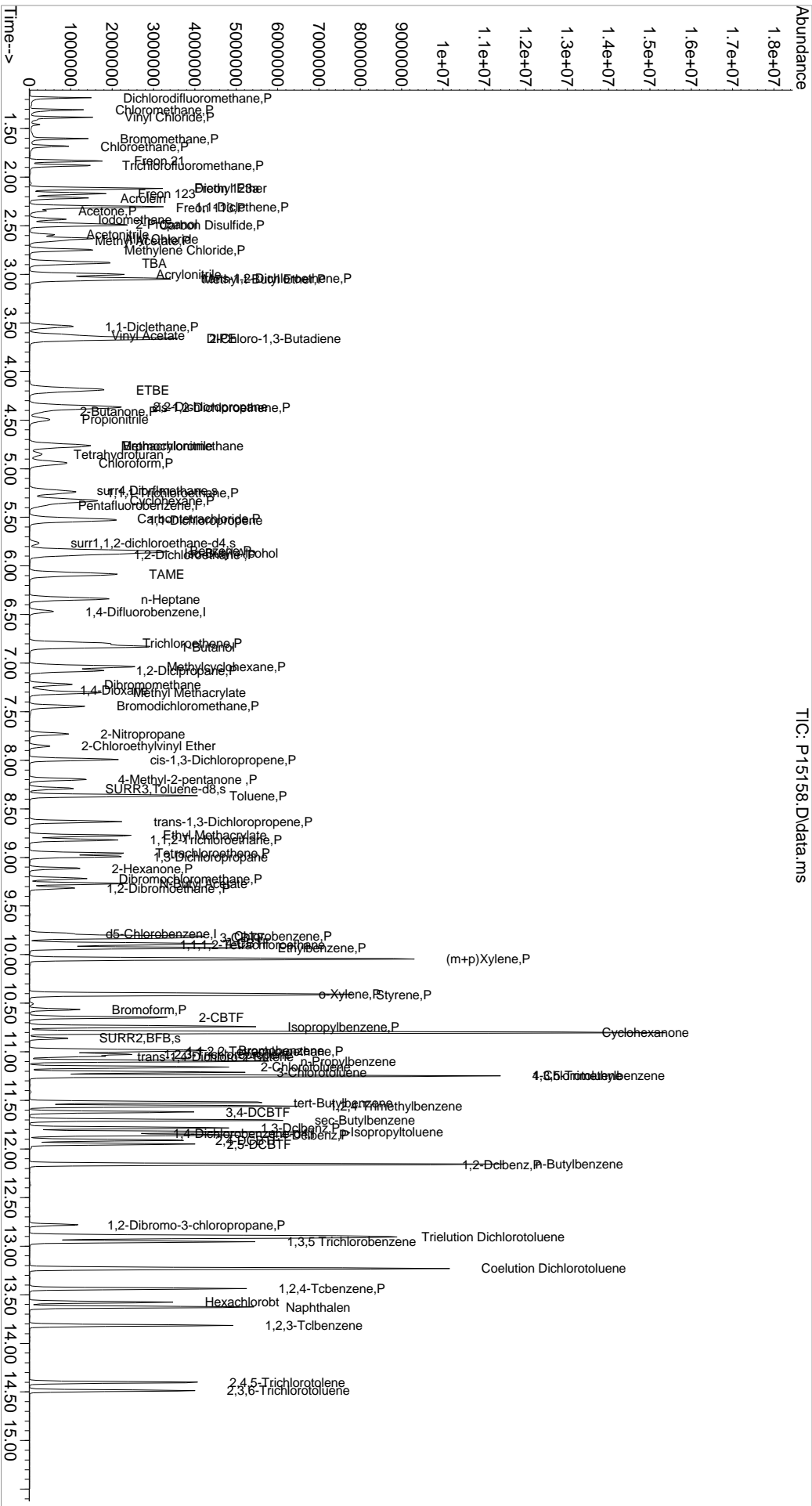
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,3-Dclbenz	11.784	146	1435051	189.28	ppb	97
106) 1,4-Dclbenz	11.857	146	1475977	185.51	ppb	98
107) 2,4-DCBTF	11.912	214	693879	190.88	ppb	98
108) 2,5-DCBTF	11.949	214	774579	199.41	ppb	97
109) n-Butylbenzene	12.156	91	2655114	195.50	ppb	96
110) 1,2-Dclbenz	12.162	146	1466109	193.75	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.784	157	244588	197.50	ppb	99
112) Trielution Dichlorotol...	12.900	125	4327505	581.41	ppb	98
113) 1,3,5 Trichlorobenzene	12.955	180	1187560	201.58	ppb	99
114) Coelution Dichlorotoluene	13.229	125	3153338	399.46	ppb	96
115) 1,2,4-Tcbenzene	13.436	180	1152706	209.58	ppb	98
116) Hexachlorobt	13.577	225	488363	191.28	ppb	98
117) Naphthalen	13.625	128	3152851	207.75	ppb	99
118) 1,2,3-Tclbenzene	13.814	180	1096108	205.16	ppb	98
119) 2,4,5-Trichlorotolene	14.400	159	813315	251.10	ppb	99
120) 2,3,6-Trichlorotoluene	14.485	159	743055	252.39	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 01/02/18

Data Path : I:\ACQDATA\msvoa12\Data\122917\  
 Data File : P15158.D  
 Acq On : 29 Dec 2017 8:16 pm  
 Operator : K.Ruest  
 Sample : 200ppb  
 Disc : 8260 WATER ICAL  
 PALS Vial : 10 Sample Multiplier: 1  
 Inst : MSVOA-12

Quant Time: Jan 02 10:05:03 2018  
 Quant Method : I:\ACQDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 Qlast Update : Tue Jan 02 09:43:32 2018  
 Response via : Initial Calibration





Evaluate Continuing Calibration Report

1st *DL* 01/03/18  
 2nd *DL* 01/04/18

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.0000	50.0000	0.0	101	0.00
2 P	Dichlorodifluoromethane	50.0000	38.3364	23.3#	72	0.00
3 P	Chloromethane	50.0000	43.5025	13.0	91	0.00
4 P	Vinyl Chloride	50.0000	46.7558	6.5	93	0.00
5 P	Bromomethane	50.0000	45.3858	9.2	107	0.00
6 P	Chloroethane	50.0000	46.6469	6.7	94	0.00
7	Freon 21	50.0000	51.8310	-3.7	104	0.00
8 P	Trichlorofluoromethane	50.0000	51.8442	-3.7	105	0.00
9	Diethyl Ether	50.0000	47.8708	4.3	102	0.00
10	Freon 123a	50.0000	55.1162	-10.2	113	0.00
11	Freon 123	50.0000	52.3280	-4.7	107	0.00
12	Acrolein	250.0000	64.4076	74.2#	27	0.00
13 P	1,1-Dicethene	50.0000	45.0181	10.0	99	0.00
14 P	Freon 113	50.0000	46.5695	6.9	98	0.00
15 P	Acetone	50.0000	48.4806	3.0	98	0.00
16	2-Propanol	1000.0000	989.1796	1.1	108	0.00
17	Iodomethane	50.0000	36.5844	26.8#	69	0.00
18 P	Carbon Disulfide	50.0000	45.9999	8.0	92	0.00
19	Acetonitrile	250.0000	236.9515	5.2	103	0.00
20	Allyl Chloride	50.0000	46.6651	6.7	99	0.00
21 P	Methyl Acetate	50.0000	50.2279	-0.5	107	0.00
22 P	Methylene Chloride	50.0000	48.2385	3.5	101	0.00
23	TBA	1000.0000	965.5453	3.4	104	0.00
24	Acrylonitrile	250.0000	238.6045	4.6	102	0.00
25 P	Methyl-t-Butyl Ether	50.0000	47.8966	4.2	99	0.00
26 P	trans-1,2-Dichloroethene	50.0000	47.9361	4.1	99	0.00
27	Halothane	-1.0000	0.0000	0.0	0	-4.00#
28 P	1,1-Dicethane	50.0000	49.5055	1.0	102	0.00
29	Vinyl Acetate	50.0000	43.1364	13.7	90	0.00
30	DIPE	50.0000	46.6654	6.7	97	0.00
31	2-Chloro-1,3-Butadiene	50.0000	45.4804	9.0	96	-0.01
32	ETBE	50.0000	48.2001	3.6	96	0.01
33	2,2-Dichloropropane	50.0000	46.2159	7.6	98	0.00
34 P	cis-1,2-Dichloroethene	50.0000	47.9734	4.1	100	0.00
35 P	2-Butanone	50.0000	46.9551	6.1	97	0.00
36	Propionitrile	250.0000	229.3379	8.3	101	-0.01
37	Bromochloromethane	50.0000	48.8549	2.3	105	0.01
38	Methacrylonitrile	50.0000	51.9388	-3.9	107	0.00
39	Tetrahydrofuran	50.0000	50.6503	-1.3	104	0.00
40 P	Chloroform	50.0000	47.1963	5.6	104	0.00
41 P	1,1,1-Trichloroethane	50.0000	48.2984	3.4	105	0.01
42	TAME	50.0000	48.8381	2.3	99	0.00
43 I	1,4-Difluorobenzene	50.0000	50.0000	0.0	102	0.00
44 P	Cyclohexane	50.0000	46.1498	7.7	99	0.00
45 s	surr4,Dibrflmethane	50.0000	49.6375	0.7	101	0.00
46 P	Carbontetrachloride	50.0000	50.9593	-1.9	103	0.00
47	1,1-Dichloropropene	50.0000	49.5886	0.8	103	0.01
48 s	surr1,1,2-dichloroethane-d4	50.0000	49.5422	0.9	100	0.00
49 P	Benzene	50.0000	49.4920	1.0	103	0.00
50 P	1,2-Dichloroethane	50.0000	48.0812	3.8	100	0.00
51	Iso-Butyl Alcohol	1000.0000	945.5165	5.4	102	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoal2\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	n-Heptane	50.0000	44.9998	10.0	93	0.02
53	1-Butanol	2500.0000	2494.2713	0.2	103	-0.01
54 P	Trichloroethene	50.0000	50.4687	-0.9	103	0.00
55 P	Methylcyclohexane	50.0000	49.0548	1.9	98	0.00
56 P	1,2-Diclp propane	50.0000	48.4676	3.1	102	0.01
57	Dibromomethane	50.0000	47.8199	4.4	100	0.00
58	1,4-Dioxane	1000.0000	976.8829	2.3	107	0.00
59	Methyl Methacrylate	50.0000	48.3817	3.2	103	-0.01
60 P	Bromodichloromethane	50.0000	48.1066	3.8	105	0.00
61	2-Nitropropane	100.0000	92.4985	7.5	98	0.00
62	2-Chloroethylvinyl Ether	50.0000	50.4464	-0.9	106	0.00
63 P	cis-1,3-Dichloropropene	50.0000	49.6107	0.8	99	0.00
64 P	4-Methyl-2-pentanone	50.0000	46.1898	7.6	96	0.00
65 s	SURR3,Toluene-d8	50.0000	49.1066	1.8	100	0.00
66 P	Toluene	50.0000	49.7158	0.6	103	0.00
67 P	trans-1,3-Dichloropropene	50.0000	50.2479	-0.5	101	0.00
68	Ethyl Methacrylate	50.0000	51.7282	-3.5	104	0.00
69 P	1,1,2-Trichloroethane	50.0000	47.0703	5.9	104	0.00
70 s	SURR2,BFB	50.0000	48.1879	3.6	100	0.00
71 I	d5-Chlorobenzene	50.0000	50.0000	0.0	102	0.00
72 P	Tetrachloroethene	50.0000	47.6152	4.8	101	-0.01
73 P	2-Hexanone	50.0000	46.7916	6.4	97	0.00
74	1,3-Dichloropropane	50.0000	48.6785	2.6	100	0.00
75 P	Dibromochloromethane	50.0000	50.3673	-0.7	102	0.00
76	N-Butyl Acetate	50.0000	53.6467	-7.3	104	-0.01
77 P	1,2-Dibromoethane	50.0000	48.5922	2.8	100	0.00
78 P	Chlorobenzene	50.0000	51.3244	-2.6	104	0.00
79	3-CBTF	50.0000	47.1241	5.8	100	0.00
80	4-CBTF	50.0000	45.9124	8.2	99	0.00
81	1,1,1,2-Tetrachloroethane	50.0000	49.5753	0.8	103	0.00
82 P	Ethylbenzene	50.0000	49.8294	0.3	103	0.00
83 P	(m+p)Xylene	100.0000	100.6183	-0.6	103	0.00
84 P	o-Xylene	50.0000	49.7286	0.5	101	0.00
85 P	Styrene	50.0000	51.1258	-2.3	101	0.00
86 I	1,4-Dichlorobenzene-d4	50.0000	50.0000	0.0	103	0.00
87 P	Bromoform	50.0000	49.8785	0.2	104	0.00
88	2-CBTF	50.0000	48.2256	3.5	100	0.00
89 P	Isopropylbenzene	50.0000	49.4973	1.0	101	0.00
90	Cyclohexanone	1000.0000	765.2859	23.5#	81	0.00
91	trans-1,4-Dichloro-2-Butene	50.0000	53.5761	-7.2	113	0.00
92 P	1,1,2,2-Tetrachloroethane	50.0000	47.7556	4.5	102	0.00
93	Bromobenzene	50.0000	49.0177	2.0	103	0.00
94	1,2,3-Trichloropropane	50.0000	49.2272	1.5	103	0.00
95	n-Propylbenzene	50.0000	50.5206	-1.0	101	0.00
96	2-Chlorotoluene	50.0000	51.3652	-2.7	107	0.00
97	3-Chlorotoluene	50.0000	49.1502	1.7	100	0.00
98	4-Chlorotoluene	50.0000	49.2336	1.5	101	0.00
99	1,3,5-Trimethylbenzene	50.0000	51.3216	-2.6	104	0.00
100	tert-Butylbenzene	50.0000	50.1446	-0.3	102	0.00
101	1,2,4-Trimethylbenzene	50.0000	52.0713	-4.1	105	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\122917\  
 Data File : P15162.D  
 Acq On : 29 Dec 2017 9:43 pm  
 Operator : K.Ruest  
 Sample : ICV 50ppb Inst : MSVOA-12  
 Misc : 8260 WATER ICAL  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 02 15:22:52 2018  
 Quant Method : I:\ACQUDATA\msvoa12\Methods\W122917.M  
 Quant Title : MS#12 - 8260B WATERS 10mL Purge  
 QLast Update : Tue Jan 02 13:02:22 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	3,4-DCBTF	50.0000	48.0202	4.0	96	0.00
103	sec-Butylbenzene	50.0000	50.8496	-1.7	102	0.00
104	p-Isopropyltoluene	50.0000	51.7027	-3.4	104	0.00
105 P	1,3-Dclbenz	50.0000	50.3245	-0.6	103	0.00
106 P	1,4-Dclbenz	50.0000	49.3074	1.4	105	0.00
107	2,4-DCBTF	50.0000	47.7617	4.5	99	0.00
108	2,5-DCBTF	50.0000	47.4753	5.0	98	0.00
109	n-Butylbenzene	50.0000	52.8775	-5.8	105	0.00
110 P	1,2-Dclbenz	50.0000	50.8620	-1.7	104	0.00
111 P	1,2-Dibromo-3-chloropropane	50.0000	47.4017	5.2	107	0.00
112	Trielution Dichlorotoluene	150.0000	148.2131	1.2	99	0.00
113	1,3,5 Trichlorobenzene	50.0000	50.3797	-0.8	101	0.00
114	Coelution Dichlorotoluene	100.0000	103.4644	-3.5	100	0.00
115 P	1,2,4-Tcbenzene	50.0000	52.6198	-5.2	103	0.00
116	Hexachlorobt	50.0000	48.8387	2.3	102	0.00
117	Naphthalen	50.0000	55.9552	-11.9	106	0.00
118	1,2,3-Tclbenzene	50.0000	54.0830	-8.2	106	0.00
119	2,4,5-Trichlorotolene	50.0000	53.9078	-7.8	99	0.00
120	2,3,6-Trichlorotoluene	50.0000	54.8488	-9.7	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/18/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800013-01	1.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4451.D	01/18/2018 12:52
02	RC1800013-02	2.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4452.D	01/18/2018 13:15
03	RC1800013-03	5.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4453.D	01/18/2018 13:38
05	RC1800013-05	50 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4455.D	01/18/2018 14:24
06	RC1800013-06	100 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4456.D	01/18/2018 14:48
07	RC1800013-07	150 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4457.D	01/18/2018 15:11
08	RC1800013-08	200 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4458.D	01/18/2018 15:34
04	RC1800013-04	20 PPB STD	I:\ACQUADATA\MSVOA14\Data\011818\C4464.D	01/18/2018 16:23

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7173	02	2.000	0.8332	03	5.000	0.7759	04	20.000	0.7167
05	50.000	0.7552	06	100.000	0.7674	07	150.000	0.8142	08	200.000	0.8219

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9305	02	2.000	0.982	03	5.000	0.9427	04	20.000	0.9741
05	50.000	0.9648	06	100.000	0.9299	07	150.000	0.9334	08	200.000	0.9726

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3382	02	2.000	0.3319	03	5.000	0.3233	04	20.000	0.3111
05	50.000	0.3088	06	100.000	0.3075	07	150.000	0.314	08	200.000	0.3205

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4493	02	2.000	0.4784	03	5.000	0.4304	04	20.000	0.3674
05	50.000	0.4095	06	100.000	0.4204	07	150.000	0.466	08	200.000	0.4602

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.8808	02	2.000	0.9431	03	5.000	0.8728	04	20.000	0.868
05	50.000	0.8419	06	100.000	0.8502	07	150.000	0.9027	08	200.000	0.9113

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.461	02	2.000	0.4675	03	5.000	0.4204	04	20.000	0.4027
05	50.000	0.4155	06	100.000	0.4275	07	150.000	0.4612	08	200.000	0.4601

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.325	02	2.000	1.266	03	5.000	1.199	04	20.000	1.274
05	50.000	1.175	06	100.000	1.126	07	150.000	1.186	08	200.000	1.207

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/18/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
**Instrument ID:** R-MS-14

**Signal ID:** 1

**Analyte**

**1,2,4-Trichlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.425	02	2.000	1.37	03	5.000	1.247	04	20.000	1.344
05	50.000	1.234	06	100.000	1.18	07	150.000	1.272	08	200.000	1.282

**1,2,4-Trimethylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.005	02	2.000	3.055	03	5.000	2.718	04	20.000	2.89
05	50.000	2.817	06	100.000	2.742	07	150.000	2.984	08	200.000	2.998

**1,2-Dibromo-3-chloropropane (DBCP)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1868	02	2.000	0.2072	03	5.000	0.2038	04	20.000	0.225
05	50.000	0.2355	06	100.000	0.2289	07	150.000	0.2244	08	200.000	0.2422

**1,2-Dibromoethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3526	02	2.000	0.3666	03	5.000	0.3574	04	20.000	0.3576
05	50.000	0.3627	06	100.000	0.3667	07	150.000	0.3707	08	200.000	0.3849

**1,2-Dichlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.755	02	2.000	1.748	03	5.000	1.63	04	20.000	1.729
05	50.000	1.624	06	100.000	1.579	07	150.000	1.664	08	200.000	1.693

**1,2-Dichloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5081	02	2.000	0.5383	03	5.000	0.4986	04	20.000	0.4858
05	50.000	0.4743	06	100.000	0.4733	07	150.000	0.4839	08	200.000	0.4881

**1,2-Dichloropropane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3782	02	2.000	0.3798	03	5.000	0.3542	04	20.000	0.3538
05	50.000	0.3377	06	100.000	0.3428	07	150.000	0.3598	08	200.000	0.3639

**1,3,5-Trimethylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.99	02	2.000	2.992	03	5.000	2.72	04	20.000	2.786
05	50.000	2.757	06	100.000	2.7	07	150.000	2.979	08	200.000	2.981

**1,3-Dichlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.907	02	2.000	1.794	03	5.000	1.615	04	20.000	1.777
05	50.000	1.644	06	100.000	1.593	07	150.000	1.74	08	200.000	1.751

**1,4-Dichlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.048	02	2.000	1.843	03	5.000	1.667	04	20.000	1.817
05	50.000	1.692	06	100.000	1.601	07	150.000	1.75	08	200.000	1.756

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/18/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,4-Dioxane											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	0.005528	02	40.000	0.006114	03	100.000	0.005834	04	400.000	0.005578
05	1000.000	0.005899	06	2000.000	0.005811	07	3000.000	0.005761	08	4000.000	0.005588

2-Butanone (MEK)											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	0.3508	04	20.000	0.2786	05	50.000	0.2976	06	100.000	0.2963
07	150.000	0.3082	08	200.000	0.3072						

2-Hexanone											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.2983	02	2.000	0.3381	03	5.000	0.3279	04	20.000	0.3132
05	50.000	0.3392	06	100.000	0.3416	07	150.000	0.3456	08	200.000	0.3505

4-Isopropyltoluene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.369	02	2.000	3.263	03	5.000	2.992	04	20.000	2.904
05	50.000	3.036	06	100.000	3	07	150.000	3.344	08	200.000	3.344

4-Methyl-2-pentanone											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3982	02	2.000	0.442	03	5.000	0.4237	04	20.000	0.3761
05	50.000	0.3999	06	100.000	0.4078	07	150.000	0.4064	08	200.000	0.4129

Acetone											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	5.000	0.2738	04	20.000	0.2178	05	50.000	0.2307	06	100.000	0.2063
07	150.000	0.2233	08	200.000	0.2074						

Benzene											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.417	02	2.000	1.376	03	5.000	1.292	04	20.000	1.26
05	50.000	1.237	06	100.000	1.249	07	150.000	1.337	08	200.000	1.327

Bromochloromethane											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3679	02	2.000	0.3619	03	5.000	0.3558	04	20.000	0.3579
05	50.000	0.3242	06	100.000	0.3245	07	150.000	0.3343	08	200.000	0.3372

Bromodichloromethane											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4869	02	2.000	0.4653	03	5.000	0.4485	04	20.000	0.4527
05	50.000	0.4467	06	100.000	0.4505	07	150.000	0.4745	08	200.000	0.4809

Bromoform											
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.254	02	2.000	0.2474	03	5.000	0.2495	04	20.000	0.2647
05	50.000	0.2756	06	100.000	0.2756	07	150.000	0.2828	08	200.000	0.3034

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/18/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
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Signal ID: 1

Analyte

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4563	02	2.000	0.4455	03	5.000	0.3988	04	20.000	0.4168
05	50.000	0.3504	06	100.000	0.2994	07	150.000	0.3163	08	200.000	0.2776

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.71	02	2.000	1.57	03	5.000	1.43	04	20.000	1.468
05	50.000	1.369	06	100.000	1.373	07	150.000	1.52	08	200.000	1.53

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.1525	02	2.000	0.1454	03	5.000	0.1411	04	20.000	0.1238
05	50.000	0.1326	06	100.000	0.1379	07	150.000	0.1474	08	200.000	0.1483

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.159	02	2.000	1.125	03	5.000	1.068	04	20.000	1.091
05	50.000	1.042	06	100.000	1.042	07	150.000	1.099	08	200.000	1.11

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3734	02	2.000	0.3204	03	5.000	0.3149	04	20.000	0.3447
05	50.000	0.3505	06	100.000	0.2764	07	150.000	0.2654	08	200.000	0.3609

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.9401	02	2.000	0.9289	03	5.000	0.8823	04	20.000	0.8815
05	50.000	0.8525	06	100.000	0.8639	07	150.000	0.9023	08	200.000	0.913

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.996	02	2.000	0.8852	03	5.000	0.7446	04	20.000	0.6964
05	50.000	0.7316	06	100.000	0.6956	07	150.000	0.7287	08	200.000	0.7161

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.3169	02	2.000	0.3622	03	5.000	0.3521	04	20.000	0.3117
05	50.000	0.3285	06	100.000	0.3295	07	150.000	0.3502	08	200.000	0.345

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4016	02	2.000	0.399	03	5.000	0.3815	04	20.000	0.3983
05	50.000	0.4009	06	100.000	0.4086	07	150.000	0.4215	08	200.000	0.4411

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6044	02	2.000	0.6074	03	5.000	0.5567	04	20.000	0.608
05	50.000	0.649	06	100.000	0.6613	07	150.000	0.7142	08	200.000	0.7111

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/18/2018

**Initial Calibration Summary**  
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**Calibration ID:** RC1800013  
**Instrument ID:** R-MS-14

**Signal ID:** 1

**Analyte**

**Dichloromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5874	02	2.000	0.5777	03	5.000	0.4982	04	20.000	0.5016
05	50.000	0.4807	06	100.000	0.4866	07	150.000	0.5131	08	200.000	0.5211

**Ethylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6005	02	2.000	0.5998	03	5.000	0.5878	04	20.000	0.5441
05	50.000	0.5412	06	100.000	0.5441	07	150.000	0.5771	08	200.000	0.5921

**Isopropylbenzene (Cumene)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.902	02	2.000	1.937	03	5.000	1.813	04	20.000	1.685
05	50.000	1.766	06	100.000	1.776	07	150.000	1.883	08	200.000	1.935

**Methyl Acetate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4043	02	2.000	0.4424	03	5.000	0.4549	04	20.000	0.3856
05	50.000	0.4294	06	100.000	0.4352	07	150.000	0.4501	08	200.000	0.4479

**Methyl tert-Butyl Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.531	02	2.000	1.707	03	5.000	1.61	04	20.000	1.607
05	50.000	1.592	06	100.000	1.597	07	150.000	1.611	08	200.000	1.653

**Methylcyclohexane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5322	02	2.000	0.5295	03	5.000	0.4647	04	20.000	0.4295
05	50.000	0.4506	06	100.000	0.4419	07	150.000	0.4914	08	200.000	0.4783

**Styrene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.26	02	2.000	1.233	03	5.000	1.202	04	20.000	1.228
05	50.000	1.19	06	100.000	1.183	07	150.000	1.25	08	200.000	1.279

**Tetrachloroethene (PCE)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4008	02	2.000	0.3414	03	5.000	0.3215	04	20.000	0.294
05	50.000	0.3069	06	100.000	0.3087	07	150.000	0.3338	08	200.000	0.3352

**Toluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.488	02	2.000	1.5	03	5.000	1.406	04	20.000	1.396
05	50.000	1.363	06	100.000	1.373	07	150.000	1.47	08	200.000	1.47

**Trichloroethene (TCE)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4004	02	2.000	0.3978	03	5.000	0.3643	04	20.000	0.3408
05	50.000	0.3381	06	100.000	0.3413	07	150.000	0.3679	08	200.000	0.365



ALS Group USA, Corp.  
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QA/QC Report

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Service Request: R1801453  
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Volatile Organic Compounds by GC/MS

Calibration ID: RC1800013  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7386	02	2.000	0.7307	03	5.000	0.6726	04	20.000	0.6036
05	50.000	0.6544	06	100.000	0.643	07	150.000	0.6864	08	200.000	0.6964

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5563	02	2.000	0.6269	03	5.000	0.5809	04	20.000	0.5727
05	50.000	0.5745	06	100.000	0.5819	07	150.000	0.6226	08	200.000	0.624

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.6433	02	2.000	0.5977	03	5.000	0.5485	04	20.000	0.5596
05	50.000	0.5429	06	100.000	0.5482	07	150.000	0.574	08	200.000	0.584

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5561	02	2.000	0.5844	03	5.000	0.5829	04	20.000	0.5816
05	50.000	0.5751	06	100.000	0.5789	07	150.000	0.6133	08	200.000	0.6164

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	0.7713	02	4.000	0.7502	03	10.000	0.7062	04	40.000	0.6856
05	100.000	0.6816	06	200.000	0.683	07	300.000	0.7245	08	400.000	0.7418

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.059	02	2.000	3.063	03	5.000	2.701	04	20.000	2.597
05	50.000	2.774	06	100.000	2.711	07	150.000	3.112	08	200.000	3.089

n-Propylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.962	02	2.000	4.114	03	5.000	3.789	04	20.000	3.699
05	50.000	3.783	06	100.000	3.706	07	150.000	4.149	08	200.000	4.098

o-Xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7544	02	2.000	0.7403	03	5.000	0.6897	04	20.000	0.7037
05	50.000	0.6795	06	100.000	0.6768	07	150.000	0.7133	08	200.000	0.7277

sec-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	3.778	02	2.000	3.785	03	5.000	3.57	04	20.000	3.287
05	50.000	3.559	06	100.000	3.536	07	150.000	3.941	08	200.000	3.913

tert-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	2.604	02	2.000	2.558	03	5.000	2.426	04	20.000	2.309
05	50.000	2.456	06	100.000	2.409	07	150.000	2.62	08	200.000	2.633

Client: Day Environmental, Incorporated  
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**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

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Instrument ID: R-MS-14

Signal ID: 1

**Analyte**

**trans-1,2-Dichloroethene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5594	02	2.000	0.5295	03	5.000	0.4961	04	20.000	0.4707
05	50.000	0.4671	06	100.000	0.4717	07	150.000	0.5056	08	200.000	0.5096

**trans-1,3-Dichloropropene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.4913	02	2.000	0.5576	03	5.000	0.5219	04	20.000	0.5407
05	50.000	0.5363	06	100.000	0.5448	07	150.000	0.5661	08	200.000	0.5741

**4-Bromofluorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.537	04	20.000	0.4529	05	50.000	0.4839	06	100.000	0.472
07	200.000	0.456									

**Dibromofluoromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.3303	04	20.000	0.2789	05	50.000	0.3134	06	100.000	0.3225
07	200.000	0.3118									

**Toluene-d8**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	1.262	04	20.000	1.096	05	50.000	1.208	06	100.000	1.21
07	200.000	1.176									

**Client:** Day Environmental, Incorporated  
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**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
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**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	5.8	20	0.7752	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	2.3	20	0.9537	0.300
1,1,2-Trichloroethane	TRG	Average RF	% RSD	3.5	20	0.3194	0.100
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	8.3	20	0.4352	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	3.8	20	0.8839	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	5.8	20	0.4395	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	5.3	20	1.22	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	6.2	20	1.294	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	4.5	20	2.901	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	8.4	20	0.2192	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	2.7	20	0.3649	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.8	20	1.678	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	4.3	20	0.4938	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	4.2	20	0.3588	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	4.7	20	2.863	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	6.1	20	1.728	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	7.7	20	1.772	0.500
1,4-Dioxane	TRG	Average RF	% RSD	3.4	20	0.005764	
2-Butanone (MEK)	TRG	Average RF	% RSD	7.9	20	0.3065	0.05
2-Hexanone	TRG	Average RF	% RSD	5.4	20	0.3318	0.05
4-Isopropyltoluene	TRG	Average RF	% RSD	6.1	20	3.156	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	4.7	20	0.4084	0.05
Acetone	TRG	Average RF	% RSD	11.0	20	0.2266	0.05
Benzene	TRG	Average RF	% RSD	4.9	20	1.312	0.500
Bromochloromethane	TRG	Average RF	% RSD	5.0	20	0.3454	
Bromodichloromethane	TRG	Average RF	% RSD	3.4	20	0.4633	0.200
Bromoform	TRG	Average RF	% RSD	7.1	20	0.2691	0.100
Bromomethane	TRG	Quadratic	COD	0.9929	0.99	0.3701	0.100
Carbon Disulfide	TRG	Average RF	% RSD	7.5	20	1.496	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	6.7	20	0.1411	0.05
Chlorobenzene	TRG	Average RF	% RSD	3.7	20	1.092	0.500
Chloroethane	TRG	Average RF	% RSD	12.0	20	0.3258	0.100
Chloroform	TRG	Average RF	% RSD	3.4	20	0.8956	0.200
Chloromethane	TRG	Average RF	% RSD	14.0	20	0.7743	0.100

**Client:** Day Environmental, Incorporated  
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**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
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**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Cyclohexane	TRG	Average RF	% RSD	5.4	20	0.337	0.100
Dibromochloromethane	TRG	Average RF	% RSD	4.4	20	0.4066	0.100
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	8.7	20	0.639	0.100
Dichloromethane	TRG	Average RF	% RSD	7.7	20	0.5208	0.100
Ethylbenzene	TRG	Average RF	% RSD	4.5	20	0.5733	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	5.0	20	1.837	0.100
Methyl Acetate	TRG	Average RF	% RSD	5.6	20	0.4312	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.1	20	1.613	0.100
Methylcyclohexane	TRG	Average RF	% RSD	8.1	20	0.4772	0.100
Styrene	TRG	Average RF	% RSD	2.8	20	1.228	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	9.9	20	0.3303	0.200
Toluene	TRG	Average RF	% RSD	3.8	20	1.433	0.400
Trichloroethene (TCE)	TRG	Average RF	% RSD	6.7	20	0.3644	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	6.6	20	0.6782	0.100
Vinyl Chloride	TRG	Average RF	% RSD	4.7	20	0.5925	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.9	20	0.5748	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	3.4	20	0.5861	0.200
m,p-Xylenes	TRG	Average RF	% RSD	4.8	20	0.718	0.100
n-Butylbenzene	TRG	Average RF	% RSD	7.3	20	2.888	
n-Propylbenzene	TRG	Average RF	% RSD	4.9	20	3.913	
o-Xylene	TRG	Average RF	% RSD	4.0	20	0.7107	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.0	20	3.671	
tert-Butylbenzene	TRG	Average RF	% RSD	4.7	20	2.502	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.4	20	0.5012	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	4.9	20	0.5416	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	7.1	20	0.4804	
Dibromofluoromethane	SURR	Average RF	% RSD	6.3	20	0.3114	
Toluene-d8	SURR	Average RF	% RSD	5.1	20	1.191	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800001-01	0.5ppb	I:\ACQUADATA\msvoa12\Data\122917\P15150.D	12/29/2017 17:22
02	RC1800001-02	1.0ppb	I:\ACQUADATA\msvoa12\Data\122917\P15151.D	12/29/2017 17:44
03	RC1800001-03	2.0ppb	I:\ACQUADATA\msvoa12\Data\122917\P15152.D	12/29/2017 18:06
04	RC1800001-04	5.0ppb	I:\ACQUADATA\msvoa12\Data\122917\P15153.D	12/29/2017 18:28
05	RC1800001-05	20ppb	I:\ACQUADATA\msvoa12\Data\122917\P15154.D	12/29/2017 18:49
06	RC1800001-06	50ppb	I:\ACQUADATA\msvoa12\Data\122917\P15155.D	12/29/2017 19:11
07	RC1800001-07	100ppb	I:\ACQUADATA\msvoa12\Data\122917\P15156.D	12/29/2017 19:32
08	RC1800001-08	150ppb	I:\ACQUADATA\msvoa12\Data\122917\P15157.D	12/29/2017 19:54
09	RC1800001-09	200ppb	I:\ACQUADATA\msvoa12\Data\122917\P15158.D	12/29/2017 20:16

**Analyte**

**1,1,1-Trichloroethane (TCA)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.008	02	1.000	0.8324	03	2.000	0.8305	04	5.000	0.8263
05	20.000	0.7547	06	50.000	0.7586	07	100.000	0.8393	08	150.000	0.7559
09	200.000	0.7763									

**1,1,2,2-Tetrachloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.174	02	1.000	0.9923	03	2.000	0.9758	04	5.000	0.9754
05	20.000	0.9626	06	50.000	0.9528	07	100.000	0.9979	08	150.000	0.9568
09	200.000	0.9355									

**1,1,2-Trichloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4078	02	1.000	0.3313	03	2.000	0.3409	04	5.000	0.3001
05	20.000	0.3023	06	50.000	0.2984	07	100.000	0.3213	08	150.000	0.2973
09	200.000	0.3011									

**1,1,2-Trichloro-1,2,2-trifluoroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5417	02	1.000	0.507	03	2.000	0.5052	04	5.000	0.4746
05	20.000	0.454	06	50.000	0.4676	07	100.000	0.5077	08	150.000	0.4468
09	200.000	0.4632									

**1,1-Dichloroethane (1,1-DCA)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.023	02	1.000	0.9379	03	2.000	0.9779	04	5.000	0.947
05	20.000	0.9354	06	50.000	0.9464	07	100.000	1.023	08	150.000	0.9294
09	200.000	0.9449									

**1,1-Dichloroethene (1,1-DCE)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6988	02	1.000	0.5509	03	2.000	0.4889	04	5.000	0.5238
05	20.000	0.4587	06	50.000	0.4697	07	100.000	0.5076	08	150.000	0.4531
09	200.000	0.4707									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 12/29/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.002	02	1.000	0.9216	03	2.000	1.146	04	5.000	1.016
05	20.000	1.037	06	50.000	1.133	07	100.000	1.211	08	150.000	1.128
09	200.000	1.106									

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.056	02	1.000	0.8897	03	2.000	1.111	04	5.000	1.127
05	20.000	1.063	06	50.000	1.167	07	100.000	1.236	08	150.000	1.174
09	200.000	1.163									

1,2,4-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.933	02	1.000	2.406	03	2.000	3.111	04	5.000	2.83
05	20.000	2.678	06	50.000	2.821	07	100.000	2.923	08	150.000	2.513
09	200.000	2.55									

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3075	03	2.000	0.2668	04	5.000	0.2471	05	20.000	0.236
06	50.000	0.2334	07	100.000	0.2617	08	150.000	0.2537	09	200.000	0.2467

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.351	02	1.000	0.3534	03	2.000	0.3576	04	5.000	0.3583
05	20.000	0.3652	06	50.000	0.3534	07	100.000	0.3695	08	150.000	0.3467
09	200.000	0.3508									

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.445	02	1.000	1.418	03	2.000	1.564	04	5.000	1.637
05	20.000	1.518	06	50.000	1.538	07	100.000	1.633	08	150.000	1.506
09	200.000	1.479									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5189	02	1.000	0.4538	03	2.000	0.4965	04	5.000	0.4925
05	20.000	0.4627	06	50.000	0.4712	07	100.000	0.4954	08	150.000	0.4641
09	200.000	0.4631									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3854	02	1.000	0.3429	03	2.000	0.3784	04	5.000	0.3342
05	20.000	0.3338	06	50.000	0.338	07	100.000	0.3592	08	150.000	0.3268
09	200.000	0.337									

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QA/QC Report

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Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

1,3,5-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.006	02	1.000	2.634	03	2.000	2.953	04	5.000	2.852
05	20.000	2.668	06	50.000	2.791	07	100.000	2.877	08	150.000	2.431
09	200.000	2.516									

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.677	02	1.000	1.429	03	2.000	1.562	04	5.000	1.59
05	20.000	1.472	06	50.000	1.544	07	100.000	1.606	08	150.000	1.437
09	200.000	1.447									

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.791	02	1.000	1.578	03	2.000	1.702	04	5.000	1.687
05	20.000	1.523	06	50.000	1.558	07	100.000	1.637	08	150.000	1.48
09	200.000	1.489									

1,4-Dioxane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.006219	04	100.000	0.007435	05	400.000	0.00659	06	1000.000	0.006423
07	2000.000	0.007289	08	3000.000	0.007211	09	4000.000	0.006975			

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.4207	05	20.000	0.3923	06	50.000	0.3734	07	100.000	0.3713
08	150.000	0.3649	09	200.000	0.3759						

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.3735	05	20.000	0.3675	06	50.000	0.3635	07	100.000	0.3634
08	150.000	0.3718	09	200.000	0.3691						

4-Isopropyltoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.185	02	1.000	2.582	03	2.000	3.235	04	5.000	3.058
05	20.000	2.757	06	50.000	2.999	07	100.000	3.151	08	150.000	2.694
09	200.000	2.773									

4-Methyl-2-pentanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.4473	04	5.000	0.4316	05	20.000	0.4288	06	50.000	0.4191
07	100.000	0.4199	08	150.000	0.4092	09	200.000	0.4197			

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.3196	05	20.000	0.3094	06	50.000	0.306	07	100.000	0.2984
08	150.000	0.294	09	200.000	0.3018						

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Calibration ID: RC1800001  
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Signal ID: 1

Analyte

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.494	02	1.000	1.173	03	2.000	1.362	04	5.000	1.318
05	20.000	1.269	06	50.000	1.282	07	100.000	1.365	08	150.000	1.236
09	200.000	1.257									

Bromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3584	02	1.000	0.3559	03	2.000	0.3587	04	5.000	0.349
05	20.000	0.3362	06	50.000	0.3244	07	100.000	0.3565	08	150.000	0.329
09	200.000	0.342									

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5049	02	1.000	0.4624	03	2.000	0.4681	04	5.000	0.4328
05	20.000	0.4059	06	50.000	0.4099	07	100.000	0.4454	08	150.000	0.4044
09	200.000	0.4134									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.415	02	1.000	0.4245	03	2.000	0.4718	04	5.000	0.4159
05	20.000	0.4381	06	50.000	0.4323	07	100.000	0.4657	08	150.000	0.4273
09	200.000	0.4346									

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7318	02	1.000	0.7031	03	2.000	0.686	04	5.000	0.6842
05	20.000	0.5588	06	50.000	0.4663	07	100.000	0.4587	08	150.000	0.3608

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.679	02	1.000	1.339	03	2.000	1.479	04	5.000	1.503
05	20.000	1.544	06	50.000	1.515	07	100.000	1.491	08	150.000	1.445
09	200.000	1.486									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.371	02	1.000	0.3193	03	2.000	0.3858	04	5.000	0.3969
05	20.000	0.3668	06	50.000	0.3771	07	100.000	0.4136	08	150.000	0.3702
09	200.000	0.3773									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.967	02	1.000	0.8977	03	2.000	1.015	04	5.000	1.044
05	20.000	0.9667	06	50.000	0.9813	07	100.000	1.033	08	150.000	0.9512
09	200.000	0.9602									



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QA/QC Report

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Calibration ID: RC1800001  
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Signal ID: 1

Analyte

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5478	02	1.000	0.3259	03	2.000	0.5455	04	5.000	0.4631
05	20.000	0.4525	06	50.000	0.4631	07	100.000	0.4831	08	150.000	0.4266
09	200.000	0.4536									

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.058	02	1.000	1.034	03	2.000	1.108	04	5.000	1.047
05	20.000	0.8838	06	50.000	0.8881	07	100.000	0.9486	08	150.000	0.8645
09	200.000	0.8901									

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8715	02	1.000	0.8115	03	2.000	0.7951	04	5.000	0.6871
05	20.000	0.7249	06	50.000	0.7336	07	100.000	0.7845	08	150.000	0.7097
09	200.000	0.724									

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3967	03	2.000	0.3553	04	5.000	0.3116	05	20.000	0.3077
06	50.000	0.3118	07	100.000	0.3177	08	150.000	0.3026	09	200.000	0.3099

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3019	02	1.000	0.312	03	2.000	0.3334	04	5.000	0.3512
05	20.000	0.3269	06	50.000	0.3388	07	100.000	0.364	08	150.000	0.3421
09	200.000	0.3477									

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6417	02	1.000	0.5383	03	2.000	0.5297	04	5.000	0.5253
05	20.000	0.6313	06	50.000	0.6504	07	100.000	0.6971	08	150.000	0.6149
09	200.000	0.6456									

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.568	02	1.000	0.5432	03	2.000	0.5787	04	5.000	0.5455
05	20.000	0.5208	06	50.000	0.525	07	100.000	0.5616	08	150.000	0.5075
09	200.000	0.525									

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5468	02	1.000	0.5206	03	2.000	0.5872	04	5.000	0.5614
05	20.000	0.5085	06	50.000	0.5317	07	100.000	0.5629	08	150.000	0.5171
09	200.000	0.5312									

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Analyte

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.574	02	1.000	3.186	03	2.000	3.531	04	5.000	3.633
05	20.000	3.246	06	50.000	3.314	07	100.000	3.39	08	150.000	2.816
09	200.000	2.876									

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.5876	04	5.000	0.5336	05	20.000	0.5654	06	50.000	0.518
07	100.000	0.5394	08	150.000	0.5269	09	200.000	0.5402			

Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.832	02	1.000	1.791	03	2.000	1.974	04	5.000	1.87
05	20.000	1.838	06	50.000	1.795	07	100.000	1.898	08	150.000	1.774
09	200.000	1.798									

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3747	03	2.000	0.4746	04	5.000	0.4687	05	20.000	0.424
06	50.000	0.4449	07	100.000	0.4487	08	150.000	0.4179	09	200.000	0.4318

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.093	02	1.000	0.9589	03	2.000	1.091	04	5.000	1.123
05	20.000	1.086	06	50.000	1.134	07	100.000	1.202	08	150.000	1.115
09	200.000	1.126									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3073	02	1.000	0.2917	03	2.000	0.2929	04	5.000	0.2841
05	20.000	0.2475	06	50.000	0.2643	07	100.000	0.2816	08	150.000	0.2552
09	200.000	0.2587									

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.574	02	1.000	1.289	03	2.000	1.519	04	5.000	1.475
05	20.000	1.374	06	50.000	1.403	07	100.000	1.475	08	150.000	1.314
09	200.000	1.345									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3925	02	1.000	0.3488	03	2.000	0.309	04	5.000	0.3231
05	20.000	0.3163	06	50.000	0.3352	07	100.000	0.3524	08	150.000	0.3143
09	200.000	0.3228									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7403	02	1.000	0.6148	03	2.000	0.7681	04	5.000	0.7179

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Instrument ID: R-MS-12

Signal ID: 1

Analyte

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	0.7052	06	50.000	0.7101	07	100.000	0.7736	08	150.000	0.6859
09	200.000	0.7063									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7871	02	1.000	0.616	03	2.000	0.7275	04	5.000	0.749
05	20.000	0.7515	06	50.000	0.7481	07	100.000	0.8085	08	150.000	0.7308
09	200.000	0.7463									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6166	02	1.000	0.5455	03	2.000	0.6365	04	5.000	0.638
05	20.000	0.5786	06	50.000	0.5775	07	100.000	0.6218	08	150.000	0.5765
09	200.000	0.584									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6006	02	1.000	0.4628	03	2.000	0.511	04	5.000	0.5676
05	20.000	0.5625	06	50.000	0.563	07	100.000	0.6012	08	150.000	0.5506
09	200.000	0.561									

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.629	02	2.000	0.5812	03	4.000	0.7147	04	10.000	0.6994
05	40.000	0.6347	06	100.000	0.6525	07	200.000	0.7017	08	300.000	0.6313
09	400.000	0.6469									

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.909	02	1.000	2.459	03	2.000	2.786	04	5.000	2.726
05	20.000	2.563	06	50.000	2.858	07	100.000	3.044	08	150.000	2.634
09	200.000	2.678									

n-Propylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.019	02	1.000	3.7	03	2.000	4.031	04	5.000	4.163
05	20.000	3.822	06	50.000	3.946	07	100.000	4.002	08	150.000	3.326
09	200.000	3.368									

o-Xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6801	02	1.000	0.6093	03	2.000	0.6863	04	5.000	0.6676
05	20.000	0.6267	06	50.000	0.656	07	100.000	0.6898	08	150.000	0.6336
09	200.000	0.6494									

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 12/29/2017

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800001  
Instrument ID: R-MS-12

Signal ID: 1

Analyte

sec-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.76	02	1.000	3.269	03	2.000	3.686	04	5.000	3.686
05	20.000	3.381	06	50.000	3.576	07	100.000	3.708	08	150.000	3.136
09	200.000	3.211									

tert-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.559	02	1.000	2.142	03	2.000	2.604	04	5.000	2.526
05	20.000	2.296	06	50.000	2.405	07	100.000	2.491	08	150.000	2.117
09	200.000	2.206									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5602	02	1.000	0.5063	03	2.000	0.5366	04	5.000	0.5328
05	20.000	0.5048	06	50.000	0.5129	07	100.000	0.551	08	150.000	0.5016
09	200.000	0.5153									

trans-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4838	02	1.000	0.4768	03	2.000	0.5216	04	5.000	0.5084
05	20.000	0.5164	06	50.000	0.5229	07	100.000	0.5615	08	150.000	0.5163
09	200.000	0.5318									

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5995	05	20.000	0.4536	06	50.000	0.506	07	100.000	0.5177
08	200.000	0.4877									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3386	05	20.000	0.2707	06	50.000	0.2965	07	100.000	0.2994
08	200.000	0.2791									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.572	05	20.000	1.232	06	50.000	1.33	07	100.000	1.308
08	200.000	1.186									

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	9.7	20	0.8203	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	7.2	20	0.9914	0.300
1,1,2-Trichloroethane	TRG	Average RF	% RSD	11.1	20	0.3223	0.100
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	6.5	20	0.4853	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	3.8	20	0.9627	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	14.9	20	0.5136	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	8.3	20	1.078	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	9.0	20	1.109	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	8.4	20	2.752	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	9.2	20	0.2566	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	2.1	20	0.3562	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	5.0	20	1.526	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	4.5	20	0.4798	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	6.0	20	0.3484	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	7.2	20	2.748	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	5.7	20	1.529	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	6.6	20	1.605	0.500
1,4-Dioxane	TRG	Average RF	% RSD	6.8	20	0.006877	
2-Butanone (MEK)	TRG	Average RF	% RSD	5.4	20	0.3831	0.05
2-Hexanone	TRG	Average RF	% RSD	1.1	20	0.3681	0.05
4-Isopropyltoluene	TRG	Average RF	% RSD	8.2	20	2.937	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	2.9	20	0.4251	0.05
Acetone	TRG	Average RF	% RSD	3.0	20	0.3049	0.05
Benzene	TRG	Average RF	% RSD	7.1	20	1.306	0.500
Bromochloromethane	TRG	Average RF	% RSD	3.8	20	0.3456	
Bromodichloromethane	TRG	Average RF	% RSD	7.9	20	0.4386	0.200
Bromoform	TRG	Average RF	% RSD	4.6	20	0.4361	0.100
Bromomethane	TRG	Quadratic	COD	0.9924	0.99	0.5812	0.100
Carbon Disulfide	TRG	Average RF	% RSD	6.0	20	1.498	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	6.9	20	0.3753	0.05
Chlorobenzene	TRG	Average RF	% RSD	4.6	20	0.9796	0.500
Chloroethane	TRG	Average RF	% RSD	14.2	20	0.4623	0.100
Chloroform	TRG	Average RF	% RSD	9.6	20	0.9692	0.200
Chloromethane	TRG	Average RF	% RSD	7.8	20	0.7602	0.100

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 12/29/2017

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Cyclohexane	TRG	Average RF	% RSD	10.0	20	0.3267	0.100
Dibromochloromethane	TRG	Average RF	% RSD	5.8	20	0.3353	0.100
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	10.2	20	0.6083	0.100
Dichloromethane	TRG	Average RF	% RSD	4.4	20	0.5417	0.100
Ethylbenzene	TRG	Average RF	% RSD	4.8	20	0.5408	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	8.8	20	3.285	0.100
Methyl Acetate	TRG	Average RF	% RSD	4.4	20	0.5445	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.5	20	1.841	0.100
Methylcyclohexane	TRG	Average RF	% RSD	7.3	20	0.4357	0.100
Styrene	TRG	Average RF	% RSD	5.8	20	1.103	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	7.3	20	0.2759	0.200
Toluene	TRG	Average RF	% RSD	6.9	20	1.419	0.400
Trichloroethene (TCE)	TRG	Average RF	% RSD	7.9	20	0.335	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	6.6	20	0.7136	0.100
Vinyl Chloride	TRG	Average RF	% RSD	7.2	20	0.7405	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	5.4	20	0.5972	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	7.8	20	0.5534	0.200
m,p-Xylenes	TRG	Average RF	% RSD	6.6	20	0.6546	0.100
n-Butylbenzene	TRG	Average RF	% RSD	6.6	20	2.74	
n-Propylbenzene	TRG	Average RF	% RSD	7.8	20	3.82	
o-Xylene	TRG	Average RF	% RSD	4.3	20	0.6554	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.9	20	3.49	
tert-Butylbenzene	TRG	Average RF	% RSD	7.9	20	2.372	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	4.1	20	0.5246	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	4.9	20	0.5155	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	10.6	20	0.5129	
Dibromofluoromethane	SURR	Average RF	% RSD	8.8	20	0.2969	
Toluene-d8	SURR	Average RF	% RSD	11.3	20	1.326	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/18/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800013-09	50 PPB ICV	I:\ACQUADATA\MSVOA14\Data\011818\C4461.D	01/18/2018 17:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	51.0	7.752E-1	7.907E-1	1.99	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	49.0	9.537E-1	9.352E-1	-1.948	±30	Average RF
1,1,2-Trichloroethane	50.0	48.3	3.194E-1	3.084E-1	-3.460	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	54.6	4.352E-1	4.757E-1	9.29	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.1	8.839E-1	8.676E-1	-1.844	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	49.7	4.395E-1	4.368E-1	-0.608	±30	Average RF
1,2,3-Trichlorobenzene	50.0	50.2	1.22E0	1.225E0	0.409	±30	Average RF
1,2,4-Trichlorobenzene	50.0	51.1	1.294E0	1.324E0	2.28	±30	Average RF
1,2,4-Trimethylbenzene	50.0	51.7	2.901E0	2.999E0	3.38	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	49.1	2.192E-1	2.152E-1	-1.840	±30	Average RF
1,2-Dibromoethane	50.0	48.3	3.649E-1	3.528E-1	-3.322	±30	Average RF
1,2-Dichlorobenzene	50.0	50.6	1.678E0	1.697E0	1.13	±30	Average RF
1,2-Dichloroethane	50.0	47.8	4.938E-1	4.722E-1	-4.365	±30	Average RF
1,2-Dichloropropane	50.0	48.1	3.588E-1	3.451E-1	-3.813	±30	Average RF
1,3,5-Trimethylbenzene	50.0	52.2	2.863E0	2.988E0	4.37	±30	Average RF
1,3-Dichlorobenzene	50.0	50.7	1.728E0	1.751E0	1.34	±30	Average RF
1,4-Dichlorobenzene	50.0	49.5	1.772E0	1.755E0	-0.934	±30	Average RF
1,4-Dioxane	1000	915	5.764E-3	5.276E-3	-8.472	±30	Average RF
2-Butanone (MEK)	50.0	48.6	3.065E-1	2.978E-1	-2.828	±30	Average RF
2-Hexanone	50.0	49.3	3.318E-1	3.27E-1	-1.459	±30	Average RF
4-Isopropyltoluene	50.0	53.0	3.156E0	3.344E0	5.94	±30	Average RF
4-Methyl-2-pentanone	50.0	46.5	4.084E-1	3.799E-1	-6.974	±30	Average RF
Acetone	50.0	53.7	2.266E-1	2.432E-1	7.36	±30	Average RF
Benzene	50.0	48.9	1.312E0	1.284E0	-2.164	±30	Average RF
Bromochloromethane	50.0	47.4	3.454E-1	3.274E-1	-5.212	±30	Average RF
Bromodichloromethane	50.0	49.2	4.633E-1	4.563E-1	-1.511	±30	Average RF
Bromoform	50.0	49.3	2.691E-1	2.653E-1	-1.413	±30	Average RF
Bromomethane	50.0	49.2	3.701E-1	3.612E-1	-1.687	±30	Quadratic
Carbon Disulfide	50.0	47.8	1.496E0	1.431E0	-4.346	±30	Average RF
Carbon Tetrachloride	50.0	50.7	1.411E-1	1.43E-1	1.34	±30	Average RF
Chlorobenzene	50.0	49.4	1.092E0	1.078E0	-1.295	±30	Average RF
Chloroethane	50.0	53.8	3.258E-1	3.503E-1	7.50	±30	Average RF
Chloroform	50.0	49.6	8.956E-1	8.881E-1	-0.836	±30	Average RF
Chloromethane	50.0	44.8	7.743E-1	6.938E-1	-10.389	±30	Average RF
Cyclohexane	50.0	49.7	3.37E-1	3.351E-1	-0.573	±30	Average RF

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/18/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800013  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800013-09	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\011818\C4461.D	01/18/2018 17:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Dibromochloromethane	50.0	49.1	4.066E-1	3.992E-1	-1.815	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	49.0	6.39E-1	6.26E-1	-2.043	±30	Average RF
Dichloromethane	50.0	46.5	5.208E-1	4.843E-1	-7.017	±30	Average RF
Ethylbenzene	50.0	49.8	5.733E-1	5.708E-1	-0.441	±30	Average RF
Isopropylbenzene (Cumene)	50.0	49.8	1.837E0	1.83E0	-0.387	±30	Average RF
Methyl Acetate	50.0	46.0	4.312E-1	3.967E-1	-8.016	±30	Average RF
Methyl tert-Butyl Ether	50.0	47.8	1.613E0	1.543E0	-4.390	±30	Average RF
Methylcyclohexane	50.0	50.0	4.772E-1	4.776E-1	0.084	±30	Average RF
Styrene	50.0	49.4	1.228E0	1.215E0	-1.106	±30	Average RF
Tetrachloroethene (PCE)	50.0	50.0	3.303E-1	3.304E-1	0.048	±30	Average RF
Toluene	50.0	49.7	1.433E0	1.424E0	-0.664	±30	Average RF
Trichloroethene (TCE)	50.0	49.3	3.644E-1	3.59E-1	-1.494	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	54.1	6.782E-1	7.333E-1	8.12	±30	Average RF
Vinyl Chloride	50.0	51.1	5.925E-1	6.053E-1	2.16	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.3	5.748E-1	5.557E-1	-3.313	±30	Average RF
cis-1,3-Dichloropropene	50.0	49.3	5.861E-1	5.782E-1	-1.348	±30	Average RF
m,p-Xylenes	100	98.9	7.18E-1	7.103E-1	-1.078	±30	Average RF
n-Butylbenzene	50.0	54.3	2.888E0	3.14E0	8.69	±30	Average RF
n-Propylbenzene	50.0	51.3	3.913E0	4.016E0	2.64	±30	Average RF
o-Xylene	50.0	48.7	7.107E-1	6.919E-1	-2.643	±30	Average RF
sec-Butylbenzene	50.0	51.5	3.671E0	3.785E0	3.10	±30	Average RF
tert-Butylbenzene	50.0	51.0	2.502E0	2.552E0	2.00	±30	Average RF
trans-1,2-Dichloroethene	50.0	49.0	5.012E-1	4.911E-1	-2.017	±30	Average RF
trans-1,3-Dichloropropene	50.0	49.0	5.416E-1	5.309E-1	-1.977	±30	Average RF
4-Bromofluorobenzene	50.0	50.5	4.804E-1	4.847E-1	0.912	±30	Average RF
Dibromofluoromethane	50.0	50.8	3.114E-1	3.162E-1	1.57	±30	Average RF
Toluene-d8	50.0	50.7	1.191E0	1.208E0	1.48	±30	Average RF



ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 12/29/2017

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
11	RC1800001-11	ICV/LCS	I:\ACQUADATA\msvoa12\Data\010318\P15169.D	01/03/2018 11:34
10	RC1800001-10	ICV 50ppb	I:\ACQUADATA\msvoa12\Data\122917\P15162.D	12/29/2017 21:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.3	8.203E-1	7.924E-1	-3.403	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	47.8	9.914E-1	9.469E-1	-4.489	±30	Average RF
1,1,2-Trichloroethane	50.0	47.1	3.223E-1	3.034E-1	-5.859	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.6	4.853E-1	4.52E-1	-6.861	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.5	9.627E-1	9.532E-1	-0.989	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.0	5.136E-1	4.624E-1	-9.964	±30	Average RF
1,2,3-Trichlorobenzene	50.0	54.1	1.078E0	1.166E0	8.17	±30	Average RF
1,2,4-Trichlorobenzene	50.0	52.6	1.109E0	1.168E0	5.24	±30	Average RF
1,2,4-Trimethylbenzene	50.0	52.1	2.752E0	2.866E0	4.14	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	47.4	2.566E-1	2.433E-1	-5.197	±30	Average RF
1,2-Dibromoethane	50.0	48.6	3.562E-1	3.462E-1	-2.816	±30	Average RF
1,2-Dichlorobenzene	50.0	50.9	1.526E0	1.553E0	1.72	±30	Average RF
1,2-Dichloroethane	50.0	48.1	4.798E-1	4.614E-1	-3.838	±30	Average RF
1,2-Dichloropropane	50.0	48.5	3.484E-1	3.378E-1	-3.065	±30	Average RF
1,3,5-Trimethylbenzene	50.0	51.3	2.748E0	2.82E0	2.64	±30	Average RF
1,3-Dichlorobenzene	50.0	50.3	1.529E0	1.539E0	0.649	±30	Average RF
1,4-Dichlorobenzene	50.0	49.3	1.605E0	1.583E0	-1.385	±30	Average RF
1,4-Dioxane	1000	977	6.877E-3	6.718E-3	-2.312	±30	Average RF
2-Butanone (MEK)	50.0	47.0	3.831E-1	3.597E-1	-6.090	±30	Average RF
2-Hexanone	50.0	46.8	3.681E-1	3.445E-1	-6.417	±30	Average RF
4-Isopropyltoluene	50.0	51.7	2.937E0	3.037E0	3.41	±30	Average RF
4-Methyl-2-pentanone	50.0	46.2	4.251E-1	3.927E-1	-7.620	±30	Average RF
Acetone	50.0	48.5	3.049E-1	2.956E-1	-3.039	±30	Average RF
Benzene	50.0	49.5	1.306E0	1.293E0	-1.016	±30	Average RF
Bromochloromethane	50.0	48.9	3.456E-1	3.377E-1	-2.290	±30	Average RF
Bromodichloromethane	50.0	48.1	4.386E-1	4.22E-1	-3.787	±30	Average RF
Bromoform	50.0	49.9	4.361E-1	4.351E-1	-0.243	±30	Average RF
Bromomethane	50.0	45.4	5.812E-1	4.956E-1	-9.228	±30	Quadratic
Carbon Disulfide	50.0	46.0	1.498E0	1.378E0	-8.000	±30	Average RF
Carbon Tetrachloride	50.0	51.0	3.753E-1	3.825E-1	1.92	±30	Average RF
Chlorobenzene	50.0	51.3	9.796E-1	1.006E0	2.65	±30	Average RF
Chloroethane	50.0	46.6	4.623E-1	4.313E-1	-6.706	±30	Average RF
Chloroform	50.0	47.2	9.692E-1	9.148E-1	-5.607	±30	Average RF
Chloromethane	50.0	43.5	7.602E-1	6.614E-1	-12.995	±30	Average RF

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 12/29/2017

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800001  
**Instrument ID:** R-MS-12

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
11	RC1800001-11	ICV/LCS	I:\ACQUADATA\msvoa12\Data\010318\P15169.D	01/03/2018 11:34
10	RC1800001-10	ICV 50ppb	I:\ACQUADATA\msvoa12\Data\122917\P15162.D	12/29/2017 21:43

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Cyclohexane	50.0	46.1	3.267E-1	3.015E-1	-7.700	±30	Average RF
Dibromochloromethane	50.0	50.4	3.353E-1	3.378E-1	0.735	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	52.9	6.083E-1	6.433E-1	5.75	±30	Average RF
Dichloromethane	50.0	48.2	5.417E-1	5.226E-1	-3.523	±30	Average RF
Ethylbenzene	50.0	49.8	5.408E-1	5.39E-1	-0.341	±30	Average RF
Isopropylbenzene (Cumene)	50.0	49.5	3.285E0	3.252E0	-1.005	±30	Average RF
Methyl Acetate	50.0	50.2	5.445E-1	5.469E-1	0.456	±30	Average RF
Methyl tert-Butyl Ether	50.0	47.9	1.841E0	1.764E0	-4.207	±30	Average RF
Methylcyclohexane	50.0	49.1	4.357E-1	4.274E-1	-1.890	±30	Average RF
Styrene	50.0	51.1	1.103E0	1.128E0	2.25	±30	Average RF
Tetrachloroethene (PCE)	50.0	47.6	2.759E-1	2.628E-1	-4.770	±30	Average RF
Toluene	50.0	49.7	1.419E0	1.411E0	-0.568	±30	Average RF
Trichloroethene (TCE)	50.0	50.5	3.35E-1	3.381E-1	0.937	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	51.8	7.136E-1	7.399E-1	3.69	±30	Average RF
Vinyl Chloride	50.0	46.8	7.405E-1	6.925E-1	-6.488	±30	Average RF
cis-1,2-Dichloroethene	50.0	48.0	5.972E-1	5.73E-1	-4.053	±30	Average RF
cis-1,3-Dichloropropene	50.0	49.6	5.534E-1	5.491E-1	-0.779	±30	Average RF
m,p-Xylenes	100	101	6.546E-1	6.586E-1	0.618	±30	Average RF
n-Butylbenzene	50.0	52.9	2.74E0	2.897E0	5.76	±30	Average RF
n-Propylbenzene	50.0	50.5	3.82E0	3.86E0	1.04	±30	Average RF
o-Xylene	50.0	49.7	6.554E-1	6.519E-1	-0.543	±30	Average RF
sec-Butylbenzene	50.0	50.8	3.49E0	3.549E0	1.70	±30	Average RF
tert-Butylbenzene	50.0	50.1	2.372E0	2.379E0	0.289	±30	Average RF
trans-1,2-Dichloroethene	50.0	47.9	5.246E-1	5.03E-1	-4.128	±30	Average RF
trans-1,3-Dichloropropene	50.0	50.2	5.155E-1	5.181E-1	0.496	±30	Average RF
4-Bromofluorobenzene	50.0	48.2	5.129E-1	4.943E-1	-3.624	±30	Average RF
Dibromofluoromethane	50.0	49.6	2.969E-1	2.947E-1	-0.725	±30	Average RF
Toluene-d8	50.0	49.1	1.326E0	1.302E0	-1.787	±30	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801453  
Date Analyzed: 02/22/18 12:52

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C  
File ID: I:\ACQUADATA\MSVOA14\Data\022218\C5044.D\  
Signal ID: 1

Calibration Date: 1/18/2018  
Calibration ID: RC1800013  
Analysis Lot: 581283  
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	52.0	0.7752	0.8059	4.0	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.1	0.9537	0.8608	-9.7	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	46.8	0.3194	0.299	-6.4	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	59.2	0.4352	0.515	18.3	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.6	0.8839	0.9291	5.1	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	53.1	0.4395	0.4667	6.2	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	38.0	1.2198	0.9261	-24.1*	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	44.5	1.2942	1.1528	-10.9	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	53.5	2.901	3.1039	7.0	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	38.9	0.2192	0.1704	-22.3*	NA	±20	Average RF
1,2-Dibromoethane	50.0	47.5	0.3649	0.3469	-4.9	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	49.7	1.6777	1.6681	-0.6	NA	±20	Average RF
1,2-Dichloroethane	50.0	48.8	0.4938	0.4823	-2.3	NA	±20	Average RF
1,2-Dichloropropane	50.0	50.3	0.3588	0.3609	0.6	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	54.6	2.863	3.1258	9.2	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	52.0	1.7276	1.798	4.1	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	50.5	1.7718	1.7907	1.1	NA	±20	Average RF
1,4-Dioxane	1000	892	0.0058	0.0051	-10.8	NA	±20	Average RF
2-Butanone (MEK)	50.0	46.1	0.3065	0.2825	-7.8	NA	±20	Average RF
2-Hexanone	50.0	44.9	0.3318	0.298	-10.2	NA	±20	Average RF
4-Isopropyltoluene	50.0	55.8	3.1564	3.5199	11.5	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	43.9	0.4084	0.3582	-12.3	NA	±20	Average RF
Acetone	50.0	49.9	0.2266	0.226	-0.3	NA	±20	Average RF
Benzene	50.0	50.9	1.3119	1.3366	1.9	NA	±20	Average RF
Bromochloromethane	50.0	50.8	0.3454	0.3508	1.6	NA	±20	Average RF
Bromodichloromethane	50.0	48.8	0.4633	0.4518	-2.5	NA	±20	Average RF
Bromoform	50.0	44.1	0.2691	0.2375	-11.8	NA	±20	Average RF
Bromomethane	50.0	49.4	0.3701	0.3626	NA	-1.3	±20	Quadratic
Carbon Disulfide	50.0	47.5	1.4962	1.4204	-5.1	NA	±20	Average RF
Carbon Tetrachloride	50.0	50.2	0.1411	0.1418	0.5	NA	±20	Average RF
Chlorobenzene	50.0	49.9	1.092	1.0887	-0.3	NA	±20	Average RF
Chloroethane	50.0	55.2	0.3258	0.36	10.5	NA	±20	Average RF
Chloroform	50.0	51.5	0.8956	0.923	3.1	NA	±20	Average RF
Chloromethane	50.0	44.2	0.7743	0.6849	-11.5	NA	±20	Average RF
Cyclohexane	50.0	55.5	0.337	0.3739	10.9	NA	±20	Average RF
Dibromochloromethane	50.0	46.7	0.4066	0.3797	-6.6	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	57.1	0.639	0.7291	14.1	NA	±20	Average RF
Dichloromethane	50.0	48.9	0.5208	0.5092	-2.2	NA	±20	Average RF
Ethylbenzene	50.0	50.9	0.5733	0.5838	1.8	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	52.4	1.8371	1.9246	4.8	NA	±20	Average RF
Methyl Acetate	50.0	52.0	0.4312	0.4481	3.9	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	47.8	1.6133	1.5413	-4.5	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18 12:52

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUDATA\MSVOA14\Data\022218\C5044.D\  
**Signal ID:** 1

**Calibration Date:** 1/18/2018  
**Calibration ID:** RC1800013  
**Analysis Lot:** 581283  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	53.9	0.4772	0.5145	7.8	NA	±20	Average RF
Styrene	50.0	49.6	1.2281	1.2193	-0.7	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	51.7	0.3303	0.3412	3.3	NA	±20	Average RF
Toluene	50.0	51.0	1.4332	1.4621	2.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	51.3	0.3644	0.3742	2.7	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	55.6	0.6782	0.7539	11.2	NA	±20	Average RF
Vinyl Chloride	50.0	56.0	0.5925	0.6637	12.0	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	49.7	0.5748	0.5716	-0.5	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	49.1	0.5861	0.5755	-1.8	NA	±20	Average RF
m,p-Xylenes	100	102	0.718	0.7313	1.9	NA	±20	Average RF
n-Butylbenzene	50.0	57.7	2.8884	3.3335	15.4	NA	±20	Average RF
n-Propylbenzene	50.0	56.3	3.9126	4.4049	12.6	NA	±20	Average RF
o-Xylene	50.0	50.4	0.7107	0.7157	0.7	NA	±20	Average RF
sec-Butylbenzene	50.0	56.6	3.6712	4.1531	13.1	NA	±20	Average RF
tert-Butylbenzene	50.0	54.9	2.502	2.7487	9.9	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	51.6	0.5012	0.5175	3.3	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	46.6	0.5416	0.5047	-6.8	NA	±20	Average RF
4-Bromofluorobenzene	50.0	48.1	0.4804	0.4622	-3.8	NA	±20	Average RF
Dibromofluoromethane	50.0	49.9	0.3114	0.311	-0.1	NA	±20	Average RF
Toluene-d8	50.0	51.4	1.1907	1.223	2.7	NA	±20	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801453  
Date Analyzed: 02/23/18 10:25

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C  
File ID: I:\ACQUADATA\msvoa12\Data\022318\P15947.D\  
Signal ID: 1

Calibration Date: 12/29/2017  
Calibration ID: RC1800001  
Analysis Lot: 581456  
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	49.0	0.8203	0.8045	-1.9	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	49.7	0.9914	0.9861	-0.5	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	51.0	0.3223	0.3289	2.1	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	53.4	0.4853	0.5187	6.9	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	53.6	0.9627	1.0314	7.1	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	49.5	0.5136	0.5087	-1.0	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	53.2	1.0777	1.1465	6.4	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	54.2	1.1095	1.2018	8.3	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	53.2	2.7517	2.9302	6.5	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	43.4	0.2566	0.223	-13.1	NA	±20	Average RF
1,2-Dibromoethane	50.0	52.9	0.3562	0.3767	5.8	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	53.1	1.5264	1.6202	6.1	NA	±20	Average RF
1,2-Dichloroethane	50.0	52.6	0.4798	0.5046	5.2	NA	±20	Average RF
1,2-Dichloropropane	50.0	53.4	0.3484	0.3719	6.7	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	52.9	2.7476	2.9043	5.7	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	54.6	1.5293	1.6686	9.1	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	51.7	1.605	1.6591	3.4	NA	±20	Average RF
1,4-Dioxane	1000	1090	0.0069	0.0075	8.9	NA	±20	Average RF
2-Butanone (MEK)	50.0	52.4	0.3831	0.4018	4.9	NA	±20	Average RF
2-Hexanone	50.0	51.7	0.3681	0.3803	3.3	NA	±20	Average RF
4-Isopropyltoluene	50.0	53.0	2.9371	3.1115	5.9	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	54.4	0.4251	0.4626	8.8	NA	±20	Average RF
Acetone	50.0	46.5	0.3049	0.2836	-7.0	NA	±20	Average RF
Benzene	50.0	54.8	1.3061	1.4307	9.5	NA	±20	Average RF
Bromochloromethane	50.0	51.6	0.3456	0.3566	3.2	NA	±20	Average RF
Bromodichloromethane	50.0	48.0	0.4386	0.4208	-4.0	NA	±20	Average RF
Bromoform	50.0	46.0	0.4361	0.4015	-7.9	NA	±20	Average RF
Bromomethane	50.0	46.7	0.5812	0.5078	NA	-6.6	±20	Quadratic
Carbon Disulfide	50.0	49.2	1.4979	1.4753	-1.5	NA	±20	Average RF
Carbon Tetrachloride	50.0	50.9	0.3753	0.3819	1.7	NA	±20	Average RF
Chlorobenzene	50.0	53.8	0.9796	1.0532	7.5	NA	±20	Average RF
Chloroethane	50.0	51.3	0.4623	0.4744	2.6	NA	±20	Average RF
Chloroform	50.0	49.7	0.9692	0.9625	-0.7	NA	±20	Average RF
Chloromethane	50.0	55.3	0.7602	0.8405	10.6	NA	±20	Average RF
Cyclohexane	50.0	54.9	0.3267	0.3587	9.8	NA	±20	Average RF
Dibromochloromethane	50.0	48.9	0.3353	0.3279	-2.2	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	55.6	0.6083	0.6759	11.1	NA	±20	Average RF
Dichloromethane	50.0	54.0	0.5417	0.5845	7.9	NA	±20	Average RF
Ethylbenzene	50.0	52.7	0.5408	0.5695	5.3	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	52.9	3.2851	3.4788	5.9	NA	±20	Average RF
Methyl Acetate	50.0	59.2	0.5445	0.6451	18.5	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	51.8	1.8411	1.9091	3.7	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 10:25

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\msvoa12\Data\022318\P15947.D\  
**Signal ID:** 1

**Calibration Date:** 12/29/2017  
**Calibration ID:** RC1800001  
**Analysis Lot:** 581456  
**Units:** ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	59.6	0.4357	0.5192	19.2	NA	±20	Average RF
Styrene	50.0	54.1	1.1033	1.1948	8.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	53.3	0.2759	0.2941	6.6	NA	±20	Average RF
Toluene	50.0	53.7	1.4187	1.5225	7.3	NA	±20	Average RF
Trichloroethene (TCE)	50.0	53.1	0.335	0.3555	6.1	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	53.3	0.7136	0.7603	6.5	NA	±20	Average RF
Vinyl Chloride	50.0	54.6	0.7405	0.8086	9.2	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	53.0	0.5972	0.6335	6.1	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	53.3	0.5534	0.5897	6.6	NA	±20	Average RF
m,p-Xylenes	100	109	0.6546	0.7126	8.9	NA	±20	Average RF
n-Butylbenzene	50.0	53.9	2.7396	2.9513	7.7	NA	±20	Average RF
n-Propylbenzene	50.0	54.8	3.8197	4.1846	9.6	NA	±20	Average RF
o-Xylene	50.0	53.2	0.6554	0.6979	6.5	NA	±20	Average RF
sec-Butylbenzene	50.0	54.4	3.4901	3.7966	8.8	NA	±20	Average RF
tert-Butylbenzene	50.0	53.0	2.3716	2.5125	5.9	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	52.8	0.5246	0.554	5.6	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	52.9	0.5155	0.5449	5.7	NA	±20	Average RF
4-Bromofluorobenzene	50.0	50.4	0.5129	0.5174	0.9	NA	±20	Average RF
Dibromofluoromethane	50.0	50.2	0.2969	0.298	0.4	NA	±20	Average RF
Toluene-d8	50.0	51.0	1.3256	1.353	2.1	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**581283  
**Instrument ID:**R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\022218\C5042.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	11:46:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5044.D	Continuing Calibration Verification	RQ1801626-02	2/22/2018	12:52:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5045.D	Lab Control Sample	RQ1801626-03	2/22/2018	13:22:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5048.D	Method Blank	RQ1801626-04	2/22/2018	14:48:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5049.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	15:18:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5050.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	15:41:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5051.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	16:04:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5053.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	16:50:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5054.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	17:13:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5057.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	18:12:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5058.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	18:35:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5060.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	19:21:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5061.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	19:44:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5062.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	20:07:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5063.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	20:30:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5064.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	20:53:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5067.D	TP-07 (4.0)	R1801453-008	2/22/2018	22:02:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5068.D	TP-08 (5.5)	R1801453-009	2/22/2018	22:26:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5069.D	TP-10 (5.0)	R1801453-011	2/22/2018	22:49:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5070.D	TP-12 (5.0)	R1801453-012	2/22/2018	23:11:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5071.D	TP-22 (4.0-5.0)	R1801453-019	2/22/2018	23:34:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5072.D	ZZZZZZZ	ZZZZZZZ	2/22/2018	23:57:00	
I:\ACQUDATA\MSVOA14\Data\022218\C5073.D	ZZZZZZZ	ZZZZZZZ	2/23/2018	00:20:00	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**581456  
**Instrument ID:**R-MS-14

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUADATA\msvoa12\Data\022318\P15946.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	09:55:00	
I:\ACQUADATA\msvoa12\Data\022318\P15947.D\	Continuing Calibration Verification	RQ1801666-02	2/23/2018	10:25:00	
I:\ACQUADATA\msvoa12\Data\022318\P15949.D\	Lab Control Sample	RQ1801666-03	2/23/2018	11:23:00	
I:\ACQUADATA\msvoa12\Data\022318\P15951.D\	Method Blank	RQ1801666-04	2/23/2018	12:12:00	
I:\ACQUADATA\msvoa12\Data\022318\P15954.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	13:26:00	
I:\ACQUADATA\msvoa12\Data\022318\P15955.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	13:48:00	
I:\ACQUADATA\msvoa12\Data\022318\P15956.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	14:10:00	
I:\ACQUADATA\msvoa12\Data\022318\P15957.D\	TP-22 (4.0-5.0)	R1801453-019	2/23/2018	14:32:00	



Analysis: 58102010 Analyst: W. Buent pH strips: N/A Tune Method: 501818  
 Date: 2/22/18 Balance ID: R-07 ResCl strips: N/A Run Method: ↓  
 Instr: 22 (4) (18) 50 mL Class A used for dilution FV Syringes: 181116 LIMS Run#: 581283  
 Data Path: \\nacquadata\msvoa4\instid\(Date)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BULK							C5058		
2	↓							C5059		
3	↓							C5060		
1	BULK							C5041		
2	↓							C5042	Y	* manual 15/18u
1	CCV							C5043	(N)	(rand) 11:46
1	CCV							C5044	Y	Acetone ↓ not (colony?)
1	CCV							C5045	Y	
1	LCS							C5046	(N)	not y/o
1	VBULK							C5047	(N)	Acetone 25.0 ppb - not?
2	↓							C5048	Y	Acetone > 5.0 ppb - RT flag
1	VBULK							C5049	Y	
1	P1501476.001	0.99	5.04g					C5050	Y	↓ 15 not
2	P1501477.005	1.01	4.97g					C5051	Y	not med
3		0.07	5.01g					C5052	(N)	not y/o
4		0.13	5.02g					C5053	Y	
5		0.14	5.00g					C5054	Y	
6		0.15	5.01g					C5055	Y	
7	(RUL)		+CSG6 - no sample?					C5056	-	
8		0.13	4.99g					C5057	(N)	Acetone? (N)
9	↓	0.05	4.98g					C5058	Y	and 2A
10	(RUL)							C5059	-	
11	P1501453.005	0.47	P1501486.003					C5060	(N)	* low not * med
12	P1501480.001	0.49						C5061	Y	
13		0.02	0.33					C5062	Y	
14		0.04	0.58					C5063	Y	
15		0.05	0.40					C5064	Y	
16		0.06	0.37					C5065	(N)	not 15
17	↓	0.07	0.45					C5066	(N)	not 15
18	P1501453.008	0.67						C5067	Y	
19		0.09	0.44					C5068	Y	
20		0.11	1.01					C5069	Y	
21	↓	0.12	0.74					C5070	Y	

All samples = 5g mL +

5 UL combined IS/Surr. 5g mL purged

Combined IS/Surr

500 Primary CC+ : 180749  
 Primary F+ : 180836  
 Primary TG : 180973  
 Primary HSL : 180975

500 Secondary CC+ : 180858  
 Secondary TG : 180713  
 Secondary HSL : 180747

Surrogate SD : 188009  
 Internal Std SD : 188008  
 Reagents:

5ml → 20mls = CCV

2ml → 5mls = LLS

\* Cont'd next page



Analysis: 581456 Waters + Analyst: L. Brust pH strips: 806717 Tune Method: W122917  
 Date: 2/23/18 Balance ID: 2-07 ResCl strips: N/A Run Method: ↓  
 Instr: 12 50 mL Class A used for dilution FV Syringes: 177416 180354 LIMS Run#: 581456 + 581463  
 Data Path: j:\acq\data\msvoo4\instid\Date (mets) (wof)

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BULK							P15944		
2	↓							P15945		
3	NVE							P15946		(auto) 9:35
1	CV							P15947		PT Shift
1	LCS							P15948		
1	LCS							P15949		
1	BULK							P15950		mtc/o
2	MEDBULK							P15951		
3	MEDBULK							P15952		
1	P1501456.005	1.0						P15953		
2	↓	7.0						P15954		
3	P1501417.007	134.0						P15955		
4	↓	0.09						P15956		
5	P1501453.019	61.5						P15957		
6	BULK							P15958		
7	P1501442.001	1.0						P15959		
8	↓	0.02						P15960		
9	P1501579.002	2.5						P15961		
10	↓	0.01						P15962		
11	↓	0.03						P15963		
12	↓	0.02						P15964		
13	P1501337.008	1.0						P15965		
14	↓	0.01						P15966		
15	↓	0.02						P15967		
16	↓	0.02						P15968		
17	P1501335.001	2.0						P15969		
18	↓	0.01						P15970		
19	BULK							P15971		
20	P1501519.004	4.0						P15972		
21	↓	0.02						P15973		
22	↓	0.01						P15974		
23	M5 001	200						P15975		

500  
 PrimaryOCt: 180249 ml + 5 ml purged P15976  
 PrimaryR+: 18036 ml → 5 ml → 5 ml  
 PrimaryT6: 18773 = CV  
 PrimaryHSL: 182975  
 Secondary FR+: 182905 - 5 ml  
 Secondary T6: 18773 ml  
 Secondary HSL: 182977  
 Combined IS/Surr: 185209  
 Surrogate 50: 185208  
 Internal Std 50: 185208  
 Reagents: MUOH 181474  
 = M5/D  
 Runlog-MSV004 1/17/17

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Folder #: R1801486

Instrument: R-BALANCE-07

Level: Medium  
 Lot # MeOH: 67-56-1  
 Lot # Sodium Bisulfate:  
 Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-276000194		R1801486-001	42.01	33.50	2/22/2018	K. Ruest	8.51		2/20/2018	Field	2/22/2018		
17-250001050		R1801486-002	45.55	33.58	2/22/2018	K. Ruest	11.97		2/20/2018	Field	2/22/2018		
17-276000209		R1801486-003	42.20	33.48	2/22/2018	K. Ruest	8.72	1.40	2/20/2018	Field	2/22/2018		74.7
17-276000220		R1801486-004	44.45	33.45	2/22/2018	K. Ruest	11.00		2/20/2018	Field	2/22/2018		
17-276000205		R1801486-005	42.46	33.62	2/22/2018	K. Ruest	8.84		2/20/2018	Field	2/22/2018		
17-276000177		R1801486-006	48.69	33.36	2/22/2018	K. Ruest	15.33		2/20/2018	Field	2/22/2018		
17-276000208		R1801486-007	43.82	33.55	2/22/2018	K. Ruest	10.27		2/20/2018	Field	2/22/2018		

Med Level based on 10 mLs MeOH  
 Low Level based on 5 mL DI

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Low

Folder #: R1801486

Instrument: R-BALANCE-07

Lot # MeOH:

Lot # Sodium Bisulfate:

Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-208002352		R1801486-001	42.51	32.30	2/22/2018	K. Ruest	10.21	0.49	2/20/2018	Field	2/22/2018		
17-208002407		R1801486-001	39.33	32.07	2/22/2018	K. Ruest	7.26	0.69	2/20/2018	Field	2/22/2018		
17-212000139		R1801486-002	47.35	32.15	2/22/2018	K. Ruest	15.20	0.33	2/20/2018	Field	2/22/2018		
17-212000116		R1801486-002	44.95	32.49	2/22/2018	K. Ruest	12.46	0.40	2/20/2018	Field	2/22/2018		
17-212000166		R1801486-003	42.70	32.16	2/22/2018	K. Ruest	10.54	0.47	2/20/2018	Field	2/22/2018		74.7
17-208001513		R1801486-004	40.90	32.23	2/22/2018	K. Ruest	8.67	0.58	2/20/2018	Field	2/22/2018		
17-208001610		R1801486-004	40.45	32.38	2/22/2018	K. Ruest	8.07	0.62	2/20/2018	Field	2/22/2018		
17-208002452		R1801486-005	40.53	32.26	2/22/2018	K. Ruest	8.27	0.60	2/20/2018	Field	2/22/2018		
17-208002439		R1801486-005	41.45	32.20	2/22/2018	K. Ruest	9.25	0.54	2/20/2018	Field	2/22/2018		
17-208002152		R1801486-006	45.75	32.16	2/22/2018	K. Ruest	13.59	0.37	2/20/2018	Field	2/22/2018		
17-208002171		R1801486-006	44.14	32.05	2/22/2018	K. Ruest	12.09	0.41	2/20/2018	Field	2/22/2018		
17-208002410		R1801486-007	40.20	32.50	2/22/2018	K. Ruest	7.70	0.65	2/20/2018	Field	2/22/2018		
17-208002358		R1801486-007	43.37	32.18	2/22/2018	K. Ruest	11.19	0.45	2/20/2018	Field	2/22/2018		

Med Level based on 10 mLs MeOH  
Low Level based on 5 mL DI

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Medium

Folder #: R1801453

Instrument: R-BALANCE-07

Lot # MeOH: 67-56-1

Lot # Sodium Bisulfate:

Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DHL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-276000169		R1801453-008	40.79	33.54	2/22/2018	Field	7.25		2/15/2018	Field	2/22/2018		
17-276000210		R1801453-009	41.08	33.52	2/22/2018	Field	7.56		2/15/2018	Field	2/22/2018		
17-276000216		R1801453-011	40.00	33.72	2/22/2018	Field	6.28		2/15/2018	Field	2/22/2018		
17-276000163		R1801453-012	40.19	33.33	2/22/2018	Field	6.86		2/15/2018	Field	2/22/2018		
17-276000198		R1801453-019	40.35	33.55	2/22/2018	Field	6.80	1.63	2/15/2018	Field	2/22/2018		84.1

Med Level based on 10 mLs MeOH  
Low Level based on 5 mL DI

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Low

Folder #: R1801453

Instrument: R-BALANCE-07

Lot # MeOH:

Lot # Sodium Bisulfate:

Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-212000263		R1801453-008	39.90	32.45	2/22/2018	Field	7.45	0.67	2/15/2018	Field	2/22/2018		
17-212000185		R1801453-008	39.87	32.44	2/22/2018	Field	7.43	0.67	2/15/2018	Field	2/22/2018		
17-208002427		R1801453-009	39.38	32.17	2/22/2018	Field	7.21	0.69	2/15/2018	Field	2/22/2018		
17-208002438		R1801453-009	38.87	32.03	2/22/2018	Field	6.84	0.73	2/15/2018	Field	2/22/2018		
17-212000168		R1801453-011	37.81	32.84	2/22/2018	Field	4.97	1.01	2/15/2018	Field	2/22/2018		
7-212000175		R1801453-011	38.17	32.16	2/22/2018	Field	6.01	0.83	2/15/2018	Field	2/22/2018		
17-212000164		R1801453-012	38.84	32.07	2/22/2018	Field	6.77	0.74	2/15/2018	Field	2/22/2018		
17-212000165		R1801453-012	39.07	32.49	2/22/2018	Field	6.58	0.76	2/15/2018	Field	2/22/2018		
17-208002225		R1801453-019	38.08	32.12	2/22/2018	Field	5.96	0.84	2/15/2018	Field	2/22/2018		84.1
17-208002234		R1801453-019	38.58	32.12	2/22/2018	Field	6.46	0.77	2/15/2018	Field	2/22/2018		84.1

Med Level based on 10 mLs MeOH  
Low Level based on 5 mL DI

# Methanol Correction Medium Extract

ALS Environmental - Rochester

Date	Analyst	Sample #	(g) Sample	(mL) MeOH	Lot# MeOH	% Solid	Moisture Dilution
2/21/2018	K. Ruest	R1801417-011	4.08	10.76	DR532	81.4	2.64
2/21/2018	K. Ruest	R1801417-009	4.12	11.09	DR532	73.6	2.69
2/22/2018	K. Ruest	R1801417-007	4.12	11.03	DR532	74.9	2.68





## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 09:09  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1900 U	1900	560	5	02/22/18 16:23	2/22/18	
2,3,4,6-Tetrachlorophenol	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
2,4,5-Trichlorophenol	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
2,4,6-Trichlorophenol	1900 U	1900	500	5	02/22/18 16:23	2/22/18	
2,4-Dichlorophenol	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
2,4-Dimethylphenol	1900 U	1900	370	5	02/22/18 16:23	2/22/18	
2,4-Dinitrophenol	9900 U	9900	360	5	02/22/18 16:23	2/22/18	
2,4-Dinitrotoluene	1900 U	1900	510	5	02/22/18 16:23	2/22/18	
2,6-Dinitrotoluene	1900 U	1900	680	5	02/22/18 16:23	2/22/18	
2-Chloronaphthalene	1900 U	1900	430	5	02/22/18 16:23	2/22/18	
2-Chlorophenol	1900 U	1900	470	5	02/22/18 16:23	2/22/18	
2-Methylnaphthalene	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
2-Methylphenol	1900 U	1900	470	5	02/22/18 16:23	2/22/18	
2-Nitroaniline	9900 U	9900	560	5	02/22/18 16:23	2/22/18	
2-Nitrophenol	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
3,3'-Dichlorobenzidine	1900 U	1900	600	5	02/22/18 16:23	2/22/18	
3- and 4-Methylphenol Coelution	1900 U	1900	490	5	02/22/18 16:23	2/22/18	
3-Nitroaniline	9900 U	9900	420	5	02/22/18 16:23	2/22/18	
4,6-Dinitro-2-methylphenol	9900 U	9900	420	5	02/22/18 16:23	2/22/18	
4-Bromophenyl Phenyl Ether	1900 U	1900	550	5	02/22/18 16:23	2/22/18	
4-Chloro-3-methylphenol	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
4-Chloroaniline	1900 U	1900	230	5	02/22/18 16:23	2/22/18	
4-Chlorophenyl Phenyl Ether	1900 U	1900	460	5	02/22/18 16:23	2/22/18	
4-Nitroaniline	9900 U	9900	430	5	02/22/18 16:23	2/22/18	
4-Nitrophenol	9900 U	9900	1200	5	02/22/18 16:23	2/22/18	
Acenaphthene	1900 U	1900	430	5	02/22/18 16:23	2/22/18	
Acenaphthylene	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Acetophenone	1900 U	1900	450	5	02/22/18 16:23	2/22/18	
Anthracene	1900 U	1900	380	5	02/22/18 16:23	2/22/18	
Atrazine	1900 U	1900	520	5	02/22/18 16:23	2/22/18	
Benz(a)anthracene	<b>680 J</b>	1900	340	5	02/22/18 16:23	2/22/18	
Benzaldehyde	9900 U	9900	460	5	02/22/18 16:23	2/22/18	
Benzo(a)pyrene	<b>770 J</b>	1900	390	5	02/22/18 16:23	2/22/18	
Benzo(b)fluoranthene	<b>1100 J</b>	1900	360	5	02/22/18 16:23	2/22/18	
Benzo(g,h,i)perylene	<b>780 J</b>	1900	440	5	02/22/18 16:23	2/22/18	
Benzo(k)fluoranthene	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
Biphenyl	1900 U	1900	450	5	02/22/18 16:23	2/22/18	
2,2'-Oxybis(1-chloropropane)	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
Bis(2-chloroethoxy)methane	1900 U	1900	440	5	02/22/18 16:23	2/22/18	
Bis(2-chloroethyl) Ether	1900 U	1900	350	5	02/22/18 16:23	2/22/18	
Bis(2-ethylhexyl) Phthalate	2900 U	2900	2700	5	02/22/18 16:23	2/22/18	
Butyl Benzyl Phthalate	1900 U	1900	370	5	02/22/18 16:23	2/22/18	
Caprolactam	1900 U	1900	430	5	02/22/18 16:23	2/22/18	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 09:09  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1900 U	1900	480	5	02/22/18 16:23	2/22/18	
Chrysene	<b>920 J</b>	1900	380	5	02/22/18 16:23	2/22/18	
Di-n-butyl Phthalate	1900 U	1900	650	5	02/22/18 16:23	2/22/18	
Di-n-octyl Phthalate	1900 U	1900	580	5	02/22/18 16:23	2/22/18	
Dibenz(a,h)anthracene	1900 U	1900	350	5	02/22/18 16:23	2/22/18	
Dibenzofuran	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Diethyl Phthalate	1900 U	1900	1100	5	02/22/18 16:23	2/22/18	
Dimethyl Phthalate	1900 U	1900	530	5	02/22/18 16:23	2/22/18	
Fluoranthene	<b>1900</b>	1900	460	5	02/22/18 16:23	2/22/18	
Fluorene	1900 U	1900	490	5	02/22/18 16:23	2/22/18	
Hexachlorobenzene	1900 U	1900	450	5	02/22/18 16:23	2/22/18	
Hexachlorobutadiene	1900 U	1900	330	5	02/22/18 16:23	2/22/18	
Hexachlorocyclopentadiene	1900 U	1900	320	5	02/22/18 16:23	2/22/18	
Hexachloroethane	1900 U	1900	340	5	02/22/18 16:23	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>720 J</b>	1900	430	5	02/22/18 16:23	2/22/18	
Isophorone	1900 U	1900	420	5	02/22/18 16:23	2/22/18	
N-Nitrosodi-n-propylamine	1900 U	1900	350	5	02/22/18 16:23	2/22/18	
N-Nitrosodiphenylamine	1900 U	1900	860	5	02/22/18 16:23	2/22/18	
Naphthalene	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Nitrobenzene	1900 U	1900	400	5	02/22/18 16:23	2/22/18	
Pentachlorophenol (PCP)	9900 U	9900	640	5	02/22/18 16:23	2/22/18	
Phenanthrene	<b>1200 J</b>	1900	400	5	02/22/18 16:23	2/22/18	
Phenol	1900 U	1900	430	5	02/22/18 16:23	2/22/18	
Pyrene	<b>1600 J</b>	1900	380	5	02/22/18 16:23	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	77	13 - 128	02/22/18 16:23	
2-Fluorobiphenyl	52	10 - 102	02/22/18 16:23	
2-Fluorophenol	43	16 - 129	02/22/18 16:23	
Nitrobenzene-d5	40	10 - 95	02/22/18 16:23	
Phenol-d6	49	10 - 145	02/22/18 16:23	
Terphenyl-d14	76	16 - 126	02/22/18 16:23	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	430 U	430	130	1	02/22/18 16:50	2/22/18	
2,3,4,6-Tetrachlorophenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2,4,5-Trichlorophenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2,4,6-Trichlorophenol	430 U	430	120	1	02/22/18 16:50	2/22/18	
2,4-Dichlorophenol	430 U	430	88	1	02/22/18 16:50	2/22/18	
2,4-Dimethylphenol	430 U	430	82	1	02/22/18 16:50	2/22/18	
2,4-Dinitrophenol	2200 U	2200	80	1	02/22/18 16:50	2/22/18	
2,4-Dinitrotoluene	430 U	430	120	1	02/22/18 16:50	2/22/18	
2,6-Dinitrotoluene	430 U	430	150	1	02/22/18 16:50	2/22/18	
2-Chloronaphthalene	430 U	430	95	1	02/22/18 16:50	2/22/18	
2-Chlorophenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2-Methylnaphthalene	430 U	430	96	1	02/22/18 16:50	2/22/18	
2-Methylphenol	430 U	430	110	1	02/22/18 16:50	2/22/18	
2-Nitroaniline	2200 U	2200	130	1	02/22/18 16:50	2/22/18	
2-Nitrophenol	430 U	430	97	1	02/22/18 16:50	2/22/18	
3,3'-Dichlorobenzidine	430 U	430	140	1	02/22/18 16:50	2/22/18	
3- and 4-Methylphenol Coelution	430 U	430	110	1	02/22/18 16:50	2/22/18	
3-Nitroaniline	2200 U	2200	93	1	02/22/18 16:50	2/22/18	
4,6-Dinitro-2-methylphenol	2200 U	2200	93	1	02/22/18 16:50	2/22/18	
4-Bromophenyl Phenyl Ether	430 U	430	130	1	02/22/18 16:50	2/22/18	
4-Chloro-3-methylphenol	430 U	430	98	1	02/22/18 16:50	2/22/18	
4-Chloroaniline	430 U	430	51	1	02/22/18 16:50	2/22/18	
4-Chlorophenyl Phenyl Ether	430 U	430	110	1	02/22/18 16:50	2/22/18	
4-Nitroaniline	2200 U	2200	94	1	02/22/18 16:50	2/22/18	
4-Nitrophenol	2200 U	2200	250	1	02/22/18 16:50	2/22/18	
Acenaphthene	430 U	430	94	1	02/22/18 16:50	2/22/18	
Acenaphthylene	430 U	430	87	1	02/22/18 16:50	2/22/18	
Acetophenone	430 U	430	100	1	02/22/18 16:50	2/22/18	
Anthracene	430 U	430	83	1	02/22/18 16:50	2/22/18	
Atrazine	430 U	430	120	1	02/22/18 16:50	2/22/18	
Benz(a)anthracene	<b>280 J</b>	430	75	1	02/22/18 16:50	2/22/18	
Benzaldehyde	2200 U	2200	110	1	02/22/18 16:50	2/22/18	
Benzo(a)pyrene	<b>290 J</b>	430	86	1	02/22/18 16:50	2/22/18	
Benzo(b)fluoranthene	<b>350 J</b>	430	78	1	02/22/18 16:50	2/22/18	
Benzo(g,h,i)perylene	<b>230 J</b>	430	98	1	02/22/18 16:50	2/22/18	
Benzo(k)fluoranthene	<b>130 J</b>	430	96	1	02/22/18 16:50	2/22/18	
Biphenyl	430 U	430	100	1	02/22/18 16:50	2/22/18	
2,2'-Oxybis(1-chloropropane)	430 U	430	110	1	02/22/18 16:50	2/22/18	
Bis(2-chloroethoxy)methane	430 U	430	98	1	02/22/18 16:50	2/22/18	
Bis(2-chloroethyl) Ether	430 U	430	78	1	02/22/18 16:50	2/22/18	
Bis(2-ethylhexyl) Phthalate	650 U	650	600	1	02/22/18 16:50	2/22/18	
Butyl Benzyl Phthalate	430 U	430	82	1	02/22/18 16:50	2/22/18	
Caprolactam	430 U	430	95	1	02/22/18 16:50	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	430 U	430	110	1	02/22/18 16:50	2/22/18	
Chrysene	<b>320 J</b>	430	84	1	02/22/18 16:50	2/22/18	
Di-n-butyl Phthalate	430 U	430	150	1	02/22/18 16:50	2/22/18	
Di-n-octyl Phthalate	430 U	430	130	1	02/22/18 16:50	2/22/18	
Dibenz(a,h)anthracene	430 U	430	78	1	02/22/18 16:50	2/22/18	
Dibenzofuran	430 U	430	88	1	02/22/18 16:50	2/22/18	
Diethyl Phthalate	430 U	430	240	1	02/22/18 16:50	2/22/18	
Dimethyl Phthalate	430 U	430	120	1	02/22/18 16:50	2/22/18	
Fluoranthene	<b>670</b>	430	110	1	02/22/18 16:50	2/22/18	
Fluorene	430 U	430	110	1	02/22/18 16:50	2/22/18	
Hexachlorobenzene	430 U	430	100	1	02/22/18 16:50	2/22/18	
Hexachlorobutadiene	430 U	430	73	1	02/22/18 16:50	2/22/18	
Hexachlorocyclopentadiene	430 U	430	71	1	02/22/18 16:50	2/22/18	
Hexachloroethane	430 U	430	75	1	02/22/18 16:50	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>230 J</b>	430	94	1	02/22/18 16:50	2/22/18	
Isophorone	430 U	430	92	1	02/22/18 16:50	2/22/18	
N-Nitrosodi-n-propylamine	430 U	430	78	1	02/22/18 16:50	2/22/18	
N-Nitrosodiphenylamine	430 U	430	200	1	02/22/18 16:50	2/22/18	
Naphthalene	430 U	430	88	1	02/22/18 16:50	2/22/18	
Nitrobenzene	430 U	430	88	1	02/22/18 16:50	2/22/18	
Pentachlorophenol (PCP)	2200 U	2200	150	1	02/22/18 16:50	2/22/18	
Phenanthrene	<b>370 J</b>	430	89	1	02/22/18 16:50	2/22/18	
Phenol	430 U	430	94	1	02/22/18 16:50	2/22/18	
Pyrene	<b>560</b>	430	83	1	02/22/18 16:50	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	13 - 128	02/22/18 16:50	
2-Fluorobiphenyl	45	10 - 102	02/22/18 16:50	
2-Fluorophenol	49	16 - 129	02/22/18 16:50	
Nitrobenzene-d5	52	10 - 95	02/22/18 16:50	
Phenol-d6	51	10 - 145	02/22/18 16:50	
Terphenyl-d14	91	16 - 126	02/22/18 16:50	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	02/22/18 17:18	2/22/18	
2,3,4,6-Tetrachlorophenol	400 U	400	99	1	02/22/18 17:18	2/22/18	
2,4,5-Trichlorophenol	400 U	400	100	1	02/22/18 17:18	2/22/18	
2,4,6-Trichlorophenol	400 U	400	110	1	02/22/18 17:18	2/22/18	
2,4-Dichlorophenol	400 U	400	83	1	02/22/18 17:18	2/22/18	
2,4-Dimethylphenol	400 U	400	77	1	02/22/18 17:18	2/22/18	
2,4-Dinitrophenol	2100 U	2100	75	1	02/22/18 17:18	2/22/18	
2,4-Dinitrotoluene	400 U	400	110	1	02/22/18 17:18	2/22/18	
2,6-Dinitrotoluene	400 U	400	150	1	02/22/18 17:18	2/22/18	
2-Chloronaphthalene	400 U	400	89	1	02/22/18 17:18	2/22/18	
2-Chlorophenol	400 U	400	98	1	02/22/18 17:18	2/22/18	
2-Methylnaphthalene	400 U	400	90	1	02/22/18 17:18	2/22/18	
2-Methylphenol	400 U	400	98	1	02/22/18 17:18	2/22/18	
2-Nitroaniline	2100 U	2100	120	1	02/22/18 17:18	2/22/18	
2-Nitrophenol	400 U	400	92	1	02/22/18 17:18	2/22/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	02/22/18 17:18	2/22/18	
3- and 4-Methylphenol Coelution	400 U	400	110	1	02/22/18 17:18	2/22/18	
3-Nitroaniline	2100 U	2100	87	1	02/22/18 17:18	2/22/18	
4,6-Dinitro-2-methylphenol	2100 U	2100	87	1	02/22/18 17:18	2/22/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	02/22/18 17:18	2/22/18	
4-Chloro-3-methylphenol	400 U	400	92	1	02/22/18 17:18	2/22/18	
4-Chloroaniline	400 U	400	48	1	02/22/18 17:18	2/22/18	
4-Chlorophenyl Phenyl Ether	400 U	400	96	1	02/22/18 17:18	2/22/18	
4-Nitroaniline	2100 U	2100	89	1	02/22/18 17:18	2/22/18	
4-Nitrophenol	2100 U	2100	240	1	02/22/18 17:18	2/22/18	
Acenaphthene	400 U	400	89	1	02/22/18 17:18	2/22/18	
Acenaphthylene	400 U	400	82	1	02/22/18 17:18	2/22/18	
Acetophenone	400 U	400	94	1	02/22/18 17:18	2/22/18	
Anthracene	400 U	400	78	1	02/22/18 17:18	2/22/18	
Atrazine	400 U	400	110	1	02/22/18 17:18	2/22/18	
Benz(a)anthracene	400 U	400	71	1	02/22/18 17:18	2/22/18	
Benzaldehyde	2100 U	2100	96	1	02/22/18 17:18	2/22/18	
Benzo(a)pyrene	400 U	400	81	1	02/22/18 17:18	2/22/18	
Benzo(b)fluoranthene	400 U	400	74	1	02/22/18 17:18	2/22/18	
Benzo(g,h,i)perylene	400 U	400	92	1	02/22/18 17:18	2/22/18	
Benzo(k)fluoranthene	400 U	400	90	1	02/22/18 17:18	2/22/18	
Biphenyl	400 U	400	94	1	02/22/18 17:18	2/22/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	99	1	02/22/18 17:18	2/22/18	
Bis(2-chloroethoxy)methane	400 U	400	92	1	02/22/18 17:18	2/22/18	
Bis(2-chloroethyl) Ether	400 U	400	73	1	02/22/18 17:18	2/22/18	
Bis(2-ethylhexyl) Phthalate	610 U	610	560	1	02/22/18 17:18	2/22/18	
Butyl Benzyl Phthalate	400 U	400	77	1	02/22/18 17:18	2/22/18	
Caprolactam	400 U	400	89	1	02/22/18 17:18	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	400 U	400	100	1	02/22/18 17:18	2/22/18	
Chrysene	400 U	400	79	1	02/22/18 17:18	2/22/18	
Di-n-butyl Phthalate	400 U	400	140	1	02/22/18 17:18	2/22/18	
Di-n-octyl Phthalate	400 U	400	130	1	02/22/18 17:18	2/22/18	
Dibenz(a,h)anthracene	400 U	400	73	1	02/22/18 17:18	2/22/18	
Dibenzofuran	400 U	400	82	1	02/22/18 17:18	2/22/18	
Diethyl Phthalate	400 U	400	220	1	02/22/18 17:18	2/22/18	
Dimethyl Phthalate	400 U	400	120	1	02/22/18 17:18	2/22/18	
Fluoranthene	400 U	400	95	1	02/22/18 17:18	2/22/18	
Fluorene	400 U	400	110	1	02/22/18 17:18	2/22/18	
Hexachlorobenzene	400 U	400	94	1	02/22/18 17:18	2/22/18	
Hexachlorobutadiene	400 U	400	68	1	02/22/18 17:18	2/22/18	
Hexachlorocyclopentadiene	400 U	400	67	1	02/22/18 17:18	2/22/18	
Hexachloroethane	400 U	400	70	1	02/22/18 17:18	2/22/18	
Indeno(1,2,3-cd)pyrene	400 U	400	89	1	02/22/18 17:18	2/22/18	
Isophorone	400 U	400	87	1	02/22/18 17:18	2/22/18	
N-Nitrosodi-n-propylamine	400 U	400	73	1	02/22/18 17:18	2/22/18	
N-Nitrosodiphenylamine	400 U	400	180	1	02/22/18 17:18	2/22/18	
Naphthalene	400 U	400	83	1	02/22/18 17:18	2/22/18	
Nitrobenzene	400 U	400	83	1	02/22/18 17:18	2/22/18	
Pentachlorophenol (PCP)	2100 U	2100	140	1	02/22/18 17:18	2/22/18	
Phenanthrene	400 U	400	84	1	02/22/18 17:18	2/22/18	
Phenol	400 U	400	88	1	02/22/18 17:18	2/22/18	
Pyrene	400 U	400	78	1	02/22/18 17:18	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	61	13 - 128	02/22/18 17:18	
2-Fluorobiphenyl	30	10 - 102	02/22/18 17:18	
2-Fluorophenol	29	16 - 129	02/22/18 17:18	
Nitrobenzene-d5	32	10 - 95	02/22/18 17:18	
Phenol-d6	30	10 - 145	02/22/18 17:18	
Terphenyl-d14	95	16 - 126	02/22/18 17:18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:48  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	350 U	350	110	1	02/22/18 17:46	2/22/18	
2,3,4,6-Tetrachlorophenol	350 U	350	87	1	02/22/18 17:46	2/22/18	
2,4,5-Trichlorophenol	350 U	350	87	1	02/22/18 17:46	2/22/18	
2,4,6-Trichlorophenol	350 U	350	91	1	02/22/18 17:46	2/22/18	
2,4-Dichlorophenol	350 U	350	72	1	02/22/18 17:46	2/22/18	
2,4-Dimethylphenol	350 U	350	67	1	02/22/18 17:46	2/22/18	
2,4-Dinitrophenol	1800 U	1800	66	1	02/22/18 17:46	2/22/18	
2,4-Dinitrotoluene	350 U	350	91	1	02/22/18 17:46	2/22/18	
2,6-Dinitrotoluene	350 U	350	130	1	02/22/18 17:46	2/22/18	
2-Chloronaphthalene	350 U	350	78	1	02/22/18 17:46	2/22/18	
2-Chlorophenol	350 U	350	85	1	02/22/18 17:46	2/22/18	
2-Methylnaphthalene	350 U	350	79	1	02/22/18 17:46	2/22/18	
2-Methylphenol	350 U	350	85	1	02/22/18 17:46	2/22/18	
2-Nitroaniline	1800 U	1800	110	1	02/22/18 17:46	2/22/18	
2-Nitrophenol	350 U	350	80	1	02/22/18 17:46	2/22/18	
3,3'-Dichlorobenzidine	350 U	350	110	1	02/22/18 17:46	2/22/18	
3- and 4-Methylphenol Coelution	350 U	350	88	1	02/22/18 17:46	2/22/18	
3-Nitroaniline	1800 U	1800	76	1	02/22/18 17:46	2/22/18	
4,6-Dinitro-2-methylphenol	1800 U	1800	76	1	02/22/18 17:46	2/22/18	
4-Bromophenyl Phenyl Ether	350 U	350	99	1	02/22/18 17:46	2/22/18	
4-Chloro-3-methylphenol	350 U	350	80	1	02/22/18 17:46	2/22/18	
4-Chloroaniline	350 U	350	42	1	02/22/18 17:46	2/22/18	
4-Chlorophenyl Phenyl Ether	350 U	350	84	1	02/22/18 17:46	2/22/18	
4-Nitroaniline	1800 U	1800	77	1	02/22/18 17:46	2/22/18	
4-Nitrophenol	1800 U	1800	210	1	02/22/18 17:46	2/22/18	
Acenaphthene	350 U	350	77	1	02/22/18 17:46	2/22/18	
Acenaphthylene	350 U	350	72	1	02/22/18 17:46	2/22/18	
Acetophenone	350 U	350	82	1	02/22/18 17:46	2/22/18	
Anthracene	350 U	350	68	1	02/22/18 17:46	2/22/18	
Atrazine	350 U	350	95	1	02/22/18 17:46	2/22/18	
Benz(a)anthracene	350 U	350	61	1	02/22/18 17:46	2/22/18	
Benzaldehyde	1800 U	1800	83	1	02/22/18 17:46	2/22/18	
Benzo(a)pyrene	350 U	350	71	1	02/22/18 17:46	2/22/18	
Benzo(b)fluoranthene	350 U	350	64	1	02/22/18 17:46	2/22/18	
Benzo(g,h,i)perylene	350 U	350	80	1	02/22/18 17:46	2/22/18	
Benzo(k)fluoranthene	350 U	350	79	1	02/22/18 17:46	2/22/18	
Biphenyl	350 U	350	82	1	02/22/18 17:46	2/22/18	
2,2'-Oxybis(1-chloropropane)	350 U	350	86	1	02/22/18 17:46	2/22/18	
Bis(2-chloroethoxy)methane	350 U	350	80	1	02/22/18 17:46	2/22/18	
Bis(2-chloroethyl) Ether	350 U	350	64	1	02/22/18 17:46	2/22/18	
Bis(2-ethylhexyl) Phthalate	530 U	530	490	1	02/22/18 17:46	2/22/18	
Butyl Benzyl Phthalate	350 U	350	67	1	02/22/18 17:46	2/22/18	
Caprolactam	350 U	350	78	1	02/22/18 17:46	2/22/18	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:48  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	350 U	350	87	1	02/22/18 17:46	2/22/18	
Chrysene	350 U	350	69	1	02/22/18 17:46	2/22/18	
Di-n-butyl Phthalate	350 U	350	120	1	02/22/18 17:46	2/22/18	
Di-n-octyl Phthalate	350 U	350	110	1	02/22/18 17:46	2/22/18	
Dibenz(a,h)anthracene	350 U	350	64	1	02/22/18 17:46	2/22/18	
Dibenzofuran	350 U	350	72	1	02/22/18 17:46	2/22/18	
Diethyl Phthalate	350 U	350	200	1	02/22/18 17:46	2/22/18	
Dimethyl Phthalate	350 U	350	96	1	02/22/18 17:46	2/22/18	
Fluoranthene	350 U	350	82	1	02/22/18 17:46	2/22/18	
Fluorene	350 U	350	88	1	02/22/18 17:46	2/22/18	
Hexachlorobenzene	350 U	350	82	1	02/22/18 17:46	2/22/18	
Hexachlorobutadiene	350 U	350	59	1	02/22/18 17:46	2/22/18	
Hexachlorocyclopentadiene	350 U	350	58	1	02/22/18 17:46	2/22/18	
Hexachloroethane	350 U	350	61	1	02/22/18 17:46	2/22/18	
Indeno(1,2,3-cd)pyrene	350 U	350	77	1	02/22/18 17:46	2/22/18	
Isophorone	350 U	350	76	1	02/22/18 17:46	2/22/18	
N-Nitrosodi-n-propylamine	350 U	350	64	1	02/22/18 17:46	2/22/18	
N-Nitrosodiphenylamine	350 U	350	160	1	02/22/18 17:46	2/22/18	
Naphthalene	350 U	350	72	1	02/22/18 17:46	2/22/18	
Nitrobenzene	350 U	350	72	1	02/22/18 17:46	2/22/18	
Pentachlorophenol (PCP)	1800 U	1800	120	1	02/22/18 17:46	2/22/18	
Phenanthrene	350 U	350	73	1	02/22/18 17:46	2/22/18	
Phenol	350 U	350	77	1	02/22/18 17:46	2/22/18	
Pyrene	350 U	350	68	1	02/22/18 17:46	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	13 - 128	02/22/18 17:46	
2-Fluorobiphenyl	51	10 - 102	02/22/18 17:46	
2-Fluorophenol	42	16 - 129	02/22/18 17:46	
Nitrobenzene-d5	49	10 - 95	02/22/18 17:46	
Phenol-d6	47	10 - 145	02/22/18 17:46	
Terphenyl-d14	101	16 - 126	02/22/18 17:46	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:12  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	390 U	390	120	1	02/22/18 18:13	2/22/18	
2,3,4,6-Tetrachlorophenol	390 U	390	96	1	02/22/18 18:13	2/22/18	
2,4,5-Trichlorophenol	390 U	390	97	1	02/22/18 18:13	2/22/18	
2,4,6-Trichlorophenol	390 U	390	100	1	02/22/18 18:13	2/22/18	
2,4-Dichlorophenol	390 U	390	80	1	02/22/18 18:13	2/22/18	
2,4-Dimethylphenol	390 U	390	74	1	02/22/18 18:13	2/22/18	
2,4-Dinitrophenol	2000 U	2000	73	1	02/22/18 18:13	2/22/18	
2,4-Dinitrotoluene	390 U	390	110	1	02/22/18 18:13	2/22/18	
2,6-Dinitrotoluene	390 U	390	140	1	02/22/18 18:13	2/22/18	
2-Chloronaphthalene	390 U	390	86	1	02/22/18 18:13	2/22/18	
2-Chlorophenol	390 U	390	94	1	02/22/18 18:13	2/22/18	
2-Methylnaphthalene	390 U	390	87	1	02/22/18 18:13	2/22/18	
2-Methylphenol	390 U	390	94	1	02/22/18 18:13	2/22/18	
2-Nitroaniline	2000 U	2000	120	1	02/22/18 18:13	2/22/18	
2-Nitrophenol	390 U	390	88	1	02/22/18 18:13	2/22/18	
3,3'-Dichlorobenzidine	390 U	390	120	1	02/22/18 18:13	2/22/18	
3- and 4-Methylphenol Coelution	390 U	390	98	1	02/22/18 18:13	2/22/18	
3-Nitroaniline	2000 U	2000	84	1	02/22/18 18:13	2/22/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	84	1	02/22/18 18:13	2/22/18	
4-Bromophenyl Phenyl Ether	390 U	390	110	1	02/22/18 18:13	2/22/18	
4-Chloro-3-methylphenol	390 U	390	88	1	02/22/18 18:13	2/22/18	
4-Chloroaniline	390 U	390	47	1	02/22/18 18:13	2/22/18	
4-Chlorophenyl Phenyl Ether	390 U	390	92	1	02/22/18 18:13	2/22/18	
4-Nitroaniline	2000 U	2000	86	1	02/22/18 18:13	2/22/18	
4-Nitrophenol	2000 U	2000	230	1	02/22/18 18:13	2/22/18	
Acenaphthene	390 U	390	86	1	02/22/18 18:13	2/22/18	
Acenaphthylene	390 U	390	79	1	02/22/18 18:13	2/22/18	
Acetophenone	390 U	390	91	1	02/22/18 18:13	2/22/18	
Anthracene	390 U	390	75	1	02/22/18 18:13	2/22/18	
Atrazine	390 U	390	110	1	02/22/18 18:13	2/22/18	
Benz(a)anthracene	<b>97 J</b>	390	68	1	02/22/18 18:13	2/22/18	
Benzaldehyde	2000 U	2000	92	1	02/22/18 18:13	2/22/18	
Benzo(a)pyrene	<b>130 J</b>	390	78	1	02/22/18 18:13	2/22/18	
Benzo(b)fluoranthene	<b>170 J</b>	390	71	1	02/22/18 18:13	2/22/18	
Benzo(g,h,i)perylene	<b>110 J</b>	390	88	1	02/22/18 18:13	2/22/18	
Benzo(k)fluoranthene	390 U	390	87	1	02/22/18 18:13	2/22/18	
Biphenyl	390 U	390	91	1	02/22/18 18:13	2/22/18	
2,2'-Oxybis(1-chloropropane)	390 U	390	95	1	02/22/18 18:13	2/22/18	
Bis(2-chloroethoxy)methane	390 U	390	89	1	02/22/18 18:13	2/22/18	
Bis(2-chloroethyl) Ether	390 U	390	71	1	02/22/18 18:13	2/22/18	
Bis(2-ethylhexyl) Phthalate	590 U	590	540	1	02/22/18 18:13	2/22/18	
Butyl Benzyl Phthalate	390 U	390	74	1	02/22/18 18:13	2/22/18	
Caprolactam	390 U	390	86	1	02/22/18 18:13	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:12  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	390 U	390	96	1	02/22/18 18:13	2/22/18	
Chrysene	<b>120 J</b>	390	76	1	02/22/18 18:13	2/22/18	
Di-n-butyl Phthalate	390 U	390	130	1	02/22/18 18:13	2/22/18	
Di-n-octyl Phthalate	390 U	390	120	1	02/22/18 18:13	2/22/18	
Dibenz(a,h)anthracene	390 U	390	70	1	02/22/18 18:13	2/22/18	
Dibenzofuran	390 U	390	79	1	02/22/18 18:13	2/22/18	
Diethyl Phthalate	390 U	390	220	1	02/22/18 18:13	2/22/18	
Dimethyl Phthalate	390 U	390	110	1	02/22/18 18:13	2/22/18	
Fluoranthene	<b>140 J</b>	390	91	1	02/22/18 18:13	2/22/18	
Fluorene	390 U	390	98	1	02/22/18 18:13	2/22/18	
Hexachlorobenzene	390 U	390	90	1	02/22/18 18:13	2/22/18	
Hexachlorobutadiene	390 U	390	66	1	02/22/18 18:13	2/22/18	
Hexachlorocyclopentadiene	390 U	390	64	1	02/22/18 18:13	2/22/18	
Hexachloroethane	390 U	390	68	1	02/22/18 18:13	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>92 J</b>	390	86	1	02/22/18 18:13	2/22/18	
Isophorone	390 U	390	84	1	02/22/18 18:13	2/22/18	
N-Nitrosodi-n-propylamine	390 U	390	71	1	02/22/18 18:13	2/22/18	
N-Nitrosodiphenylamine	390 U	390	180	1	02/22/18 18:13	2/22/18	
Naphthalene	390 U	390	80	1	02/22/18 18:13	2/22/18	
Nitrobenzene	390 U	390	80	1	02/22/18 18:13	2/22/18	
Pentachlorophenol (PCP)	2000 U	2000	130	1	02/22/18 18:13	2/22/18	
Phenanthrene	390 U	390	81	1	02/22/18 18:13	2/22/18	
Phenol	390 U	390	85	1	02/22/18 18:13	2/22/18	
Pyrene	<b>130 J</b>	390	76	1	02/22/18 18:13	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	76	13 - 128	02/22/18 18:13	
2-Fluorobiphenyl	35	10 - 102	02/22/18 18:13	
2-Fluorophenol	35	16 - 129	02/22/18 18:13	
Nitrobenzene-d5	37	10 - 95	02/22/18 18:13	
Phenol-d6	35	10 - 145	02/22/18 18:13	
Terphenyl-d14	85	16 - 126	02/22/18 18:13	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:24  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	410 U	410	130	1	02/22/18 18:41	2/22/18	
2,3,4,6-Tetrachlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,4,5-Trichlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,4,6-Trichlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,4-Dichlorophenol	410 U	410	86	1	02/22/18 18:41	2/22/18	
2,4-Dimethylphenol	410 U	410	79	1	02/22/18 18:41	2/22/18	
2,4-Dinitrophenol	2100 U	2100	78	1	02/22/18 18:41	2/22/18	
2,4-Dinitrotoluene	410 U	410	110	1	02/22/18 18:41	2/22/18	
2,6-Dinitrotoluene	410 U	410	150	1	02/22/18 18:41	2/22/18	
2-Chloronaphthalene	410 U	410	92	1	02/22/18 18:41	2/22/18	
2-Chlorophenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2-Methylnaphthalene	410 U	410	93	1	02/22/18 18:41	2/22/18	
2-Methylphenol	410 U	410	110	1	02/22/18 18:41	2/22/18	
2-Nitroaniline	2100 U	2100	120	1	02/22/18 18:41	2/22/18	
2-Nitrophenol	410 U	410	94	1	02/22/18 18:41	2/22/18	
3,3'-Dichlorobenzidine	410 U	410	130	1	02/22/18 18:41	2/22/18	
3- and 4-Methylphenol Coelution	410 U	410	110	1	02/22/18 18:41	2/22/18	
3-Nitroaniline	2100 U	2100	90	1	02/22/18 18:41	2/22/18	
4,6-Dinitro-2-methylphenol	2100 U	2100	90	1	02/22/18 18:41	2/22/18	
4-Bromophenyl Phenyl Ether	410 U	410	120	1	02/22/18 18:41	2/22/18	
4-Chloro-3-methylphenol	410 U	410	95	1	02/22/18 18:41	2/22/18	
4-Chloroaniline	410 U	410	50	1	02/22/18 18:41	2/22/18	
4-Chlorophenyl Phenyl Ether	410 U	410	99	1	02/22/18 18:41	2/22/18	
4-Nitroaniline	2100 U	2100	92	1	02/22/18 18:41	2/22/18	
4-Nitrophenol	2100 U	2100	250	1	02/22/18 18:41	2/22/18	
Acenaphthene	410 U	410	92	1	02/22/18 18:41	2/22/18	
Acenaphthylene	410 U	410	85	1	02/22/18 18:41	2/22/18	
Acetophenone	410 U	410	97	1	02/22/18 18:41	2/22/18	
Anthracene	410 U	410	80	1	02/22/18 18:41	2/22/18	
Atrazine	410 U	410	120	1	02/22/18 18:41	2/22/18	
Benz(a)anthracene	410 U	410	73	1	02/22/18 18:41	2/22/18	
Benzaldehyde	2100 U	2100	99	1	02/22/18 18:41	2/22/18	
Benzo(a)pyrene	410 U	410	84	1	02/22/18 18:41	2/22/18	
Benzo(b)fluoranthene	410 U	410	76	1	02/22/18 18:41	2/22/18	
Benzo(g,h,i)perylene	410 U	410	95	1	02/22/18 18:41	2/22/18	
Benzo(k)fluoranthene	410 U	410	93	1	02/22/18 18:41	2/22/18	
Biphenyl	410 U	410	97	1	02/22/18 18:41	2/22/18	
2,2'-Oxybis(1-chloropropane)	410 U	410	110	1	02/22/18 18:41	2/22/18	
Bis(2-chloroethoxy)methane	410 U	410	95	1	02/22/18 18:41	2/22/18	
Bis(2-chloroethyl) Ether	410 U	410	76	1	02/22/18 18:41	2/22/18	
Bis(2-ethylhexyl) Phthalate	630 U	630	580	1	02/22/18 18:41	2/22/18	
Butyl Benzyl Phthalate	410 U	410	79	1	02/22/18 18:41	2/22/18	
Caprolactam	410 U	410	92	1	02/22/18 18:41	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:24  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	410 U	410	110	1	02/22/18 18:41	2/22/18	
Chrysene	410 U	410	82	1	02/22/18 18:41	2/22/18	
Di-n-butyl Phthalate	410 U	410	140	1	02/22/18 18:41	2/22/18	
Di-n-octyl Phthalate	410 U	410	130	1	02/22/18 18:41	2/22/18	
Dibenz(a,h)anthracene	410 U	410	75	1	02/22/18 18:41	2/22/18	
Dibenzofuran	410 U	410	85	1	02/22/18 18:41	2/22/18	
Diethyl Phthalate	410 U	410	230	1	02/22/18 18:41	2/22/18	
Dimethyl Phthalate	410 U	410	120	1	02/22/18 18:41	2/22/18	
Fluoranthene	410 U	410	98	1	02/22/18 18:41	2/22/18	
Fluorene	410 U	410	110	1	02/22/18 18:41	2/22/18	
Hexachlorobenzene	410 U	410	97	1	02/22/18 18:41	2/22/18	
Hexachlorobutadiene	410 U	410	70	1	02/22/18 18:41	2/22/18	
Hexachlorocyclopentadiene	410 U	410	69	1	02/22/18 18:41	2/22/18	
Hexachloroethane	410 U	410	73	1	02/22/18 18:41	2/22/18	
Indeno(1,2,3-cd)pyrene	410 U	410	92	1	02/22/18 18:41	2/22/18	
Isophorone	410 U	410	90	1	02/22/18 18:41	2/22/18	
N-Nitrosodi-n-propylamine	410 U	410	76	1	02/22/18 18:41	2/22/18	
N-Nitrosodiphenylamine	410 U	410	190	1	02/22/18 18:41	2/22/18	
Naphthalene	410 U	410	85	1	02/22/18 18:41	2/22/18	
Nitrobenzene	410 U	410	85	1	02/22/18 18:41	2/22/18	
Pentachlorophenol (PCP)	2100 U	2100	140	1	02/22/18 18:41	2/22/18	
Phenanthrene	410 U	410	86	1	02/22/18 18:41	2/22/18	
Phenol	410 U	410	91	1	02/22/18 18:41	2/22/18	
Pyrene	410 U	410	81	1	02/22/18 18:41	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	82	13 - 128	02/22/18 18:41	
2-Fluorobiphenyl	52	10 - 102	02/22/18 18:41	
2-Fluorophenol	53	16 - 129	02/22/18 18:41	
Nitrobenzene-d5	57	10 - 95	02/22/18 18:41	
Phenol-d6	56	10 - 145	02/22/18 18:41	
Terphenyl-d14	85	16 - 126	02/22/18 18:41	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	02/22/18 19:09	2/22/18	
2,3,4,6-Tetrachlorophenol	400 U	400	98	1	02/22/18 19:09	2/22/18	
2,4,5-Trichlorophenol	400 U	400	99	1	02/22/18 19:09	2/22/18	
2,4,6-Trichlorophenol	400 U	400	110	1	02/22/18 19:09	2/22/18	
2,4-Dichlorophenol	400 U	400	82	1	02/22/18 19:09	2/22/18	
2,4-Dimethylphenol	400 U	400	76	1	02/22/18 19:09	2/22/18	
2,4-Dinitrophenol	2000 U	2000	74	1	02/22/18 19:09	2/22/18	
2,4-Dinitrotoluene	400 U	400	110	1	02/22/18 19:09	2/22/18	
2,6-Dinitrotoluene	400 U	400	140	1	02/22/18 19:09	2/22/18	
2-Chloronaphthalene	400 U	400	88	1	02/22/18 19:09	2/22/18	
2-Chlorophenol	400 U	400	96	1	02/22/18 19:09	2/22/18	
2-Methylnaphthalene	400 U	400	89	1	02/22/18 19:09	2/22/18	
2-Methylphenol	400 U	400	96	1	02/22/18 19:09	2/22/18	
2-Nitroaniline	2000 U	2000	120	1	02/22/18 19:09	2/22/18	
2-Nitrophenol	400 U	400	90	1	02/22/18 19:09	2/22/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	02/22/18 19:09	2/22/18	
3- and 4-Methylphenol Coelution	400 U	400	100	1	02/22/18 19:09	2/22/18	
3-Nitroaniline	2000 U	2000	86	1	02/22/18 19:09	2/22/18	
4,6-Dinitro-2-methylphenol	2000 U	2000	86	1	02/22/18 19:09	2/22/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	02/22/18 19:09	2/22/18	
4-Chloro-3-methylphenol	400 U	400	90	1	02/22/18 19:09	2/22/18	
4-Chloroaniline	400 U	400	48	1	02/22/18 19:09	2/22/18	
4-Chlorophenyl Phenyl Ether	400 U	400	94	1	02/22/18 19:09	2/22/18	
4-Nitroaniline	2000 U	2000	87	1	02/22/18 19:09	2/22/18	
4-Nitrophenol	2000 U	2000	230	1	02/22/18 19:09	2/22/18	
Acenaphthene	<b>220 J</b>	400	88	1	02/22/18 19:09	2/22/18	
Acenaphthylene	400 U	400	81	1	02/22/18 19:09	2/22/18	
Acetophenone	400 U	400	93	1	02/22/18 19:09	2/22/18	
Anthracene	<b>680</b>	400	77	1	02/22/18 19:09	2/22/18	
Atrazine	400 U	400	110	1	02/22/18 19:09	2/22/18	
Benz(a)anthracene	<b>1700</b>	400	69	1	02/22/18 19:09	2/22/18	
Benzaldehyde	2000 U	2000	94	1	02/22/18 19:09	2/22/18	
Benzo(a)pyrene	<b>1400</b>	400	80	1	02/22/18 19:09	2/22/18	
Benzo(b)fluoranthene	<b>1800</b>	400	72	1	02/22/18 19:09	2/22/18	
Benzo(g,h,i)perylene	<b>710</b>	400	90	1	02/22/18 19:09	2/22/18	
Benzo(k)fluoranthene	<b>700</b>	400	89	1	02/22/18 19:09	2/22/18	
Biphenyl	400 U	400	93	1	02/22/18 19:09	2/22/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	97	1	02/22/18 19:09	2/22/18	
Bis(2-chloroethoxy)methane	400 U	400	91	1	02/22/18 19:09	2/22/18	
Bis(2-chloroethyl) Ether	400 U	400	72	1	02/22/18 19:09	2/22/18	
Bis(2-ethylhexyl) Phthalate	600 U	600	550	1	02/22/18 19:09	2/22/18	
Butyl Benzyl Phthalate	400 U	400	76	1	02/22/18 19:09	2/22/18	
Caprolactam	400 U	400	88	1	02/22/18 19:09	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>300 J</b>	400	98	1	02/22/18 19:09	2/22/18	
Chrysene	<b>1700</b>	400	78	1	02/22/18 19:09	2/22/18	
Di-n-butyl Phthalate	400 U	400	140	1	02/22/18 19:09	2/22/18	
Di-n-octyl Phthalate	400 U	400	120	1	02/22/18 19:09	2/22/18	
Dibenz(a,h)anthracene	<b>200 J</b>	400	72	1	02/22/18 19:09	2/22/18	
Dibenzofuran	<b>120 J</b>	400	81	1	02/22/18 19:09	2/22/18	
Diethyl Phthalate	400 U	400	220	1	02/22/18 19:09	2/22/18	
Dimethyl Phthalate	400 U	400	110	1	02/22/18 19:09	2/22/18	
Fluoranthene	<b>4100</b>	400	93	1	02/22/18 19:09	2/22/18	
Fluorene	<b>200 J</b>	400	100	1	02/22/18 19:09	2/22/18	
Hexachlorobenzene	400 U	400	92	1	02/22/18 19:09	2/22/18	
Hexachlorobutadiene	400 U	400	67	1	02/22/18 19:09	2/22/18	
Hexachlorocyclopentadiene	400 U	400	66	1	02/22/18 19:09	2/22/18	
Hexachloroethane	400 U	400	69	1	02/22/18 19:09	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>860</b>	400	87	1	02/22/18 19:09	2/22/18	
Isophorone	400 U	400	86	1	02/22/18 19:09	2/22/18	
N-Nitrosodi-n-propylamine	400 U	400	72	1	02/22/18 19:09	2/22/18	
N-Nitrosodiphenylamine	400 U	400	180	1	02/22/18 19:09	2/22/18	
Naphthalene	400 U	400	81	1	02/22/18 19:09	2/22/18	
Nitrobenzene	400 U	400	81	1	02/22/18 19:09	2/22/18	
Pentachlorophenol (PCP)	2000 U	2000	140	1	02/22/18 19:09	2/22/18	
Phenanthrene	<b>2800</b>	400	82	1	02/22/18 19:09	2/22/18	
Phenol	400 U	400	87	1	02/22/18 19:09	2/22/18	
Pyrene	<b>3200</b>	400	77	1	02/22/18 19:09	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	102	13 - 128	02/22/18 19:09	
2-Fluorobiphenyl	85	10 - 102	02/22/18 19:09	
2-Fluorophenol	76	16 - 129	02/22/18 19:09	
Nitrobenzene-d5	84	10 - 95	02/22/18 19:09	
Phenol-d6	79	10 - 145	02/22/18 19:09	
Terphenyl-d14	100	16 - 126	02/22/18 19:09	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1100 U	1100	330	3	02/27/18 10:28	2/22/18	
2,3,4,6-Tetrachlorophenol	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
2,4,5-Trichlorophenol	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
2,4,6-Trichlorophenol	1100 U	1100	290	3	02/27/18 10:28	2/22/18	
2,4-Dichlorophenol	1100 U	1100	230	3	02/27/18 10:28	2/22/18	
2,4-Dimethylphenol	1100 U	1100	220	3	02/27/18 10:28	2/22/18	
2,4-Dinitrophenol	5700 U	5700	210	3	02/27/18 10:28	2/22/18	
2,4-Dinitrotoluene	1100 U	1100	290	3	02/27/18 10:28	2/22/18	
2,6-Dinitrotoluene	1100 U	1100	390	3	02/27/18 10:28	2/22/18	
2-Chloronaphthalene	1100 U	1100	250	3	02/27/18 10:28	2/22/18	
2-Chlorophenol	1100 U	1100	270	3	02/27/18 10:28	2/22/18	
2-Methylnaphthalene	<b>500 J</b>	1100	250	3	02/27/18 10:28	2/22/18	
2-Methylphenol	1100 U	1100	270	3	02/27/18 10:28	2/22/18	
2-Nitroaniline	5700 U	5700	320	3	02/27/18 10:28	2/22/18	
2-Nitrophenol	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
3,3'-Dichlorobenzidine	1100 U	1100	340	3	02/27/18 10:28	2/22/18	
3- and 4-Methylphenol Coelution	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
3-Nitroaniline	5700 U	5700	240	3	02/27/18 10:28	2/22/18	
4,6-Dinitro-2-methylphenol	5700 U	5700	240	3	02/27/18 10:28	2/22/18	
4-Bromophenyl Phenyl Ether	1100 U	1100	320	3	02/27/18 10:28	2/22/18	
4-Chloro-3-methylphenol	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
4-Chloroaniline	1100 U	1100	140	3	02/27/18 10:28	2/22/18	
4-Chlorophenyl Phenyl Ether	1100 U	1100	270	3	02/27/18 10:28	2/22/18	
4-Nitroaniline	5700 U	5700	250	3	02/27/18 10:28	2/22/18	
4-Nitrophenol	5700 U	5700	650	3	02/27/18 10:28	2/22/18	
Acenaphthene	<b>960 J</b>	1100	250	3	02/27/18 10:28	2/22/18	
Acenaphthylene	1100 U	1100	230	3	02/27/18 10:28	2/22/18	
Acetophenone	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
Anthracene	<b>3200</b>	1100	220	3	02/27/18 10:28	2/22/18	
Atrazine	1100 U	1100	300	3	02/27/18 10:28	2/22/18	
Benz(a)anthracene	<b>4400</b>	1100	200	3	02/27/18 10:28	2/22/18	
Benzaldehyde	5700 U	5700	270	3	02/27/18 10:28	2/22/18	
Benzo(a)pyrene	<b>3700</b>	1100	230	3	02/27/18 10:28	2/22/18	
Benzo(b)fluoranthene	<b>4400</b>	1100	210	3	02/27/18 10:28	2/22/18	
Benzo(g,h,i)perylene	<b>2300</b>	1100	260	3	02/27/18 10:28	2/22/18	
Benzo(k)fluoranthene	<b>1700</b>	1100	250	3	02/27/18 10:28	2/22/18	
Biphenyl	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
2,2'-Oxybis(1-chloropropane)	1100 U	1100	280	3	02/27/18 10:28	2/22/18	
Bis(2-chloroethoxy)methane	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
Bis(2-chloroethyl) Ether	1100 U	1100	210	3	02/27/18 10:28	2/22/18	
Bis(2-ethylhexyl) Phthalate	1700 U	1700	1600	3	02/27/18 10:28	2/22/18	
Butyl Benzyl Phthalate	1100 U	1100	220	3	02/27/18 10:28	2/22/18	
Caprolactam	1100 U	1100	250	3	02/27/18 10:28	2/22/18	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>1700</b>	1100	280	3	02/27/18 10:28	2/22/18	
Chrysene	<b>4200</b>	1100	220	3	02/27/18 10:28	2/22/18	
Di-n-butyl Phthalate	1100 U	1100	370	3	02/27/18 10:28	2/22/18	
Di-n-octyl Phthalate	1100 U	1100	340	3	02/27/18 10:28	2/22/18	
Dibenz(a,h)anthracene	<b>580 J</b>	1100	200	3	02/27/18 10:28	2/22/18	
Dibenzofuran	<b>1300</b>	1100	230	3	02/27/18 10:28	2/22/18	
Diethyl Phthalate	1100 U	1100	610	3	02/27/18 10:28	2/22/18	
Dimethyl Phthalate	1100 U	1100	310	3	02/27/18 10:28	2/22/18	
Fluoranthene	<b>12000</b>	1100	260	3	02/27/18 10:28	2/22/18	
Fluorene	<b>1400</b>	1100	280	3	02/27/18 10:28	2/22/18	
Hexachlorobenzene	1100 U	1100	260	3	02/27/18 10:28	2/22/18	
Hexachlorobutadiene	1100 U	1100	190	3	02/27/18 10:28	2/22/18	
Hexachlorocyclopentadiene	1100 U	1100	190	3	02/27/18 10:28	2/22/18	
Hexachloroethane	1100 U	1100	200	3	02/27/18 10:28	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>2500</b>	1100	250	3	02/27/18 10:28	2/22/18	
Isophorone	1100 U	1100	240	3	02/27/18 10:28	2/22/18	
N-Nitrosodi-n-propylamine	1100 U	1100	210	3	02/27/18 10:28	2/22/18	
N-Nitrosodiphenylamine	1100 U	1100	500	3	02/27/18 10:28	2/22/18	
Naphthalene	<b>1400</b>	1100	230	3	02/27/18 10:28	2/22/18	
Nitrobenzene	1100 U	1100	230	3	02/27/18 10:28	2/22/18	
Pentachlorophenol (PCP)	5700 U	5700	370	3	02/27/18 10:28	2/22/18	
Phenanthrene	<b>12000</b>	1100	230	3	02/27/18 10:28	2/22/18	
Phenol	1100 U	1100	250	3	02/27/18 10:28	2/22/18	
Pyrene	<b>9400</b>	1100	220	3	02/27/18 10:28	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	87	13 - 128	02/27/18 10:28	
2-Fluorobiphenyl	46	10 - 102	02/27/18 10:28	
2-Fluorophenol	40	16 - 129	02/27/18 10:28	
Nitrobenzene-d5	43	10 - 95	02/27/18 10:28	
Phenol-d6	44	10 - 145	02/27/18 10:28	
Terphenyl-d14	90	16 - 126	02/27/18 10:28	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	770 U	770	230	2	02/22/18 20:04	2/22/18	
2,3,4,6-Tetrachlorophenol	770 U	770	190	2	02/22/18 20:04	2/22/18	
2,4,5-Trichlorophenol	770 U	770	200	2	02/22/18 20:04	2/22/18	
2,4,6-Trichlorophenol	770 U	770	200	2	02/22/18 20:04	2/22/18	
2,4-Dichlorophenol	770 U	770	160	2	02/22/18 20:04	2/22/18	
2,4-Dimethylphenol	770 U	770	150	2	02/22/18 20:04	2/22/18	
2,4-Dinitrophenol	4000 U	4000	150	2	02/22/18 20:04	2/22/18	
2,4-Dinitrotoluene	770 U	770	200	2	02/22/18 20:04	2/22/18	
2,6-Dinitrotoluene	770 U	770	270	2	02/22/18 20:04	2/22/18	
2-Chloronaphthalene	770 U	770	170	2	02/22/18 20:04	2/22/18	
2-Chlorophenol	770 U	770	190	2	02/22/18 20:04	2/22/18	
2-Methylnaphthalene	770 U	770	180	2	02/22/18 20:04	2/22/18	
2-Methylphenol	770 U	770	190	2	02/22/18 20:04	2/22/18	
2-Nitroaniline	4000 U	4000	220	2	02/22/18 20:04	2/22/18	
2-Nitrophenol	770 U	770	180	2	02/22/18 20:04	2/22/18	
3,3'-Dichlorobenzidine	770 U	770	240	2	02/22/18 20:04	2/22/18	
3- and 4-Methylphenol Coelution	770 U	770	200	2	02/22/18 20:04	2/22/18	
3-Nitroaniline	4000 U	4000	170	2	02/22/18 20:04	2/22/18	
4,6-Dinitro-2-methylphenol	4000 U	4000	170	2	02/22/18 20:04	2/22/18	
4-Bromophenyl Phenyl Ether	770 U	770	220	2	02/22/18 20:04	2/22/18	
4-Chloro-3-methylphenol	770 U	770	180	2	02/22/18 20:04	2/22/18	
4-Chloroaniline	770 U	770	92	2	02/22/18 20:04	2/22/18	
4-Chlorophenyl Phenyl Ether	770 U	770	190	2	02/22/18 20:04	2/22/18	
4-Nitroaniline	4000 U	4000	170	2	02/22/18 20:04	2/22/18	
4-Nitrophenol	4000 U	4000	450	2	02/22/18 20:04	2/22/18	
Acenaphthene	770 U	770	170	2	02/22/18 20:04	2/22/18	
Acenaphthylene	770 U	770	160	2	02/22/18 20:04	2/22/18	
Acetophenone	770 U	770	180	2	02/22/18 20:04	2/22/18	
Anthracene	400 J	770	150	2	02/22/18 20:04	2/22/18	
Atrazine	770 U	770	210	2	02/22/18 20:04	2/22/18	
Benz(a)anthracene	930	770	140	2	02/22/18 20:04	2/22/18	
Benzaldehyde	4000 U	4000	190	2	02/22/18 20:04	2/22/18	
Benzo(a)pyrene	1000	770	160	2	02/22/18 20:04	2/22/18	
Benzo(b)fluoranthene	1200	770	140	2	02/22/18 20:04	2/22/18	
Benzo(g,h,i)perylene	540 J	770	180	2	02/22/18 20:04	2/22/18	
Benzo(k)fluoranthene	450 J	770	180	2	02/22/18 20:04	2/22/18	
Biphenyl	770 U	770	180	2	02/22/18 20:04	2/22/18	
2,2'-Oxybis(1-chloropropane)	770 U	770	190	2	02/22/18 20:04	2/22/18	
Bis(2-chloroethoxy)methane	770 U	770	180	2	02/22/18 20:04	2/22/18	
Bis(2-chloroethyl) Ether	770 U	770	140	2	02/22/18 20:04	2/22/18	
Bis(2-ethylhexyl) Phthalate	1200 U	1200	1100	2	02/22/18 20:04	2/22/18	
Butyl Benzyl Phthalate	770 U	770	150	2	02/22/18 20:04	2/22/18	
Caprolactam	770 U	770	180	2	02/22/18 20:04	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	770 U	770	190	2	02/22/18 20:04	2/22/18	
Chrysene	<b>960</b>	770	160	2	02/22/18 20:04	2/22/18	
Di-n-butyl Phthalate	770 U	770	260	2	02/22/18 20:04	2/22/18	
Di-n-octyl Phthalate	770 U	770	240	2	02/22/18 20:04	2/22/18	
Dibenz(a,h)anthracene	770 U	770	140	2	02/22/18 20:04	2/22/18	
Dibenzofuran	770 U	770	160	2	02/22/18 20:04	2/22/18	
Diethyl Phthalate	770 U	770	420	2	02/22/18 20:04	2/22/18	
Dimethyl Phthalate	770 U	770	220	2	02/22/18 20:04	2/22/18	
Fluoranthene	<b>1600</b>	770	190	2	02/22/18 20:04	2/22/18	
Fluorene	770 U	770	200	2	02/22/18 20:04	2/22/18	
Hexachlorobenzene	770 U	770	180	2	02/22/18 20:04	2/22/18	
Hexachlorobutadiene	770 U	770	130	2	02/22/18 20:04	2/22/18	
Hexachlorocyclopentadiene	770 U	770	130	2	02/22/18 20:04	2/22/18	
Hexachloroethane	770 U	770	140	2	02/22/18 20:04	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>590 J</b>	770	170	2	02/22/18 20:04	2/22/18	
Isophorone	770 U	770	170	2	02/22/18 20:04	2/22/18	
N-Nitrosodi-n-propylamine	770 U	770	140	2	02/22/18 20:04	2/22/18	
N-Nitrosodiphenylamine	770 U	770	350	2	02/22/18 20:04	2/22/18	
Naphthalene	770 U	770	160	2	02/22/18 20:04	2/22/18	
Nitrobenzene	770 U	770	160	2	02/22/18 20:04	2/22/18	
Pentachlorophenol (PCP)	4000 U	4000	260	2	02/22/18 20:04	2/22/18	
Phenanthrene	<b>1500</b>	770	160	2	02/22/18 20:04	2/22/18	
Phenol	770 U	770	170	2	02/22/18 20:04	2/22/18	
Pyrene	<b>1600</b>	770	150	2	02/22/18 20:04	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	13 - 128	02/22/18 20:04	
2-Fluorobiphenyl	45	10 - 102	02/22/18 20:04	
2-Fluorophenol	33	16 - 129	02/22/18 20:04	
Nitrobenzene-d5	35	10 - 95	02/22/18 20:04	
Phenol-d6	41	10 - 145	02/22/18 20:04	
Terphenyl-d14	91	16 - 126	02/22/18 20:04	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2000 U	2000	580	5	02/22/18 20:31	2/22/18	
2,3,4,6-Tetrachlorophenol	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
2,4,5-Trichlorophenol	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
2,4,6-Trichlorophenol	2000 U	2000	510	5	02/22/18 20:31	2/22/18	
2,4-Dichlorophenol	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
2,4-Dimethylphenol	2000 U	2000	380	5	02/22/18 20:31	2/22/18	
2,4-Dinitrophenol	10000 U	10000	370	5	02/22/18 20:31	2/22/18	
2,4-Dinitrotoluene	2000 U	2000	520	5	02/22/18 20:31	2/22/18	
2,6-Dinitrotoluene	2000 U	2000	700	5	02/22/18 20:31	2/22/18	
2-Chloronaphthalene	2000 U	2000	440	5	02/22/18 20:31	2/22/18	
2-Chlorophenol	2000 U	2000	480	5	02/22/18 20:31	2/22/18	
2-Methylnaphthalene	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
2-Methylphenol	2000 U	2000	480	5	02/22/18 20:31	2/22/18	
2-Nitroaniline	10000 U	10000	570	5	02/22/18 20:31	2/22/18	
2-Nitrophenol	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
3,3'-Dichlorobenzidine	2000 U	2000	610	5	02/22/18 20:31	2/22/18	
3- and 4-Methylphenol Coelution	2000 U	2000	500	5	02/22/18 20:31	2/22/18	
3-Nitroaniline	10000 U	10000	430	5	02/22/18 20:31	2/22/18	
4,6-Dinitro-2-methylphenol	10000 U	10000	430	5	02/22/18 20:31	2/22/18	
4-Bromophenyl Phenyl Ether	2000 U	2000	560	5	02/22/18 20:31	2/22/18	
4-Chloro-3-methylphenol	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
4-Chloroaniline	2000 U	2000	240	5	02/22/18 20:31	2/22/18	
4-Chlorophenyl Phenyl Ether	2000 U	2000	470	5	02/22/18 20:31	2/22/18	
4-Nitroaniline	10000 U	10000	440	5	02/22/18 20:31	2/22/18	
4-Nitrophenol	10000 U	10000	1200	5	02/22/18 20:31	2/22/18	
Acenaphthene	2000 U	2000	440	5	02/22/18 20:31	2/22/18	
Acenaphthylene	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Acetophenone	2000 U	2000	460	5	02/22/18 20:31	2/22/18	
Anthracene	2000 U	2000	380	5	02/22/18 20:31	2/22/18	
Atrazine	2000 U	2000	540	5	02/22/18 20:31	2/22/18	
Benz(a)anthracene	<b>590 J</b>	2000	350	5	02/22/18 20:31	2/22/18	
Benzaldehyde	10000 U	10000	470	5	02/22/18 20:31	2/22/18	
Benzo(a)pyrene	<b>660 J</b>	2000	400	5	02/22/18 20:31	2/22/18	
Benzo(b)fluoranthene	<b>780 J</b>	2000	360	5	02/22/18 20:31	2/22/18	
Benzo(g,h,i)perylene	<b>480 J</b>	2000	450	5	02/22/18 20:31	2/22/18	
Benzo(k)fluoranthene	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
Biphenyl	2000 U	2000	460	5	02/22/18 20:31	2/22/18	
2,2'-Oxybis(1-chloropropane)	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
Bis(2-chloroethoxy)methane	2000 U	2000	450	5	02/22/18 20:31	2/22/18	
Bis(2-chloroethyl) Ether	2000 U	2000	360	5	02/22/18 20:31	2/22/18	
Bis(2-ethylhexyl) Phthalate	3000 U	3000	2800	5	02/22/18 20:31	2/22/18	
Butyl Benzyl Phthalate	2000 U	2000	380	5	02/22/18 20:31	2/22/18	
Caprolactam	2000 U	2000	440	5	02/22/18 20:31	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	2000 U	2000	490	5	02/22/18 20:31	2/22/18	
Chrysene	<b>630 J</b>	2000	390	5	02/22/18 20:31	2/22/18	
Di-n-butyl Phthalate	2000 U	2000	660	5	02/22/18 20:31	2/22/18	
Di-n-octyl Phthalate	2000 U	2000	600	5	02/22/18 20:31	2/22/18	
Dibenz(a,h)anthracene	2000 U	2000	360	5	02/22/18 20:31	2/22/18	
Dibenzofuran	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Diethyl Phthalate	2000 U	2000	1100	5	02/22/18 20:31	2/22/18	
Dimethyl Phthalate	2000 U	2000	550	5	02/22/18 20:31	2/22/18	
Fluoranthene	<b>1100 J</b>	2000	470	5	02/22/18 20:31	2/22/18	
Fluorene	2000 U	2000	500	5	02/22/18 20:31	2/22/18	
Hexachlorobenzene	2000 U	2000	460	5	02/22/18 20:31	2/22/18	
Hexachlorobutadiene	2000 U	2000	340	5	02/22/18 20:31	2/22/18	
Hexachlorocyclopentadiene	2000 U	2000	330	5	02/22/18 20:31	2/22/18	
Hexachloroethane	2000 U	2000	350	5	02/22/18 20:31	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>460 J</b>	2000	440	5	02/22/18 20:31	2/22/18	
Isophorone	2000 U	2000	430	5	02/22/18 20:31	2/22/18	
N-Nitrosodi-n-propylamine	2000 U	2000	360	5	02/22/18 20:31	2/22/18	
N-Nitrosodiphenylamine	2000 U	2000	880	5	02/22/18 20:31	2/22/18	
Naphthalene	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Nitrobenzene	2000 U	2000	410	5	02/22/18 20:31	2/22/18	
Pentachlorophenol (PCP)	10000 U	10000	660	5	02/22/18 20:31	2/22/18	
Phenanthrene	<b>570 J</b>	2000	410	5	02/22/18 20:31	2/22/18	
Phenol	2000 U	2000	430	5	02/22/18 20:31	2/22/18	
Pyrene	<b>990 J</b>	2000	390	5	02/22/18 20:31	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	91	13 - 128	02/22/18 20:31	
2-Fluorobiphenyl	60	10 - 102	02/22/18 20:31	
2-Fluorophenol	46	16 - 129	02/22/18 20:31	
Nitrobenzene-d5	49	10 - 95	02/22/18 20:31	
Phenol-d6	55	10 - 145	02/22/18 20:31	
Terphenyl-d14	91	16 - 126	02/22/18 20:31	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	810 U	810	240	2	02/22/18 20:59	2/22/18	
2,3,4,6-Tetrachlorophenol	810 U	810	200	2	02/22/18 20:59	2/22/18	
2,4,5-Trichlorophenol	810 U	810	210	2	02/22/18 20:59	2/22/18	
2,4,6-Trichlorophenol	810 U	810	210	2	02/22/18 20:59	2/22/18	
2,4-Dichlorophenol	810 U	810	170	2	02/22/18 20:59	2/22/18	
2,4-Dimethylphenol	810 U	810	160	2	02/22/18 20:59	2/22/18	
2,4-Dinitrophenol	4100 U	4100	160	2	02/22/18 20:59	2/22/18	
2,4-Dinitrotoluene	810 U	810	210	2	02/22/18 20:59	2/22/18	
2,6-Dinitrotoluene	810 U	810	290	2	02/22/18 20:59	2/22/18	
2-Chloronaphthalene	810 U	810	180	2	02/22/18 20:59	2/22/18	
2-Chlorophenol	810 U	810	200	2	02/22/18 20:59	2/22/18	
2-Methylnaphthalene	810 U	810	190	2	02/22/18 20:59	2/22/18	
2-Methylphenol	810 U	810	200	2	02/22/18 20:59	2/22/18	
2-Nitroaniline	4100 U	4100	240	2	02/22/18 20:59	2/22/18	
2-Nitrophenol	810 U	810	190	2	02/22/18 20:59	2/22/18	
3,3'-Dichlorobenzidine	810 U	810	250	2	02/22/18 20:59	2/22/18	
3- and 4-Methylphenol Coelution	810 U	810	210	2	02/22/18 20:59	2/22/18	
3-Nitroaniline	4100 U	4100	180	2	02/22/18 20:59	2/22/18	
4,6-Dinitro-2-methylphenol	4100 U	4100	180	2	02/22/18 20:59	2/22/18	
4-Bromophenyl Phenyl Ether	810 U	810	230	2	02/22/18 20:59	2/22/18	
4-Chloro-3-methylphenol	810 U	810	190	2	02/22/18 20:59	2/22/18	
4-Chloroaniline	810 U	810	96	2	02/22/18 20:59	2/22/18	
4-Chlorophenyl Phenyl Ether	810 U	810	200	2	02/22/18 20:59	2/22/18	
4-Nitroaniline	4100 U	4100	180	2	02/22/18 20:59	2/22/18	
4-Nitrophenol	4100 U	4100	470	2	02/22/18 20:59	2/22/18	
Acenaphthene	810 U	810	180	2	02/22/18 20:59	2/22/18	
Acenaphthylene	<b>280 J</b>	810	170	2	02/22/18 20:59	2/22/18	
Acetophenone	810 U	810	190	2	02/22/18 20:59	2/22/18	
Anthracene	<b>630 J</b>	810	160	2	02/22/18 20:59	2/22/18	
Atrazine	810 U	810	220	2	02/22/18 20:59	2/22/18	
Benz(a)anthracene	<b>3500</b>	810	150	2	02/22/18 20:59	2/22/18	
Benzaldehyde	4100 U	4100	200	2	02/22/18 20:59	2/22/18	
Benzo(a)pyrene	<b>2900</b>	810	170	2	02/22/18 20:59	2/22/18	
Benzo(b)fluoranthene	<b>3500</b>	810	150	2	02/22/18 20:59	2/22/18	
Benzo(g,h,i)perylene	<b>1400</b>	810	190	2	02/22/18 20:59	2/22/18	
Benzo(k)fluoranthene	<b>1300</b>	810	190	2	02/22/18 20:59	2/22/18	
Biphenyl	810 U	810	190	2	02/22/18 20:59	2/22/18	
2,2'-Oxybis(1-chloropropane)	810 U	810	200	2	02/22/18 20:59	2/22/18	
Bis(2-chloroethoxy)methane	810 U	810	190	2	02/22/18 20:59	2/22/18	
Bis(2-chloroethyl) Ether	810 U	810	150	2	02/22/18 20:59	2/22/18	
Bis(2-ethylhexyl) Phthalate	1200 U	1200	1200	2	02/22/18 20:59	2/22/18	
Butyl Benzyl Phthalate	810 U	810	160	2	02/22/18 20:59	2/22/18	
Caprolactam	810 U	810	180	2	02/22/18 20:59	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	810 U	810	200	2	02/22/18 20:59	2/22/18	
Chrysene	<b>3400</b>	810	160	2	02/22/18 20:59	2/22/18	
Di-n-butyl Phthalate	810 U	810	270	2	02/22/18 20:59	2/22/18	
Di-n-octyl Phthalate	810 U	810	250	2	02/22/18 20:59	2/22/18	
Dibenz(a,h)anthracene	<b>430 J</b>	810	150	2	02/22/18 20:59	2/22/18	
Dibenzofuran	810 U	810	170	2	02/22/18 20:59	2/22/18	
Diethyl Phthalate	810 U	810	440	2	02/22/18 20:59	2/22/18	
Dimethyl Phthalate	810 U	810	230	2	02/22/18 20:59	2/22/18	
Fluoranthene	<b>5200</b>	810	190	2	02/22/18 20:59	2/22/18	
Fluorene	810 U	810	210	2	02/22/18 20:59	2/22/18	
Hexachlorobenzene	810 U	810	190	2	02/22/18 20:59	2/22/18	
Hexachlorobutadiene	810 U	810	140	2	02/22/18 20:59	2/22/18	
Hexachlorocyclopentadiene	810 U	810	140	2	02/22/18 20:59	2/22/18	
Hexachloroethane	810 U	810	150	2	02/22/18 20:59	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>1700</b>	810	180	2	02/22/18 20:59	2/22/18	
Isophorone	810 U	810	180	2	02/22/18 20:59	2/22/18	
N-Nitrosodi-n-propylamine	810 U	810	150	2	02/22/18 20:59	2/22/18	
N-Nitrosodiphenylamine	810 U	810	360	2	02/22/18 20:59	2/22/18	
Naphthalene	810 U	810	170	2	02/22/18 20:59	2/22/18	
Nitrobenzene	810 U	810	170	2	02/22/18 20:59	2/22/18	
Pentachlorophenol (PCP)	4100 U	4100	270	2	02/22/18 20:59	2/22/18	
Phenanthrene	<b>2000</b>	810	170	2	02/22/18 20:59	2/22/18	
Phenol	810 U	810	180	2	02/22/18 20:59	2/22/18	
Pyrene	<b>5000</b>	810	160	2	02/22/18 20:59	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	92	13 - 128	02/22/18 20:59	
2-Fluorobiphenyl	45	10 - 102	02/22/18 20:59	
2-Fluorophenol	39	16 - 129	02/22/18 20:59	
Nitrobenzene-d5	41	10 - 95	02/22/18 20:59	
Phenol-d6	44	10 - 145	02/22/18 20:59	
Terphenyl-d14	92	16 - 126	02/22/18 20:59	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2400 U	2400	690	5	02/22/18 21:26	2/22/18	
2,3,4,6-Tetrachlorophenol	2400 U	2400	590	5	02/22/18 21:26	2/22/18	
2,4,5-Trichlorophenol	2400 U	2400	590	5	02/22/18 21:26	2/22/18	
2,4,6-Trichlorophenol	2400 U	2400	610	5	02/22/18 21:26	2/22/18	
2,4-Dichlorophenol	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
2,4-Dimethylphenol	2400 U	2400	450	5	02/22/18 21:26	2/22/18	
2,4-Dinitrophenol	12000 U	12000	450	5	02/22/18 21:26	2/22/18	
2,4-Dinitrotoluene	2400 U	2400	620	5	02/22/18 21:26	2/22/18	
2,6-Dinitrotoluene	2400 U	2400	830	5	02/22/18 21:26	2/22/18	
2-Chloronaphthalene	2400 U	2400	530	5	02/22/18 21:26	2/22/18	
2-Chlorophenol	2400 U	2400	580	5	02/22/18 21:26	2/22/18	
2-Methylnaphthalene	2400 U	2400	530	5	02/22/18 21:26	2/22/18	
2-Methylphenol	2400 U	2400	580	5	02/22/18 21:26	2/22/18	
2-Nitroaniline	12000 U	12000	680	5	02/22/18 21:26	2/22/18	
2-Nitrophenol	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
3,3'-Dichlorobenzidine	2400 U	2400	730	5	02/22/18 21:26	2/22/18	
3- and 4-Methylphenol Coelution	2400 U	2400	600	5	02/22/18 21:26	2/22/18	
3-Nitroaniline	12000 U	12000	510	5	02/22/18 21:26	2/22/18	
4,6-Dinitro-2-methylphenol	12000 U	12000	520	5	02/22/18 21:26	2/22/18	
4-Bromophenyl Phenyl Ether	2400 U	2400	670	5	02/22/18 21:26	2/22/18	
4-Chloro-3-methylphenol	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
4-Chloroaniline	2400 U	2400	290	5	02/22/18 21:26	2/22/18	
4-Chlorophenyl Phenyl Ether	2400 U	2400	570	5	02/22/18 21:26	2/22/18	
4-Nitroaniline	12000 U	12000	520	5	02/22/18 21:26	2/22/18	
4-Nitrophenol	12000 U	12000	1400	5	02/22/18 21:26	2/22/18	
Acenaphthene	2400 U	2400	520	5	02/22/18 21:26	2/22/18	
Acenaphthylene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Acetophenone	2400 U	2400	560	5	02/22/18 21:26	2/22/18	
Anthracene	2400 U	2400	460	5	02/22/18 21:26	2/22/18	
Atrazine	2400 U	2400	640	5	02/22/18 21:26	2/22/18	
Benz(a)anthracene	2400 U	2400	420	5	02/22/18 21:26	2/22/18	
Benzaldehyde	12000 U	12000	560	5	02/22/18 21:26	2/22/18	
Benzo(a)pyrene	2400 U	2400	480	5	02/22/18 21:26	2/22/18	
Benzo(b)fluoranthene	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
Benzo(g,h,i)perylene	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
Benzo(k)fluoranthene	2400 U	2400	530	5	02/22/18 21:26	2/22/18	
Biphenyl	2400 U	2400	560	5	02/22/18 21:26	2/22/18	
2,2'-Oxybis(1-chloropropane)	2400 U	2400	580	5	02/22/18 21:26	2/22/18	
Bis(2-chloroethoxy)methane	2400 U	2400	540	5	02/22/18 21:26	2/22/18	
Bis(2-chloroethyl) Ether	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
Bis(2-ethylhexyl) Phthalate	3600 U	3600	3300	5	02/22/18 21:26	2/22/18	
Butyl Benzyl Phthalate	2400 U	2400	450	5	02/22/18 21:26	2/22/18	
Caprolactam	2400 U	2400	530	5	02/22/18 21:26	2/22/18	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	2400 U	2400	590	5	02/22/18 21:26	2/22/18	
Chrysene	2400 U	2400	470	5	02/22/18 21:26	2/22/18	
Di-n-butyl Phthalate	2400 U	2400	790	5	02/22/18 21:26	2/22/18	
Di-n-octyl Phthalate	2400 U	2400	710	5	02/22/18 21:26	2/22/18	
Dibenz(a,h)anthracene	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
Dibenzofuran	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Diethyl Phthalate	2400 U	2400	1300	5	02/22/18 21:26	2/22/18	
Dimethyl Phthalate	2400 U	2400	650	5	02/22/18 21:26	2/22/18	
Fluoranthene	2400 U	2400	560	5	02/22/18 21:26	2/22/18	
Fluorene	2400 U	2400	600	5	02/22/18 21:26	2/22/18	
Hexachlorobenzene	2400 U	2400	550	5	02/22/18 21:26	2/22/18	
Hexachlorobutadiene	2400 U	2400	400	5	02/22/18 21:26	2/22/18	
Hexachlorocyclopentadiene	2400 U	2400	400	5	02/22/18 21:26	2/22/18	
Hexachloroethane	2400 U	2400	420	5	02/22/18 21:26	2/22/18	
Indeno(1,2,3-cd)pyrene	2400 U	2400	520	5	02/22/18 21:26	2/22/18	
Isophorone	2400 U	2400	510	5	02/22/18 21:26	2/22/18	
N-Nitrosodi-n-propylamine	2400 U	2400	430	5	02/22/18 21:26	2/22/18	
N-Nitrosodiphenylamine	2400 U	2400	1100	5	02/22/18 21:26	2/22/18	
Naphthalene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Nitrobenzene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Pentachlorophenol (PCP)	12000 U	12000	790	5	02/22/18 21:26	2/22/18	
Phenanthrene	2400 U	2400	490	5	02/22/18 21:26	2/22/18	
Phenol	2400 U	2400	520	5	02/22/18 21:26	2/22/18	
Pyrene	2400 U	2400	460	5	02/22/18 21:26	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	55	13 - 128	02/22/18 21:26	
2-Fluorobiphenyl	52	10 - 102	02/22/18 21:26	
2-Fluorophenol	35	16 - 129	02/22/18 21:26	
Nitrobenzene-d5	47	10 - 95	02/22/18 21:26	
Phenol-d6	41	10 - 145	02/22/18 21:26	
Terphenyl-d14	67	16 - 126	02/22/18 21:26	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	110	1	02/22/18 21:54	2/22/18	
2,3,4,6-Tetrachlorophenol	380 U	380	94	1	02/22/18 21:54	2/22/18	
2,4,5-Trichlorophenol	380 U	380	95	1	02/22/18 21:54	2/22/18	
2,4,6-Trichlorophenol	380 U	380	98	1	02/22/18 21:54	2/22/18	
2,4-Dichlorophenol	380 U	380	78	1	02/22/18 21:54	2/22/18	
2,4-Dimethylphenol	380 U	380	72	1	02/22/18 21:54	2/22/18	
2,4-Dinitrophenol	1900 U	1900	71	1	02/22/18 21:54	2/22/18	
2,4-Dinitrotoluene	380 U	380	99	1	02/22/18 21:54	2/22/18	
2,6-Dinitrotoluene	380 U	380	140	1	02/22/18 21:54	2/22/18	
2-Chloronaphthalene	380 U	380	84	1	02/22/18 21:54	2/22/18	
2-Chlorophenol	380 U	380	92	1	02/22/18 21:54	2/22/18	
2-Methylnaphthalene	380 U	380	85	1	02/22/18 21:54	2/22/18	
2-Methylphenol	380 U	380	92	1	02/22/18 21:54	2/22/18	
2-Nitroaniline	1900 U	1900	110	1	02/22/18 21:54	2/22/18	
2-Nitrophenol	380 U	380	86	1	02/22/18 21:54	2/22/18	
3,3'-Dichlorobenzidine	380 U	380	120	1	02/22/18 21:54	2/22/18	
3- and 4-Methylphenol Coelution	380 U	380	96	1	02/22/18 21:54	2/22/18	
3-Nitroaniline	1900 U	1900	82	1	02/22/18 21:54	2/22/18	
4,6-Dinitro-2-methylphenol	1900 U	1900	82	1	02/22/18 21:54	2/22/18	
4-Bromophenyl Phenyl Ether	380 U	380	110	1	02/22/18 21:54	2/22/18	
4-Chloro-3-methylphenol	380 U	380	87	1	02/22/18 21:54	2/22/18	
4-Chloroaniline	380 U	380	46	1	02/22/18 21:54	2/22/18	
4-Chlorophenyl Phenyl Ether	380 U	380	90	1	02/22/18 21:54	2/22/18	
4-Nitroaniline	1900 U	1900	84	1	02/22/18 21:54	2/22/18	
4-Nitrophenol	1900 U	1900	220	1	02/22/18 21:54	2/22/18	
Acenaphthene	380 U	380	84	1	02/22/18 21:54	2/22/18	
Acenaphthylene	380 U	380	77	1	02/22/18 21:54	2/22/18	
Acetophenone	380 U	380	89	1	02/22/18 21:54	2/22/18	
Anthracene	380 U	380	73	1	02/22/18 21:54	2/22/18	
Atrazine	380 U	380	110	1	02/22/18 21:54	2/22/18	
Benz(a)anthracene	380 U	380	66	1	02/22/18 21:54	2/22/18	
Benzaldehyde	1900 U	1900	90	1	02/22/18 21:54	2/22/18	
Benzo(a)pyrene	380 U	380	76	1	02/22/18 21:54	2/22/18	
Benzo(b)fluoranthene	380 U	380	69	1	02/22/18 21:54	2/22/18	
Benzo(g,h,i)perylene	380 U	380	86	1	02/22/18 21:54	2/22/18	
Benzo(k)fluoranthene	380 U	380	85	1	02/22/18 21:54	2/22/18	
Biphenyl	380 U	380	89	1	02/22/18 21:54	2/22/18	
2,2'-Oxybis(1-chloropropane)	380 U	380	93	1	02/22/18 21:54	2/22/18	
Bis(2-chloroethoxy)methane	380 U	380	87	1	02/22/18 21:54	2/22/18	
Bis(2-chloroethyl) Ether	380 U	380	69	1	02/22/18 21:54	2/22/18	
Bis(2-ethylhexyl) Phthalate	570 U	570	530	1	02/22/18 21:54	2/22/18	
Butyl Benzyl Phthalate	380 U	380	72	1	02/22/18 21:54	2/22/18	
Caprolactam	380 U	380	84	1	02/22/18 21:54	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:40  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	380 U	380	94	1	02/22/18 21:54	2/22/18	
Chrysene	380 U	380	75	1	02/22/18 21:54	2/22/18	
Di-n-butyl Phthalate	380 U	380	130	1	02/22/18 21:54	2/22/18	
Di-n-octyl Phthalate	380 U	380	120	1	02/22/18 21:54	2/22/18	
Dibenz(a,h)anthracene	380 U	380	69	1	02/22/18 21:54	2/22/18	
Dibenzofuran	380 U	380	78	1	02/22/18 21:54	2/22/18	
Diethyl Phthalate	380 U	380	210	1	02/22/18 21:54	2/22/18	
Dimethyl Phthalate	380 U	380	110	1	02/22/18 21:54	2/22/18	
Fluoranthene	380 U	380	89	1	02/22/18 21:54	2/22/18	
Fluorene	380 U	380	95	1	02/22/18 21:54	2/22/18	
Hexachlorobenzene	380 U	380	88	1	02/22/18 21:54	2/22/18	
Hexachlorobutadiene	380 U	380	64	1	02/22/18 21:54	2/22/18	
Hexachlorocyclopentadiene	380 U	380	63	1	02/22/18 21:54	2/22/18	
Hexachloroethane	380 U	380	66	1	02/22/18 21:54	2/22/18	
Indeno(1,2,3-cd)pyrene	380 U	380	84	1	02/22/18 21:54	2/22/18	
Isophorone	380 U	380	82	1	02/22/18 21:54	2/22/18	
N-Nitrosodi-n-propylamine	380 U	380	69	1	02/22/18 21:54	2/22/18	
N-Nitrosodiphenylamine	380 U	380	170	1	02/22/18 21:54	2/22/18	
Naphthalene	380 U	380	78	1	02/22/18 21:54	2/22/18	
Nitrobenzene	380 U	380	78	1	02/22/18 21:54	2/22/18	
Pentachlorophenol (PCP)	1900 U	1900	130	1	02/22/18 21:54	2/22/18	
Phenanthrene	380 U	380	79	1	02/22/18 21:54	2/22/18	
Phenol	380 U	380	83	1	02/22/18 21:54	2/22/18	
Pyrene	380 U	380	74	1	02/22/18 21:54	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	13 - 128	02/22/18 21:54	
2-Fluorobiphenyl	25	10 - 102	02/22/18 21:54	
2-Fluorophenol	17	16 - 129	02/22/18 21:54	
Nitrobenzene-d5	19	10 - 95	02/22/18 21:54	
Phenol-d6	21	10 - 145	02/22/18 21:54	
Terphenyl-d14	98	16 - 126	02/22/18 21:54	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 09:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	430 U	430	130	1	02/22/18 22:21	2/22/18	
2,3,4,6-Tetrachlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2,4,5-Trichlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2,4,6-Trichlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2,4-Dichlorophenol	430 U	430	88	1	02/22/18 22:21	2/22/18	
2,4-Dimethylphenol	430 U	430	82	1	02/22/18 22:21	2/22/18	
2,4-Dinitrophenol	2200 U	2200	80	1	02/22/18 22:21	2/22/18	
2,4-Dinitrotoluene	430 U	430	120	1	02/22/18 22:21	2/22/18	
2,6-Dinitrotoluene	430 U	430	150	1	02/22/18 22:21	2/22/18	
2-Chloronaphthalene	430 U	430	95	1	02/22/18 22:21	2/22/18	
2-Chlorophenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2-Methylnaphthalene	430 U	430	96	1	02/22/18 22:21	2/22/18	
2-Methylphenol	430 U	430	110	1	02/22/18 22:21	2/22/18	
2-Nitroaniline	2200 U	2200	130	1	02/22/18 22:21	2/22/18	
2-Nitrophenol	430 U	430	97	1	02/22/18 22:21	2/22/18	
3,3'-Dichlorobenzidine	430 U	430	140	1	02/22/18 22:21	2/22/18	
3- and 4-Methylphenol Coelution	430 U	430	110	1	02/22/18 22:21	2/22/18	
3-Nitroaniline	2200 U	2200	93	1	02/22/18 22:21	2/22/18	
4,6-Dinitro-2-methylphenol	2200 U	2200	93	1	02/22/18 22:21	2/22/18	
4-Bromophenyl Phenyl Ether	430 U	430	130	1	02/22/18 22:21	2/22/18	
4-Chloro-3-methylphenol	430 U	430	97	1	02/22/18 22:21	2/22/18	
4-Chloroaniline	430 U	430	51	1	02/22/18 22:21	2/22/18	
4-Chlorophenyl Phenyl Ether	430 U	430	110	1	02/22/18 22:21	2/22/18	
4-Nitroaniline	2200 U	2200	94	1	02/22/18 22:21	2/22/18	
4-Nitrophenol	2200 U	2200	250	1	02/22/18 22:21	2/22/18	
Acenaphthene	430 U	430	94	1	02/22/18 22:21	2/22/18	
Acenaphthylene	430 U	430	87	1	02/22/18 22:21	2/22/18	
Acetophenone	430 U	430	100	1	02/22/18 22:21	2/22/18	
Anthracene	<b>290 J</b>	430	83	1	02/22/18 22:21	2/22/18	
Atrazine	430 U	430	120	1	02/22/18 22:21	2/22/18	
Benz(a)anthracene	<b>1000</b>	430	75	1	02/22/18 22:21	2/22/18	
Benzaldehyde	2200 U	2200	110	1	02/22/18 22:21	2/22/18	
Benzo(a)pyrene	<b>1400</b>	430	86	1	02/22/18 22:21	2/22/18	
Benzo(b)fluoranthene	<b>1700</b>	430	78	1	02/22/18 22:21	2/22/18	
Benzo(g,h,i)perylene	<b>1000</b>	430	97	1	02/22/18 22:21	2/22/18	
Benzo(k)fluoranthene	<b>590</b>	430	96	1	02/22/18 22:21	2/22/18	
Biphenyl	430 U	430	100	1	02/22/18 22:21	2/22/18	
2,2'-Oxybis(1-chloropropane)	430 U	430	110	1	02/22/18 22:21	2/22/18	
Bis(2-chloroethoxy)methane	430 U	430	98	1	02/22/18 22:21	2/22/18	
Bis(2-chloroethyl) Ether	430 U	430	78	1	02/22/18 22:21	2/22/18	
Bis(2-ethylhexyl) Phthalate	650 U	650	600	1	02/22/18 22:21	2/22/18	
Butyl Benzyl Phthalate	430 U	430	82	1	02/22/18 22:21	2/22/18	
Caprolactam	430 U	430	95	1	02/22/18 22:21	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 09:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	430 U	430	110	1	02/22/18 22:21	2/22/18	
Chrysene	<b>1100</b>	430	84	1	02/22/18 22:21	2/22/18	
Di-n-butyl Phthalate	430 U	430	150	1	02/22/18 22:21	2/22/18	
Di-n-octyl Phthalate	430 U	430	130	1	02/22/18 22:21	2/22/18	
Dibenz(a,h)anthracene	<b>220 J</b>	430	78	1	02/22/18 22:21	2/22/18	
Dibenzofuran	<b>130 J</b>	430	87	1	02/22/18 22:21	2/22/18	
Diethyl Phthalate	430 U	430	240	1	02/22/18 22:21	2/22/18	
Dimethyl Phthalate	430 U	430	120	1	02/22/18 22:21	2/22/18	
Fluoranthene	<b>1700</b>	430	100	1	02/22/18 22:21	2/22/18	
Fluorene	430 U	430	110	1	02/22/18 22:21	2/22/18	
Hexachlorobenzene	430 U	430	100	1	02/22/18 22:21	2/22/18	
Hexachlorobutadiene	430 U	430	72	1	02/22/18 22:21	2/22/18	
Hexachlorocyclopentadiene	430 U	430	71	1	02/22/18 22:21	2/22/18	
Hexachloroethane	430 U	430	75	1	02/22/18 22:21	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>1100</b>	430	94	1	02/22/18 22:21	2/22/18	
Isophorone	430 U	430	92	1	02/22/18 22:21	2/22/18	
N-Nitrosodi-n-propylamine	430 U	430	78	1	02/22/18 22:21	2/22/18	
N-Nitrosodiphenylamine	430 U	430	190	1	02/22/18 22:21	2/22/18	
Naphthalene	<b>120 J</b>	430	88	1	02/22/18 22:21	2/22/18	
Nitrobenzene	430 U	430	88	1	02/22/18 22:21	2/22/18	
Pentachlorophenol (PCP)	2200 U	2200	150	1	02/22/18 22:21	2/22/18	
Phenanthrene	<b>1100</b>	430	89	1	02/22/18 22:21	2/22/18	
Phenol	430 U	430	94	1	02/22/18 22:21	2/22/18	
Pyrene	<b>1600</b>	430	83	1	02/22/18 22:21	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	98	13 - 128	02/22/18 22:21	
2-Fluorobiphenyl	43	10 - 102	02/22/18 22:21	
2-Fluorophenol	35	16 - 129	02/22/18 22:21	
Nitrobenzene-d5	34	10 - 95	02/22/18 22:21	
Phenol-d6	42	10 - 145	02/22/18 22:21	
Terphenyl-d14	99	16 - 126	02/22/18 22:21	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 11:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	380 U	380	110	1	02/22/18 22:49	2/22/18	
2,3,4,6-Tetrachlorophenol	380 U	380	94	1	02/22/18 22:49	2/22/18	
2,4,5-Trichlorophenol	380 U	380	94	1	02/22/18 22:49	2/22/18	
2,4,6-Trichlorophenol	380 U	380	98	1	02/22/18 22:49	2/22/18	
2,4-Dichlorophenol	380 U	380	78	1	02/22/18 22:49	2/22/18	
2,4-Dimethylphenol	380 U	380	72	1	02/22/18 22:49	2/22/18	
2,4-Dinitrophenol	1900 U	1900	71	1	02/22/18 22:49	2/22/18	
2,4-Dinitrotoluene	380 U	380	99	1	02/22/18 22:49	2/22/18	
2,6-Dinitrotoluene	380 U	380	140	1	02/22/18 22:49	2/22/18	
2-Chloronaphthalene	380 U	380	84	1	02/22/18 22:49	2/22/18	
2-Chlorophenol	380 U	380	92	1	02/22/18 22:49	2/22/18	
2-Methylnaphthalene	380 U	380	85	1	02/22/18 22:49	2/22/18	
2-Methylphenol	380 U	380	92	1	02/22/18 22:49	2/22/18	
2-Nitroaniline	1900 U	1900	110	1	02/22/18 22:49	2/22/18	
2-Nitrophenol	380 U	380	86	1	02/22/18 22:49	2/22/18	
3,3'-Dichlorobenzidine	380 U	380	120	1	02/22/18 22:49	2/22/18	
3- and 4-Methylphenol Coelution	380 U	380	95	1	02/22/18 22:49	2/22/18	
3-Nitroaniline	1900 U	1900	82	1	02/22/18 22:49	2/22/18	
4,6-Dinitro-2-methylphenol	1900 U	1900	82	1	02/22/18 22:49	2/22/18	
4-Bromophenyl Phenyl Ether	380 U	380	110	1	02/22/18 22:49	2/22/18	
4-Chloro-3-methylphenol	380 U	380	86	1	02/22/18 22:49	2/22/18	
4-Chloroaniline	380 U	380	46	1	02/22/18 22:49	2/22/18	
4-Chlorophenyl Phenyl Ether	380 U	380	90	1	02/22/18 22:49	2/22/18	
4-Nitroaniline	1900 U	1900	84	1	02/22/18 22:49	2/22/18	
4-Nitrophenol	1900 U	1900	220	1	02/22/18 22:49	2/22/18	
Acenaphthene	380 U	380	84	1	02/22/18 22:49	2/22/18	
Acenaphthylene	130 J	380	77	1	02/22/18 22:49	2/22/18	
Acetophenone	380 U	380	88	1	02/22/18 22:49	2/22/18	
Anthracene	370 J	380	73	1	02/22/18 22:49	2/22/18	
Atrazine	380 U	380	110	1	02/22/18 22:49	2/22/18	
Benz(a)anthracene	950	380	66	1	02/22/18 22:49	2/22/18	
Benzaldehyde	1900 U	1900	90	1	02/22/18 22:49	2/22/18	
Benzo(a)pyrene	920	380	76	1	02/22/18 22:49	2/22/18	
Benzo(b)fluoranthene	1200	380	69	1	02/22/18 22:49	2/22/18	
Benzo(g,h,i)perylene	480	380	86	1	02/22/18 22:49	2/22/18	
Benzo(k)fluoranthene	500	380	85	1	02/22/18 22:49	2/22/18	
Biphenyl	380 U	380	89	1	02/22/18 22:49	2/22/18	
2,2'-Oxybis(1-chloropropane)	380 U	380	93	1	02/22/18 22:49	2/22/18	
Bis(2-chloroethoxy)methane	380 U	380	87	1	02/22/18 22:49	2/22/18	
Bis(2-chloroethyl) Ether	380 U	380	69	1	02/22/18 22:49	2/22/18	
Bis(2-ethylhexyl) Phthalate	570 U	570	530	1	02/22/18 22:49	2/22/18	
Butyl Benzyl Phthalate	470	380	72	1	02/22/18 22:49	2/22/18	
Caprolactam	380 U	380	84	1	02/22/18 22:49	2/22/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 11:00  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	140 J	380	94	1	02/22/18 22:49	2/22/18	
Chrysene	980	380	75	1	02/22/18 22:49	2/22/18	
Di-n-butyl Phthalate	380 U	380	130	1	02/22/18 22:49	2/22/18	
Di-n-octyl Phthalate	380 U	380	120	1	02/22/18 22:49	2/22/18	
Dibenz(a,h)anthracene	130 J	380	69	1	02/22/18 22:49	2/22/18	
Dibenzofuran	380 U	380	78	1	02/22/18 22:49	2/22/18	
Diethyl Phthalate	380 U	380	210	1	02/22/18 22:49	2/22/18	
Dimethyl Phthalate	380 U	380	110	1	02/22/18 22:49	2/22/18	
Fluoranthene	1900	380	89	1	02/22/18 22:49	2/22/18	
Fluorene	110 J	380	95	1	02/22/18 22:49	2/22/18	
Hexachlorobenzene	380 U	380	88	1	02/22/18 22:49	2/22/18	
Hexachlorobutadiene	380 U	380	64	1	02/22/18 22:49	2/22/18	
Hexachlorocyclopentadiene	380 U	380	63	1	02/22/18 22:49	2/22/18	
Hexachloroethane	380 U	380	66	1	02/22/18 22:49	2/22/18	
Indeno(1,2,3-cd)pyrene	570	380	84	1	02/22/18 22:49	2/22/18	
Isophorone	380 U	380	82	1	02/22/18 22:49	2/22/18	
N-Nitrosodi-n-propylamine	380 U	380	69	1	02/22/18 22:49	2/22/18	
N-Nitrosodiphenylamine	380 U	380	170	1	02/22/18 22:49	2/22/18	
Naphthalene	380 U	380	78	1	02/22/18 22:49	2/22/18	
Nitrobenzene	380 U	380	78	1	02/22/18 22:49	2/22/18	
Pentachlorophenol (PCP)	1900 U	1900	130	1	02/22/18 22:49	2/22/18	
Phenanthrene	1200	380	79	1	02/22/18 22:49	2/22/18	
Phenol	380 U	380	83	1	02/22/18 22:49	2/22/18	
Pyrene	1600	380	74	1	02/22/18 22:49	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	13 - 128	02/22/18 22:49	
2-Fluorobiphenyl	38	10 - 102	02/22/18 22:49	
2-Fluorophenol	36	16 - 129	02/22/18 22:49	
Nitrobenzene-d5	39	10 - 95	02/22/18 22:49	
Phenol-d6	38	10 - 145	02/22/18 22:49	
Terphenyl-d14	96	16 - 126	02/22/18 22:49	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 12:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1900 U	1900	560	5	02/22/18 23:17	2/22/18	
2,3,4,6-Tetrachlorophenol	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
2,4,5-Trichlorophenol	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
2,4,6-Trichlorophenol	1900 U	1900	500	5	02/22/18 23:17	2/22/18	
2,4-Dichlorophenol	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
2,4-Dimethylphenol	1900 U	1900	370	5	02/22/18 23:17	2/22/18	
2,4-Dinitrophenol	9800 U	9800	360	5	02/22/18 23:17	2/22/18	
2,4-Dinitrotoluene	1900 U	1900	500	5	02/22/18 23:17	2/22/18	
2,6-Dinitrotoluene	1900 U	1900	670	5	02/22/18 23:17	2/22/18	
2-Chloronaphthalene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
2-Chlorophenol	1900 U	1900	470	5	02/22/18 23:17	2/22/18	
2-Methylnaphthalene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
2-Methylphenol	1900 U	1900	470	5	02/22/18 23:17	2/22/18	
2-Nitroaniline	9800 U	9800	550	5	02/22/18 23:17	2/22/18	
2-Nitrophenol	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
3,3'-Dichlorobenzidine	1900 U	1900	590	5	02/22/18 23:17	2/22/18	
3- and 4-Methylphenol Coelution	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
3-Nitroaniline	9800 U	9800	420	5	02/22/18 23:17	2/22/18	
4,6-Dinitro-2-methylphenol	9800 U	9800	420	5	02/22/18 23:17	2/22/18	
4-Bromophenyl Phenyl Ether	1900 U	1900	550	5	02/22/18 23:17	2/22/18	
4-Chloro-3-methylphenol	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
4-Chloroaniline	1900 U	1900	230	5	02/22/18 23:17	2/22/18	
4-Chlorophenyl Phenyl Ether	1900 U	1900	460	5	02/22/18 23:17	2/22/18	
4-Nitroaniline	9800 U	9800	420	5	02/22/18 23:17	2/22/18	
4-Nitrophenol	9800 U	9800	1200	5	02/22/18 23:17	2/22/18	
Acenaphthene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
Acenaphthylene	1900 U	1900	390	5	02/22/18 23:17	2/22/18	
Acetophenone	1900 U	1900	450	5	02/22/18 23:17	2/22/18	
Anthracene	1900 U	1900	370	5	02/22/18 23:17	2/22/18	
Atrazine	1900 U	1900	520	5	02/22/18 23:17	2/22/18	
Benz(a)anthracene	<b>490 J</b>	1900	340	5	02/22/18 23:17	2/22/18	
Benzaldehyde	9800 U	9800	460	5	02/22/18 23:17	2/22/18	
Benzo(a)pyrene	<b>590 J</b>	1900	390	5	02/22/18 23:17	2/22/18	
Benzo(b)fluoranthene	<b>740 J</b>	1900	350	5	02/22/18 23:17	2/22/18	
Benzo(g,h,i)perylene	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
Benzo(k)fluoranthene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
Biphenyl	1900 U	1900	450	5	02/22/18 23:17	2/22/18	
2,2'-Oxybis(1-chloropropane)	1900 U	1900	470	5	02/22/18 23:17	2/22/18	
Bis(2-chloroethoxy)methane	1900 U	1900	440	5	02/22/18 23:17	2/22/18	
Bis(2-chloroethyl) Ether	1900 U	1900	350	5	02/22/18 23:17	2/22/18	
Bis(2-ethylhexyl) Phthalate	2900 U	2900	2700	5	02/22/18 23:17	2/22/18	
Butyl Benzyl Phthalate	1900 U	1900	370	5	02/22/18 23:17	2/22/18	
Caprolactam	1900 U	1900	430	5	02/22/18 23:17	2/22/18	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 12:28  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
Chrysene	<b>480 J</b>	1900	380	5	02/22/18 23:17	2/22/18	
Di-n-butyl Phthalate	1900 U	1900	640	5	02/22/18 23:17	2/22/18	
Di-n-octyl Phthalate	1900 U	1900	580	5	02/22/18 23:17	2/22/18	
Dibenz(a,h)anthracene	1900 U	1900	350	5	02/22/18 23:17	2/22/18	
Dibenzofuran	1900 U	1900	390	5	02/22/18 23:17	2/22/18	
Diethyl Phthalate	1900 U	1900	1100	5	02/22/18 23:17	2/22/18	
Dimethyl Phthalate	1900 U	1900	530	5	02/22/18 23:17	2/22/18	
Fluoranthene	<b>790 J</b>	1900	450	5	02/22/18 23:17	2/22/18	
Fluorene	1900 U	1900	480	5	02/22/18 23:17	2/22/18	
Hexachlorobenzene	1900 U	1900	450	5	02/22/18 23:17	2/22/18	
Hexachlorobutadiene	1900 U	1900	330	5	02/22/18 23:17	2/22/18	
Hexachlorocyclopentadiene	1900 U	1900	320	5	02/22/18 23:17	2/22/18	
Hexachloroethane	1900 U	1900	340	5	02/22/18 23:17	2/22/18	
Indeno(1,2,3-cd)pyrene	1900 U	1900	430	5	02/22/18 23:17	2/22/18	
Isophorone	1900 U	1900	420	5	02/22/18 23:17	2/22/18	
N-Nitrosodi-n-propylamine	1900 U	1900	350	5	02/22/18 23:17	2/22/18	
N-Nitrosodiphenylamine	1900 U	1900	860	5	02/22/18 23:17	2/22/18	
Naphthalene	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
Nitrobenzene	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
Pentachlorophenol (PCP)	9800 U	9800	640	5	02/22/18 23:17	2/22/18	
Phenanthrene	1900 U	1900	400	5	02/22/18 23:17	2/22/18	
Phenol	1900 U	1900	420	5	02/22/18 23:17	2/22/18	
Pyrene	<b>730 J</b>	1900	380	5	02/22/18 23:17	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	86	13 - 128	02/22/18 23:17	
2-Fluorobiphenyl	57	10 - 102	02/22/18 23:17	
2-Fluorophenol	48	16 - 129	02/22/18 23:17	
Nitrobenzene-d5	46	10 - 95	02/22/18 23:17	
Phenol-d6	55	10 - 145	02/22/18 23:17	
Terphenyl-d14	80	16 - 126	02/22/18 23:17	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 13:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	900 U	900	270	2	02/27/18 10:56	2/22/18	
2,3,4,6-Tetrachlorophenol	900 U	900	230	2	02/27/18 10:56	2/22/18	
2,4,5-Trichlorophenol	900 U	900	230	2	02/27/18 10:56	2/22/18	
2,4,6-Trichlorophenol	900 U	900	240	2	02/27/18 10:56	2/22/18	
2,4-Dichlorophenol	900 U	900	190	2	02/27/18 10:56	2/22/18	
2,4-Dimethylphenol	900 U	900	180	2	02/27/18 10:56	2/22/18	
2,4-Dinitrophenol	4700 U	4700	170	2	02/27/18 10:56	2/22/18	
2,4-Dinitrotoluene	900 U	900	240	2	02/27/18 10:56	2/22/18	
2,6-Dinitrotoluene	900 U	900	320	2	02/27/18 10:56	2/22/18	
2-Chloronaphthalene	900 U	900	200	2	02/27/18 10:56	2/22/18	
2-Chlorophenol	900 U	900	220	2	02/27/18 10:56	2/22/18	
2-Methylnaphthalene	900 U	900	210	2	02/27/18 10:56	2/22/18	
2-Methylphenol	900 U	900	220	2	02/27/18 10:56	2/22/18	
2-Nitroaniline	4700 U	4700	260	2	02/27/18 10:56	2/22/18	
2-Nitrophenol	900 U	900	210	2	02/27/18 10:56	2/22/18	
3,3'-Dichlorobenzidine	900 U	900	280	2	02/27/18 10:56	2/22/18	
3- and 4-Methylphenol Coelution	900 U	900	230	2	02/27/18 10:56	2/22/18	
3-Nitroaniline	4700 U	4700	200	2	02/27/18 10:56	2/22/18	
4,6-Dinitro-2-methylphenol	4700 U	4700	200	2	02/27/18 10:56	2/22/18	
4-Bromophenyl Phenyl Ether	900 U	900	260	2	02/27/18 10:56	2/22/18	
4-Chloro-3-methylphenol	900 U	900	210	2	02/27/18 10:56	2/22/18	
4-Chloroaniline	900 U	900	110	2	02/27/18 10:56	2/22/18	
4-Chlorophenyl Phenyl Ether	900 U	900	220	2	02/27/18 10:56	2/22/18	
4-Nitroaniline	4700 U	4700	200	2	02/27/18 10:56	2/22/18	
4-Nitrophenol	4700 U	4700	530	2	02/27/18 10:56	2/22/18	
Acenaphthene	900 U	900	200	2	02/27/18 10:56	2/22/18	
Acenaphthylene	760 J	900	190	2	02/27/18 10:56	2/22/18	
Acetophenone	900 U	900	220	2	02/27/18 10:56	2/22/18	
Anthracene	2300	900	180	2	02/27/18 10:56	2/22/18	
Atrazine	900 U	900	250	2	02/27/18 10:56	2/22/18	
Benz(a)anthracene	4000	900	160	2	02/27/18 10:56	2/22/18	
Benzaldehyde	4700 U	4700	220	2	02/27/18 10:56	2/22/18	
Benzo(a)pyrene	3500	900	190	2	02/27/18 10:56	2/22/18	
Benzo(b)fluoranthene	3600	900	170	2	02/27/18 10:56	2/22/18	
Benzo(g,h,i)perylene	1700	900	210	2	02/27/18 10:56	2/22/18	
Benzo(k)fluoranthene	1500	900	210	2	02/27/18 10:56	2/22/18	
Biphenyl	900 U	900	220	2	02/27/18 10:56	2/22/18	
2,2'-Oxybis(1-chloropropane)	900 U	900	230	2	02/27/18 10:56	2/22/18	
Bis(2-chloroethoxy)methane	900 U	900	210	2	02/27/18 10:56	2/22/18	
Bis(2-chloroethyl) Ether	900 U	900	170	2	02/27/18 10:56	2/22/18	
Bis(2-ethylhexyl) Phthalate	1400 U	1400	1300	2	02/27/18 10:56	2/22/18	
Butyl Benzyl Phthalate	900 U	900	180	2	02/27/18 10:56	2/22/18	
Caprolactam	900 U	900	210	2	02/27/18 10:56	2/22/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 13:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>460 J</b>	900	230	2	02/27/18 10:56	2/22/18	
Chrysene	<b>3500</b>	900	180	2	02/27/18 10:56	2/22/18	
Di-n-butyl Phthalate	900 U	900	310	2	02/27/18 10:56	2/22/18	
Di-n-octyl Phthalate	900 U	900	280	2	02/27/18 10:56	2/22/18	
Dibenz(a,h)anthracene	<b>530 J</b>	900	170	2	02/27/18 10:56	2/22/18	
Dibenzofuran	<b>500 J</b>	900	190	2	02/27/18 10:56	2/22/18	
Diethyl Phthalate	900 U	900	500	2	02/27/18 10:56	2/22/18	
Dimethyl Phthalate	900 U	900	250	2	02/27/18 10:56	2/22/18	
Fluoranthene	<b>8700</b>	900	220	2	02/27/18 10:56	2/22/18	
Fluorene	<b>930</b>	900	230	2	02/27/18 10:56	2/22/18	
Hexachlorobenzene	900 U	900	220	2	02/27/18 10:56	2/22/18	
Hexachlorobutadiene	900 U	900	160	2	02/27/18 10:56	2/22/18	
Hexachlorocyclopentadiene	900 U	900	150	2	02/27/18 10:56	2/22/18	
Hexachloroethane	900 U	900	160	2	02/27/18 10:56	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>2300</b>	900	200	2	02/27/18 10:56	2/22/18	
Isophorone	900 U	900	200	2	02/27/18 10:56	2/22/18	
N-Nitrosodi-n-propylamine	900 U	900	170	2	02/27/18 10:56	2/22/18	
N-Nitrosodiphenylamine	900 U	900	410	2	02/27/18 10:56	2/22/18	
Naphthalene	900 U	900	190	2	02/27/18 10:56	2/22/18	
Nitrobenzene	900 U	900	190	2	02/27/18 10:56	2/22/18	
Pentachlorophenol (PCP)	4700 U	4700	300	2	02/27/18 10:56	2/22/18	
Phenanthrene	<b>7700</b>	900	190	2	02/27/18 10:56	2/22/18	
Phenol	900 U	900	200	2	02/27/18 10:56	2/22/18	
Pyrene	<b>7000</b>	900	180	2	02/27/18 10:56	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	85	13 - 128	02/27/18 10:56	
2-Fluorobiphenyl	45	10 - 102	02/27/18 10:56	
2-Fluorophenol	43	16 - 129	02/27/18 10:56	
Nitrobenzene-d5	45	10 - 95	02/27/18 10:56	
Phenol-d6	44	10 - 145	02/27/18 10:56	
Terphenyl-d14	90	16 - 126	02/27/18 10:56	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2000 U	2000	590	5	02/27/18 11:24	2/22/18	
2,3,4,6-Tetrachlorophenol	2000 U	2000	500	5	02/27/18 11:24	2/22/18	
2,4,5-Trichlorophenol	2000 U	2000	500	5	02/27/18 11:24	2/22/18	
2,4,6-Trichlorophenol	2000 U	2000	520	5	02/27/18 11:24	2/22/18	
2,4-Dichlorophenol	2000 U	2000	420	5	02/27/18 11:24	2/22/18	
2,4-Dimethylphenol	2000 U	2000	390	5	02/27/18 11:24	2/22/18	
2,4-Dinitrophenol	10000 U	10000	380	5	02/27/18 11:24	2/22/18	
2,4-Dinitrotoluene	2000 U	2000	530	5	02/27/18 11:24	2/22/18	
2,6-Dinitrotoluene	2000 U	2000	710	5	02/27/18 11:24	2/22/18	
2-Chloronaphthalene	2000 U	2000	450	5	02/27/18 11:24	2/22/18	
2-Chlorophenol	2000 U	2000	490	5	02/27/18 11:24	2/22/18	
2-Methylnaphthalene	<b>5500</b>	2000	450	5	02/27/18 11:24	2/22/18	
2-Methylphenol	2000 U	2000	490	5	02/27/18 11:24	2/22/18	
2-Nitroaniline	10000 U	10000	580	5	02/27/18 11:24	2/22/18	
2-Nitrophenol	2000 U	2000	460	5	02/27/18 11:24	2/22/18	
3,3'-Dichlorobenzidine	2000 U	2000	620	5	02/27/18 11:24	2/22/18	
3- and 4-Methylphenol Coelution	2000 U	2000	510	5	02/27/18 11:24	2/22/18	
3-Nitroaniline	10000 U	10000	440	5	02/27/18 11:24	2/22/18	
4,6-Dinitro-2-methylphenol	10000 U	10000	440	5	02/27/18 11:24	2/22/18	
4-Bromophenyl Phenyl Ether	2000 U	2000	570	5	02/27/18 11:24	2/22/18	
4-Chloro-3-methylphenol	2000 U	2000	460	5	02/27/18 11:24	2/22/18	
4-Chloroaniline	2000 U	2000	240	5	02/27/18 11:24	2/22/18	
4-Chlorophenyl Phenyl Ether	2000 U	2000	480	5	02/27/18 11:24	2/22/18	
4-Nitroaniline	10000 U	10000	450	5	02/27/18 11:24	2/22/18	
4-Nitrophenol	10000 U	10000	1200	5	02/27/18 11:24	2/22/18	
Acenaphthene	<b>2700</b>	2000	450	5	02/27/18 11:24	2/22/18	
Acenaphthylene	2000 U	2000	410	5	02/27/18 11:24	2/22/18	
Acetophenone	2000 U	2000	470	5	02/27/18 11:24	2/22/18	
Anthracene	<b>3800</b>	2000	390	5	02/27/18 11:24	2/22/18	
Atrazine	2000 U	2000	550	5	02/27/18 11:24	2/22/18	
Benz(a)anthracene	<b>7800</b>	2000	350	5	02/27/18 11:24	2/22/18	
Benzaldehyde	10000 U	10000	480	5	02/27/18 11:24	2/22/18	
Benzo(a)pyrene	<b>8600</b>	2000	410	5	02/27/18 11:24	2/22/18	
Benzo(b)fluoranthene	<b>9800</b>	2000	370	5	02/27/18 11:24	2/22/18	
Benzo(g,h,i)perylene	<b>5500</b>	2000	460	5	02/27/18 11:24	2/22/18	
Benzo(k)fluoranthene	<b>3700</b>	2000	450	5	02/27/18 11:24	2/22/18	
Biphenyl	2000 U	2000	470	5	02/27/18 11:24	2/22/18	
2,2'-Oxybis(1-chloropropane)	2000 U	2000	490	5	02/27/18 11:24	2/22/18	
Bis(2-chloroethoxy)methane	2000 U	2000	460	5	02/27/18 11:24	2/22/18	
Bis(2-chloroethyl) Ether	2000 U	2000	370	5	02/27/18 11:24	2/22/18	
Bis(2-ethylhexyl) Phthalate	3000 U	3000	2800	5	02/27/18 11:24	2/22/18	
Butyl Benzyl Phthalate	2000 U	2000	390	5	02/27/18 11:24	2/22/18	
Caprolactam	2000 U	2000	450	5	02/27/18 11:24	2/22/18	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	<b>2000 J</b>	2000	500	5	02/27/18 11:24	2/22/18	
Chrysene	<b>7600</b>	2000	400	5	02/27/18 11:24	2/22/18	
Di-n-butyl Phthalate	2000 U	2000	670	5	02/27/18 11:24	2/22/18	
Di-n-octyl Phthalate	2000 U	2000	610	5	02/27/18 11:24	2/22/18	
Dibenz(a,h)anthracene	<b>1500 J</b>	2000	370	5	02/27/18 11:24	2/22/18	
Dibenzofuran	<b>1900 J</b>	2000	410	5	02/27/18 11:24	2/22/18	
Diethyl Phthalate	2000 U	2000	1100	5	02/27/18 11:24	2/22/18	
Dimethyl Phthalate	2000 U	2000	550	5	02/27/18 11:24	2/22/18	
Fluoranthene	<b>14000</b>	2000	480	5	02/27/18 11:24	2/22/18	
Fluorene	<b>4500</b>	2000	510	5	02/27/18 11:24	2/22/18	
Hexachlorobenzene	2000 U	2000	470	5	02/27/18 11:24	2/22/18	
Hexachlorobutadiene	2000 U	2000	340	5	02/27/18 11:24	2/22/18	
Hexachlorocyclopentadiene	2000 U	2000	340	5	02/27/18 11:24	2/22/18	
Hexachloroethane	2000 U	2000	350	5	02/27/18 11:24	2/22/18	
Indeno(1,2,3-cd)pyrene	<b>6100</b>	2000	450	5	02/27/18 11:24	2/22/18	
Isophorone	2000 U	2000	440	5	02/27/18 11:24	2/22/18	
N-Nitrosodi-n-propylamine	2000 U	2000	370	5	02/27/18 11:24	2/22/18	
N-Nitrosodiphenylamine	2000 U	2000	900	5	02/27/18 11:24	2/22/18	
Naphthalene	<b>2700</b>	2000	420	5	02/27/18 11:24	2/22/18	
Nitrobenzene	2000 U	2000	420	5	02/27/18 11:24	2/22/18	
Pentachlorophenol (PCP)	10000 U	10000	670	5	02/27/18 11:24	2/22/18	
Phenanthrene	<b>20000</b>	2000	420	5	02/27/18 11:24	2/22/18	
Phenol	2000 U	2000	440	5	02/27/18 11:24	2/22/18	
Pyrene	<b>12000</b>	2000	390	5	02/27/18 11:24	2/22/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	80	13 - 128	02/27/18 11:24	
2-Fluorobiphenyl	54	10 - 102	02/27/18 11:24	
2-Fluorophenol	31	16 - 129	02/27/18 11:24	
Nitrobenzene-d5	39	10 - 95	02/27/18 11:24	
Phenol-d6	39	10 - 145	02/27/18 11:24	
Terphenyl-d14	84	16 - 126	02/27/18 11:24	

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL992.D  
 Acq On : 22 Feb 2018 4:23 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-001|5.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 7 Sample Multiplier: 1

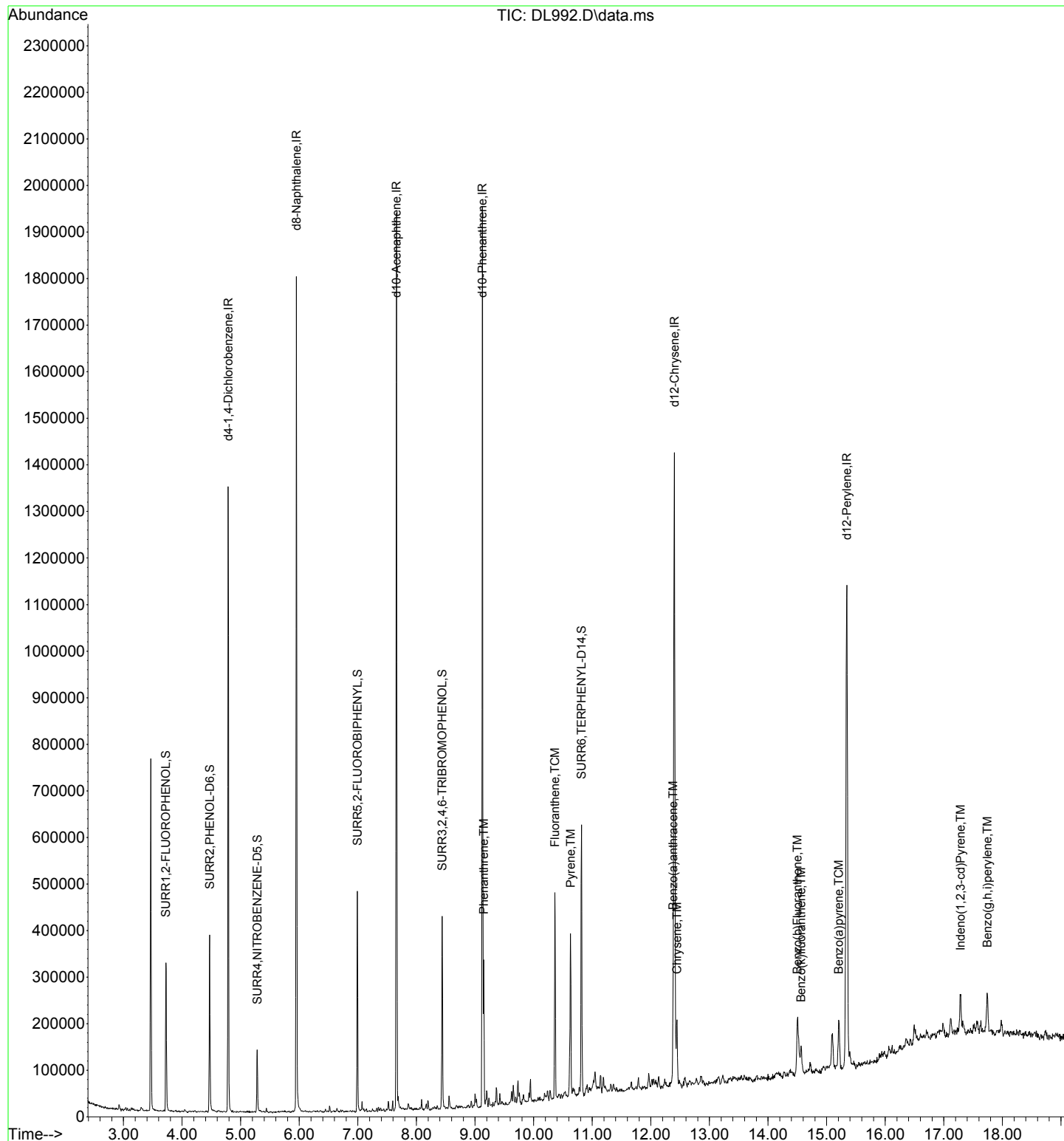
Quant Time: Feb 26 14:56:28 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

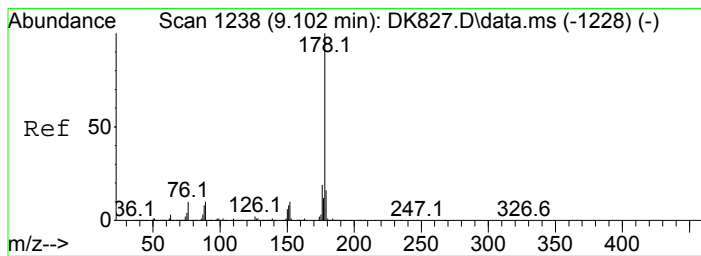
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.786	152	214922	40.00	ppm	-0.02	
24) d8-Naphthalene	5.951	136	813348	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.660	164	387507	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.123	188	698891	40.00	ppm	-0.02	
82) d12-Chrysene	12.403	240	635821	40.00	ppm	-0.03	
91) d12-Perylene	15.346	264	661072	40.00	ppm	-0.04	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.723	112	119456	17.16	ppm	-0.01	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	8.58%#	
8) SURR2,PHENOL-D6	4.471	99	167756	19.44	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	9.72%#	
25) SURR4,NITROBENZENE-D5	5.283	82	47719	7.98	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	7.98%#	
48) SURR5,2-FLUOROBIPHENYL	6.992	172	142933	10.44	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	10.44%#	
67) SURR3,2,4,6-TRIBROMOPH...	8.440	330	56762	30.72	ppm	-0.02	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	15.36%	
85) SURR6,TERPHENYL-D14	10.816	244	207128	15.17	ppm	-0.03	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	15.17%#	
<b>Target Compounds</b>							
							Qvalue
77) Phenanthrene	9.150	178	112096	6.111	ppm		99
81) Fluoranthene	10.362	202	185783	9.909	ppm		96
84) Pyrene	10.629	202	154026	8.188	ppm		97
88) Benzo(a)anthracene	12.381	228	62431	3.506	ppm		97
89) Chrysene	12.445	228	78722	4.727	ppm		99
93) Benzo(b)Fluoranthene	14.502	252	103398	5.508	ppm		97
94) Benzo(k)fluoranthene	14.560	252	35138	1.980	ppm		93
95) Benzo(a)pyrene	15.207	252	64162	3.975	ppm		99
96) Indeno(1,2,3-cd)Pyrene	17.284	276	55906	3.695	ppm		95
98) Benzo(g,h,i)perylene	17.744	276	60438	3.993	ppm		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL992.D  
Acq On : 22 Feb 2018 4:23 pm  
Operator : J.Misiurewicz  
Sample : R1801453-001|5.0  
Misc : 308725 8270D SOIL  
ALS Vial : 7 Sample Multiplier: 1

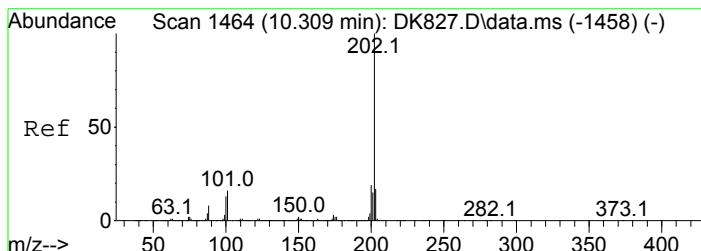
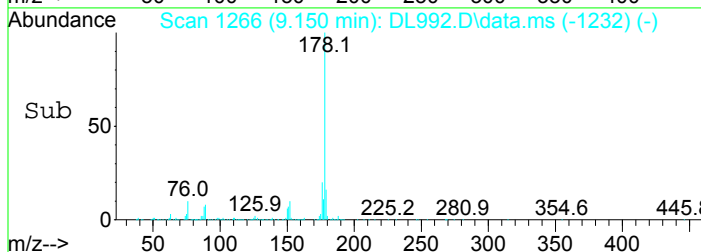
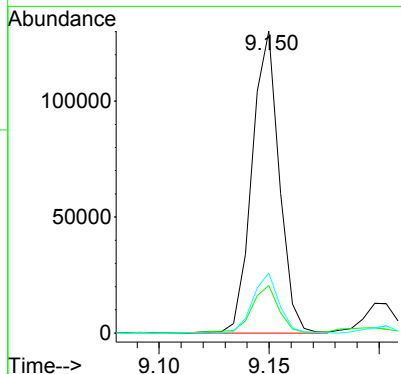
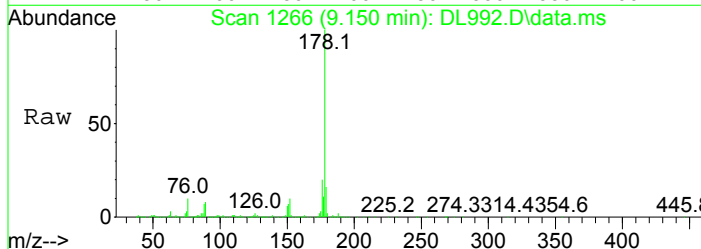
Quant Time: Feb 26 14:56:28 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





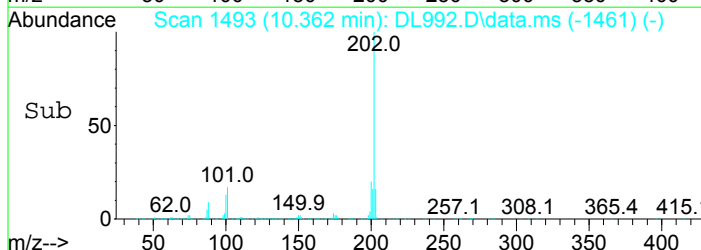
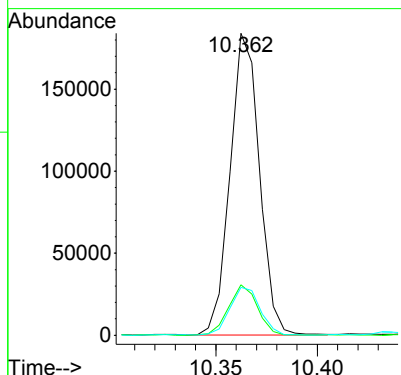
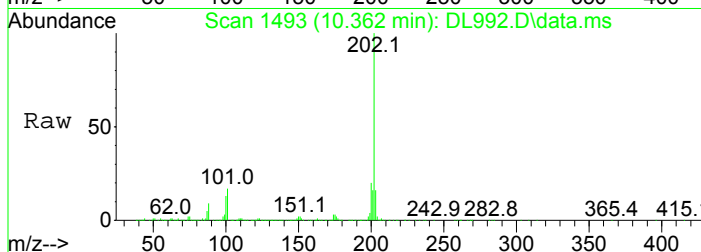
#77  
 Phenanthrene  
 Concen: 6.11 ppm  
 RT: 9.150 min Scan# 1266  
 Delta R.T. -0.020 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

Tgt Ion	Resp	Lower	Upper
178	112096		
179	15.5	0.0	36.3
176	19.9	0.0	39.7

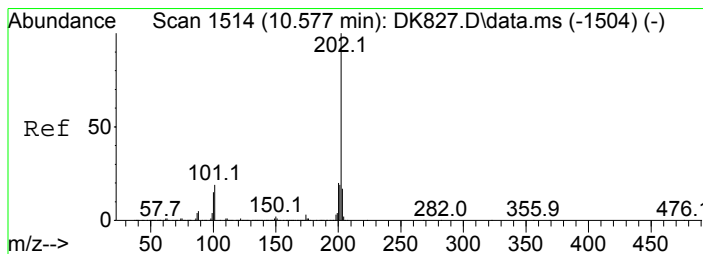


#81  
 Fluoranthene  
 Concen: 9.91 ppm  
 RT: 10.362 min Scan# 1493  
 Delta R.T. -0.027 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

Tgt Ion	Resp	Lower	Upper
202	185783		
101	16.6	0.0	35.1
203	15.6	0.0	37.7

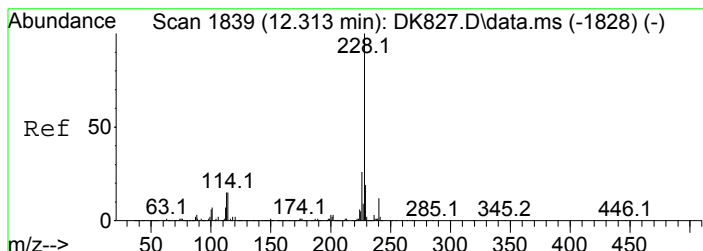
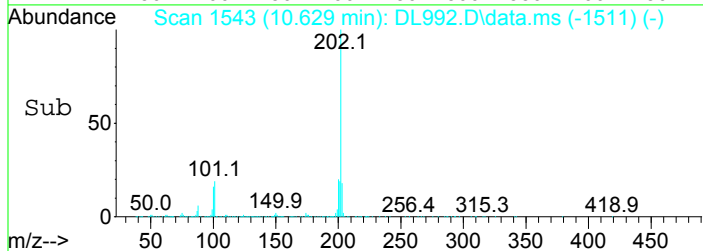
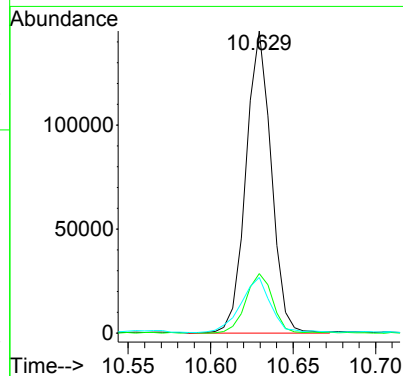
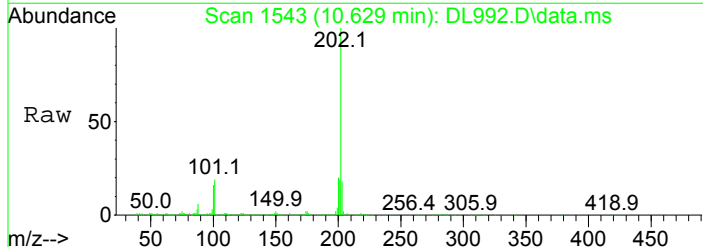






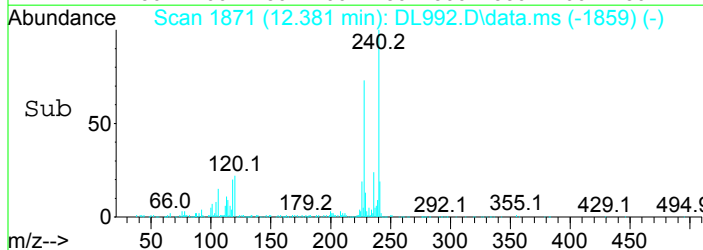
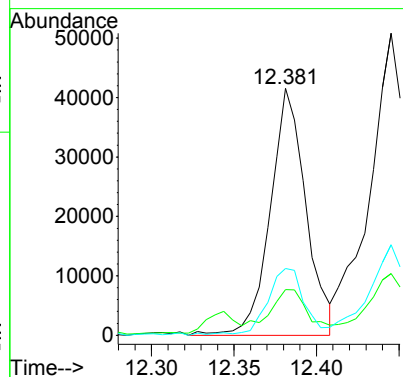
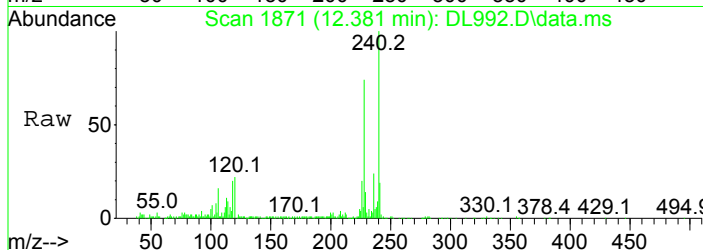
#84  
 Pyrene  
 Concen: 8.19 ppm  
 RT: 10.629 min Scan# 1543  
 Delta R.T. -0.027 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

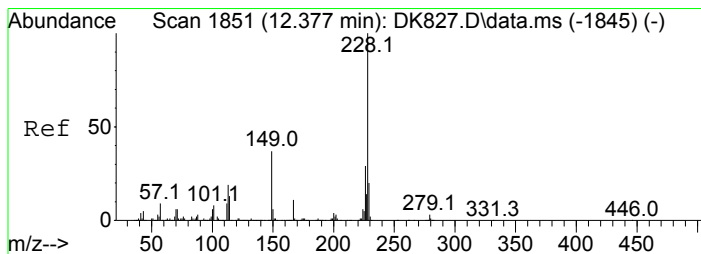
Tgt Ion	Resp	Lower	Upper
202	154026		
200	19.5	1.7	41.7
203	18.2	0.0	37.6



#88  
 Benzo(a)anthracene  
 Concen: 3.51 ppm  
 RT: 12.381 min Scan# 1871  
 Delta R.T. -0.036 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

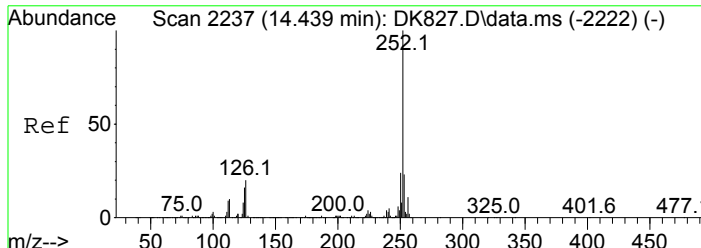
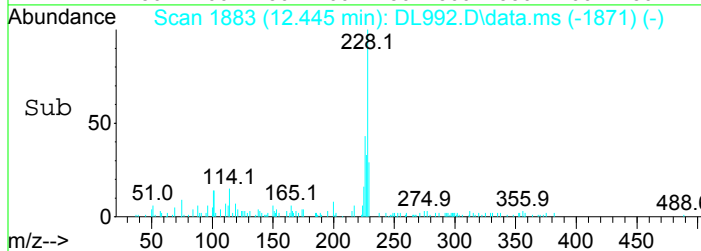
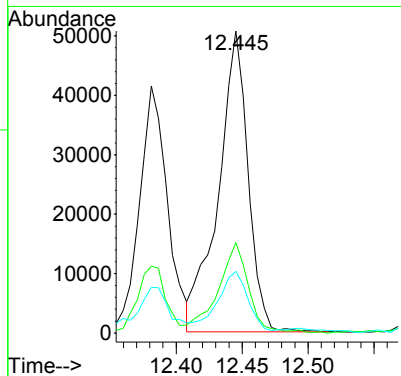
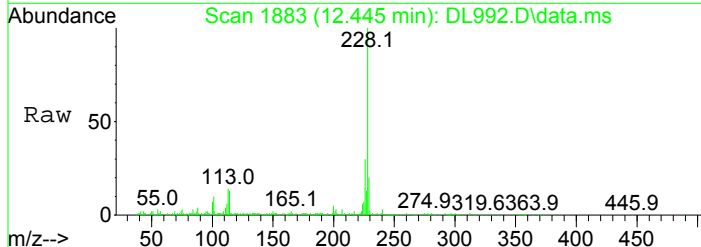
Tgt Ion	Resp	Lower	Upper
228	62431		
229	17.2	0.0	39.4
226	27.2	7.9	47.9





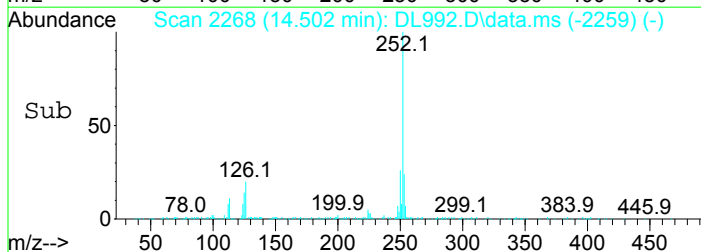
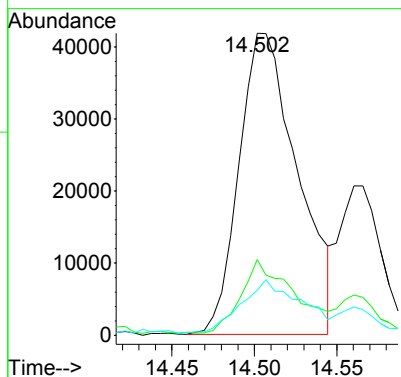
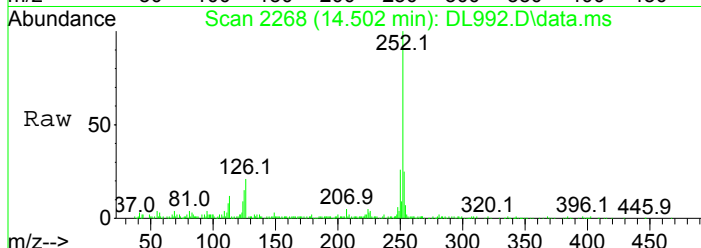
#89  
 Chrysene  
 Concen: 4.73 ppm  
 RT: 12.445 min Scan# 1883  
 Delta R.T. -0.038 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

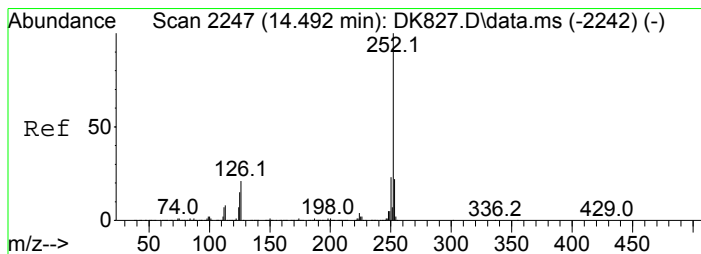
Tgt Ion	Resp	Lower	Upper
228	100		
226	30.3	9.9	49.9
229	19.3	0.0	39.5



#93  
 Benzo(b)Fluoranthene  
 Concen: 5.51 ppm  
 RT: 14.502 min Scan# 2268  
 Delta R.T. -0.053 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

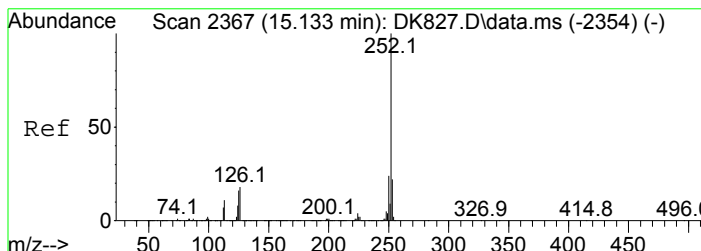
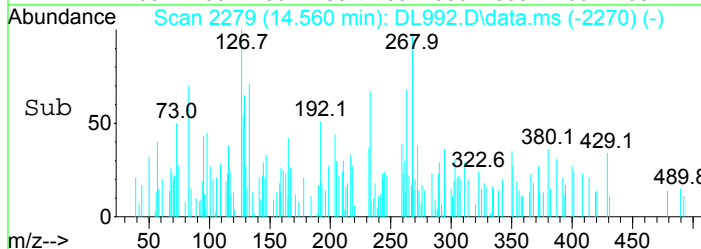
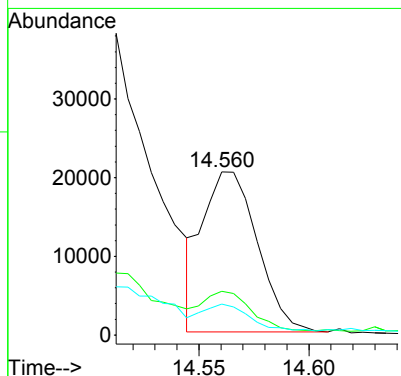
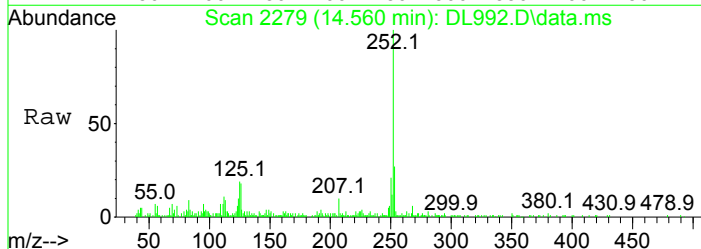
Tgt Ion	Resp	Lower	Upper
252	100		
253	24.2	4.1	44.1
125	14.0	0.0	37.3





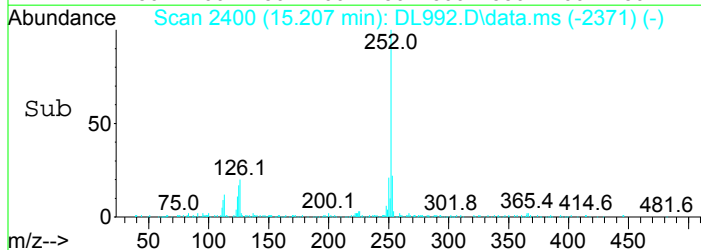
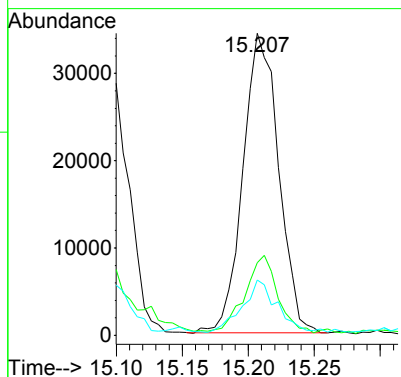
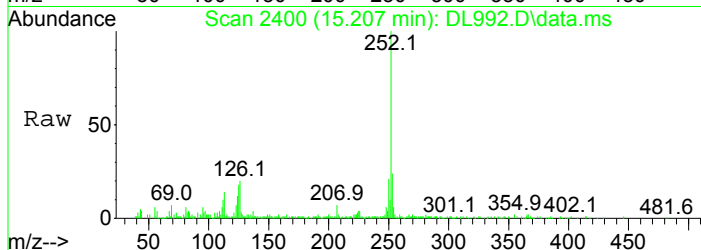
#94  
 Benzo(k)fluoranthene  
 Concen: 1.98 ppm  
 RT: 14.560 min Scan# 2279  
 Delta R.T. -0.051 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

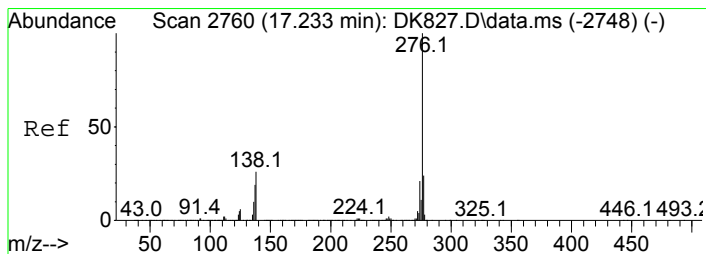
Tgt Ion	Resp	Lower	Upper
252	100		
253	24.7	1.1	41.1
125	17.4	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 3.97 ppm  
 RT: 15.207 min Scan# 2400  
 Delta R.T. -0.047 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

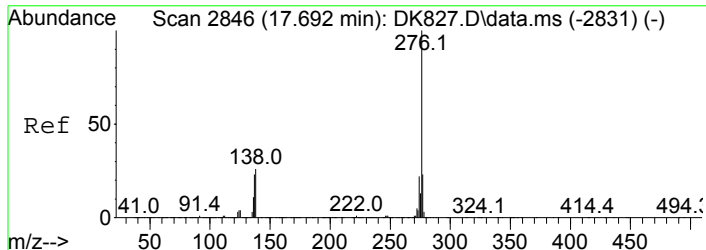
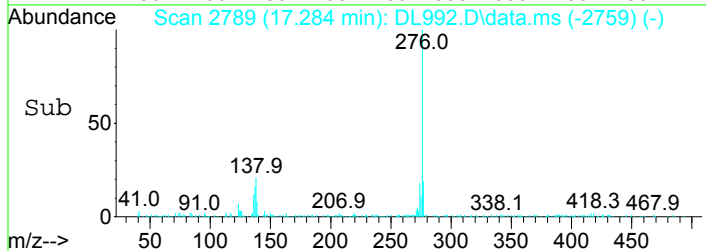
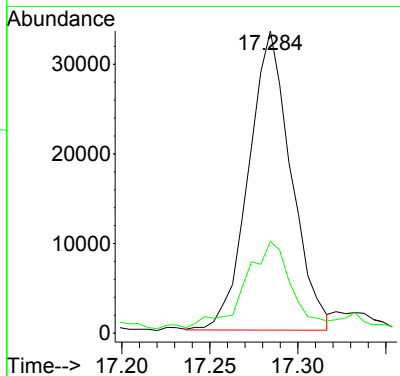
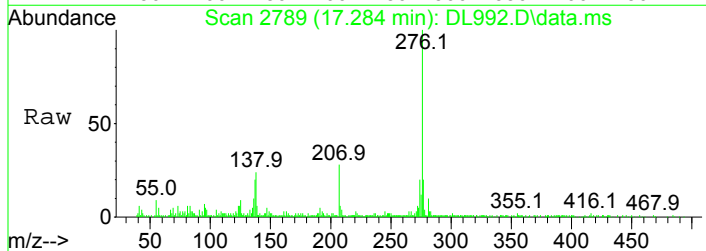
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.9	1.3	41.3
125	16.9	0.0	36.3





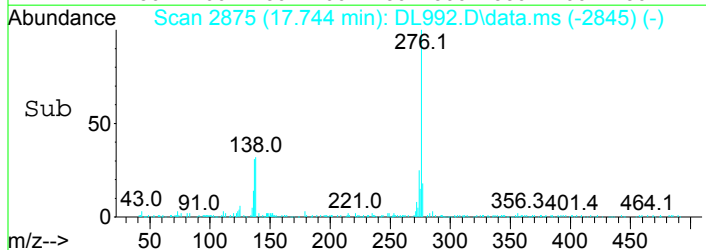
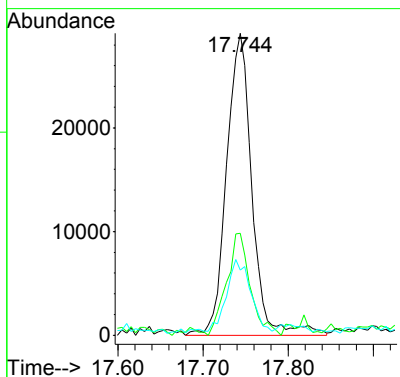
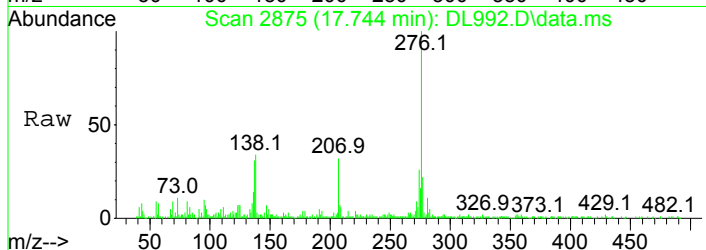
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 3.69 ppm  
 RT: 17.284 min Scan# 2789  
 Delta R.T. -0.038 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	28.6	6.0	46.0



#98  
 Benzo(g,h,i)perylene  
 Concen: 3.99 ppm  
 RT: 17.744 min Scan# 2875  
 Delta R.T. -0.039 min  
 Lab File: DL992.D  
 Acq: 22 Feb 2018 4:23 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	32.4	10.9	50.9
277	20.7	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL993.D  
 Acq On : 22 Feb 2018 4:50 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-002  
 Misc : 308725 8270D SOIL  
 ALS Vial : 8 Sample Multiplier: 1

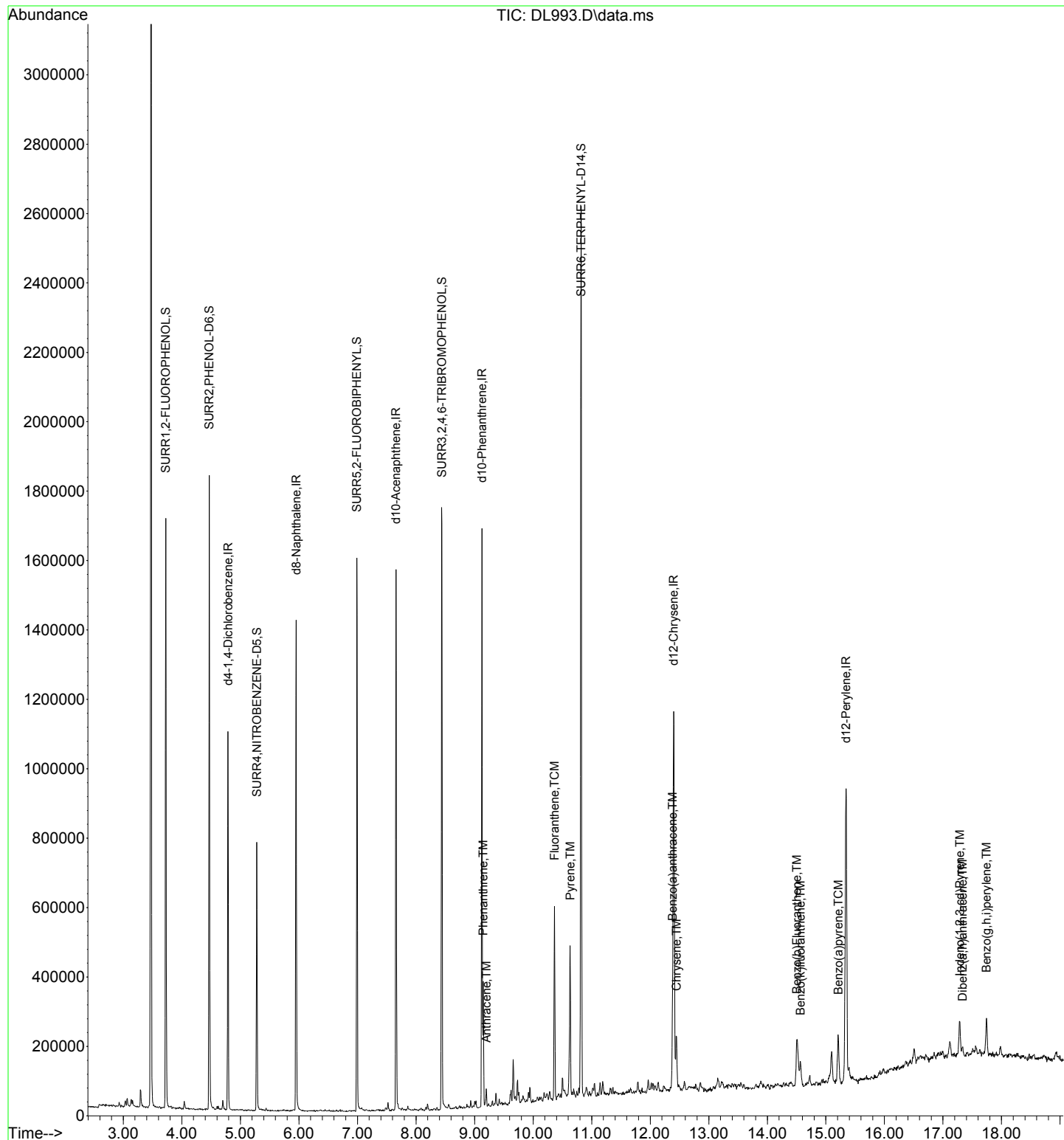
Quant Time: Feb 26 14:56:32 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

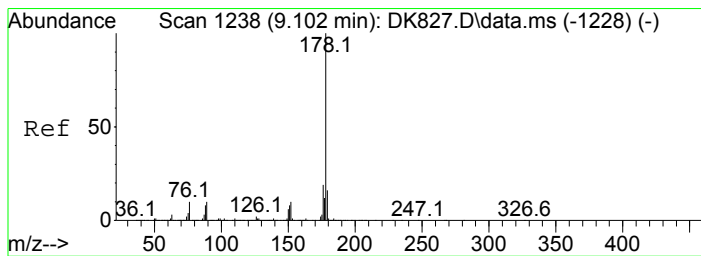
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.789	152	173063	40.00	ppm	-0.02
24) d8-Naphthalene	5.953	136	658980	40.00	ppm	-0.02
42) d10-Acenaphthene	7.657	164	318698	40.00	ppm	-0.02
69) d10-Phenanthrene	9.126	188	553540	40.00	ppm	-0.02
82) d12-Chrysene	12.400	240	508283	40.00	ppm	-0.04
91) d12-Perylene	15.343	264	532248	40.00	ppm	-0.04
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.726	112	544218	97.10	ppm	-0.01
Spiked Amount 200.000	Range 16	- 129	Recovery =	48.55%		
8) SURR2,PHENOL-D6	4.468	99	713249	102.65	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	51.32%		
25) SURR4,NITROBENZENE-D5	5.280	82	253256	52.25	ppm	-0.02
Spiked Amount 100.000	Range 11	- 91	Recovery =	52.25%		
48) SURR5,2-FLUOROBIPHENYL	6.989	172	509269	45.22	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	45.22%		
67) SURR3,2,4,6-TRIBROMOPH...	8.442	330	243287	160.08	ppm	-0.01
Spiked Amount 200.000	Range 10	- 109	Recovery =	80.04%		
85) SURR6,TERPHENYL-D14	10.819	244	989354	90.64	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	90.64%		
<b>Target Compounds</b>						
77) Phenanthrene	9.147	178	123943	8.532	ppm	99
78) Anthracene	9.201	178	19893	1.373	ppm	95
81) Fluoranthene	10.365	202	231538	15.592	ppm	97
84) Pyrene	10.632	202	196490	13.066	ppm	98
88) Benzo(a)anthracene	12.384	228	93056	6.536	ppm	97
89) Chrysene	12.448	228	97142	7.297	ppm	94
93) Benzo(b)Fluoranthene	14.504	252	124201	8.218	ppm	98
94) Benzo(k)fluoranthene	14.563	252	41489	2.904	ppm	97
95) Benzo(a)pyrene	15.215	252	88112	6.779	ppm	92
96) Indeno(1,2,3-cd)Pyrene	17.287	276	64687	5.310	ppm	98
97) Dibenz(a,h)anthracene	17.335	278	13637	1.024	ppm	90
98) Benzo(g,h,i)perylene	17.741	276	64333	5.280	ppm	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL993.D  
Acq On : 22 Feb 2018 4:50 pm  
Operator : J.Misiurewicz  
Sample : R1801453-002  
Misc : 308725 8270D SOIL  
ALS Vial : 8 Sample Multiplier: 1

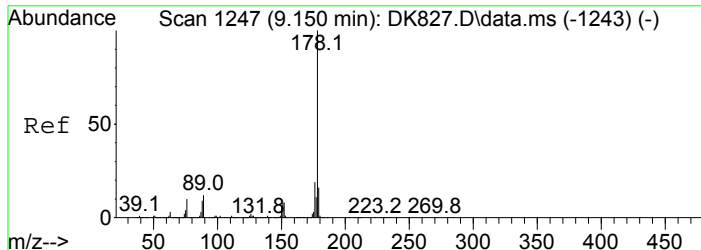
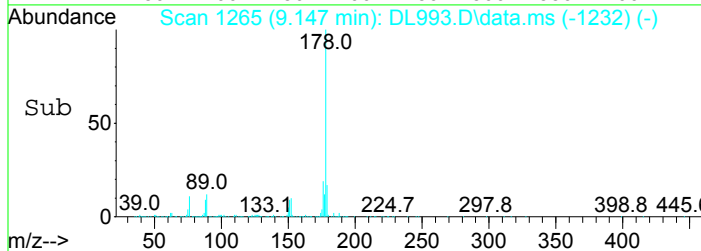
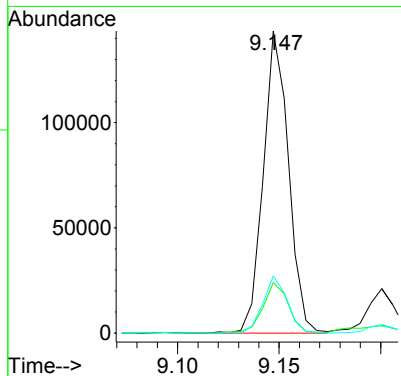
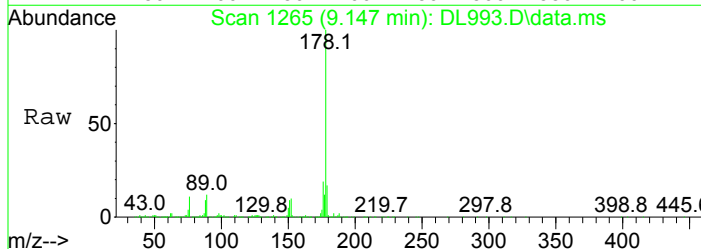
Quant Time: Feb 26 14:56:32 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





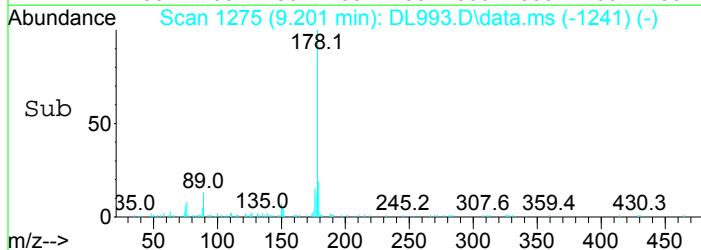
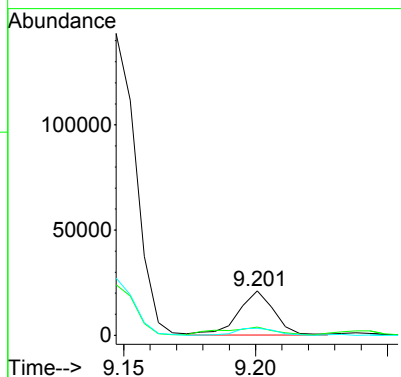
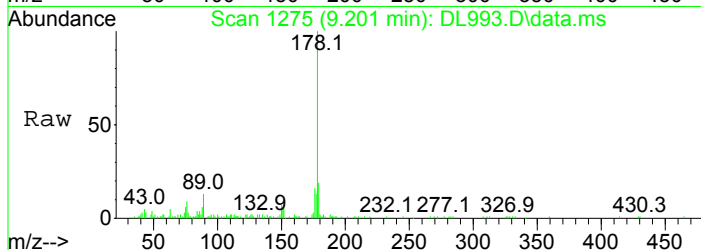
#77  
 Phenanthrene  
 Concen: 8.53 ppm  
 RT: 9.147 min Scan# 1265  
 Delta R.T. -0.023 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

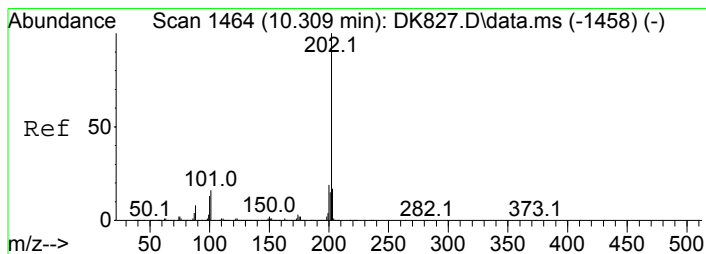
Tgt Ion	Resp	Lower	Upper
178	123943		
179	16.6	0.0	36.3
176	19.0	0.0	39.7



#78  
 Anthracene  
 Concen: 1.37 ppm  
 RT: 9.201 min Scan# 1275  
 Delta R.T. -0.019 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

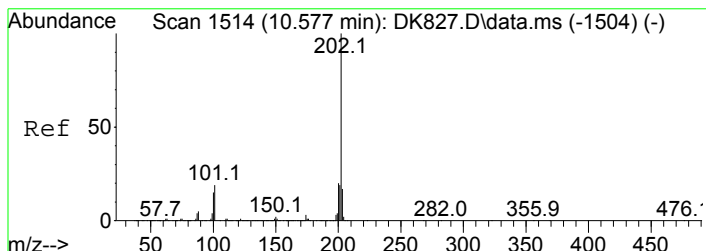
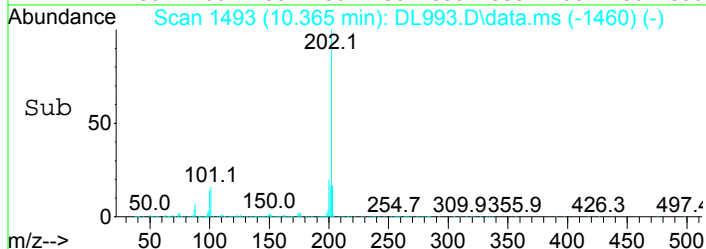
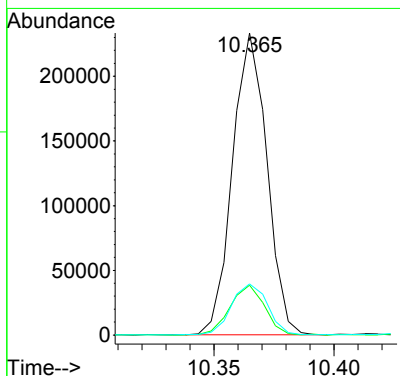
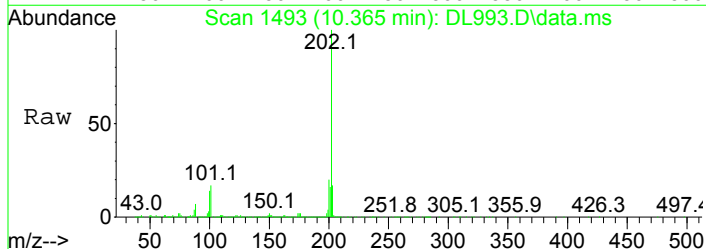
Tgt Ion	Resp	Lower	Upper
178	19893		
179	16.2	0.0	36.2
176	15.5	0.0	39.4





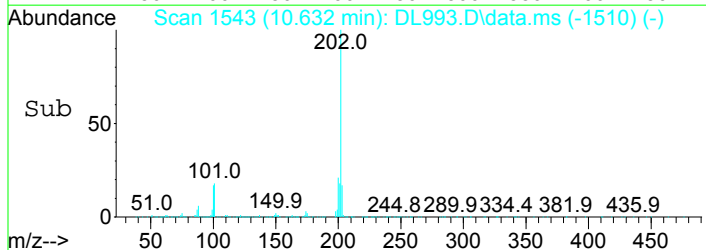
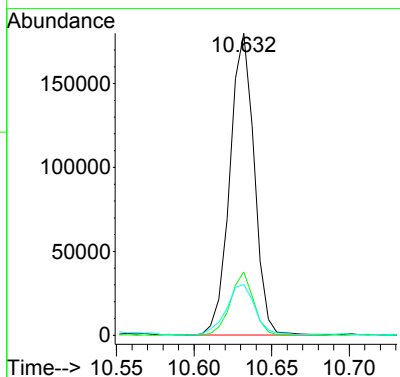
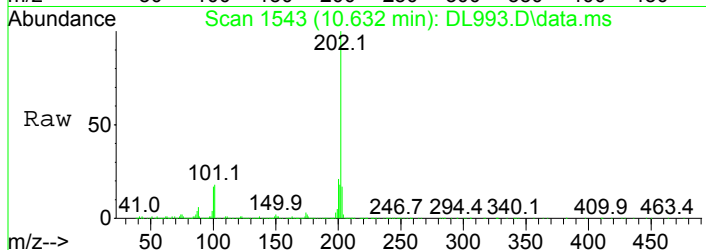
#81  
 Fluoranthene  
 Concen: 15.59 ppm  
 RT: 10.365 min Scan# 1493  
 Delta R.T. -0.024 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

Tgt Ion	Resp	Lower	Upper
202	231538		
101	16.5	0.0	35.1
203	16.8	0.0	37.7

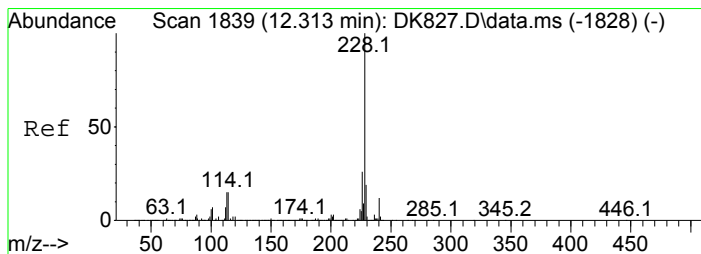


#84  
 Pyrene  
 Concen: 13.07 ppm  
 RT: 10.632 min Scan# 1543  
 Delta R.T. -0.024 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

Tgt Ion	Resp	Lower	Upper
202	196490		
200	20.9	1.7	41.7
203	16.6	0.0	37.6

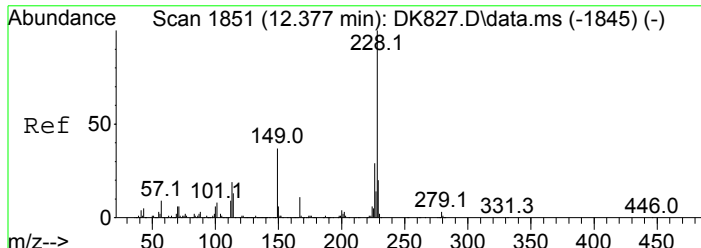
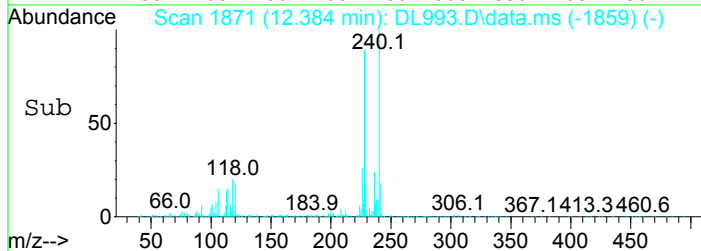
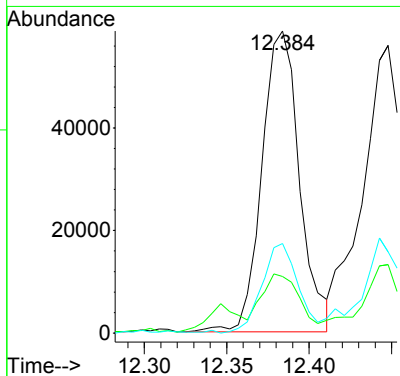
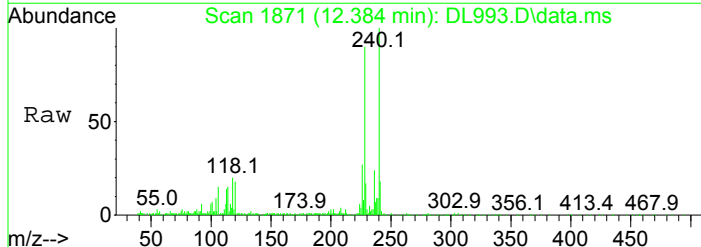






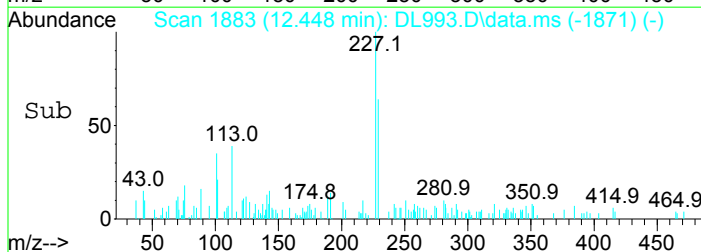
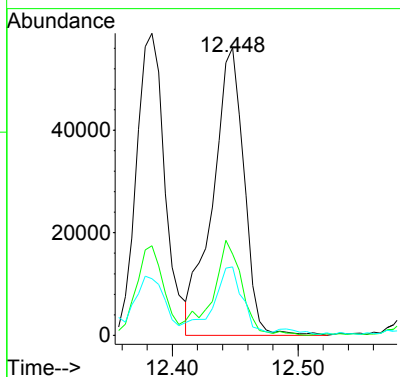
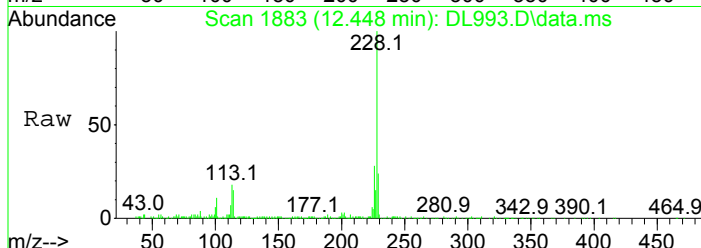
#88  
 Benzo(a)anthracene  
 Concen: 6.54 ppm  
 RT: 12.384 min Scan# 1871  
 Delta R.T. -0.034 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

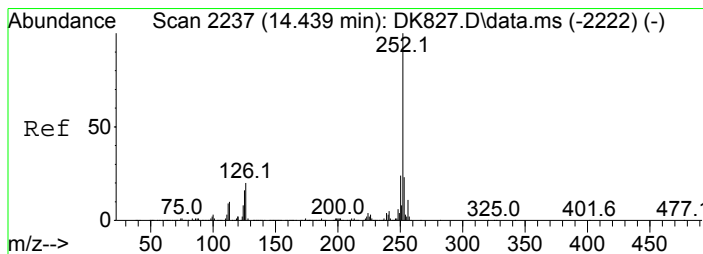
Tgt Ion	Resp	Lower	Upper
228	93056		
229	17.1	0.0	39.4
226	28.7	7.9	47.9



#89  
 Chrysene  
 Concen: 7.30 ppm  
 RT: 12.448 min Scan# 1883  
 Delta R.T. -0.035 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

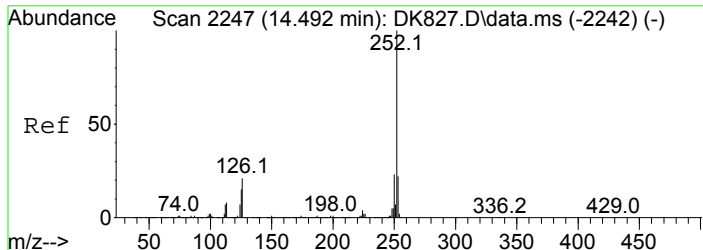
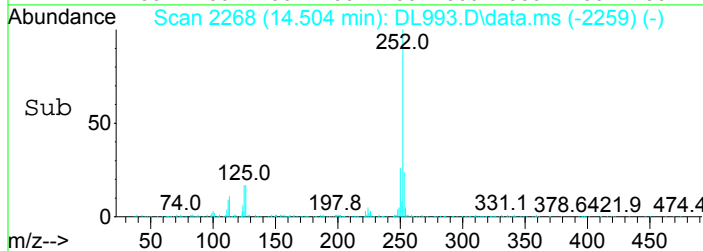
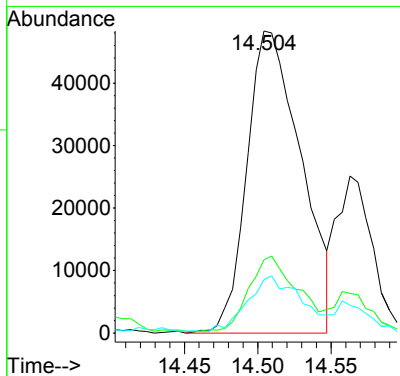
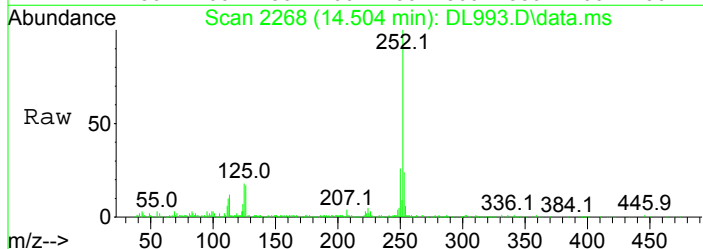
Tgt Ion	Resp	Lower	Upper
228	97142		
226	27.0	9.9	49.9
229	22.4	0.0	39.5





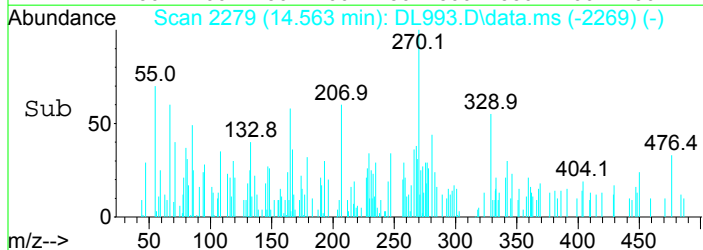
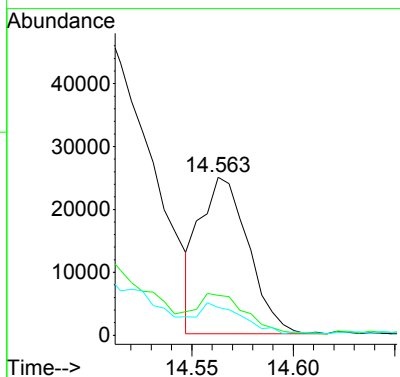
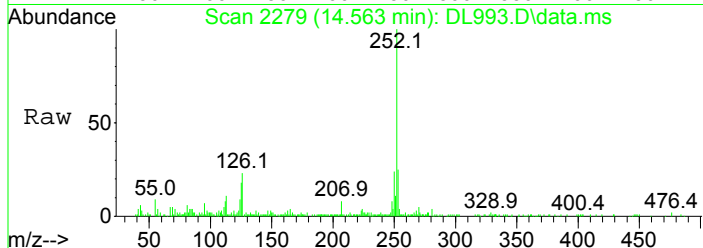
#93  
 Benzo(b)Fluoranthene  
 Concen: 8.22 ppm  
 RT: 14.504 min Scan# 2268  
 Delta R.T. -0.050 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

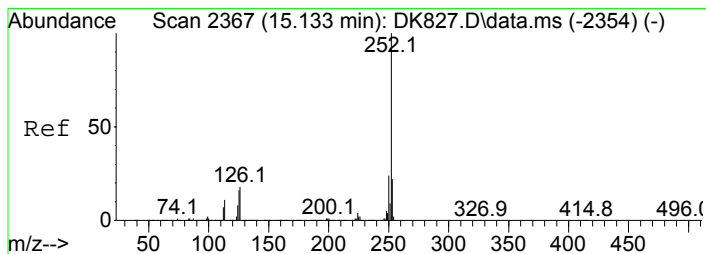
Tgt Ion	Resp	Lower	Upper
252	100		
253	23.2	4.1	44.1
125	16.5	0.0	37.3



#94  
 Benzo(k)fluoranthene  
 Concen: 2.90 ppm  
 RT: 14.563 min Scan# 2279  
 Delta R.T. -0.049 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

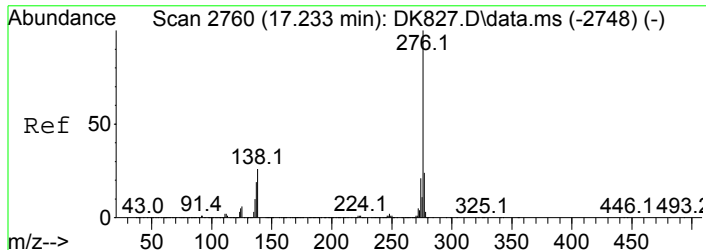
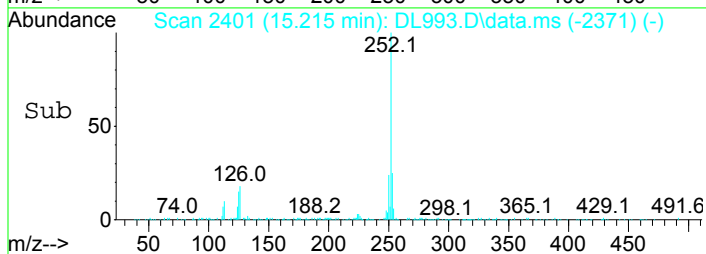
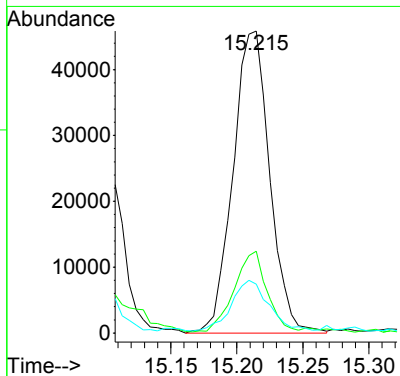
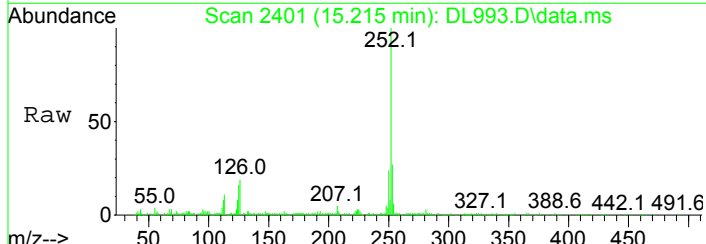
Tgt Ion	Resp	Lower	Upper
252	100		
253	23.6	1.1	41.1
125	15.4	0.0	35.2





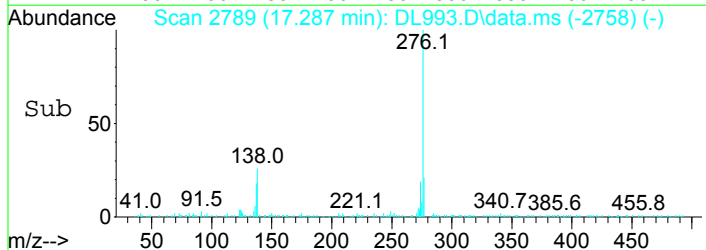
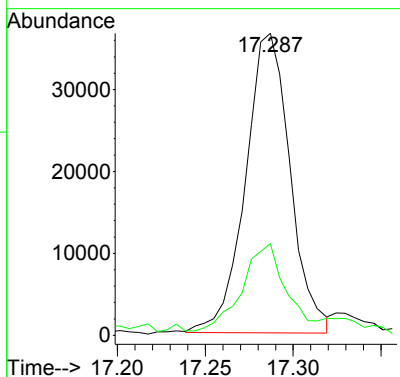
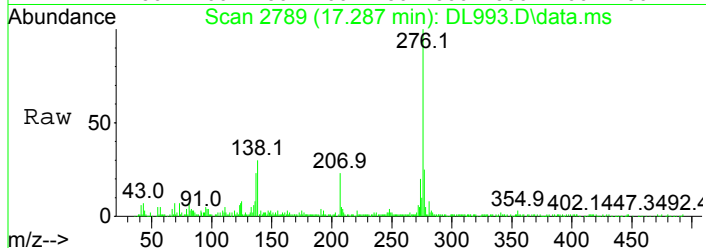
#95  
 Benzo(a)pyrene  
 Concen: 6.78 ppm  
 RT: 15.215 min Scan# 2401  
 Delta R.T. -0.039 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

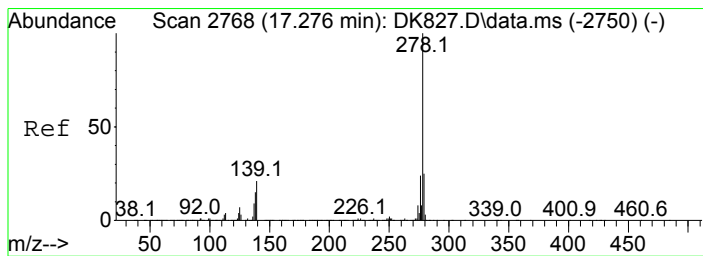
Tgt Ion	Resp	Lower	Upper
252	100		
253	26.1	1.3	41.3
125	14.2	0.0	36.3



#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 5.31 ppm  
 RT: 17.287 min Scan# 2789  
 Delta R.T. -0.035 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

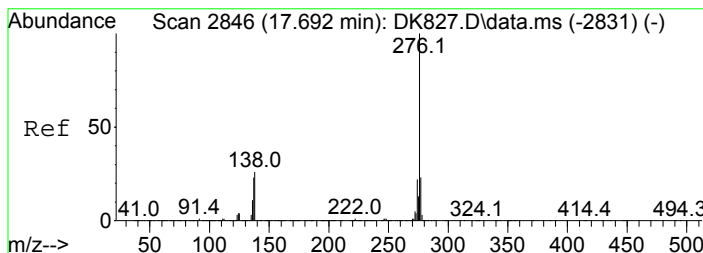
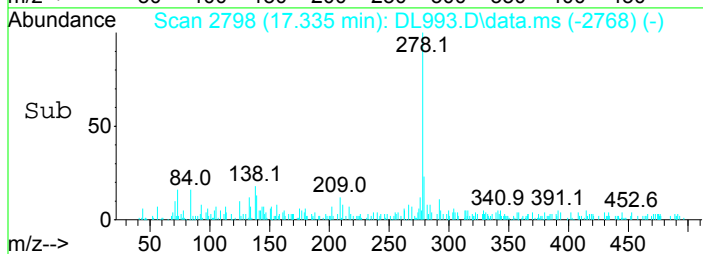
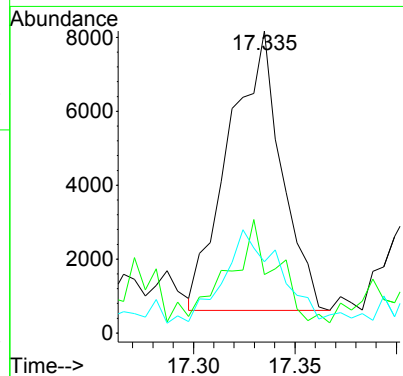
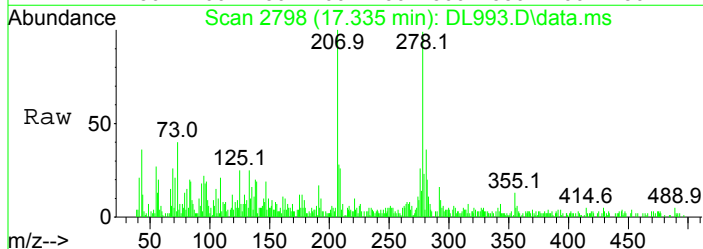
Tgt Ion	Resp	Lower	Upper
276	100		
138	26.9	6.0	46.0





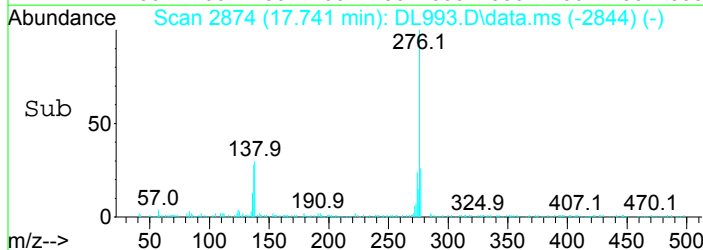
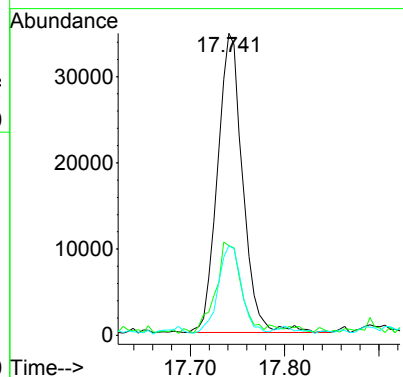
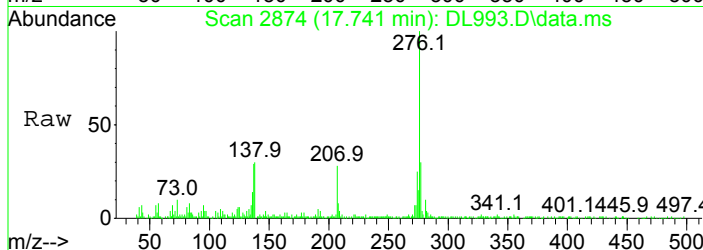
#97  
 Dibenz(a,h)anthracene  
 Concen: 1.02 ppm  
 RT: 17.335 min Scan# 2798  
 Delta R.T. -0.041 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

Tgt Ion	Resp	Lower	Upper
278	13637		
139	16.4	2.6	42.6
279	20.7	4.6	44.6



#98  
 Benzo(g,h,i)perylene  
 Concen: 5.28 ppm  
 RT: 17.741 min Scan# 2874  
 Delta R.T. -0.042 min  
 Lab File: DL993.D  
 Acq: 22 Feb 2018 4:50 pm

Tgt Ion	Resp	Lower	Upper
276	64333		
138	28.6	10.9	50.9
277	28.8	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL994.D  
 Acq On : 22 Feb 2018 5:18 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-003  
 Misc : 308725 8270D SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 14:56:36 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

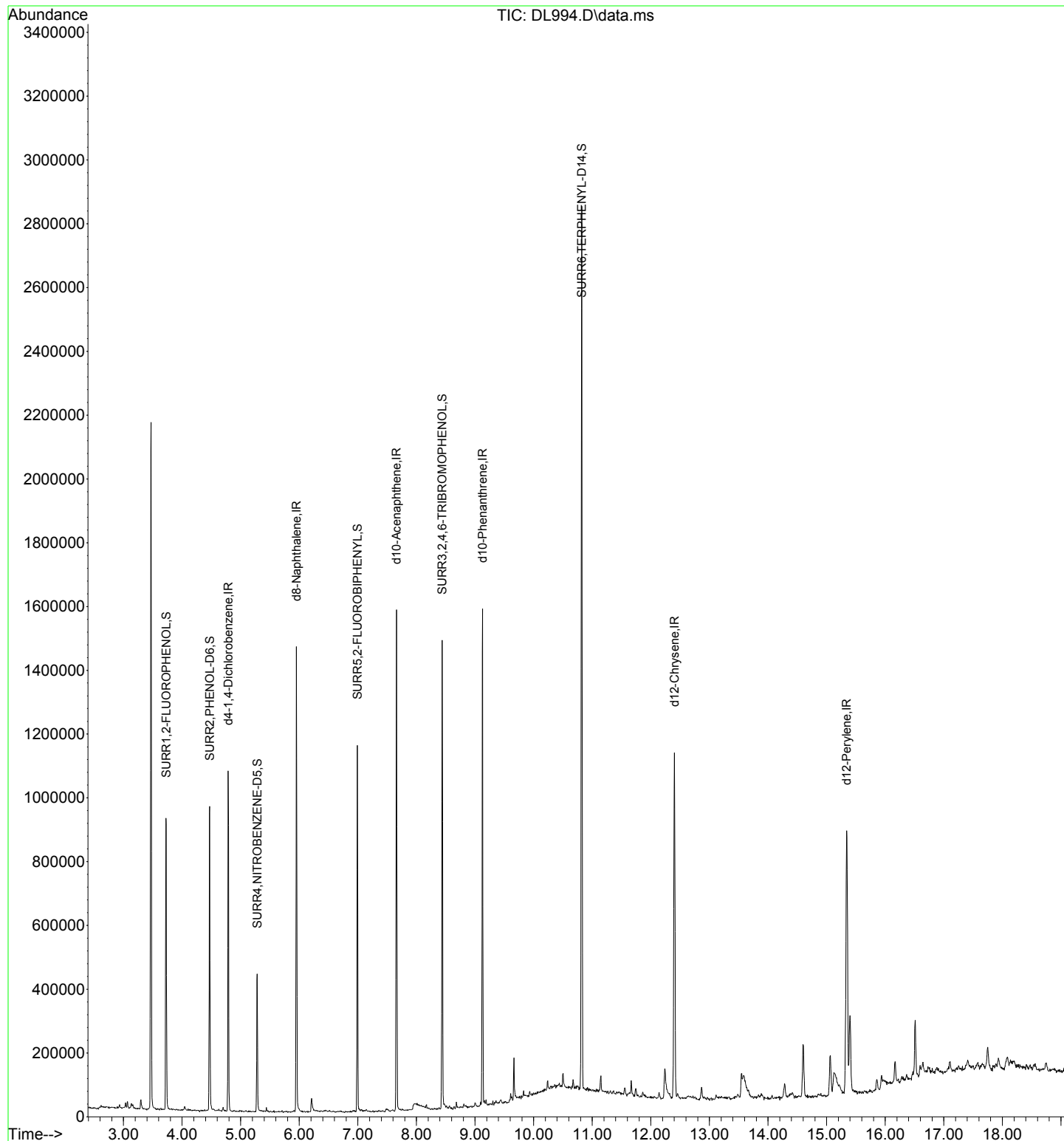
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.786	152	172429	40.00	ppm	-0.02
24) d8-Naphthalene	5.951	136	661944	40.00	ppm	-0.02
42) d10-Acenaphthene	7.660	164	313605	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	553900	40.00	ppm	-0.02
82) d12-Chrysene	12.403	240	513520	40.00	ppm	-0.03
91) d12-Perylene	15.340	264	533150	40.00	ppm	-0.04
System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.729	112	322892	57.82	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	28.91%		
8) SURR2,PHENOL-D6	4.471	99	418968	60.52	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	30.26%		
25) SURR4,NITROBENZENE-D5	5.283	82	154056	31.64	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	31.64%		
48) SURR5,2-FLUOROBIPHENYL	6.992	172	337506	30.45	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	30.45%		
67) SURR3,2,4,6-TRIBROMOPH...	8.439	330	181655	121.47	ppm	-0.02
Spiked Amount 200.000	Range 10	- 109	Recovery =	60.73%		
85) SURR6,TERPHENYL-D14	10.822	244	1045218	94.78	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	94.78%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL994.D  
Acq On : 22 Feb 2018 5:18 pm  
Operator : J.Misiurewicz  
Sample : R1801453-003  
Misc : 308725 8270D SOIL  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 26 14:56:36 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL995.D  
 Acq On : 22 Feb 2018 5:46 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-005  
 Misc : 308725 8270D SOIL  
 ALS Vial : 10 Sample Multiplier: 1

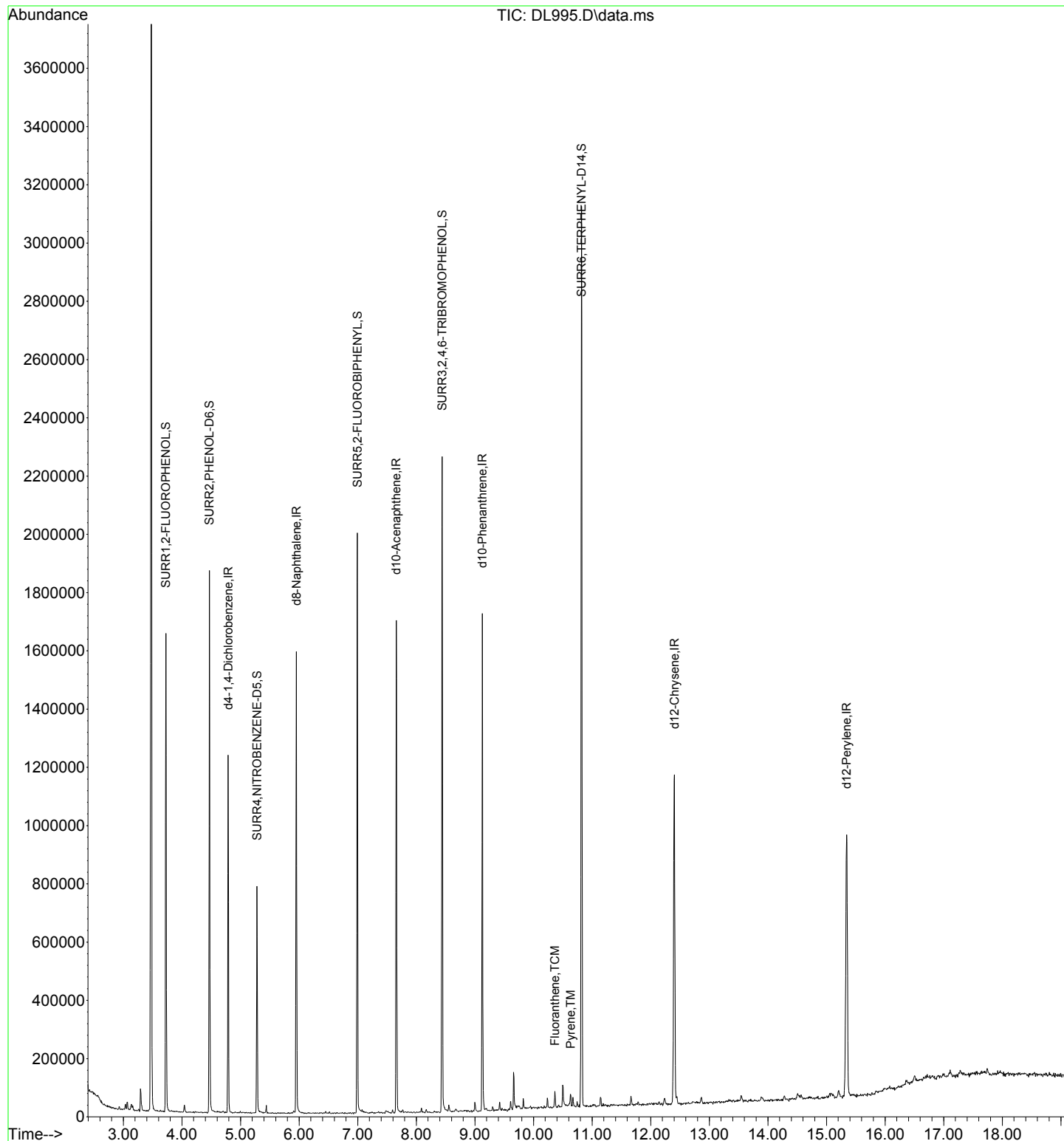
Quant Time: Feb 26 14:56:41 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.788	152	192535	40.00	ppm	-0.02	
24) d8-Naphthalene	5.952	136	716989	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.656	164	347534	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.125	188	580938	40.00	ppm	-0.02	
82) d12-Chrysene	12.404	240	542473	40.00	ppm	-0.03	
91) d12-Perylene	15.342	264	581863	40.00	ppm	-0.04	
System Monitoring Compounds							
4) SURR1,2-FLUOROPHENOL	3.725	112	529037	84.84	ppm	-0.01	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	42.42%	
8) SURR2,PHENOL-D6	4.468	99	728455	94.23	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	47.12%	
25) SURR4,NITROBENZENE-D5	5.279	82	256156	48.57	ppm	-0.02	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	48.57%	
48) SURR5,2-FLUOROBIPHENYL	6.994	172	621654	50.62	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	50.62%	
67) SURR3,2,4,6-TRIBROMOPH...	8.441	330	307901	185.79	ppm	-0.02	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	92.89%	
85) SURR6,TERPHENYL-D14	10.818	244	1172179	100.62	ppm	-0.03	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	100.62%	
Target Compounds							Qvalue
81) Fluoranthene	10.364	202	22408	1.438	ppm		96
84) Pyrene	10.631	202	19212	1.197	ppm		94

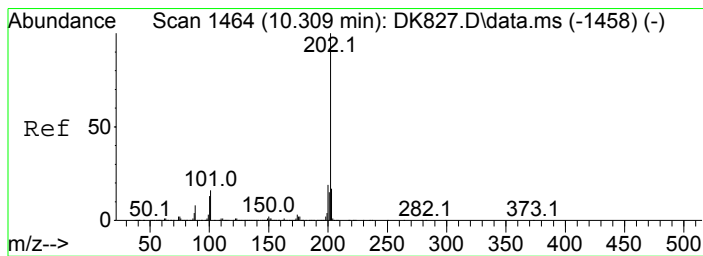
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL995.D  
Acq On : 22 Feb 2018 5:46 pm  
Operator : J.Misiurewicz  
Sample : R1801453-005  
Misc : 308725 8270D SOIL  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 26 14:56:41 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration

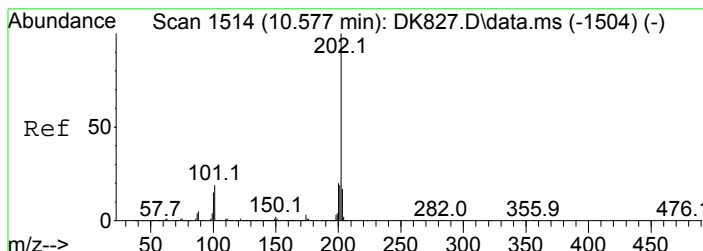
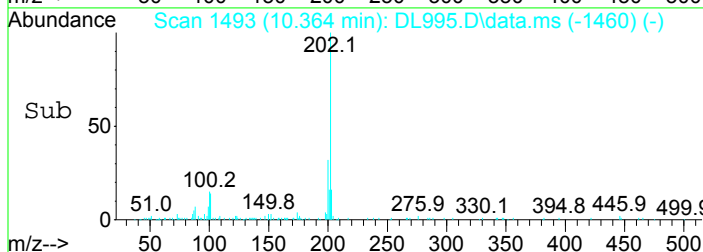
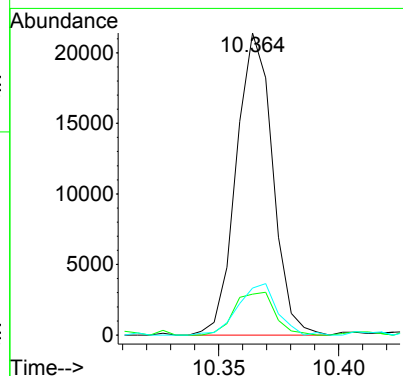
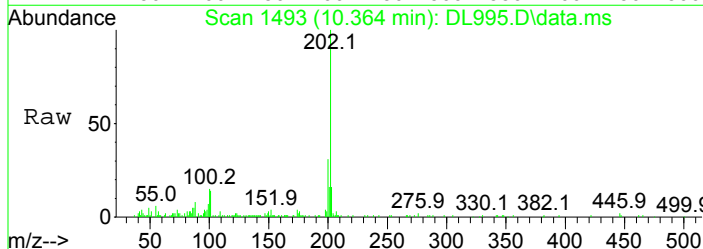






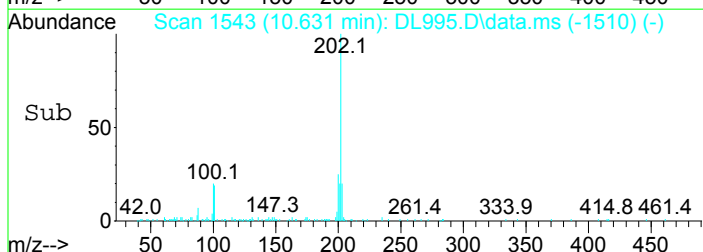
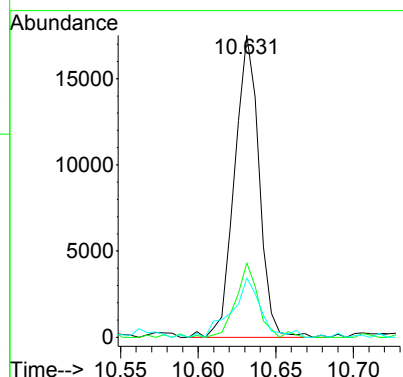
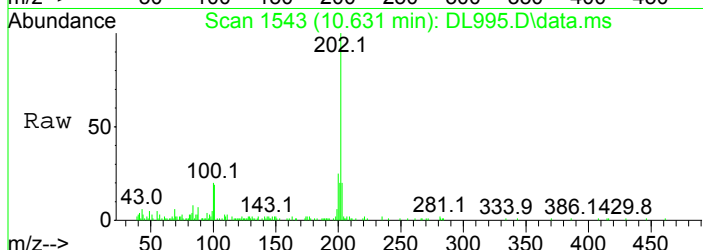
#81  
 Fluoranthene  
 Concen: 1.44 ppm  
 RT: 10.364 min Scan# 1493  
 Delta R.T. -0.025 min  
 Lab File: DL995.D  
 Acq: 22 Feb 2018 5:46 pm

Tgt Ion	Resp	Lower	Upper
202	100		
101	13.6	0.0	35.1
203	15.6	0.0	37.7



#84  
 Pyrene  
 Concen: 1.20 ppm  
 RT: 10.631 min Scan# 1543  
 Delta R.T. -0.025 min  
 Lab File: DL995.D  
 Acq: 22 Feb 2018 5:46 pm

Tgt Ion	Resp	Lower	Upper
202	100		
200	24.7	1.7	41.7
203	19.7	0.0	37.6



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL996.D  
 Acq On : 22 Feb 2018 6:13 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-006  
 Misc : 308725 8270D SOIL  
 ALS Vial : 11 Sample Multiplier: 1

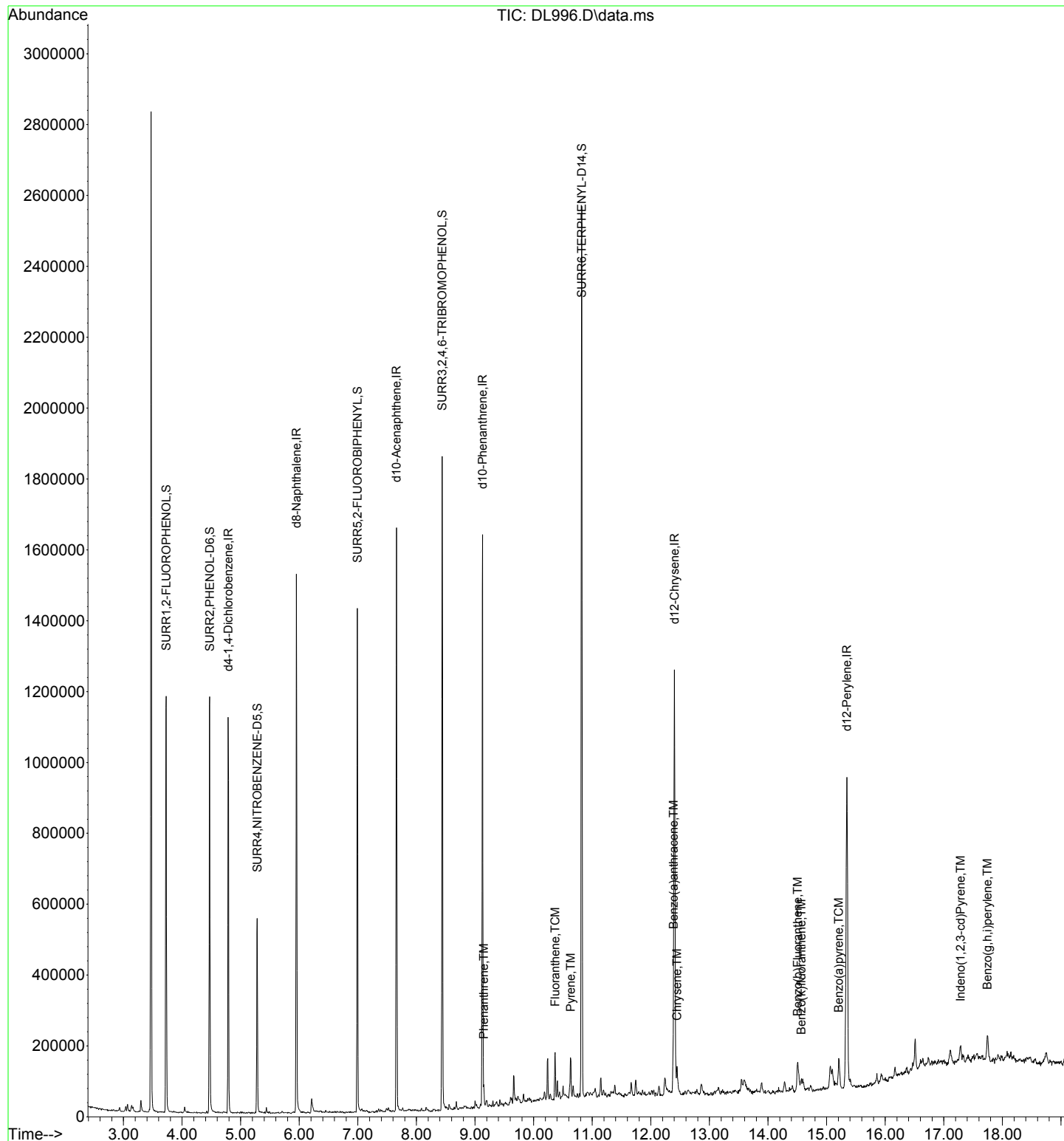
Quant Time: Feb 26 14:56:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

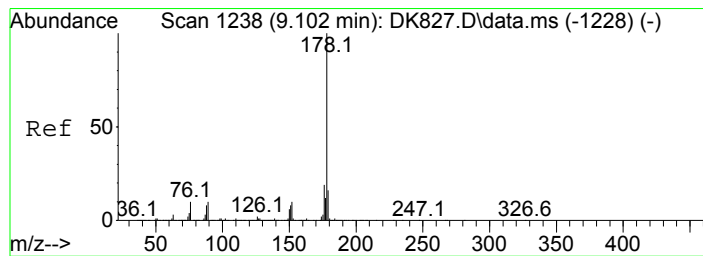
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.786	152	185171	40.00	ppm	-0.02
24) d8-Naphthalene	5.950	136	695823	40.00	ppm	-0.02
42) d10-Acenaphthene	7.660	164	332329	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	588795	40.00	ppm	-0.02
82) d12-Chrysene	12.402	240	536442	40.00	ppm	-0.03
91) d12-Perylene	15.345	264	552557	40.00	ppm	-0.04
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.728	112	414871	69.18	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	34.59%		
8) SURR2,PHENOL-D6	4.471	99	514987	69.27	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	34.63%		
25) SURR4,NITROBENZENE-D5	5.283	82	191346	37.39	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	37.39%		
48) SURR5,2-FLUOROBIPHENYL	6.992	172	410323	34.94	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	34.94%		
67) SURR3,2,4,6-TRIBROMOPH...	8.439	330	241825	152.59	ppm	-0.02
Spiked Amount 200.000	Range 10	- 109	Recovery =	76.30%		
85) SURR6,TERPHENYL-D14	10.821	244	982148	85.25	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	85.25%		
<b>Target Compounds</b>						
77) Phenanthrene	9.150	178	17795	1.152	ppm	97
81) Fluoranthene	10.367	202	55734	3.528	ppm	97
84) Pyrene	10.629	202	52303	3.295	ppm	95
88) Benzo(a)anthracene	12.386	228	37194	2.475	ppm	94
89) Chrysene	12.445	228	42511	3.026	ppm	94
93) Benzo(b)Fluoranthene	14.507	252	67728	4.317	ppm	88
94) Benzo(k)fluoranthene	14.566	252	19209	1.295	ppm	91
95) Benzo(a)pyrene	15.206	252	43820	3.248	ppm	92
96) Indeno(1,2,3-cd)Pyrene	17.284	276	29773	2.354	ppm	80
98) Benzo(g,h,i)perylene	17.743	276	34707	2.744	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL996.D  
Acq On : 22 Feb 2018 6:13 pm  
Operator : J.Misiurewicz  
Sample : R1801453-006  
Misc : 308725 8270D SOIL  
ALS Vial : 11 Sample Multiplier: 1

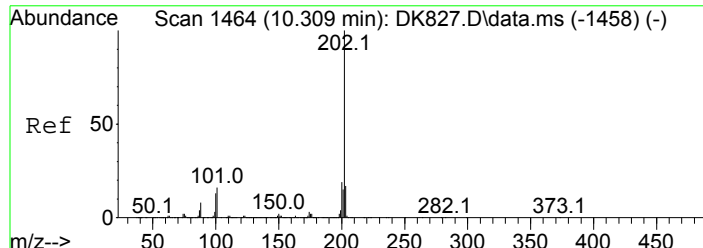
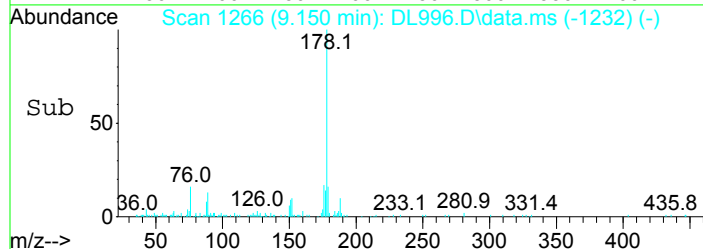
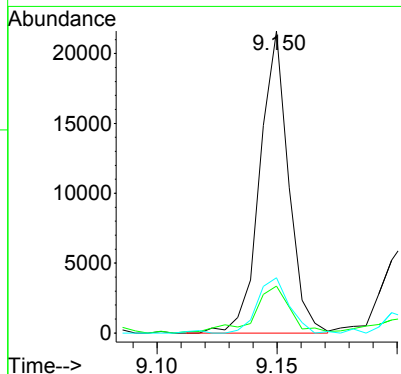
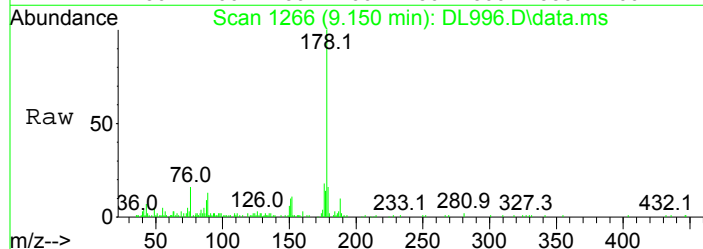
Quant Time: Feb 26 14:56:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





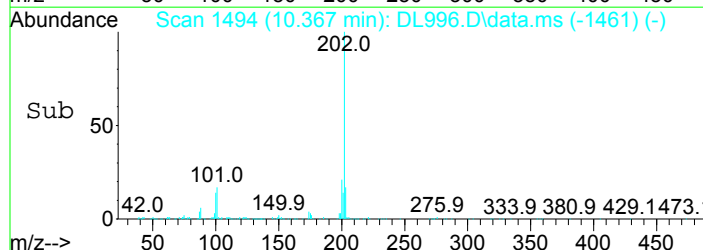
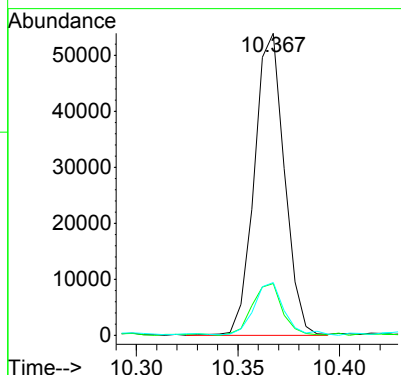
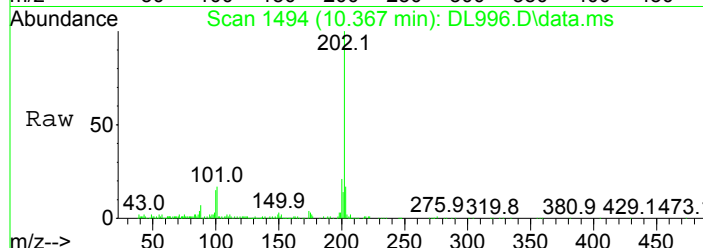
#77  
 Phenanthrene  
 Concen: 1.15 ppm  
 RT: 9.150 min Scan# 1266  
 Delta R.T. -0.020 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

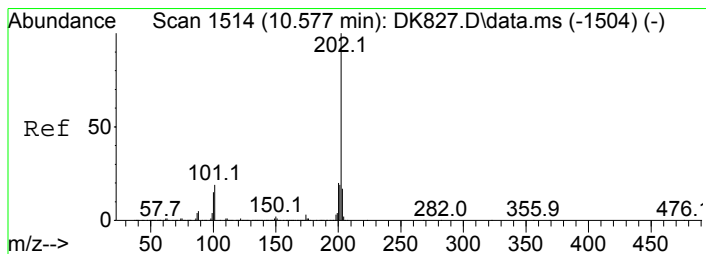
Tgt Ion	Resp	Lower	Upper
178	17795		
179	15.1	0.0	36.3
176	17.9	0.0	39.7



#81  
 Fluoranthene  
 Concen: 3.53 ppm  
 RT: 10.367 min Scan# 1494  
 Delta R.T. -0.022 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

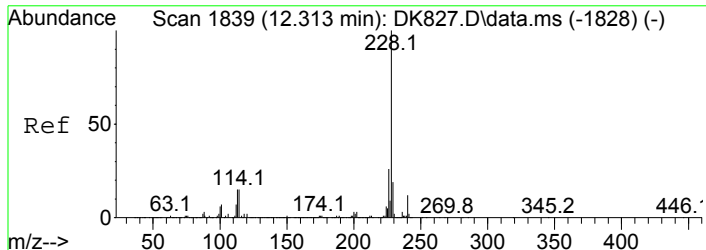
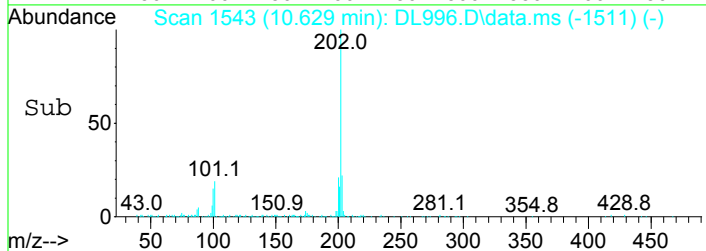
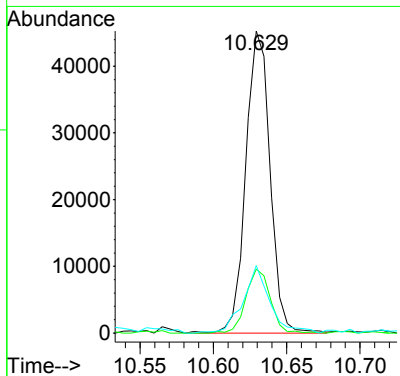
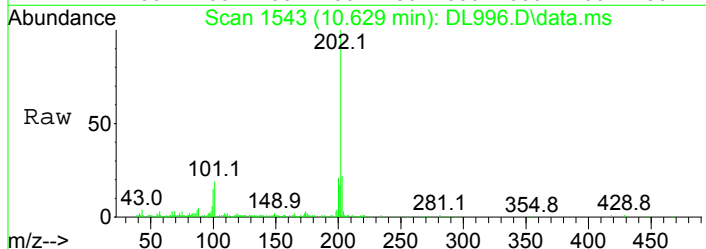
Tgt Ion	Resp	Lower	Upper
202	55734		
101	17.0	0.0	35.1
203	17.0	0.0	37.7





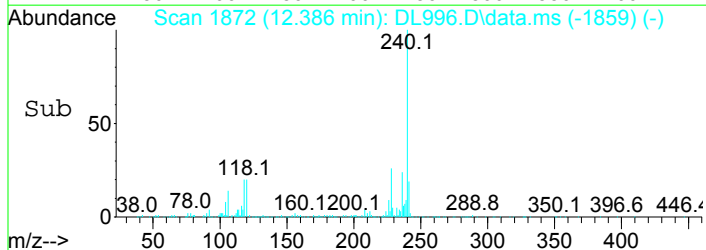
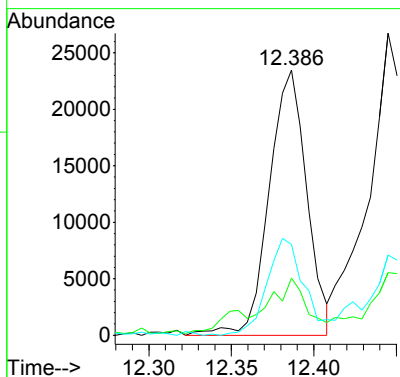
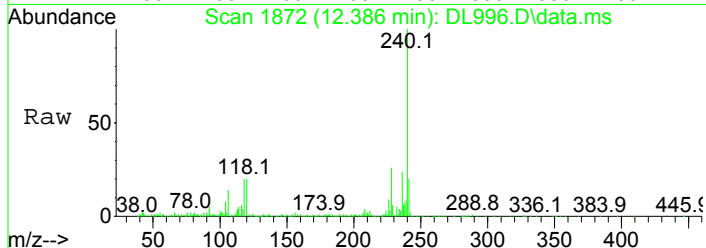
#84  
 Pyrene  
 Concen: 3.30 ppm  
 RT: 10.629 min Scan# 1543  
 Delta R.T. -0.027 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

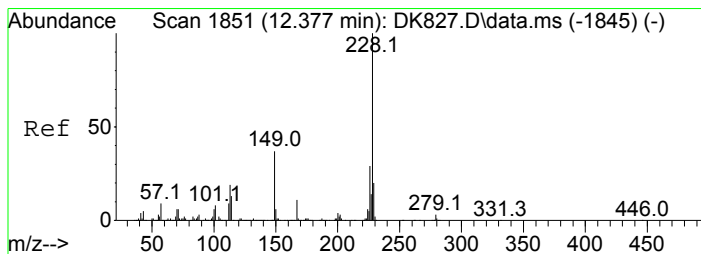
Tgt Ion	Resp	Lower	Upper
202	52303		
200	21.2	1.7	41.7
203	21.9	0.0	37.6



#88  
 Benzo(a)anthracene  
 Concen: 2.48 ppm  
 RT: 12.386 min Scan# 1872  
 Delta R.T. -0.031 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

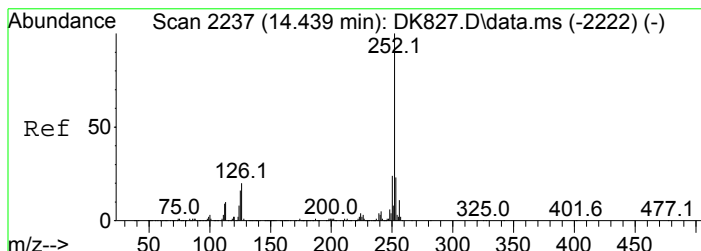
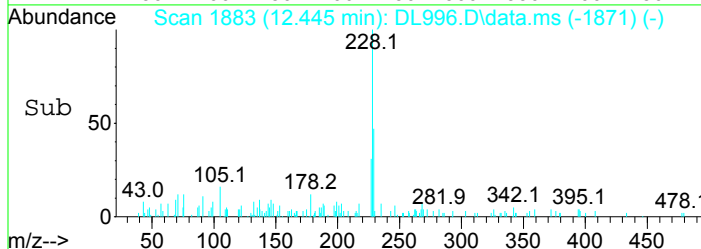
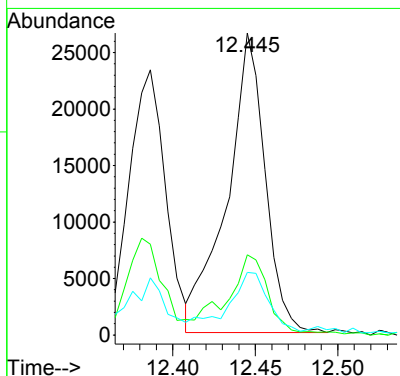
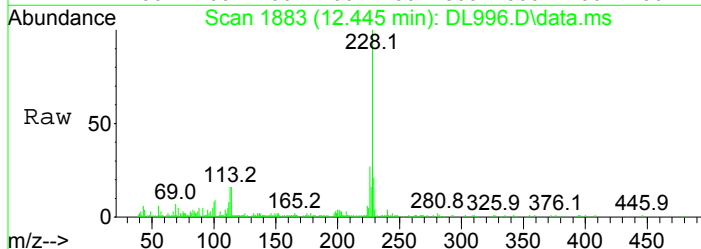
Tgt Ion	Resp	Lower	Upper
228	37194		
229	20.0	0.0	39.4
226	32.4	7.9	47.9





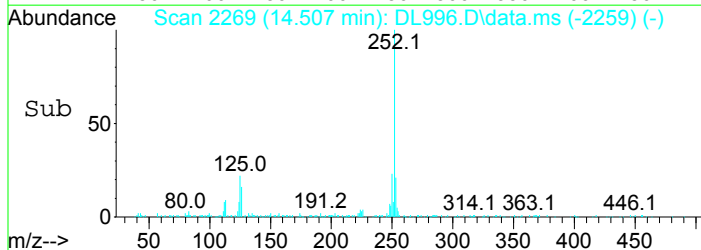
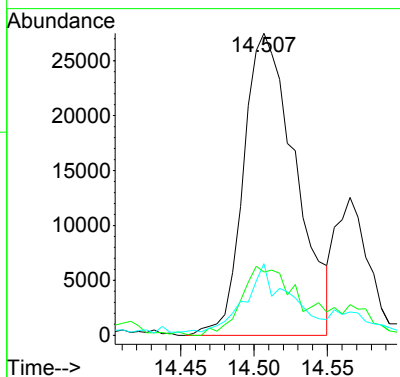
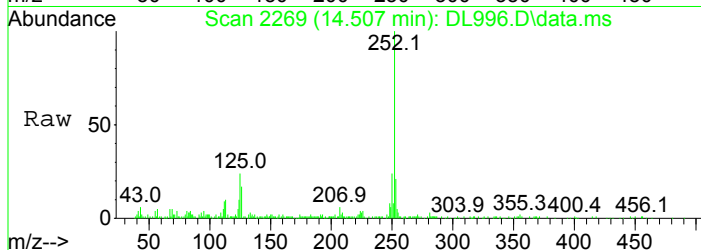
#89  
 Chrysene  
 Concen: 3.03 ppm  
 RT: 12.445 min Scan# 1883  
 Delta R.T. -0.038 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

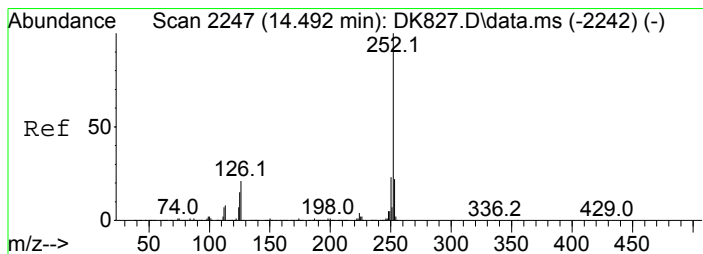
Tgt Ion	Resp	Lower	Upper
228	42511		
226	24.8	9.9	49.9
229	18.8	0.0	39.5



#93  
 Benzo(b)Fluoranthene  
 Concen: 4.32 ppm  
 RT: 14.507 min Scan# 2269  
 Delta R.T. -0.048 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

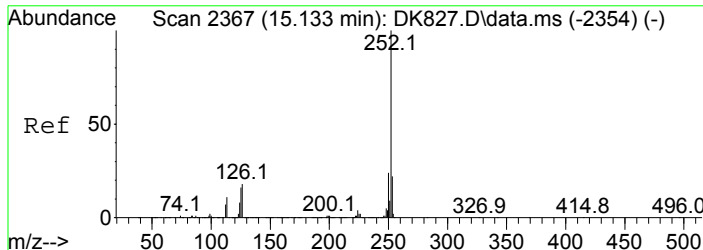
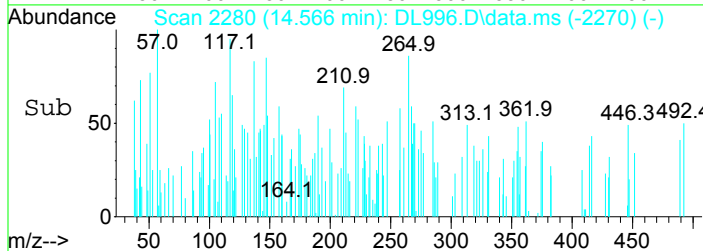
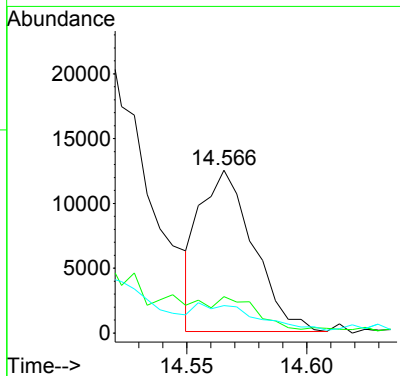
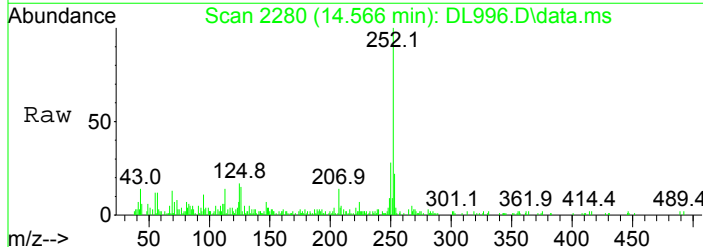
Tgt Ion	Resp	Lower	Upper
252	67728		
253	18.5	4.1	44.1
125	23.2	0.0	37.3





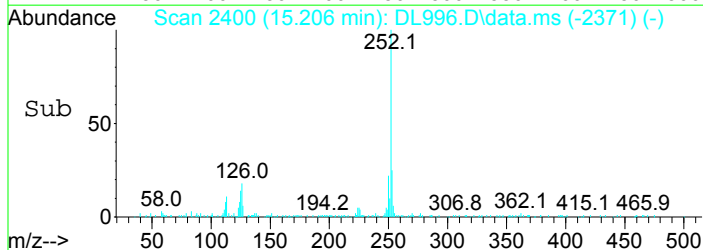
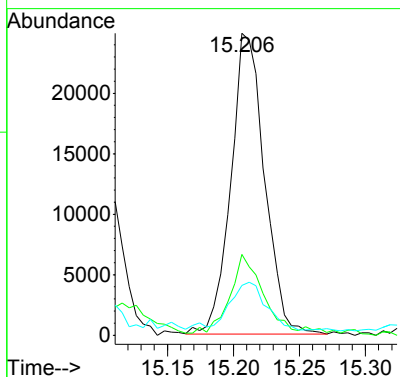
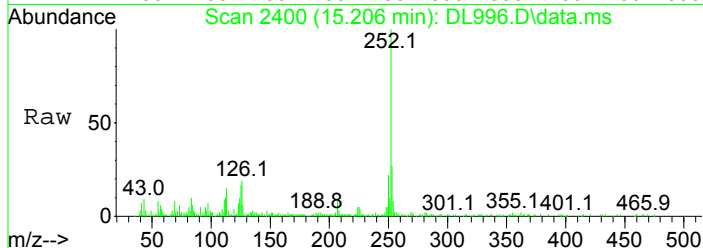
#94  
 Benzo(k)fluoranthene  
 Concen: 1.29 ppm  
 RT: 14.566 min Scan# 2280  
 Delta R.T. -0.046 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

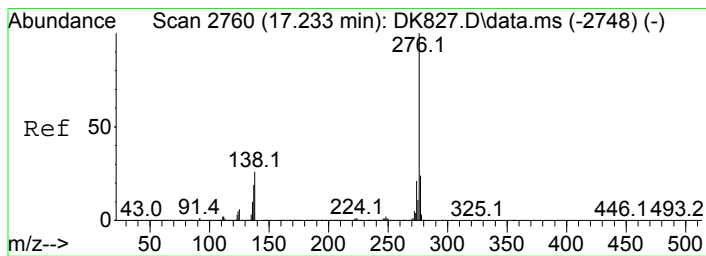
Tgt Ion	Resp	Lower	Upper
252	100		
253	14.9	1.1	41.1
125	13.9	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 3.25 ppm  
 RT: 15.206 min Scan# 2400  
 Delta R.T. -0.047 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

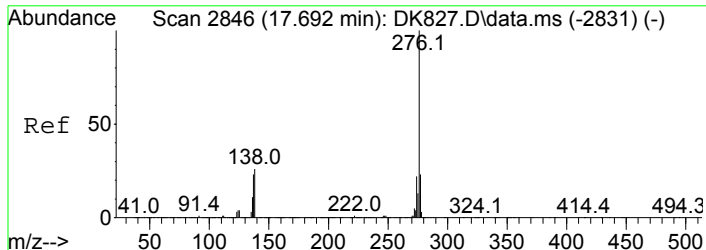
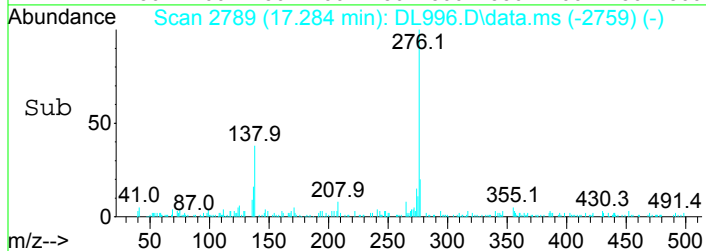
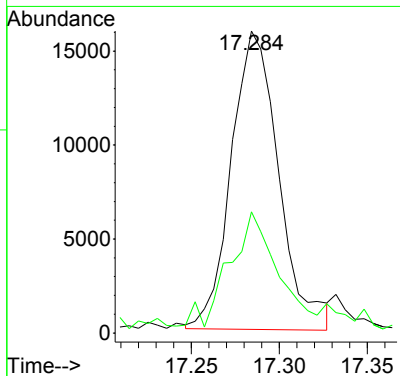
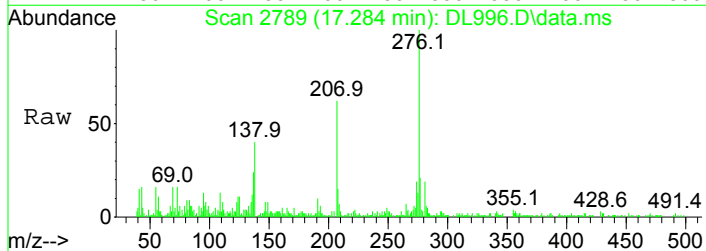
Tgt Ion	Resp	Lower	Upper
252	100		
253	26.1	1.3	41.3
125	14.5	0.0	36.3





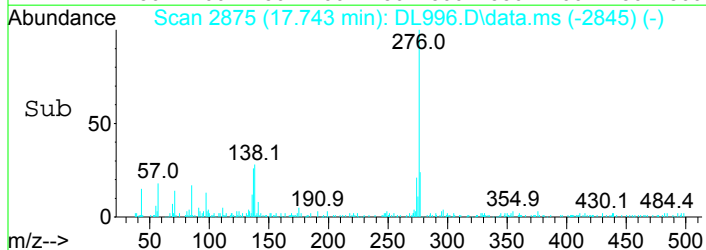
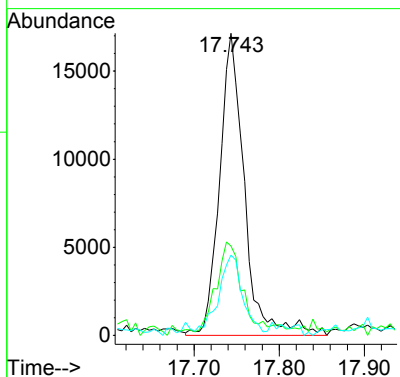
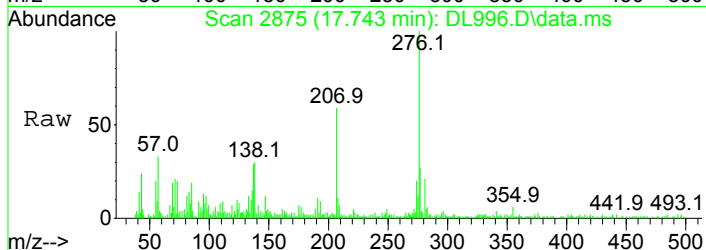
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 2.35 ppm  
 RT: 17.284 min Scan# 2789  
 Delta R.T. -0.038 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

Tgt Ion	Resp	Lower	Upper
276	29773		
138	36.3	6.0	46.0



#98  
 Benzo(g,h,i)perylene  
 Concen: 2.74 ppm  
 RT: 17.743 min Scan# 2875  
 Delta R.T. -0.039 min  
 Lab File: DL996.D  
 Acq: 22 Feb 2018 6:13 pm

Tgt Ion	Resp	Lower	Upper
276	34707		
138	28.2	10.9	50.9
277	23.6	4.0	44.0





Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL997.D  
 Acq On : 22 Feb 2018 6:41 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-007  
 Misc : 308725 8270D SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 26 14:56:50 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

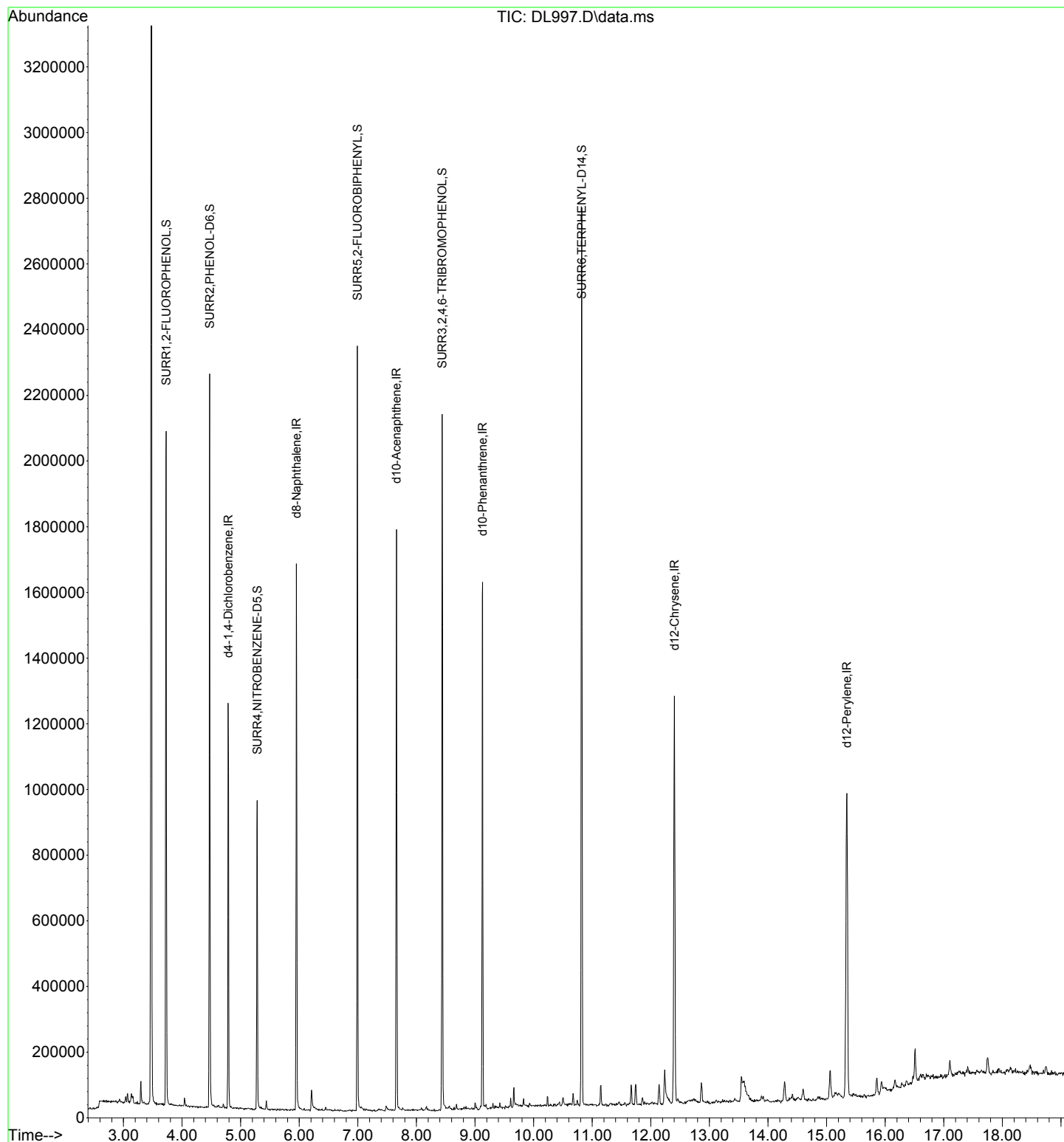
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.787	152	202875	40.00	ppm	-0.02
24) d8-Naphthalene	5.951	136	759386	40.00	ppm	-0.02
42) d10-Acenaphthene	7.660	164	361183	40.00	ppm	-0.02
69) d10-Phenanthrene	9.129	188	600972	40.00	ppm	-0.02
82) d12-Chrysene	12.403	240	564159	40.00	ppm	-0.03
91) d12-Perylene	15.346	264	612271	40.00	ppm	-0.04
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.729	112	698897	106.37	ppm	0.00
Spiked Amount 200.000	Range 16 - 129		Recovery =	53.19%		
8) SURR2,PHENOL-D6	4.471	99	911515	111.90	ppm	0.00
Spiked Amount 200.000	Range 10 - 145		Recovery =	55.95%		
25) SURR4,NITROBENZENE-D5	5.283	82	318573	57.03	ppm	-0.01
Spiked Amount 100.000	Range 11 - 91		Recovery =	57.03%		
48) SURR5,2-FLUOROBIPHENYL	6.992	172	666515	52.22	ppm	-0.02
Spiked Amount 100.000	Range 14 - 102		Recovery =	52.22%		
67) SURR3,2,4,6-TRIBROMOPH...	8.440	330	281830	163.63	ppm	-0.02
Spiked Amount 200.000	Range 10 - 109		Recovery =	81.81%		
85) SURR6,TERPHENYL-D14	10.822	244	1033853	85.33	ppm	-0.02
Spiked Amount 100.000	Range 16 - 120		Recovery =	85.33%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL997.D  
Acq On : 22 Feb 2018 6:41 pm  
Operator : J.Misiurewicz  
Sample : R1801453-007  
Misc : 308725 8270D SOIL  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 26 14:56:50 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL998.D  
 Acq On : 22 Feb 2018 7:09 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-008  
 Misc : 308725 8270D SOIL  
 ALS Vial : 13 Sample Multiplier: 1

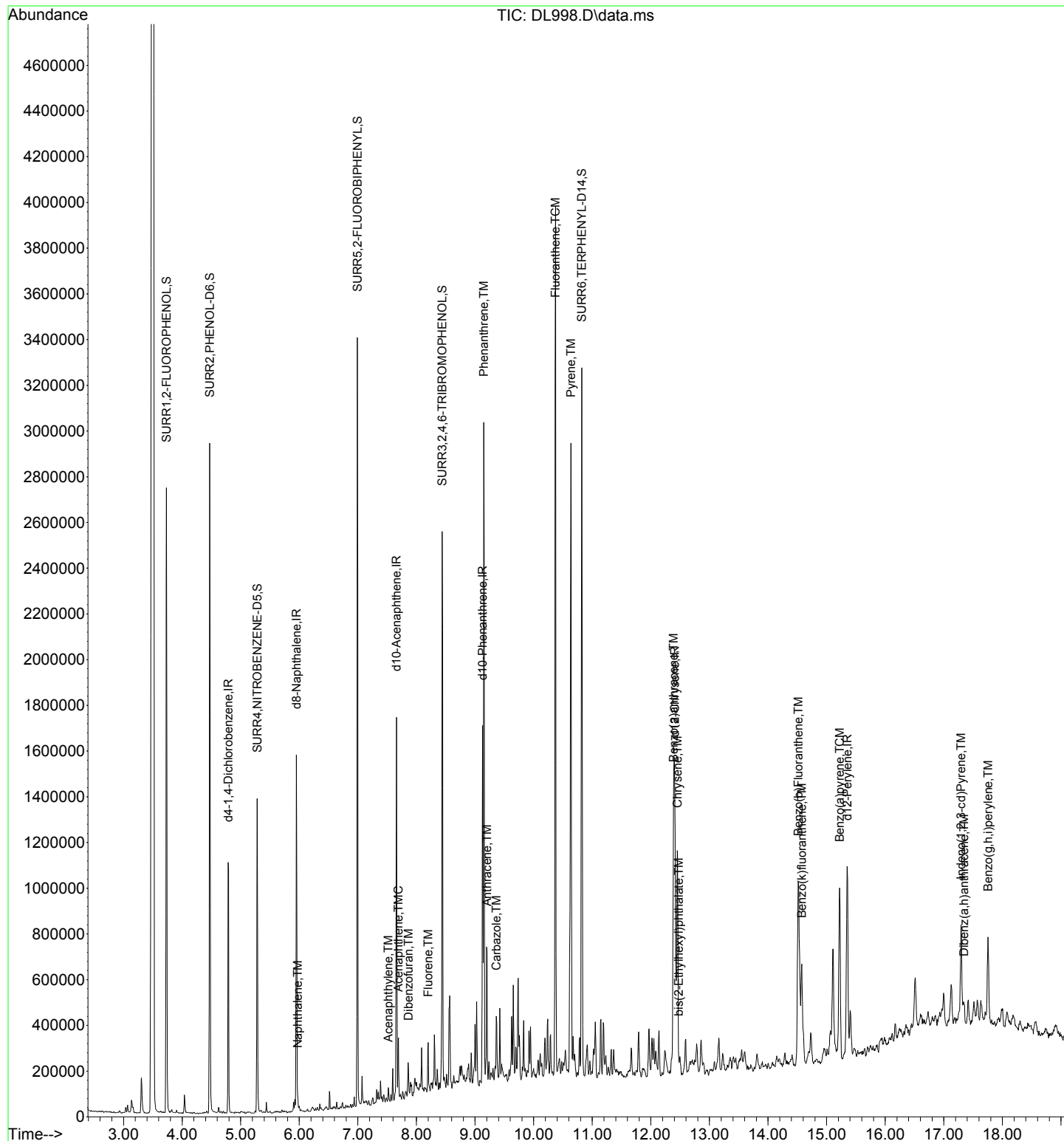
Quant Time: Feb 26 14:56:55 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

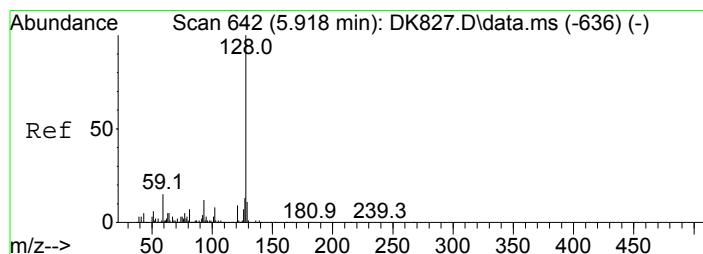
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.791	152	190589	40.00	ppm	-0.01
24) d8-Naphthalene	5.950	136	714066	40.00	ppm	-0.02
42) d10-Acenaphthene	7.659	164	328605	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	552546	40.00	ppm	-0.02
82) d12-Chrysene	12.408	240	529964	40.00	ppm	-0.03
91) d12-Perylene	15.350	264	551110	40.00	ppm	-0.03
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.734	112	936457	151.72	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	75.86%		
8) SURR2,PHENOL-D6	4.471	99	1216463	158.97	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	79.48%		
25) SURR4,NITROBENZENE-D5	5.283	82	441276	84.02	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	84.02%		
48) SURR5,2-FLUOROBIPHENYL	6.992	172	988695	85.14	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	85.14%		
67) SURR3,2,4,6-TRIBROMOPH...	8.439	330	319942	204.17	ppm	-0.02
Spiked Amount 200.000	Range 10	- 109	Recovery =	102.09%		
85) SURR6,TERPHENYL-D14	10.821	244	1138057	100.00	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	100.00%		
<b>Target Compounds</b>						
34) Naphthalene	5.972	128	19466	1.097	ppm	96
52) Acenaphthylene	7.520	152	18644	1.168	ppm	95
55) Acenaphthene	7.691	153	61225	5.610	ppm	95
58) Dibenzofuran	7.862	168	41812	3.101	ppm	96
63) Fluorene	8.199	166	55902	5.019	ppm	94
77) Phenanthrene	9.150	178	1033369	71.260	ppm	98
78) Anthracene	9.203	178	244824	16.922	ppm	95
79) Carbazole	9.363	167	111291	7.443	ppm	100
81) Fluoranthene	10.373	202	1508498	101.765	ppm	98
84) Pyrene	10.634	202	1274424	81.276	ppm	98
88) Benzo(a)anthracene	12.386	228	613322	41.318	ppm	98
89) Chrysene	12.456	228	590090	42.512	ppm	98
90) bis(2-Ethylhexyl)phtha...	12.477	149	13257	1.163	ppm	91
93) Benzo(b)Fluoranthene	14.517	252	708283	45.260	ppm	93
94) Benzo(k)fluoranthene	14.576	252	259682	17.553	ppm	98
95) Benzo(a)pyrene	15.222	252	482997	35.890	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.295	276	269917	21.398	ppm	98
97) Dibenz(a,h)anthracene	17.343	278	70080	5.082	ppm	94
98) Benzo(g,h,i)perylene	17.754	276	222548	17.639	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL998.D  
Acq On : 22 Feb 2018 7:09 pm  
Operator : J.Misiurewicz  
Sample : R1801453-008  
Misc : 308725 8270D SOIL  
ALS Vial : 13 Sample Multiplier: 1

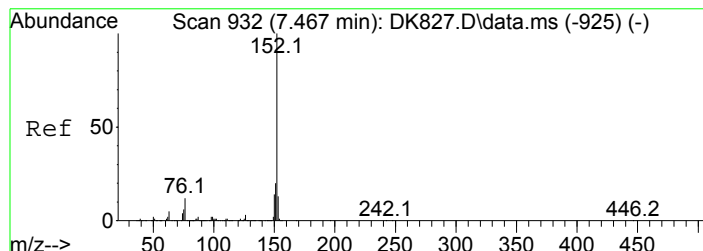
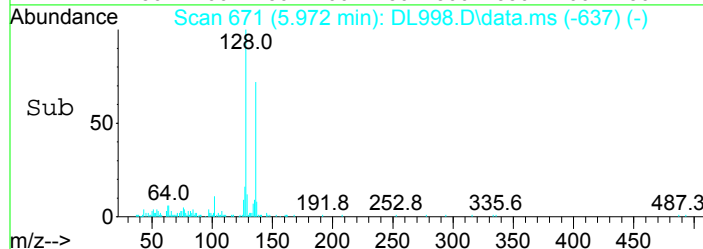
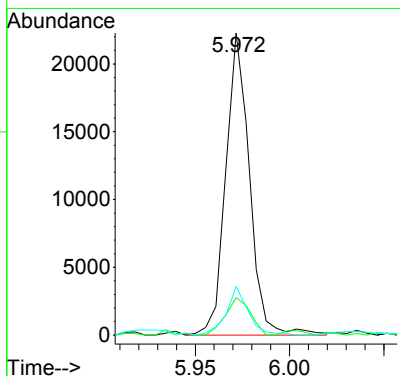
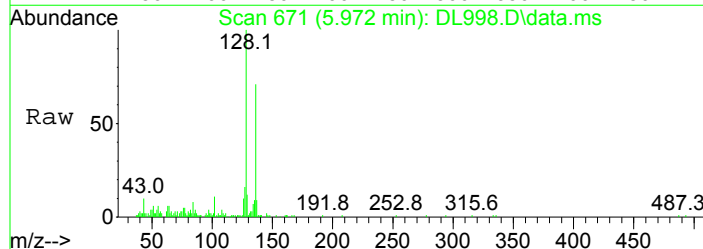
Quant Time: Feb 26 14:56:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





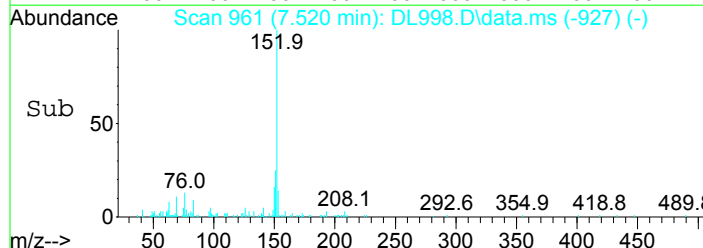
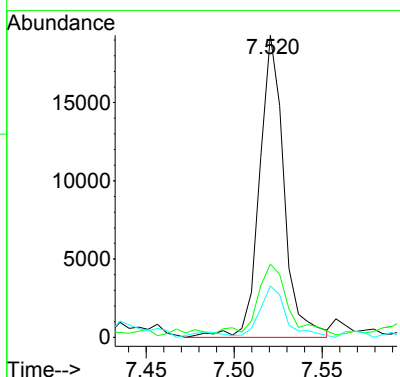
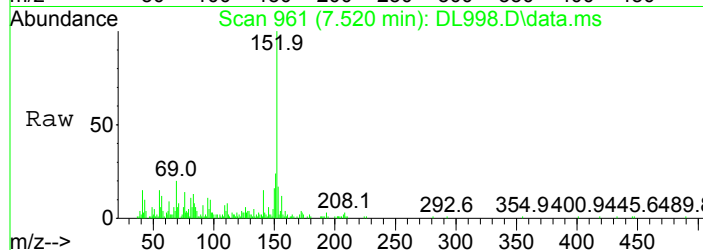
#34  
 Naphthalene  
 Concen: 1.10 ppm  
 RT: 5.972 min Scan# 671  
 Delta R.T. -0.018 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

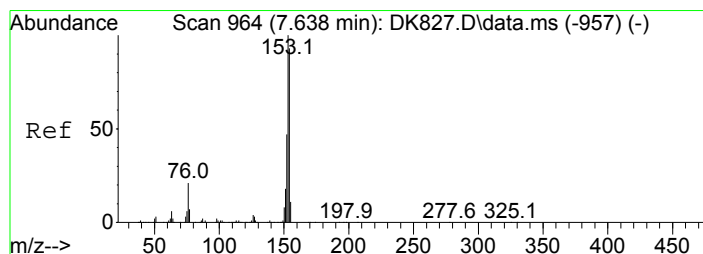
Tgt Ion	Resp	Lower	Upper
128	19466		
129	11.7	0.0	31.3
127	15.5	0.0	33.1



#52  
 Acenaphthylene  
 Concen: 1.17 ppm  
 RT: 7.520 min Scan# 961  
 Delta R.T. -0.019 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

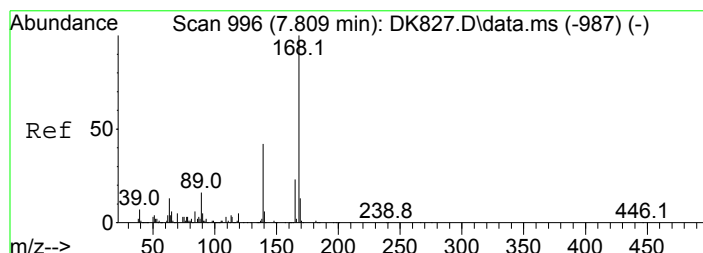
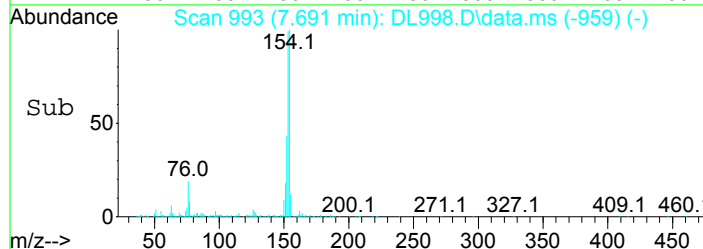
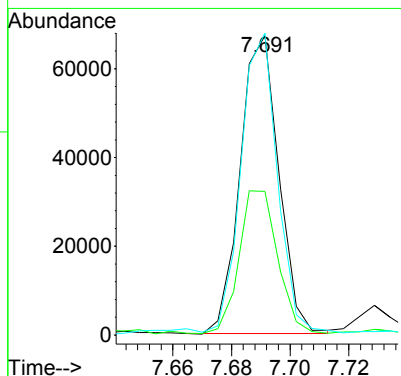
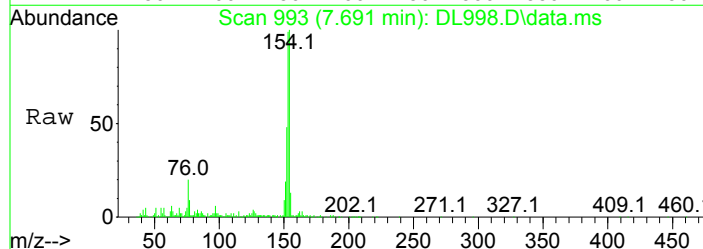
Tgt Ion	Resp	Lower	Upper
152	18644		
151	22.7	0.6	40.6
153	16.6	0.0	33.9





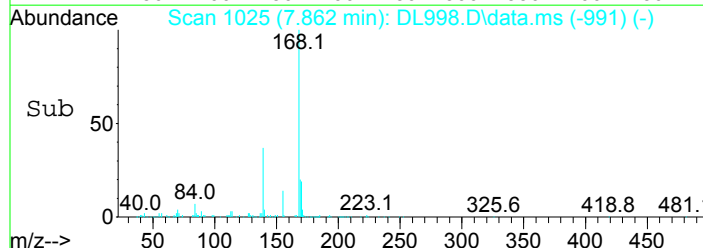
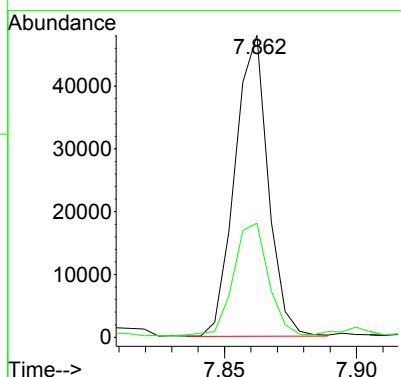
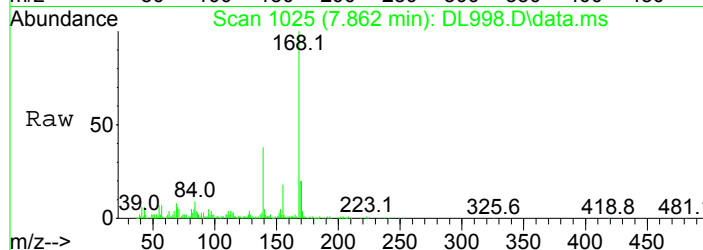
#55  
 Acenaphthene  
 Concen: 5.61 ppm  
 RT: 7.691 min Scan# 993  
 Delta R.T. -0.018 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

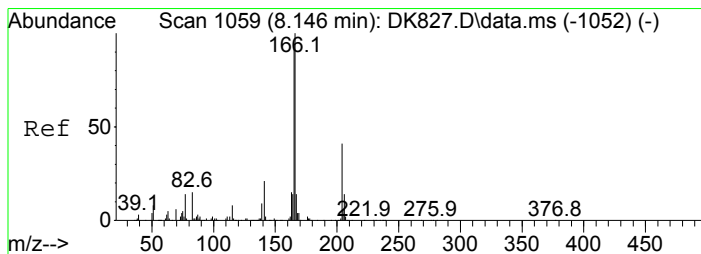
Tgt Ion	Resp	Lower	Upper
153	100		
152	47.8	28.0	68.0
154	100.0	72.5	112.5



#58  
 Dibenzofuran  
 Concen: 3.10 ppm  
 RT: 7.862 min Scan# 1025  
 Delta R.T. -0.016 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

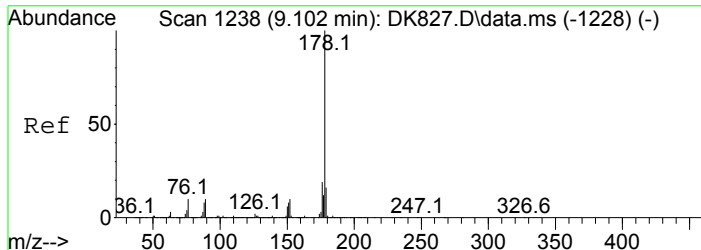
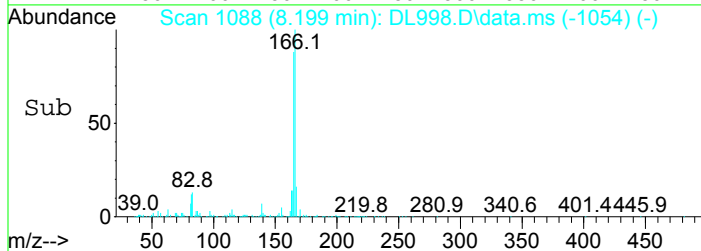
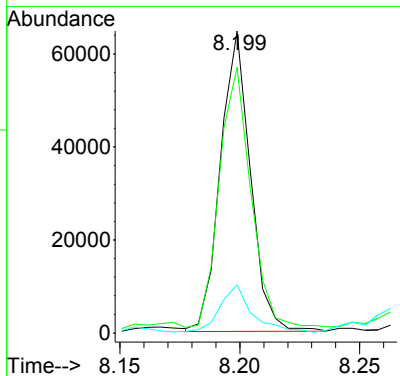
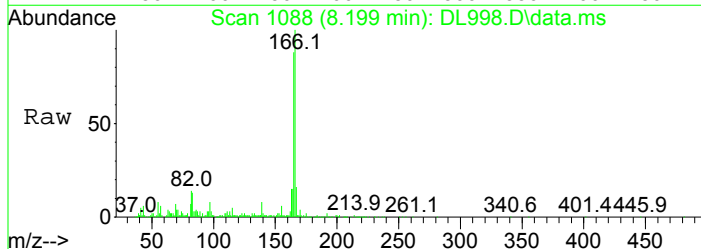
Tgt Ion	Resp	Lower	Upper
168	100		
139	36.6	14.2	54.2





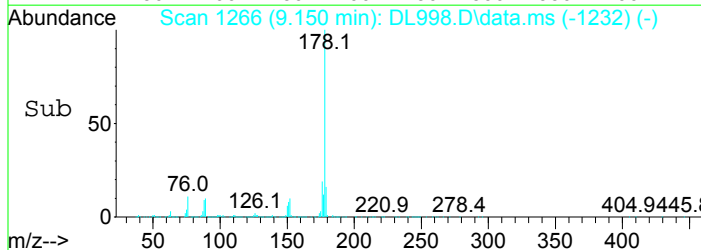
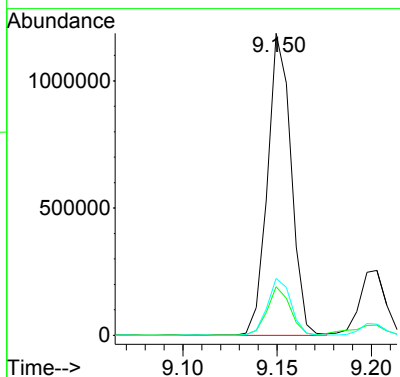
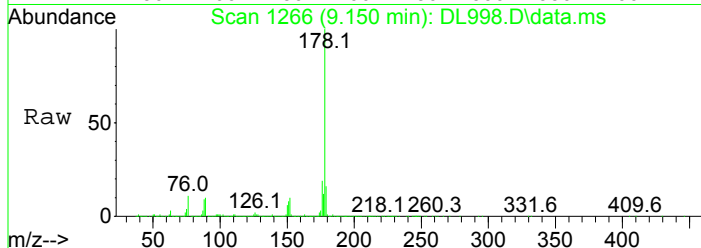
#63  
 Fluorene  
 Concen: 5.02 ppm  
 RT: 8.199 min Scan# 1088  
 Delta R.T. -0.018 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

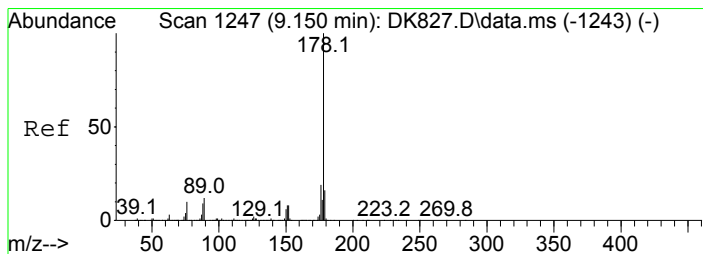
Tgt Ion	Resp	Lower	Upper
166	100		
165	87.0	62.8	122.8
167	15.4	0.0	43.9



#77  
 Phenanthrene  
 Concen: 71.26 ppm  
 RT: 9.150 min Scan# 1266  
 Delta R.T. -0.020 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

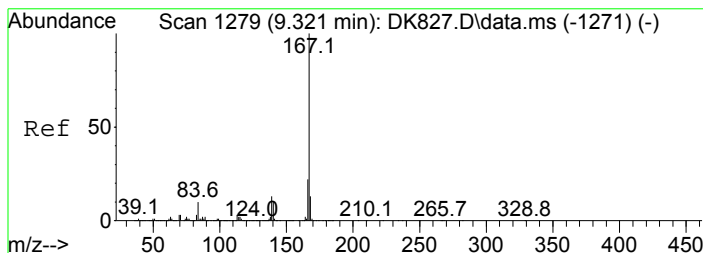
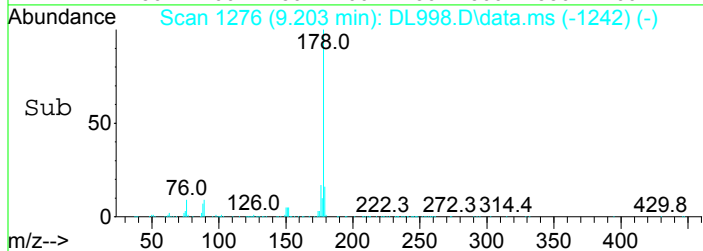
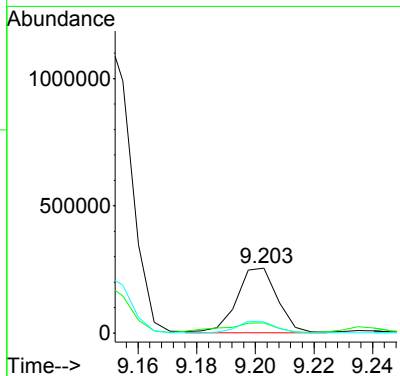
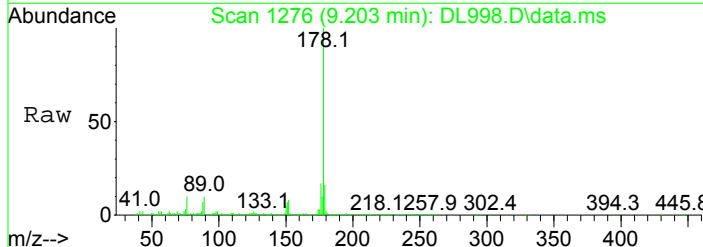
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.8	0.0	36.3
176	18.9	0.0	39.7





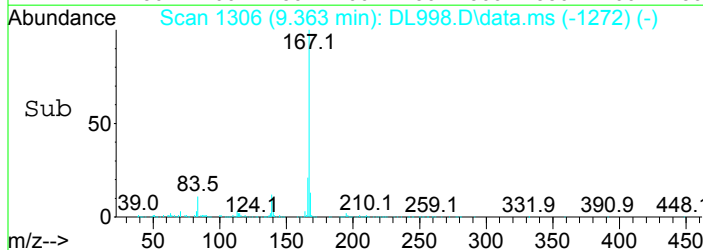
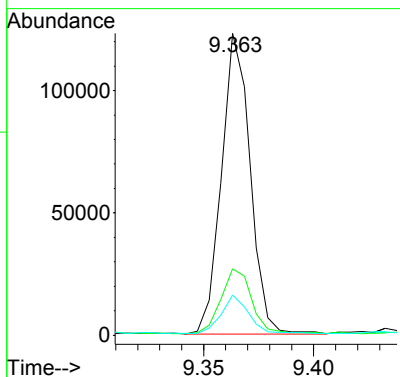
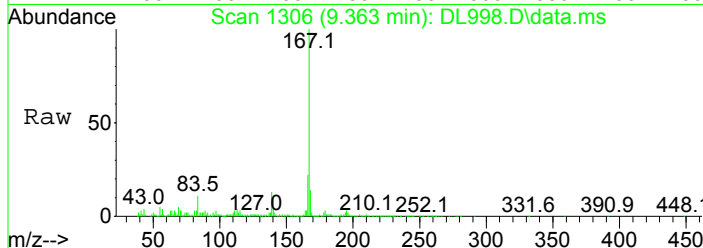
#78  
 Anthracene  
 Concen: 16.92 ppm  
 RT: 9.203 min Scan# 1276  
 Delta R.T. -0.017 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

Tgt Ion	Resp	Lower	Upper
178	100		
179	13.8	0.0	36.2
176	17.3	0.0	39.4

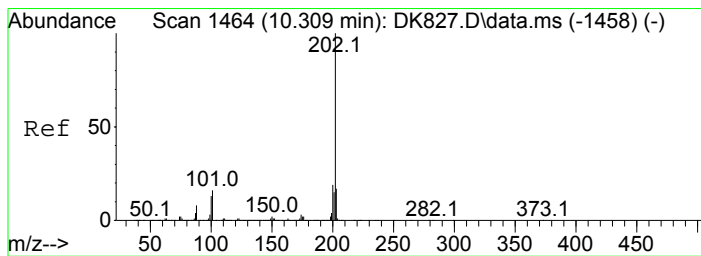


#79  
 Carbazole  
 Concen: 7.44 ppm  
 RT: 9.363 min Scan# 1306  
 Delta R.T. -0.017 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

Tgt Ion	Resp	Lower	Upper
167	100		
166	21.5	1.7	41.7
139	12.8	0.0	32.8

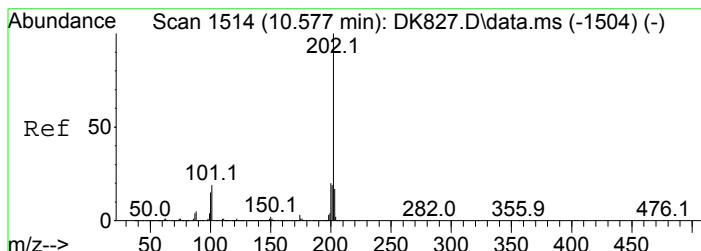
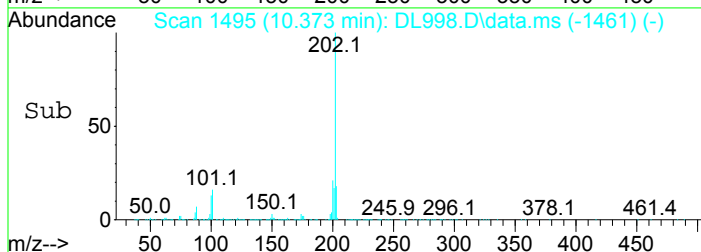
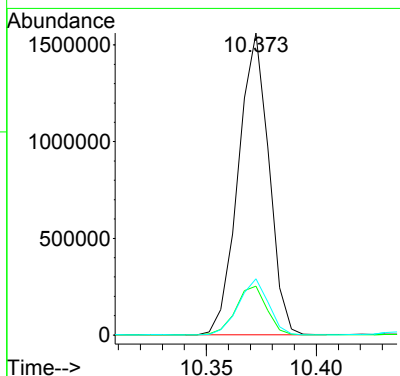
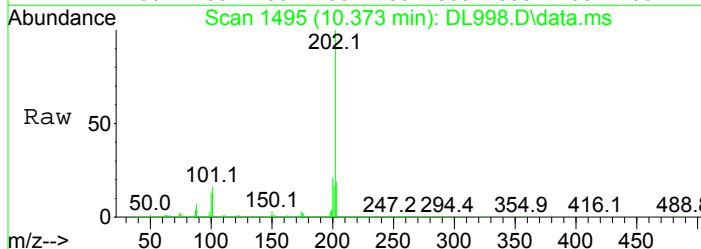






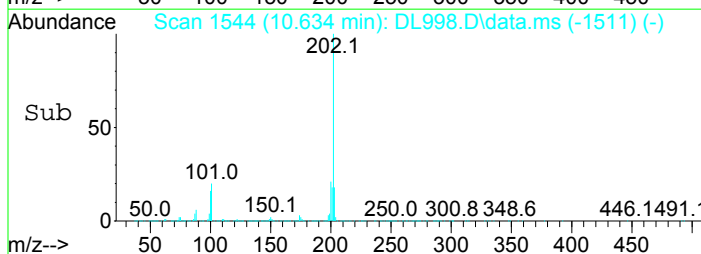
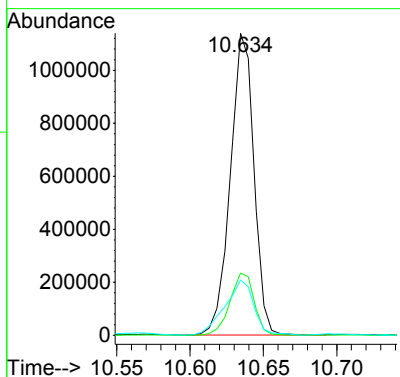
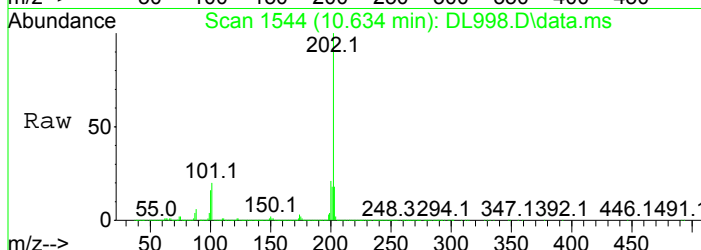
#81  
 Fluoranthene  
 Concen: 101.76 ppm  
 RT: 10.373 min Scan# 1495  
 Delta R.T. -0.017 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

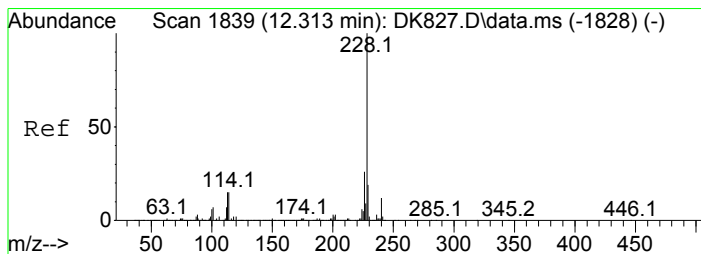
Tgt Ion	Resp	Lower	Upper
202	1508498		
101	16.1	0.0	35.1
203	18.6	0.0	37.7



#84  
 Pyrene  
 Concen: 81.28 ppm  
 RT: 10.634 min Scan# 1544  
 Delta R.T. -0.022 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

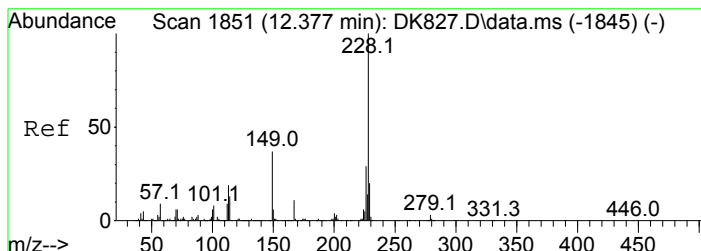
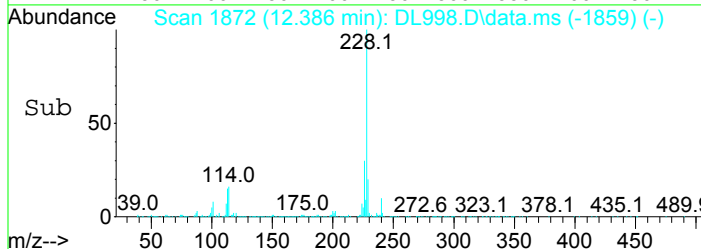
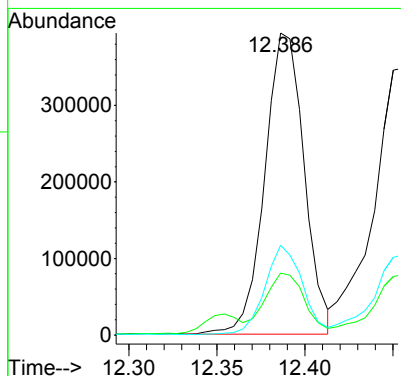
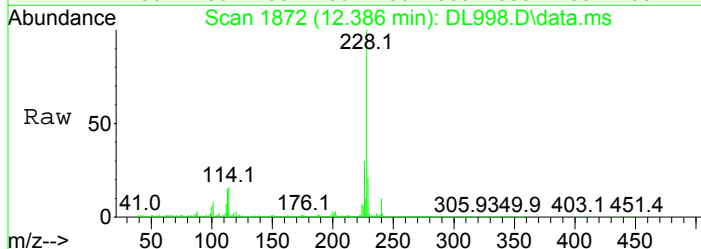
Tgt Ion	Resp	Lower	Upper
202	1274424		
200	20.6	1.7	41.7
203	18.1	0.0	37.6





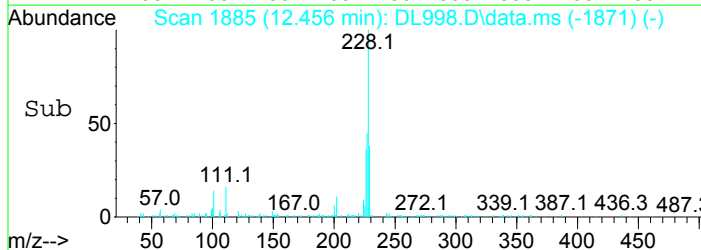
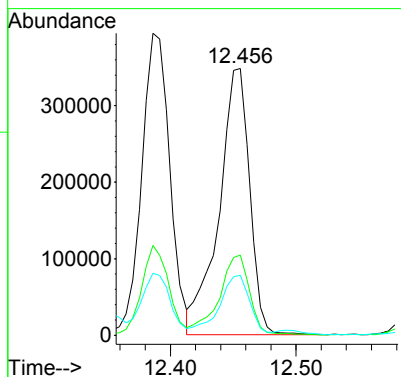
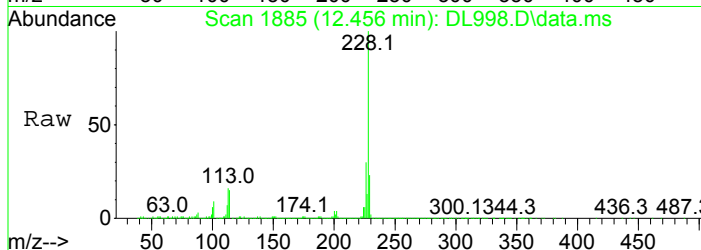
#88  
 Benzo(a)anthracene  
 Concen: 41.32 ppm  
 RT: 12.386 min Scan# 1872  
 Delta R.T. -0.031 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

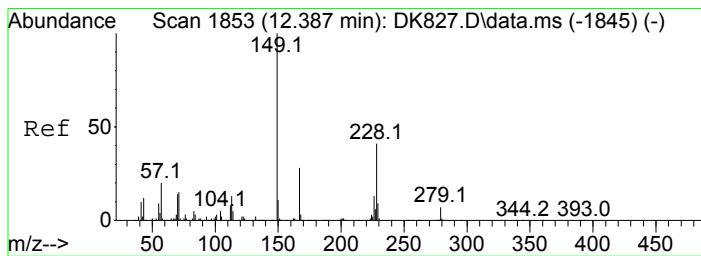
Tgt Ion	Resp	Lower	Upper
228	613322		
229	19.8	0.0	39.4
226	29.7	7.9	47.9



#89  
 Chrysene  
 Concen: 42.51 ppm  
 RT: 12.456 min Scan# 1885  
 Delta R.T. -0.027 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

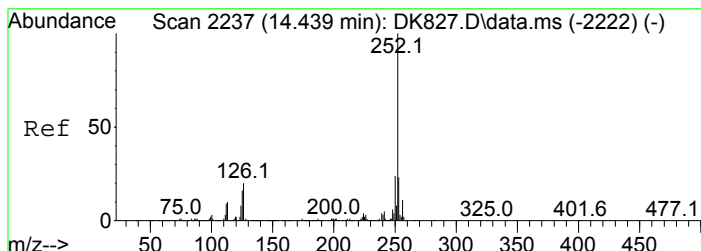
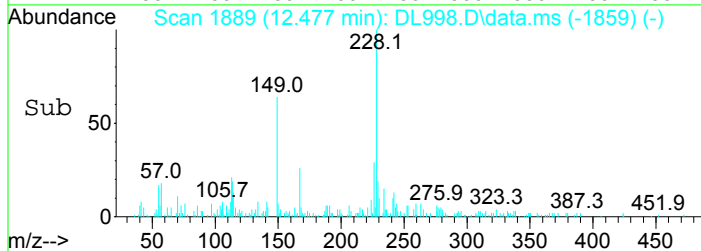
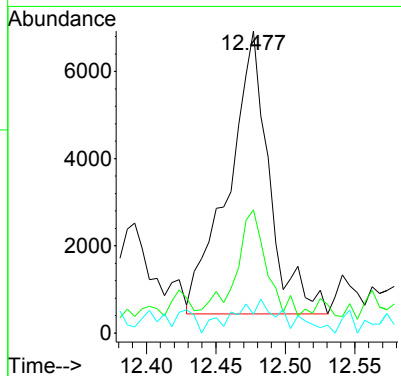
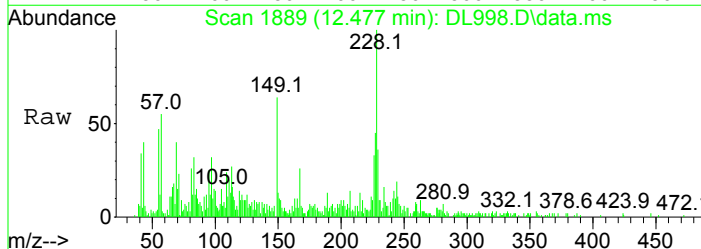
Tgt Ion	Resp	Lower	Upper
228	590090		
226	30.0	9.9	49.9
229	22.3	0.0	39.5





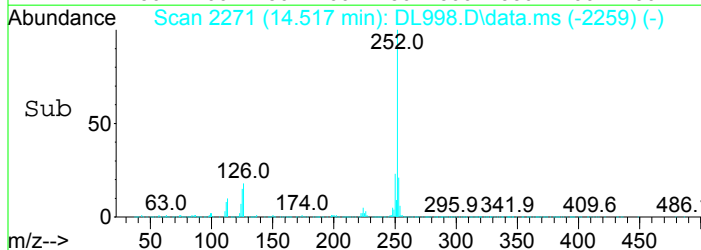
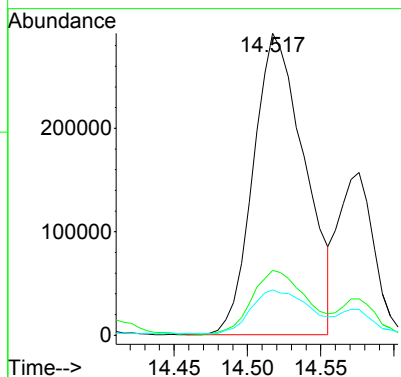
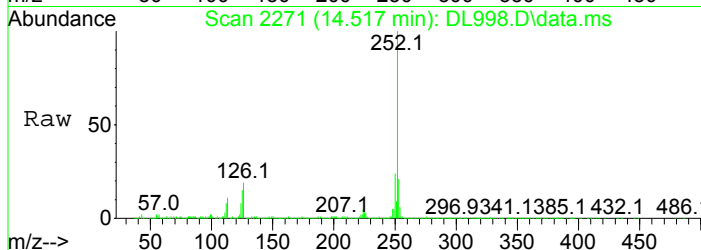
#90  
 bis(2-Ethylhexyl)phthalate  
 Concen: 1.16 ppm  
 RT: 12.477 min Scan# 1889  
 Delta R.T. -0.040 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

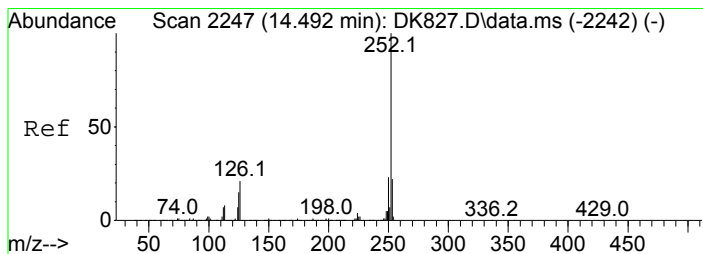
Tgt Ion	Resp	Lower	Upper
149	100		
167	32.8	9.1	49.1
279	1.1	0.0	26.9



#93  
 Benzo(b)Fluoranthene  
 Concen: 45.26 ppm  
 RT: 14.517 min Scan# 2271  
 Delta R.T. -0.037 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

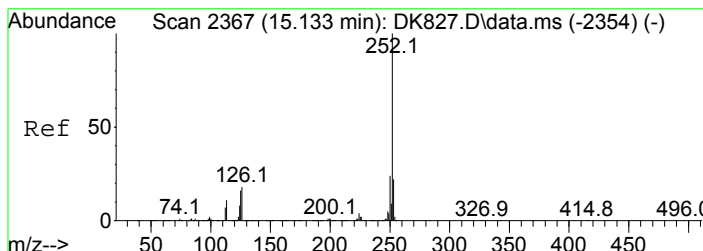
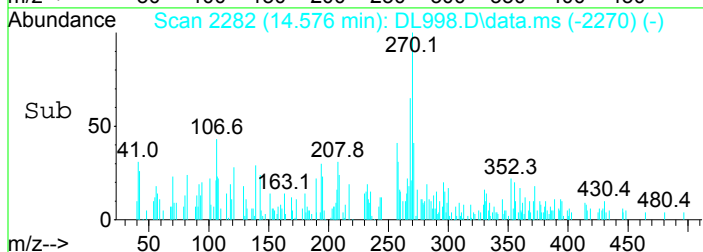
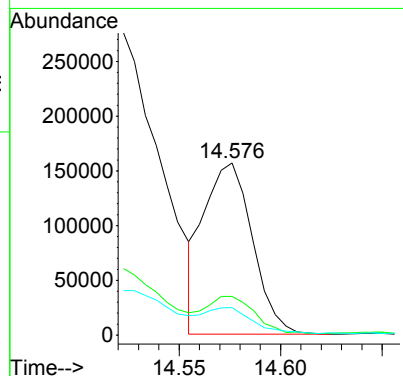
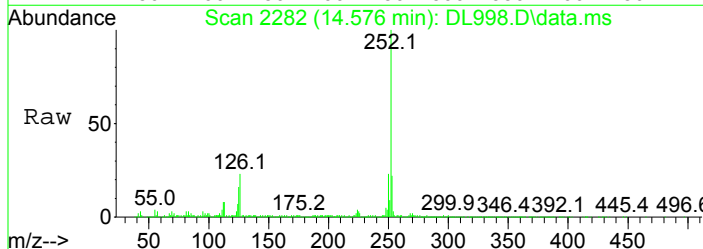
Tgt Ion	Resp	Lower	Upper
252	100		
253	20.8	4.1	44.1
125	13.6	0.0	37.3





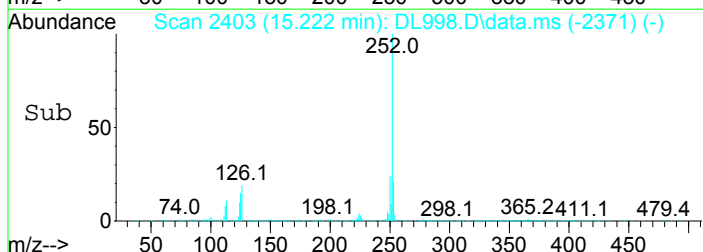
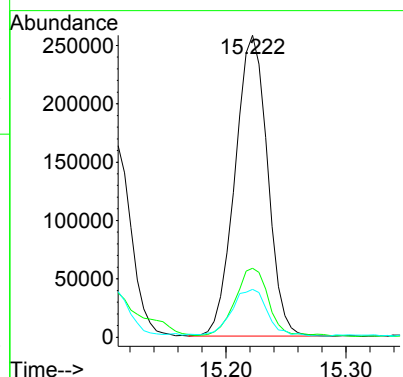
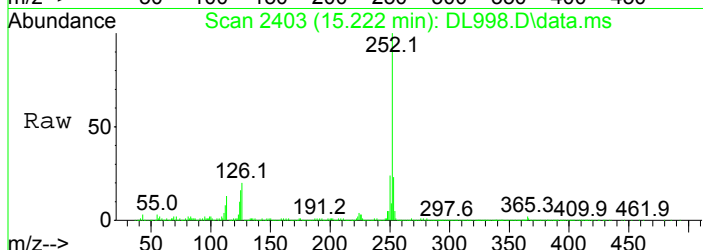
#94  
 Benzo(k)fluoranthene  
 Concen: 17.55 ppm  
 RT: 14.576 min Scan# 2282  
 Delta R.T. -0.036 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

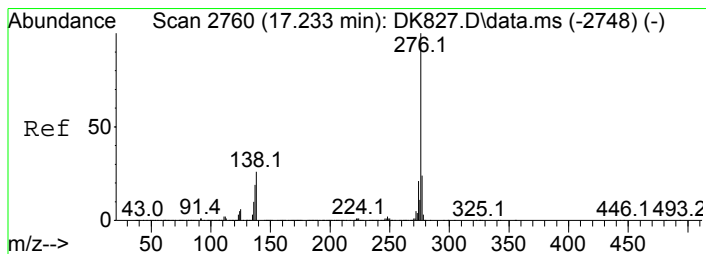
Tgt Ion	Resp	Lower	Upper
252	100		
253	21.3	1.1	41.1
125	13.3	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 35.89 ppm  
 RT: 15.222 min Scan# 2403  
 Delta R.T. -0.031 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

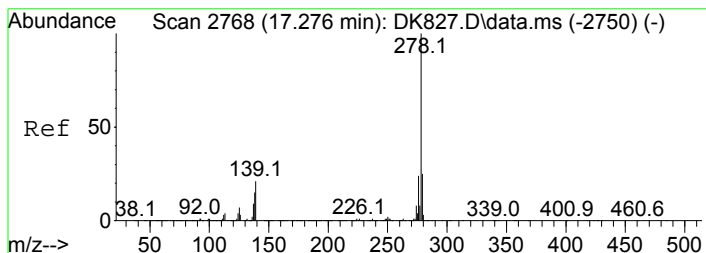
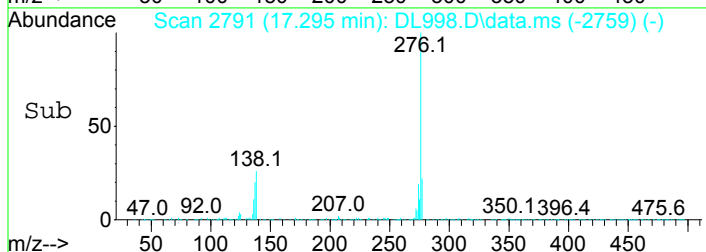
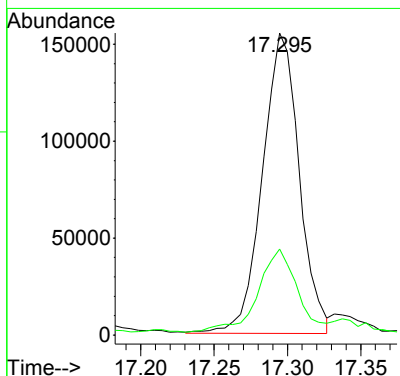
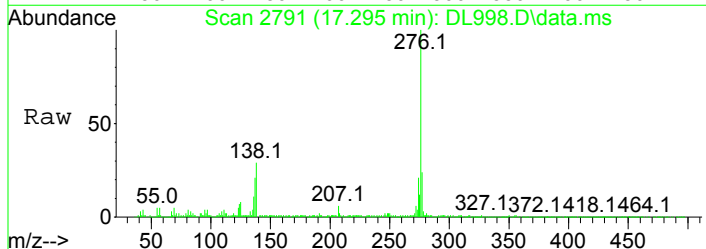
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.1	1.3	41.3
125	15.2	0.0	36.3





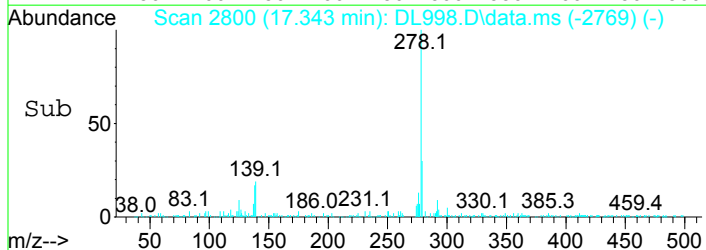
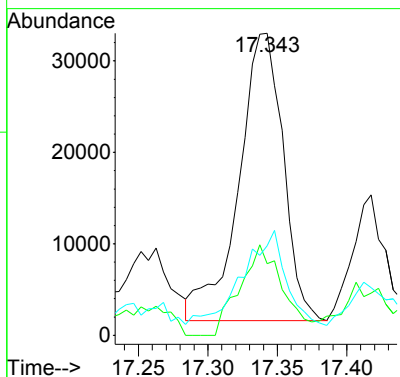
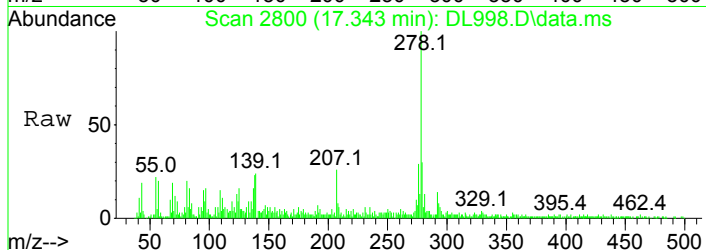
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 21.40 ppm  
 RT: 17.295 min Scan# 2791  
 Delta R.T. -0.027 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

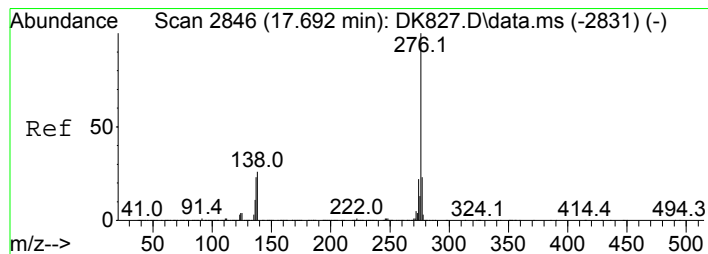
Tgt Ion	Resp	Lower	Upper
276	100		
138	27.0	6.0	46.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 5.08 ppm  
 RT: 17.343 min Scan# 2800  
 Delta R.T. -0.033 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

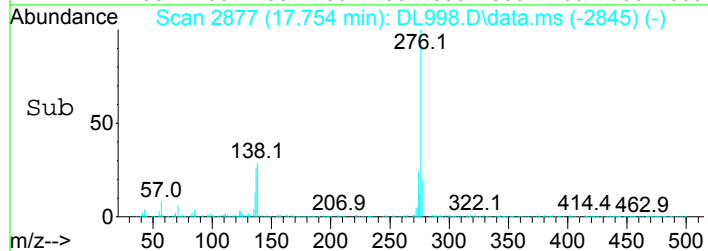
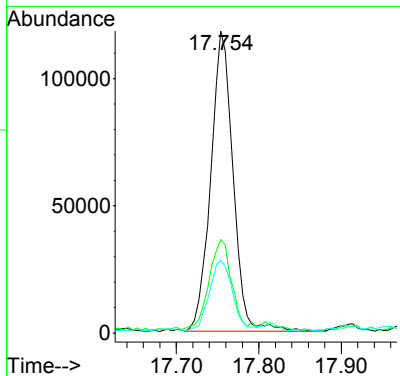
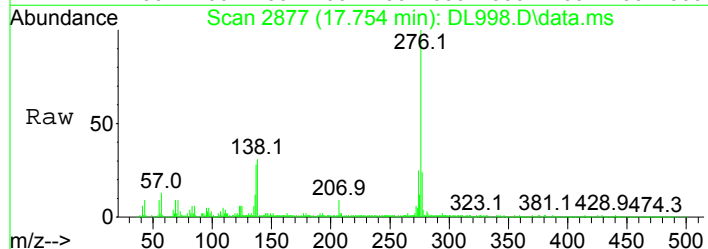
Tgt Ion	Resp	Lower	Upper
278	100		
139	21.0	2.6	42.6
279	28.7	4.6	44.6





#98  
 Benzo(g,h,i)perylene  
 Concen: 17.64 ppm  
 RT: 17.754 min Scan# 2877  
 Delta R.T. -0.029 min  
 Lab File: DL998.D  
 Acq: 22 Feb 2018 7:09 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	29.8	10.9	50.9
277	23.4	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM055.D  
 Acq On : 27 Feb 2018 10:28 am  
 Operator : J.Misiurewicz  
 Sample : R1801453-009|3.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 5 Sample Multiplier: 1

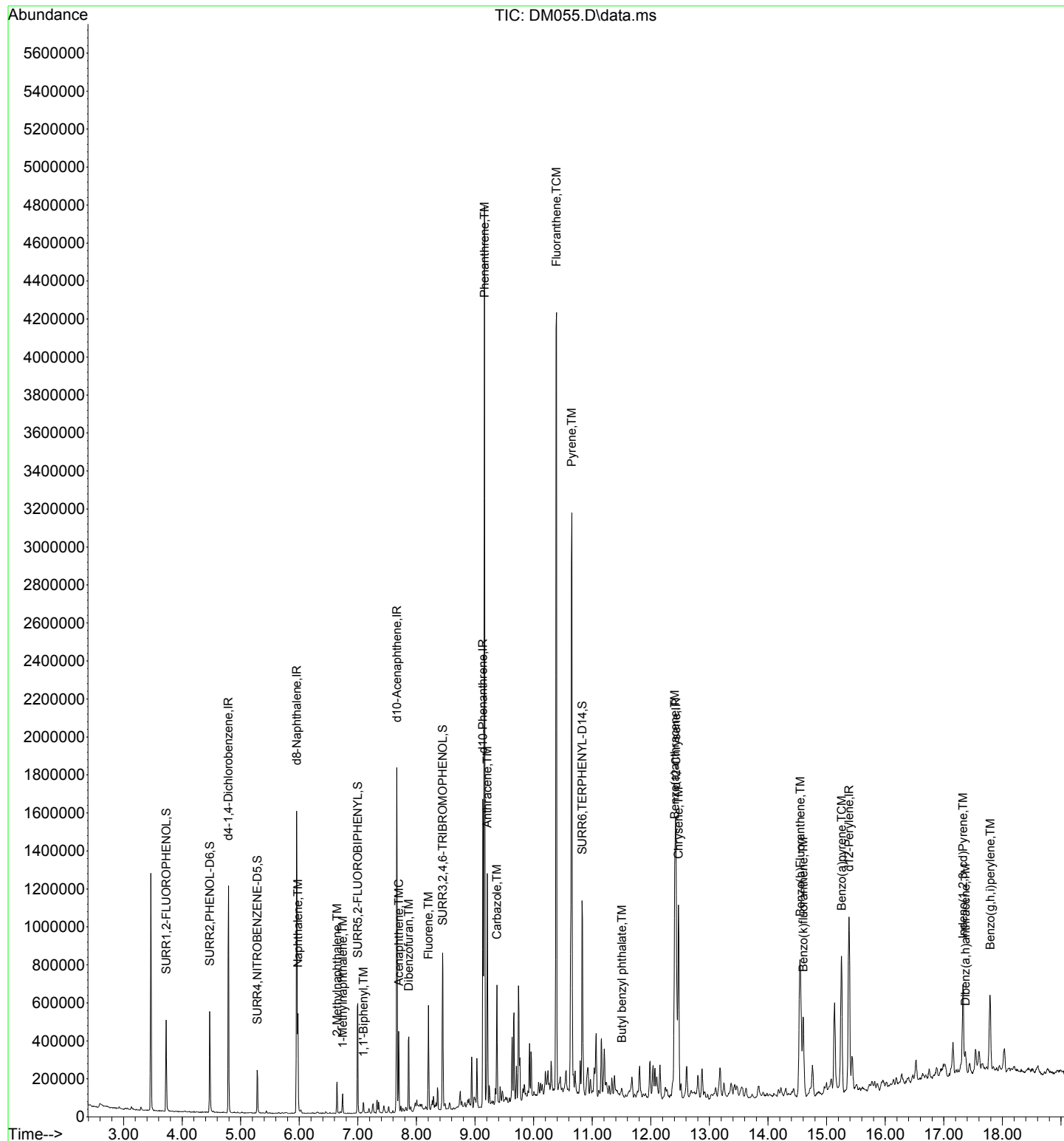
Quant Time: Feb 28 10:48:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.791	152	191096	40.00	ppm	-0.01
24) d8-Naphthalene	5.956	136	736187	40.00	ppm	-0.01
42) d10-Acenaphthene	7.665	164	350799	40.00	ppm	-0.01
69) d10-Phenanthrene	9.133	188	606831	40.00	ppm	-0.01
82) d12-Chrysene	12.429	240	563486	40.00	ppm	0.00
91) d12-Perylene	15.383	264	590918	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.728	112	166686	26.93	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	13.47%	#	
8) SURR2,PHENOL-D6	4.471	99	227538	29.66	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	14.83%		
25) SURR4,NITROBENZENE-D5	5.283	82	76849	14.19	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	14.19%		
48) SURR5,2-FLUOROBIPHENYL	6.997	172	191302	15.43	ppm	-0.01
Spiked Amount 100.000	Range 14	- 102	Recovery =	15.43%		
67) SURR3,2,4,6-TRIBROMOPH...	8.450	330	97345	58.19	ppm	0.00
Spiked Amount 200.000	Range 10	- 109	Recovery =	29.09%		
85) SURR6,TERPHENYL-D14	10.827	244	365023	30.16	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	30.16%		
<b>Target Compounds</b>						
34) Naphthalene	5.977	128	227522	12.435	ppm	99
40) 2-Methylnaphthalene	6.645	142	52121	4.424	ppm	97
41) 1-Methylnaphthalene	6.741	142	31089	2.826	ppm	96
49) 1,1'-Biphenyl	7.093	154	19269	1.366	ppm	# 93
55) Acenaphthene	7.697	153	100234	8.603	ppm	95
58) Dibenzofuran	7.868	168	162835	11.312	ppm	96
63) Fluorene	8.204	166	144694	12.169	ppm	98
77) Phenanthrene	9.160	178	1695272	106.446	ppm	99
78) Anthracene	9.208	178	452677	28.490	ppm	98
79) Carbazole	9.374	167	252229	15.359	ppm	99
81) Fluoranthene	10.389	202	1755362	107.825	ppm	99
84) Pyrene	10.650	202	1403412	84.177	ppm	99
86) Butyl benzyl phthalate	11.505	149	10221	1.136	ppm	85
88) Benzo(a)anthracene	12.408	228	613503	38.871	ppm	99
89) Chrysene	12.472	228	558188	37.821	ppm	96
93) Benzo(b)Fluoranthene	14.549	252	655497	39.066	ppm	95
94) Benzo(k)fluoranthene	14.603	252	236649	14.918	ppm	96
95) Benzo(a)pyrene	15.254	252	473166	32.791	ppm	97
96) Indeno(1,2,3-cd)Pyrene	17.327	276	297328	21.983	ppm	97
97) Dibenz(a,h)anthracene	17.369	278	77047	5.211	ppm	89
98) Benzo(g,h,i)perylene	17.791	276	274082	20.260	ppm	98

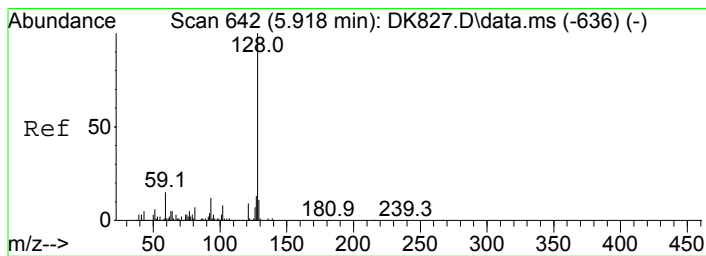
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM055.D  
Acq On : 27 Feb 2018 10:28 am  
Operator : J.Misiurewicz  
Sample : R1801453-009|3.0  
Misc : 308725 8270D SOIL  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 28 10:48:38 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration

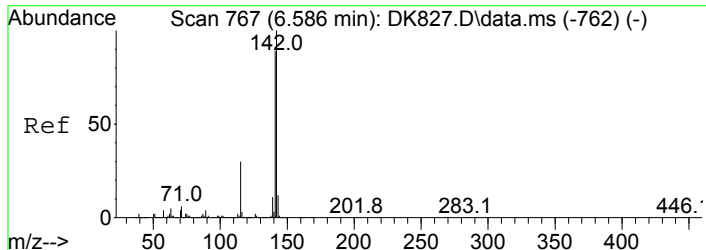
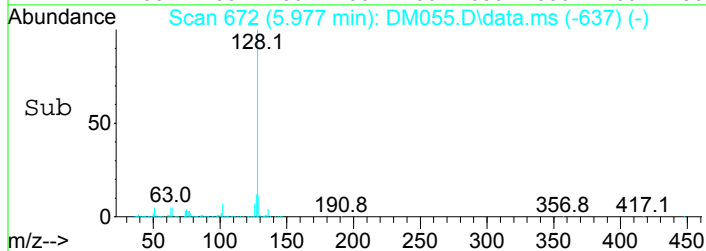
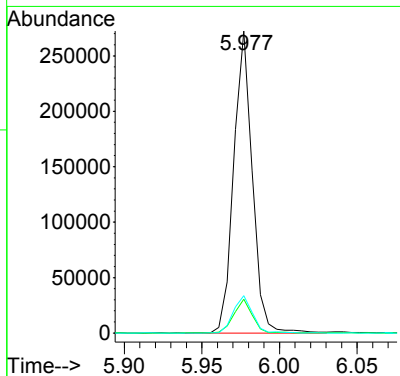
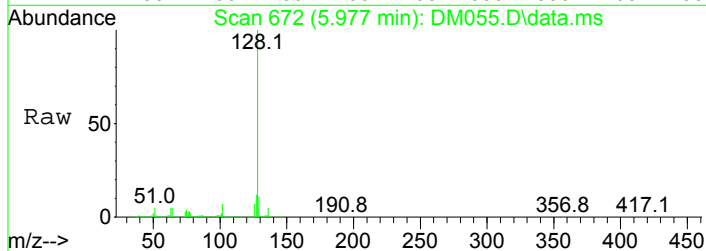






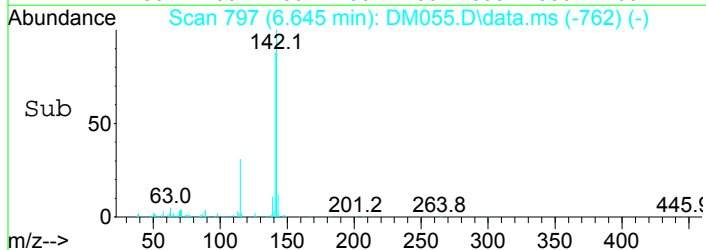
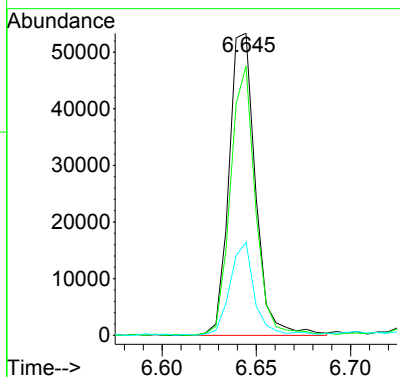
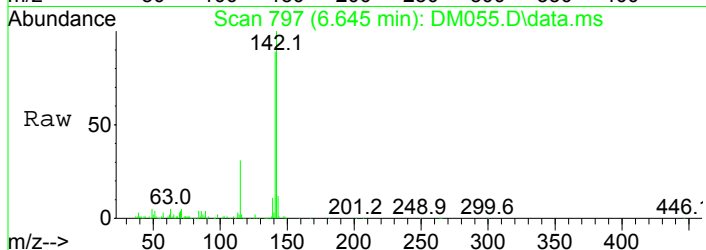
#34  
 Naphthalene  
 Concen: 12.43 ppm  
 RT: 5.977 min Scan# 672  
 Delta R.T. -0.013 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

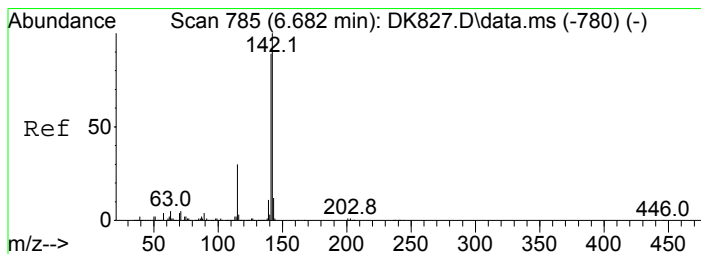
Tgt Ion	Resp	Lower	Upper
128	227522		
129	11.1	0.0	31.3
127	12.4	0.0	33.1



#40  
 2-Methylnaphthalene  
 Concen: 4.42 ppm  
 RT: 6.645 min Scan# 797  
 Delta R.T. -0.011 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

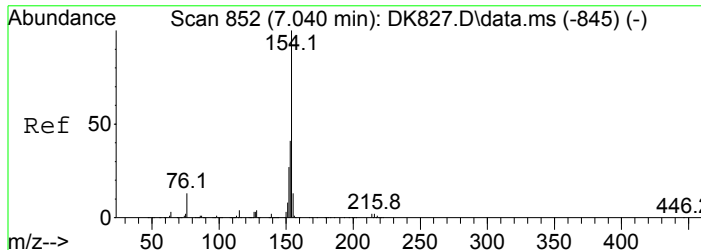
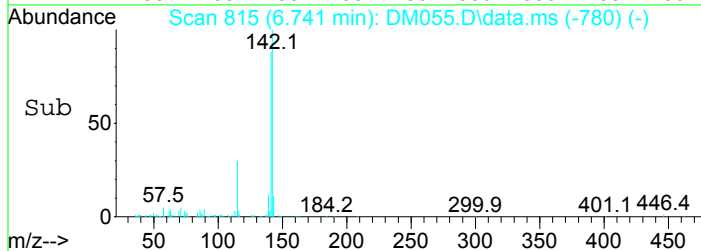
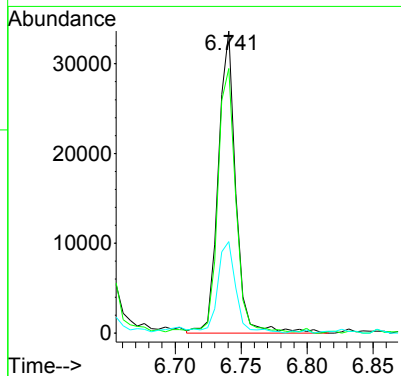
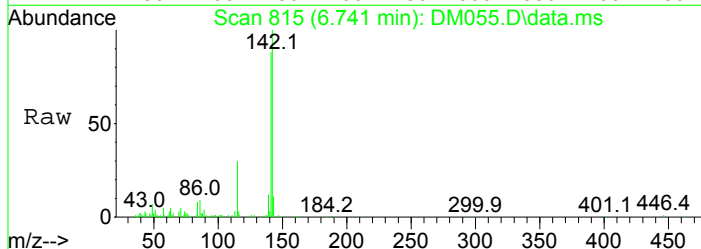
Tgt Ion	Resp	Lower	Upper
142	52121		
141	89.2	66.0	106.0
115	30.5	8.8	48.8





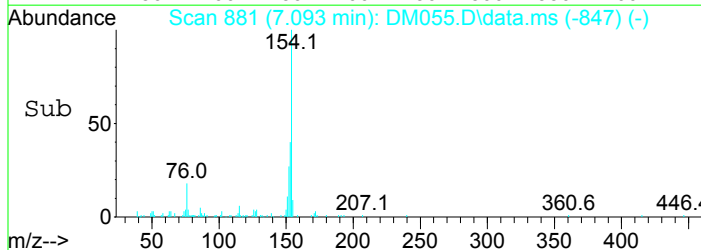
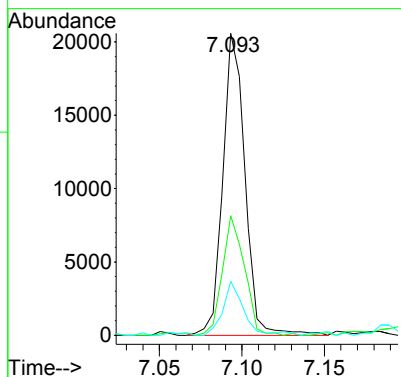
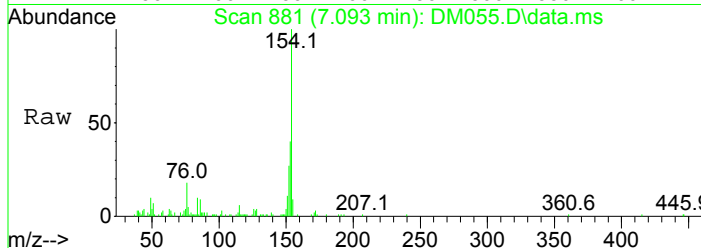
#41  
 1-Methylnaphthalene  
 Concen: 2.83 ppm  
 RT: 6.741 min Scan# 815  
 Delta R.T. -0.011 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

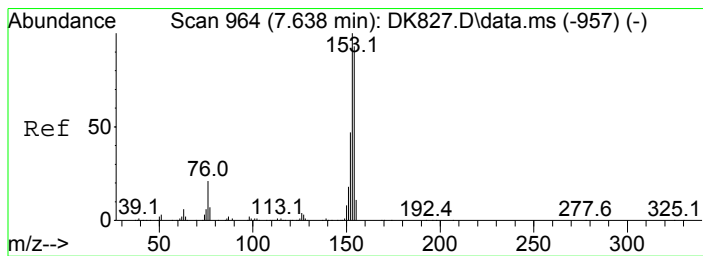
Tgt Ion	Resp	Lower	Upper
142	100		
141	87.2	61.6	121.6
115	29.6	1.0	61.0



#49  
 1,1'-Biphenyl  
 Concen: 1.37 ppm  
 RT: 7.093 min Scan# 881  
 Delta R.T. -0.016 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

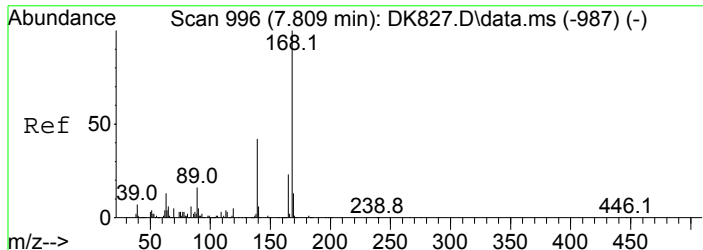
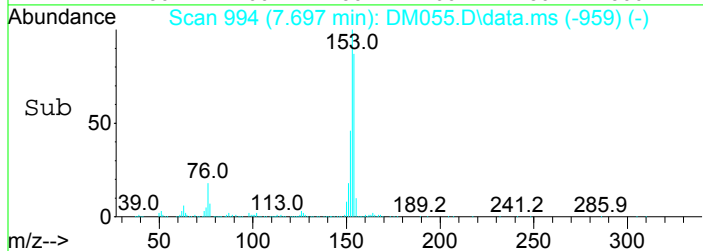
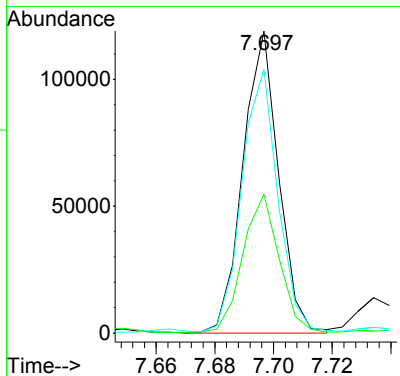
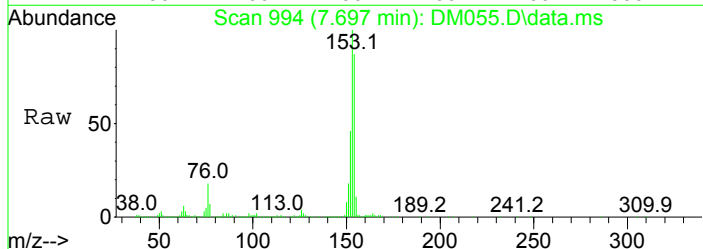
Tgt Ion	Resp	Lower	Upper
154	100		
153	38.8	29.8	55.3
76	17.2	8.9	16.5#





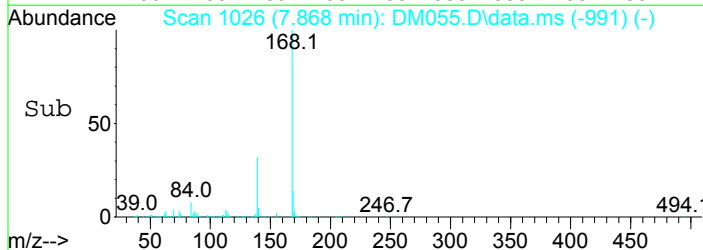
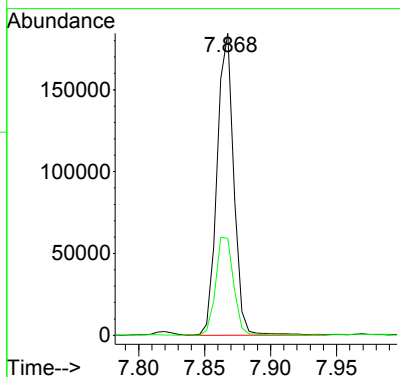
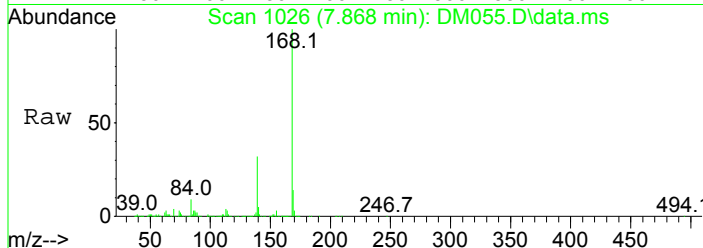
#55  
 Acenaphthene  
 Concen: 8.60 ppm  
 RT: 7.697 min Scan# 994  
 Delta R.T. -0.013 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

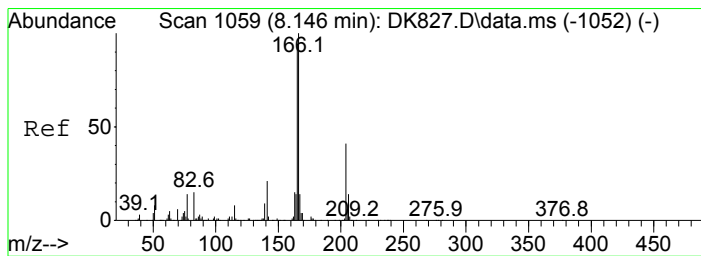
Tgt Ion	Resp	Lower	Upper
153	100		
152	46.0	28.0	68.0
154	87.1	72.5	112.5



#58  
 Dibenzofuran  
 Concen: 11.31 ppm  
 RT: 7.868 min Scan# 1026  
 Delta R.T. -0.011 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

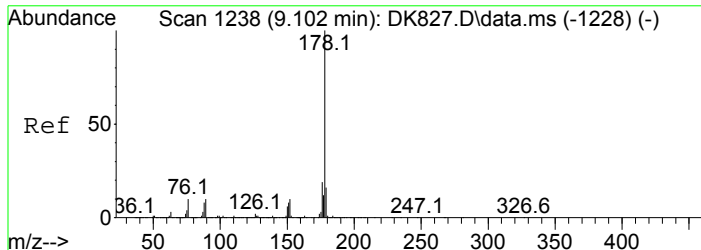
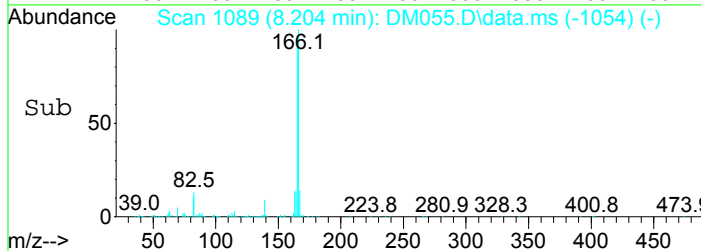
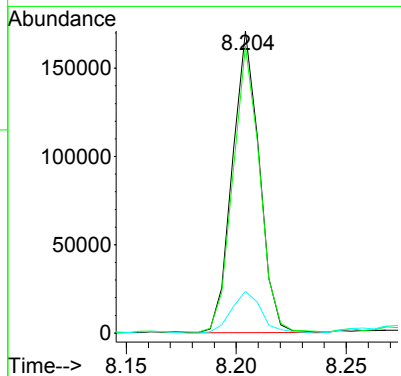
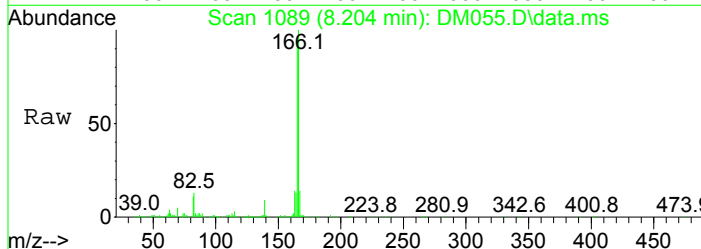
Tgt Ion	Resp	Lower	Upper
168	100		
139	31.9	14.2	54.2





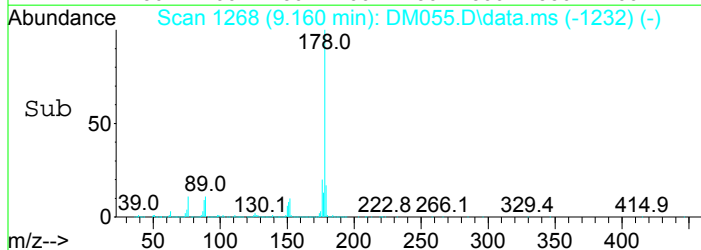
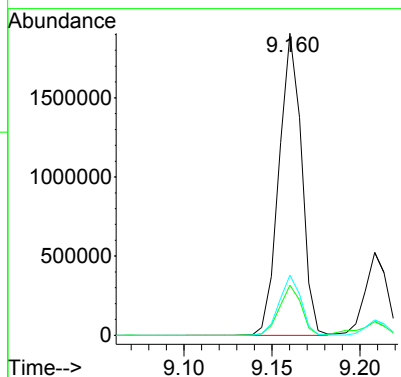
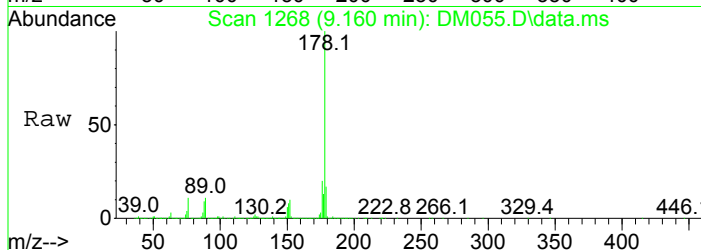
#63  
 Fluorene  
 Concen: 12.17 ppm  
 RT: 8.204 min Scan# 1089  
 Delta R.T. -0.013 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

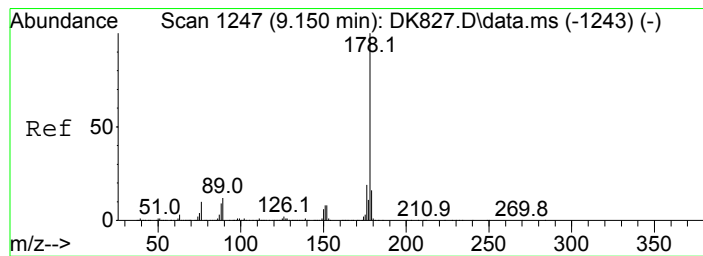
Tgt Ion	Resp	Lower	Upper
166	144694		
165	94.9	62.8	122.8
167	13.8	0.0	43.9



#77  
 Phenanthrene  
 Concen: 106.45 ppm  
 RT: 9.160 min Scan# 1268  
 Delta R.T. -0.009 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

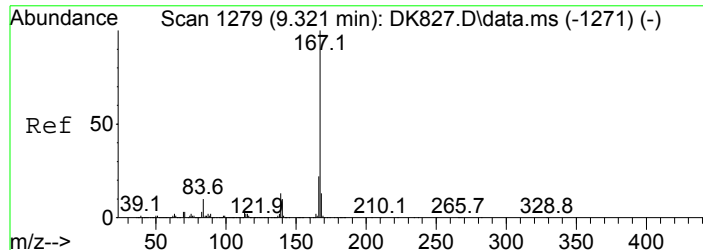
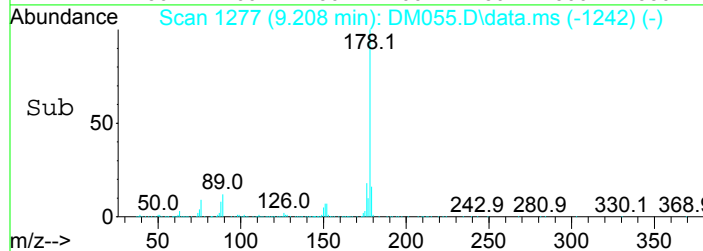
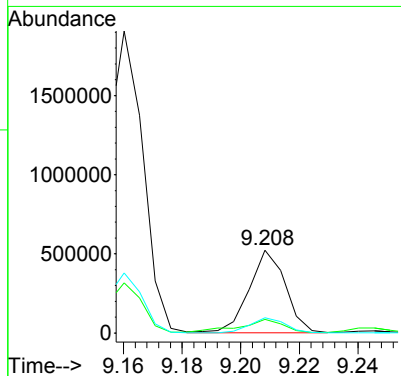
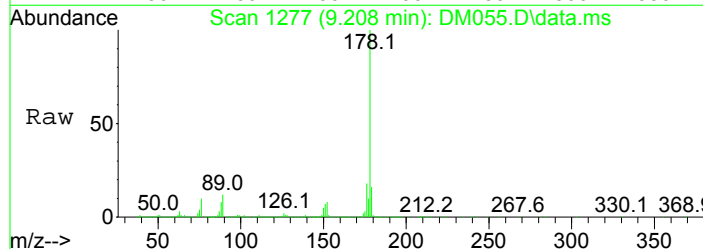
Tgt Ion	Resp	Lower	Upper
178	1695272		
179	16.5	0.0	36.3
176	19.9	0.0	39.7





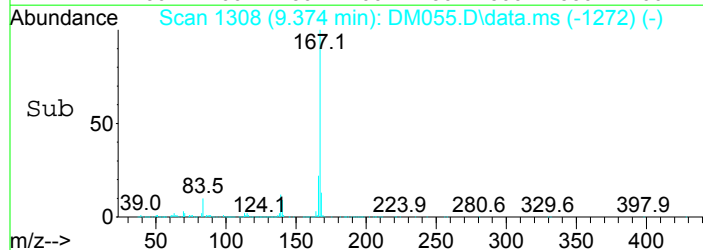
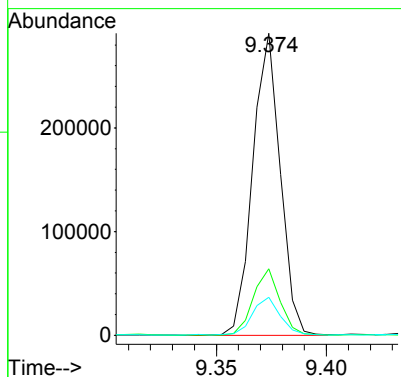
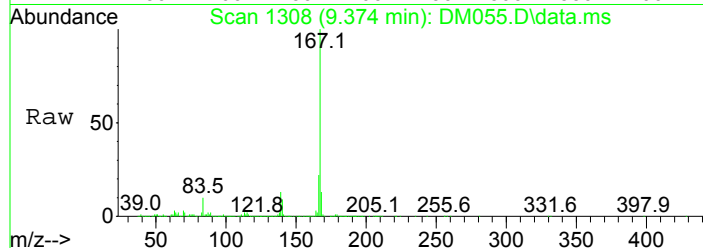
#78  
 Anthracene  
 Concen: 28.49 ppm  
 RT: 9.208 min Scan# 1277  
 Delta R.T. -0.011 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

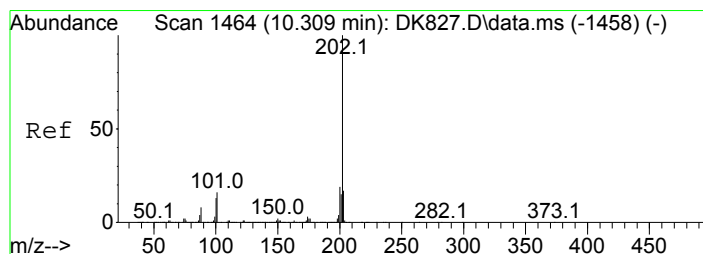
Tgt Ion	Resp	Lower	Upper
178	452677		
179	15.7	0.0	36.2
176	18.4	0.0	39.4



#79  
 Carbazole  
 Concen: 15.36 ppm  
 RT: 9.374 min Scan# 1308  
 Delta R.T. -0.006 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

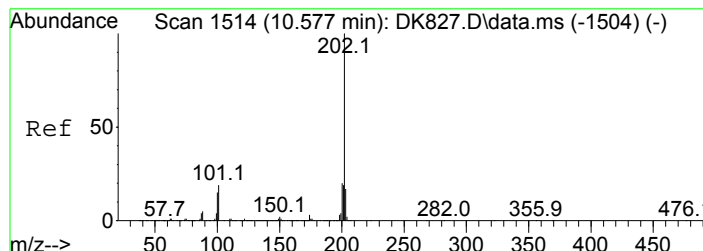
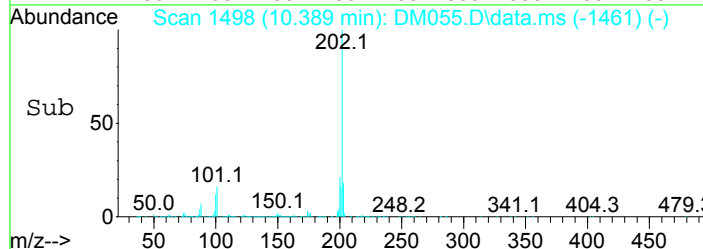
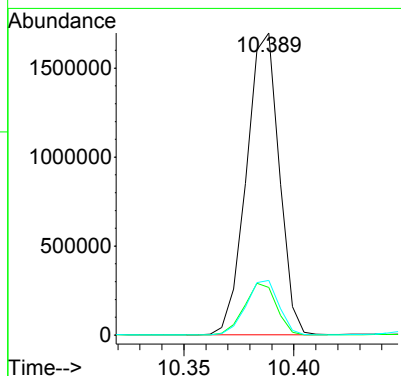
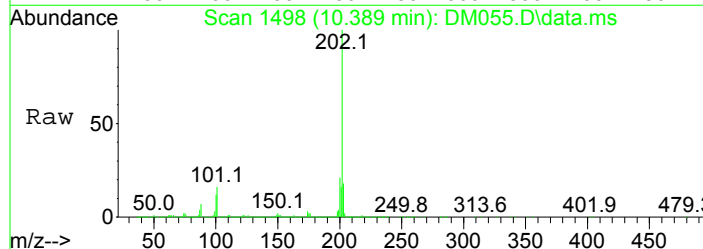
Tgt Ion	Resp	Lower	Upper
167	252229		
166	21.9	1.7	41.7
139	12.4	0.0	32.8





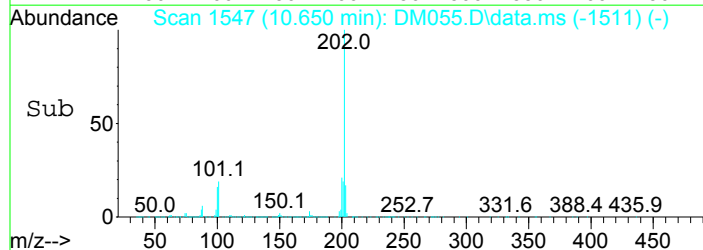
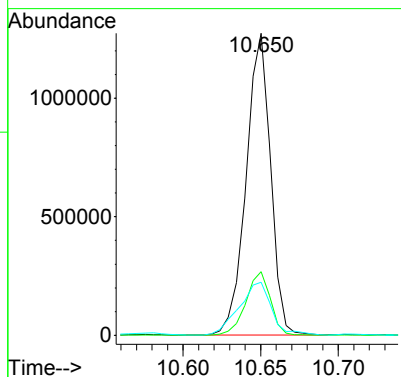
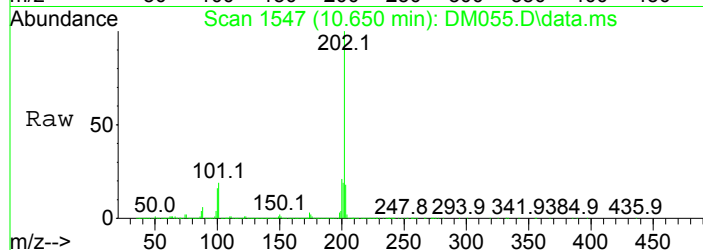
#81  
 Fluoranthene  
 Concen: 107.83 ppm  
 RT: 10.389 min Scan# 1498  
 Delta R.T. -0.001 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

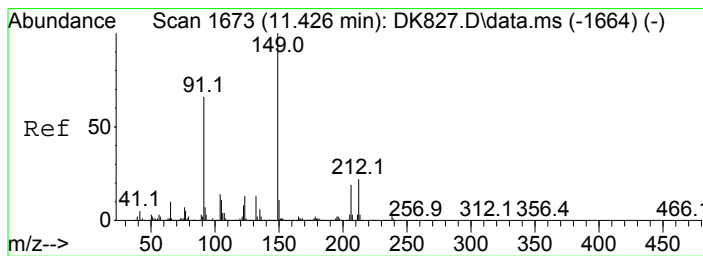
Tgt Ion	Resp	Lower	Upper
202	1755362		
101	15.7	0.0	35.1
203	18.0	0.0	37.7



#84  
 Pyrene  
 Concen: 84.18 ppm  
 RT: 10.650 min Scan# 1547  
 Delta R.T. -0.006 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

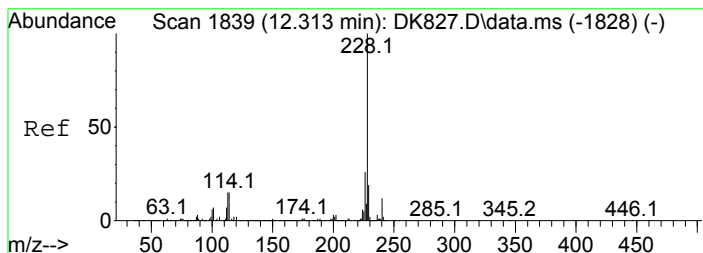
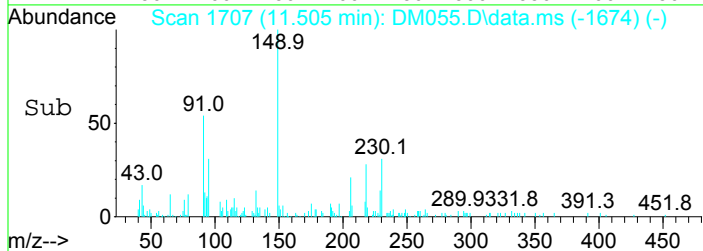
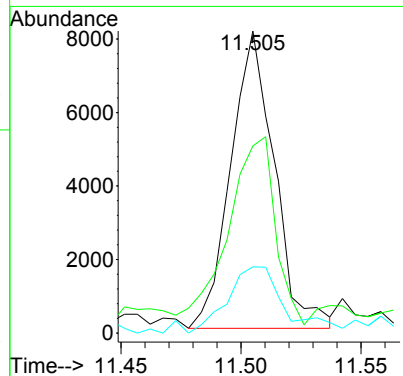
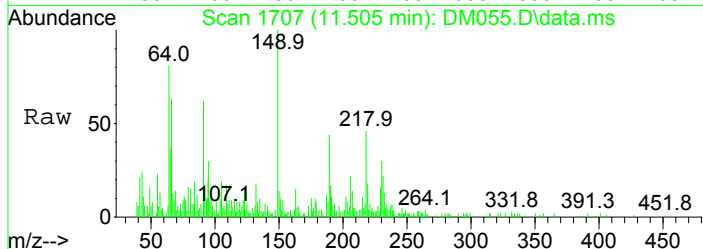
Tgt Ion	Resp	Lower	Upper
202	1403412		
200	21.1	1.7	41.7
203	17.4	0.0	37.6





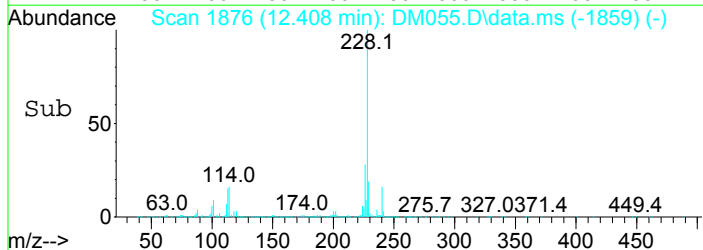
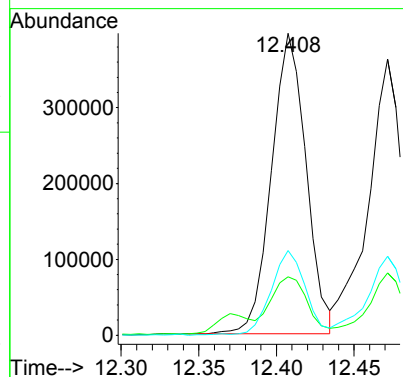
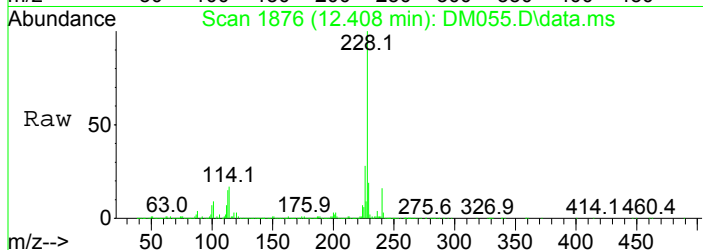
#86  
 Butyl benzyl phthalate  
 Concen: 1.14 ppm  
 RT: 11.505 min Scan# 1707  
 Delta R.T. -0.024 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

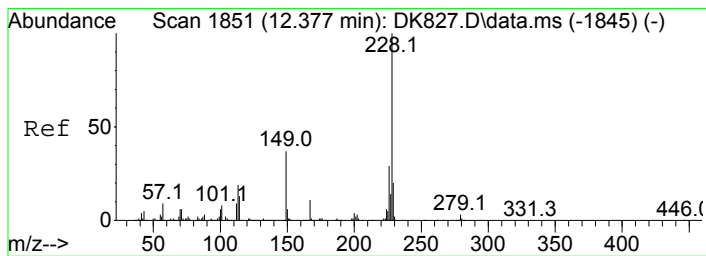
Tgt Ion	Resp	Lower	Upper
149	10221		
91	55.2	50.3	90.3
206	20.9	0.0	39.0



#88  
 Benzo(a)anthracene  
 Concen: 38.87 ppm  
 RT: 12.408 min Scan# 1876  
 Delta R.T. -0.010 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

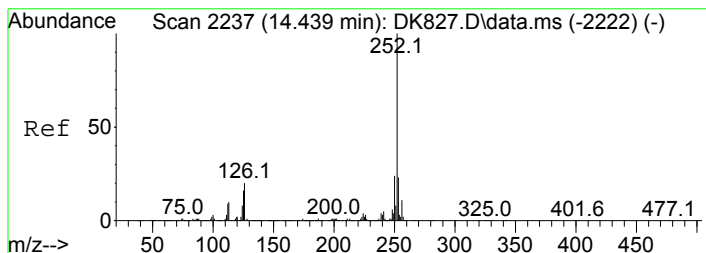
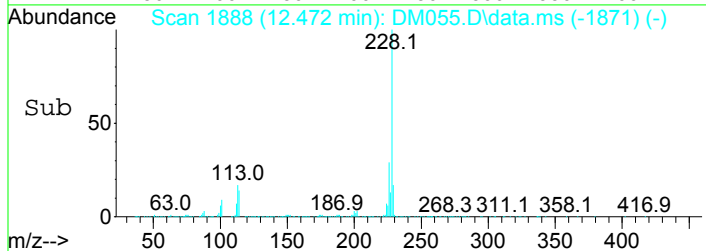
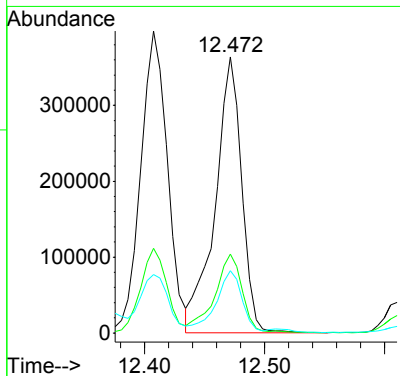
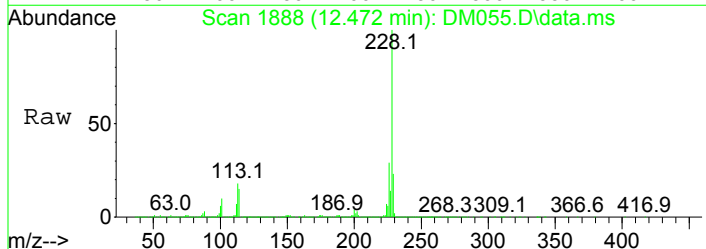
Tgt Ion	Resp	Lower	Upper
228	613503		
229	18.7	0.0	39.4
226	28.0	7.9	47.9





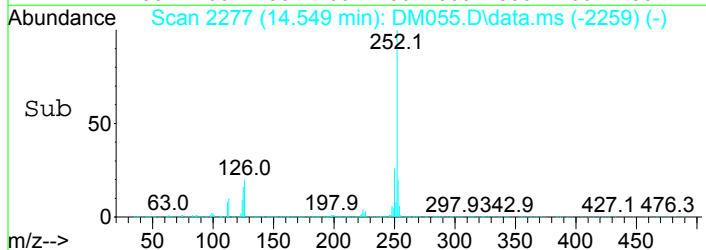
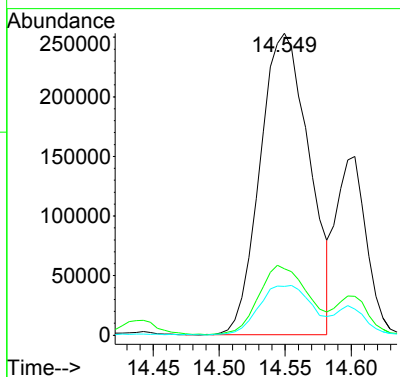
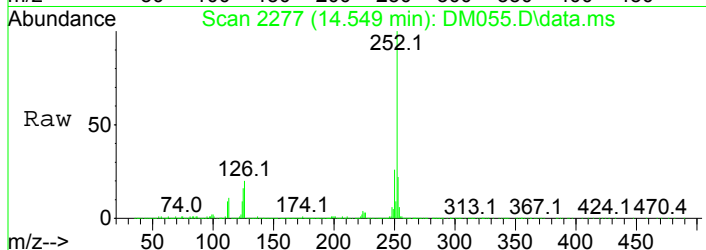
#89  
 Chrysene  
 Concen: 37.82 ppm  
 RT: 12.472 min Scan# 1888  
 Delta R.T. -0.011 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

Tgt Ion	Resp	Lower	Upper
228	558188		
226	28.5	9.9	49.9
229	22.2	0.0	39.5

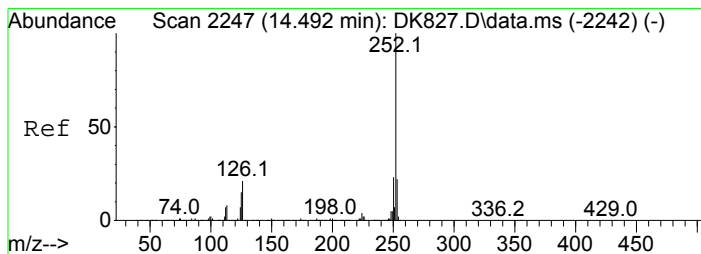


#93  
 Benzo(b)Fluoranthene  
 Concen: 39.07 ppm  
 RT: 14.549 min Scan# 2277  
 Delta R.T. -0.005 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

Tgt Ion	Resp	Lower	Upper
252	655497		
253	21.3	4.1	44.1
125	15.3	0.0	37.3

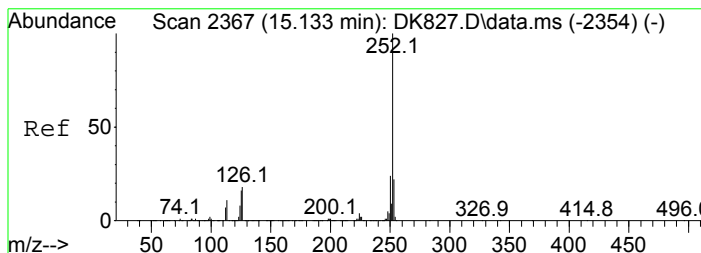
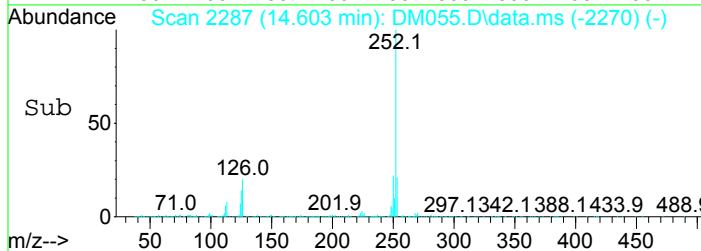
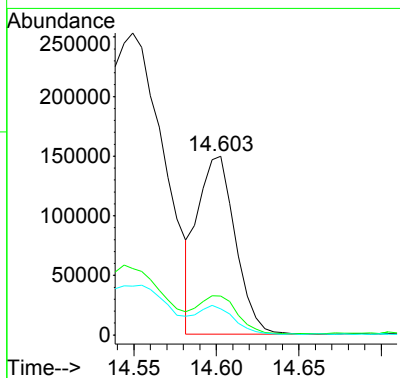
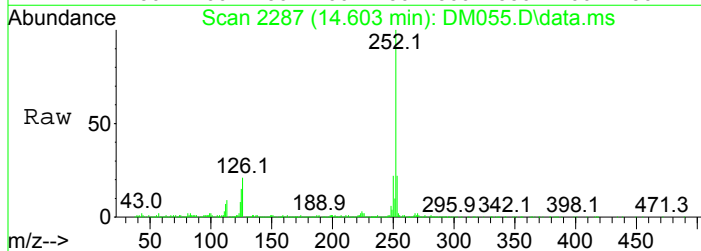






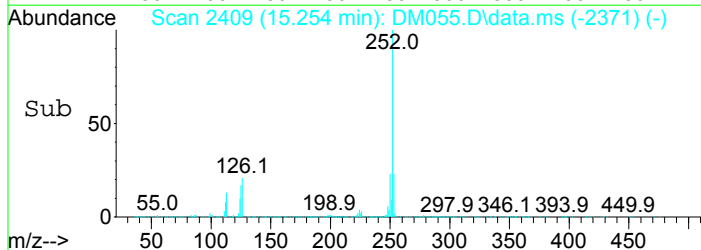
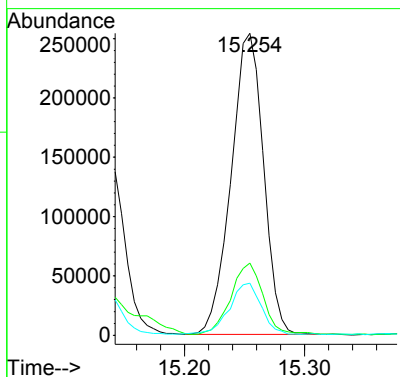
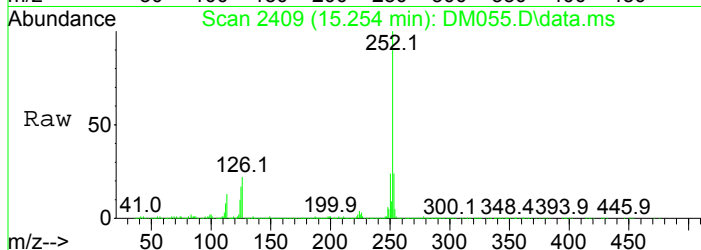
#94  
 Benzo(k)fluoranthene  
 Concen: 14.92 ppm  
 RT: 14.603 min Scan# 2287  
 Delta R.T. -0.009 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

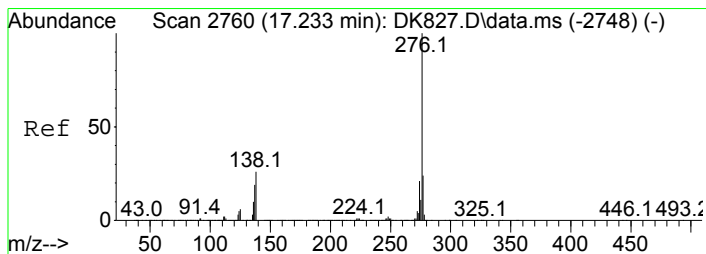
Tgt Ion	Resp	Lower	Upper
252	100		
253	20.3	1.1	41.1
125	12.5	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 32.79 ppm  
 RT: 15.254 min Scan# 2409  
 Delta R.T. 0.001 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

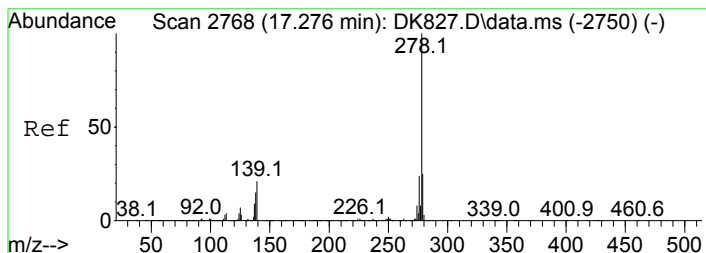
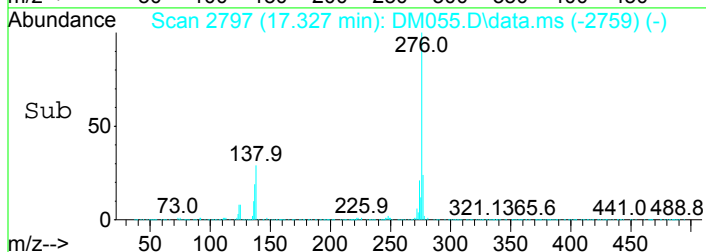
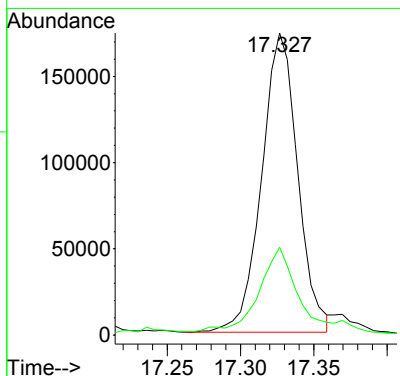
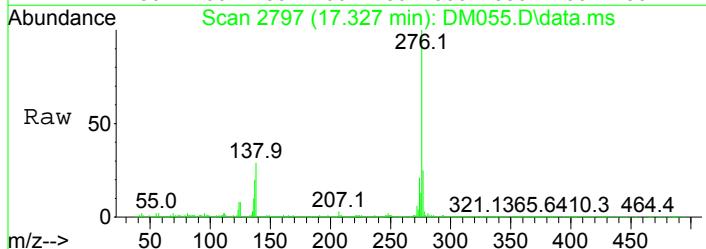
Tgt Ion	Resp	Lower	Upper
252	100		
253	23.5	1.3	41.3
125	17.0	0.0	36.3





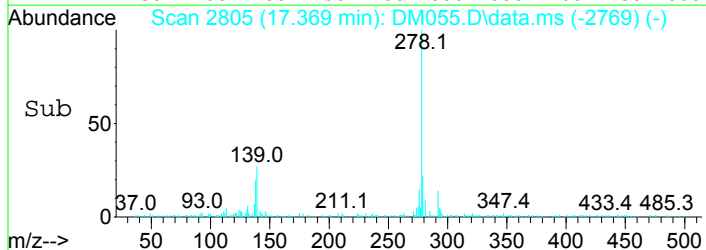
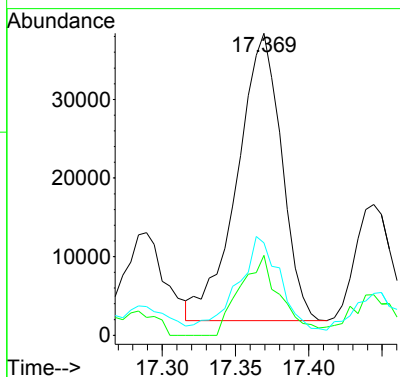
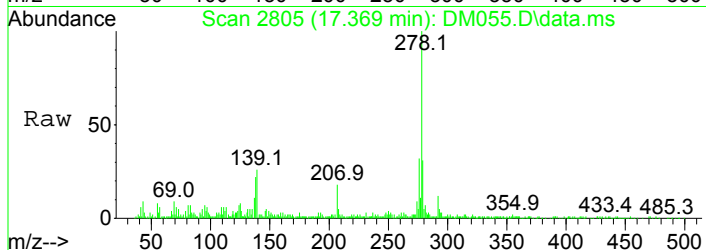
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 21.98 ppm  
 RT: 17.327 min Scan# 2797  
 Delta R.T. 0.005 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

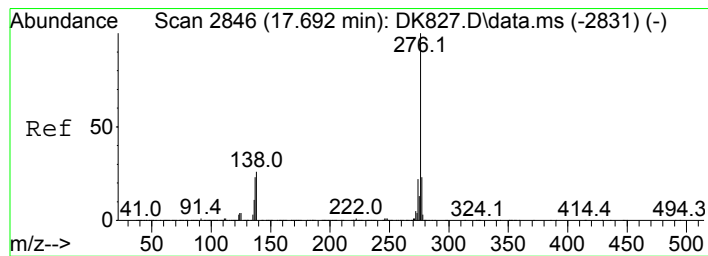
Tgt Ion	Resp	Lower	Upper
276	100		
138	27.4	6.0	46.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 5.21 ppm  
 RT: 17.369 min Scan# 2805  
 Delta R.T. -0.006 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

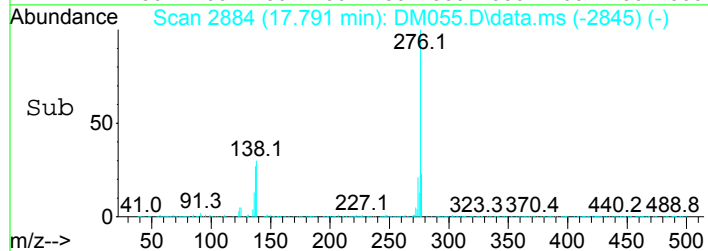
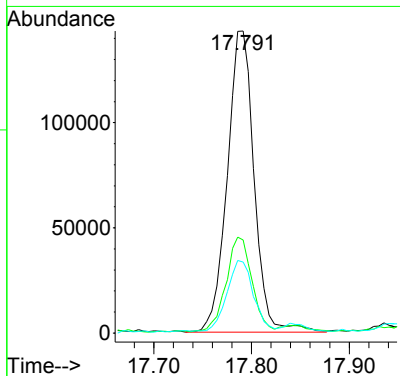
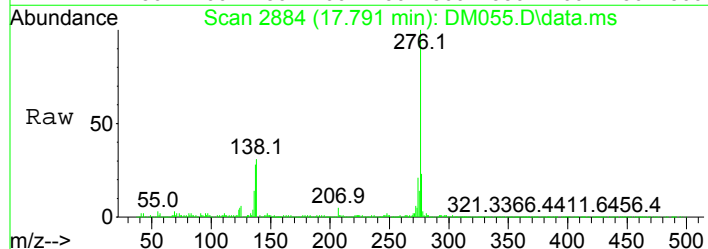
Tgt Ion	Resp	Lower	Upper
278	100		
139	27.3	2.6	42.6
279	30.7	4.6	44.6





#98  
 Benzo(g,h,i)perylene  
 Concen: 20.26 ppm  
 RT: 17.791 min Scan# 2884  
 Delta R.T. 0.008 min  
 Lab File: DM055.D  
 Acq: 27 Feb 2018 10:28 am

Tgt Ion	Ratio	Lower	Upper
276	100		
138	30.2	10.9	50.9
277	22.8	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM001.D  
 Acq On : 22 Feb 2018 8:04 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-010|2.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 15 Sample Multiplier: 1

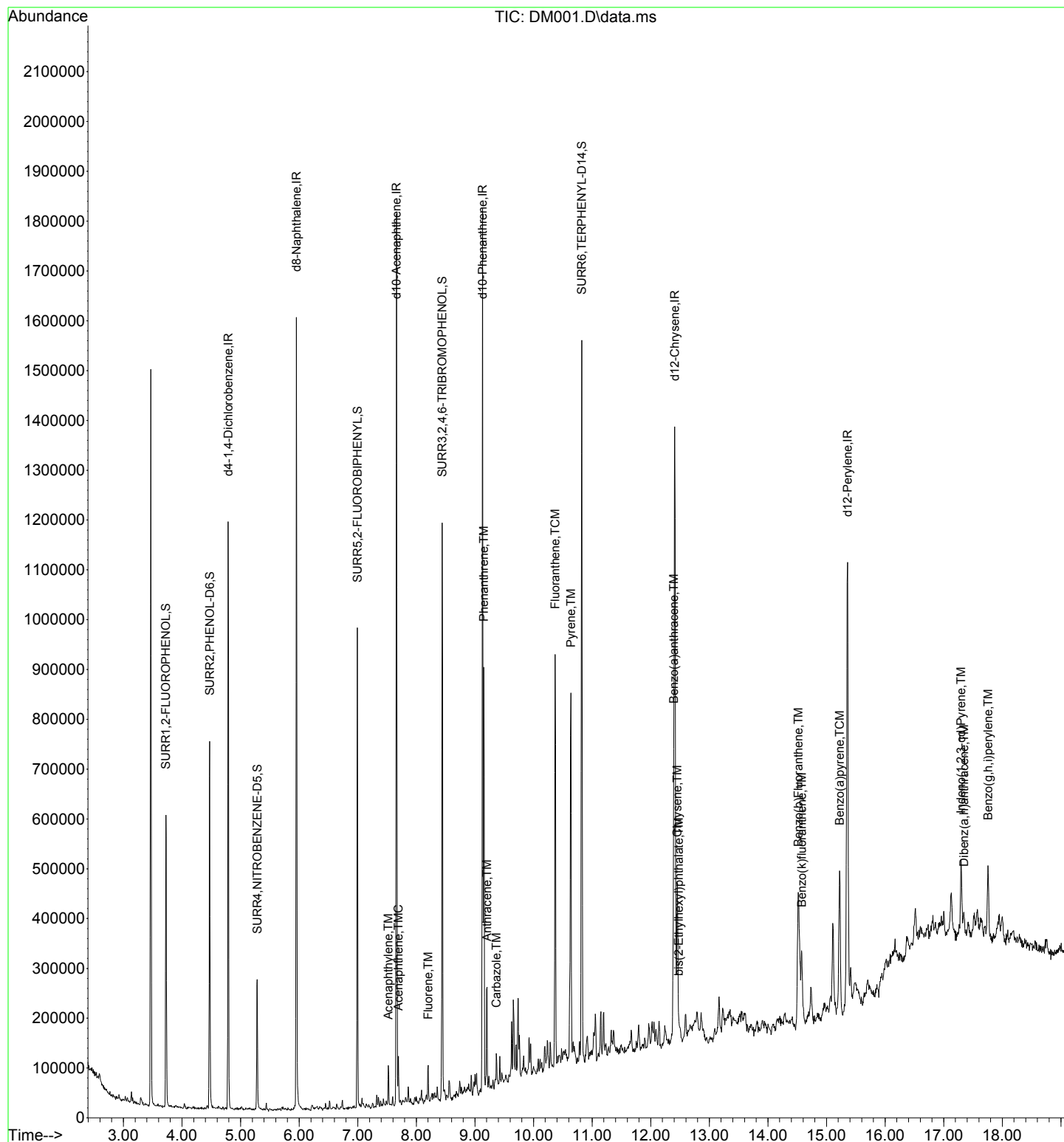
Quant Time: Feb 26 14:57:05 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

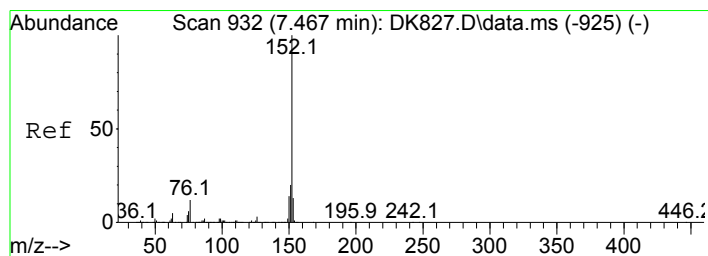
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.788	152	192359	40.00	ppm	-0.02	
24) d8-Naphthalene	5.952	136	730865	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.661	164	351011	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.130	188	609503	40.00	ppm	-0.01	
82) d12-Chrysene	12.409	240	549447	40.00	ppm	-0.03	
91) d12-Perylene	15.358	264	560440	40.00	ppm	-0.02	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.725	112	207556	33.32	ppm	-0.01	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	16.66%	
8) SURR2,PHENOL-D6	4.473	99	320308	41.47	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	20.73%	
25) SURR4,NITROBENZENE-D5	5.284	82	94591	17.60	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	17.60%	
48) SURR5,2-FLUOROBIPHENYL	6.994	172	280483	22.61	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	22.61%	
67) SURR3,2,4,6-TRIBROMOPH...	8.441	330	152429	91.06	ppm	-0.02	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	45.53%	
85) SURR6,TERPHENYL-D14	10.823	244	535415	45.38	ppm	-0.02	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	45.38%	
<b>Target Compounds</b>							
							Qvalue
52) Acenaphthylene	7.522	152	34836	2.044	ppm		99
55) Acenaphthene	7.693	153	21466	1.841	ppm		95
63) Fluorene	8.201	166	20417	1.716	ppm		97
77) Phenanthrene	9.151	178	305624	19.106	ppm		98
78) Anthracene	9.205	178	82930	5.196	ppm		97
79) Carbazole	9.365	167	24235	1.469	ppm		98
81) Fluoranthene	10.369	202	342322	20.935	ppm		99
84) Pyrene	10.636	202	341872	21.030	ppm		99
88) Benzo(a)anthracene	12.393	228	185089	12.027	ppm		96
89) Chrysene	12.452	228	177523	12.336	ppm		96
90) bis(2-Ethylhexyl)phtha...	12.479	149	15181	1.285	ppm		74
93) Benzo(b)Fluoranthene	14.519	252	239867	15.073	ppm		97
94) Benzo(k)fluoranthene	14.578	252	86972	5.781	ppm		88
95) Benzo(a)pyrene	15.224	252	184188	13.459	ppm		97
96) Indeno(1,2,3-cd)Pyrene	17.297	276	96657	7.535	ppm		94
97) Dibenz(a,h)anthracene	17.345	278	24657	1.758	ppm		88
98) Benzo(g,h,i)perylene	17.756	276	88770	6.919	ppm		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM001.D  
Acq On : 22 Feb 2018 8:04 pm  
Operator : J.Misiurewicz  
Sample : R1801453-010|2.0  
Misc : 308725 8270D SOIL  
ALS Vial : 15 Sample Multiplier: 1

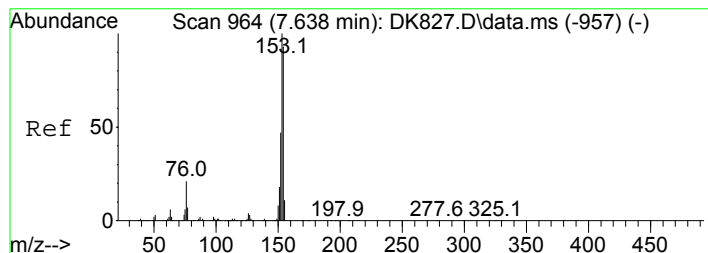
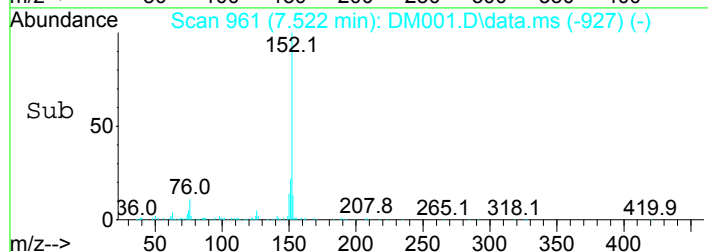
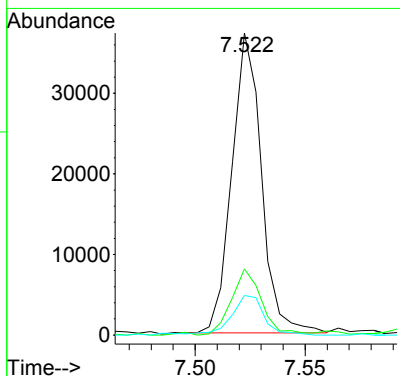
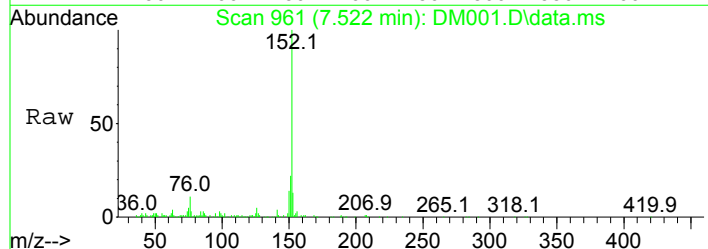
Quant Time: Feb 26 14:57:05 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





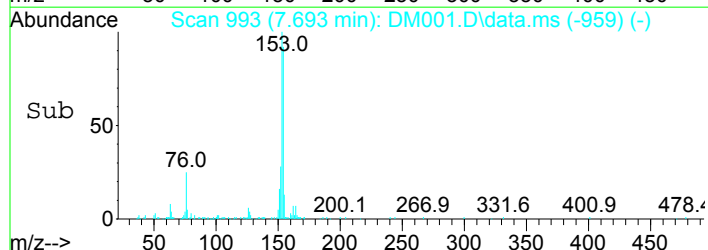
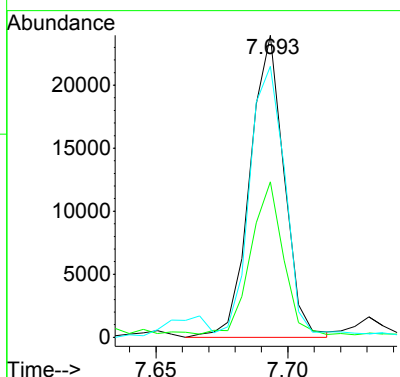
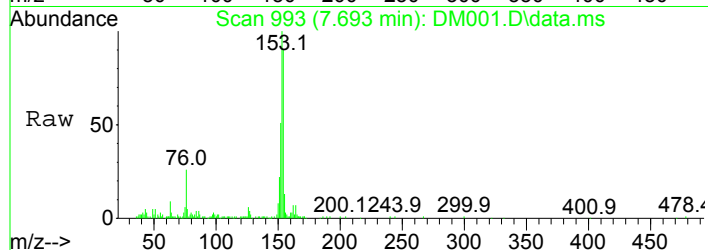
#52  
 Acenaphthylene  
 Concen: 2.04 ppm  
 RT: 7.522 min Scan# 961  
 Delta R.T. -0.017 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

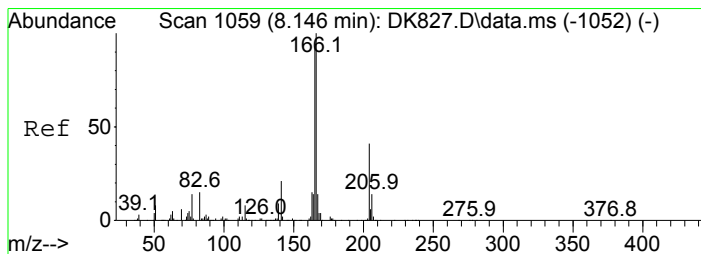
Tgt Ion	Resp	Lower	Upper
152	34836		
151	21.0	0.6	40.6
153	13.0	0.0	33.9



#55  
 Acenaphthene  
 Concen: 1.84 ppm  
 RT: 7.693 min Scan# 993  
 Delta R.T. -0.016 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

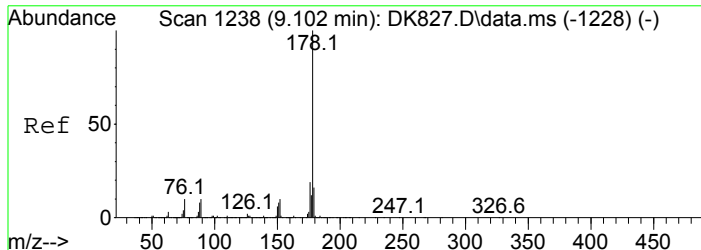
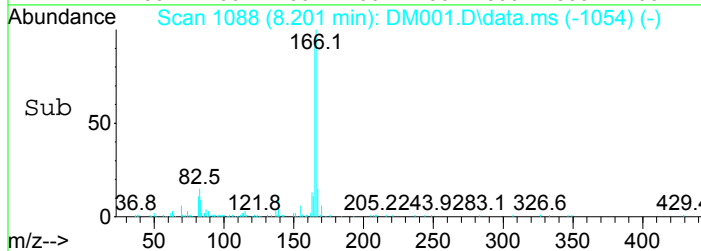
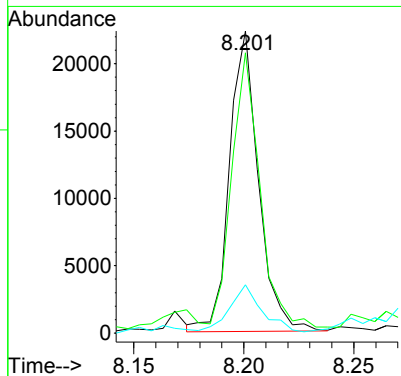
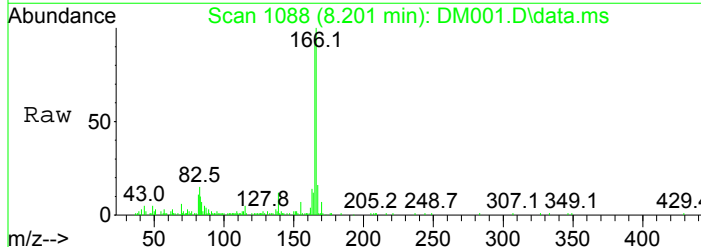
Tgt Ion	Resp	Lower	Upper
153	21466		
152	50.6	28.0	68.0
154	86.8	72.5	112.5





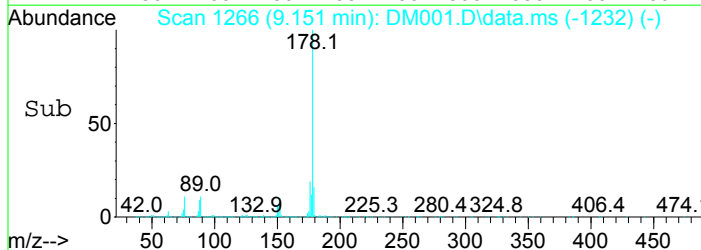
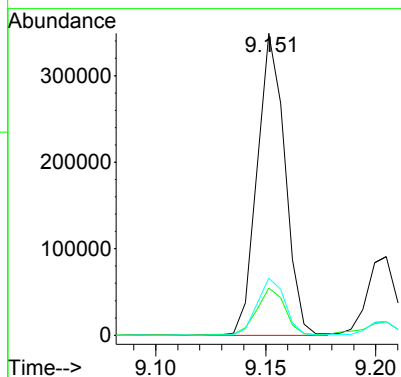
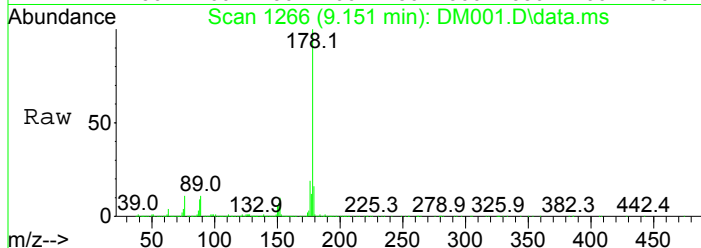
#63  
 Fluorene  
 Concen: 1.72 ppm  
 RT: 8.201 min Scan# 1088  
 Delta R.T. -0.016 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

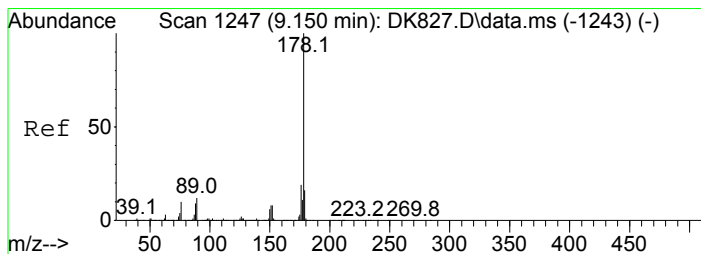
Tgt Ion	Resp	Lower	Upper
166	100		
165	89.5	62.8	122.8
167	15.0	0.0	43.9



#77  
 Phenanthrene  
 Concen: 19.11 ppm  
 RT: 9.151 min Scan# 1266  
 Delta R.T. -0.018 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

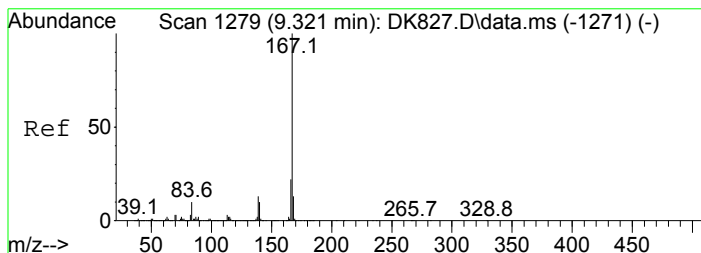
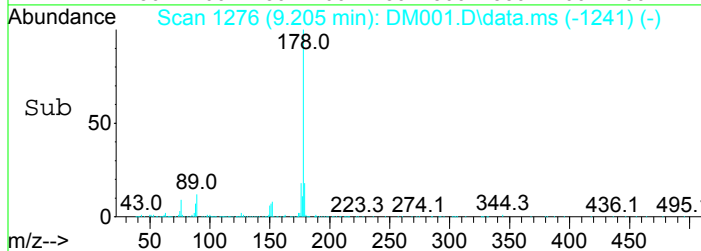
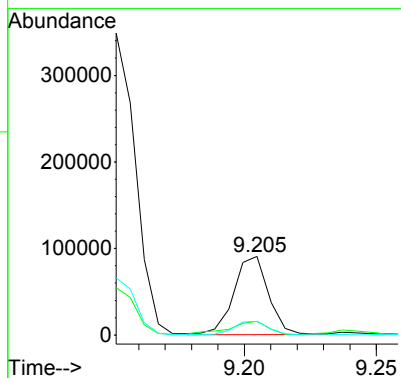
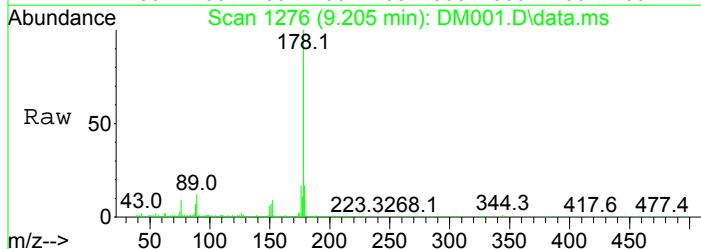
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.5	0.0	36.3
176	18.9	0.0	39.7





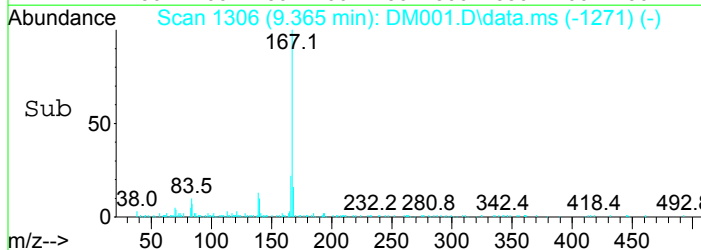
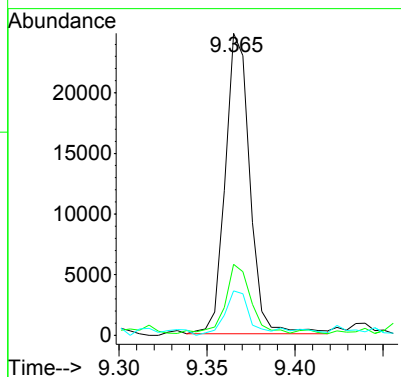
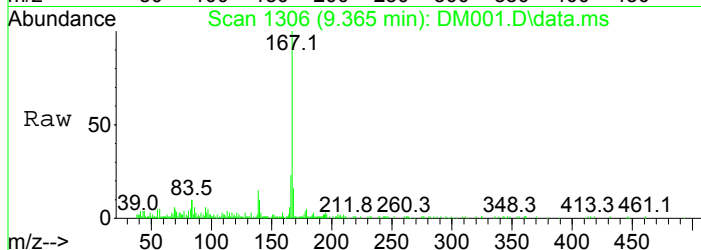
#78  
 Anthracene  
 Concen: 5.20 ppm  
 RT: 9.205 min Scan# 1276  
 Delta R.T. -0.015 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

Tgt Ion	Resp	Lower	Upper
178	100		
179	15.7	0.0	36.2
176	17.2	0.0	39.4

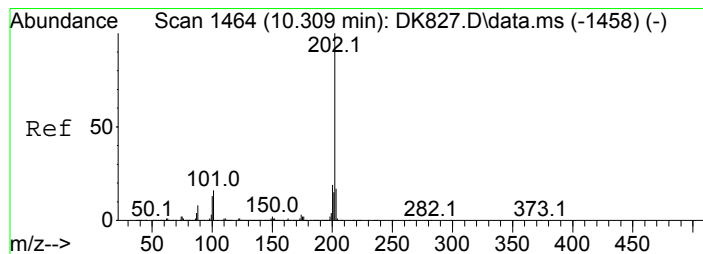


#79  
 Carbazole  
 Concen: 1.47 ppm  
 RT: 9.365 min Scan# 1306  
 Delta R.T. -0.015 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

Tgt Ion	Resp	Lower	Upper
167	100		
166	22.7	1.7	41.7
139	13.5	0.0	32.8

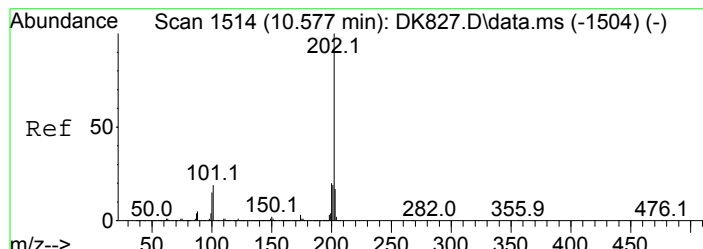
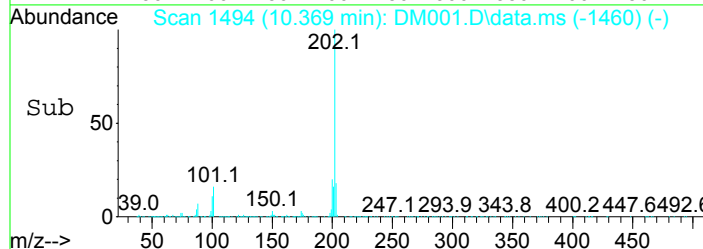
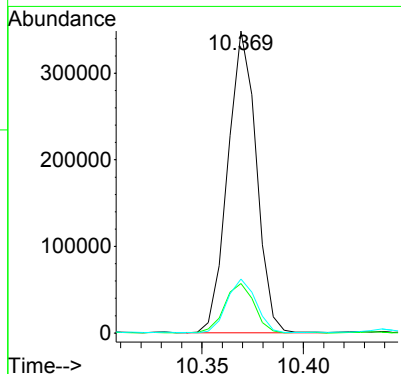
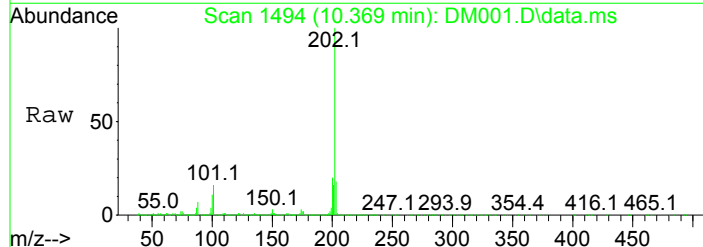






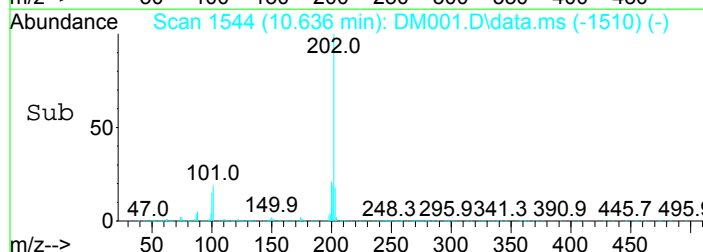
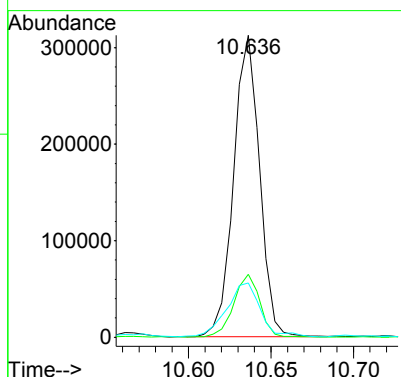
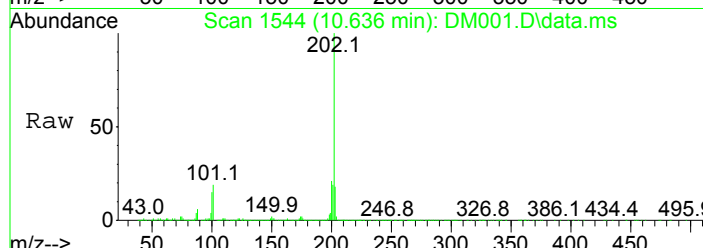
#81  
 Fluoranthene  
 Concen: 20.94 ppm  
 RT: 10.369 min Scan# 1494  
 Delta R.T. -0.020 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

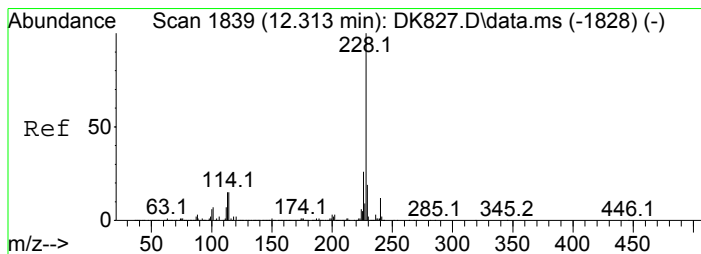
Tgt Ion	Resp	Lower	Upper
202	342322		
101	16.3	0.0	35.1
203	17.7	0.0	37.7



#84  
 Pyrene  
 Concen: 21.03 ppm  
 RT: 10.636 min Scan# 1544  
 Delta R.T. -0.020 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

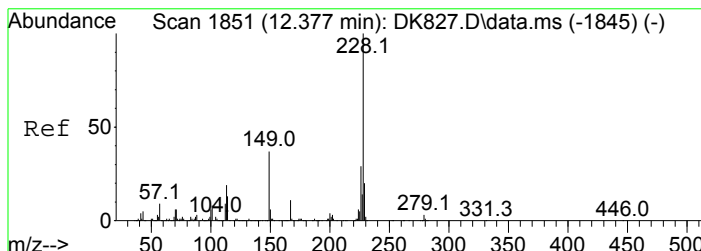
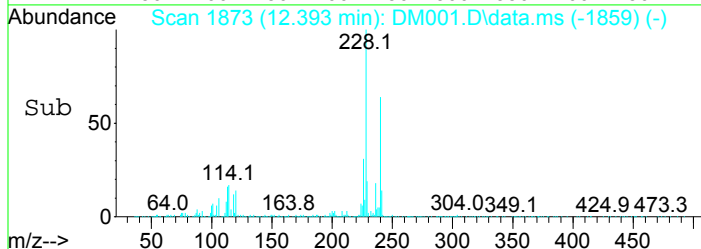
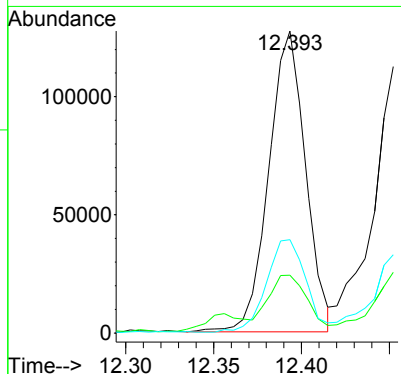
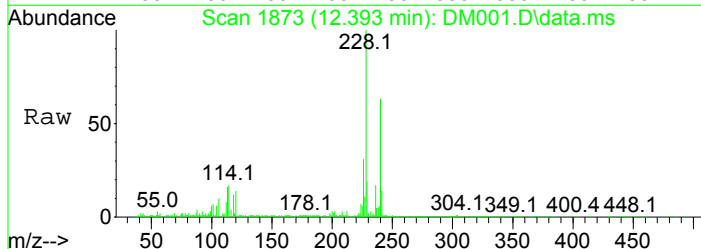
Tgt Ion	Resp	Lower	Upper
202	341872		
200	20.8	1.7	41.7
203	17.7	0.0	37.6





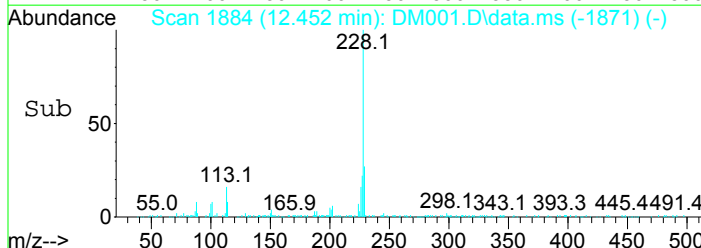
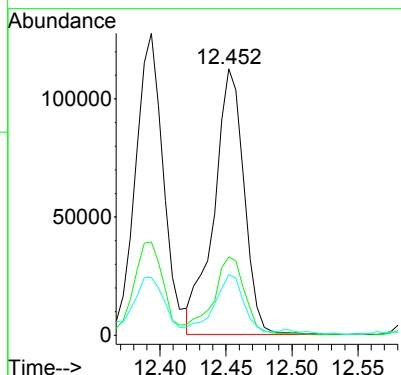
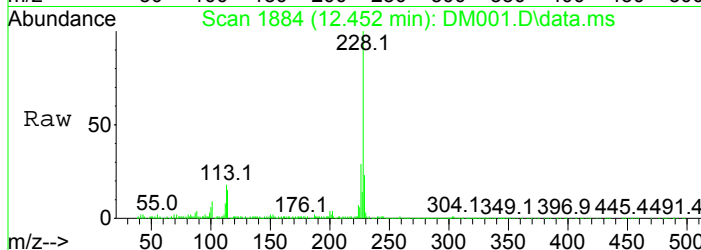
#88  
 Benzo(a)anthracene  
 Concen: 12.03 ppm  
 RT: 12.393 min Scan# 1873  
 Delta R.T. -0.024 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

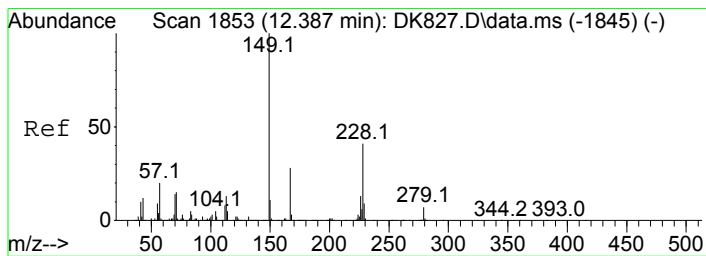
Tgt Ion	Resp	Lower	Upper
228	185089		
229	18.1	0.0	39.4
226	30.3	7.9	47.9



#89  
 Chrysene  
 Concen: 12.34 ppm  
 RT: 12.452 min Scan# 1884  
 Delta R.T. -0.031 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

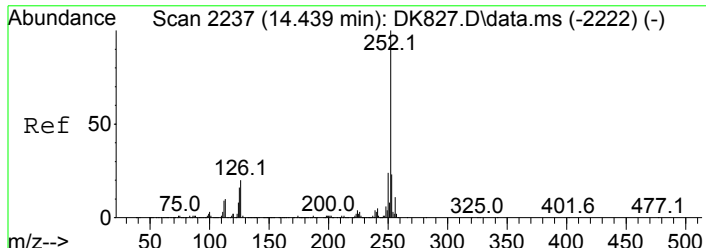
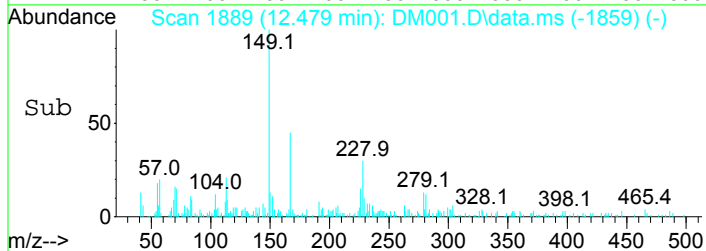
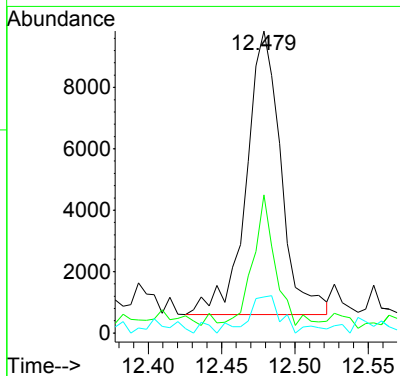
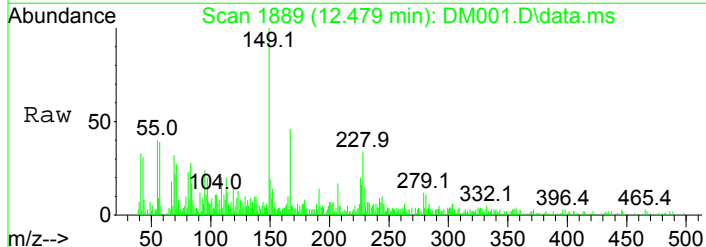
Tgt Ion	Resp	Lower	Upper
228	177523		
226	28.7	9.9	49.9
229	22.1	0.0	39.5





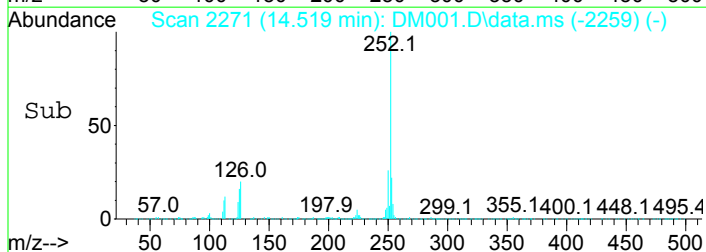
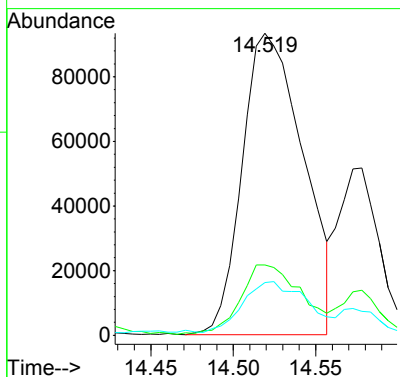
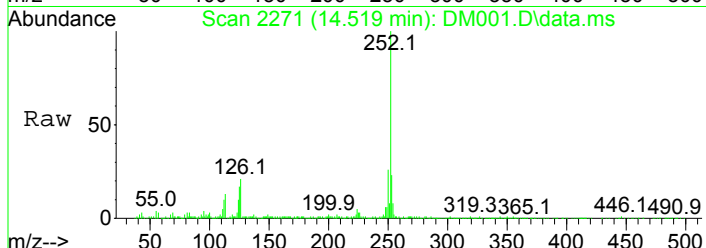
#90  
 bis(2-Ethylhexyl)phthalate  
 Concen: 1.28 ppm  
 RT: 12.479 min Scan# 1889  
 Delta R.T. -0.038 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

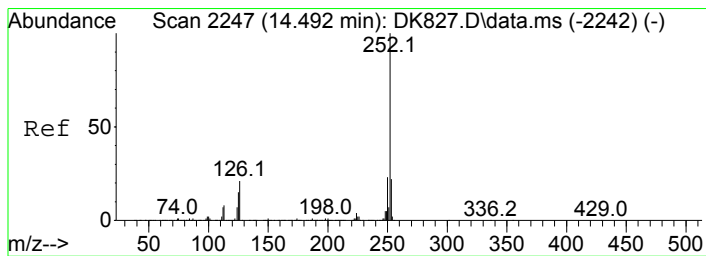
Tgt Ion	Resp	Lower	Upper
149	15181		
167	44.7	9.1	49.1
279	10.8	0.0	26.9



#93  
 Benzo(b)Fluoranthene  
 Concen: 15.07 ppm  
 RT: 14.519 min Scan# 2271  
 Delta R.T. -0.035 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

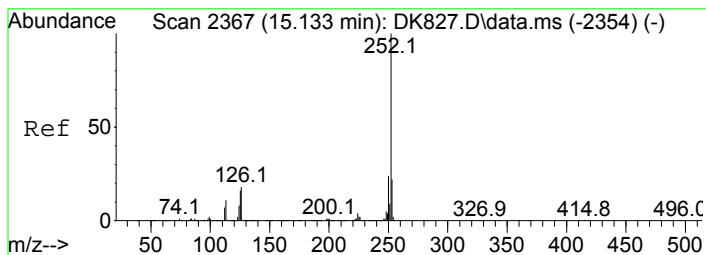
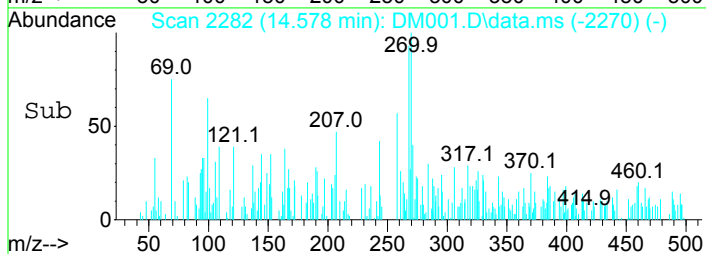
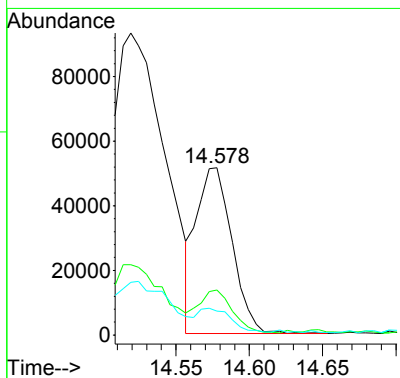
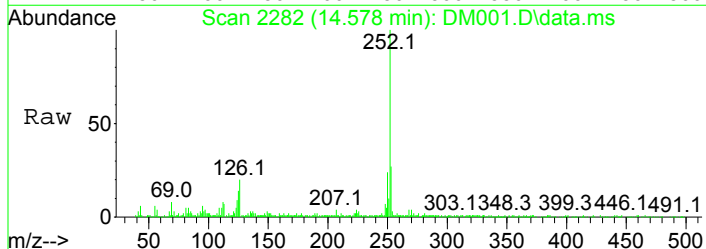
Tgt Ion	Resp	Lower	Upper
252	239867		
253	22.8	4.1	44.1
125	16.1	0.0	37.3





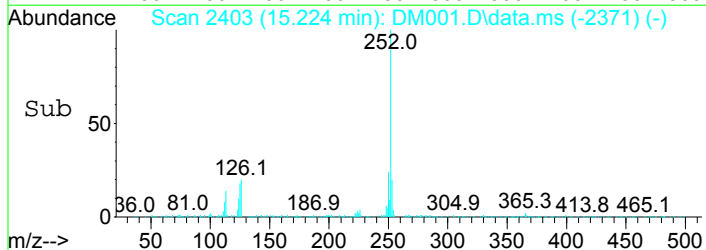
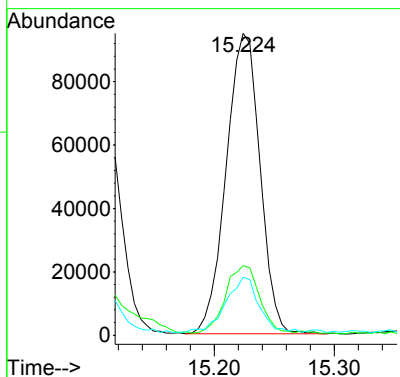
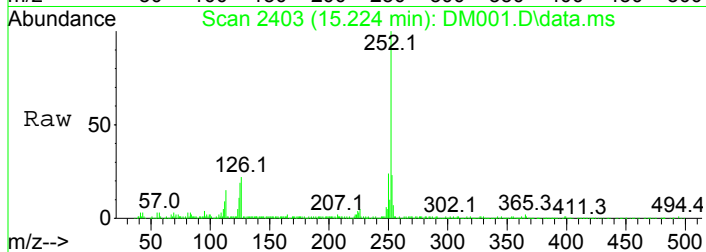
#94  
 Benzo(k)fluoranthene  
 Concen: 5.78 ppm  
 RT: 14.578 min Scan# 2282  
 Delta R.T. -0.034 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

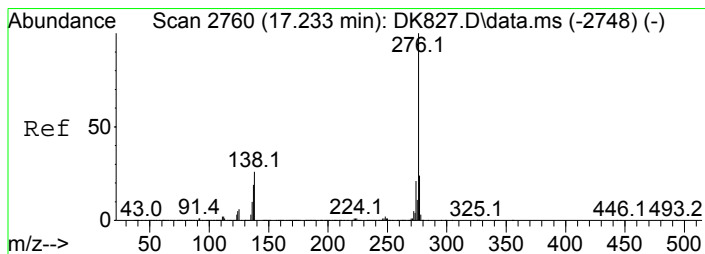
Tgt Ion	Resp	Lower	Upper
252	100		
253	27.2	1.1	41.1
125	11.2	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 13.46 ppm  
 RT: 15.224 min Scan# 2403  
 Delta R.T. -0.029 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

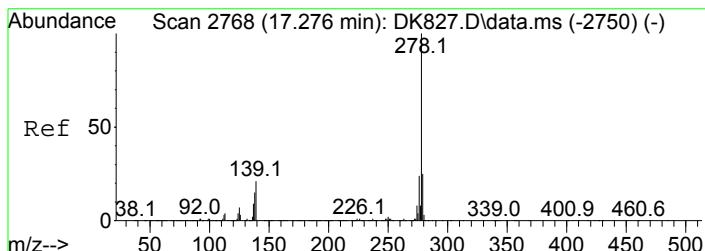
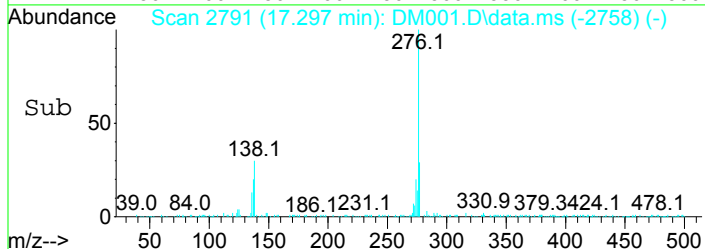
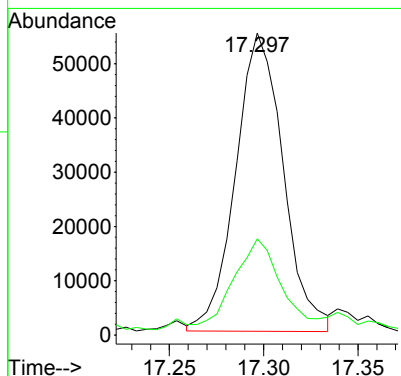
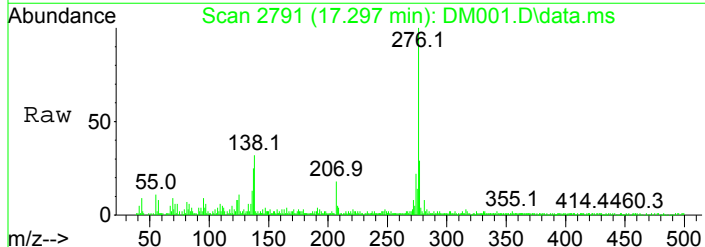
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.3	1.3	41.3
125	18.4	0.0	36.3





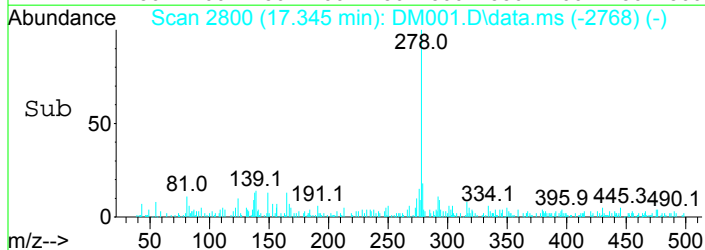
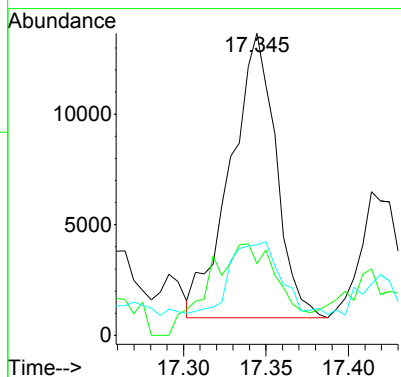
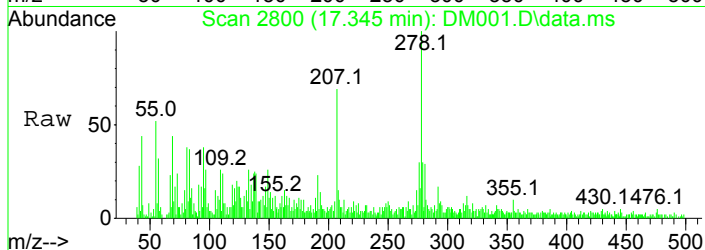
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 7.54 ppm  
 RT: 17.297 min Scan# 2791  
 Delta R.T. -0.025 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

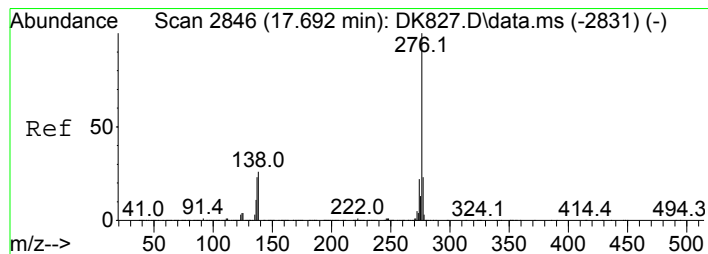
Tgt Ion	Resp	Lower	Upper
276	96657		
138	28.8	6.0	46.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 1.76 ppm  
 RT: 17.345 min Scan# 2800  
 Delta R.T. -0.031 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

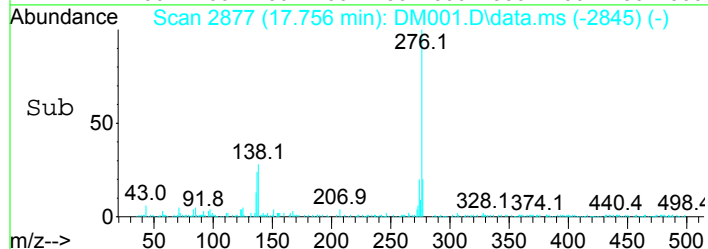
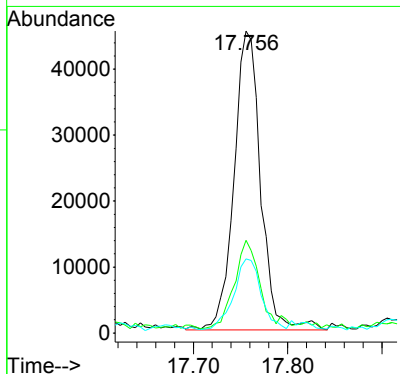
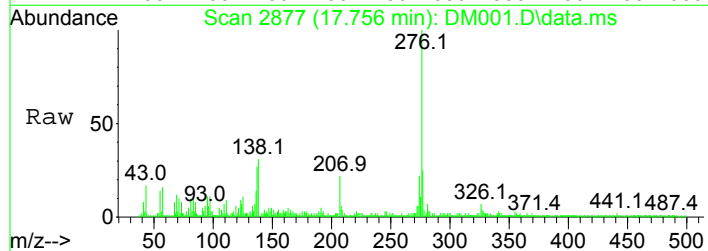
Tgt Ion	Resp	Lower	Upper
278	24657		
139	15.8	2.6	42.6
279	29.6	4.6	44.6





#98  
 Benzo(g,h,i)perylene  
 Concen: 6.92 ppm  
 RT: 17.756 min Scan# 2877  
 Delta R.T. -0.027 min  
 Lab File: DM001.D  
 Acq: 22 Feb 2018 8:04 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	28.4	10.9	50.9
277	23.5	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM002.D  
 Acq On : 22 Feb 2018 8:31 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-011|5.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 16 Sample Multiplier: 1

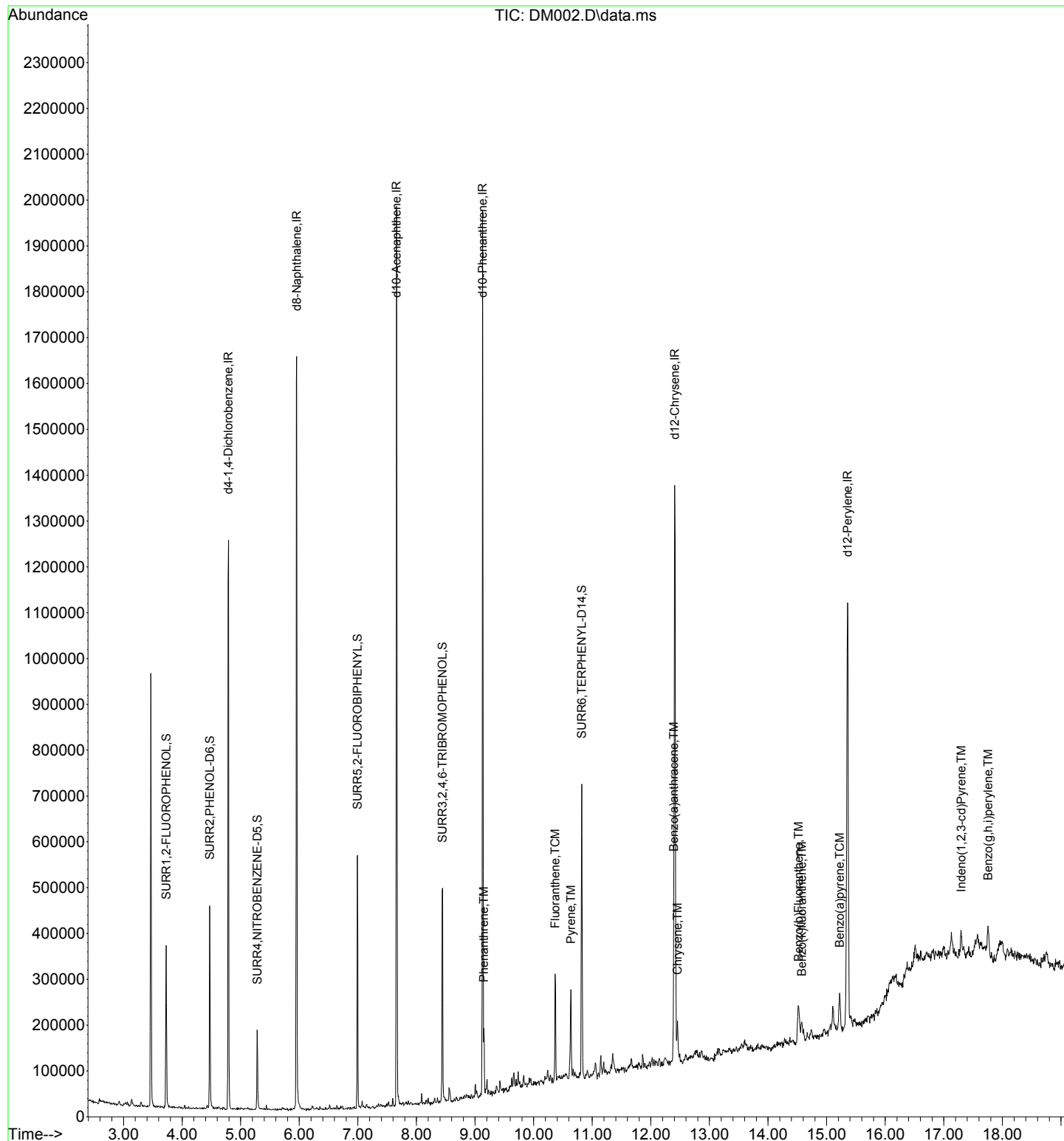
Quant Time: Feb 26 14:57:10 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.791	152	211262	40.00	ppm	-0.01	
24) d8-Naphthalene	5.956	136	795880	40.00	ppm	-0.01	
42) d10-Acenaphthene	7.659	164	383706	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.128	188	667038	40.00	ppm	-0.02	
82) d12-Chrysene	12.408	240	597529	40.00	ppm	-0.03	
91) d12-Perylene	15.356	264	599950	40.00	ppm	-0.03	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.728	112	126702	18.52	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	9.26%#	
8) SURR2,PHENOL-D6	4.471	99	186883	22.03	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	11.02%	
25) SURR4,NITROBENZENE-D5	5.283	82	57706	9.86	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	9.86%#	
48) SURR5,2-FLUOROBIPHENYL	6.992	172	162603	11.99	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	11.99%#	
67) SURR3,2,4,6-TRIBROMOPH...	8.444	330	66568	36.38	ppm	-0.01	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	18.19%	
85) SURR6,TERPHENYL-D14	10.821	244	234701	18.29	ppm	-0.02	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	18.29%	
<b>Target Compounds</b>							
							Qvalue
77) Phenanthrene	9.149	178	50481	2.884	ppm		98
81) Fluoranthene	10.367	202	98115	5.483	ppm		98
84) Pyrene	10.634	202	87742	4.963	ppm		97
88) Benzo(a)anthracene	12.392	228	49573	2.962	ppm		99
89) Chrysene	12.456	228	49678	3.174	ppm		97
93) Benzo(b)Fluoranthene	14.523	252	66582	3.908	ppm		90
94) Benzo(k)fluoranthene	14.576	252	25111	1.559	ppm		91
95) Benzo(a)pyrene	15.222	252	48793	3.331	ppm		89
96) Indeno(1,2,3-cd)Pyrene	17.300	276	31407	2.287	ppm		89
98) Benzo(g,h,i)perylene	17.754	276	32901	2.395	ppm		89

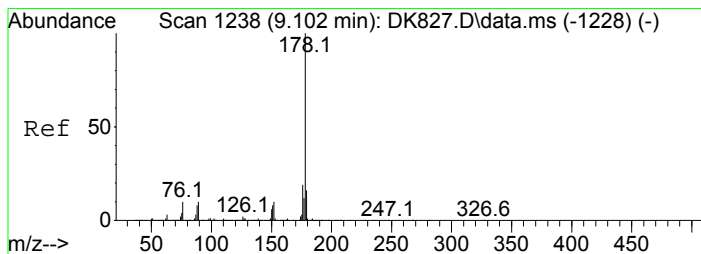
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM002.D  
Acq On : 22 Feb 2018 8:31 pm  
Operator : J.Misiurewicz  
Sample : R1801453-011|5.0  
Misc : 308725 8270D SOIL  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 26 14:57:10 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration

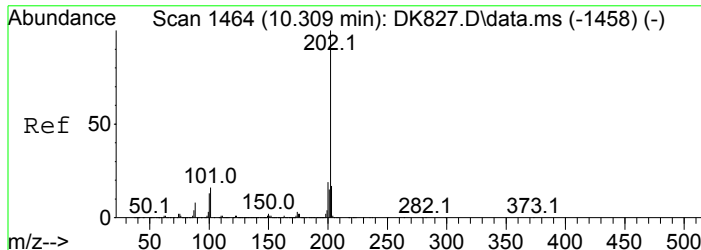
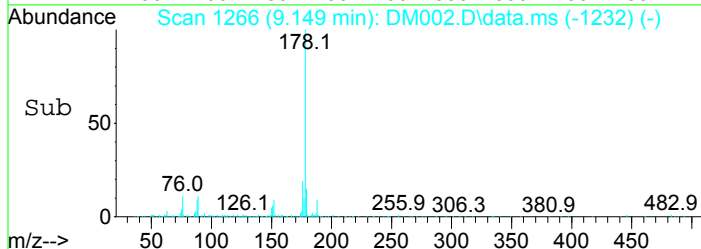
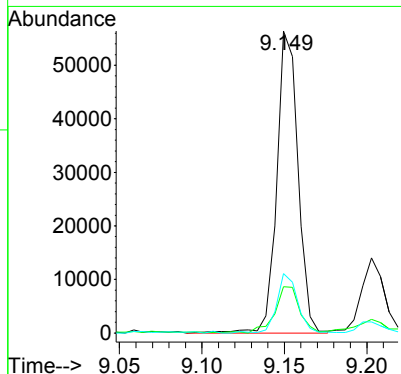
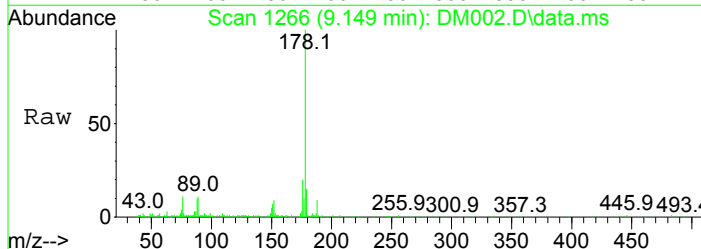






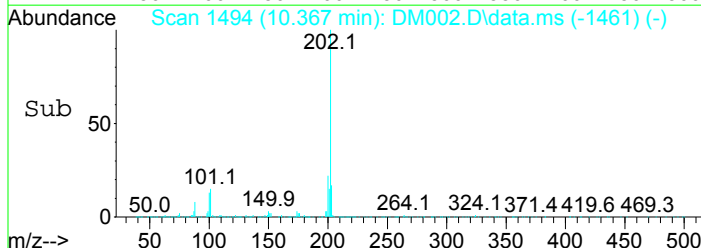
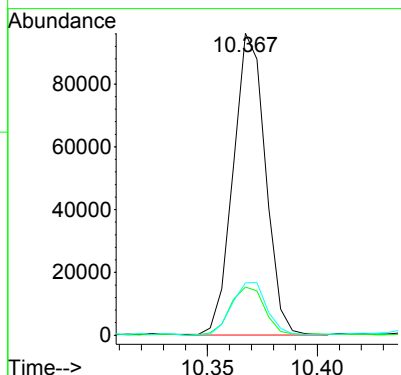
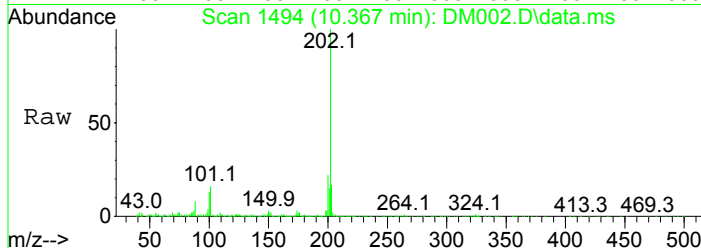
#77  
 Phenanthrene  
 Concen: 2.88 ppm  
 RT: 9.149 min Scan# 1266  
 Delta R.T. -0.020 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

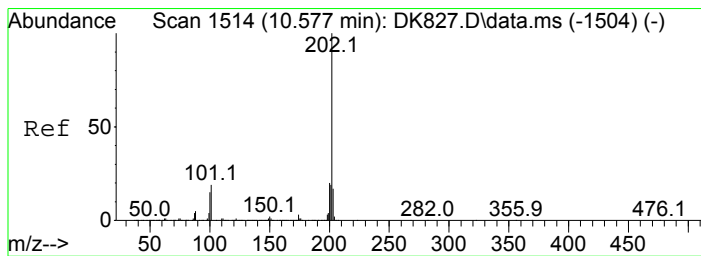
Tgt Ion	Resp	Lower	Upper
178	50481		
179	14.9	0.0	36.3
176	19.4	0.0	39.7



#81  
 Fluoranthene  
 Concen: 5.48 ppm  
 RT: 10.367 min Scan# 1494  
 Delta R.T. -0.022 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

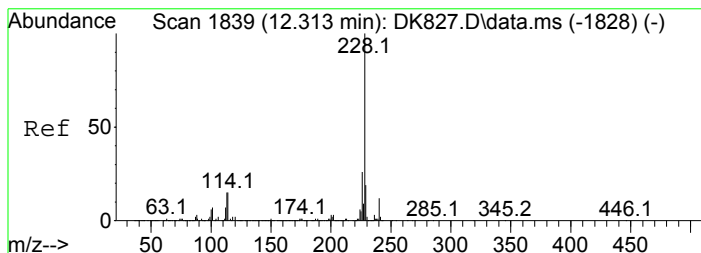
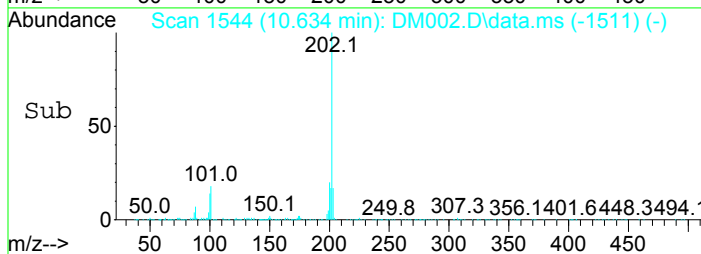
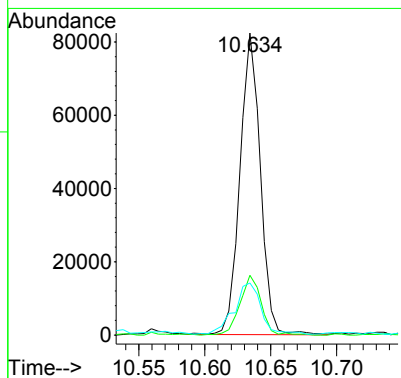
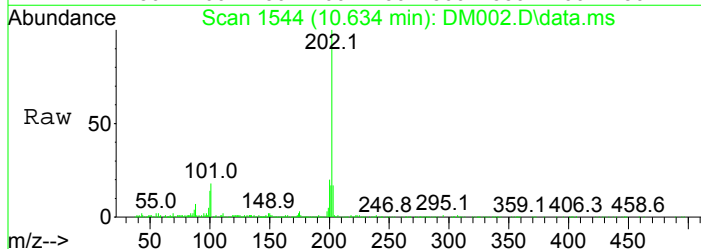
Tgt Ion	Resp	Lower	Upper
202	98115		
101	15.8	0.0	35.1
203	17.1	0.0	37.7





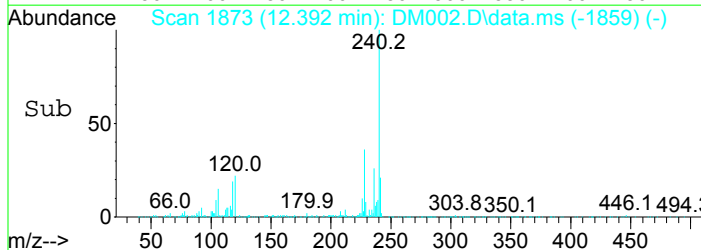
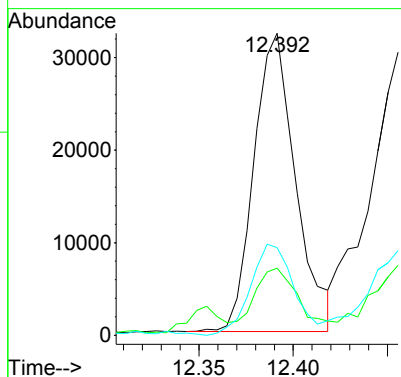
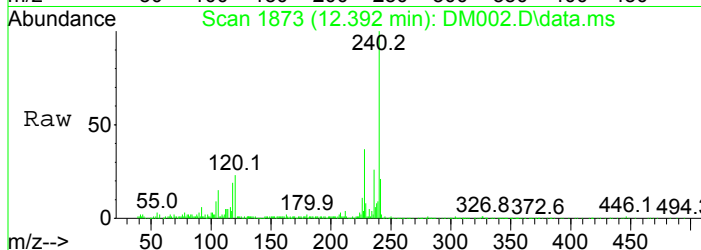
#84  
 Pyrene  
 Concen: 4.96 ppm  
 RT: 10.634 min Scan# 1544  
 Delta R.T. -0.022 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

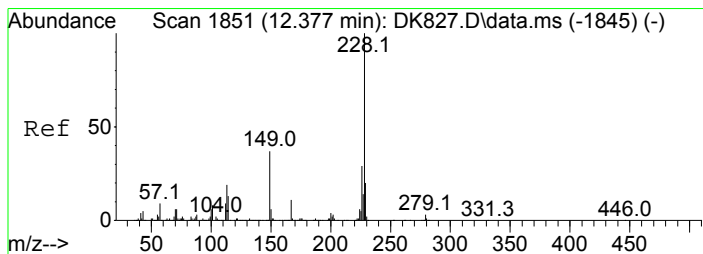
Tgt Ion	Resp	Lower	Upper
202	100		
200	19.7	1.7	41.7
203	16.6	0.0	37.6



#88  
 Benzo(a)anthracene  
 Concen: 2.96 ppm  
 RT: 12.392 min Scan# 1873  
 Delta R.T. -0.026 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

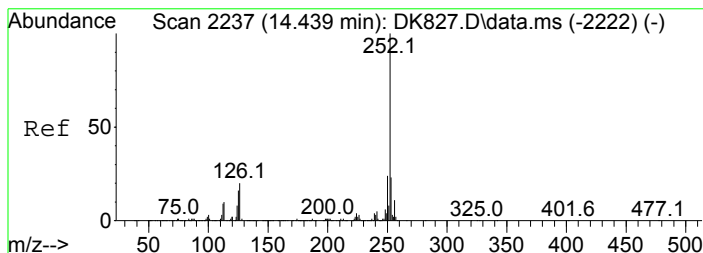
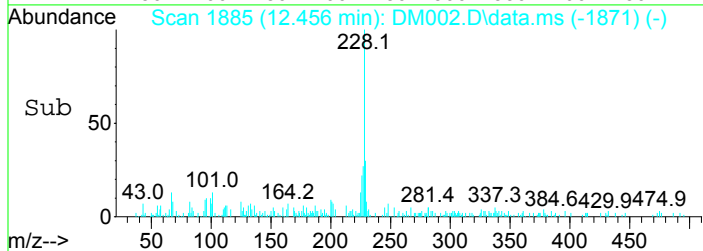
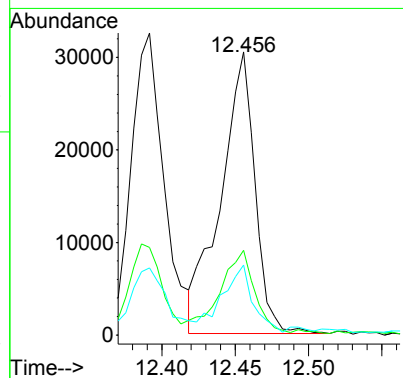
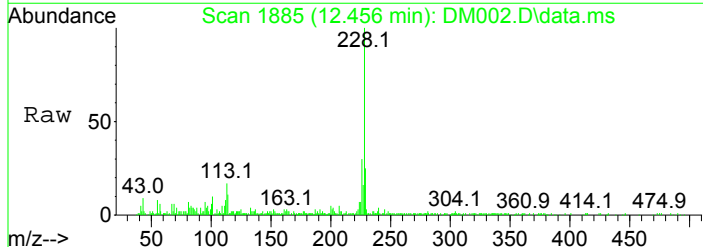
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.4	0.0	39.4
226	28.6	7.9	47.9





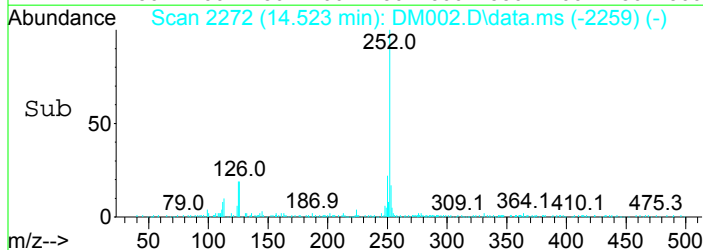
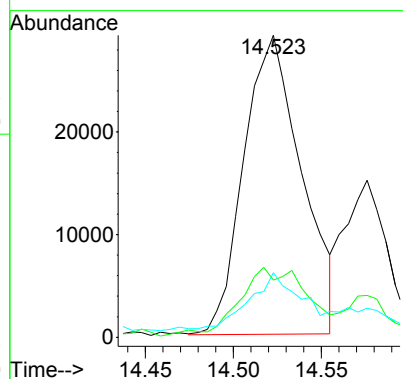
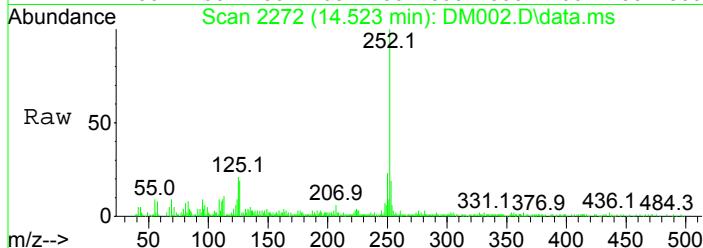
#89  
 Chrysene  
 Concen: 3.17 ppm  
 RT: 12.456 min Scan# 1885  
 Delta R.T. -0.027 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

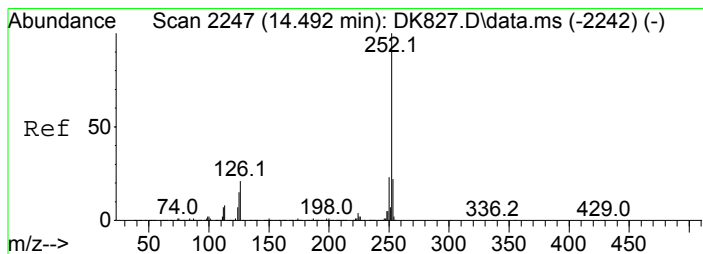
Tgt Ion	Resp	Lower	Upper
228	49678		
226	29.5	9.9	49.9
229	23.0	0.0	39.5



#93  
 Benzo(b)Fluoranthene  
 Concen: 3.91 ppm  
 RT: 14.523 min Scan# 2272  
 Delta R.T. -0.032 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

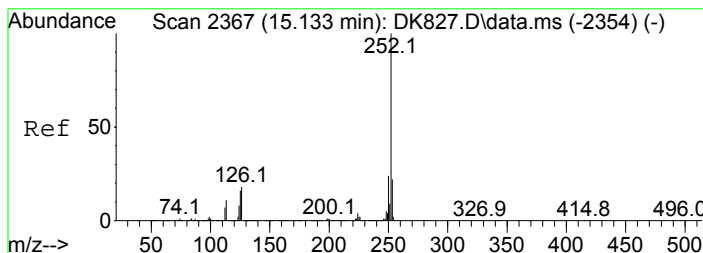
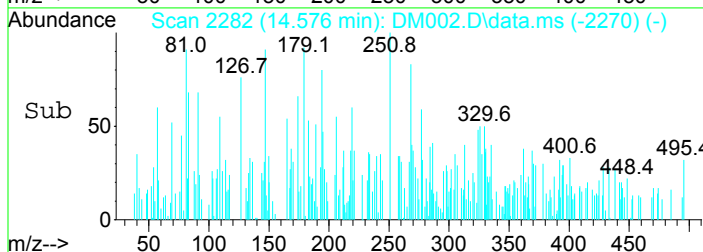
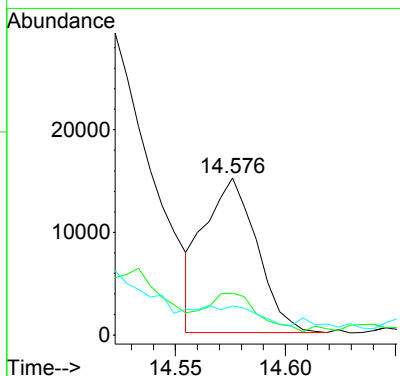
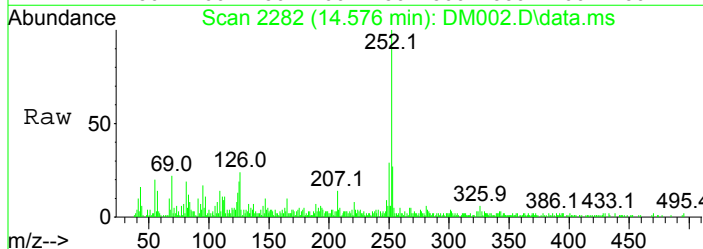
Tgt Ion	Resp	Lower	Upper
252	66582		
253	16.4	4.1	44.1
125	18.3	0.0	37.3





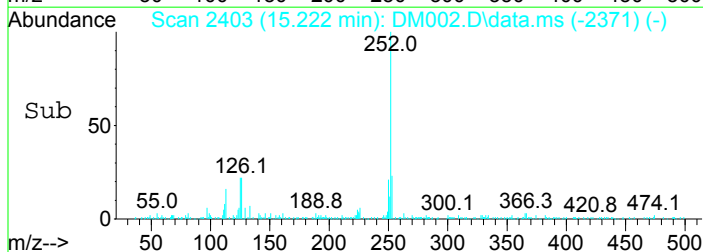
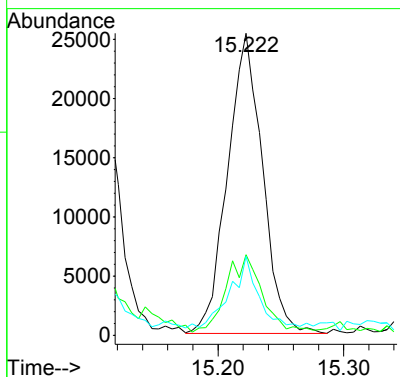
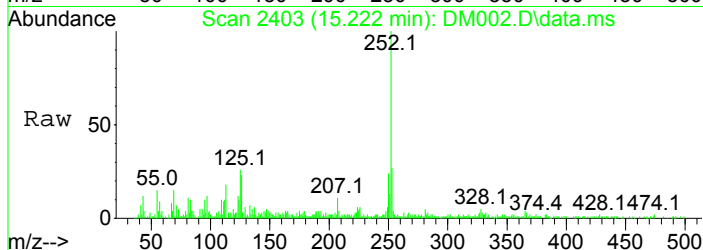
#94  
 Benzo(k)fluoranthene  
 Concen: 1.56 ppm  
 RT: 14.576 min Scan# 2282  
 Delta R.T. -0.036 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

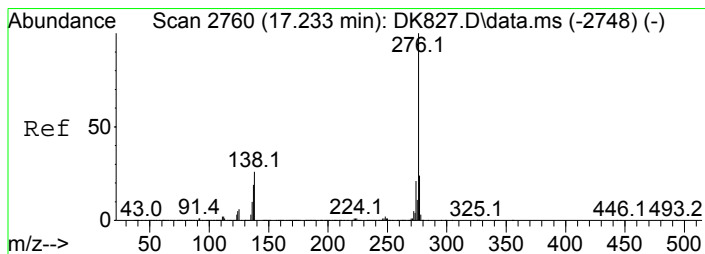
Tgt Ion	Resp	Lower	Upper
252	100		
253	24.1	1.1	41.1
125	9.4	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 3.33 ppm  
 RT: 15.222 min Scan# 2403  
 Delta R.T. -0.031 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

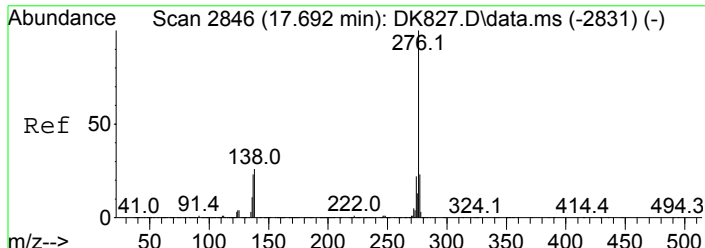
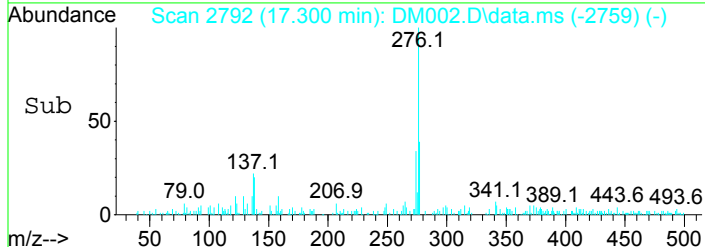
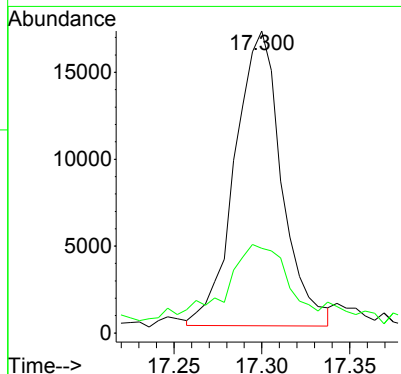
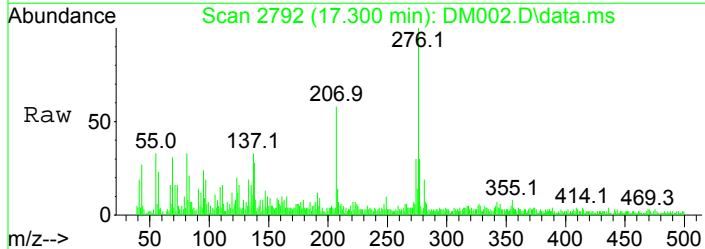
Tgt Ion	Resp	Lower	Upper
252	100		
253	24.4	1.3	41.3
125	23.5	0.0	36.3





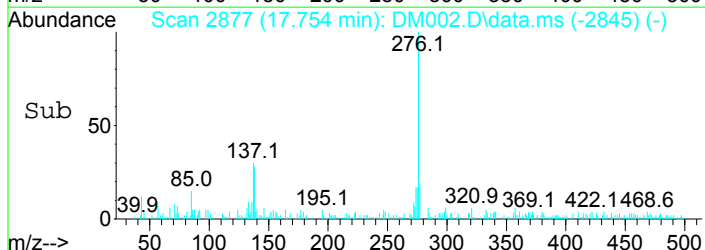
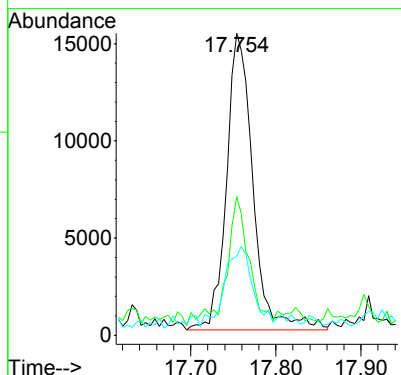
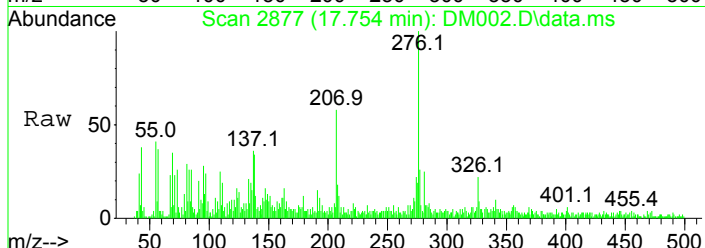
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 2.29 ppm  
 RT: 17.300 min Scan# 2792  
 Delta R.T. -0.022 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	20.4	6.0	46.0



#98  
 Benzo(g,h,i)perylene  
 Concen: 2.40 ppm  
 RT: 17.754 min Scan# 2877  
 Delta R.T. -0.029 min  
 Lab File: DM002.D  
 Acq: 22 Feb 2018 8:31 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	40.9	10.9	50.9
277	23.0	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM003.D  
 Acq On : 22 Feb 2018 8:59 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-012|2.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 17 Sample Multiplier: 1

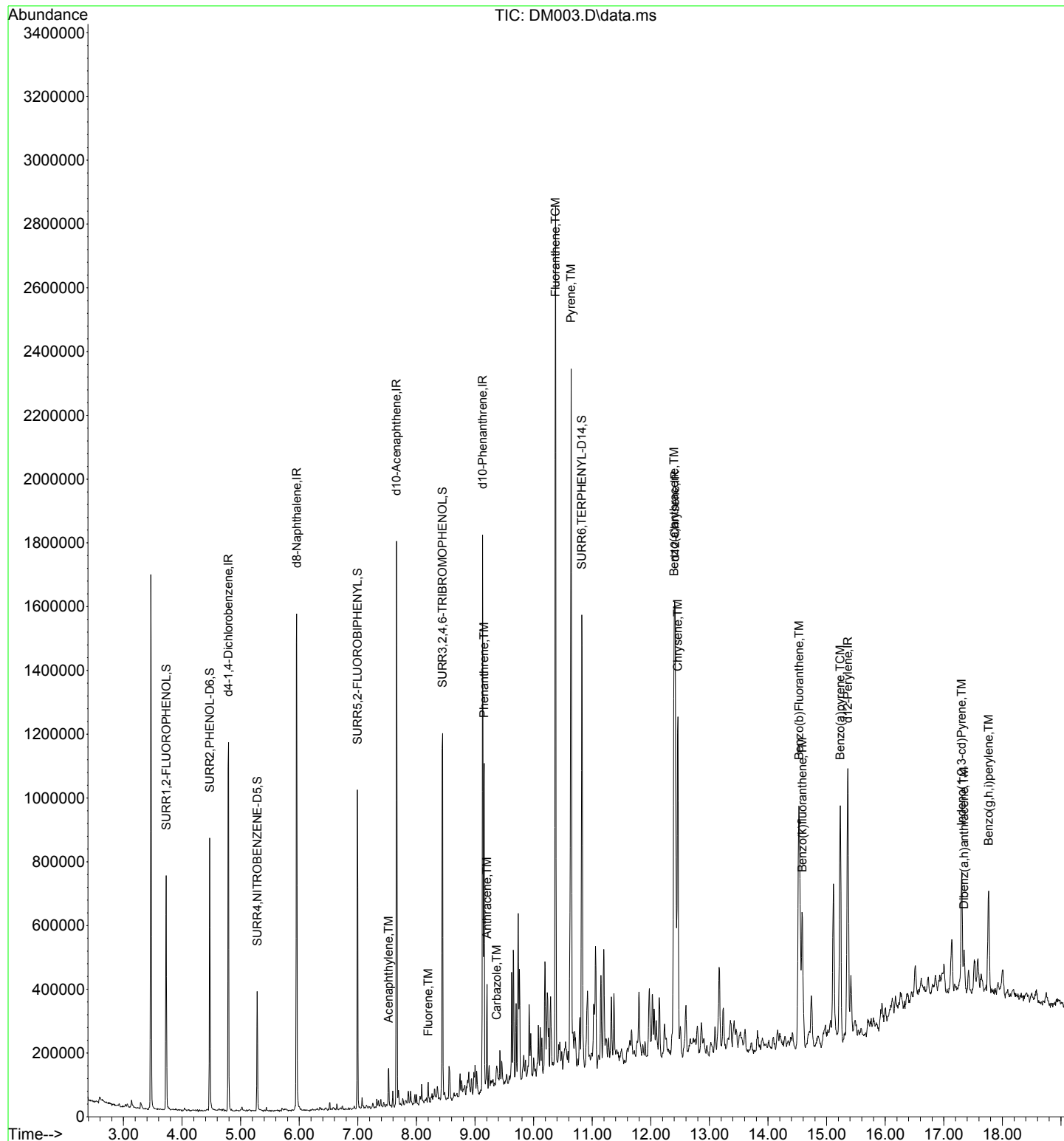
Quant Time: Feb 26 14:57:15 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

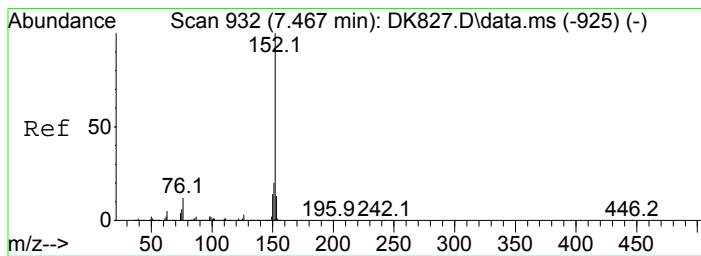
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.791	152	200132	40.00	ppm	-0.01
24) d8-Naphthalene	5.956	136	756891	40.00	ppm	-0.01
42) d10-Acenaphthene	7.660	164	362547	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	622575	40.00	ppm	-0.02
82) d12-Chrysene	12.413	240	555057	40.00	ppm	-0.02
91) d12-Perylene	15.361	264	556607	40.00	ppm	-0.02
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.729	112	252988	39.03	ppm	0.00
Spiked Amount	200.000	Range	16 - 129	Recovery	=	19.52%
8) SURR2,PHENOL-D6	4.471	99	349708	43.52	ppm	0.00
Spiked Amount	200.000	Range	10 - 145	Recovery	=	21.76%
25) SURR4,NITROBENZENE-D5	5.283	82	115451	20.74	ppm	-0.01
Spiked Amount	100.000	Range	11 - 91	Recovery	=	20.74%
48) SURR5,2-FLUOROBIPHENYL	6.992	172	289969	22.63	ppm	-0.02
Spiked Amount	100.000	Range	14 - 102	Recovery	=	22.63%
67) SURR3,2,4,6-TRIBROMOPH...	8.445	330	158786	91.84	ppm	-0.01
Spiked Amount	200.000	Range	10 - 109	Recovery	=	45.92%
85) SURR6,TERPHENYL-D14	10.822	244	550136	46.15	ppm	-0.02
Spiked Amount	100.000	Range	16 - 120	Recovery	=	46.15%
<b>Target Compounds</b>						
52) Acenaphthylene	7.526	152	59941	3.404	ppm	99
63) Fluorene	8.199	166	15443	1.257	ppm	94
77) Phenanthrene	9.155	178	397246	24.312	ppm	97
78) Anthracene	9.203	178	125325	7.688	ppm	99
79) Carbazole	9.369	167	20494	1.216	ppm	88
81) Fluoranthene	10.373	202	1074459	64.331	ppm	98
84) Pyrene	10.640	202	1009377	61.462	ppm	98
88) Benzo(a)anthracene	12.397	228	665511	42.807	ppm	98
89) Chrysene	12.461	228	608692	41.869	ppm	99
93) Benzo(b)Fluoranthene	14.528	252	685934	43.399	ppm	94
94) Benzo(k)fluoranthene	14.587	252	243028	16.265	ppm	99
95) Benzo(a)pyrene	15.233	252	488769	35.960	ppm	97
96) Indeno(1,2,3-cd)Pyrene	17.306	276	259204	20.346	ppm	98
97) Dibenz(a,h)anthracene	17.343	278	74291	5.334	ppm	97
98) Benzo(g,h,i)perylene	17.765	276	214721	16.850	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM003.D  
Acq On : 22 Feb 2018 8:59 pm  
Operator : J.Misiurewicz  
Sample : R1801453-012|2.0  
Misc : 308725 8270D SOIL  
ALS Vial : 17 Sample Multiplier: 1

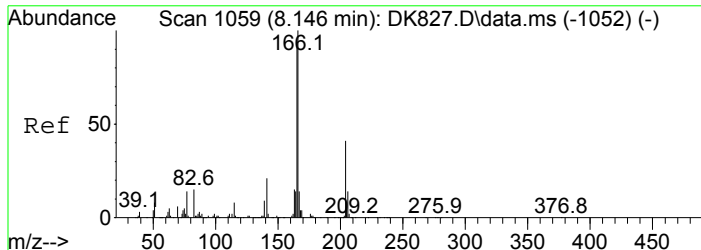
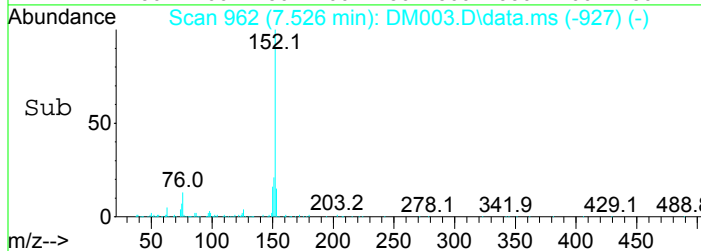
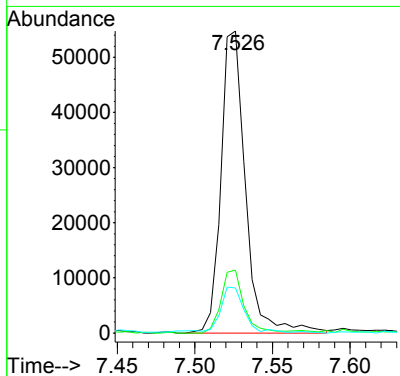
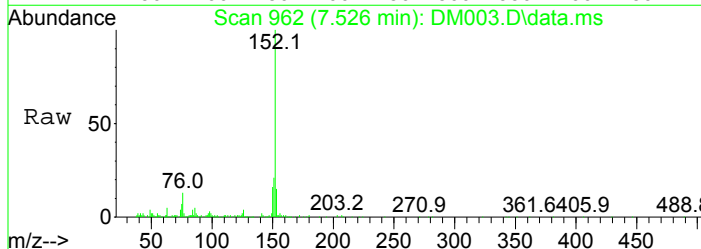
Quant Time: Feb 26 14:57:15 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





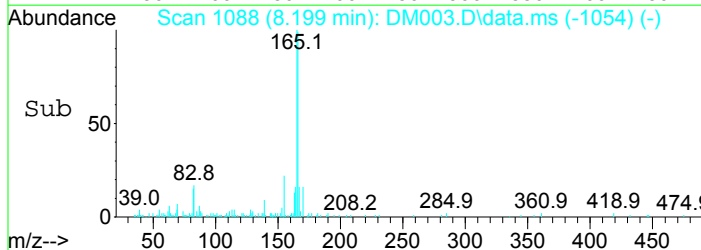
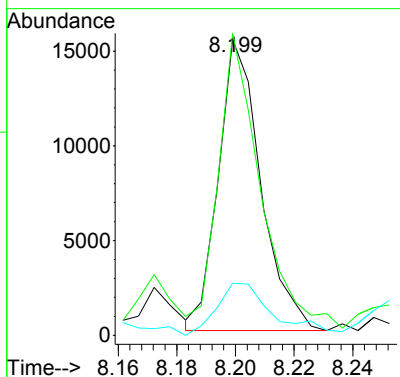
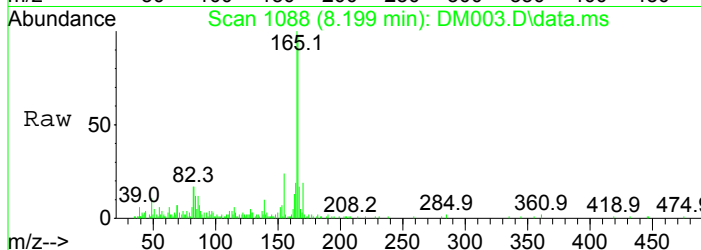
#52  
 Acenaphthylene  
 Concen: 3.40 ppm  
 RT: 7.526 min Scan# 962  
 Delta R.T. -0.013 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

Tgt Ion	Resp	Lower	Upper
152	100		
151	20.5	0.6	40.6
153	14.6	0.0	33.9

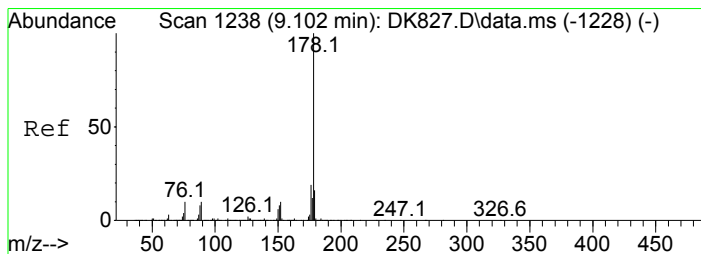


#63  
 Fluorene  
 Concen: 1.26 ppm  
 RT: 8.199 min Scan# 1088  
 Delta R.T. -0.018 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

Tgt Ion	Resp	Lower	Upper
166	100		
165	98.4	62.8	122.8
167	17.3	0.0	43.9

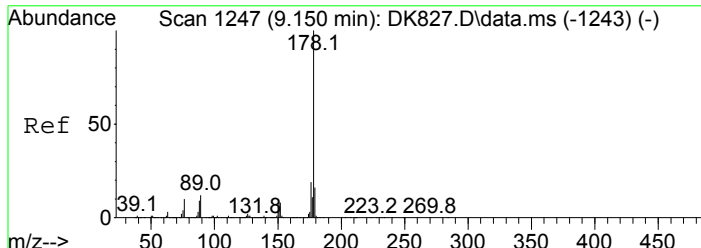
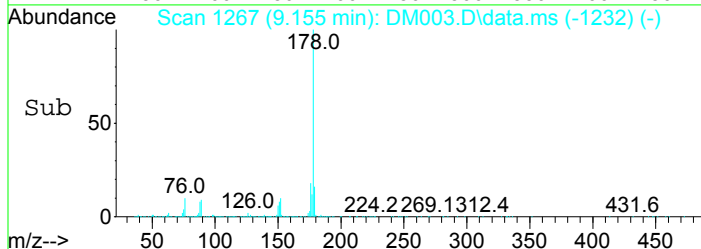
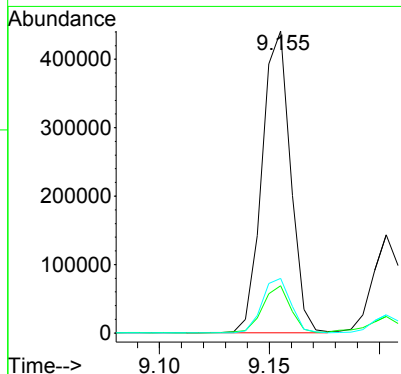
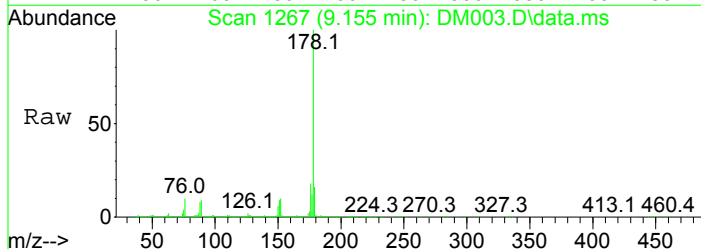






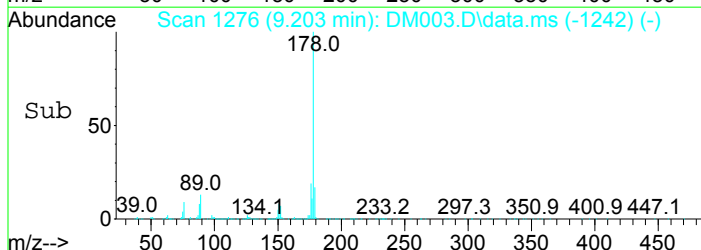
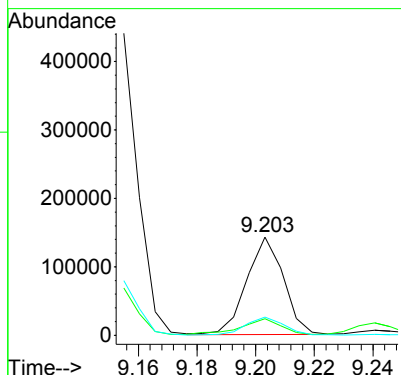
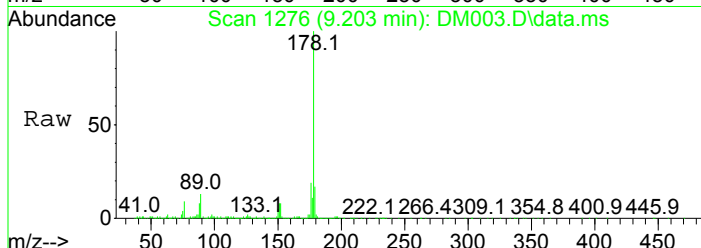
#77  
 Phenanthrene  
 Concen: 24.31 ppm  
 RT: 9.155 min Scan# 1267  
 Delta R.T. -0.015 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

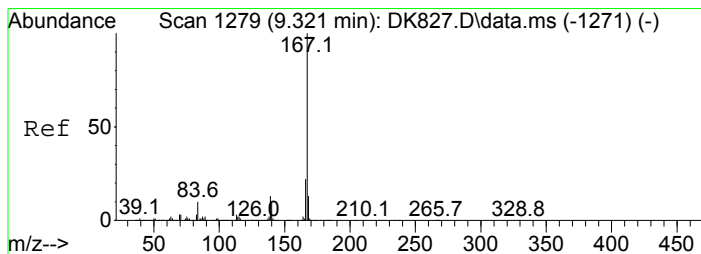
Tgt Ion	Resp	Lower	Upper
178	397246		
179	15.4	0.0	36.3
176	18.1	0.0	39.7



#78  
 Anthracene  
 Concen: 7.69 ppm  
 RT: 9.203 min Scan# 1276  
 Delta R.T. -0.016 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

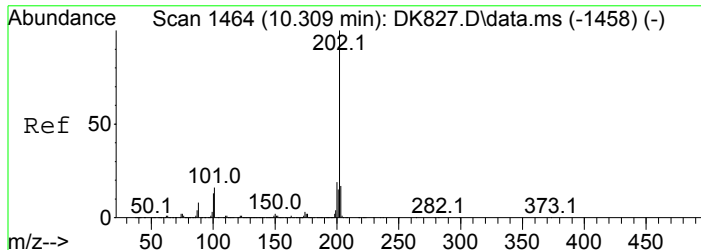
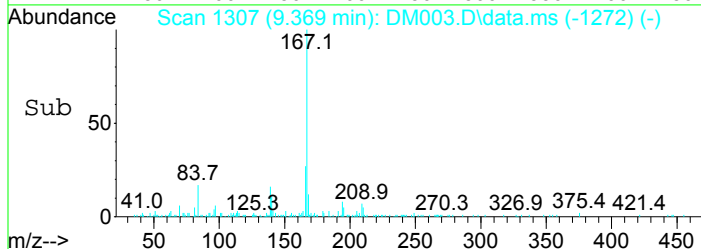
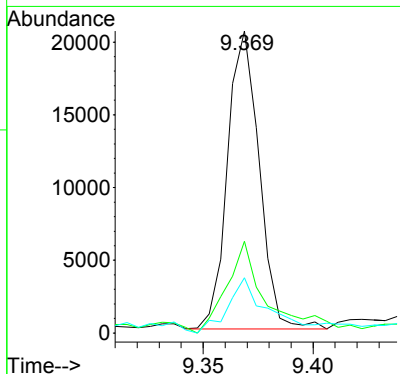
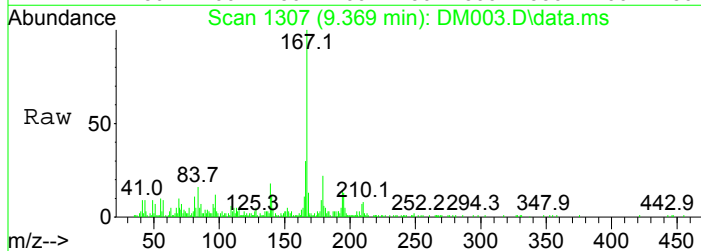
Tgt Ion	Resp	Lower	Upper
178	125325		
179	15.8	0.0	36.2
176	18.6	0.0	39.4





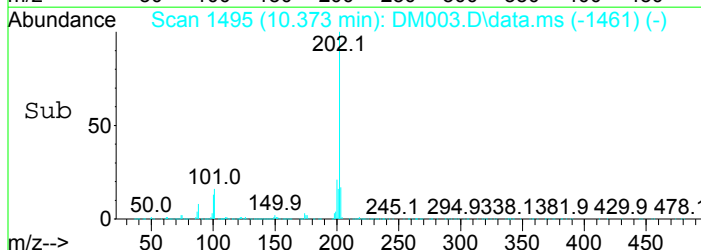
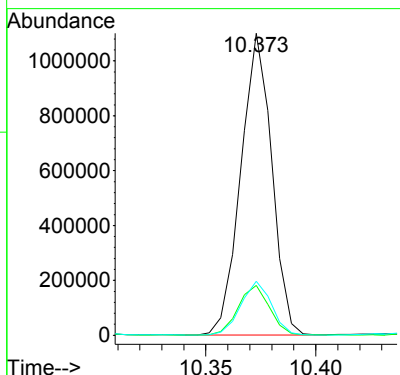
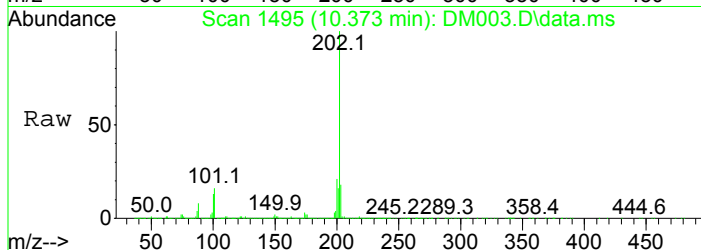
#79  
 Carbazole  
 Concen: 1.22 ppm  
 RT: 9.369 min Scan# 1307  
 Delta R.T. -0.011 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

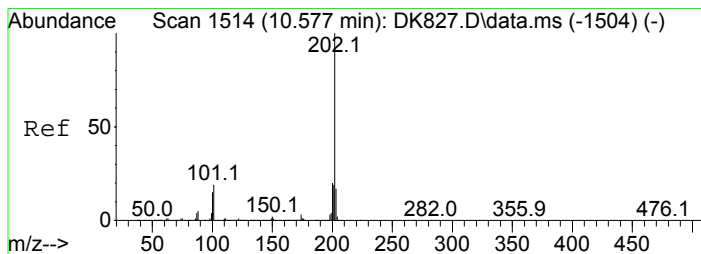
Tgt Ion	Resp	Lower	Upper
167	100		
166	27.9	1.7	41.7
139	16.5	0.0	32.8



#81  
 Fluoranthene  
 Concen: 64.33 ppm  
 RT: 10.373 min Scan# 1495  
 Delta R.T. -0.016 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

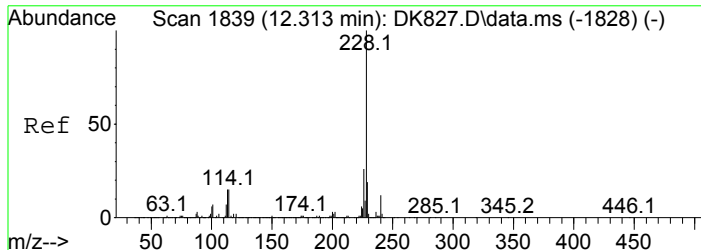
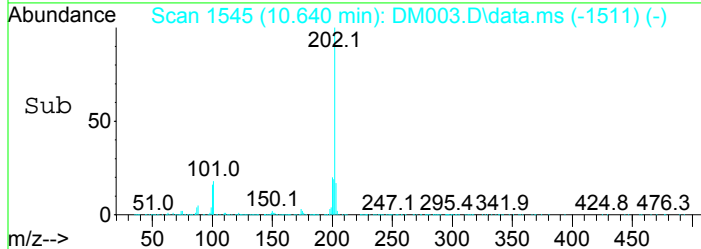
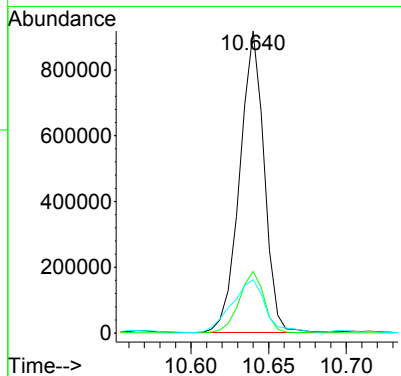
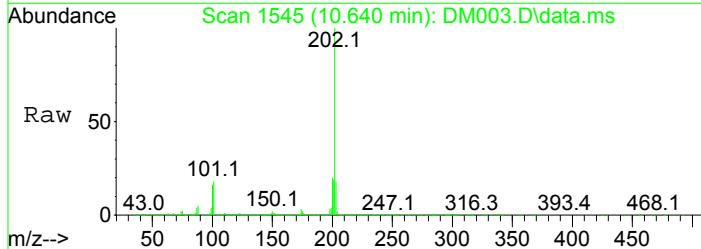
Tgt Ion	Resp	Lower	Upper
202	100		
101	16.4	0.0	35.1
203	17.8	0.0	37.7





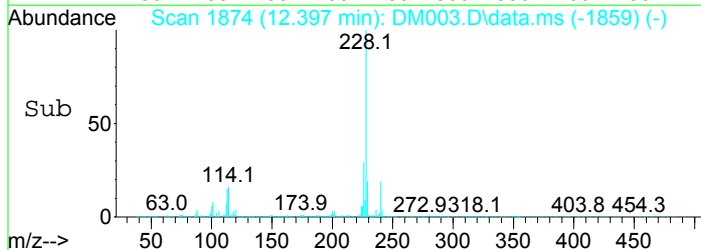
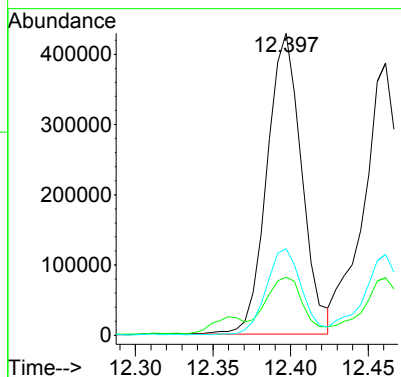
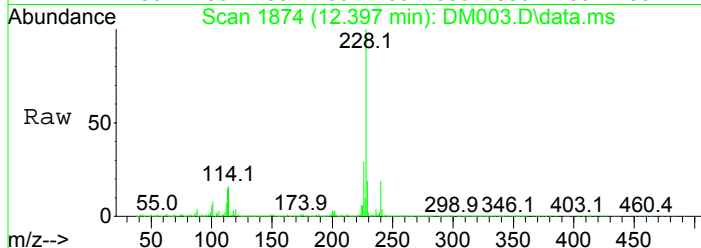
#84  
 Pyrene  
 Concen: 61.46 ppm  
 RT: 10.640 min Scan# 1545  
 Delta R.T. -0.016 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

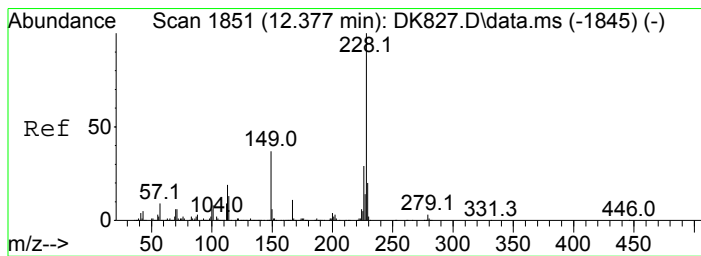
Tgt Ion	Resp	Lower	Upper
202	1009377		
200	20.4	1.7	41.7
203	17.5	0.0	37.6



#88  
 Benzo(a)anthracene  
 Concen: 42.81 ppm  
 RT: 12.397 min Scan# 1874  
 Delta R.T. -0.020 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

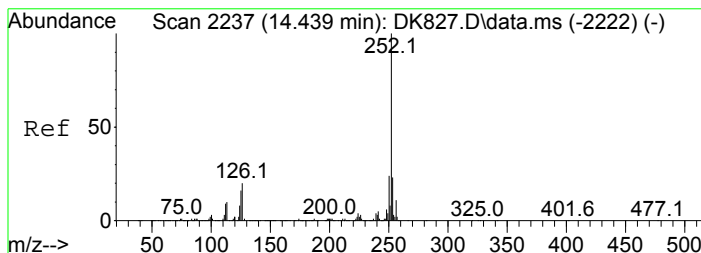
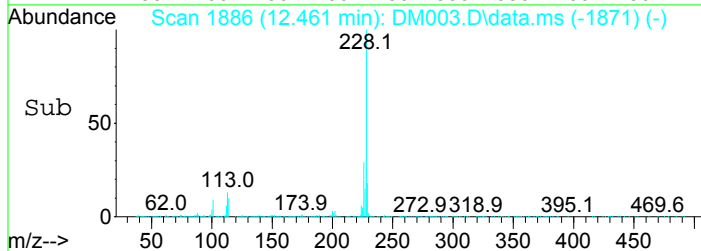
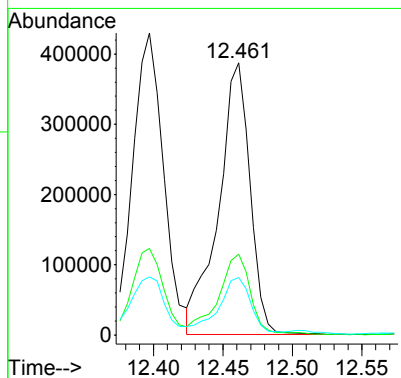
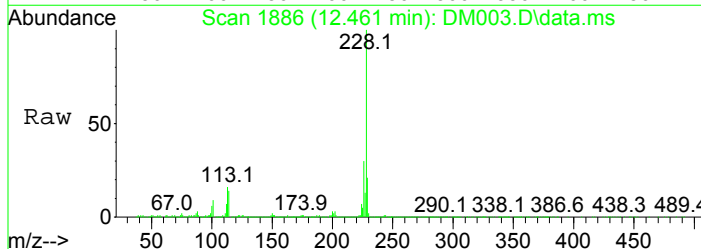
Tgt Ion	Resp	Lower	Upper
228	665511		
229	18.4	0.0	39.4
226	28.5	7.9	47.9





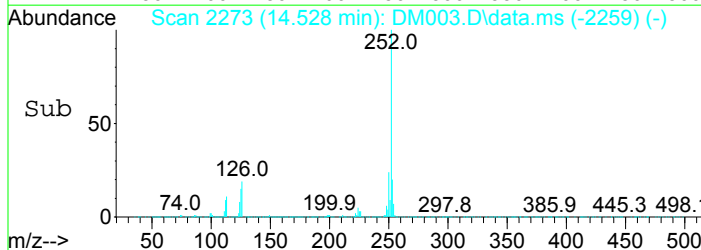
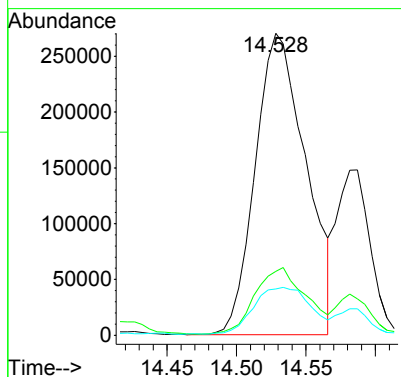
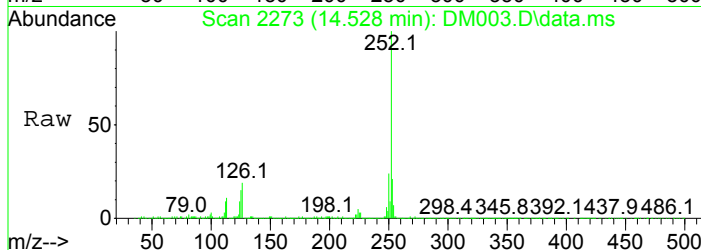
#89  
 Chrysene  
 Concen: 41.87 ppm  
 RT: 12.461 min Scan# 1886  
 Delta R.T. -0.022 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

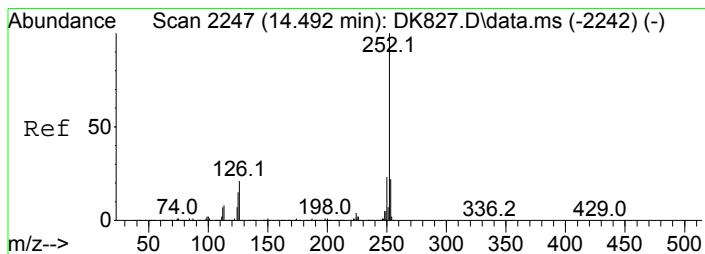
Tgt Ion	Resp	Lower	Upper
228	608692		
226	29.6	9.9	49.9
229	20.2	0.0	39.5



#93  
 Benzo(b)Fluoranthene  
 Concen: 43.40 ppm  
 RT: 14.528 min Scan# 2273  
 Delta R.T. -0.026 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

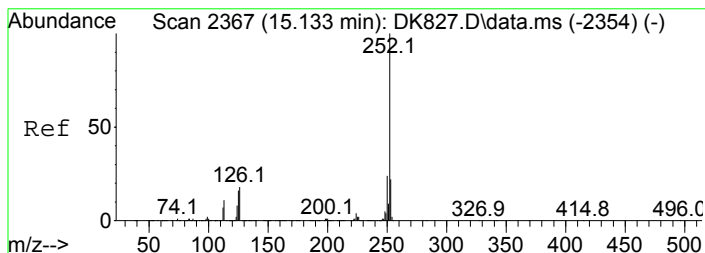
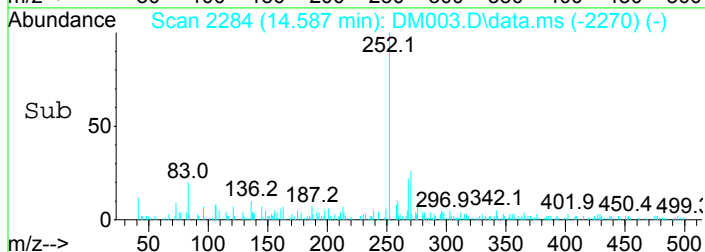
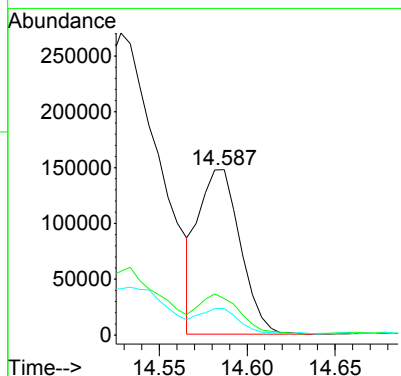
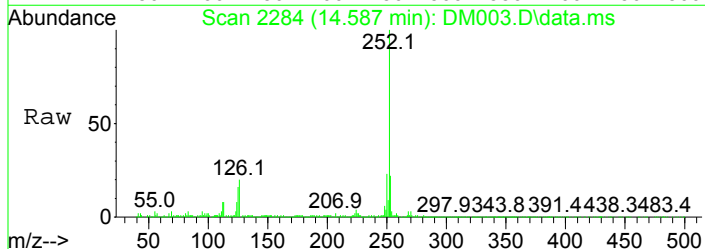
Tgt Ion	Resp	Lower	Upper
252	685934		
253	20.9	4.1	44.1
125	15.0	0.0	37.3





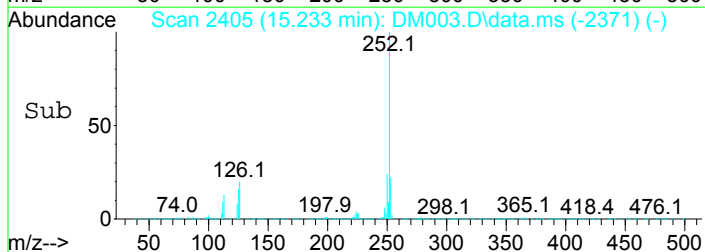
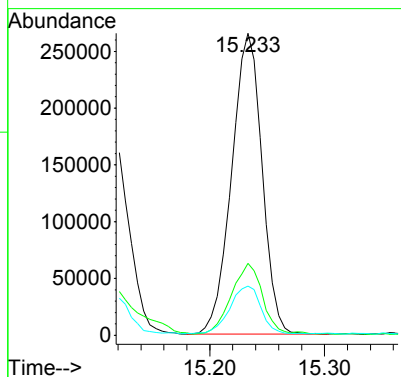
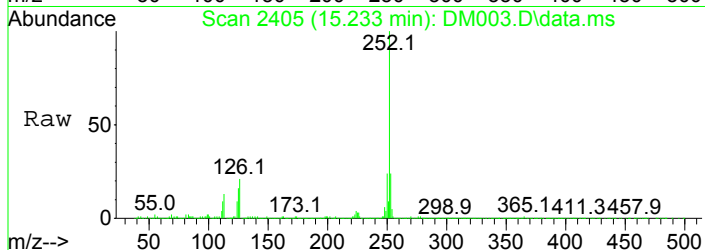
#94  
 Benzo(k)fluoranthene  
 Concen: 16.26 ppm  
 RT: 14.587 min Scan# 2284  
 Delta R.T. -0.025 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

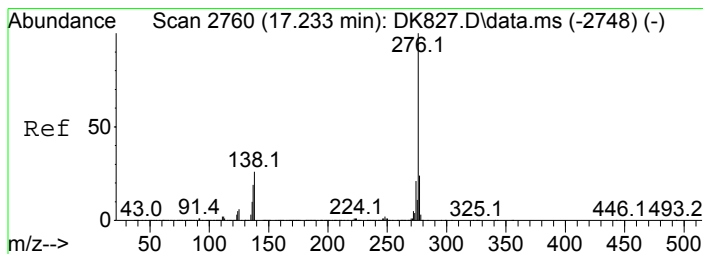
Tgt Ion	Resp	Lower	Upper
252	243028		
253	21.7	1.1	41.1
125	15.6	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 35.96 ppm  
 RT: 15.233 min Scan# 2405  
 Delta R.T. -0.020 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

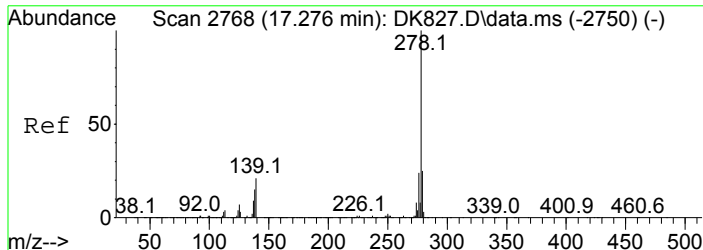
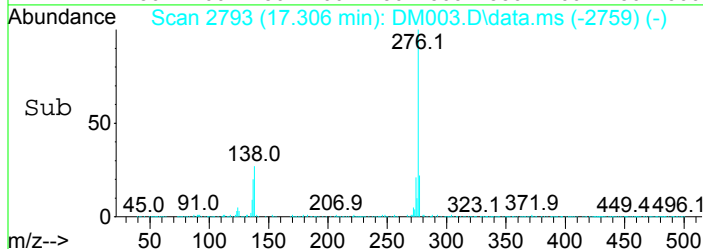
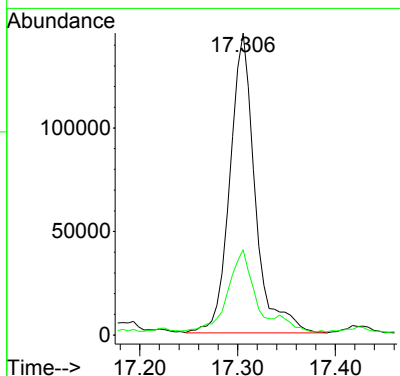
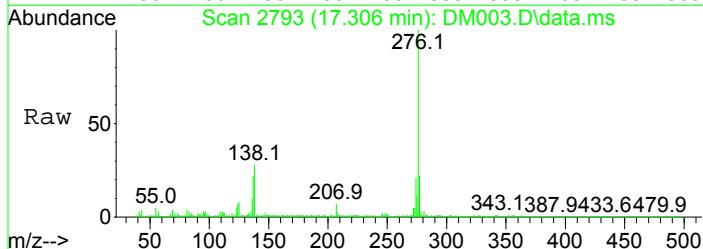
Tgt Ion	Resp	Lower	Upper
252	488769		
253	23.2	1.3	41.3
125	15.6	0.0	36.3





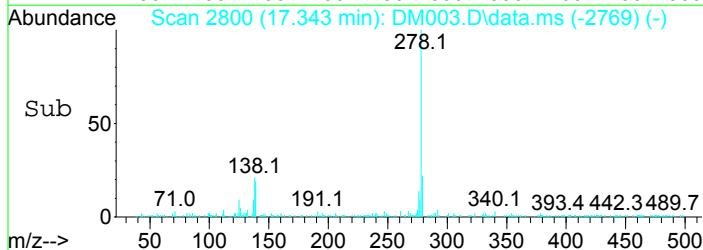
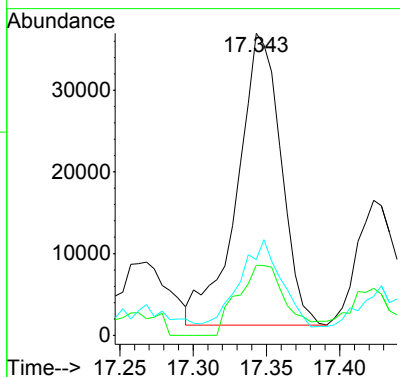
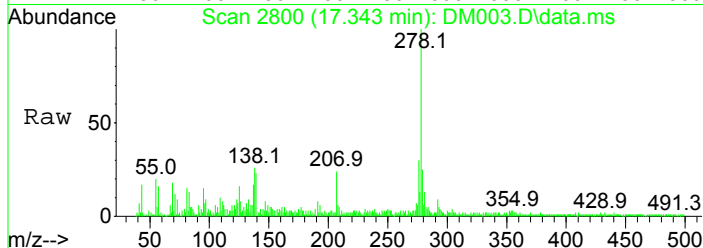
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 20.35 ppm  
 RT: 17.306 min Scan# 2793  
 Delta R.T. -0.016 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

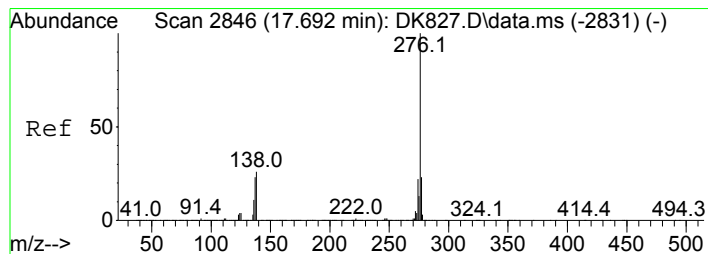
Tgt Ion	Resp	Lower	Upper
276	100		
138	27.2	6.0	46.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 5.33 ppm  
 RT: 17.343 min Scan# 2800  
 Delta R.T. -0.033 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

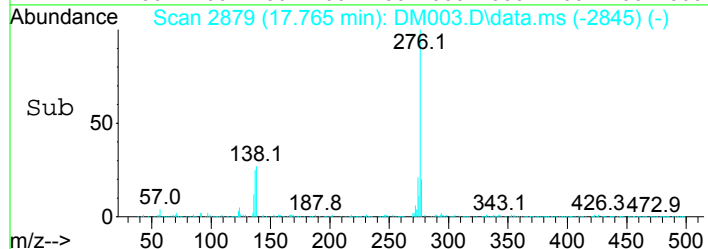
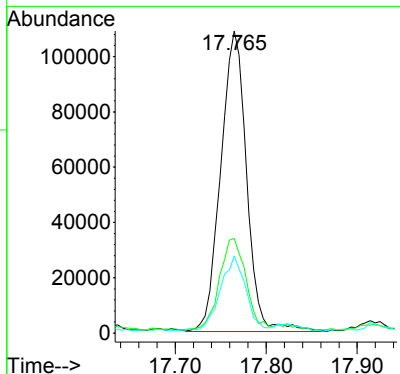
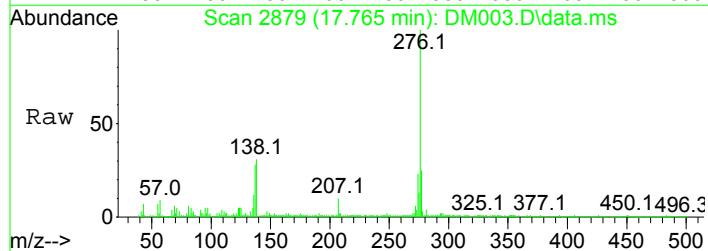
Tgt Ion	Resp	Lower	Upper
278	100		
139	22.3	2.6	42.6
279	22.3	4.6	44.6





#98  
 Benzo(g,h,i)perylene  
 Concen: 16.85 ppm  
 RT: 17.765 min Scan# 2879  
 Delta R.T. -0.018 min  
 Lab File: DM003.D  
 Acq: 22 Feb 2018 8:59 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	30.3	10.9	50.9
277	24.8	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM004.D  
 Acq On : 22 Feb 2018 9:26 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-013|5.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 26 14:57:20 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.791	152	212776	40.00	ppm	-0.01
24) d8-Naphthalene	5.956	136	794135	40.00	ppm	-0.01
42) d10-Acenaphthene	7.659	164	378539	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	663465	40.00	ppm	-0.02
82) d12-Chrysene	12.413	240	581191	40.00	ppm	-0.02
91) d12-Perylene	15.361	264	561408	40.00	ppm	-0.02
System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.728	112	97473	14.15	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	7.08%#		
8) SURR2,PHENOL-D6	4.471	99	139753	16.36	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	8.18%#		
25) SURR4,NITROBENZENE-D5	5.283	82	55358	9.48	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	9.48%#		
48) SURR5,2-FLUOROBIPHENYL	6.992	172	138434	10.35	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	10.35%#		
67) SURR3,2,4,6-TRIBROMOPH...	8.444	330	39787	22.04	ppm	-0.01
Spiked Amount 200.000	Range 10	- 109	Recovery =	11.02%		
85) SURR6,TERPHENYL-D14	10.821	244	166940	13.38	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	13.38%#		

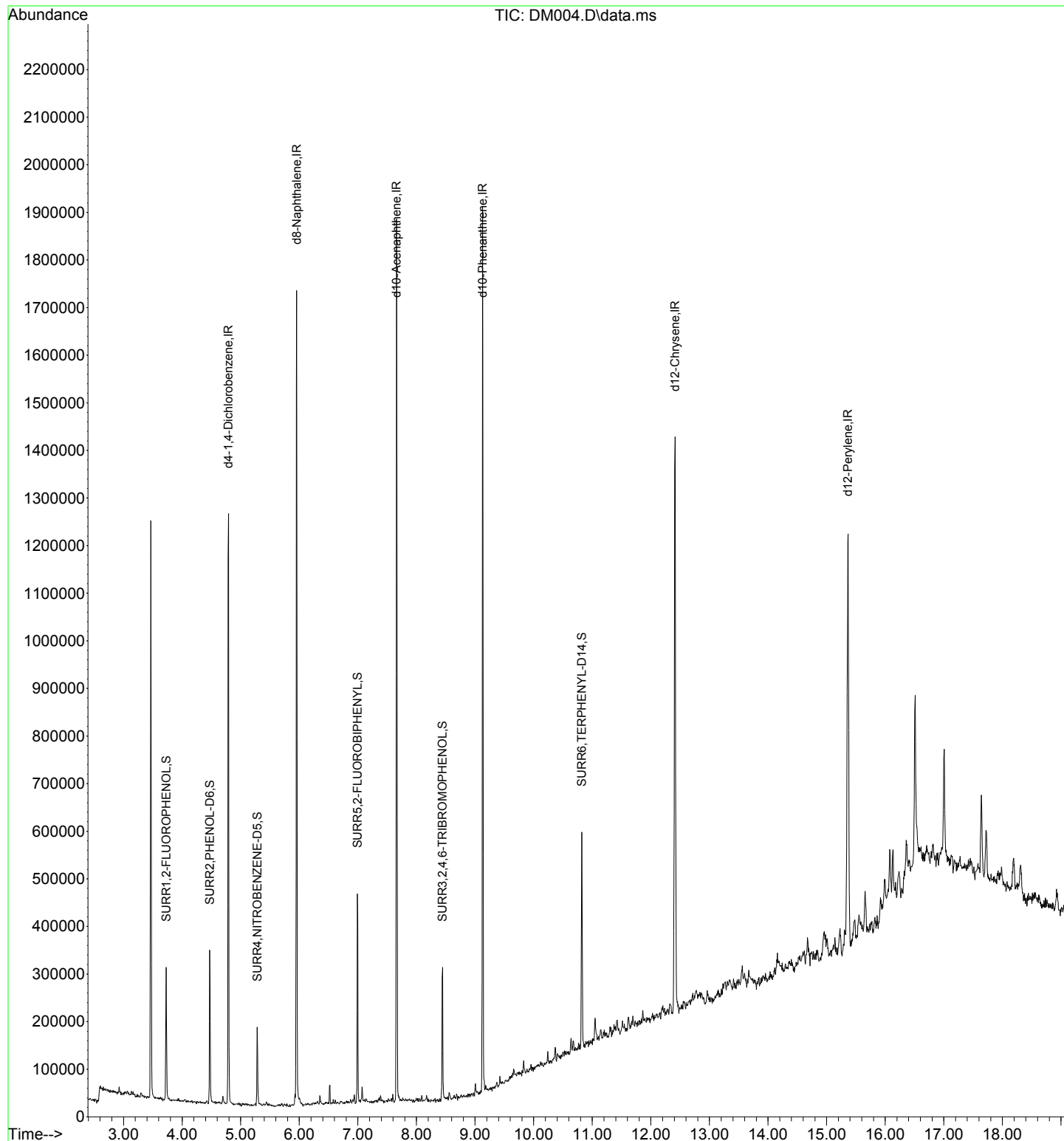
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM004.D  
Acq On : 22 Feb 2018 9:26 pm  
Operator : J.Misiurewicz  
Sample : R1801453-013|5.0  
Misc : 308725 8270D SOIL  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 26 14:57:20 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM005.D  
 Acq On : 22 Feb 2018 9:54 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-014  
 Misc : 308725 8270D SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 14:57:25 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

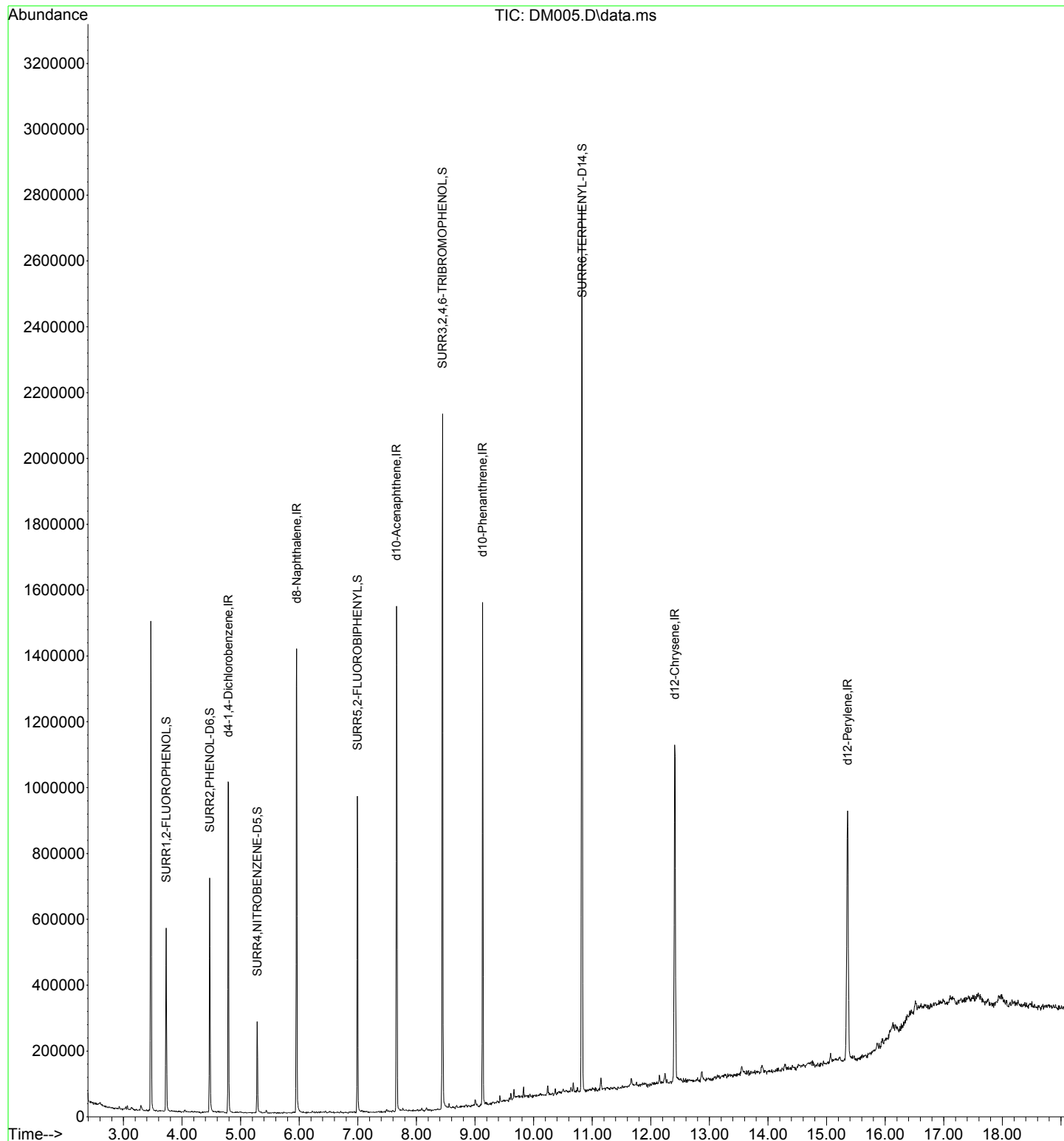
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.792	152	174803	40.00	ppm	-0.01
24) d8-Naphthalene	5.956	136	663148	40.00	ppm	-0.01
42) d10-Acenaphthene	7.660	164	321475	40.00	ppm	-0.02
69) d10-Phenanthrene	9.129	188	530563	40.00	ppm	-0.02
82) d12-Chrysene	12.408	240	498529	40.00	ppm	-0.03
91) d12-Perylene	15.357	264	483045	40.00	ppm	-0.03
System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.729	112	187926	33.20	ppm	0.00
Spiked Amount 200.000	Range 16 - 129		Recovery =	16.60%		
8) SURR2,PHENOL-D6	4.472	99	293612	41.83	ppm	0.00
Spiked Amount 200.000	Range 10 - 145		Recovery =	20.91%		
25) SURR4,NITROBENZENE-D5	5.283	82	91176	18.69	ppm	-0.01
Spiked Amount 100.000	Range 11 - 91		Recovery =	18.69%		
48) SURR5,2-FLUOROBIPHENYL	6.993	172	288973	25.44	ppm	-0.02
Spiked Amount 100.000	Range 14 - 102		Recovery =	25.44%		
67) SURR3,2,4,6-TRIBROMOPH...	8.445	330	274376	178.98	ppm	-0.01
Spiked Amount 200.000	Range 10 - 109		Recovery =	89.49%		
85) SURR6,TERPHENYL-D14	10.827	244	1044850	97.59	ppm	-0.02
Spiked Amount 100.000	Range 16 - 120		Recovery =	97.59%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM005.D  
Acq On : 22 Feb 2018 9:54 pm  
Operator : J.Misiurewicz  
Sample : R1801453-014  
Misc : 308725 8270D SOIL  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 26 14:57:25 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM006.D  
 Acq On : 22 Feb 2018 10:21 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-015  
 Misc : 308725 8270D SOIL  
 ALS Vial : 20 Sample Multiplier: 1

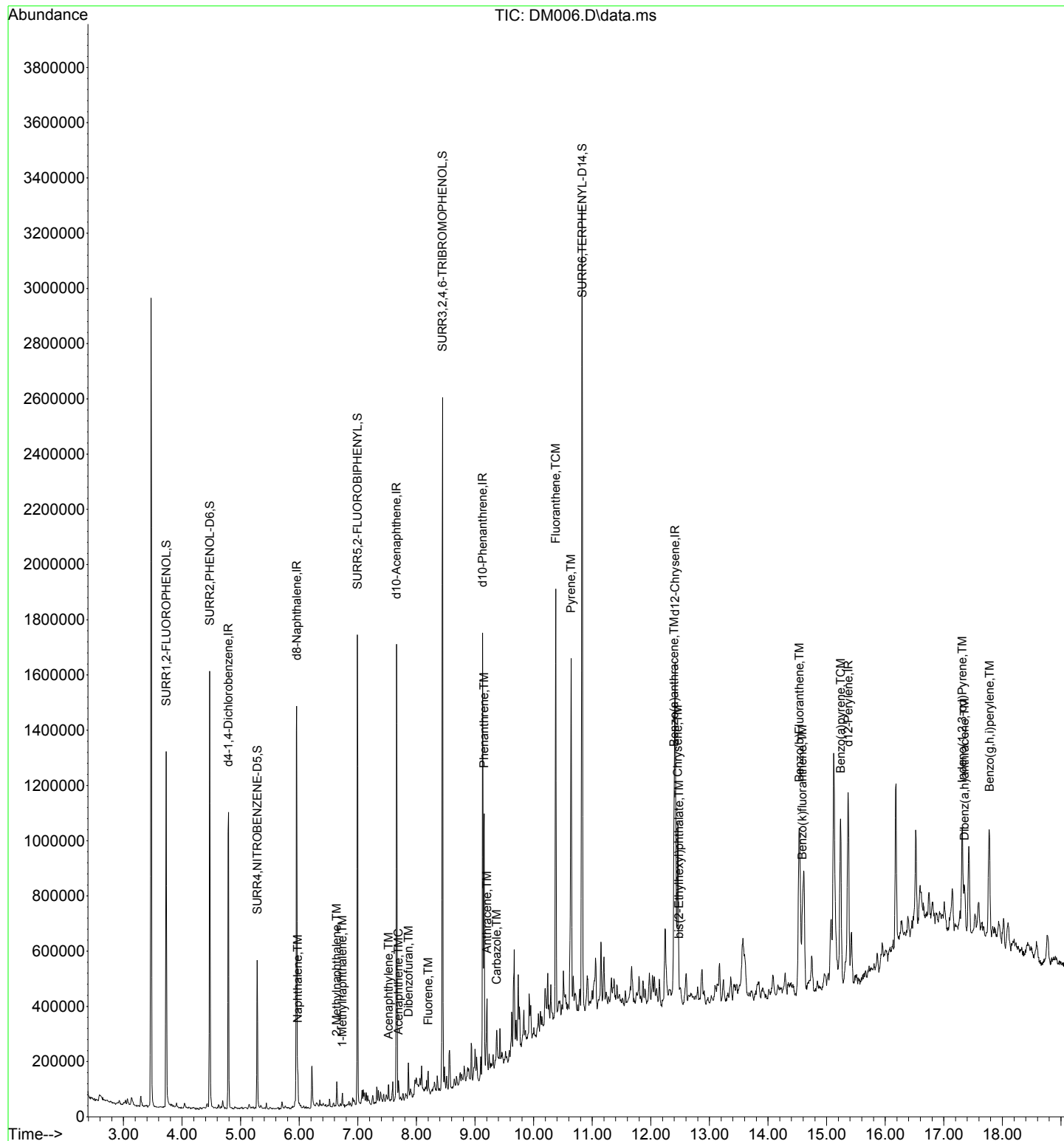
Quant Time: Feb 26 14:57:30 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

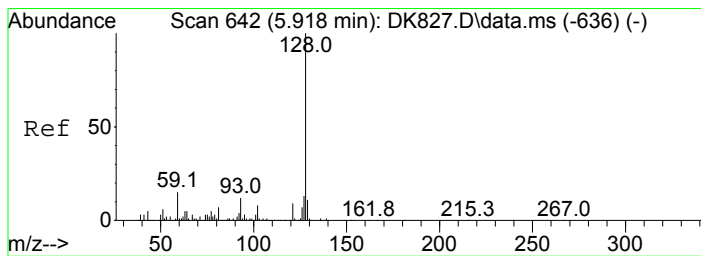
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.792	152	185413	40.00	ppm	-0.01
24) d8-Naphthalene	5.956	136	695043	40.00	ppm	-0.01
42) d10-Acenaphthene	7.660	164	335638	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	562456	40.00	ppm	-0.02
82) d12-Chrysene	12.413	240	511044	40.00	ppm	-0.02
91) d12-Perylene	15.367	264	468865	40.00	ppm	-0.02
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.729	112	421016	70.11	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	35.06%		
8) SURR2,PHENOL-D6	4.471	99	629059	84.50	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	42.25%		
25) SURR4,NITROBENZENE-D5	5.283	82	172858	33.81	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	33.81%		
48) SURR5,2-FLUOROBIPHENYL	6.992	172	510248	43.02	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	43.02%		
67) SURR3,2,4,6-TRIBROMOPH...	8.445	330	313099	195.62	ppm	-0.01
Spiked Amount 200.000	Range 10	- 109	Recovery =	97.81%		
85) SURR6,TERPHENYL-D14	10.827	244	1091510	99.46	ppm	-0.02
Spiked Amount 100.000	Range 16	- 120	Recovery =	99.46%		
<b>Target Compounds</b>						
						Qvalue
34) Naphthalene	5.972	128	50062	2.898	ppm	96
40) 2-Methylnaphthalene	6.640	142	22687	2.040	ppm	95
41) 1-Methylnaphthalene	6.736	142	13344	1.285	ppm	98
52) Acenaphthylene	7.526	152	24527	1.505	ppm	98
55) Acenaphthene	7.692	153	13989	1.255	ppm	94
58) Dibenzofuran	7.863	168	42697	3.100	ppm	97
63) Fluorene	8.199	166	17832	1.567	ppm	94
77) Phenanthrene	9.155	178	365114	24.734	ppm	97
78) Anthracene	9.203	178	97718	6.635	ppm	95
79) Carbazole	9.369	167	34372	2.258	ppm	99
81) Fluoranthene	10.378	202	606032	40.163	ppm	99
84) Pyrene	10.640	202	574407	37.989	ppm	99
88) Benzo(a)anthracene	12.397	228	331297	23.145	ppm	97
89) Chrysene	12.461	228	342514	25.589	ppm	96
90) bis(2-Ethylhexyl)phtha...	12.483	149	16776	1.526	ppm	81
93) Benzo(b)Fluoranthene	14.534	252	528048	39.662	ppm	96
94) Benzo(k)fluoranthene	14.587	252	172104	13.674	ppm	99
95) Benzo(a)pyrene	15.239	252	372442	32.530	ppm	97
96) Indeno(1,2,3-cd)Pyrene	17.316	276	266868	24.867	ppm	99
97) Dibenz(a,h)anthracene	17.354	278	60736	5.177	ppm	91
98) Benzo(g,h,i)perylene	17.781	276	257743	24.012	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM006.D  
Acq On : 22 Feb 2018 10:21 pm  
Operator : J.Misiurewicz  
Sample : R1801453-015  
Misc : 308725 8270D SOIL  
ALS Vial : 20 Sample Multiplier: 1

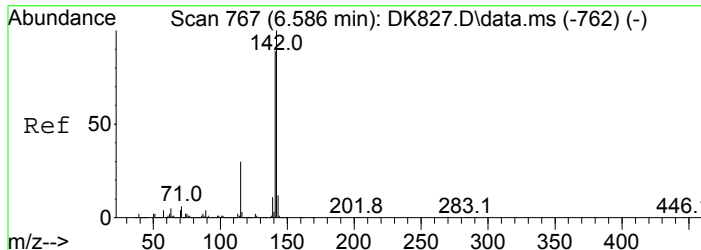
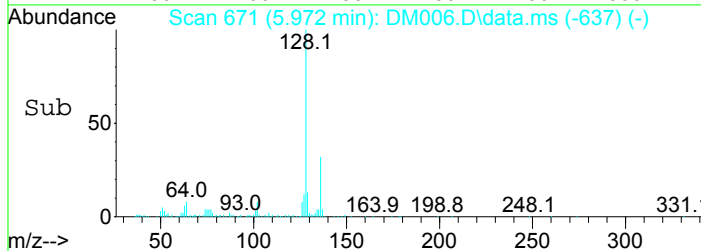
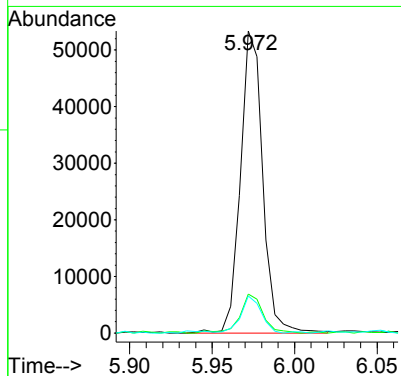
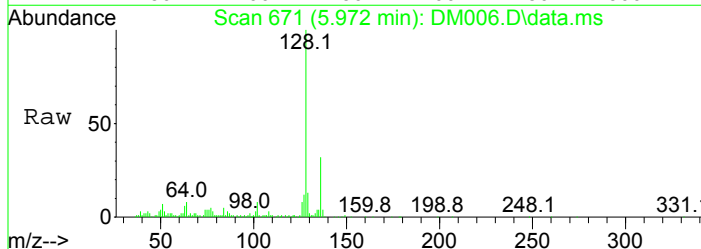
Quant Time: Feb 26 14:57:30 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





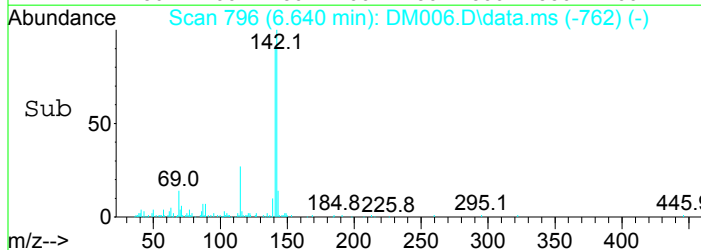
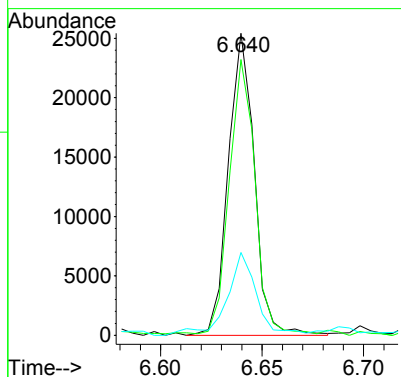
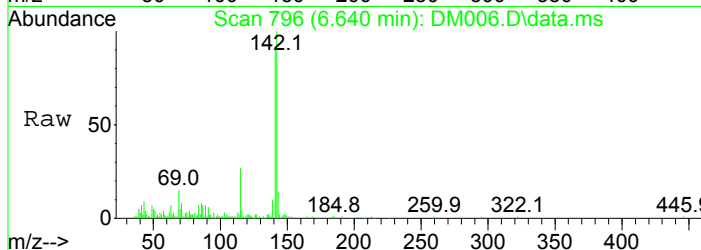
#34  
 Naphthalene  
 Concen: 2.90 ppm  
 RT: 5.972 min Scan# 671  
 Delta R.T. -0.018 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

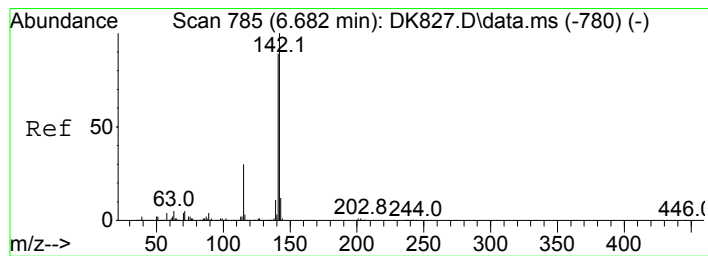
Tgt Ion	Resp	Lower	Upper
128	50062		
129	12.9	0.0	31.3
127	11.6	0.0	33.1



#40  
 2-Methylnaphthalene  
 Concen: 2.04 ppm  
 RT: 6.640 min Scan# 796  
 Delta R.T. -0.016 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

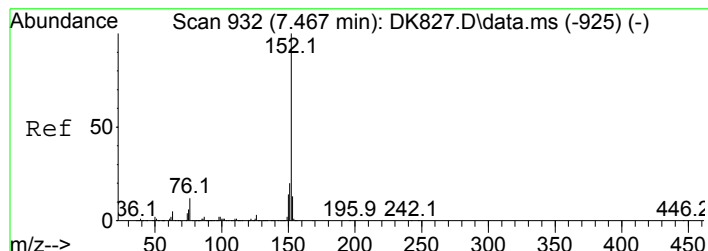
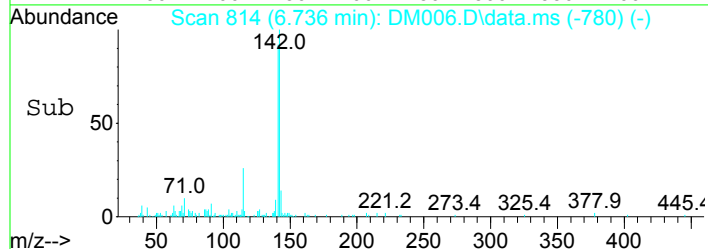
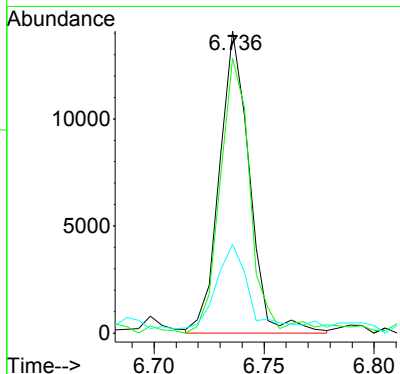
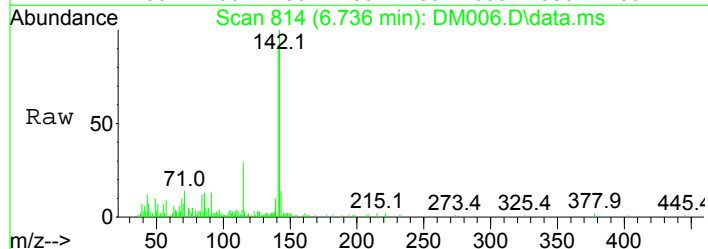
Tgt Ion	Resp	Lower	Upper
142	22687		
141	90.3	66.0	106.0
115	25.7	8.8	48.8





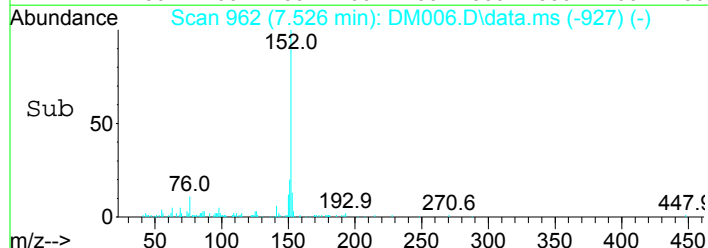
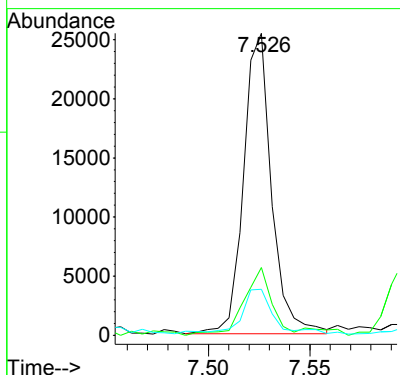
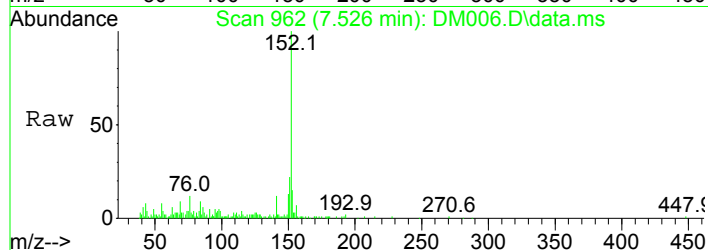
#41  
 1-Methylnaphthalene  
 Concen: 1.28 ppm  
 RT: 6.736 min Scan# 814  
 Delta R.T. -0.016 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

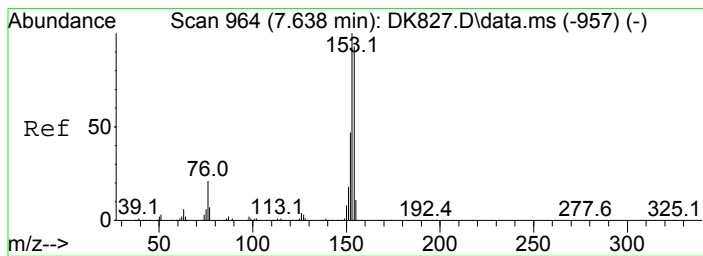
Tgt Ion	Resp	Lower	Upper
142	100		
141	90.5	61.6	121.6
115	27.8	1.0	61.0



#52  
 Acenaphthylene  
 Concen: 1.50 ppm  
 RT: 7.526 min Scan# 962  
 Delta R.T. -0.013 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

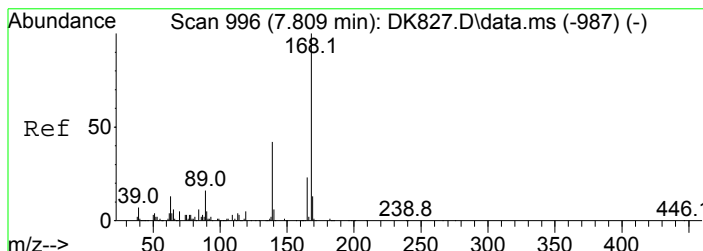
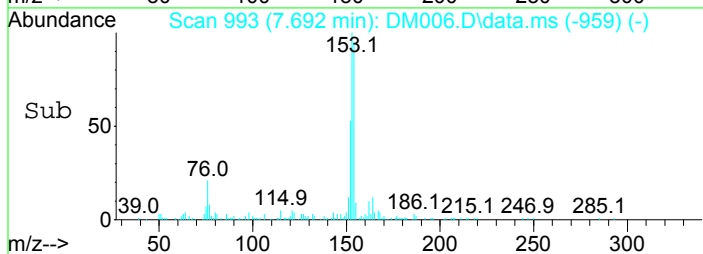
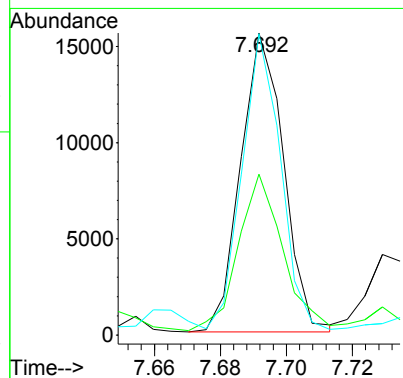
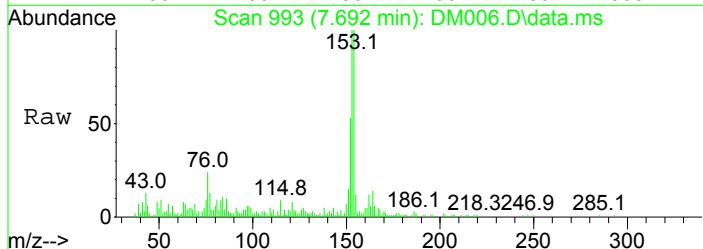
Tgt Ion	Resp	Lower	Upper
152	100		
151	21.8	0.6	40.6
153	14.4	0.0	33.9





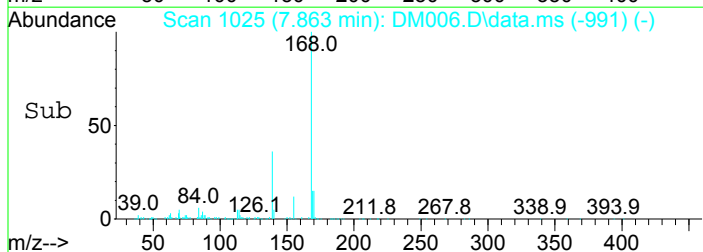
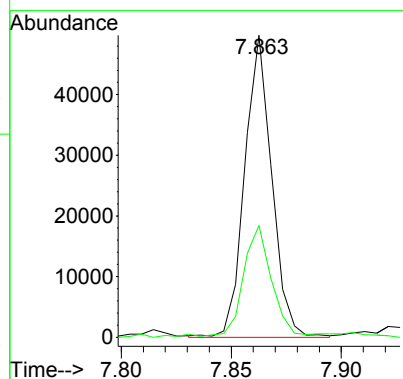
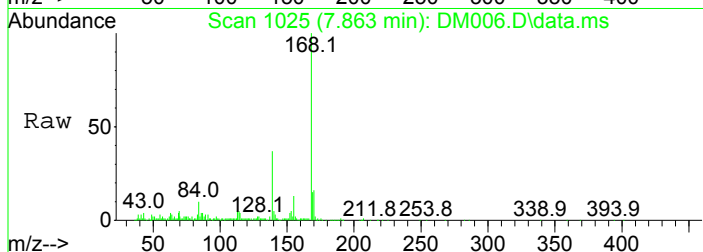
#55  
 Acenaphthene  
 Concen: 1.25 ppm  
 RT: 7.692 min Scan# 993  
 Delta R.T. -0.018 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

Tgt Ion	Resp	Lower	Upper
153	100		
152	52.2	28.0	68.0
154	98.7	72.5	112.5

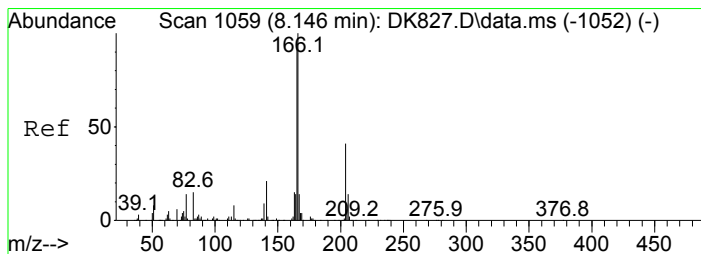


#58  
 Dibenzofuran  
 Concen: 3.10 ppm  
 RT: 7.863 min Scan# 1025  
 Delta R.T. -0.016 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

Tgt Ion	Resp	Lower	Upper
168	100		
139	36.2	14.2	54.2

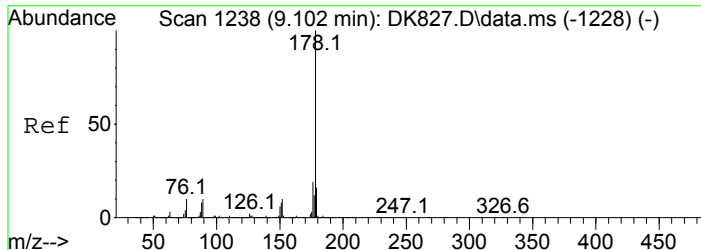
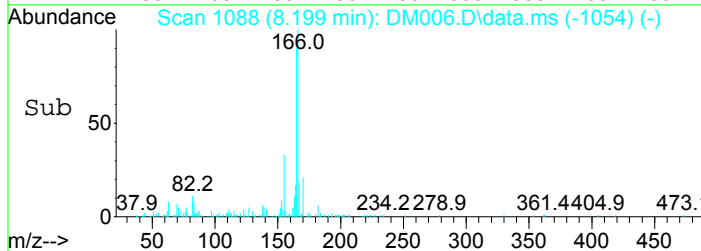
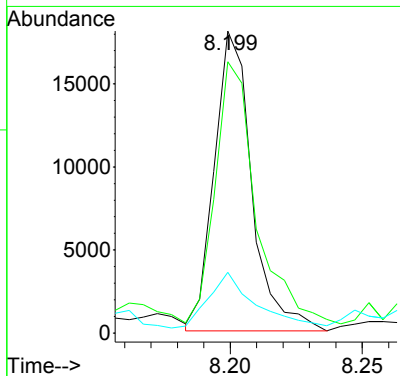
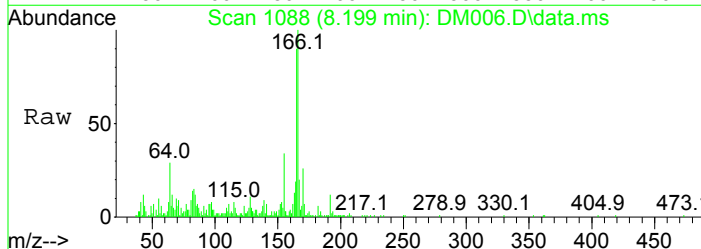






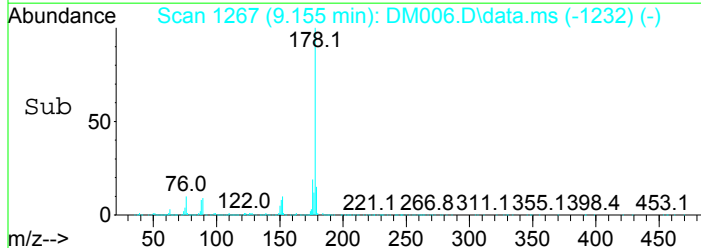
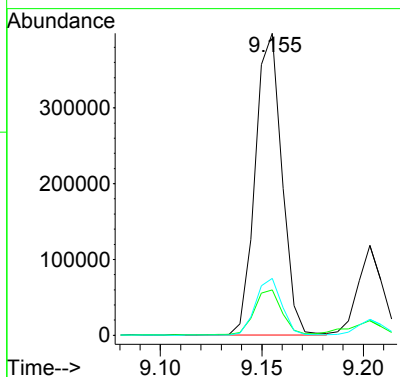
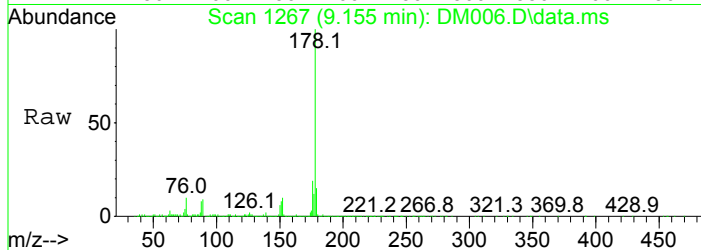
#63  
 Fluorene  
 Concen: 1.57 ppm  
 RT: 8.199 min Scan# 1088  
 Delta R.T. -0.018 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

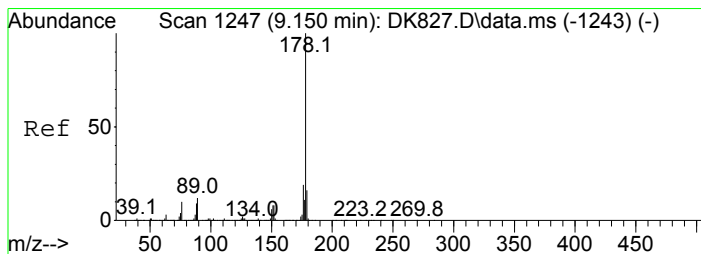
Tgt Ion	Resp	Lower	Upper
166	17832		
165	87.5	62.8	122.8
167	18.1	0.0	43.9



#77  
 Phenanthrene  
 Concen: 24.73 ppm  
 RT: 9.155 min Scan# 1267  
 Delta R.T. -0.014 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

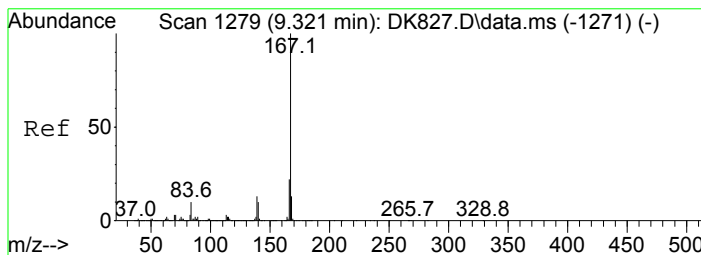
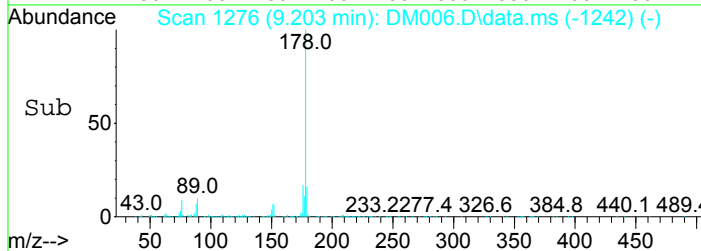
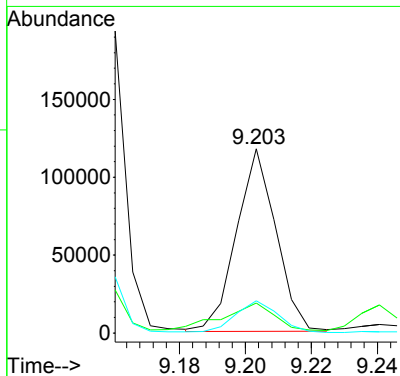
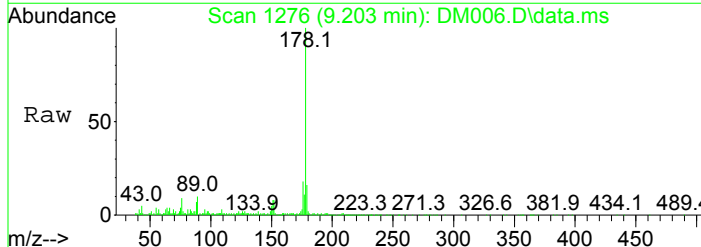
Tgt Ion	Resp	Lower	Upper
178	365114		
179	14.4	0.0	36.3
176	18.8	0.0	39.7





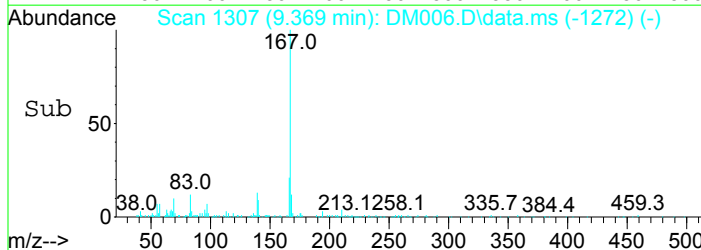
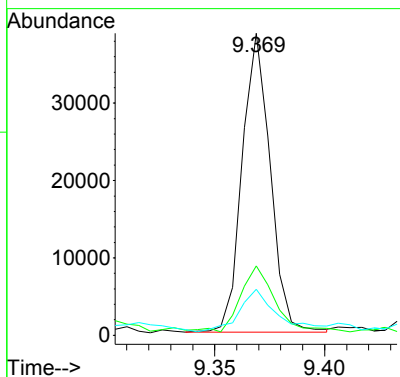
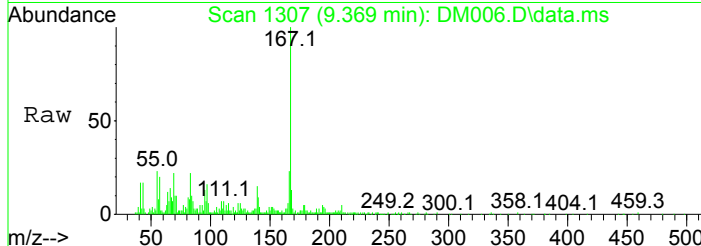
#78  
 Anthracene  
 Concen: 6.64 ppm  
 RT: 9.203 min Scan# 1276  
 Delta R.T. -0.016 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

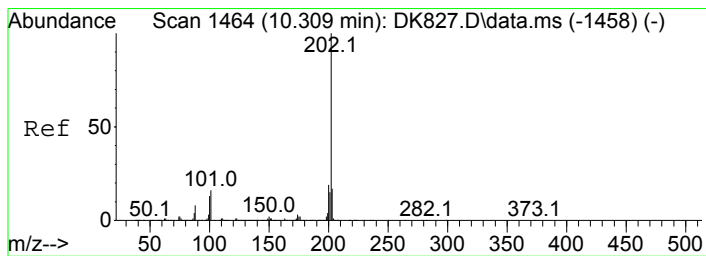
Tgt Ion	Resp	Lower	Upper
178	97718		
179	14.1	0.0	36.2
176	17.4	0.0	39.4



#79  
 Carbazole  
 Concen: 2.26 ppm  
 RT: 9.369 min Scan# 1307  
 Delta R.T. -0.011 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

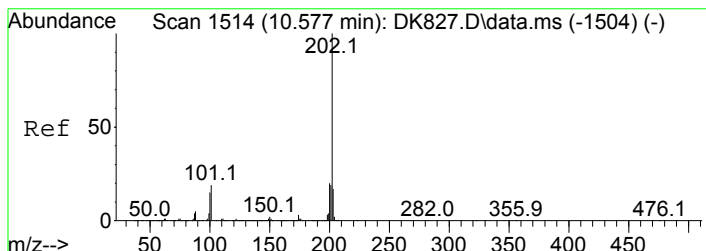
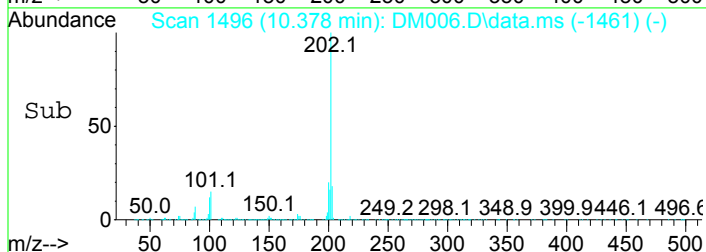
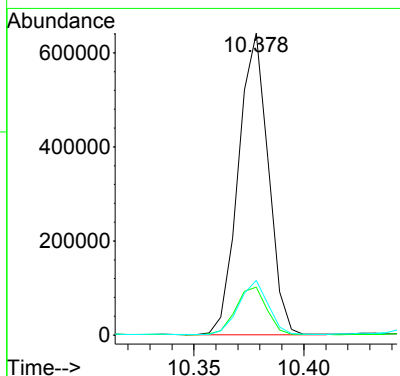
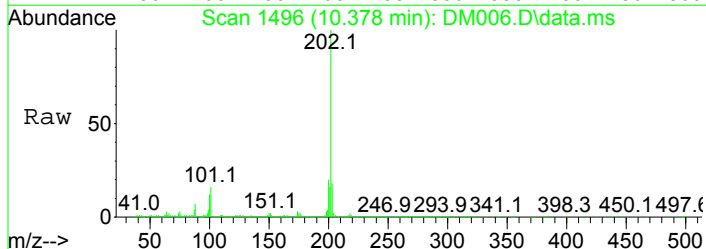
Tgt Ion	Resp	Lower	Upper
167	34372		
166	21.4	1.7	41.7
139	12.9	0.0	32.8





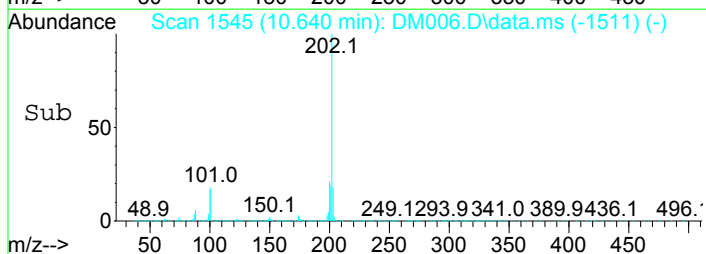
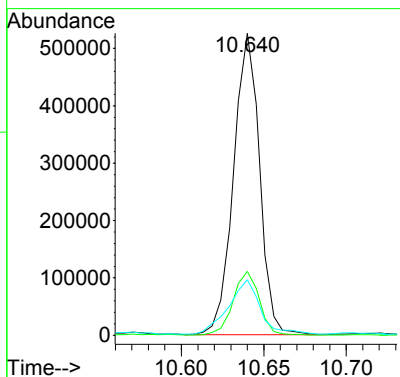
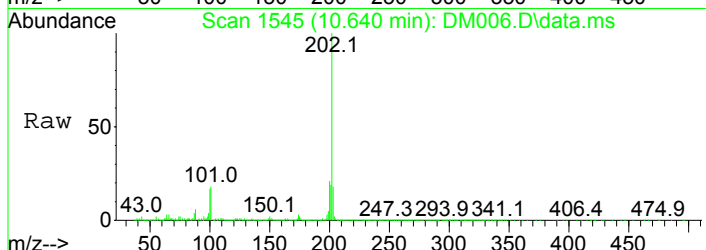
#81  
 Fluoranthene  
 Concen: 40.16 ppm  
 RT: 10.378 min Scan# 1496  
 Delta R.T. -0.011 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

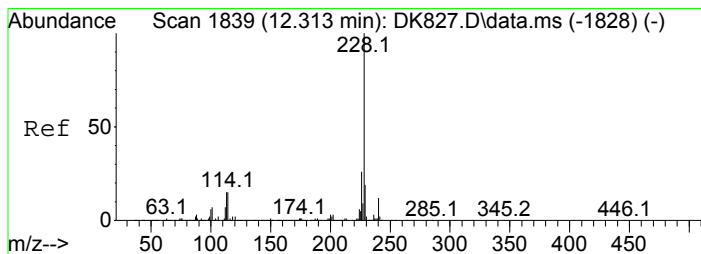
Tgt Ion	Resp	Lower	Upper
202	606032		
101	15.7	0.0	35.1
203	18.0	0.0	37.7



#84  
 Pyrene  
 Concen: 37.99 ppm  
 RT: 10.640 min Scan# 1545  
 Delta R.T. -0.016 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

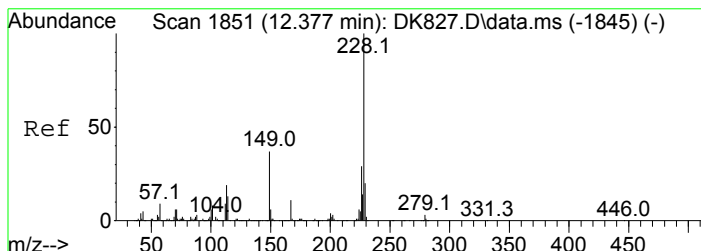
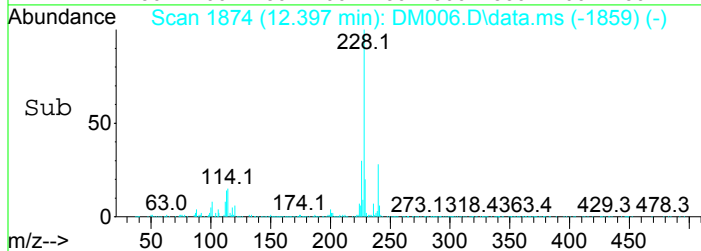
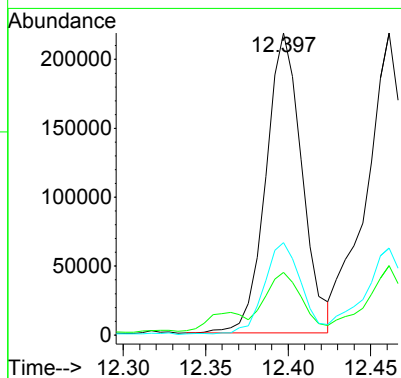
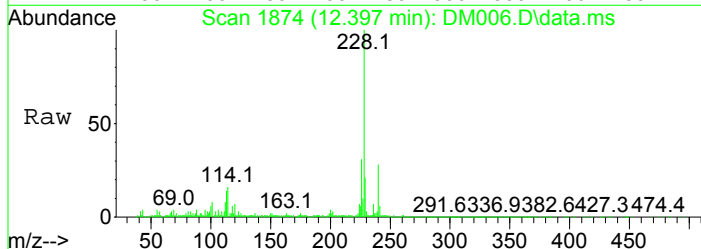
Tgt Ion	Resp	Lower	Upper
202	574407		
200	21.2	1.7	41.7
203	18.0	0.0	37.6





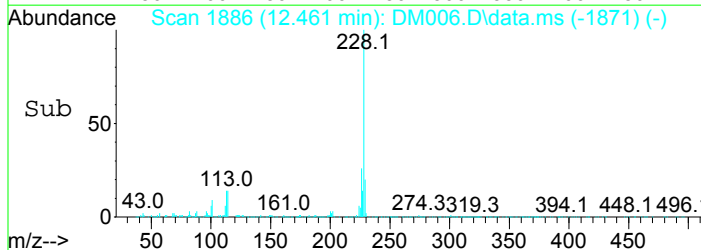
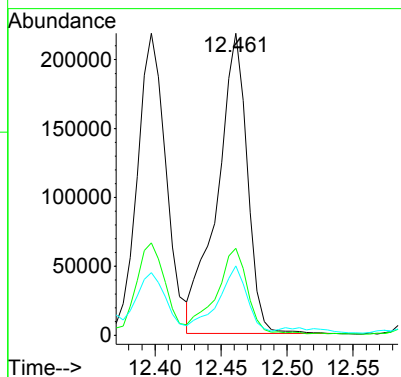
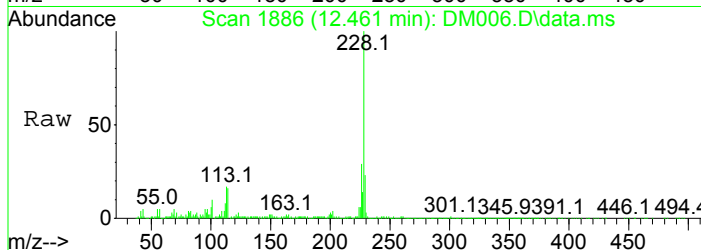
#88  
 Benzo(a)anthracene  
 Concen: 23.14 ppm  
 RT: 12.397 min Scan# 1874  
 Delta R.T. -0.020 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

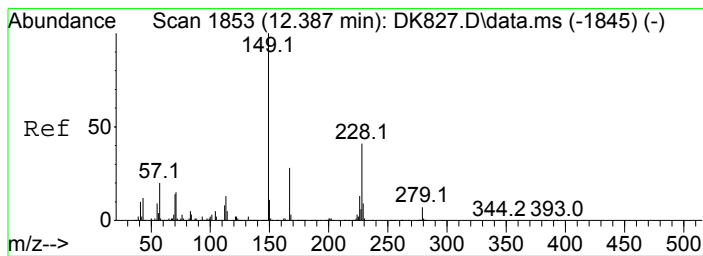
Tgt Ion	Resp	Lower	Upper
228	331297		
229	19.5	0.0	39.4
226	30.4	7.9	47.9



#89  
 Chrysene  
 Concen: 25.59 ppm  
 RT: 12.461 min Scan# 1886  
 Delta R.T. -0.022 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

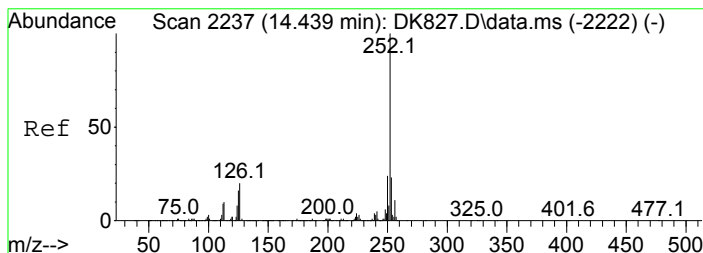
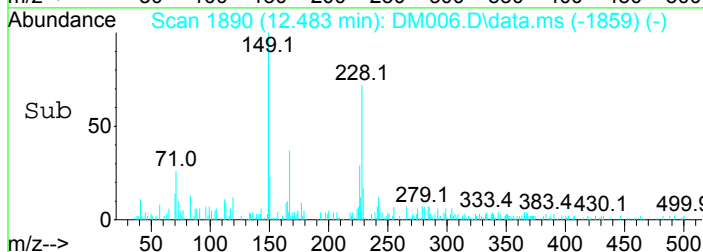
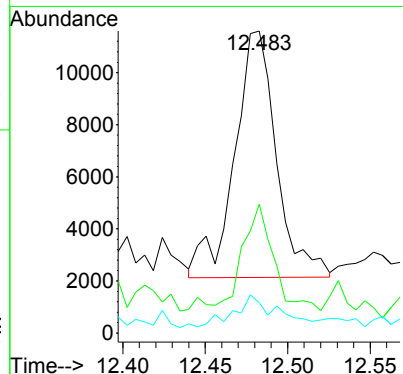
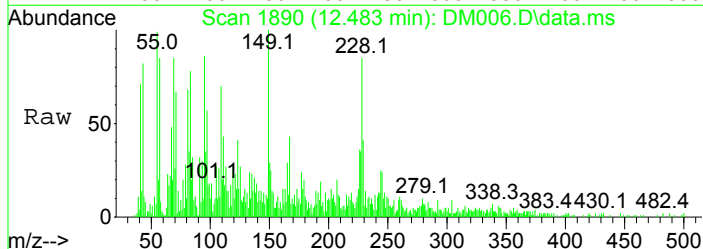
Tgt Ion	Resp	Lower	Upper
228	342514		
226	28.5	9.9	49.9
229	21.8	0.0	39.5





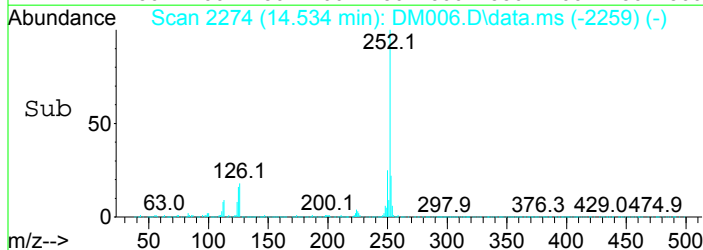
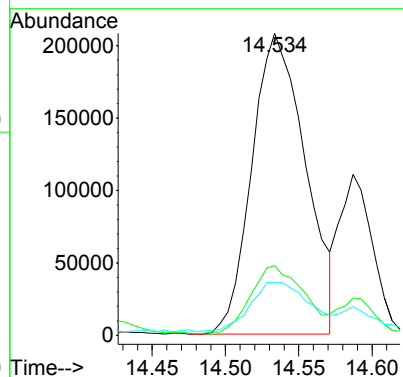
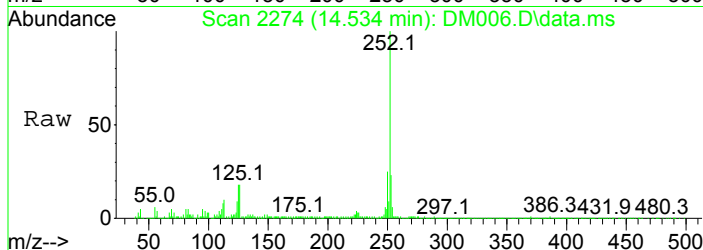
#90  
 bis(2-Ethylhexyl)phthalate  
 Concen: 1.53 ppm  
 RT: 12.483 min Scan# 1890  
 Delta R.T. -0.035 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

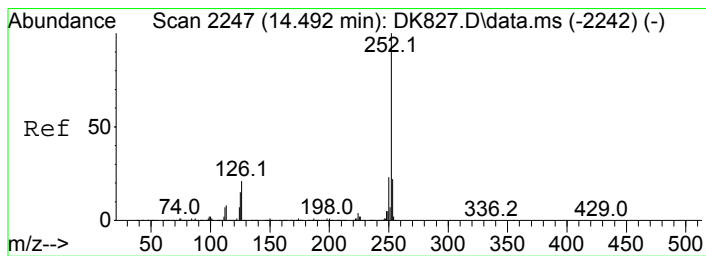
Tgt Ion	Resp	Lower	Upper
149	16776		
167	41.2	9.1	49.1
279	7.7	0.0	26.9



#93  
 Benzo(b)Fluoranthene  
 Concen: 39.66 ppm  
 RT: 14.534 min Scan# 2274  
 Delta R.T. -0.021 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

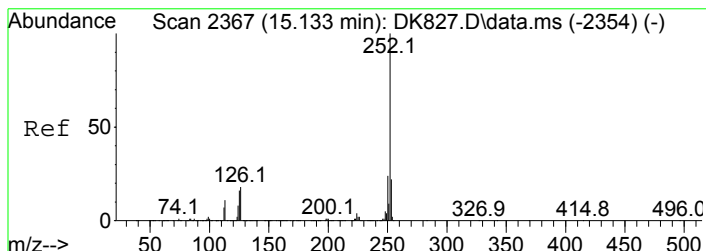
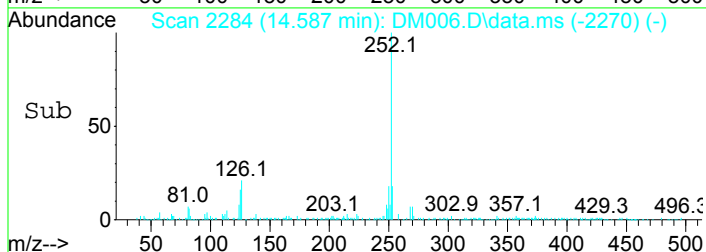
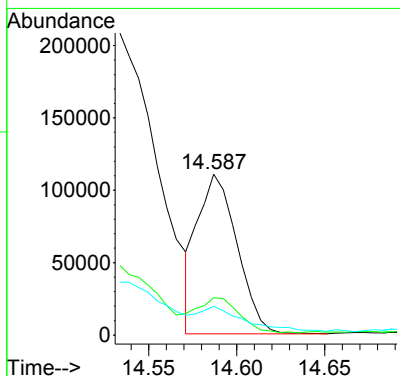
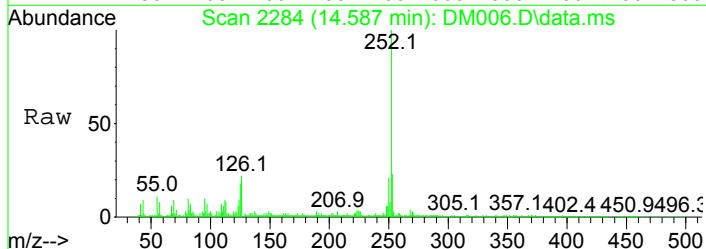
Tgt Ion	Resp	Lower	Upper
252	528048		
253	22.3	4.1	44.1
125	15.6	0.0	37.3





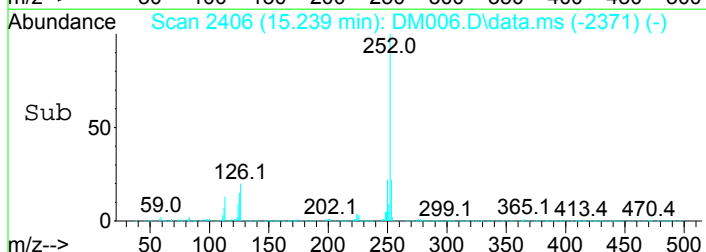
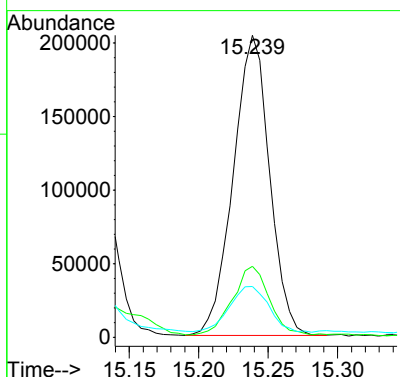
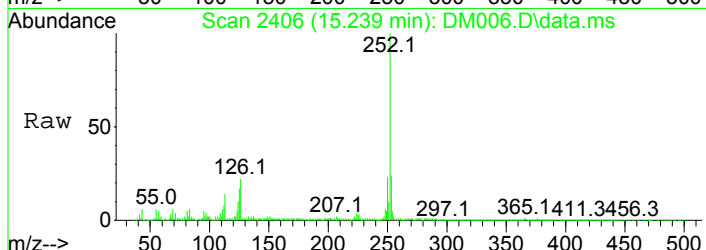
#94  
 Benzo(k)fluoranthene  
 Concen: 13.67 ppm  
 RT: 14.587 min Scan# 2284  
 Delta R.T. -0.025 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

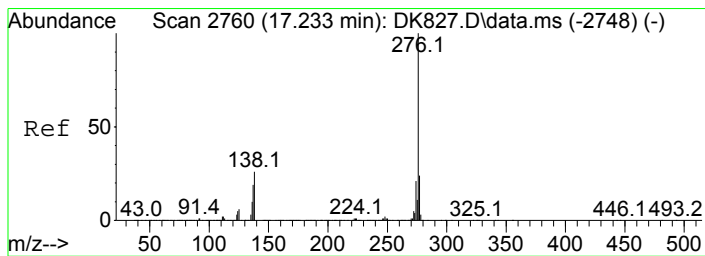
Tgt Ion	Resp	Lower	Upper
252	172104		
253	21.4	1.1	41.1
125	14.2	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 32.53 ppm  
 RT: 15.239 min Scan# 2406  
 Delta R.T. -0.015 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

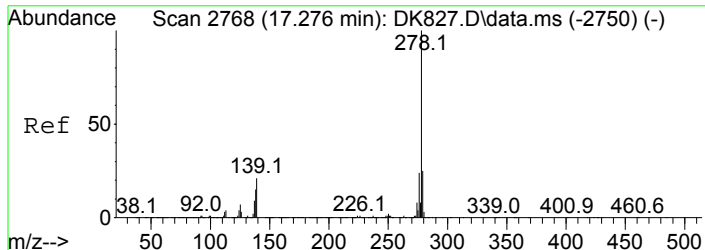
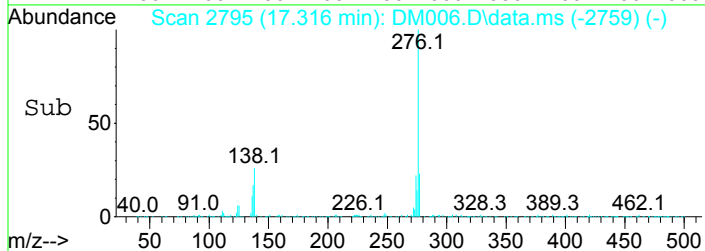
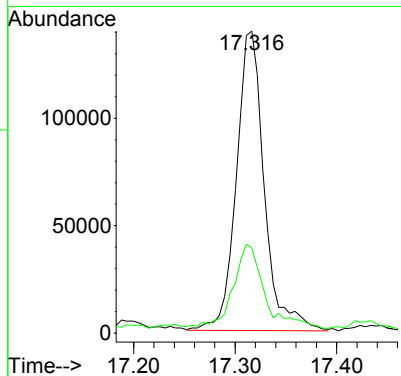
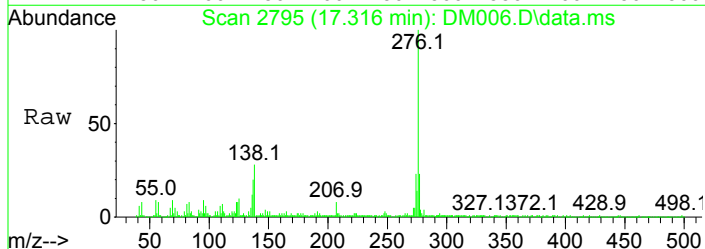
Tgt Ion	Resp	Lower	Upper
252	372442		
253	22.8	1.3	41.3
125	14.8	0.0	36.3





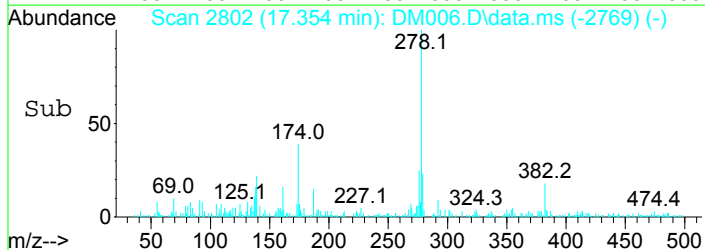
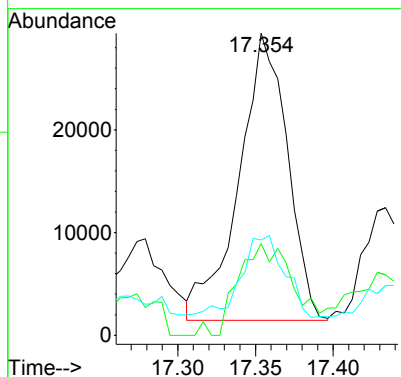
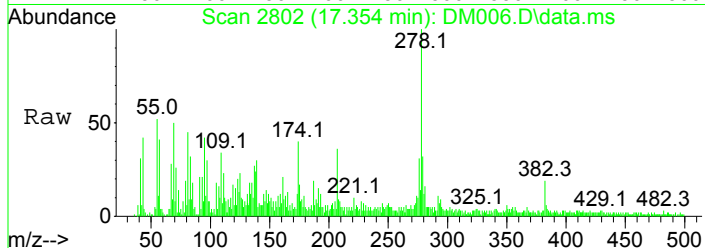
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 24.87 ppm  
 RT: 17.316 min Scan# 2795  
 Delta R.T. -0.006 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

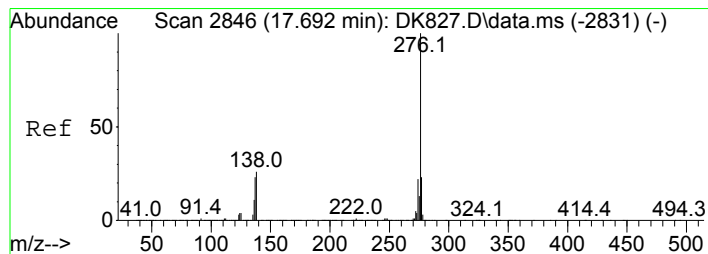
Tgt Ion	Resp	Lower	Upper
276	100		
138	26.6	6.0	46.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 5.18 ppm  
 RT: 17.354 min Scan# 2802  
 Delta R.T. -0.022 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

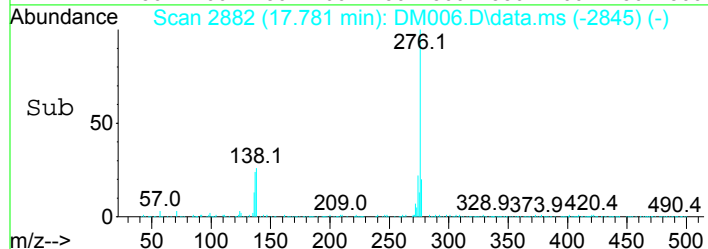
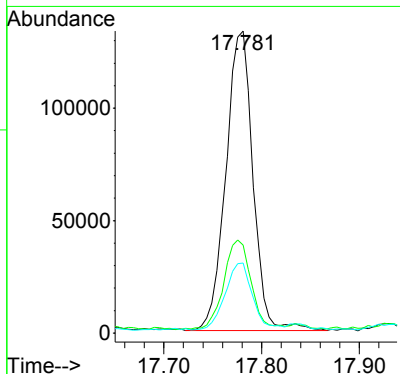
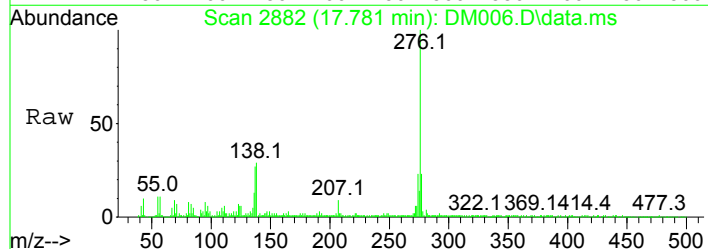
Tgt Ion	Resp	Lower	Upper
278	100		
139	28.3	2.6	42.6
279	27.4	4.6	44.6





#98  
 Benzo(g,h,i)perylene  
 Concen: 24.01 ppm  
 RT: 17.781 min Scan# 2882  
 Delta R.T. -0.002 min  
 Lab File: DM006.D  
 Acq: 22 Feb 2018 10:21 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	28.0	10.9	50.9
277	21.9	4.0	44.0





Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM007.D  
 Acq On : 22 Feb 2018 10:49 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-016  
 Misc : 308725 8270D SOIL  
 ALS Vial : 21 Sample Multiplier: 1

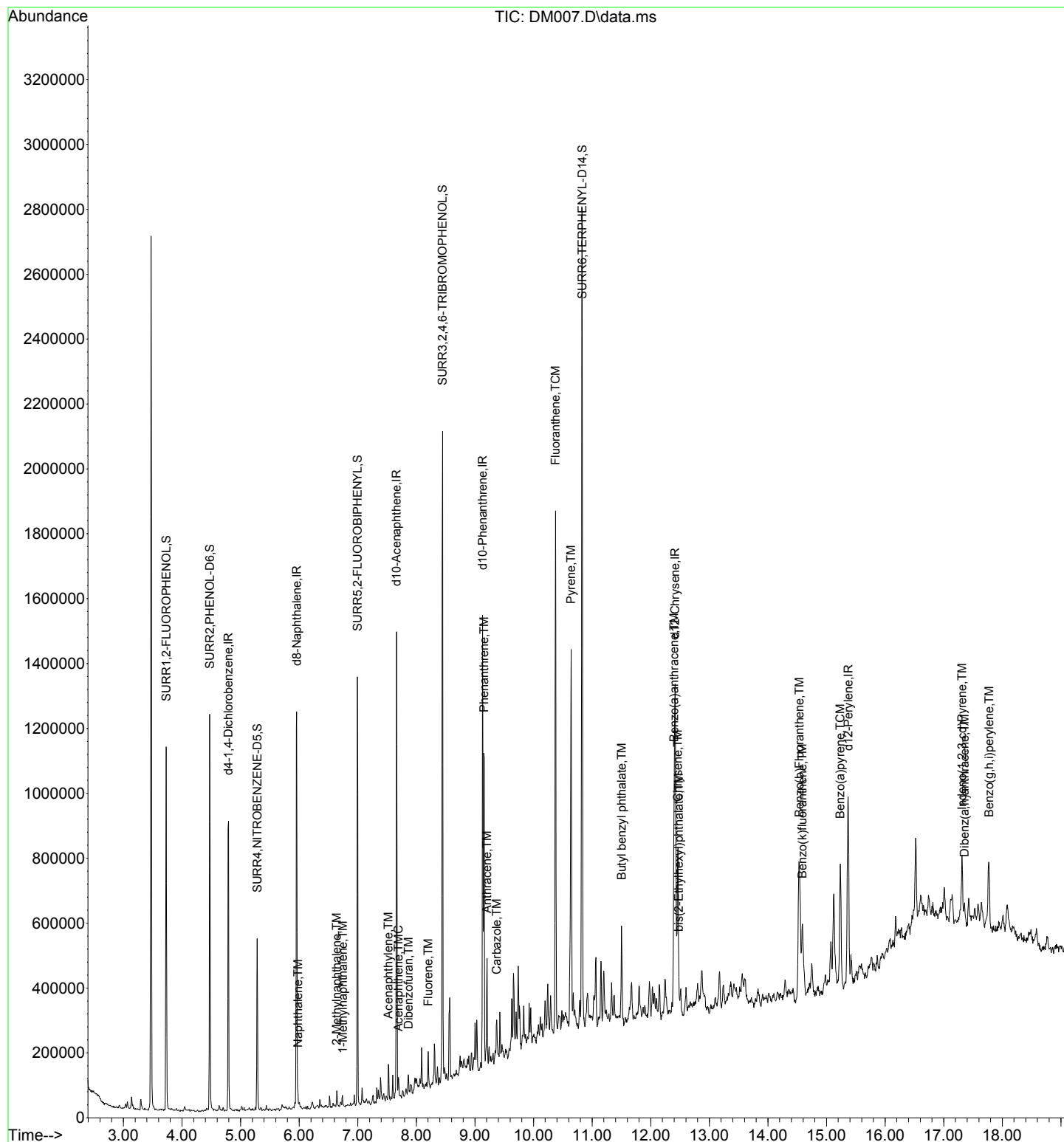
Quant Time: Feb 26 14:57:35 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

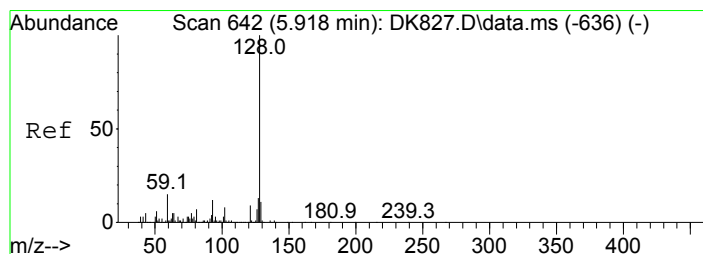
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.793	152	158177	40.00	ppm	-0.01
24) d8-Naphthalene	5.957	136	597083	40.00	ppm	-0.01
42) d10-Acenaphthene	7.661	164	284968	40.00	ppm	-0.02
69) d10-Phenanthrene	9.130	188	477768	40.00	ppm	-0.02
82) d12-Chrysene	12.415	240	446815	40.00	ppm	-0.02
91) d12-Perylene	15.368	264	403416	40.00	ppm	-0.01
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.730	112	371150	72.45	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	36.23%		
8) SURR2,PHENOL-D6	4.472	99	484167	76.24	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	38.12%		
25) SURR4,NITROBENZENE-D5	5.284	82	172714	39.33	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	39.33%		
48) SURR5,2-FLUOROBIPHENYL	6.993	172	382864	38.02	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	38.02%		
67) SURR3,2,4,6-TRIBROMOPH...	8.446	330	252222	185.60	ppm	-0.01
Spiked Amount 200.000	Range 10	- 109	Recovery =	92.80%		
85) SURR6,TERPHENYL-D14	10.828	244	921734	96.06	ppm	-0.01
Spiked Amount 100.000	Range 16	- 120	Recovery =	96.06%		
<b>Target Compounds</b>						
						Qvalue
34) Naphthalene	5.979	128	16486	1.111	ppm	90
40) 2-Methylnaphthalene	6.641	142	12331	1.291	ppm	91
41) 1-Methylnaphthalene	6.742	142	9982	1.119	ppm	80
52) Acenaphthylene	7.522	152	47143	3.406	ppm	98
55) Acenaphthene	7.693	153	15576	1.646	ppm	98
58) Dibenzofuran	7.864	168	16829	1.439	ppm	93
63) Fluorene	8.200	166	27177	2.814	ppm	97
77) Phenanthrene	9.156	178	383099	30.553	ppm	99
78) Anthracene	9.205	178	121778	9.735	ppm	99
79) Carbazole	9.370	167	48018	3.714	ppm	96
81) Fluoranthene	10.374	202	630193	49.168	ppm	98
84) Pyrene	10.641	202	540213	40.863	ppm	98
86) Butyl benzyl phthalate	11.501	149	87385	12.248	ppm	95
88) Benzo(a)anthracene	12.399	228	310436	24.805	ppm	95
89) Chrysene	12.463	228	299083	25.556	ppm	96
90) bis(2-Ethylhexyl)phtha...	12.479	149	21457	2.233	ppm	94
93) Benzo(b)Fluoranthene	14.535	252	372183	32.490	ppm	98
94) Benzo(k)fluoranthene	14.588	252	141107	13.030	ppm	94
95) Benzo(a)pyrene	15.235	252	236351	23.992	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.312	276	137541	14.896	ppm	98
97) Dibenz(a,h)anthracene	17.355	278	33596	3.328	ppm	87
98) Benzo(g,h,i)perylene	17.772	276	115297	12.484	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM007.D  
Acq On : 22 Feb 2018 10:49 pm  
Operator : J.Misiurewicz  
Sample : R1801453-016  
Misc : 308725 8270D SOIL  
ALS Vial : 21 Sample Multiplier: 1

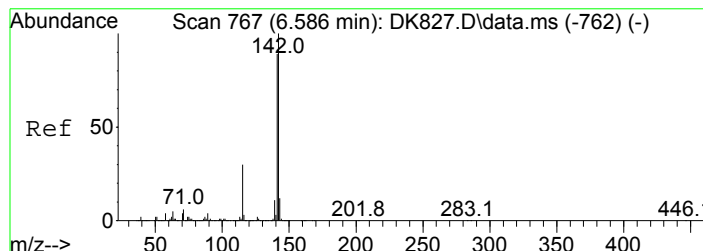
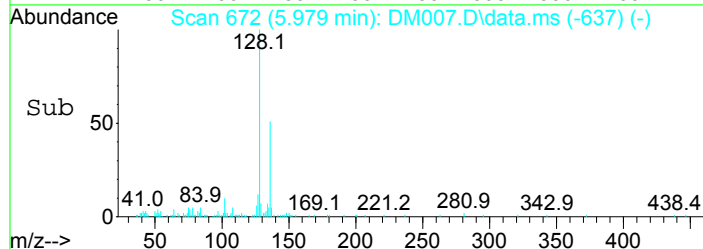
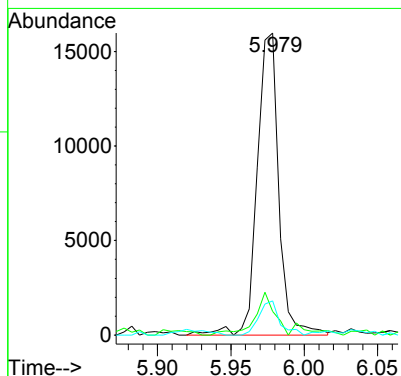
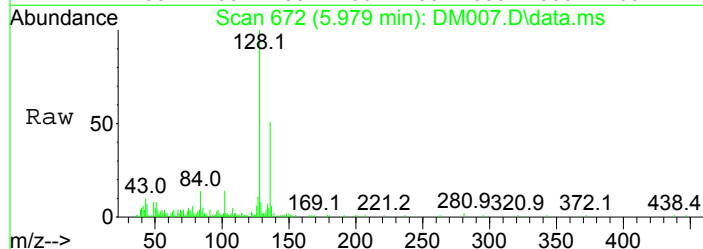
Quant Time: Feb 26 14:57:35 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





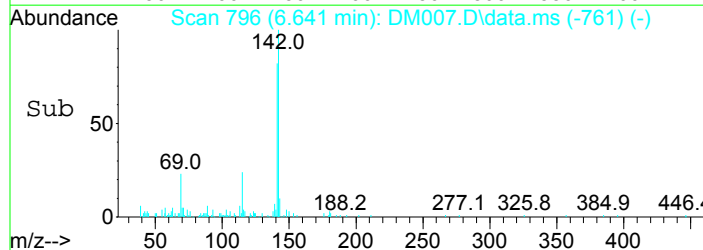
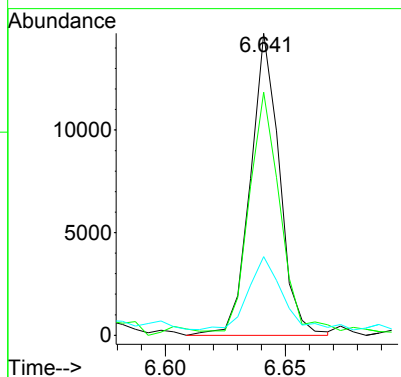
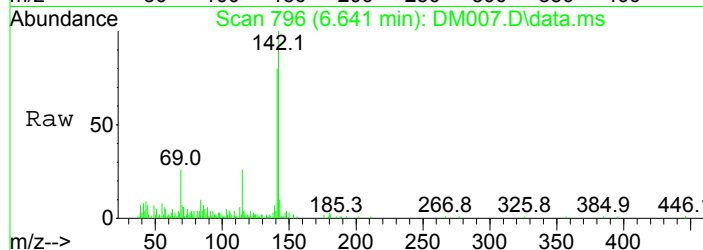
#34  
 Naphthalene  
 Concen: 1.11 ppm  
 RT: 5.979 min Scan# 672  
 Delta R.T. -0.011 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

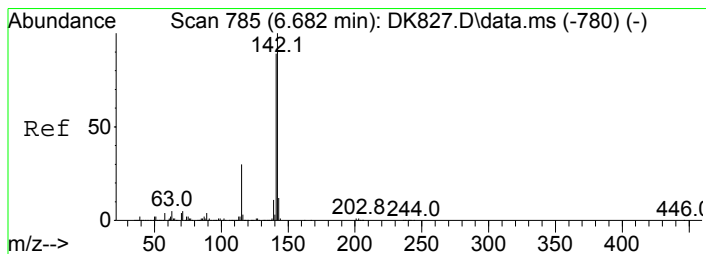
Tgt Ion	Resp	Lower	Upper
128	16486		
129	6.6	0.0	31.3
127	9.8	0.0	33.1



#40  
 2-Methylnaphthalene  
 Concen: 1.29 ppm  
 RT: 6.641 min Scan# 796  
 Delta R.T. -0.015 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

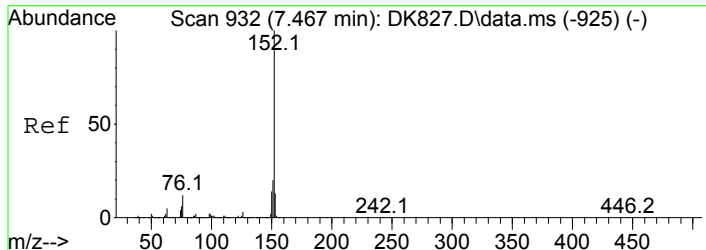
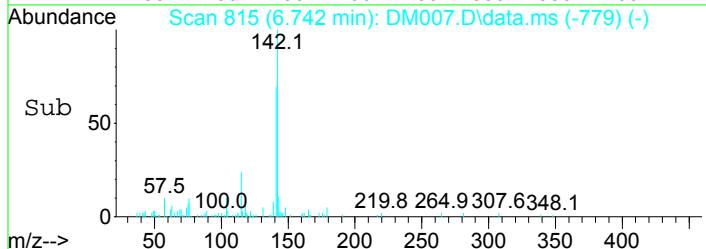
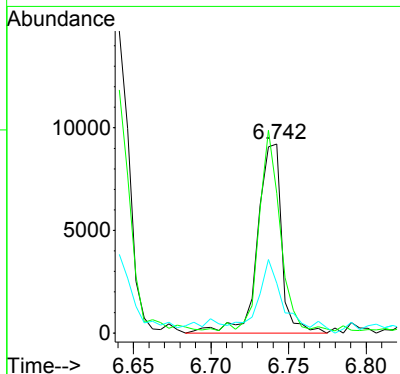
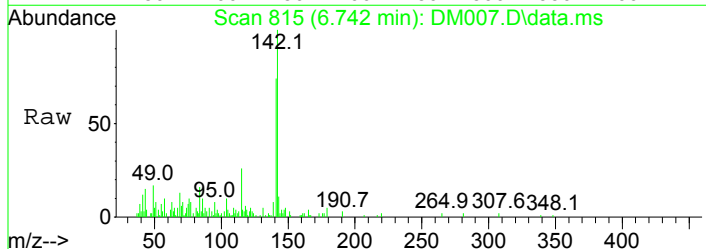
Tgt Ion	Resp	Lower	Upper
142	12331		
141	78.1	66.0	106.0
115	23.8	8.8	48.8





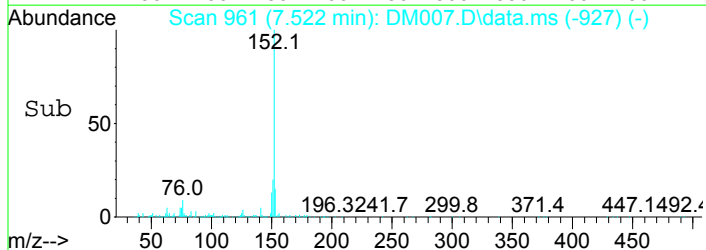
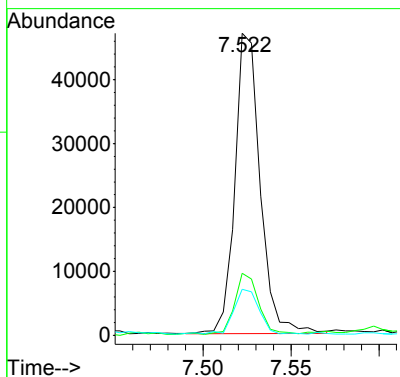
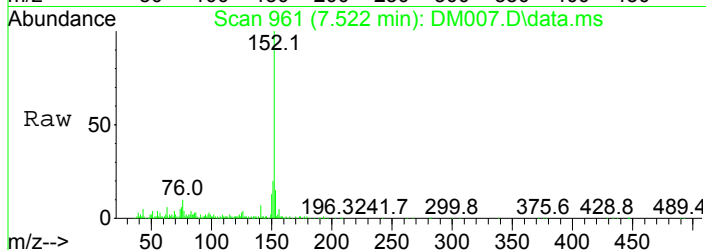
#41  
 1-Methylnaphthalene  
 Concen: 1.12 ppm  
 RT: 6.742 min Scan# 815  
 Delta R.T. -0.009 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

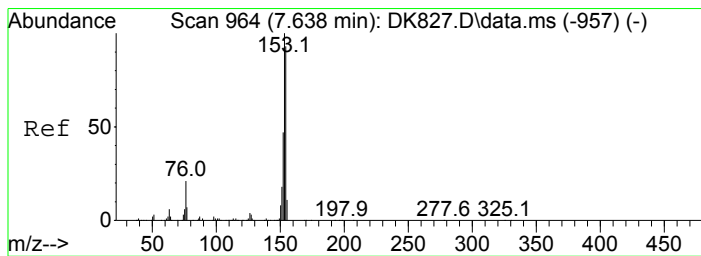
Tgt Ion	Resp	Lower	Upper
142	100		
141	71.3	61.6	121.6
115	23.0	1.0	61.0



#52  
 Acenaphthylene  
 Concen: 3.41 ppm  
 RT: 7.522 min Scan# 961  
 Delta R.T. -0.017 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

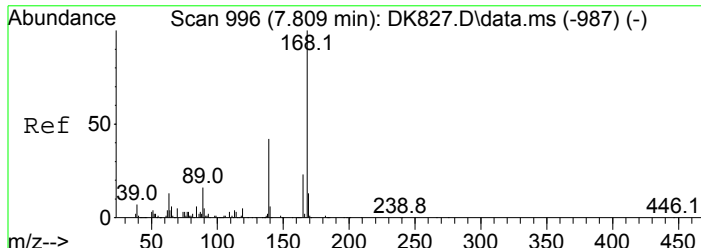
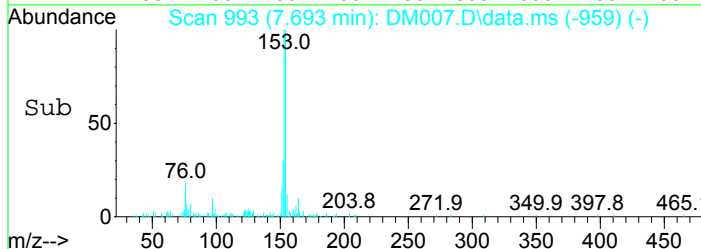
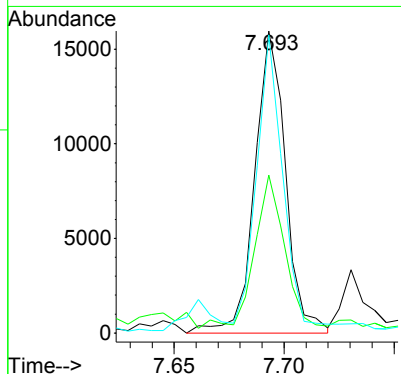
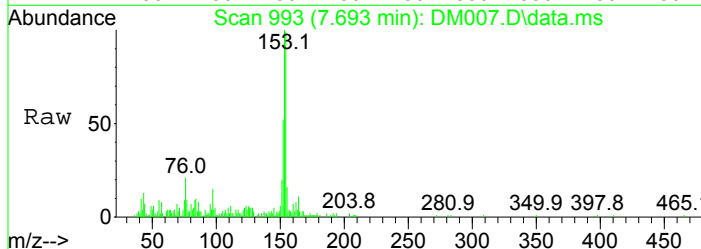
Tgt Ion	Resp	Lower	Upper
152	100		
151	19.7	0.6	40.6
153	14.8	0.0	33.9





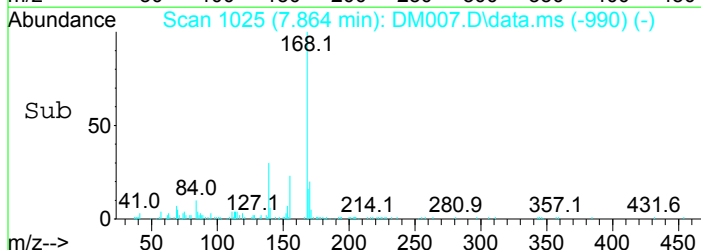
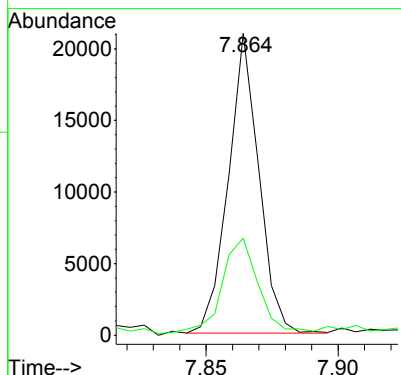
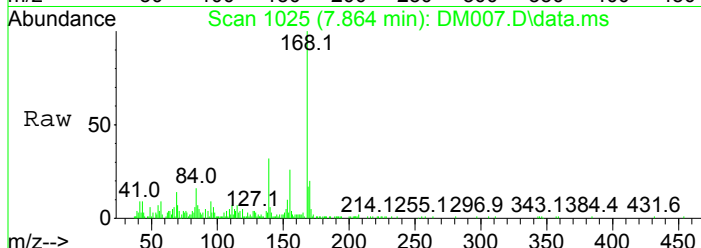
#55  
 Acenaphthene  
 Concen: 1.65 ppm  
 RT: 7.693 min Scan# 993  
 Delta R.T. -0.017 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

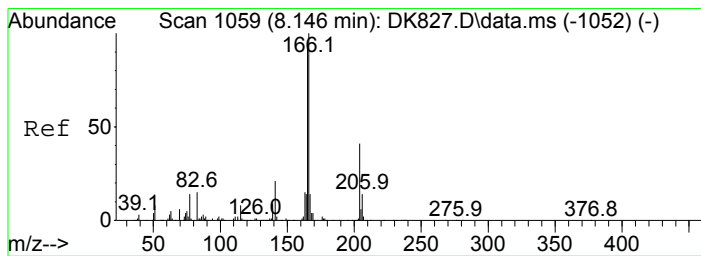
Tgt Ion	Resp	Lower	Upper
153	100		
152	48.2	28.0	68.0
154	95.5	72.5	112.5



#58  
 Dibenzofuran  
 Concen: 1.44 ppm  
 RT: 7.864 min Scan# 1025  
 Delta R.T. -0.014 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

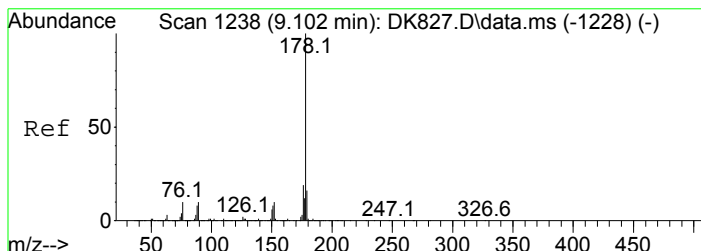
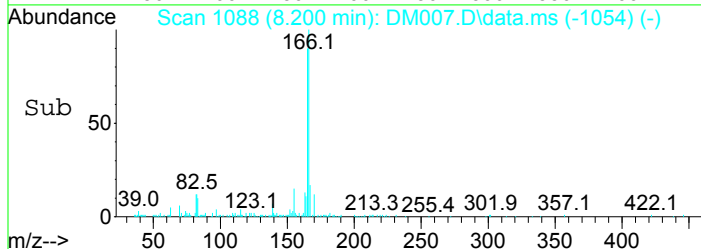
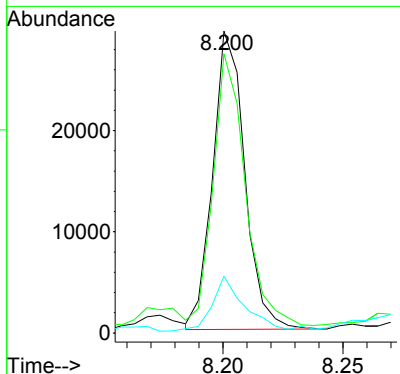
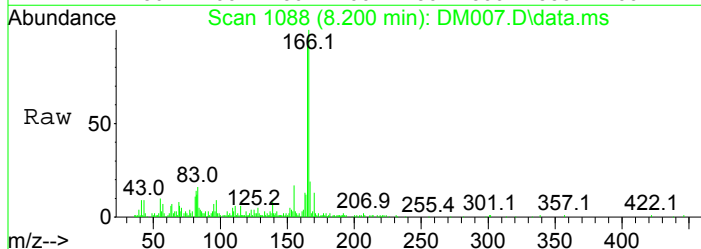
Tgt Ion	Resp	Lower	Upper
168	100		
139	29.9	14.2	54.2





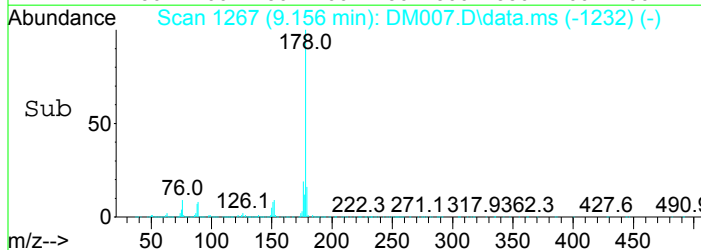
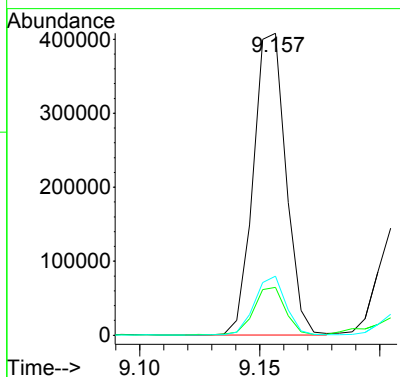
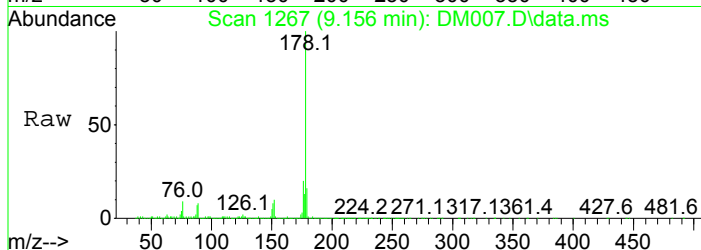
#63  
 Fluorene  
 Concen: 2.81 ppm  
 RT: 8.200 min Scan# 1088  
 Delta R.T. -0.017 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

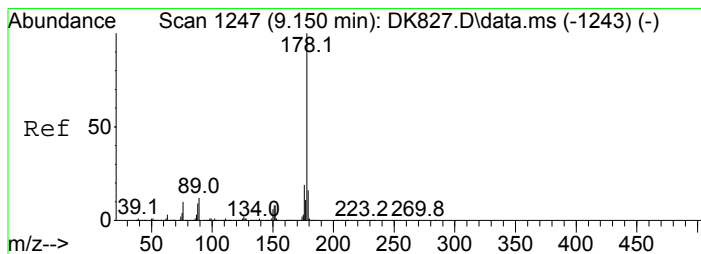
Tgt Ion	Resp	Lower	Upper
166	100		
165	90.9	62.8	122.8
167	17.6	0.0	43.9



#77  
 Phenanthrene  
 Concen: 30.55 ppm  
 RT: 9.156 min Scan# 1267  
 Delta R.T. -0.013 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

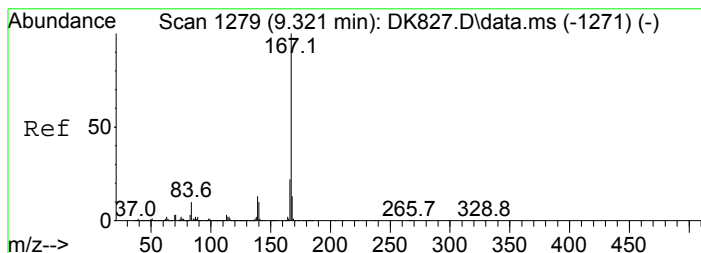
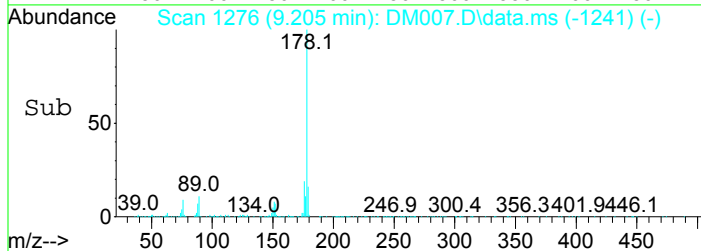
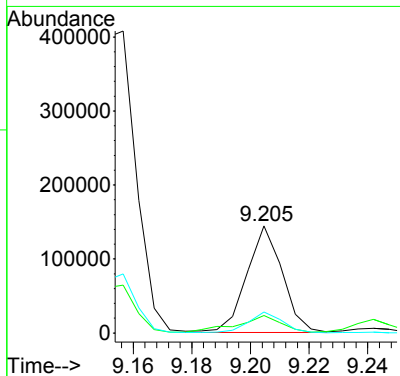
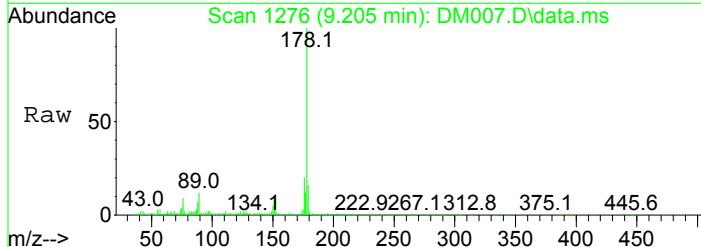
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.7	0.0	36.3
176	19.5	0.0	39.7





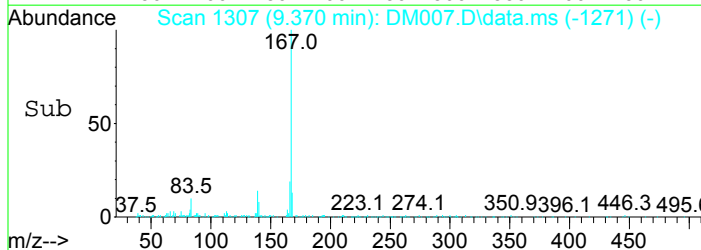
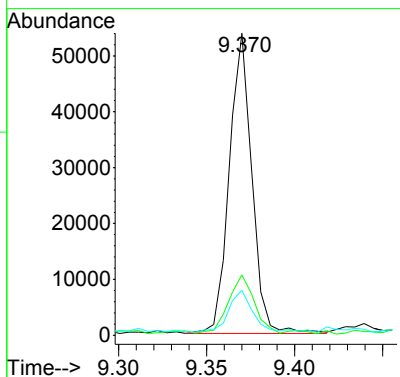
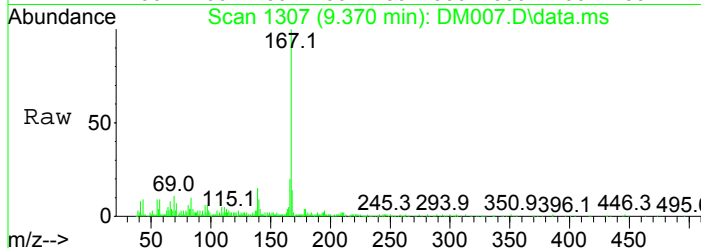
#78  
 Anthracene  
 Concen: 9.73 ppm  
 RT: 9.205 min Scan# 1276  
 Delta R.T. -0.015 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

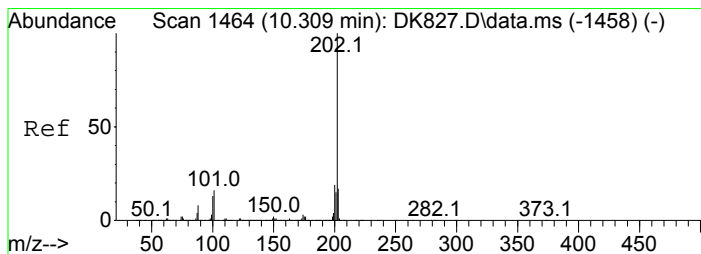
Tgt Ion	Resp	Lower	Upper
178	121778		
179	15.5	0.0	36.2
176	19.5	0.0	39.4



#79  
 Carbazole  
 Concen: 3.71 ppm  
 RT: 9.370 min Scan# 1307  
 Delta R.T. -0.010 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

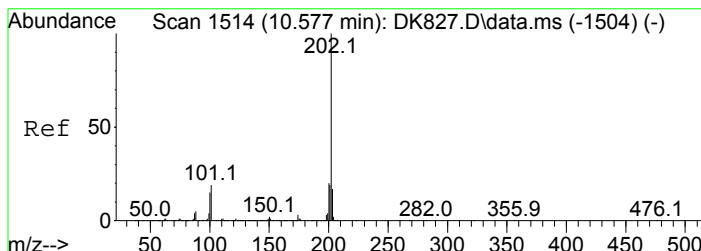
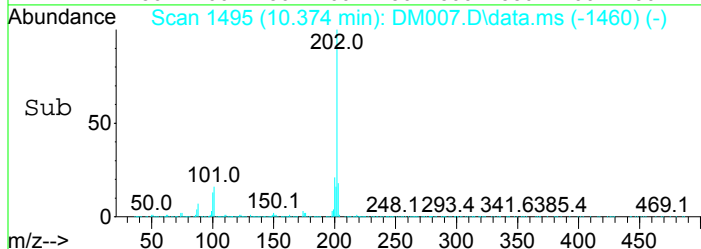
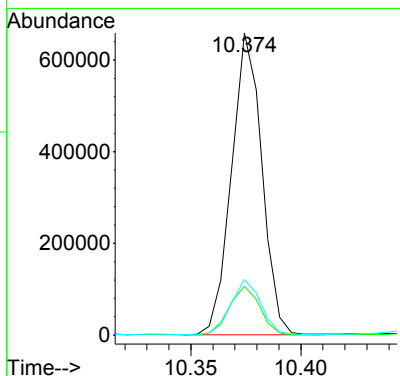
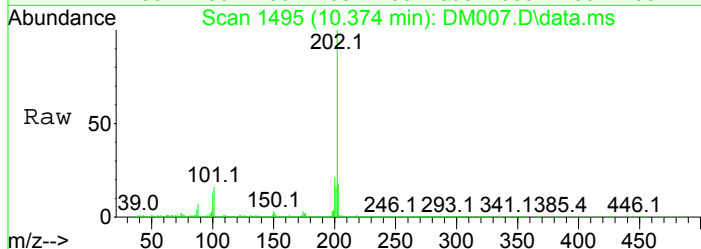
Tgt Ion	Resp	Lower	Upper
167	48018		
166	18.7	1.7	41.7
139	13.1	0.0	32.8





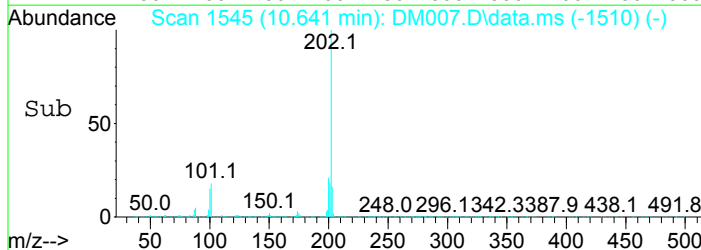
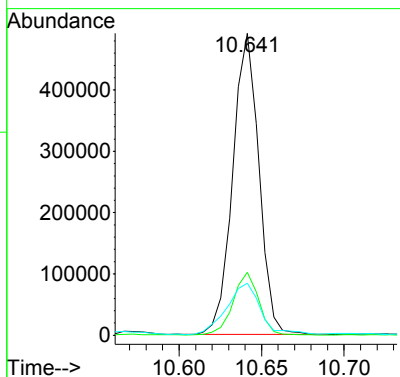
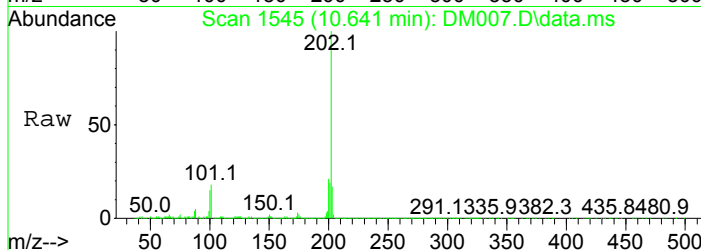
#81  
 Fluoranthene  
 Concen: 49.17 ppm  
 RT: 10.374 min Scan# 1495  
 Delta R.T. -0.015 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
202	630193		
101	16.1	0.0	35.1
203	18.3	0.0	37.7

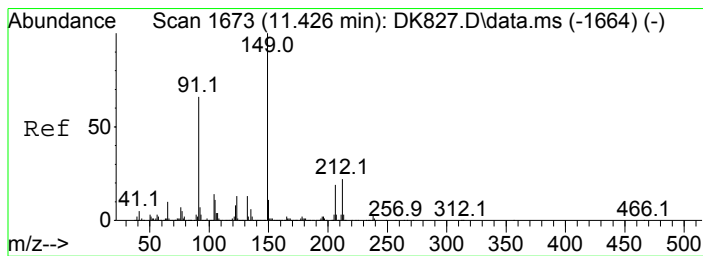


#84  
 Pyrene  
 Concen: 40.86 ppm  
 RT: 10.641 min Scan# 1545  
 Delta R.T. -0.015 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
202	540213		
200	20.8	1.7	41.7
203	17.0	0.0	37.6

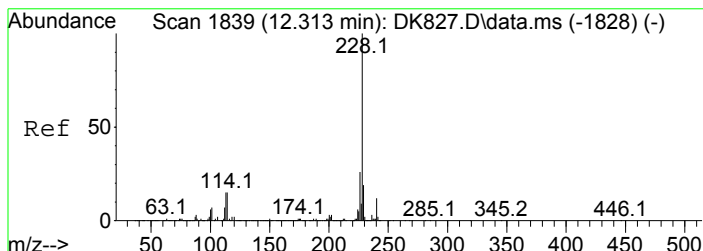
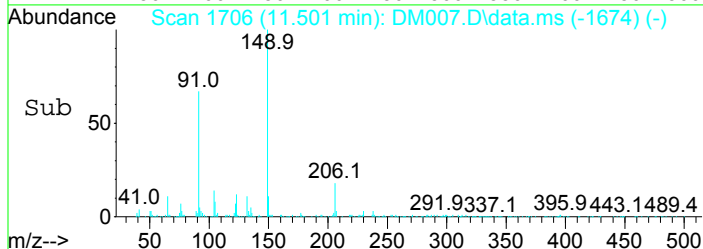
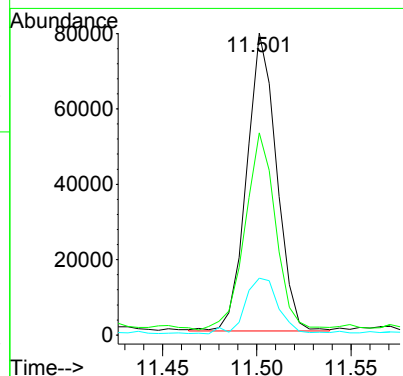
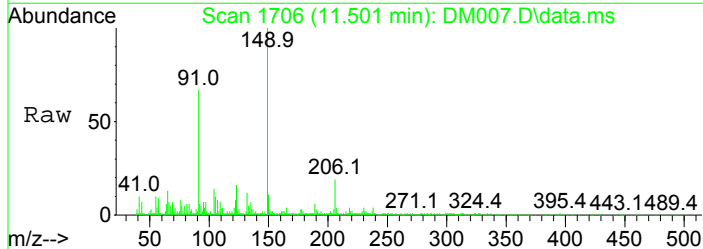






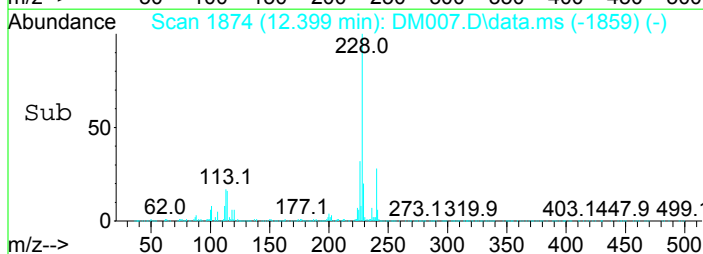
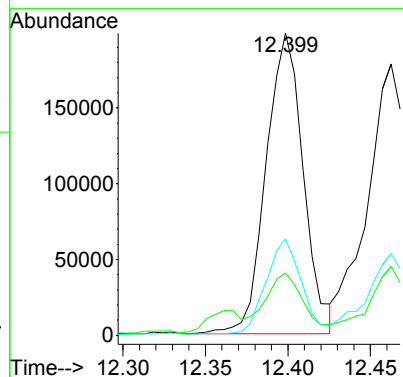
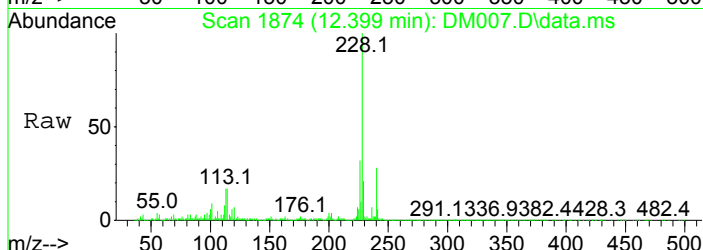
#86  
 Butyl benzyl phthalate  
 Concen: 12.25 ppm  
 RT: 11.501 min Scan# 1706  
 Delta R.T. -0.028 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

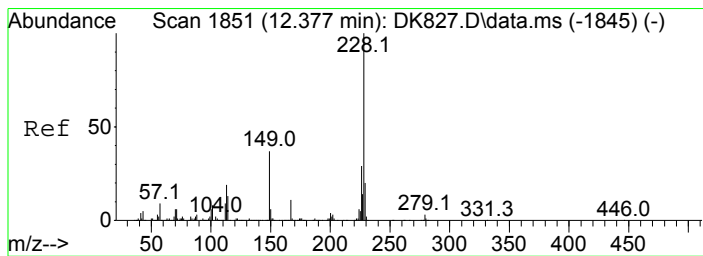
Tgt Ion	Resp	Lower	Upper
149	100		
91	65.6	50.3	90.3
206	18.5	0.0	39.0



#88  
 Benzo(a)anthracene  
 Concen: 24.81 ppm  
 RT: 12.399 min Scan# 1874  
 Delta R.T. -0.019 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

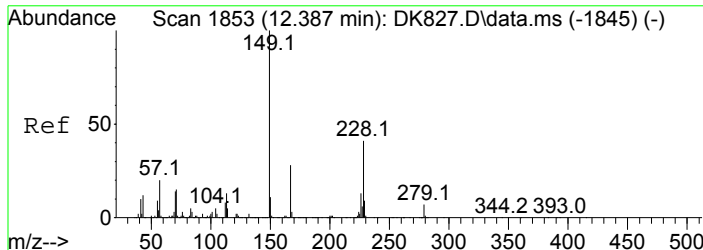
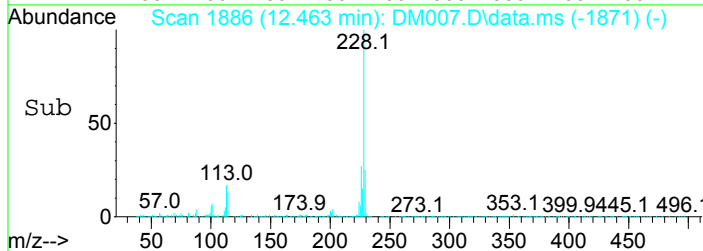
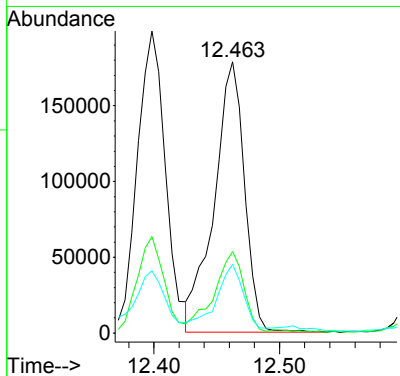
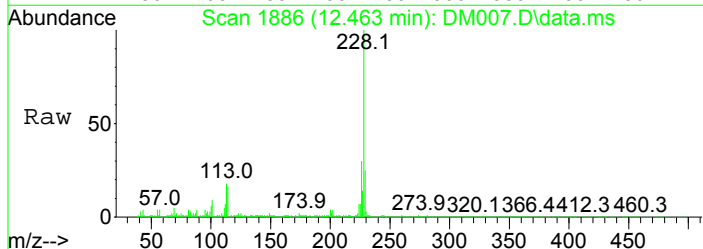
Tgt Ion	Resp	Lower	Upper
228	100		
229	19.4	0.0	39.4
226	32.0	7.9	47.9





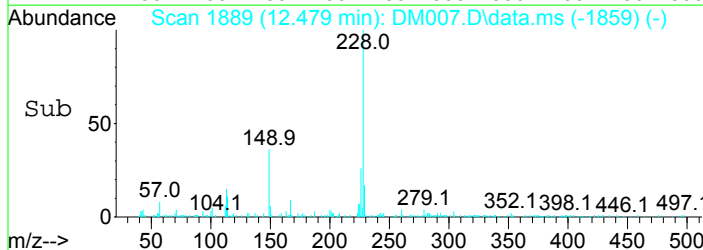
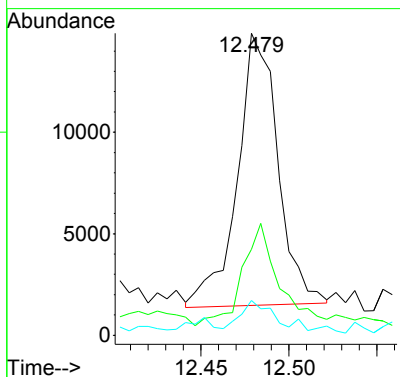
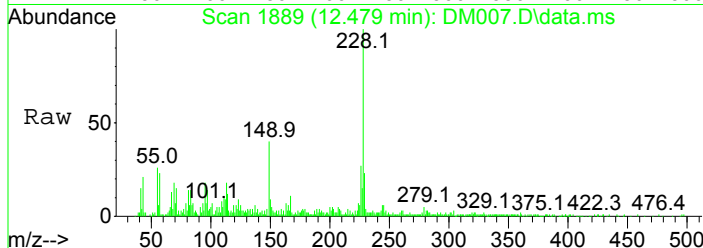
#89  
 Chrysene  
 Concen: 25.56 ppm  
 RT: 12.463 min Scan# 1886  
 Delta R.T. -0.020 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

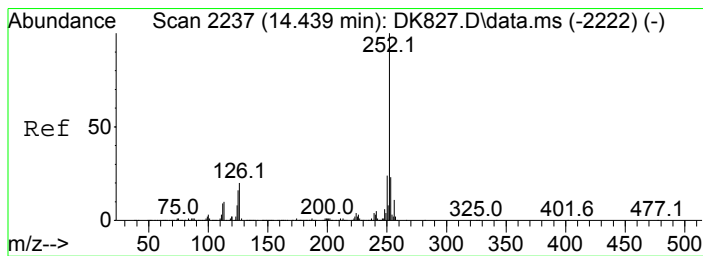
Tgt Ion	Resp	Lower	Upper
228	299083		
226	30.0	9.9	49.9
229	24.3	0.0	39.5



#90  
 bis(2-Ethylhexyl)phthalate  
 Concen: 2.23 ppm  
 RT: 12.479 min Scan# 1889  
 Delta R.T. -0.039 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

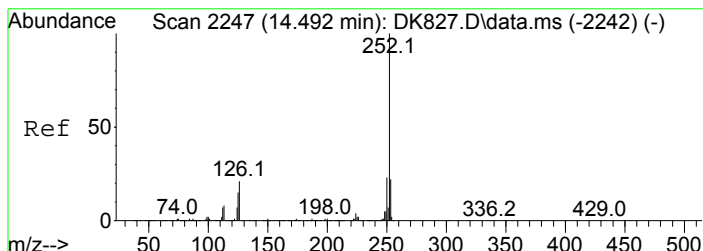
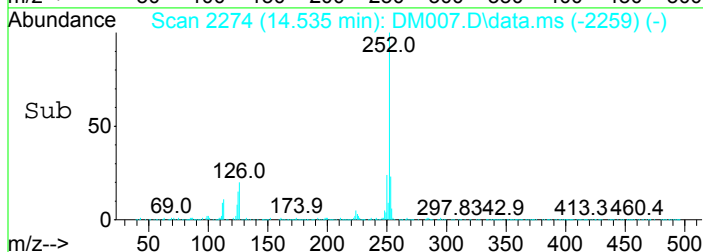
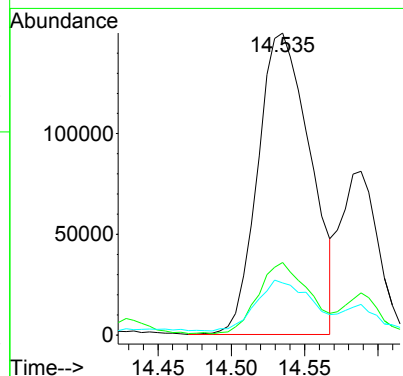
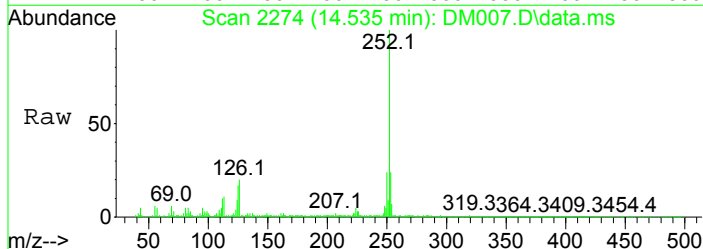
Tgt Ion	Resp	Lower	Upper
149	21457		
167	25.8	9.1	49.1
279	8.9	0.0	26.9





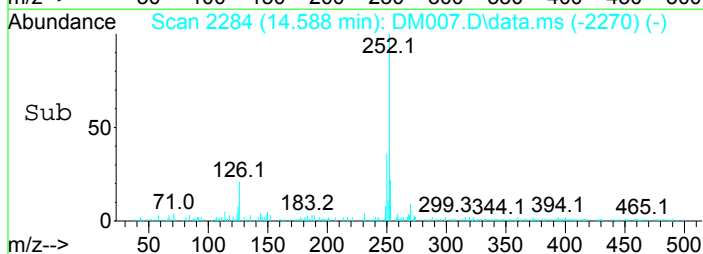
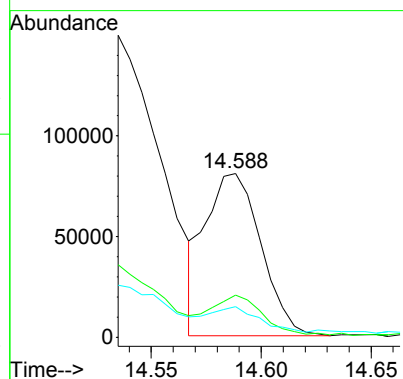
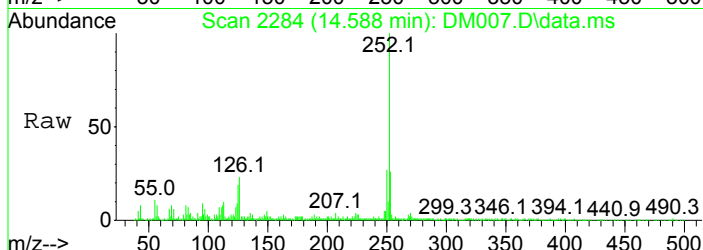
#93  
 Benzo(b)Fluoranthene  
 Concen: 32.49 ppm  
 RT: 14.535 min Scan# 2274  
 Delta R.T. -0.020 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

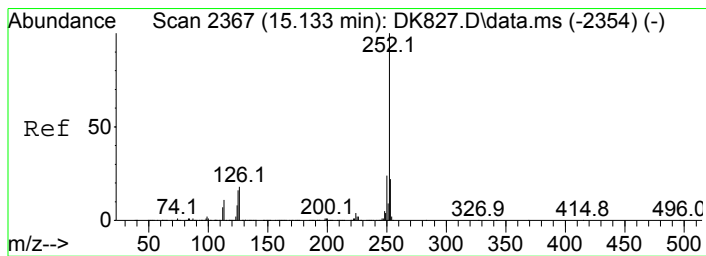
Tgt Ion	Resp	Lower	Upper
252	100		
253	24.0	4.1	44.1
125	15.6	0.0	37.3



#94  
 Benzo(k)fluoranthene  
 Concen: 13.03 ppm  
 RT: 14.588 min Scan# 2284  
 Delta R.T. -0.023 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

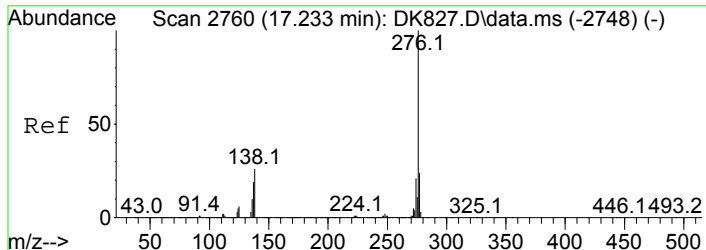
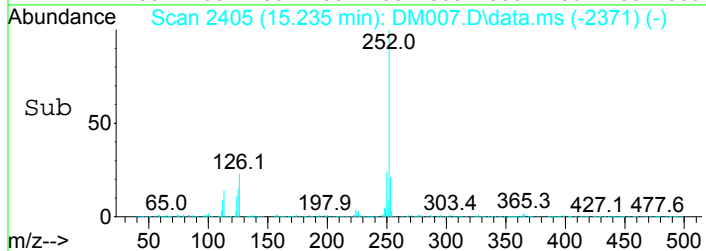
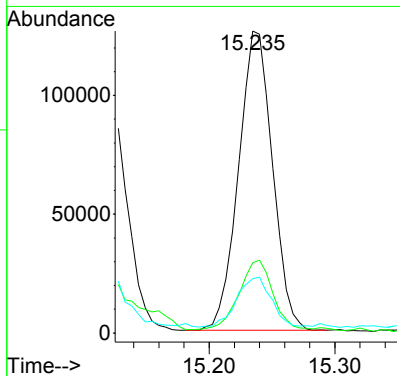
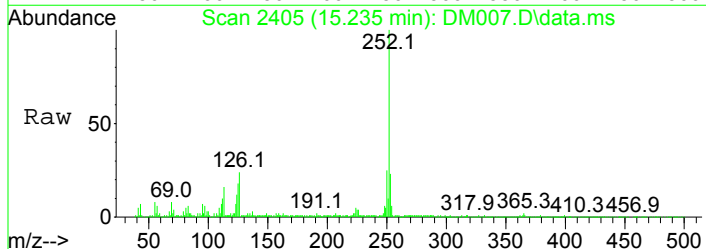
Tgt Ion	Resp	Lower	Upper
252	100		
253	26.1	1.1	41.1
125	15.0	0.0	35.2





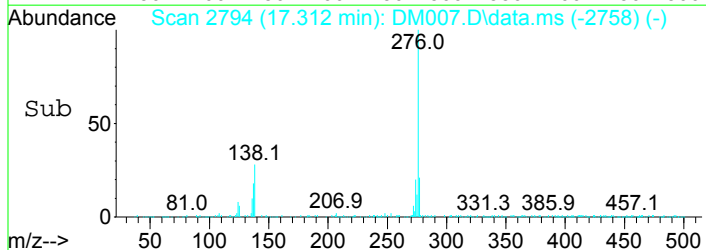
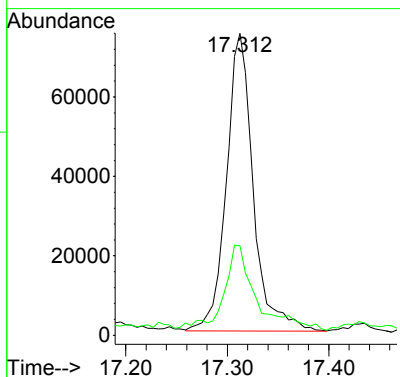
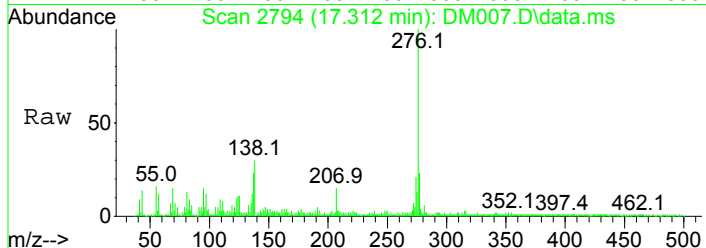
#95  
 Benzo(a)pyrene  
 Concen: 23.99 ppm  
 RT: 15.235 min Scan# 2405  
 Delta R.T. -0.019 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

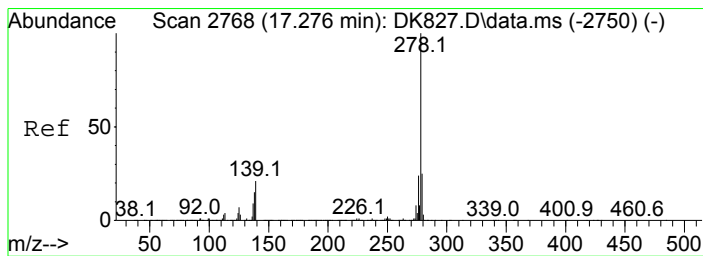
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.1	1.3	41.3
125	15.3	0.0	36.3



#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 14.90 ppm  
 RT: 17.312 min Scan# 2794  
 Delta R.T. -0.010 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

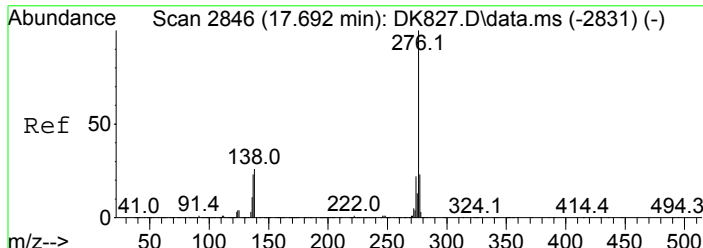
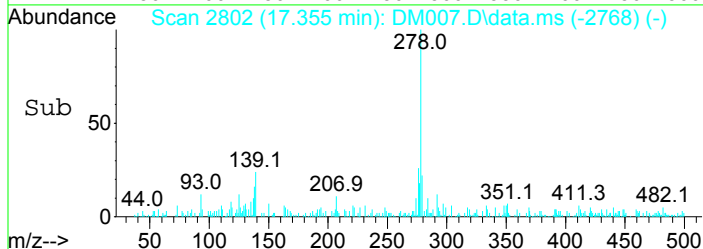
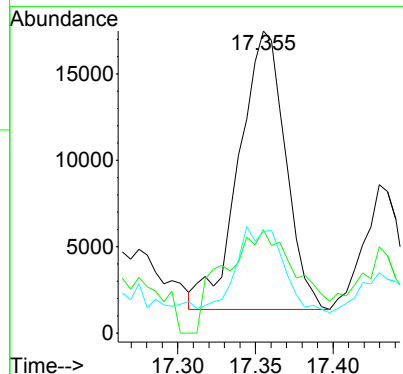
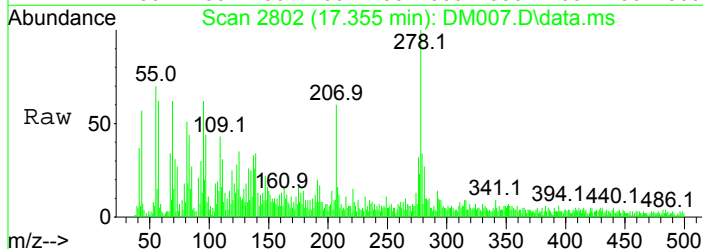
Tgt Ion	Resp	Lower	Upper
276	100		
138	27.2	6.0	46.0





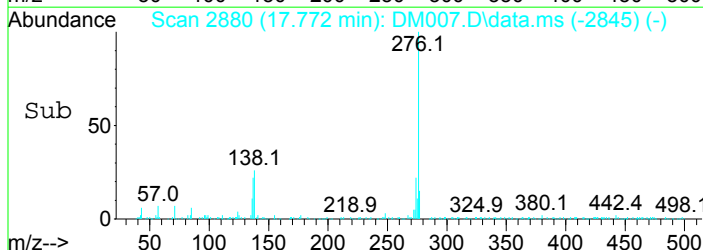
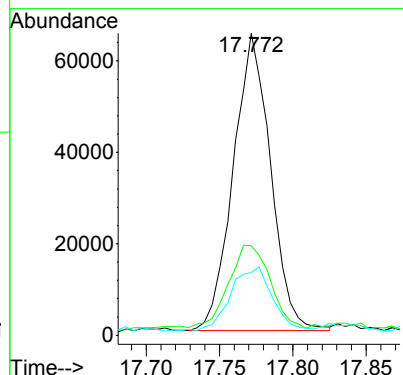
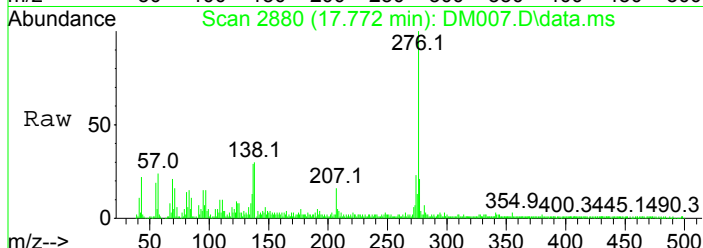
#97  
 Dibenz(a,h)anthracene  
 Concen: 3.33 ppm  
 RT: 17.355 min Scan# 2802  
 Delta R.T. -0.021 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
278	100		
139	32.3	2.6	42.6
279	28.0	4.6	44.6



#98  
 Benzo(g,h,i)perylene  
 Concen: 12.48 ppm  
 RT: 17.772 min Scan# 2880  
 Delta R.T. -0.011 min  
 Lab File: DM007.D  
 Acq: 22 Feb 2018 10:49 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	27.4	10.9	50.9
277	18.1	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM008.D  
 Acq On : 22 Feb 2018 11:17 pm  
 Operator : J.Misiurewicz  
 Sample : R1801453-017|5.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 22 Sample Multiplier: 1

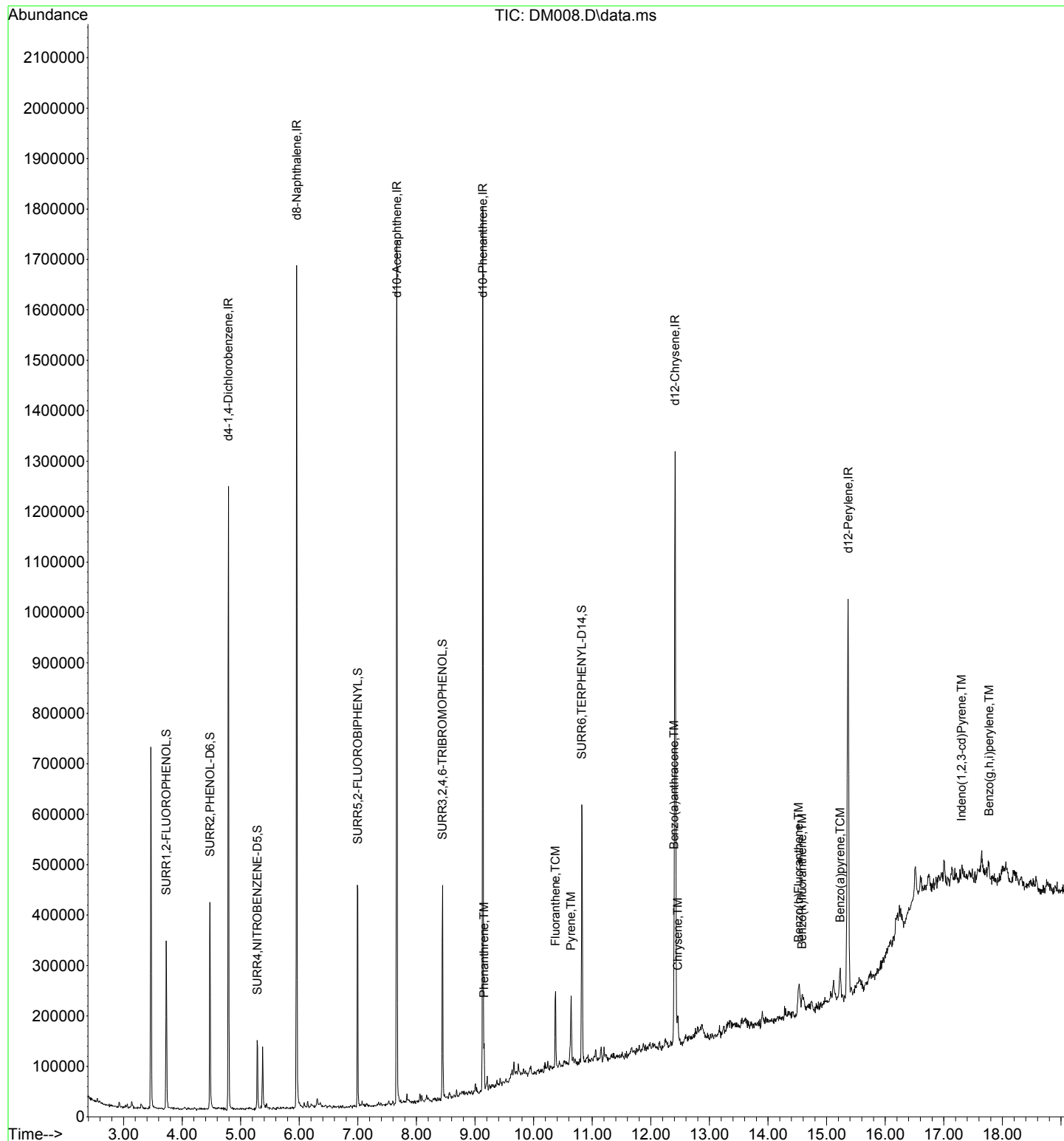
Quant Time: Feb 26 14:57:40 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

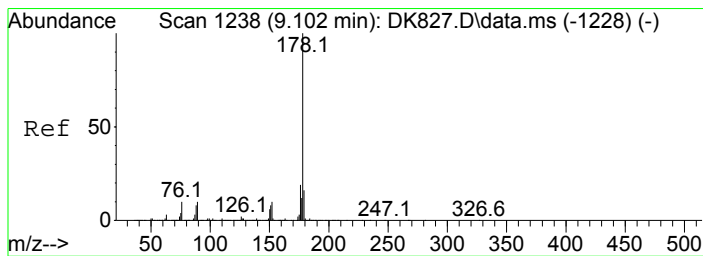
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.791	152	195754	40.00	ppm	-0.01
24) d8-Naphthalene	5.955	136	732604	40.00	ppm	-0.01
42) d10-Acenaphthene	7.664	164	354633	40.00	ppm	-0.01
69) d10-Phenanthrene	9.133	188	626992	40.00	ppm	-0.01
82) d12-Chrysene	12.413	240	557526	40.00	ppm	-0.02
91) d12-Perylene	15.366	264	505201	40.00	ppm	-0.02
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.728	112	120639	19.03	ppm	0.00
Spiked Amount	200.000	Range	16 - 129	Recovery	=	9.52%#
8) SURR2,PHENOL-D6	4.476	99	173329	22.05	ppm	0.00
Spiked Amount	200.000	Range	10 - 145	Recovery	=	11.03%
25) SURR4,NITROBENZENE-D5	5.282	82	49501	9.19	ppm	-0.01
Spiked Amount	100.000	Range	11 - 91	Recovery	=	9.19%#
48) SURR5,2-FLUOROBIPHENYL	6.997	172	144114	11.50	ppm	-0.01
Spiked Amount	100.000	Range	14 - 102	Recovery	=	11.50%#
67) SURR3,2,4,6-TRIBROMOPH...	8.444	330	58468	34.57	ppm	-0.01
Spiked Amount	200.000	Range	10 - 109	Recovery	=	17.29%
85) SURR6,TERPHENYL-D14	10.821	244	192405	16.07	ppm	-0.02
Spiked Amount	100.000	Range	16 - 120	Recovery	=	16.07%
<b>Target Compounds</b>						
77) Phenanthrene	9.155	178	32316	1.964	ppm	94
81) Fluoranthene	10.372	202	68483	4.071	ppm	96
84) Pyrene	10.639	202	62194	3.770	ppm	97
88) Benzo(a)anthracene	12.397	228	39475	2.528	ppm	88
89) Chrysene	12.461	228	36174	2.477	ppm	93
93) Benzo(b)Fluoranthene	14.522	252	54757	3.817	ppm	90
94) Benzo(k)fluoranthene	14.581	252	18079	1.333	ppm	88
95) Benzo(a)pyrene	15.233	252	37445	3.035	ppm	89
96) Indeno(1,2,3-cd)Pyrene	17.305	276	23242	2.010	ppm	96
98) Benzo(g,h,i)perylene	17.770	276	24393	2.109	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM008.D  
Acq On : 22 Feb 2018 11:17 pm  
Operator : J.Misiurewicz  
Sample : R1801453-017|5.0  
Misc : 308725 8270D SOIL  
ALS Vial : 22 Sample Multiplier: 1

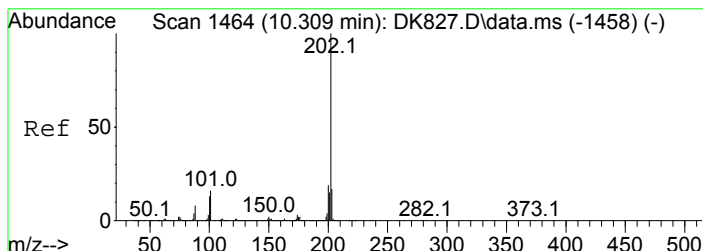
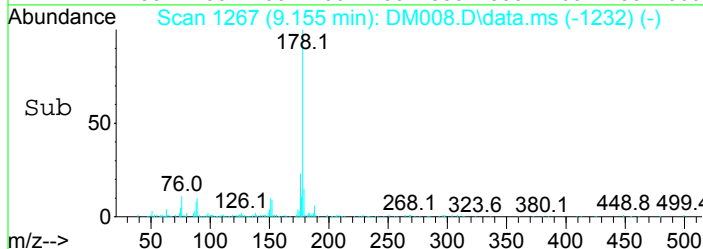
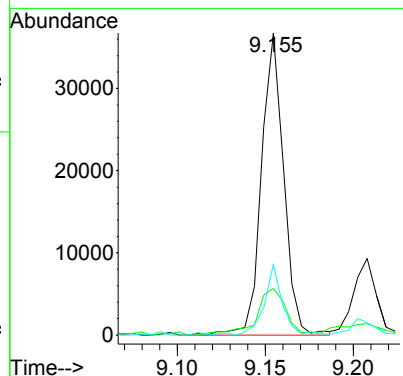
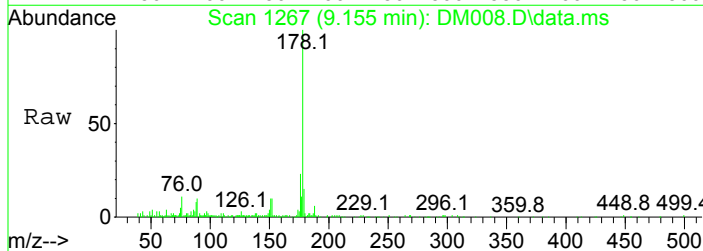
Quant Time: Feb 26 14:57:40 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





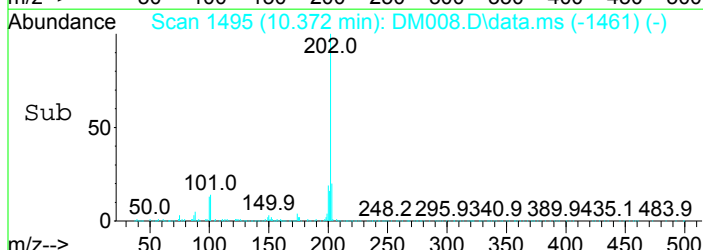
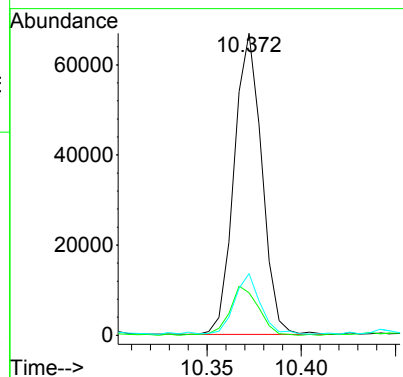
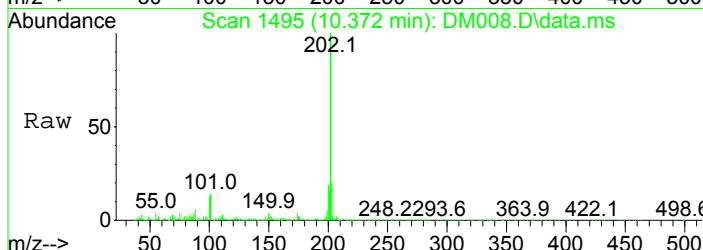
#77  
 Phenanthrene  
 Concen: 1.96 ppm  
 RT: 9.155 min Scan# 1267  
 Delta R.T. -0.015 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

Tgt Ion	Resp	Lower	Upper
178	100		
179	14.4	0.0	36.3
176	23.3	0.0	39.7

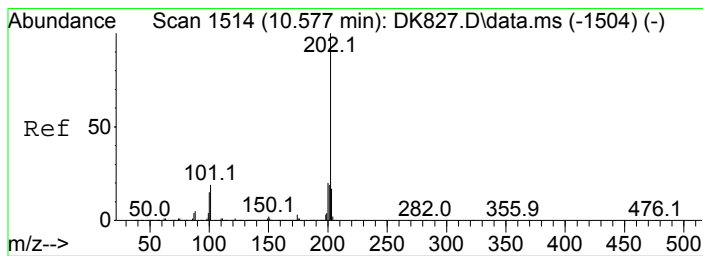


#81  
 Fluoranthene  
 Concen: 4.07 ppm  
 RT: 10.372 min Scan# 1495  
 Delta R.T. -0.017 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

Tgt Ion	Resp	Lower	Upper
202	100		
101	13.8	0.0	35.1
203	19.6	0.0	37.7

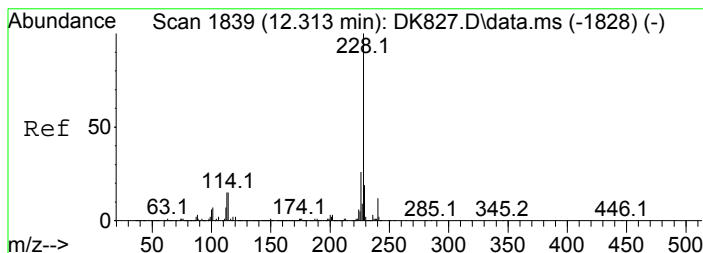
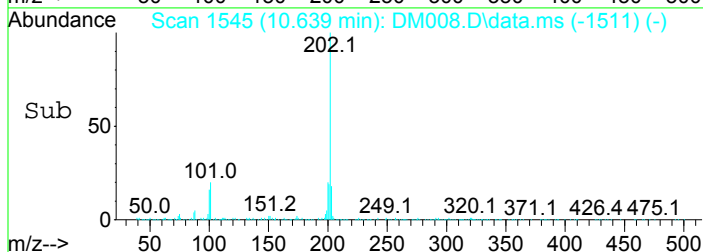
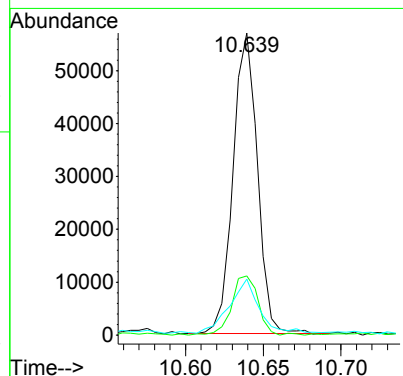
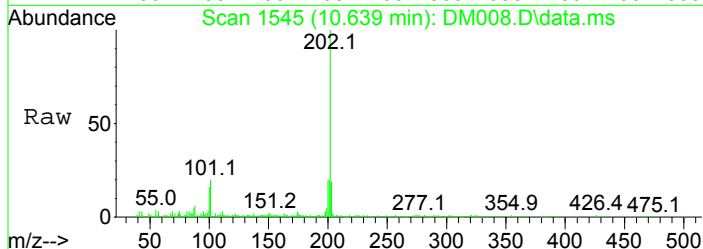






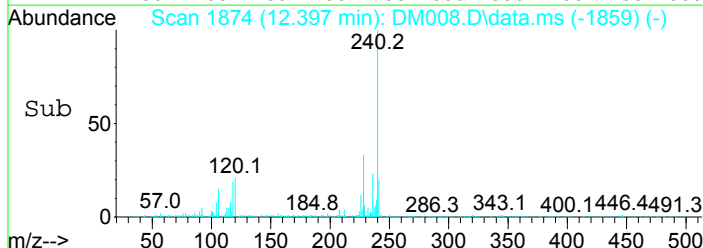
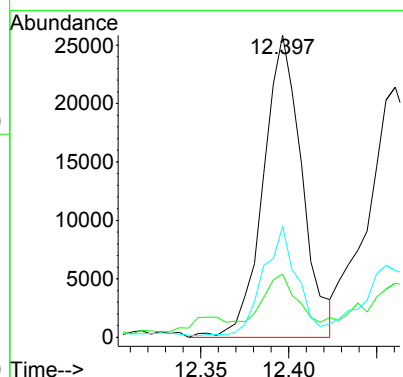
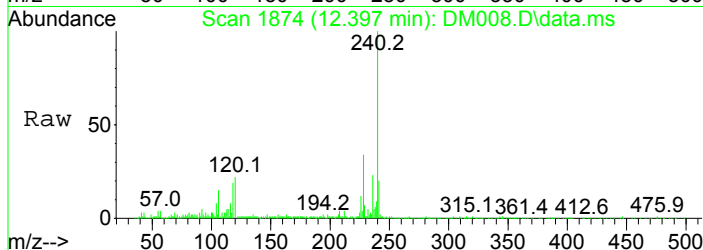
#84  
 Pyrene  
 Concen: 3.77 ppm  
 RT: 10.639 min Scan# 1545  
 Delta R.T. -0.017 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

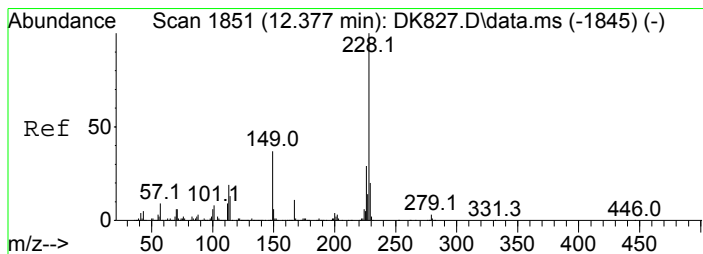
Tgt Ion	Resp	Lower	Upper
202	62194		
200	19.6	1.7	41.7
203	17.7	0.0	37.6



#88  
 Benzo(a)anthracene  
 Concen: 2.53 ppm  
 RT: 12.397 min Scan# 1874  
 Delta R.T. -0.021 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

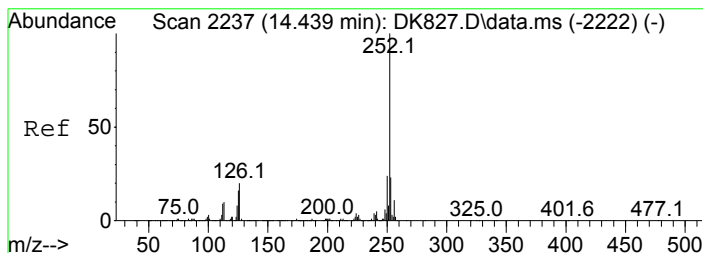
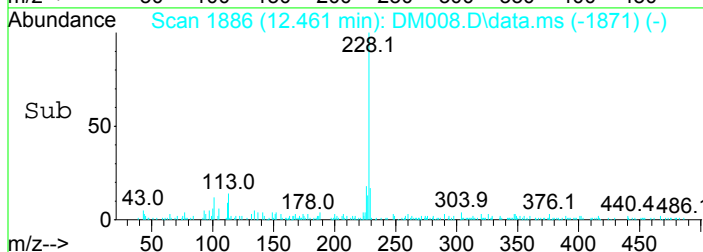
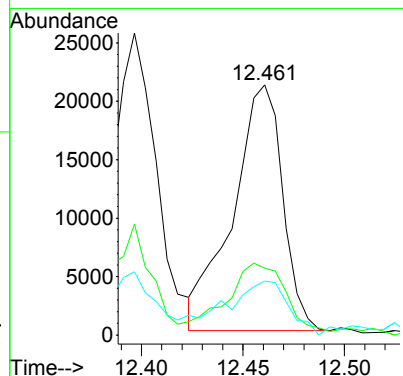
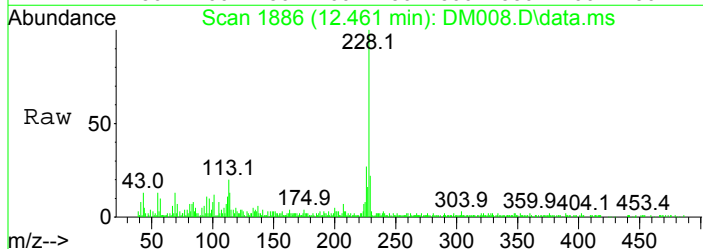
Tgt Ion	Resp	Lower	Upper
228	39475		
229	17.3	0.0	39.4
226	36.5	7.9	47.9





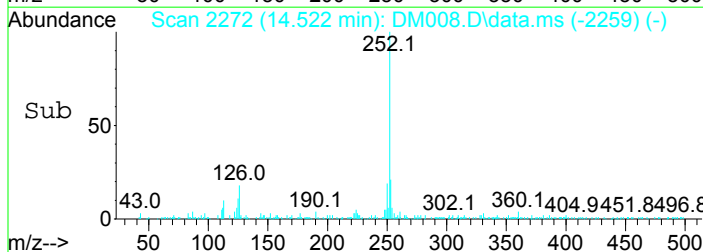
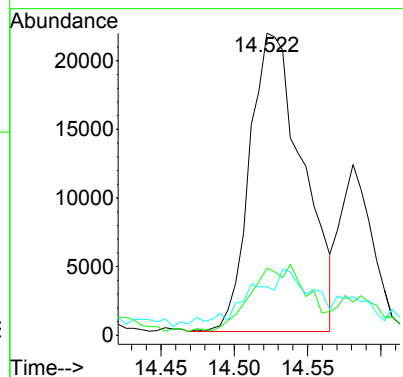
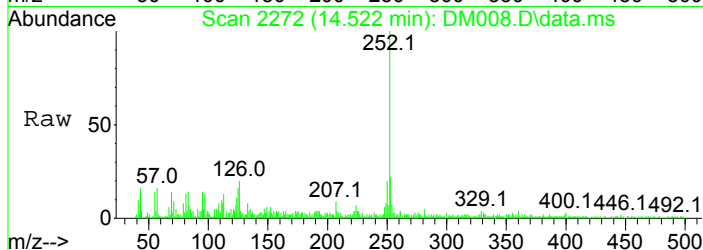
#89  
 Chrysene  
 Concen: 2.48 ppm  
 RT: 12.461 min Scan# 1886  
 Delta R.T. -0.022 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

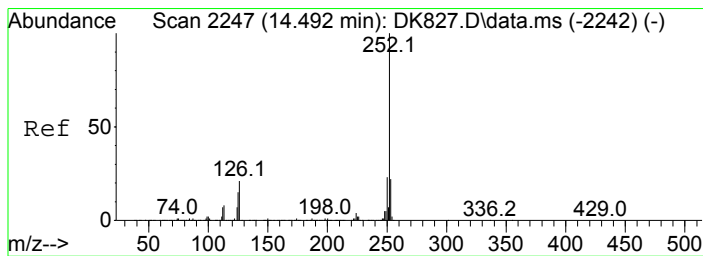
Tgt Ion	Resp	Lower	Upper
228	100		
226	25.5	9.9	49.9
229	17.5	0.0	39.5



#93  
 Benzo(b)Fluoranthene  
 Concen: 3.82 ppm  
 RT: 14.522 min Scan# 2272  
 Delta R.T. -0.032 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

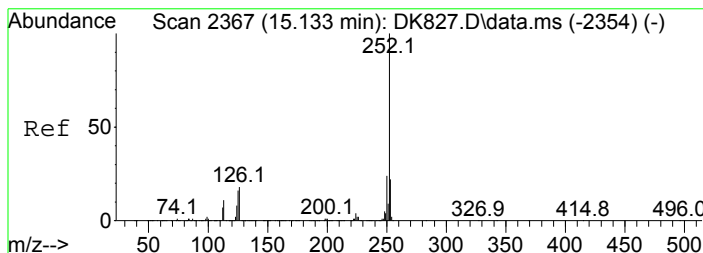
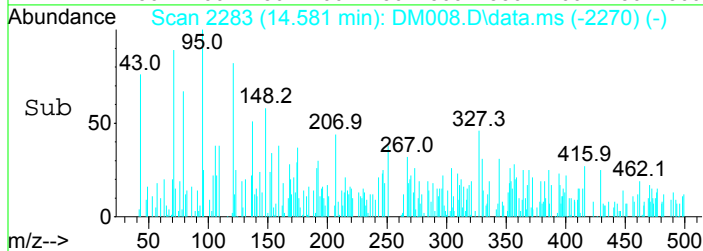
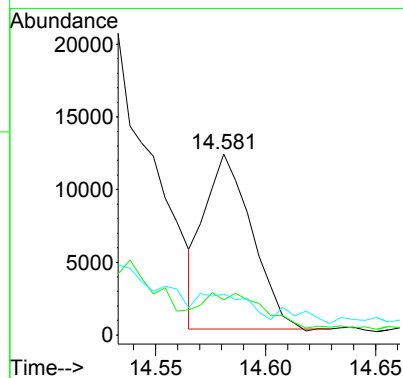
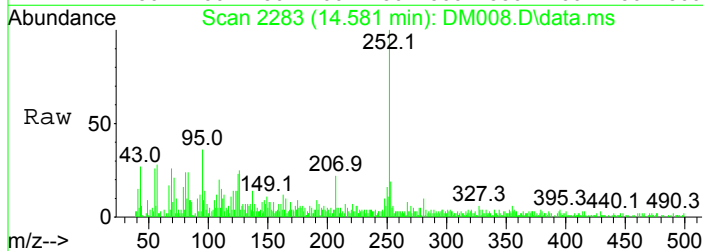
Tgt Ion	Resp	Lower	Upper
252	100		
253	20.5	4.1	44.1
125	11.4	0.0	37.3





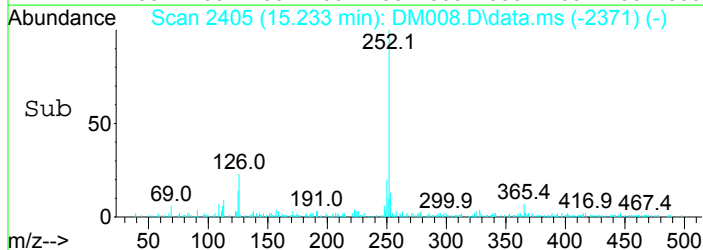
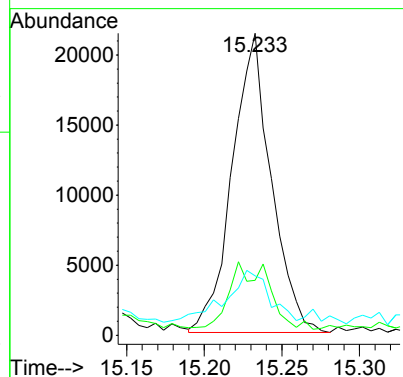
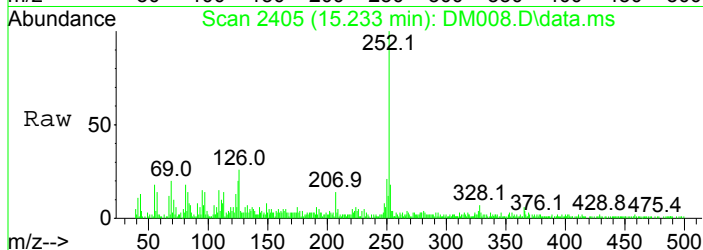
#94  
 Benzo(k)fluoranthene  
 Concen: 1.33 ppm  
 RT: 14.581 min Scan# 2283  
 Delta R.T. -0.031 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

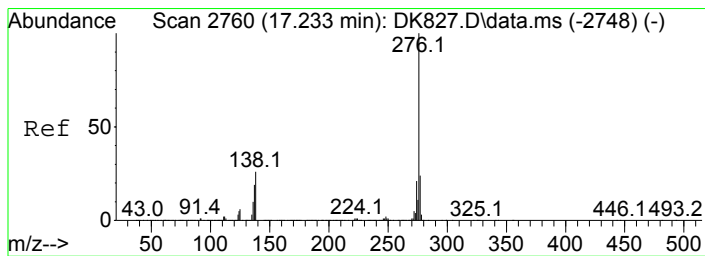
Tgt Ion	Resp	Lower	Upper
252	18079		
253	13.7	1.1	41.1
125	12.1	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 3.04 ppm  
 RT: 15.233 min Scan# 2405  
 Delta R.T. -0.021 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

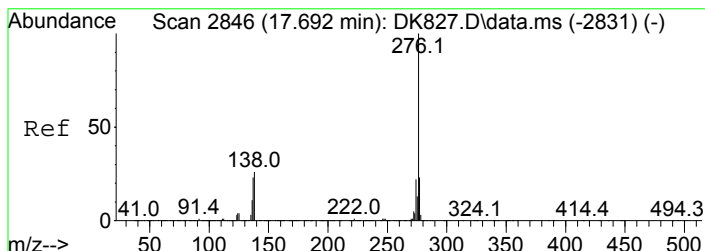
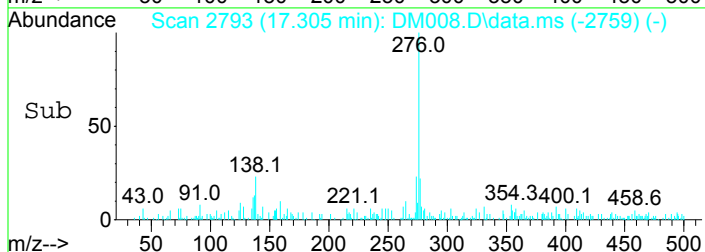
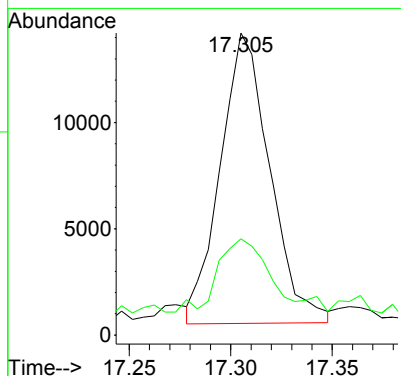
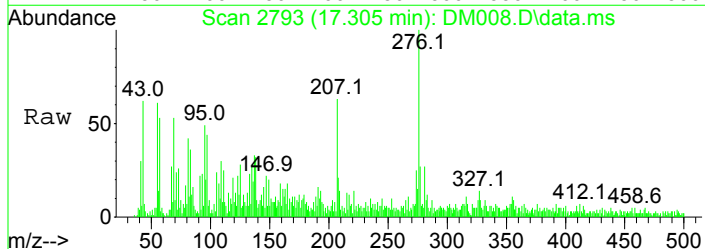
Tgt Ion	Resp	Lower	Upper
252	37445		
253	14.4	1.3	41.3
125	13.1	0.0	36.3





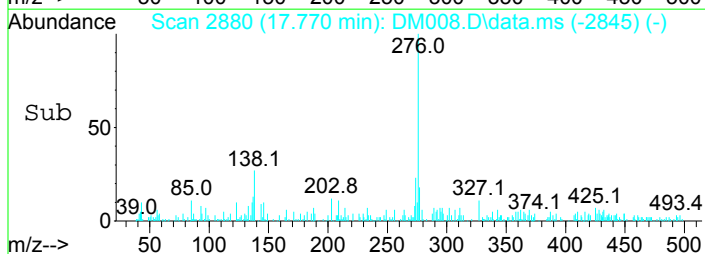
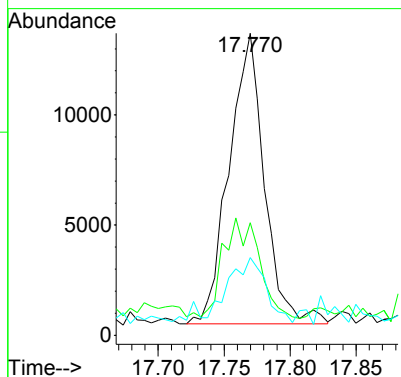
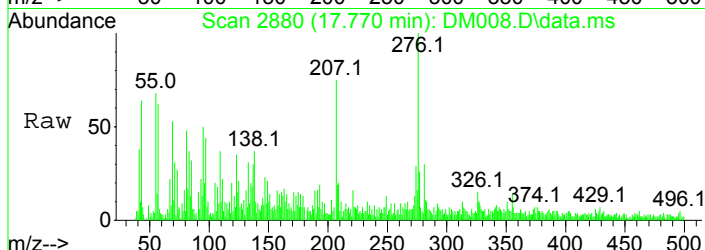
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 2.01 ppm  
 RT: 17.305 min Scan# 2793  
 Delta R.T. -0.017 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	24.2	6.0	46.0



#98  
 Benzo(g,h,i)perylene  
 Concen: 2.11 ppm  
 RT: 17.770 min Scan# 2880  
 Delta R.T. -0.013 min  
 Lab File: DM008.D  
 Acq: 22 Feb 2018 11:17 pm

Tgt Ion	Resp	Lower	Upper
276	100		
138	31.4	10.9	50.9
277	19.8	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM056.D  
 Acq On : 27 Feb 2018 10:56 am  
 Operator : J.Misiurewicz  
 Sample : R1801453-018|2.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 6 Sample Multiplier: 1

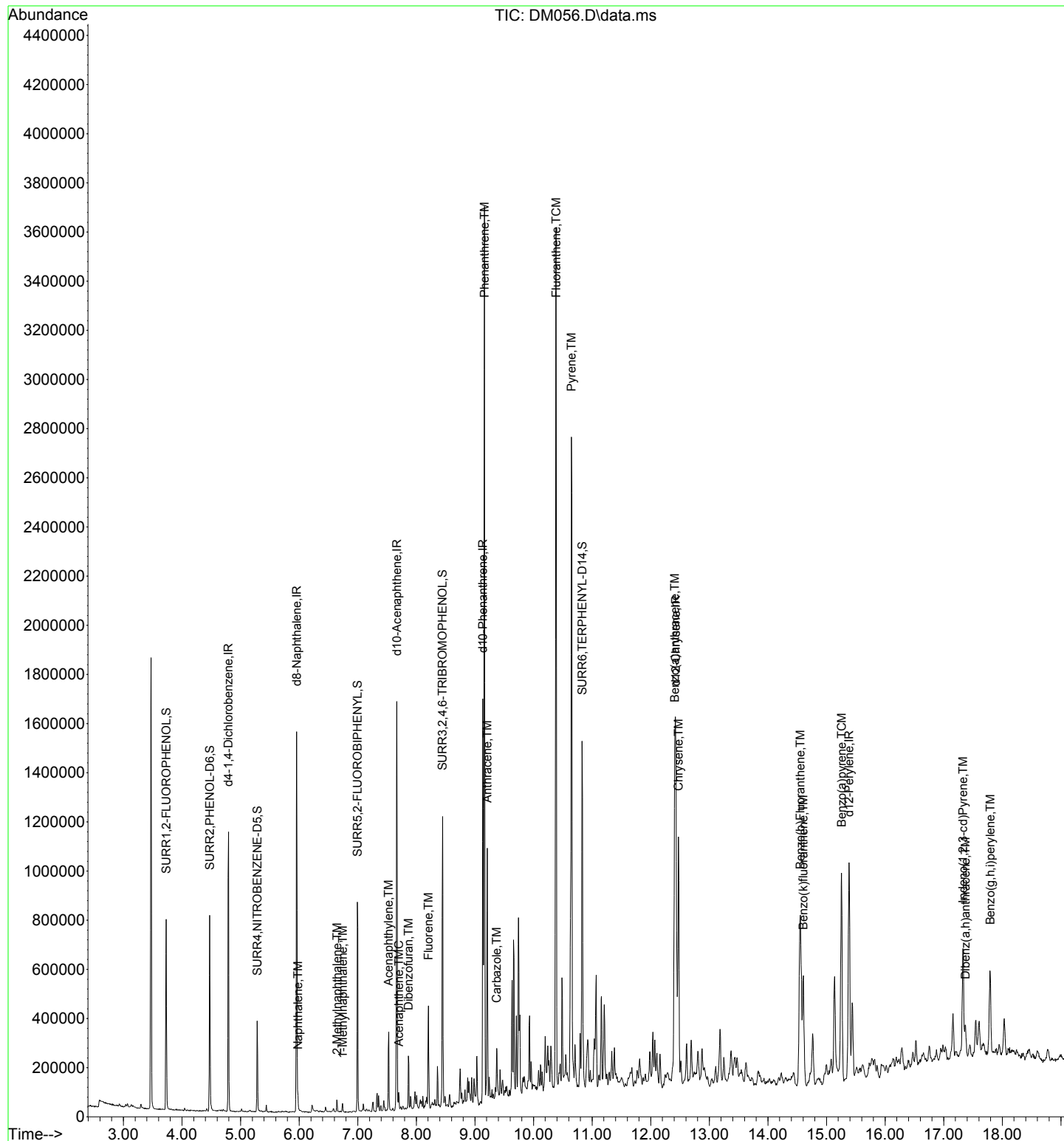
Quant Time: Feb 28 10:48:42 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

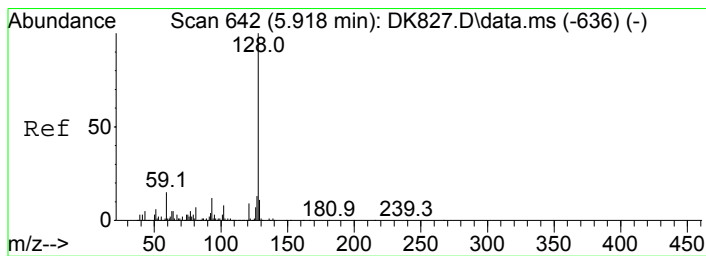
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.793	152	186172	40.00	ppm	-0.01
24) d8-Naphthalene	5.957	136	709077	40.00	ppm	-0.01
42) d10-Acenaphthene	7.667	164	337085	40.00	ppm	-0.01
69) d10-Phenanthrene	9.135	188	590959	40.00	ppm	0.00
82) d12-Chrysene	12.425	240	533873	40.00	ppm	-0.01
91) d12-Perylene	15.384	264	565701	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.730	112	262201	43.49	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	21.75%		
8) SURR2,PHENOL-D6	4.473	99	327190	43.77	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	21.89%		
25) SURR4,NITROBENZENE-D5	5.284	82	118105	22.64	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	22.64%		
48) SURR5,2-FLUOROBIPHENYL	6.994	172	265255	22.27	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	22.27%		
67) SURR3,2,4,6-TRIBROMOPH...	8.446	330	136200	84.73	ppm	-0.01
Spiked Amount 200.000	Range 10	- 109	Recovery =	42.37%		
85) SURR6,TERPHENYL-D14	10.828	244	515376	44.95	ppm	-0.01
Spiked Amount 100.000	Range 16	- 120	Recovery =	44.95%		
<b>Target Compounds</b>						
						Qvalue
34) Naphthalene	5.979	128	21647	1.228	ppm	98
40) 2-Methylnaphthalene	6.646	142	14882	1.312	ppm	97
41) 1-Methylnaphthalene	6.743	142	11487	1.084	ppm	93
52) Acenaphthylene	7.528	152	135893	8.301	ppm	98
55) Acenaphthene	7.699	153	14525	1.297	ppm	99
58) Dibenzofuran	7.864	168	75643	5.468	ppm	96
63) Fluorene	8.206	166	116715	10.215	ppm	99
77) Phenanthrene	9.162	178	1308292	84.354	ppm	99
78) Anthracene	9.210	178	392434	25.362	ppm	97
79) Carbazole	9.370	167	80254	5.018	ppm	97
81) Fluoranthene	10.385	202	1513065	95.438	ppm	99
84) Pyrene	10.647	202	1213346	76.814	ppm	99
88) Benzo(a)anthracene	12.409	228	662693	44.317	ppm	92
89) Chrysene	12.473	228	537366	38.430	ppm	97
93) Benzo(b)Fluoranthene	14.551	252	640758	39.889	ppm	95
94) Benzo(k)fluoranthene	14.605	252	253865	16.717	ppm	96
95) Benzo(a)pyrene	15.256	252	521808	37.774	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.329	276	319186	24.651	ppm	97
97) Dibenz(a,h)anthracene	17.371	278	81956	5.790	ppm	89
98) Benzo(g,h,i)perylene	17.793	276	239209	18.470	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM056.D  
Acq On : 27 Feb 2018 10:56 am  
Operator : J.Misiurewicz  
Sample : R1801453-018|2.0  
Misc : 308725 8270D SOIL  
ALS Vial : 6 Sample Multiplier: 1

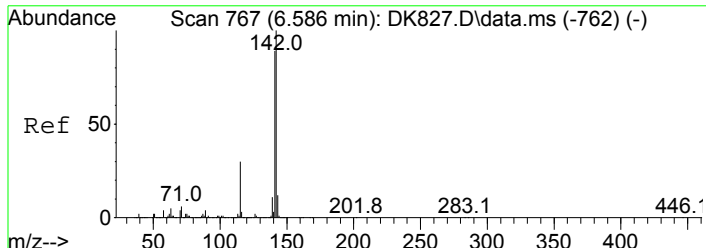
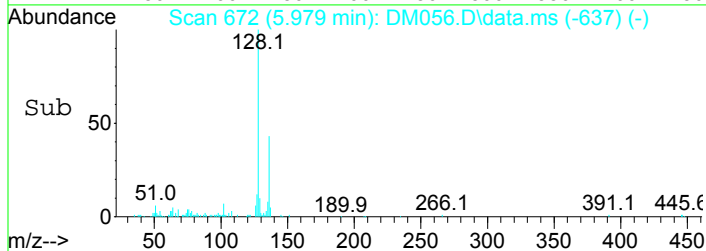
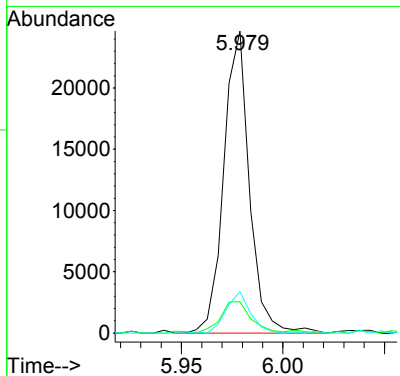
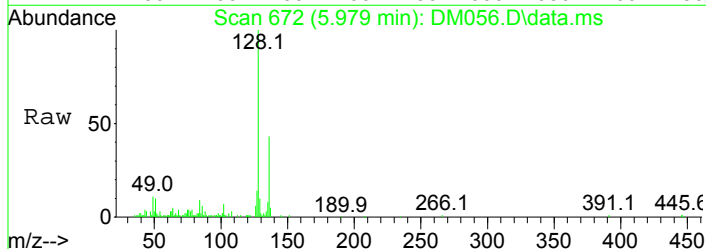
Quant Time: Feb 28 10:48:42 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





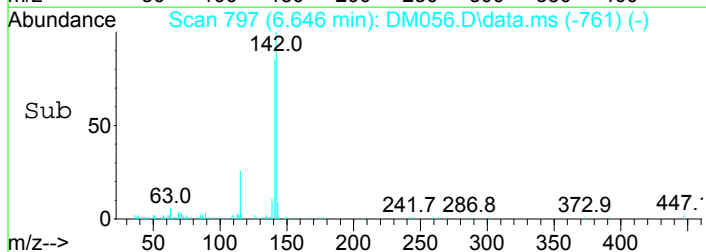
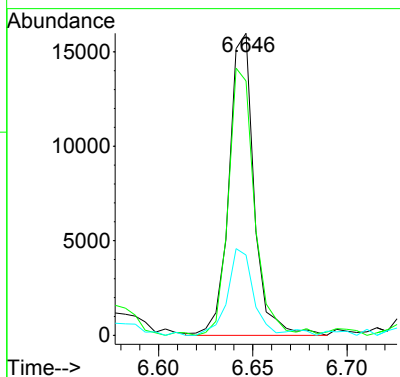
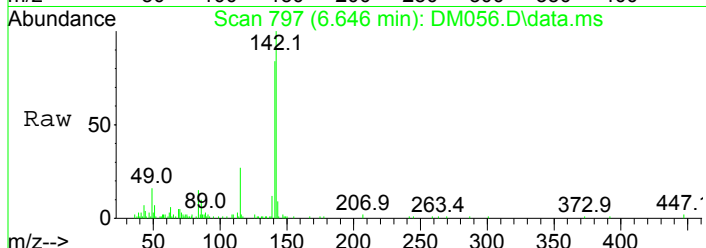
#34  
 Naphthalene  
 Concen: 1.23 ppm  
 RT: 5.979 min Scan# 672  
 Delta R.T. -0.011 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

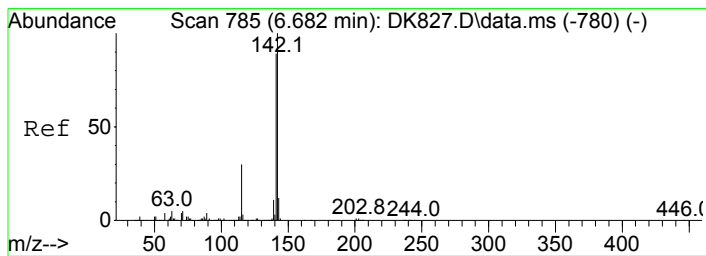
Tgt Ion	Resp	Lower	Upper
128	21647		
129	10.1	0.0	31.3
127	13.7	0.0	33.1



#40  
 2-Methylnaphthalene  
 Concen: 1.31 ppm  
 RT: 6.646 min Scan# 797  
 Delta R.T. -0.009 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

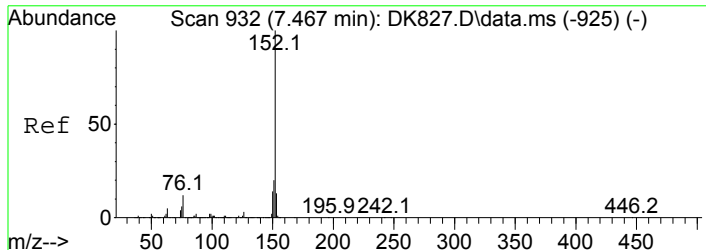
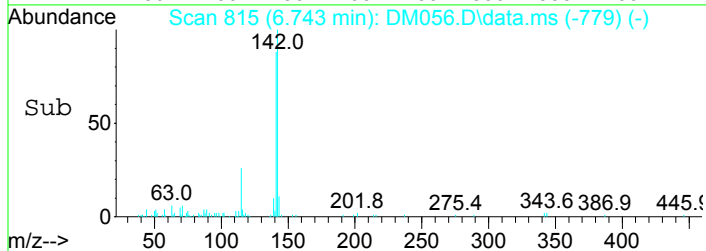
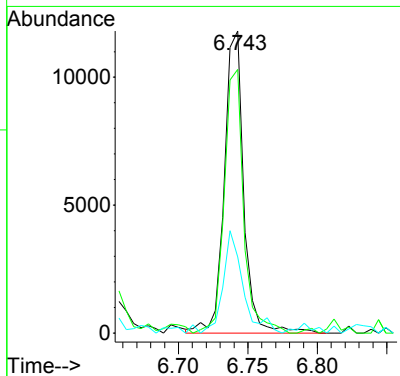
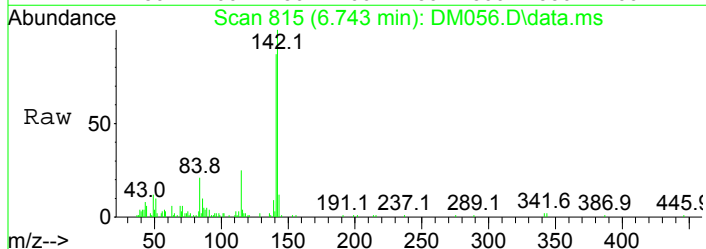
Tgt Ion	Resp	Lower	Upper
142	14882		
141	83.5	66.0	106.0
115	26.0	8.8	48.8





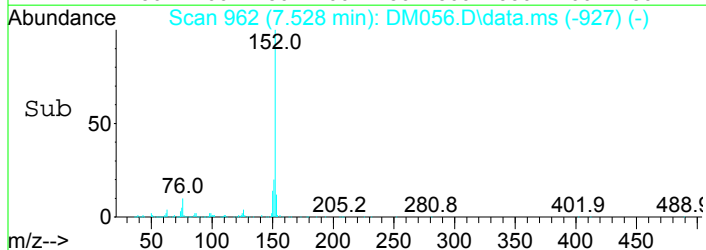
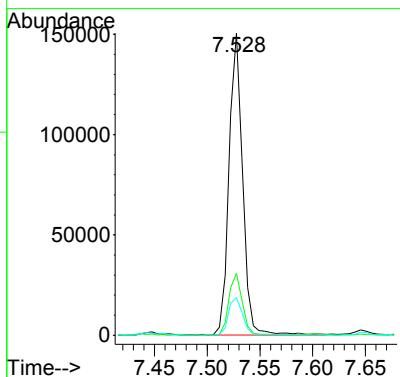
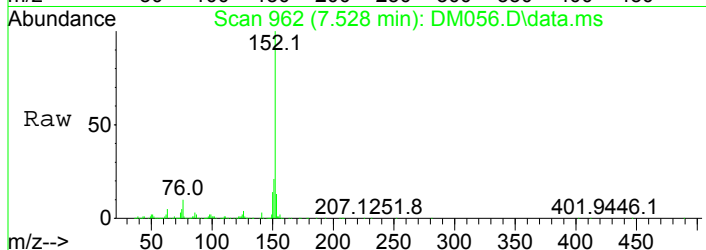
#41  
 1-Methylnaphthalene  
 Concen: 1.08 ppm  
 RT: 6.743 min Scan# 815  
 Delta R.T. -0.009 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

Tgt Ion	Resp	Lower	Upper
142	11487		
141	86.1	61.6	121.6
115	25.3	1.0	61.0

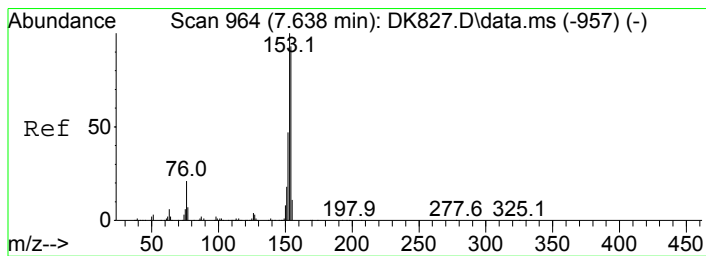


#52  
 Acenaphthylene  
 Concen: 8.30 ppm  
 RT: 7.528 min Scan# 962  
 Delta R.T. -0.012 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

Tgt Ion	Resp	Lower	Upper
152	135893		
151	20.5	0.6	40.6
153	12.5	0.0	33.9

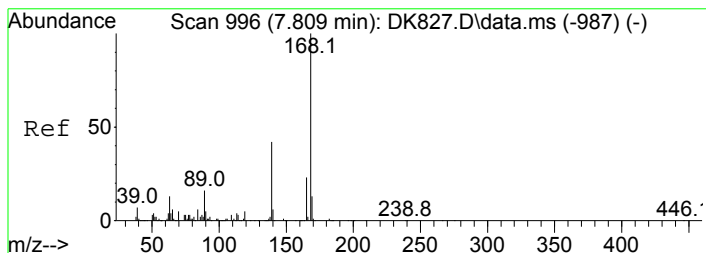
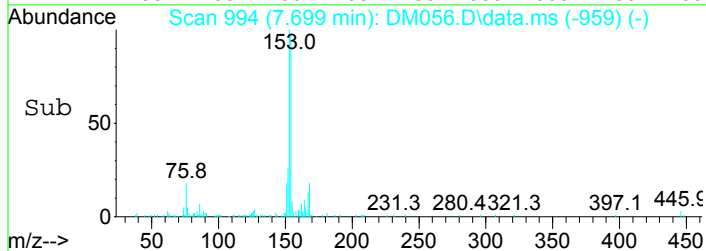
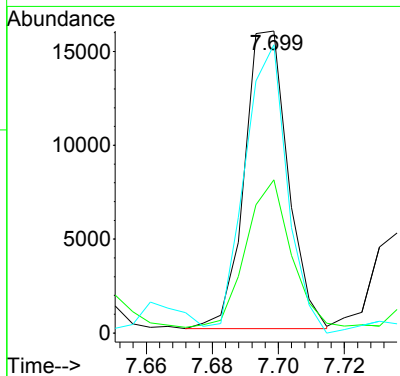
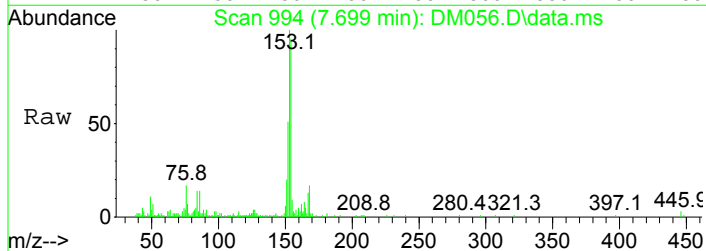






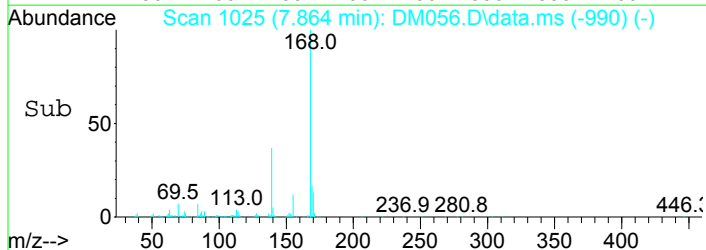
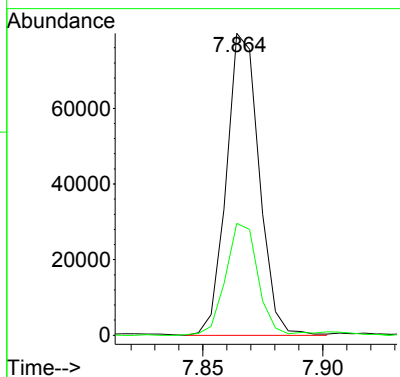
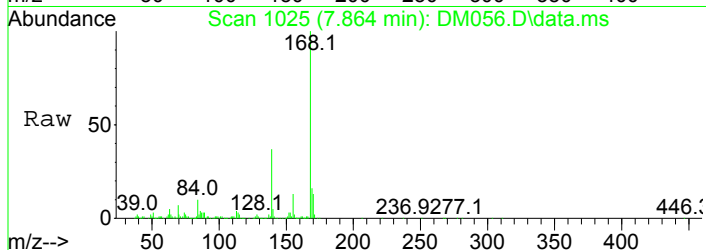
#55  
 Acenaphthene  
 Concen: 1.30 ppm  
 RT: 7.699 min Scan# 994  
 Delta R.T. -0.011 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

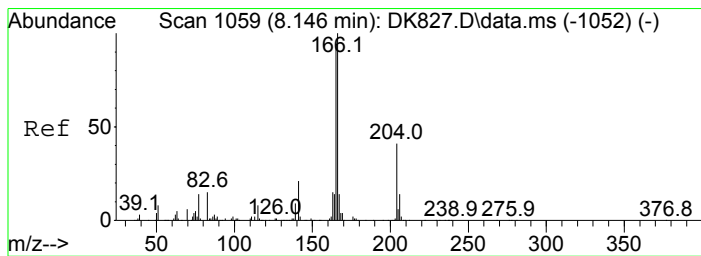
Tgt Ion	Resp	Lower	Upper
153	14525		
152	49.1	28.0	68.0
154	92.9	72.5	112.5



#58  
 Dibenzofuran  
 Concen: 5.47 ppm  
 RT: 7.864 min Scan# 1025  
 Delta R.T. -0.014 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

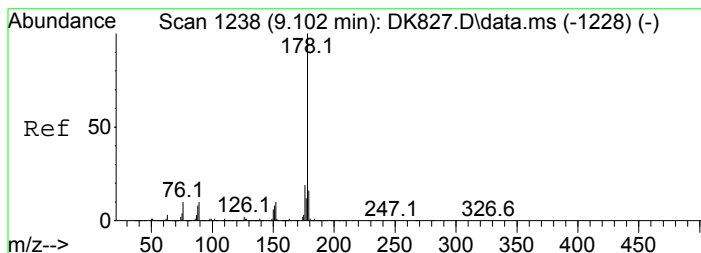
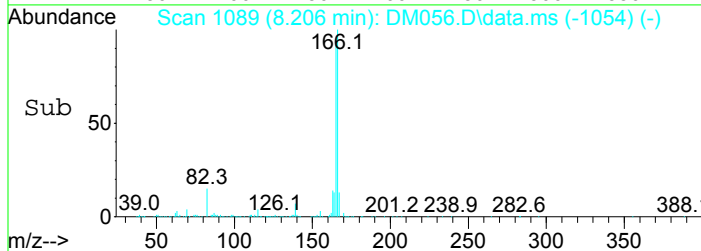
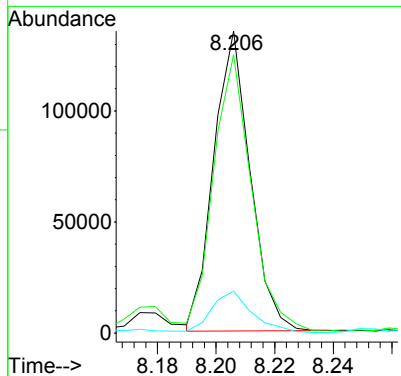
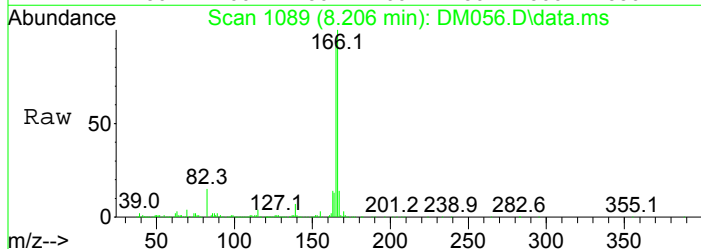
Tgt Ion	Resp	Lower	Upper
168	75643		
139	36.5	14.2	54.2





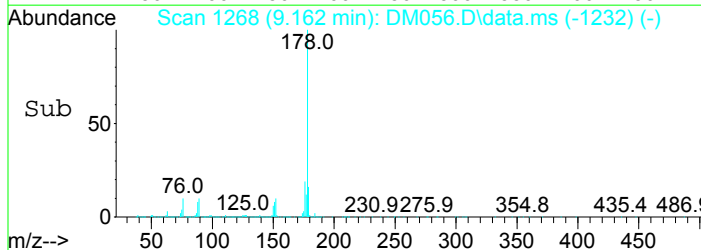
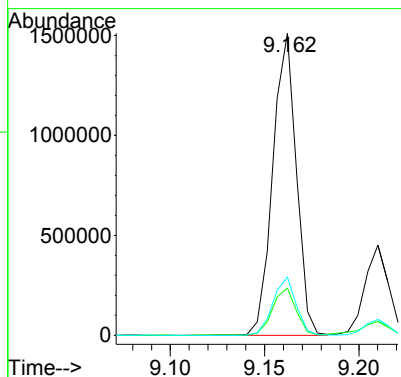
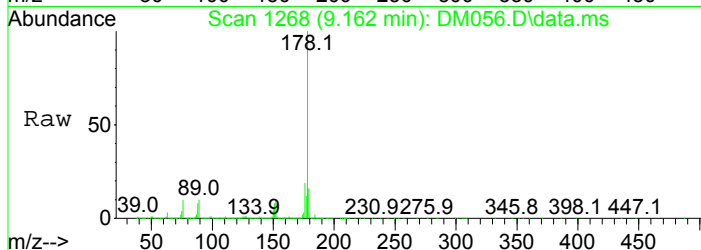
#63  
 Fluorene  
 Concen: 10.22 ppm  
 RT: 8.206 min Scan# 1089  
 Delta R.T. -0.011 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

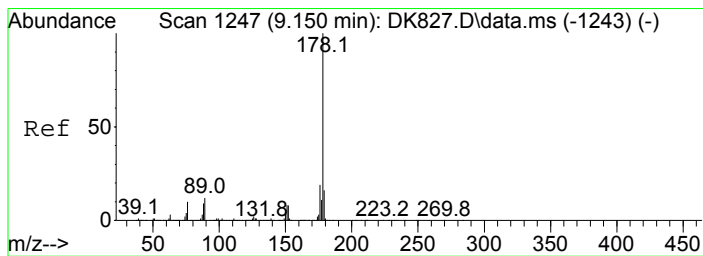
Tgt Ion	Resp	Lower	Upper
166	116715		
165	91.7	62.8	122.8
167	13.8	0.0	43.9



#77  
 Phenanthrene  
 Concen: 84.35 ppm  
 RT: 9.162 min Scan# 1268  
 Delta R.T. -0.008 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

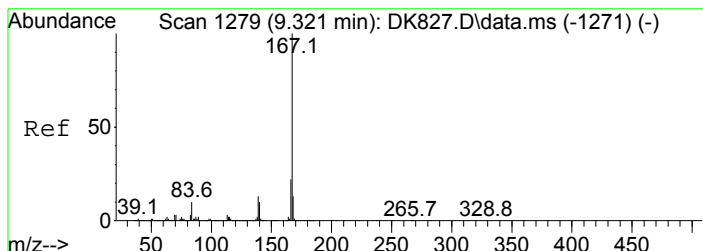
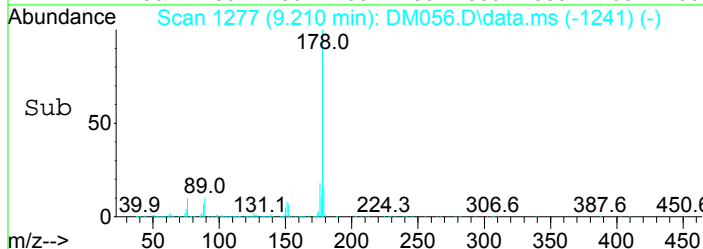
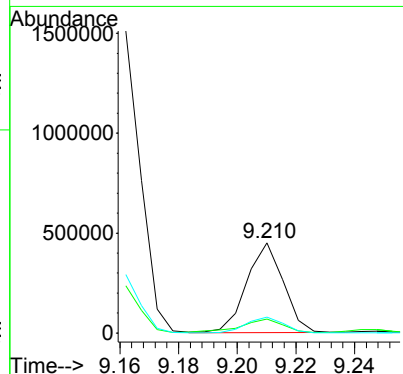
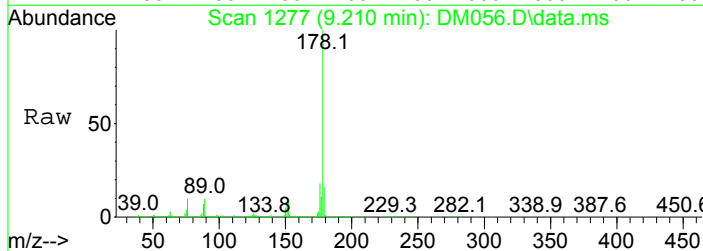
Tgt Ion	Resp	Lower	Upper
178	1308292		
179	15.5	0.0	36.3
176	19.4	0.0	39.7





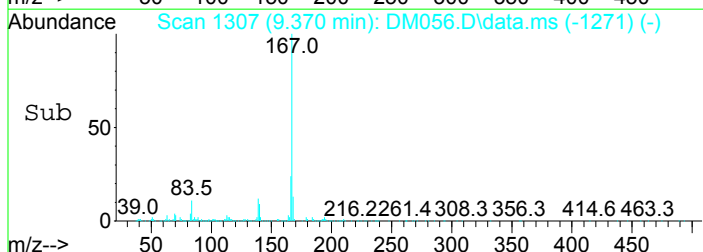
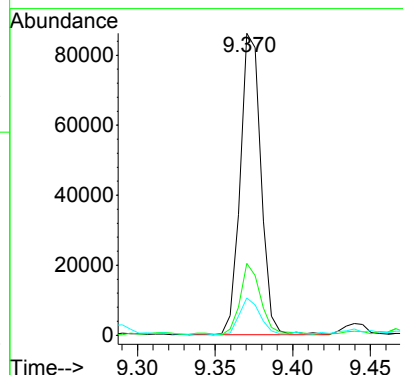
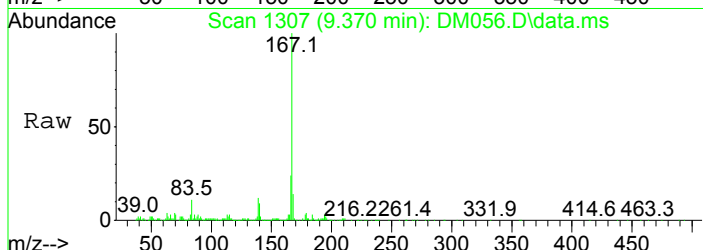
#78  
 Anthracene  
 Concen: 25.36 ppm  
 RT: 9.210 min Scan# 1277  
 Delta R.T. -0.009 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

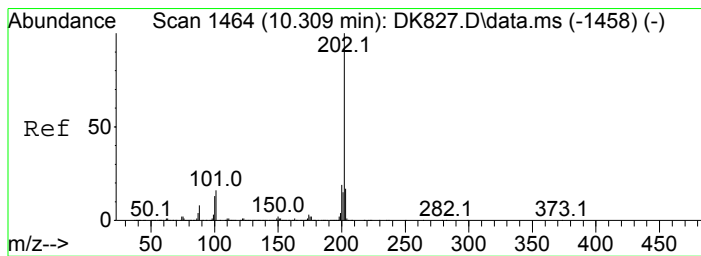
Tgt Ion	Resp	Lower	Upper
178	392434		
179	14.9	0.0	36.2
176	17.7	0.0	39.4



#79  
 Carbazole  
 Concen: 5.02 ppm  
 RT: 9.370 min Scan# 1307  
 Delta R.T. -0.010 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

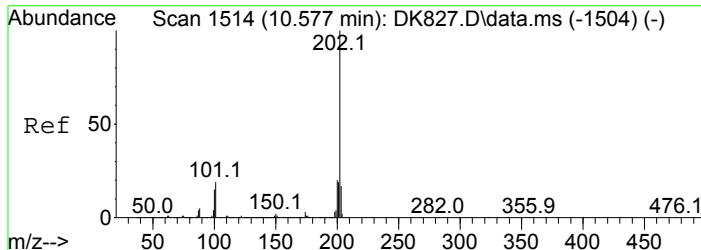
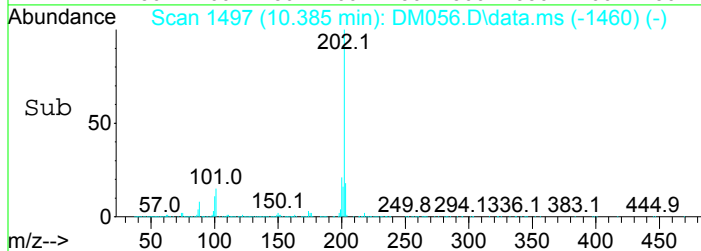
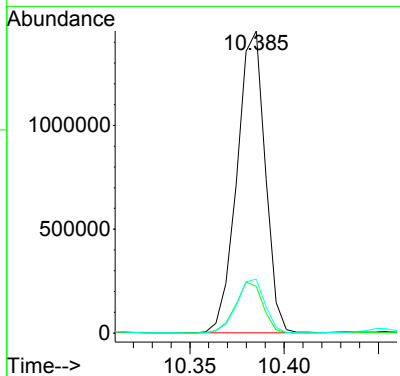
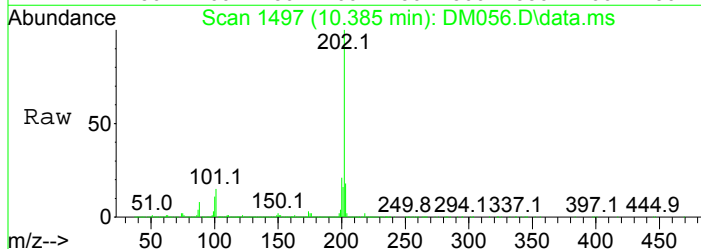
Tgt Ion	Resp	Lower	Upper
167	80254		
166	23.5	1.7	41.7
139	11.9	0.0	32.8





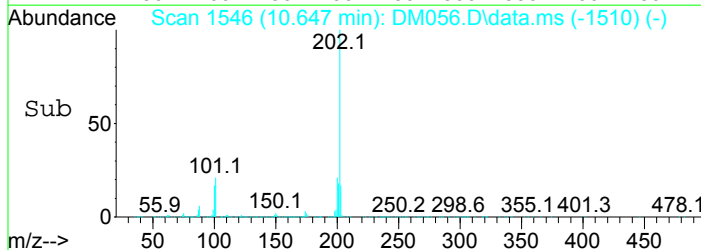
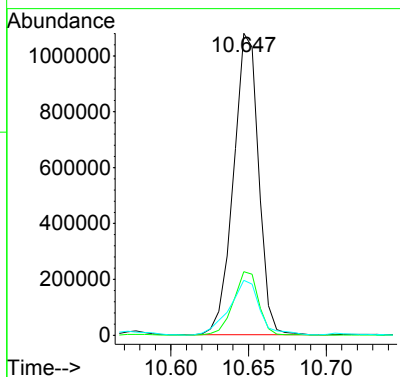
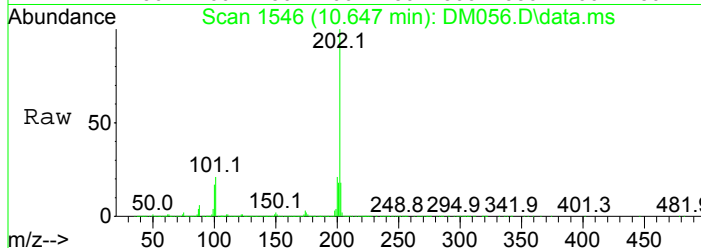
#81  
 Fluoranthene  
 Concen: 95.44 ppm  
 RT: 10.385 min Scan# 1497  
 Delta R.T. -0.004 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

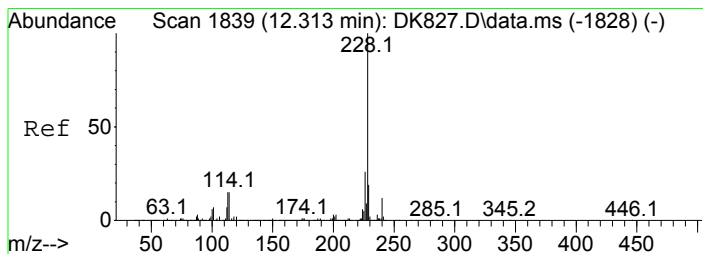
Tgt Ion	Resp	Lower	Upper
202	1513065		
101	15.4	0.0	35.1
203	17.8	0.0	37.7



#84  
 Pyrene  
 Concen: 76.81 ppm  
 RT: 10.647 min Scan# 1546  
 Delta R.T. -0.009 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

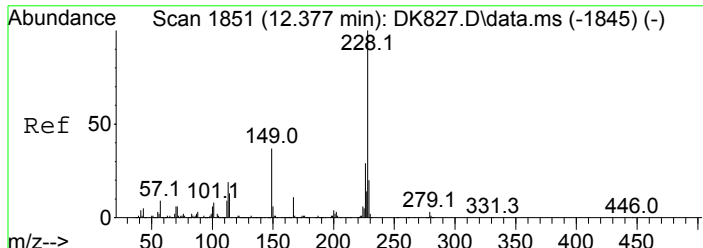
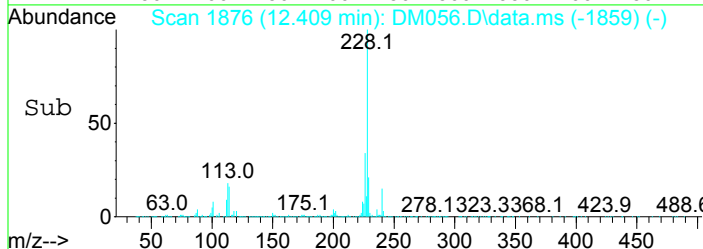
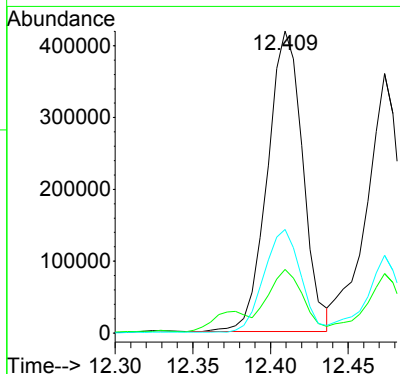
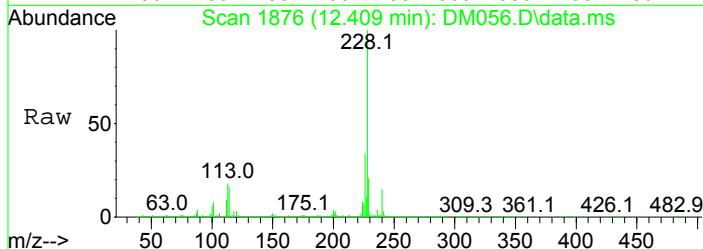
Tgt Ion	Resp	Lower	Upper
202	1213346		
200	21.0	1.7	41.7
203	18.0	0.0	37.6





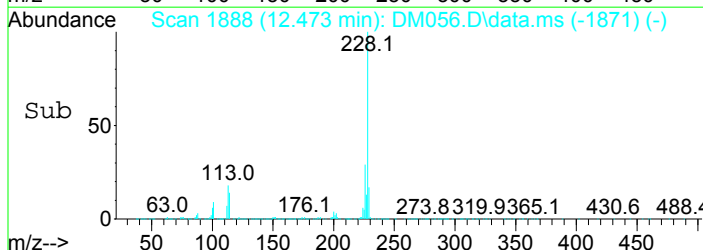
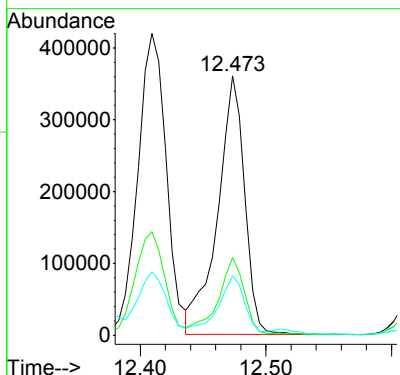
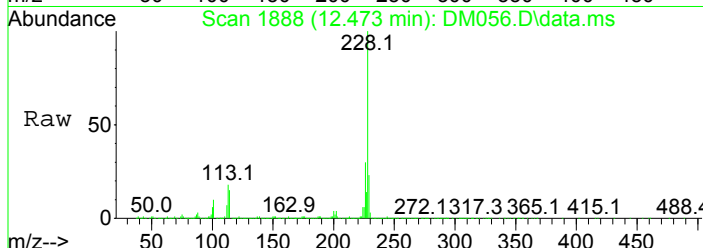
#88  
 Benzo(a)anthracene  
 Concen: 44.32 ppm  
 RT: 12.409 min Scan# 1876  
 Delta R.T. -0.008 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

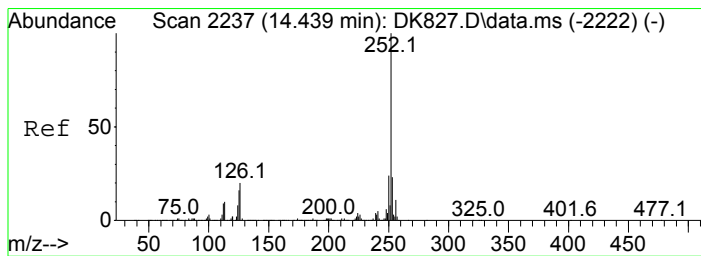
Tgt Ion	Resp	Lower	Upper
228	662693		
229	20.6	0.0	39.4
226	34.4	7.9	47.9



#89  
 Chrysene  
 Concen: 38.43 ppm  
 RT: 12.473 min Scan# 1888  
 Delta R.T. -0.009 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

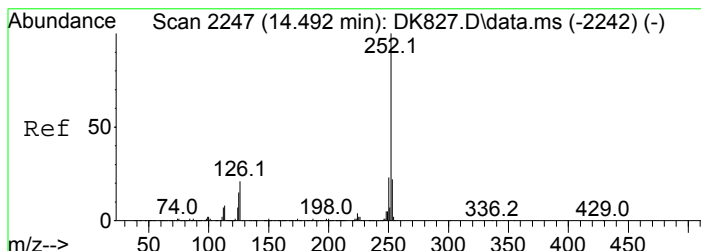
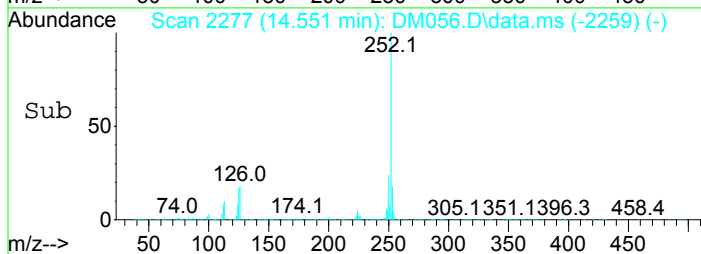
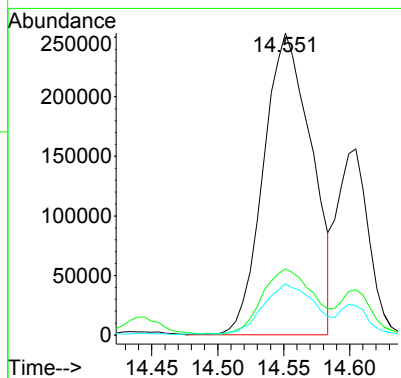
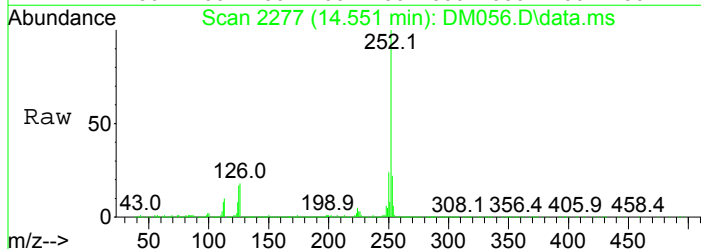
Tgt Ion	Resp	Lower	Upper
228	537366		
226	29.8	9.9	49.9
229	22.6	0.0	39.5





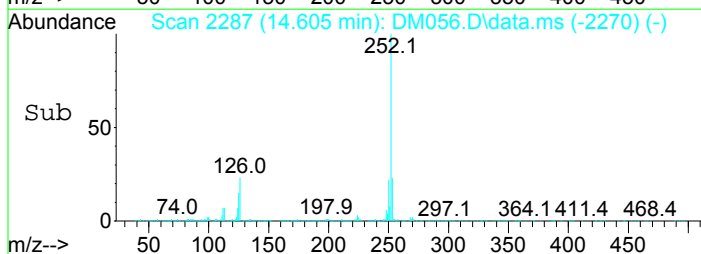
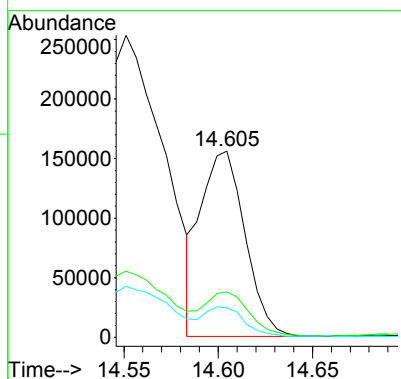
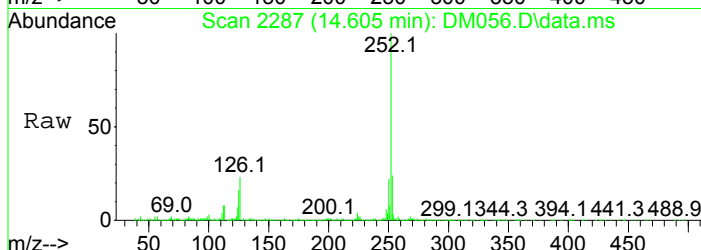
#93  
 Benzo(b)Fluoranthene  
 Concen: 39.89 ppm  
 RT: 14.551 min Scan# 2277  
 Delta R.T. -0.003 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

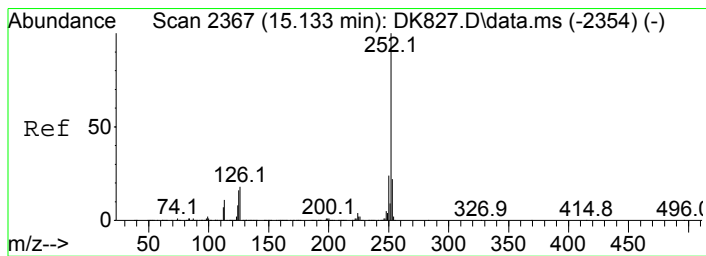
Tgt Ion	Resp	Lower	Upper
252	100		
253	20.7	4.1	44.1
125	16.5	0.0	37.3



#94  
 Benzo(k)fluoranthene  
 Concen: 16.72 ppm  
 RT: 14.605 min Scan# 2287  
 Delta R.T. -0.007 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

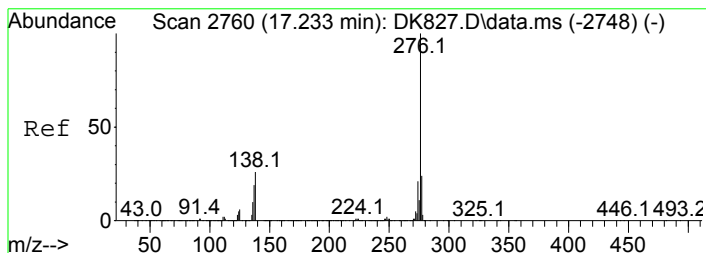
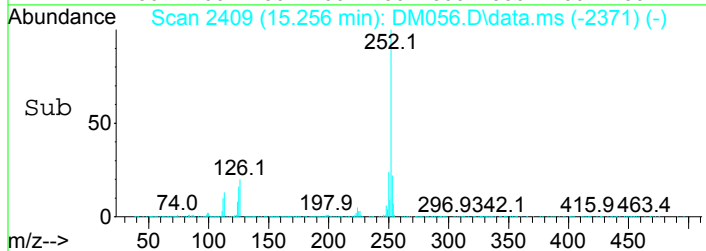
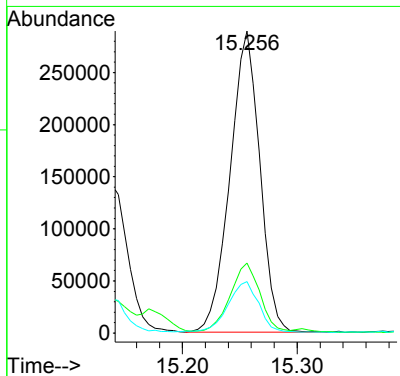
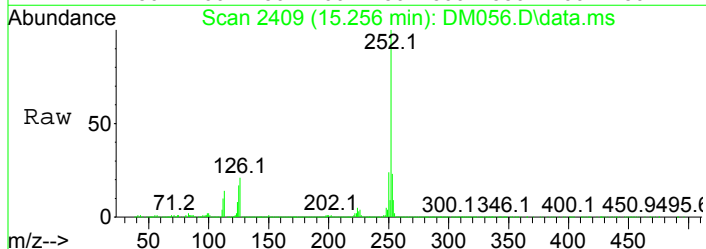
Tgt Ion	Resp	Lower	Upper
252	100		
253	23.4	1.1	41.1
125	14.4	0.0	35.2





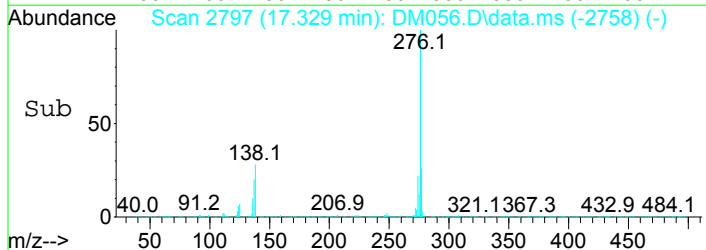
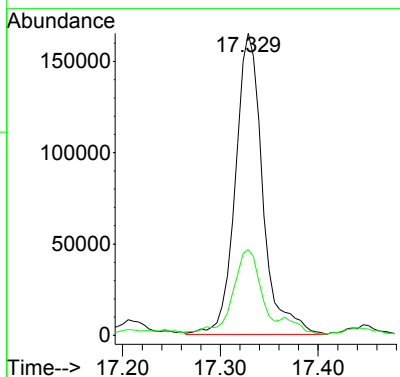
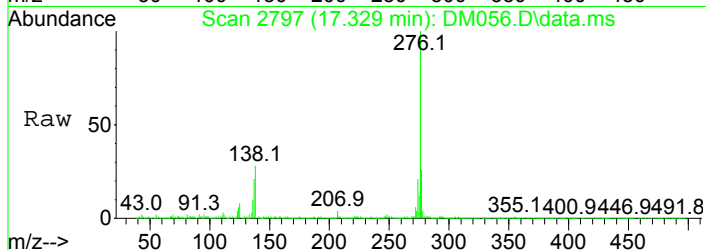
#95  
 Benzo(a)pyrene  
 Concen: 37.77 ppm  
 RT: 15.256 min Scan# 2409  
 Delta R.T. 0.003 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

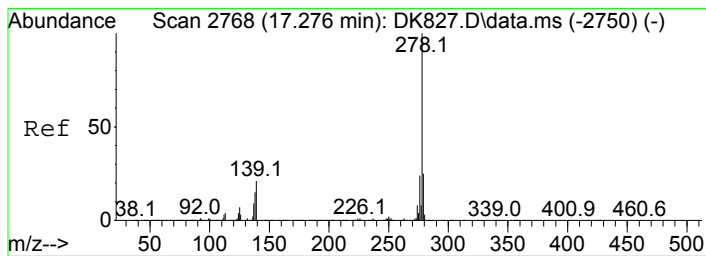
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.6	1.3	41.3
125	16.6	0.0	36.3



#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 24.65 ppm  
 RT: 17.329 min Scan# 2797  
 Delta R.T. 0.007 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

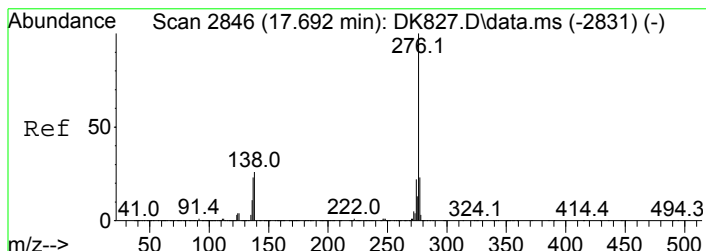
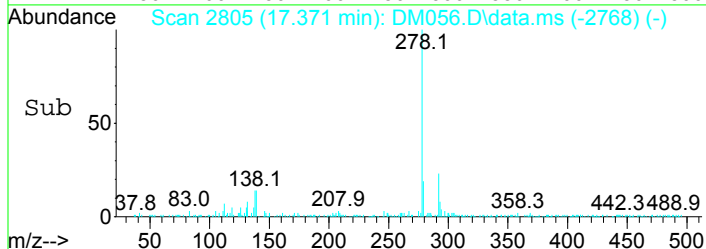
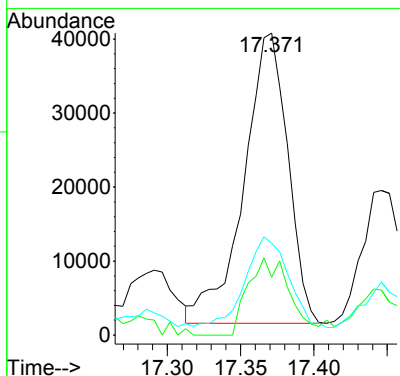
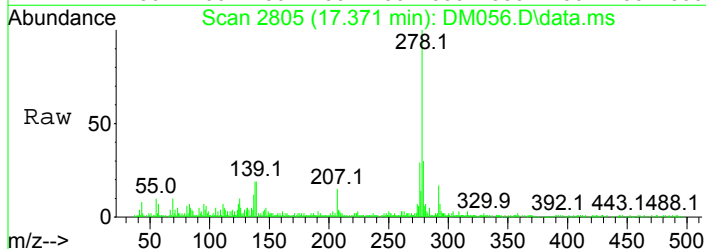
Tgt Ion	Resp	Lower	Upper
276	100		
138	27.3	6.0	46.0





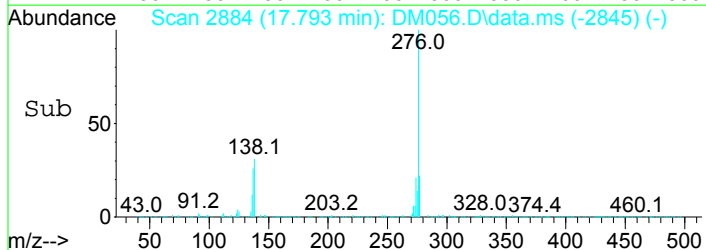
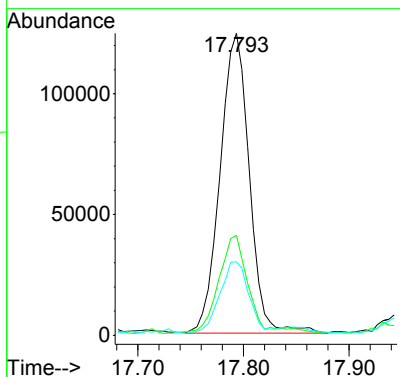
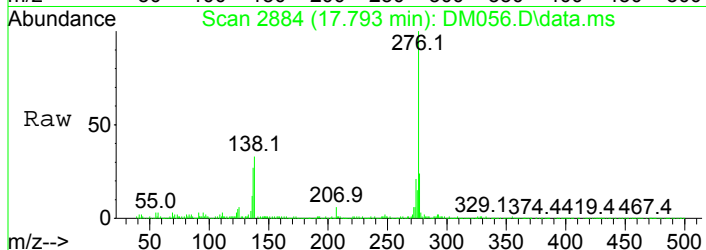
#97  
 Dibenz(a,h)anthracene  
 Concen: 5.79 ppm  
 RT: 17.371 min Scan# 2805  
 Delta R.T. -0.004 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

Tgt Ion	Resp	Lower	Upper
278	81956		
139	16.7	2.6	42.6
279	29.2	4.6	44.6



#98  
 Benzo(g,h,i)perylene  
 Concen: 18.47 ppm  
 RT: 17.793 min Scan# 2884  
 Delta R.T. 0.010 min  
 Lab File: DM056.D  
 Acq: 27 Feb 2018 10:56 am

Tgt Ion	Resp	Lower	Upper
276	239209		
138	32.6	10.9	50.9
277	23.4	4.0	44.0





Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM057.D  
 Acq On : 27 Feb 2018 11:24 am  
 Operator : J.Misiurewicz  
 Sample : R1801453-019|5.0  
 Misc : 308725 8270D SOIL  
 ALS Vial : 7 Sample Multiplier: 1

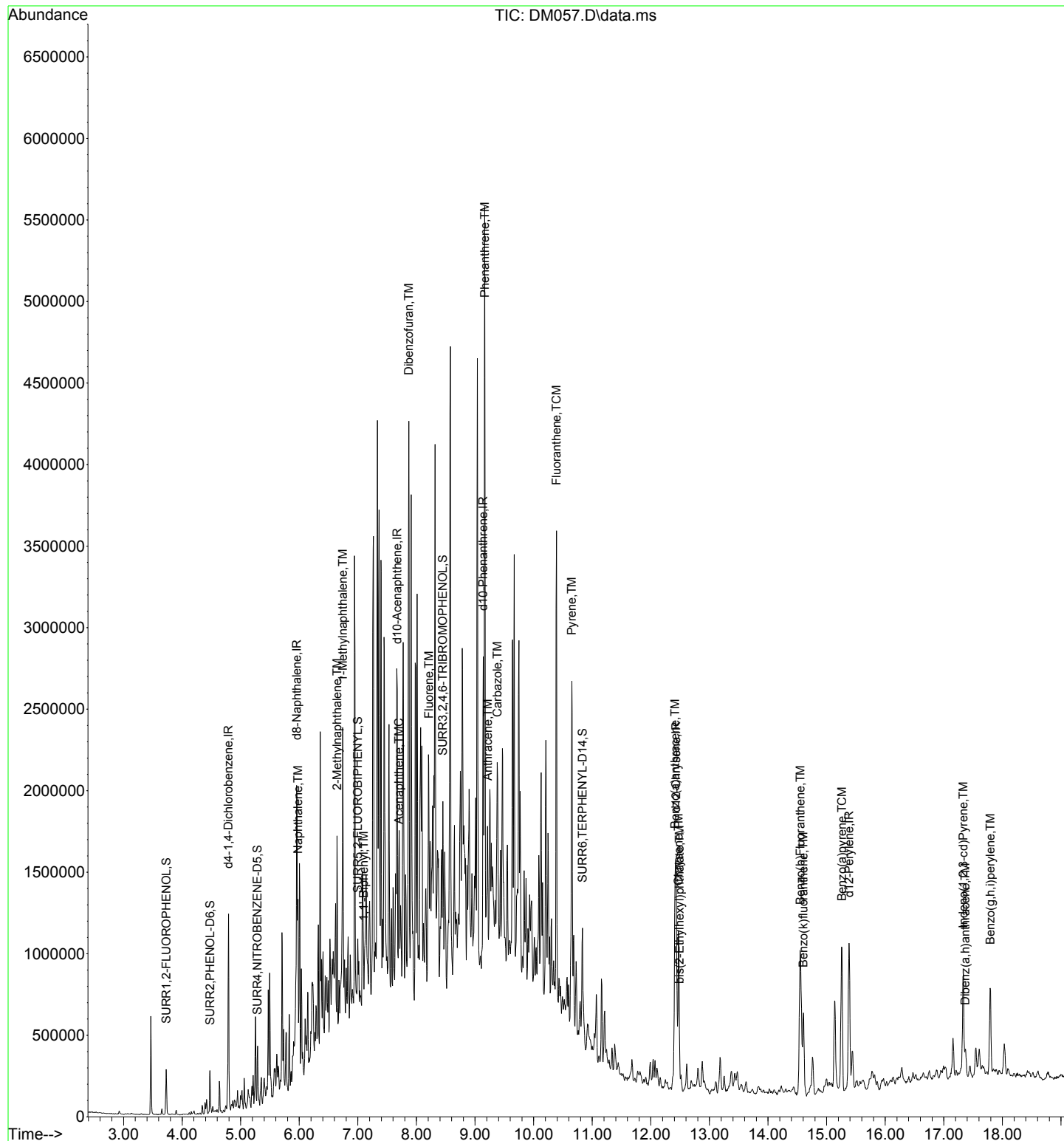
Quant Time: Feb 28 10:48:47 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

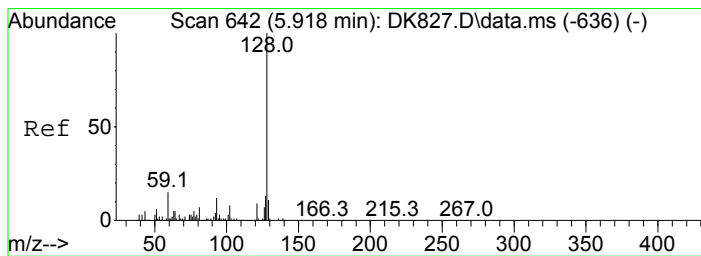
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.791	152	190977	40.00	ppm	-0.01
24) d8-Naphthalene	5.955	136	738484	40.00	ppm	-0.01
42) d10-Acenaphthene	7.670	164	367031	40.00	ppm	0.00
69) d10-Phenanthrene	9.139	188	622759	40.00	ppm	0.00
82) d12-Chrysene	12.429	240	565745	40.00	ppm	0.00
91) d12-Perylene	15.382	264	592589	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.728	112	77742	12.57	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	6.29%#		
8) SURR2,PHENOL-D6	4.476	99	119517	15.59	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	7.80%#		
25) SURR4,NITROBENZENE-D5	5.283	82	42794	7.88	ppm	-0.01
Spiked Amount 100.000	Range 11	- 91	Recovery =	7.88%#		
48) SURR5,2-FLUOROBIPHENYL	6.997	172	141276	10.89	ppm	-0.01
Spiked Amount 100.000	Range 14	- 102	Recovery =	10.89%#		
67) SURR3,2,4,6-TRIBROMOPH...	8.450	330	56297	32.16	ppm	0.00
Spiked Amount 200.000	Range 10	- 109	Recovery =	16.08%		
85) SURR6,TERPHENYL-D14	10.832	244	204307	16.82	ppm	-0.01
Spiked Amount 100.000	Range 16	- 120	Recovery =	16.82%		
<b>Target Compounds</b>						
34) Naphthalene	5.977	128	246817	13.448	ppm	98
40) 2-Methylnaphthalene	6.644	142	322830	27.319	ppm	98
41) 1-Methylnaphthalene	6.741	142	499737	45.281	ppm	98
49) 1,1'-Biphenyl	7.098	154	33923	2.298	ppm	97
55) Acenaphthene	7.697	153	160860	13.195	ppm	95
58) Dibenzofuran	7.868	168	141809	9.415	ppm	67
63) Fluorene	8.209	166	278668	22.400	ppm	98
77) Phenanthrene	9.165	178	1631542	99.825	ppm	99
78) Anthracene	9.214	178	308401	18.913	ppm	89
79) Carbazole	9.379	167	163146	9.680	ppm	100
81) Fluoranthene	10.389	202	1156999	69.252	ppm	98
84) Pyrene	10.650	202	1032385	61.676	ppm	97
88) Benzo(a)anthracene	12.413	228	610838	38.548	ppm	99
89) Chrysene	12.472	228	553842	37.377	ppm	97
90) bis(2-Ethylhexyl)phtha...	12.488	149	61839	5.082	ppm	99
93) Benzo(b)Fluoranthene	14.549	252	812140	48.264	ppm	97
94) Benzo(k)fluoranthene	14.603	252	288310	18.124	ppm	96
95) Benzo(a)pyrene	15.260	252	612125	42.301	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.332	276	409500	30.191	ppm	99
97) Dibenz(a,h)anthracene	17.364	278	113210	7.635	ppm	94
98) Benzo(g,h,i)perylene	17.797	276	364931	26.899	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM057.D  
Acq On : 27 Feb 2018 11:24 am  
Operator : J.Misiurewicz  
Sample : R1801453-019|5.0  
Misc : 308725 8270D SOIL  
ALS Vial : 7 Sample Multiplier: 1

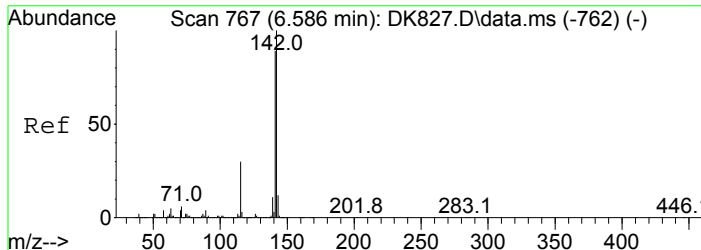
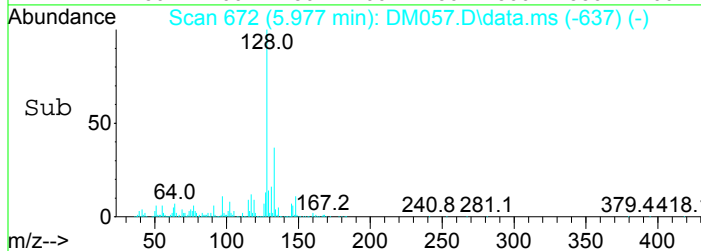
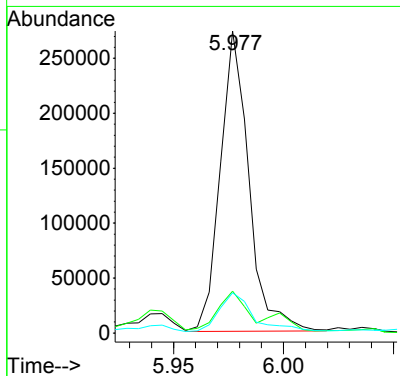
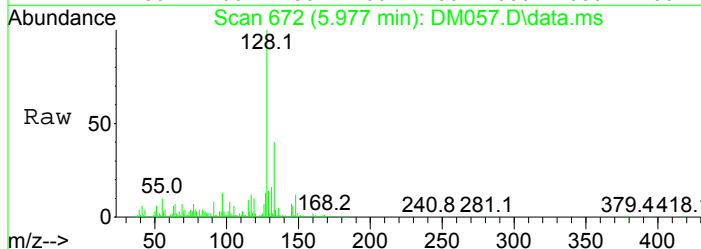
Quant Time: Feb 28 10:48:47 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





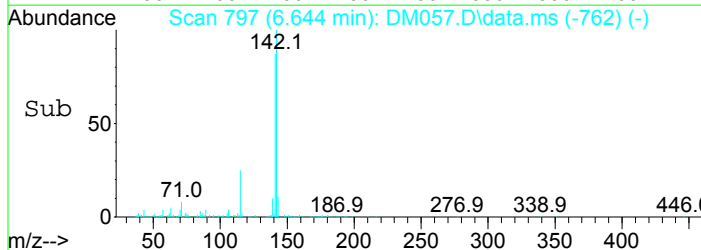
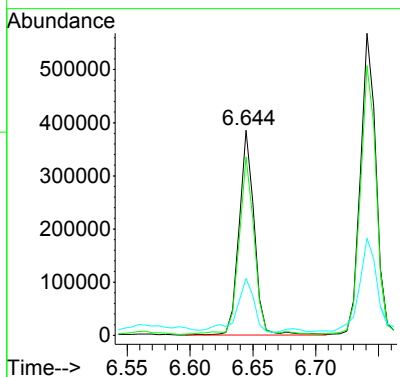
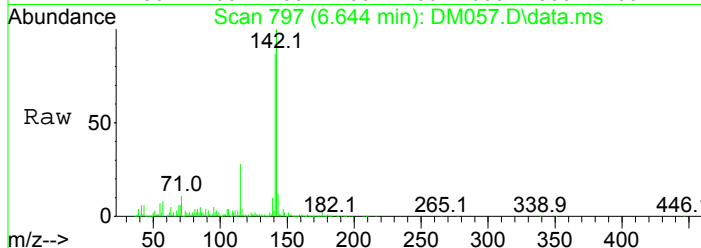
#34  
 Naphthalene  
 Concen: 13.45 ppm  
 RT: 5.977 min Scan# 672  
 Delta R.T. -0.013 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

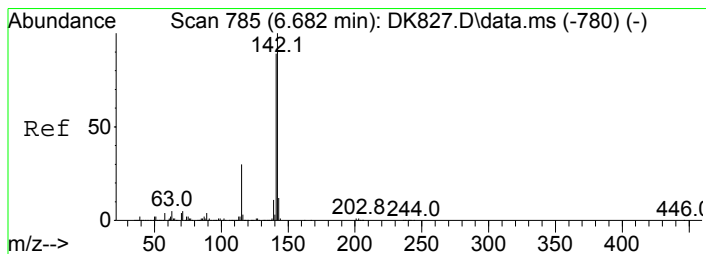
Tgt Ion	Resp	Lower	Upper
128	246817		
129	13.0	0.0	31.3
127	12.9	0.0	33.1



#40  
 2-Methylnaphthalene  
 Concen: 27.32 ppm  
 RT: 6.644 min Scan# 797  
 Delta R.T. -0.011 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

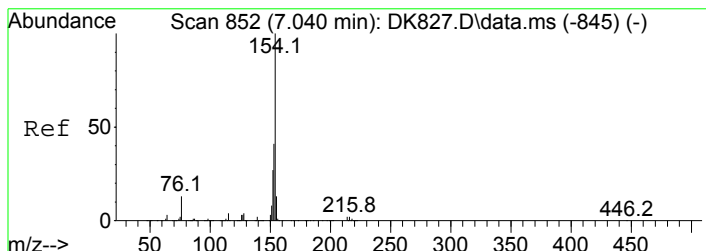
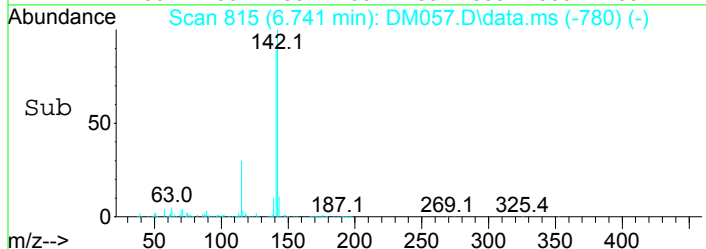
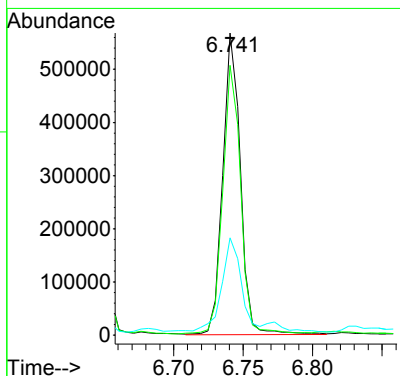
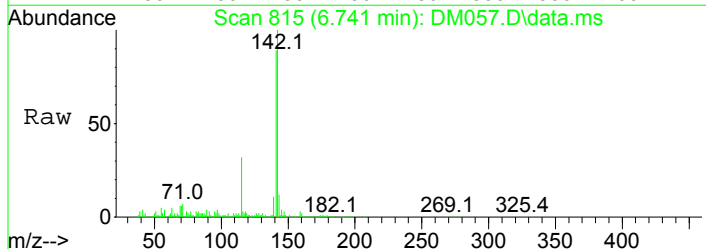
Tgt Ion	Resp	Lower	Upper
142	322830		
141	86.6	66.0	106.0
115	25.0	8.8	48.8





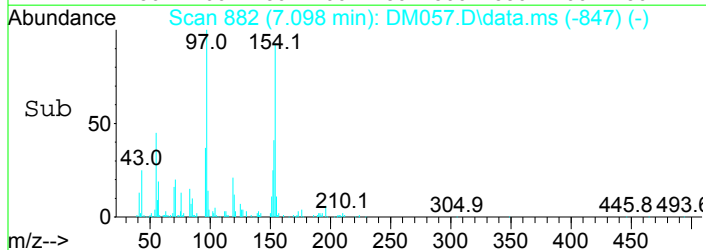
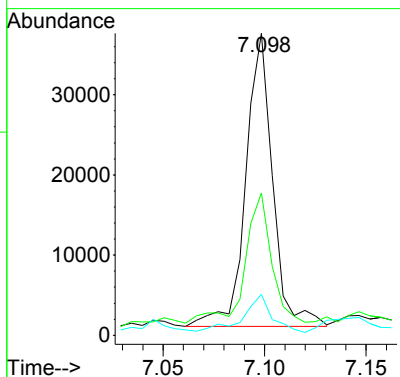
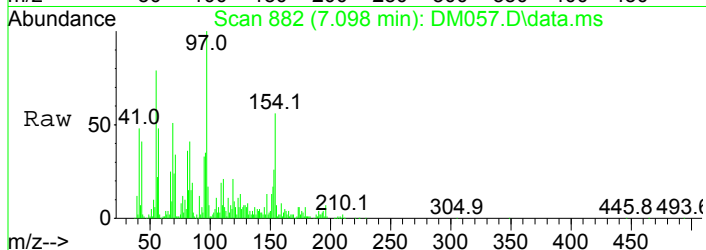
#41  
 1-Methylnaphthalene  
 Concen: 45.28 ppm  
 RT: 6.741 min Scan# 815  
 Delta R.T. -0.011 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

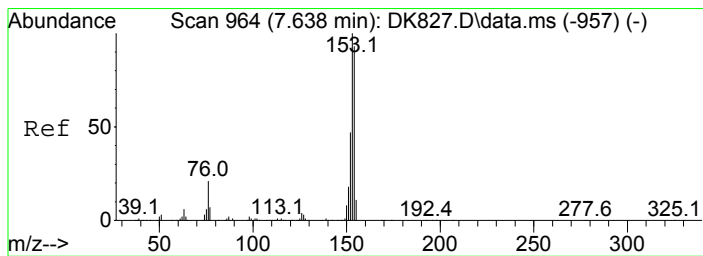
Tgt Ion	Resp	Lower	Upper
142	100		
141	88.8	61.6	121.6
115	31.0	1.0	61.0



#49  
 1,1'-Biphenyl  
 Concen: 2.30 ppm  
 RT: 7.098 min Scan# 882  
 Delta R.T. -0.011 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

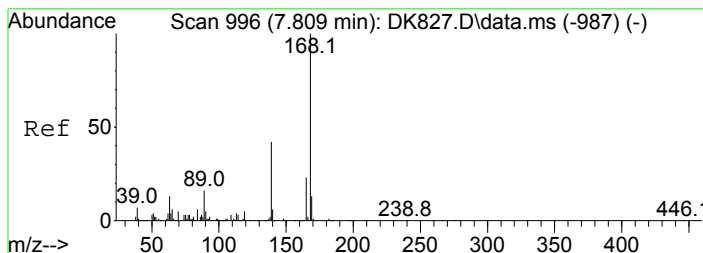
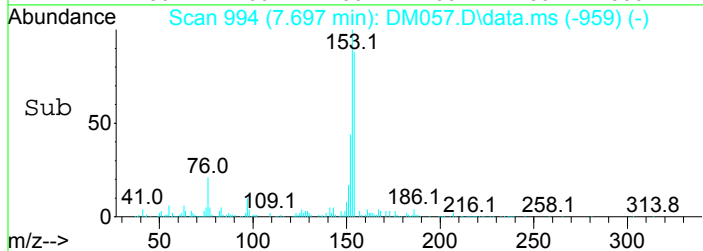
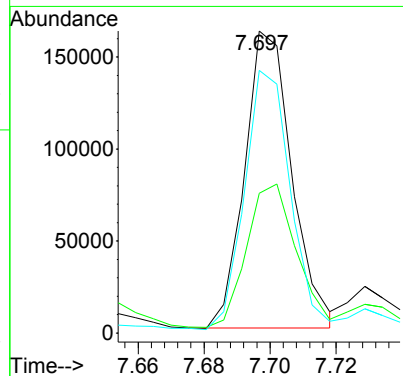
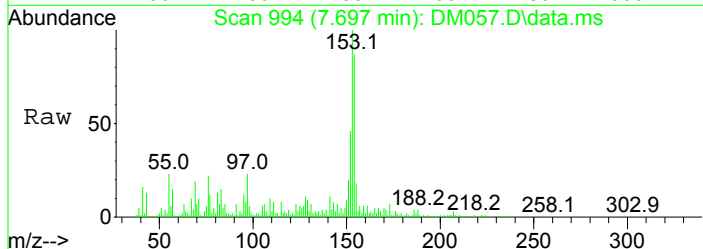
Tgt Ion	Resp	Lower	Upper
154	100		
153	44.5	29.8	55.3
76	12.2	8.9	16.5





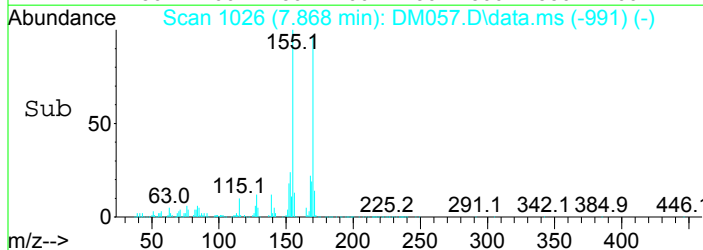
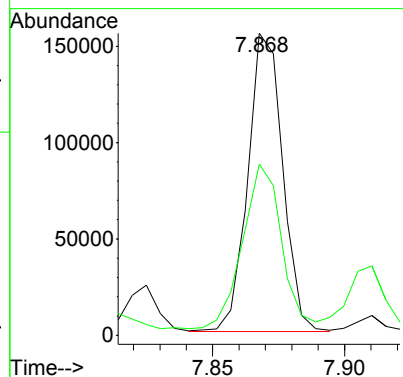
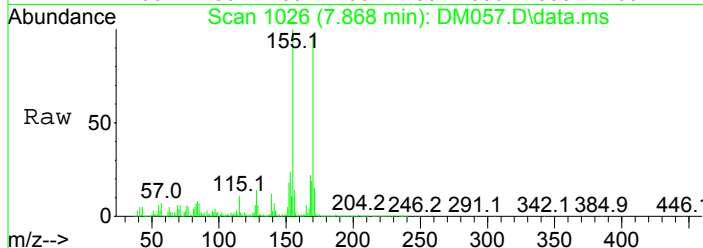
#55  
 Acenaphthene  
 Concen: 13.20 ppm  
 RT: 7.697 min Scan# 994  
 Delta R.T. -0.013 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

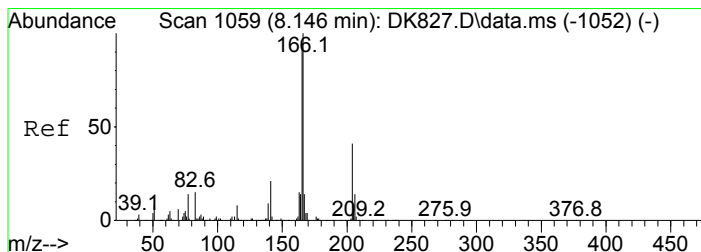
Tgt Ion	Resp	Lower	Upper
153	160860		
152	44.9	28.0	68.0
154	88.0	72.5	112.5



#58  
 Dibenzofuran  
 Concen: 9.42 ppm  
 RT: 7.868 min Scan# 1026  
 Delta R.T. -0.011 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

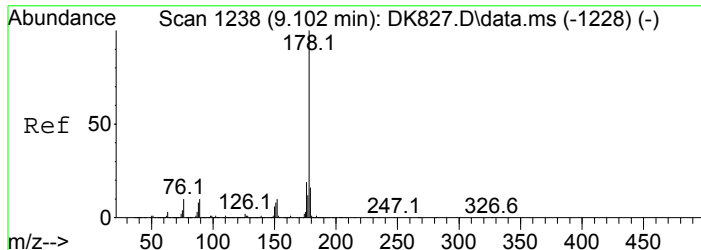
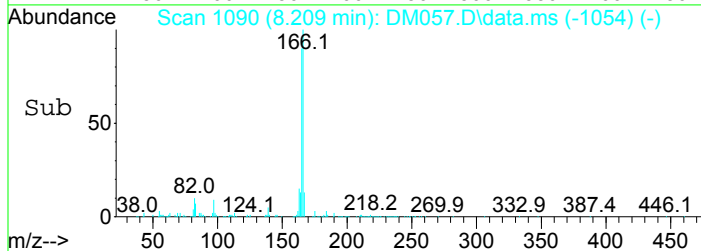
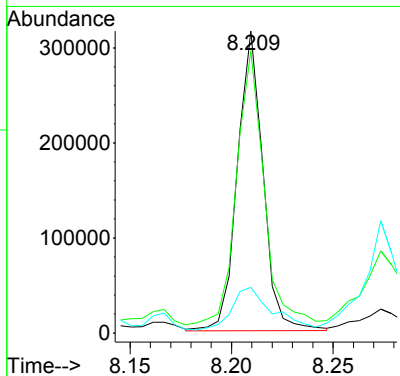
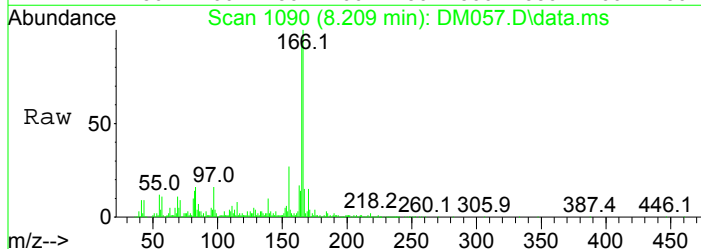
Tgt Ion	Resp	Lower	Upper
168	141809		
139	53.4	14.2	54.2





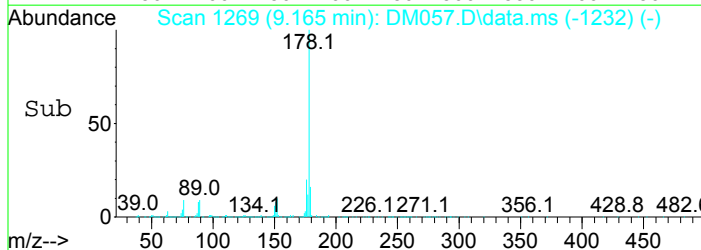
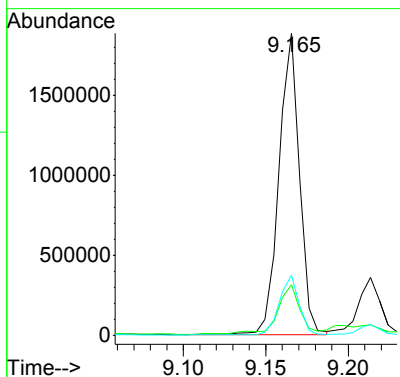
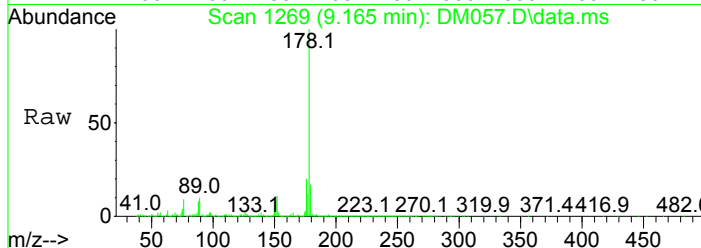
#63  
 Fluorene  
 Concen: 22.40 ppm  
 RT: 8.209 min Scan# 1090  
 Delta R.T. -0.008 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

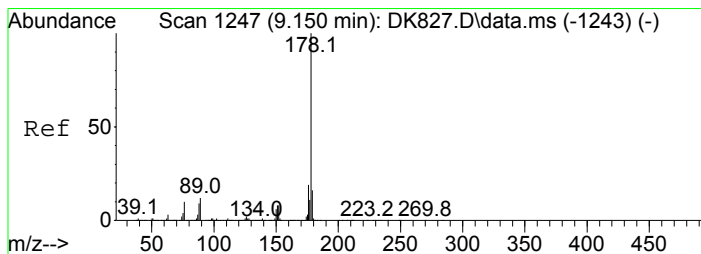
Tgt Ion	Resp	Lower	Upper
166	100		
165	91.3	62.8	122.8
167	13.0	0.0	43.9



#77  
 Phenanthrene  
 Concen: 99.82 ppm  
 RT: 9.165 min Scan# 1269  
 Delta R.T. -0.004 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

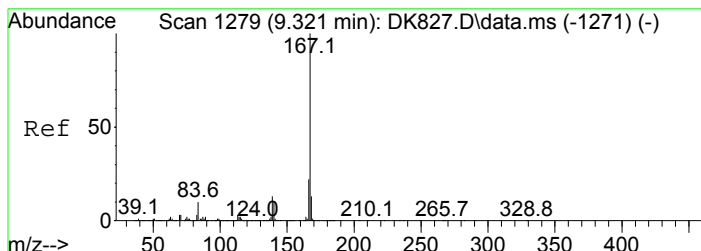
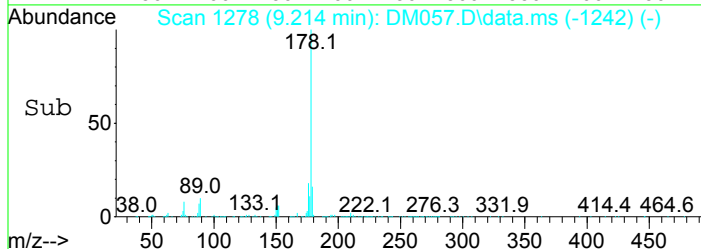
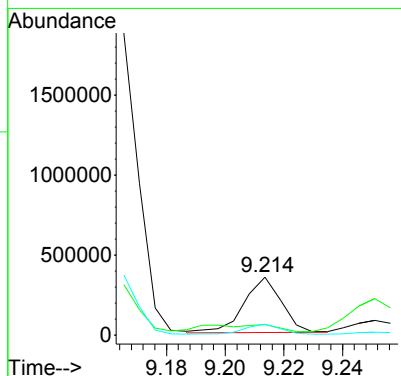
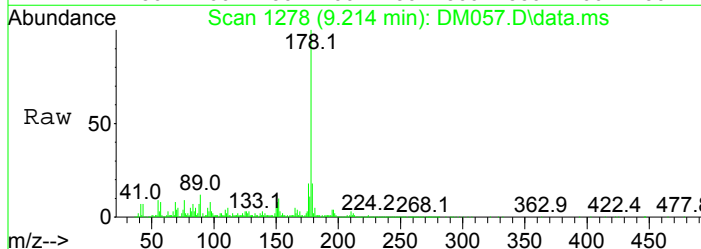
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.8	0.0	36.3
176	19.9	0.0	39.7





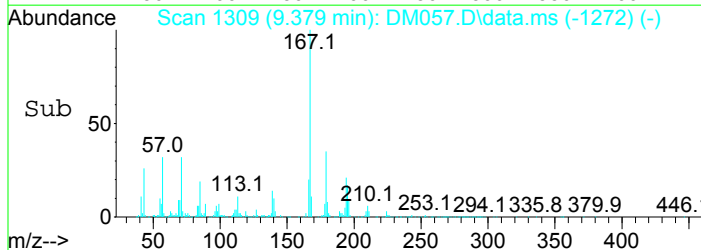
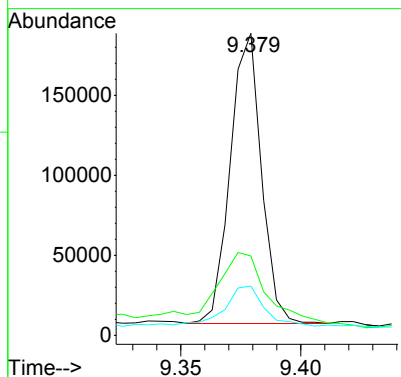
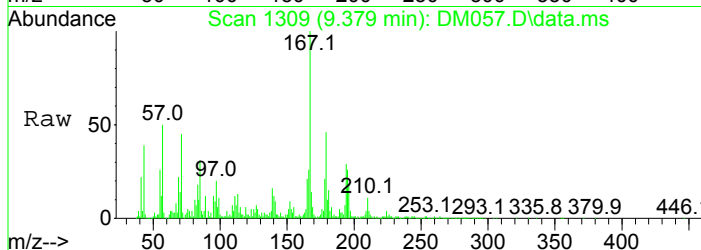
#78  
 Anthracene  
 Concen: 18.91 ppm  
 RT: 9.214 min Scan# 1278  
 Delta R.T. -0.006 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

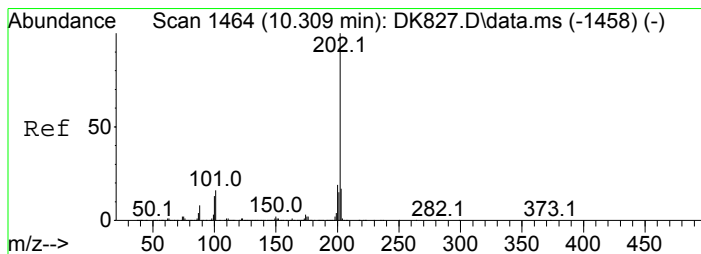
Tgt Ion	Resp	Lower	Upper
178	308401		
179	7.5	0.0	36.2
176	17.9	0.0	39.4



#79  
 Carbazole  
 Concen: 9.68 ppm  
 RT: 9.379 min Scan# 1309  
 Delta R.T. -0.001 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

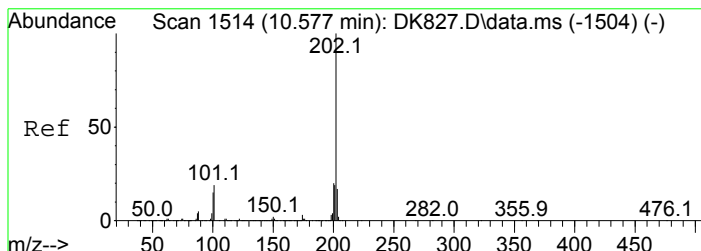
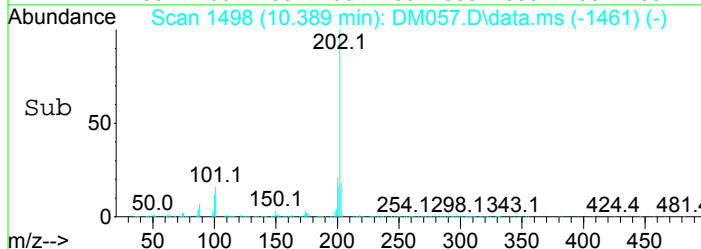
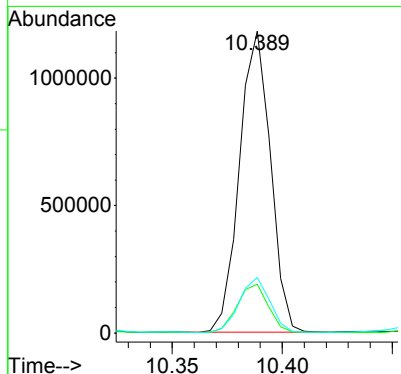
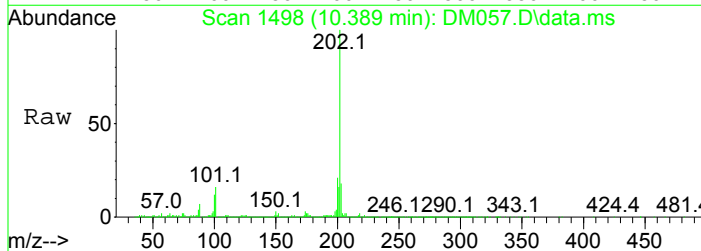
Tgt Ion	Resp	Lower	Upper
167	163146		
166	21.6	1.7	41.7
139	13.0	0.0	32.8





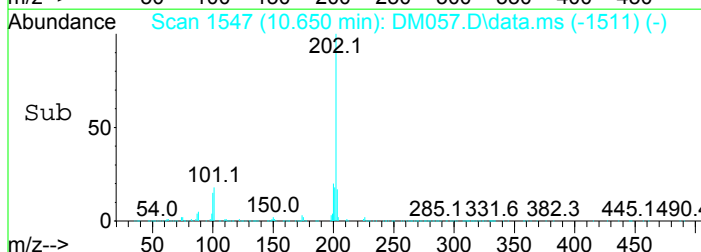
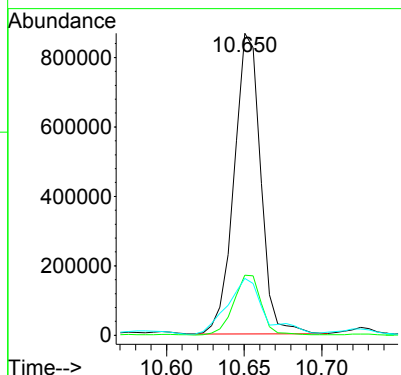
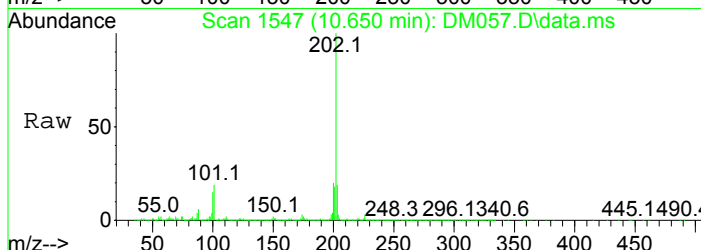
#81  
 Fluoranthene  
 Concen: 69.25 ppm  
 RT: 10.389 min Scan# 1498  
 Delta R.T. -0.001 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

Tgt Ion	Resp	Lower	Upper
202	1156999		
101	16.1	0.0	35.1
203	18.2	0.0	37.7

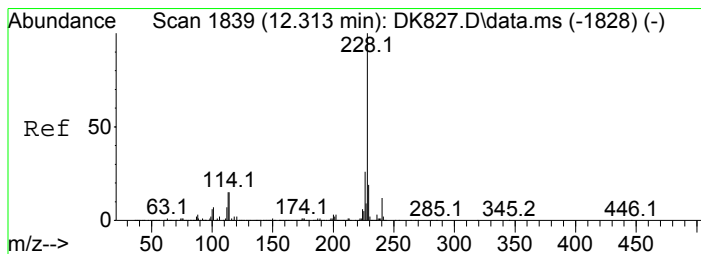


#84  
 Pyrene  
 Concen: 61.68 ppm  
 RT: 10.650 min Scan# 1547  
 Delta R.T. -0.006 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

Tgt Ion	Resp	Lower	Upper
202	1032385		
200	19.8	1.7	41.7
203	18.2	0.0	37.6

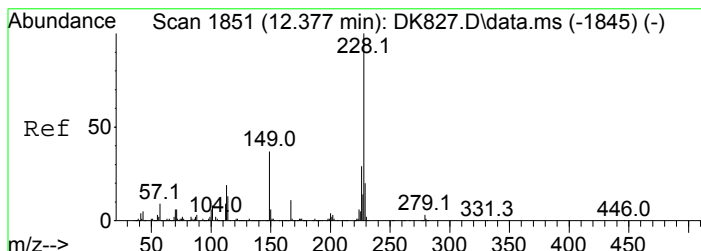
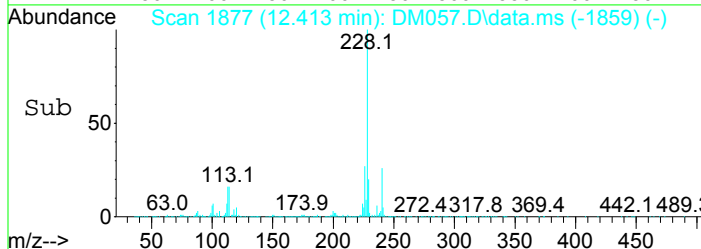
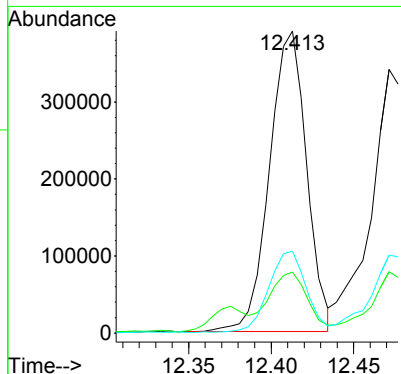
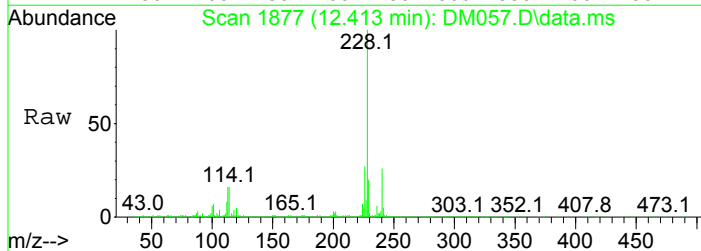






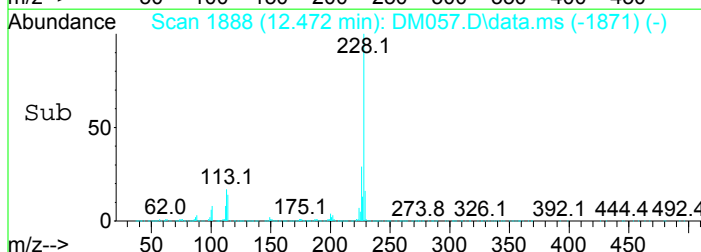
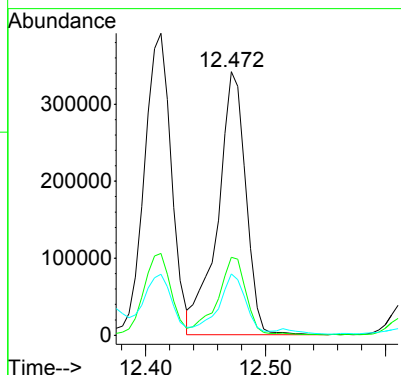
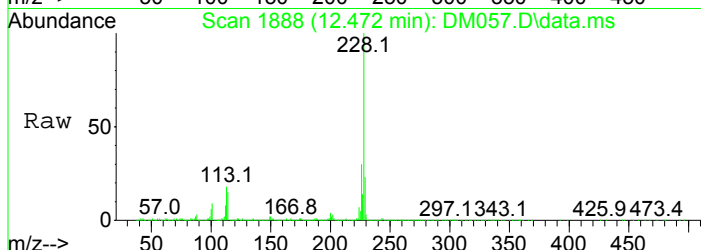
#88  
 Benzo(a)anthracene  
 Concen: 38.55 ppm  
 RT: 12.413 min Scan# 1877  
 Delta R.T. -0.005 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

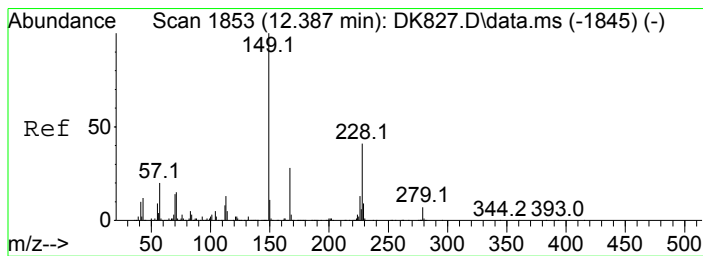
Tgt Ion	Resp	Lower	Upper
228	610838		
229	19.4	0.0	39.4
226	27.0	7.9	47.9



#89  
 Chrysene  
 Concen: 37.38 ppm  
 RT: 12.472 min Scan# 1888  
 Delta R.T. -0.011 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

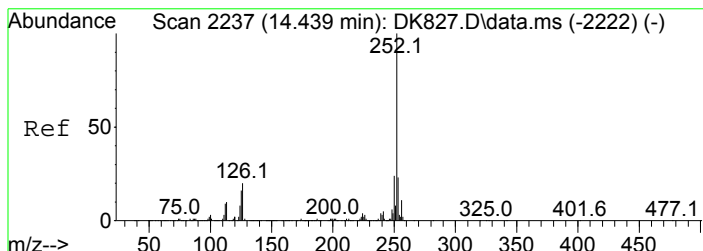
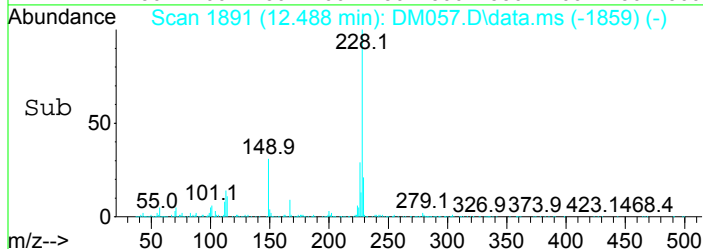
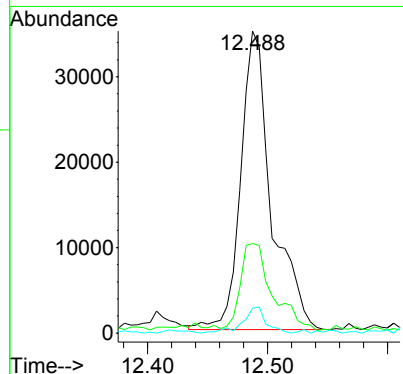
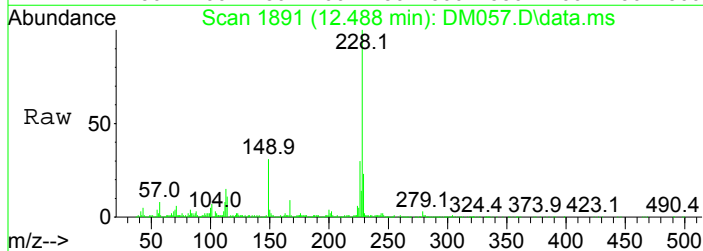
Tgt Ion	Resp	Lower	Upper
228	553842		
226	29.6	9.9	49.9
229	22.7	0.0	39.5





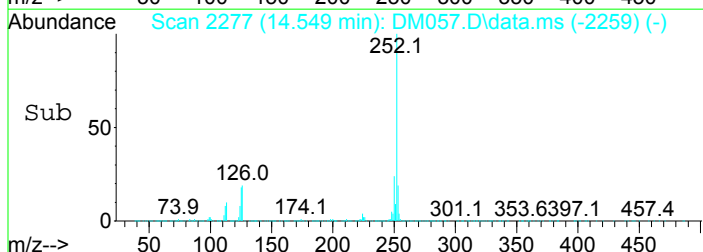
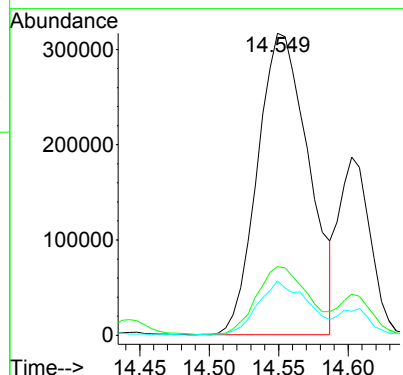
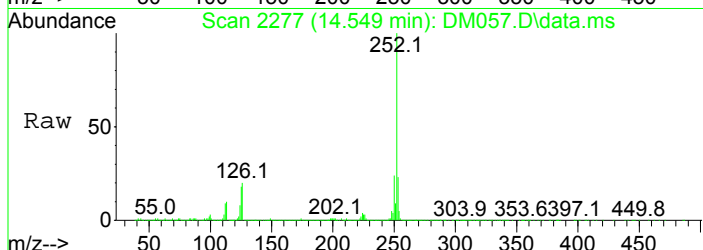
#90  
 bis(2-Ethylhexyl)phthalate  
 Concen: 5.08 ppm  
 RT: 12.488 min Scan# 1891  
 Delta R.T. -0.030 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

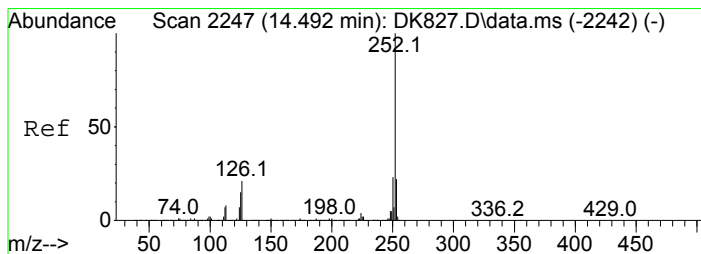
Tgt Ion	Resp	Lower	Upper
149	61839		
149	100		
167	28.4	9.1	49.1
279	7.5	0.0	26.9



#93  
 Benzo(b)Fluoranthene  
 Concen: 48.26 ppm  
 RT: 14.549 min Scan# 2277  
 Delta R.T. -0.005 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

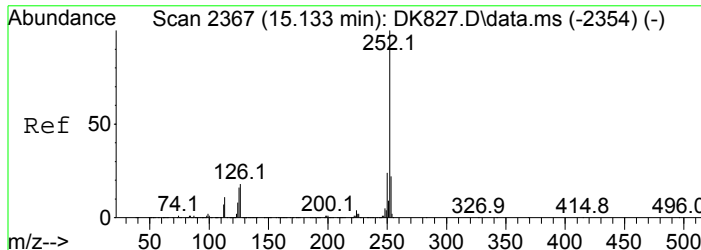
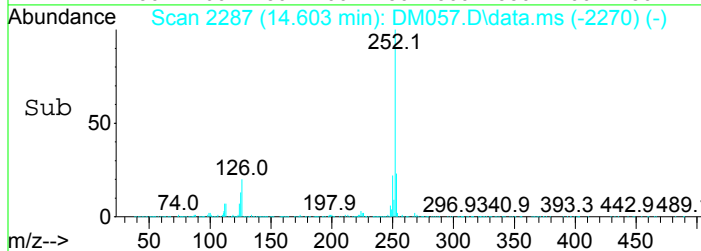
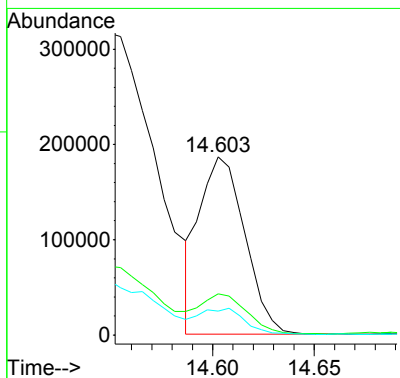
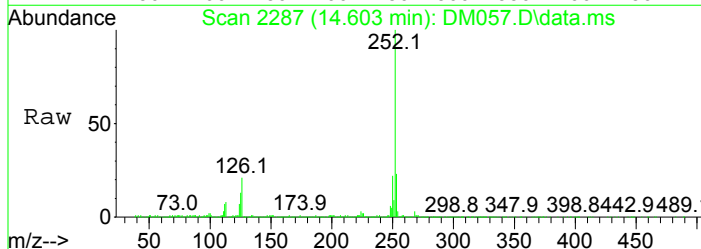
Tgt Ion	Resp	Lower	Upper
252	812140		
252	100		
253	22.1	4.1	44.1
125	18.2	0.0	37.3





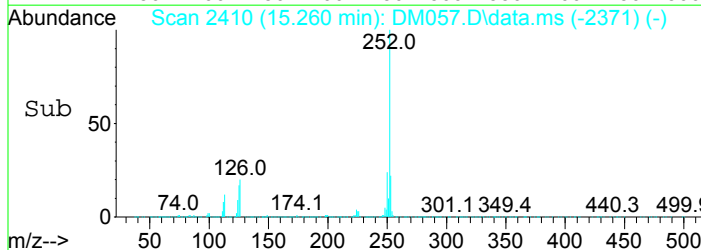
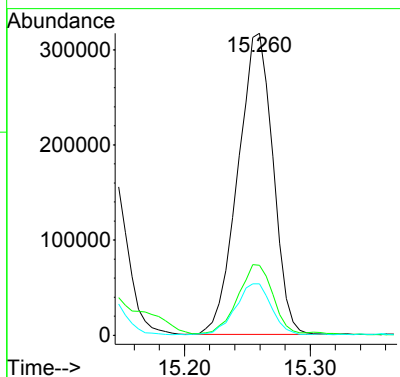
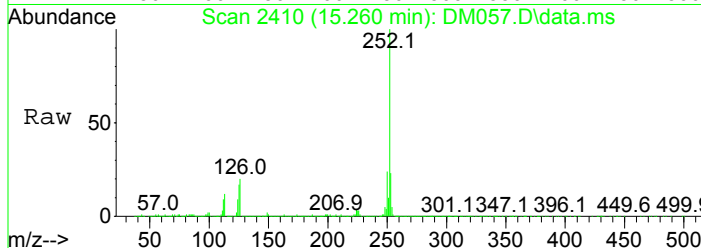
#94  
 Benzo(k)fluoranthene  
 Concen: 18.12 ppm  
 RT: 14.603 min Scan# 2287  
 Delta R.T. -0.009 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

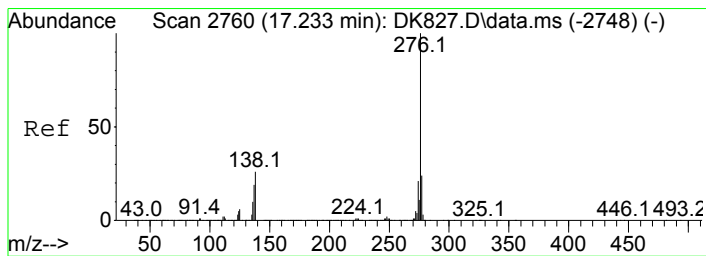
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.1	1.1	41.1
125	12.3	0.0	35.2



#95  
 Benzo(a)pyrene  
 Concen: 42.30 ppm  
 RT: 15.260 min Scan# 2410  
 Delta R.T. 0.006 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

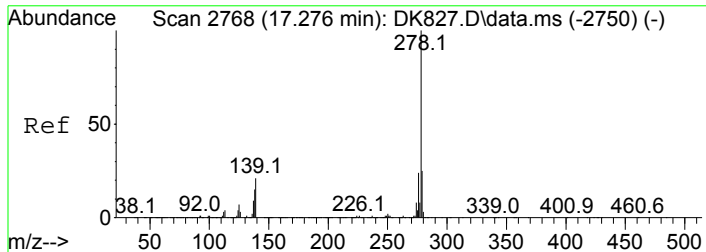
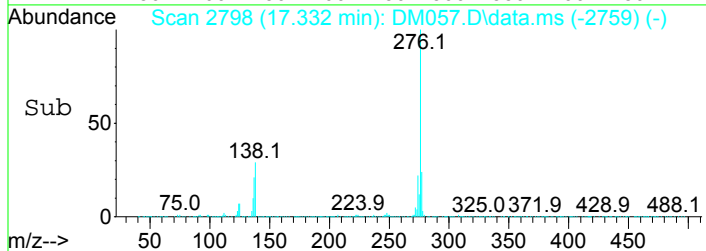
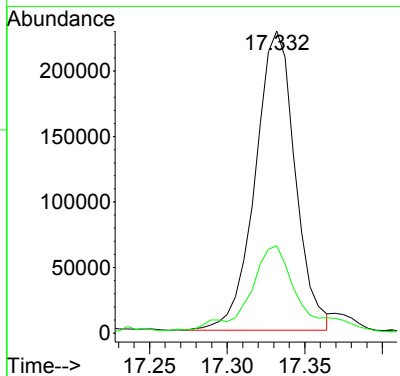
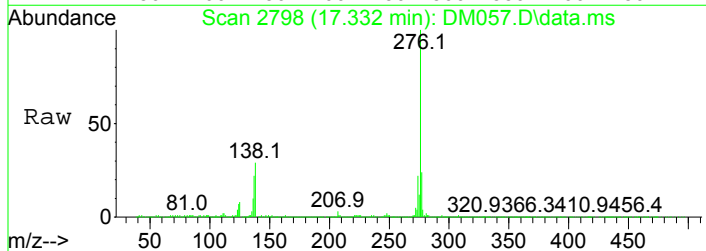
Tgt Ion	Resp	Lower	Upper
252	100		
253	22.4	1.3	41.3
125	16.8	0.0	36.3





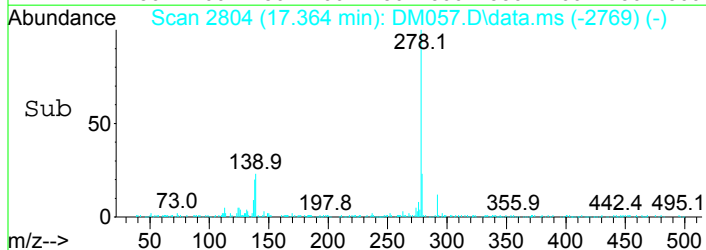
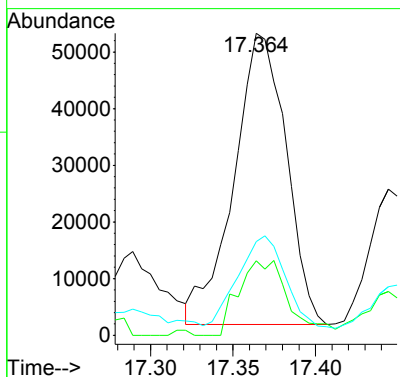
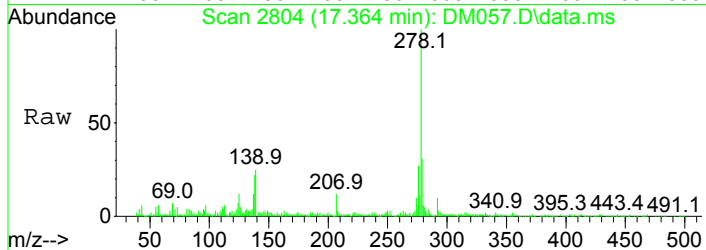
#96  
 Indeno(1,2,3-cd)Pyrene  
 Concen: 30.19 ppm  
 RT: 17.332 min Scan# 2798  
 Delta R.T. 0.010 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

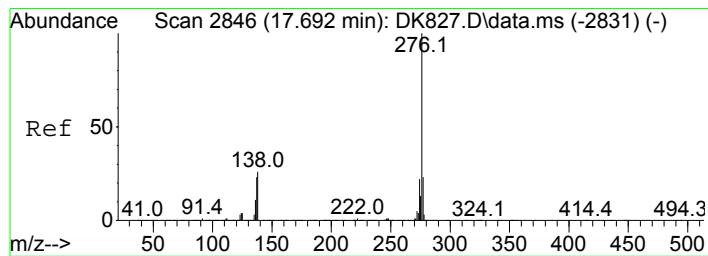
Tgt Ion	Resp	Lower	Upper
276	409500		
138	26.8	6.0	46.0



#97  
 Dibenz(a,h)anthracene  
 Concen: 7.64 ppm  
 RT: 17.364 min Scan# 2804  
 Delta R.T. -0.012 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

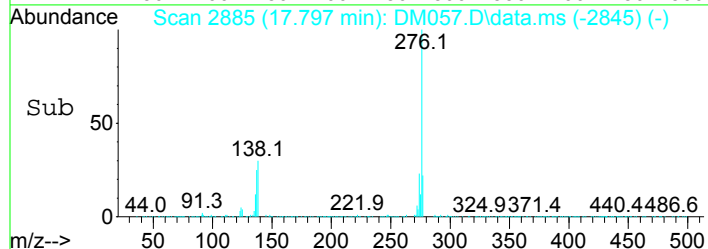
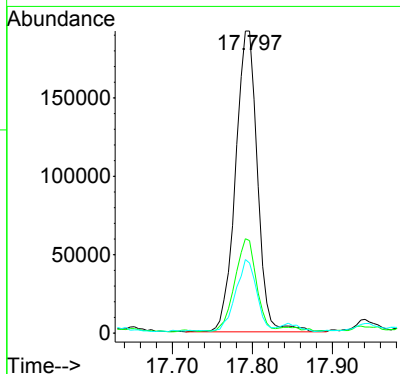
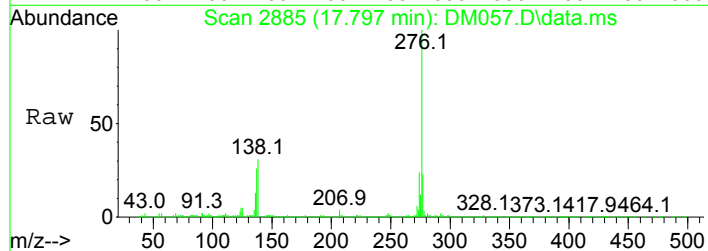
Tgt Ion	Resp	Lower	Upper
278	113210		
139	23.6	2.6	42.6
279	29.3	4.6	44.6





#98  
 Benzo(g,h,i)perylene  
 Concen: 26.90 ppm  
 RT: 17.797 min Scan# 2885  
 Delta R.T. 0.014 min  
 Lab File: DM057.D  
 Acq: 27 Feb 2018 11:24 am

Tgt Ion	Resp	Lower	Upper
276	364931		
138	29.8	10.9	50.9
277	22.5	4.0	44.0



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL989.D  
 Acq On : 22 Feb 2018 2:59 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1701602-01  
 Misc : 8270D BLK  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 14:56:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

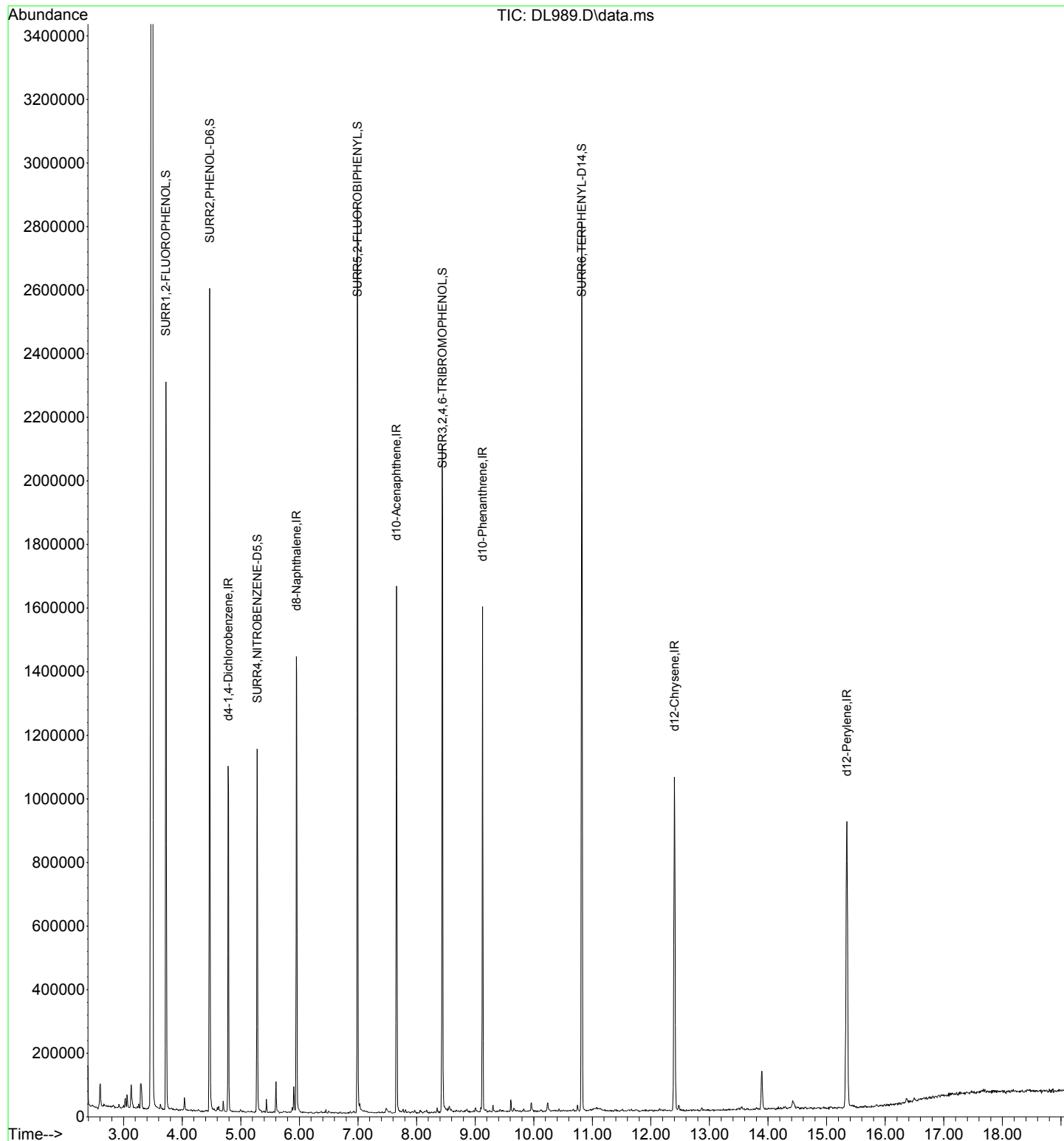
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.785	152	185205	40.00	ppm	-0.02
24) d8-Naphthalene	5.950	136	692057	40.00	ppm	-0.02
42) d10-Acenaphthene	7.659	164	327276	40.00	ppm	-0.02
69) d10-Phenanthrene	9.127	188	527585	40.00	ppm	-0.02
82) d12-Chrysene	12.402	240	500747	40.00	ppm	-0.03
91) d12-Perylene	15.344	264	564809	40.00	ppm	-0.04
System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.722	112	757595	126.31	ppm	-0.01
Spiked Amount 200.000	Range 10 - 105		Recovery =	63.16%		
8) SURR2,PHENOL-D6	4.470	99	1013042	136.23	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery =	68.11%		
25) SURR4,NITROBENZENE-D5	5.282	82	369317	72.55	ppm	-0.01
Spiked Amount 100.000	Range 37 - 117		Recovery =	72.55%		
48) SURR5,2-FLUOROBIPHENYL	6.991	172	854651	73.89	ppm	-0.02
Spiked Amount 100.000	Range 39 - 119		Recovery =	73.89%		
67) SURR3,2,4,6-TRIBROMOPH...	8.444	330	287740	184.37	ppm	-0.01
Spiked Amount 200.000	Range 28 - 157		Recovery =	92.19%		
85) SURR6,TERPHENYL-D14	10.821	244	1027014	95.50	ppm	-0.02
Spiked Amount 100.000	Range 40 - 133		Recovery =	95.50%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL989.D  
Acq On : 22 Feb 2018 2:59 pm  
Operator : J.Misiurewicz  
Sample : RQ1701602-01  
Misc : 8270D BLK  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 26 14:56:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL990.D  
 Acq On : 22 Feb 2018 3:27 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1701602-02  
 Misc : 308725 8270D SOIL LCS  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 14:56:18 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.787	152	180700	40.00	ppm	-0.02	
24) d8-Naphthalene	5.951	136	663866	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.660	164	316303	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.129	188	507180	40.00	ppm	-0.02	
82) d12-Chrysene	12.408	240	529725	40.00	ppm	-0.03	
91) d12-Perylene	15.346	264	536410	40.00	ppm	-0.04	
System Monitoring Compounds							
4) SURR1,2-FLUOROPHENOL	3.729	112	564881	96.53	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	48.27%	
8) SURR2,PHENOL-D6	4.472	99	737245	101.62	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	50.81%	
25) SURR4,NITROBENZENE-D5	5.283	82	267643	54.81	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	54.81%	
48) SURR5,2-FLUOROBIPHENYL	6.993	172	630471	56.40	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	56.40%	
67) SURR3,2,4,6-TRIBROMOPH...	8.440	330	218224	144.68	ppm	-0.02	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	72.34%	
85) SURR6,TERPHENYL-D14	10.822	244	970171	85.28	ppm	-0.02	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	85.28%	
Target Compounds							
							Qvalue
2) Pyridine	2.741	79	168803	28.744	ppm		94
3) N-Nitrosodimethylamine	2.704	74	120963	42.182	ppm		96
6) Benzaldehyde	4.418	106	216586	56.457	ppm		94
7) Aniline	4.504	93	391231	37.211	ppm		97
9) Phenol	4.482	94	382966	53.526	ppm		100
10) bis(2-Clethyl)Ether	4.546	93	241181	45.176	ppm		91
11) 2-Chlorophenol	4.616	128	295931	49.618	ppm		99
12) 1,3-Diclbzene	4.739	146	286753	44.865	ppm		99
13) 1,4-Dichlorobenzene	4.803	146	291938	44.696	ppm		98
14) 1,2-Diclbzene	4.936	146	281531	45.618	ppm		98
15) Benzyl Alcohol	4.904	79	219643	51.508	ppm		98
17) 2,2'-oxybis(1-Chloropr...	5.011	45	237271	49.082	ppm		89
18) 2-Methylphenol	5.006	108	272089	50.782	ppm		98
19) 3+4-Methylphenol	5.145	108	288825	49.686	ppm		94
20) Acetophenone	5.139	105	721339	92.521	ppm		92
21) N-Nitroso-Di-n-propyla...	5.134	70	176840	45.814	ppm		91
22) Hexachloroethane	5.241	117	106854	44.398	ppm		98
23) Alpha-terpinol	5.972	121	116193	56.316	ppm		95
26) Nitrobenzene	5.299	77	238075	47.406	ppm		91
27) Isophorone	5.513	82	488847	50.727	ppm		99
28) 2-Nitrophenol	5.593	139	152681	61.279	ppm		94
29) 2,4-Dimethylphenol	5.631	107	306422	57.962	ppm		98
30) bis(-2-Chloroethoxy)Me...	5.711	93	324202	54.655	ppm		99
31) Benzoic Acid	5.716	105	104525	54.373	ppm		96
32) 2,4-Dichlorophenol	5.823	162	235010	57.012	ppm		95
33) 1,2,4-Trichlorobenzene	5.892	180	228076	50.432	ppm		96
34) Naphthalene	5.972	128	822475	49.849	ppm		99
35) 4-Chloroaniline	6.026	127	292959	38.012	ppm		99
37) Hexachlorobutadiene	6.079	225	115082	52.032	ppm		98
38) 4-Chloro-3-methylphenol	6.501	107	252691	60.608	ppm		97
39) Caprolactam	6.362	113	120200	69.947	ppm		90
40) 2-Methylnaphthalene	6.640	142	566566	53.334	ppm		99
41) 1-Methylnaphthalene	6.736	142	547737	55.208	ppm		99



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL990.D  
 Acq On : 22 Feb 2018 3:27 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1701602-02  
 Misc : 308725 8270D SOIL LCS  
 ALS Vial : 5 Sample Multiplier: 1

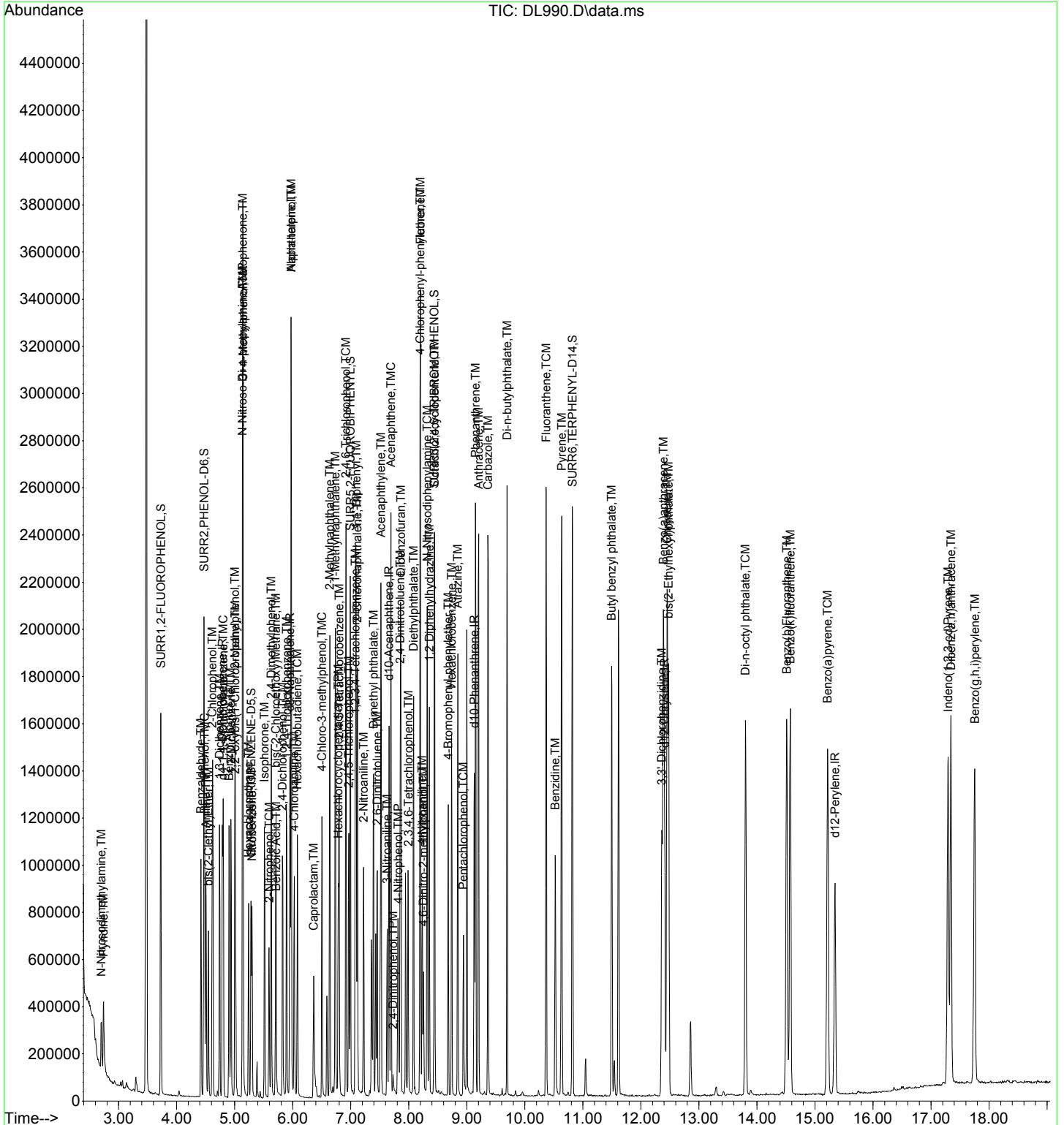
Quant Time: Feb 26 14:56:18 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.784	237	117097	51.773	ppm	97
44) 1,2,4,5-Tetrachloroben...	6.800	216	223315	53.043	ppm	97
45) 1,2,3,4-Tetrachloroben...	7.078	216	217221	53.143	ppm	99
46) 2,4,6-Trichlorophenol	6.918	196	156753	60.147	ppm	99
47) 2,4,5-Trichlorophenol	6.966	196	168618	61.538	ppm	98
49) 1,1'-Biphenyl	7.094	154	728019	57.238	ppm	99
50) 2-Chloronaphthalene	7.115	162	514141	55.043	ppm	98
51) 2-Nitroaniline	7.222	65	135505	69.174	ppm	93
52) Acenaphthylene	7.521	152	898609	58.498	ppm	98
53) Dimethyl phthalate	7.393	163	566574	54.526	ppm	100
54) 2,6-Dinitrotoluene	7.457	165	148919	70.955	ppm	90
55) Acenaphthene	7.692	153	575510	54.780	ppm	99
56) 3-Nitroaniline	7.628	138	135269	54.374	ppm	90
57) 2,4-Dinitrophenol	7.730	184	20236	47.330	ppm	90
58) Dibenzofuran	7.863	168	755657	58.217	ppm	98
59) 2,4-Dinitrotoluene	7.852	165	205665	76.426	ppm	92
60) 4-Nitrophenol	7.820	65	100336	67.579	ppm	99
62) 2,3,4,6-Tetrachlorophenol	7.991	232	122668	67.815	ppm	99
63) Fluorene	8.200	166	630765	58.833	ppm	99
64) 4-Chlorophenyl-phenyle...	8.194	204	272593	63.162	ppm	98
65) Diethylphthalate	8.082	149	587883	56.246	ppm	98
66) 4-Nitroaniline	8.232	138	185427	64.826	ppm	93
68) Octachlorocyclopentene	8.445	307	96309	64.268	ppm	96
70) 4,6-Dinitro-2-methylph...	8.253	198	85180	74.727	ppm	89
71) 1,2 Diphenylhydrazine	8.354	77	577513	63.156	ppm	97
72) N-Nitrosodiphenylamine	8.317	169	513343	67.659	ppm	100
73) 4-Bromophenyl-phenylether	8.680	248	152030	63.641	ppm	99
74) Hexachlorobenzene	8.739	284	206448	69.413	ppm	99
75) Atrazine	8.846	215	111295	80.015	ppm	97
76) Pentachlorophenol	8.942	266	97006	91.261	ppm	97
77) Phenanthrene	9.150	178	890399	66.893	ppm	100
78) Anthracene	9.204	178	919661	69.252	ppm	98
79) Carbazole	9.364	167	1017427	74.126	ppm	98
80) Di-n-butylphthalate	9.695	149	1193926	72.307	ppm	99
81) Fluoranthene	10.368	202	1069468	78.601	ppm	98
83) Benzidine	10.523	184	457919	43.901	ppm	98
84) Pyrene	10.635	202	1108032	70.696	ppm	99
86) Butyl benzyl phthalate	11.495	149	576253	68.127	ppm	96
87) 3,3'-Dichlorobenzidine	12.360	252	340421	49.178	ppm	97
88) Benzo(a)anthracene	12.387	228	1073469	72.349	ppm	98
89) Chrysene	12.451	228	1044458	75.279	ppm	98
90) bis(2-Ethylhexyl)phtha...	12.478	149	806720	70.809	ppm	98
92) Di-n-octyl phthalate	13.802	149	1358146	70.199	ppm	98
93) Benzo(b)Fluoranthene	14.513	252	1105565	72.583	ppm	95
94) Benzo(k)fluoranthene	14.577	252	1080443	75.032	ppm	98
95) Benzo(a)pyrene	15.218	252	1025035	78.255	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.295	276	963590	78.483	ppm	99
97) Dibenz(a,h)anthracene	17.344	278	1008077	75.108	ppm	99
98) Benzo(g,h,i)perylene	17.755	276	948201	77.212	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

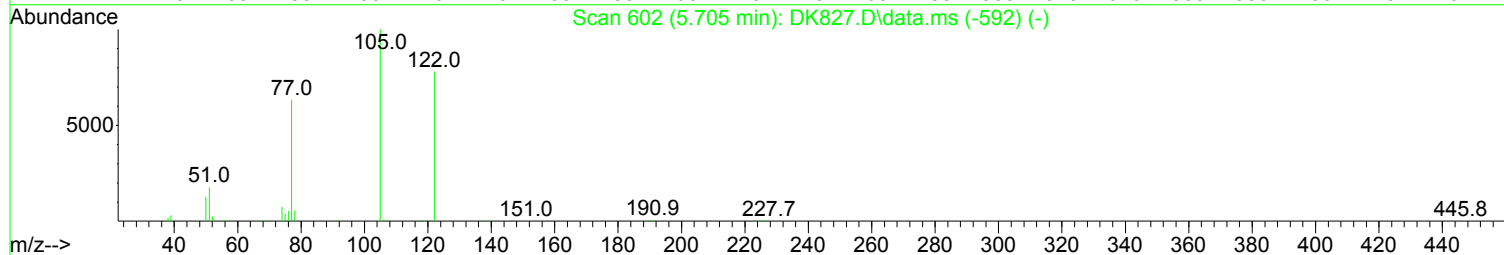
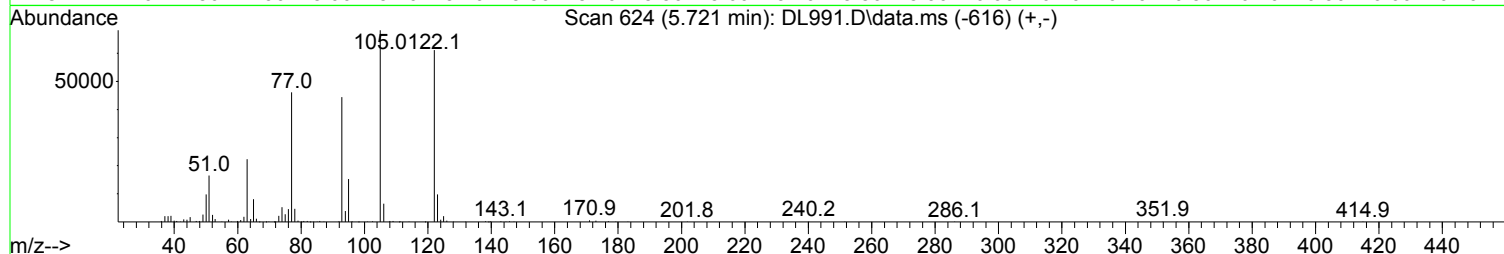
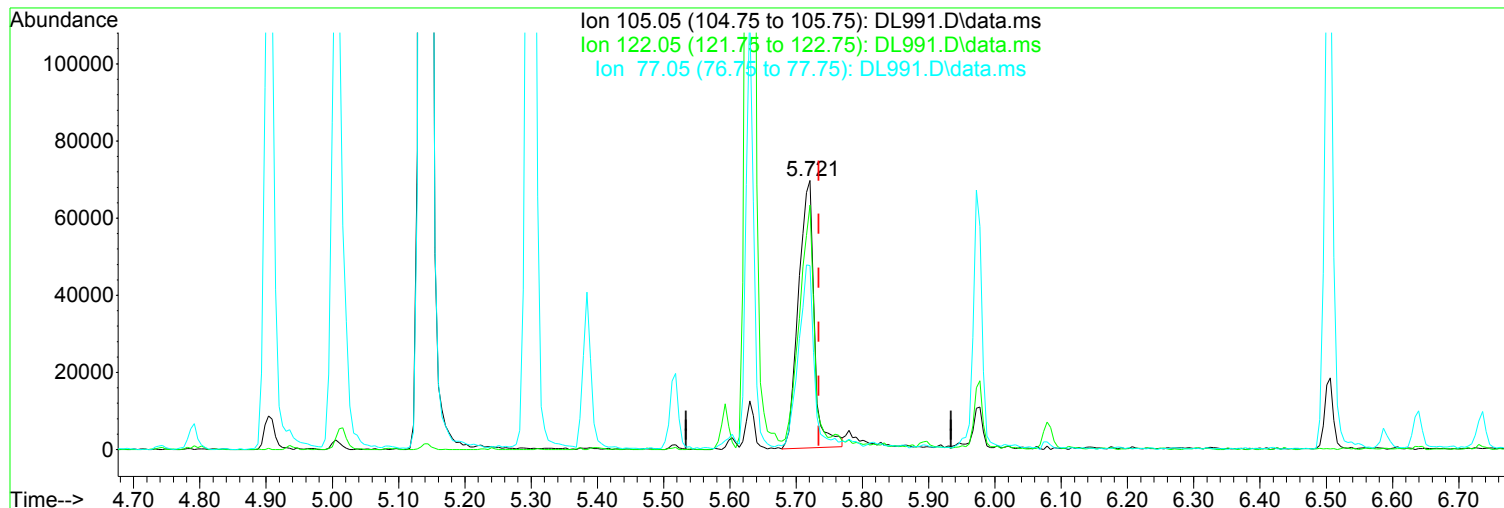
Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL990.D  
Acq On : 22 Feb 2018 3:27 pm  
Operator : J.Misiurewicz  
Sample : RQ1701602-02  
Misc : 308725 8270D SOIL LCS  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 26 14:56:18 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL991.D  
 Acq On : 22 Feb 2018 3:55 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1701602-03  
 Misc : 308725 8270D SOIL LCSD  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 14:56:23 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration



TIC: DL991.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.721min (-0.013) 58.16 ppm m

After

response 116035

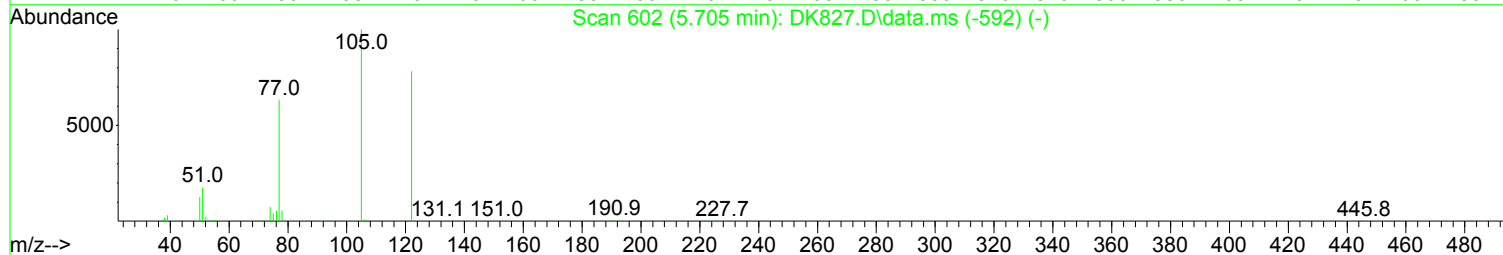
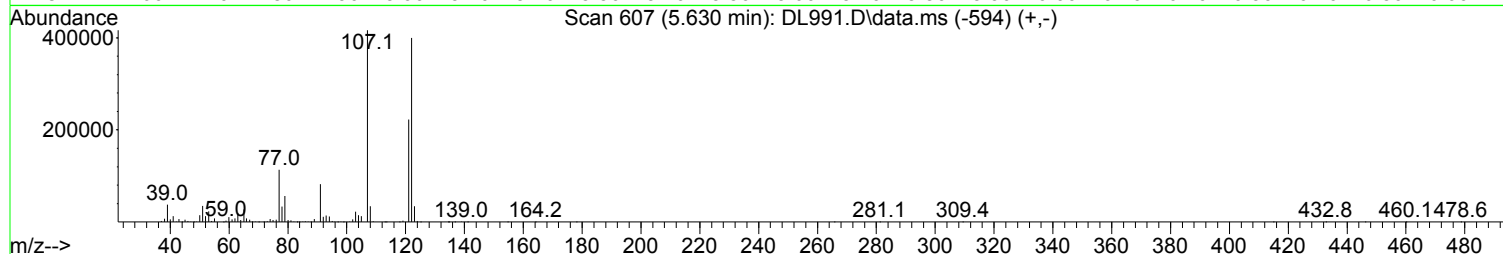
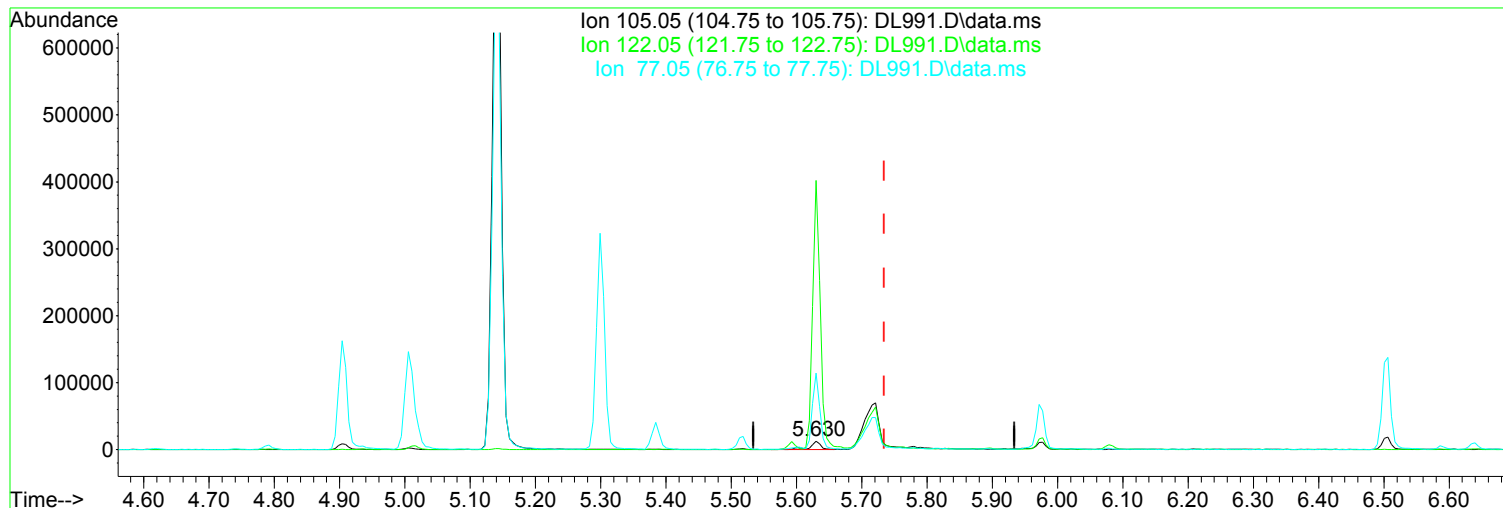
Wrong peak selected.

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	90.84
77.05	68.30	68.38
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL991.D  
Acq On : 22 Feb 2018 3:55 pm  
Operator : J.Misiurewicz  
Sample : RQ1701602-03  
Misc : 308725 8270D SOIL LCSD  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 14:56:23 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL991.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.630min (-0.104) 21.79 ppm

Before

response 13859

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	3174.93#
77.05	68.30	900.07#
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL991.D  
 Acq On : 22 Feb 2018 3:55 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1701602-03  
 Misc : 308725 8270D SOIL LCSD  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 14:56:23 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.786	152	177189	40.00	ppm	-0.02	
24) d8-Naphthalene	5.950	136	668511	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.660	164	323616	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.128	188	526842	40.00	ppm	-0.02	
82) d12-Chrysene	12.408	240	537470	40.00	ppm	-0.03	
91) d12-Perylene	15.345	264	557097	40.00	ppm	-0.04	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.729	112	642086	111.89	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	55.95%	
8) SURR2,PHENOL-D6	4.471	99	832027	116.95	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	58.48%	
25) SURR4,NITROBENZENE-D5	5.283	82	309812	63.01	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	63.01%	
48) SURR5,2-FLUOROBIPHENYL	6.992	172	715473	62.56	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	62.56%	
67) SURR3,2,4,6-TRIBROMOPH...	8.445	330	235127	152.36	ppm	-0.01	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	76.18%	
85) SURR6,TERPHENYL-D14	10.822	244	1056795	91.56	ppm	-0.02	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	91.56%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.735	79	194429	33.763	ppm		92
3) N-Nitrosodimethylamine	2.698	74	141570	50.346	ppm		96
6) Benzaldehyde	4.418	106	251986	66.986	ppm		97
7) Aniline	4.508	93	448571	43.510	ppm		86
9) Phenol	4.482	94	440299	62.758	ppm		98
10) bis(2-Clethyl)Ether	4.546	93	279164	53.327	ppm		92
11) 2-Chlorophenol	4.615	128	351320	60.072	ppm		98
12) 1,3-Diclbzene	4.738	146	343189	54.759	ppm		99
13) 1,4-Dichlorobenzene	4.802	146	346848	54.155	ppm		98
14) 1,2-Diclbzene	4.936	146	334155	55.218	ppm		98
15) Benzyl Alcohol	4.904	79	258926	61.924	ppm		95
17) 2,2'-oxybis(1-Chloropr...	5.016	45	276516	58.333	ppm		84
18) 2-Methylphenol	5.005	108	317531	60.438	ppm		99
19) 3+4-Methylphenol	5.144	108	332665	58.361	ppm		98
20) Acetophenone	5.139	105	836161	109.373	ppm		90
21) N-Nitroso-Di-n-propyla...	5.133	70	204777	54.103	ppm		93
22) Hexachloroethane	5.240	117	122433	51.880	ppm		99
23) Alpha-terpinol	5.977	121	135906	67.176	ppm		91
26) Nitrobenzene	5.299	77	279402	55.248	ppm		94
27) Isophorone	5.518	82	568640	58.597	ppm		98
28) 2-Nitrophenol	5.593	139	176581	70.379	ppm		97
29) 2,4-Dimethylphenol	5.630	107	349420	65.636	ppm		99
30) bis(-2-Chloroethoxy)Me...	5.710	93	375508	62.865	ppm		98
31) Benzoic Acid	5.721	105	116035m	58.164	ppm		
32) 2,4-Dichlorophenol	5.828	162	276478	66.606	ppm		96
33) 1,2,4-Trichlorobenzene	5.897	180	272471	59.830	ppm		97
34) Naphthalene	5.972	128	957542	57.631	ppm		99
35) 4-Chloroaniline	6.025	127	338002	43.552	ppm		98
37) Hexachlorobutadiene	6.084	225	137289	61.641	ppm		99
38) 4-Chloro-3-methylphenol	6.506	107	294432	70.129	ppm		97
39) Caprolactam	6.367	113	129552	74.866	ppm		86
40) 2-Methylnaphthalene	6.640	142	646202	60.408	ppm		99
41) 1-Methylnaphthalene	6.736	142	617168	61.774	ppm		97

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL991.D  
 Acq On : 22 Feb 2018 3:55 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1701602-03  
 Misc : 308725 8270D SOIL LCSD  
 ALS Vial : 6 Sample Multiplier: 1

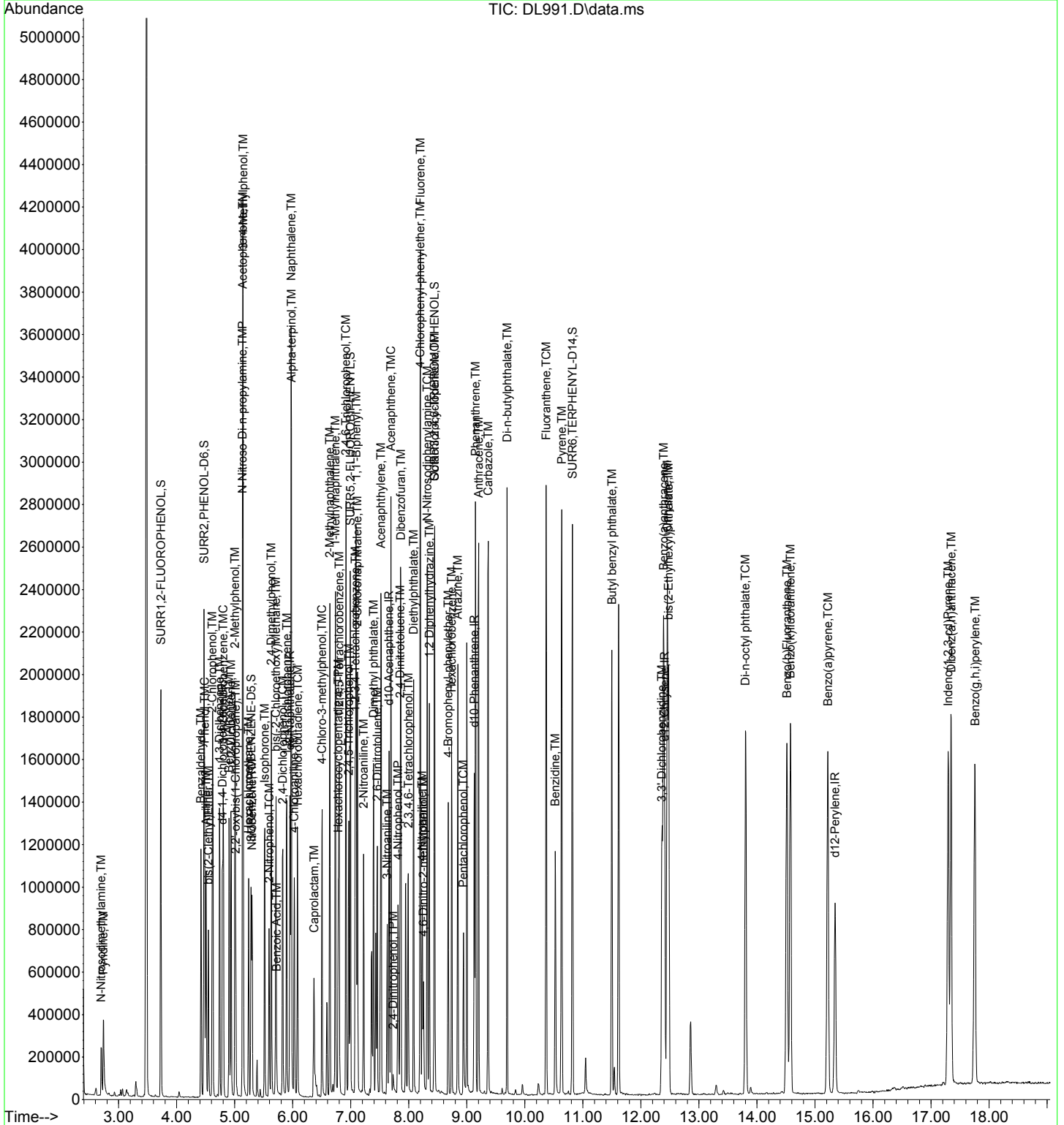
Quant Time: Feb 26 14:56:23 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.784	237	137863	59.577	ppm	100
44) 1,2,4,5-Tetrachloroben...	6.800	216	258917	60.110	ppm	97
45) 1,2,3,4-Tetrachloroben...	7.077	216	254951	60.964	ppm	97
46) 2,4,6-Trichlorophenol	6.917	196	180002	67.507	ppm	99
47) 2,4,5-Trichlorophenol	6.965	196	198123	70.673	ppm	99
49) 1,1'-Biphenyl	7.093	154	825741	63.454	ppm	99
50) 2-Chloronaphthalene	7.115	162	583749	61.083	ppm	97
51) 2-Nitroaniline	7.222	65	154006	76.841	ppm	95
52) Acenaphthylene	7.521	152	1039717	66.155	ppm	99
53) Dimethyl phthalate	7.393	163	630435	59.301	ppm	100
54) 2,6-Dinitrotoluene	7.457	165	168578	78.507	ppm	96
55) Acenaphthene	7.692	153	661609	61.553	ppm	98
56) 3-Nitroaniline	7.628	138	146667	57.623	ppm	98
57) 2,4-Dinitrophenol	7.729	184	20932	47.687	ppm	92
58) Dibenzofuran	7.863	168	863831	65.047	ppm	96
59) 2,4-Dinitrotoluene	7.852	165	222641	80.021	ppm	94
60) 4-Nitrophenol	7.815	65	117041	77.049	ppm	86
62) 2,3,4,6-Tetrachlorophenol	7.991	232	140897	76.133	ppm	94
63) Fluorene	8.199	166	712348	64.941	ppm	99
64) 4-Chlorophenyl-phenyle...	8.194	204	303509	68.736	ppm	98
65) Diethylphthalate	8.082	149	652424	61.010	ppm	98
66) 4-Nitroaniline	8.231	138	200347	68.459	ppm	93
68) Octachlorocyclopentene	8.445	307	107038	69.814	ppm	97
70) 4,6-Dinitro-2-methylph...	8.252	198	78929	68.420	ppm	94
71) 1,2 Diphenylhydrazine	8.354	77	637889	67.155	ppm	95
72) N-Nitrosodiphenylamine	8.317	169	581667	73.803	ppm	100
73) 4-Bromophenyl-phenylether	8.680	248	168442	67.880	ppm	96
74) Hexachlorobenzene	8.739	284	225032	72.838	ppm	98
75) Atrazine	8.845	215	119701	82.846	ppm	97
76) Pentachlorophenol	8.941	266	109131	96.413	ppm	99
77) Phenanthrene	9.150	178	992655	71.792	ppm	98
78) Anthracene	9.203	178	1003836	72.770	ppm	98
79) Carbazole	9.369	167	1104165	77.443	ppm	100
80) Di-n-butylphthalate	9.695	149	1321940	77.072	ppm	99
81) Fluoranthene	10.368	202	1164105	82.363	ppm	98
83) Benzidine	10.522	184	516412	48.796	ppm	98
84) Pyrene	10.635	202	1229247	77.300	ppm	99
86) Butyl benzyl phthalate	11.500	149	649793	75.714	ppm	94
87) 3,3'-Dichlorobenzidine	12.360	252	368748	52.503	ppm	98
88) Benzo(a)anthracene	12.392	228	1193619	79.288	ppm	98
89) Chrysene	12.456	228	1140376	81.008	ppm	100
90) bis(2-Ethylhexyl)phtha...	12.477	149	907394	78.498	ppm	99
92) Di-n-octyl phthalate	13.802	149	1546384	76.960	ppm	98
93) Benzo(b)Fluoranthene	14.518	252	1207657	76.342	ppm	95
94) Benzo(k)fluoranthene	14.576	252	1190316	79.593	ppm	99
95) Benzo(a)pyrene	15.223	252	1135726	83.486	ppm	100
96) Indeno(1,2,3-cd)Pyrene	17.295	276	1043807	81.860	ppm	98
97) Dibenz(a,h)anthracene	17.348	278	1135816	81.483	ppm	99
98) Benzo(g,h,i)perylene	17.760	276	1065062	83.508	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL991.D  
Acq On : 22 Feb 2018 3:55 pm  
Operator : J.Misiurewicz  
Sample : RQ1701602-03  
Misc : 308725 8270D SOIL LCSD  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 26 14:56:23 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM010.D  
 Acq On : 23 Feb 2018 12:12 am  
 Operator : J.Misiurewicz  
 Sample : RQ1801602-04  
 Misc : 308725 8270D SOIL R1453-018MS  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 26 14:57:50 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.794	152	172193	40.00	ppm	-0.01	
24) d8-Naphthalene	5.958	136	656685	40.00	ppm	-0.01	
42) d10-Acenaphthene	7.667	164	310606	40.00	ppm	-0.01	
69) d10-Phenanthrene	9.136	188	510028	40.00	ppm	0.00	
82) d12-Chrysene	12.426	240	489942	40.00	ppm	-0.01	
91) d12-Perylene	15.374	264	434484	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.731	112	464392	83.27	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	41.63%	
8) SURR2,PHENOL-D6	4.473	99	650934	94.15	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	47.08%	
25) SURR4,NITROBENZENE-D5	5.285	82	224200	46.42	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	46.42%	
48) SURR5,2-FLUOROBIPHENYL	6.999	172	584709	53.27	ppm	-0.01	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	53.27%	
67) SURR3,2,4,6-TRIBROMOPH...	8.447	330	235221	158.81	ppm	-0.01	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	79.41%	
85) SURR6,TERPHENYL-D14	10.829	244	915549	87.02	ppm	-0.01	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	87.02%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.743	79	148494	26.535	ppm		92
3) N-Nitrosodimethylamine	2.705	74	98113	35.904	ppm		94
6) Benzaldehyde	4.420	106	188947	51.685	ppm		94
7) Aniline	4.511	93	318208	31.761	ppm		76
9) Phenol	4.489	94	337242	49.464	ppm		96
10) bis(2-Clethyl)Ether	4.548	93	209169	41.116	ppm		91
11) 2-Chlorophenol	4.617	128	258393	45.465	ppm		99
12) 1,3-Diclbzene	4.740	146	227908	37.420	ppm		95
13) 1,4-Dichlorobenzene	4.804	146	232434	37.344	ppm		97
14) 1,2-Diclbzene	4.938	146	232945	39.610	ppm		97
15) Benzyl Alcohol	4.906	79	200562	49.357	ppm		98
17) 2,2'-oxybis(1-Chloropr...	5.018	45	187899	40.789	ppm		94
18) 2-Methylphenol	5.007	108	240906	47.184	ppm		96
19) 3+4-Methylphenol	5.146	108	275197	49.680	ppm		95
20) Acetophenone	5.146	105	607822	81.812	ppm		92
21) N-Nitroso-Di-n-propyla...	5.135	70	149597	40.671	ppm		93
22) Hexachloroethane	5.242	117	69631	30.361	ppm		97
23) Alpha-terpinol	5.979	121	113793	57.878	ppm		92
26) Nitrobenzene	5.301	77	199998	40.259	ppm		88
27) Isophorone	5.520	82	442031	46.371	ppm		99
28) 2-Nitrophenol	5.595	139	120886	49.049	ppm		96
29) 2,4-Dimethylphenol	5.632	107	280015	53.546	ppm		99
30) bis(-2-Chloroethoxy)Me...	5.712	93	269702	45.965	ppm		97
31) Benzoic Acid	5.723	105	65446	40.697	ppm		98
32) 2,4-Dichlorophenol	5.830	162	244686	60.009	ppm		95
33) 1,2,4-Trichlorobenzene	5.899	180	199192	44.527	ppm		98
34) Naphthalene	5.979	128	729396	44.691	ppm		100
35) 4-Chloroaniline	6.033	127	331127	43.434	ppm		99
37) Hexachlorobutadiene	6.081	225	101481	46.385	ppm		93
38) 4-Chloro-3-methylphenol	6.513	107	300329	72.822	ppm		97
39) Caprolactam	6.380	113	126249	74.271	ppm		88
40) 2-Methylnaphthalene	6.642	142	520333	49.517	ppm		98
41) 1-Methylnaphthalene	6.738	142	508012	51.764	ppm		98



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM010.D  
 Acq On : 23 Feb 2018 12:12 am  
 Operator : J.Misiurewicz  
 Sample : RQ1801602-04  
 Misc : 308725 8270D SOIL R1453-018MS  
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 26 14:57:50 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.791	237	15186	6.837	ppm	94
44) 1,2,4,5-Tetrachloroben...	6.802	216	200629	48.529	ppm	94
45) 1,2,3,4-Tetrachloroben...	7.085	216	209524	52.200	ppm	98
46) 2,4,6-Trichlorophenol	6.925	196	180426	70.500	ppm	98
47) 2,4,5-Trichlorophenol	6.973	196	204951	76.170	ppm	100
49) 1,1'-Biphenyl	7.096	154	685961	54.921	ppm	98
50) 2-Chloronaphthalene	7.122	162	496379	54.116	ppm	97
51) 2-Nitroaniline	7.229	65	160405	83.387	ppm	88
52) Acenaphthylene	7.528	152	964267	63.924	ppm	100
53) Dimethyl phthalate	7.395	163	602215	59.019	ppm	99
54) 2,6-Dinitrotoluene	7.459	165	152018	73.760	ppm	93
55) Acenaphthene	7.699	153	616716	59.779	ppm	99
56) 3-Nitroaniline	7.635	138	169566	69.410	ppm	88
57) 2,4-Dinitrophenol	7.742	184	3272	13.207	ppm	98
58) Dibenzofuran	7.865	168	829861	65.107	ppm	92
59) 2,4-Dinitrotoluene	7.859	165	197195	74.948	ppm	93
60) 4-Nitrophenol	7.827	65	98536	67.584	ppm	99
62) 2,3,4,6-Tetrachlorophenol	7.998	232	132023	74.326	ppm	95
63) Fluorene	8.207	166	719196	68.312	ppm	100
64) 4-Chlorophenyl-phenyle...	8.201	204	292931	69.120	ppm	95
65) Diethylphthalate	8.084	149	619919	60.399	ppm	97
66) 4-Nitroaniline	8.239	138	203180	72.335	ppm	94
68) Octachlorocyclopentene	8.447	307	10527	7.154	ppm	95
70) 4,6-Dinitro-2-methylph...	8.265	198	15757	19.079	ppm	94
71) 1,2 Diphenylhydrazine	8.356	77	611855	66.538	ppm	99
72) N-Nitrosodiphenylamine	8.319	169	575976	75.490	ppm	99
73) 4-Bromophenyl-phenylether	8.687	248	167306	69.644	ppm	96
74) Hexachlorobenzene	8.746	284	214430	71.694	ppm	96
75) Atrazine	8.853	215	112778	80.628	ppm	94
76) Pentachlorophenol	8.954	266	89629	86.047	ppm	97
77) Phenanthrene	9.157	178	1256273	93.853	ppm	98
78) Anthracene	9.211	178	1083624	81.144	ppm	99
79) Carbazole	9.376	167	1058371	76.679	ppm	100
80) Di-n-butylphthalate	9.702	149	1220054	73.477	ppm	99
81) Fluoranthene	10.380	202	1353072	98.889	ppm	100
84) Pyrene	10.647	202	1339928	92.434	ppm	99
86) Butyl benzyl phthalate	11.507	149	571399	73.038	ppm	93
87) 3,3'-Dichlorobenzidine	12.378	252	100364	15.676	ppm	97
88) Benzo(a)anthracene	12.405	228	1143146	83.301	ppm	99
89) Chrysene	12.474	228	1065545	83.035	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.490	149	815743	77.415	ppm	96
92) Di-n-octyl phthalate	13.820	149	1387341	88.530	ppm	97
93) Benzo(b)Fluoranthene	14.546	252	1075173	87.147	ppm	96
94) Benzo(k)fluoranthene	14.605	252	971567	83.299	ppm	99
95) Benzo(a)pyrene	15.251	252	903739	85.180	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.324	276	674835	67.859	ppm	97
97) Dibenz(a,h)anthracene	17.372	278	669638	61.597	ppm	98
98) Benzo(g,h,i)perylene	17.788	276	691511	69.520	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM011.D  
 Acq On : 23 Feb 2018 12:39 am  
 Operator : J.Misiurewicz  
 Sample : RQ1801602-05  
 Misc : 308725 8270D SOIL R1453-018MSD  
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 14:57:56 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.793	152	170034	40.00	ppm	-0.01	
24) d8-Naphthalene	5.957	136	676184	40.00	ppm	-0.01	
42) d10-Acenaphthene	7.667	164	307599	40.00	ppm	-0.01	
69) d10-Phenanthrene	9.135	188	502126	40.00	ppm	0.00	
82) d12-Chrysene	12.426	240	475017	40.00	ppm	-0.01	
91) d12-Perylene	15.374	264	413376	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.730	112	379113	68.85	ppm	0.00	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	34.42%	
8) SURR2,PHENOL-D6	4.478	99	621605	91.05	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	45.52%	
25) SURR4,NITROBENZENE-D5	5.285	82	172242	34.63	ppm	-0.01	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	34.63%	
48) SURR5,2-FLUOROBIPHENYL	6.994	172	364181	33.50	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	33.50%	
67) SURR3,2,4,6-TRIBROMOPH...	8.446	330	144905	98.79	ppm	-0.01	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	49.40%	
85) SURR6,TERPHENYL-D14	10.829	244	586337	57.48	ppm	-0.01	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	57.48%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.742	79	100235	18.139	ppm		94
3) N-Nitrosodimethylamine	2.705	74	87105	32.281	ppm		92
6) Benzaldehyde	4.425	106	124400	34.461	ppm		94
7) Aniline	4.510	93	246281	24.894	ppm		94
9) Phenol	4.489	94	311334	46.244	ppm		99
10) bis(2-Clethyl)Ether	4.547	93	149055	29.671	ppm		91
11) 2-Chlorophenol	4.617	128	212740	37.907	ppm		99
12) 1,3-Diclbzene	4.740	146	71634	11.911	ppm		96
13) 1,4-Dichlorobenzene	4.804	146	77243	12.568	ppm		98
14) 1,2-Diclbzene	4.943	146	90896	15.652	ppm		99
15) Benzyl Alcohol	4.905	79	189909	47.329	ppm		98
17) 2,2'-oxybis(1-Chloropr...	5.017	45	109210	24.008	ppm		82
18) 2-Methylphenol	5.012	108	221183	43.871	ppm		97
19) 3+4-Methylphenol	5.151	108	242808	44.390	ppm		97
20) Acetophenone	5.140	105	515630	70.285	ppm		89
21) N-Nitroso-Di-n-propyla...	5.135	70	133046	36.631	ppm		94
22) Hexachloroethane	5.242	117	22040	9.732	ppm		97
23) Alpha-terpinol	5.979	121	94394	48.621	ppm		91
26) Nitrobenzene	5.301	77	145722	28.488	ppm		90
27) Isophorone	5.520	82	381042	38.820	ppm		98
28) 2-Nitrophenol	5.594	139	98058	38.639	ppm		98
29) 2,4-Dimethylphenol	5.637	107	217941	40.474	ppm		99
30) bis(-2-Chloroethoxy)Me...	5.712	93	249548	41.303	ppm		99
32) 2,4-Dichlorophenol	5.829	162	191638	45.644	ppm		92
33) 1,2,4-Trichlorobenzene	5.899	180	102593	22.272	ppm		97
34) Naphthalene	5.974	128	427519	25.439	ppm		98
35) 4-Chloroaniline	6.032	127	250252	31.879	ppm		98
37) Hexachlorobutadiene	6.080	225	46581	20.677	ppm		95
38) 4-Chloro-3-methylphenol	6.508	107	225114	53.010	ppm		96
39) Caprolactam	6.369	113	64611	36.914	ppm		93
40) 2-Methylnaphthalene	6.641	142	317546	29.348	ppm		97
41) 1-Methylnaphthalene	6.737	142	320673	31.733	ppm		97
43) Hexachlorocyclopentadiene	6.785	237	7197	3.272	ppm		91

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DM011.D  
 Acq On : 23 Feb 2018 12:39 am  
 Operator : J.Misiurewicz  
 Sample : RQ1801602-05  
 Misc : 308725 8270D SOIL R1453-018MSD  
 ALS Vial : 25 Sample Multiplier: 1

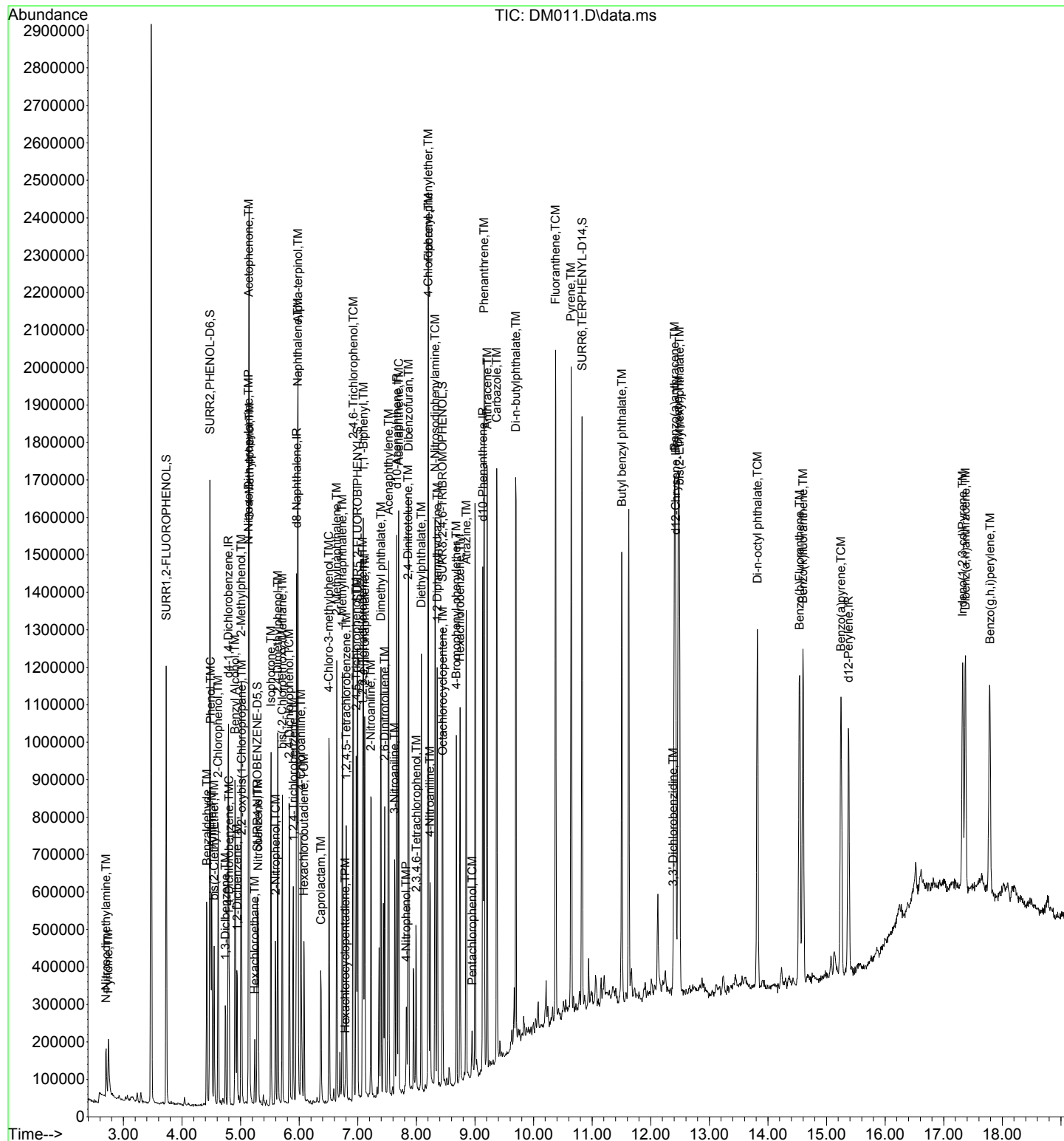
Quant Time: Feb 26 14:57:56 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2,4,5-Tetrachloroben...	6.801	216	123826	30.244	ppm	99
45) 1,2,3,4-Tetrachloroben...	7.084	216	134410	33.814	ppm	98
46) 2,4,6-Trichlorophenol	6.924	196	110368	43.547	ppm	96
47) 2,4,5-Trichlorophenol	6.972	196	137540	51.617	ppm	98
49) 1,1'-Biphenyl	7.095	154	440603	35.621	ppm	99
50) 2-Chloronaphthalene	7.122	162	316100	34.799	ppm	98
51) 2-Nitroaniline	7.223	65	128739	67.579	ppm	96
52) Acenaphthylene	7.528	152	614120	41.110	ppm	100
53) Dimethyl phthalate	7.394	163	462144	45.735	ppm	99
54) 2,6-Dinitrotoluene	7.458	165	112491	55.115	ppm	96
55) Acenaphthene	7.699	153	394346	38.598	ppm	98
56) 3-Nitroaniline	7.629	138	122660	50.701	ppm	99
58) Dibenzofuran	7.864	168	529322	41.934	ppm	97
59) 2,4-Dinitrotoluene	7.859	165	127647	52.554	ppm	93
60) 4-Nitrophenol	7.827	65	37684	26.100	ppm	92
62) 2,3,4,6-Tetrachlorophenol	7.998	232	58110	33.034	ppm	92
63) Fluorene	8.206	166	456472	43.781	ppm	99
64) 4-Chlorophenyl-phenyle...	8.201	204	189645	45.186	ppm	93
65) Diethylphthalate	8.083	149	402944	39.643	ppm	96
66) 4-Nitroaniline	8.233	138	135899	48.855	ppm	96
68) Octachlorocyclopentene	8.452	307	5374	3.688	ppm	86
71) 1,2 Diphenylhydrazine	8.356	77	410182	45.308	ppm	98
72) N-Nitrosodiphenylamine	8.318	169	372837	49.635	ppm	99
73) 4-Bromophenyl-phenylether	8.681	248	110972	46.921	ppm	98
74) Hexachlorobenzene	8.746	284	137084	46.555	ppm	96
75) Atrazine	8.852	215	81835	59.427	ppm	95
76) Pentachlorophenol	8.954	266	22827	31.612	ppm	95
77) Phenanthrene	9.157	178	669567	50.809	ppm	98
78) Anthracene	9.210	178	651470	49.551	ppm	98
79) Carbazole	9.370	167	695487	51.181	ppm	99
80) Di-n-butylphthalate	9.696	149	781429	47.802	ppm	100
81) Fluoranthene	10.375	202	760637	56.466	ppm	97
84) Pyrene	10.642	202	759436	54.035	ppm	98
86) Butyl benzyl phthalate	11.507	149	360813	47.570	ppm	97
87) 3,3'-Dichlorobenzidine	12.383	252	21698	3.496	ppm	96
88) Benzo(a)anthracene	12.404	228	662142	49.766	ppm	99
89) Chrysene	12.468	228	624765	50.216	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.490	149	508422	49.766	ppm	97
92) Di-n-octyl phthalate	13.820	149	871773	58.471	ppm	97
93) Benzo(b)Fluoranthene	14.541	252	608037	51.801	ppm	95
94) Benzo(k)fluoranthene	14.599	252	584644	52.685	ppm	99
95) Benzo(a)pyrene	15.246	252	523383	51.849	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.323	276	389785	41.197	ppm	97
97) Dibenz(a,h)anthracene	17.371	278	401241	38.793	ppm	97
98) Benzo(g,h,i)perylene	17.788	276	404771	42.771	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

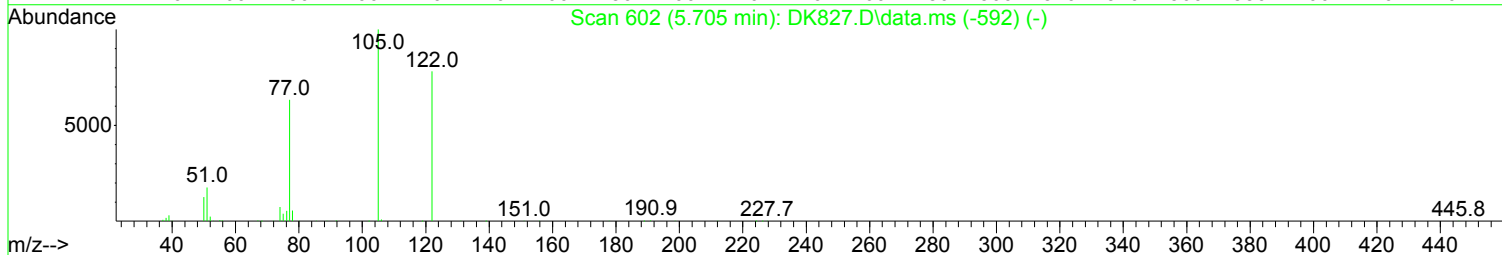
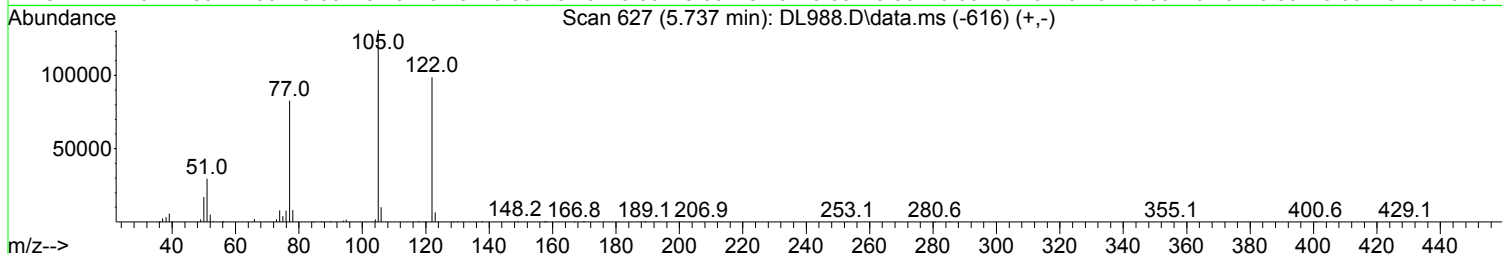
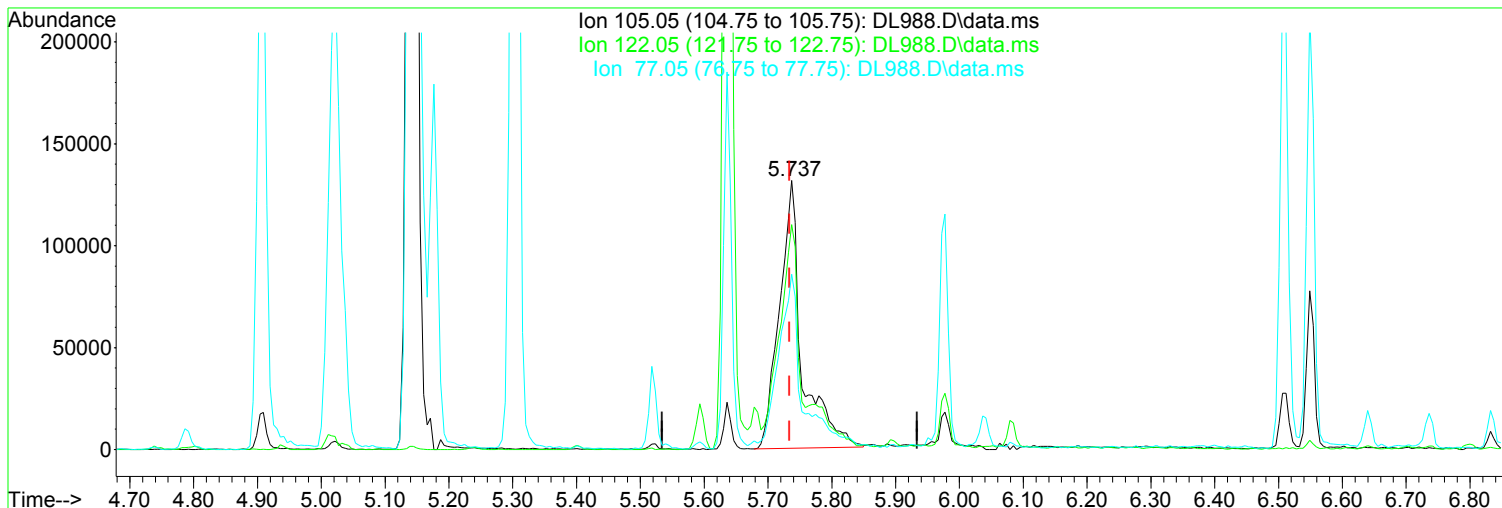
Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DM011.D  
Acq On : 23 Feb 2018 12:39 am  
Operator : J.Misiurewicz  
Sample : RQ1801602-05  
Misc : 308725 8270D SOIL R1453-018MSD  
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 26 14:57:56 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL988.D  
Acq On : 22 Feb 2018 2:17 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL988.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.737min (+ 0.003) 97.68 ppm m

After

response 326923

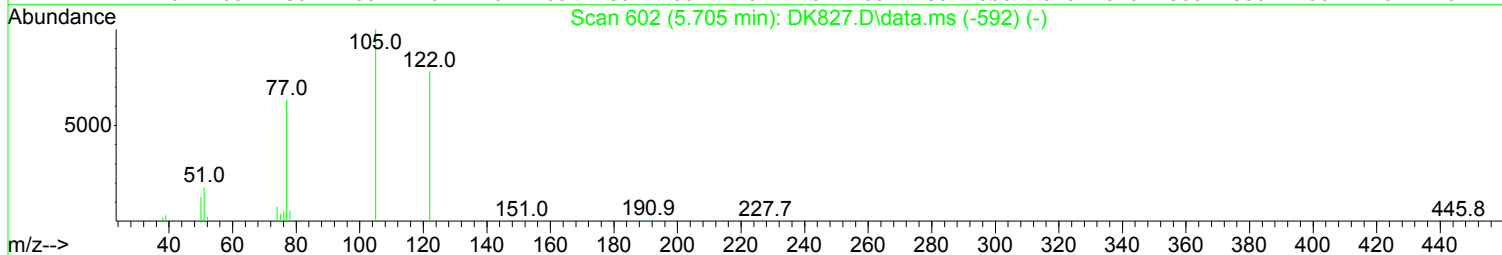
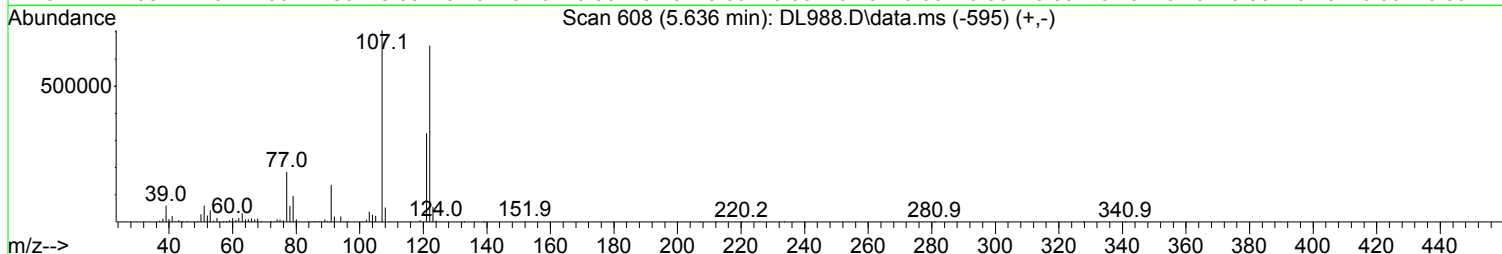
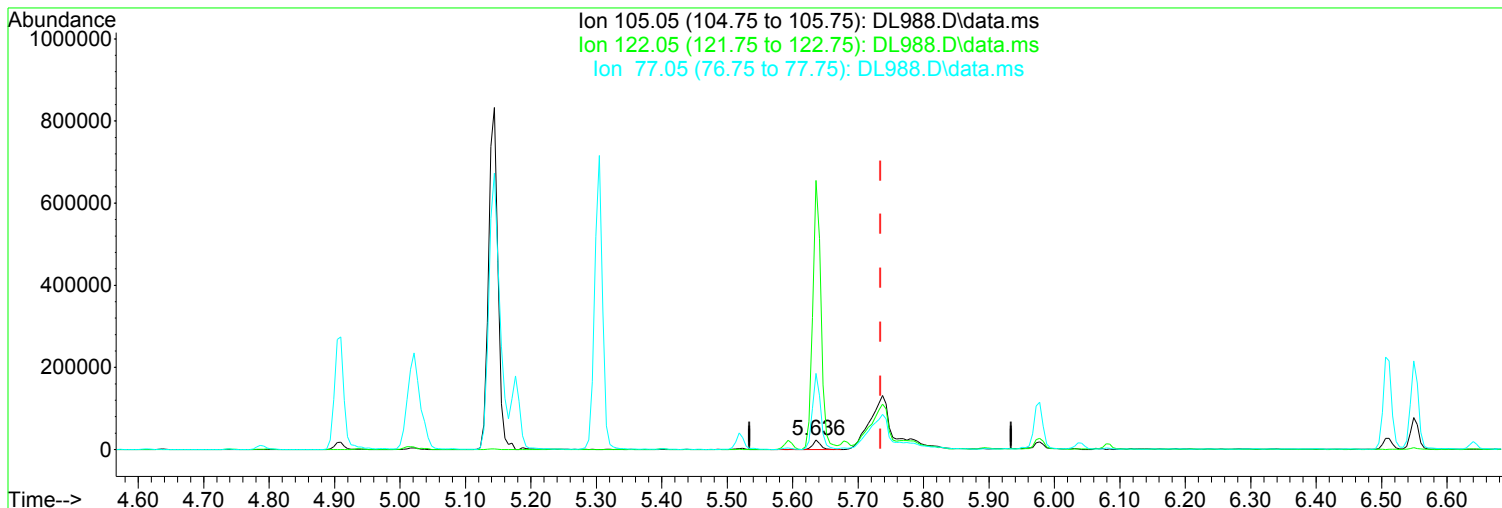
Wrong peak selected.

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	83.65
77.05	68.30	65.22
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL988.D  
 Acq On : 22 Feb 2018 2:17 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration



TIC: DL988.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.636min (-0.098) 21.75 ppm

Before

response 19532

Ion Exp% Act%

02/26/18

105.05 100.00 100.00

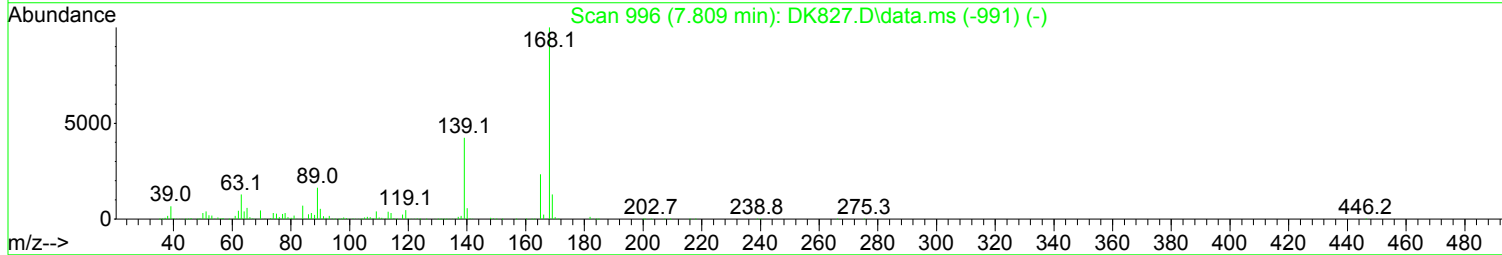
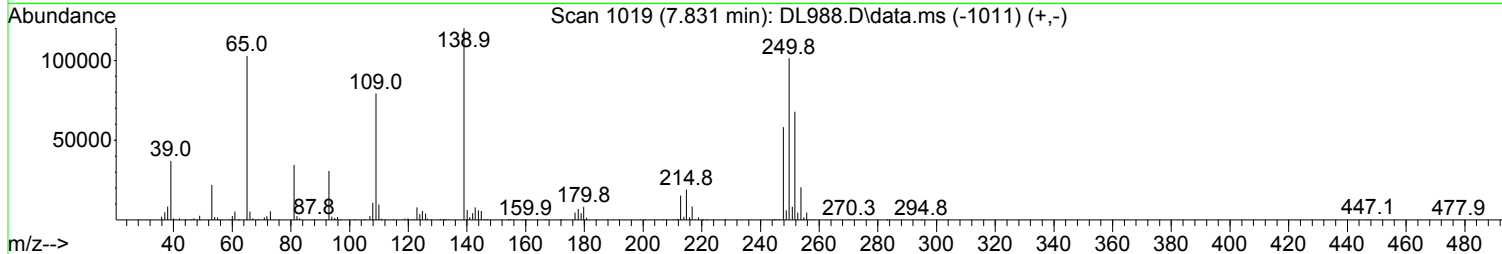
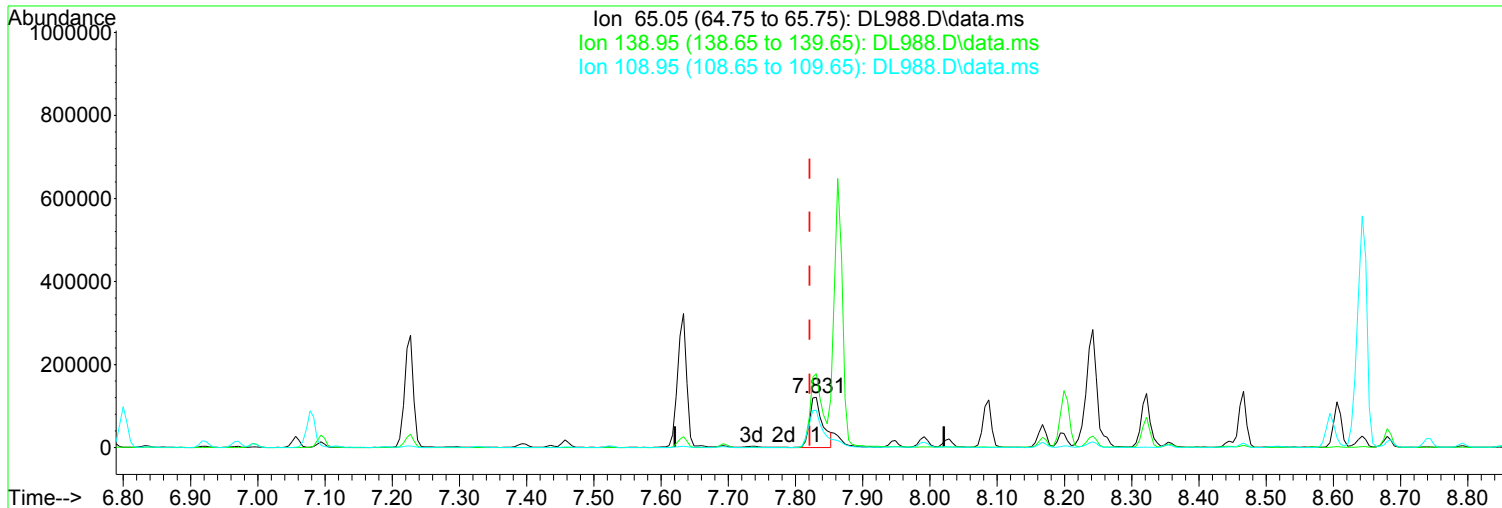
122.05 84.80 2822.84#

77.05 68.30 798.80#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL988.D  
Acq On : 22 Feb 2018 2:17 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL988.D\data.ms

(60) 4-Nitrophenol (TMP)

7.831min (+ 0.010) 77.27 ppm m

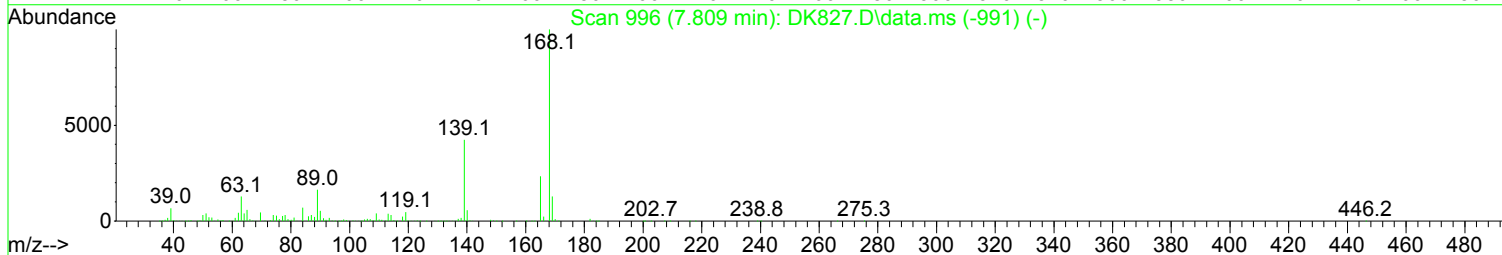
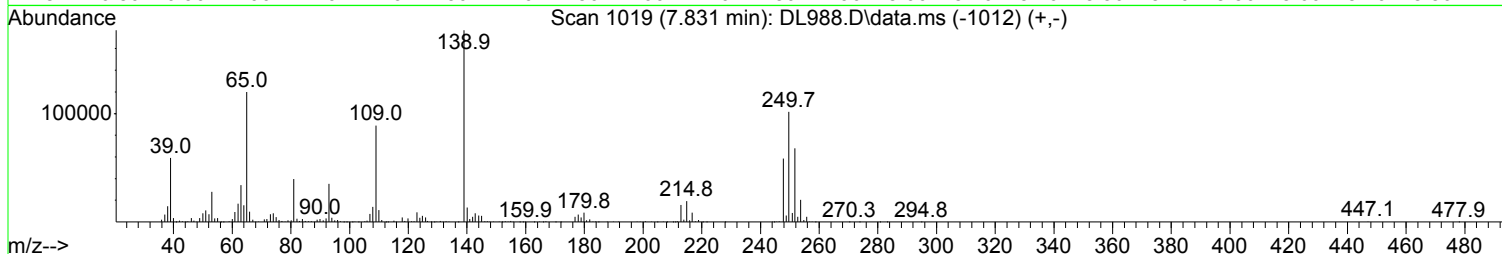
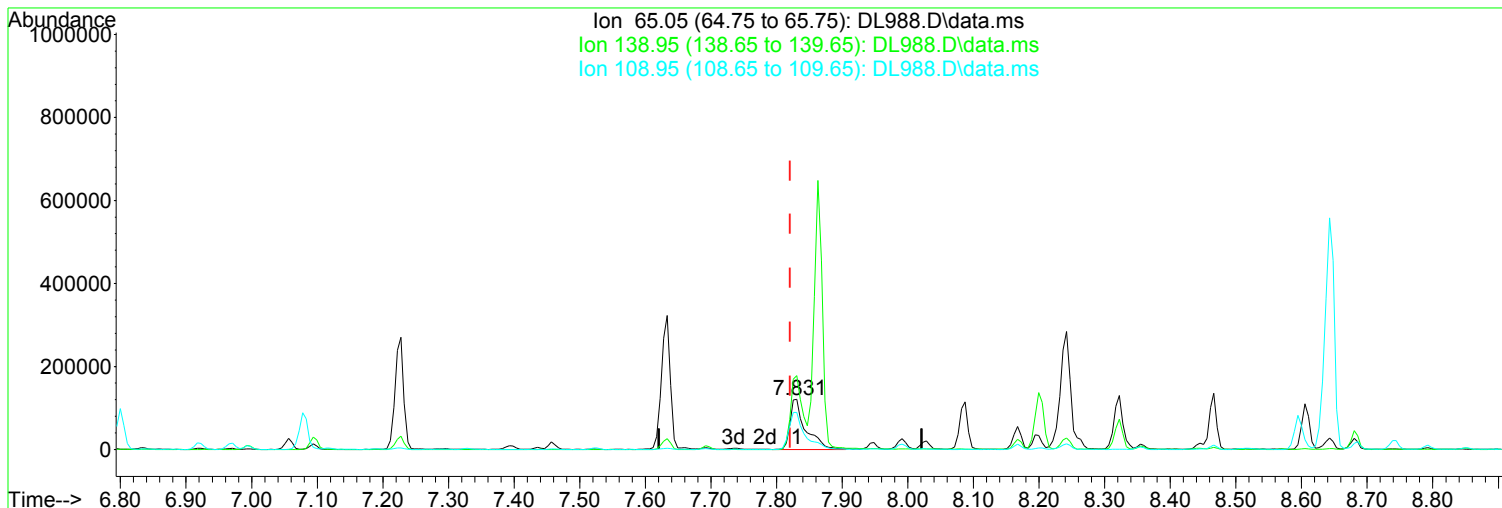
response	166282
Ion	Exp% Act%
65.05	100.00 100.00
138.95	148.60 147.43
108.95	72.40 74.03
0.00	0.00 0.00

Manual Integration:  
After  
Split Peak.  
02/26/18



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL988.D  
Acq On : 22 Feb 2018 2:17 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL988.D\data.ms

(60) 4-Nitrophenol (TMP)			Manual Integration:
7.831min (+ 0.010)	92.17 ppm	Before	
response	198362		
Ion	Exp%	Act%	02/26/18
65.05	100.00	100.00	
138.95	148.60	147.35	
108.95	72.40	74.12	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL988.D  
 Acq On : 22 Feb 2018 2:17 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	157	-0.02
2	TM Pyridine	1.300	1.175		9.6	136	-0.03
3	TM N-Nitrosodimethylamine	0.635	0.593		6.6	137	-0.04
4	S SURR1,2-FLUOROPHENOL	1.295	1.263		2.5	149	0.00
5	TM N-Nitrosodiethylamine	0.717	0.708		1.3	149	-0.02
6	TM Benzaldehyde	0.849	0.811		4.5	147	-0.02
7	TM Aniline	2.327	2.182		6.2	144	-0.01
8	S SURR2,PHENOL-D6	1.606	1.541		4.0	146	0.00
9	TMC Phenol	1.584	1.641		-3.6	163	0.00
10	TM bis(2-Clethyl)Ether	1.182	1.103		6.7	146	-0.02
11	TM 2-Chlorophenol	1.320	1.299		1.6	153	-0.01
12	TM 1,3-Diclbzence	1.415	1.376		2.8	152	-0.02
13	TMC 1,4-Dichlorobenzene	1.446	1.399		3.3	151	-0.02
14	TM 1,2-Diclbzence	1.366	1.319		3.4	150	-0.02
15	TM Benzyl Alcohol	0.944	0.921		2.4	147	0.00
16	T 1-Methyl-2-pyrrolidinone	0.844	0.827		2.0	146	0.00
17	TM 2,2'-oxybis(1-Chloropropane	1.070	0.883		17.5	129	-0.01
18	TM 2-Methylphenol	1.186	1.150		3.0	150	0.00
19	TM 3+4-Methylphenol	1.287	1.348		-4.7	164	0.00
20	TM Acetophenone	1.726	1.609		6.8	147	-0.01
21	TMP N-Nitroso-Di-n-propylamine	0.854	0.776		9.1	139	-0.01
22	TM Hexachloroethane	0.533	0.505		5.3	148	-0.02
23	TM Alpha-terpinol	0.457	0.439		3.9	149	-0.01
24	IR d8-Naphthalene	1.000	1.000		0.0	151	-0.01
25	S SURR4,NITROBENZENE-D5	0.294	0.313		-6.5	155	-0.01
26	TM Nitrobenzene	0.303	0.313		-3.3	151	0.00
27	TM Isophorone	0.581	0.571		1.7	146	-0.01
28	TCM 2-Nitrophenol	0.150	0.180		-20.0	172	-0.01
29	TM 2,4-Dimethylphenol	0.319	0.326		-2.2	150	0.00
30	TM bis(-2-Chloroethoxy)Methane	0.357	0.351		1.7	149	0.00
31	TM Benzoic Acid	0.119	0.172	-22.1	<del>44.5</del>	200#	0.00
32	TCM 2,4-Dichlorophenol	0.248	0.263		-6.0	156	0.00
33	TM 1,2,4-Trichlorobenzene	0.272	0.278		-2.2	155	-0.01
34	TM Naphthalene	0.994	0.967		2.7	149	-0.01
35	TM 4-Chloroaniline	0.464	0.459		1.1	149	0.00
36	TM 2,6-Dichlorophenol	0.271	0.275		-1.5	152	-0.01
37	TCM Hexachlorobutadiene	0.133	0.138		-3.8	156	-0.01
38	TMC 4-Chloro-3-methylphenol	0.251	0.259		-3.2	153	0.00
39	TM Caprolactam	0.104	0.103		1.0	147	0.01
40	TM 2-Methylnaphthalene	0.640	0.635		0.8	151	-0.02
41	TM 1-Methylnaphthalene	0.598	0.594		0.7	152	-0.02
42	IR d10-Acenaphthene	1.000	1.000		0.0	153	-0.02
43	TPM Hexachlorocyclopentadiene	0.286	0.266		7.0	134	-0.01
44	TM 1,2,4,5-Tetrachlorobenzene	0.532	0.535		-0.6	156	-0.01
45	TM 1,2,3,4-Tetrachlorobenzene	0.517	0.512		1.0	154	-0.01
46	TCM 2,4,6-Trichlorophenol	0.330	0.347		-5.2	156	0.00
47	TM 2,4,5-Trichlorophenol	0.347	0.354		-2.0	154	0.00
48	S SURR5,2-FLUOROBIPHENYL	1.414	1.383		2.2	152	-0.01
49	TM 1,1'-Biphenyl	1.608	1.558		3.1	151	-0.02
50	TM 2-Chloronaphthalene	1.181	1.162		1.6	153	-0.01

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL988.D  
 Acq On : 22 Feb 2018 2:17 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
51	TM 2-Nitroaniline	0.248	0.271		-9.3	153	0.00
52	TM Acenaphthylene	1.943	1.902		2.1	151	-0.01
53	TM Dimethyl phthalate	1.314	1.260		4.1	154	-0.01
54	TM 2,6-Dinitrotoluene	0.265	0.297		-12.1	165	-0.01
55	TMC Acenaphthene	1.329	1.298		2.3	150	-0.02
56	TM 3-Nitroaniline	0.315	0.353		-12.1	169	0.00
57	TPM 2,4-Dinitrophenol	0.064	0.106	-29.5	<del>65.6</del> #	224#	0.00
58	TM Dibenzofuran	1.641	1.589		3.2	152	-0.02
59	TM 2,4-Dinitrotoluene	0.327	0.392	-11.2	<del>19.9</del>	173	0.00
60	TMP 4-Nitrophenol	0.188	0.181		3.7	146	0.00
61	TM Pentachlorobenzene	0.473	0.470		0.6	153	-0.01
62	TM 2,3,4,6-Tetrachlorophenol	0.229	0.247		-7.9	161	-0.01
63	TM Fluorene	1.356	1.300		4.1	149	-0.01
64	TM 4-Chlorophenyl-phenylether	0.546	0.533		2.4	152	-0.01
65	TM Diethylphthalate	1.322	1.285		2.8	154	-0.01
66	TM 4-Nitroaniline	0.362	0.388		-7.2	158	0.00
67	S SURR3,2,4,6-TRIBROMOPHENOL	0.191	0.203		-6.3	161	-0.01
68	TM Octachlorocyclopentene	0.190	0.192		-1.1	151	-0.02
69	IR dl0-Phenanthrene	1.000	1.000		0.0	156	-0.02
70	TM 4,6-Dinitro-2-methylphenol	0.084	0.123	-24.2	<del>46.4</del> #	204#	0.00
71	TM 1,2 Diphenylhydrazine	0.721	0.640		11.2	148	-0.02
72	TCM N-Nitrosodiphenylamine	0.598	0.555		7.2	152	-0.01
73	TM 4-Bromophenyl-phenylether	0.188	0.178		5.3	157	-0.02
74	TM Hexachlorobenzene	0.235	0.223		5.1	157	-0.01
75	TM Atrazine	0.110	0.109		0.9	151	-0.01
76	TCM Pentachlorophenol	0.072	0.095	-13.7	<del>31.9</del> #	190	0.00
77	TM Phenanthrene	1.050	1.013		3.5	153	-0.01
78	TM Anthracene	1.047	1.030		1.6	152	-0.01
79	TM Carbazole	1.083	1.053		2.8	149	-0.01
80	TM Di-n-butylphthalate	1.302	1.327		-1.9	152	-0.02
81	TCM Fluoranthene	1.073	1.074		-0.1	151	-0.02
82	IR dl2-Chrysene	1.000	1.000		0.0	158	-0.02
83	TM Benzidine	0.788	0.720		8.6	138	-0.01
84	TM Pyrene	1.183	1.162		1.8	151	-0.02
85	S SURR6,TERPHENYL-D14	0.859	0.834		2.9	149	-0.02
86	TM Butyl benzyl phthalate	0.639	0.626		2.0	150	-0.03
87	TM 3,3'-Dichlorobenzidine	0.523	0.517		1.1	149	-0.02
88	TM Benzo(a)anthracene	1.120	1.075		4.0	151	-0.03
89	TM Chrysene	1.048	1.004		4.2	152	-0.02
90	TM bis(2-Ethylhexyl)phthalate	0.860	0.882		-2.6	153	-0.03
91	IR dl2-Perylene	1.000	1.000		0.0	153	-0.03
92	TCM Di-n-octyl phthalate	1.443	1.508		-4.5	152	-0.04
93	TM Benzo(b)fluoranthene	1.136	1.156		-1.8	152	-0.02
94	TM Benzo(k)fluoranthene	1.074	1.068		0.6	148	-0.02
95	TCM Benzo(a)pyrene	0.977	1.002		-2.6	152	-0.03
96	TM Indeno(1,2,3-cd)Pyrene	0.916	0.941		-2.7	153	-0.02
97	TM Dibenz(a,h)anthracene	1.001	1.028		-2.7	152	-0.02
98	TM Benzo(g,h,i)perylene	0.916	0.909		0.8	152	-0.02

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL988.D  
Acq On : 22 Feb 2018 2:17 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range                      SPCC's out = 0    CCC's out = 1

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL988.D  
 Acq On : 22 Feb 2018 2:17 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.786	152	255267	40.00	ppm	-0.02	
24) d8-Naphthalene	5.956	136	949617	40.00	ppm	-0.01	
42) d10-Acenaphthene	7.660	164	458468	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.129	188	786557	40.00	ppm	-0.02	
82) d12-Chrysene	12.413	240	752093	40.00	ppm	-0.02	
91) d12-Perylene	15.351	264	739932	40.00	ppm	-0.03	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.729	112	645056	78.03	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	39.02%	
8) SURR2,PHENOL-D6	4.471	99	786555	76.74	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	38.37%	
25) SURR4,NITROBENZENE-D5	5.283	82	594577	85.12	ppm	-0.01	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	85.12%	
48) SURR5,2-FLUOROBIPHENYL	6.998	172	1267685	78.24	ppm	-0.01	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	78.24%	
67) SURR3,2,4,6-TRIBROMOPH...	8.445	330	185969	85.06	ppm	-0.01	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	42.53%	
85) SURR6,TERPHENYL-D14	10.822	244	1254093	77.65	ppm	-0.02	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	77.65%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.730	79	599728	72.290	ppm		90
3) N-Nitrosodimethylamine	2.693	74	302832	74.755	ppm		100
5) N-Nitrosodiethylamine	3.894	102	361323	78.946	ppm		94
6) Benzaldehyde	4.418	106	413803	76.356	ppm		97
7) Aniline	4.509	93	1114231	75.020	ppm		96
9) Phenol	4.482	94	837786	82.889	ppm		98
10) bis(2-Clethyl)Ether	4.546	93	563082	74.663	ppm		96
11) 2-Chlorophenol	4.615	128	663304	78.727	ppm		98
12) 1,3-Diclbzene	4.738	146	702640	77.821	ppm		98
13) 1,4-Dichlorobenzene	4.802	146	714190	77.403	ppm		99
14) 1,2-Diclbzene	4.936	146	673421	77.243	ppm		97
15) Benzyl Alcohol	4.909	79	470254	78.065	ppm		96
16) 1-Methyl-2-pyrrolidinone	4.957	99	422197	78.391	ppm		94
17) 2,2'-oxybis(1-Chloropr...	5.016	45	450662	65.991	ppm	#	66
18) 2-Methylphenol	5.021	108	587216	77.583	ppm		99
19) 3+4-Methylphenol	5.155	108	688272	83.815	ppm		99
20) Acetophenone	5.144	105	821475	74.586	ppm		91
21) N-Nitroso-Di-n-propyla...	5.139	70	396384	72.694	ppm		85
22) Hexachloroethane	5.240	117	258005	75.887	ppm		99
23) Alpha-terpinol	5.977	121	224005	76.856	ppm		94
26) Nitrobenzene	5.304	77	594745	82.790	ppm		90
27) Isophorone	5.518	82	1084552	78.677	ppm		99
28) 2-Nitrophenol	5.593	139	341738	95.886	ppm		96
29) 2,4-Dimethylphenol	5.636	107	618659	81.810	ppm		96
30) bis(-2-Chloroethoxy)Me...	5.716	93	667485	78.666	ppm		99
31) Benzoic Acid	5.737	105	326923m	97.681	ppm		
32) 2,4-Dichlorophenol	5.833	162	499470	84.708	ppm		96
33) 1,2,4-Trichlorobenzene	5.897	180	527051	81.473	ppm		99
34) Naphthalene	5.977	128	1835710	77.780	ppm		99
35) 4-Chloroaniline	6.031	127	871455	79.048	ppm		99
36) 2,6-Dichlorophenol	6.036	162	521579	81.044	ppm		93
37) Hexachlorobutadiene	6.084	225	262281	82.902	ppm		98
38) 4-Chloro-3-methylphenol	6.512	107	491842	82.471	ppm		96

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL988.D  
 Acq On : 22 Feb 2018 2:17 pm  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

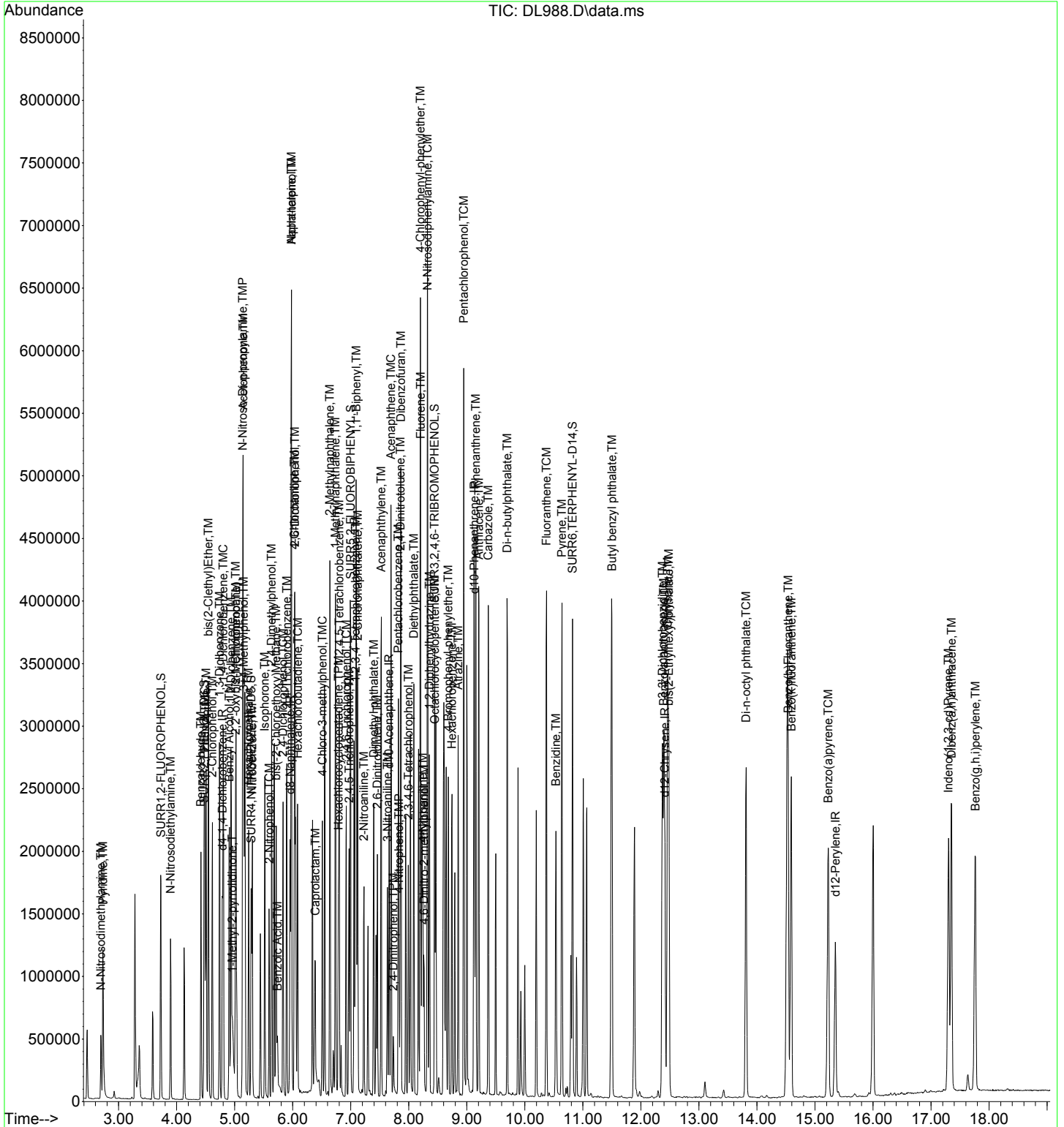
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Caprolactam	6.389	113	196048	79.756	ppm	86
40) 2-Methylnaphthalene	6.640	142	1205095	79.306	ppm	99
41) 1-Methylnaphthalene	6.736	142	1127503	79.447	ppm	98
43) Hexachlorocyclopentadiene	6.789	237	244040	74.441	ppm	97
44) 1,2,4,5-Tetrachloroben...	6.800	216	490860	80.439	ppm	97
45) 1,2,3,4-Tetrachloroben...	7.083	216	469648	79.270	ppm	98
46) 2,4,6-Trichlorophenol	6.923	196	318053	84.196	ppm	99
47) 2,4,5-Trichlorophenol	6.971	196	324912	81.809	ppm	99
49) 1,1'-Biphenyl	7.094	154	1428411	77.480	ppm	98
50) 2-Chloronaphthalene	7.120	162	1065082	78.668	ppm	99
51) 2-Nitroaniline	7.227	65	248144	87.394	ppm	89
52) Acenaphthylene	7.526	152	1743661	78.312	ppm	99
53) Dimethyl phthalate	7.398	163	1155439	76.717	ppm	99
54) 2,6-Dinitrotoluene	7.457	165	272514	89.581	ppm	90
55) Acenaphthene	7.692	153	1190449	78.177	ppm	99
56) 3-Nitroaniline	7.633	138	324096	89.879	ppm	91
57) 2,4-Dinitrophenol	7.735	184	97527	103.581	ppm	84
58) Dibenzofuran	7.863	168	1457262	77.457	ppm	99
59) 2,4-Dinitrotoluene	7.858	165	359711	88.965	ppm	97
60) 4-Nitrophenol	7.831	65	166282m	77.267	ppm	
61) Pentachlorobenzene	7.820	250	430669	79.430	ppm	97
62) 2,3,4,6-Tetrachlorophenol	7.991	232	226038	86.213	ppm	96
63) Fluorene	8.205	166	1192216	76.719	ppm	100
64) 4-Chlorophenyl-phenyle...	8.199	204	489083	78.184	ppm	95
65) Diethylphthalate	8.087	149	1178315	77.778	ppm	99
66) 4-Nitroaniline	8.242	138	356131	85.897	ppm	93
68) Octachlorocyclopentene	8.450	307	175747	80.912	ppm	97
70) 4,6-Dinitro-2-methylph...	8.263	198	192860	99.376	ppm	83
71) 1,2 Diphenylhydrazine	8.354	77	1007281	71.029	ppm	97
72) N-Nitrosodiphenylamine	8.322	169	1747546	148.518	ppm	99
73) 4-Bromophenyl-phenylether	8.680	248	279428	75.424	ppm	96
74) Hexachlorobenzene	8.744	284	350590	76.009	ppm	96
75) Atrazine	8.851	215	171973	79.723	ppm	96
76) Pentachlorophenol	8.947	266	149744	90.968	ppm	99
77) Phenanthrene	9.155	178	1594115	77.223	ppm	100
78) Anthracene	9.209	178	1620285	78.674	ppm	99
79) Carbazole	9.369	167	1656910	77.839	ppm	98
80) Di-n-butylphthalate	9.695	149	2087158	81.507	ppm	98
81) Fluoranthene	10.373	202	1689439	80.063	ppm	98
83) Benzidine	10.533	184	1083502	73.164	ppm	98
84) Pyrene	10.640	202	1747825	78.545	ppm	99
86) Butyl benzyl phthalate	11.500	149	941219	78.375	ppm	97
87) 3,3'-Dichlorobenzidine	12.371	252	777709	79.132	ppm	99
88) Benzo(a)anthracene	12.392	228	1617043	76.762	ppm	99
89) Chrysene	12.462	228	1509976	76.654	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.483	149	1325943	81.973	ppm	97
92) Di-n-octyl phthalate	13.813	149	2231456	83.614	ppm	97
93) Benzo(b)Fluoranthene	14.539	252	1710849	81.427	ppm	95
94) Benzo(k)fluoranthene	14.593	252	1580731	79.581	ppm	99
95) Benzo(a)pyrene	15.228	252	1482098	82.026	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.301	276	1392559	82.225	ppm	98
97) Dibenz(a,h)anthracene	17.354	278	1520716	82.139	ppm	98
98) Benzo(g,h,i)perylene	17.765	276	1344977	79.397	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL988.D  
Acq On : 22 Feb 2018 2:17 pm  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 14:45:34 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM053.D  
 Acq On : 27 Feb 2018 9:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:52:56 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	121	-0.01
2	TM Pyridine	1.300	1.216		6.5	108	-0.03
3	TM N-Nitrosodimethylamine	0.635	0.606		4.6	108	-0.03
4	S SURR1,2-FLUOROPHENOL	1.295	1.307		-0.9	119	0.00
5	TM N-Nitrosodiethylamine	0.717	0.739		-3.1	120	-0.02
6	TM Benzaldehyde	0.849	0.854		-0.6	119	-0.01
7	TM Aniline	2.327	2.261		2.8	115	-0.01
8	S SURR2,PHENOL-D6	1.606	1.616		-0.6	118	0.00
9	TMC Phenol	1.584	1.741		-9.9	133	0.00
10	TM bis(2-Clethyl)Ether	1.182	1.149		2.8	117	-0.01
11	TM 2-Chlorophenol	1.320	1.370		-3.8	124	0.00
12	TM 1,3-Diclbzence	1.415	1.423		-0.6	121	-0.01
13	TMC 1,4-Dichlorobenzene	1.446	1.456		-0.7	121	-0.01
14	TM 1,2-Diclbzence	1.366	1.383		-1.2	121	-0.01
15	TM Benzyl Alcohol	0.944	0.954		-1.1	117	0.00
16	T 1-Methyl-2-pyrrolidinone	0.844	0.869		-3.0	118	0.01
17	TM 2,2'-oxybis(1-Chloropropane	1.070	0.882		17.6	99	-0.01
18	TM 2-Methylphenol	1.186	1.209		-1.9	121	0.00
19	TM 3+4-Methylphenol	1.287	1.446		-12.4	135	0.00
20	TM Acetophenone	1.726	1.697		1.7	119	0.00
21	TMP N-Nitroso-Di-n-propylamine	0.854	0.813		4.8	112	0.00
22	TM Hexachloroethane	0.533	0.533		0.0	120	-0.01
23	TM Alpha-terpinol	0.457	0.471		-3.1	123	-0.01
24	IR d8-Naphthalene	1.000	1.000		0.0	122	-0.01
25	S SURR4,NITROBENZENE-D5	0.294	0.312		-6.1	125	0.00
26	TM Nitrobenzene	0.303	0.308		-1.7	119	0.00
27	TM Isophorone	0.581	0.573		1.4	118	0.00
28	TCM 2-Nitrophenol	0.150	0.182		-21.3	140	0.00
29	TM 2,4-Dimethylphenol	0.319	0.331		-3.8	123	0.00
30	TM bis(-2-Chloroethoxy)Methane	0.357	0.356		0.3	122	0.00
31	TM Benzoic Acid	0.119	0.165	-18.2	<del>-38.7</del>	155	0.02
32	TCM 2,4-Dichlorophenol	0.248	0.261		-5.2	125	0.00
33	TM 1,2,4-Trichlorobenzene	0.272	0.278		-2.2	125	-0.01
34	TM Naphthalene	0.994	0.989		0.5	123	-0.01
35	TM 4-Chloroaniline	0.464	0.473		-1.9	124	0.00
36	TM 2,6-Dichlorophenol	0.271	0.281		-3.7	125	0.00
37	TCM Hexachlorobutadiene	0.133	0.138		-3.8	126	-0.01
38	TMC 4-Chloro-3-methylphenol	0.251	0.263		-4.8	125	0.00
39	TM Caprolactam	0.104	0.110		-5.8	126	0.01
40	TM 2-Methylnaphthalene	0.640	0.651		-1.7	125	0.00
41	TM 1-Methylnaphthalene	0.598	0.601		-0.5	124	0.00
42	IR d10-Acenaphthene	1.000	1.000		0.0	121	-0.01
43	TPM Hexachlorocyclopentadiene	0.286	0.270		5.6	108	-0.01
44	TM 1,2,4,5-Tetrachlorobenzene	0.532	0.551		-3.6	127	0.00
45	TM 1,2,3,4-Tetrachlorobenzene	0.517	0.530		-2.5	126	0.00
46	TCM 2,4,6-Trichlorophenol	0.330	0.357		-8.2	127	0.00
47	TM 2,4,5-Trichlorophenol	0.347	0.364		-4.9	125	0.00
48	S SURR5,2-FLUOROBIPHENYL	1.414	1.419		-0.4	124	-0.01
49	TM 1,1'-Biphenyl	1.608	1.647		-2.4	127	0.00
50	TM 2-Chloronaphthalene	1.181	1.204		-1.9	126	0.00

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM053.D  
 Acq On : 27 Feb 2018 9:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:52:56 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
51	TM 2-Nitroaniline	0.248	0.283		-14.1	127	0.00
52	TM Acenaphthylene	1.943	1.986		-2.2	125	0.00
53	TM Dimethyl phthalate	1.314	1.316		-0.2	128	0.00
54	TM 2,6-Dinitrotoluene	0.265	0.302		-14.0	133	0.00
55	TMC Acenaphthene	1.329	1.335		-0.5	123	-0.01
56	TM 3-Nitroaniline	0.315	0.365		-15.9	139	0.00
57	TPM 2,4-Dinitrophenol	0.064	0.108	-30.9	<del>68.8#</del>	181	0.00
58	TM Dibenzofuran	1.641	1.688		-2.9	128	0.00
59	TM 2,4-Dinitrotoluene	0.327	0.404	-13.8	<del>23.5#</del>	141	0.00
60	TMP 4-Nitrophenol	0.188	0.157		16.5	101	0.02
61	TM Pentachlorobenzene	0.473	0.490		-3.6	127	0.00
62	TM 2,3,4,6-Tetrachlorophenol	0.229	0.257		-12.2	134	0.00
63	TM Fluorene	1.356	1.375		-1.4	125	0.00
64	TM 4-Chlorophenyl-phenylether	0.546	0.559		-2.4	126	0.00
65	TM Diethylphthalate	1.322	1.368		-3.5	130	-0.01
66	TM 4-Nitroaniline	0.362	0.409		-13.0	132	0.00
67	S SURR3,2,4,6-TRIBROMOPHENOL	0.191	0.215		-12.6	135	0.00
68	TM Octachlorocyclopentene	0.190	0.187		1.6	117	-0.01
69	IR dl0-Phenanthrene	1.000	1.000		0.0	127	0.00
70	TM 4,6-Dinitro-2-methylphenol	0.084	0.119	-21.8	<del>41.7#</del>	162	0.00
71	TM 1,2 Diphenylhydrazine	0.721	0.653		9.4	123	0.00
72	TCM N-Nitrosodiphenylamine	0.598	0.577		3.5	129	0.00
73	TM 4-Bromophenyl-phenylether	0.188	0.182		3.2	132	-0.01
74	TM Hexachlorobenzene	0.235	0.225		4.3	129	0.00
75	TM Atrazine	0.110	0.115		-4.5	130	0.00
76	TCM Pentachlorophenol	0.072	0.102	-19.1	<del>41.7#</del>	166	0.00
77	TM Phenanthrene	1.050	1.052		-0.2	130	0.00
78	TM Anthracene	1.047	1.079		-3.1	130	0.00
79	TM Carbazole	1.083	1.108		-2.3	128	0.00
80	TM Di-n-butylphthalate	1.302	1.396		-7.2	131	-0.01
81	TCM Fluoranthene	1.073	1.123		-4.7	129	0.00
82	IR dl2-Chrysene	1.000	1.000		0.0	128	0.00
83	TM Benzidine	0.788	0.819		-3.9	127	0.00
84	TM Pyrene	1.183	1.224		-3.5	129	0.00
85	S SURR6,TERPHENYL-D14	0.859	0.878		-2.2	128	0.00
86	TM Butyl benzyl phthalate	0.639	0.668		-4.5	130	-0.02
87	TM 3,3'-Dichlorobenzidine	0.523	0.558		-6.7	131	0.00
88	TM Benzo(a)anthracene	1.120	1.143		-2.1	130	0.00
89	TM Chrysene	1.048	1.050		-0.2	129	0.00
90	TM bis(2-Ethylhexyl)phthalate	0.860	0.960		-11.6	135	-0.02
91	IR dl2-Perylene	1.000	1.000		0.0	129	0.00
92	TCM Di-n-octyl phthalate	1.443	1.597		-10.7	135	-0.02
93	TM Benzo(b)fluoranthene	1.136	1.176		-3.5	131	0.01
94	TM Benzo(k)fluoranthene	1.074	1.093		-1.8	128	0.01
95	TCM Benzo(a)pyrene	0.977	1.032		-5.6	132	0.01
96	TM Indeno(1,2,3-cd)Pyrene	0.916	1.075		-17.4	147	0.02
97	TM Dibenz(a,h)anthracene	1.001	1.115		-11.4	139	0.02
98	TM Benzo(g,h,i)perylene	0.916	1.055		-15.2	149	0.03

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM053.D  
Acq On : 27 Feb 2018 9:32 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:52:56 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)
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(#) = Out of Range                      SPCC's out = 0    CCC's out = 1

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM053.D  
 Acq On : 27 Feb 2018 9:32 am  
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.793	152	196342	40.00	ppm	-0.01
24) d8-Naphthalene	5.958	136	765214	40.00	ppm	-0.01
42) d10-Acenaphthene	7.667	164	364226	40.00	ppm	-0.01
69) d10-Phenanthrene	9.141	188	642070	40.00	ppm	0.00
82) d12-Chrysene	12.436	240	609919	40.00	ppm	0.00
91) d12-Perylene	15.390	264	624442	40.00	ppm	0.00

System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.730	112	513373	80.74	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	40.37%
8) SURR2,PHENOL-D6	4.478	99	634700	80.51	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	40.26%
25) SURR4,NITROBENZENE-D5	5.290	82	476807	84.71	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	84.71%
48) SURR5,2-FLUOROBIPHENYL	6.999	172	1033388	80.28	ppm	-0.01
Spiked Amount	100.000	Range	39 - 119	Recovery	=	80.28%
67) SURR3,2,4,6-TRIBROMOPH...	8.452	330	156300	89.99	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	44.99%
85) SURR6,TERPHENYL-D14	10.834	244	1071085	81.77	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	81.77%

Target Compounds						Qvalue
2) Pyridine	2.732	79	477337	74.805	ppm	91
3) N-Nitrosodimethylamine	2.694	74	237838	76.331	ppm	96
5) N-Nitrosodiethylamine	3.896	102	290029	82.387	ppm	94
6) Benzaldehyde	4.425	106	335309	80.441	ppm	98
7) Aniline	4.510	93	887683	77.704	ppm	98
9) Phenol	4.489	94	683740	87.951	ppm	99
10) bis(2-Clethyl)Ether	4.553	93	451299	77.800	ppm	95
11) 2-Chlorophenol	4.617	128	537815	82.990	ppm	99
12) 1,3-Diclbzene	4.745	146	558944	80.485	ppm	99
13) 1,4-Dichlorobenzene	4.809	146	571601	80.541	ppm	99
14) 1,2-Diclbzene	4.943	146	542947	80.968	ppm	98
15) Benzyl Alcohol	4.911	79	374738	80.878	ppm	97
16) 1-Methyl-2-pyrrolidinone	4.964	99	341159	82.355	ppm	94
17) 2,2'-oxybis(1-Chloropr...	5.018	45	346176	65.905	ppm	80
18) 2-Methylphenol	5.028	108	474672	81.534	ppm	96
19) 3+4-Methylphenol	5.156	108	567768	89.890	ppm	96
20) Acetophenone	5.146	105	666210	78.642	ppm	87
21) N-Nitroso-Di-n-propyla...	5.146	70	319444	76.166	ppm	86
22) Hexachloroethane	5.242	117	209382	80.068	ppm	95
23) Alpha-terpinol	5.979	121	185119	82.575	ppm	94
26) Nitrobenzene	5.306	77	470691	81.311	ppm	90
27) Isophorone	5.525	82	876938	78.947	ppm	98
28) 2-Nitrophenol	5.600	139	278453	96.957	ppm	96
29) 2,4-Dimethylphenol	5.642	107	506170	83.065	ppm	99
30) bis(-2-Chloroethoxy)Me...	5.717	93	545290	79.752	ppm	99
31) Benzoic Acid	5.749	105	252938	94.545	ppm	94
32) 2,4-Dichlorophenol	5.840	162	399906	84.166	ppm	98
33) 1,2,4-Trichlorobenzene	5.899	180	424857	81.502	ppm	99
34) Naphthalene	5.979	128	1513547	79.584	ppm	99
35) 4-Chloroaniline	6.038	127	724148	81.516	ppm	98
36) 2,6-Dichlorophenol	6.043	162	429802	82.877	ppm	98
37) Hexachlorobutadiene	6.086	225	211556	82.983	ppm	100
38) 4-Chloro-3-methylphenol	6.513	107	401802	83.609	ppm	99

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM053.D  
 Acq On : 27 Feb 2018 9:32 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 27 09:52:56 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Caprolactam	6.390	113	167885	84.757	ppm	93
40) 2-Methylnaphthalene	6.647	142	995968	81.338	ppm	98
41) 1-Methylnaphthalene	6.743	142	920355	80.479	ppm	99
43) Hexachlorocyclopentadiene	6.791	237	196373	75.400	ppm	95
44) 1,2,4,5-Tetrachloroben...	6.807	216	401320	82.782	ppm	97
45) 1,2,3,4-Tetrachloroben...	7.085	216	385905	81.989	ppm	98
46) 2,4,6-Trichlorophenol	6.930	196	259772	86.561	ppm	98
47) 2,4,5-Trichlorophenol	6.978	196	265329	84.093	ppm	99
49) 1,1'-Biphenyl	7.101	154	1199893	81.925	ppm	99
50) 2-Chloronaphthalene	7.127	162	877102	81.546	ppm	99
51) 2-Nitroaniline	7.234	65	206012	91.329	ppm	91
52) Acenaphthylene	7.533	152	1446456	81.773	ppm	99
53) Dimethyl phthalate	7.400	163	958772	80.130	ppm	99
54) 2,6-Dinitrotoluene	7.464	165	219703	90.908	ppm	97
55) Acenaphthene	7.699	153	972166	80.361	ppm	99
56) 3-Nitroaniline	7.640	138	266085	92.885	ppm	89
57) 2,4-Dinitrophenol	7.747	184	78861	104.721	ppm	96
58) Dibenzofuran	7.870	168	1229570	82.265	ppm	100
59) 2,4-Dinitrotoluene	7.870	165	294047	91.020	ppm	91
60) 4-Nitrophenol	7.838	65	114687	67.082	ppm	# 72
61) Pentachlorobenzene	7.827	250	356925	82.862	ppm	98
62) 2,3,4,6-Tetrachlorophenol	8.003	232	187378	89.960	ppm	95
63) Fluorene	8.211	166	1001605	81.130	ppm	99
64) 4-Chlorophenyl-phenyle...	8.206	204	407216	81.941	ppm	94
65) Diethylphthalate	8.089	149	996861	82.826	ppm	97
66) 4-Nitroaniline	8.249	138	297975	90.466	ppm	94
68) Octachlorocyclopentene	8.452	307	136395	79.042	ppm	97
70) 4,6-Dinitro-2-methylph...	8.276	198	153327	97.452	ppm	84
71) 1,2 Diphenylhydrazine	8.361	77	838568	72.439	ppm	98
72) N-Nitrosodiphenylamine	8.329	169	1482383	154.333	ppm	99
73) 4-Bromophenyl-phenylether	8.687	248	234126	77.417	ppm	96
74) Hexachlorobenzene	8.751	284	288995	76.754	ppm	96
75) Atrazine	8.858	215	147647	83.849	ppm	99
76) Pentachlorophenol	8.959	266	130746	95.289	ppm	99
77) Phenanthrene	9.162	178	1351435	80.200	ppm	99
78) Anthracene	9.216	178	1385214	82.396	ppm	98
79) Carbazole	9.381	167	1422561	81.869	ppm	99
80) Di-n-butylphthalate	9.702	149	1792681	85.761	ppm	98
81) Fluoranthene	10.385	202	1441450	83.683	ppm	99
83) Benzidine	10.546	184	998738	83.161	ppm	99
84) Pyrene	10.652	202	1492769	82.721	ppm	99
86) Butyl benzyl phthalate	11.512	149	814609	83.644	ppm	98
87) 3,3'-Dichlorobenzidine	12.388	252	680564	85.389	ppm	98
88) Benzo(a)anthracene	12.415	228	1394043	81.602	ppm	99
89) Chrysene	12.479	228	1281247	80.204	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.495	149	1170717	89.247	ppm	97
92) Di-n-octyl phthalate	13.830	149	1994307	88.548	ppm	97
93) Benzo(b)Fluoranthene	14.567	252	1468343	82.810	ppm	98
94) Benzo(k)fluoranthene	14.626	252	1365028	81.431	ppm	99
95) Benzo(a)pyrene	15.267	252	1288314	84.489	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.345	276	1342557	93.934	ppm	99
97) Dibenz(a,h)anthracene	17.393	278	1392266	89.109	ppm	100
98) Benzo(g,h,i)perylene	17.809	276	1317794	92.180	ppm	99

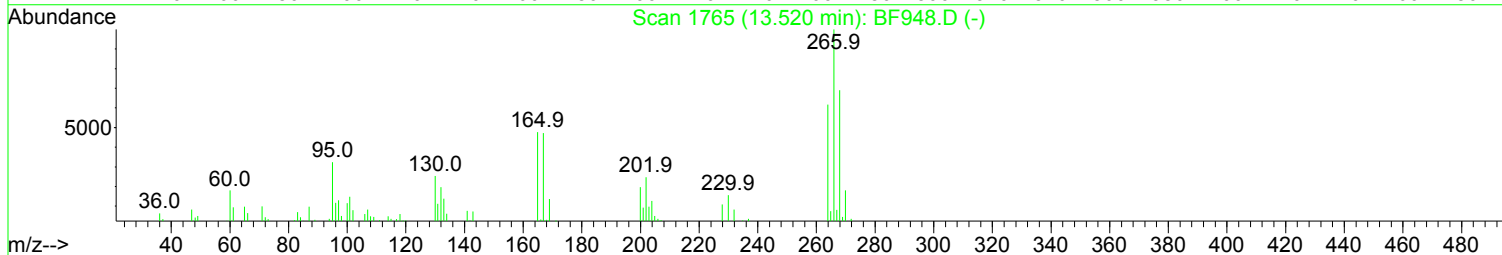
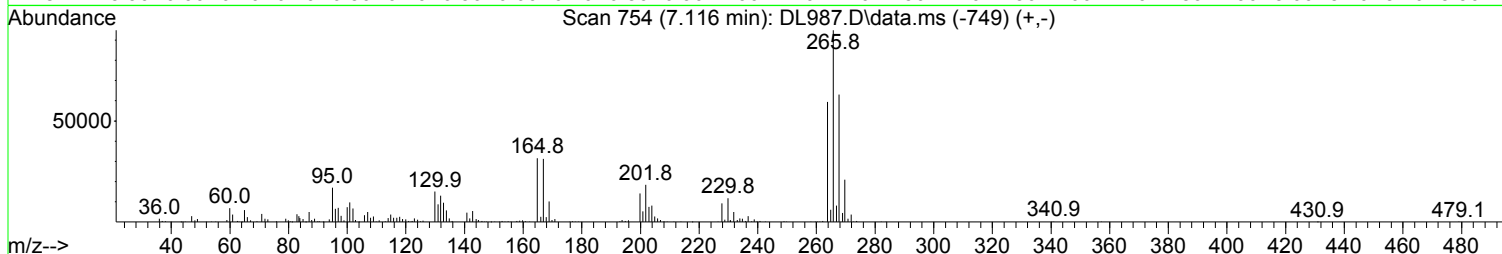
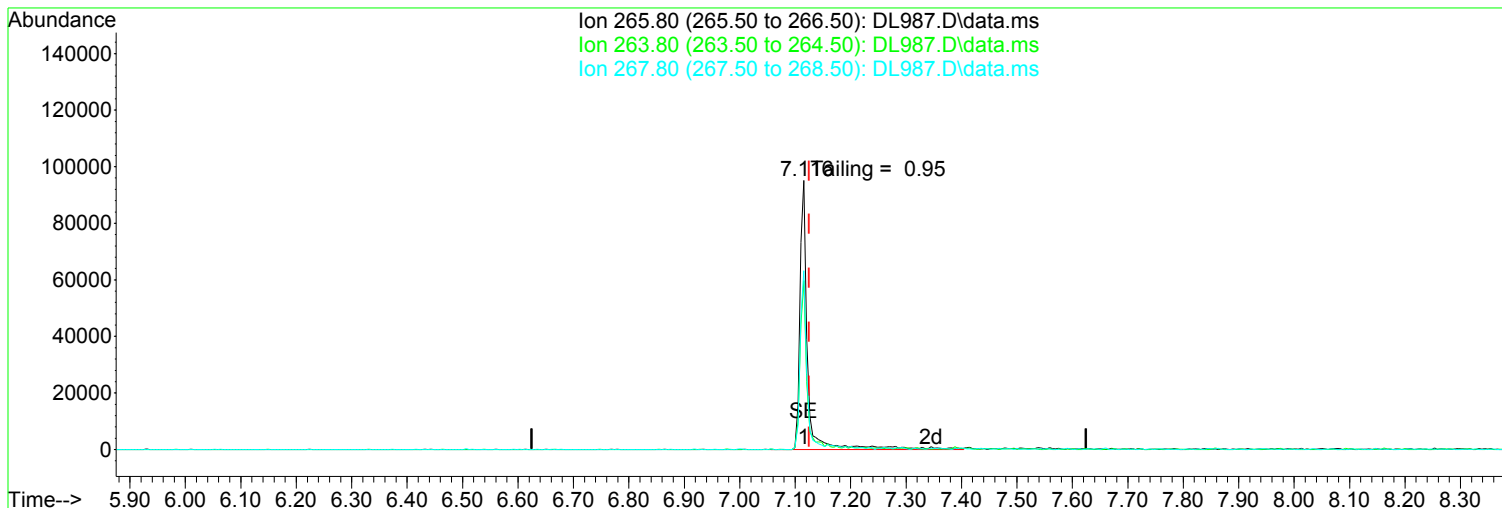
(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL987.D  
Acq On : 22 Feb 2018 1:49 pm  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 14:14:36 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DL987.D\data.ms

(5) Pentachlorophenol (TCM)

Manual Integration:

7.116min (-0.009) 66.07 ppm

After

response 91715

Other - Tailing

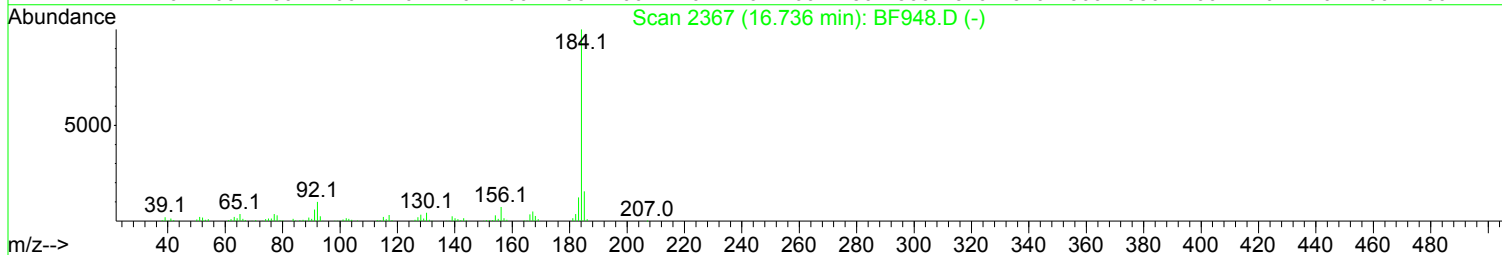
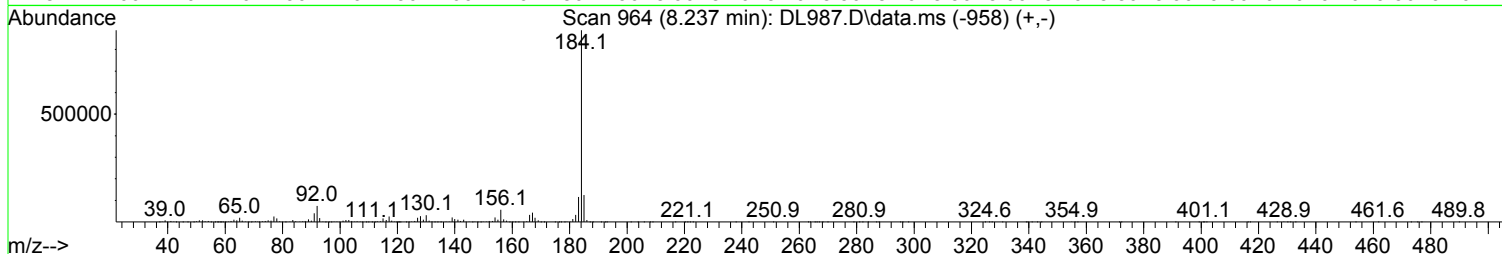
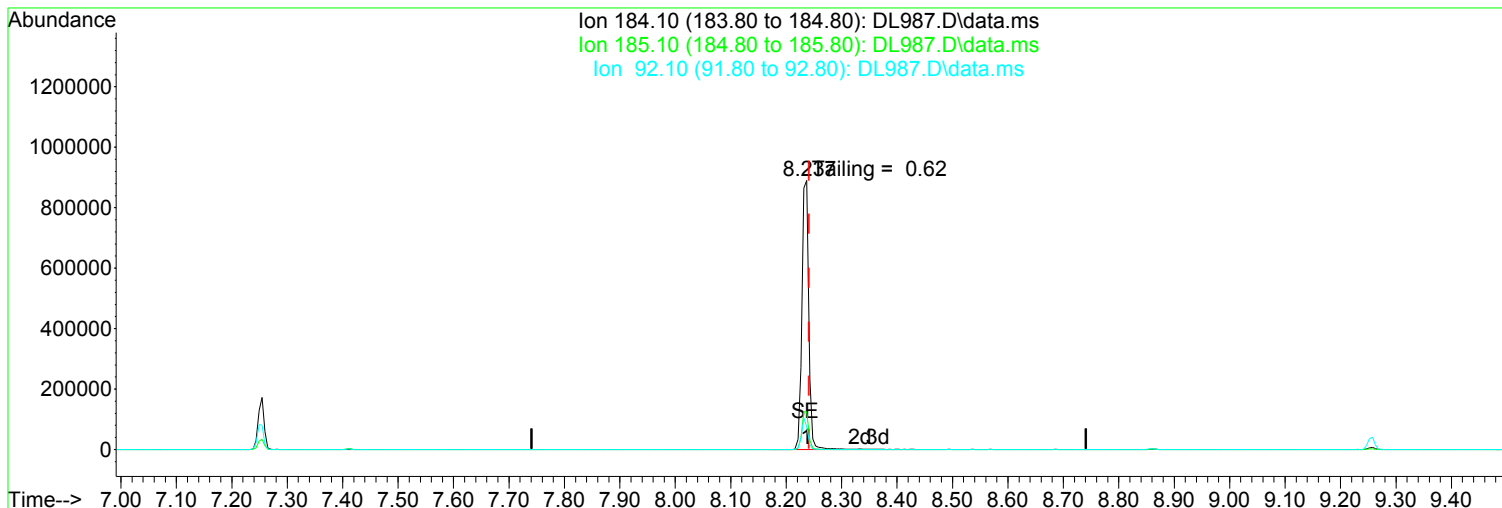
Ion	Exp%	Act%
265.80	100.00	100.00
263.80	63.50	62.66
267.80	64.20	66.51
0.00	0.00	0.00

02/26/18



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL987.D  
Acq On : 22 Feb 2018 1:49 pm  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 14:14:36 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DL987.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.237min (-0.004) 48.77 ppm

After

response 760717

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.80	14.07
92.10	10.10	8.42
0.00	0.00	0.00

02/26/18

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL987.D  
 Acq On : 22 Feb 2018 1:49 pm  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

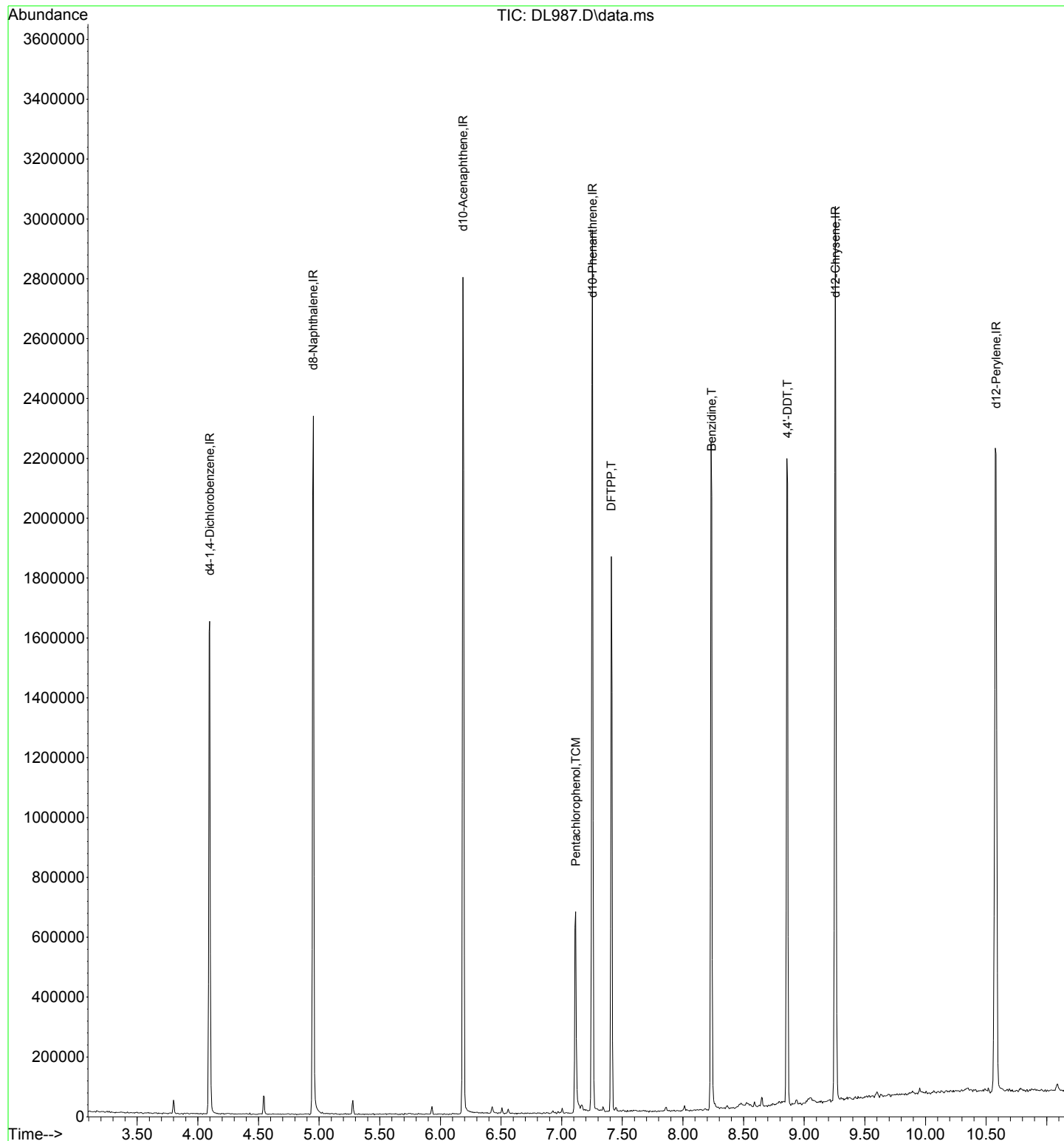
Quant Time: Feb 22 14:14:36 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 07:26:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.098	152	259310	40.00	ppm	0.00	
2) d8-Naphthalene	4.952	136	991958	40.00	ppm	0.00	
3) d10-Acenaphthene	6.186	164	492168	40.00	ppm	-0.01	
4) d10-Phenanthrene	7.254	188	885303	40.00	ppm	0.00	
7) d12-Chrysene	9.257	240	797630	40.00	ppm	0.00	
12) d12-Perylene	10.582	264	849288	40.00	ppm	0.00	
Target Compounds							
5) Pentachlorophenol	7.116	266	91715	66.068	ppm		Qvalue 98
6) DFTPP	7.409	198	131629	49.522	ppm		92
8) Benzidine	8.237	184	760717	48.768	ppm		97
9) 4,4'-DDE	7.409	246	1894	N.D.			
10) 4,4'-DDD	8.654	235	5273	N.D.			
11) 4,4'-DDT	8.862	235	354284	54.725	ppm		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022218\  
Data File : DL987.D  
Acq On : 22 Feb 2018 1:49 pm  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

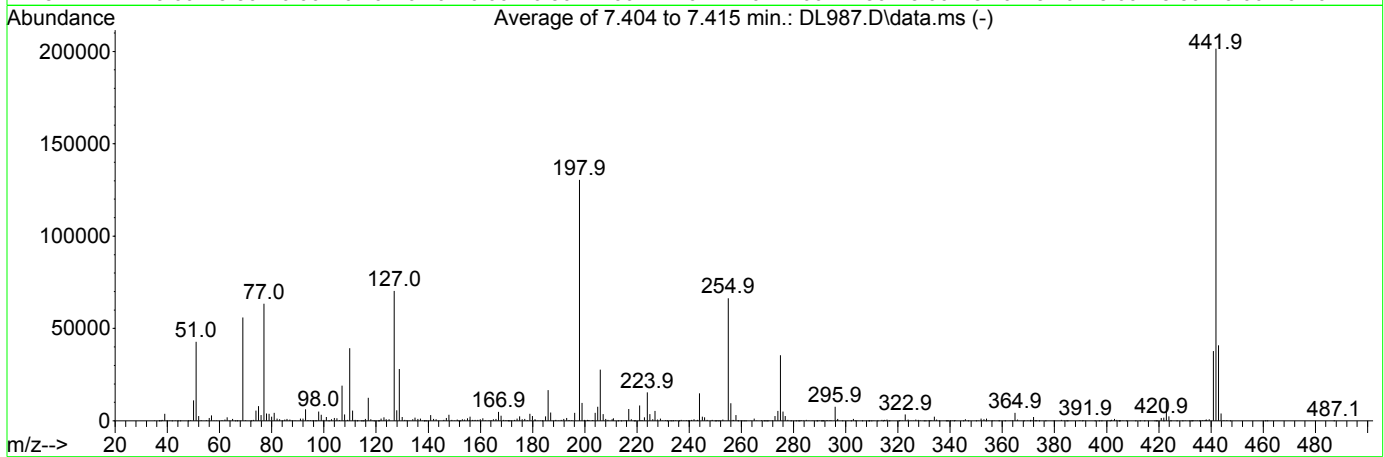
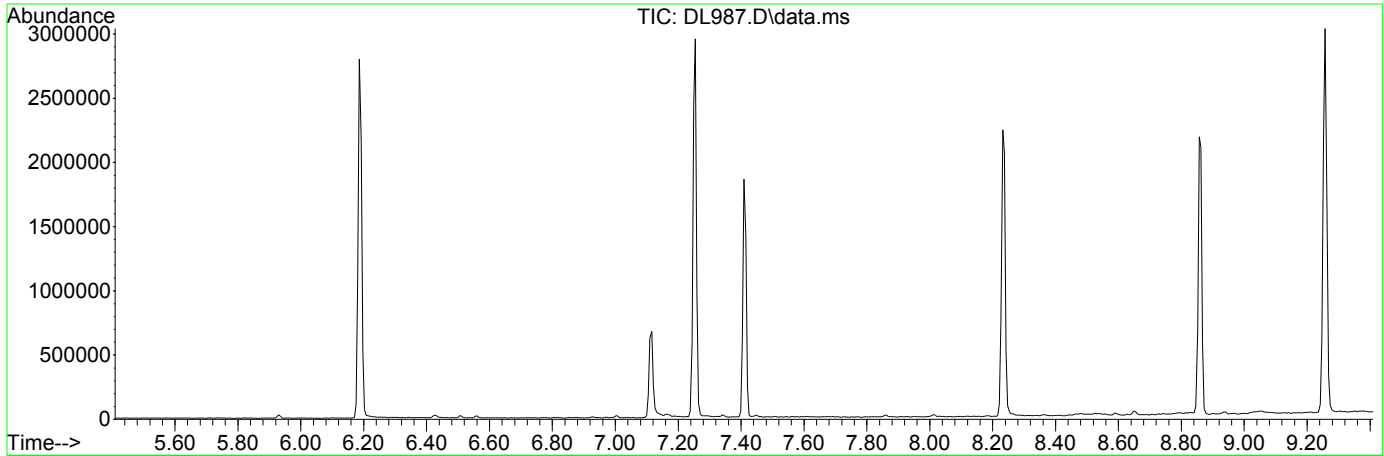
Quant Time: Feb 22 14:14:36 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\022218\  
 Data File : DL987.D  
 Acq On : 22 Feb 2018 1:49 pm  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 07:26:38 2018

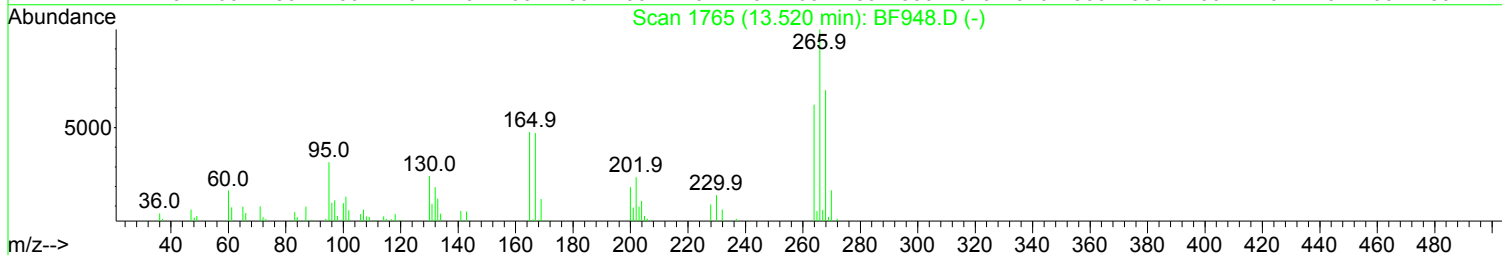
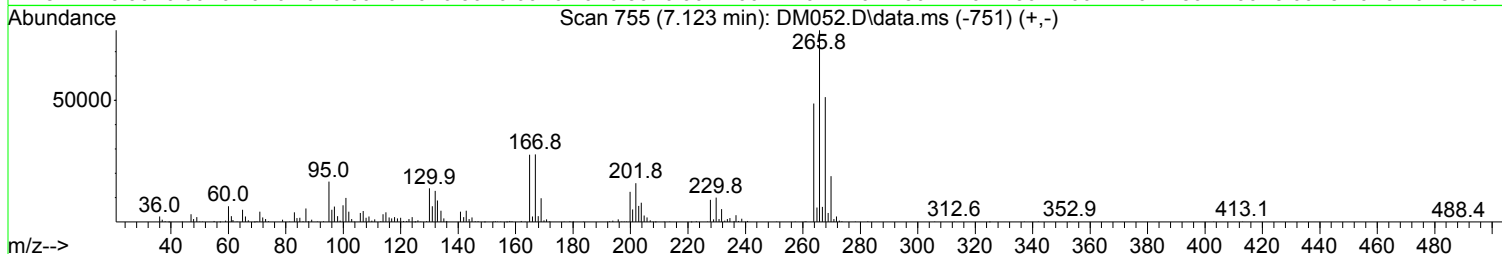
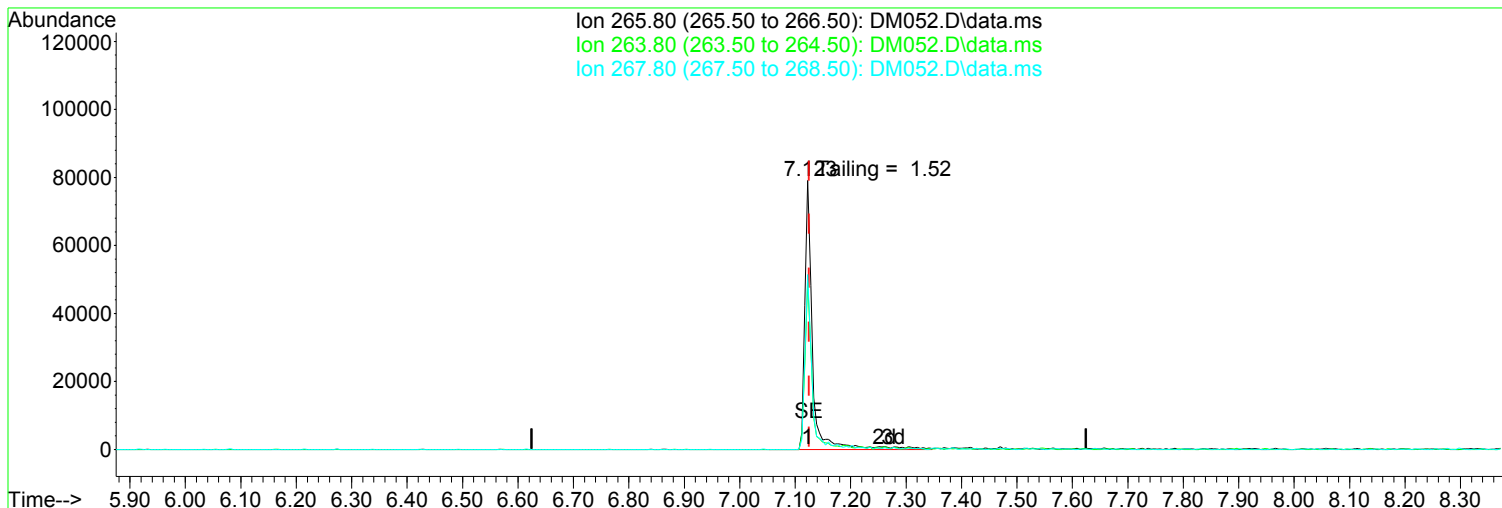


AutoFind: Scans 808, 809, 810; Background Corrected with Scan 804

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.9	42874	PASS
68	69	0.00	2	0.3	169	PASS
69	198	0.00	100	42.9	55941	PASS
70	69	0.00	2	0.5	266	PASS
127	198	10	80	53.8	70256	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	130509	PASS
199	198	5	9	7.4	9636	PASS
275	198	10	60	27.2	35556	PASS
365	198	1	500	3.3	4372	PASS
441	442	0.01	24	18.8	37789	PASS
442	442	100	100	100.0	201461	PASS
443	442	15	24	20.3	40902	PASS

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM052.D  
Acq On : 27 Feb 2018 9:03 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 09:29:03 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DM052.D\data.ms

(5) Pentachlorophenol (TCM)

Manual Integration:

7.123min (-0.002) 62.62 ppm

After

response 73414

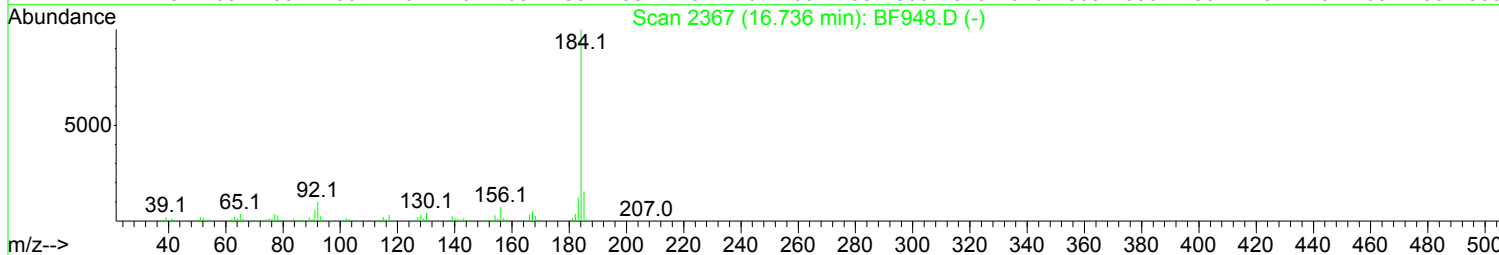
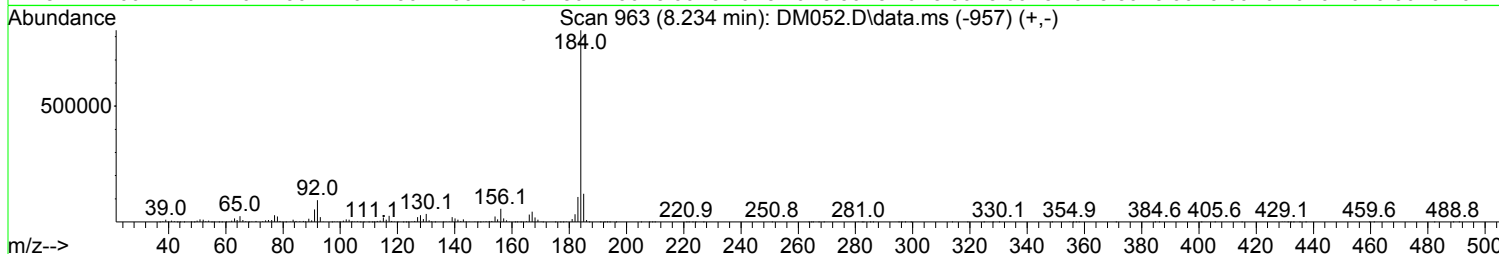
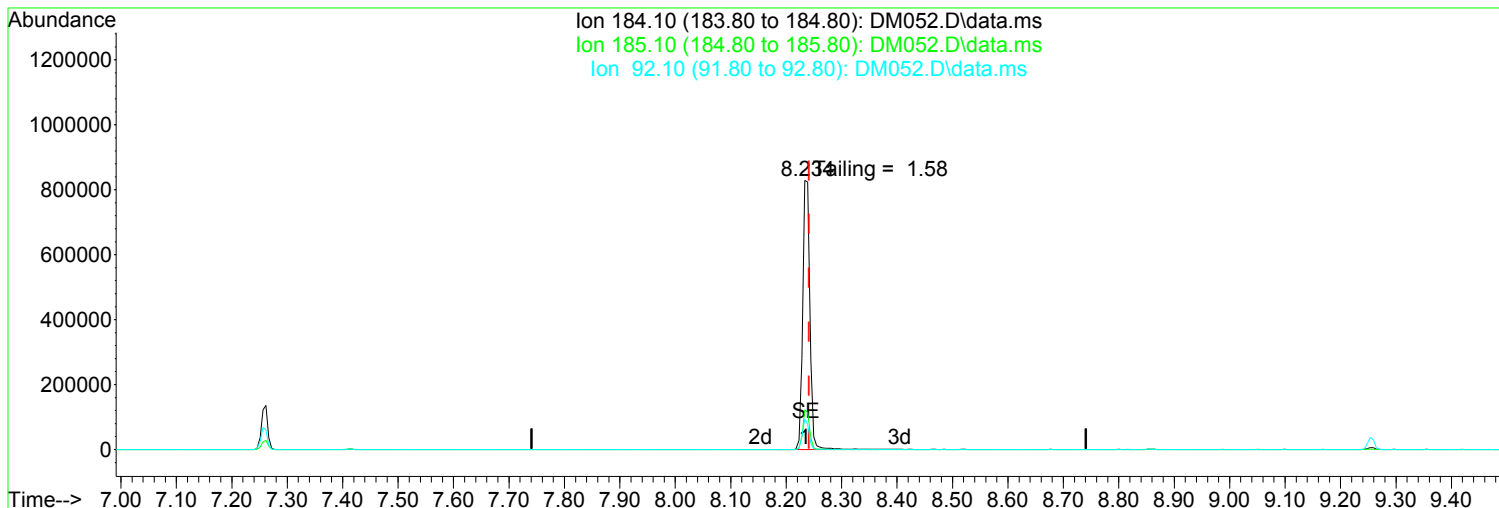
Other - Tailing

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	63.50	61.86
267.80	64.20	65.05
0.00	0.00	0.00

02/28/18

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM052.D  
Acq On : 27 Feb 2018 9:03 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 09:29:03 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DM052.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.234min (-0.008) 52.20 ppm

After

response 744742

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.80	14.69
92.10	10.10	11.43
0.00	0.00	0.00

02/28/18

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM052.D  
 Acq On : 27 Feb 2018 9:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

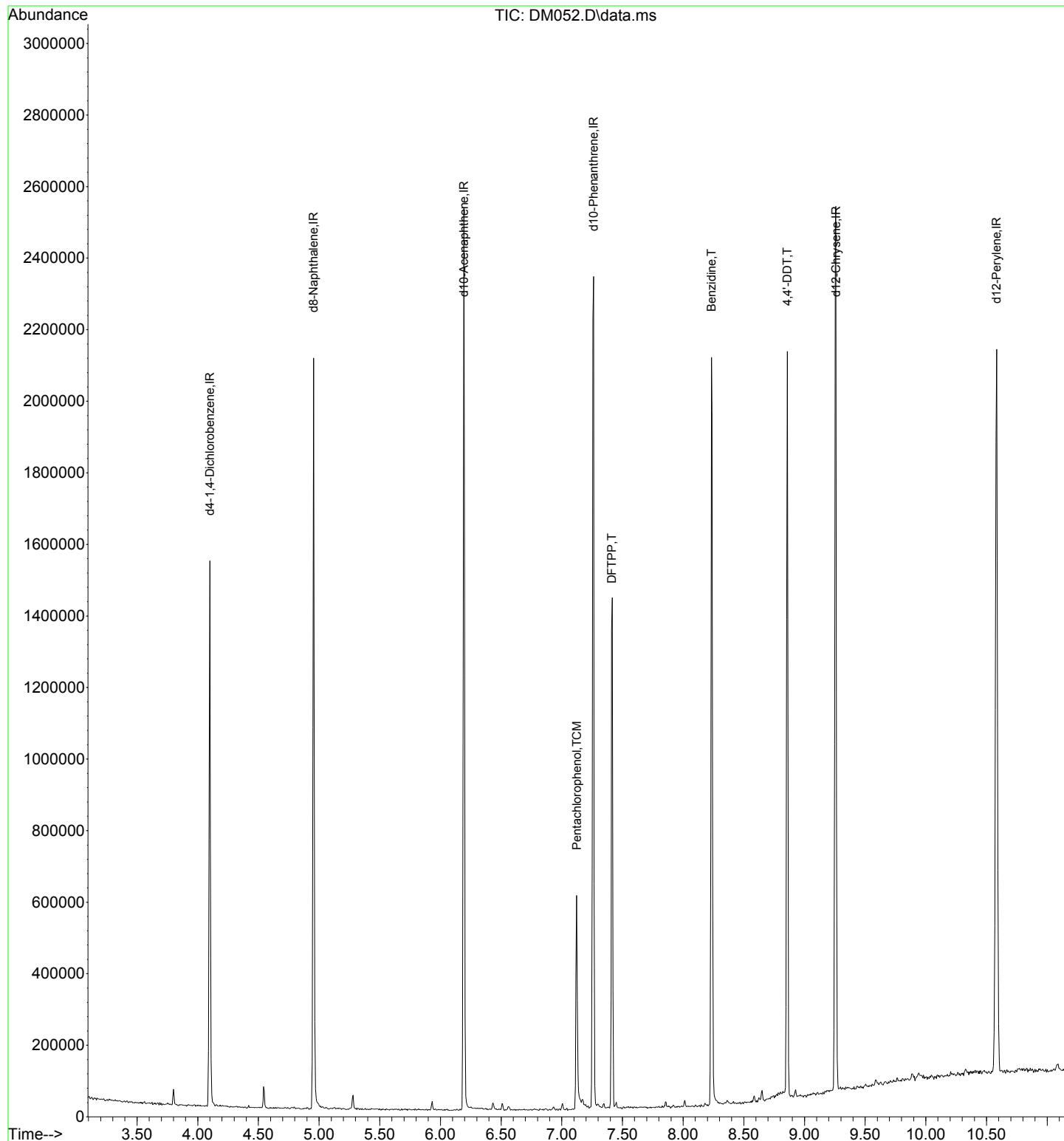
Quant Time: Feb 27 09:29:03 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 07:26:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.100	152	212109	40.00	ppm	0.00
2) d8-Naphthalene	4.954	136	804703	40.00	ppm	0.00
3) d10-Acenaphthene	6.193	164	407053	40.00	ppm	0.00
4) d10-Phenanthrene	7.261	188	747623	40.00	ppm	0.00
7) d12-Chrysene	9.259	240	729565	40.00	ppm	0.00
12) d12-Perylene	10.584	264	792075	40.00	ppm	0.00
Target Compounds						
5) Pentachlorophenol	7.123	266	73414	62.624	ppm	98
6) DFTPP	7.411	198	112634	50.179	ppm	80
8) Benzidine	8.234	184	744742	52.198	ppm	98
9) 4,4'-DDE	7.411	246	1476	N.D.		
10) 4,4'-DDD	8.650	235	3460	N.D.		
11) 4,4'-DDT	8.858	235	298862	50.471	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
Data File : DM052.D  
Acq On : 27 Feb 2018 9:03 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 09:29:03 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration

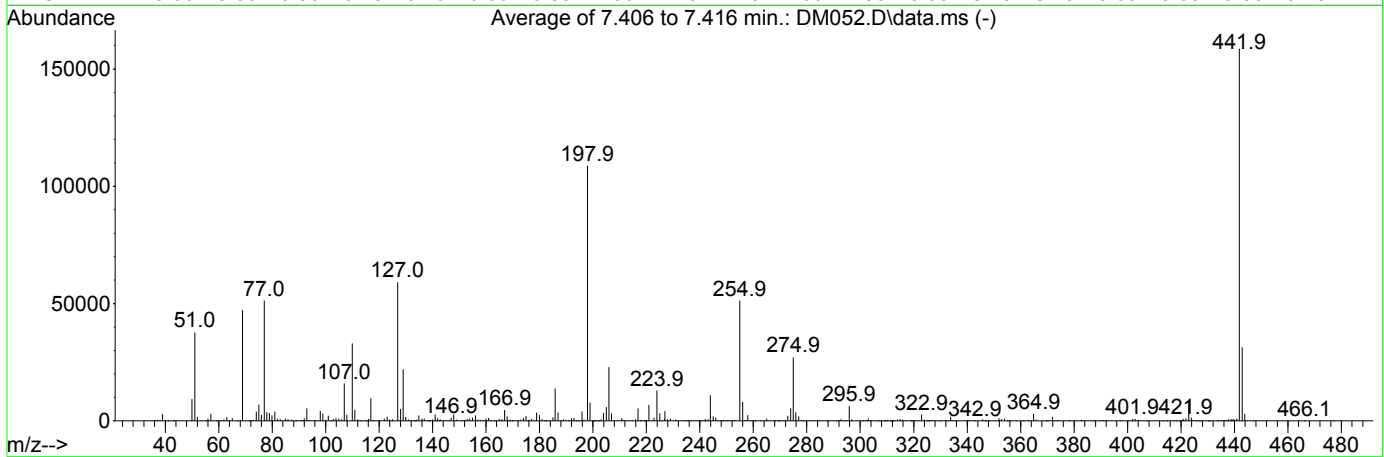
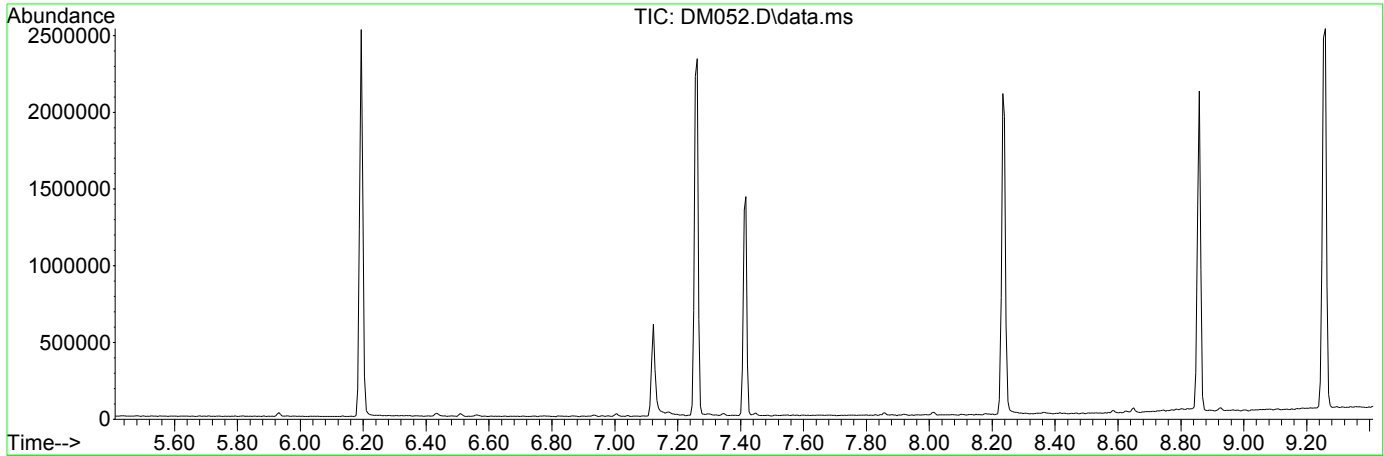




Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM052.D  
 Acq On : 27 Feb 2018 9:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Wed Oct 03 16:33:08 2012



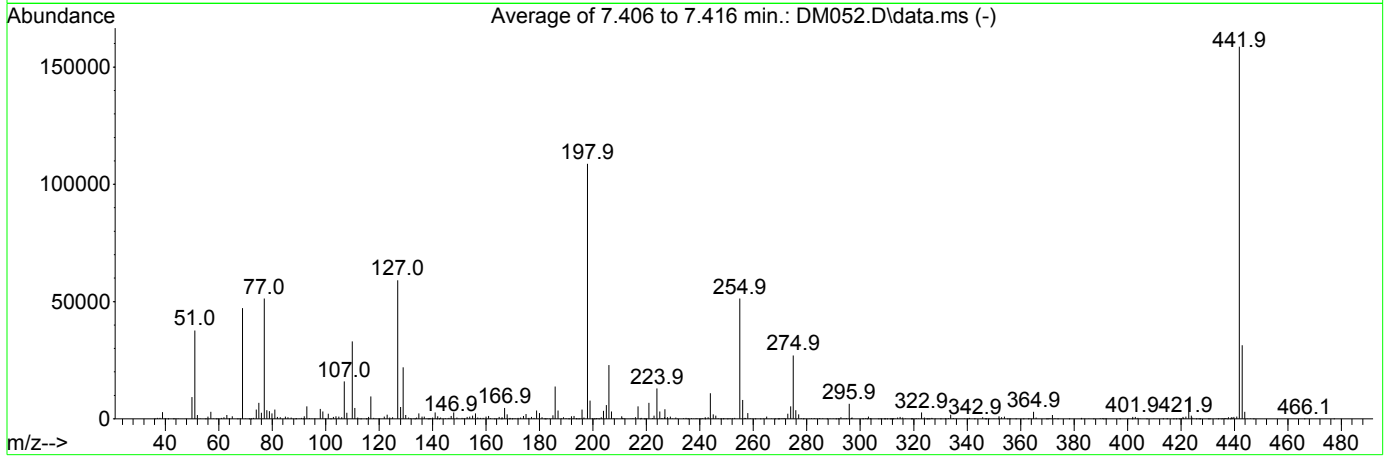
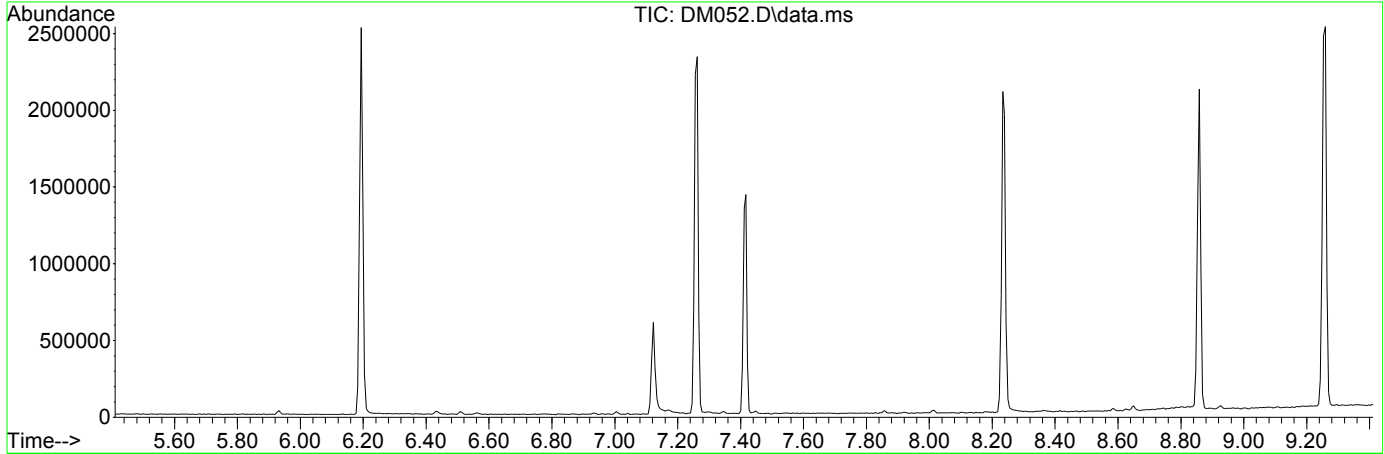
AutoFind: Scans 808, 809, 810; Background Corrected with Scan 804

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.6	37675	PASS
68	69	0.00	2	0.7	328	PASS
69	198	0.00	100	43.4	47237	PASS
70	69	0.00	2	0.3	128	PASS
127	198	40	60	54.3	59064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	108763	PASS
199	198	5	9	7.2	7831	PASS
275	198	10	30	24.9	27072	PASS
365	198	1	500	2.8	3049	PASS
441	443	0.01	100	2.9	908	PASS
442	198	50	500	145.9	158681	PASS
443	442	17	23	19.8	31432	PASS

Data Path : I:\ACQUDATA\5973A\DATA\022718\  
 Data File : DM052.D  
 Acq On : 27 Feb 2018 9:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 07:26:38 2018



AutoFind: Scans 808, 809, 810; Background Corrected with Scan 804

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.6	37675	PASS
68	69	0.00	2	0.7	328	PASS
69	198	0.00	100	43.4	47237	PASS
70	69	0.00	2	0.3	128	PASS
127	198	10	80	54.3	59064	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	108763	PASS
199	198	5	9	7.2	7831	PASS
275	198	10	60	24.9	27072	PASS
365	198	1	500	2.8	3049	PASS
441	442	0.01	24	0.6	908	PASS
442	442	100	100	100.0	158681	PASS
443	442	15	24	19.8	31432	PASS

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL632.D  
 Acq On : 23 Jan 2018 4:10 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.803	152	171646	40.00	ppm	0.00	
33) d8-Naphthalene	5.967	136	645772	40.00	ppm	0.00	
57) d10-Acenaphthene	7.676	164	306677	40.00	ppm	0.00	
91) d10-Phenanthrene	9.145	188	520588	40.00	ppm	0.00	
117) d12-Chrysene	12.435	240	494740	40.00	ppm	0.00	
135) d12-Perylene	15.378	264	493790	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.735	112	430986	77.53	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	38.77%	
12) SURR2,PHENOL-D6	4.477	99	542406	78.70	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	39.35%	
34) SURR4,NITROBENZENE-D5	5.300	82	399513	84.11	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	84.11%	
63) SURR5,2-FLUOROBIPHENYL	7.009	172	840968	77.59	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	77.59%	
88) SURR3,2,4,6-TRIBROMOPH...	8.456	330	115884	79.24	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	39.62%	
124) SURR6,TERPHENYL-D14	10.844	244	832816	78.39	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	78.39%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.757	79	463344	83.060	ppm		98
3) N-Nitrosodimethylamine	2.720	74	239551	87.942	ppm		98
4) 2-Picoline	3.302	93	496445	83.889	ppm		99
5) N-Nitrosomethylamine	3.377	42	158673	77.242	ppm		96
6) Methyl Methansulfonate	3.601	80	189615	79.512	ppm		98
8) N-Nitrosodiethylamine	3.911	102	138354	44.956	ppm		98
9) Ethyl Mathanesulfonate	4.141	79	300866	78.704	ppm		99
10) Benzaldehyde	4.434	106	304992	83.695	ppm		97
11) Aniline	4.520	93	782166	78.318	ppm		87
13) Phenol	4.488	94	557108	81.972	ppm		92
14) bis(2-Clethyl)Ether	4.562	93	423626	83.536	ppm		98
15) Pentachloroethane	4.562	117	157140	77.991	ppm		98
16) 2-Chlorophenol	4.627	128	460455	81.276	ppm		97
17) 1,3-Diclbzene	4.755	146	483122	79.576	ppm		99
18) 1,4-Dichlorobenzene	4.819	146	475063	76.570	ppm		100
19) 1,2-Diclbzene	4.952	146	465591	79.422	ppm		98
20) Benzyl Alcohol	4.915	79	332608	82.114	ppm		99
21) 1-Methyl-2-pyrrolidinone	4.968	99	298773	82.500	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.027	45	442089	96.274	ppm		87
23) 2-Methylphenol	5.027	108	395426	77.695	ppm		90
24) 3+4-Methylphenol	5.155	108	435831	78.930	ppm		99
25) Acetophenone	5.155	105	576575	77.854	ppm		99
26) N-Nitroso-Di-n-propyla...	5.155	70	302173	82.414	ppm		95
27) N-Nitrosopyrrolidine	5.145	100	245130	82.221	ppm		89
28) N-Nitrosomorpholine	5.177	56	220756	81.304	ppm		98
29) o-Toluidine	5.187	106	726924	82.034	ppm		91
30) Hexachloroethane	5.257	117	179578	78.551	ppm		99
31) o,o,o-Triethylphosphor...	5.695	198	182507	80.546	ppm		94
32) Alpha-terpinol	5.994	121	154435	78.800	ppm		94
35) Nitrobenzene	5.316	77	467008	95.596	ppm		95
36) N-Nitrosopiperidine	5.454	42	209188	81.759	ppm		99
37) Isophorone	5.529	82	870939	92.909	ppm		97
38) 2-Nitrophenol	5.604	139	223043	92.028	ppm		98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL632.D  
 Acq On : 23 Jan 2018 4:10 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.641	107	417607	81.207	ppm	95
40) bis(-2-Chloroethoxy)Me...	5.727	93	480559	83.284	ppm	99
41) Benzoic Acid	5.737	105	186878	85.097	ppm	94
42) 2,4-Dichlorophenol	5.839	162	340398	84.893	ppm	95
43) a,a-Dimethylphenethyla...	5.983	58	852408m	84.434	ppm	
44) 1,2,4-Trichlorobenzene	5.908	180	353982	80.466	ppm	99
45) Naphthalene	5.989	128	1322212	82.382	ppm	100
46) 4-Chloroaniline	6.042	127	350386	46.737	ppm	99
47) 2,6-Dichlorophenol	6.047	162	337131	77.031	ppm	96
48) Hexachlorobutadiene	6.101	225	170703	79.343	ppm	95
49) Hexachloropropene	6.069	213	205892	82.622	ppm	98
50) 4-Chloro-3-methylphenol	6.512	107	335544	82.736	ppm	100
51) N-N-di-n-butylamine	6.357	84	270873	76.624	ppm	95
52) Caprolactam	6.394	113	136498	81.657	ppm	99
53) p-Phenylenediamine	6.389	80	40337	184.580	ppm	88
54) Safrole	6.565	162	205538	46.812	ppm	99
55) 2-Methylnaphthalene	6.656	142	819515	79.307	ppm	98
56) 1-Methylnaphthalene	6.752	142	767701	79.547	ppm	97
58) Hexachlorocyclopentadiene	6.800	237	179707	81.949	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.816	216	316958	77.649	ppm	97
60) 1,2,3,4-Tetrachloroben...	7.094	216	306233	77.271	ppm	99
61) 2,4,6-Trichlorophenol	6.929	196	212183	83.971	ppm	99
62) 2,4,5-Trichlorophenol	6.977	196	215781	81.223	ppm	98
64) Isosafrole	7.073	104	127143	75.617	ppm	# 1
65) 1,1'-Biphenyl	7.110	154	977896	79.297	ppm	99
66) 2-Chloronaphthalene	7.132	162	714178	78.858	ppm	97
67) 2-Nitroaniline	7.233	65	169817	89.410	ppm	94
68) 1,4-Naphthoquinone	7.308	158	231130	78.493	ppm	98
69) m-Dinitrobenzene	7.447	168	114642	86.737	ppm	94
70) Acenaphthylene	7.537	152	1226166	82.327	ppm	99
71) Dimethyl phthalate	7.409	163	757385	75.177	ppm	99
72) 2,6-Dinitrotoluene	7.473	165	201067	98.809	ppm	95
73) Acenaphthene	7.708	153	822273	80.725	ppm	98
74) 3-Nitroaniline	7.639	138	207249	85.922	ppm	98
75) 2,4-Dinitrophenol	7.746	184	63956	102.315	ppm	89
76) Dibenzofuran	7.879	168	1005931	79.932	ppm	99
77) 2,4-Dinitrotoluene	7.869	165	260338	94.733	ppm	96
78) 4-Nitrophenol	7.826	65	126337	87.763	ppm	96
79) Pentachlorobenzene	7.837	250	282753	77.960	ppm	96
80) 1-Naphthylamine	7.959	143	644414	99.421	ppm	96
81) 2-Naphthylamine	8.040	143	729888	82.666	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.002	232	148932	84.919	ppm	97
83) Fluorene	8.216	166	852077	81.970	ppm	98
84) 4-Chlorophenyl-phenyle...	8.216	204	355591	84.980	ppm	95
85) Diethylphthalate	8.104	149	765451	75.533	ppm	99
86) 4-Nitroaniline	8.248	138	224580	80.978	ppm	99
87) 5-Nitro-o-toluidine	8.237	152	249455	88.354	ppm	99
89) Sulfotepp	8.483	322	143343	84.811	ppm	91
90) Octachlorocyclopentene	8.467	307	123230	84.814	ppm	96
92) Thionazin	8.184	107	132409	76.964	ppm	91
93) 4,6-Dinitro-2-methylph...	8.269	198	107598	87.492	ppm	95
94) Diphenylamine	8.333	169	1223746	157.143	ppm	98
95) 1,2 Diphenylhydrazine	8.371	77	722861	77.015	ppm	100
96) N-Nitrosodiphenylamine	8.333	169	1223746	157.136	ppm	98
97) 1,3,5-Trinitrobenzene	8.606	74	95594	87.978	ppm	# 73
98) Diallate	8.611	86	265752	72.802	ppm	98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL632.D  
 Acq On : 23 Jan 2018 4:10 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

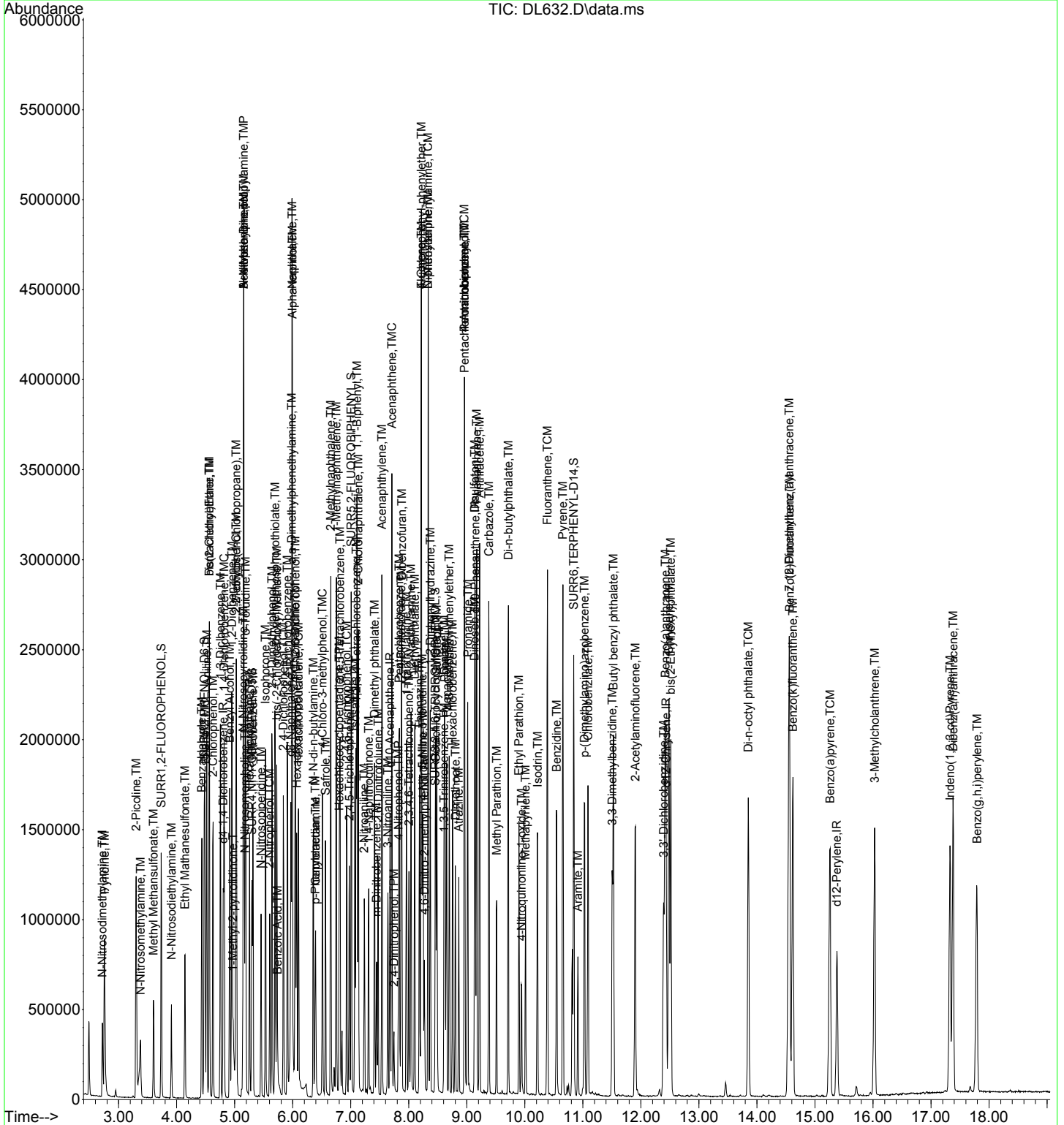
Quant Time: Jan 24 07:57:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.622	121	144094	78.451	ppm	98
100) Phenacetin	8.654	108	420256	83.555	ppm	95
101) 4-Bromophenyl-phenylether	8.696	248	199113	81.203	ppm	98
102) Hexachlorobenzene	8.755	284	222722	72.956	ppm	98
103) Dimethoate	8.803	87	237919	79.796	ppm	95
104) Atrazine	8.862	215	66944	46.889	ppm	97
105) Pentachlorophenol	8.958	266	100852	92.071	ppm	99
106) 4-Aminobiphenyl	8.958	169	844757	85.479	ppm	99
107) Pentachloronitrobenzene	8.963	237	75957	89.660	ppm	92
108) Pronamide	9.017	173	347399	82.375	ppm	99
109) Dinoseb	9.134	211	141388	82.079	ppm	94
110) Disulfoton	9.140	88	297125	86.831	ppm	97
111) Phenanthrene	9.172	178	1112359	81.416	ppm	99
112) Anthracene	9.220	178	1131618	83.019	ppm	100
113) Carbazole	9.380	167	1108058	78.650	ppm	99
114) Di-n-butylphthalate	9.717	149	1379932	81.420	ppm	99
115) 4-Nitroquinonline-1-oxide	9.946	190	77936	85.211	ppm	95
116) Fluoranthene	10.390	202	1201271	86.014	ppm	99
118) Methyl Parathion	9.514	109	183543	92.692	ppm	98
119) Ethyl Parathion	9.898	97	136694	83.834	ppm	97
120) Methapyrilene	10.010	58	255076	95.226	ppm	96
121) Isodrin	10.219	193	112732	81.626	ppm	99
122) Benzidine	10.550	184	710140	72.896	ppm	98
123) Pyrene	10.657	202	1231350	84.120	ppm	99
125) Aramite	10.913	185	153905m	85.333	ppm	
126) p-(Dimethylamino)azobe...	11.025	120	387842	83.944	ppm	95
127) Chlorobenzilate	11.089	139	367232	85.232	ppm	97
128) Butyl benzyl phthalate	11.527	149	603826	76.435	ppm	97
129) 3,3-Dimethylbenzidine	11.506	212	487655	47.958	ppm	98
130) 2-Acetylaminofluorene	11.906	181	500721	83.159	ppm	96
131) 3,3'-Dichlorobenzidine	12.392	252	306685	47.437	ppm	99
132) Benzo(a)anthracene	12.419	228	1125855	81.246	ppm	99
133) Chrysene	12.483	228	1093148	84.360	ppm	100
134) bis(2-Ethylhexyl)phtha...	12.515	149	854628	80.318	ppm	97
136) Di-n-octyl phthalate	13.851	149	1392830	78.205	ppm	99
137) 7,12-Dimethylbenz(a)an...	14.556	256	542750	82.990	ppm	94
138) Benzo(b)Fluoranthene	14.561	252	1189038	84.801	ppm	99
139) Benzo(k)fluoranthene	14.620	252	1127882	85.087	ppm	99
140) Benzo(a)pyrene	15.261	252	1038211	86.102	ppm	99
141) 3-Methylcholanthrene	16.030	268	603585	85.479	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.328	276	921916	81.570	ppm	96
143) Dibenz(a,h)anthracene	17.381	278	1035101	83.778	ppm	99
144) Benzo(g,h,i)perylene	17.792	276	840392	74.340	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

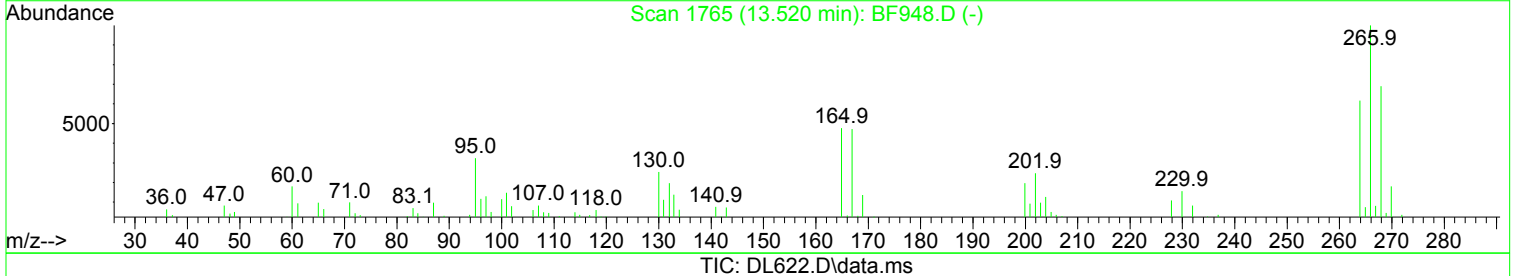
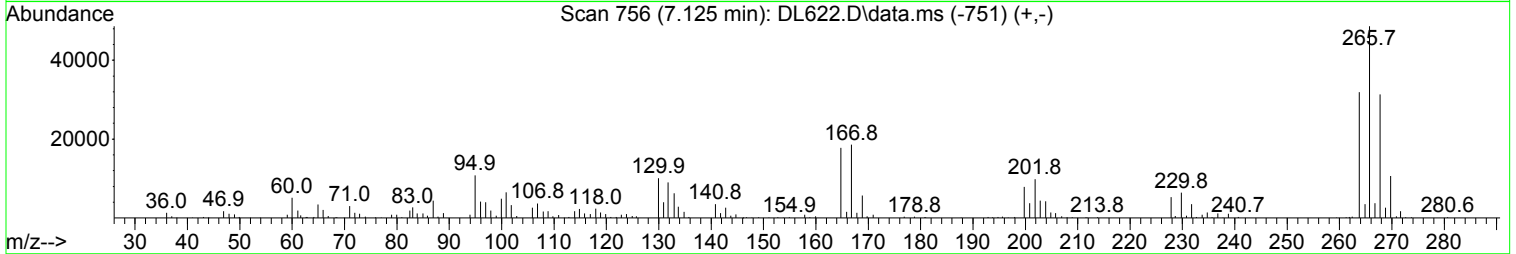
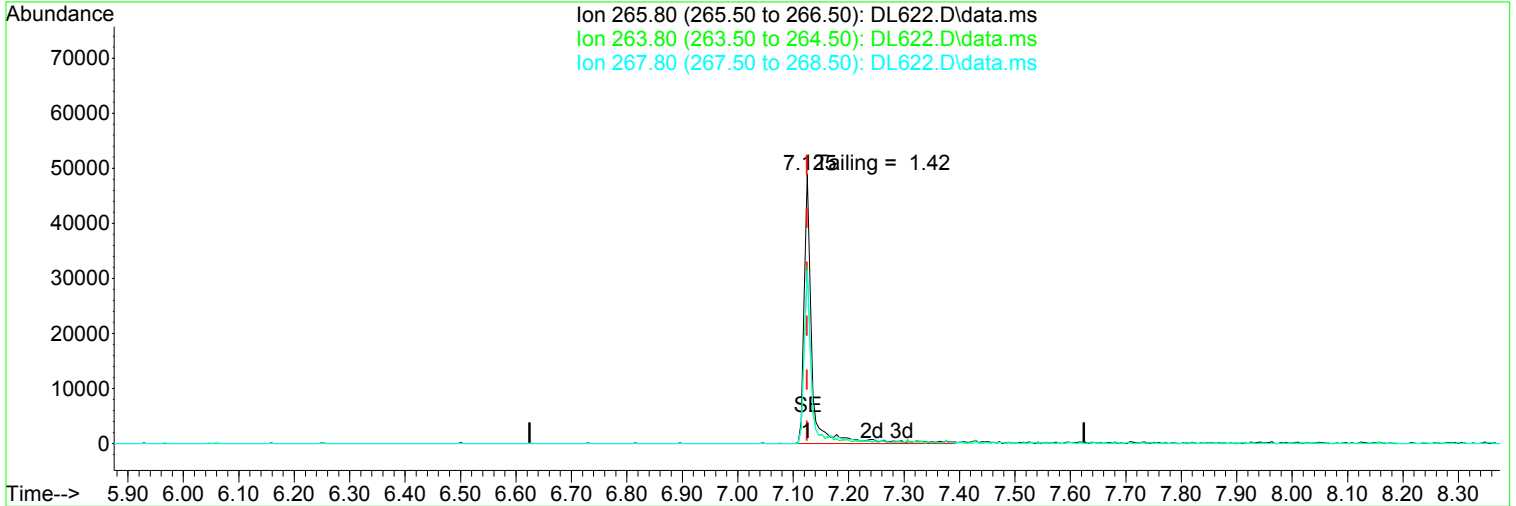
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Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL622.D  
Acq On : 23 Jan 2018 11:26 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 NG DFTTP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 07:26:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



(5) Pentachlorophenol (TCM)

7.125min ( 0.000) 50.00 ppm

response 44880

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	63.50	65.60
267.80	64.20	64.44
0.00	0.00	0.00

Manual Integration:

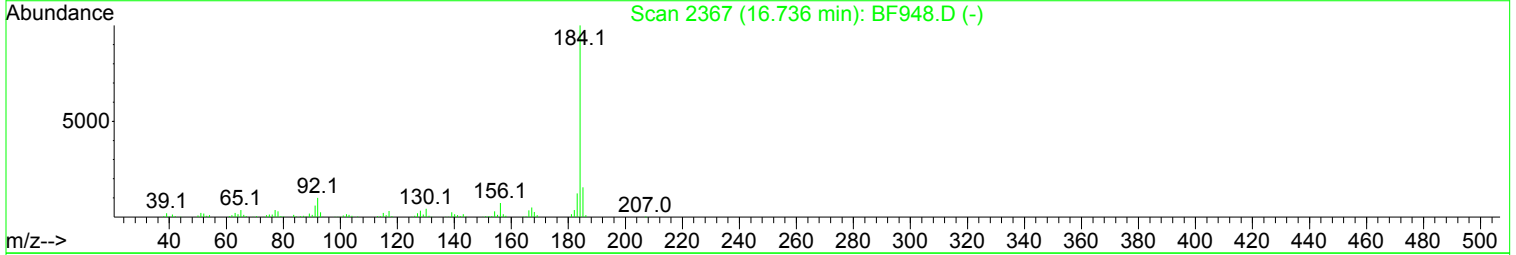
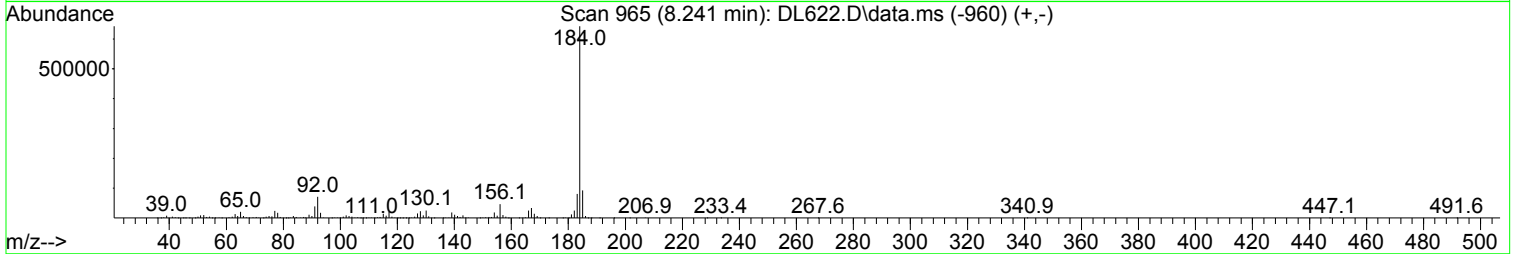
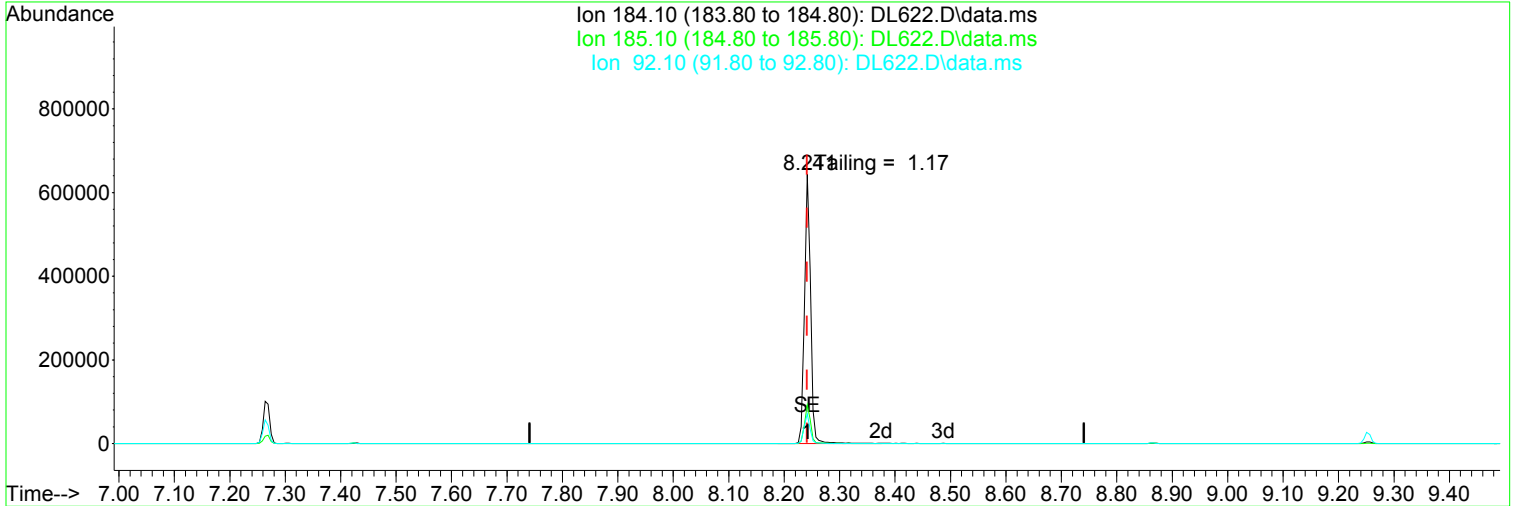
After

Other - Tailing

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL622.D  
Acq On : 23 Jan 2018 11:26 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 NG DFTTP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 07:26:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DL622.D\data.ms

(8) Benzidine (T)

8.241min ( 0.000) 50.00 ppm

response	486117
Ion	Exp% Act%
184.10	100.00 100.00
185.10	14.80 14.43
92.10	10.10 11.10
0.00	0.00 0.00

Manual Integration:  
After  
Other - Tailing  
01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL622.D  
 Acq On : 23 Jan 2018 11:26 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 NG DFTTP  
 ALS Vial : 2 Sample Multiplier: 1

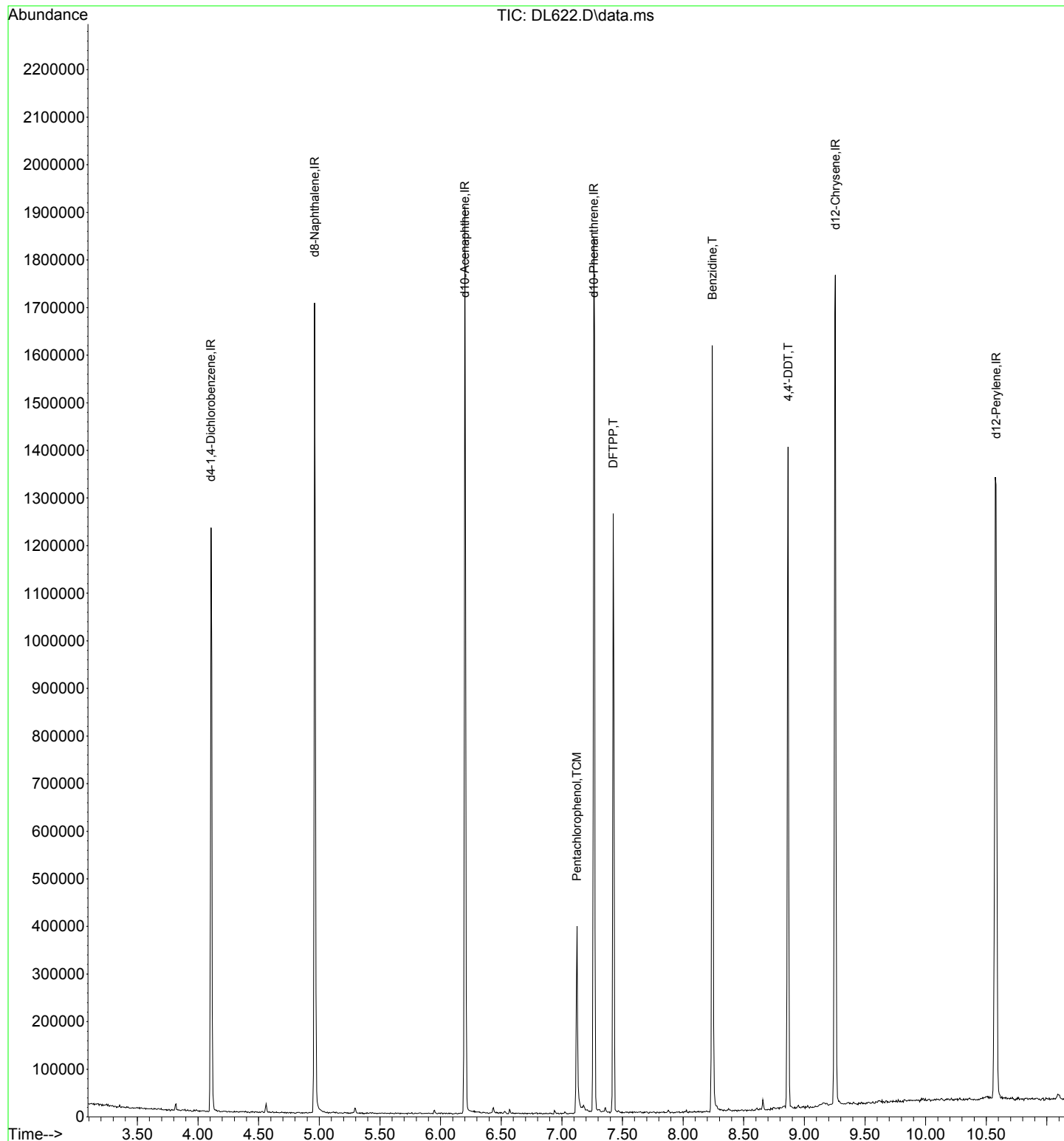
Quant Time: Jan 24 07:26:55 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 07:26:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.107	152	167263	40.00	ppm	0.00	
2) d8-Naphthalene	4.962	136	643501	40.00	ppm	0.00	
3) d10-Acenaphthene	6.201	164	315010	40.00	ppm	0.00	
4) d10-Phenanthrene	7.264	188	572438	40.00	ppm	0.00	
7) d12-Chrysene	9.256	240	497144	40.00	ppm	0.00	
12) d12-Perylene	10.581	264	519454	40.00	ppm	0.00	
Target Compounds							
5) Pentachlorophenol	7.125	266	44880	50.000	ppm		Qvalue 99
6) DFTTP	7.424	198	85933	50.000	ppm		90
8) Benzidine	8.241	184	486117	50.000	ppm		98
9) 4,4'-DDE	7.424	246	1286		N.D.		
10) 4,4'-DDD	8.658	235	2604		N.D.		
11) 4,4'-DDT	8.866	235	201750	50.000	ppm		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL622.D  
Acq On : 23 Jan 2018 11:26 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 NG DFTTP  
ALS Vial : 2 Sample Multiplier: 1

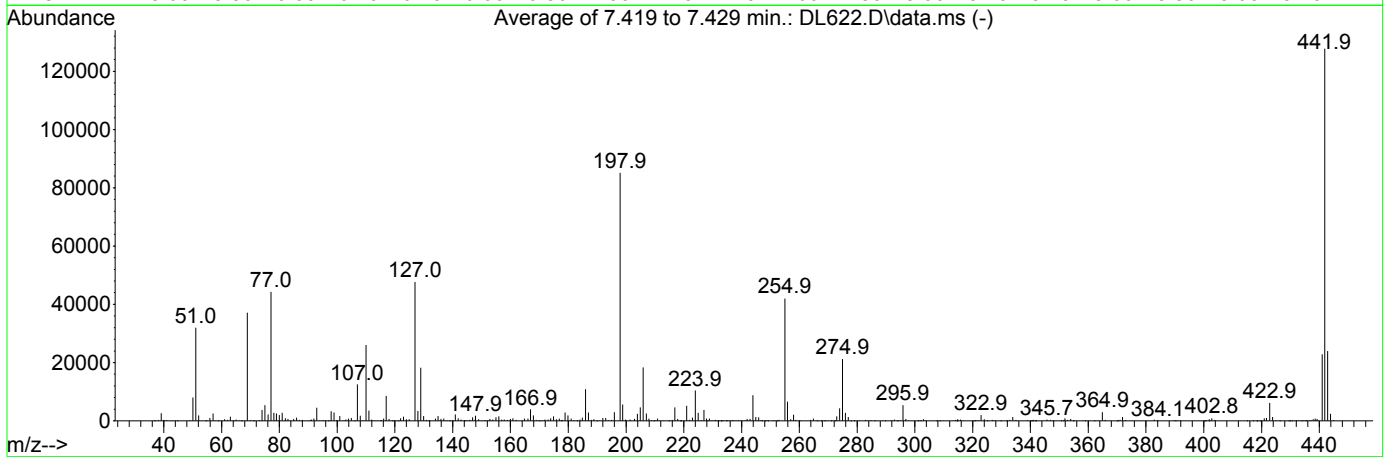
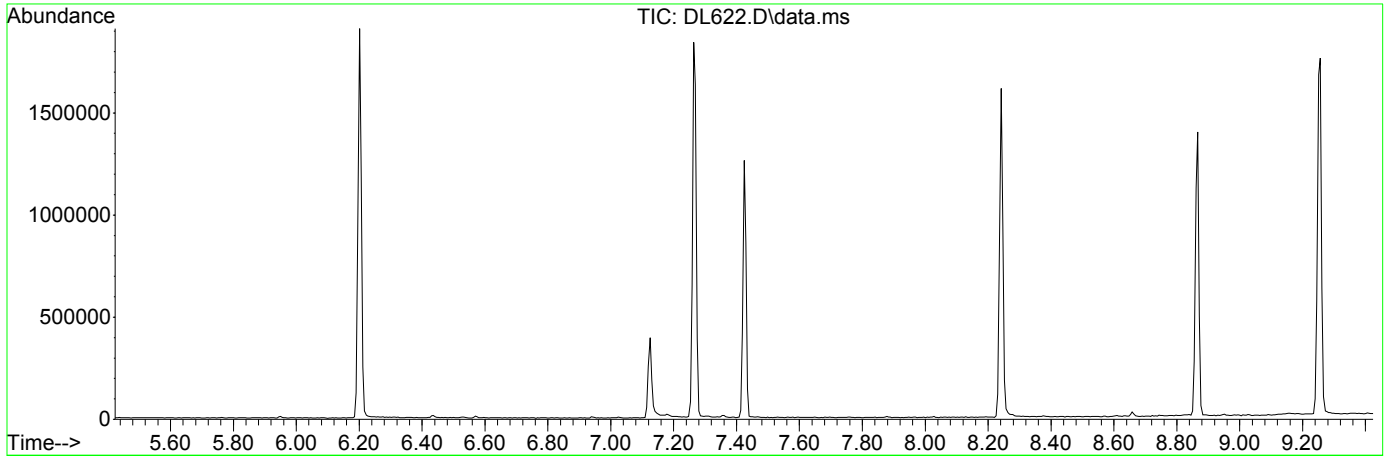
Quant Time: Jan 24 07:26:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL622.D  
 Acq On : 23 Jan 2018 11:26 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 NG DFTTP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Wed Oct 03 16:33:08 2012



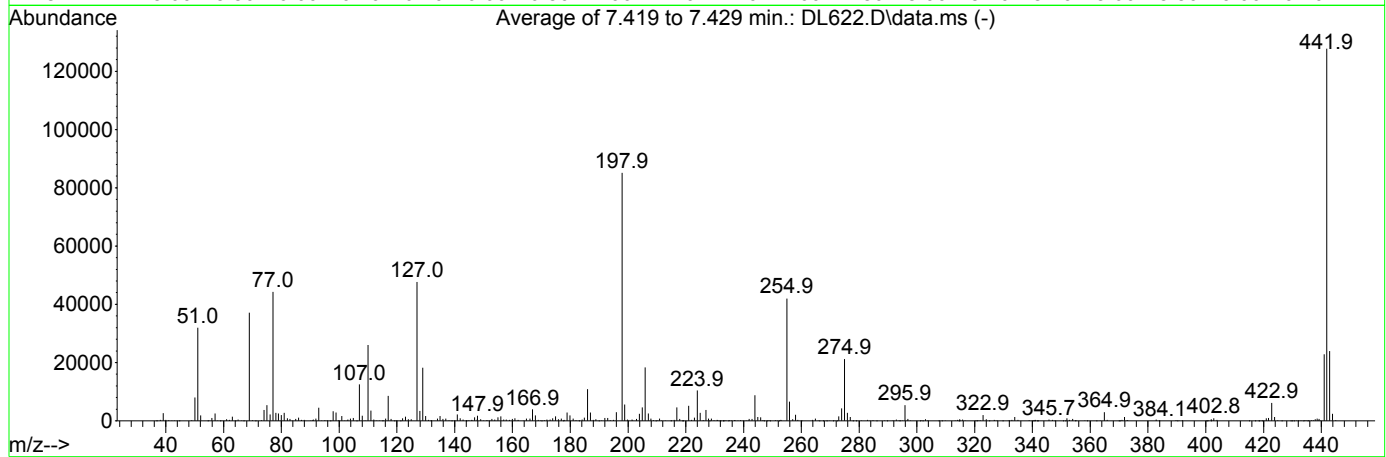
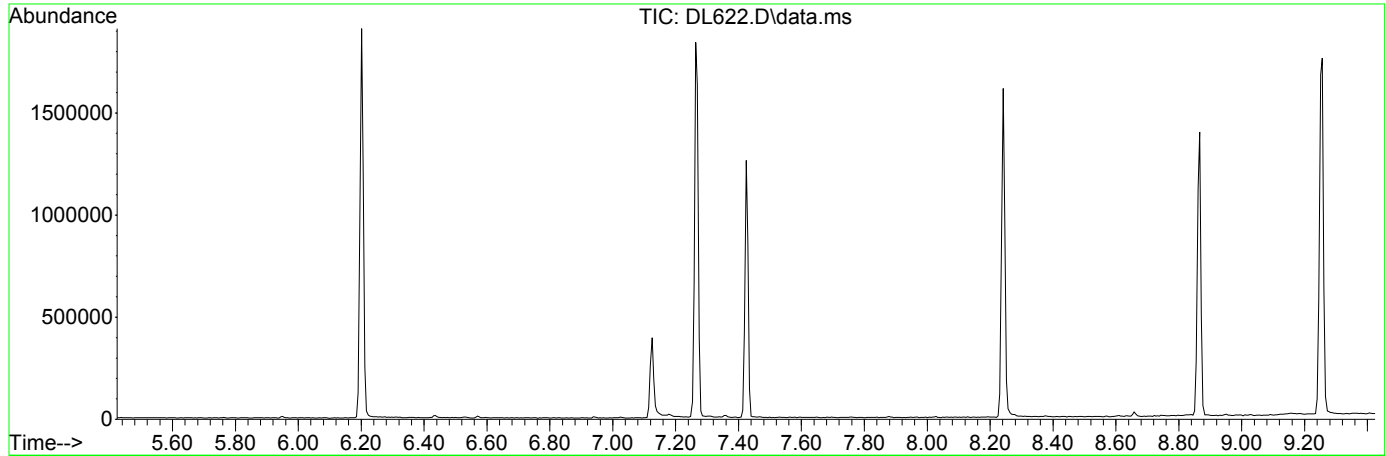
AutoFind: Scans 811, 812, 813; Background Corrected with Scan 807

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	31965	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	37189	PASS
70	69	0.00	2	0.7	255	PASS
127	198	40	60	55.9	47648	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	85165	PASS
199	198	5	9	6.6	5582	PASS
275	198	10	30	24.9	21183	PASS
365	198	1	500	3.6	3027	PASS
441	443	0.01	100	95.2	22837	PASS
442	198	50	500	150.0	127736	PASS
443	442	17	23	18.8	23976	PASS

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL622.D  
 Acq On : 23 Jan 2018 11:26 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 NG DFTTP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 07:26:38 2018



AutoFind: Scans 811, 812, 813; Background Corrected with Scan 807

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.5	31965	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	37189	PASS
70	69	0.00	2	0.7	255	PASS
127	198	10	80	55.9	47648	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	85165	PASS
199	198	5	9	6.6	5582	PASS
275	198	10	60	24.9	21183	PASS
365	198	1	500	3.6	3027	PASS
441	442	0.01	24	17.9	22837	PASS
442	442	100	100	100.0	127736	PASS
443	442	15	24	18.8	23976	PASS

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL623.D  
 Acq On : 23 Jan 2018 11:51 am  
 Operator : J.Misiurewicz  
 Sample : BLK  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 07:55:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	157012	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	598067	40.00	ppm	0.00
57) d10-Acenaphthene	7.673	164	282069	40.00	ppm	0.00
91) d10-Phenanthrene	9.142	188	483189	40.00	ppm	0.00
117) d12-Chrysene	12.432	240	421880	40.00	ppm	0.00
135) d12-Perylene	15.380	264	447719	40.00	ppm	0.00

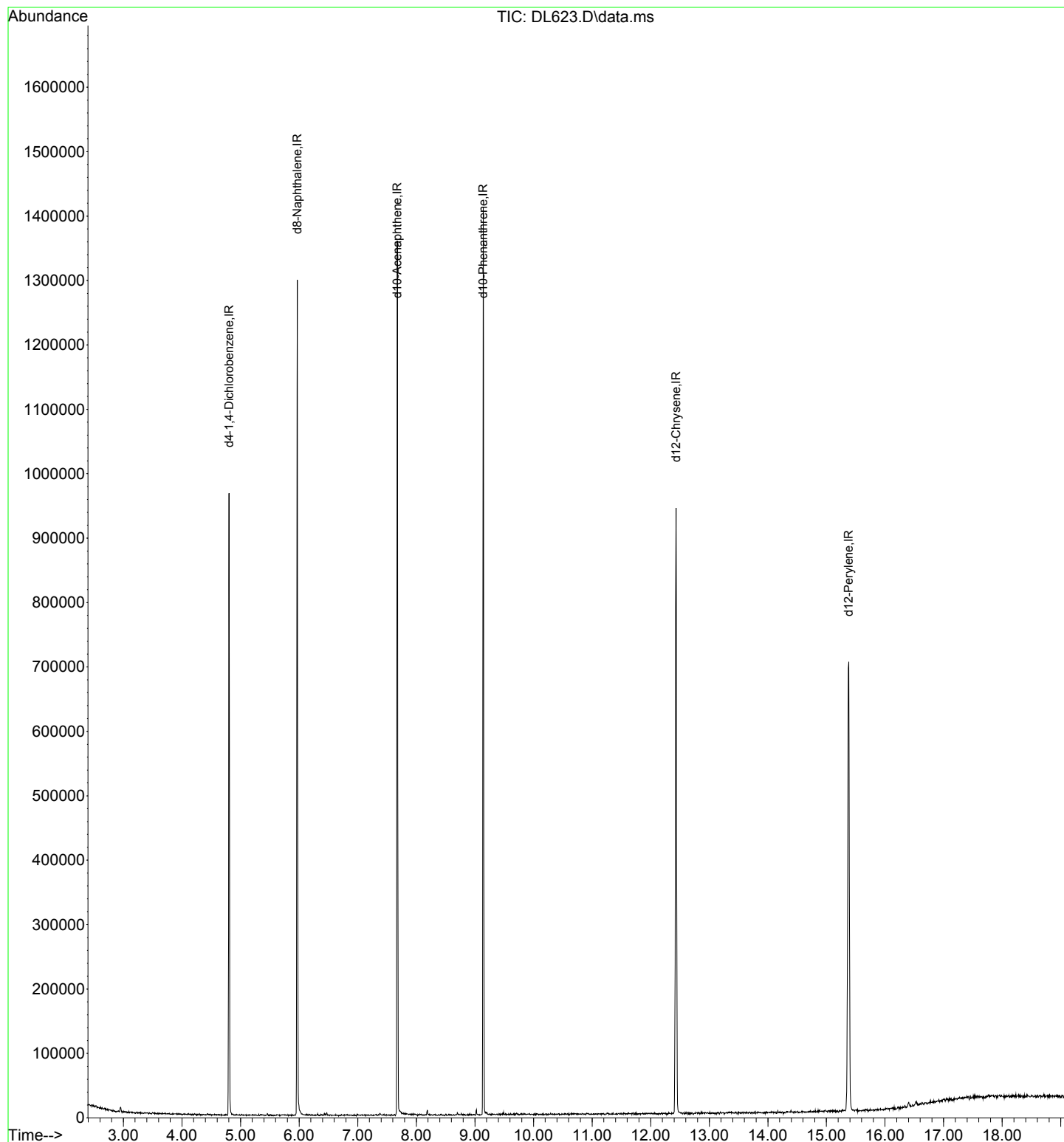
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	0.00%#
12) SURR2,PHENOL-D6	0.000	99	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	0.00%#
34) SURR4,NITROBENZENE-D5	5.275	82	120	0.03	ppm	-0.02
Spiked Amount	100.000	Range	37 - 117	Recovery	=	0.03%#
63) SURR5,2-FLUOROBIPHENYL	0.000	172	0	0.00	ppm	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	0.00%#
88) SURR3,2,4,6-TRIBROMOPH...	0.000	330	0	0.00	ppm	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.00%#
124) SURR6,TERPHENYL-D14	10.851	244	122	0.01	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	0.01%#

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

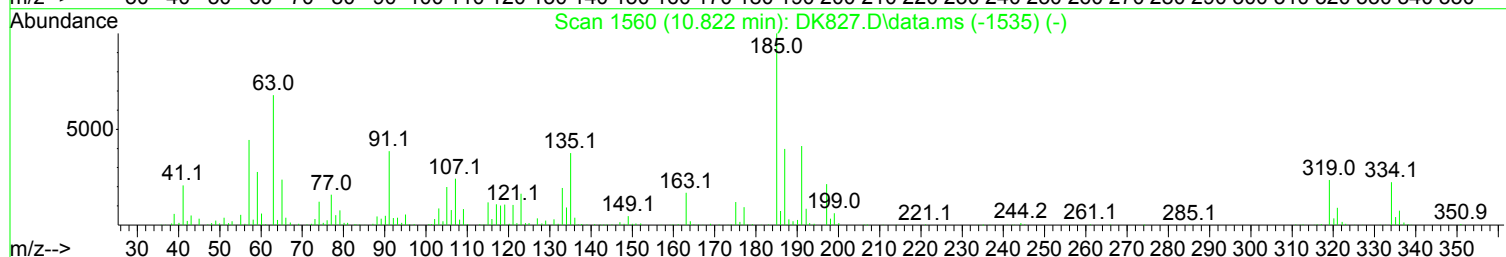
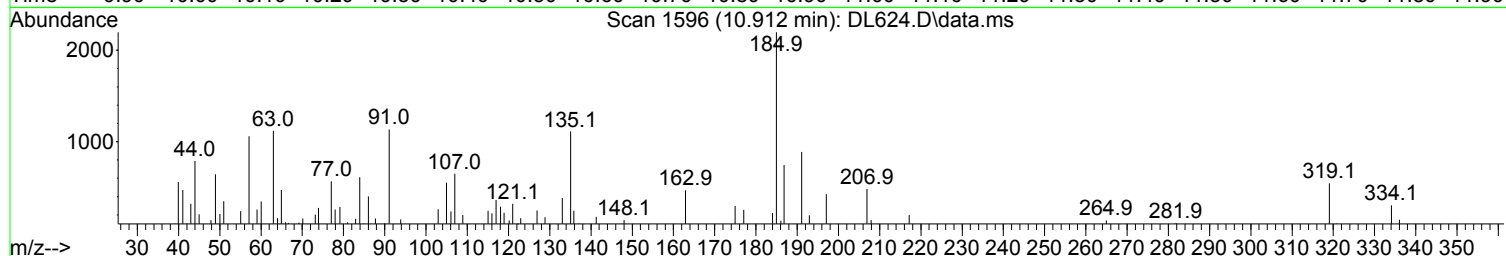
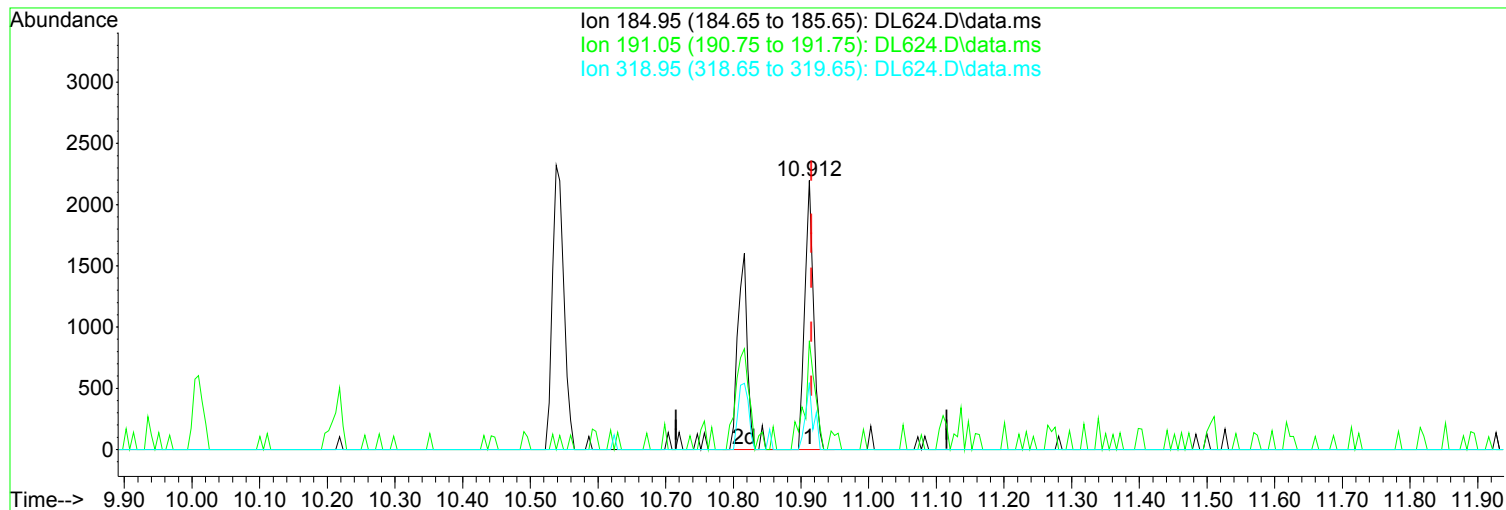
Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL623.D  
Acq On : 23 Jan 2018 11:51 am  
Operator : J.Misiurewicz  
Sample : BLK  
Misc : Initial Calibration 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 07:55:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL624.D  
Acq On : 23 Jan 2018 12:20 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.912min (-0.003) 2.53 ppm m

After

response 3601

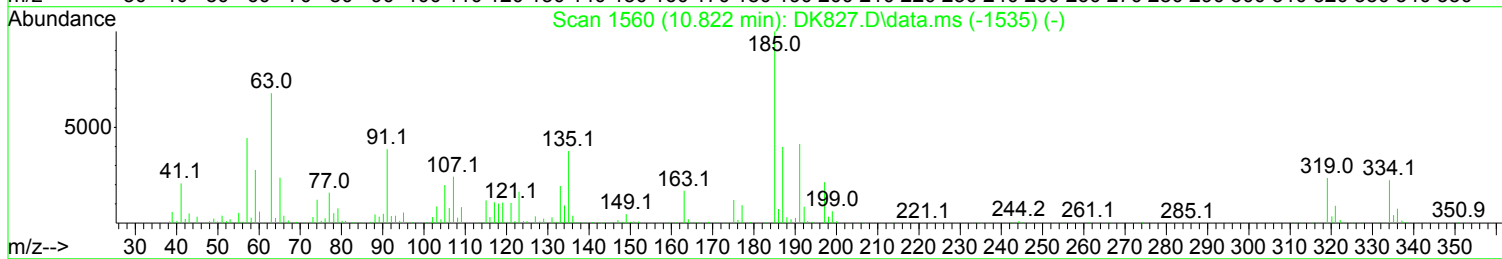
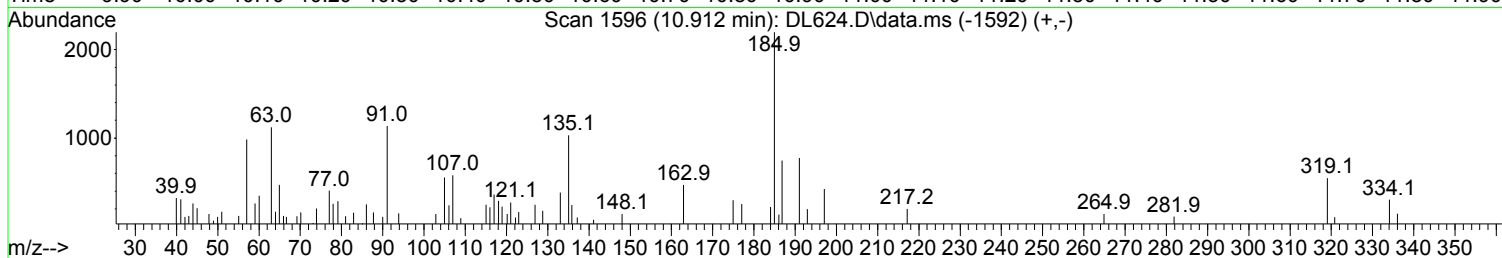
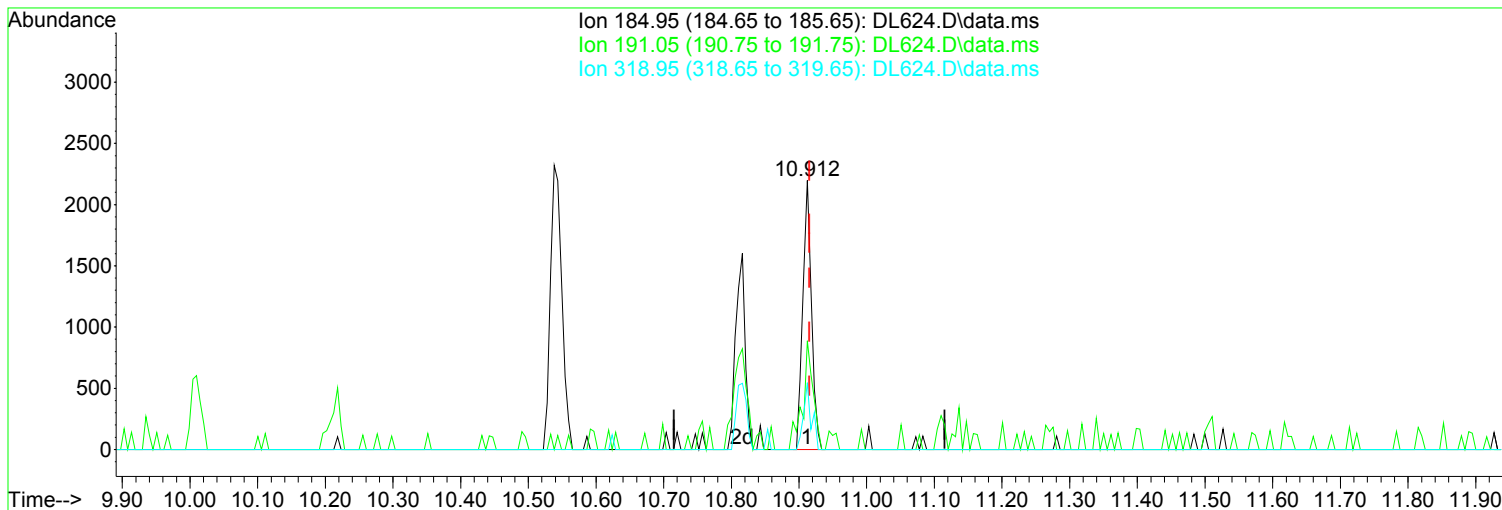
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	40.37
318.95	19.40	24.90
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL624.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.912min (-0.003) 1.39 ppm

Before

response 1977

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	35.18
318.95	19.40	24.90
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.802	152	156739	40.00	ppm	0.00
33) d8-Naphthalene	5.966	136	610662	40.00	ppm	0.00
57) d10-Acenaphthene	7.676	164	293908	40.00	ppm	0.00
91) d10-Phenanthrene	9.139	188	494836	40.00	ppm	0.00
117) d12-Chrysene	12.429	240	448163	40.00	ppm	-0.01
135) d12-Perylene	15.377	264	488553	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.734	112	11922	2.18	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	1.09%#
12) SURR2,PHENOL-D6	4.471	99	13808	2.11	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	1.05%#
34) SURR4,NITROBENZENE-D5	5.293	82	9611	1.74	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	1.74%#
63) SURR5,2-FLUOROBIPHENYL	7.008	172	25790	2.35	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	2.35%#
88) SURR3,2,4,6-TRIBROMOPH...	8.455	330	3282	1.46	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.73%#
124) SURR6,TERPHENYL-D14	10.837	244	23566	2.40	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	2.40%#

Target Compounds						Qvalue
2) Pyridine	2.783	79	11357	2.100	ppm	94
3) N-Nitrosodimethylamine	2.740	74	5629	2.050	ppm	94
4) 2-Picoline	3.317	93	12888	2.227	ppm	96
5) N-Nitrosomethylamine	3.381	42	4737	2.235	ppm	85
6) Methyl Methansulfonate	3.606	80	5328	1.931	ppm	82
8) N-Nitrosodiethylamine	3.910	102	6829	2.277	ppm	83
9) Ethyl Mathanesulfonate	4.140	79	8803	2.333	ppm	88
10) Benzaldehyde	4.434	106	16987	4.753	ppm	94
11) Aniline	4.519	93	22900	2.433	ppm	84
13) Phenol	4.482	94	15945	2.492	ppm	94
14) bis(2-Clethyl)Ether	4.562	93	12426	2.610	ppm	95
15) Pentachloroethane	4.562	117	5205	2.770	ppm	90
16) 2-Chlorophenol	4.626	128	12967	2.467	ppm	93
17) 1,3-Diclbzene	4.754	146	14027	2.508	ppm	92
18) 1,4-Dichlorobenzene	4.818	146	14788	2.631	ppm	88
19) 1,2-Diclbzene	4.952	146	13515	2.529	ppm	95
20) Benzyl Alcohol	4.914	79	8168	2.016	ppm	85
21) 1-Methyl-2-pyrrolidinone	4.941	99	7408	2.249	ppm	90
22) 2,2'-oxybis(1-Chloropr...	5.026	45	10605	2.359	ppm	# 62
23) 2-Methylphenol	5.010	108	11752	2.497	ppm	93
24) 3+4-Methylphenol	5.149	108	12406	2.518	ppm	95
25) Acetophenone	5.149	105	17425	2.600	ppm	98
26) N-Nitroso-Di-n-propyla...	5.144	70	8145	2.379	ppm	90
27) N-Nitrosopyrrolidine	5.133	100	6412	2.439	ppm	77
28) N-Nitrosomorpholine	5.165	56	6373	2.481	ppm	90
29) o-Toluidine	5.181	106	20120	2.584	ppm	90
30) Hexachloroethane	5.251	117	5587	2.757	ppm	96
31) o,o,o-Triethylphosphor...	5.694	198	4856	2.223	ppm	78
32) Alpha-terpinol	5.988	121	4635	2.729	ppm	90
35) Nitrobenzene	5.309	77	10469	1.882	ppm	99
36) N-Nitrosopiperidine	5.448	42	6191	2.292	ppm	96
37) Isophorone	5.523	82	21286	2.250	ppm	97
38) 2-Nitrophenol	5.603	139	4838	1.696	ppm	88

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.635	107	11411	2.198	ppm	97
40) bis(-2-Chloroethoxy)Me...	5.721	93	14290	2.512	ppm	98
42) 2,4-Dichlorophenol	5.833	162	7991	1.956	ppm	95
43) a,a-Dimethylphenethyla...	5.827	58	22474	2.166	ppm	89
44) 1,2,4-Trichlorobenzene	5.908	180	10636	2.341	ppm	94
45) Naphthalene	5.988	128	41207	2.673	ppm	96
46) 4-Chloroaniline	6.036	127	16957	2.249	ppm	96
47) 2,6-Dichlorophenol	6.046	162	9743	2.200	ppm	87
48) Hexachlorobutadiene	6.100	225	4681	1.877	ppm	95
49) Hexachloropropene	6.068	213	5464	1.834	ppm	85
50) 4-Chloro-3-methylphenol	6.506	107	9055	2.283	ppm	99
51) N-N-di-n-butylamine	6.351	84	9758	2.903	ppm	92
52) Caprolactam	6.356	113	3487	2.288	ppm	# 64
54) Safrole	6.565	162	10338	2.369	ppm	86
55) 2-Methylnaphthalene	6.650	142	24589	2.500	ppm	96
56) 1-Methylnaphthalene	6.746	142	22838	2.483	ppm	98
58) Hexachlorocyclopentadiene	6.800	237	4391	1.597	ppm	87
59) 1,2,4,5-Tetrachloroben...	6.810	216	9845	2.186	ppm	95
60) 1,2,3,4-Tetrachloroben...	7.088	216	9553	2.244	ppm	96
61) 2,4,6-Trichlorophenol	6.928	196	5557	1.973	ppm	88
62) 2,4,5-Trichlorophenol	6.971	196	6119	2.094	ppm	95
64) Isosafrole	7.067	104	3977	2.145	ppm	# 34
65) 1,1'-Biphenyl	7.104	154	30872	2.533	ppm	96
66) 2-Chloronaphthalene	7.125	162	21925	2.436	ppm	92
67) 2-Nitroaniline	7.227	65	3685	1.582	ppm	82
68) 1,4-Naphthoquinone	7.302	158	6397	2.238	ppm	73
69) m-Dinitrobenzene	7.435	168	1758	1.055	ppm	92
70) Acenaphthylene	7.537	152	35297	2.466	ppm	96
71) Dimethyl phthalate	7.403	163	25174	2.535	ppm	97
72) 2,6-Dinitrotoluene	7.462	165	3567	1.604	ppm	94
73) Acenaphthene	7.702	153	23876	2.442	ppm	98
74) 3-Nitroaniline	7.633	138	4175	1.557	ppm	95
76) Dibenzofuran	7.873	168	31047	2.470	ppm	94
77) 2,4-Dinitrotoluene	7.857	165	3587	1.126	ppm	93
78) 4-Nitrophenol	7.814	65	1928	1.056	ppm	# 69
79) Pentachlorobenzene	7.830	250	9313	2.205	ppm	96
80) 1-Naphthylamine	7.953	143	16286	2.530	ppm	97
81) 2-Naphthylamine	8.033	143	21213	2.449	ppm	95
82) 2,3,4,6-Tetrachlorophenol	7.996	232	3094	1.367	ppm	89
83) Fluorene	8.210	166	25805	2.487	ppm	100
84) 4-Chlorophenyl-phenyle...	8.210	204	10807	2.423	ppm	92
85) Diethylphthalate	8.092	149	25829	2.462	ppm	99
86) 4-Nitroaniline	8.231	138	4378	1.492	ppm	88
87) 5-Nitro-o-toluidine	8.226	152	4542	1.476	ppm	96
89) Sulfotepp	8.477	322	4038	1.737	ppm	89
90) Octachlorocyclopentene	8.461	307	3280	1.607	ppm	86
92) Thionazin	8.172	107	4418	2.940	ppm	85
93) 4,6-Dinitro-2-methylph...	8.258	198	708	0.403	ppm	# 4
94) Diphenylamine	8.327	169	37829	5.253	ppm	98
95) 1,2 Diphenylhydrazine	8.365	77	24484	2.818	ppm	93
96) N-Nitrosodiphenylamine	8.327	169	37829	5.253	ppm	98
97) 1,3,5-Trinitrobenzene	8.589	74	954	0.631	ppm	# 46
98) Diallate	8.610	86	9698	2.759	ppm	96
99) Phorate	8.616	121	4474	2.669	ppm	87
100) Phenacetin	8.632	108	9538	1.929	ppm	94
101) 4-Bromophenyl-phenylether	8.696	248	6361	2.405	ppm	93

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

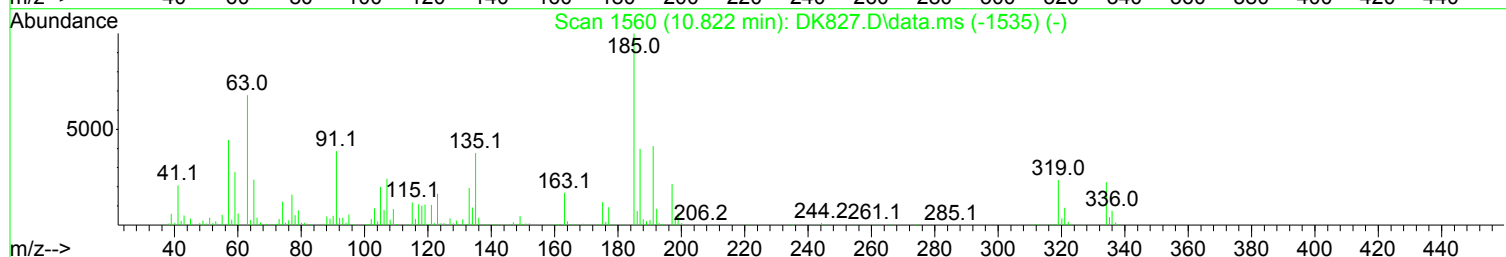
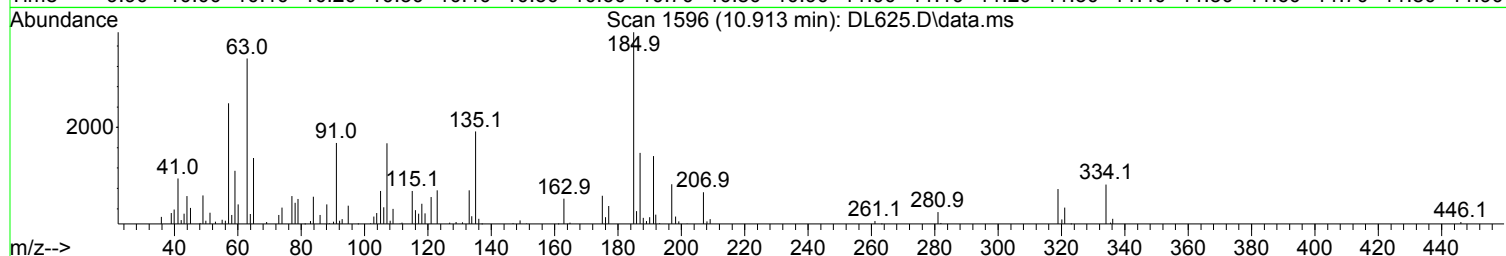
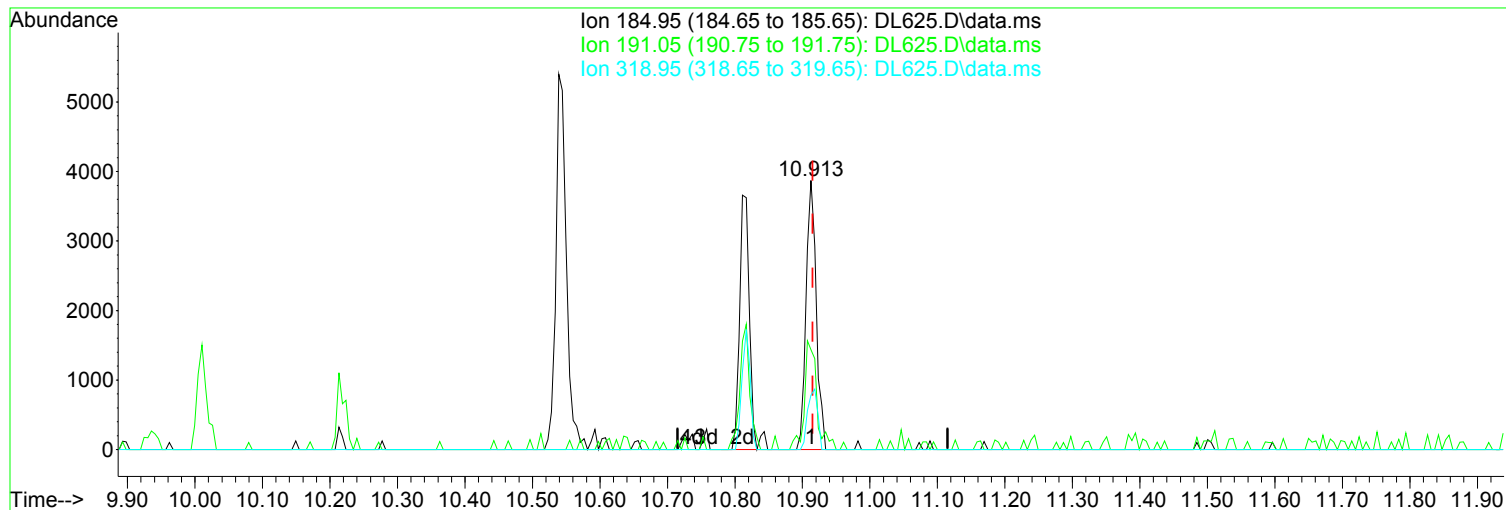
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) Hexachlorobenzene	8.749	284	7916	2.287	ppm	94
103) Dimethoate	8.786	87	6727	2.182	ppm	99
104) Atrazine	8.851	215	3074	2.062	ppm	95
105) Pentachlorophenol	8.952	266	772	0.371	ppm #	72
106) 4-Aminobiphenyl	8.952	169	21983	2.292	ppm	96
107) Pentachloronitrobenzene	8.957	237	1296	1.222	ppm	72
108) Pronamide	9.005	173	7505	1.878	ppm	96
109) Dinoseb	9.128	211	1212	0.477	ppm	94
110) Disulfoton	9.139	88	12083	3.574	ppm	75
111) Phenanthrene	9.166	178	33021	2.526	ppm	97
112) Anthracene	9.214	178	31906	2.444	ppm	96
113) Carbazole	9.374	167	31340	2.350	ppm	98
114) Di-n-butylphthalate	9.710	149	34458	2.101	ppm	99
115) 4-Nitroquinonline-1-oxide	9.940	190	919	0.784	ppm	89
116) Fluoranthene	10.383	202	28705	2.153	ppm	95
118) Methyl Parathion	9.508	109	2466	1.110	ppm	94
119) Ethyl Parathion	9.892	97	1609	0.975	ppm	95
120) Methapyrilene	10.010	58	5915	1.960	ppm	95
121) Isodrin	10.213	193	3364	2.858	ppm	88
122) Benzidine	10.544	184	20866	2.476	ppm	96
123) Pyrene	10.650	202	32290	2.663	ppm	95
125) Aramite	10.912	185	3601m	2.528	ppm	
126) p-(Dimethylamino)azobe...	11.024	120	9378	2.508	ppm	90
127) Chlorobenzilate	11.083	139	9009	2.477	ppm	87
128) Butyl benzyl phthalate	11.526	149	16613	2.444	ppm	93
129) 3,3-Dimethylbenzidine	11.500	212	20017	2.095	ppm	99
130) 2-Acetylaminofluorene	11.890	181	9423	1.850	ppm	95
131) 3,3'-Dichlorobenzidine	12.386	252	13926	2.177	ppm	95
132) Benzo(a)anthracene	12.408	228	32244	2.534	ppm	94
133) Chrysene	12.472	228	30487	2.583	ppm	94
134) bis(2-Ethylhexyl)phtha...	12.515	149	22138	2.350	ppm	94
136) Di-n-octyl phthalate	13.850	149	32687	1.929	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.533	256	14752	2.126	ppm	98
138) Benzo(b)Fluoranthene	14.533	252	33024	2.312	ppm	95
139) Benzo(k)fluoranthene	14.592	252	32439	2.376	ppm	95
140) Benzo(a)pyrene	15.238	252	27297	2.239	ppm	95
141) 3-Methylcholanthrene	16.013	268	15622	2.156	ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.311	276	27700	2.485	ppm	96
143) Dibenz(a,h)anthracene	17.364	278	30229	2.395	ppm	99
144) Benzo(g,h,i)perylene	17.770	276	30779	1.119	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL625.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.913min (-0.003) 5.60 ppm m

After

response 7813

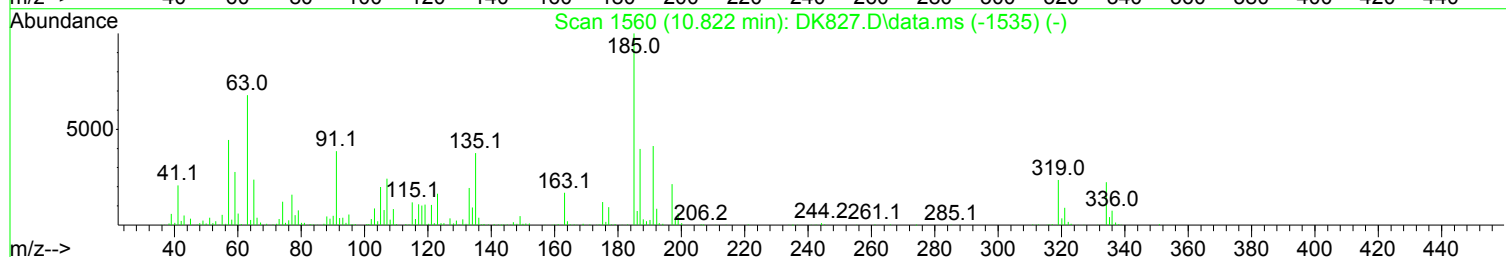
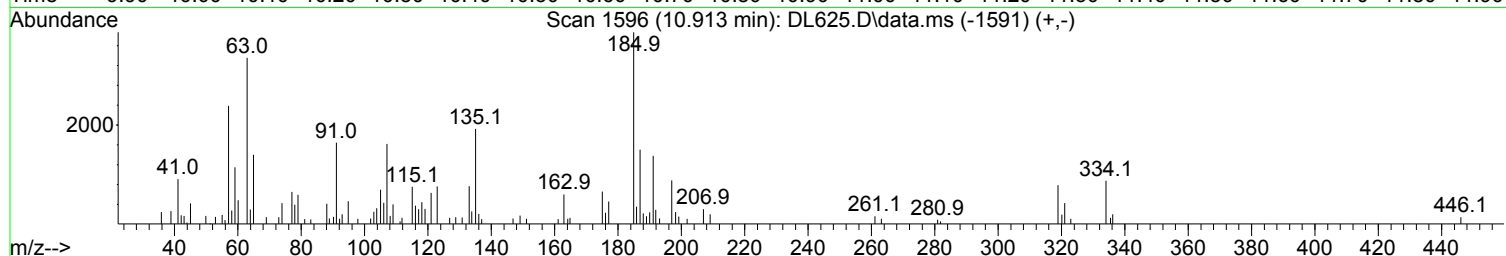
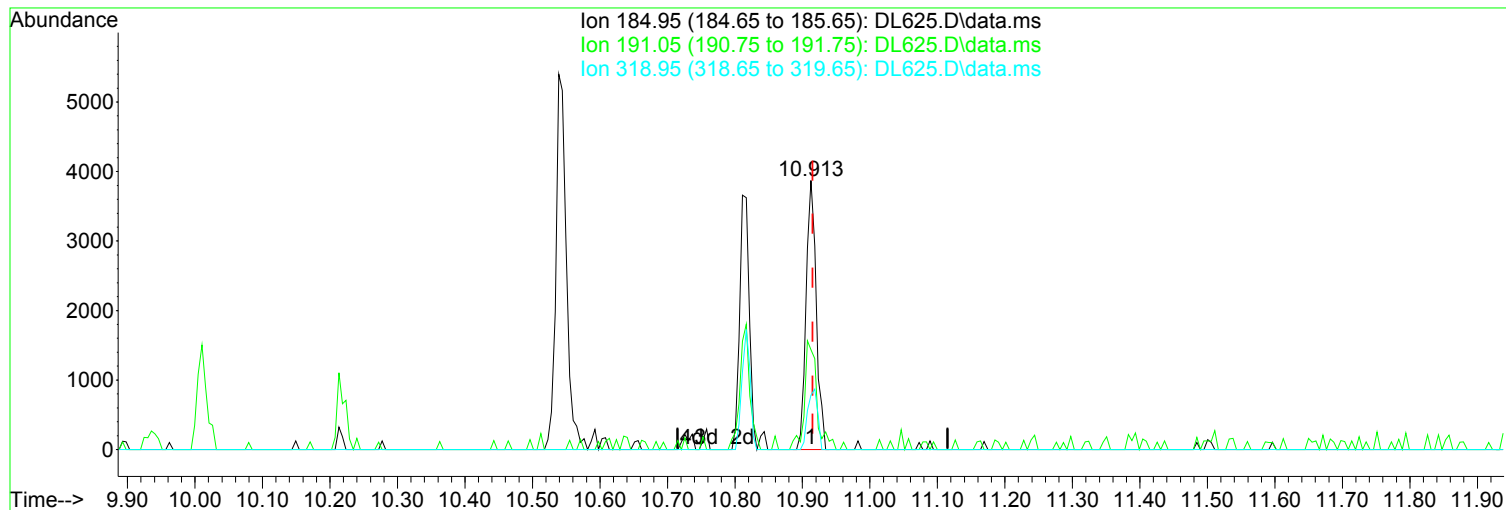
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	37.16
318.95	19.40	20.26
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL625.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.913min (-0.003) 2.90 ppm

Before

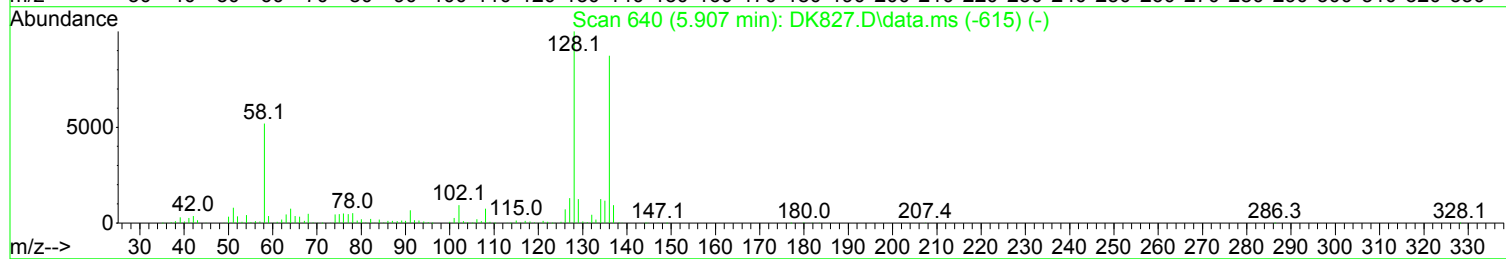
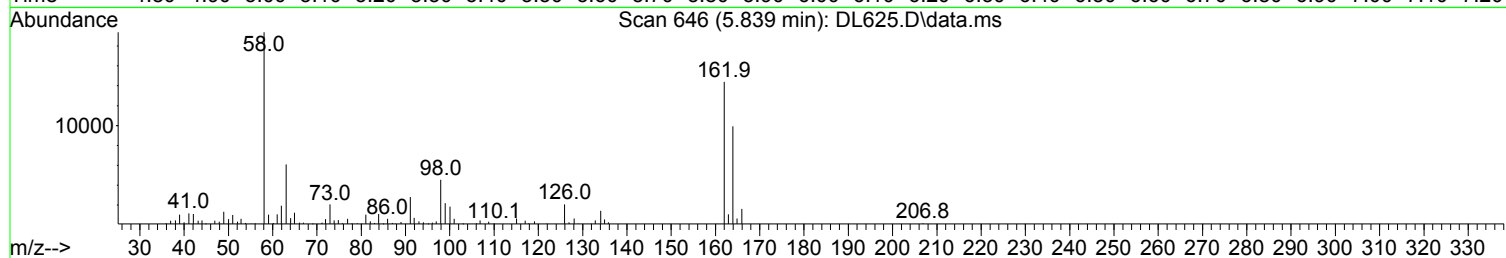
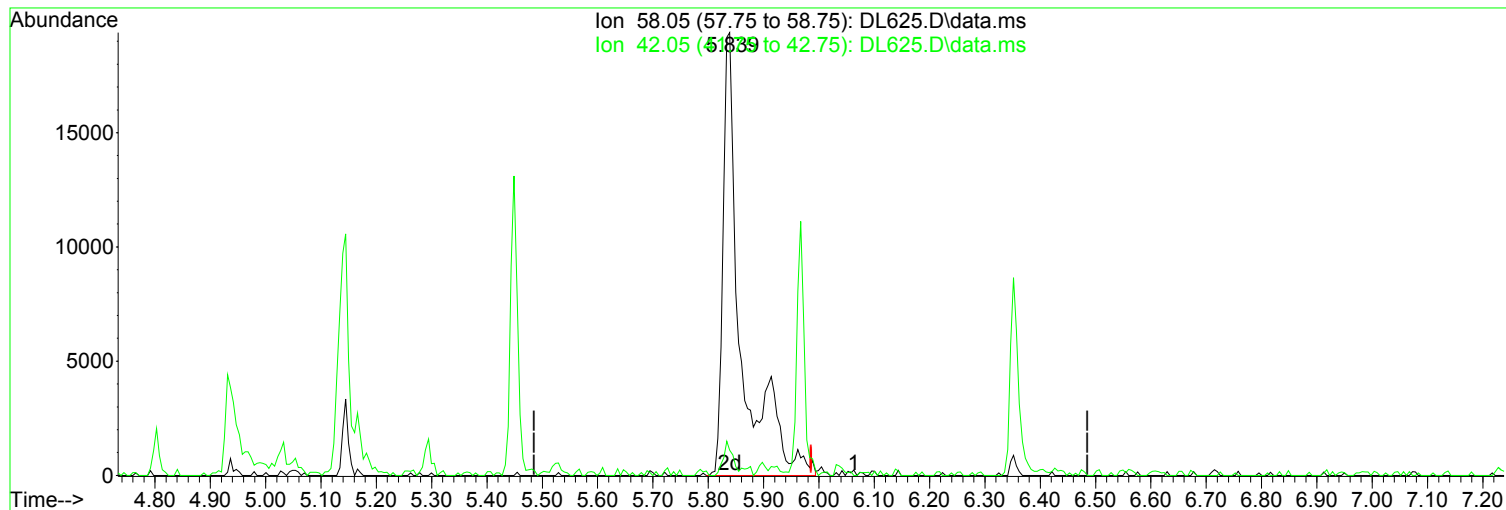
response 4048

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	34.03
318.95	19.40	20.26
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.839min (-0.147) 4.34 ppm m

After

response 44184

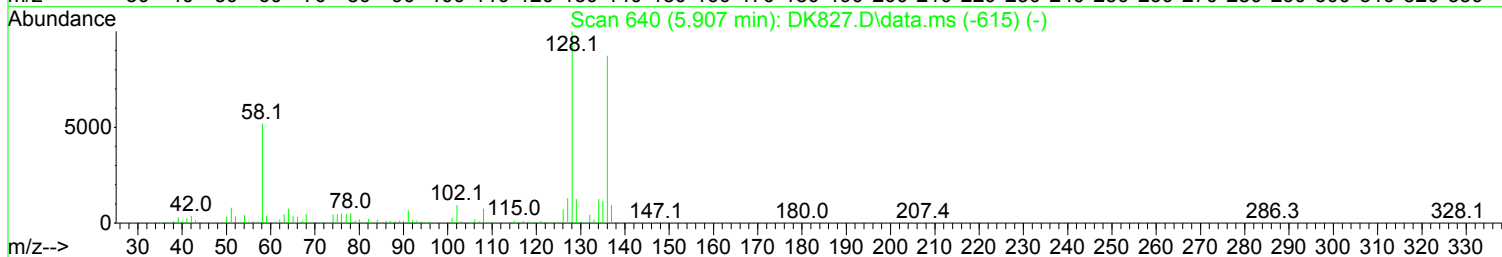
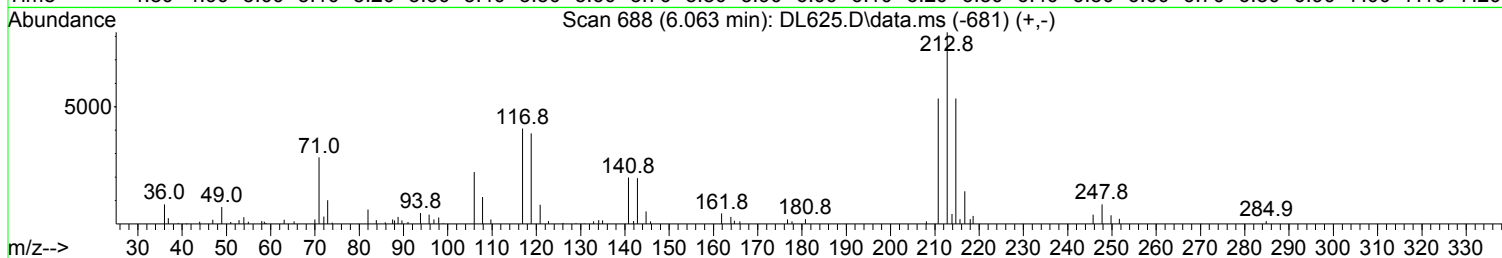
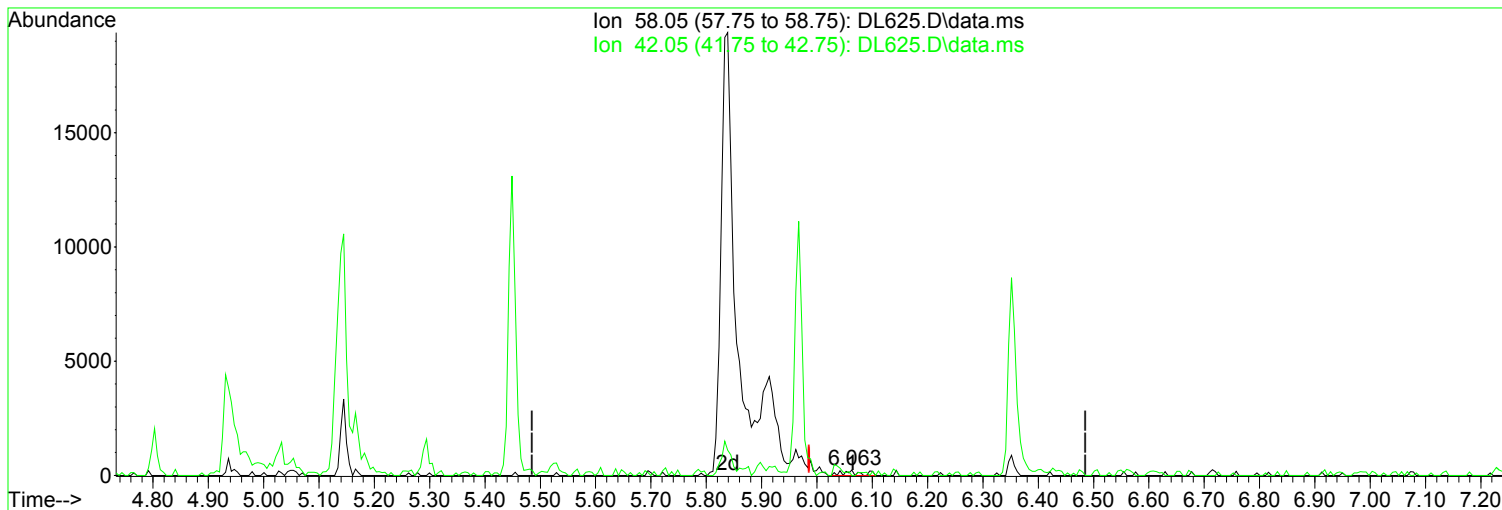
Peak not found.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	5.66
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL625.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.063min (+ 0.077) 0.05 ppm

Before

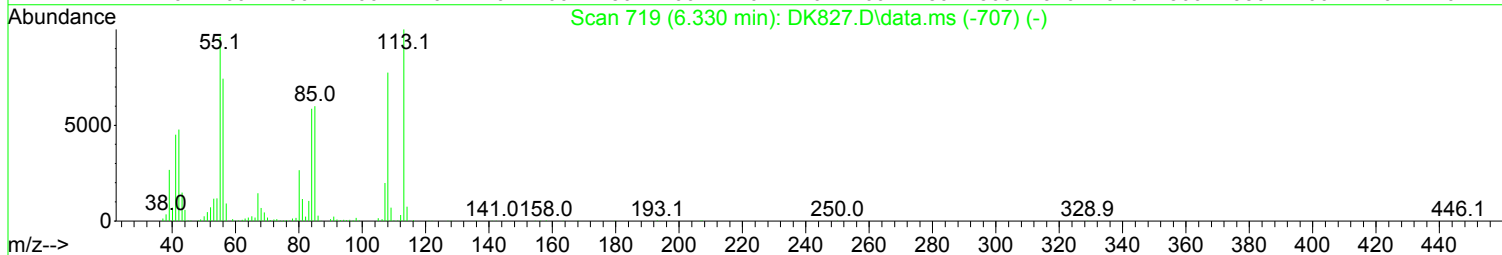
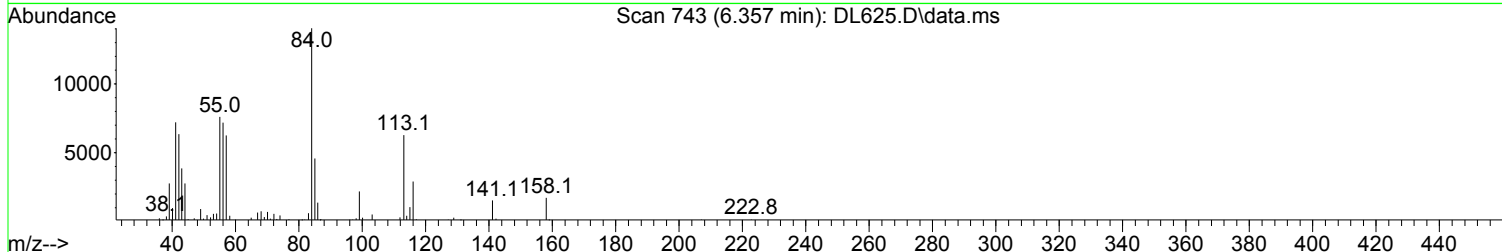
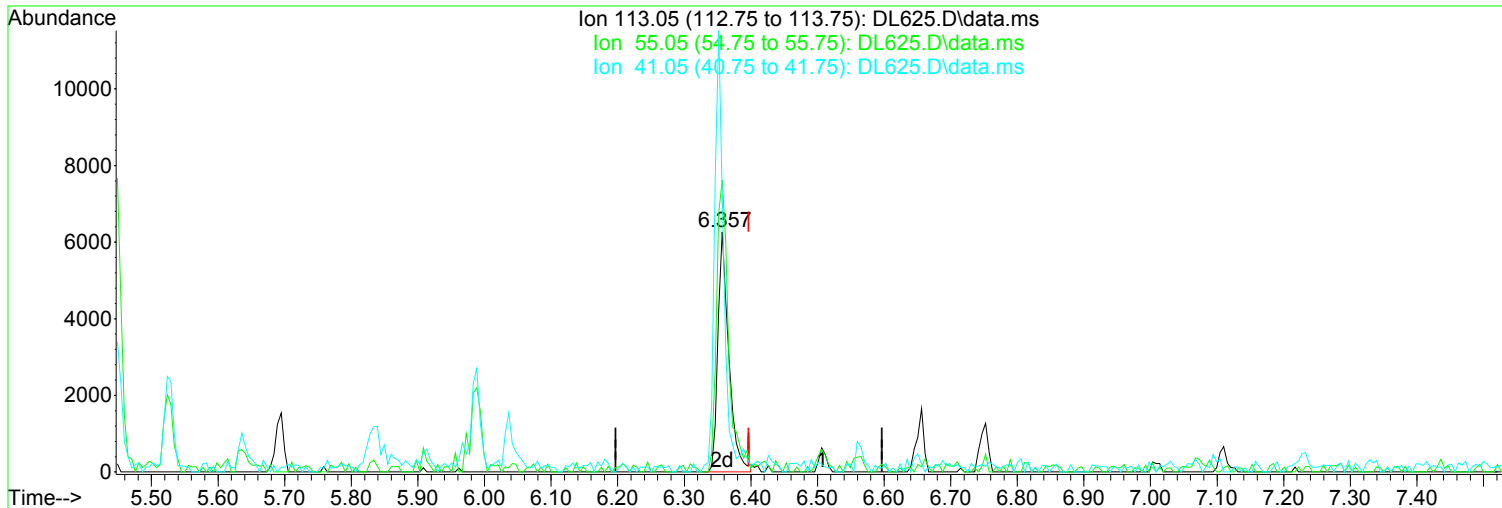
response 464

Ion	Exp%	Act%	
58.05	100.00	100.00	01/24/18
42.05	9.80	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL625.D\data.ms

(52) Caprolactam (TM)

Manual Integration:

6.357min (-0.040) 4.82 ppm m

After

response 7213

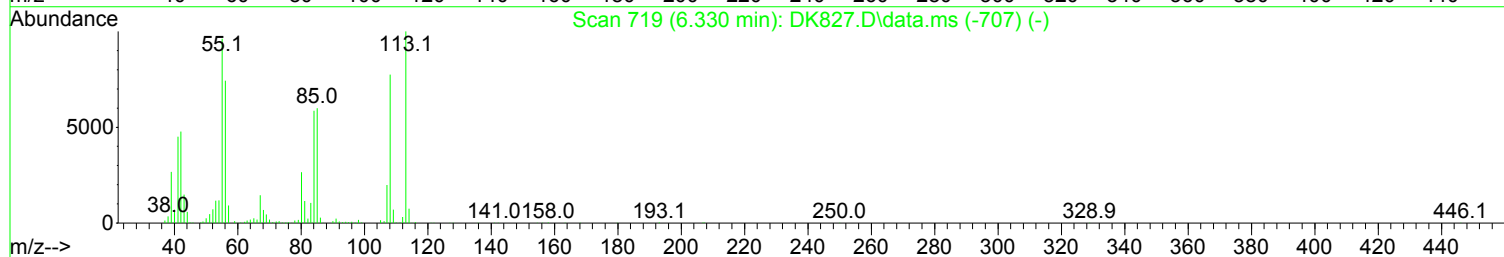
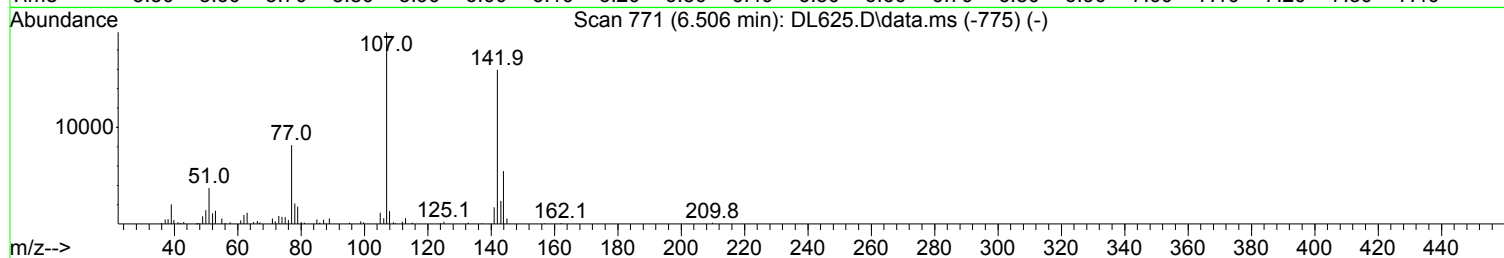
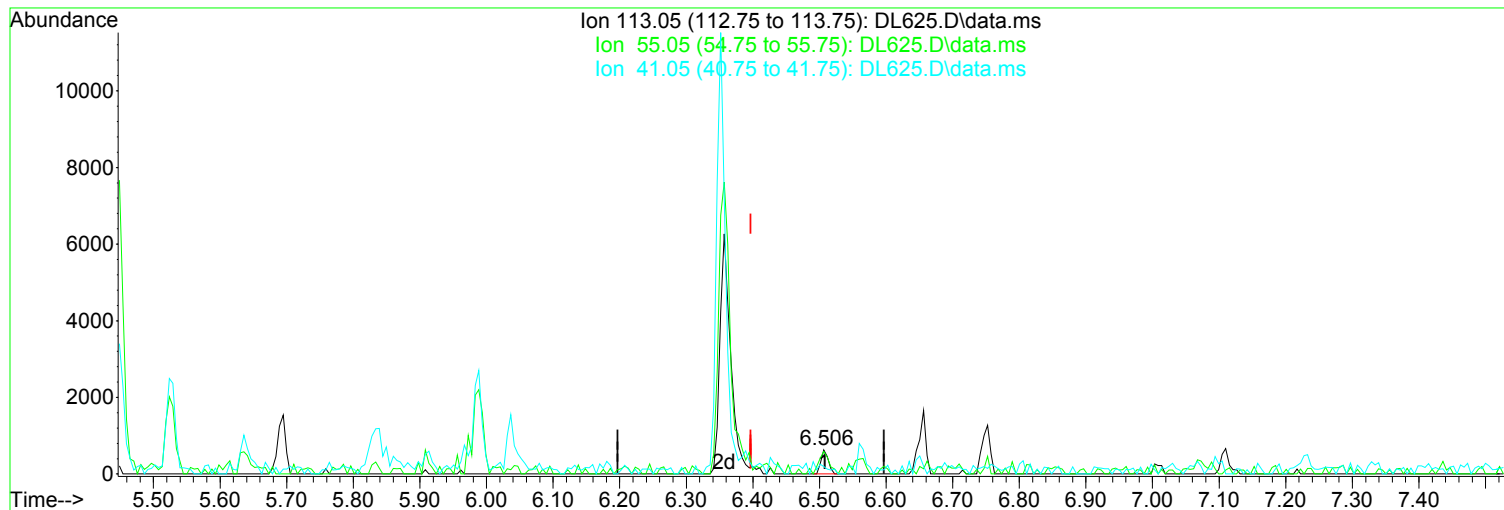
Peak not found.

Ion	Exp%	Act%
113.05	100.00	100.00
55.05	99.50	121.52
41.05	43.30	115.22#
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL625.D\data.ms

(52) Caprolactam (TM)

Manual Integration:

6.506min (+ 0.110) 0.32 ppm

Before

response 485

Ion	Exp%	Act%
113.05	100.00	100.00
55.05	99.50	93.38
41.05	43.30	30.91
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.803	152	155153	40.00	ppm	0.00
33) d8-Naphthalene	5.967	136	599680	40.00	ppm	0.00
57) d10-Acenaphthene	7.676	164	282661	40.00	ppm	0.00
91) d10-Phenanthrene	9.145	188	469484	40.00	ppm	0.00
117) d12-Chrysene	12.430	240	438652	40.00	ppm	-0.01
135) d12-Perylene	15.378	264	474864	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.734	112	24964	4.61	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	2.31%#
12) SURR2,PHENOL-D6	4.471	99	30300	4.68	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	2.34%#
34) SURR4,NITROBENZENE-D5	5.294	82	21228	3.92	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	3.92%#
63) SURR5,2-FLUOROBIPHENYL	7.008	172	51646	4.88	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	4.88%#
88) SURR3,2,4,6-TRIBROMOPH...	8.456	330	6647	3.07	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	1.53%#
124) SURR6,TERPHENYL-D14	10.838	244	47009	4.89	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	4.89%#

Target Compounds						Qvalue
2) Pyridine	2.773	79	24873	4.647	ppm	89
3) N-Nitrosodimethylamine	2.730	74	10093	3.713	ppm	76
4) 2-Picoline	3.312	93	26085	4.553	ppm	98
5) N-Nitrosomethylamine	3.382	42	9189	4.380	ppm	82
6) Methyl Methansulfonate	3.606	80	10612	3.885	ppm	94
8) N-Nitrosodiethylamine	3.911	102	13067	4.401	ppm	98
9) Ethyl Mathanesulfonate	4.140	79	16635	4.453	ppm	98
10) Benzaldehyde	4.434	106	33553	9.484	ppm	97
11) Aniline	4.520	93	43407	4.660	ppm	82
13) Phenol	4.482	94	28933	4.569	ppm	94
14) bis(2-Clethyl)Ether	4.562	93	22491	4.773	ppm	96
15) Pentachloroethane	4.562	117	8662	4.658	ppm	89
16) 2-Chlorophenol	4.626	128	24629	4.734	ppm	90
17) 1,3-Diclbzene	4.755	146	27483	4.965	ppm	97
18) 1,4-Dichlorobenzene	4.819	146	28410	5.107	ppm	96
19) 1,2-Diclbzene	4.952	146	26133	4.940	ppm	99
20) Benzyl Alcohol	4.915	79	17802	4.438	ppm	91
21) 1-Methyl-2-pyrrolidinone	4.936	99	15683	4.810	ppm	96
22) 2,2'-oxybis(1-Chloropr...	5.027	45	21343	4.796	ppm	# 69
23) 2-Methylphenol	5.011	108	21486	4.612	ppm	91
24) 3+4-Methylphenol	5.150	108	24077	4.937	ppm	90
25) Acetophenone	5.150	105	34674	5.227	ppm	96
26) N-Nitroso-Di-n-propyla...	5.144	70	16248	4.795	ppm	83
27) N-Nitrosopyrrolidine	5.134	100	13714	5.270	ppm	81
28) N-Nitrosomorpholine	5.166	56	12723	5.004	ppm	93
29) o-Toluidine	5.182	106	40667	5.275	ppm	99
30) Hexachloroethane	5.257	117	10281	5.126	ppm	93
31) o,o,o-Triethylphosphor...	5.695	198	9553	4.417	ppm	95
32) Alpha-terpinol	5.988	121	8663	5.152	ppm	93
35) Nitrobenzene	5.310	77	21079	3.859	ppm	91
36) N-Nitrosopiperidine	5.449	42	11837	4.463	ppm	93
37) Isophorone	5.524	82	42665	4.593	ppm	96
38) 2-Nitrophenol	5.604	139	9162	3.270	ppm	95

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.636	107	23268	4.563	ppm	98
40) bis(-2-Chloroethoxy)Me...	5.721	93	26648	4.771	ppm	98
42) 2,4-Dichlorophenol	5.833	162	18142	4.521	ppm	87
43) a,a-Dimethylphenethyla...	5.839	58	44184m	4.336	ppm	
44) 1,2,4-Trichlorobenzene	5.908	180	20099	4.505	ppm	98
45) Naphthalene	5.988	128	76678	5.065	ppm	97
46) 4-Chloroaniline	6.036	127	34501	4.660	ppm	96
47) 2,6-Dichlorophenol	6.047	162	19657	4.520	ppm	96
48) Hexachlorobutadiene	6.101	225	10631	4.340	ppm	92
49) Hexachloropropene	6.068	213	10959	3.745	ppm	100
50) 4-Chloro-3-methylphenol	6.506	107	18040	4.631	ppm	92
51) N-N-di-n-butylamine	6.352	84	18435	5.584	ppm	96
52) Caprolactam	6.357	113	7213m	4.819	ppm	
54) Safrole	6.565	162	19265	4.496	ppm	96
55) 2-Methylnaphthalene	6.656	142	50329	5.211	ppm	98
56) 1-Methylnaphthalene	6.747	142	47787	5.290	ppm	94
58) Hexachlorocyclopentadiene	6.800	237	8895	3.363	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.811	216	18944	4.374	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.094	216	18663	4.559	ppm	93
61) 2,4,6-Trichlorophenol	6.928	196	10153	3.748	ppm	91
62) 2,4,5-Trichlorophenol	6.971	196	11964	4.257	ppm	89
64) Isosafrole	7.067	104	7228	4.053	ppm	# 25
65) 1,1'-Biphenyl	7.105	154	58418	4.984	ppm	96
66) 2-Chloronaphthalene	7.126	162	41794	4.828	ppm	94
67) 2-Nitroaniline	7.233	65	7365	3.287	ppm	94
68) 1,4-Naphthoquinone	7.302	158	13704	4.985	ppm	82
69) m-Dinitrobenzene	7.436	168	3907	2.437	ppm	85
70) Acenaphthylene	7.537	152	71309	5.181	ppm	95
71) Dimethyl phthalate	7.404	163	48289	5.057	ppm	97
72) 2,6-Dinitrotoluene	7.463	165	7196	3.365	ppm	91
73) Acenaphthene	7.708	153	47524	5.054	ppm	97
74) 3-Nitroaniline	7.633	138	8629	3.346	ppm	99
75) 2,4-Dinitrophenol	7.740	184	600	5.629	ppm	95
76) Dibenzofuran	7.874	168	60068	4.970	ppm	95
77) 2,4-Dinitrotoluene	7.863	165	7922	2.586	ppm	83
78) 4-Nitrophenol	7.820	65	4083	2.326	ppm	88
79) Pentachlorobenzene	7.831	250	17257	4.248	ppm	94
80) 1-Napthylamine	7.954	143	31539	5.094	ppm	98
81) 2-Napthylamine	8.034	143	43819	5.261	ppm	100
82) 2,3,4,6-Tetrachlorophenol	8.002	232	7035	3.232	ppm	87
83) Fluorene	8.216	166	51776	5.188	ppm	100
84) 4-Chlorophenyl-phenyle...	8.210	204	20984	4.892	ppm	98
85) Diethylphthalate	8.098	149	47846	4.743	ppm	98
86) 4-Nitroaniline	8.232	138	10421	3.693	ppm	92
87) 5-Nitro-o-toluidine	8.226	152	9148	3.091	ppm	94
89) Sulfotepp	8.483	322	7423	3.321	ppm	81
90) Octachlorocyclopentene	8.461	307	6145	3.130	ppm	97
92) Thionazin	8.173	107	8001	5.612	ppm	95
93) 4,6-Dinitro-2-methylph...	8.264	198	2293	1.376	ppm	89
94) Diphenylamine	8.328	169	76435	11.187	ppm	99
95) 1,2 Diphenylhydrazine	8.365	77	45741	5.548	ppm	94
96) N-Nitrosodiphenylamine	8.328	169	76435	11.187	ppm	99
97) 1,3,5-Trinirobenzene	8.589	74	1839	1.282	ppm	77
98) Diallate	8.611	86	17488	5.244	ppm	93
99) Phorate	8.622	121	8191	5.151	ppm	99
100) Phenacetin	8.632	108	21266	4.533	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

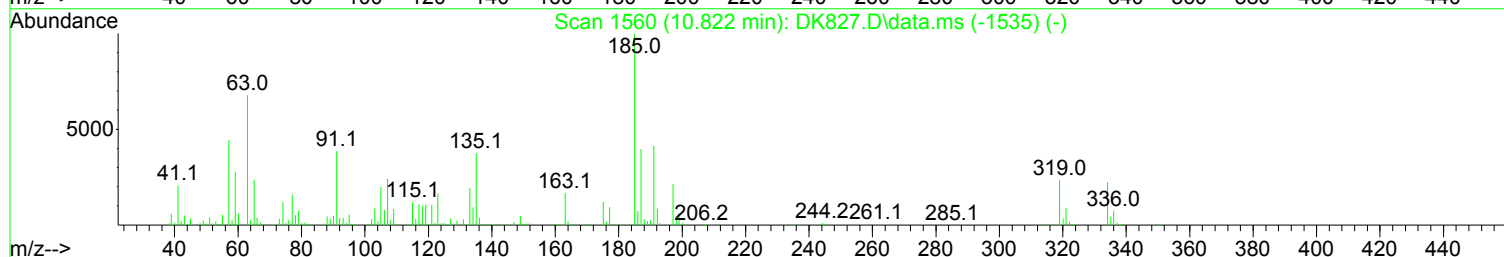
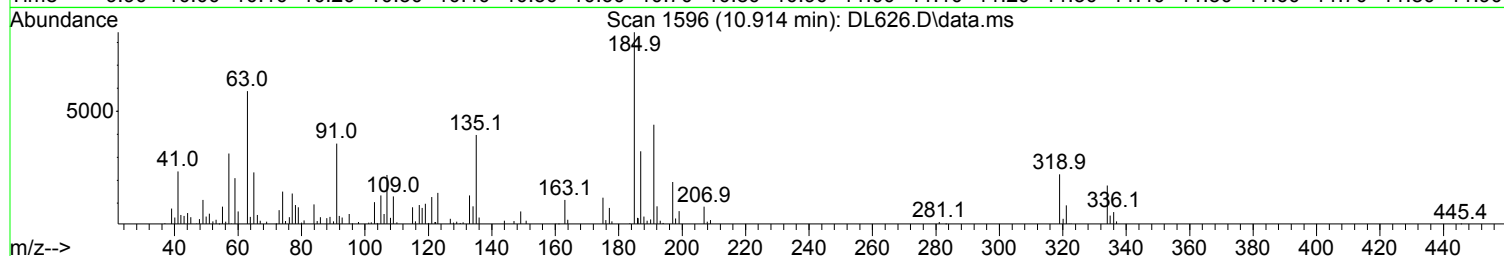
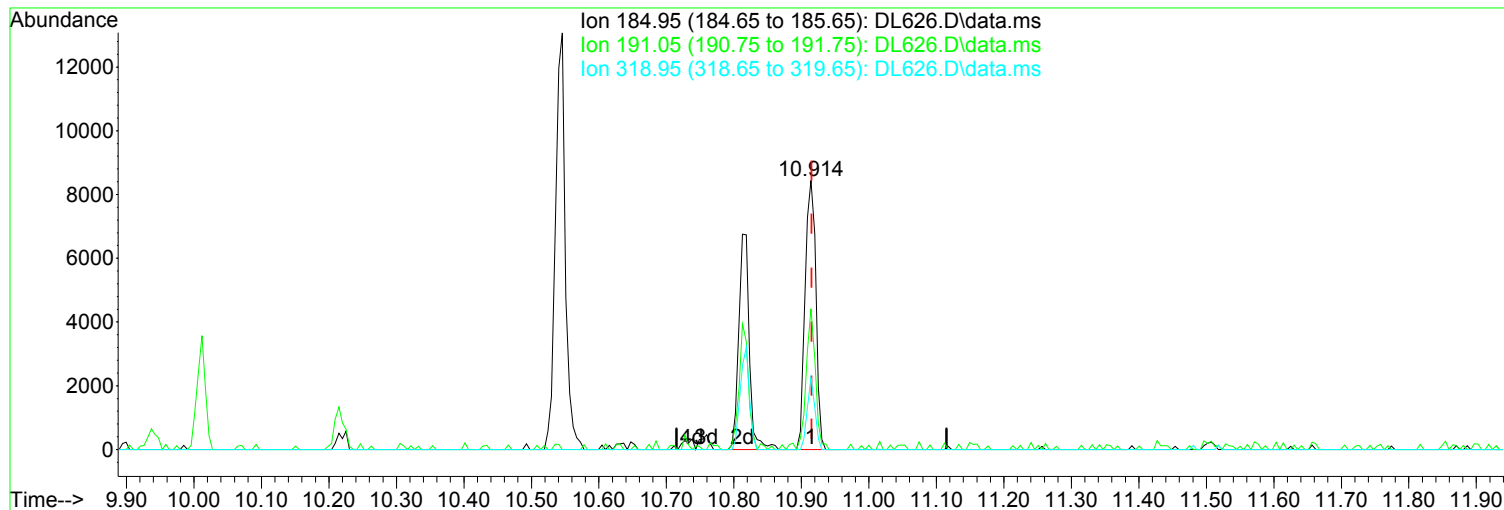
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 4-Bromophenyl-phenylether	8.696	248	11831	4.714	ppm	96
102) Hexachlorobenzene	8.755	284	14564	4.435	ppm	95
103) Dimethoate	8.787	87	14925	5.101	ppm	89
104) Atrazine	8.857	215	6349	4.489	ppm	91
105) Pentachlorophenol	8.953	266	1374	0.696	ppm	# 72
106) 4-Aminobiphenyl	8.953	169	40469	4.448	ppm	98
107) Pentachloronitrobenzene	8.958	237	2975	2.957	ppm	96
108) Pronamide	9.006	173	16919	4.462	ppm	97
109) Dinoseb	9.129	211	2572	1.066	ppm	85
110) Disulfoton	9.140	88	17787	5.545	ppm	86
111) Phenanthrene	9.166	178	64444	5.196	ppm	97
112) Anthracene	9.214	178	61811	4.990	ppm	99
113) Carbazole	9.375	167	60845	4.810	ppm	97
114) Di-n-butylphthalate	9.711	149	70155	4.509	ppm	97
115) 4-Nitroquinoline-1-oxide	9.935	190	2060	1.851	ppm	93
116) Fluoranthene	10.384	202	59362	4.693	ppm	99
118) Methyl Parathion	9.508	109	5170	2.378	ppm	97
119) Ethyl Parathion	9.893	97	3552	2.199	ppm	89
120) Methapyrilene	10.010	58	12861	4.353	ppm	95
121) Isodrin	10.218	193	5926	5.144	ppm	87
122) Benzidine	10.544	184	43205	5.239	ppm	99
123) Pyrene	10.651	202	63076	5.316	ppm	99
125) Aramite	10.913	185	7813m	5.603	ppm	
126) p-(Dimethylamino)azobe...	11.025	120	19049	5.204	ppm	97
127) Chlorobenzilate	11.084	139	18084	5.080	ppm	91
128) Butyl benzyl phthalate	11.527	149	34787	5.228	ppm	90
129) 3,3-Dimethylbenzidine	11.506	212	43048	4.604	ppm	98
130) 2-Acetylaminofluorene	11.890	181	18727	3.757	ppm	97
131) 3,3'-Dichlorobenzidine	12.387	252	27399	4.376	ppm	97
132) Benzo(a)anthracene	12.408	228	61301	4.921	ppm	99
133) Chrysene	12.478	228	59068	5.113	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.515	149	43293	4.696	ppm	95
136) Di-n-octyl phthalate	13.850	149	65157	3.957	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.539	256	27815	4.125	ppm	97
138) Benzo(b)Fluoranthene	14.539	252	59618	4.295	ppm	93
139) Benzo(k)fluoranthene	14.598	252	57322	4.319	ppm	97
140) Benzo(a)pyrene	15.244	252	52012	4.389	ppm	98
141) 3-Methylcholanthrene	16.014	268	28980	4.116	ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.306	276	49754	4.592	ppm	98
143) Dibenz(a,h)anthracene	17.365	278	54670	4.456	ppm	96
144) Benzo(g,h,i)perylene	17.771	276	53661	3.343	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL626.D  
 Acq On : 23 Jan 2018 1:17 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL626.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.914min (-0.001) 10.55 ppm m

After

response 16723

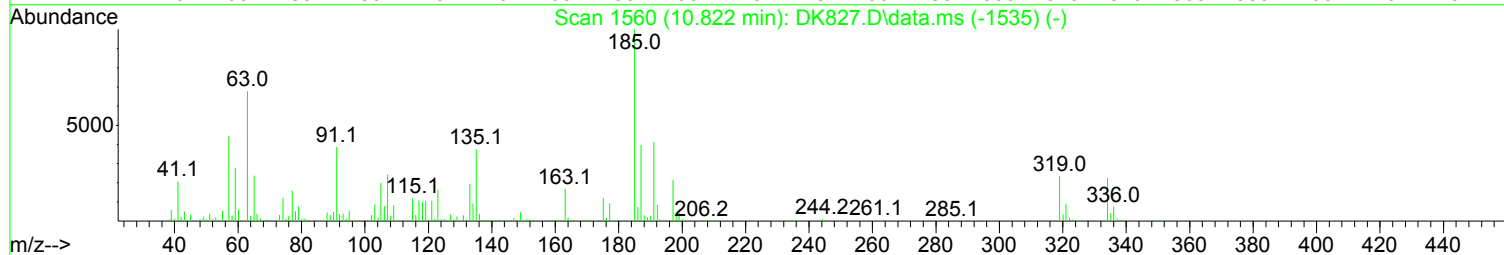
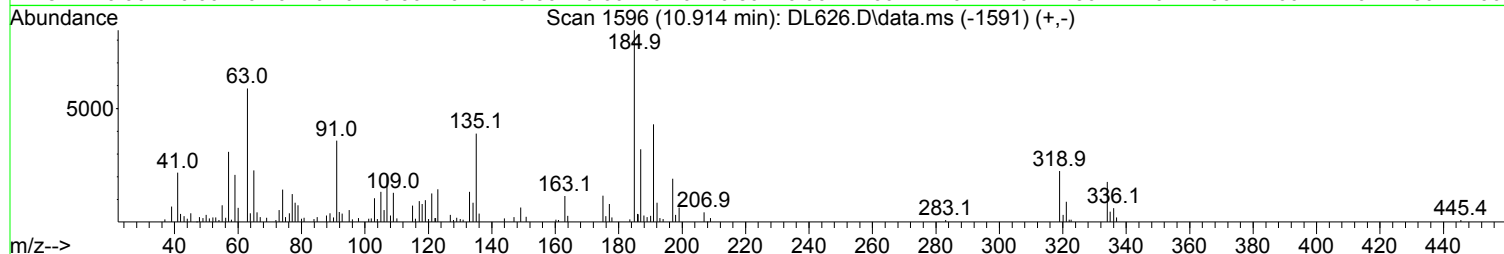
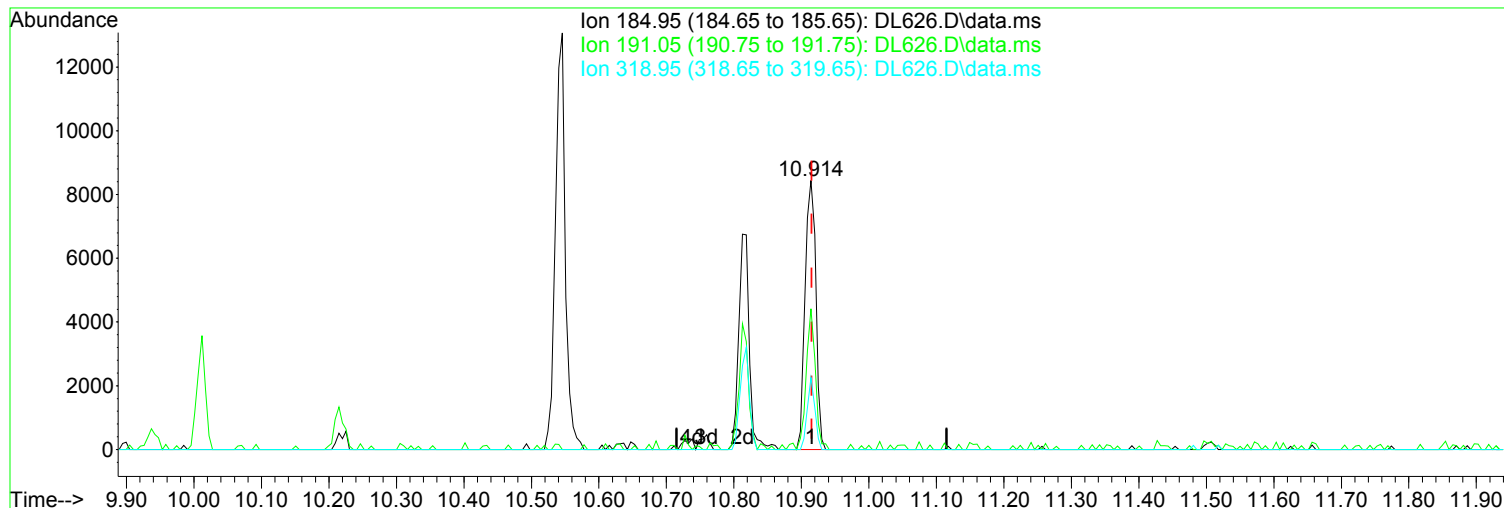
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	52.30
318.95	19.40	26.77
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL626.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.914min (-0.001) 5.90 ppm

Before

response 9347

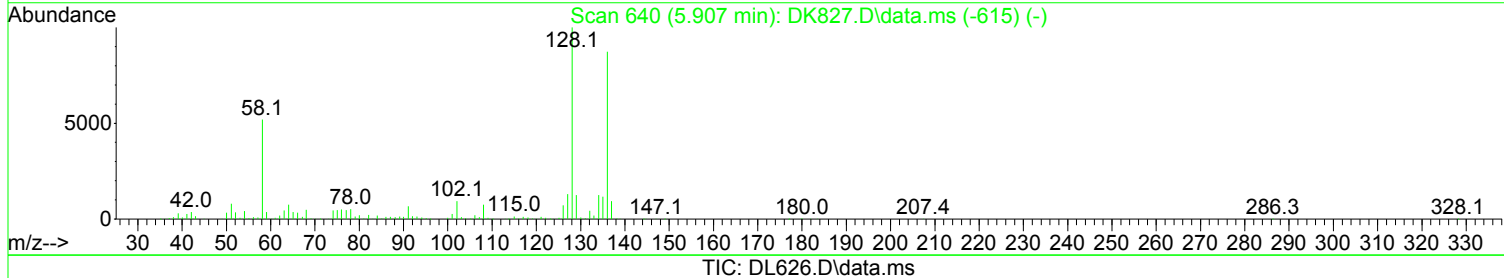
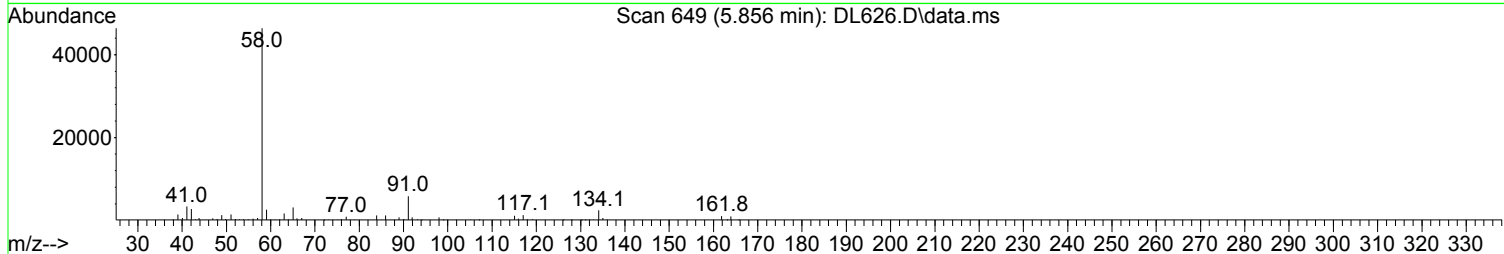
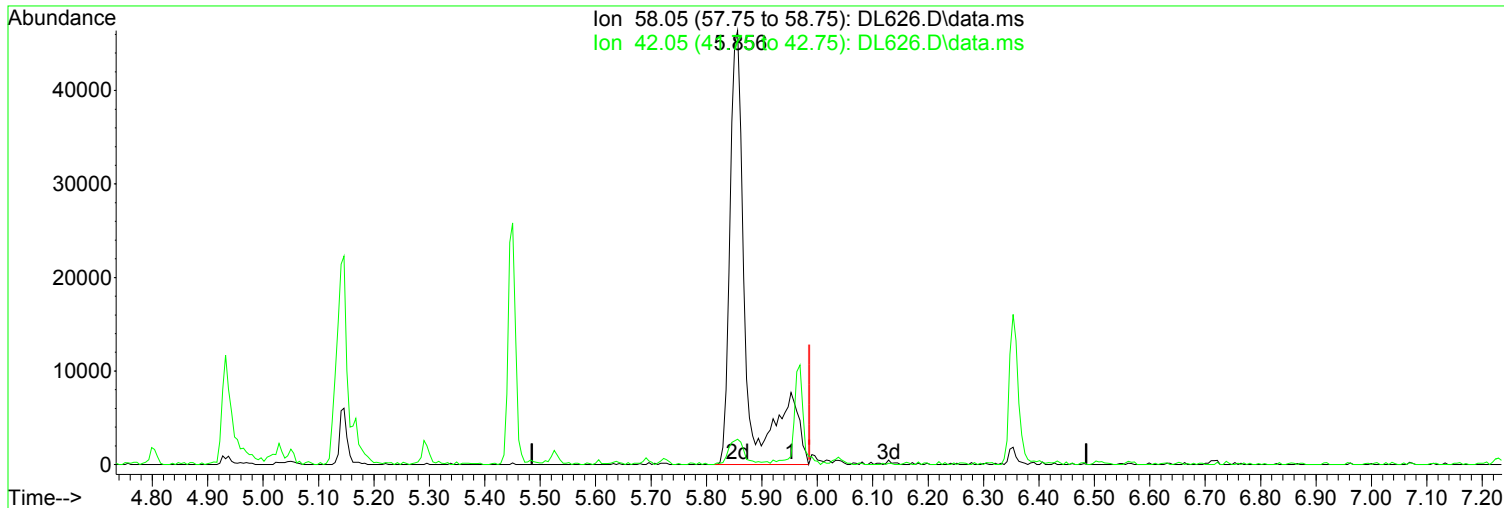
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	51.10
318.95	19.40	26.77
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.856min (-0.129) 9.19 ppm m

After

response 98332

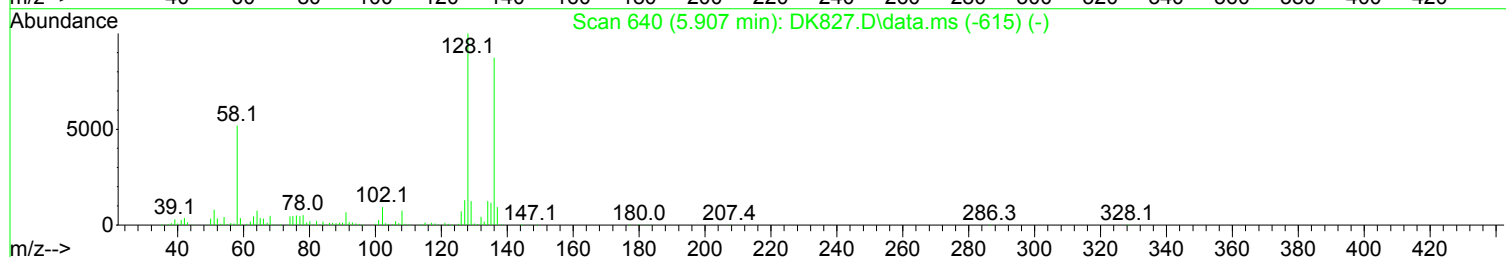
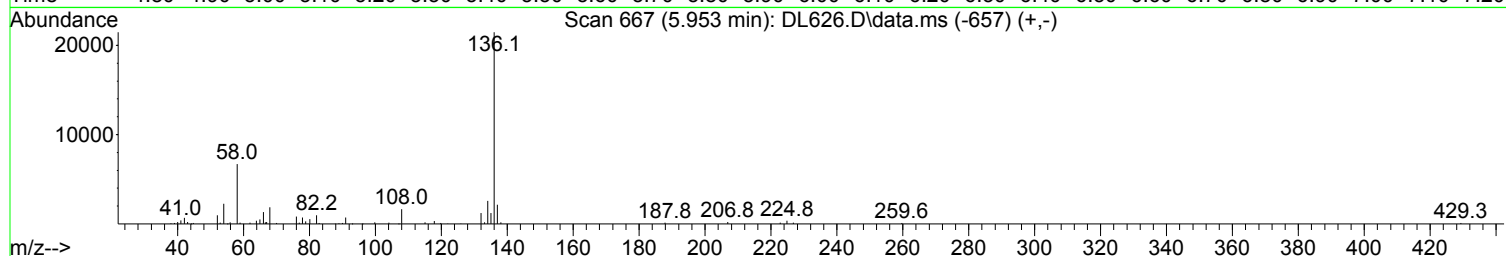
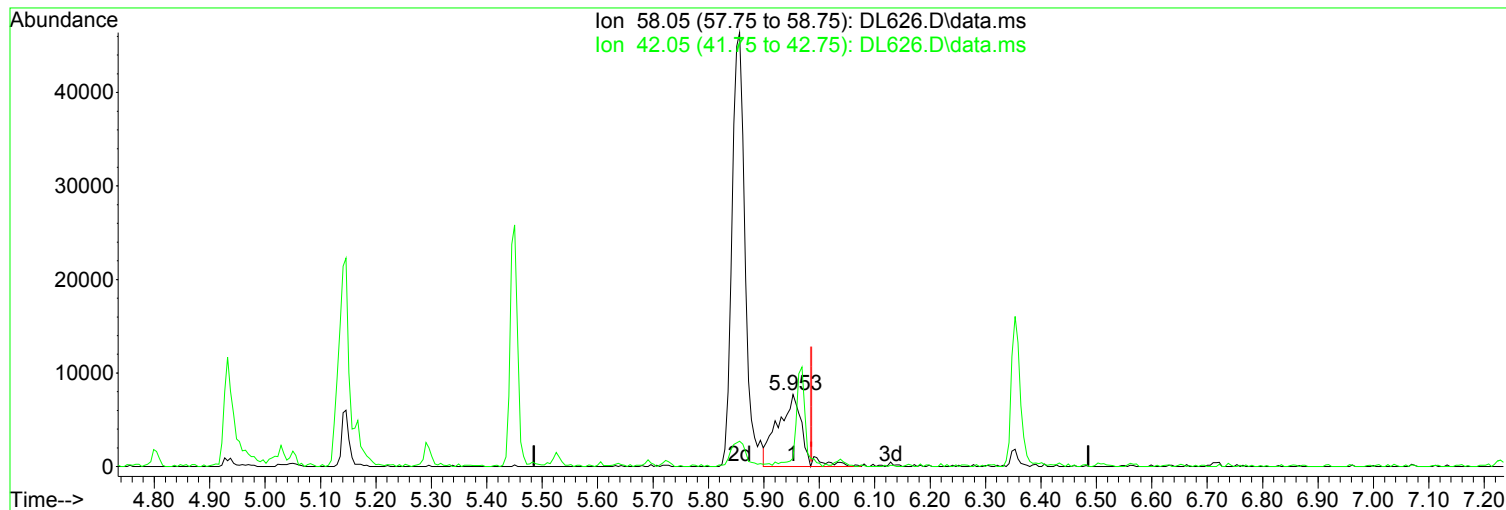
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	5.86
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL626.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.953min (-0.033) 2.24 ppm

Before

response 23954

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	9.98
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL626.D  
 Acq On : 23 Jan 2018 1:17 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.804	152	160682	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	629605	40.00	ppm	0.00
57) d10-Acenaphthene	7.678	164	296294	40.00	ppm	0.00
91) d10-Phenanthrene	9.141	188	470099	40.00	ppm	0.00
117) d12-Chrysene	12.431	240	498697	40.00	ppm	-0.01
135) d12-Perylene	15.380	264	477975	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.736	112	51883	9.26	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	4.63%#
12) SURR2,PHENOL-D6	4.473	99	65945	9.83	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	4.92%#
34) SURR4,NITROBENZENE-D5	5.296	82	43113	7.59	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	7.59%#
63) SURR5,2-FLUOROBIPHENYL	7.010	172	104836	9.46	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	9.46%#
88) SURR3,2,4,6-TRIBROMOPH...	8.452	330	13858	6.10	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	3.05%#
124) SURR6,TERPHENYL-D14	10.840	244	104326	9.54	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	9.54%#

Target Compounds						Qvalue
2) Pyridine	2.769	79	53143	9.587	ppm	98
3) N-Nitrosodimethylamine	2.732	74	24206	8.599	ppm	94
4) 2-Picoline	3.309	93	55039	9.276	ppm	99
5) N-Nitrosomethylamine	3.378	42	19412	8.935	ppm	88
6) Methyl Methansulfonate	3.602	80	21912	7.745	ppm	96
8) N-Nitrosodiethylamine	3.912	102	27125	8.822	ppm	96
9) Ethyl Mathanesulfonate	4.142	79	35524	9.183	ppm	96
10) Benzaldehyde	4.436	106	69145	18.872	ppm	95
11) Aniline	4.516	93	94267	9.772	ppm	82
13) Phenol	4.484	94	62691	9.558	ppm	99
14) bis(2-Clethyl)Ether	4.559	93	46606	9.550	ppm	93
15) Pentachloroethane	4.564	117	18734	9.727	ppm	95
16) 2-Chlorophenol	4.623	128	52515	9.747	ppm	97
17) 1,3-Diclbzene	4.756	146	57992	10.116	ppm	98
18) 1,4-Dichlorobenzene	4.820	146	56592	9.823	ppm	97
19) 1,2-Diclbzene	4.954	146	55695	10.166	ppm	98
20) Benzyl Alcohol	4.916	79	37499	9.027	ppm	94
21) 1-Methyl-2-pyrrolidinone	4.932	99	33627	9.958	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.029	45	43352	9.407	ppm	# 67
23) 2-Methylphenol	5.013	108	48318	10.015	ppm	95
24) 3+4-Methylphenol	5.146	108	49895	9.878	ppm	87
25) Acetophenone	5.151	105	70470	10.257	ppm	97
26) N-Nitroso-Di-n-propyla...	5.146	70	36042	10.270	ppm	82
27) N-Nitrosopyrrolidine	5.135	100	26965	10.006	ppm	82
28) N-Nitrosomorpholine	5.167	56	26332	10.000	ppm	95
29) o-Toluidine	5.183	106	85695	10.734	ppm	96
30) Hexachloroethane	5.258	117	21432	10.317	ppm	90
31) o,o,o-Triethylphosphor...	5.696	198	21989	9.817	ppm	94
32) Alpha-terpinol	5.990	121	18737	10.760	ppm	87
35) Nitrobenzene	5.312	77	44651	7.787	ppm	100
36) N-Nitrosopiperidine	5.450	42	24284	8.720	ppm	97
37) Isophorone	5.525	82	90550	9.285	ppm	98
38) 2-Nitrophenol	5.605	139	19996	6.797	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
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 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.637	107	50189	9.375	ppm	97
40) bis(-2-Chloroethoxy)Me...	5.723	93	56457	9.627	ppm	97
41) Benzoic Acid	5.696	105	9088	2.300	ppm	92
42) 2,4-Dichlorophenol	5.835	162	37532	8.909	ppm	95
43) a,a-Dimethylphenethyla...	5.856	58	98332m	9.191	ppm	
44) 1,2,4-Trichlorobenzene	5.910	180	42323	9.035	ppm	99
45) Naphthalene	5.990	128	157299	9.896	ppm	100
46) 4-Chloroaniline	6.038	127	72846	9.371	ppm	98
47) 2,6-Dichlorophenol	6.043	162	42109	9.222	ppm	95
48) Hexachlorobutadiene	6.097	225	20872	8.116	ppm	93
49) Hexachloropropene	6.070	213	23001	7.487	ppm	96
50) 4-Chloro-3-methylphenol	6.508	107	39284	9.606	ppm	99
51) N-N-di-n-butylamine	6.353	84	39792	11.481	ppm	94
52) Caprolactam	6.358	113	17009	10.823	ppm	# 69
53) p-Phenylenediamine	6.385	80	2363	10.934	ppm	# 60
54) Safrole	6.567	162	40727	9.052	ppm	96
55) 2-Methylnaphthalene	6.652	142	98397	9.703	ppm	98
56) 1-Methylnaphthalene	6.748	142	91808	9.680	ppm	99
58) Hexachlorocyclopentadiene	6.802	237	20262	7.309	ppm	96
59) 1,2,4,5-Tetrachloroben...	6.812	216	38999	8.590	ppm	94
60) 1,2,3,4-Tetrachloroben...	7.090	216	38344	8.935	ppm	99
61) 2,4,6-Trichlorophenol	6.930	196	23854	8.401	ppm	99
62) 2,4,5-Trichlorophenol	6.973	196	23730	8.056	ppm	92
64) Isosafrole	7.069	104	16730	8.950	ppm	# 30
65) 1,1'-Biphenyl	7.106	154	120297	9.792	ppm	97
66) 2-Chloronaphthalene	7.128	162	89757	9.891	ppm	96
67) 2-Nitroaniline	7.229	65	16559	7.051	ppm	96
68) 1,4-Naphthoquinone	7.304	158	31355	10.880	ppm	81
69) m-Dinitrobenzene	7.437	168	9145	5.442	ppm	93
70) Acenaphthylene	7.539	152	145129	10.059	ppm	98
71) Dimethyl phthalate	7.405	163	103593	10.349	ppm	98
72) 2,6-Dinitrotoluene	7.464	165	16662	7.433	ppm	90
73) Acenaphthene	7.710	153	100715	10.219	ppm	99
74) 3-Nitroaniline	7.635	138	20953	7.751	ppm	92
75) 2,4-Dinitrophenol	7.742	184	1674	6.548	ppm	96
76) Dibenzofuran	7.875	168	125840	9.933	ppm	96
77) 2,4-Dinitrotoluene	7.859	165	16882	5.257	ppm	96
78) 4-Nitrophenol	7.817	65	10327	5.613	ppm	95
79) Pentachlorobenzene	7.833	250	35233	8.274	ppm	97
80) 1-Naphthylamine	7.955	143	67182	10.352	ppm	99
81) 2-Naphthylamine	8.036	143	92509	10.596	ppm	100
82) 2,3,4,6-Tetrachlorophenol	7.998	232	15112	6.623	ppm	94
83) Fluorene	8.217	166	102013	9.752	ppm	94
84) 4-Chlorophenyl-phenyle...	8.212	204	40412	8.987	ppm	94
85) Diethylphthalate	8.100	149	97993	9.267	ppm	98
86) 4-Nitroaniline	8.239	138	23389	7.906	ppm	94
87) 5-Nitro-o-toluidine	8.228	152	20037	6.458	ppm	94
89) Sulfotepp	8.484	322	14999	6.401	ppm	83
90) Octachlorocyclopentene	8.463	307	14060	6.832	ppm	97
92) Thionazin	8.180	107	16823	11.784	ppm	97
93) 4,6-Dinitro-2-methylph...	8.260	198	5345	3.202	ppm	# 57
94) Diphenylamine	8.329	169	160256	23.424	ppm	100
95) 1,2 Diphenylhydrazine	8.367	77	98151	11.890	ppm	95
96) N-Nitrosodiphenylamine	8.329	169	160256	23.424	ppm	100
97) 1,3,5-Trinitrobenzene	8.591	74	5196	3.616	ppm	91
98) Diallate	8.612	86	38017	11.385	ppm	87

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL626.D  
 Acq On : 23 Jan 2018 1:17 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

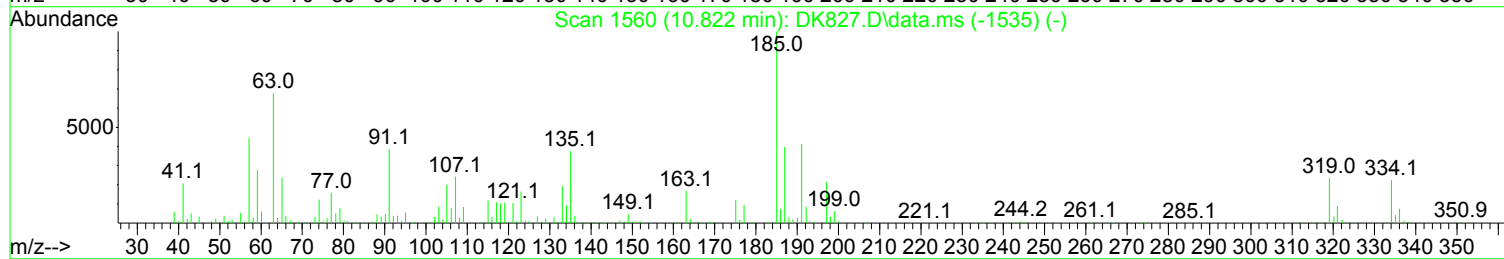
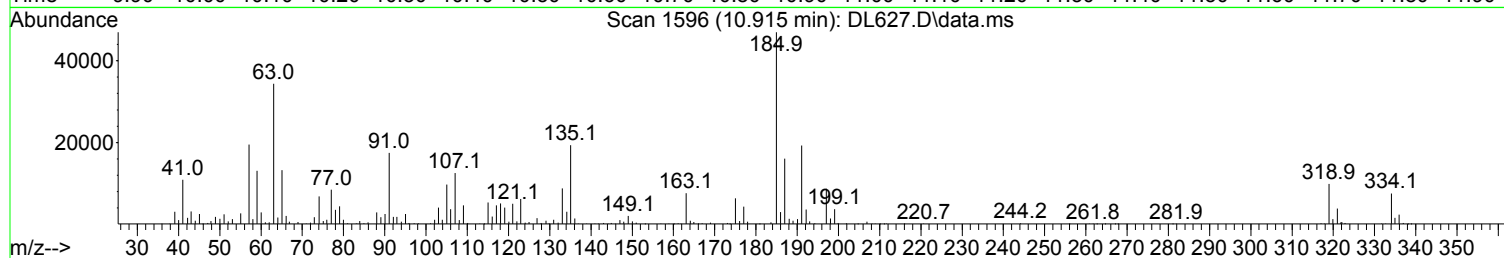
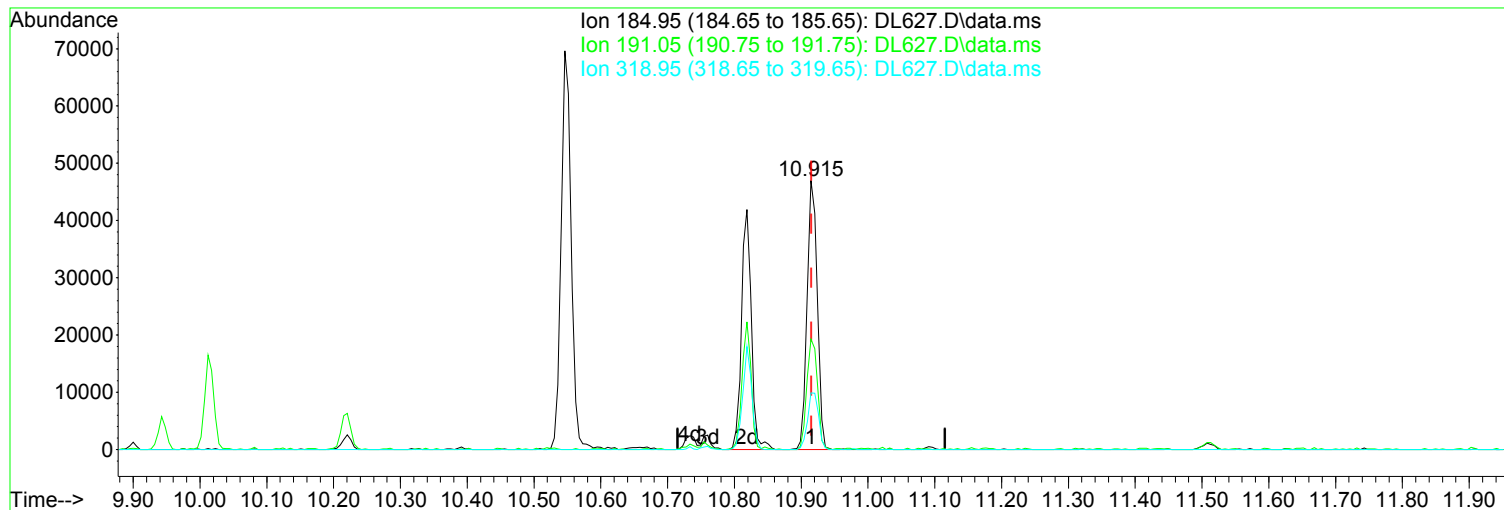
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.623	121	17710	11.122	ppm	98
100) Phenacetin	8.634	108	48768	10.382	ppm	97
101) 4-Bromophenyl-phenylether	8.698	248	25163	10.014	ppm	97
102) Hexachlorobenzene	8.751	284	31000	9.428	ppm	93
103) Dimethoate	8.789	87	32891	11.228	ppm	91
104) Atrazine	8.858	215	14323	10.113	ppm	81
105) Pentachlorophenol	8.954	266	4738	2.396	ppm	81
106) 4-Aminobiphenyl	8.954	169	90703	9.955	ppm	97
107) Pentachloronitrobenzene	8.960	237	6462	6.414	ppm	94
108) Pronamide	9.008	173	37534	9.885	ppm	99
109) Dinoseb	9.130	211	7674	3.176	ppm	92
110) Disulfoton	9.136	88	31353	9.761	ppm	97
111) Phenanthrene	9.168	178	124719	10.043	ppm	98
112) Anthracene	9.216	178	125345	10.107	ppm	98
113) Carbazole	9.376	167	132350	10.448	ppm	99
114) Di-n-butylphthalate	9.713	149	163075	10.466	ppm	99
115) 4-Nitroquinonline-1-oxide	9.937	190	5146	4.618	ppm	93
116) Fluoranthene	10.386	202	135276	10.680	ppm	99
118) Methyl Parathion	9.510	109	14481	5.858	ppm	94
119) Ethyl Parathion	9.894	97	9382	5.108	ppm	69
120) Methapyrilene	10.012	58	28067	8.356	ppm	94
121) Isodrin	10.220	193	12213	9.325	ppm	95
122) Benzidine	10.541	184	94821	10.113	ppm	98
123) Pyrene	10.653	202	140598	10.422	ppm	96
125) Aramite	10.914	185	16723m	10.548	ppm	
126) p-(Dimethylamino)azobe...	11.027	120	43542	10.463	ppm	99
127) Chlorobenzilate	11.085	139	41065	10.147	ppm	96
128) Butyl benzyl phthalate	11.529	149	76724	10.143	ppm	96
129) 3,3-Dimethylbenzidine	11.502	212	100516	9.456	ppm	99
130) 2-Acetylaminofluorene	11.892	181	46247	8.160	ppm	96
131) 3,3'-Dichlorobenzidine	12.389	252	62008	8.710	ppm	96
132) Benzo(a)anthracene	12.415	228	139750	9.868	ppm	96
133) Chrysene	12.474	228	132505	10.089	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.517	149	101211	9.656	ppm	97
136) Di-n-octyl phthalate	13.847	149	157083	9.477	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.541	256	63270	9.321	ppm	98
138) Benzo(b)Fluoranthene	14.541	252	137864	9.867	ppm	96
139) Benzo(k)fluoranthene	14.600	252	133899	10.023	ppm	99
140) Benzo(a)pyrene	15.241	252	115455	9.680	ppm	98
141) 3-Methylcholanthrene	16.015	268	66327	9.358	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.313	276	111823	10.254	ppm	94
143) Dibenz(a,h)anthracene	17.366	278	120825	9.783	ppm	99
144) Benzo(g,h,i)perylene	17.772	276	117081	9.283	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.915min (-0.001) 59.56 ppm m

After

response 92803

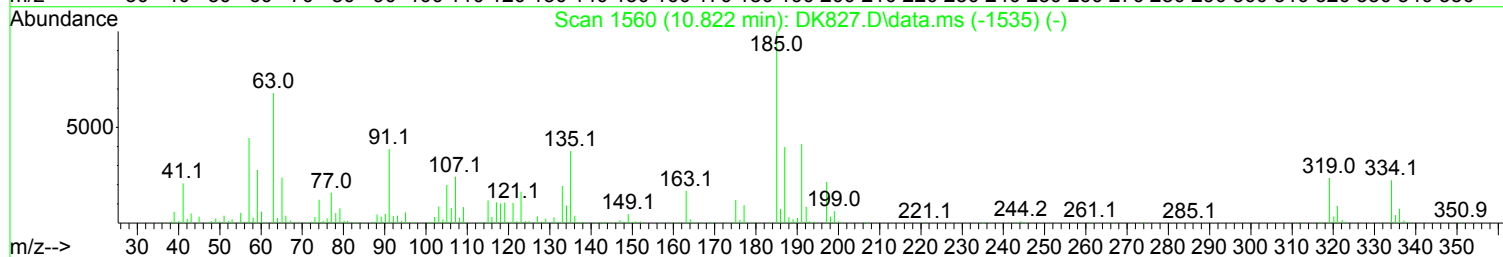
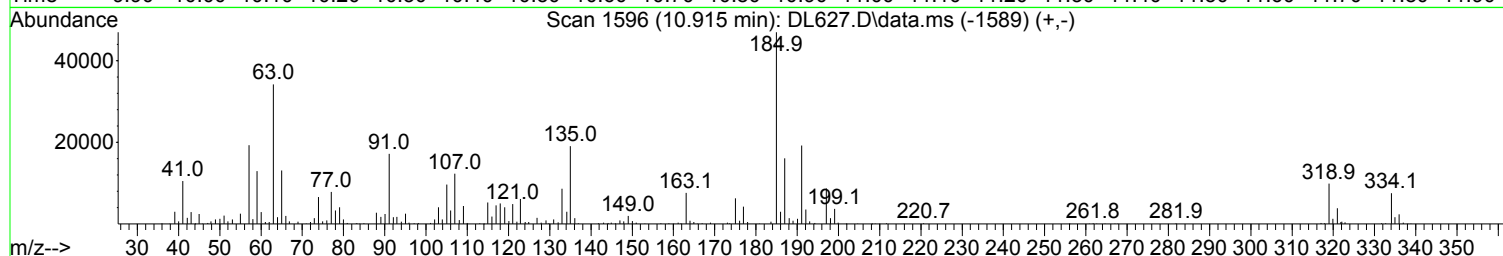
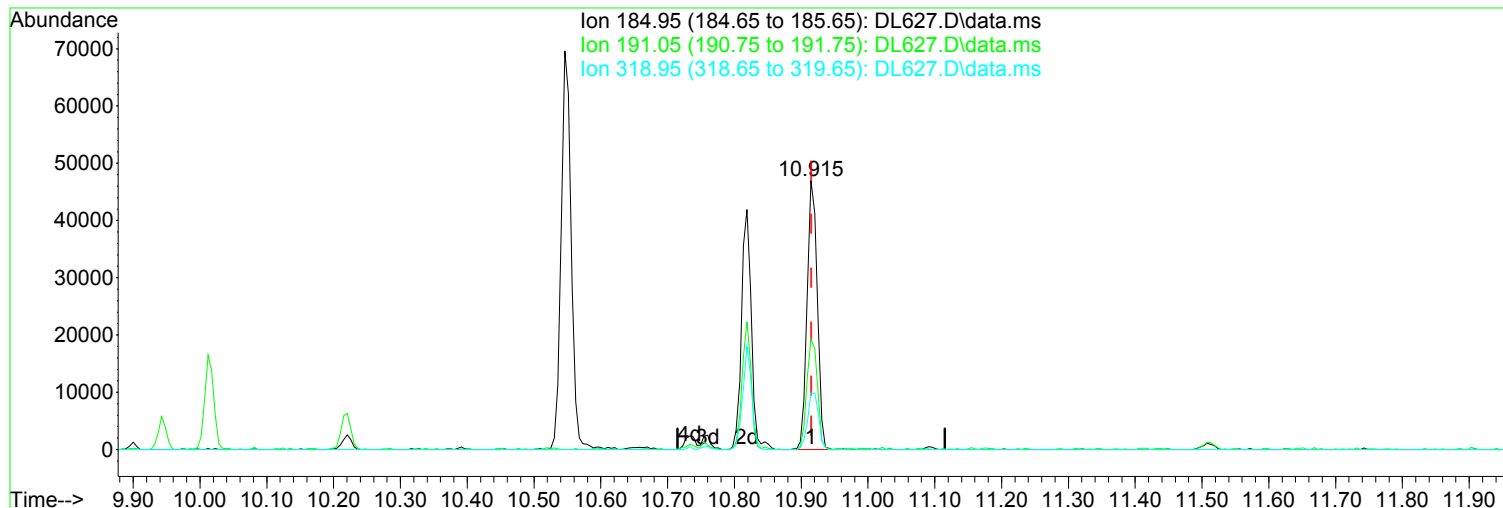
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	41.09
318.95	19.40	21.05
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL627.D  
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ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL627.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min (-0.001) 31.65 ppm

Before

response 49307

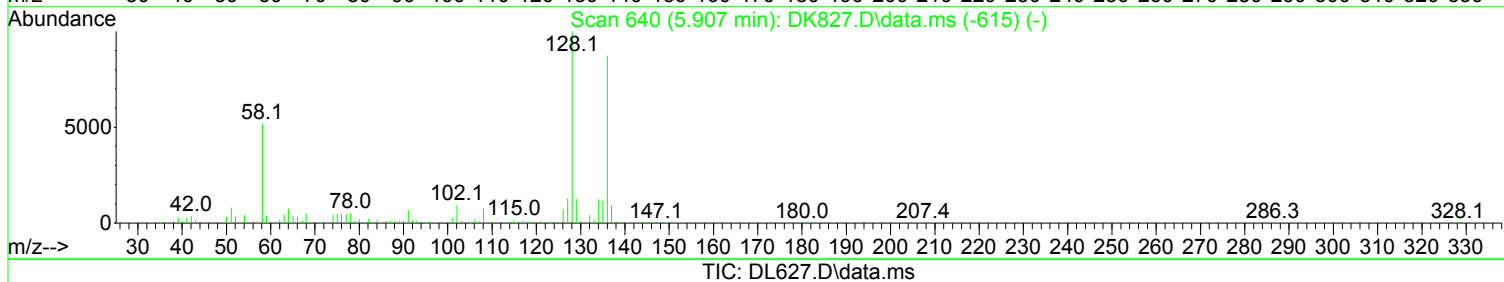
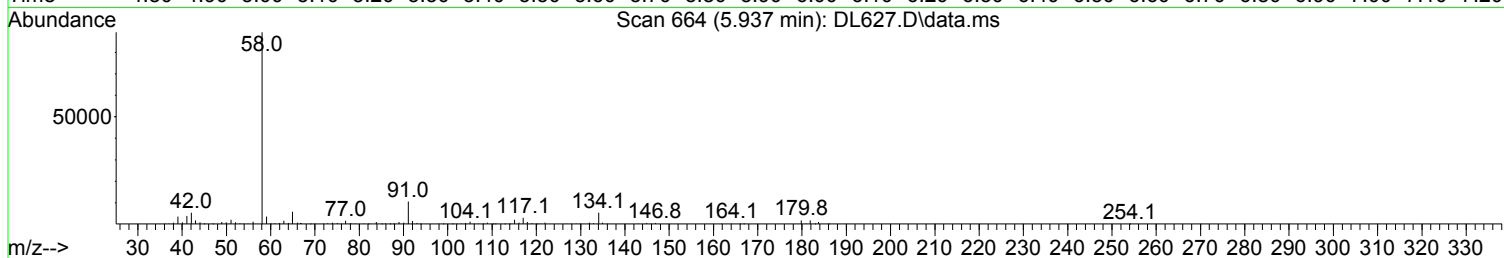
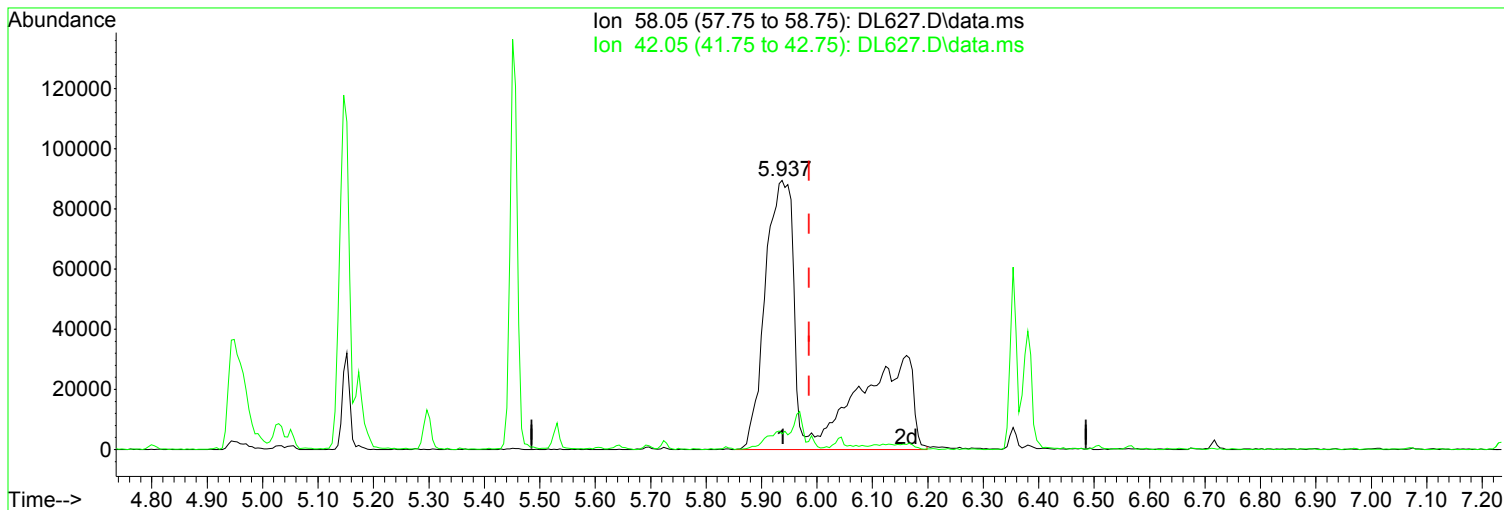
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	40.89
318.95	19.40	21.05
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
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 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.937min (-0.049) 48.19 ppm m

After

response 523061

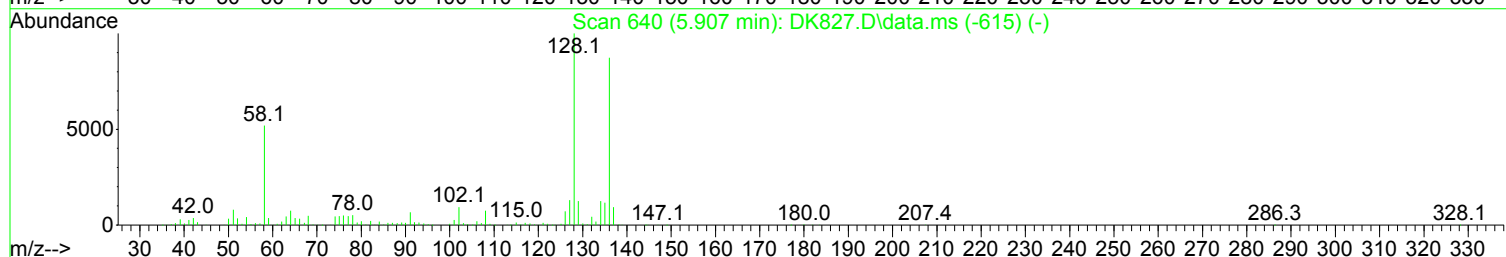
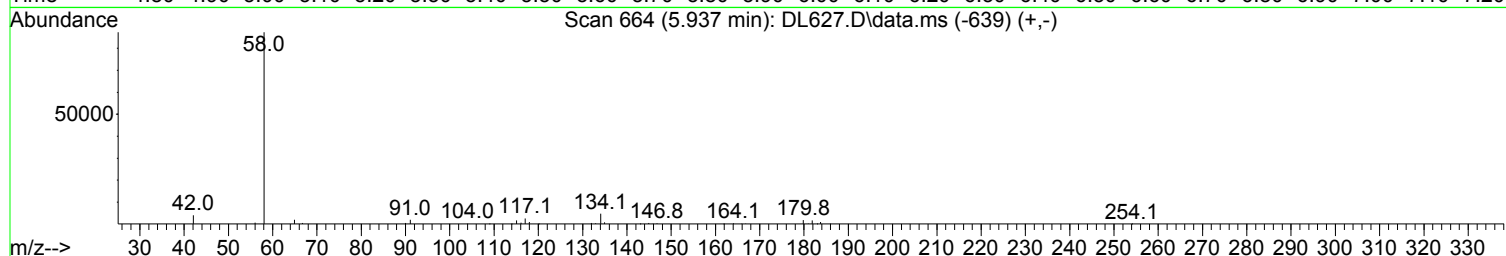
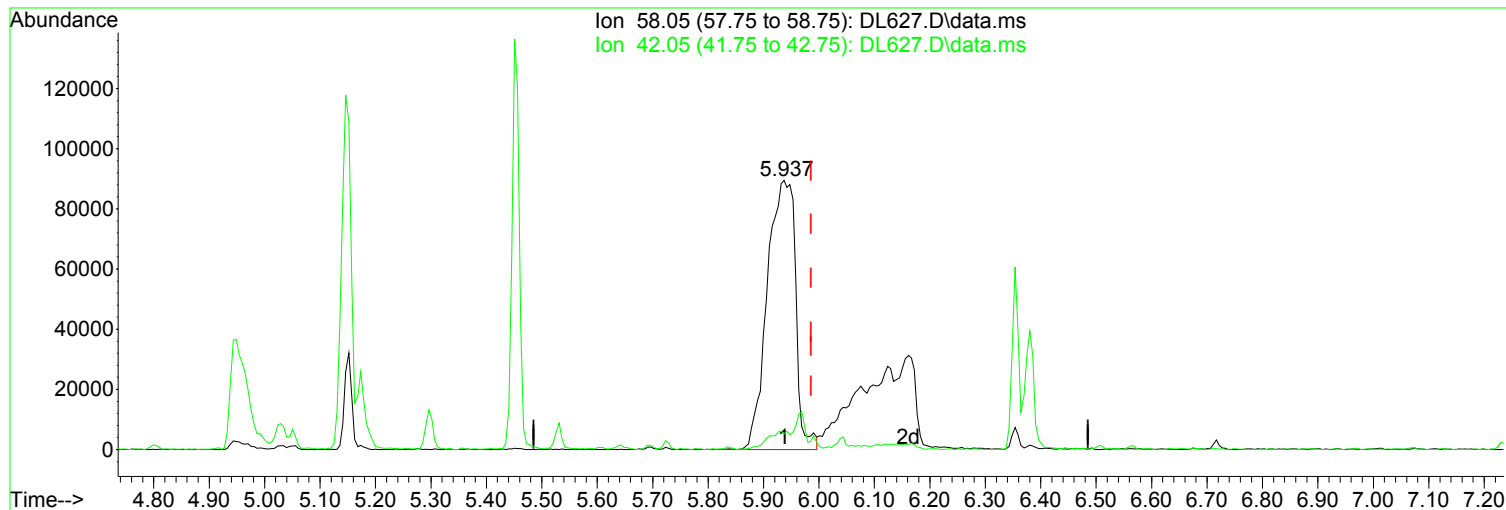
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	5.88
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL627.D  
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Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL627.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.937min (-0.049) 29.17 ppm

Before

response 316633

Ion	Exp%	Act%	
58.05	100.00	100.00	01/24/18
42.05	9.80	4.59	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.805	152	167762	40.00	ppm	0.00	
33) d8-Naphthalene	5.969	136	638777	40.00	ppm	0.00	
57) d10-Acenaphthene	7.678	164	298631	40.00	ppm	0.00	
91) d10-Phenanthrene	9.147	188	497437	40.00	ppm	0.00	
117) d12-Chrysene	12.437	240	490131	40.00	ppm	0.00	
135) d12-Perylene	15.385	264	489111	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.736	112	269193	46.01	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	23.00%	
12) SURR2,PHENOL-D6	4.473	99	335790	47.93	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	23.97%	
34) SURR4,NITROBENZENE-D5	5.296	82	234789	40.74	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	40.74%	
63) SURR5,2-FLUOROBIPHENYL	7.010	172	530157	47.46	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	47.46%	
88) SURR3,2,4,6-TRIBROMOPH...	8.458	330	72471	31.65	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	15.82%#	
124) SURR6,TERPHENYL-D14	10.845	244	525939	48.93	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	48.93%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.759	79	268167	46.336	ppm		97
3) N-Nitrosodimethylamine	2.727	74	134693	45.832	ppm		98
4) 2-Picoline	3.304	93	283357	45.738	ppm		99
5) N-Nitrosomethylamine	3.379	42	95242	41.987	ppm		98
6) Methyl Methansulfonate	3.603	80	114410	38.732	ppm		99
8) N-Nitrosodiethylamine	3.913	102	150578	46.904	ppm		97
9) Ethyl Mathanesulfonate	4.142	79	183218	45.361	ppm		98
10) Benzaldehyde	4.436	106	179972	47.047	ppm		93
11) Aniline	4.522	93	482105	47.865	ppm		86
13) Phenol	4.484	94	329669	48.143	ppm		98
14) bis(2-Clethyl)Ether	4.564	93	243143	47.722	ppm		99
15) Pentachloroethane	4.564	117	93659	46.575	ppm		96
16) 2-Chlorophenol	4.628	128	271529	48.268	ppm		95
17) 1,3-Diclbzene	4.757	146	292372	48.850	ppm		98
18) 1,4-Dichlorobenzene	4.821	146	298075	49.557	ppm		99
19) 1,2-Diclbzene	4.954	146	282682	49.419	ppm		99
20) Benzyl Alcohol	4.917	79	197148	45.454	ppm		99
21) 1-Methyl-2-pyrrolidinone	4.949	99	181247	51.406	ppm		99
22) 2,2'-oxybis(1-Chloropr...	5.029	45	224779	46.718	ppm	#	81
23) 2-Methylphenol	5.024	108	241525	47.950	ppm		99
24) 3+4-Methylphenol	5.157	108	264841	50.219	ppm		96
25) Acetophenone	5.157	105	353171	49.235	ppm		97
26) N-Nitroso-Di-n-propyla...	5.152	70	177232	48.372	ppm		83
27) N-Nitrosopyrrolidine	5.141	100	144268	51.274	ppm		88
28) N-Nitrosomorpholine	5.173	56	129054	46.941	ppm		99
29) o-Toluidine	5.189	106	422261	50.658	ppm		98
30) Hexachloroethane	5.259	117	109407	50.445	ppm		87
31) o,o,o-Triethylphosphor...	5.697	198	109807	46.957	ppm		92
32) Alpha-terpinol	5.990	121	92409	50.829	ppm		99
35) Nitrobenzene	5.312	77	243402	41.838	ppm		95
36) N-Nitrosopiperidine	5.451	42	125137	44.289	ppm		95
37) Isophorone	5.531	82	472727	47.779	ppm		98
38) 2-Nitrophenol	5.606	139	118860	39.823	ppm		97

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.643	107	250300	46.083	ppm	96
40) bis(-2-Chloroethoxy)Me...	5.723	93	285928	48.057	ppm	99
41) Benzoic Acid	5.723	105	80709	20.130	ppm	99
42) 2,4-Dichlorophenol	5.841	162	199736	46.731	ppm	98
43) a,a-Dimethylphenethyla...	5.937	58	523061m	48.190	ppm	
44) 1,2,4-Trichlorobenzene	5.910	180	215237	45.289	ppm	99
45) Naphthalene	5.990	128	792620	49.149	ppm	99
46) 4-Chloroaniline	6.038	127	373869	47.407	ppm	98
47) 2,6-Dichlorophenol	6.049	162	217858	47.029	ppm	95
48) Hexachlorobutadiene	6.097	225	104310	39.977	ppm	98
49) Hexachloropropene	6.070	213	124734	40.017	ppm	98
50) 4-Chloro-3-methylphenol	6.508	107	202176	48.727	ppm	97
51) N-N-di-n-butylamine	6.354	84	162300	46.154	ppm	96
52) Caprolactam	6.380	113	83165	52.161	ppm	94
53) p-Phenylenediamine	6.391	80	11971	54.597	ppm	82
54) Safrole	6.567	162	214338	46.956	ppm	98
55) 2-Methylnaphthalene	6.658	142	512053	49.770	ppm	99
56) 1-Methylnaphthalene	6.754	142	471490	49.000	ppm	97
58) Hexachlorocyclopentadiene	6.802	237	109935	39.344	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.813	216	199924	43.689	ppm	97
60) 1,2,3,4-Tetrachloroben...	7.096	216	189237	43.751	ppm	98
61) 2,4,6-Trichlorophenol	6.930	196	124024	43.338	ppm	97
62) 2,4,5-Trichlorophenol	6.973	196	133644	45.013	ppm	97
64) Isosafrole	7.069	104	81250	43.124	ppm	# 32
65) 1,1'-Biphenyl	7.112	154	599516	48.418	ppm	97
66) 2-Chloronaphthalene	7.133	162	443310	48.468	ppm	100
67) 2-Nitroaniline	7.235	65	96832	40.908	ppm	95
68) 1,4-Naphthoquinone	7.304	158	155867	53.663	ppm	83
69) m-Dinitrobenzene	7.443	168	54974	32.456	ppm	93
70) Acenaphthylene	7.539	152	731702	50.319	ppm	99
71) Dimethyl phthalate	7.411	163	480962	47.670	ppm	99
72) 2,6-Dinitrotoluene	7.470	165	100960	44.689	ppm	92
73) Acenaphthene	7.710	153	498712	50.204	ppm	97
74) 3-Nitroaniline	7.641	138	112081	41.137	ppm	99
75) 2,4-Dinitrophenol	7.742	184	20475	22.350	ppm	99
76) Dibenzofuran	7.881	168	617835	48.385	ppm	97
77) 2,4-Dinitrotoluene	7.865	165	118682	36.666	ppm	95
78) 4-Nitrophenol	7.822	65	66082	35.638	ppm	93
79) Pentachlorobenzene	7.833	250	177268	41.303	ppm	96
80) 1-Naphthylamine	7.961	143	304452	46.548	ppm	95
81) 2-Naphthylamine	8.036	143	412557	46.885	ppm	97
82) 2,3,4,6-Tetrachlorophenol	8.004	232	81805	35.570	ppm	96
83) Fluorene	8.218	166	510028	48.376	ppm	98
84) 4-Chlorophenyl-phenyle...	8.212	204	204594	45.143	ppm	100
85) Diethylphthalate	8.100	149	475889	44.650	ppm	98
86) 4-Nitroaniline	8.244	138	140845	47.239	ppm	96
87) 5-Nitro-o-toluidine	8.234	152	130462	41.720	ppm	99
89) Sulfotepp	8.485	322	83104	35.188	ppm	94
90) Octachlorocyclopentene	8.469	307	74447	35.893	ppm	97
92) Thionazin	8.185	107	78077	51.684	ppm	90
93) 4,6-Dinitro-2-methylph...	8.266	198	52083	29.487	ppm	90
94) Diphenylamine	8.335	169	716969	99.036	ppm	98
95) 1,2 Diphenylhydrazine	8.372	77	461138	52.791	ppm	100
96) N-Nitrosodiphenylamine	8.335	169	716969	99.036	ppm	98
97) 1,3,5-Trinitrobenzene	8.602	74	36917	24.280	ppm	81
98) Diallate	8.613	86	166365	47.082	ppm	88

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

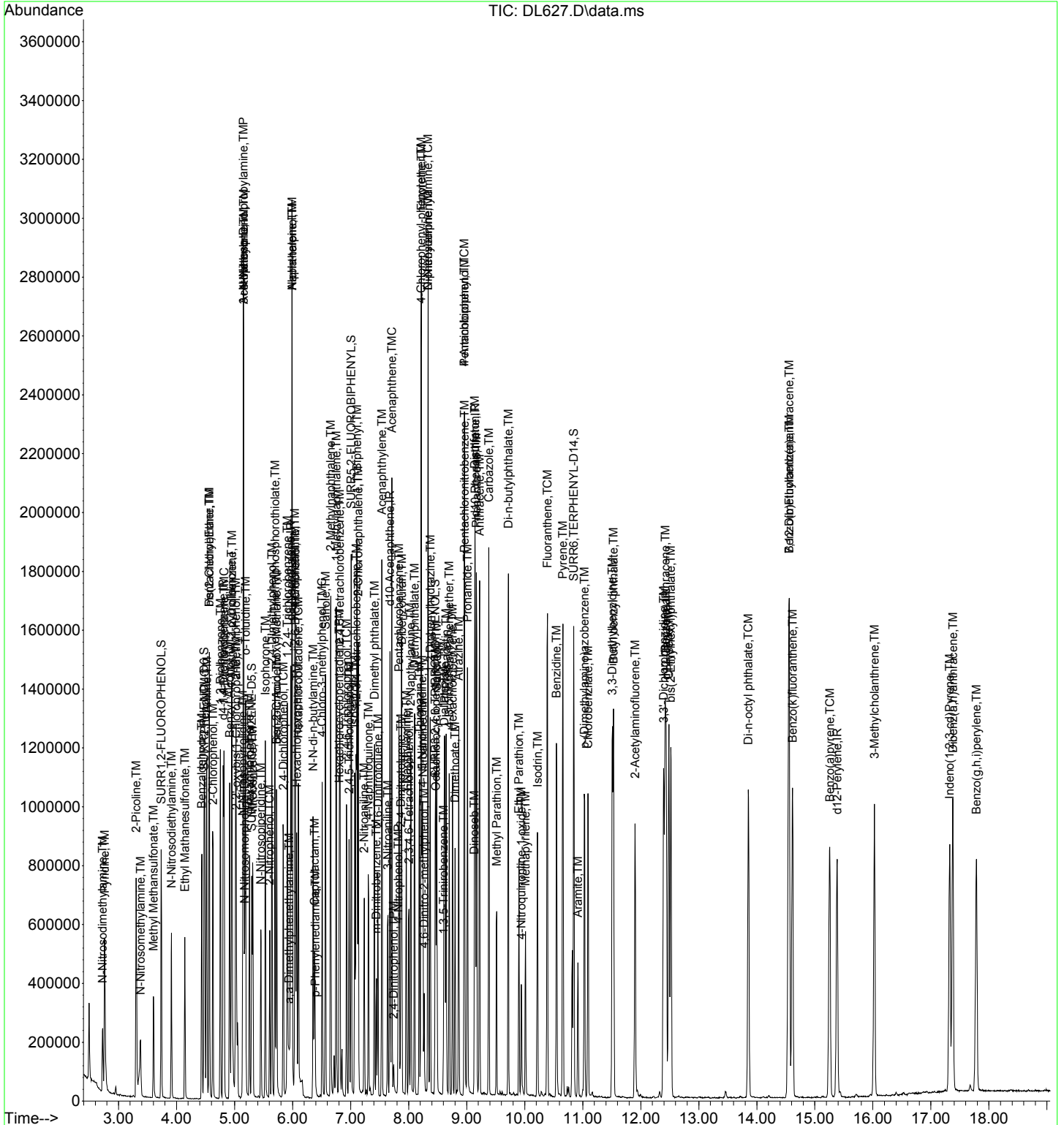
Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.623	121	83595	49.611	ppm	89
100) Phenacetin	8.645	108	257613	51.829	ppm	97
101) 4-Bromophenyl-phenylether	8.698	248	110959	41.731	ppm	99
102) Hexachlorobenzene	8.757	284	143616	41.277	ppm	98
103) Dimethoate	8.800	87	153447	49.502	ppm	100
104) Atrazine	8.864	215	73215	48.853	ppm	96
105) Pentachlorophenol	8.960	266	40981	19.582	ppm	95
106) 4-Aminobiphenyl	8.960	169	496468	51.497	ppm	99
107) Pentachloronitrobenzene	8.965	237	42769	40.121	ppm	92
108) Pronamide	9.013	173	207281	51.588	ppm	99
109) Dinoseb	9.131	211	66826	26.136	ppm	95
110) Disulfoton	9.142	88	157898	46.457	ppm	99
111) Phenanthrene	9.168	178	651319	49.564	ppm	100
112) Anthracene	9.222	178	650874	49.597	ppm	99
113) Carbazole	9.382	167	698816	52.136	ppm	99
114) Di-n-butylphthalate	9.718	149	864857	52.458	ppm	99
115) 4-Nitroquinonline-1-oxide	9.943	190	42404	35.965	ppm	96
116) Fluoranthene	10.391	202	702699	52.430	ppm	99
118) Methyl Parathion	9.515	109	101901	41.941	ppm	98
119) Ethyl Parathion	9.900	97	72325	40.067	ppm	98
120) Methapyrilene	10.012	58	137610	41.686	ppm	98
121) Isodrin	10.220	193	65591	50.955	ppm	99
122) Benzidine	10.546	184	508537	55.186	ppm	97
123) Pyrene	10.658	202	728540	54.948	ppm	100
125) Aramite	10.915	185	92803m	59.561	ppm	
126) p-(Dimethylamino)azobe...	11.027	120	240836	58.886	ppm	97
127) Chlorobenzilate	11.091	139	216909	54.534	ppm	99
128) Butyl benzyl phthalate	11.529	149	387138	52.074	ppm	97
129) 3,3-Dimethylbenzidine	11.508	212	531237	50.848	ppm	99
130) 2-Acetylaminofluorene	11.903	181	290520	52.157	ppm	99
131) 3,3'-Dichlorobenzidine	12.394	252	323425	46.226	ppm	99
132) Benzo(a)anthracene	12.421	228	679376	48.810	ppm	98
133) Chrysene	12.485	228	627019	48.576	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.517	149	538970	52.318	ppm	99
136) Di-n-octyl phthalate	13.852	149	894231	52.723	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.557	256	331249	47.690	ppm	99
138) Benzo(b)Fluoranthene	14.557	252	703800	49.225	ppm	99
139) Benzo(k)fluoranthene	14.616	252	672301	49.181	ppm	99
140) Benzo(a)pyrene	15.257	252	609728	49.958	ppm	99
141) 3-Methylcholanthrene	16.026	268	364031	50.193	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.324	276	563776	50.521	ppm	97
143) Dibenz(a,h)anthracene	17.377	278	611653	48.397	ppm	100
144) Benzo(g,h,i)perylene	17.783	276	557496	52.712	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

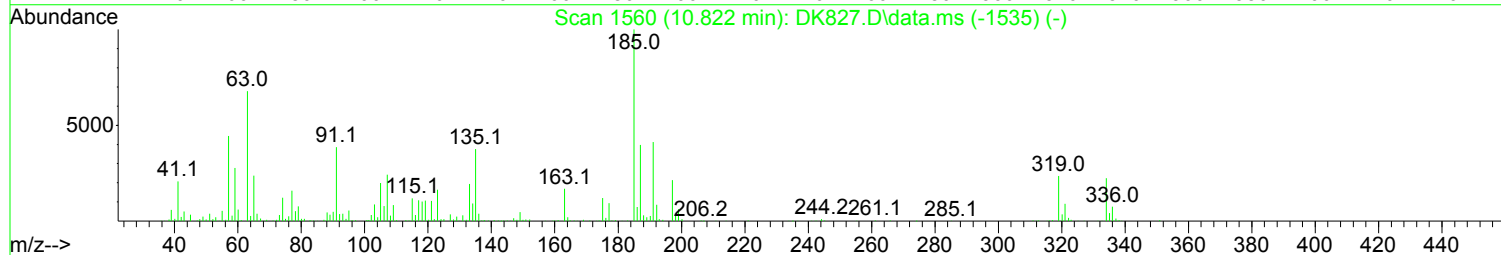
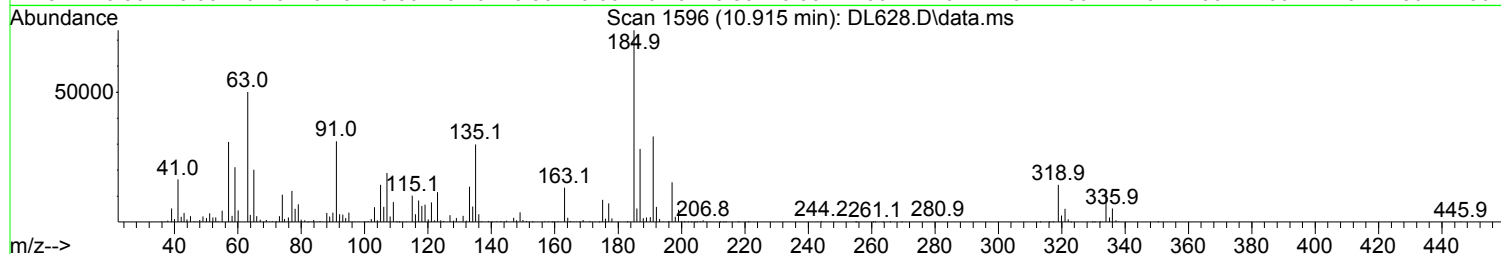
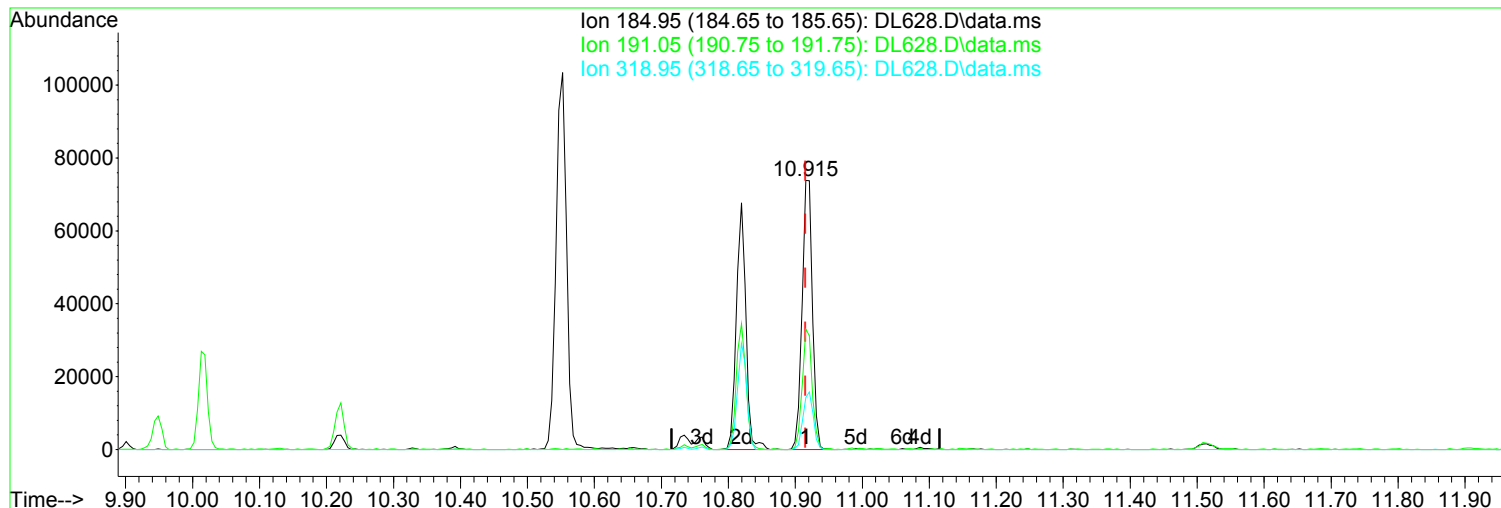
Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL627.D  
Acq On : 23 Jan 2018 1:47 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min ( 0.000) 96.15 ppm m

After

response 145793

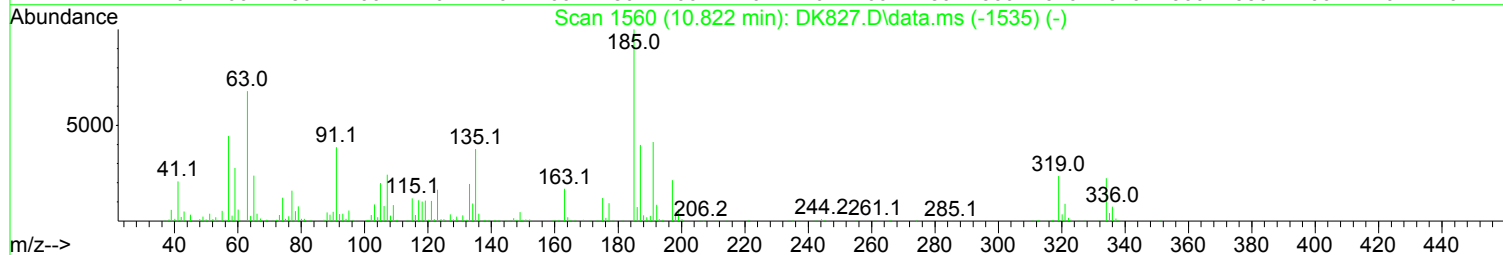
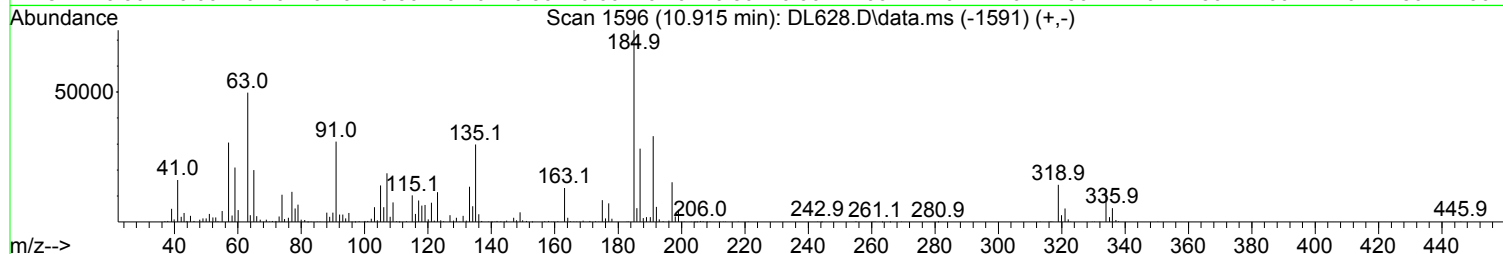
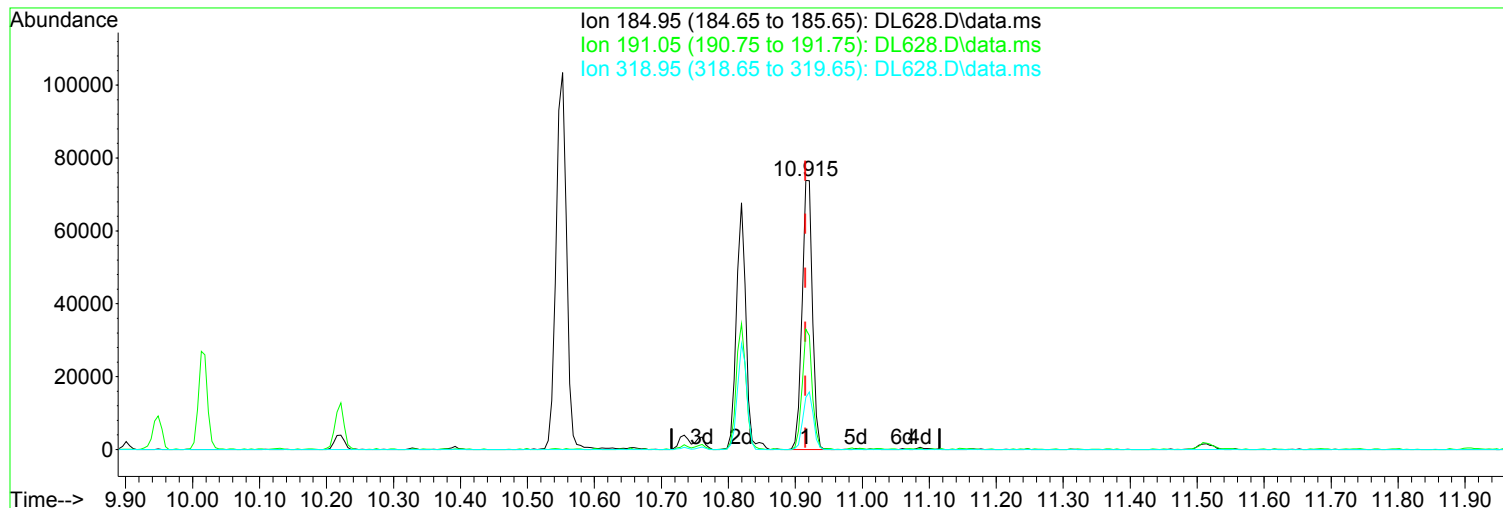
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	44.69
318.95	19.40	19.41
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min ( 0.000) 52.28 ppm

Before

response 79281

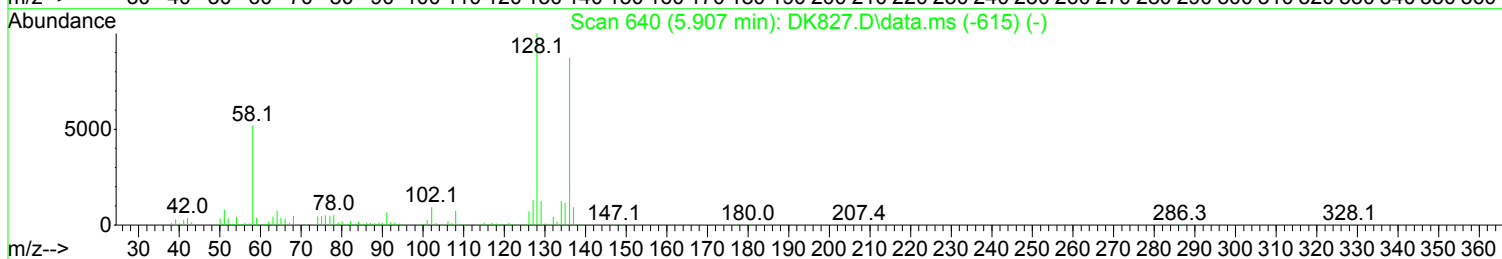
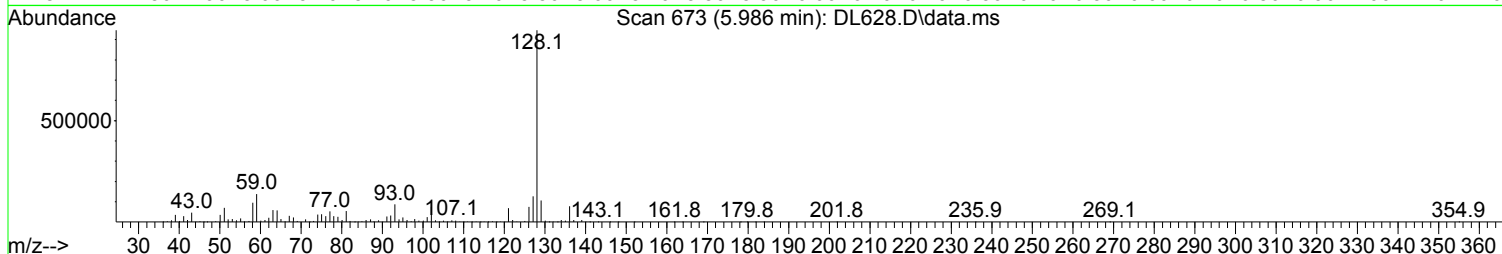
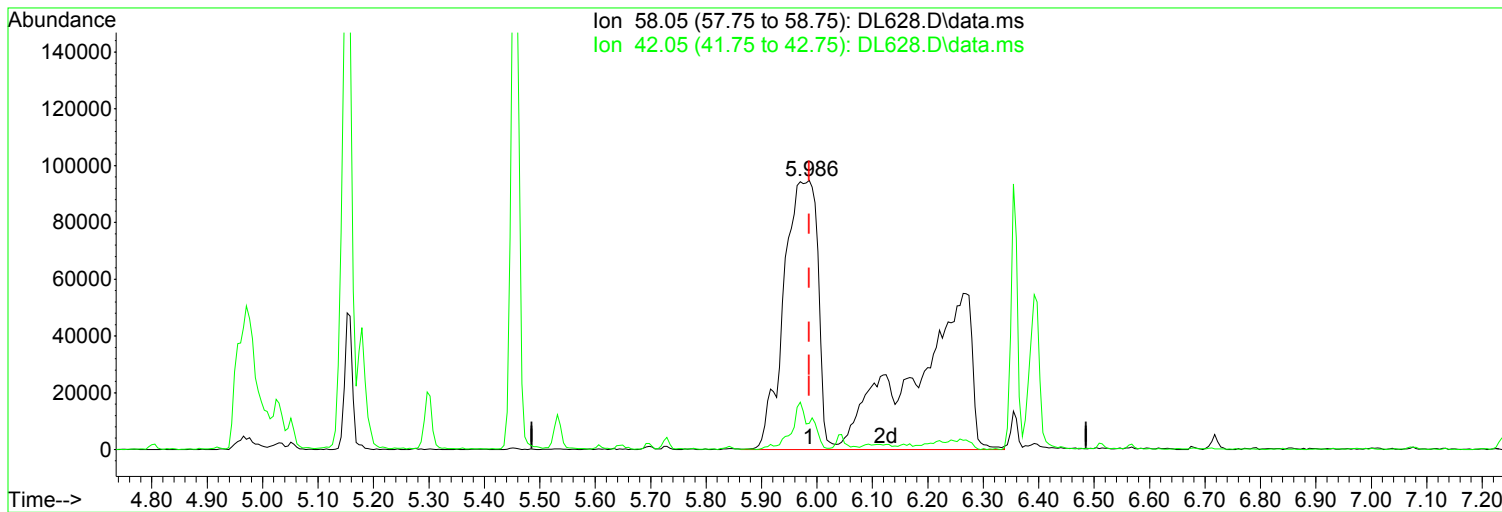
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	44.69
318.95	19.40	19.41
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
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ALS Vial : 8 Sample Multiplier: 1

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Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.986min ( 0.000) 75.84 ppm m

After

response 810044

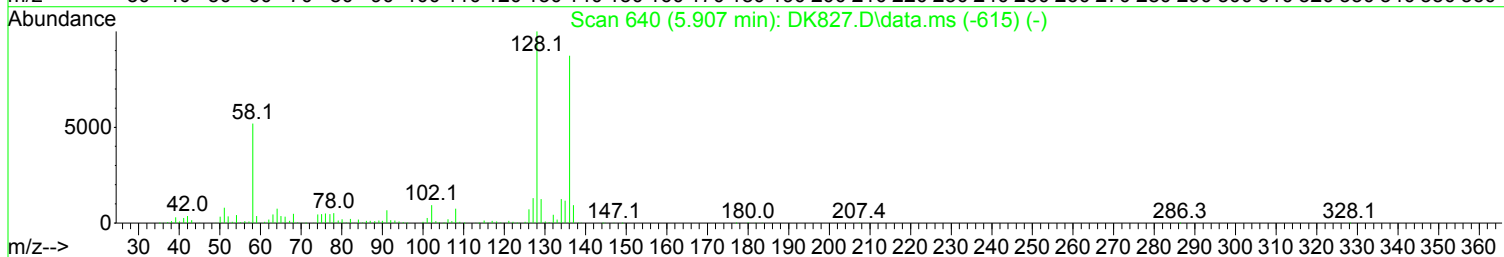
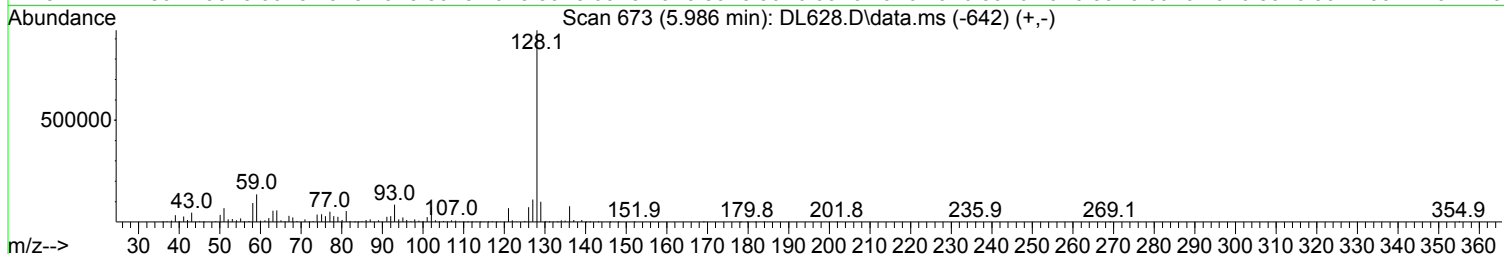
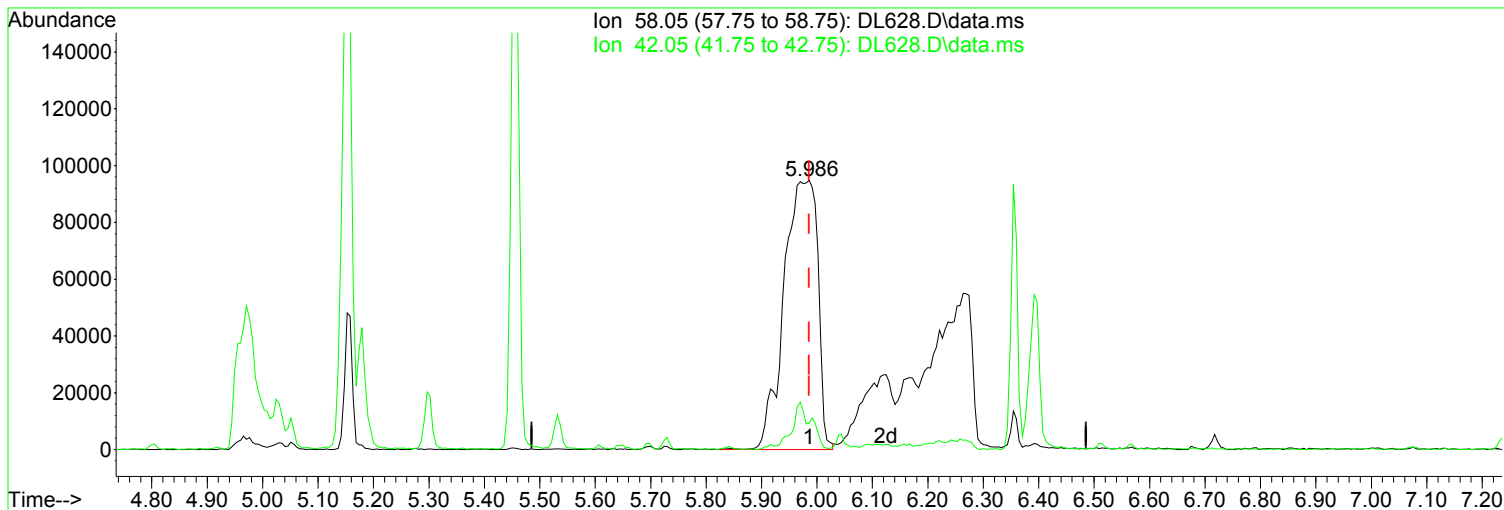
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	9.80
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.986min ( 0.000) 37.55 ppm

Before

response 401070

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	9.57
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	162352	40.00	ppm	0.00
33) d8-Naphthalene	5.970	136	628608	40.00	ppm	0.00
57) d10-Acenaphthene	7.679	164	299837	40.00	ppm	0.00
91) d10-Phenanthrene	9.148	188	504203	40.00	ppm	0.00
117) d12-Chrysene	12.443	240	476984	40.00	ppm	0.00
135) d12-Perylene	15.386	264	482398	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.737	112	432058	76.31	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	38.16%
12) SURR2,PHENOL-D6	4.474	99	537797	79.33	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	39.66%
34) SURR4,NITROBENZENE-D5	5.297	82	382569	67.45	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	67.45%
63) SURR5,2-FLUOROBIPHENYL	7.011	172	831359	74.12	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	74.12%
88) SURR3,2,4,6-TRIBROMOPH...	8.459	330	115470	50.22	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	25.11%#
124) SURR6,TERPHENYL-D14	10.846	244	839338	80.23	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	80.23%

Target Compounds						Qvalue
2) Pyridine	2.754	79	440417	78.634	ppm	100
3) N-Nitrosodimethylamine	2.722	74	221044	77.720	ppm	100
4) 2-Picoline	3.299	93	461149	76.916	ppm	100
5) N-Nitrosomethylamine	3.374	42	155810	70.977	ppm	100
6) Methyl Methansulfonate	3.604	80	184431	64.518	ppm	100
8) N-Nitrosodiethylamine	3.913	102	241988	77.889	ppm	100
9) Ethyl Mathanesulfonate	4.143	79	293988	75.211	ppm	100
10) Benzaldehyde	4.437	106	280766	75.842	ppm	100
11) Aniline	4.522	93	772593	79.262	ppm	100
13) Phenol	4.490	94	512841	77.388	ppm	100
14) bis(2-Clethyl)Ether	4.565	93	384680	78.017	ppm	100
15) Pentachloroethane	4.565	117	150814	77.496	ppm	100
16) 2-Chlorophenol	4.624	128	433317	79.595	ppm	100
17) 1,3-Diclbzene	4.757	146	462681	79.882	ppm	100
18) 1,4-Dichlorobenzene	4.821	146	473223	81.298	ppm	100
19) 1,2-Diclbzene	4.955	146	448504	81.021	ppm	100
20) Benzyl Alcohol	4.917	79	319477	76.113	ppm	100
21) 1-Methyl-2-pyrrolidinone	4.971	99	288337	84.505	ppm	100
22) 2,2'-oxybis(1-Chloropr...	5.030	45	349401	75.039	ppm	100
23) 2-Methylphenol	5.024	108	392020	80.421	ppm	100
24) 3+4-Methylphenol	5.158	108	420015	82.297	ppm	100
25) Acetophenone	5.158	105	559219	80.558	ppm	100
26) N-Nitroso-Di-n-propyla...	5.152	70	284349	80.193	ppm	100
27) N-Nitrosopyrrolidine	5.147	100	233738	85.841	ppm	100
28) N-Nitrosomorpholine	5.179	56	204469	76.850	ppm	100
29) o-Toluidine	5.190	106	673713	83.517	ppm	100
30) Hexachloroethane	5.254	117	173923	82.864	ppm	100
31) o,o,o-Triethylphosphor...	5.697	198	175005	77.331	ppm	100
32) Alpha-terpinol	5.991	121	150137	85.334	ppm	100
35) Nitrobenzene	5.318	77	394333	68.878	ppm	100
36) N-Nitrosopiperidine	5.457	42	201029	72.301	ppm	100
37) Isophorone	5.532	82	741721	76.179	ppm	100
38) 2-Nitrophenol	5.606	139	199016	67.756	ppm	100

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.644	107	411647	77.014	ppm	100
40) bis(-2-Chloroethoxy)Me...	5.729	93	448795	76.651	ppm	100
41) Benzoic Acid	5.740	105	163453	41.427	ppm	97
42) 2,4-Dichlorophenol	5.841	162	319957	76.069	ppm	100
43) a,a-Dimethylphenethyla...	5.986	58	810044m	75.837	ppm	
44) 1,2,4-Trichlorobenzene	5.911	180	340173	72.735	ppm	100
45) Naphthalene	5.991	128	1235286	77.838	ppm	100
46) 4-Chloroaniline	6.044	127	584020	75.252	ppm	100
47) 2,6-Dichlorophenol	6.050	162	342591	75.151	ppm	100
48) Hexachlorobutadiene	6.098	225	167823	65.358	ppm	100
49) Hexachloropropene	6.071	213	197293	64.319	ppm	100
50) 4-Chloro-3-methylphenol	6.514	107	321164	78.657	ppm	100
51) N-N-di-n-butylamine	6.354	84	250421	72.365	ppm	100
52) Caprolactam	6.397	113	133752	85.246	ppm	100
53) p-Phenylenediamine	6.397	80	16333	75.696	ppm	100
54) Safole	6.568	162	348097	77.493	ppm	100
55) 2-Methylnaphthalene	6.659	142	795849	78.605	ppm	100
56) 1-Methylnaphthalene	6.755	142	740009	78.149	ppm	100
58) Hexachlorocyclopentadiene	6.803	237	181900	64.838	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.819	216	315106	68.583	ppm	100
60) 1,2,3,4-Tetrachloroben...	7.097	216	305831	70.422	ppm	100
61) 2,4,6-Trichlorophenol	6.931	196	203855	70.946	ppm	100
62) 2,4,5-Trichlorophenol	6.974	196	211430	70.927	ppm	100
64) Isosafrole	7.075	104	133482	70.561	ppm	100
65) 1,1'-Biphenyl	7.113	154	946430	76.128	ppm	100
66) 2-Chloronaphthalene	7.134	162	694966	75.677	ppm	100
67) 2-Nitroaniline	7.235	65	161974	68.153	ppm	100
68) 1,4-Naphthoquinone	7.310	158	235266	80.673	ppm	100
69) m-Dinitrobenzene	7.449	168	100775	59.258	ppm	100
70) Acenaphthylene	7.540	152	1153471	79.004	ppm	100
71) Dimethyl phthalate	7.412	163	751584	74.193	ppm	100
72) 2,6-Dinitrotoluene	7.470	165	165434	72.934	ppm	100
73) Acenaphthene	7.711	153	791013	79.309	ppm	100
74) 3-Nitroaniline	7.641	138	192048	70.204	ppm	100
75) 2,4-Dinitrophenol	7.743	184	43500	40.258	ppm	100
76) Dibenzofuran	7.882	168	958733	74.780	ppm	100
77) 2,4-Dinitrotoluene	7.871	165	208131	64.041	ppm	100
78) 4-Nitrophenol	7.823	65	113667	61.053	ppm	100
79) Pentachlorobenzene	7.839	250	281053	65.222	ppm	100
80) 1-Naphthylamine	7.962	143	484558	73.786	ppm	100
81) 2-Naphthylamine	8.042	143	671075	75.957	ppm	100
82) 2,3,4,6-Tetrachlorophenol	8.005	232	140047	60.650	ppm	100
83) Fluorene	8.218	166	801614	75.726	ppm	100
84) 4-Chlorophenyl-phenyle...	8.213	204	322506	70.873	ppm	100
85) Diethylphthalate	8.101	149	767293	71.702	ppm	100
86) 4-Nitroaniline	8.250	138	225187	75.224	ppm	100
87) 5-Nitro-o-toluidine	8.240	152	224974	71.653	ppm	100
89) Sulfotepp	8.485	322	135048	56.952	ppm	100
90) Octachlorocyclopentene	8.469	307	116526	55.955	ppm	100
92) Thionazin	8.186	107	130121	84.980	ppm	100
93) 4,6-Dinitro-2-methylph...	8.272	198	94496	52.782	ppm	100
94) Diphenylamine	8.336	169	1150908	156.843	ppm	100
95) 1,2 Diphenylhydrazine	8.373	77	680846	76.897	ppm	100
96) N-Nitrosodiphenylamine	8.336	169	1151275	156.893	ppm	100
97) 1,3,5-Trinitrobenzene	8.608	74	86923	56.401	ppm	100
98) Diallate	8.613	86	261545	73.025	ppm	100

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

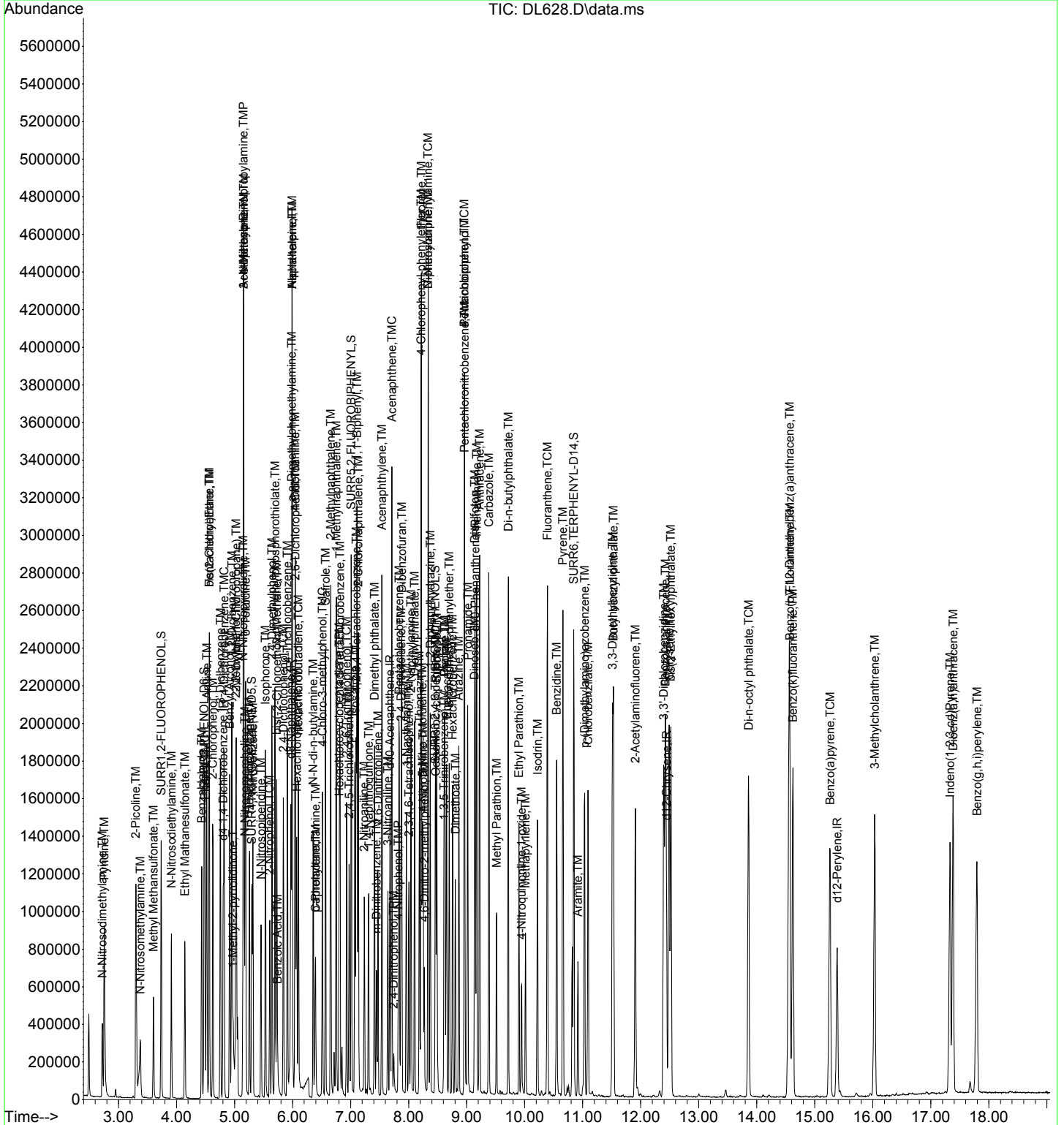
Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.624	121	139626	81.752	ppm	100
100) Phenacetin	8.656	108	410015	81.384	ppm	100
101) 4-Bromophenyl-phenylether	8.699	248	177772	65.961	ppm	100
102) Hexachlorobenzene	8.758	284	223661	63.420	ppm	100
103) Dimethoate	8.806	87	216454	68.891	ppm	100
104) Atrazine	8.864	215	113887	74.971	ppm	100
105) Pentachlorophenol	8.961	266	78737	37.117	ppm	100
106) 4-Aminobiphenyl	8.961	169	804620	82.341	ppm	100
107) Pentachloronitrobenzene	8.966	237	71364	66.047	ppm	100
108) Pronamide	9.019	173	333103	81.790	ppm	100
109) Dinoseb	9.137	211	126521	48.819	ppm	100
110) Disulfoton	9.142	88	256667	74.504	ppm	100
111) Phenanthrene	9.174	178	1043155	78.316	ppm	100
112) Anthracene	9.222	178	1066846	80.203	ppm	100
113) Carbazole	9.383	167	1112665	81.898	ppm	100
114) Di-n-butylphthalate	9.719	149	1373645	82.200	ppm	100
115) 4-Nitroquinonline-1-oxide	9.949	190	73459	61.467	ppm	100
116) Fluoranthene	10.392	202	1116412	82.180	ppm	100
118) Methyl Parathion	9.516	109	168603	71.306	ppm	100
119) Ethyl Parathion	9.901	97	128207	72.983	ppm	100
120) Methapyrilene	10.013	58	208457	64.888	ppm	100
121) Isodrin	10.221	193	107673	85.953	ppm	100
122) Benzidine	10.552	184	783446	87.362	ppm	100
123) Pyrene	10.659	202	1155936	89.586	ppm	100
125) Aramite	10.915	185	145793m	96.149	ppm	
126) p-(Dimethylamino)azobe...	11.033	120	373775	93.909	ppm	100
127) Chlorobenzilate	11.092	139	341372	88.192	ppm	100
128) Butyl benzyl phthalate	11.530	149	626432	86.584	ppm	100
129) 3,3-Dimethylbenzidine	11.514	212	832381	81.868	ppm	100
130) 2-Acetylaminofluorene	11.909	181	491036	90.586	ppm	100
131) 3,3'-Dichlorobenzidine	12.395	252	521387	76.575	ppm	100
132) Benzo(a)anthracene	12.422	228	1068699	78.898	ppm	100
133) Chrysene	12.491	228	993504	79.090	ppm	100
134) bis(2-Ethylhexyl)phtha...	12.518	149	864721	86.252	ppm	100
136) Di-n-octyl phthalate	13.858	149	1472193	88.006	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.563	256	530519	77.442	ppm	100
138) Benzo(b)Fluoranthene	14.569	252	1122902	79.630	ppm	100
139) Benzo(k)fluoranthene	14.622	252	1064985	78.991	ppm	100
140) Benzo(a)pyrene	15.263	252	975392	81.030	ppm	100
141) 3-Methylcholanthrene	16.032	268	589066	82.352	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.330	276	910930	82.766	ppm	100
143) Dibenz(a,h)anthracene	17.384	278	999095	80.154	ppm	100
144) Benzo(g,h,i)perylene	17.795	276	882192	91.118	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

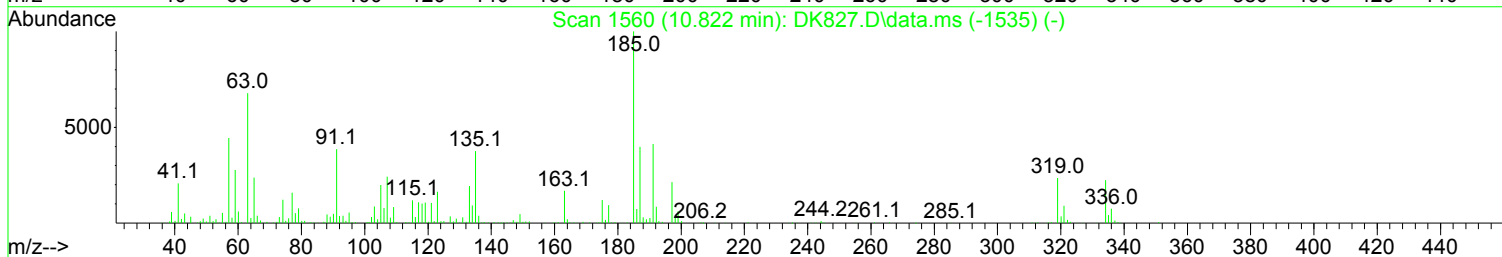
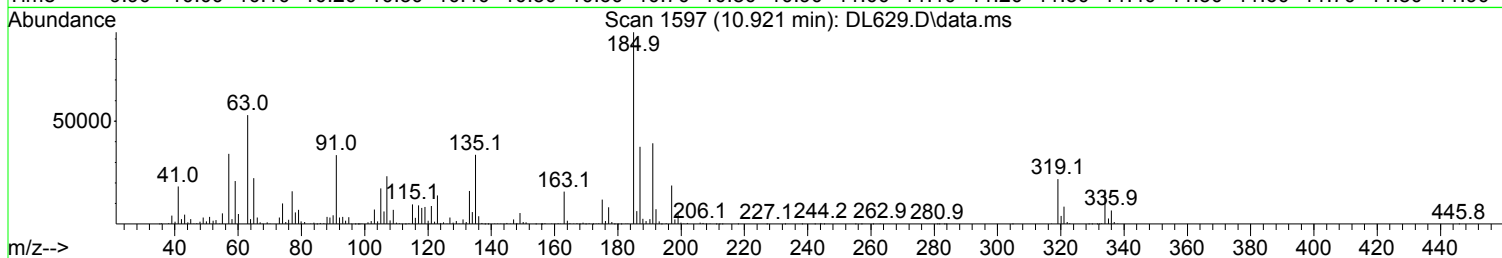
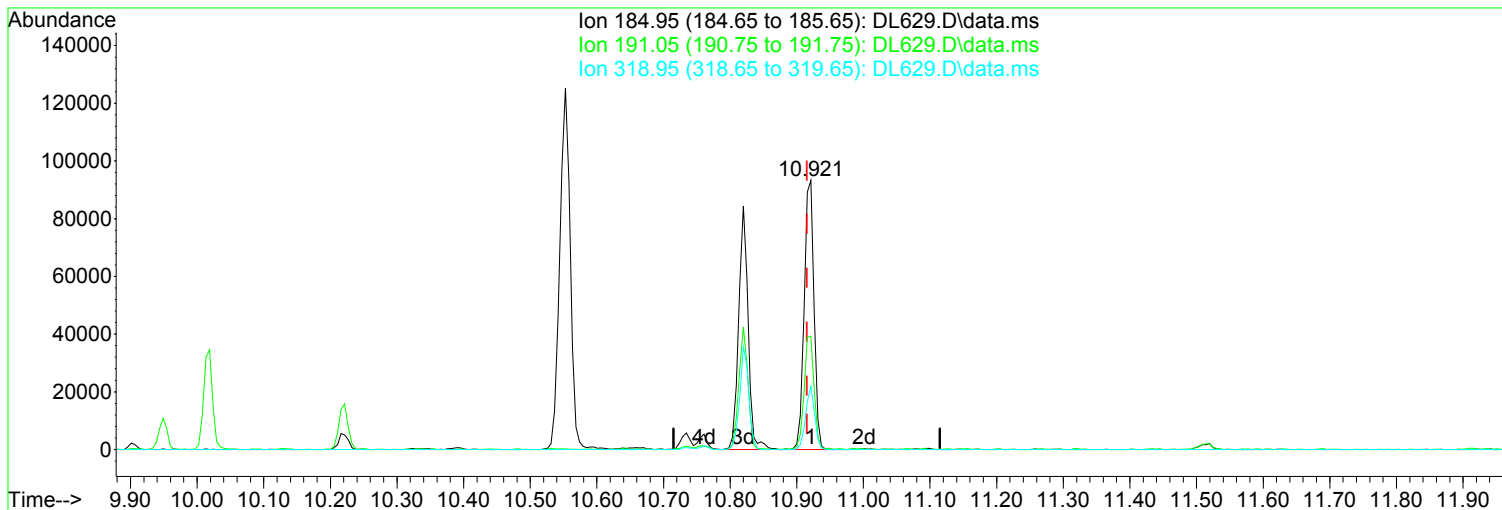
Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.921min (+ 0.006) 118.30 ppm m

After

response 179884

Split Peak.

Ion Exp% Act%

01/24/18

184.95 100.00 100.00

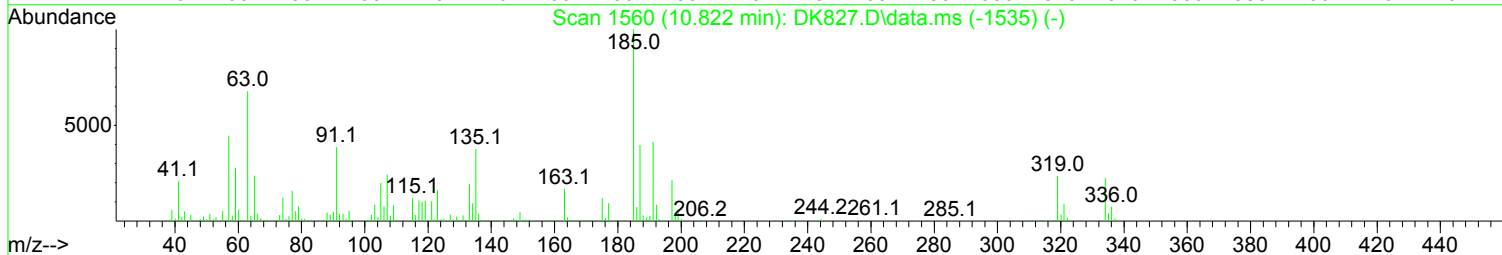
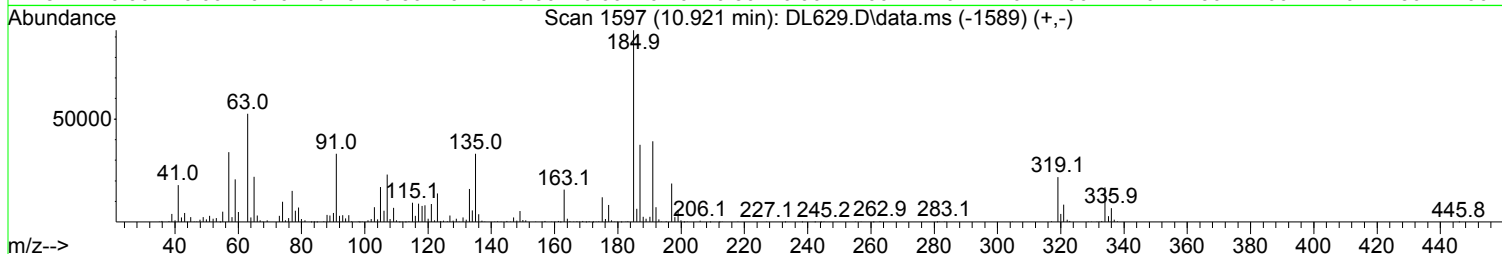
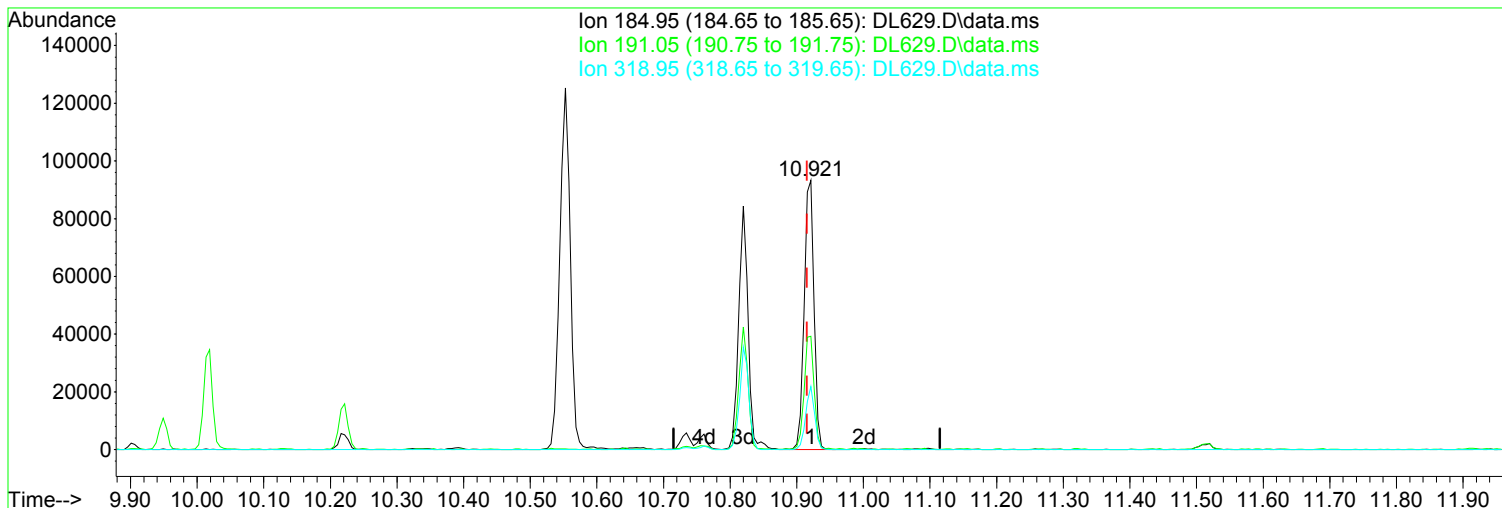
191.05 44.70 42.16

318.95 19.40 23.45

0.00 0.00 0.00

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.921min (+ 0.006) 63.22 ppm

Before

response 96137

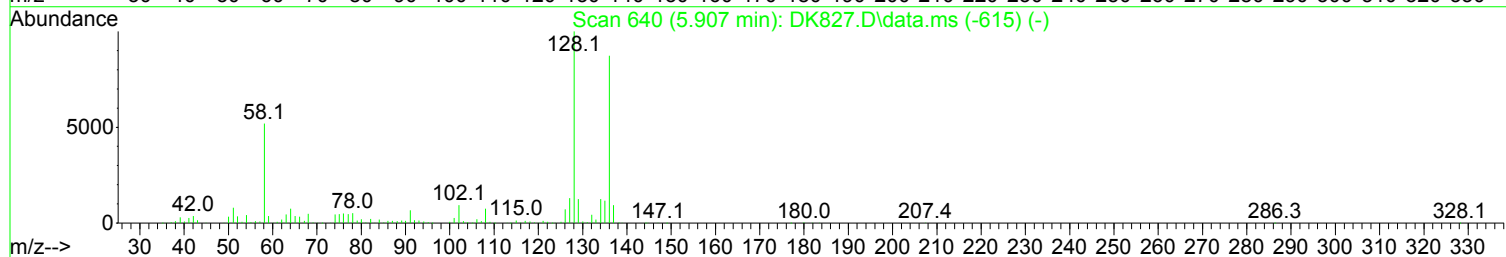
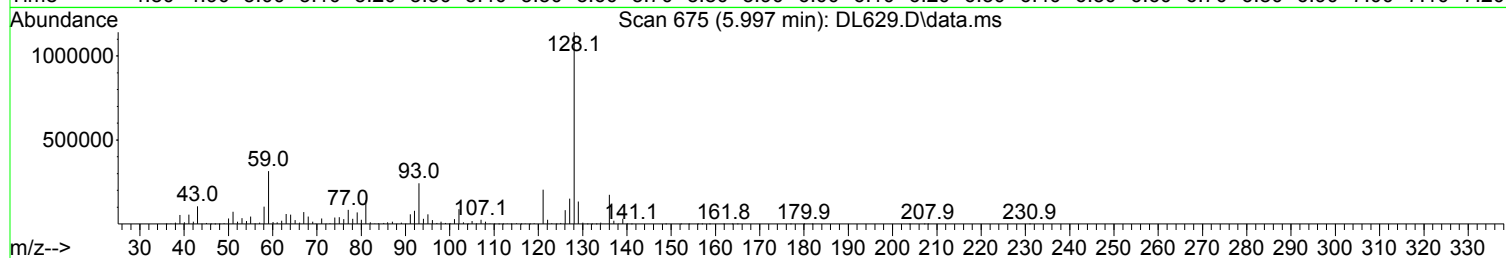
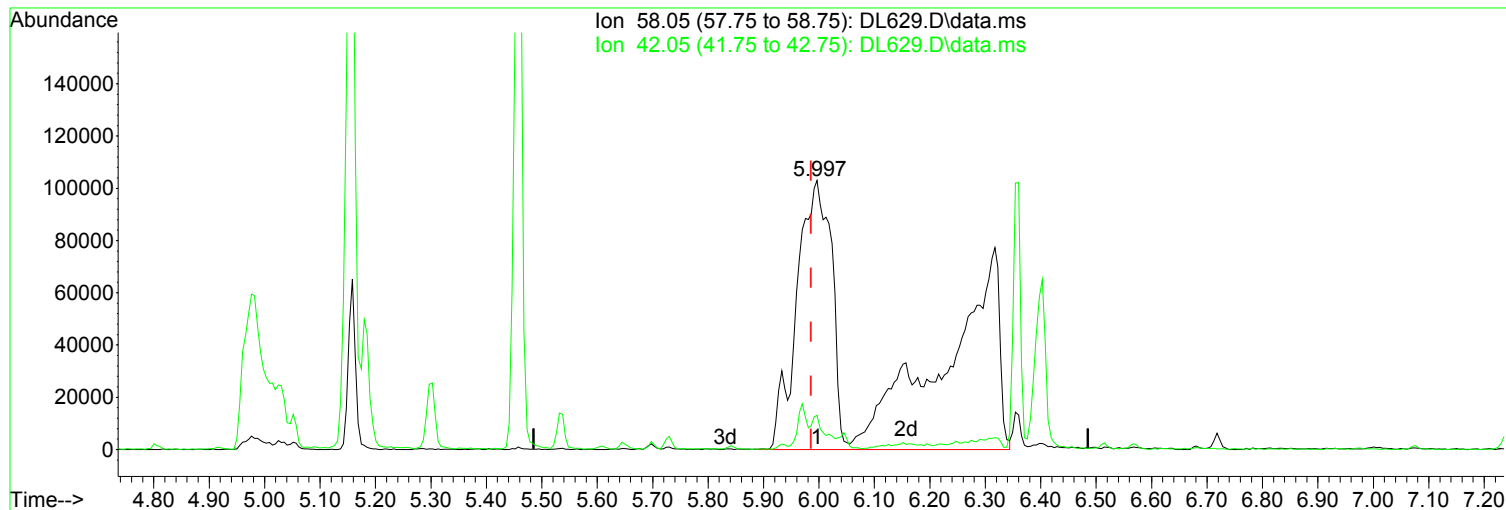
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	42.04
318.95	19.40	23.45
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.997min (+ 0.011) 93.65 ppm m

After

response 975404

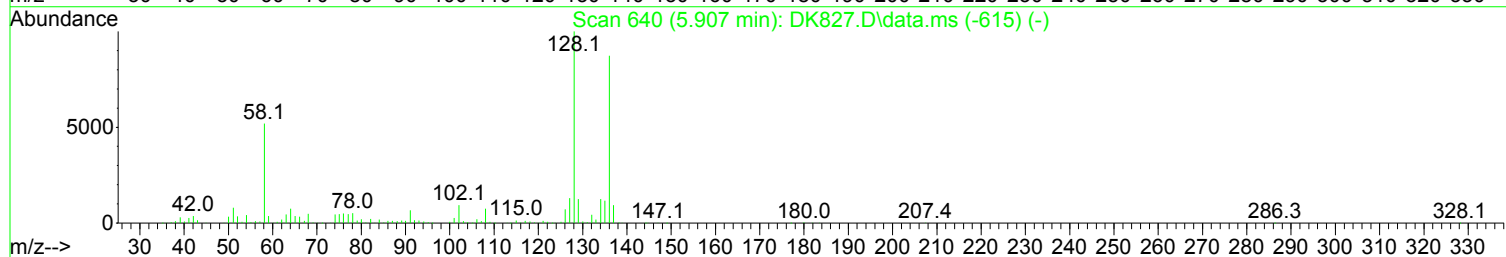
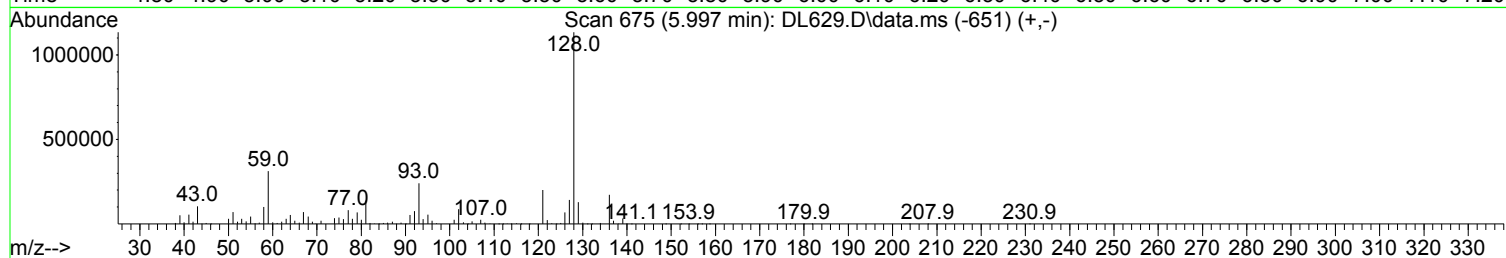
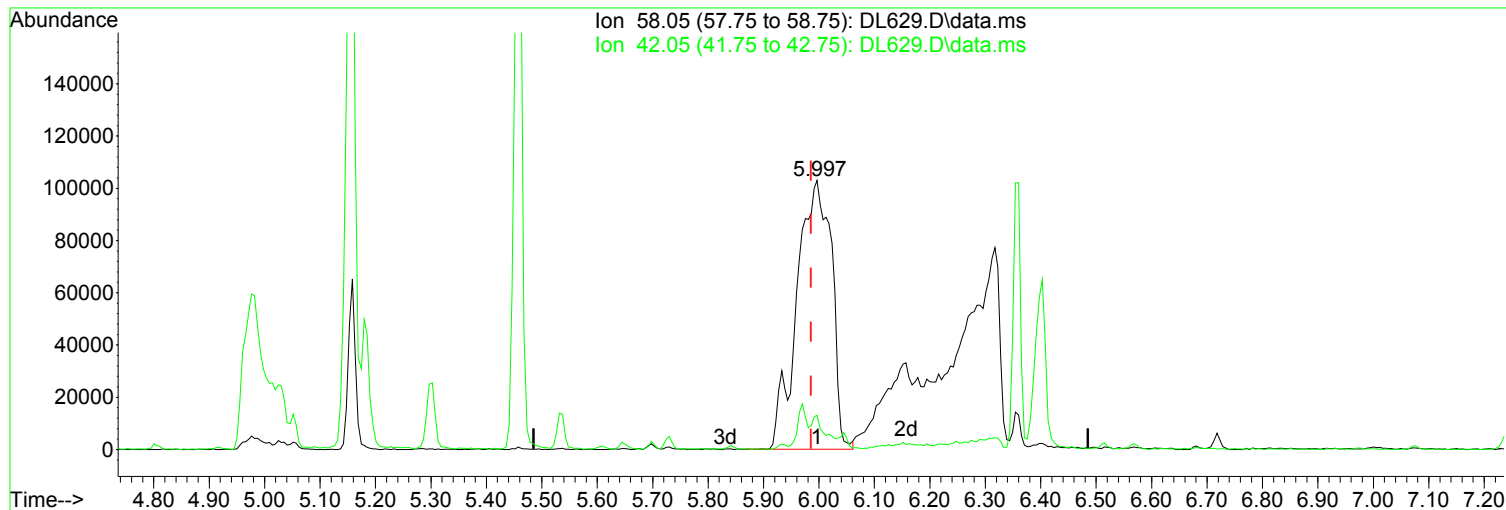
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	12.71
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.997min (+ 0.011) 42.88 ppm

Before

response 446586

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	12.50
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL629.D  
 Acq On : 23 Jan 2018 2:44 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.806	152	163567	40.00	ppm	0.00	
33) d8-Naphthalene	5.970	136	612983	40.00	ppm	0.00	
57) d10-Acenaphthene	7.679	164	290624	40.00	ppm	0.00	
91) d10-Phenanthrene	9.148	188	507909	40.00	ppm	0.00	
117) d12-Chrysene	12.443	240	478329	40.00	ppm	0.00	
135) d12-Perylene	15.386	264	472525	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.737	112	529363	92.80	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	46.40%	
12) SURR2,PHENOL-D6	4.480	99	669888	98.08	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	49.04%	
34) SURR4,NITROBENZENE-D5	5.302	82	481777	87.11	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	87.11%	
63) SURR5,2-FLUOROBIPHENYL	7.011	172	1029649	94.71	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	94.71%	
88) SURR3,2,4,6-TRIBROMOPH...	8.459	330	143600	64.43	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	32.22%	
124) SURR6,TERPHENYL-D14	10.846	244	1032176	98.39	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	98.39%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.755	79	537453	95.247	ppm		98
3) N-Nitrosodimethylamine	2.723	74	274422	95.772	ppm		100
4) 2-Picoline	3.299	93	566979	93.866	ppm		98
5) N-Nitrosomethylamine	3.374	42	194594	87.986	ppm		97
6) Methyl Methansulfonate	3.604	80	226797	78.749	ppm		99
8) N-Nitrosodiethylamine	3.914	102	297116	94.923	ppm		97
9) Ethyl Mathanesulfonate	4.149	79	361385	91.766	ppm		96
10) Benzaldehyde	4.437	106	335220	89.879	ppm		98
11) Aniline	4.523	93	951461	96.887	ppm		79
13) Phenol	4.490	94	655367	98.160	ppm		90
14) bis(2-Clethyl)Ether	4.565	93	473949	95.407	ppm		98
15) Pentachloroethane	4.565	117	186761	95.255	ppm		99
16) 2-Chlorophenol	4.629	128	537879	98.068	ppm		98
17) 1,3-Diclbzene	4.758	146	566652	97.106	ppm		97
18) 1,4-Dichlorobenzene	4.822	146	586958	100.088	ppm		99
19) 1,2-Diclbzene	4.955	146	554880	99.492	ppm		99
20) Benzyl Alcohol	4.918	79	390710	92.392	ppm		99
21) 1-Methyl-2-pyrrolidinone	4.977	99	353033	102.697	ppm		98
22) 2,2'-oxybis(1-Chloropr...	5.030	45	425192	90.638	ppm		98
23) 2-Methylphenol	5.030	108	485807	98.921	ppm		94
24) 3+4-Methylphenol	5.163	108	519296	100.994	ppm		96
25) Acetophenone	5.158	105	686213	98.118	ppm		95
26) N-Nitroso-Di-n-propyla...	5.158	70	346097	96.882	ppm		94
27) N-Nitrosopyrrolidine	5.153	100	284819	103.823	ppm		79
28) N-Nitrosomorpholine	5.180	56	249157	92.951	ppm		97
29) o-Toluidine	5.190	106	833432	102.550	ppm		89
30) Hexachloroethane	5.260	117	209847	99.237	ppm		86
31) o,o,o-Triethylphosphor...	5.698	198	218712	95.926	ppm		99
32) Alpha-terpinol	5.997	121	186291	105.096	ppm		95
35) Nitrobenzene	5.318	77	487995	87.411	ppm		100
36) N-Nitrosopiperidine	5.457	42	239717	88.412	ppm		97
37) Isophorone	5.537	82	912184	96.074	ppm		98
38) 2-Nitrophenol	5.607	139	257082	89.757	ppm		98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL629.D  
 Acq On : 23 Jan 2018 2:44 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.650	107	497540	95.457	ppm	95
40) bis(-2-Chloroethoxy)Me...	5.730	93	547169	95.835	ppm	99
41) Benzoic Acid	5.751	105	231310	60.120	ppm	97
42) 2,4-Dichlorophenol	5.842	162	405537	98.874	ppm	96
43) a,a-Dimethylphenethyla...	5.997	58	975404m	93.646	ppm	
44) 1,2,4-Trichlorobenzene	5.911	180	418626	91.791	ppm	100
45) Naphthalene	5.991	128	1491253	96.362	ppm	99
46) 4-Chloroaniline	6.045	127	727528	96.133	ppm	99
47) 2,6-Dichlorophenol	6.055	162	422550	95.054	ppm	93
48) Hexachlorobutadiene	6.104	225	206102	82.312	ppm	98
49) Hexachloropropene	6.071	213	248190	82.974	ppm	100
50) 4-Chloro-3-methylphenol	6.515	107	396668	99.625	ppm	95
51) N-N-di-n-butylamine	6.360	84	305913	90.654	ppm	98
52) Caprolactam	6.403	113	163756	107.029	ppm	95
53) p-Phenylenediamine	6.397	80	21331	101.379	ppm	90
54) Safrole	6.568	162	427871	97.681	ppm	99
55) 2-Methylnaphthalene	6.659	142	969998	98.248	ppm	98
56) 1-Methylnaphthalene	6.755	142	916769	99.284	ppm	99
58) Hexachlorocyclopentadiene	6.803	237	224064	82.399	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.819	216	388902	87.328	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.097	216	377931	89.783	ppm	98
61) 2,4,6-Trichlorophenol	6.937	196	256697	92.169	ppm	98
62) 2,4,5-Trichlorophenol	6.979	196	260680	90.220	ppm	97
64) Isosafrole	7.076	104	163232	89.023	ppm	# 27
65) 1,1'-Biphenyl	7.113	154	1158791	96.164	ppm	97
66) 2-Chloronaphthalene	7.134	162	860187	96.638	ppm	99
67) 2-Nitroaniline	7.241	65	199213	86.479	ppm	93
68) 1,4-Naphthoquinone	7.311	158	277724	98.251	ppm	83
69) m-Dinitrobenzene	7.449	168	135623	82.277	ppm	95
70) Acenaphthylene	7.540	152	1397743	98.770	ppm	99
71) Dimethyl phthalate	7.412	163	926541	94.363	ppm	100
72) 2,6-Dinitrotoluene	7.476	165	208813	94.976	ppm	79
73) Acenaphthene	7.711	153	972871	100.635	ppm	94
74) 3-Nitroaniline	7.642	138	249552	94.117	ppm	97
75) 2,4-Dinitrophenol	7.749	184	60927	54.447	ppm	85
76) Dibenzofuran	7.882	168	1183620	95.247	ppm	98
77) 2,4-Dinitrotoluene	7.871	165	275587	87.485	ppm	98
78) 4-Nitrophenol	7.829	65	146633	81.257	ppm	93
79) Pentachlorobenzene	7.839	250	341253	81.702	ppm	98
80) 1-Naphthylamine	7.962	143	593194	93.192	ppm	100
81) 2-Naphthylamine	8.042	143	812873	94.923	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.005	232	176514	78.866	ppm	97
83) Fluorene	8.219	166	961714	93.731	ppm	95
84) 4-Chlorophenyl-phenyle...	8.219	204	383777	87.011	ppm	95
85) Diethylphthalate	8.106	149	953778	91.954	ppm	97
86) 4-Nitroaniline	8.256	138	279586	96.356	ppm	99
87) 5-Nitro-o-toluidine	8.240	152	291826	95.892	ppm	95
89) Sulfotepp	8.486	322	169269	73.647	ppm	97
90) Octachlorocyclopentene	8.470	307	147539	73.093	ppm	98
92) Thionazin	8.187	107	155598	100.877	ppm	97
93) 4,6-Dinitro-2-methylph...	8.277	198	125398	69.532	ppm	96
94) Diphenylamine	8.341	169	1424716	192.740	ppm	100
95) 1,2 Diphenylhydrazine	8.373	77	831070	93.179	ppm	98
96) N-Nitrosodiphenylamine	8.341	169	1424716	192.740	ppm	100
97) 1,3,5-Trinitrobenzene	8.614	74	115505	74.400	ppm	83
98) Diallate	8.614	86	327311	90.721	ppm	99

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL629.D  
 Acq On : 23 Jan 2018 2:44 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

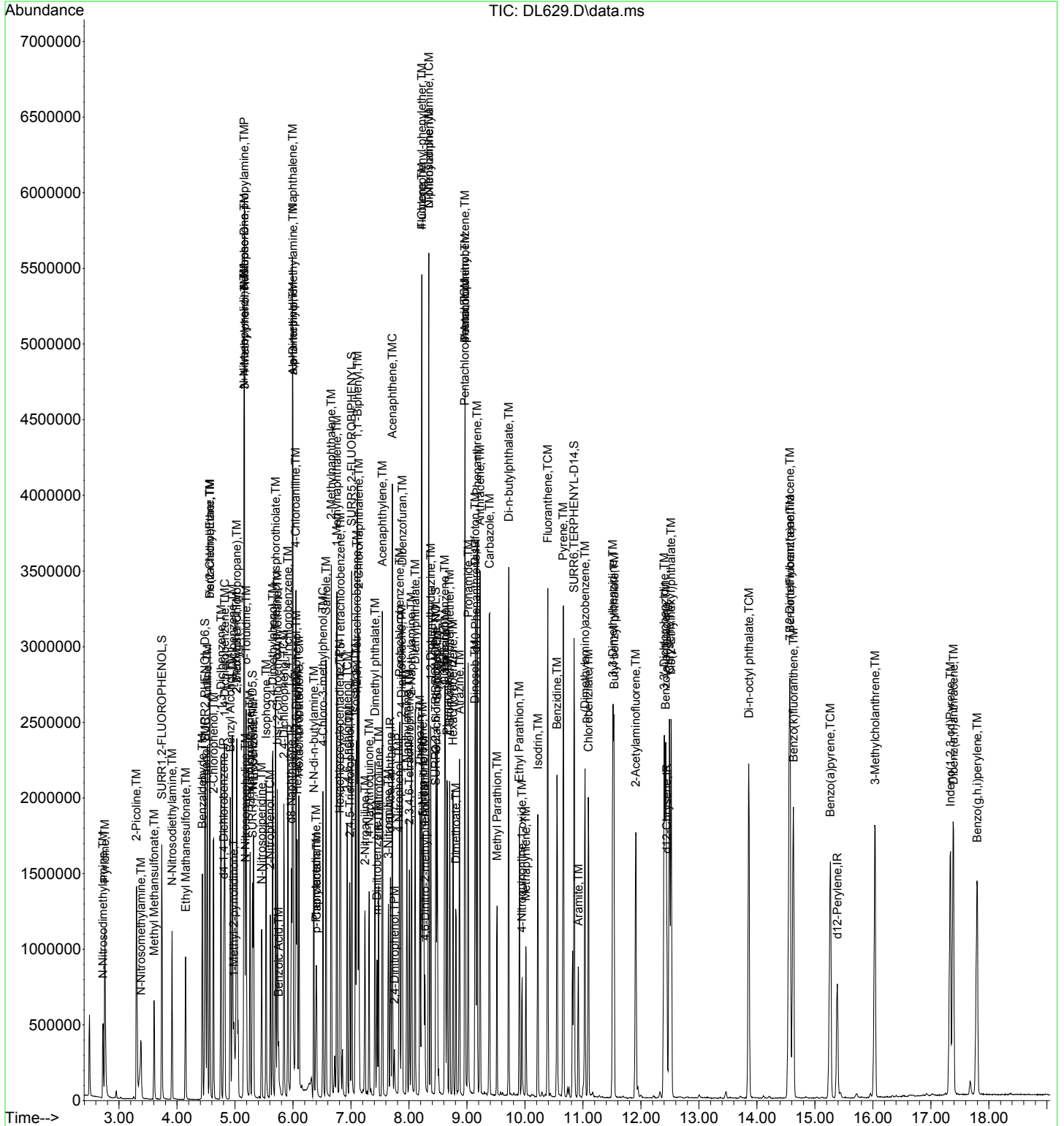
Quant Time: Jan 24 06:47:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.624	121	174106	101.196	ppm	87
100) Phenacetin	8.657	108	496868	97.903	ppm	97
101) 4-Bromophenyl-phenylether	8.699	248	221712	81.665	ppm	97
102) Hexachlorobenzene	8.758	284	272241	76.632	ppm	96
103) Dimethoate	8.806	87	256534	81.051	ppm	98
104) Atrazine	8.870	215	137857	90.088	ppm	96
105) Pentachlorophenol	8.961	266	106544	49.859	ppm	97
106) 4-Aminobiphenyl	8.966	169	996735	101.257	ppm	99
107) Pentachloronitrobenzene	8.966	237	87898	80.755	ppm	96
108) Pronamide	9.020	173	416015	101.403	ppm	99
109) Dinoseb	9.137	211	165949	63.565	ppm	97
110) Disulfoton	9.143	88	313778	90.418	ppm	97
111) Phenanthrene	9.175	178	1295833	96.577	ppm	99
112) Anthracene	9.223	178	1312804	97.973	ppm	99
113) Carbazole	9.388	167	1378628	100.733	ppm	100
114) Di-n-butylphthalate	9.719	149	1705346	101.305	ppm	99
115) 4-Nitroquinonline-1-oxide	9.949	190	90964	75.560	ppm	95
116) Fluoranthene	10.392	202	1389616	101.545	ppm	98
118) Methyl Parathion	9.516	109	202410	85.364	ppm	99
119) Ethyl Parathion	9.901	97	159827	90.727	ppm	98
120) Methapyrilene	10.013	58	246493	76.512	ppm	99
121) Isodrin	10.221	193	134517	107.080	ppm	98
122) Benzidine	10.553	184	954469	106.134	ppm	99
123) Pyrene	10.659	202	1442948	111.516	ppm	100
125) Aramite	10.921	185	179884m	118.298	ppm	
126) p-(Dimethylamino)azobe...	11.033	120	464045	116.261	ppm	98
127) Chlorobenzilate	11.092	139	427429	110.114	ppm	98
128) Butyl benzyl phthalate	11.535	149	769398	106.046	ppm	97
129) 3,3-Dimethylbenzidine	11.514	212	1007985	98.861	ppm	99
130) 2-Acetylaminofluorene	11.909	181	609987	112.213	ppm	99
131) 3,3'-Dichlorobenzidine	12.401	252	641574	93.961	ppm	99
132) Benzo(a)anthracene	12.422	228	1320525	97.215	ppm	99
133) Chrysene	12.491	228	1217237	96.628	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.518	149	1062396	105.671	ppm	99
136) Di-n-octyl phthalate	13.859	149	1823923	111.311	ppm	99
137) 7,12-Dimethylbenz(a)an...	14.564	256	654227	97.496	ppm	98
138) Benzo(b)Fluoranthene	14.569	252	1394953	100.990	ppm	98
139) Benzo(k)fluoranthene	14.628	252	1279473	96.883	ppm	99
140) Benzo(a)pyrene	15.263	252	1200921	101.851	ppm	99
141) 3-Methylcholanthrene	16.038	268	711658	101.569	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.336	276	1098205	101.867	ppm	100
143) Dibenz(a,h)anthracene	17.389	278	1217570	99.723	ppm	99
144) Benzo(g,h,i)perylene	17.800	276	1055924	116.723	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

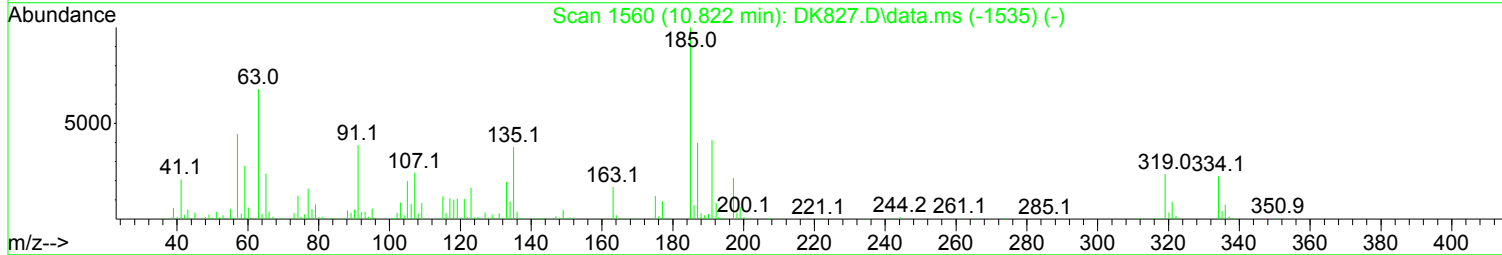
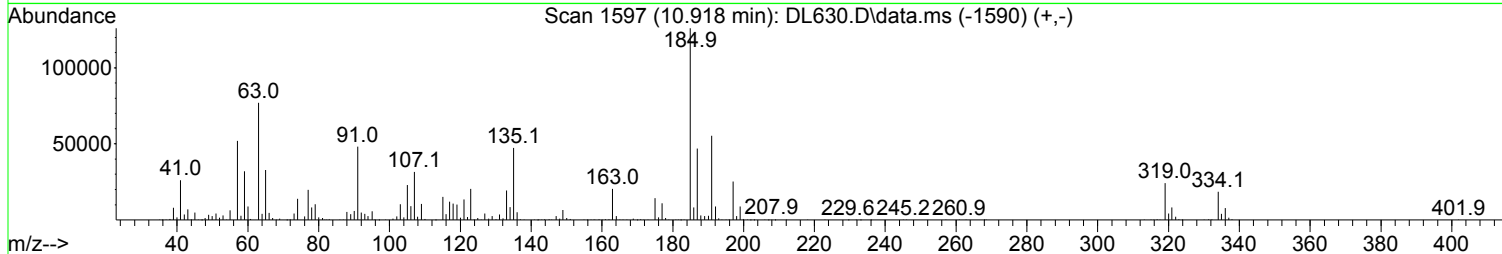
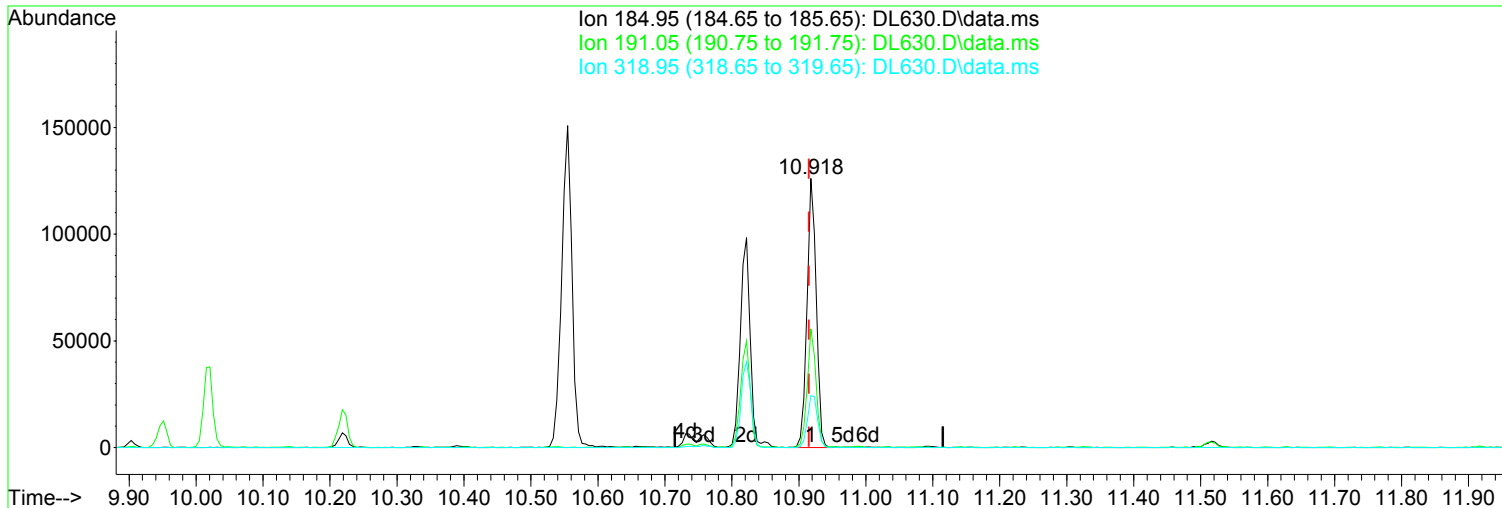
Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL630.D  
Acq On : 23 Jan 2018 3:13 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL630.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.918min (+ 0.002) 78.77 ppm

Before

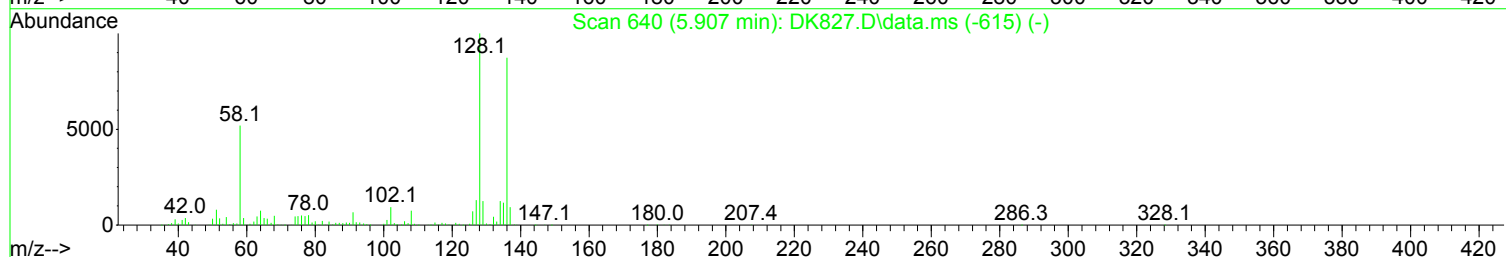
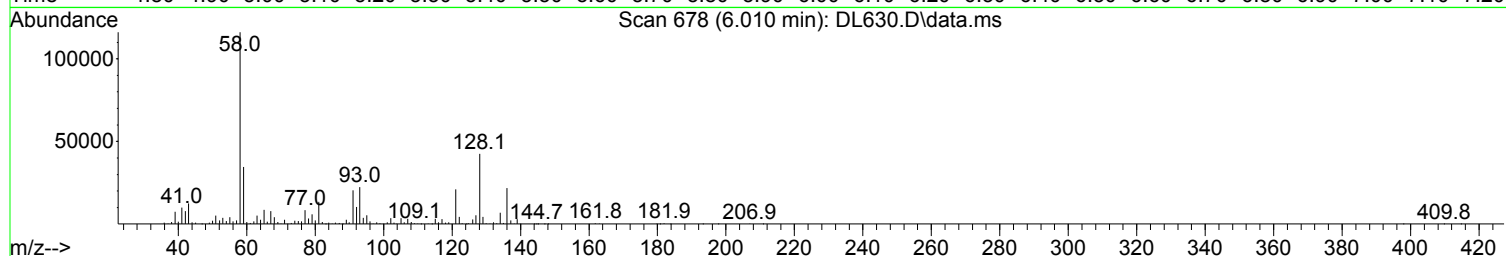
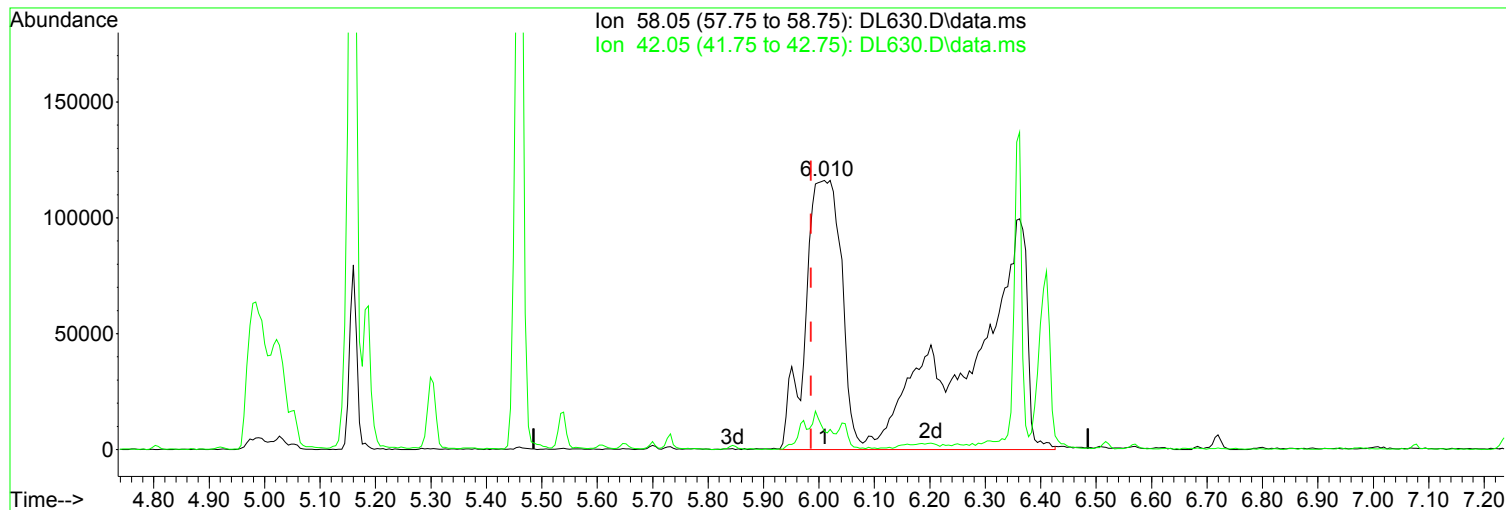
response 120273

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	43.92
318.95	19.40	19.28
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL630.D  
Acq On : 23 Jan 2018 3:13 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.024) 112.05 ppm m

After

response 1227256

Poor integration.

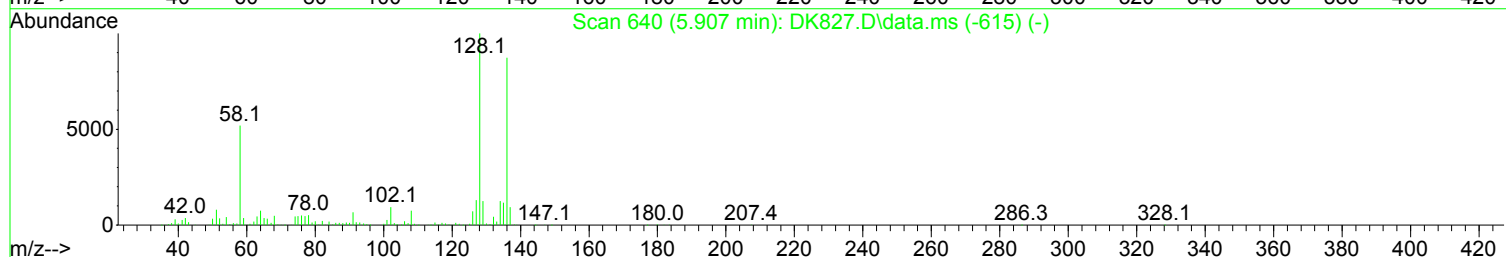
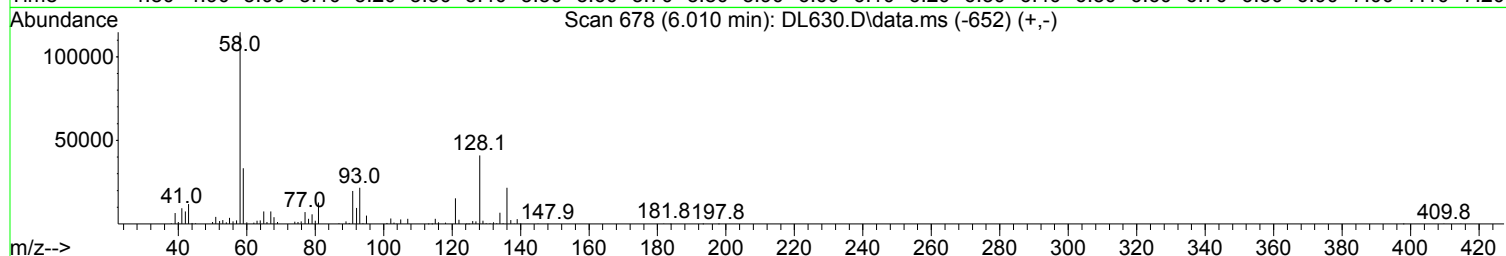
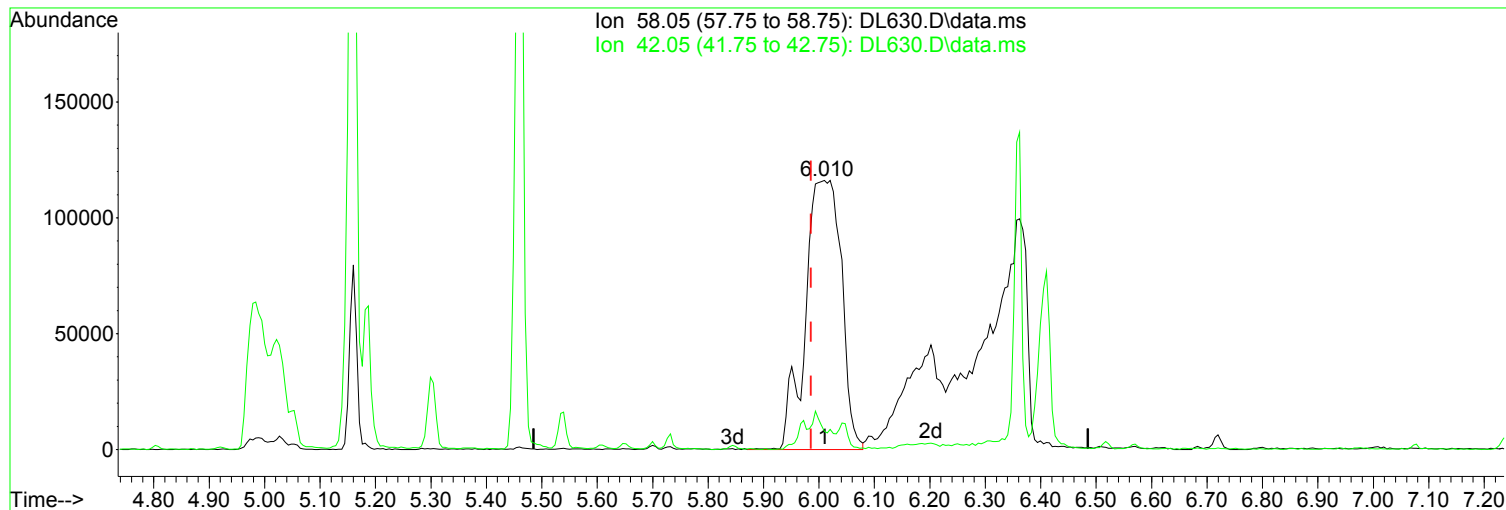
Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	6.82
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL630.D  
Acq On : 23 Jan 2018 3:13 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL630.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.024) 48.04 ppm

Before

response 526188

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	6.50
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.802	152	167515	40.00	ppm	0.00
33) d8-Naphthalene	5.972	136	644609	40.00	ppm	0.00
57) d10-Acenaphthene	7.676	164	305148	40.00	ppm	0.00
91) d10-Phenanthrene	9.150	188	515397	40.00	ppm	0.00
117) d12-Chrysene	12.445	240	480318	40.00	ppm	0.00
135) d12-Perylene	15.383	264	475892	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.740	112	655802	112.25	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	56.13%
12) SURR2,PHENOL-D6	4.477	99	827950	118.36	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	59.18%
34) SURR4,NITROBENZENE-D5	5.299	82	600495	103.25	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	103.25%
63) SURR5,2-FLUOROBIPHENYL	7.014	172	1267259	111.02	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	111.02%
88) SURR3,2,4,6-TRIBROMOPH...	8.461	330	179159	76.56	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	38.28%
124) SURR6,TERPHENYL-D14	10.849	244	1258979	119.51	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	119.51%

Target Compounds						Qvalue
2) Pyridine	2.757	79	667290	115.469	ppm	99
3) N-Nitrosodimethylamine	2.725	74	346028	117.916	ppm	97
4) 2-Picoline	3.302	93	706723	114.243	ppm	99
5) N-Nitrosomethylamine	3.376	42	245942	108.583	ppm	95
6) Methyl Methansulfonate	3.606	80	282038	95.622	ppm	99
8) N-Nitrosodiethylamine	3.916	102	369864	115.379	ppm	96
9) Ethyl Mathanesulfonate	4.145	79	444784	110.281	ppm	97
10) Benzaldehyde	4.434	106	406612	106.451	ppm	97
11) Aniline	4.525	93	1159728	115.311	ppm	99
13) Phenol	4.493	94	798242	116.742	ppm	99
14) bis(2-Clethyl)Ether	4.567	93	585856	115.155	ppm	97
15) Pentachloroethane	4.567	117	232743	115.909	ppm	94
16) 2-Chlorophenol	4.626	128	670542	119.374	ppm	97
17) 1,3-Diclbzene	4.754	146	701022	117.301	ppm	97
18) 1,4-Dichlorobenzene	4.818	146	716882	119.361	ppm	99
19) 1,2-Diclbzene	4.952	146	675643	118.291	ppm	98
20) Benzyl Alcohol	4.920	79	490021	113.146	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.984	99	437228	124.192	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.032	45	525648	109.411	ppm	98
23) 2-Methylphenol	5.027	108	599344	119.163	ppm	98
24) 3+4-Methylphenol	5.166	108	641387	121.799	ppm	93
25) Acetophenone	5.160	105	846367	118.166	ppm	95
26) N-Nitroso-Di-n-propyla...	5.160	70	422154	115.388	ppm	97
27) N-Nitrosopyrrolidine	5.155	100	352186	125.355	ppm	73
28) N-Nitrosomorpholine	5.182	56	310432	113.081	ppm	98
29) o-Toluidine	5.192	106	1023490	122.967	ppm	87
30) Hexachloroethane	5.256	117	261404	120.706	ppm	90
31) o,o,o-Triethylphosphor...	5.700	198	271758	116.383	ppm	99
32) Alpha-terpinol	5.993	121	225421	124.174	ppm	99
35) Nitrobenzene	5.321	77	612735	104.369	ppm	99
36) N-Nitrosopiperidine	5.459	42	301223	105.646	ppm	95
37) Isophorone	5.540	82	1111727	111.346	ppm	97
38) 2-Nitrophenol	5.609	139	327729	108.808	ppm	98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.652	107	623403	113.736	ppm	95
40) bis(-2-Chloroethoxy)Me...	5.732	93	662183	110.289	ppm	97
41) Benzoic Acid	5.758	105	311038	76.876	ppm	99
42) 2,4-Dichlorophenol	5.844	162	496798	115.181	ppm	97
43) a,a-Dimethylphenethyla...	6.010	58	1227256m	112.045	ppm	
44) 1,2,4-Trichlorobenzene	5.913	180	521707	108.781	ppm	99
45) Naphthalene	5.993	128	1816947	111.648	ppm	97
46) 4-Chloroaniline	6.047	127	899383	113.010	ppm	99
47) 2,6-Dichlorophenol	6.052	162	531913	113.785	ppm	97
48) Hexachlorobutadiene	6.100	225	257906	97.948	ppm	99
49) Hexachloropropene	6.074	213	305801	97.219	ppm	99
50) 4-Chloro-3-methylphenol	6.517	107	489084	116.809	ppm	98
51) N-N-di-n-butylamine	6.362	84	375859	105.917	ppm	97
52) Caprolactam	6.410	113	203004	126.171	ppm	91
53) p-Phenylenediamine	6.399	80	24702	111.641	ppm	# 75
54) Safrole	6.570	162	534569	116.052	ppm	98
55) 2-Methylnaphthalene	6.656	142	1209726	116.517	ppm	99
56) 1-Methylnaphthalene	6.757	142	1140922	117.497	ppm	98
58) Hexachlorocyclopentadiene	6.805	237	279161	97.774	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.821	216	481460	102.966	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.099	216	465363	105.292	ppm	99
61) 2,4,6-Trichlorophenol	6.934	196	316800	108.335	ppm	97
62) 2,4,5-Trichlorophenol	6.982	196	323214	106.539	ppm	97
64) Isosafrole	7.078	104	201453	104.639	ppm	# 19
65) 1,1'-Biphenyl	7.115	154	1432472	113.218	ppm	97
66) 2-Chloronaphthalene	7.136	162	1056096	113.000	ppm	98
67) 2-Nitroaniline	7.238	65	246339	101.847	ppm	96
68) 1,4-Naphthoquinone	7.313	158	332057	111.881	ppm	84
69) m-Dinitrobenzene	7.452	168	176467	101.960	ppm	96
70) Acenaphthylene	7.542	152	1750828	117.832	ppm	100
71) Dimethyl phthalate	7.414	163	1151543	111.697	ppm	100
72) 2,6-Dinitrotoluene	7.478	165	268581	116.347	ppm	89
73) Acenaphthene	7.713	153	1195101	117.739	ppm	96
74) 3-Nitroaniline	7.649	138	318680	114.467	ppm	95
75) 2,4-Dinitrophenol	7.751	184	84996	68.811	ppm	87
76) Dibenzofuran	7.884	168	1440999	110.439	ppm	97
77) 2,4-Dinitrotoluene	7.874	165	352149	106.469	ppm	99
78) 4-Nitrophenol	7.831	65	189770	100.156	ppm	98
79) Pentachlorobenzene	7.841	250	418424	95.410	ppm	98
80) 1-Napthylamine	7.964	143	738076	110.434	ppm	99
81) 2-Napthylamine	8.044	143	1012247	112.579	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.007	232	223301	95.022	ppm	95
83) Fluorene	8.221	166	1174108	108.985	ppm	98
84) 4-Chlorophenyl-phenyle...	8.215	204	465531	100.523	ppm	98
85) Diethylphthalate	8.109	149	1188077	109.091	ppm	98
86) 4-Nitroaniline	8.258	138	351133	115.254	ppm	97
87) 5-Nitro-o-toluidine	8.247	152	364307	114.011	ppm	99
89) Sulfotepp	8.488	322	206076	85.393	ppm	98
90) Octachlorocyclopentene	8.466	307	173858	82.032	ppm	99
92) Thionazin	8.189	107	201359	128.648	ppm	100
93) 4,6-Dinitro-2-methylph...	8.279	198	170525	93.181	ppm	96
94) Diphenylamine	8.344	169	1772813	236.347	ppm	100
95) 1,2 Diphenylhydrazine	8.376	77	1014744	112.120	ppm	98
96) N-Nitrosodiphenylamine	8.344	169	1772869	236.354	ppm	100
97) 1,3,5-Trinirobenzene	8.621	74	146466	92.972	ppm	# 1
98) Diallate	8.616	86	406210	110.954	ppm	87

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

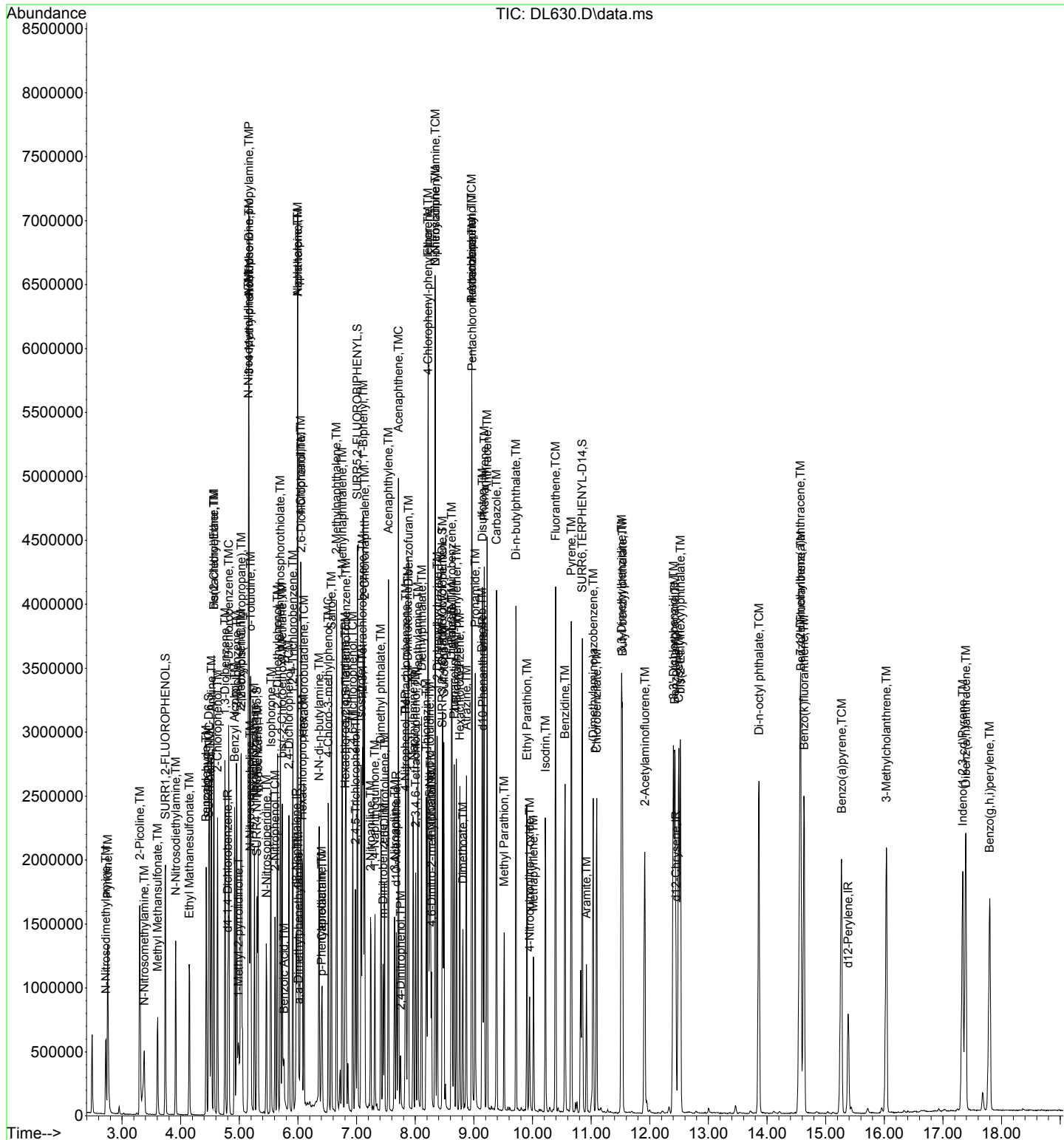
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 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.627	121	219696	125.840	ppm	87
100) Phenacetin	8.664	108	624001	121.167	ppm	100
101) 4-Bromophenyl-phenylether	8.701	248	275286	99.925	ppm	99
102) Hexachlorobenzene	8.760	284	344739	95.629	ppm	99
103) Dimethoate	8.814	87	291472	90.752	ppm	99
104) Atrazine	8.872	215	166532	107.246	ppm	98
105) Pentachlorophenol	8.963	266	158552	73.119	ppm	96
106) 4-Aminobiphenyl	8.963	169	1208401	120.976	ppm	99
107) Pentachloronitrobenzene	8.968	237	110942	100.446	ppm	98
108) Pronamide	9.022	173	525672	126.270	ppm	98
109) Dinoseb	9.139	211	225684	85.190	ppm	99
110) Disulfoton	9.145	88	403622	114.617	ppm	99
111) Phenanthrene	9.177	178	1628565	119.611	ppm	99
112) Anthracene	9.225	178	1634238	120.190	ppm	99
113) Carbazole	9.385	167	1693027	121.908	ppm	99
114) Di-n-butylphthalate	9.716	149	2075923	121.527	ppm	98
115) 4-Nitroquinonline-1-oxide	9.951	190	110956	90.827	ppm	99
116) Fluoranthene	10.395	202	1697072	122.210	ppm	99
118) Methyl Parathion	9.513	109	245866	103.261	ppm	91
119) Ethyl Parathion	9.903	97	208109	117.646	ppm	99
120) Methapyrilene	10.015	58	304850	94.234	ppm	99
121) Isodrin	10.218	193	166580	132.054	ppm	94
122) Benzidine	10.555	184	1137425	125.954	ppm	98
123) Pyrene	10.662	202	1751366	134.791	ppm	99
125) Aramite	10.918	185	222839m	145.940	ppm	
126) p-(Dimethylamino)azobe...	11.035	120	568247	141.778	ppm	99
127) Chlorobenzilate	11.094	139	531536	136.367	ppm	98
128) Butyl benzyl phthalate	11.532	149	955488	131.149	ppm	98
129) 3,3-Dimethylbenzidine	11.516	212	1229932	120.129	ppm	99
130) 2-Acetylaminofluorene	11.917	181	748151	137.060	ppm	99
131) 3,3'-Dichlorobenzidine	12.403	252	770688	112.403	ppm	99
132) Benzo(a)anthracene	12.424	228	1604475	117.630	ppm	98
133) Chrysene	12.494	228	1484843	117.383	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.520	149	1299742	128.744	ppm	98
136) Di-n-octyl phthalate	13.861	149	2262373	137.092	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.566	256	793830	117.463	ppm	97
138) Benzo(b)Fluoranthene	14.577	252	1681686	120.887	ppm	98
139) Benzo(k)fluoranthene	14.630	252	1569221	117.983	ppm	99
140) Benzo(a)pyrene	15.271	252	1465930	123.447	ppm	98
141) 3-Methylcholanthrene	16.035	268	877762	124.389	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.338	276	1342146	123.613	ppm	99
143) Dibenz(a,h)anthracene	17.391	278	1457245	118.508	ppm	99
144) Benzo(g,h,i)perylene	17.797	276	1254674	145.246	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

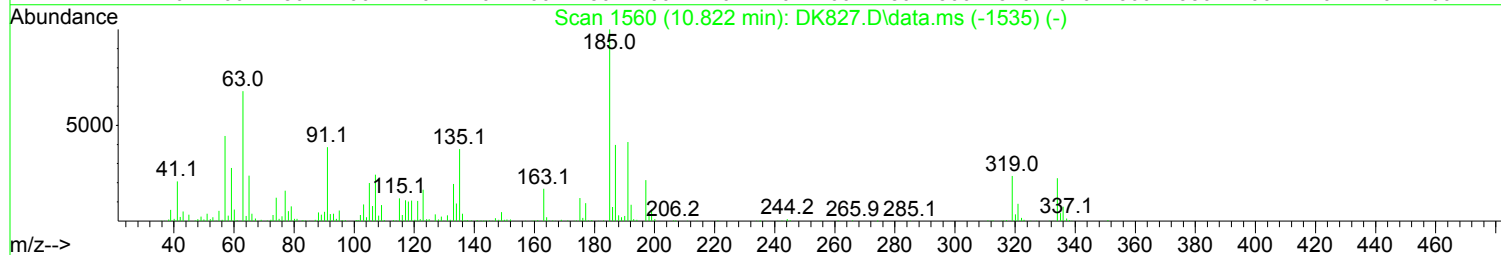
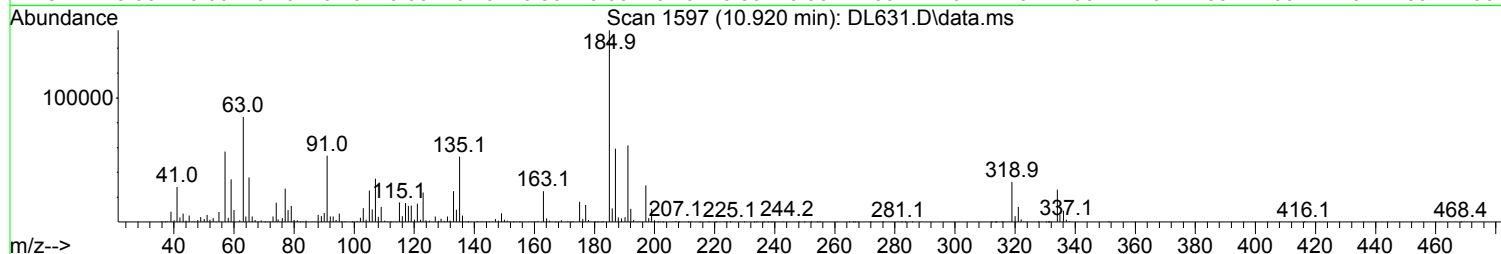
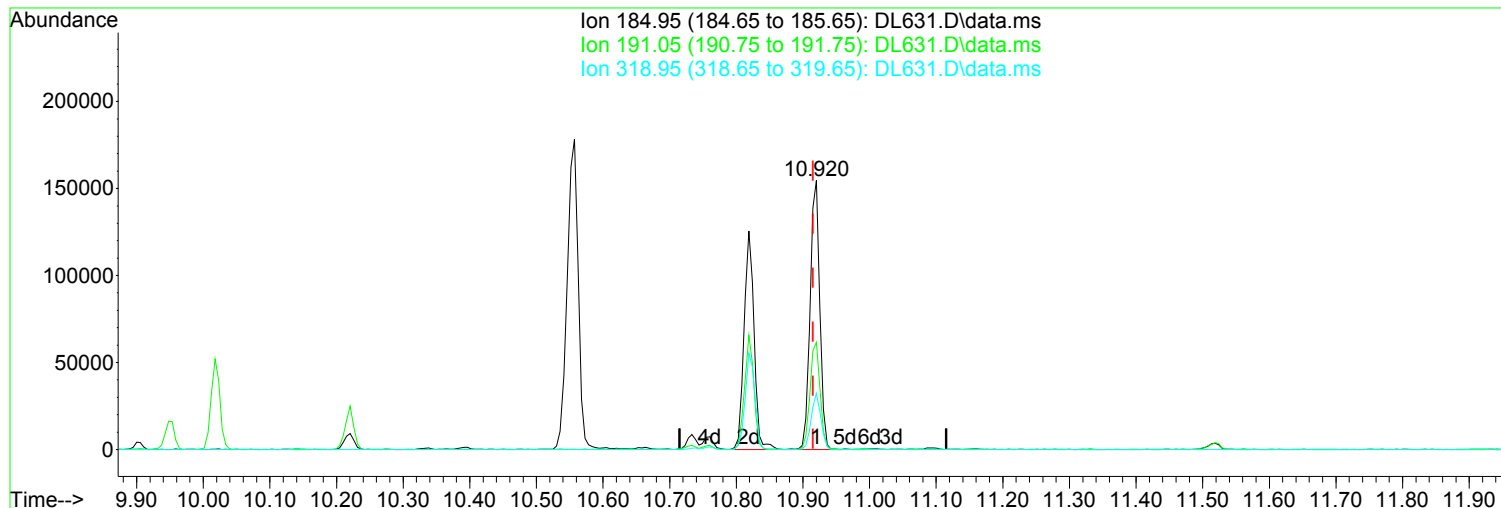
Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL630.D  
Acq On : 23 Jan 2018 3:13 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.920min (+ 0.005) 191.26 ppm m

After

response 289116

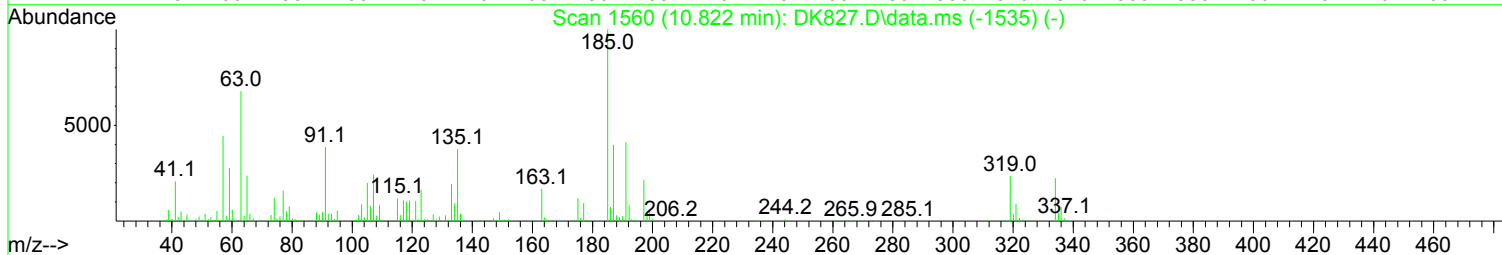
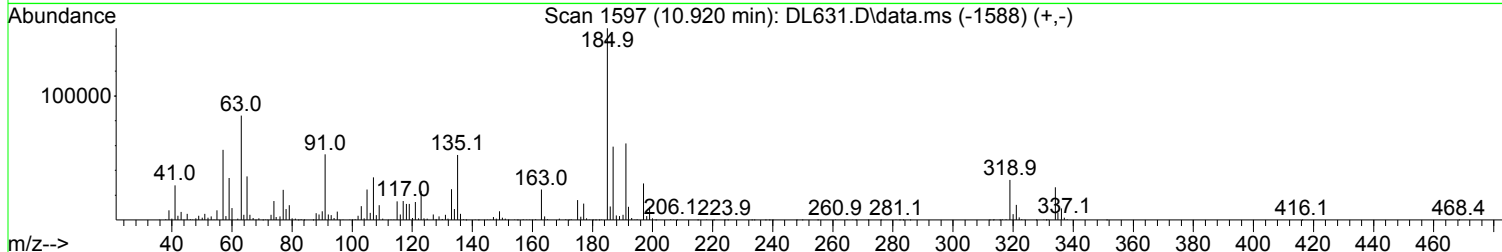
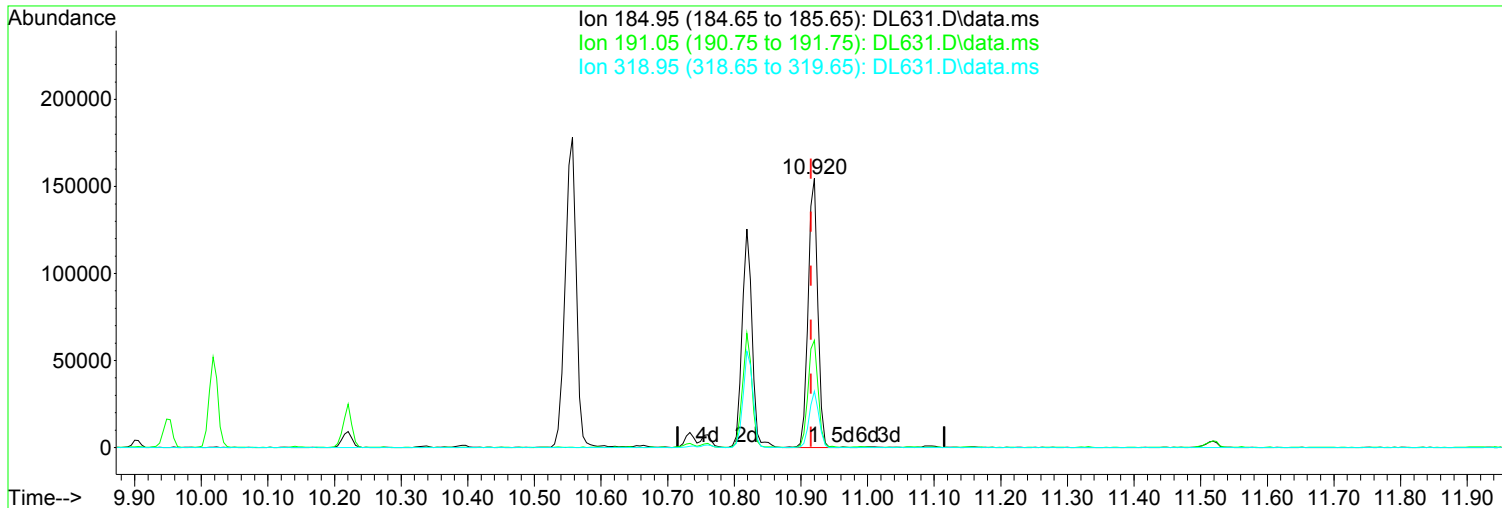
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	39.87
318.95	19.40	20.91
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL631.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.920min (+ 0.005) 103.57 ppm

Before

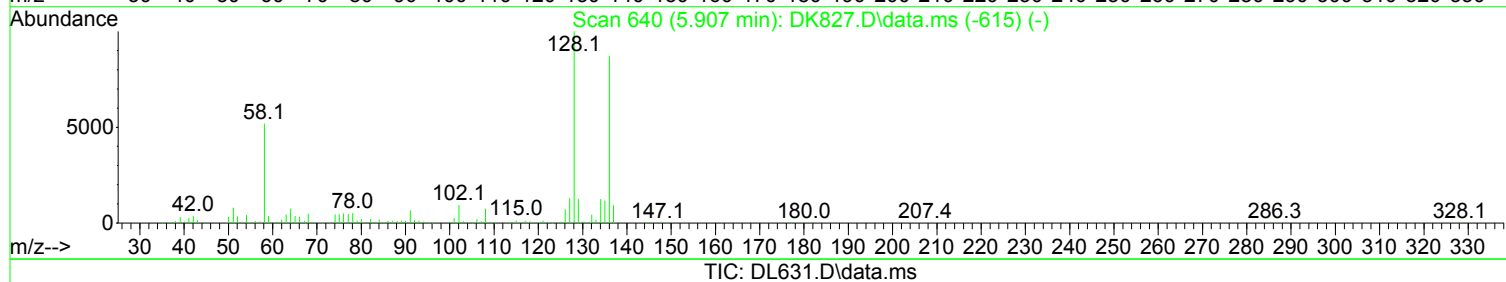
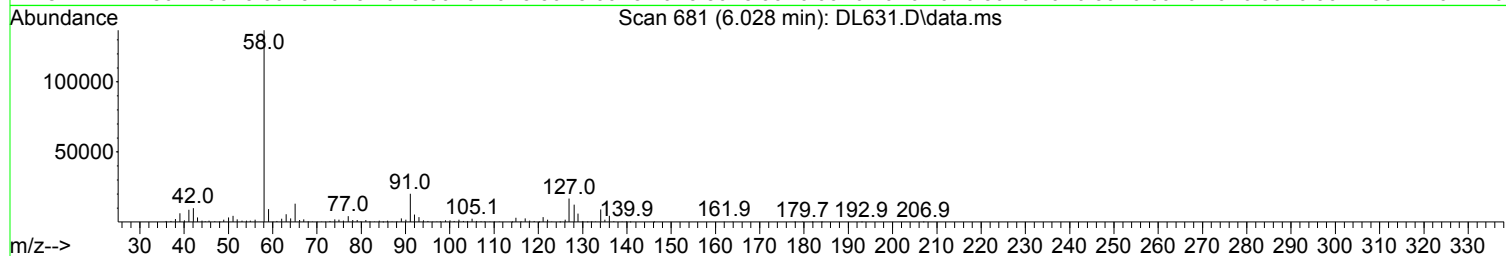
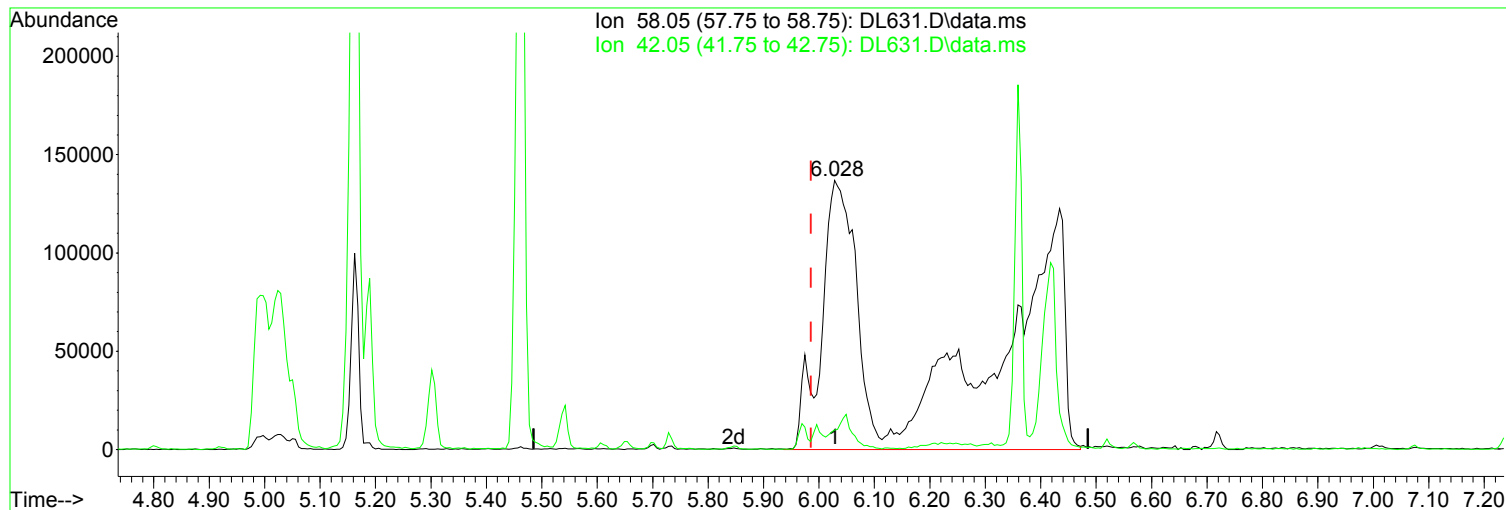
response 156554

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	39.71
318.95	19.40	20.91
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.028min (+ 0.042) 148.11 ppm m

After

response 1560638

Poor integration.

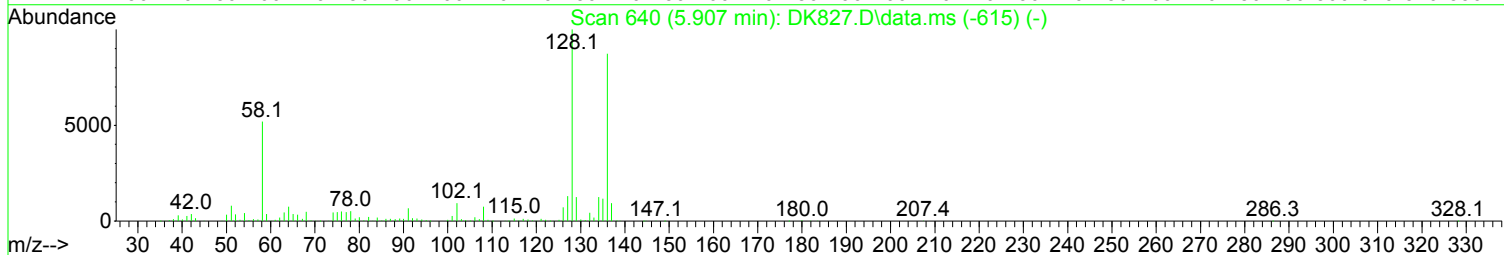
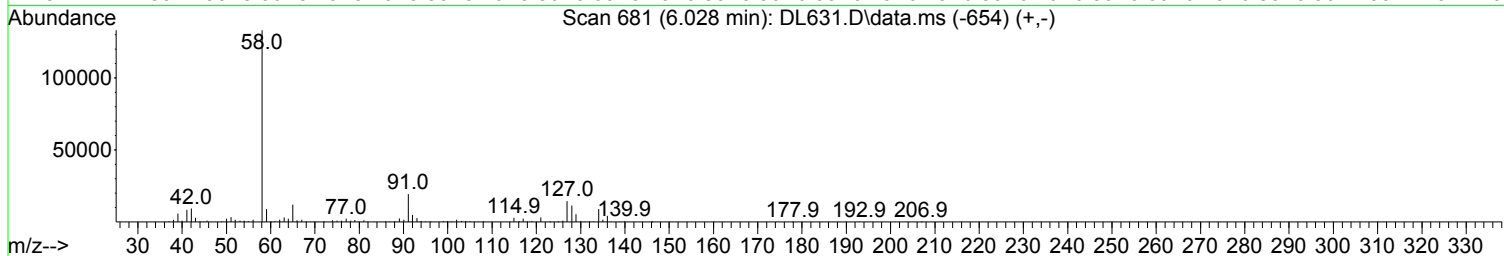
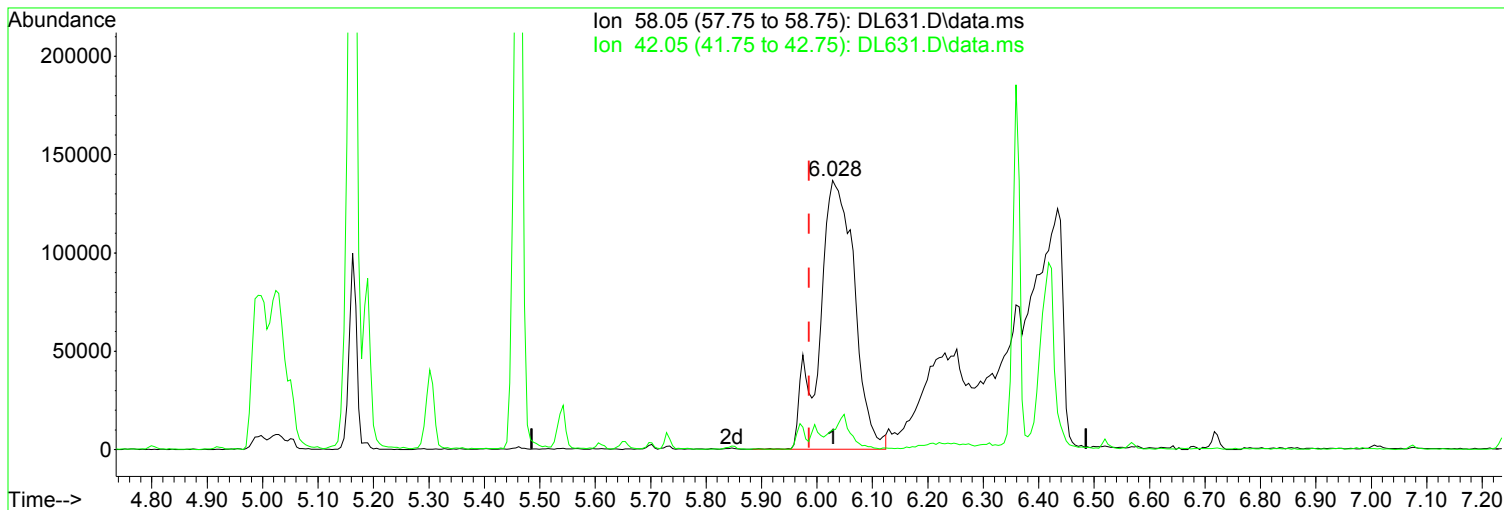
Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	7.20
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.028min (+ 0.042) 57.06 ppm

Before

response 601226

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	6.99
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	162870	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	620126	40.00	ppm	0.00
57) d10-Acenaphthene	7.678	164	298903	40.00	ppm	0.00
91) d10-Phenanthrene	9.147	188	526994	40.00	ppm	0.00
117) d12-Chrysene	12.448	240	475502	40.00	ppm	0.00
135) d12-Perylene	15.385	264	483029	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.737	112	882038	155.28	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	77.64%
12) SURR2,PHENOL-D6	4.479	99	1101943	162.02	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	81.01%
34) SURR4,NITROBENZENE-D5	5.301	82	797655	142.56	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	142.56%#
63) SURR5,2-FLUOROBIPHENYL	7.016	172	1697458	151.81	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	151.81%#
88) SURR3,2,4,6-TRIBROMOPH...	8.463	330	229625	100.18	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	50.09%
124) SURR6,TERPHENYL-D14	10.851	244	1638464	157.11	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	157.11%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Pyridine	2.754	79	884601	157.438	ppm	100
3) N-Nitrosodimethylamine	2.722	74	454710	159.370	ppm	97
4) 2-Picoline	3.299	93	936643	155.729	ppm	98
5) N-Nitrosomethylamine	3.379	42	319105	144.902	ppm	97
6) Methyl Methansulfonate	3.608	80	377785	131.737	ppm	98
8) N-Nitrosodiethylamine	3.913	102	498690	160.004	ppm	92
9) Ethyl Mathanesulfonate	4.148	79	611212	155.868	ppm	98
11) Aniline	4.522	93	1552835	158.801	ppm	97
13) Phenol	4.490	94	1073407	161.462	ppm	97
14) bis(2-Clethyl)Ether	4.564	93	779718	157.631	ppm	99
15) Pentachloroethane	4.564	117	313378	160.518	ppm	97
16) 2-Chlorophenol	4.628	128	900344	164.856	ppm	99
17) 1,3-Diclbzene	4.757	146	929079	159.895	ppm	98
18) 1,4-Dichlorobenzene	4.821	146	939939	160.964	ppm	97
19) 1,2-Diclbzene	4.954	146	902151	162.452	ppm	100
20) Benzyl Alcohol	4.922	79	659114	156.529	ppm	99
21) 1-Methyl-2-pyrrolidinone	4.992	99	562842	164.431	ppm	99
22) 2,2'-oxybis(1-Chloropr...	5.029	45	693761	148.521	ppm	95
23) 2-Methylphenol	5.034	108	806707	164.966	ppm	97
24) 3+4-Methylphenol	5.168	108	939182	183.437	ppm	89
25) Acetophenone	5.163	105	1118710	160.643	ppm	94
26) N-Nitroso-Di-n-propyla...	5.163	70	561437	157.835	ppm	96
27) N-Nitrosopyrrolidine	5.163	100	469124	171.739	ppm	# 54
28) N-Nitrosomorpholine	5.189	56	408951	153.217	ppm	95
29) o-Toluidine	5.195	106	1350414	166.873	ppm	78
30) Hexachloroethane	5.259	117	350083	166.264	ppm	84
31) o,o,o-Triethylphosphor...	5.702	198	358581	157.945	ppm	92
32) Alpha-terpinol	5.996	121	299873	169.898	ppm	99
35) Nitrobenzene	5.323	77	813135	143.973	ppm	95
36) N-Nitrosopiperidine	5.462	42	408406	148.893	ppm	95
37) Isophorone	5.542	82	1465663	152.590	ppm	97
38) 2-Nitrophenol	5.611	139	447925	154.585	ppm	96
39) 2,4-Dimethylphenol	5.654	107	823762	156.224	ppm	96

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) bis(-2-Chloroethoxy)Me...	5.729	93	883370	152.937	ppm	98
41) Benzoic Acid	5.766	105	359263	92.301	ppm	99
42) 2,4-Dichlorophenol	5.846	162	672055	161.966	ppm	96
43) a,a-Dimethylphenethyla...	6.028	58	1560638m	148.107	ppm	
44) 1,2,4-Trichlorobenzene	5.910	180	697378	151.151	ppm	99
45) Naphthalene	5.990	128	2389517	152.628	ppm	97
46) 4-Chloroaniline	6.049	127	1178254	153.896	ppm	98
47) 2,6-Dichlorophenol	6.055	162	713249	158.599	ppm	99
48) Hexachlorobutadiene	6.103	225	339982	134.216	ppm	99
49) Hexachloropropene	6.071	213	412074	136.176	ppm	99
50) 4-Chloro-3-methylphenol	6.519	107	649338	161.205	ppm	96
51) N-N-di-n-butylamine	6.359	84	498363	145.983	ppm	98
52) Caprolactam	6.418	113	273606	176.765	ppm	90
53) p-Phenylenediamine	6.402	80	28596	134.342	ppm	94
54) Safrole	6.567	162	714805	161.306	ppm	99
55) 2-Methylnaphthalene	6.658	142	1604686	160.661	ppm	99
56) 1-Methylnaphthalene	6.754	142	1478018	158.223	ppm	98
58) Hexachlorocyclopentadiene	6.802	237	373827	133.666	ppm	97
59) 1,2,4,5-Tetrachloroben...	6.818	216	643731	140.546	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.096	216	626398	144.689	ppm	99
61) 2,4,6-Trichlorophenol	6.936	196	422271	147.420	ppm	98
62) 2,4,5-Trichlorophenol	6.979	196	427485	143.853	ppm	96
64) Isosafrole	7.075	104	266078	141.094	ppm	# 29
65) 1,1'-Biphenyl	7.112	154	1872045	151.052	ppm	96
66) 2-Chloronaphthalene	7.139	162	1408081	153.809	ppm	97
67) 2-Nitroaniline	7.240	65	330494	139.495	ppm	95
68) 1,4-Naphthoquinone	7.310	158	428359	147.344	ppm	78
69) m-Dinitrobenzene	7.454	168	247849	146.195	ppm	96
70) Acenaphthylene	7.545	152	2297818	157.876	ppm	99
71) Dimethyl phthalate	7.417	163	1556370	154.118	ppm	99
72) 2,6-Dinitrotoluene	7.475	165	361281	159.773	ppm	97
73) Acenaphthene	7.716	153	1583607	159.273	ppm	96
74) 3-Nitroaniline	7.652	138	434064	159.170	ppm	90
75) 2,4-Dinitrophenol	7.753	184	125180	96.015	ppm	90
76) Dibenzofuran	7.881	168	1895628	148.318	ppm	98
77) 2,4-Dinitrotoluene	7.876	165	488461	150.768	ppm	94
78) 4-Nitrophenol	7.833	65	252806	136.212	ppm	94
79) Pentachlorobenzene	7.838	250	529746	123.318	ppm	98
80) 1-Naphthylamine	7.967	143	993244	151.719	ppm	98
81) 2-Naphthylamine	8.047	143	1339415	152.078	ppm	97
82) 2,3,4,6-Tetrachlorophenol	8.009	232	309148	134.302	ppm	97
83) Fluorene	8.223	166	1542286	146.151	ppm	98
84) 4-Chlorophenyl-phenyle...	8.218	204	616687	135.945	ppm	96
85) Diethylphthalate	8.111	149	1585493	148.623	ppm	98
86) 4-Nitroaniline	8.266	138	478487	160.338	ppm	98
87) 5-Nitro-o-toluidine	8.250	152	495862	158.424	ppm	96
89) Sulfotepp	8.490	322	269325	113.934	ppm	97
90) Octachlorocyclopentene	8.469	307	223631	107.721	ppm	100
92) Thionazin	8.191	107	269429	168.350	ppm	99
93) 4,6-Dinitro-2-methylph...	8.282	198	242065	129.362	ppm	99
94) Diphenylamine	8.341	169	2364256	308.260	ppm	99
95) 1,2 Diphenylhydrazine	8.378	77	1339897	144.789	ppm	96
96) N-Nitrosodiphenylamine	8.341	169	2364256	308.260	ppm	99
97) 1,3,5-Trinirobenzene	8.624	74	207351	128.724	ppm	# 1
98) Diallate	8.618	86	550923	147.170	ppm	100
99) Phorate	8.629	121	299314	167.671	ppm	86

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

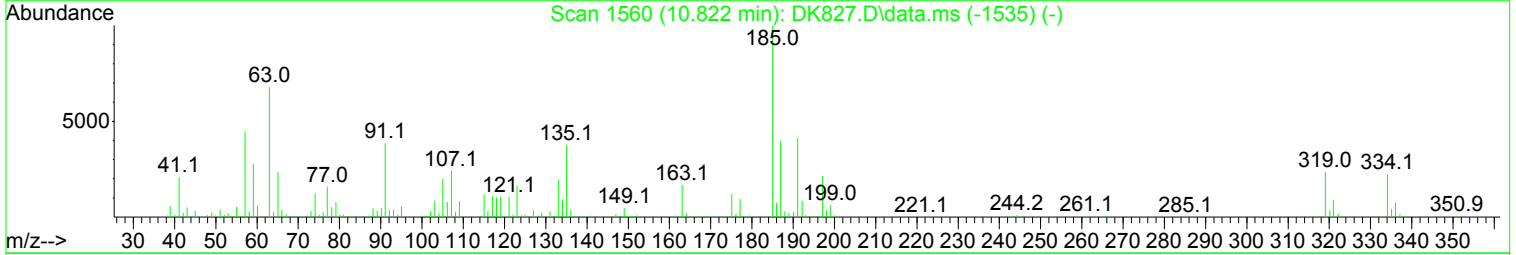
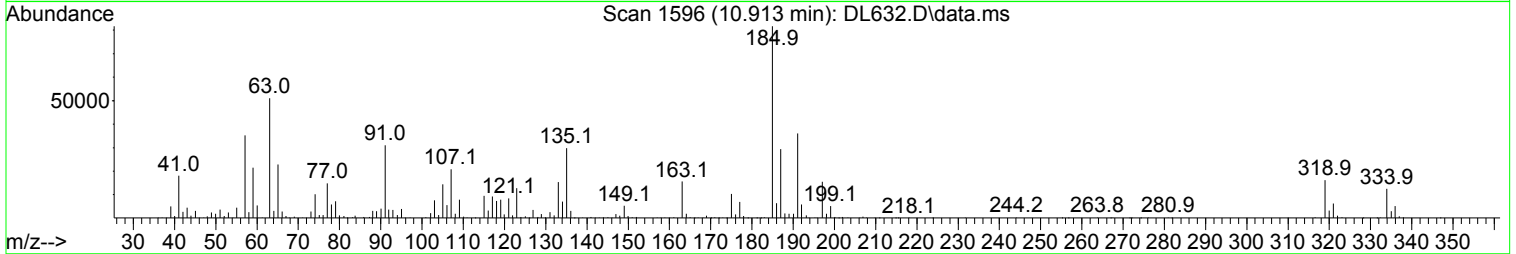
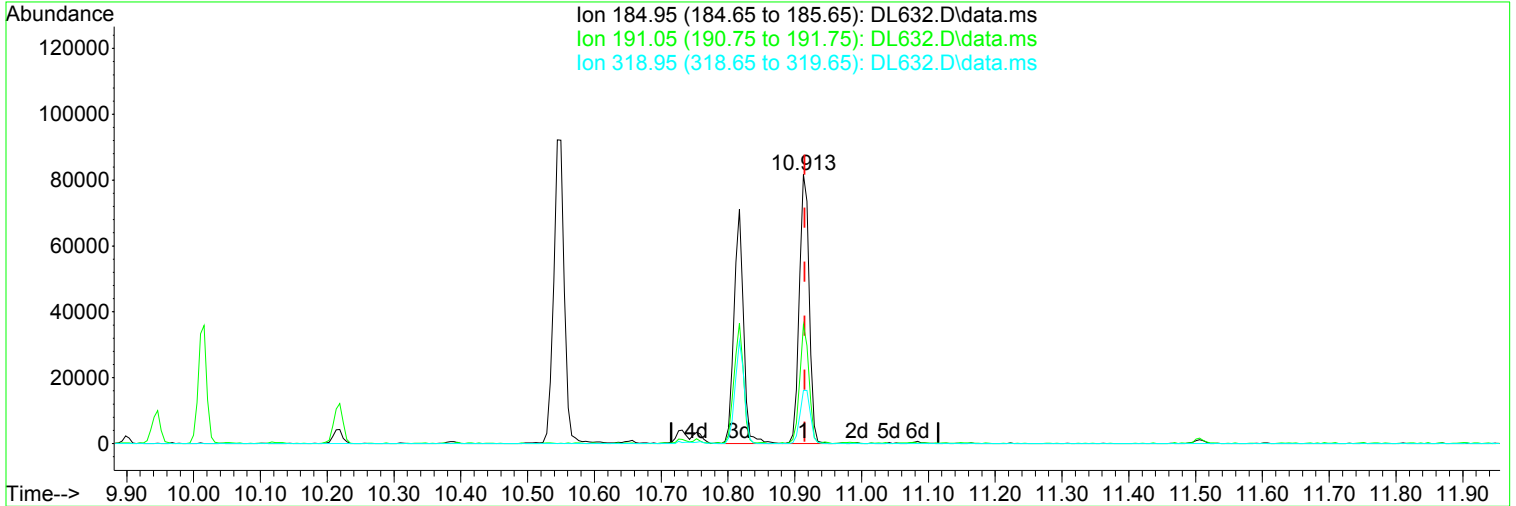
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.666	108	822528	156.202	ppm	97
101) 4-Bromophenyl-phenylether	8.704	248	376194	133.548	ppm	97
102) Hexachlorobenzene	8.762	284	460599	124.957	ppm	97
103) Dimethoate	8.816	87	344763	104.982	ppm	97
104) Atrazine	8.875	215	213293	134.337	ppm	96
105) Pentachlorophenol	8.965	266	229887	103.684	ppm	94
106) 4-Aminobiphenyl	8.965	169	1559358	152.676	ppm	98
107) Pentachloronitrobenzene	8.971	237	146391	129.624	ppm	96
108) Pronamide	9.024	173	694195	163.081	ppm	99
109) Dinoseb	9.142	211	320819	118.436	ppm	99
110) Disulfoton	9.147	88	535365	148.683	ppm	98
111) Phenanthrene	9.174	178	2140655	153.762	ppm	98
112) Anthracene	9.227	178	2174955	156.436	ppm	98
113) Carbazole	9.387	167	2267727	159.697	ppm	98
114) Di-n-butylphthalate	9.719	149	2702522	154.727	ppm	97
115) 4-Nitroquinoline-1-oxide	9.948	190	141108	112.967	ppm	93
116) Fluoranthene	10.397	202	2244701	158.089	ppm	99
118) Methyl Parathion	9.516	109	307109	130.289	ppm	97
119) Ethyl Parathion	9.900	97	286192	163.425	ppm	99
120) Methapyrilene	10.018	58	382109	119.312	ppm	96
121) Isodrin	10.221	193	226595	181.449	ppm	99
122) Benzidine	10.557	184	1462158	163.554	ppm	99
123) Pyrene	10.664	202	2309344	179.534	ppm	99
125) Aramite	10.920	185	289116m	191.263	ppm	
126) p-(Dimethylamino)azobe...	11.032	120	741031	186.760	ppm	96
127) Chlorobenzilate	11.091	139	699581	181.297	ppm	93
128) Butyl benzyl phthalate	11.534	149	1277574	177.134	ppm	98
129) 3,3-Dimethylbenzidine	11.518	212	1587818	156.656	ppm	100
130) 2-Acetylaminofluorene	11.919	181	1011426	187.168	ppm	99
131) 3,3'-Dichlorobenzidine	12.405	252	1030091	151.758	ppm	98
132) Benzo(a)anthracene	12.426	228	2141762	158.610	ppm	98
133) Chrysene	12.496	228	1977391	157.905	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.523	149	1738444	173.942	ppm	97
136) Di-n-octyl phthalate	13.863	149	3032536	181.046	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.574	256	1073206	156.456	ppm	97
138) Benzo(b)Fluoranthene	14.584	252	2266633	160.528	ppm	99
139) Benzo(k)fluoranthene	14.638	252	2040268	151.132	ppm	99
140) Benzo(a)pyrene	15.273	252	1982481	164.479	ppm	99
141) 3-Methylcholanthrene	16.042	268	1155171	161.283	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.346	276	1752659	159.037	ppm	99
143) Dibenz(a,h)anthracene	17.394	278	1926802	154.379	ppm	97
144) Benzo(g,h,i)perylene	17.805	276	1613792	208.790	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL632.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.913min (-0.002) 85.33 ppm m

After

response 153905

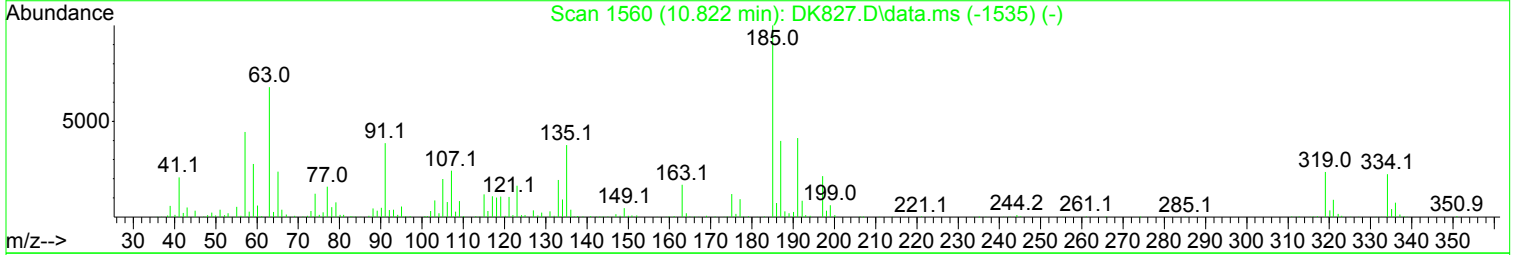
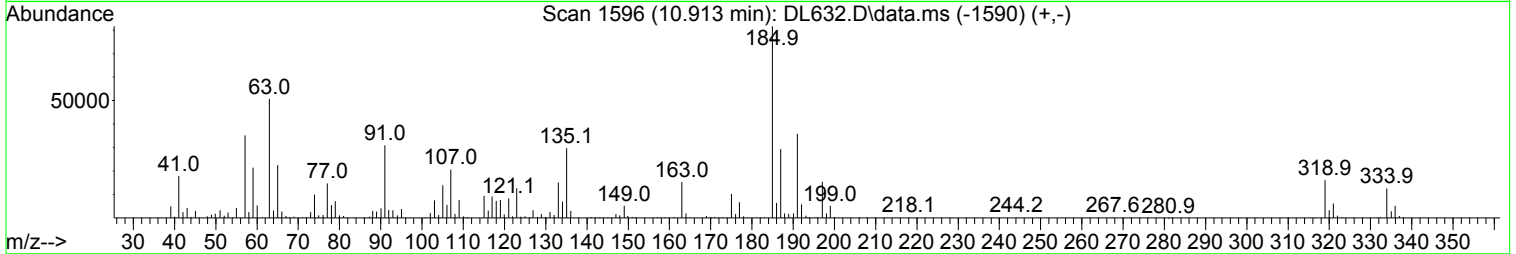
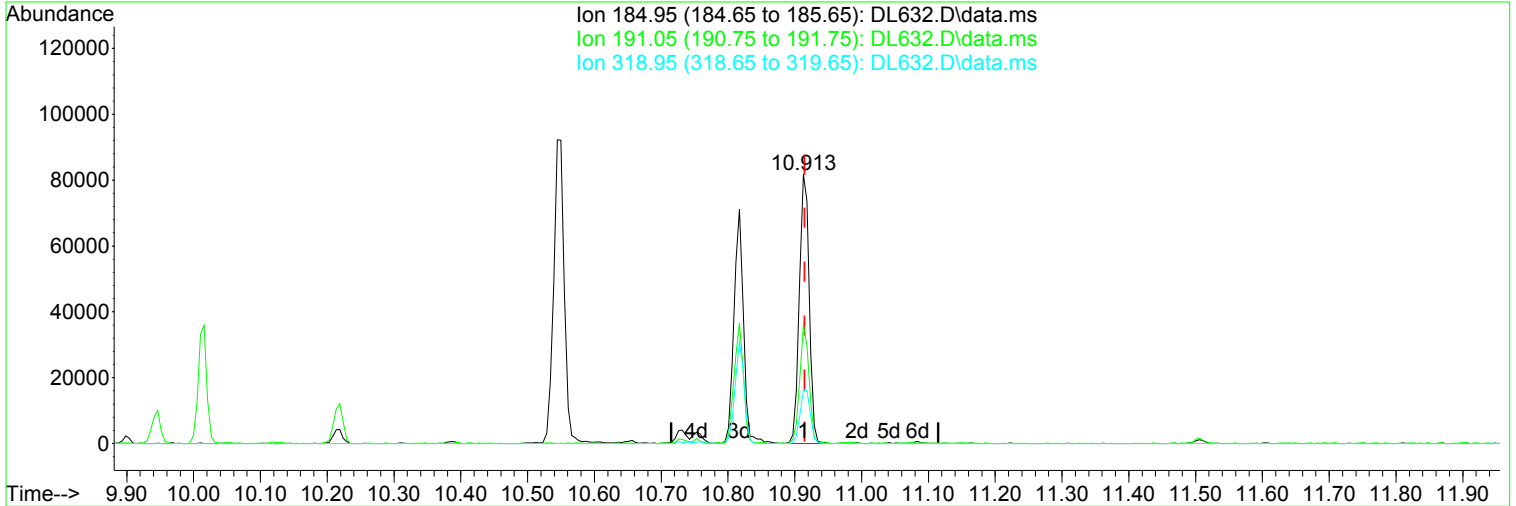
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	41.10	44.11
318.95	21.00	19.73
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL632.D\data.ms

(125) Aramite (TM) Manual Integration:

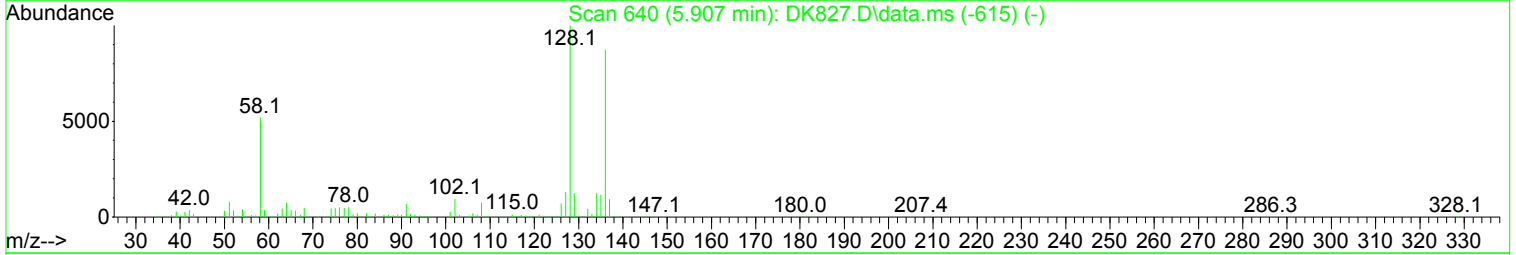
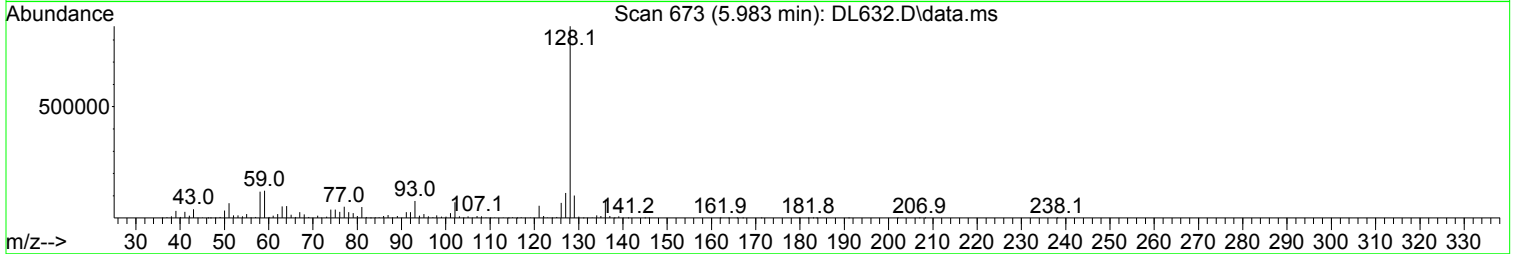
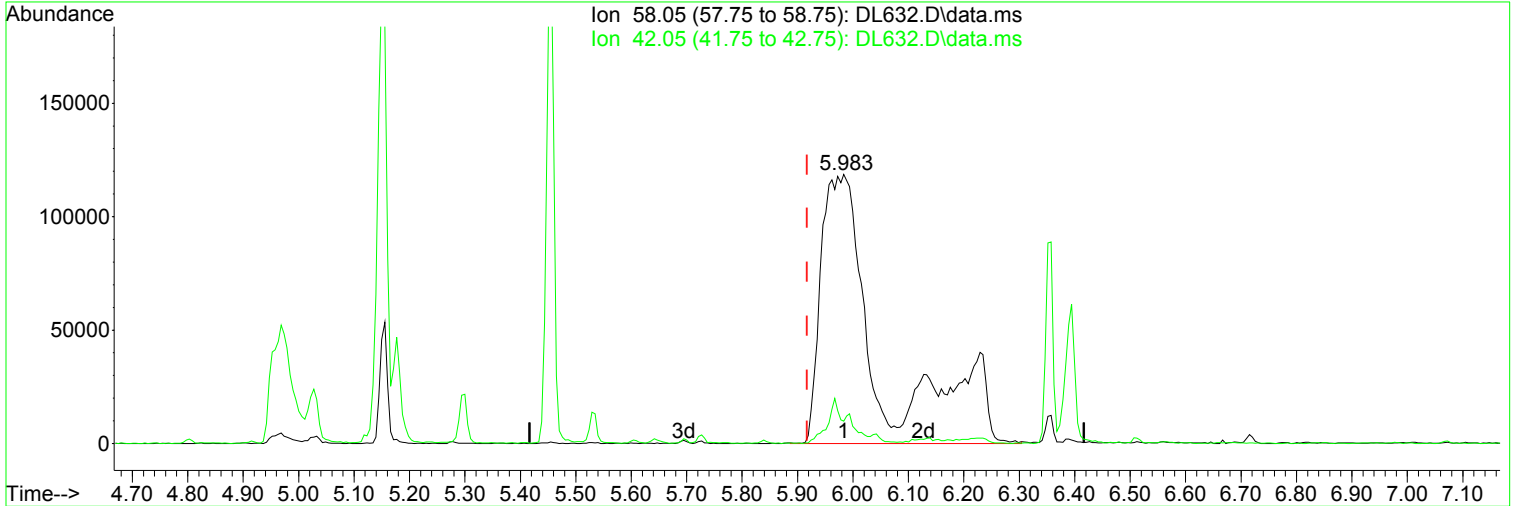
10.913min (-0.002) 46.29 ppm Before

response 83483

Ion	Exp%	Act%	
184.95	100.00	100.00	01/24/18
191.05	41.10	43.91	
318.95	21.00	19.73	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.983min (+ 0.066) 84.43 ppm m

After

response 852408

Poor integration.

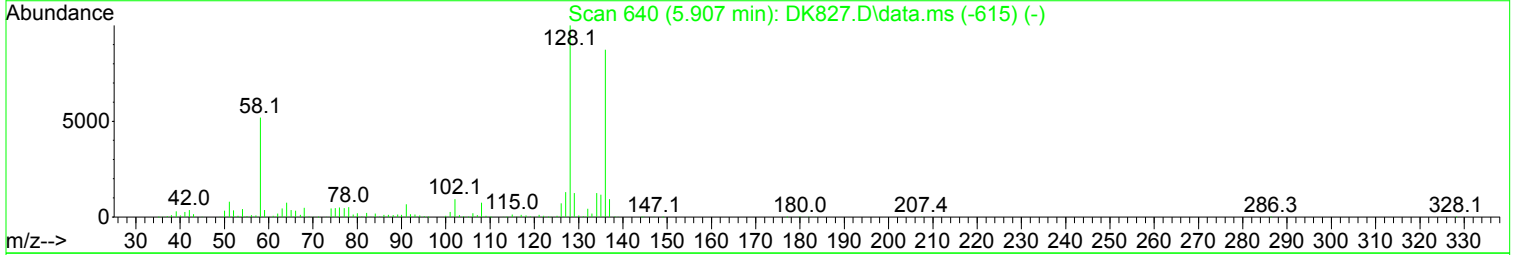
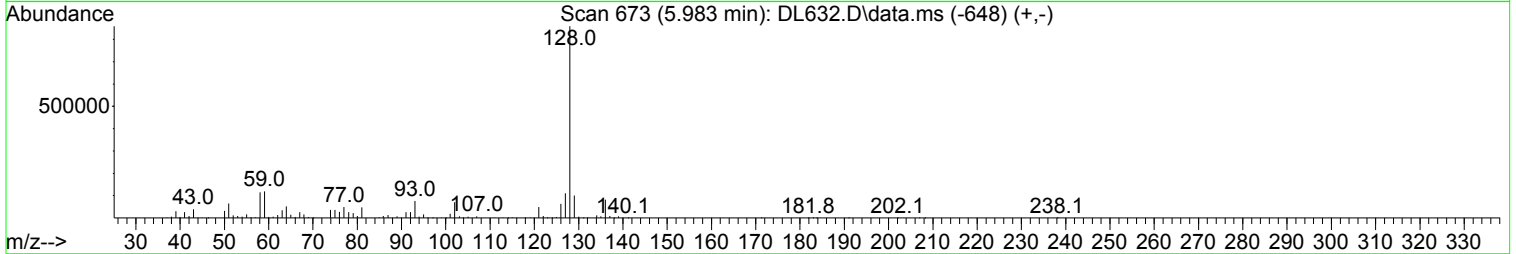
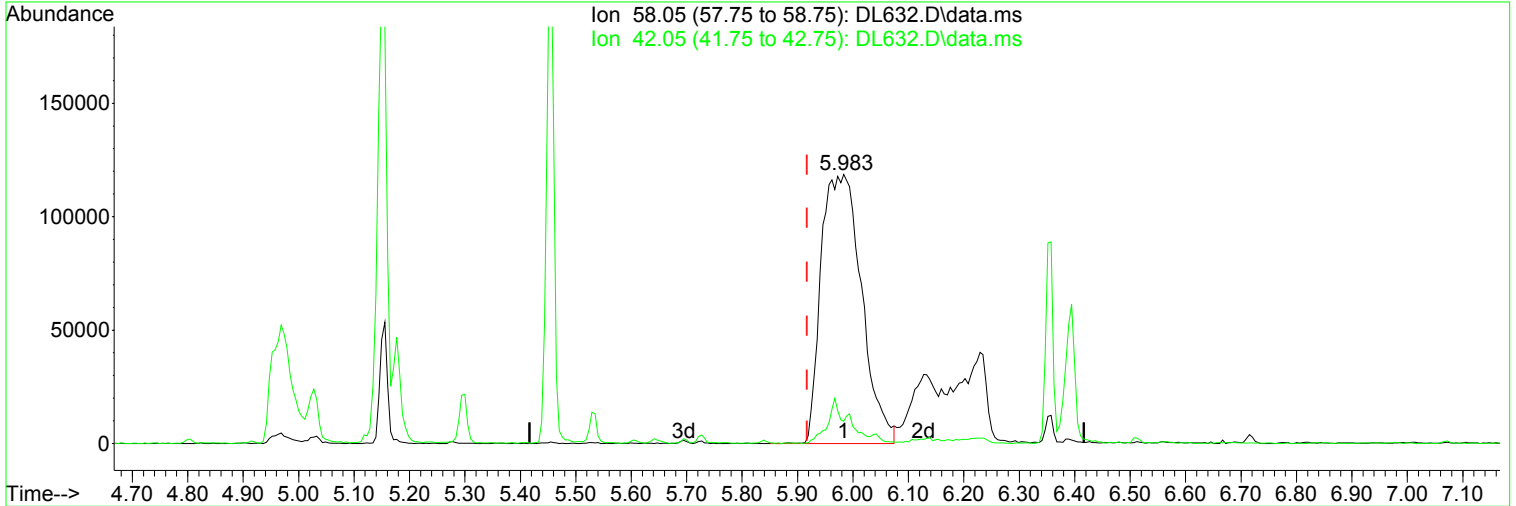
Ion	Exp%	Act%
58.05	100.00	100.00
42.05	5.90	8.32
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL632.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.983min (+ 0.066) 59.35 ppm

Before

response 599157

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	5.90	8.12
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800014-01	2.5 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL624.D	01/23/2018 12:20
02	RC1800014-02	5.0 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL625.D	01/23/2018 12:48
03	RC1800014-03	10 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL626.D	01/23/2018 13:17
04	RC1800014-04	50 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL627.D	01/23/2018 13:47
05	RC1800014-05	80 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL628.D	01/23/2018 14:16
06	RC1800014-06	100 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL629.D	01/23/2018 14:44
07	RC1800014-07	120 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL630.D	01/23/2018 15:13
08	RC1800014-08	160 ppm STD	I:\ACQUADATA\5973A\DATA\012318\DL631.D	01/23/2018 15:42

**Analyte**

**1,2,4,5-Tetrachlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.536	02	5.000	0.5362	03	10.000	0.5265	04	50.000	0.5356
05	80.000	0.5255	06	100.000	0.5353	07	120.000	0.5259	08	160.000	0.5384

**2,3,4,6-Tetrachlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.1991	03	10.000	0.204	04	50.000	0.2191	05	80.000	0.2335
06	100.000	0.2429	07	120.000	0.2439	08	160.000	0.2586			

**2,4,5-Trichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3331	02	5.000	0.3386	03	10.000	0.3204	04	50.000	0.358
05	80.000	0.3526	06	100.000	0.3588	07	120.000	0.3531	08	160.000	0.3575

**2,4,6-Trichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3025	02	5.000	0.2874	03	10.000	0.322	04	50.000	0.3322
05	80.000	0.3399	06	100.000	0.3533	07	120.000	0.3461	08	160.000	0.3532

**2,4-Dichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2094	02	5.000	0.242	03	10.000	0.2384	04	50.000	0.2501
05	80.000	0.2545	06	100.000	0.2646	07	120.000	0.2569	08	160.000	0.2709

**2,4-Dimethylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.299	02	5.000	0.3104	03	10.000	0.3189	04	50.000	0.3135
05	80.000	0.3274	06	100.000	0.3247	07	120.000	0.3224	08	160.000	0.3321

**2,4-Dinitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.01698	03	10.000	0.0226	04	50.000	0.05485	05	80.000	0.07254
06	100.000	0.08386	07	120.000	0.09285	08	160.000	0.1047			

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

**Analyte**

**2,4-Dinitrotoluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2242	03	10.000	0.2279	04	50.000	0.3179	05	80.000	0.3471
06	100.000	0.3793	07	120.000	0.3847	08	160.000	0.4085			

**2,6-Dinitrotoluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2037	03	10.000	0.2249	04	50.000	0.2705	05	80.000	0.2759
06	100.000	0.2874	07	120.000	0.2934	08	160.000	0.3022			

**2-Chloronaphthalene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.194	02	5.000	1.183	03	10.000	1.212	04	50.000	1.188
05	80.000	1.159	06	100.000	1.184	07	120.000	1.154	08	160.000	1.178

**2-Chlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.324	02	5.000	1.27	03	10.000	1.307	04	50.000	1.295
05	80.000	1.334	06	100.000	1.315	07	120.000	1.334	08	160.000	1.382

**2-Methylnaphthalene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6443	02	5.000	0.6714	03	10.000	0.6251	04	50.000	0.6413
05	80.000	0.633	06	100.000	0.633	07	120.000	0.6256	08	160.000	0.6469

**2-Methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.2	02	5.000	1.108	03	10.000	1.203	04	50.000	1.152
05	80.000	1.207	06	100.000	1.188	07	120.000	1.193	08	160.000	1.238

**2-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2006	02	5.000	0.2084	03	10.000	0.2235	04	50.000	0.2594
05	80.000	0.2701	06	100.000	0.2742	07	120.000	0.2691	08	160.000	0.2764

**2-Nitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1268	02	5.000	0.1222	03	10.000	0.127	04	50.000	0.1489
05	80.000	0.1583	06	100.000	0.1678	07	120.000	0.1695	08	160.000	0.1806

**3,3'-Dichlorobenzidine**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4972	02	5.000	0.4997	03	10.000	0.4974	04	50.000	0.5279
05	80.000	0.5465	06	100.000	0.5365	07	120.000	0.5348	08	160.000	0.5416

**3- and 4-Methylphenol Coelution**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.266	02	5.000	1.241	03	10.000	1.242	04	50.000	1.263
05	80.000	1.294	06	100.000	1.27	07	120.000	1.276	08	160.000	1.442

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

**Analyte**

**3-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2442	03	10.000	0.2829	04	50.000	0.3003	05	80.000	0.3203
06	100.000	0.3435	07	120.000	0.3481	08	160.000	0.363			

**4,6-Dinitro-2-methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.03907	03	10.000	0.04548	04	50.000	0.08376	05	80.000	0.09371
06	100.000	0.09876	07	120.000	0.1103	08	160.000	0.1148			

**4-Bromophenyl Phenyl Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2057	02	5.000	0.2016	03	10.000	0.2141	04	50.000	0.1784
05	80.000	0.1763	06	100.000	0.1746	07	120.000	0.178	08	160.000	0.1785

**4-Chloro-3-methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2373	02	5.000	0.2407	03	10.000	0.2496	04	50.000	0.2532
05	80.000	0.2555	06	100.000	0.2588	07	120.000	0.2529	08	160.000	0.2618

**4-Chloroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4443	02	5.000	0.4603	03	10.000	0.4628	04	50.000	0.4682
05	80.000	0.4645	06	100.000	0.4747	07	120.000	0.4651	08	160.000	0.475

**4-Chlorophenyl Phenyl Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5883	02	5.000	0.5939	03	10.000	0.5456	04	50.000	0.5481
05	80.000	0.5378	06	100.000	0.5282	07	120.000	0.5085	08	160.000	0.5158

**4-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2949	03	10.000	0.3158	04	50.000	0.3773	05	80.000	0.3755
06	100.000	0.3848	07	120.000	0.3836	08	160.000	0.4002			

**4-Nitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1394	04	50.000	0.177	05	80.000	0.1895	06	100.000	0.2018
07	120.000	0.2073	08	160.000	0.2114						

**Acenaphthene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.3	02	5.000	1.345	03	10.000	1.36	04	50.000	1.336
05	80.000	1.319	06	100.000	1.339	07	120.000	1.305	08	160.000	1.325

**Acenaphthylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.922	02	5.000	2.018	03	10.000	1.959	04	50.000	1.96
05	80.000	1.923	06	100.000	1.924	07	120.000	1.913	08	160.000	1.922

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

Acetophenone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.779	02	5.000	1.788	03	10.000	1.754	04	50.000	1.684
05	80.000	1.722	06	100.000	1.678	07	120.000	1.684	08	160.000	1.717

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.032	02	5.000	1.053	03	10.000	1.067	04	50.000	1.047
05	80.000	1.058	06	100.000	1.034	07	120.000	1.057	08	160.000	1.032

Atrazine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09939	02	5.000	0.1082	03	10.000	0.1219	04	50.000	0.1177
05	80.000	0.1129	06	100.000	0.1086	07	120.000	0.1077	08	160.000	0.1012

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.151	02	5.000	1.118	03	10.000	1.121	04	50.000	1.109
05	80.000	1.12	06	100.000	1.104	07	120.000	1.113	08	160.000	1.126

Benzaldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.867	02	10.000	0.865	03	20.000	0.8606	04	50.000	0.8582
05	80.000	0.8647	06	100.000	0.8198	07	120.000	0.8091			

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.894	02	5.000	0.8762	03	10.000	0.9662	04	50.000	0.9973
05	80.000	1.011	06	100.000	1.017	07	120.000	1.027	08	160.000	1.026

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.082	02	5.000	1.004	03	10.000	1.154	04	50.000	1.151
05	80.000	1.164	06	100.000	1.181	07	120.000	1.178	08	160.000	1.173

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.008	02	5.000	0.904	03	10.000	0.9798	04	50.000	0.9119
05	80.000	0.9144	06	100.000	0.8939	07	120.000	0.8788	08	160.000	0.8352

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.062	02	5.000	0.9657	03	10.000	1.121	04	50.000	1.1
05	80.000	1.104	06	100.000	1.083	07	120.000	1.099	08	160.000	1.056

Biphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.681	02	5.000	1.653	03	10.000	1.624	04	50.000	1.606
05	80.000	1.578	06	100.000	1.595	07	120.000	1.565	08	160.000	1.566

**Client:** Day Environmental, Incorporated  
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**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

**Analyte**

**2,2'-Oxybis(1-chloropropane)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.083	02	5.000	1.1	03	10.000	1.079	04	50.000	1.072
05	80.000	1.076	06	100.000	1.04	07	120.000	1.046	08	160.000	1.065

**Bis(2-chloroethoxy)methane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3744	02	5.000	0.3555	03	10.000	0.3587	04	50.000	0.3581
05	80.000	0.357	06	100.000	0.3571	07	120.000	0.3424	08	160.000	0.3561

**Bis(2-chloroethyl) Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.268	02	5.000	1.16	03	10.000	1.16	04	50.000	1.159
05	80.000	1.185	06	100.000	1.159	07	120.000	1.166	08	160.000	1.197

**Bis(2-ethylhexyl) Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.7904	02	5.000	0.7896	03	10.000	0.8118	04	50.000	0.8797
05	80.000	0.9064	06	100.000	0.8884	07	120.000	0.902	08	160.000	0.914

**Butyl Benzyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5931	02	5.000	0.6344	03	10.000	0.6154	04	50.000	0.6319
05	80.000	0.6567	06	100.000	0.6434	07	120.000	0.6631	08	160.000	0.6717

**Caprolactam**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09136	02	5.000	0.09622	03	10.000	0.1081	04	50.000	0.1042
05	80.000	0.1064	06	100.000	0.1069	07	120.000	0.105	08	160.000	0.1103

**Carbazole**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.013	02	5.000	1.037	03	10.000	1.126	04	50.000	1.124
05	80.000	1.103	06	100.000	1.086	07	120.000	1.095	08	160.000	1.076

**Chrysene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.088	02	5.000	1.077	03	10.000	1.063	04	50.000	1.023
05	80.000	1.041	06	100.000	1.018	07	120.000	1.03	08	160.000	1.04

**Di-n-butyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.114	02	5.000	1.195	03	10.000	1.388	04	50.000	1.391
05	80.000	1.362	06	100.000	1.343	07	120.000	1.343	08	160.000	1.282

**Di-n-octyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	1.098	03	10.000	1.315	04	50.000	1.463	05	80.000	1.526
06	100.000	1.544	07	120.000	1.585	08	160.000	1.57			

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QA/QC Report

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Service Request: R1801453  
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Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

Dibenz(a,h)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.99	02	5.000	0.921	03	10.000	1.011	04	50.000	1
05	80.000	1.036	06	100.000	1.031	07	120.000	1.021	08	160.000	0.9972

Dibenzofuran

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.69	02	5.000	1.7	03	10.000	1.699	04	50.000	1.655
05	80.000	1.599	06	100.000	1.629	07	120.000	1.574	08	160.000	1.585

Diethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.406	02	5.000	1.354	03	10.000	1.323	04	50.000	1.275
05	80.000	1.28	06	100.000	1.313	07	120.000	1.298	08	160.000	1.326

Dimethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.37	02	5.000	1.367	03	10.000	1.399	04	50.000	1.288
05	80.000	1.253	06	100.000	1.275	07	120.000	1.258	08	160.000	1.302

Fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9281	02	5.000	1.012	03	10.000	1.151	04	50.000	1.13
05	80.000	1.107	06	100.000	1.094	07	120.000	1.098	08	160.000	1.065

Fluorene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.405	02	5.000	1.465	03	10.000	1.377	04	50.000	1.366
05	80.000	1.337	06	100.000	1.324	07	120.000	1.283	08	160.000	1.29

Hexachlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.256	02	5.000	0.2482	03	10.000	0.2638	04	50.000	0.231
05	80.000	0.2218	06	100.000	0.2144	07	120.000	0.223	08	160.000	0.2185

Hexachlorobutadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1226	02	5.000	0.1418	03	10.000	0.1326	04	50.000	0.1306
05	80.000	0.1335	06	100.000	0.1345	07	120.000	0.1334	08	160.000	0.1371

Hexachlorocyclopentadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.239	02	5.000	0.2518	03	10.000	0.2735	04	50.000	0.2945
05	80.000	0.3033	06	100.000	0.3084	07	120.000	0.3049	08	160.000	0.3127

Hexachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5703	02	5.000	0.5301	03	10.000	0.5335	04	50.000	0.5217
05	80.000	0.5356	06	100.000	0.5132	07	120.000	0.5202	08	160.000	0.5374

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QA/QC Report

Client: Day Environmental, Incorporated  
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Service Request: R1801453  
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Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9072	02	5.000	0.8382	03	10.000	0.9358	04	50.000	0.9221
05	80.000	0.9442	06	100.000	0.9296	07	120.000	0.9401	08	160.000	0.9071

Isophorone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5577	02	5.000	0.5692	03	10.000	0.5753	04	50.000	0.592
05	80.000	0.59	06	100.000	0.5952	07	120.000	0.5749	08	160.000	0.5909

N-Nitrosodi-n-propylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8314	02	5.000	0.8378	03	10.000	0.8972	04	50.000	0.8452
05	80.000	0.8757	06	100.000	0.8464	07	120.000	0.84	08	160.000	0.8618

N-Nitrosodiphenylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.6116	02	10.000	0.6512	03	20.000	0.6818	04	100.000	0.5765
05	160.000	0.5708	06	200.000	0.561	07	240.000	0.5733	08	320.000	0.5608

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.08	02	5.000	1.023	03	10.000	0.9994	04	50.000	0.9927
05	80.000	0.9826	06	100.000	0.9731	07	120.000	0.9396	08	160.000	0.9633

Nitrobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2743	02	5.000	0.2812	03	10.000	0.2837	04	50.000	0.3048
05	80.000	0.3137	06	100.000	0.3184	07	120.000	0.3169	08	160.000	0.3278

Pentachlorophenol (PCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.02341	03	10.000	0.04031	04	50.000	0.06591	05	80.000	0.07808
06	100.000	0.08391	07	120.000	0.1025	08	160.000	0.1091			

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.068	02	5.000	1.098	03	10.000	1.061	04	50.000	1.047
05	80.000	1.034	06	100.000	1.021	07	120.000	1.053	08	160.000	1.016

Phenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.628	02	5.000	1.492	03	10.000	1.561	04	50.000	1.572
05	80.000	1.579	06	100.000	1.603	07	120.000	1.588	08	160.000	1.648

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.153	02	5.000	1.15	03	10.000	1.128	04	50.000	1.189
05	80.000	1.212	06	100.000	1.207	07	120.000	1.215	08	160.000	1.214



ALS Group USA, Corp.  
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QA/QC Report

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Service Request: R1801453  
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Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

2,4,6-Tribromophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1787	02	5.000	0.1881	03	10.000	0.1871	04	50.000	0.1941
05	80.000	0.1926	06	100.000	0.1976	07	120.000	0.1957	08	160.000	0.1921

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.404	02	5.000	1.462	03	10.000	1.415	04	50.000	1.42
05	80.000	1.386	06	100.000	1.417	07	120.000	1.384	08	160.000	1.42

2-Fluorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.217	02	5.000	1.287	03	10.000	1.292	04	50.000	1.284
05	80.000	1.331	06	100.000	1.295	07	120.000	1.305	08	160.000	1.354

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2518	02	5.000	0.2832	03	10.000	0.2739	04	50.000	0.294
05	80.000	0.3043	06	100.000	0.3144	07	120.000	0.3105	08	160.000	0.3216

Phenol-d6

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.41	02	5.000	1.562	03	10.000	1.642	04	50.000	1.601
05	80.000	1.656	06	100.000	1.638	07	120.000	1.648	08	160.000	1.691

Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8413	02	5.000	0.8573	03	10.000	0.8368	04	50.000	0.8584
05	80.000	0.8798	06	100.000	0.8632	07	120.000	0.8737	08	160.000	0.8614

**Client:** Day Environmental, Incorporated  
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**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
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**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,2,4,5-Tetrachlorobenzene	TRG	Average RF	% RSD	1.0	20	0.5324	0.010
2,3,4,6-Tetrachlorophenol	TRG	Average RF	% RSD	9.7	20	0.2287	0.010
2,4,5-Trichlorophenol	TRG	Average RF	% RSD	4.1	20	0.3465	0.200
2,4,6-Trichlorophenol	TRG	Average RF	% RSD	7.3	20	0.3296	0.200
2,4-Dichlorophenol	TRG	Average RF	% RSD	7.7	20	0.2484	0.200
2,4-Dimethylphenol	TRG	Average RF	% RSD	3.3	20	0.3185	0.200
2,4-Dinitrophenol	TRG	Quadratic	COD	0.9956	0.99	0.06405	0.010
2,4-Dinitrotoluene	TRG	Quadratic	COD	0.9975	0.99	0.3271	0.200
2,6-Dinitrotoluene	TRG	Average RF	% RSD	13.9	20	0.2654	0.200
2-Chloronaphthalene	TRG	Average RF	% RSD	1.6	20	1.181	0.800
2-Chlorophenol	TRG	Average RF	% RSD	2.5	20	1.32	0.800
2-Methylnaphthalene	TRG	Average RF	% RSD	2.3	20	0.6401	0.400
2-Methylphenol	TRG	Average RF	% RSD	3.3	20	1.186	0.700
2-Nitroaniline	TRG	Average RF	% RSD	12.7	20	0.2477	0.010
2-Nitrophenol	TRG	Average RF	% RSD	15.0	20	0.1501	0.100
3,3'-Dichlorobenzidine	TRG	Average RF	% RSD	4.0	20	0.5227	0.010
3- and 4-Methylphenol Coelution	TRG	Average RF	% RSD	5.0	20	1.287	0.600
3-Nitroaniline	TRG	Average RF	% RSD	13.3	20	0.3146	0.010
4,6-Dinitro-2-methylphenol	TRG	Quadratic	COD	0.9959	0.99	0.0837	0.010
4-Bromophenyl Phenyl Ether	TRG	Average RF	% RSD	8.5	20	0.1884	0.100
4-Chloro-3-methylphenol	TRG	Average RF	% RSD	3.4	20	0.2512	0.200
4-Chloroaniline	TRG	Average RF	% RSD	2.1	20	0.4644	0.010
4-Chlorophenyl Phenyl Ether	TRG	Average RF	% RSD	5.7	20	0.5458	0.400
4-Nitroaniline	TRG	Average RF	% RSD	11.0	20	0.3617	0.010
4-Nitrophenol	TRG	Average RF	% RSD	14.3	20	0.1878	0.010
Acenaphthene	TRG	Average RF	% RSD	1.5	20	1.329	0.900
Acenaphthylene	TRG	Average RF	% RSD	1.8	20	1.943	0.900
Acetophenone	TRG	Average RF	% RSD	2.5	20	1.726	0.010
Anthracene	TRG	Average RF	% RSD	1.3	20	1.047	0.700
Atrazine	TRG	Average RF	% RSD	7.0	20	0.1097	0.010
Benz(a)anthracene	TRG	Average RF	% RSD	1.3	20	1.12	0.800
Benzaldehyde	TRG	Average RF	% RSD	2.8	20	0.8492	0.010
Benzo(a)pyrene	TRG	Average RF	% RSD	6.1	20	0.9768	0.700
Benzo(b)fluoranthene	TRG	Average RF	% RSD	5.4	20	1.136	0.700

**Client:** Day Environmental, Incorporated  
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**Service Request:** R1801453  
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**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	6.0	20	0.9157	0.500
Benzo(k)fluoranthene	TRG	Average RF	% RSD	4.5	20	1.074	0.700
Biphenyl	TRG	Average RF	% RSD	2.6	20	1.608	0.010
2,2'-Oxybis(1-chloropropane)	TRG	Average RF	% RSD	1.8	20	1.07	0.010
Bis(2-chloroethoxy)methane	TRG	Average RF	% RSD	2.4	20	0.3574	0.300
Bis(2-chloroethyl) Ether	TRG	Average RF	% RSD	3.2	20	1.182	0.700
Bis(2-ethylhexyl) Phthalate	TRG	Average RF	% RSD	6.2	20	0.8603	0.010
Butyl Benzyl Phthalate	TRG	Average RF	% RSD	4.1	20	0.6387	0.010
Caprolactam	TRG	Average RF	% RSD	6.2	20	0.1035	0.010
Carbazole	TRG	Average RF	% RSD	3.7	20	1.083	0.010
Chrysene	TRG	Average RF	% RSD	2.5	20	1.048	0.700
Di-n-butyl Phthalate	TRG	Average RF	% RSD	7.6	20	1.302	0.010
Di-n-octyl Phthalate	TRG	Average RF	% RSD	12.3	20	1.443	0.010
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	3.6	20	1.001	0.400
Dibenzofuran	TRG	Average RF	% RSD	3.2	20	1.641	0.800
Diethyl Phthalate	TRG	Average RF	% RSD	3.2	20	1.322	0.010
Dimethyl Phthalate	TRG	Average RF	% RSD	4.3	20	1.314	0.010
Fluoranthene	TRG	Average RF	% RSD	6.7	20	1.073	0.600
Fluorene	TRG	Average RF	% RSD	4.5	20	1.356	0.900
Hexachlorobenzene	TRG	Average RF	% RSD	8.0	20	0.2346	0.100
Hexachlorobutadiene	TRG	Average RF	% RSD	4.1	20	0.1333	0.010
Hexachlorocyclopentadiene	TRG	Average RF	% RSD	9.8	20	0.286	0.050
Hexachloroethane	TRG	Average RF	% RSD	3.3	20	0.5328	0.300
Indeno(1,2,3-cd)pyrene	TRG	Average RF	% RSD	3.7	20	0.9155	0.500
Isophorone	TRG	Average RF	% RSD	2.3	20	0.5806	0.400
N-Nitrosodi-n-propylamine	TRG	Average RF	% RSD	2.6	20	0.8544	0.500
N-Nitrosodiphenylamine	TRG	Average RF	% RSD	7.6	20	0.5984	0.010
Naphthalene	TRG	Average RF	% RSD	4.3	20	0.9941	0.700
Nitrobenzene	TRG	Average RF	% RSD	6.6	20	0.3026	0.200
Pentachlorophenol (PCP)	TRG	Quadratic	COD	0.9951	0.99	0.07189	0.050
Phenanthrene	TRG	Average RF	% RSD	2.6	20	1.05	0.700
Phenol	TRG	Average RF	% RSD	3.0	20	1.584	0.800
Pyrene	TRG	Average RF	% RSD	2.9	20	1.183	0.600
2,4,6-Tribromophenol	SURR	Average RF	% RSD	3.2	20	0.1907	
2-Fluorobiphenyl	SURR	Average RF	% RSD	1.7	20	1.414	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2-Fluorophenol	SURR	Average RF	% RSD	3.1	20	1.295	
Nitrobenzene-d5	SURR	Average RF	% RSD	8.0	20	0.2942	
Phenol-d6	SURR	Average RF	% RSD	5.5	20	1.606	
Terphenyl-d14	SURR	Average RF	% RSD	1.7	20	0.859	

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800014-09	ICV	I:\ACQUADATA\5973A\DATA\012318\DL632.D	01/23/2018 16:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	77.6	5.324E-1	5.168E-1	-2.938	±30	Average RF
2,3,4,6-Tetrachlorophenol	80.0	84.9	2.287E-1	2.428E-1	6.15	±30	Average RF
2,4,5-Trichlorophenol	80.0	81.2	3.465E-1	3.518E-1	1.53	±30	Average RF
2,4,6-Trichlorophenol	80.0	84.0	3.296E-1	3.459E-1	4.96	±30	Average RF
2,4-Dichlorophenol	80.0	84.9	2.484E-1	2.636E-1	6.12	±30	Average RF
2,4-Dimethylphenol	80.0	81.2	3.185E-1	3.233E-1	1.51	±30	Average RF
2,4-Dinitrophenol	80.0	102	6.405E-2	1.043E-1	27.89	±30	Quadratic
2,4-Dinitrotoluene	80.0	94.7	3.271E-1	4.244E-1	18.42	±30	Quadratic
2,6-Dinitrotoluene	80.0	98.8	2.654E-1	3.278E-1	23.51	±30	Average RF
2-Chloronaphthalene	80.0	78.9	1.181E0	1.164E0	-1.427	±30	Average RF
2-Chlorophenol	80.0	81.3	1.32E0	1.341E0	1.60	±30	Average RF
2-Methylnaphthalene	80.0	79.3	6.401E-1	6.345E-1	-0.867	±30	Average RF
2-Methylphenol	80.0	77.7	1.186E0	1.152E0	-2.881	±30	Average RF
2-Nitroaniline	80.0	89.4	2.477E-1	2.769E-1	11.76	±30	Average RF
2-Nitrophenol	80.0	92.0	1.501E-1	1.727E-1	15.04	±30	Average RF
3,3'-Dichlorobenzidine	50.0	47.4	5.227E-1	4.959E-1	-5.125	±30	Average RF
3- and 4-Methylphenol Coelution	80.0	78.9	1.287E0	1.27E0	-1.338	±30	Average RF
3-Nitroaniline	80.0	85.9	3.146E-1	3.379E-1	7.40	±30	Average RF
4,6-Dinitro-2-methylphenol	80.0	87.5	8.37E-2	1.033E-1	9.37	±30	Quadratic
4-Bromophenyl Phenyl Ether	80.0	81.2	1.884E-1	1.912E-1	1.50	±30	Average RF
4-Chloro-3-methylphenol	80.0	82.7	2.512E-1	2.598E-1	3.42	±30	Average RF
4-Chloroaniline	50.0	46.7	4.644E-1	4.341E-1	-6.525	±30	Average RF
4-Chlorophenyl Phenyl Ether	80.0	85.0	5.458E-1	5.797E-1	6.23	±30	Average RF
4-Nitroaniline	80.0	81.0	3.617E-1	3.662E-1	1.22	±30	Average RF
4-Nitrophenol	80.0	87.8	1.878E-1	2.06E-1	9.70	±30	Average RF
Acenaphthene	80.0	80.7	1.329E0	1.341E0	0.907	±30	Average RF
Acenaphthylene	80.0	82.3	1.943E0	1.999E0	2.91	±30	Average RF
Acetophenone	80.0	77.9	1.726E0	1.68E0	-2.683	±30	Average RF
Anthracene	80.0	83.0	1.047E0	1.087E0	3.77	±30	Average RF
Atrazine	50.0	46.9	1.097E-1	1.029E-1	-6.222	±30	Average RF
Benz(a)anthracene	80.0	81.2	1.12E0	1.138E0	1.56	±30	Average RF
Benzaldehyde	80.0	83.7	8.492E-1	8.884E-1	4.62	±30	Average RF
Benzo(a)pyrene	80.0	86.1	9.768E-1	1.051E0	7.63	±30	Average RF
Benzo(b)fluoranthene	80.0	84.8	1.136E0	1.204E0	6.00	±30	Average RF
Benzo(g,h,i)perylene	80.0	74.3	9.157E-1	8.51E-1	-7.075	±30	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800014-09	ICV	I:\ACQUDATA\5973A\DATA\012318\DL632.D	01/23/2018 16:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzo(k)fluoranthene	80.0	85.1	1.074E0	1.142E0	6.36	±30	Average RF
Biphenyl	80.0	79.3	1.608E0	1.594E0	-0.878	±30	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	96.3	1.07E0	1.288E0	20.34	±30	Average RF
Bis(2-chloroethoxy)methane	80.0	83.3	3.574E-1	3.721E-1	4.11	±30	Average RF
Bis(2-chloroethyl) Ether	80.0	83.5	1.182E0	1.234E0	4.42	±30	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	80.3	8.603E-1	8.637E-1	0.398	±30	Average RF
Butyl Benzyl Phthalate	80.0	76.4	6.387E-1	6.102E-1	-4.457	±30	Average RF
Caprolactam	80.0	81.7	1.035E-1	1.057E-1	2.07	±30	Average RF
Carbazole	80.0	78.7	1.083E0	1.064E0	-1.687	±30	Average RF
Chrysene	80.0	84.4	1.048E0	1.105E0	5.45	±30	Average RF
Di-n-butyl Phthalate	80.0	81.4	1.302E0	1.325E0	1.78	±30	Average RF
Di-n-octyl Phthalate	80.0	78.2	1.443E0	1.41E0	-2.243	±30	Average RF
Dibenz(a,h)anthracene	80.0	83.8	1.001E0	1.048E0	4.72	±30	Average RF
Dibenzofuran	80.0	79.9	1.641E0	1.64E0	-0.085	±30	Average RF
Diethyl Phthalate	80.0	75.5	1.322E0	1.248E0	-5.583	±30	Average RF
Dimethyl Phthalate	80.0	75.2	1.314E0	1.235E0	-6.028	±30	Average RF
Fluoranthene	80.0	86.0	1.073E0	1.154E0	7.52	±30	Average RF
Fluorene	80.0	82.0	1.356E0	1.389E0	2.46	±30	Average RF
Hexachlorobenzene	80.0	73.0	2.346E-1	2.139E-1	-8.805	±30	Average RF
Hexachlorobutadiene	80.0	79.3	1.333E-1	1.322E-1	-0.822	±30	Average RF
Hexachlorocyclopentadiene	80.0	81.9	2.86E-1	2.93E-1	2.44	±30	Average RF
Hexachloroethane	80.0	78.6	5.328E-1	5.231E-1	-1.811	±30	Average RF
Indeno(1,2,3-cd)pyrene	80.0	81.6	9.155E-1	9.335E-1	1.96	±30	Average RF
Isophorone	80.0	92.9	5.806E-1	6.743E-1	16.14	±30	Average RF
N-Nitrosodi-n-propylamine	80.0	82.4	8.544E-1	8.802E-1	3.02	±30	Average RF
N-Nitrosodiphenylamine	160	157	5.984E-1	5.877E-1	-1.790	±30	Average RF
Naphthalene	80.0	82.4	9.941E-1	1.024E0	2.98	±30	Average RF
Nitrobenzene	80.0	95.6	3.026E-1	3.616E-1	19.50	±30	Average RF
Pentachlorophenol (PCP)	80.0	92.1	7.189E-2	9.686E-2	15.09	±30	Quadratic
Phenanthrene	80.0	81.4	1.05E0	1.068E0	1.77	±30	Average RF
Phenol	80.0	82.0	1.584E0	1.623E0	2.47	±30	Average RF
Pyrene	80.0	84.1	1.183E0	1.244E0	5.15	±30	Average RF
2,4,6-Tribromophenol	80.0	79.2	1.907E-1	1.889E-1	-0.950	±30	Average RF
2-Fluorobiphenyl	80.0	77.6	1.414E0	1.371E0	-3.006	±30	Average RF
2-Fluorophenol	80.0	77.5	1.295E0	1.255E0	-3.087	±30	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800014-09	ICV	I:\ACQUDATA\5973A\DATA\012318\DL632.D	01/23/2018 16:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Nitrobenzene-d5	80.0	84.1	2.942E-1	3.093E-1	5.14	±30	Average RF
Phenol-d6	80.0	78.7	1.606E0	1.58E0	-1.619	±30	Average RF
Terphenyl-d14	80.0	78.4	8.59E-1	8.417E-1	-2.018	±30	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801453  
Date Analyzed: 02/22/18 14:17

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

Analysis Method: 8270D  
File ID: I:\ACQUADATA\5973A\DATA\022218\DL988.D\  
Signal ID: 1

Calibration Date: 1/23/2018  
Calibration ID: RC1800014  
Analysis Lot: 581642  
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	80.4	0.5324	0.5353	0.5	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	86.2	0.2287	0.2465	7.8	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	81.8	0.3465	0.3543	2.3	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	84.2	0.3296	0.3469	5.2	NA	±20	Average RF
2,4-Dichlorophenol	80.0	84.7	0.2484	0.263	5.9	NA	±20	Average RF
2,4-Dimethylphenol	80.0	81.8	0.3185	0.3257	2.3	NA	±20	Average RF
2,4-Dinitrophenol	80.0	104	0.0641	0.1064	NA	29.5*	±20	Quadratic
2,4-Dinitrotoluene	80.0	89.0	0.3271	0.3923	NA	11.2	±20	Quadratic
2,6-Dinitrotoluene	80.0	89.6	0.2654	0.2972	12.0	NA	±20	Average RF
2-Chloronaphthalene	80.0	78.7	1.1812	1.1616	-1.7	NA	±20	Average RF
2-Chlorophenol	80.0	78.7	1.3202	1.2992	-1.6	NA	±20	Average RF
2-Methylnaphthalene	80.0	79.3	0.6401	0.6345	-0.9	NA	±20	Average RF
2-Methylphenol	80.0	77.6	1.186	1.1502	-3.0	NA	±20	Average RF
2-Nitroaniline	80.0	87.4	0.2477	0.2706	9.2	NA	±20	Average RF
2-Nitrophenol	80.0	95.9	0.1501	0.1799	19.9	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	79.1	0.5227	0.517	-1.1	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	83.8	1.2868	1.3481	4.8	NA	±20	Average RF
3-Nitroaniline	80.0	89.9	0.3146	0.3535	12.3	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	99.4	0.0837	0.1226	NA	24.2*	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	75.4	0.1884	0.1776	-5.7	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	82.5	0.2512	0.259	3.1	NA	±20	Average RF
4-Chloroaniline	80.0	79.0	0.4644	0.4588	-1.2	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	78.2	0.5458	0.5334	-2.3	NA	±20	Average RF
4-Nitroaniline	80.0	85.9	0.3617	0.3884	7.4	NA	±20	Average RF
4-Nitrophenol	80.0	77.3	0.1878	0.1813	-3.4	NA	±20	Average RF
Acenaphthene	80.0	78.2	1.3286	1.2983	-2.3	NA	±20	Average RF
Acenaphthylene	80.0	78.3	1.9426	1.9016	-2.1	NA	±20	Average RF
Acetophenone	80.0	74.6	1.7258	1.6091	-6.8	NA	±20	Average RF
Anthracene	80.0	78.7	1.0473	1.03	-1.7	NA	±20	Average RF
Atrazine	80.0	79.7	0.1097	0.1093	-0.3	NA	±20	Average RF
Benz(a)anthracene	80.0	76.8	1.1204	1.075	-4.0	NA	±20	Average RF
Benzaldehyde	80.0	76.4	0.8492	0.8105	-4.6	NA	±20	Average RF
Benzo(a)pyrene	80.0	82.0	0.9768	1.0015	2.5	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	81.4	1.1358	1.1561	1.8	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	79.4	0.9157	0.9089	-0.8	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	79.6	1.0738	1.0682	-0.5	NA	±20	Average RF
Biphenyl	80.0	77.5	1.6085	1.5578	-3.1	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	66.0	1.0701	0.8827	-17.5	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	78.7	0.3574	0.3514	-1.7	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	74.7	1.1818	1.1029	-6.7	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	82.0	0.8603	0.8815	2.5	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	78.4	0.6387	0.6257	-2.0	NA	±20	Average RF



ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/22/18 14:17

**Continuing Calibration Verification (CCV) Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUADATA\5973A\DATA\022218\DL988.D\  
**Signal ID:** 1

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800014  
**Analysis Lot:** 581642  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	79.8	0.1035	0.1032	-0.3	NA	±20	Average RF
Carbazole	80.0	77.8	1.0825	1.0533	-2.7	NA	±20	Average RF
Chrysene	80.0	76.7	1.0477	1.0038	-4.2	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	81.5	1.3022	1.3268	1.9	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	83.6	1.4427	1.5079	4.5	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	82.1	1.0008	1.0276	2.7	NA	±20	Average RF
Dibenzofuran	80.0	77.5	1.6415	1.5893	-3.2	NA	±20	Average RF
Diethyl Phthalate	80.0	77.8	1.3218	1.2851	-2.8	NA	±20	Average RF
Dimethyl Phthalate	80.0	76.7	1.314	1.2601	-4.1	NA	±20	Average RF
Fluoranthene	80.0	80.1	1.0731	1.0739	0.1	NA	±20	Average RF
Fluorene	80.0	76.7	1.3558	1.3002	-4.1	NA	±20	Average RF
Hexachlorobenzene	80.0	76.0	0.2346	0.2229	-5.0	NA	±20	Average RF
Hexachlorobutadiene	80.0	82.9	0.1333	0.1381	3.6	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	74.4	0.286	0.2661	-6.9	NA	±20	Average RF
Hexachloroethane	80.0	75.9	0.5328	0.5054	-5.1	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	82.2	0.9155	0.941	2.8	NA	±20	Average RF
Isophorone	80.0	78.7	0.5806	0.571	-1.7	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	72.7	0.8544	0.7764	-9.1	NA	±20	Average RF
N-Nitrosodiphenylamine	160	149	0.5984	0.5554	-7.2	NA	±20	Average RF
Naphthalene	80.0	77.8	0.9941	0.9666	-2.8	NA	±20	Average RF
Nitrobenzene	80.0	82.8	0.3026	0.3131	3.5	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	91.0	0.0719	0.0952	NA	13.7	±20	Quadratic
Phenanthrene	80.0	77.2	1.0498	1.0133	-3.5	NA	±20	Average RF
Phenol	80.0	82.9	1.5838	1.641	3.6	NA	±20	Average RF
Pyrene	80.0	78.5	1.1835	1.162	-1.8	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	85.1	0.1907	0.2028	6.3	NA	±20	Average RF
2-Fluorobiphenyl	80.0	78.2	1.4136	1.3825	-2.2	NA	±20	Average RF
2-Fluorophenol	80.0	78.0	1.2954	1.2635	-2.5	NA	±20	Average RF
Nitrobenzene-d5	80.0	85.1	0.2942	0.3131	6.4	NA	±20	Average RF
Phenol-d6	80.0	76.7	1.606	1.5407	-4.1	NA	±20	Average RF
Terphenyl-d14	80.0	77.6	0.859	0.8337	-2.9	NA	±20	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801453  
Date Analyzed: 02/27/18 09:32

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

Analysis Method: 8270D  
File ID: I:\ACQUADATA\5973A\DATA\022718\DM053.D\  
Signal ID: 1

Calibration Date: 1/23/2018  
Calibration ID: RC1800014  
Analysis Lot: 581919  
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	82.8	0.5324	0.5509	3.5	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	90.0	0.2287	0.2572	12.4	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	84.1	0.3465	0.3642	5.1	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	86.6	0.3296	0.3566	8.2	NA	±20	Average RF
2,4-Dichlorophenol	80.0	84.2	0.2484	0.2613	5.2	NA	±20	Average RF
2,4-Dimethylphenol	80.0	83.1	0.3185	0.3307	3.8	NA	±20	Average RF
2,4-Dinitrophenol	80.0	105	0.0641	0.1083	NA	30.9*	±20	Quadratic
2,4-Dinitrotoluene	80.0	91.0	0.3271	0.4037	NA	13.8	±20	Quadratic
2,6-Dinitrotoluene	80.0	90.9	0.2654	0.3016	13.6	NA	±20	Average RF
2-Chloronaphthalene	80.0	81.5	1.1812	1.2041	1.9	NA	±20	Average RF
2-Chlorophenol	80.0	83.0	1.3202	1.3696	3.7	NA	±20	Average RF
2-Methylnaphthalene	80.0	81.3	0.6401	0.6508	1.7	NA	±20	Average RF
2-Methylphenol	80.0	81.5	1.186	1.2088	1.9	NA	±20	Average RF
2-Nitroaniline	80.0	91.3	0.2477	0.2828	14.2	NA	±20	Average RF
2-Nitrophenol	80.0	97.0	0.1501	0.1819	21.2*	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	85.4	0.5227	0.5579	6.7	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	89.9	1.2868	1.4459	12.4	NA	±20	Average RF
3-Nitroaniline	80.0	92.9	0.3146	0.3653	16.1	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	97.5	0.0837	0.1194	NA	21.8*	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	77.4	0.1884	0.1823	-3.2	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	83.6	0.2512	0.2625	4.5	NA	±20	Average RF
4-Chloroaniline	80.0	81.5	0.4644	0.4732	1.9	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	81.9	0.5458	0.559	2.4	NA	±20	Average RF
4-Nitroaniline	80.0	90.5	0.3617	0.4091	13.1	NA	±20	Average RF
4-Nitrophenol	80.0	67.1	0.1878	0.1574	-16.1	NA	±20	Average RF
Acenaphthene	80.0	80.4	1.3286	1.3346	0.5	NA	±20	Average RF
Acenaphthylene	80.0	81.8	1.9426	1.9857	2.2	NA	±20	Average RF
Acetophenone	80.0	78.6	1.7258	1.6966	-1.7	NA	±20	Average RF
Anthracene	80.0	82.4	1.0473	1.0787	3.0	NA	±20	Average RF
Atrazine	80.0	83.8	0.1097	0.115	4.8	NA	±20	Average RF
Benz(a)anthracene	80.0	81.6	1.1204	1.1428	2.0	NA	±20	Average RF
Benzaldehyde	80.0	80.4	0.8492	0.8539	0.6	NA	±20	Average RF
Benzo(a)pyrene	80.0	84.5	0.9768	1.0316	5.6	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	82.8	1.1358	1.1757	3.5	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	92.2	0.9157	1.0552	15.2	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	81.4	1.0738	1.093	1.8	NA	±20	Average RF
Biphenyl	80.0	81.9	1.6085	1.6472	2.4	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	65.9	1.0701	0.8816	-17.6	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	79.8	0.3574	0.3563	-0.3	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	77.8	1.1818	1.1493	-2.8	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	89.2	0.8603	0.9597	11.6	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	83.6	0.6387	0.6678	4.6	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/27/18 09:32

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUADATA\5973A\DATA\022718\DM053.D\  
**Signal ID:** 1

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800014  
**Analysis Lot:** 581919  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	84.8	0.1035	0.1097	5.9	NA	±20	Average RF
Carbazole	80.0	81.9	1.0825	1.1078	2.3	NA	±20	Average RF
Chrysene	80.0	80.2	1.0477	1.0503	0.3	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	85.8	1.3022	1.396	7.2	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	88.5	1.4427	1.5969	10.7	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	89.1	1.0008	1.1148	11.4	NA	±20	Average RF
Dibenzofuran	80.0	82.3	1.6415	1.6879	2.8	NA	±20	Average RF
Diethyl Phthalate	80.0	82.8	1.3218	1.3685	3.5	NA	±20	Average RF
Dimethyl Phthalate	80.0	80.1	1.314	1.3162	0.2	NA	±20	Average RF
Fluoranthene	80.0	83.7	1.0731	1.1225	4.6	NA	±20	Average RF
Fluorene	80.0	81.1	1.3558	1.375	1.4	NA	±20	Average RF
Hexachlorobenzene	80.0	76.8	0.2346	0.225	-4.1	NA	±20	Average RF
Hexachlorobutadiene	80.0	83.0	0.1333	0.1382	3.7	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	75.4	0.286	0.2696	-5.7	NA	±20	Average RF
Hexachloroethane	80.0	80.1	0.5328	0.5332	0.1	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	93.9	0.9155	1.075	17.4	NA	±20	Average RF
Isophorone	80.0	78.9	0.5806	0.573	-1.3	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	76.2	0.8544	0.8135	-4.8	NA	±20	Average RF
N-Nitrosodiphenylamine	160	154	0.5984	0.5772	-3.5	NA	±20	Average RF
Naphthalene	80.0	79.6	0.9941	0.989	-0.5	NA	±20	Average RF
Nitrobenzene	80.0	81.3	0.3026	0.3076	1.6	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	95.3	0.0719	0.1018	NA	19.1	±20	Quadratic
Phenanthrene	80.0	80.2	1.0498	1.0524	0.2	NA	±20	Average RF
Phenol	80.0	88.0	1.5838	1.7412	9.9	NA	±20	Average RF
Pyrene	80.0	82.7	1.1835	1.2237	3.4	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	90.0	0.1907	0.2146	12.5	NA	±20	Average RF
2-Fluorobiphenyl	80.0	80.3	1.4136	1.4186	0.4	NA	±20	Average RF
2-Fluorophenol	80.0	80.7	1.2954	1.3073	0.9	NA	±20	Average RF
Nitrobenzene-d5	80.0	84.7	0.2942	0.3116	5.9	NA	±20	Average RF
Phenol-d6	80.0	80.5	1.606	1.6163	0.6	NA	±20	Average RF
Terphenyl-d14	80.0	81.8	0.859	0.8781	2.2	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**581642  
**Instrument ID:**R-MS-51

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQU\DATA\5973A\DATA\022218\DL987.D\	ZZZZZZZ	ZZZZZZZ	2/22/2018	13:49:00	
I:\ACQU\DATA\5973A\DATA\022218\DL988.D\	Continuing Calibration Verification	RQ1801733-02	2/22/2018	14:17:00	
I:\ACQU\DATA\5973A\DATA\022218\DL989.D\	Method Blank	RQ1801602-01	2/22/2018	14:59:00	
I:\ACQU\DATA\5973A\DATA\022218\DL990.D\	Lab Control Sample	RQ1801602-02	2/22/2018	15:27:00	
I:\ACQU\DATA\5973A\DATA\022218\DL991.D\	Duplicate Lab Control Sample	RQ1801602-03	2/22/2018	15:55:00	
I:\ACQU\DATA\5973A\DATA\022218\DL992.D\	TP-01 (3.0-4.0)	R1801453-001	2/22/2018	16:23:00	
I:\ACQU\DATA\5973A\DATA\022218\DL993.D\	TP-02 (4.0)	R1801453-002	2/22/2018	16:50:00	
I:\ACQU\DATA\5973A\DATA\022218\DL994.D\	TP-02 (10.0)	R1801453-003	2/22/2018	17:18:00	
I:\ACQU\DATA\5973A\DATA\022218\DL995.D\	TP-05 (6.0)	R1801453-005	2/22/2018	17:46:00	
I:\ACQU\DATA\5973A\DATA\022218\DL996.D\	TP-06 (5.5)	R1801453-006	2/22/2018	18:13:00	
I:\ACQU\DATA\5973A\DATA\022218\DL997.D\	TP-06 (9.0)	R1801453-007	2/22/2018	18:41:00	
I:\ACQU\DATA\5973A\DATA\022218\DL998.D\	TP-07 (4.0)	R1801453-008	2/22/2018	19:09:00	
I:\ACQU\DATA\5973A\DATA\022218\DM001.D\	TP-09 (7.0)	R1801453-010	2/22/2018	20:04:00	
I:\ACQU\DATA\5973A\DATA\022218\DM002.D\	TP-10 (5.0)	R1801453-011	2/22/2018	20:31:00	
I:\ACQU\DATA\5973A\DATA\022218\DM003.D\	TP-12 (5.0)	R1801453-012	2/22/2018	20:59:00	
I:\ACQU\DATA\5973A\DATA\022218\DM004.D\	TP-13 (1.0-2.0)	R1801453-013	2/22/2018	21:26:00	
I:\ACQU\DATA\5973A\DATA\022218\DM005.D\	TP-13 (7.0)	R1801453-014	2/22/2018	21:54:00	
I:\ACQU\DATA\5973A\DATA\022218\DM006.D\	TP-14 (3.5)	R1801453-015	2/22/2018	22:21:00	
I:\ACQU\DATA\5973A\DATA\022218\DM007.D\	TP-17 (4.0)	R1801453-016	2/22/2018	22:49:00	
I:\ACQU\DATA\5973A\DATA\022218\DM008.D\	TP-19 (3.0-4.0)	R1801453-017	2/22/2018	23:17:00	
I:\ACQU\DATA\5973A\DATA\022218\DM010.D\	TP-20 (9.0) MS	RQ1801602-04	2/23/2018	00:12:00	
I:\ACQU\DATA\5973A\DATA\022218\DM011.D\	TP-20 (9.0) DMS	RQ1801602-05	2/23/2018	00:39:00	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**581919  
**Instrument ID:**R-MS-51

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQU\DATA\5973A\DATA\022718\DM052.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	09:03:00	
I:\ACQU\DATA\5973A\DATA\022718\DM053.D\	Continuing Calibration Verification	RQ1801823-02	2/27/2018	09:32:00	
I:\ACQU\DATA\5973A\DATA\022718\DM055.D\	TP-08 (5.5)	R1801453-009	2/27/2018	10:28:00	
I:\ACQU\DATA\5973A\DATA\022718\DM056.D\	TP-20 (9.0)	R1801453-018	2/27/2018	10:56:00	
I:\ACQU\DATA\5973A\DATA\022718\DM057.D\	TP-22 (4.0-5.0)	R1801453-019	2/27/2018	11:24:00	
I:\ACQU\DATA\5973A\DATA\022718\DM058.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	11:53:00	
I:\ACQU\DATA\5973A\DATA\022718\DM062.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	15:13:00	
I:\ACQU\DATA\5973A\DATA\022718\DM063.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	15:39:00	
I:\ACQU\DATA\5973A\DATA\022718\DM064.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	16:04:00	
I:\ACQU\DATA\5973A\DATA\022718\DM065.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	16:30:00	
I:\ACQU\DATA\5973A\DATA\022718\DM066.D\	ZZZZZZZ	ZZZZZZZ	2/27/2018	16:56:00	

Analysis: 82700  
 Date: 2/27/15  
 Syringes: \_\_\_\_\_

Analyst: Mis. Vremler  
 Instr. 5973A R-MS-51

Run Method: 8270A JTV.m  
 Quant Method: 8270012315A5.m

LIMS Run#: 581642

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	BLK			Dm986	-	
2	TUM		184844	87	YT	
3	CCV	30, uL	187712 (187788)	88	YCC	
4	R01801602-01	BLK	308725	89	Y	
5	-02	LS	82705	90	YQ	
6	-03	LCB		91	YQ	
7	R1801453-001	5.0		92	Y	
8	-002			93	Y	*dark
9	-003			94	Y	
10	-005			95	Y	
11	-006			96	Y	
12	-007			97	Y	
13	-008			98	Y	
14	-009	2.0		99	Y	*dark
15	-010	2.0		Dm001	Y	*dark
16	-011	5.0		02	Y	*dark
17	-012	2.0		03	Y	*dark
18	-013	5.0		04	Y	*dark
19	-014			05	Y	*dark
20	-015			06	Y	
21	-016			07	Y	
22	-017	5.0		08	Y	
23	-018			09	Y	*dark
24	R01801602-011			10	YQ	
25	-05			11	YQ	
26	R1801453-019			12	Y	*dark

Done 3/5/15

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

All samples = 1 mL + 10 uL Combined IS/Surr.; 185797

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Analysis: 8770/625

Analyst: Misiewicz

Run Method: TUNE / 5270A / 625K0

Date: 2/27/15

Instr. 5973A R-MS-51

Quant Method: 5270012345.M / 60119187.M

Syringes: \_\_\_\_\_

LIMS Run#: 581919

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			DM050	-	
1	Blk			51	-	
2	Tune			52	Y	
3	CCV	30 $\mu$ L	1880-2 1872-3	53	Y	
4	Blk			54	Y	
5	R1801453-009	3.0 $\checkmark$		55	Y	
6	↓ -018	2.0 $\checkmark$		56	Y	
7	↓ -019	5.0 $\checkmark$		57	Y	
8	R1801577-002			58	Y	
9	CCV 625K0		158973	59	(N)	vial low remake + rerun
10	CCV 625K0			60	(N)	ISTD P. Open new vial + remake
11	CCV 625K0		158250	61	Y	
12	RQ1801652-01	Blk	308820	62	Y	
13	↓ -02	LCS	LCS L0	63	Y	
14	↓ -03	LCS0		64	Y	
15	R1801466-002			65	Y	
16	-003	3.0 $\checkmark$		66	Y	

DM 2/27/15

All samples = 1 mL + 10  $\mu$ L Combined IS/Surr.; 18777

Primary: \_\_\_\_\_ exp: \_\_\_\_\_

Secondary: 5  $\mu$ L exp: 185797

Primary: \_\_\_\_\_ exp: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Reagents: \_\_\_\_\_

Runlog GCEXT r2 4/27/17

O-966 Page 147

Analysis: 5270/625  
 Date: 1/23/18  
 Syringes: \_\_\_\_\_

Analyst: DMIS/ur-w/12  
 Instr. 5973A R-MS-51

Run Method: 5270A/TUNE  
 Quant Method: 5270 01231 84m

LIMS Run#: \_\_\_\_\_

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			DL621	-	
2	Tune		184894	22	Y	
3	Blk			23	Y	
4	2.5 <u>ppm STD</u>		187471	24	Y	
5	5.0		72	25	Y	
6	10		73	26	Y	
7	50		74	27	Y	
8	50		75	28	Y	
9	100		76	29	Y	
10	120		77	30	Y	
11	160		78	31	Y	
12	ICV		79	32	Y	

DM 1/24/18

527002315A.M  
 5270012315A.M

All samples = 1 mL + 10 uL Combined IS/Surr.; 185797

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_



**ALS Group USA, Corp.**  
dba ALS Environmental

Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1801453

**Semivolatile Organic Compounds by GC/MS**

**Prep Method:** EPA 3541  
**Analytical Method:** 8270D

**Extraction Lot:**308725

<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Collected</b>	<b>Date Received</b>	<b>Sample Amount</b>	<b>Final Amount</b>	<b>Percent Solids</b>
TP-01 (3.0-4.0)	R1801453-001	2/15/18	2/19/18	30.1400 g	1 mL	85.2
TP-02 (4.0)	R1801453-002	2/15/18	2/19/18	30.0 g	1 mL	77.2
TP-02 (10.0)	R1801453-003	2/15/18	2/19/18	30.0400 g	1 mL	82.0
TP-05 (6.0)	R1801453-005	2/15/18	2/19/18	30.0900 g	1 mL	94.0
TP-06 (5.5)	R1801453-006	2/15/18	2/19/18	30.2900 g	1 mL	84.4
TP-06 (9.0)	R1801453-007	2/15/18	2/19/18	30.2200 g	1 mL	79.0
TP-07 (4.0)	R1801453-008	2/15/18	2/19/18	30.1800 g	1 mL	82.9
TP-08 (5.5)	R1801453-009	2/15/18	2/19/18	30.2200 g	1 mL	88.7
TP-09 (7.0)	R1801453-010	2/15/18	2/19/18	30.0100 g	1 mL	85.8
TP-10 (5.0)	R1801453-011	2/15/18	2/19/18	30.1400 g	1 mL	83.3
TP-12 (5.0)	R1801453-012	2/15/18	2/19/18	30.3100 g	1 mL	81.1
TP-13 (1.0-2.0)	R1801453-013	2/16/18	2/19/18	30.4300 g	1 mL	68.8
TP-13 (7.0)	R1801453-014	2/16/18	2/19/18	30.0300 g	1 mL	87.1
TP-14 (3.5)	R1801453-015	2/16/18	2/19/18	30.2800 g	1 mL	76.6
TP-17 (4.0)	R1801453-016	2/16/18	2/19/18	30.1600 g	1 mL	86.8
TP-19 (3.0-4.0)	R1801453-017	2/16/18	2/19/18	30.1800 g	1 mL	85.8
TP-20 (9.0)	R1801453-018	2/16/18	2/19/18	30.4000 g	1 mL	72.0
TP-22 (4.0-5.0)	R1801453-019	2/16/18	2/19/18	30.4200 g	1 mL	81.1
Method Blank	RQ1801602-01MB	NA	NA	30.0 g	1 mL	
Lab Control Sample	RQ1801602-02LCS	NA	NA	30.0 g	1 mL	
Duplicate Lab Control Sample	RQ1801602-03DLCS	NA	NA	30.0 g	1 mL	
Matrix Spike	RQ1801602-04MS	2/16/18	2/19/18	30.1400 g	1 mL	72.0
Duplicate Matrix Spike	RQ1801602-05DMS	2/16/18	2/19/18	30.1600 g	1 mL	72.0

# Preparation Information Benchsheet

Prep Run#: 308725  
 Team: Semivoa GCMS/DMURPHY

Prep WorkFlow: OrgExtIS(14)  
 Prep Method: EPA 3541

Status: Prepped  
 Prep Date/Time: 2/22/18 06:44 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	Spike Amt./Inv. ID	Comments
1	RQ1801602-01	MB		30.0g	8270D/SVO				1.00mL	sand	1.0000 mL/187974	
2	RQ1801602-02	LCS		30.0g	8270D/SVO				1.00mL	sand	1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035	
3	RQ1801602-03	DLCS		30.0g	8270D/SVO				1.00mL	sand	1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035	
4	R1801453-001	TP-01 (3.0-4.0)	.02	30.1400g	8270D/SVO				1.00mL	brown-coorse	1.0000 mL/187974	
5	R1801453-002	TP-02 (4.0)	.02	30.0g	8270D/SVO				1.00mL	brown-coorse	1.0000 mL/187974	
6	R1801453-003	TP-02 (10.0)	.02	30.0400g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
7	R1801453-005	TP-05 (6.0)	.02	30.0900g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
8	R1801453-006	TP-06 (5.5)	.02	30.2900g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
9	R1801453-007	TP-06 (9.0)	.02	30.2200g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
10	R1801453-008	TP-07 (4.0)	.05	30.1800g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
11	R1801453-009	TP-08 (5.5)	.05	30.2200g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
12	R1801453-010	TP-09 (7.0)	.02	30.0100g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
13	R1801453-011	TP-10 (5.0)	.05	30.1400g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
14	R1801453-012	TP-12 (5.0)	.05	30.3100g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
15	R1801453-013	TP-13 (1.0-2.0)	.02	30.4300g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
16	R1801453-014	TP-13 (7.0)	.02	30.0300g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
17	R1801453-015	TP-14 (3.5)	.02	30.2800g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
18	R1801453-016	TP-17 (4.0)	.02	30.1600g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
19	R1801453-017	TP-19 (3.0-4.0)	.02	30.1800g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
20	R1801453-018	TP-20 (9.0)	.02	30.4000g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
21	RQ1801602-04	R1801453-018 MS		30.1400g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	
22	RQ1801602-05	R1801453-018 DMS	.02	30.1600g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/188035; 1.0000 mL/187635; 1.0000 mL/187974	
23	R1801453-019	TP-22 (4.0-5.0)	.05	30.4200g	8270D/SVO				1.00mL	brown-medium	1.0000 mL/187974	

### Spiking Solutions

Name: 8270 LCS-NSI Inventory ID 187635 Logbook Ref: Expires On: 06/30/2018 Lot #: 122017  
 Name: 8270 Soil Surrogate 100-200ppm Inventory ID 187974 Logbook Ref: Expires On: 08/11/2018  
 Name: OLM/SOM additional Spike 100ppm Inventory ID 188035 Logbook Ref: Expires On: 06/03/2018

### Preparation Materials

Boiling Stones PTFE (187987)  
 Prepared Sodium Sulfate (188011)  
 Na2SO4  
 Eppendorf Pipette Repeater EXT #18 (184837)  
 Sand Reagent Grade (187622)  
 50:50 Dichloromethane:Acetone (188038)

# Preparation Information Benchsheet

Prep Run#: 308725  
Team: Semivoa GCMS/DMURPHY

Prep WorkFlow: OrgExtS(14)  
Prep Method: EPA 3541

Status: Prepped  
Prep Date/Time: 2/22/18 06:44 AM

## Preparation Steps

Step: Extraction  
Started: 2/22/18 06:44  
Finished: 2/22/18 15:37  
By: DMURPHY  
Comments

Step: Concentration  
Started: 2/22/18 15:38  
Finished: 2/22/18 15:38  
By: DMURPHY  
Comments

Step: Extraction Complete  
Started: 2/22/18 15:39  
Finished: 2/22/18 15:39  
By: DMURPHY  
Comments

Comments:

Reviewed By: Miguel Palk Date: 2/22/18 Spike Witness: MPEURO Date: \_\_\_\_\_

Chain of Custody

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_  
Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Extracts Examined  
Yes No



## Semivolatile Organic Compounds by GC

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Units:** ug/Kg  
**Basis:** Dry

**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10 U	10	6.6	5	02/23/18 19:35	2/21/18	
4,4'-DDE	<b>5.0 J</b>	10	5.0	5	02/23/18 19:35	2/21/18	
4,4'-DDT	<b>49</b>	10	5.0	5	02/23/18 19:35	2/21/18	
Aldrin	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
Dieldrin	<b>16</b>	10	5.0	5	02/23/18 19:35	2/21/18	
Endosulfan I	10 U	10	5.3	5	02/23/18 19:35	2/21/18	
Endosulfan II	10 U	10	5.5	5	02/23/18 19:35	2/21/18	
Endosulfan Sulfate	10 U	10	5.8	5	02/23/18 19:35	2/21/18	
Endrin	10 U	10	6.1	5	02/23/18 19:35	2/21/18	
Endrin Aldehyde	10 U	10	5.1	5	02/23/18 19:35	2/21/18	
Endrin Ketone	<b>41</b>	10	8.0	5	02/23/18 19:35	2/21/18	
Heptachlor	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
Heptachlor Epoxide	10 U	10	5.5	5	02/23/18 19:35	2/21/18	
Methoxychlor	<b>18</b>	10	6.2	5	02/23/18 19:35	2/21/18	
Toxaphene	100 U	100	50	5	02/23/18 19:35	2/21/18	
alpha-BHC	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
alpha-Chlordane	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
beta-BHC	10 U	10	5.4	5	02/23/18 19:35	2/21/18	
delta-BHC	10 U	10	5.0	5	02/23/18 19:35	2/21/18	
gamma-BHC (Lindane)	10 U	10	5.6	5	02/23/18 19:35	2/21/18	
gamma-Chlordane	10 U	10	5.0	5	02/23/18 19:35	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	10 - 122	02/23/18 19:35	
Tetrachloro-m-xylene	66	10 - 123	02/23/18 19:35	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Units:** ug/Kg  
**Basis:** Dry

**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**Prep Method:** EPA 3541

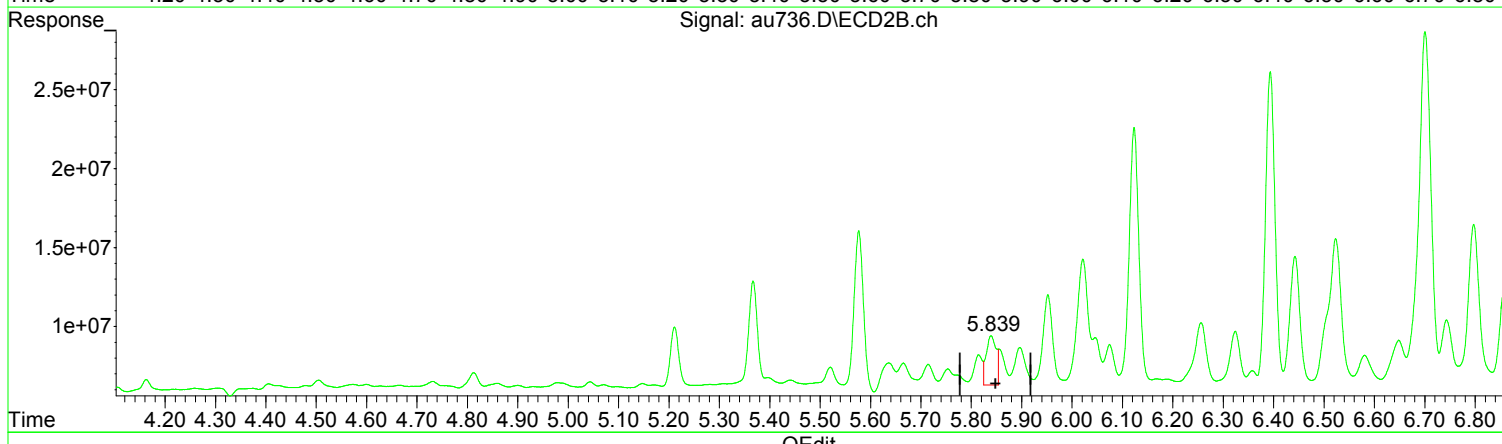
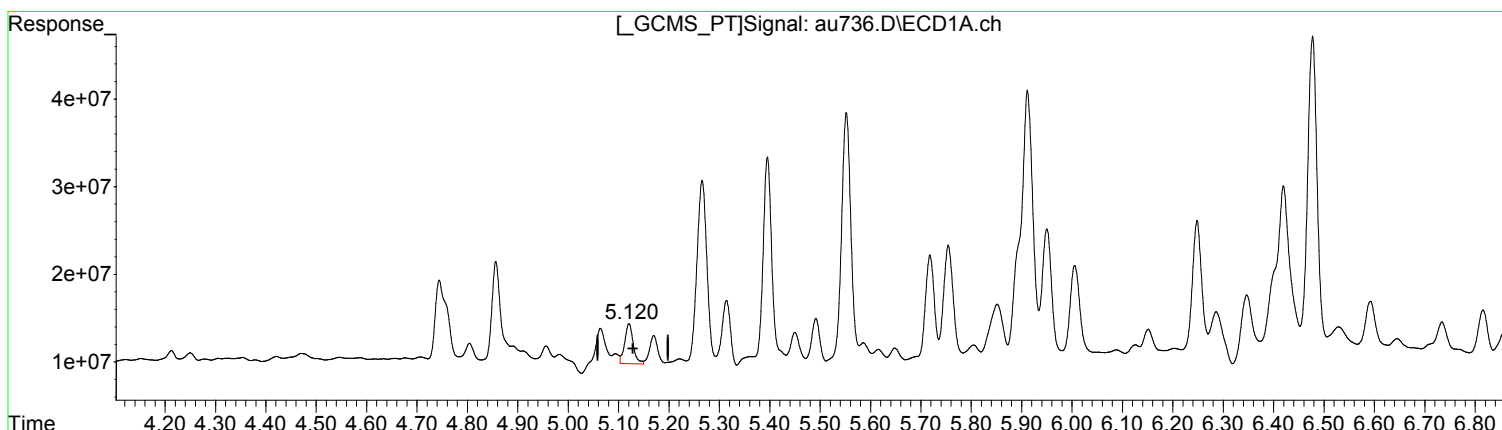
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10 U	10	6.9	5	02/23/18 20:29	2/21/18	
4,4'-DDE	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
4,4'-DDT	<b>5.5 J</b>	10	5.2	5	02/23/18 20:29	2/21/18	
Aldrin	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
Dieldrin	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
Endosulfan I	10 U	10	5.6	5	02/23/18 20:29	2/21/18	
Endosulfan II	10 U	10	5.7	5	02/23/18 20:29	2/21/18	
Endosulfan Sulfate	10 U	10	6.0	5	02/23/18 20:29	2/21/18	
Endrin	10 U	10	6.4	5	02/23/18 20:29	2/21/18	
Endrin Aldehyde	10 U	10	5.4	5	02/23/18 20:29	2/21/18	
Endrin Ketone	10 U	10	8.4	5	02/23/18 20:29	2/21/18	
Heptachlor	10 U	10	5.3	5	02/23/18 20:29	2/21/18	
Heptachlor Epoxide	10 U	10	5.8	5	02/23/18 20:29	2/21/18	
Methoxychlor	10 U	10	6.5	5	02/23/18 20:29	2/21/18	
Toxaphene	100 U	100	52	5	02/23/18 20:29	2/21/18	
alpha-BHC	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
alpha-Chlordane	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
beta-BHC	10 U	10	5.7	5	02/23/18 20:29	2/21/18	
delta-BHC	10 U	10	5.2	5	02/23/18 20:29	2/21/18	
gamma-BHC (Lindane)	10 U	10	5.9	5	02/23/18 20:29	2/21/18	
gamma-Chlordane	10 U	10	5.2	5	02/23/18 20:29	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 122	02/23/18 20:29	
Tetrachloro-m-xylene	76	10 - 123	02/23/18 20:29	

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)  
5.120min 2.575 ug/l m  
response 53794577

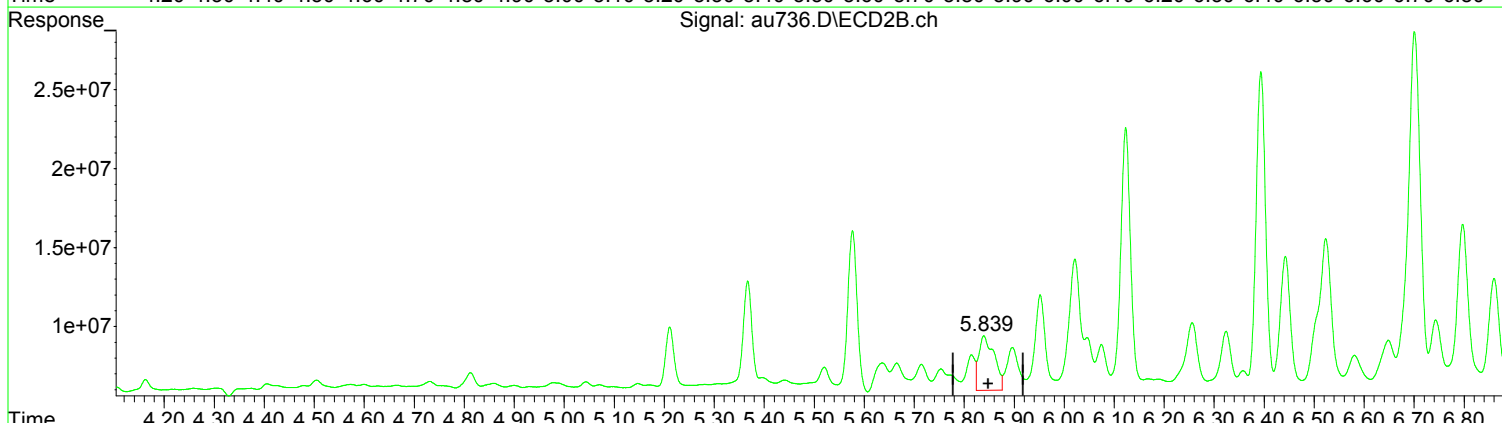
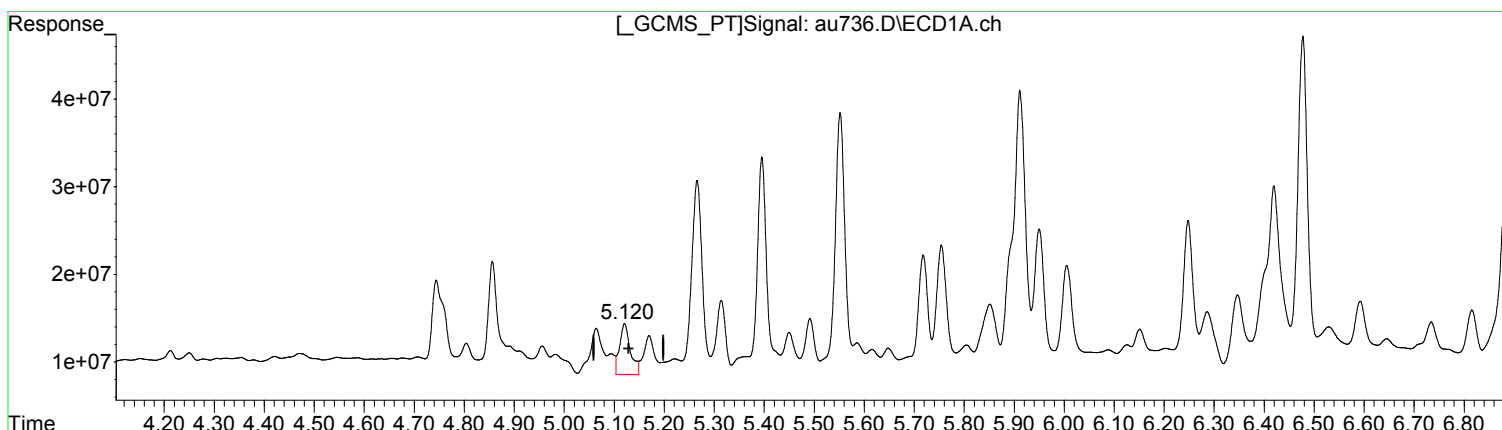
(13) 4,4'-DDE #2 (tc)  
5.839min 2.824 ug/l m  
response 42590783

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(13) 4,4'-DDE (tc)  
5.121min 4.139 ug/l  
response 86484293

(13) 4,4'-DDE #2 (tc)  
5.840min 4.872 ug/l  
response 73466202

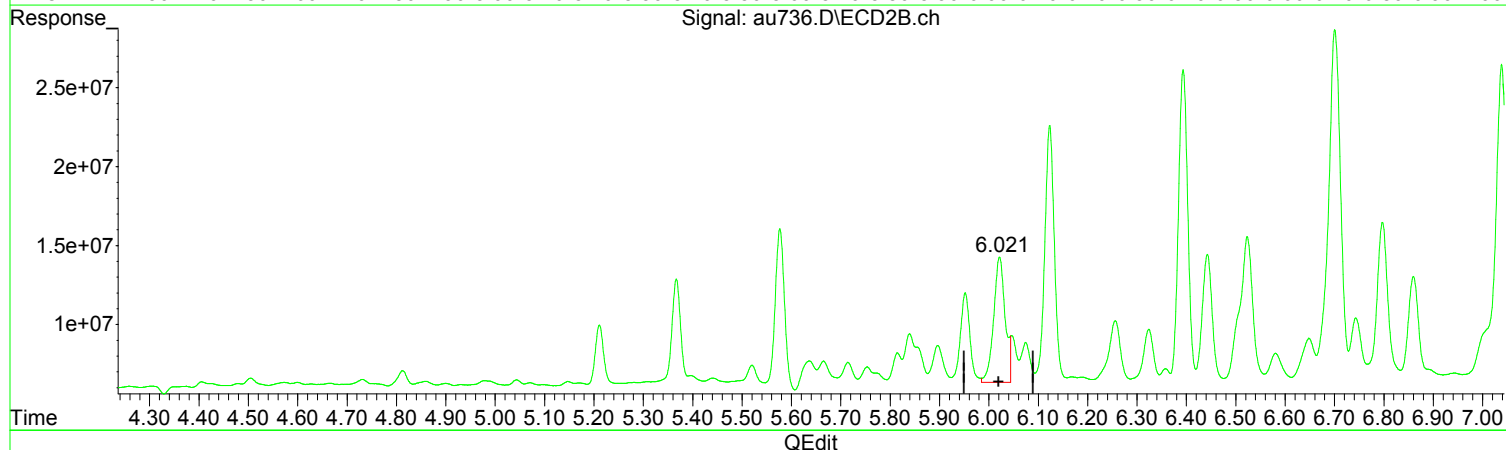
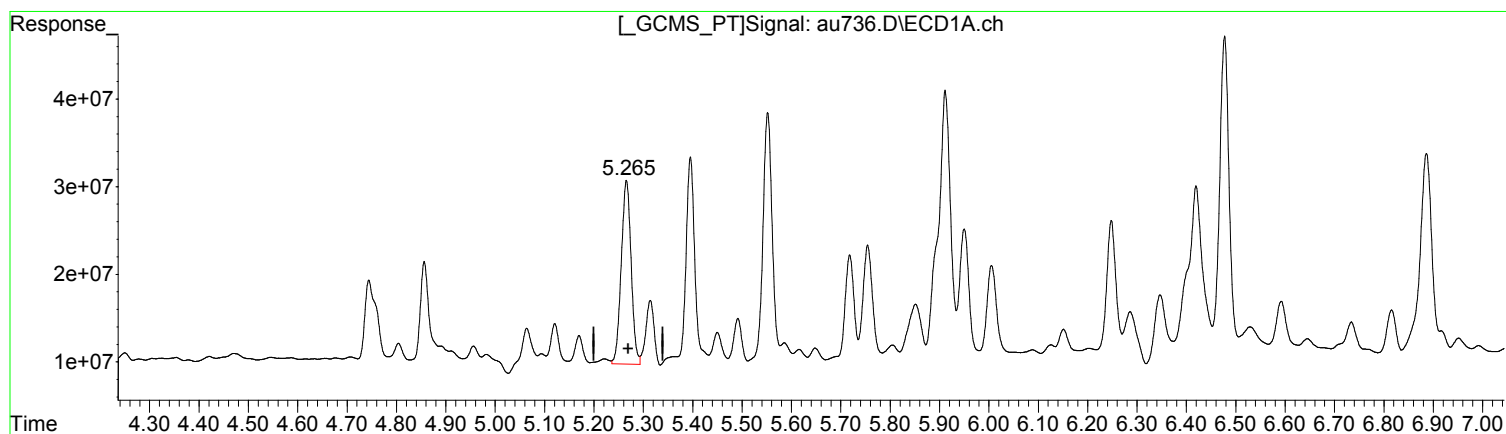
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.265min 12.865 ug/l m  
response 291300999

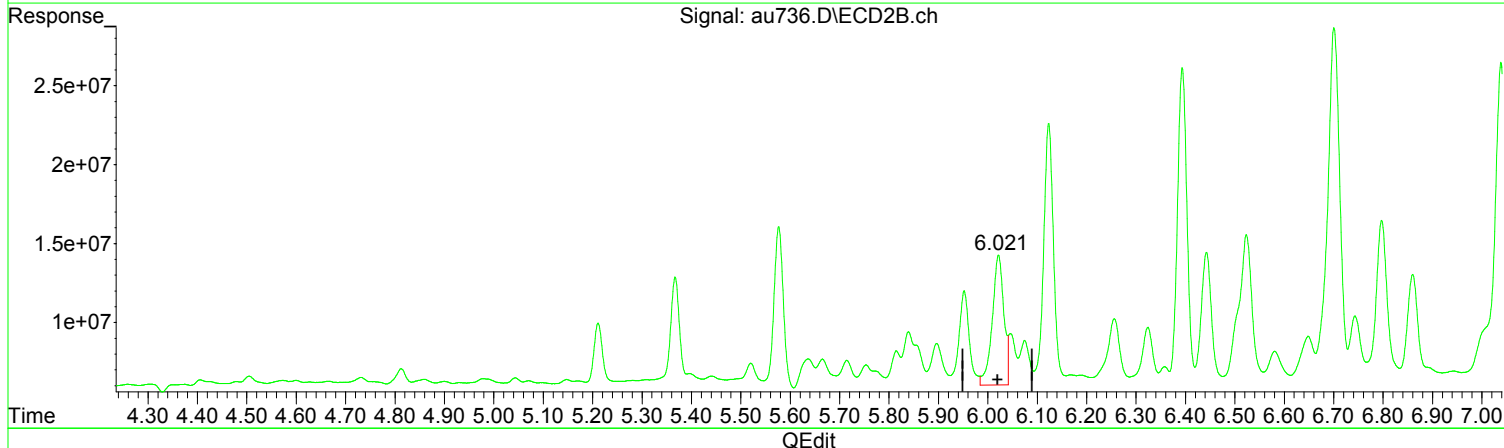
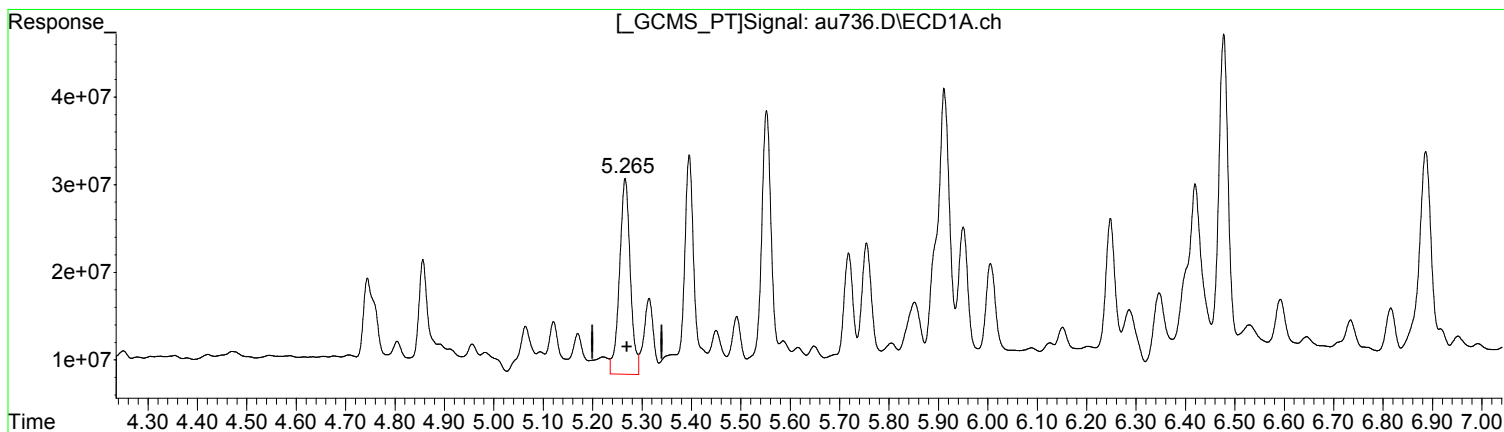
(14) Dieldrin #2 (tcm)  
6.021min 7.928 ug/l m  
response 128350649

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.266min 15.019 ug/l  
response 340061552

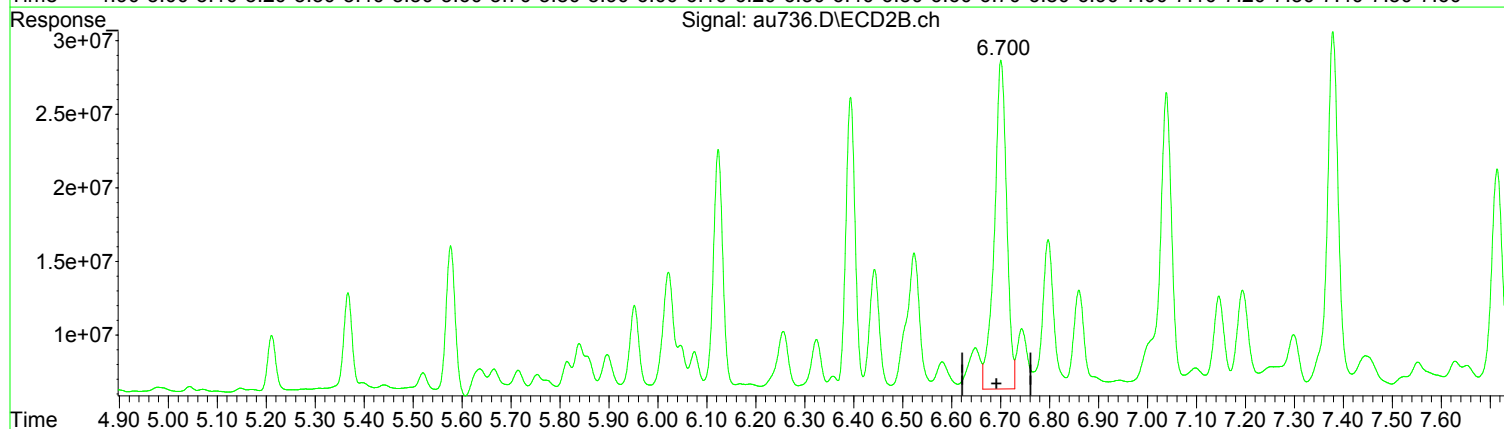
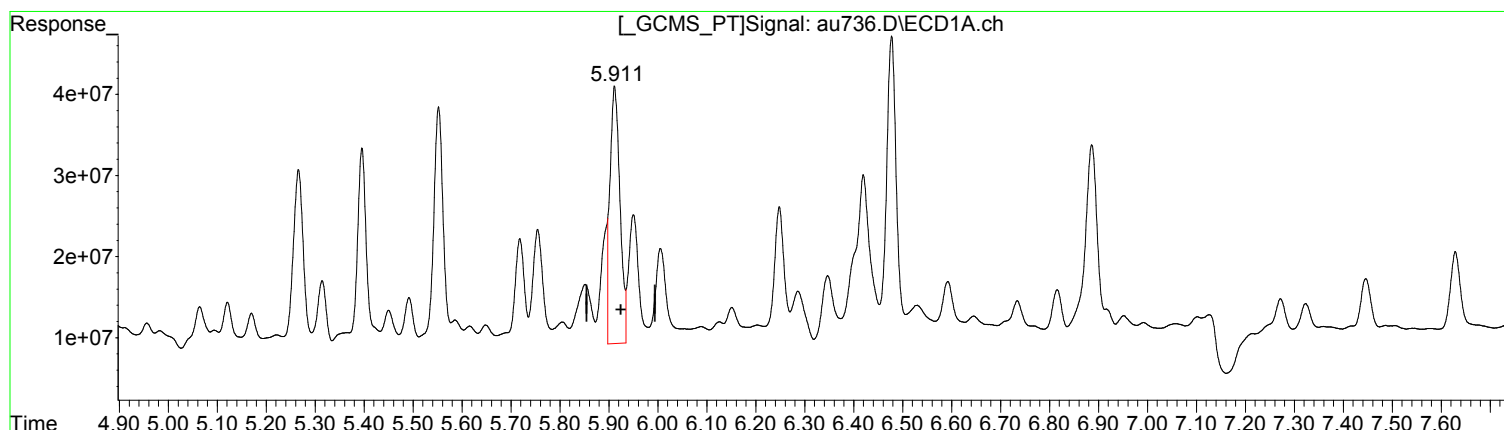
(14) Dieldrin #2 (tcm)  
6.022min 8.276 ug/l  
response 133997574

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(19) 4,4'-DDT (tcm)  
5.911min 24.808 ug/l m  
response 447194195

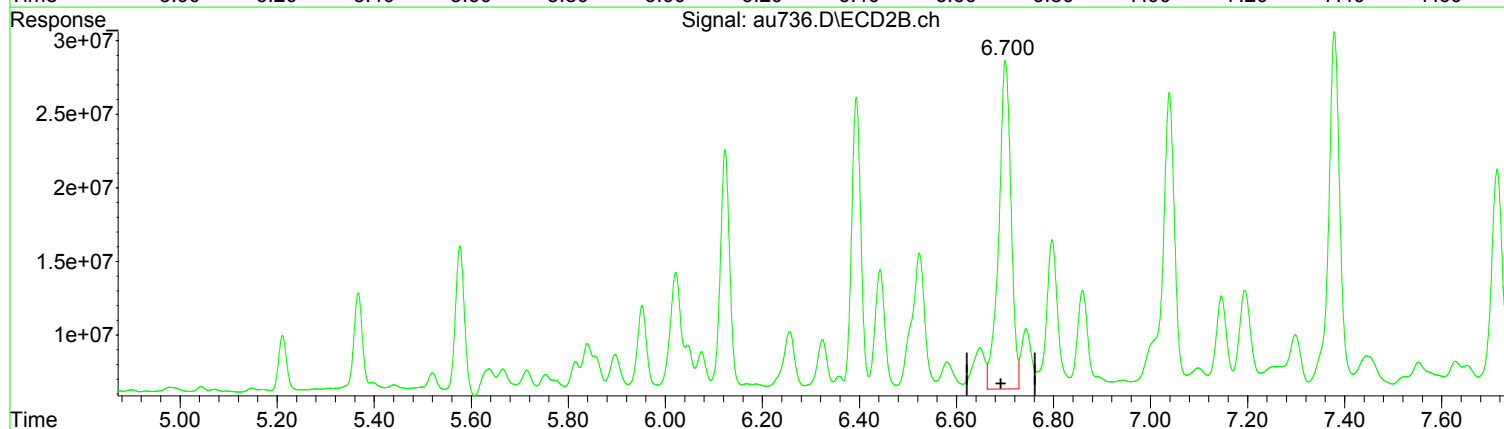
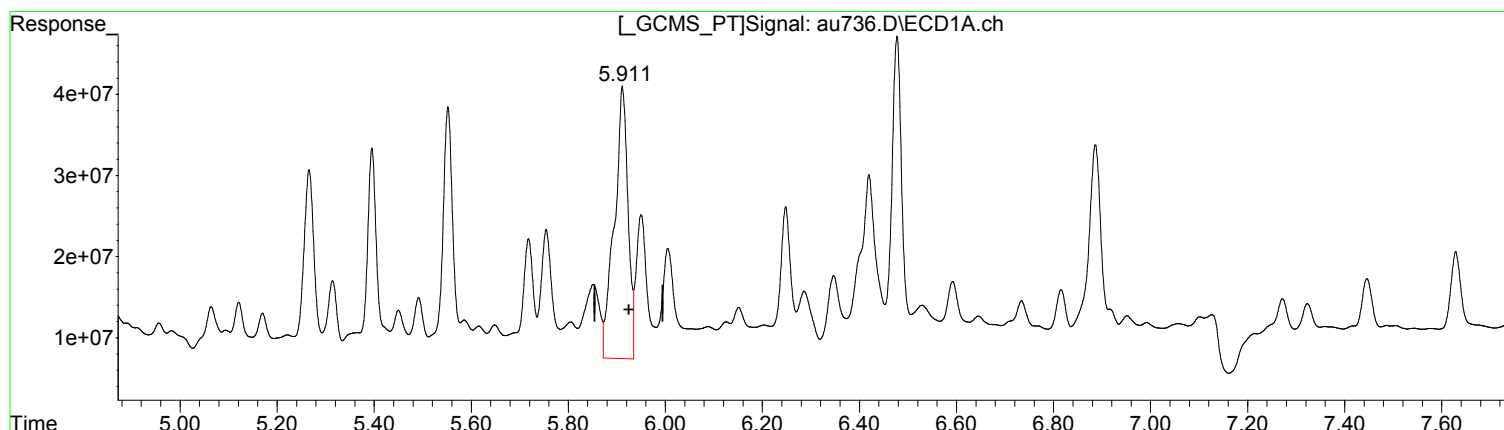
(19) 4,4'-DDT #2 (tcm)  
6.701min 28.559 ug/l  
response 390654570

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.912min 36.223 ug/l  
response 652977413

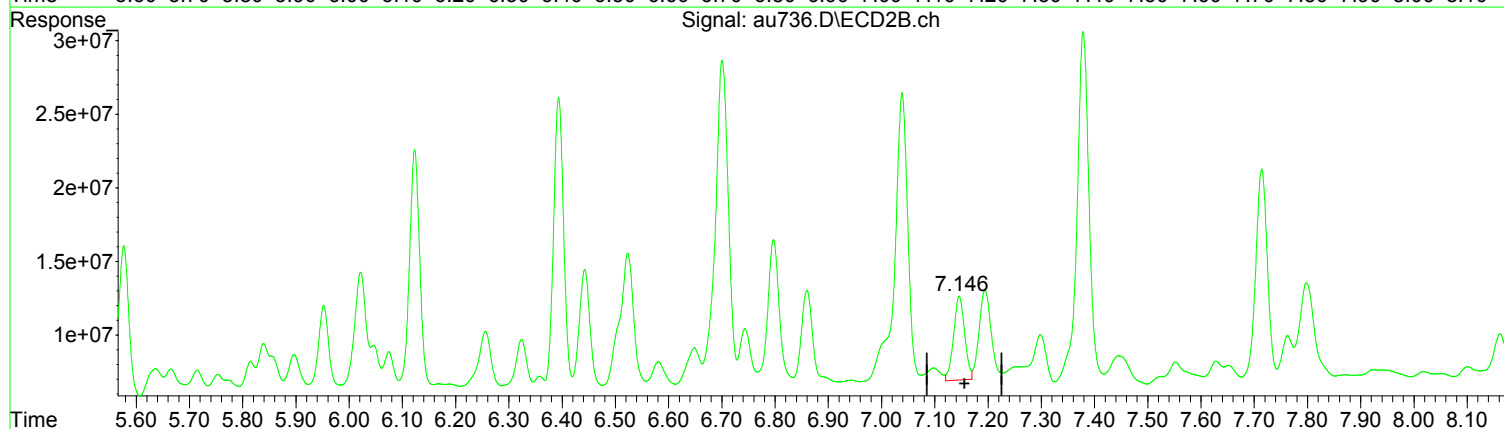
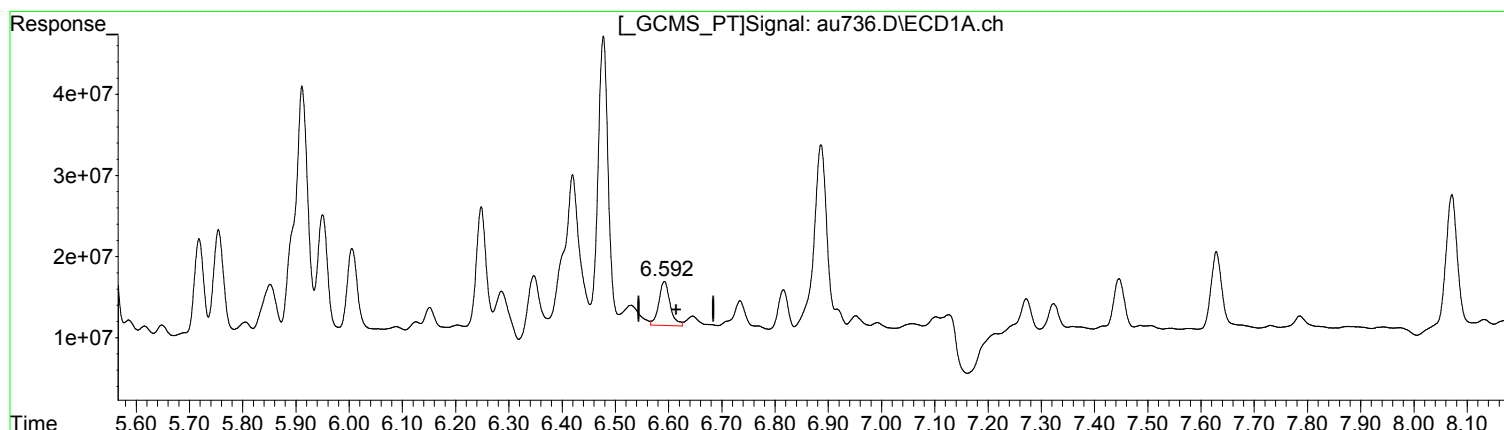
(19) 4,4'-DDT #2 (tcm)  
6.701min 28.559 ug/l  
response 390654570

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)  
6.592min 8.935 ug/l m  
response 79899314

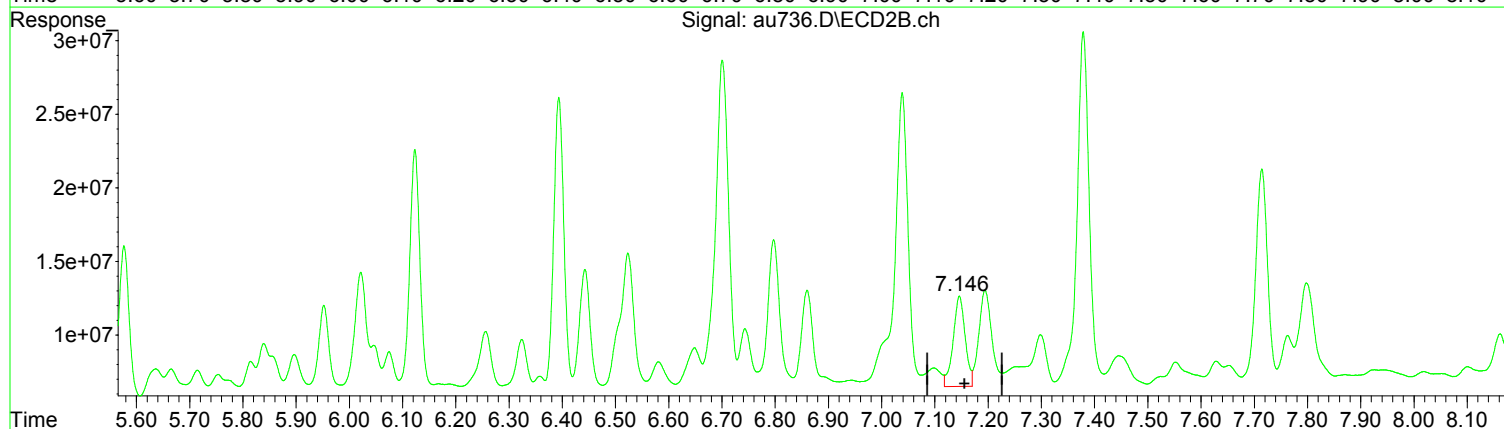
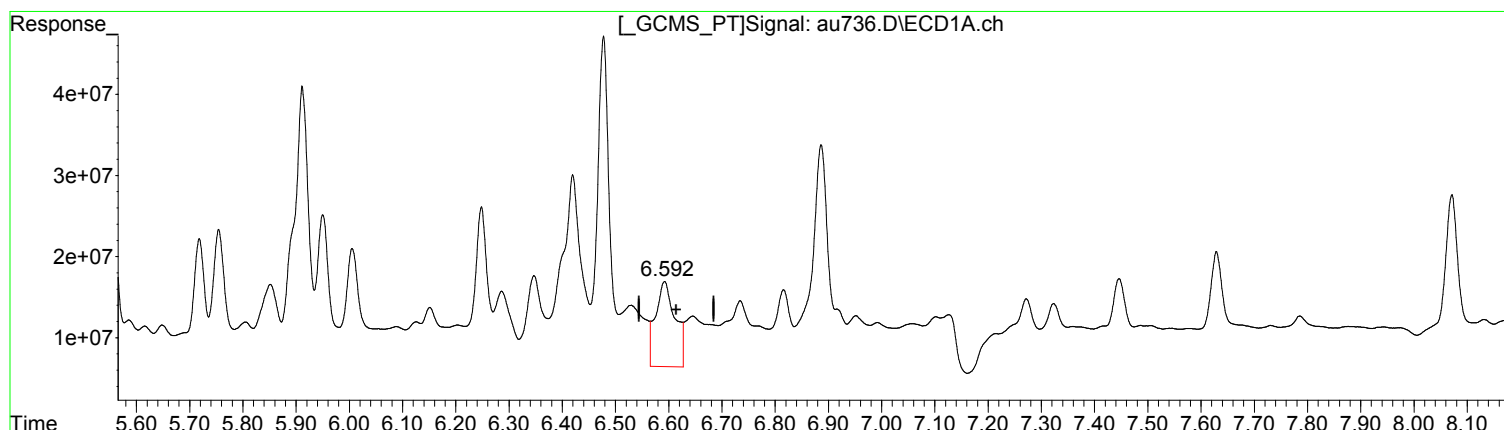
(22) Methoxychlor #2 (tc)  
7.146min 11.045 ug/l m  
response 81965112

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)  
6.592min 29.931 ug/l  
response 267656451

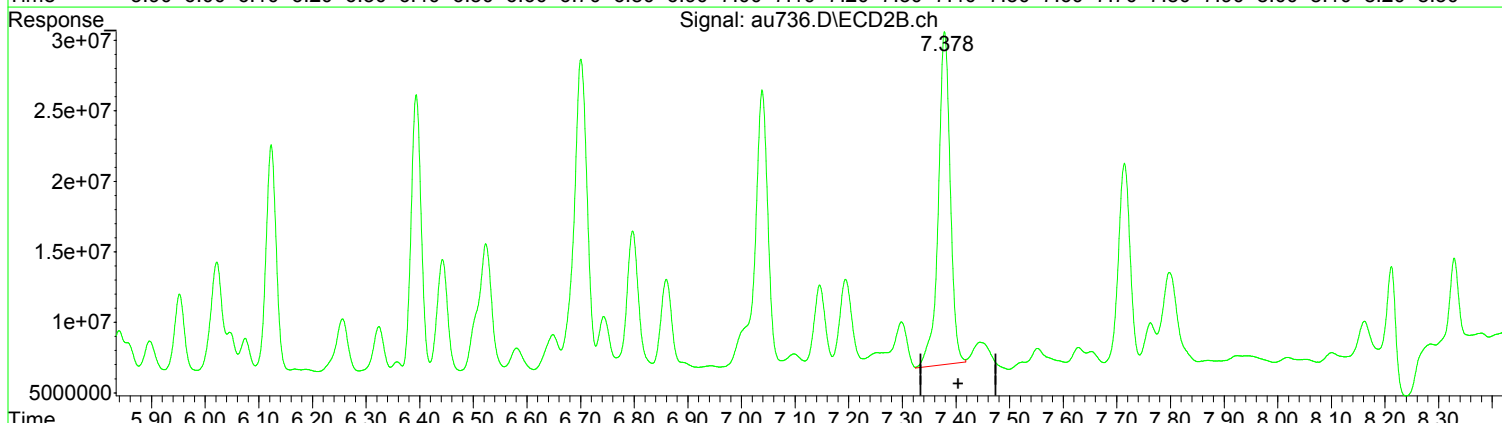
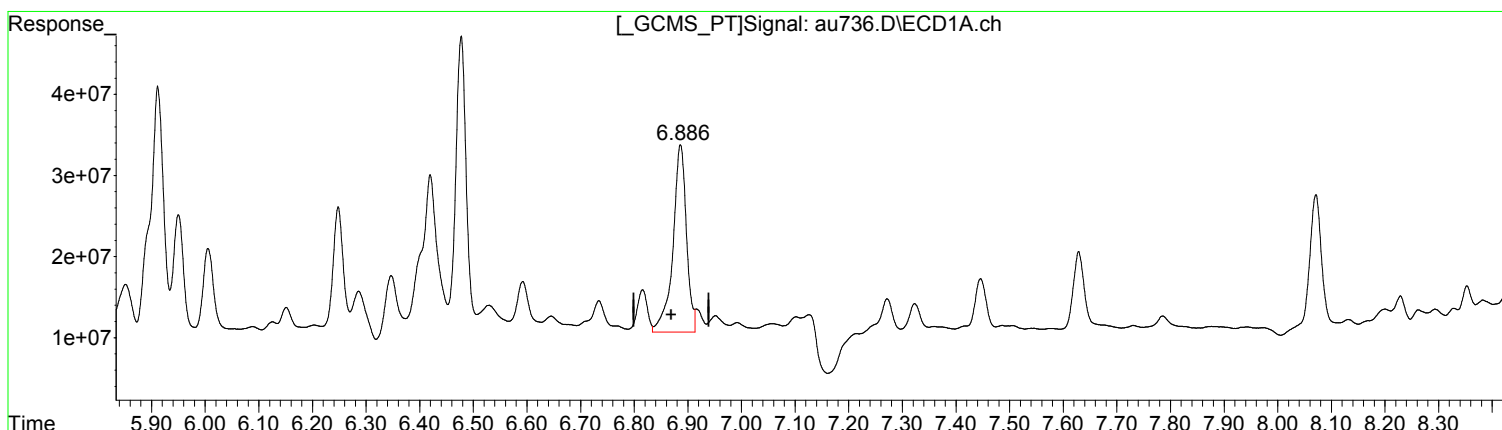
(22) Methoxychlor #2 (tc)  
7.146min 12.925 ug/l  
response 95911362

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(24) Endrin Keton (tc)  
6.886min 20.768 ug/l m  
response 405004057

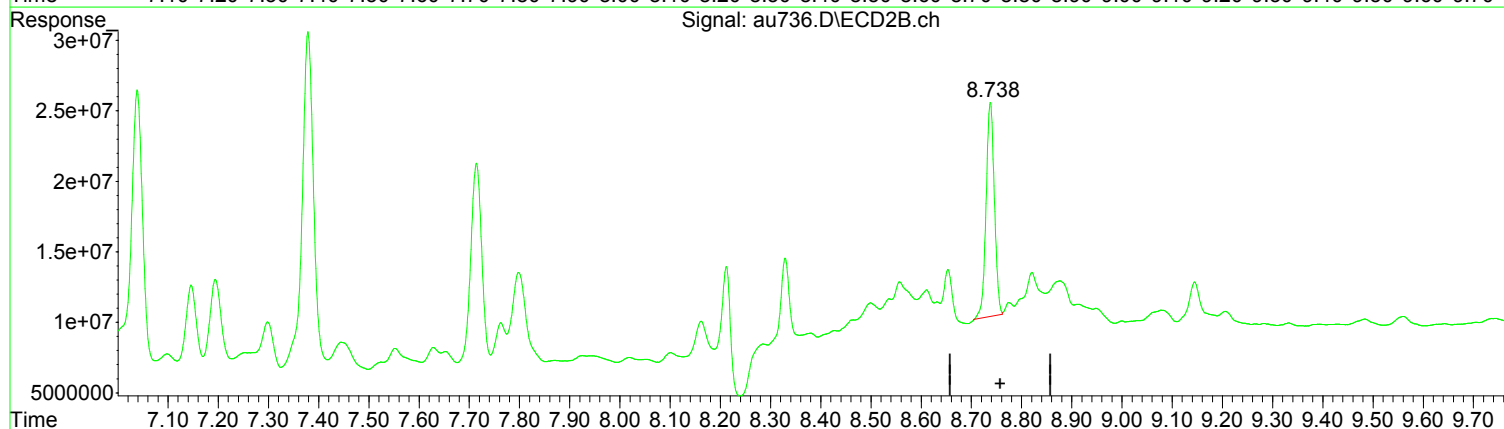
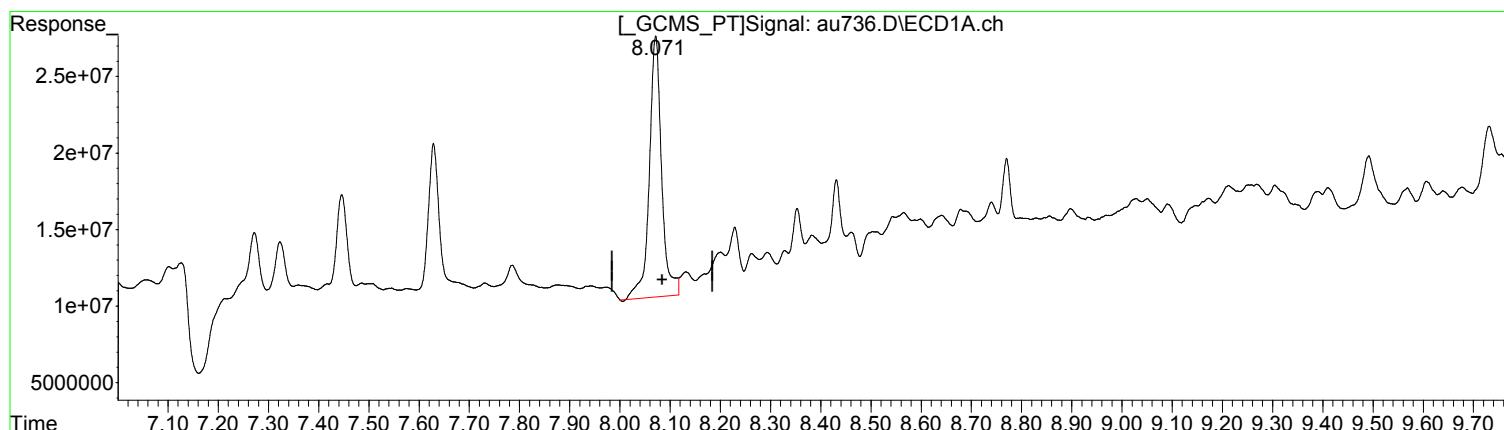
(24) Endrin Keton #2 (tc)  
7.378min 24.074 ug/l m  
response 366599896

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.071min 19.733 ug/l  
response 290135649

(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.738min 15.807 ug/l m  
response 174426490

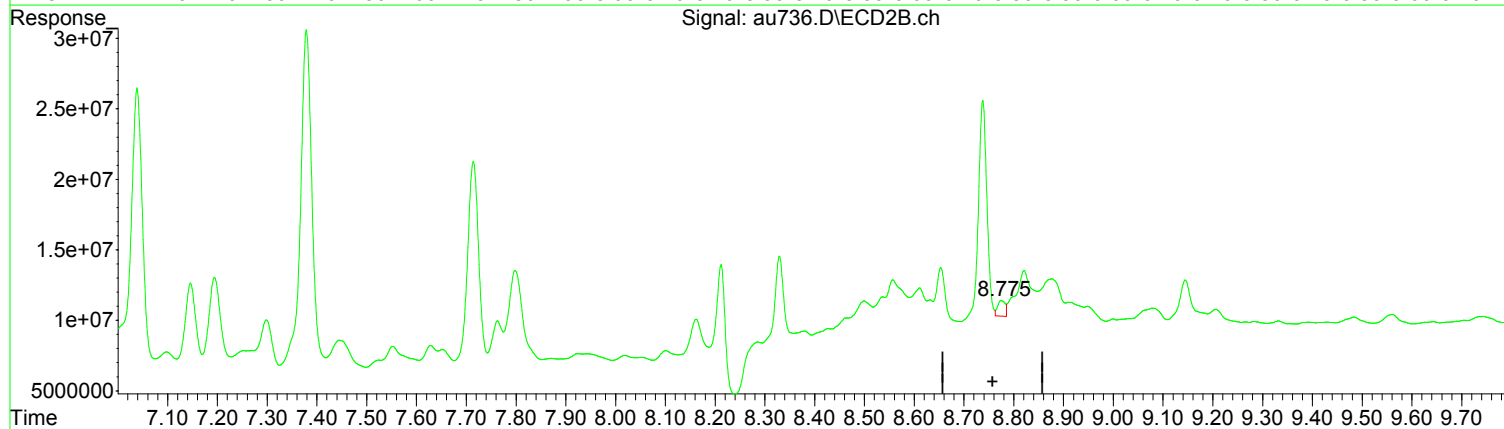
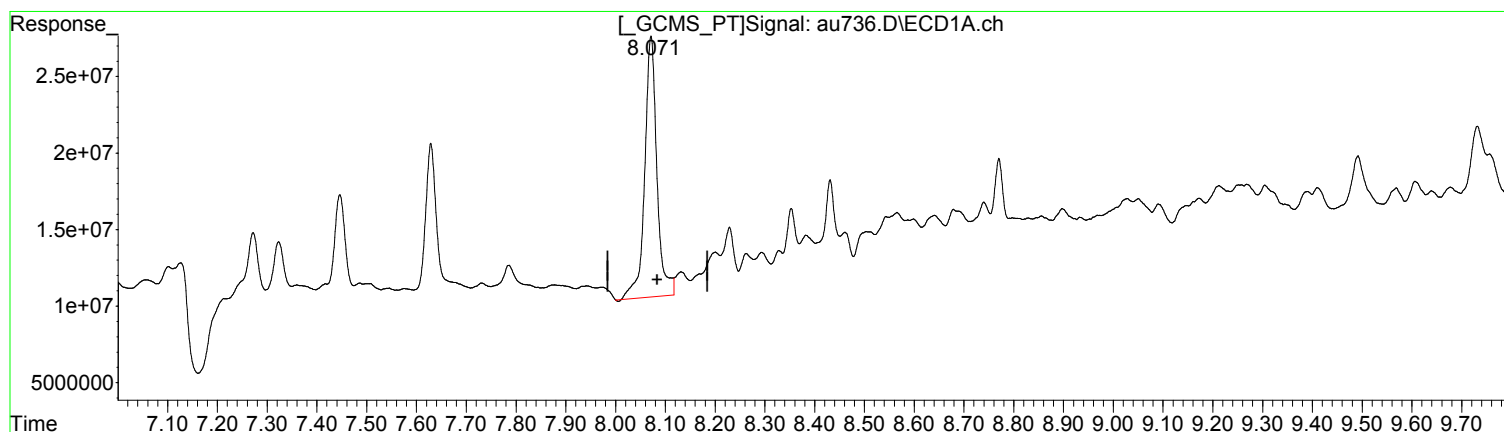
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURR2,Decachlorobiphenyl (S)

8.071min 19.733 ug/l

response 290135649

Manual Integration:

Before

02/27/18

(26) SURR2,Decachlorobiphenyl #2 (S)

8.775min 1.082 ug/l

response 11942641

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au736.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 7:35 pm  
 Operator : m.pedro  
 Sample : r1801453-004|5.0  
 Misc : 308673  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:03:38 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

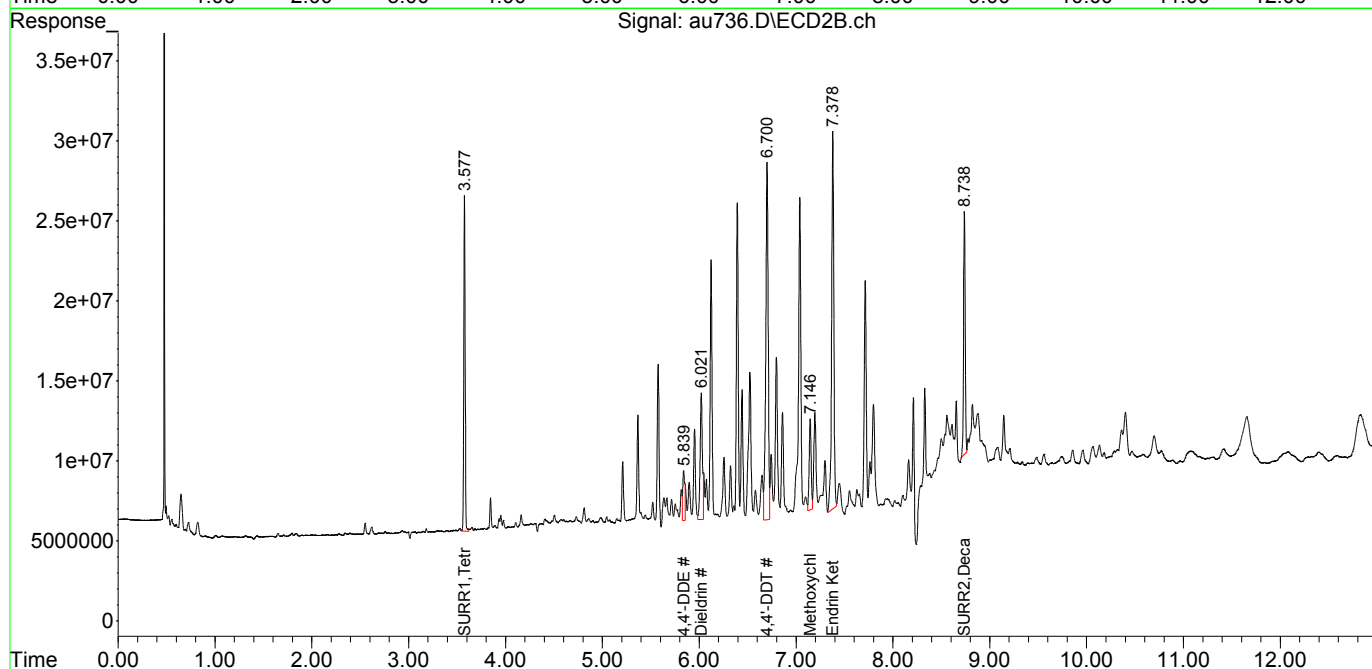
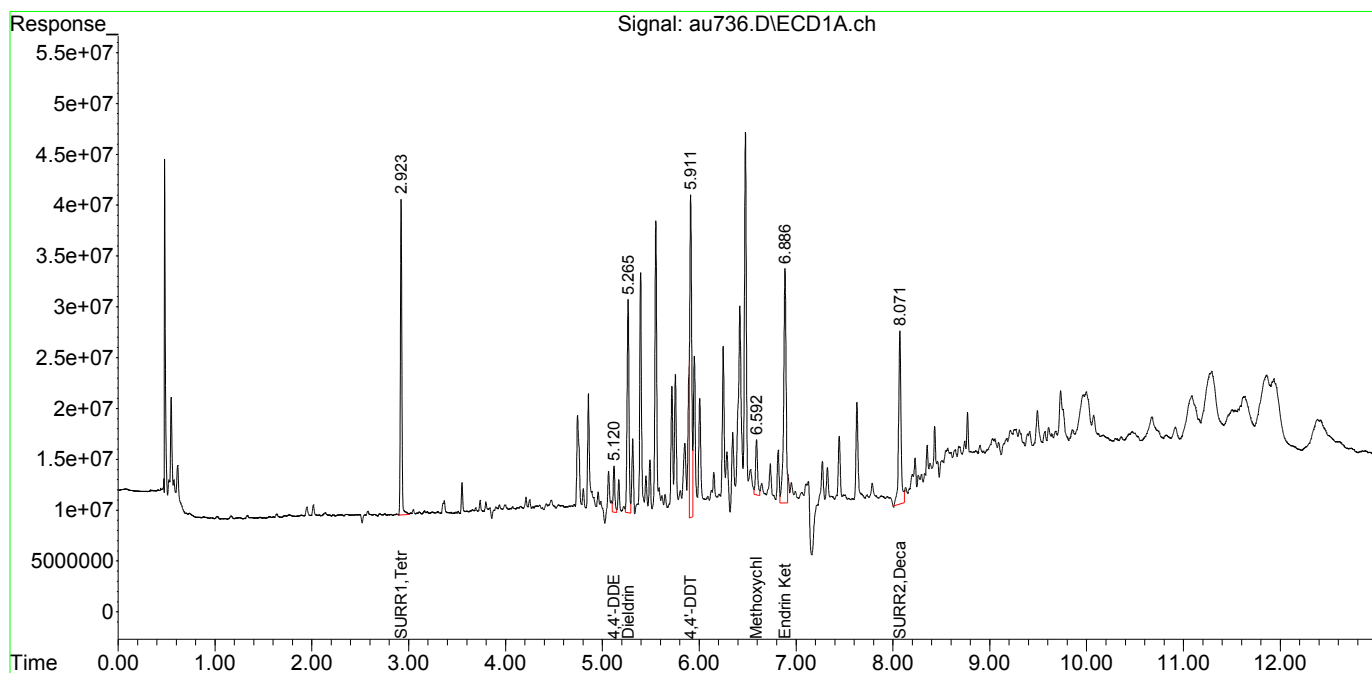
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.577	311.0E6	202.0E6	13.343	13.101
Spiked Amount	100.000 Range	30 - 150	Recovery	=	13.34%#	13.10%#
26) S SURR2,Dec...	8.071	8.738	290.1E6	174.4E6	19.733	15.807m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	19.73%#	15.81%#
Target Compounds						
13) tc 4,4'-DDE	5.120	5.839	53794577	42590783	2.575m	2.824m
14) tcm Dieldrin	5.265	6.021	291.3E6	128.4E6	12.865m	7.928m#
19) tcm 4,4'-DDT	5.911	6.701	447.2E6	390.7E6	24.808m	28.559
22) tc Methoxychlor	6.592	7.146	79899314	81965112	8.935m	11.045m
24) tc Endrin Keton	6.886	7.378	405.0E6	366.6E6	20.768m	24.074m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au736.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:35 pm  
Operator : m.pedro  
Sample : r1801453-004|5.0  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:38 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

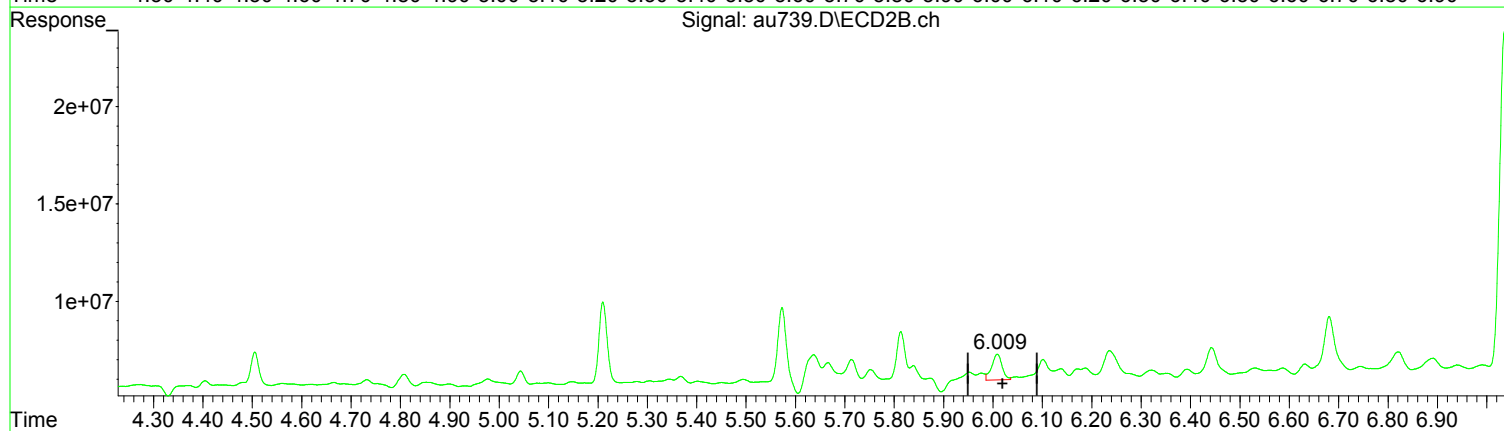
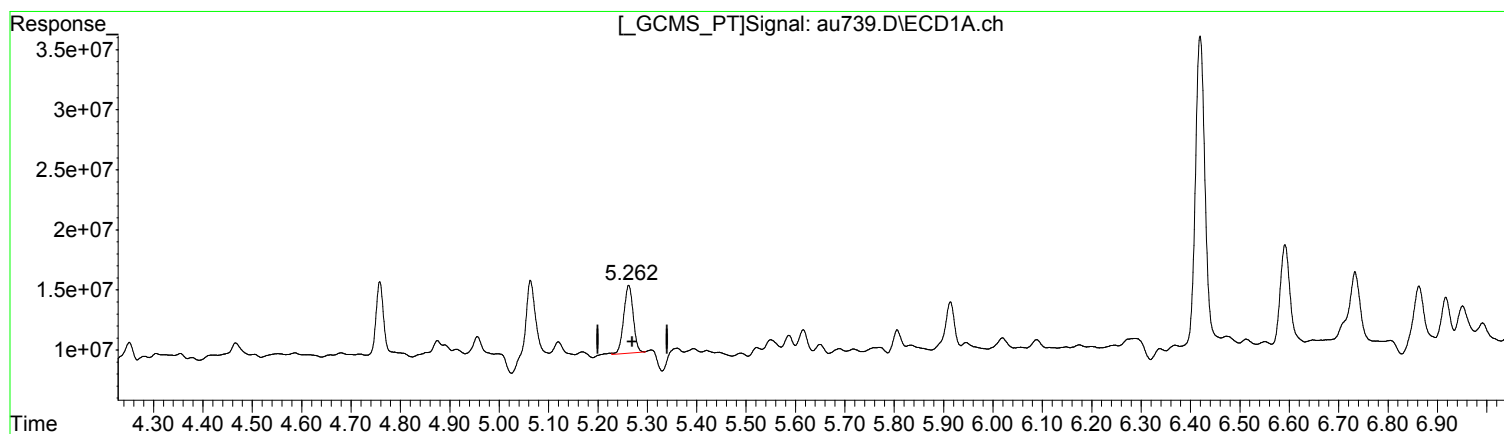
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(14) Dieldrin (tcm)  
5.262min 3.320 ug/l m  
response 75169782

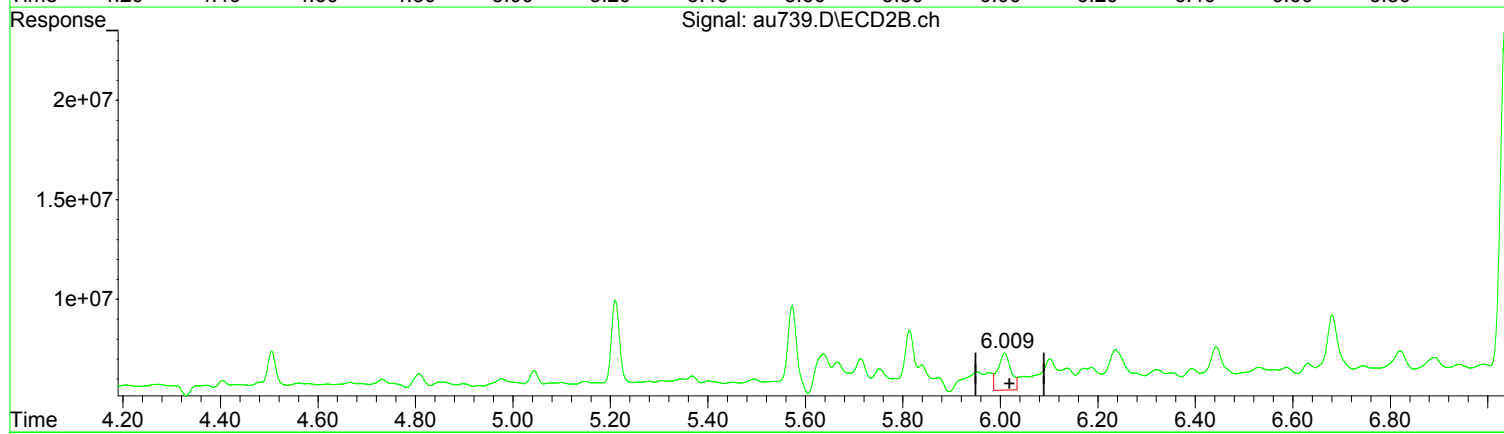
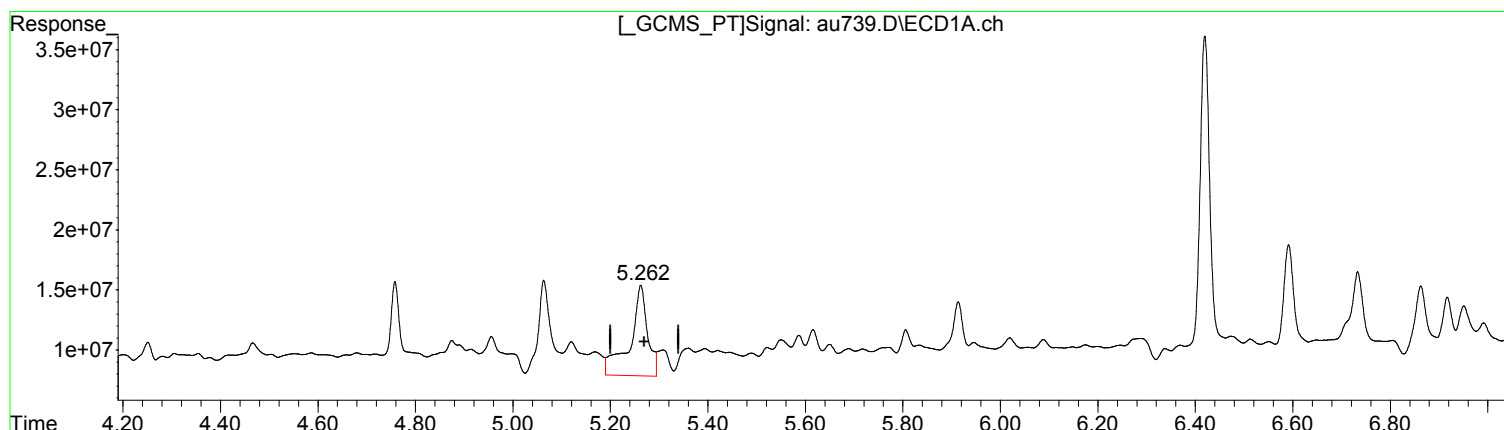
(14) Dieldrin #2 (tcm)  
6.009min 1.183 ug/l m  
response 19152945

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.263min 8.365 ug/l  
response 189390091

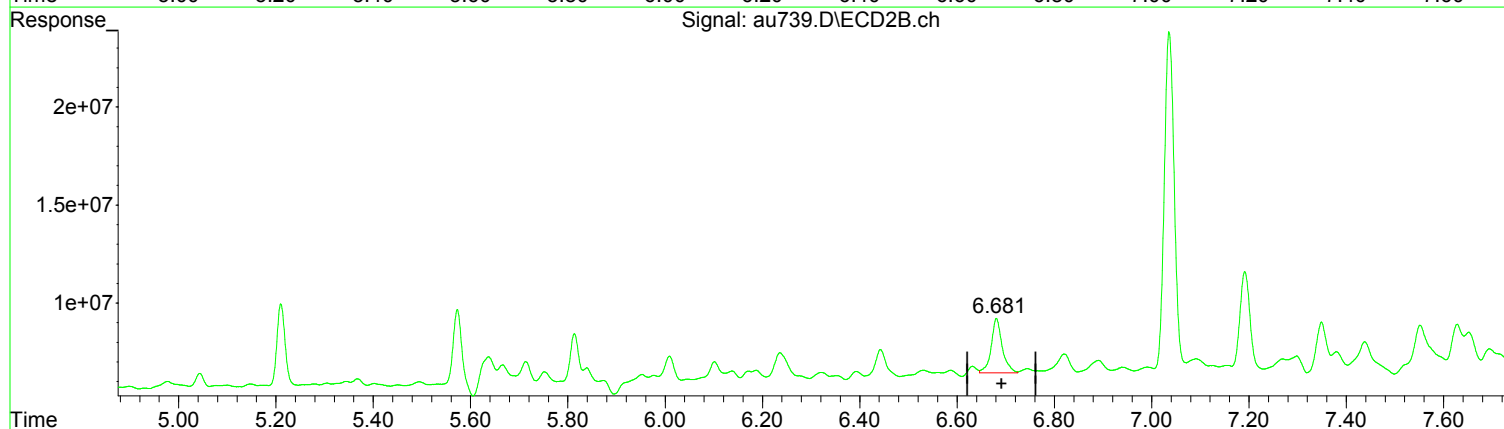
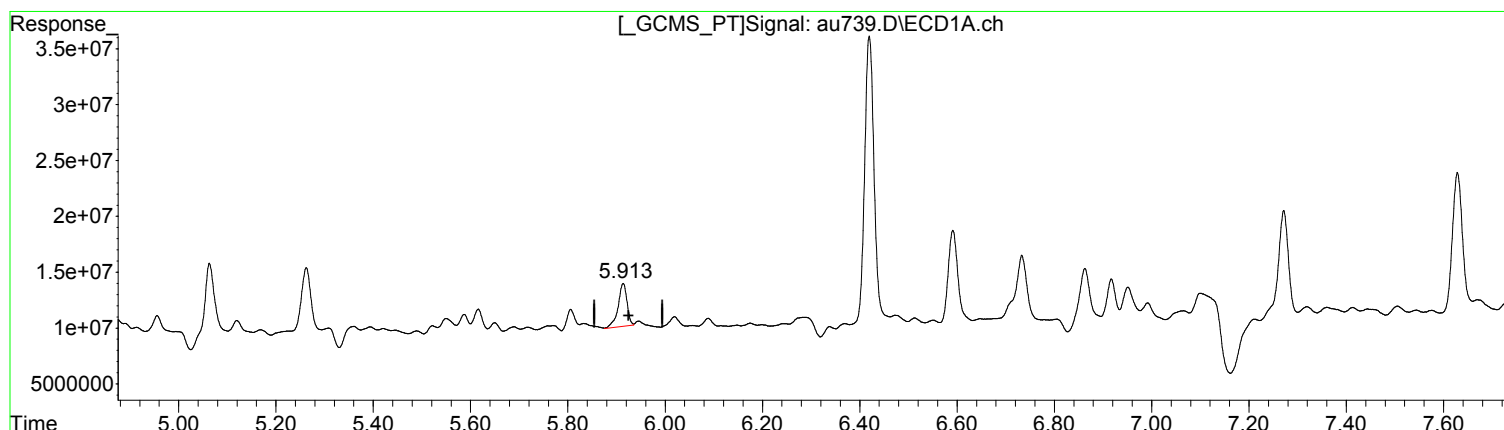
(14) Dieldrin #2 (tcm)  
6.009min 2.132 ug/l  
response 34519823

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.913min 2.676 ug/l m  
response 48232135

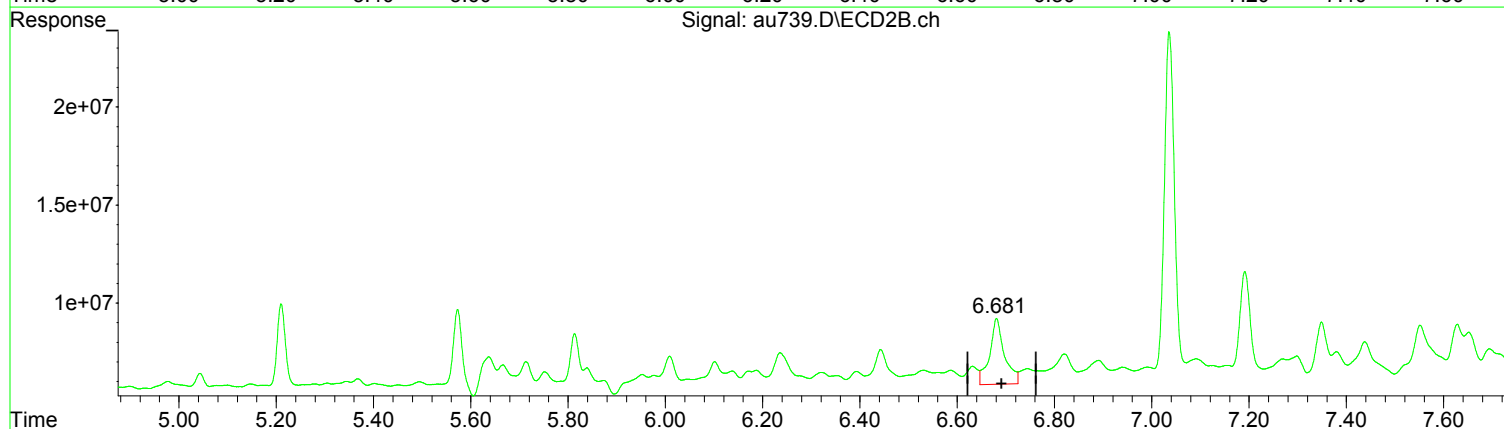
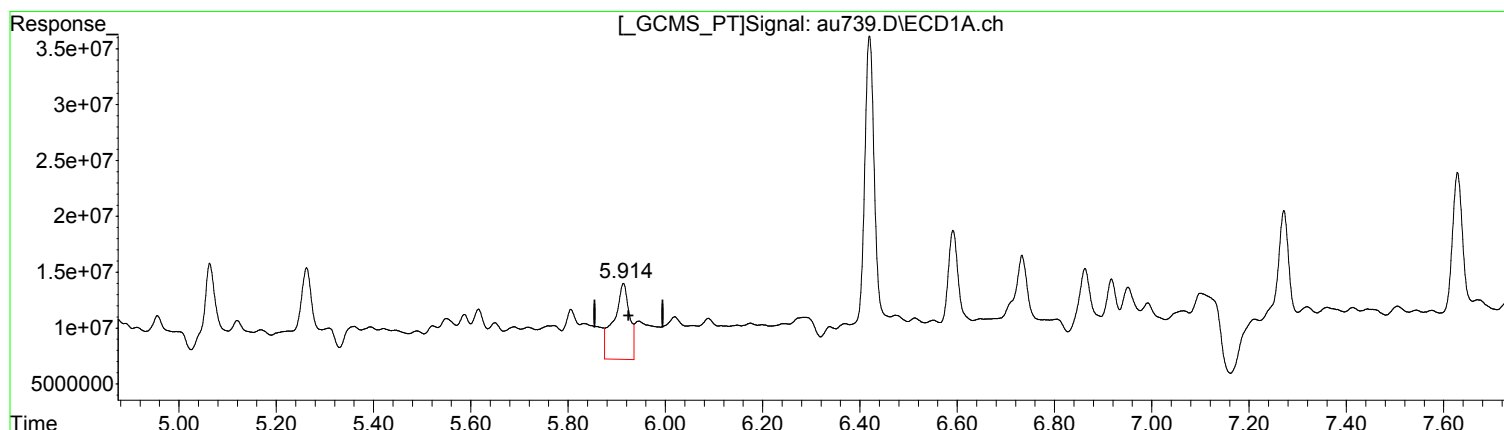
(19) 4,4'-DDT #2 (tcm)  
6.681min 3.239 ug/l m  
response 44300672

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.914min 8.557 ug/l  
response 154254709

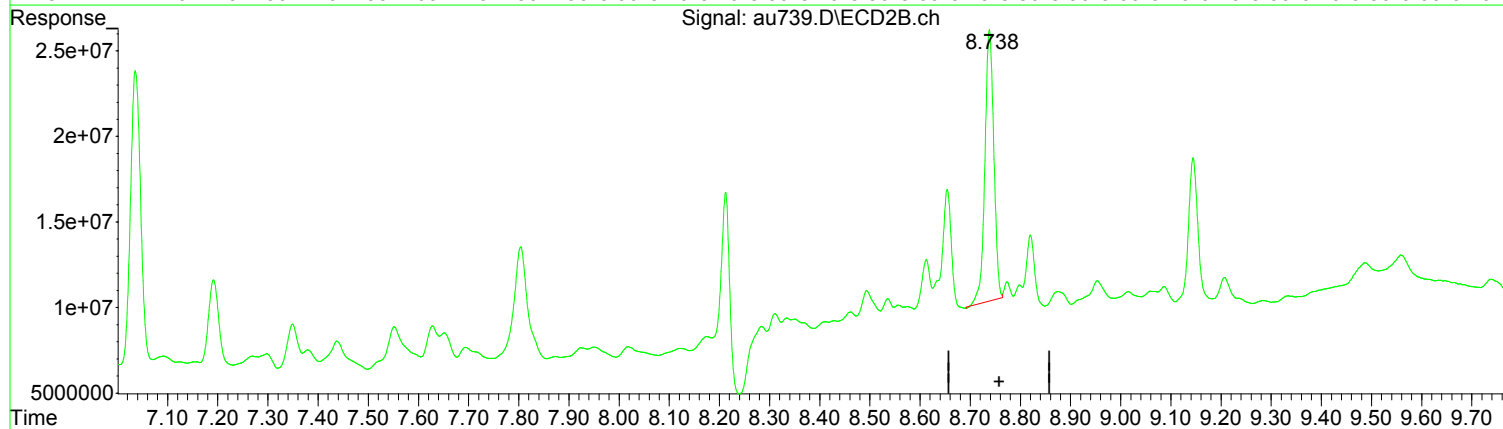
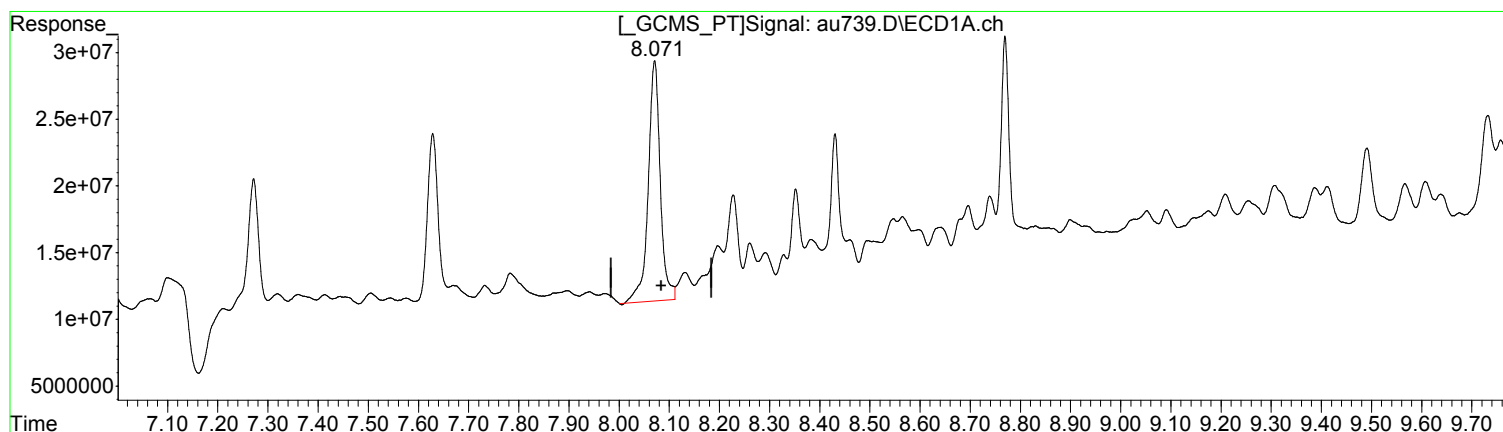
(19) 4,4'-DDT #2 (tcm)  
6.681min 5.202 ug/l  
response 71152691

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.071min 20.501 ug/l  
response 301435821

(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.738min 17.727 ug/l m  
response 195615201

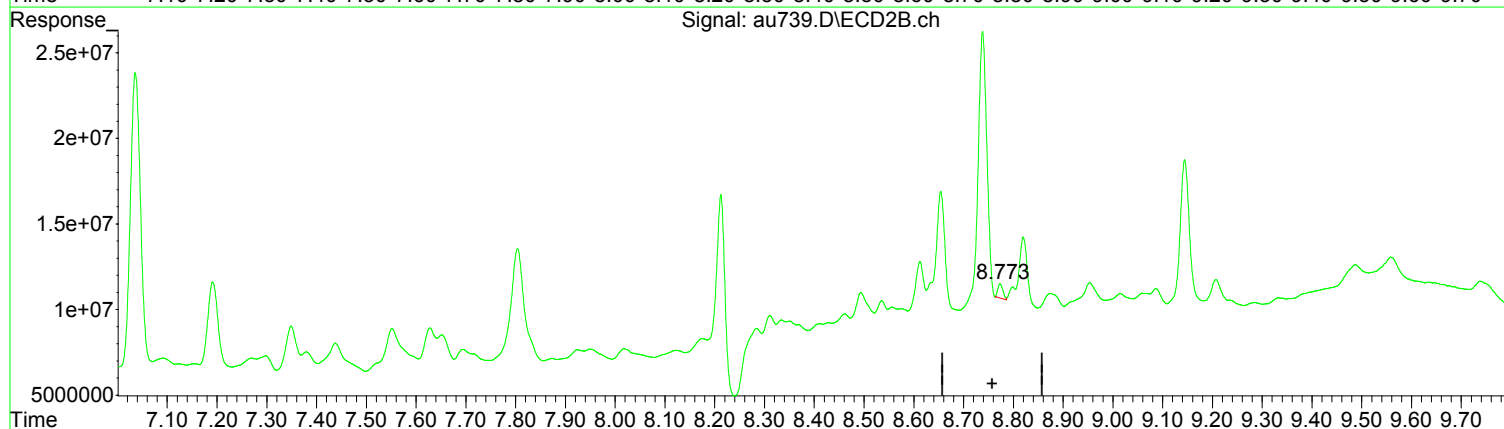
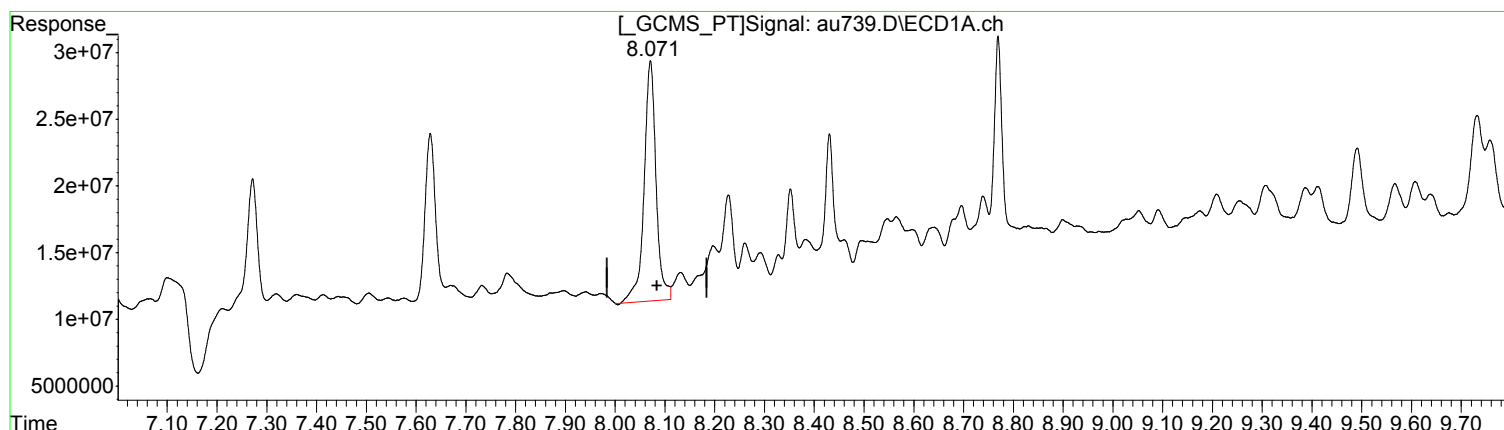
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.071min 20.501 ug/l  
response 301435821

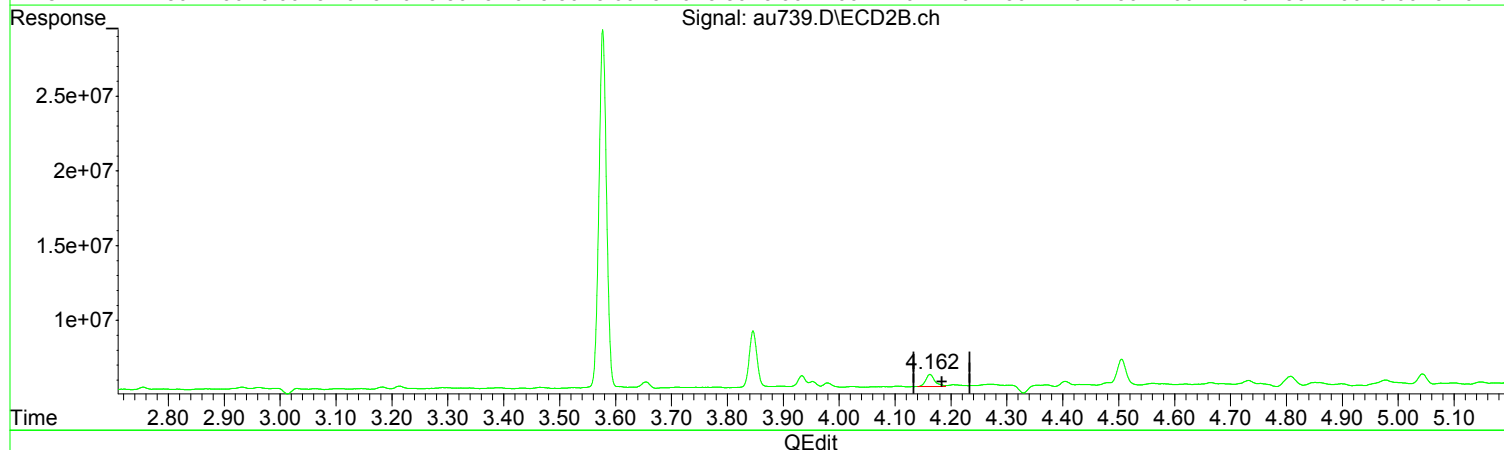
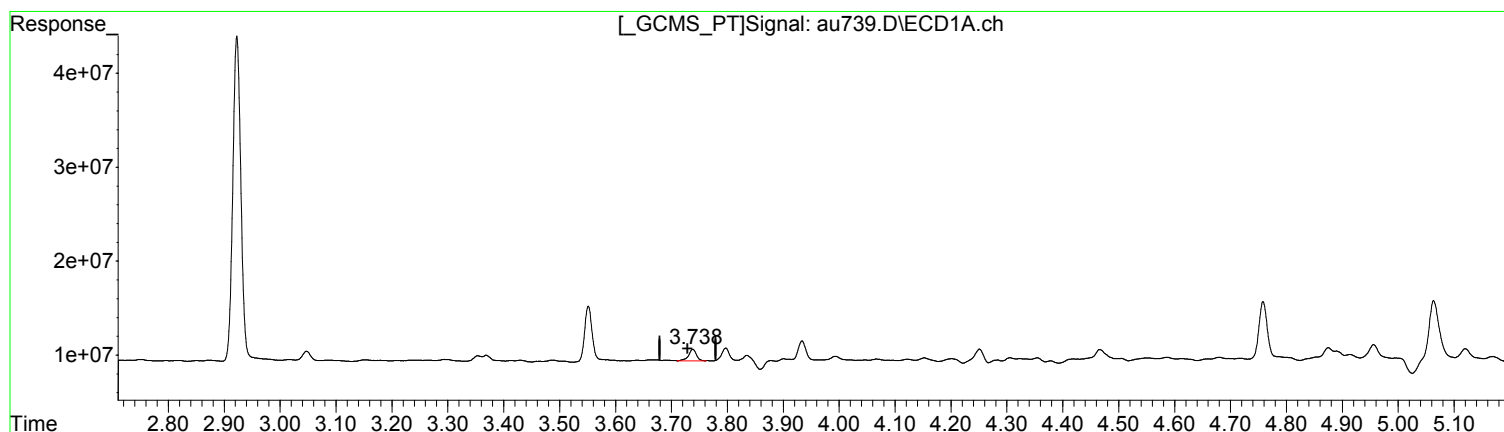
(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.774min 0.541 ug/l  
response 5971413

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.738min 0.433 ug/l m  
response 11812816

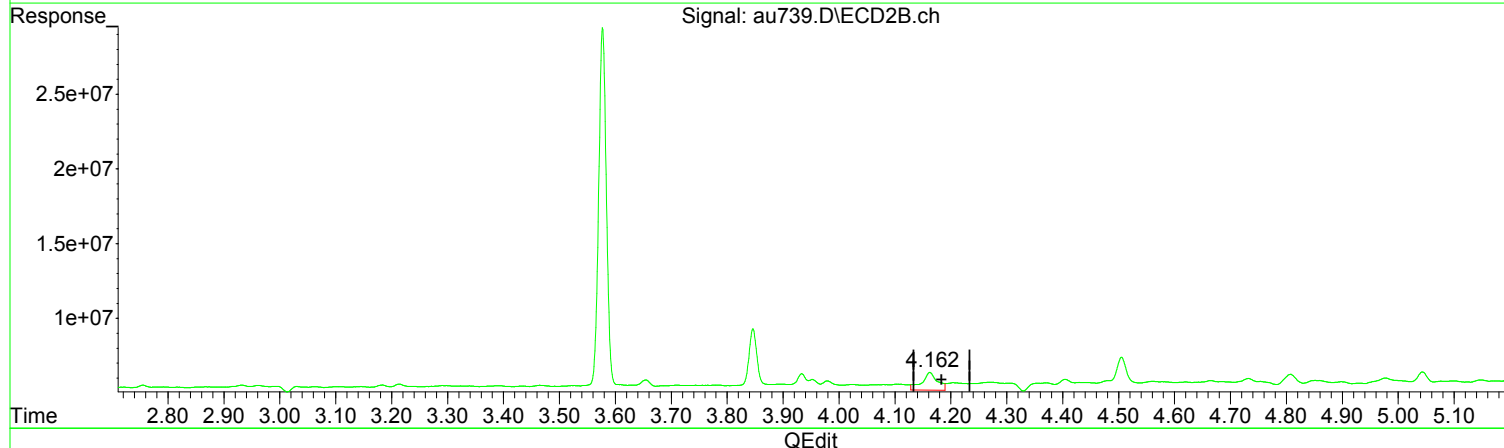
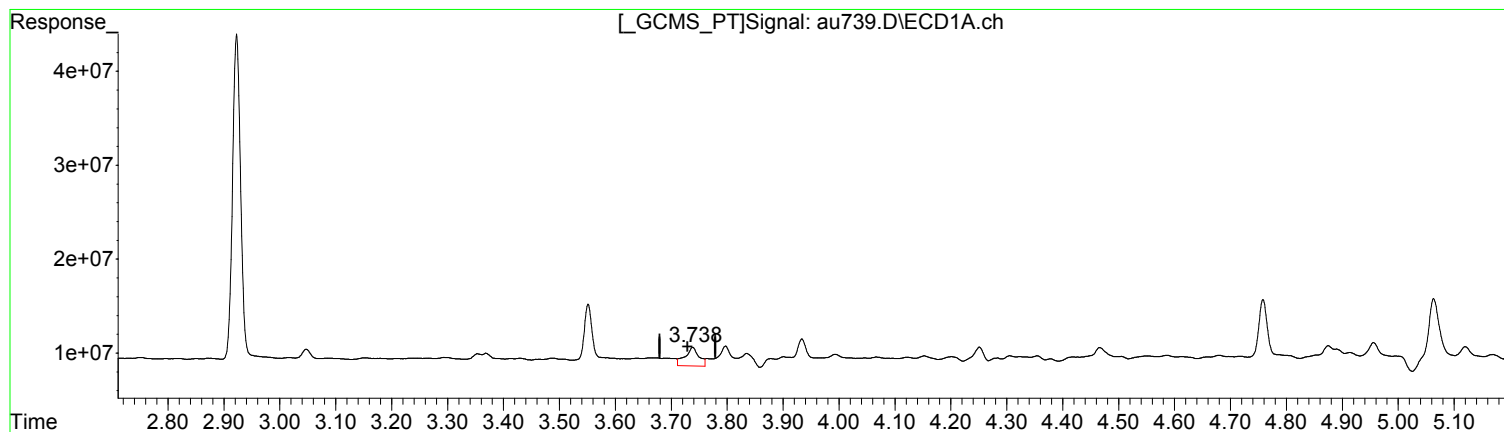
(4) gamma-BHC (L #2 (tcm)  
4.162min 0.478 ug/l m  
response 9343616

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.738min 1.255 ug/l  
response 34230064

(4) gamma-BHC (L #2 (tcm)  
4.163min 1.172 ug/l  
response 22897315

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au739.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 8:29 pm  
 Operator : m.pedro  
 Sample : r1801453-012|5.0  
 Misc : 308673  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:03:50 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

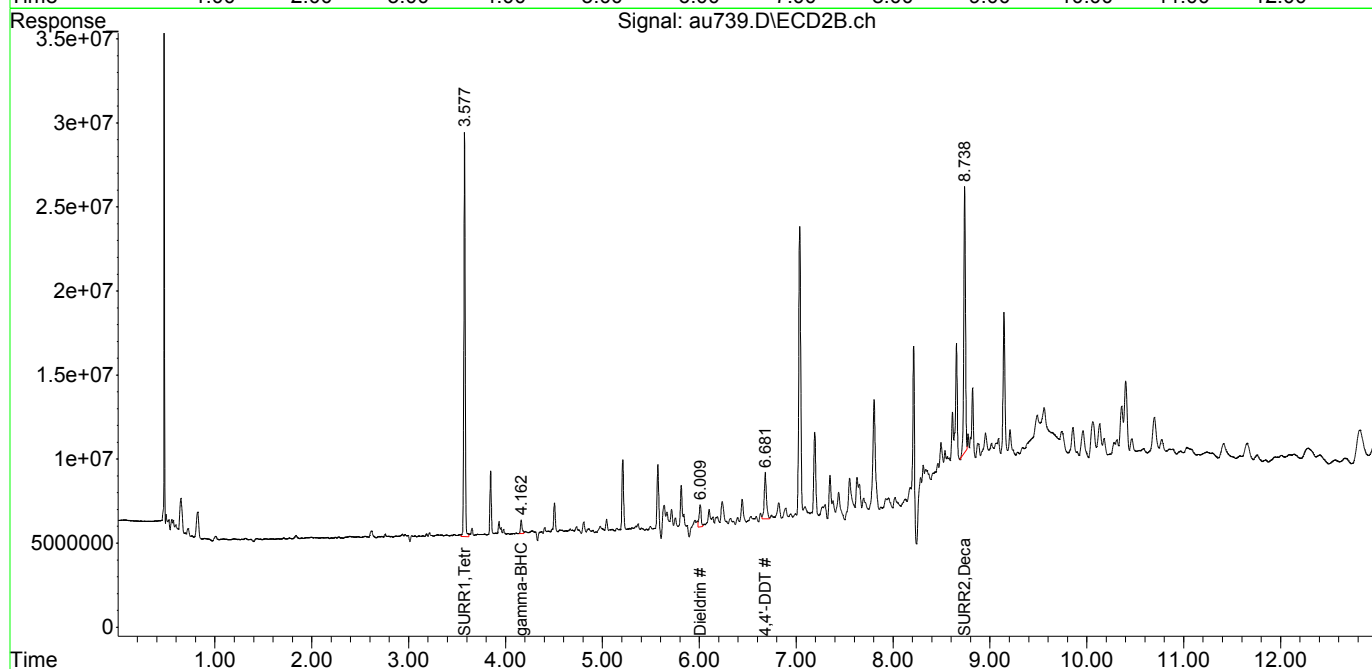
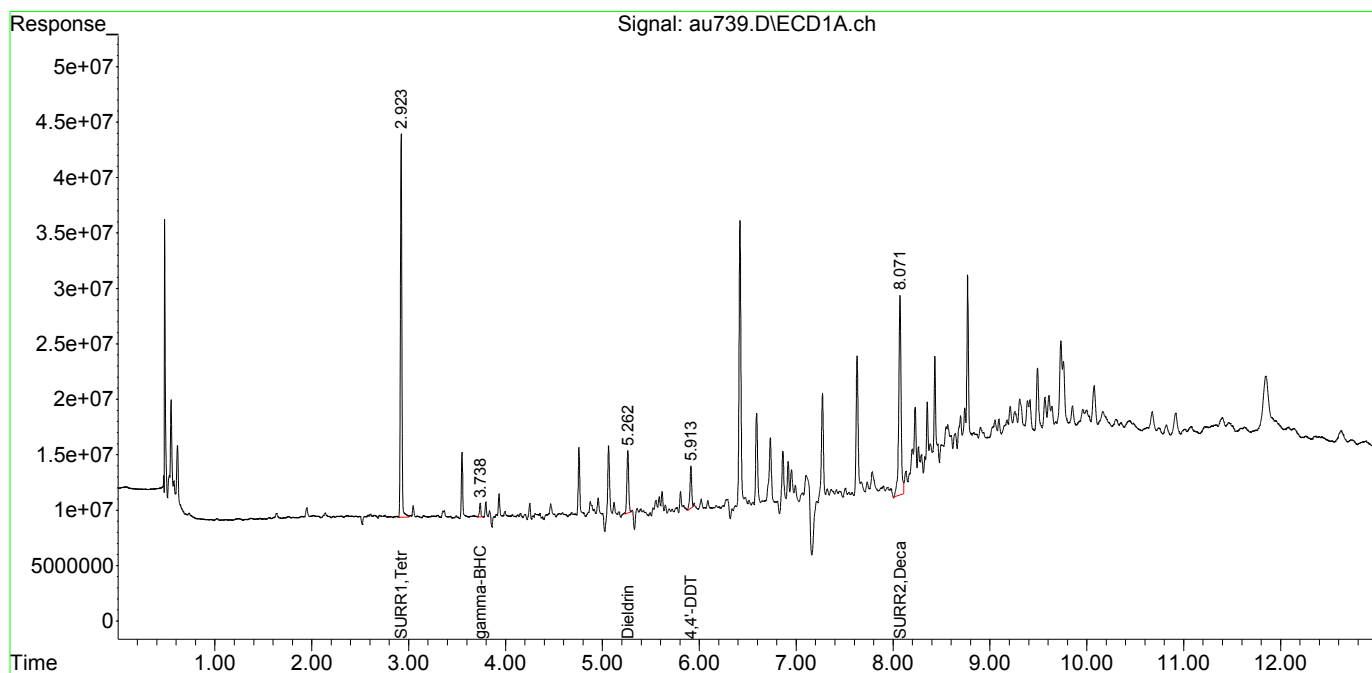
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.577	352.3E6	232.9E6	15.116	15.100
Spiked Amount	100.000 Range	30 - 150	Recovery	=	15.12%#	15.10%#
26) S SURR2,Dec...	8.071	8.738	301.4E6	195.6E6	20.501	17.727m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	20.50%#	17.73%#
Target Compounds						
4) tcm gamma-BHC (L	3.738	4.162	11812816	9343616	0.433m	0.478m
14) tcm Dieldrin	5.262	6.009	75169782	19152945	3.320m	1.183m#
19) tcm 4,4'-DDT	5.913	6.681	48232135	44300672	2.676m	3.239m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au739.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:29 pm  
Operator : m.pedro  
Sample : r1801453-012|5.0  
Misc : 308673  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:50 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

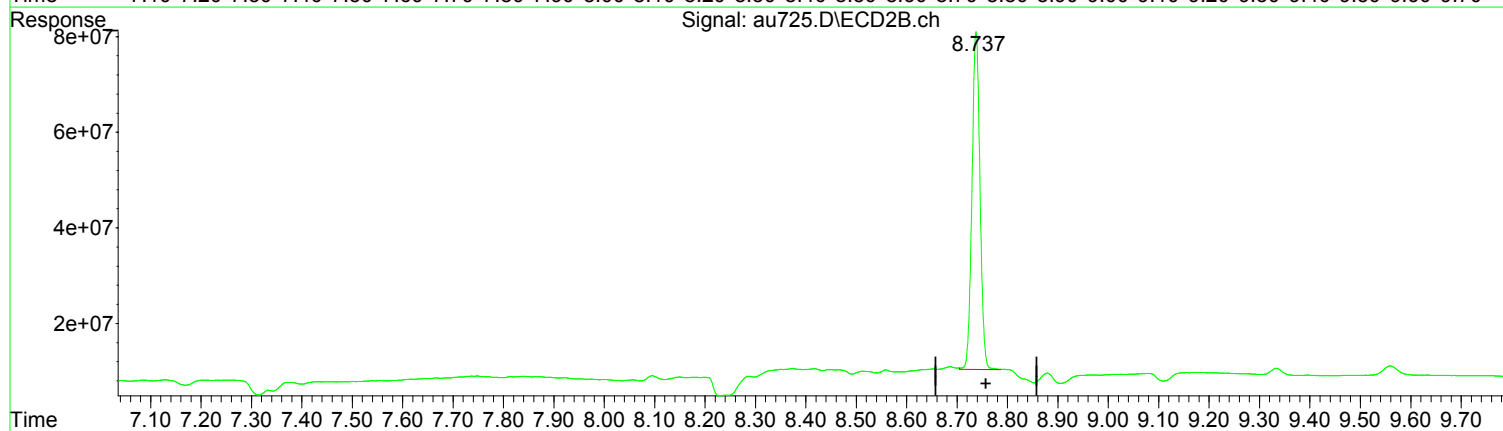
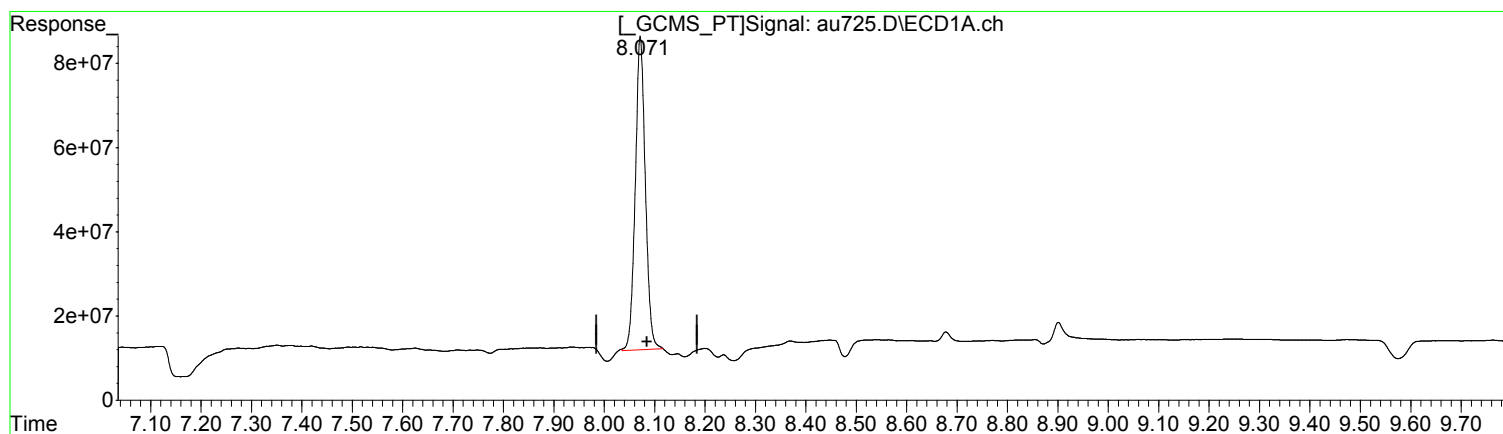
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au725.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 4:16 pm  
Operator : m.pedro  
Sample : rq1801536-01  
Misc : 308673  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:32 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.071min 70.166 ug/l m  
response 1031684119

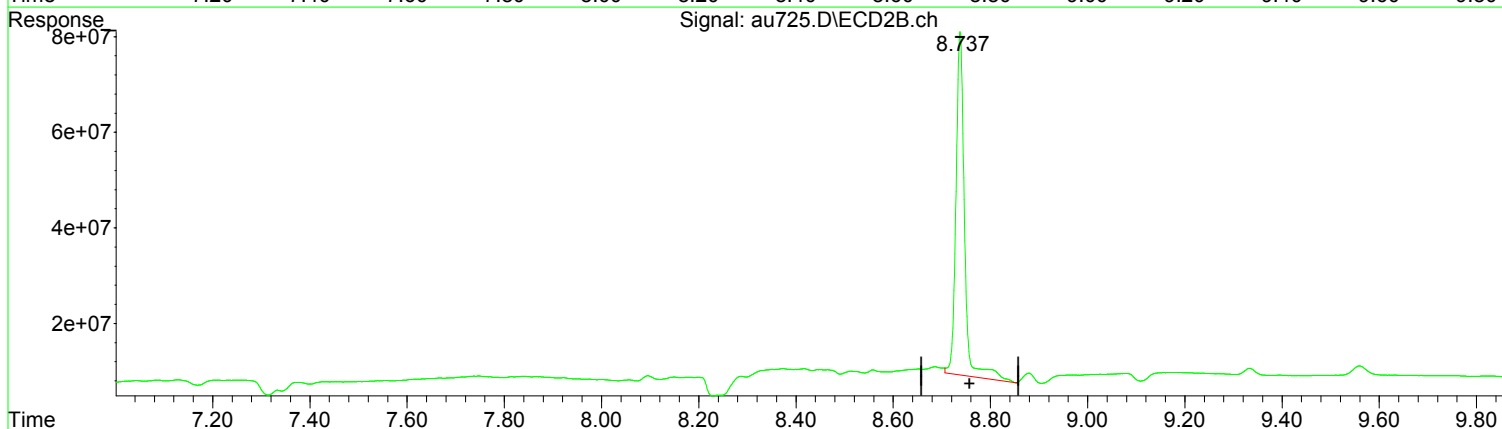
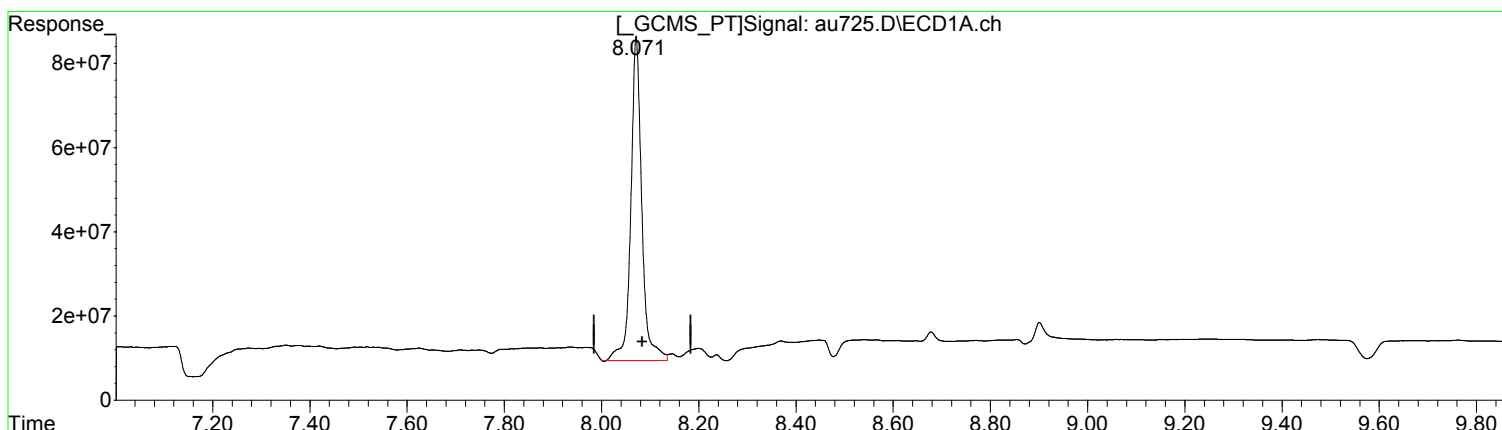
(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.737min 70.797 ug/l m  
response 781251007

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au725.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 4:16 pm  
Operator : m.pedro  
Sample : rq1801536-01  
Misc : 308673  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:32 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.071min 81.806 ug/l  
response 1202824720

(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.738min 80.504 ug/l  
response 888363779

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au725.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 4:16 pm  
 Operator : m.pedro  
 Sample : rq1801536-01  
 Misc : 308673  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:02:32 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.922	3.577	766.6E6	501.6E6	32.893	32.523
Spiked Amount	100.000 Range	30 - 150	Recovery	=	32.89%	32.52%
26) S SURR2,Dec...	8.071	8.737	1031.7E6	781.3E6	70.166m	70.797m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	70.17%	70.80%
Target Compounds						
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

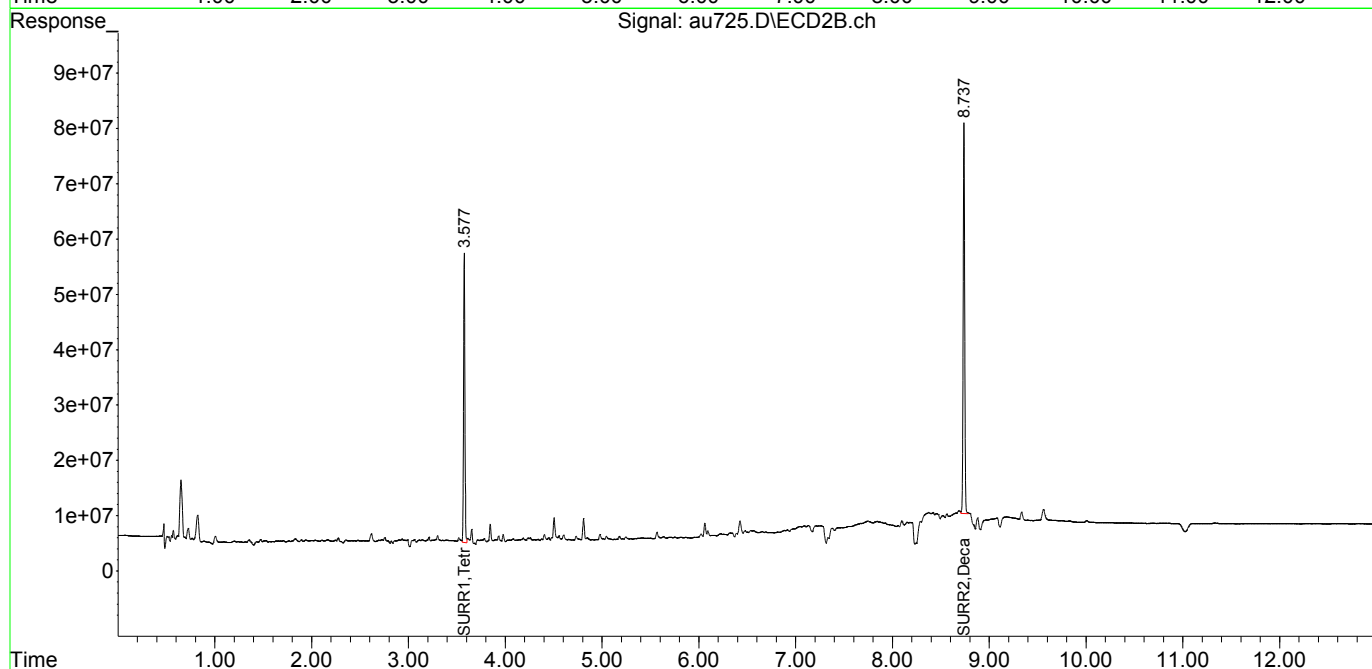
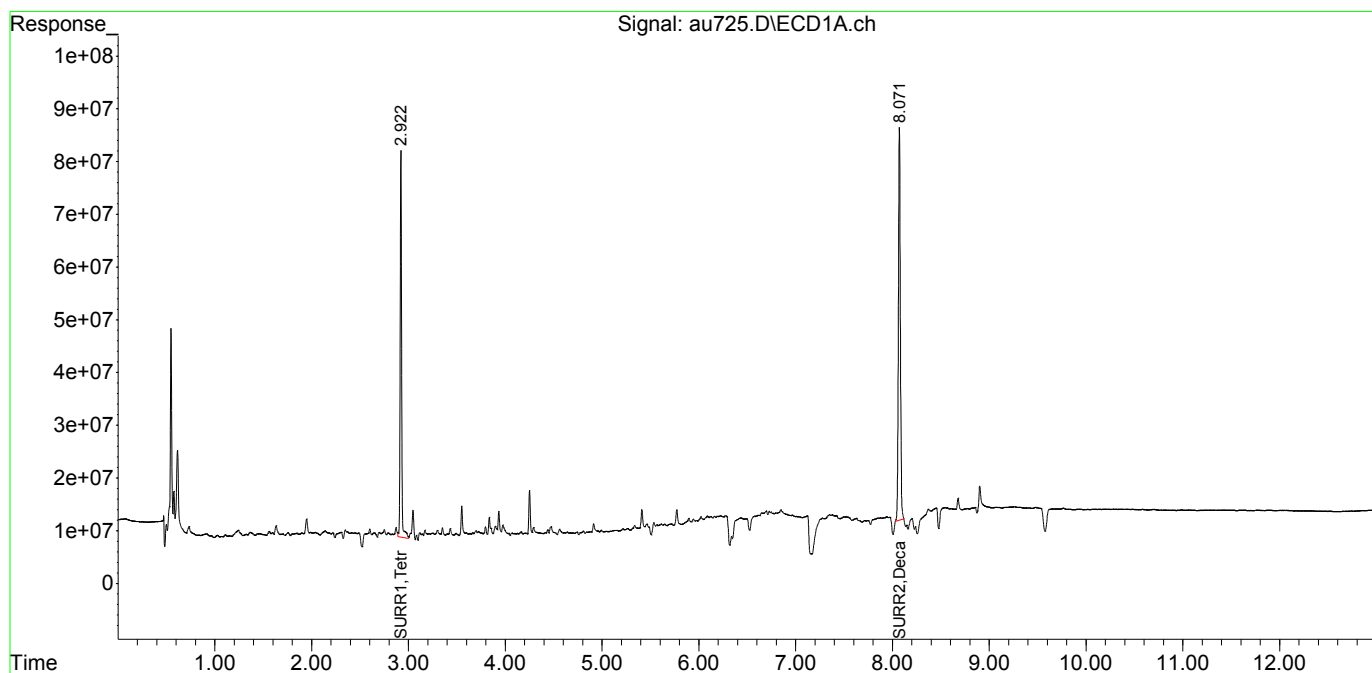
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au725.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 4:16 pm  
Operator : m.pedro  
Sample : rql801536-01  
Misc : 308673  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:32 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

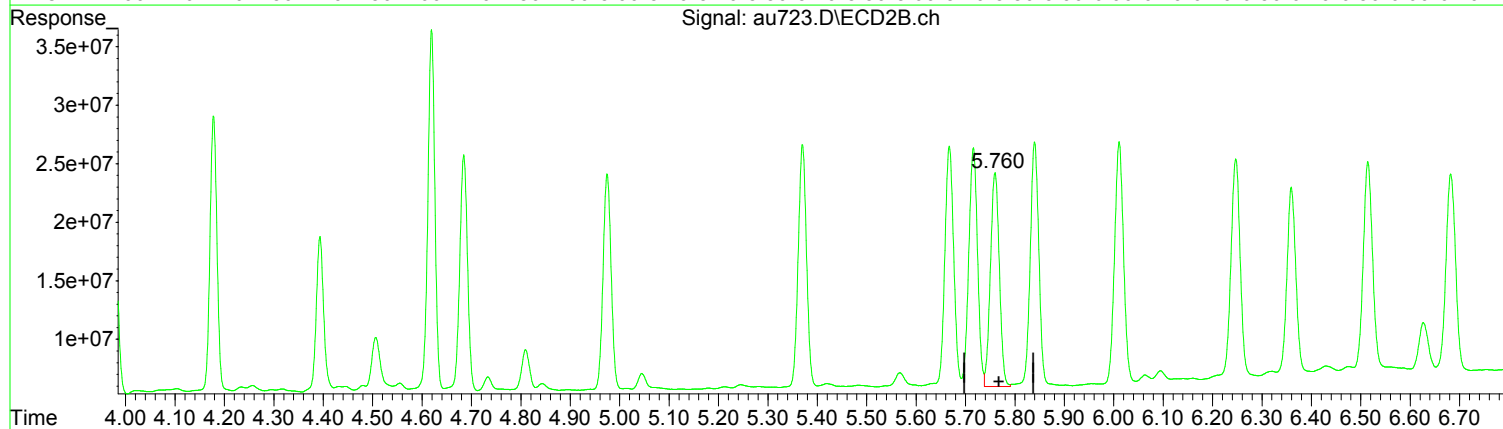
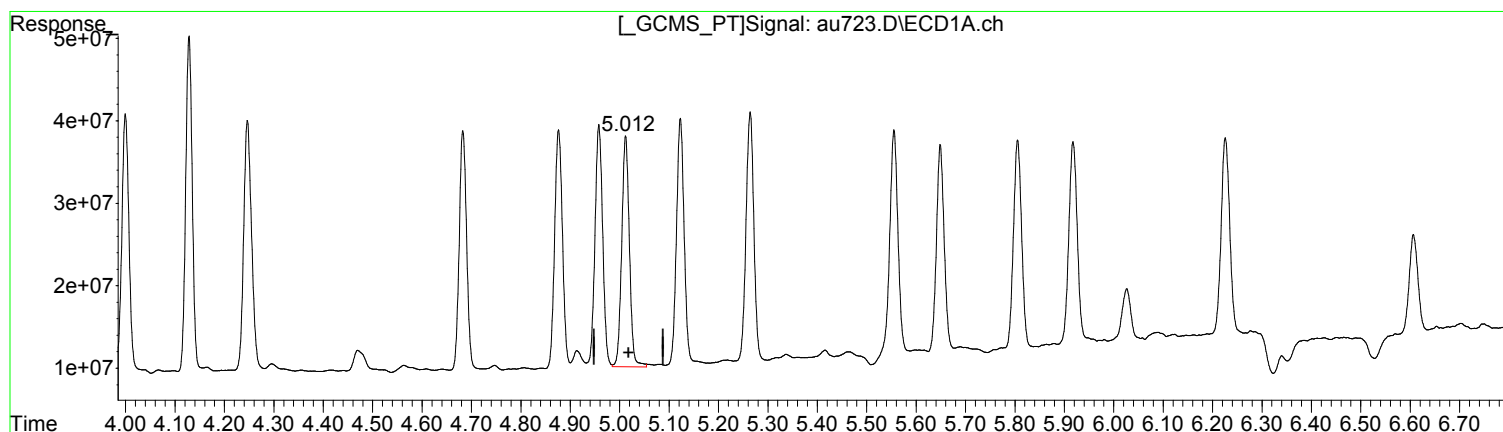
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) alpha-Endosu (tc)  
5.012min 14.497 ug/l m  
response 303152691

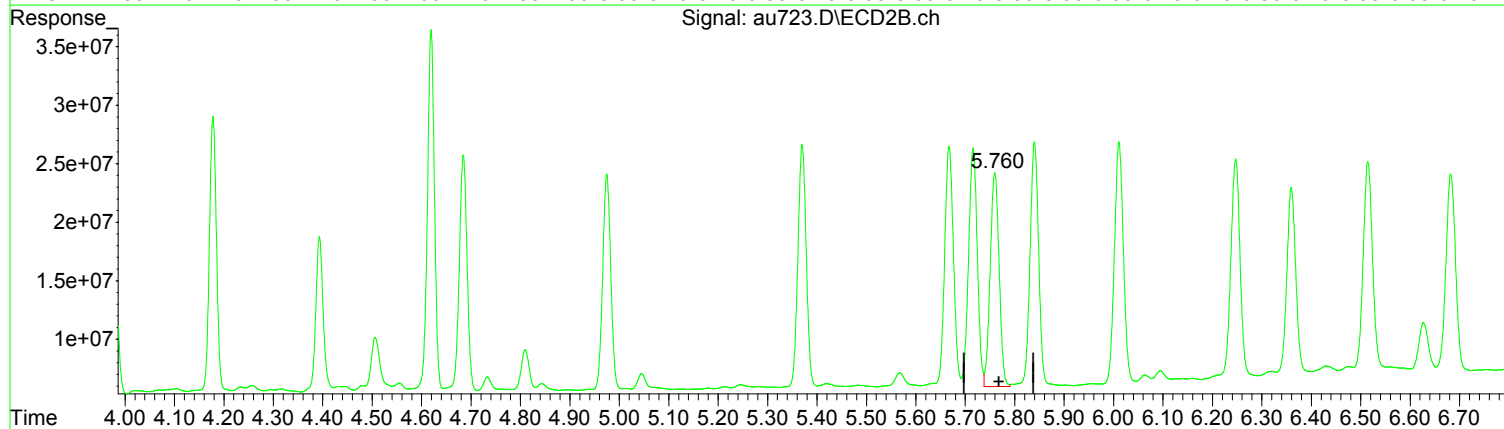
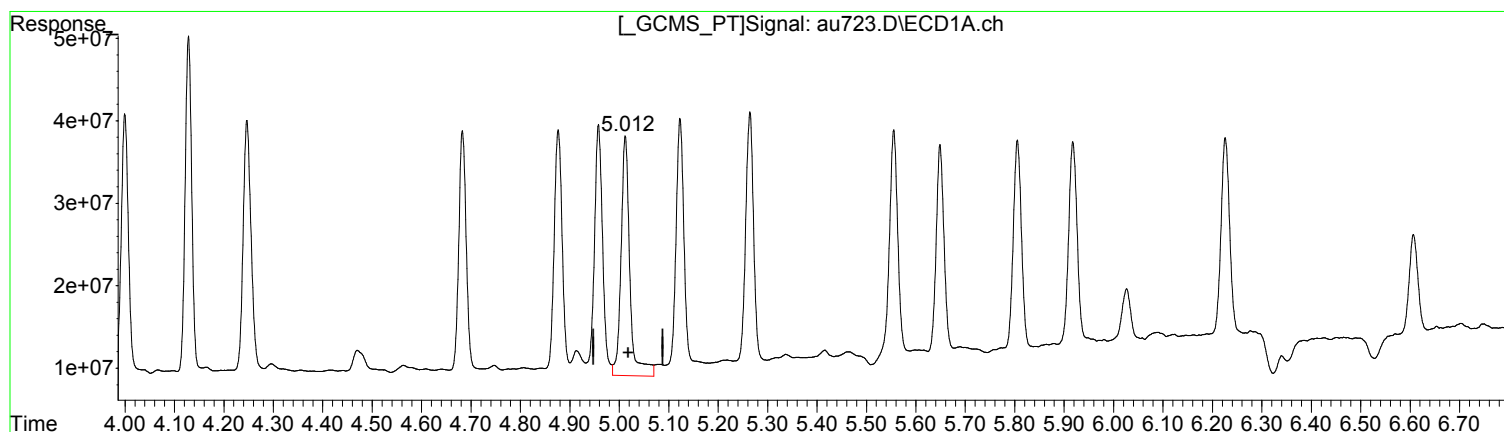
(10) alpha-Endosu #2 (tc)  
5.760min 15.597 ug/l  
response 230368265

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) alpha-Endosu (tc)  
5.012min 17.230 ug/l  
response 360309011

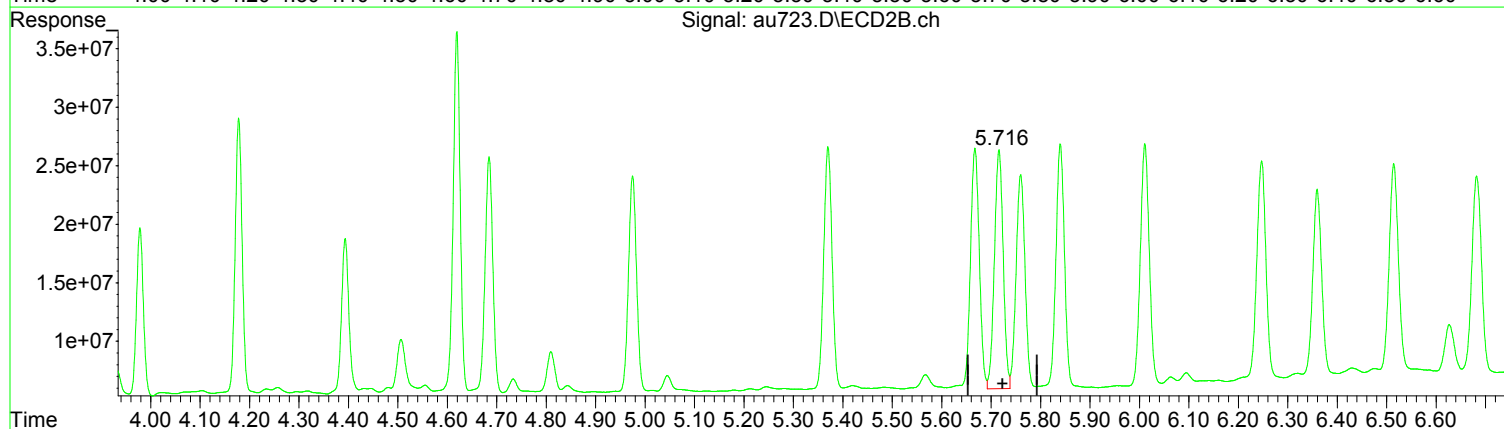
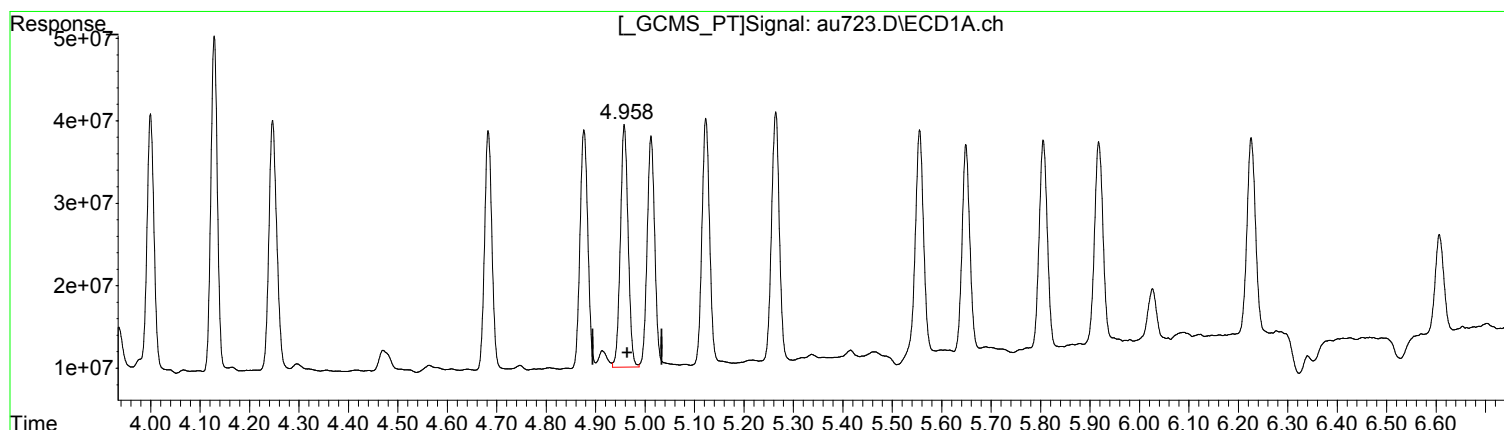
(10) alpha-Endosu #2 (tc)  
5.760min 15.597 ug/l  
response 230368265

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(12) alpha-Chlord (tc)  
4.958min 15.052 ug/l m  
response 320531850

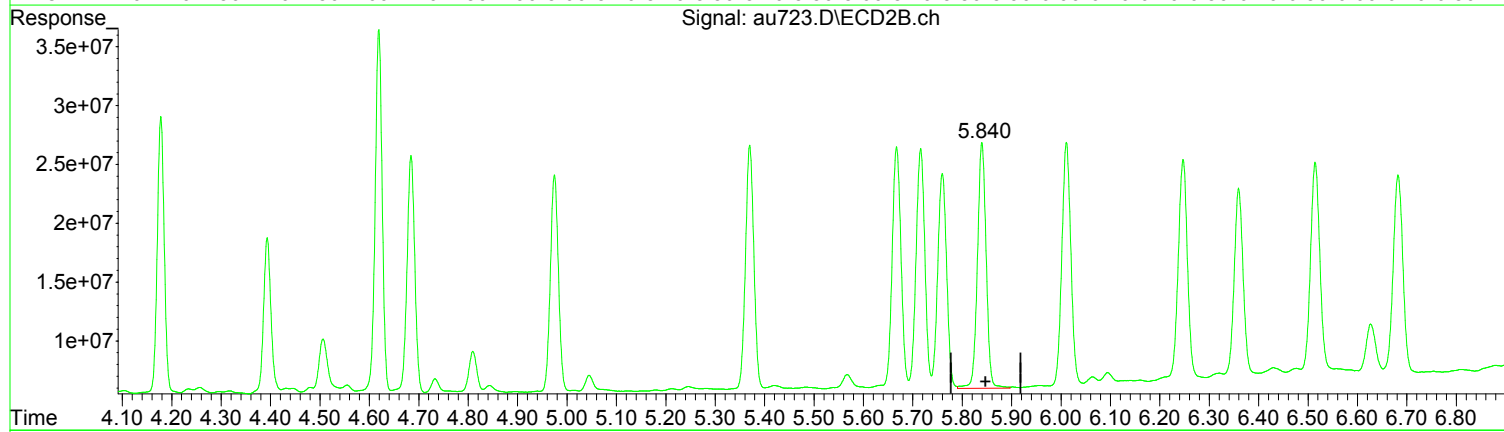
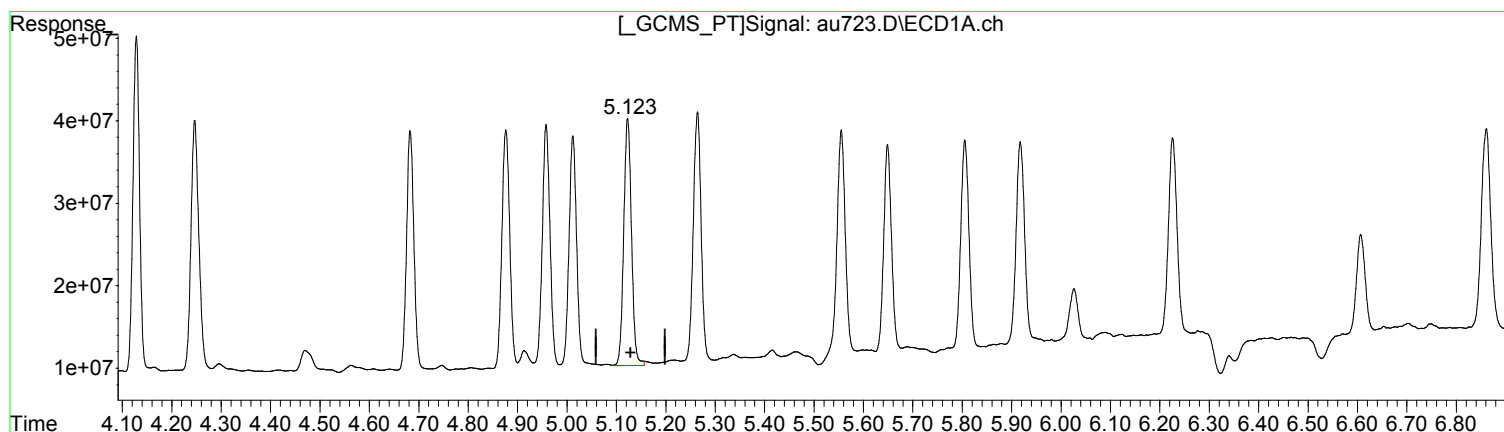
(12) alpha-Chlord #2 (tc)  
5.716min 15.625 ug/l  
response 252060534

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)  
5.123min 15.597 ug/l m  
response 325890164

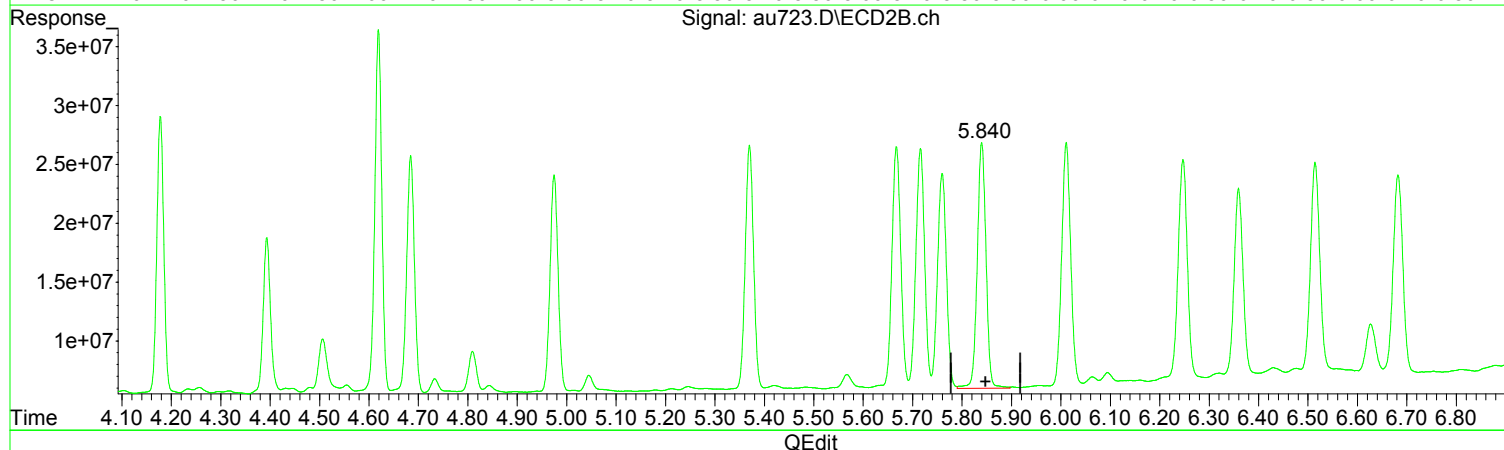
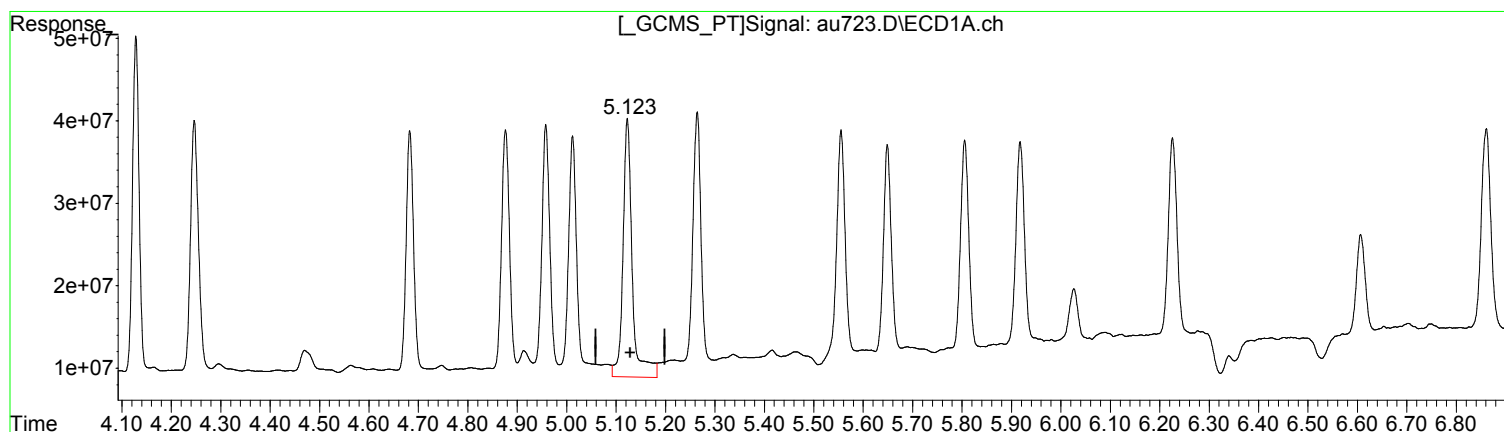
(13) 4,4'-DDE #2 (tc)  
5.840min 16.999 ug/l  
response 256352467

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)  
5.123min 19.535 ug/l  
response 408194492

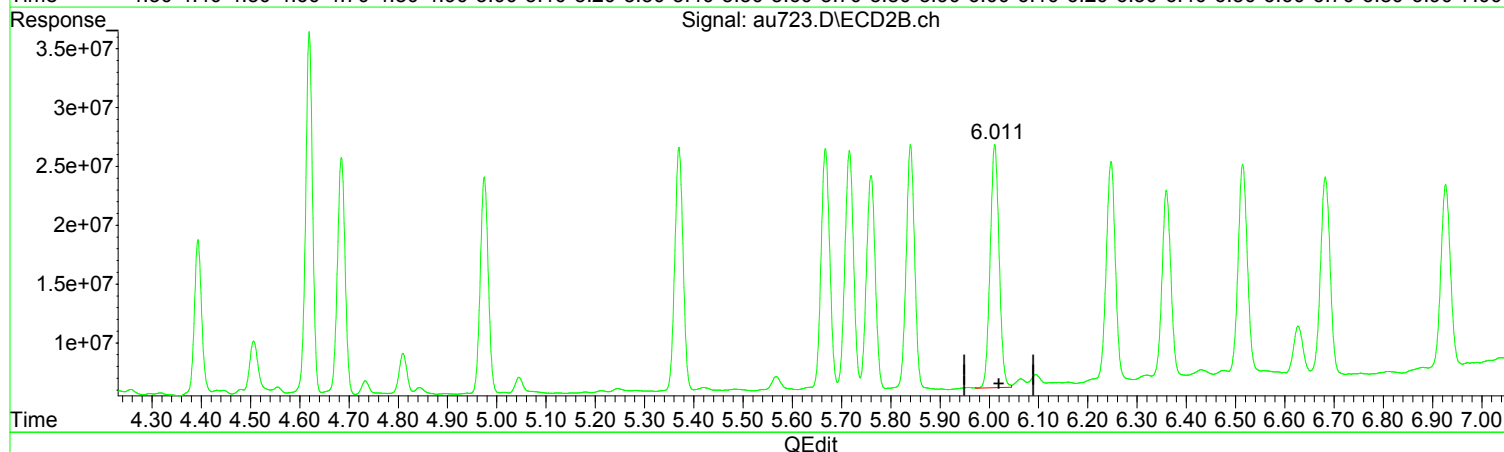
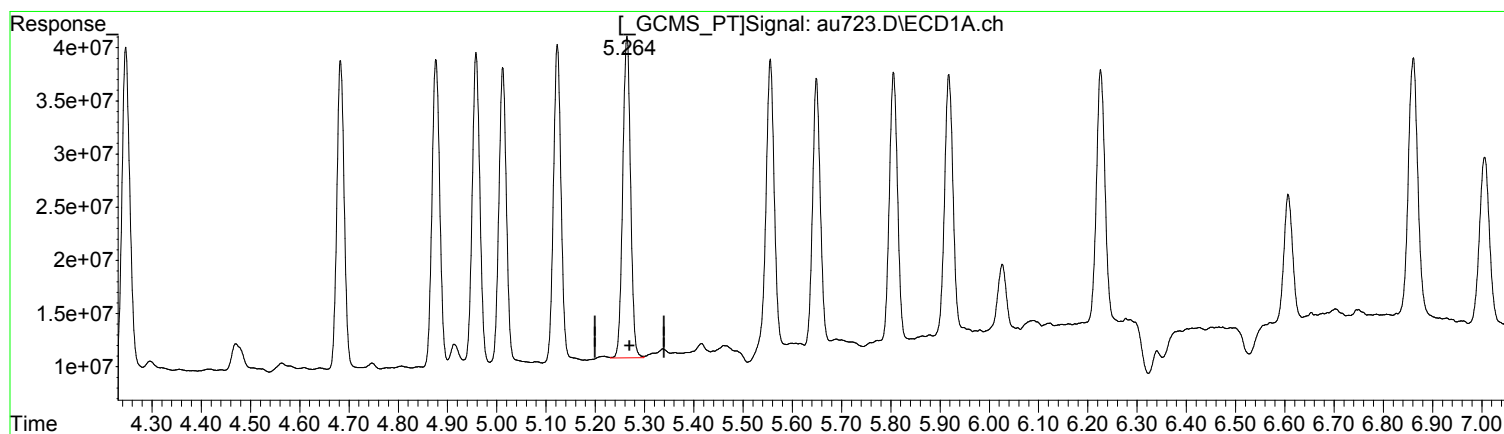
(13) 4,4'-DDE #2 (tc)  
5.840min 16.999 ug/l  
response 256352467

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.264min 14.752 ug/l m  
response 334015001

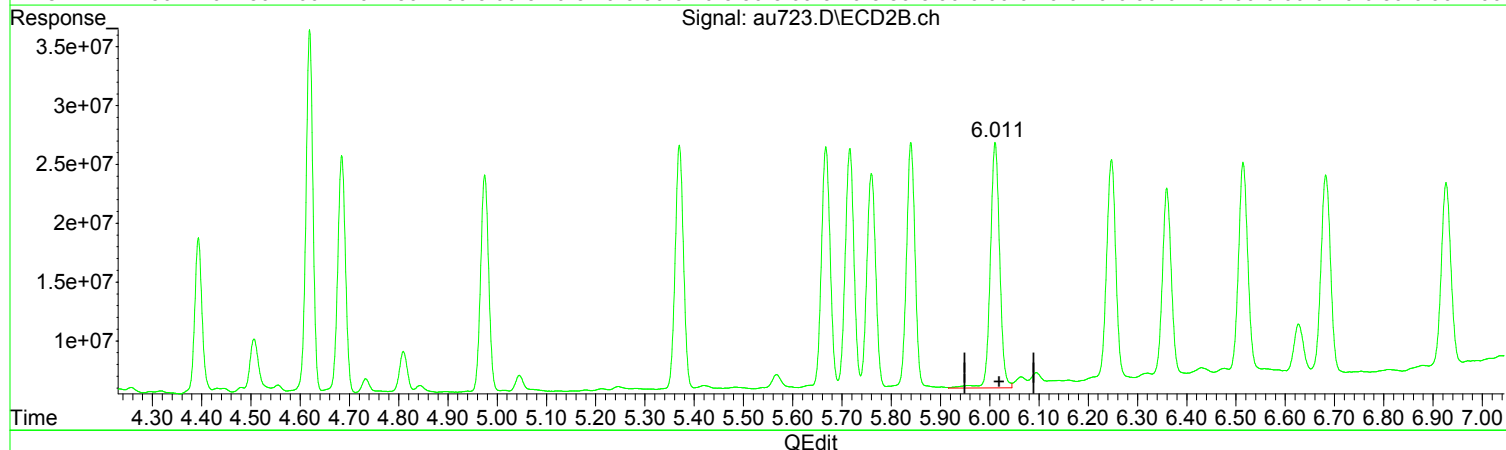
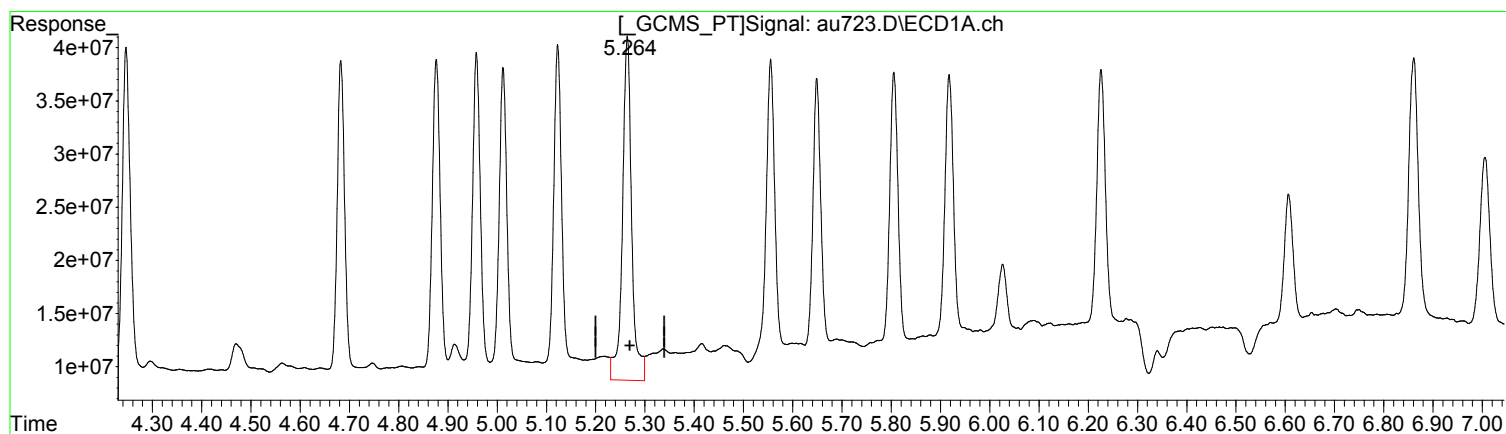
(14) Dieldrin #2 (tcm)  
6.011min 16.198 ug/l m  
response 262242596

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.264min 18.544 ug/l  
response 419875724

(14) Dieldrin #2 (tcm)  
6.011min 16.959 ug/l  
response 274575081

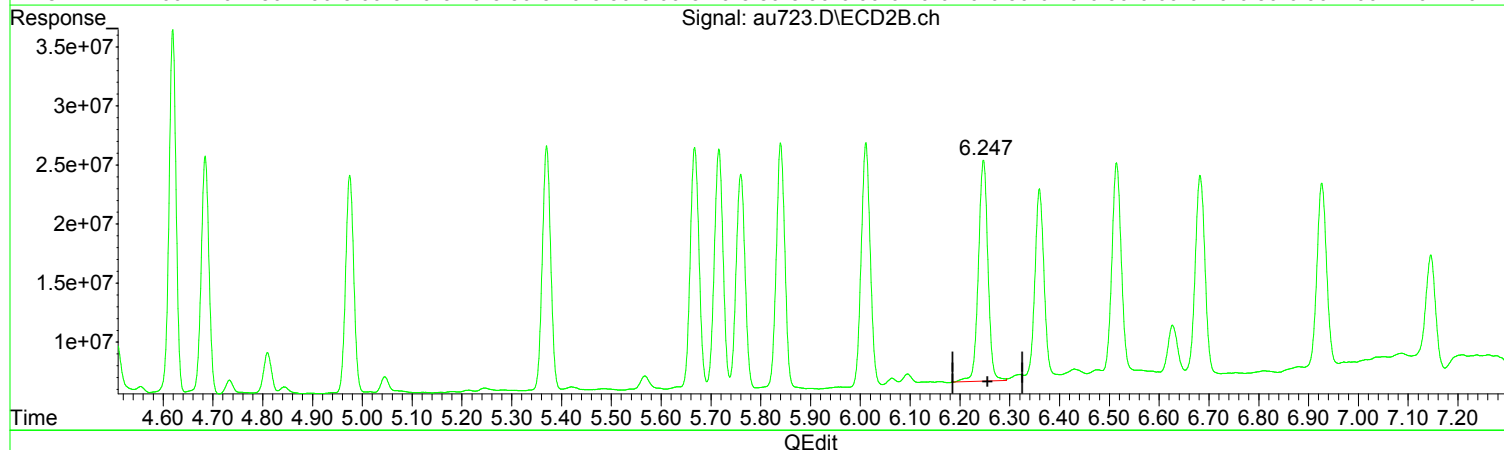
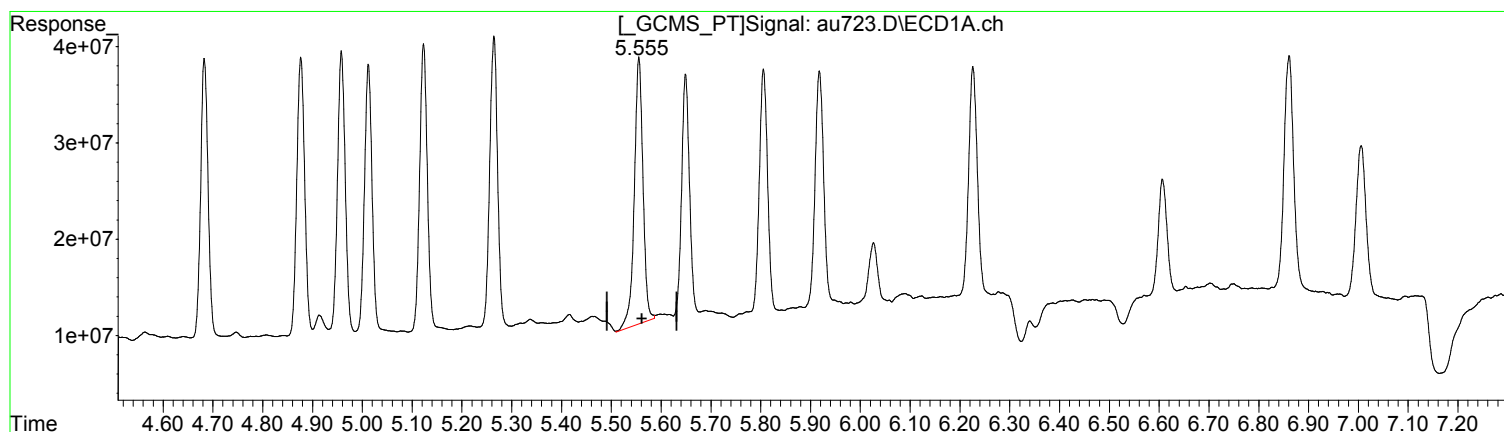
Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rql801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) Endrin (tcm)  
5.555min 16.976 ug/l m  
response 334932914

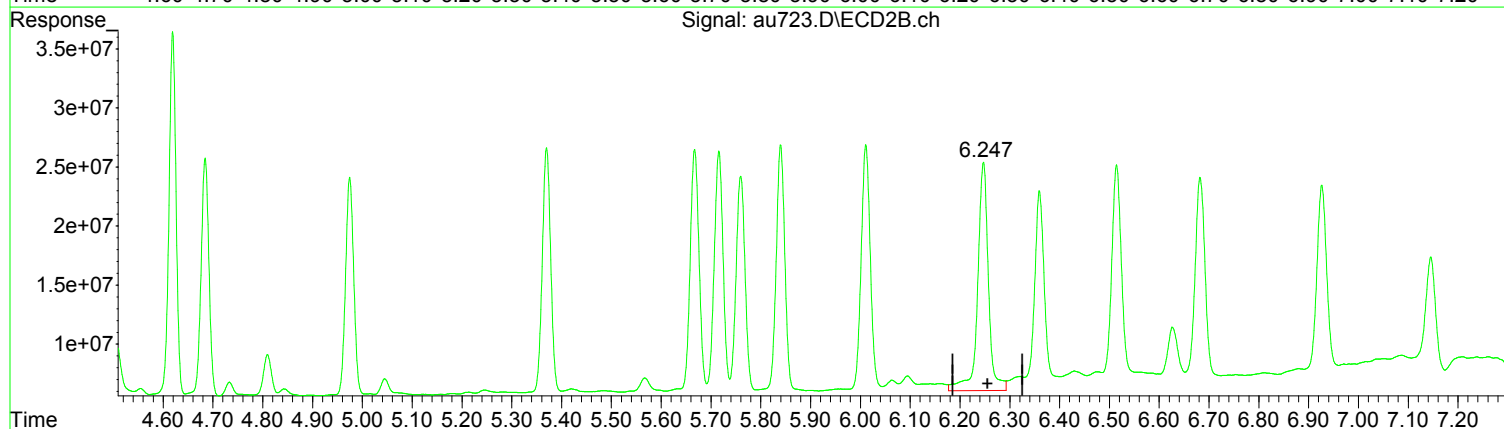
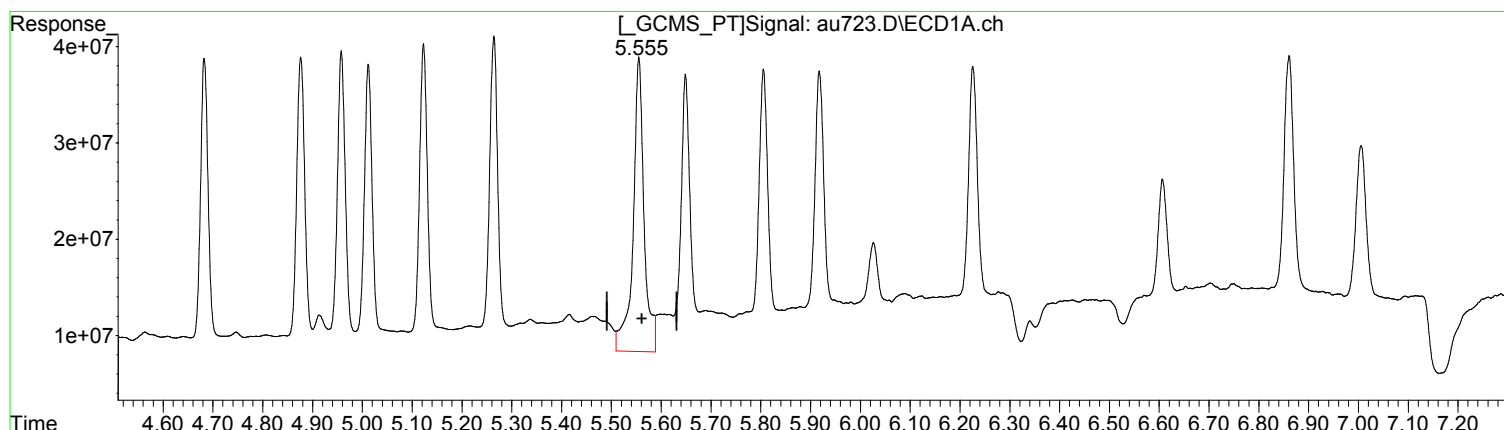
(15) Endrin #2 (tcm)  
6.247min 16.957 ug/l m  
response 248829806

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rql801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) Endrin (tcm)  
5.555min 23.575 ug/l  
response 465138121

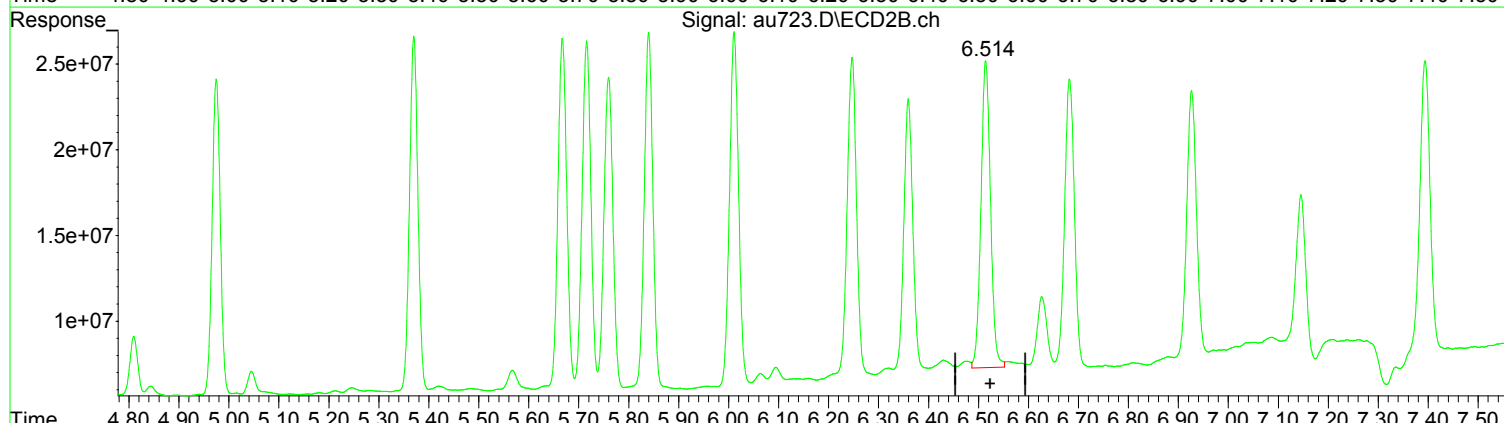
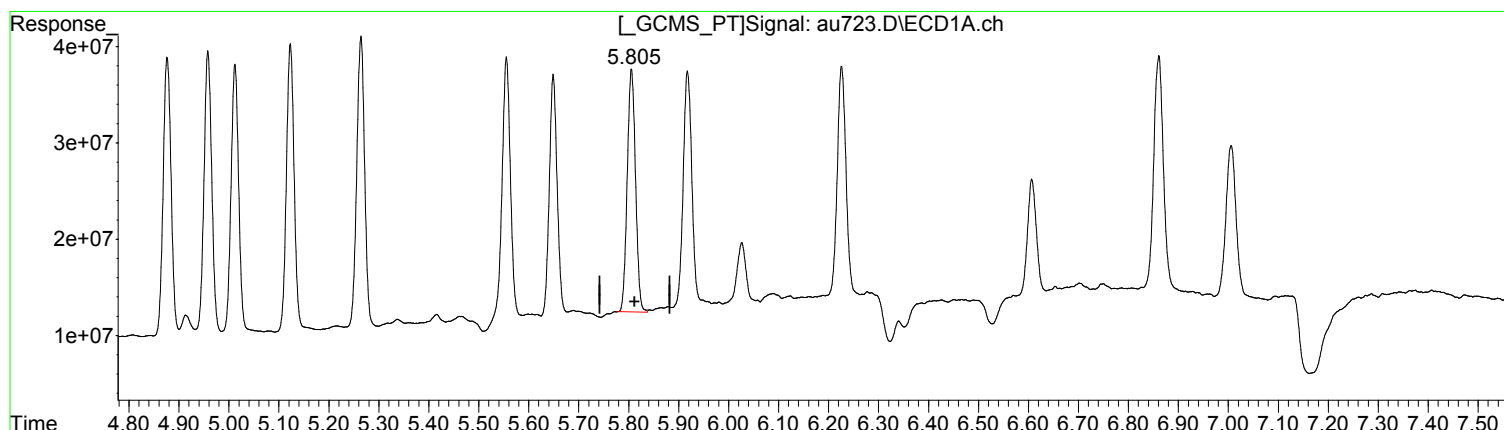
(15) Endrin #2 (tcm)  
6.247min 19.857 ug/l  
response 291377209

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) beta-Endosul (tc)  
5.805min 14.970 ug/l m  
response 290189471

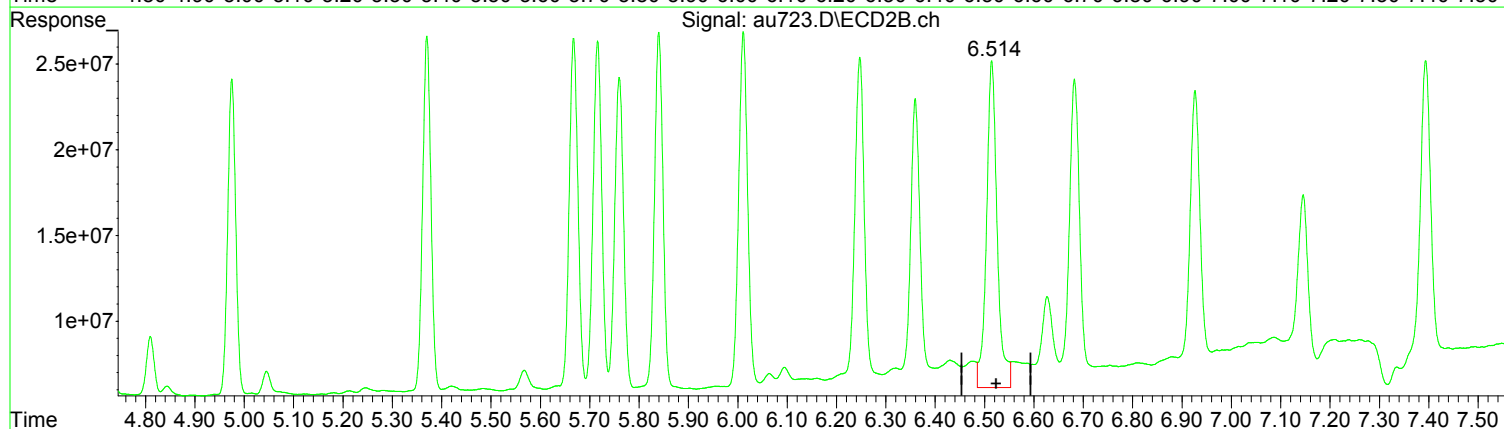
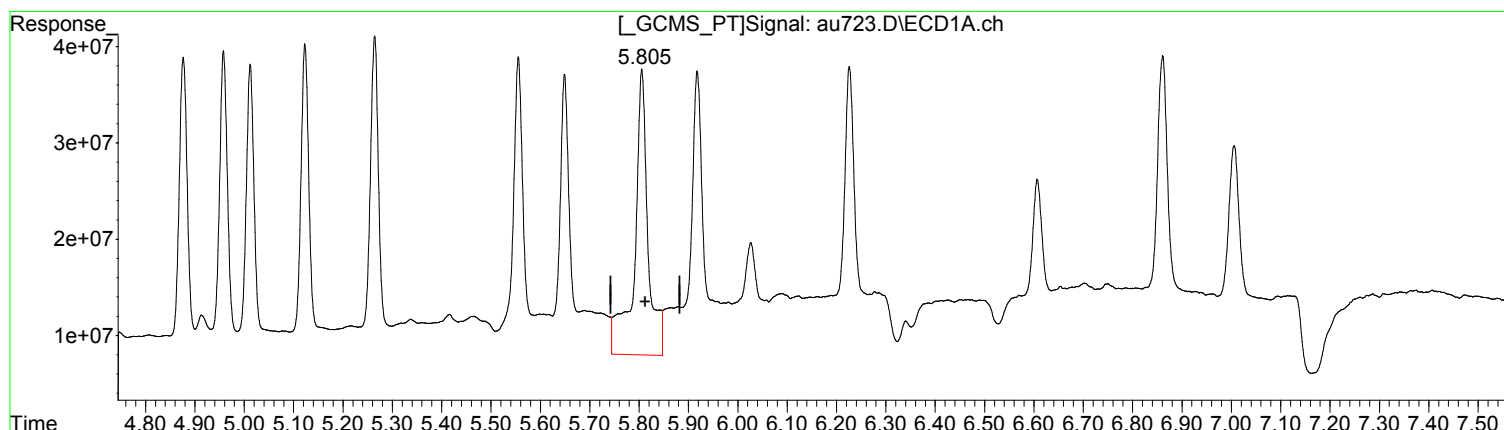
(17) beta-Endosul #2 (tc)  
6.514min 16.652 ug/l m  
response 238417892

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) beta-Endosul (tc)  
5.806min 29.014 ug/l  
response 562443658

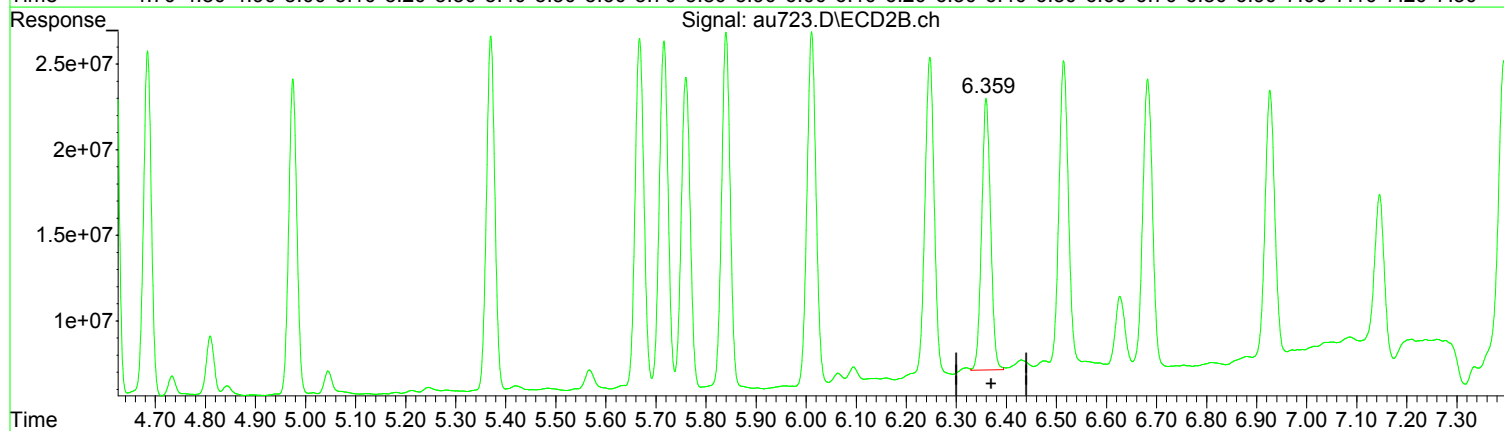
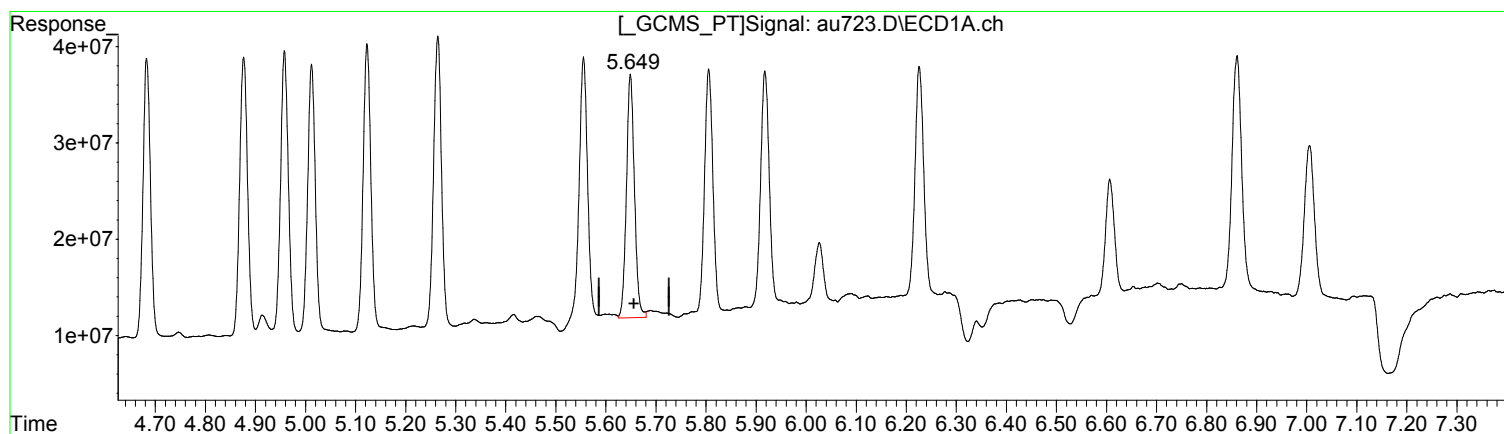
(17) beta-Endosul #2 (tc)  
6.515min 19.941 ug/l  
response 285509711

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)  
5.649min 15.108 ug/l m  
response 281243286

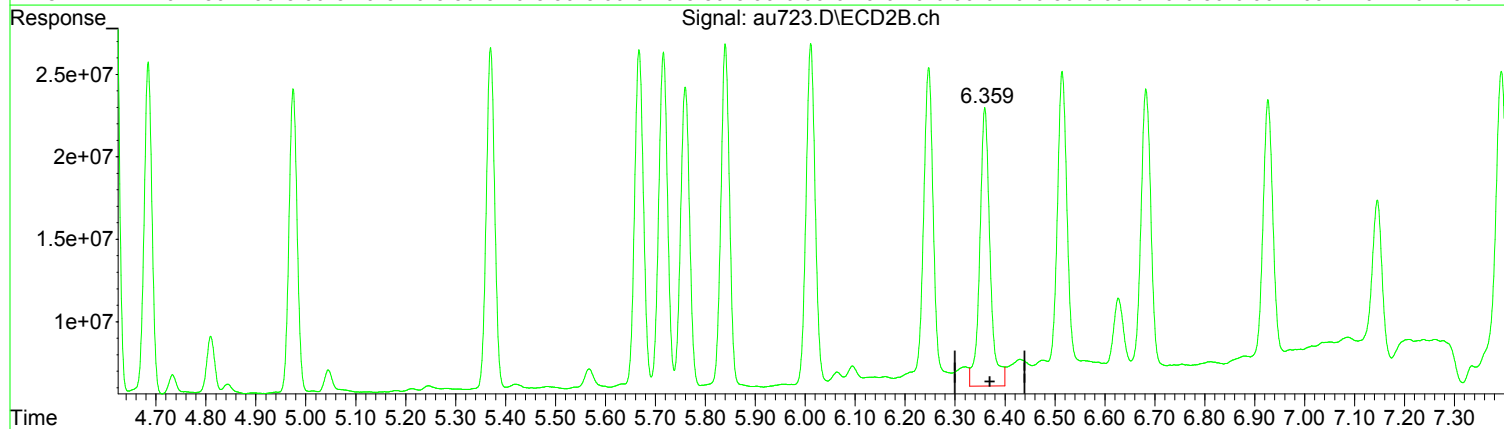
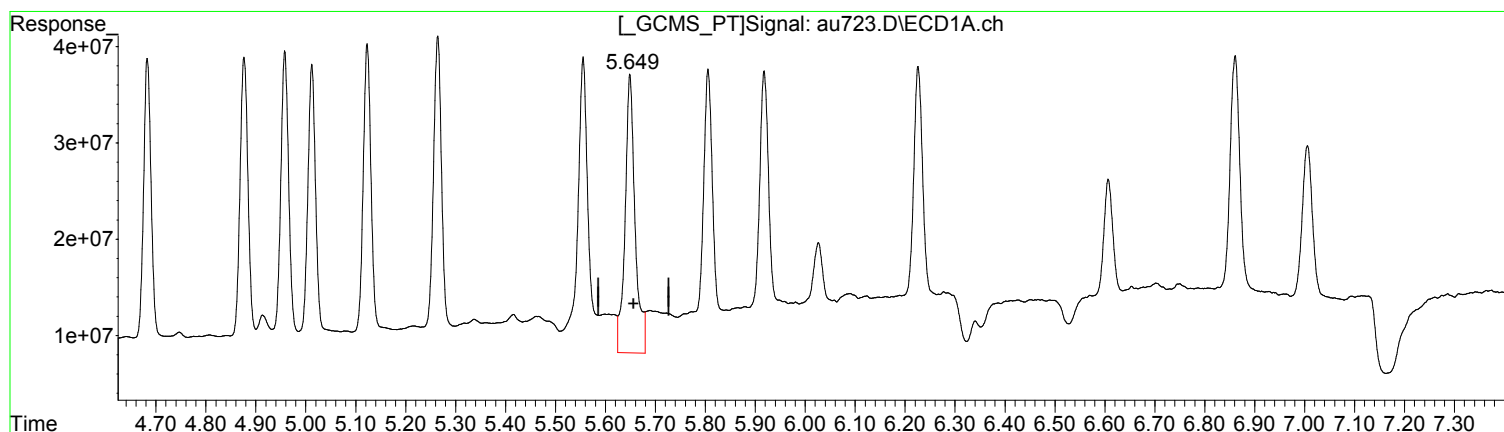
(18) 4,4'-DDD #2 (tc)  
6.359min 15.148 ug/l m  
response 197544068

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)  
5.649min 21.630 ug/l  
response 402669021

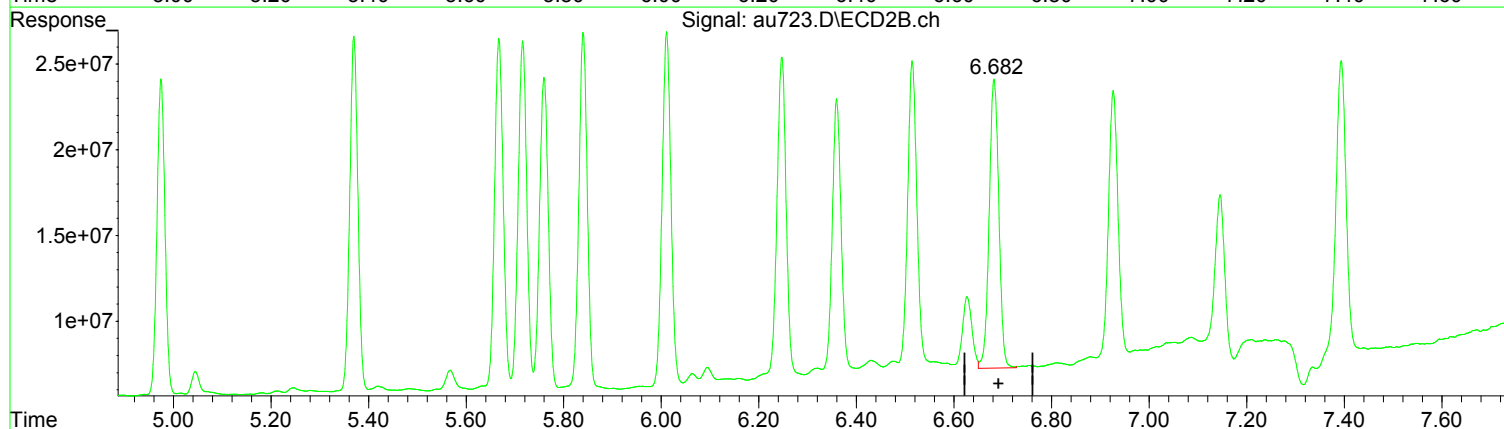
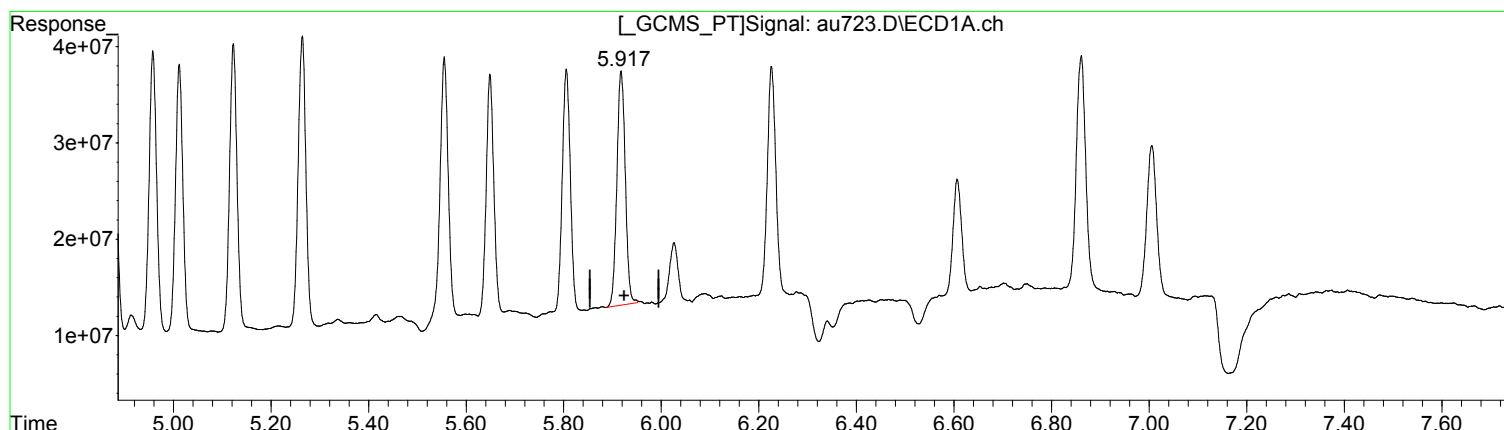
(18) 4,4'-DDD #2 (tc)  
6.360min 18.533 ug/l  
response 241690878

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.917min 16.079 ug/l m  
response 289852650

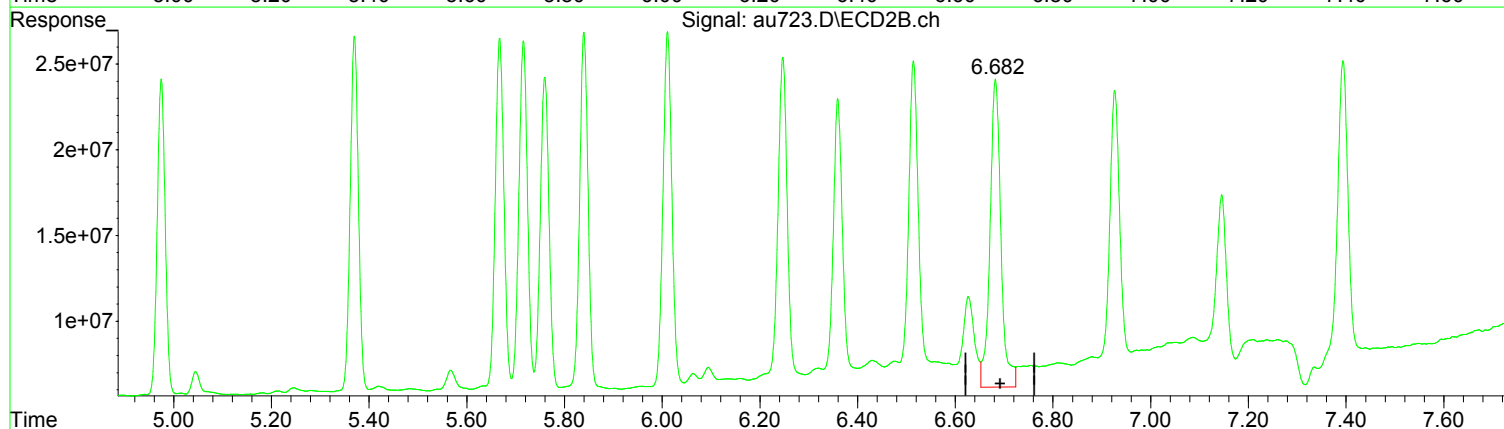
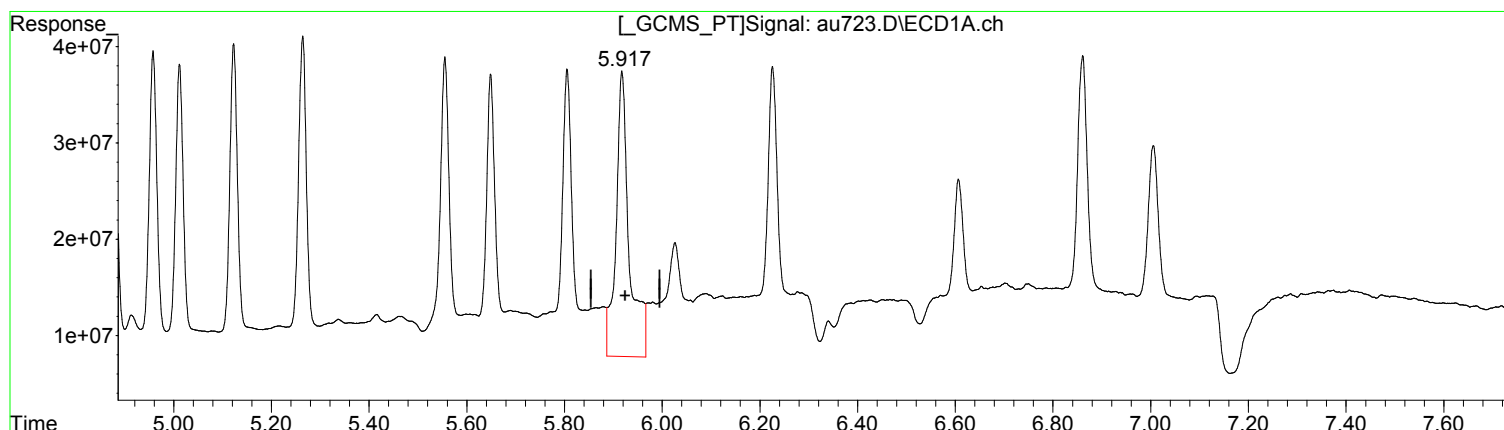
(19) 4,4'-DDT #2 (tcm)  
6.682min 16.908 ug/l m  
response 231285723

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.918min 30.534 ug/l  
response 550427466

(19) 4,4'-DDT #2 (tcm)  
6.682min 20.340 ug/l  
response 278226486

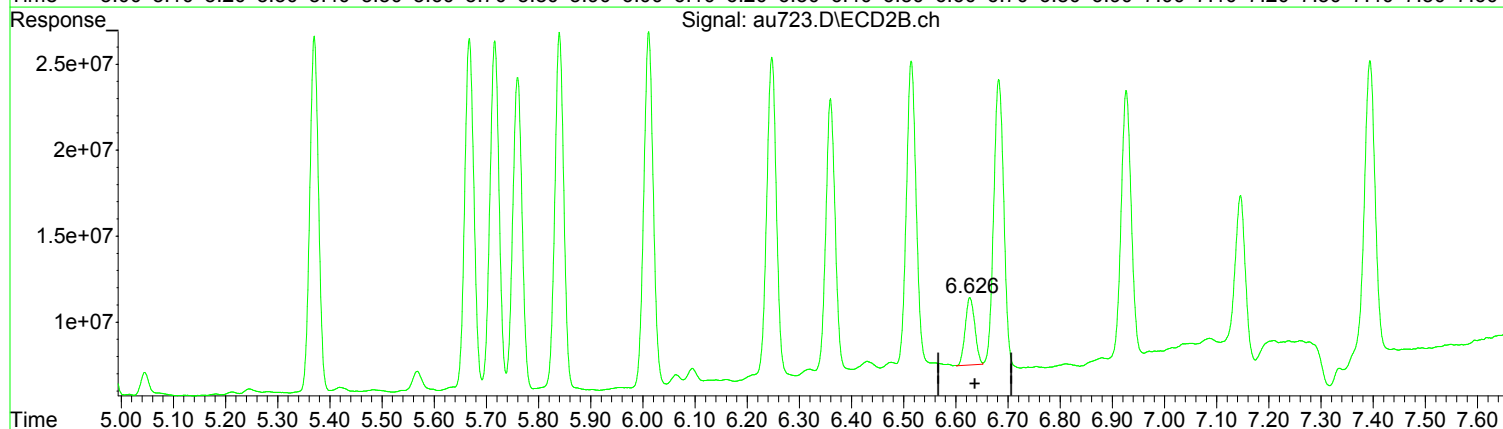
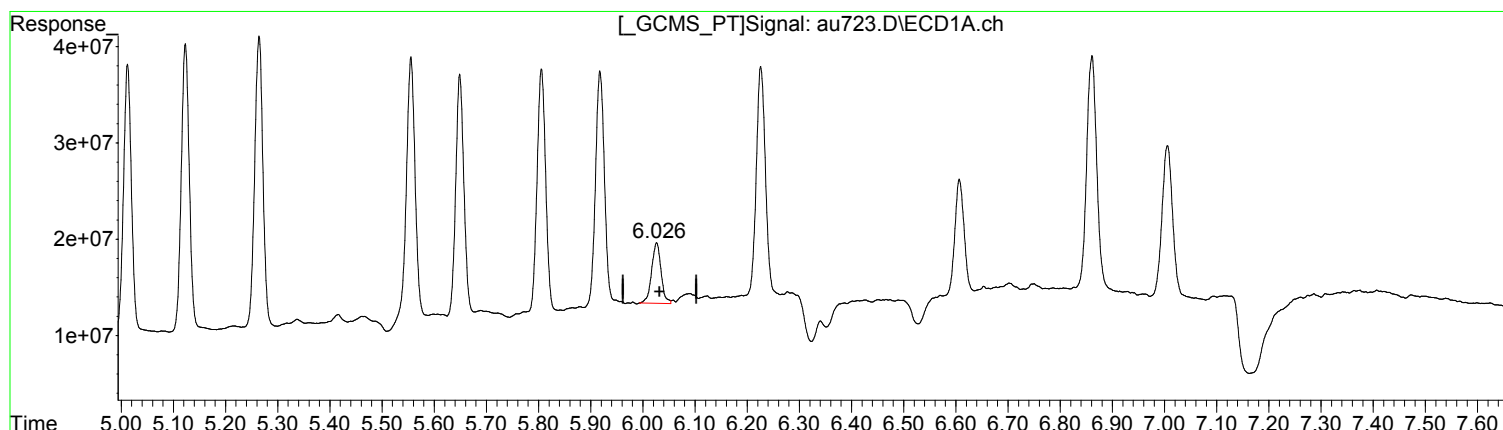
Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)  
6.026min 4.694 ug/l m  
response 78749255

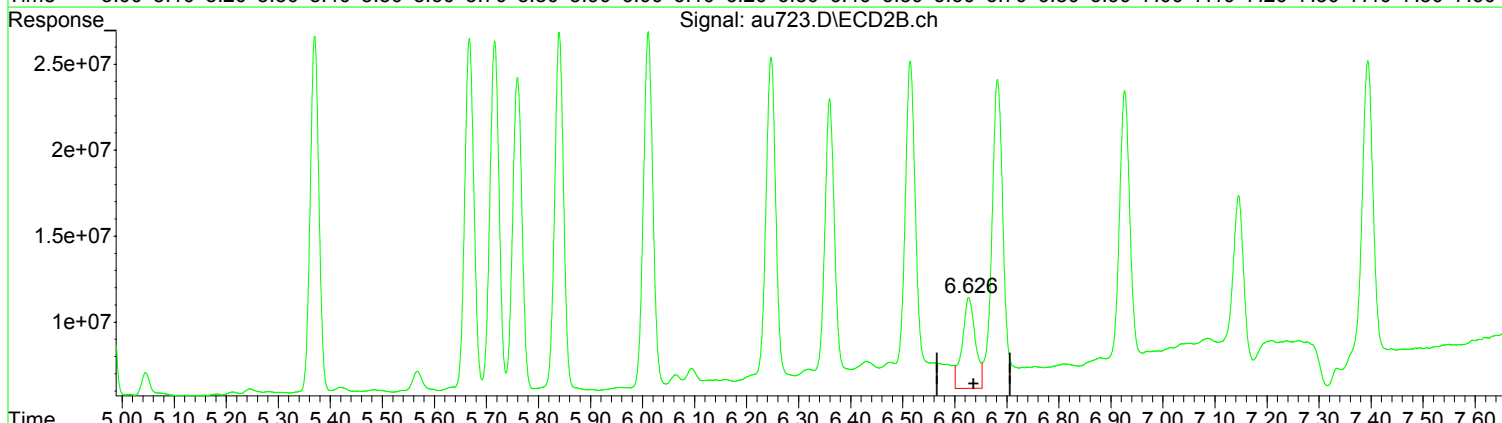
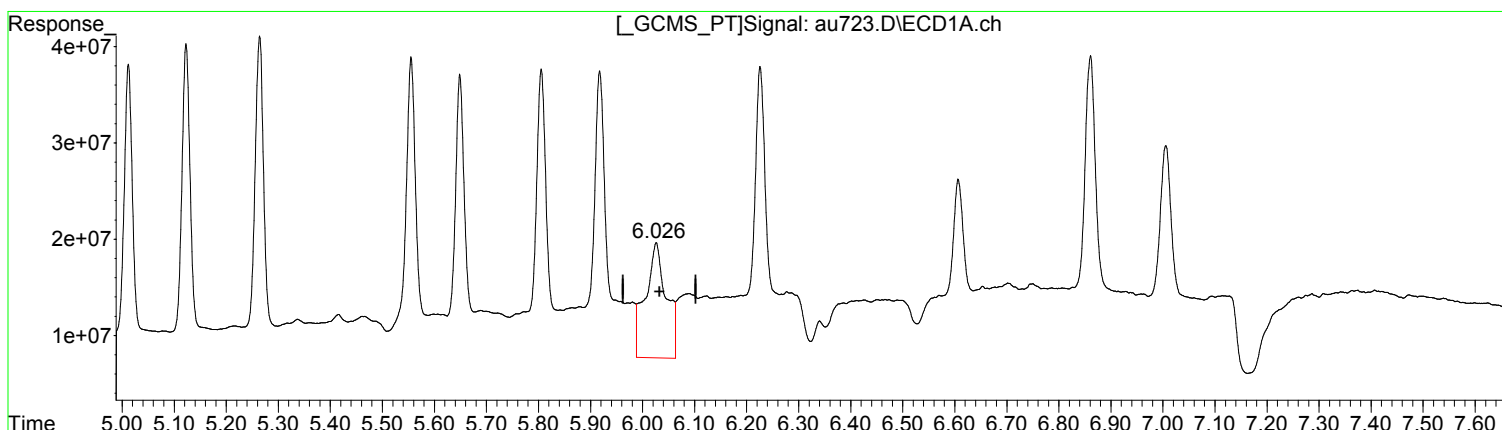
(20) Endrin Aldeh #2 (tc)  
6.626min 4.363 ug/l m  
response 50024902

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)  
6.026min 19.935 ug/l  
response 334460187

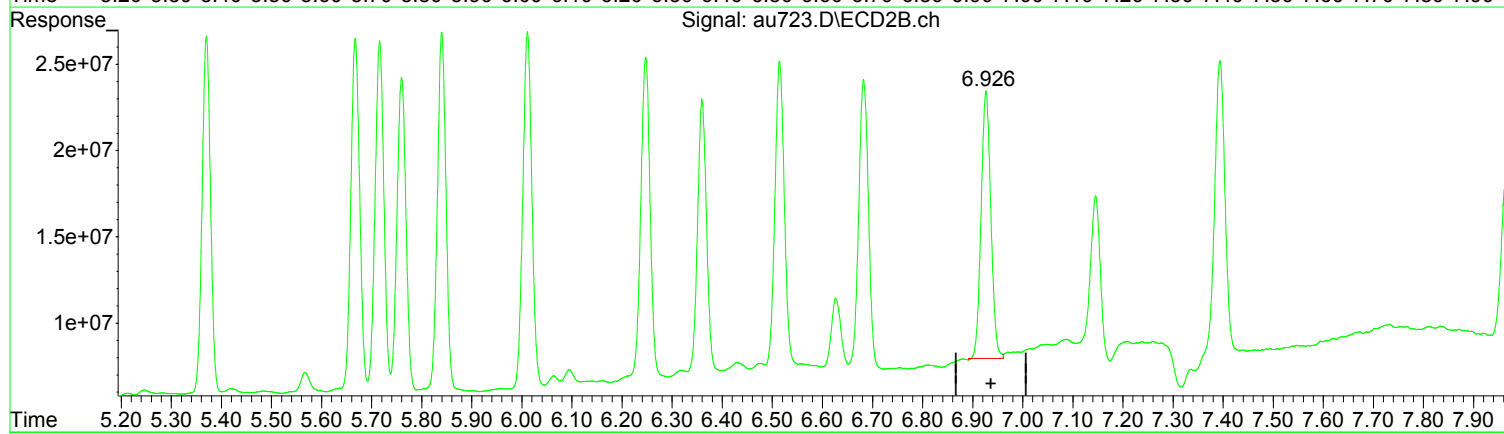
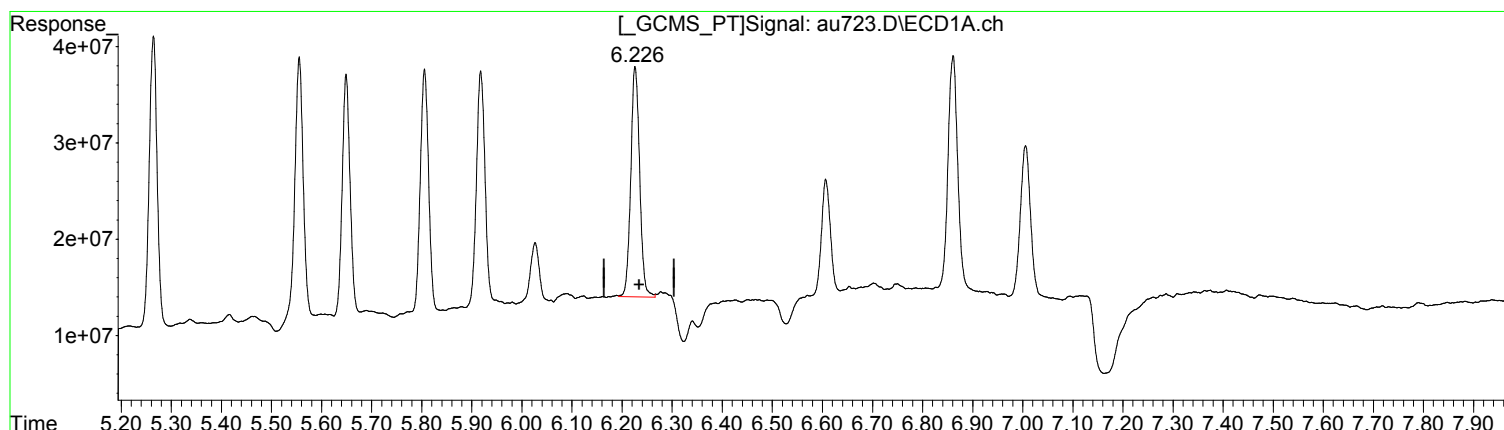
(20) Endrin Aldeh #2 (tc)  
6.627min 8.003 ug/l  
response 91760528

Manual Integration:  
Before  
  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endosulfan S (tc)  
6.226min 16.328 ug/l m  
response 295482958

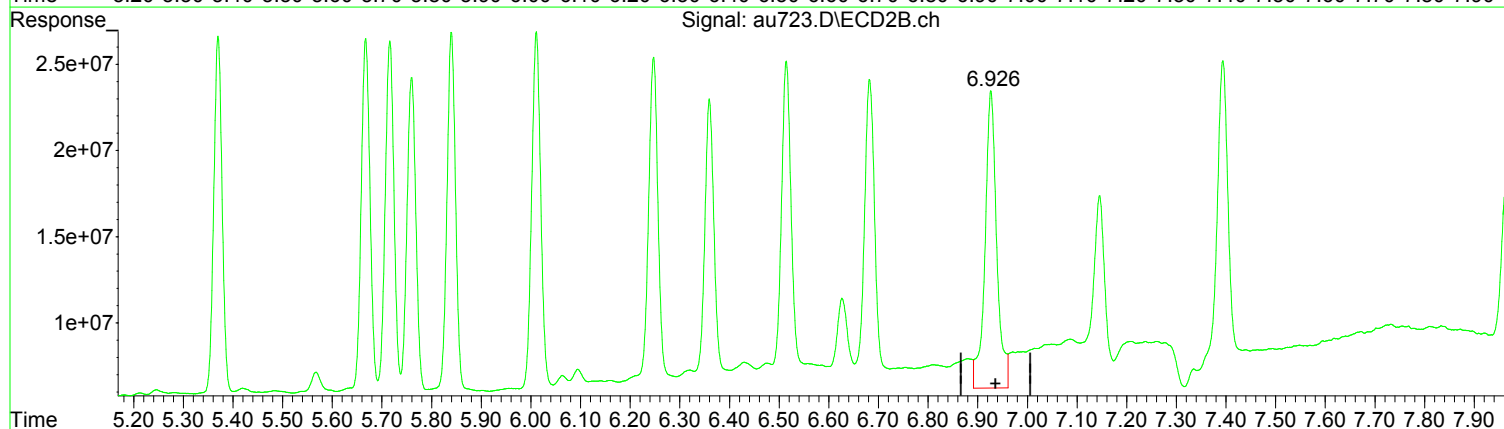
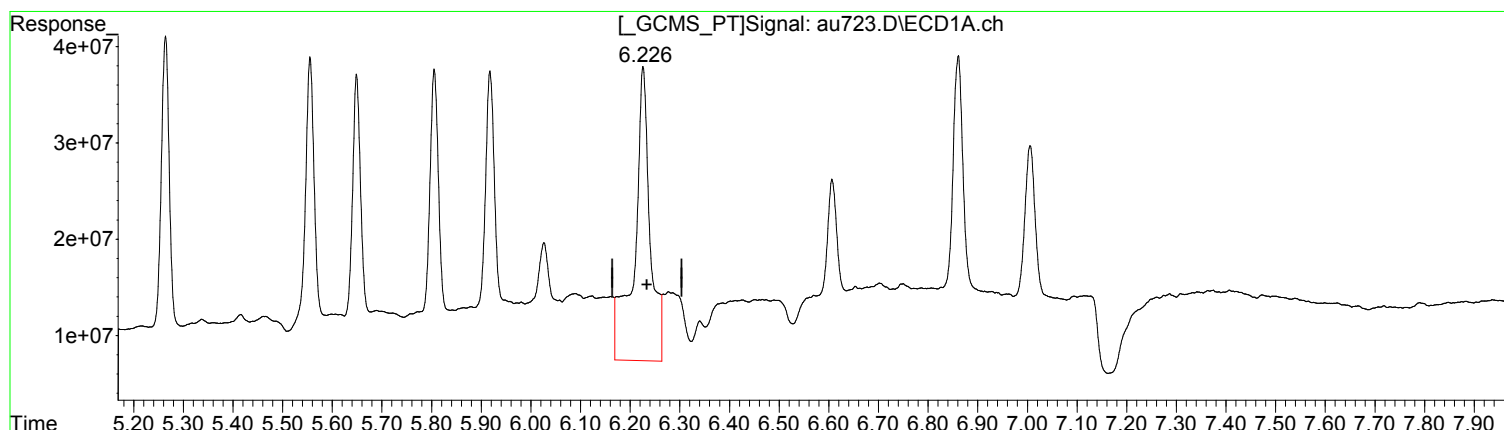
(21) Endosulfan S #2 (tc)  
6.926min 16.038 ug/l m  
response 209601179

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(21) Endosulfan S (tc)  
6.226min 37.125 ug/l  
response 671816145

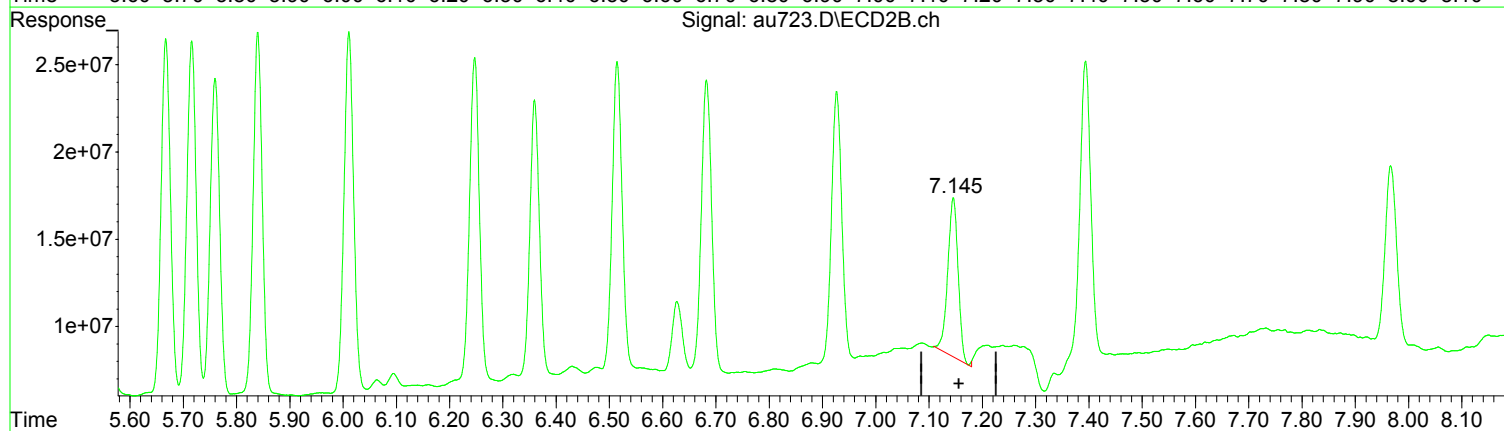
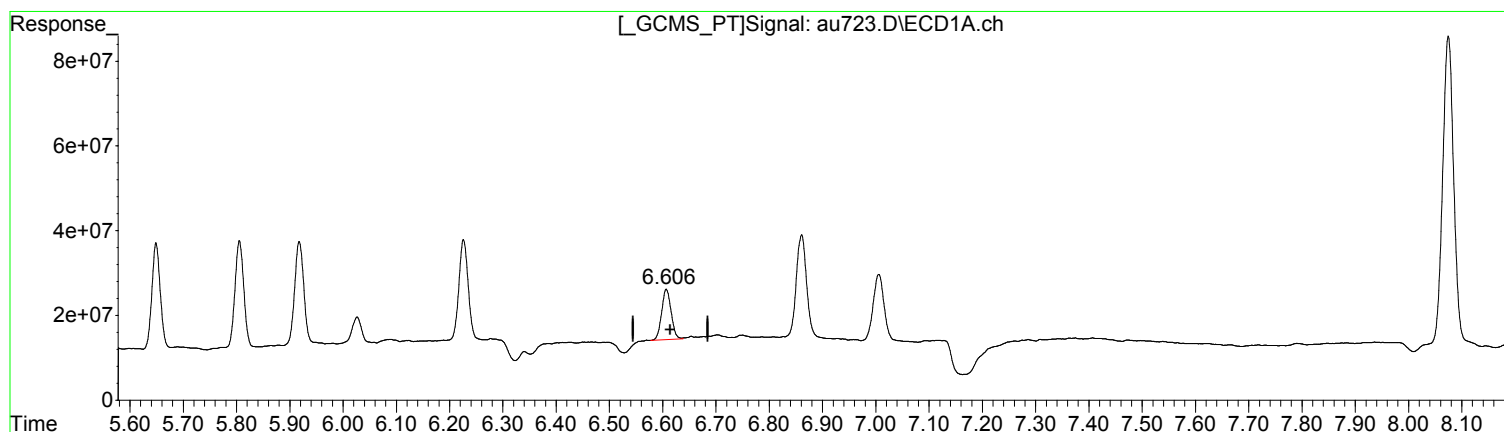
(21) Endosulfan S #2 (tc)  
6.927min 21.562 ug/l  
response 281795308

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)  
6.606min 16.384 ug/l m  
response 146513833

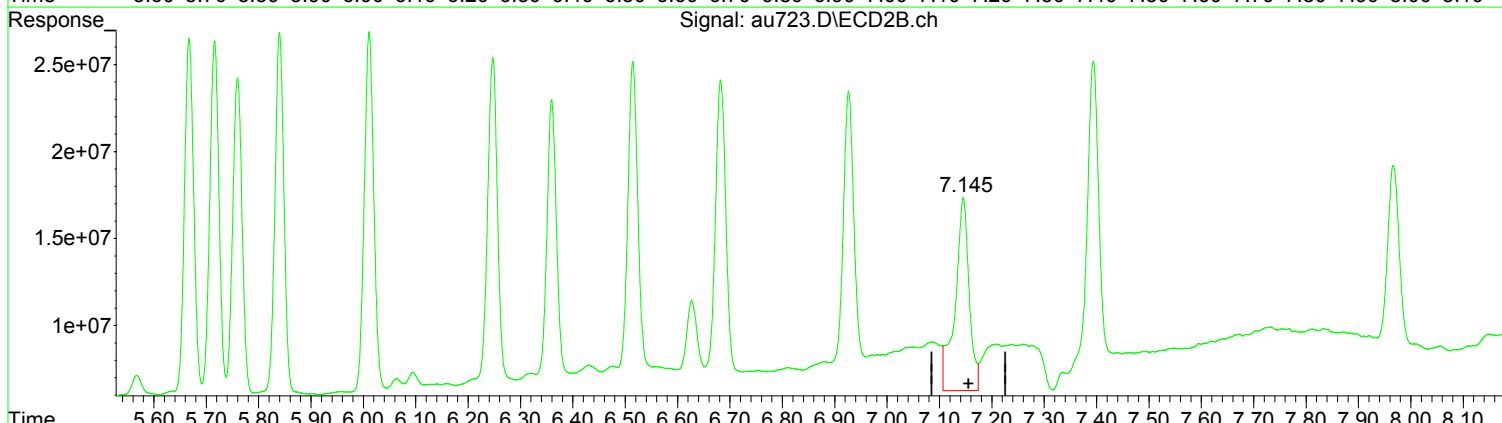
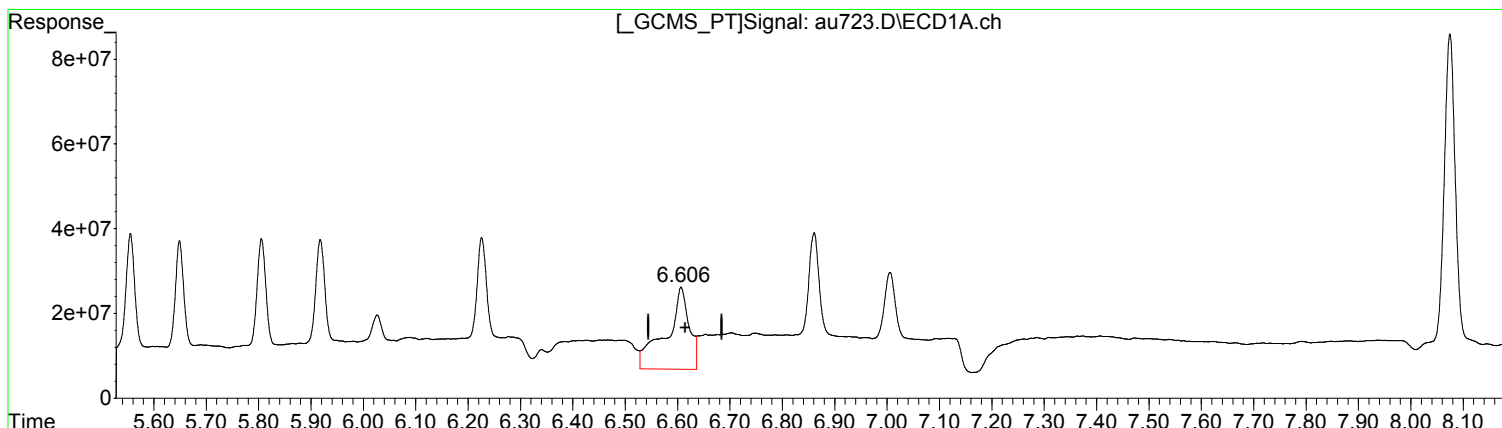
(22) Methoxychlor #2 (tc)  
7.145min 16.567 ug/l m  
response 122940292

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)  
6.607min 66.597 ug/l  
response 595545492

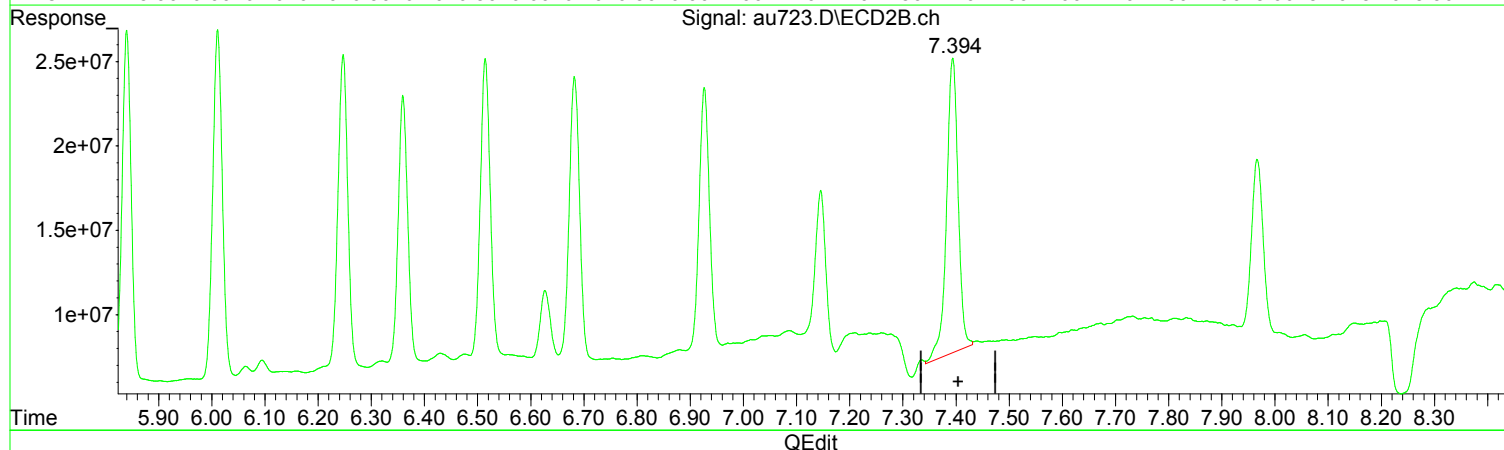
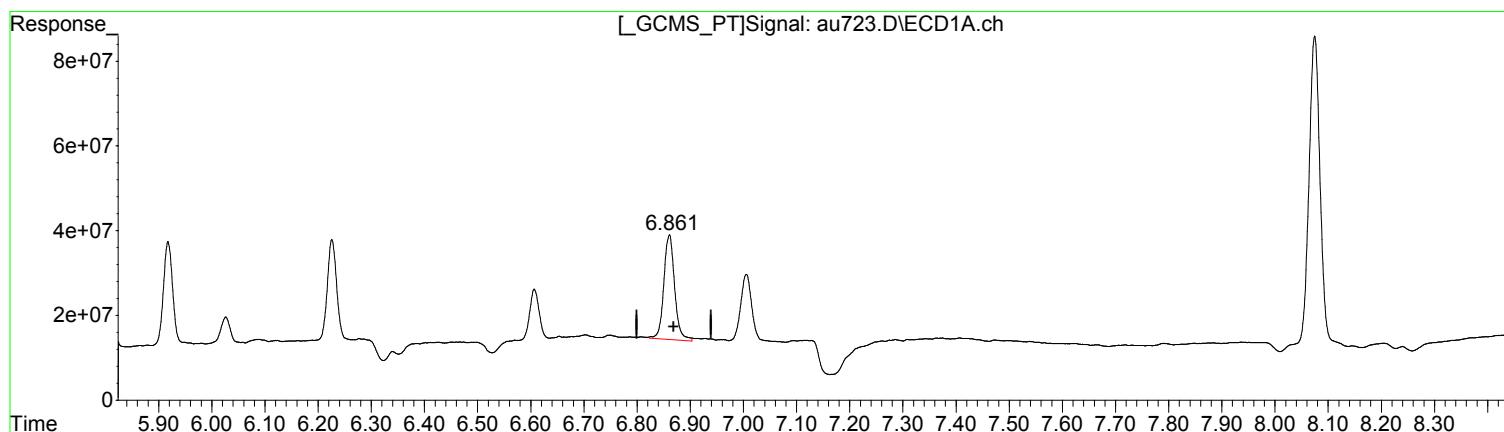
(22) Methoxychlor #2 (tc)  
7.146min 27.865 ug/l  
response 206780089

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.861min 17.838 ug/l m  
response 347860464

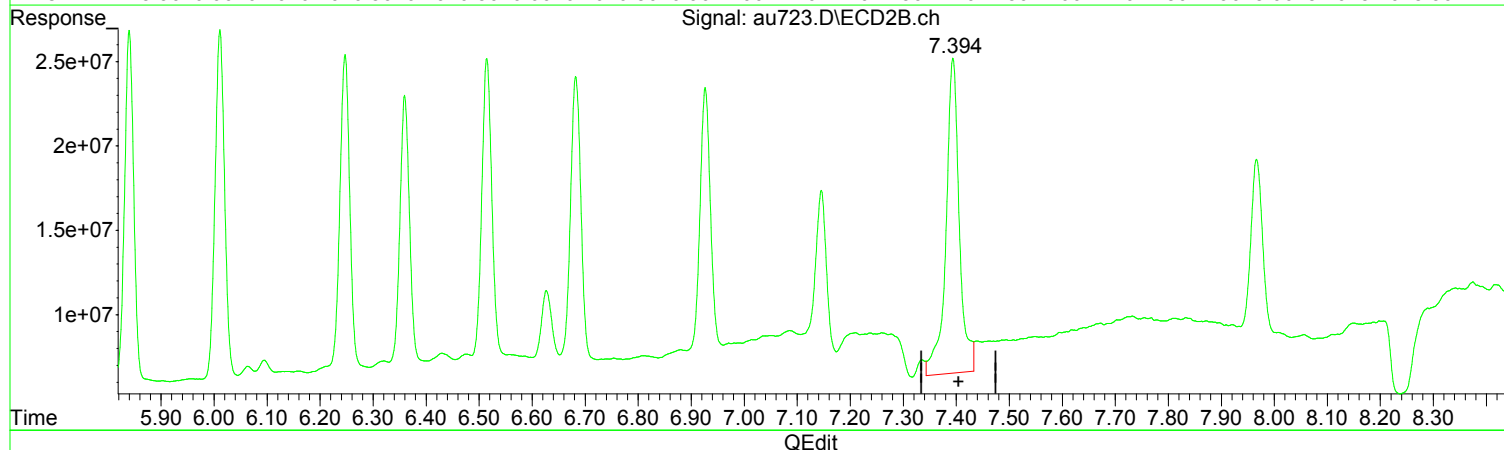
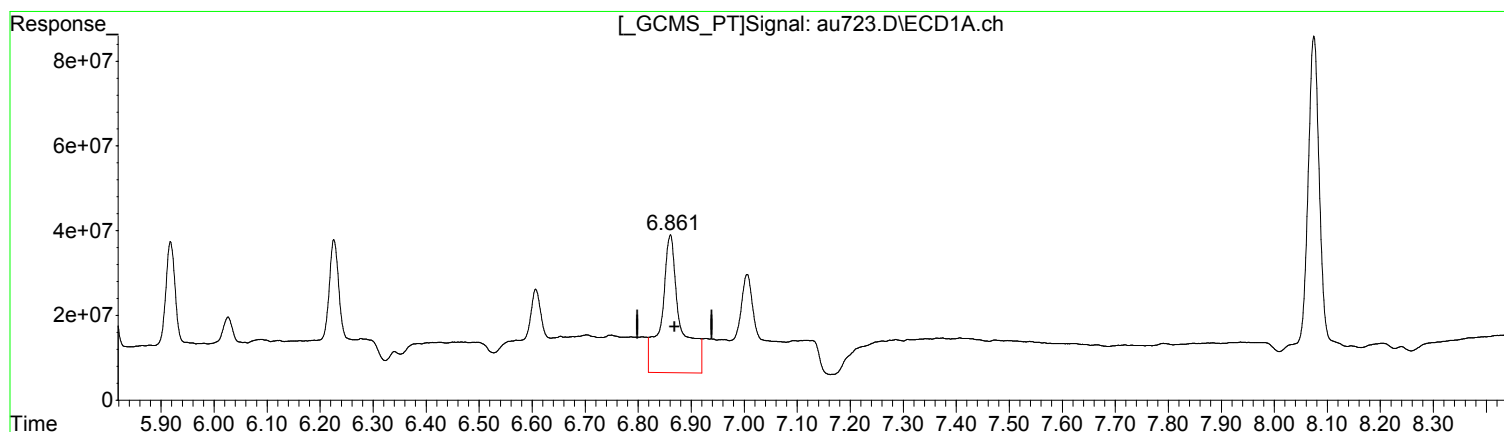
(24) Endrin Keton #2 (tc)  
7.394min 17.383 ug/l m  
response 264713974

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.861min 42.424 ug/l  
response 827314801

(24) Endrin Keton #2 (tc)  
7.394min 21.481 ug/l  
response 327122230

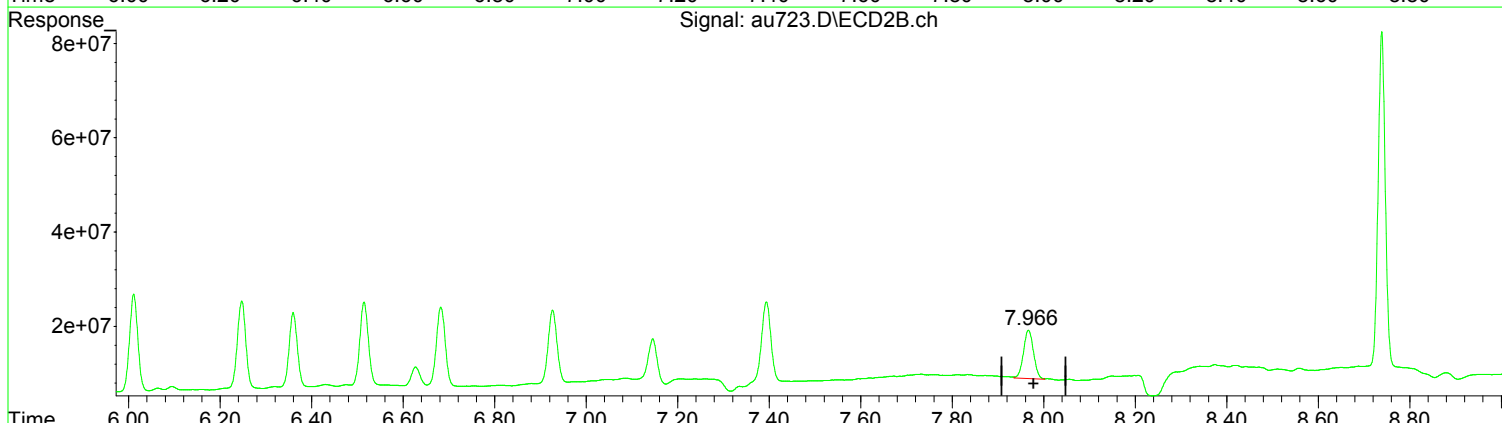
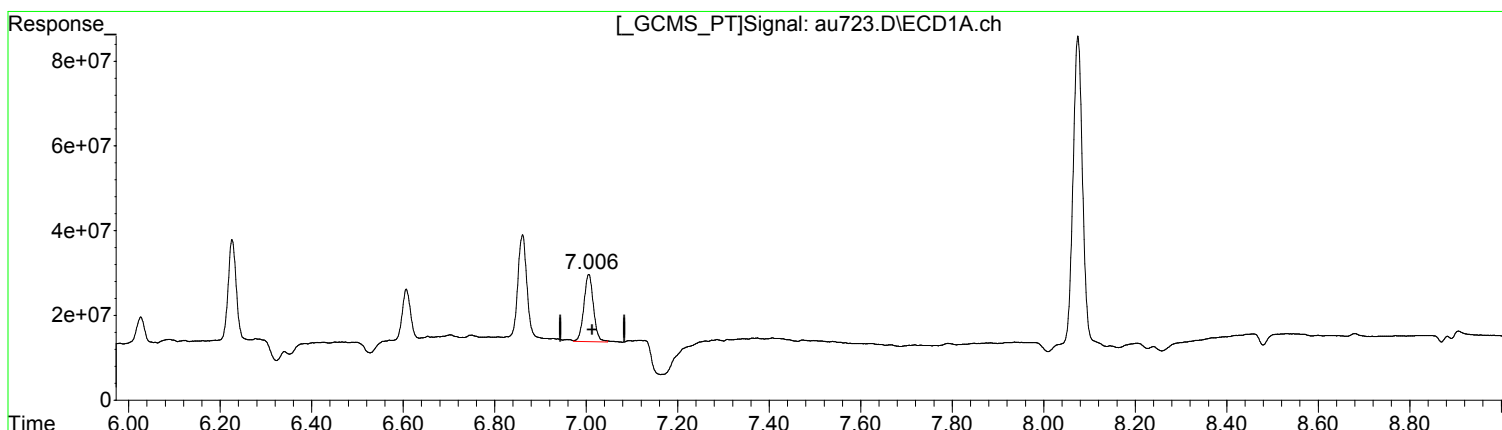
Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) Mirex (tc)  
7.005min 15.320 ug/l m  
response 230525514

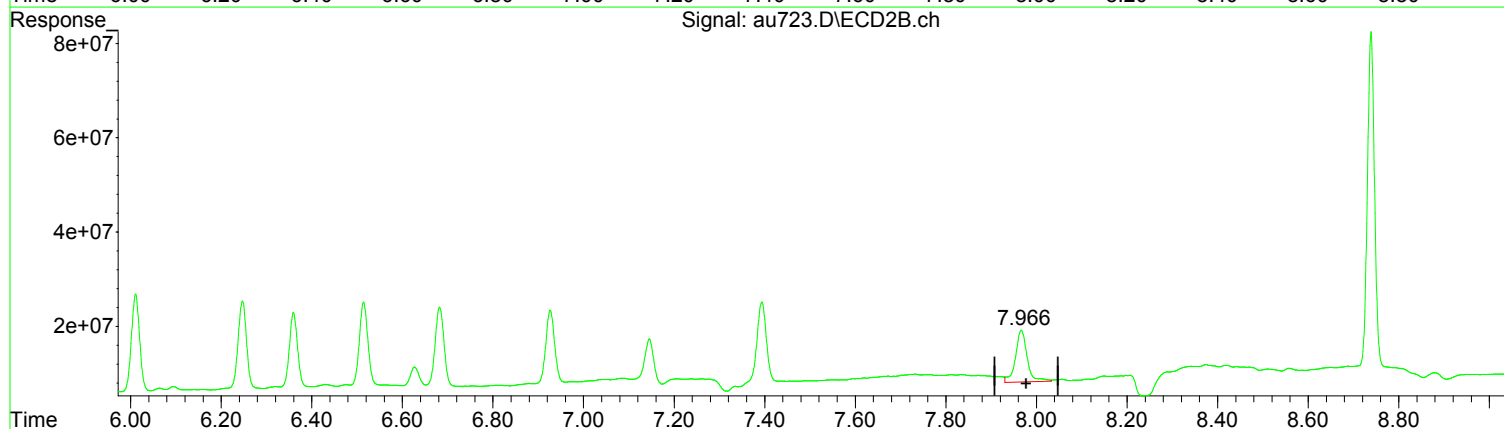
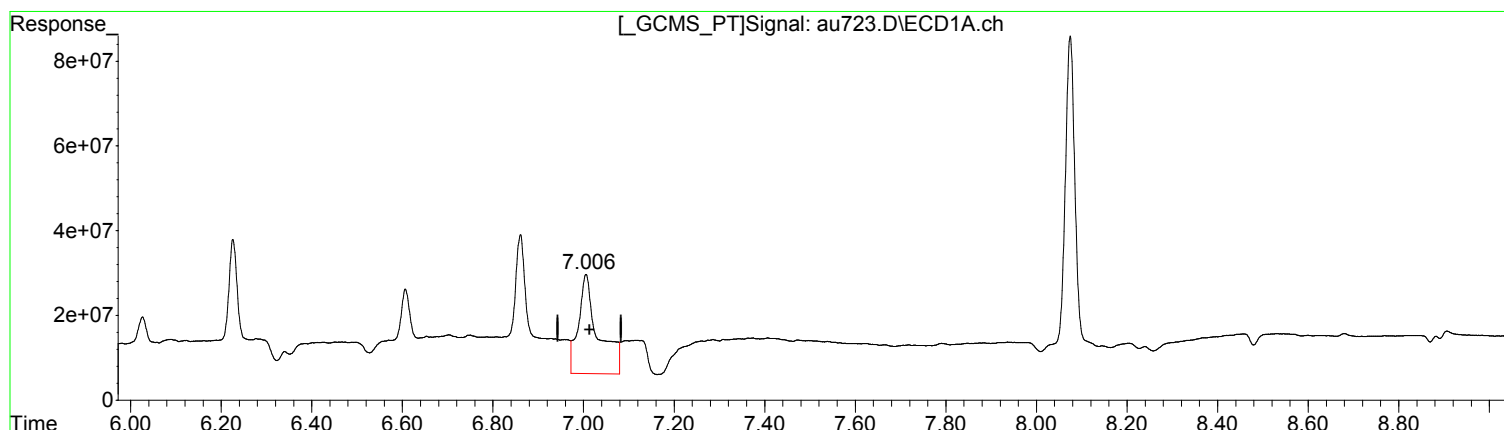
(25) Mirex #2 (tc)  
7.966min 14.625 ug/l m  
response 154912833

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(25) Mirex (tc)  
7.006min 47.510 ug/l  
response 714896412

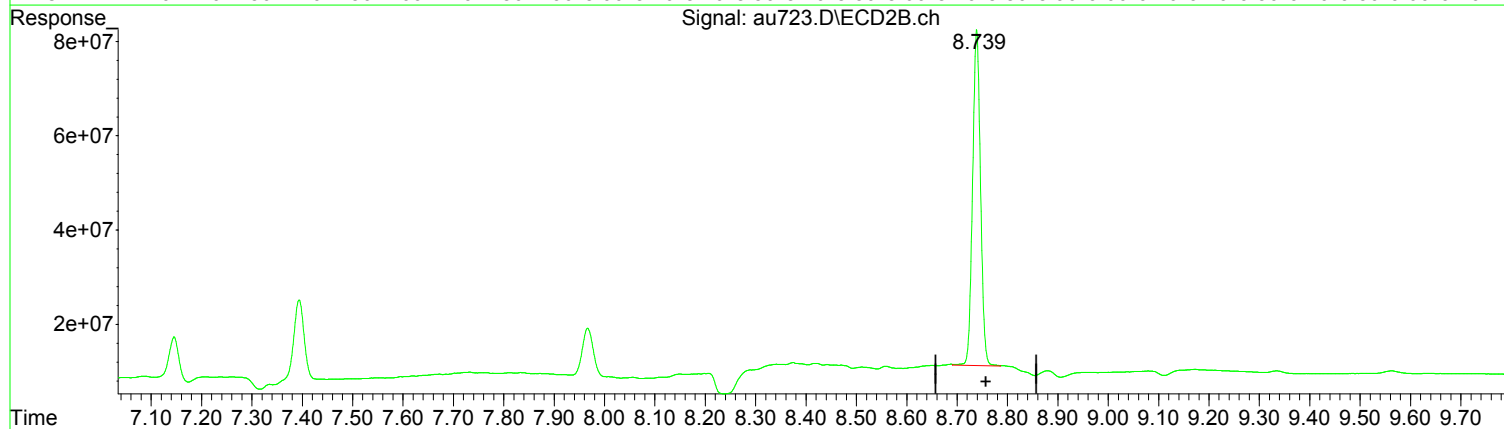
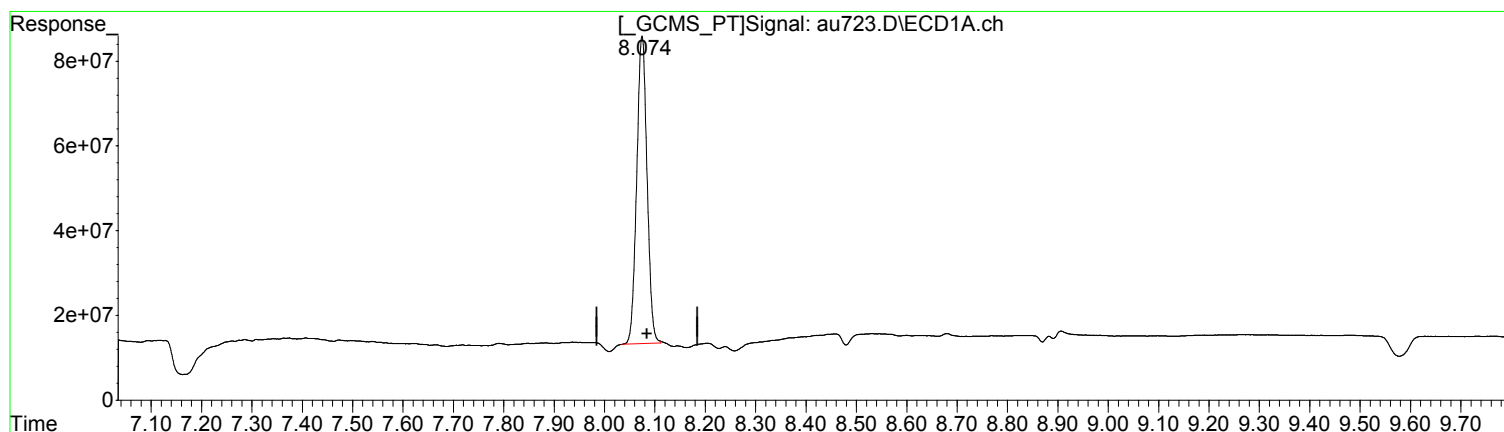
(25) Mirex #2 (tc)  
7.967min 18.535 ug/l  
response 196328567

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.074min 70.356 ug/l m  
response 1034465983

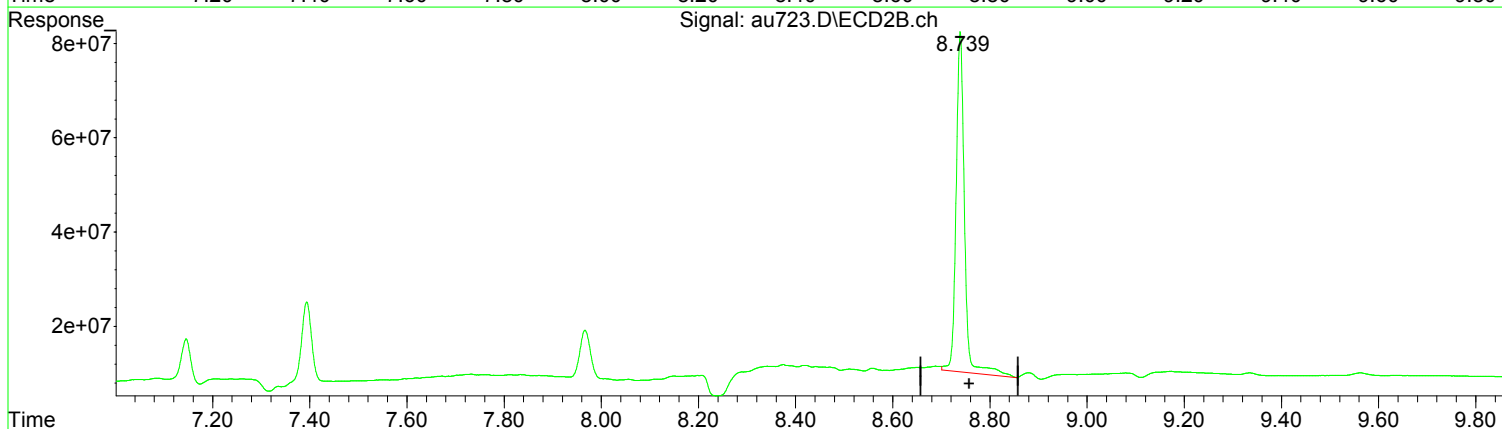
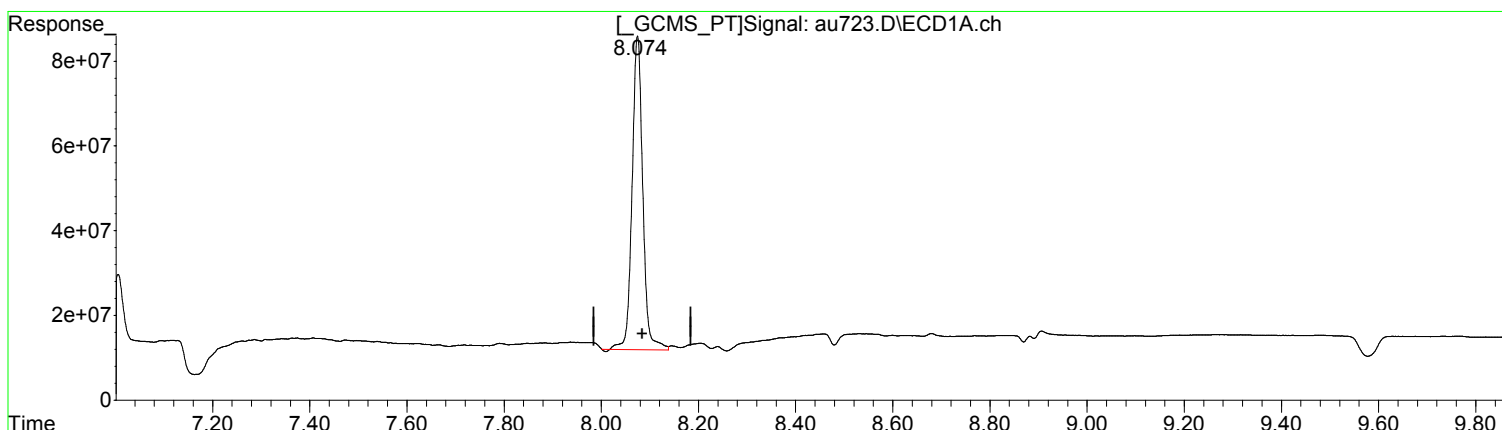
(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.739min 70.534 ug/l m  
response 778348314

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.075min 76.784 ug/l  
response 1128980103

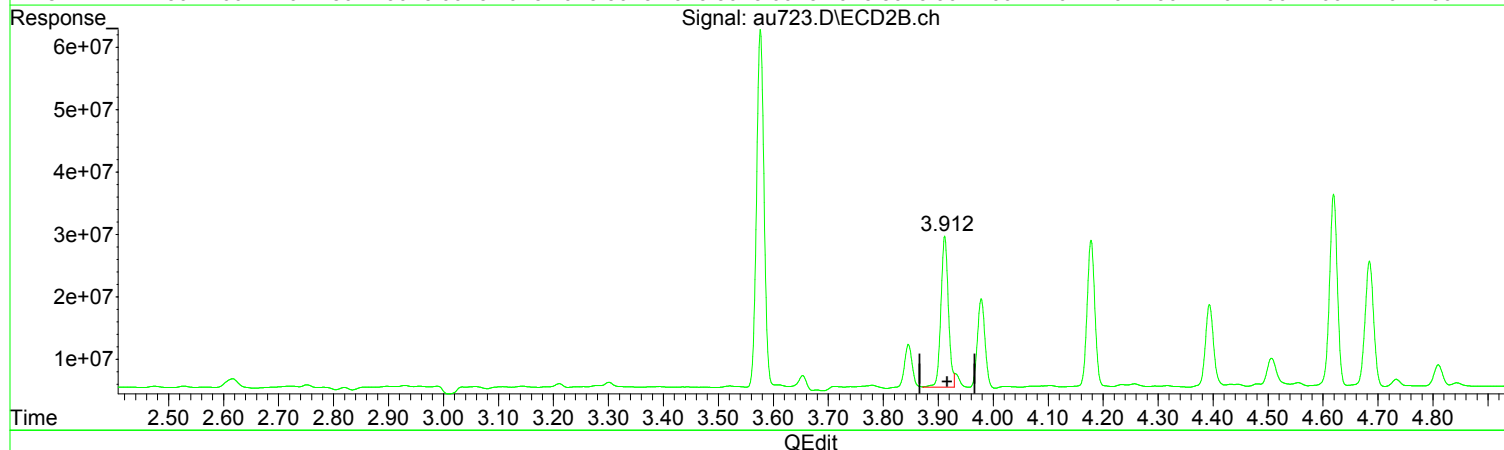
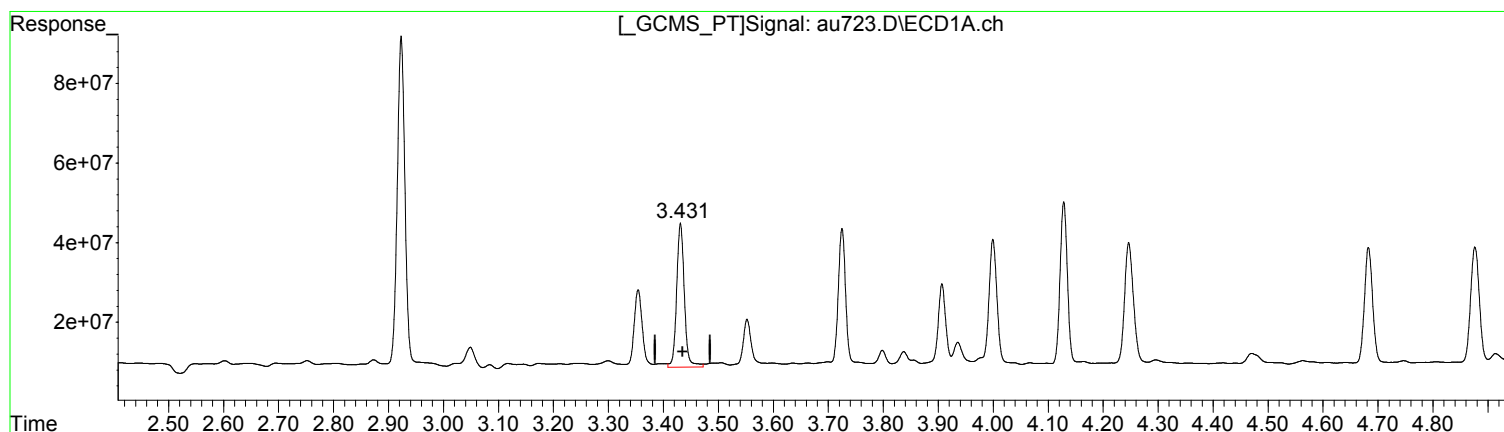
(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.739min 78.161 ug/l  
response 862512827

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)  
3.431min 11.151 ug/l  
response 351982616

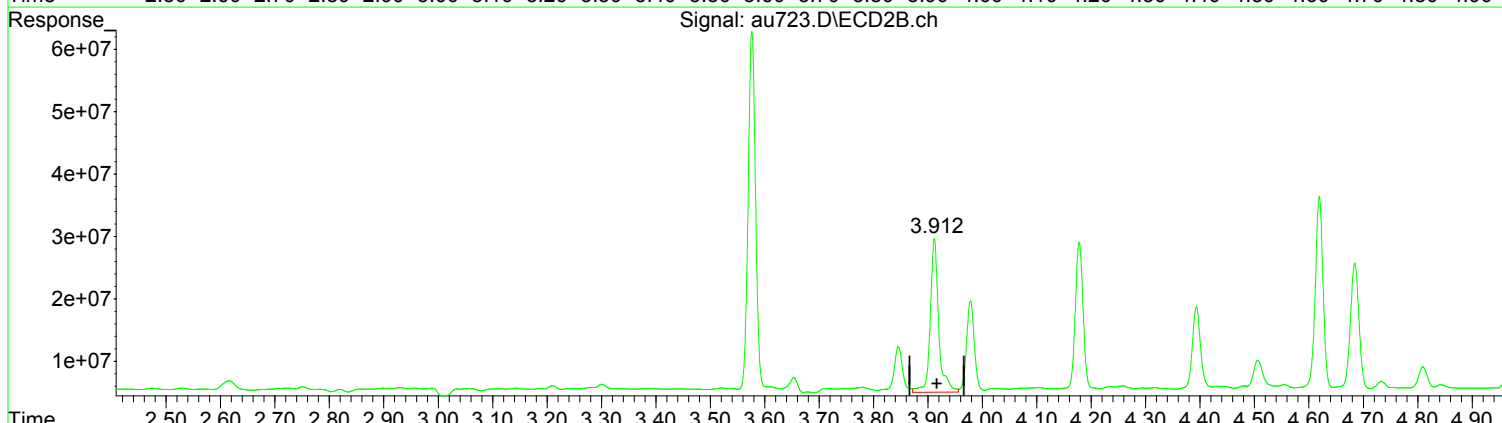
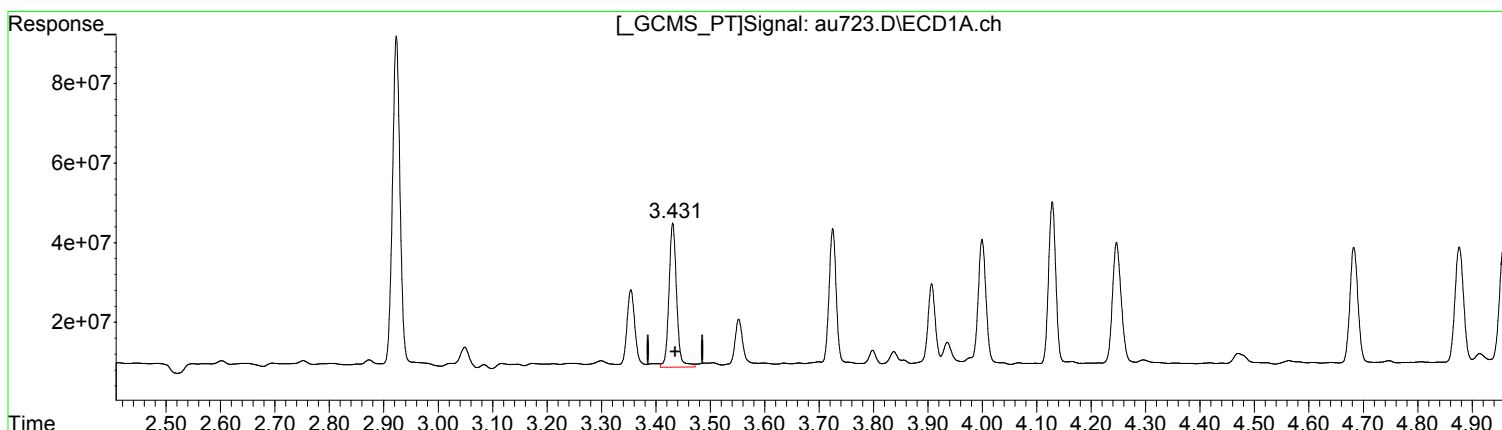
(3) alpha-BHC #2 (tc)  
3.912min 10.710 ug/l m  
response 230715756

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(3) alpha-BHC (tc)  
3.431min 11.151 ug/l  
response 351982616

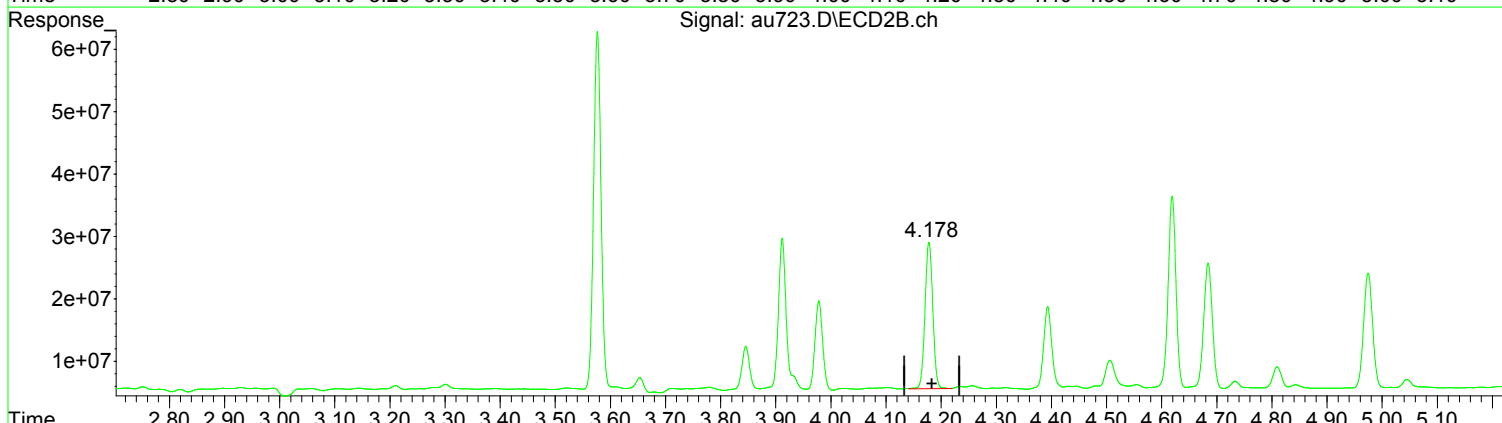
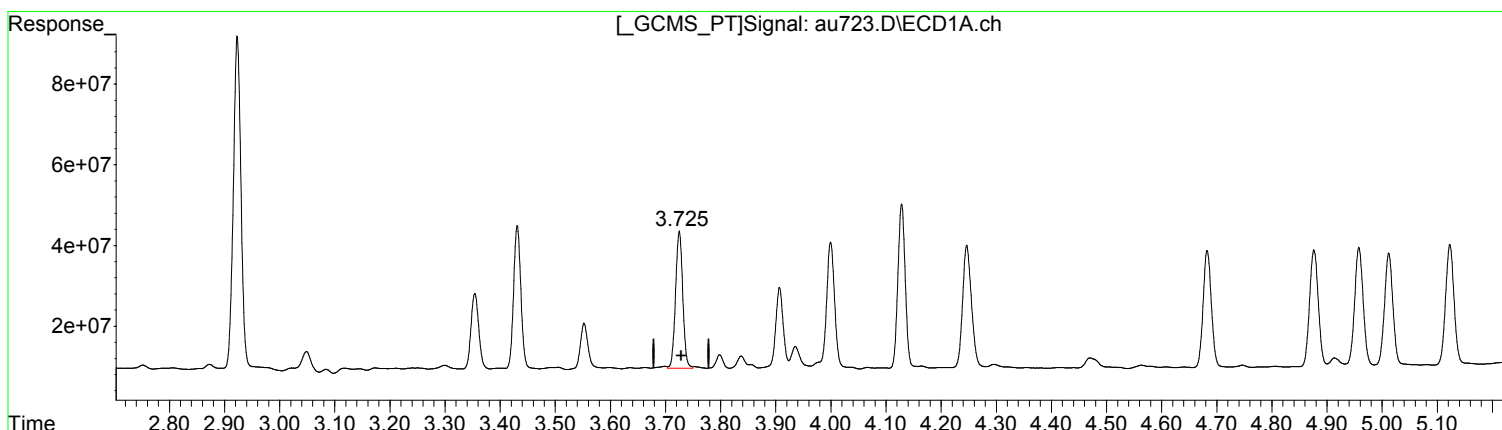
(3) alpha-BHC #2 (tc)  
3.912min 12.368 ug/l  
response 266439832

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.725min 11.287 ug/l m  
response 307956818

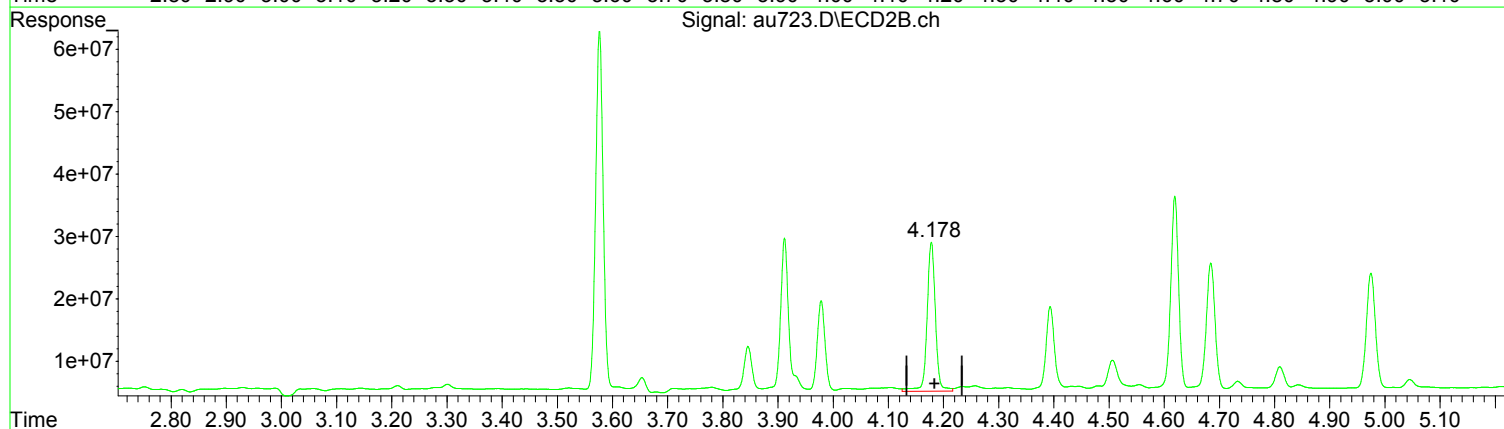
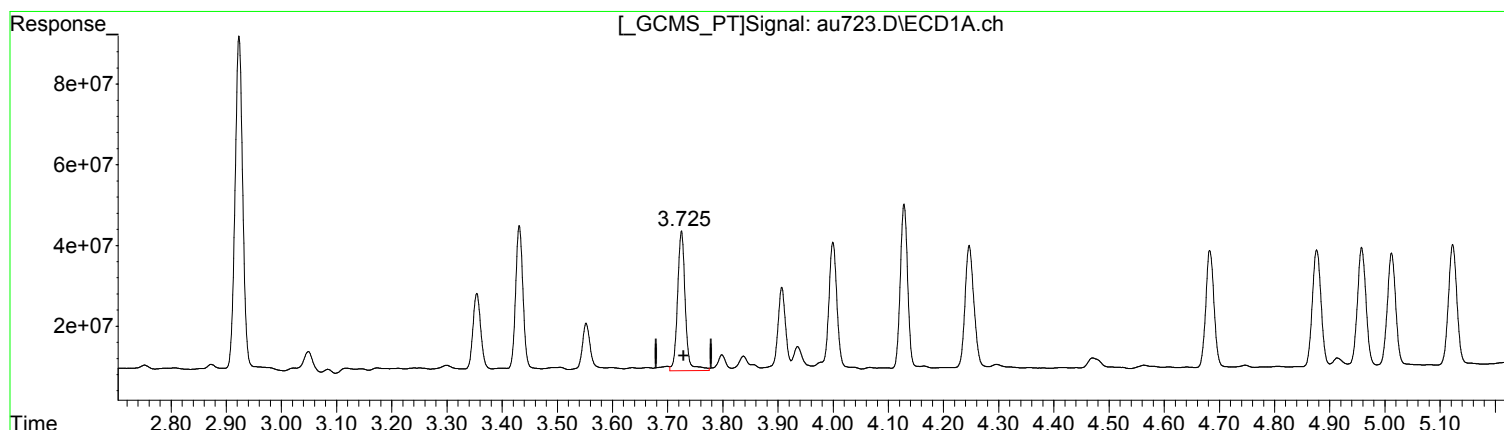
(4) gamma-BHC (L #2 (tcm)  
4.178min 11.824 ug/l m  
response 230964804

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au723.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:40 pm  
Operator : m.pedro  
Sample : rq1801536-02  
Misc : 308673  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:24 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.725min 12.347 ug/l  
response 336884659

(4) gamma-BHC (L #2 (tcm)  
4.178min 12.910 ug/l  
response 252164054

Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au723.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 3:40 pm  
 Operator : m.pedro  
 Sample : rql801536-02  
 Misc : 308673  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:02:24 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

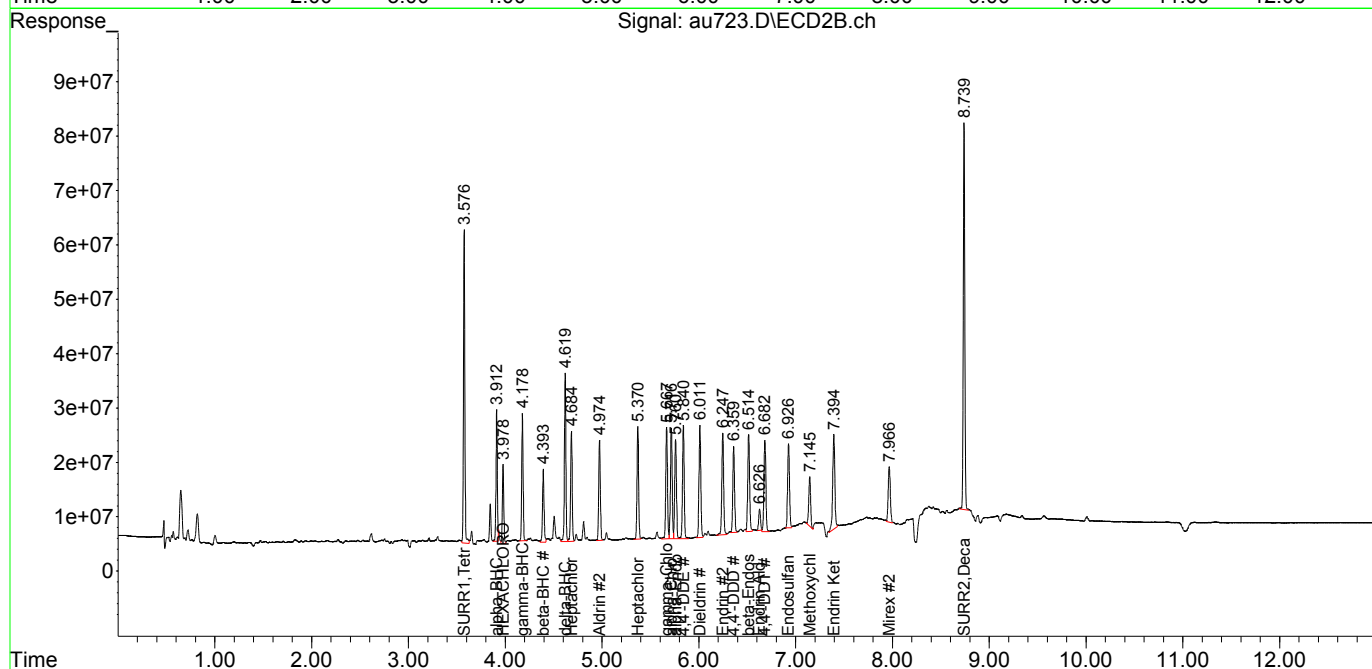
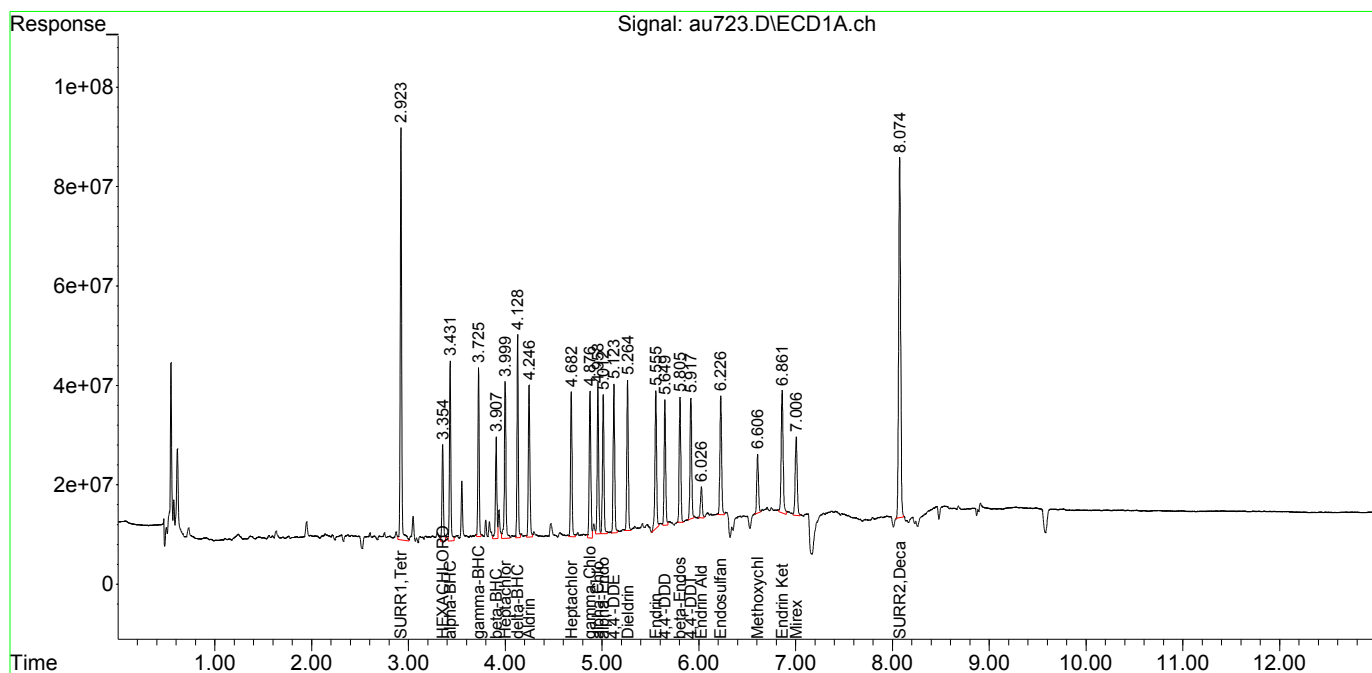
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.577	837.4E6	560.9E6	35.932	36.372
Spiked Amount	100.000 Range	30 - 150	Recovery	=	35.93%	36.37%
26) S SURR2,Dec...	8.074	8.739	1034.5E6	778.3E6	70.356m	70.534m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	70.36%	70.53%
Target Compounds						
2) TC HEXACHLOR...	3.354	3.978	205.5E6	146.6E6	10.212	10.097
3) tc alpha-BHC	3.431	3.912	352.0E6	230.7E6	11.151	10.710m
4) tcm gamma-BHC (L	3.725	4.178	308.0E6	231.0E6	11.287m	11.824m
5) tcm Heptachlor	4.000	4.685	344.6E6	227.8E6	13.133	11.879
6) tcm Aldrin	4.247	4.975	348.0E6	212.0E6	13.879	12.131
7) tc beta-BHC	3.907	4.394	205.0E6	147.4E6	15.808	16.018
8) tc delta-BHC	4.129	4.619	384.9E6	315.9E6	14.597	16.168
9) tc Heptachlor E	4.683	5.370	311.6E6	244.8E6	14.249	14.829
10) tc alpha-Endosu	5.012	5.760	303.2E6	230.4E6	14.497m	15.597
11) tc gamma-Chlord	4.877	5.667	341.0E6	259.4E6	15.366	15.762
12) tc alpha-Chlord	4.958	5.716	320.5E6	252.1E6	15.052m	15.625
13) tc 4,4'-DDE	5.123	5.840	325.9E6	256.4E6	15.597m	16.999
14) tcm Dieldrin	5.264	6.011	334.0E6	262.2E6	14.752m	16.198m
15) tcm Endrin	5.555	6.247	334.9E6	248.8E6	16.976m	16.957m
17) tc beta-Endosul	5.805	6.514	290.2E6	238.4E6	14.970m	16.652m
18) tc 4,4'-DDD	5.649	6.359	281.2E6	197.5E6	15.108m	15.148m
19) tcm 4,4'-DDT	5.917	6.682	289.9E6	231.3E6	16.079m	16.908m
20) tc Endrin Aldehy	6.026	6.626	78749255	50024902	4.694m	4.363m
21) tc Endosulfan S	6.226	6.926	295.5E6	209.6E6	16.328m	16.038m
22) tc Methoxychlor	6.606	7.145	146.5E6	122.9E6	16.384m	16.567m
24) tc Endrin Keton	6.861	7.394	347.9E6	264.7E6	17.838m	17.383m
25) tc Mirex	7.005	7.966	230.5E6	154.9E6	15.320m	14.625m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au723.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 3:40 pm  
 Operator : m.pedro  
 Sample : rql801536-02  
 Misc : 308673  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:02:24 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

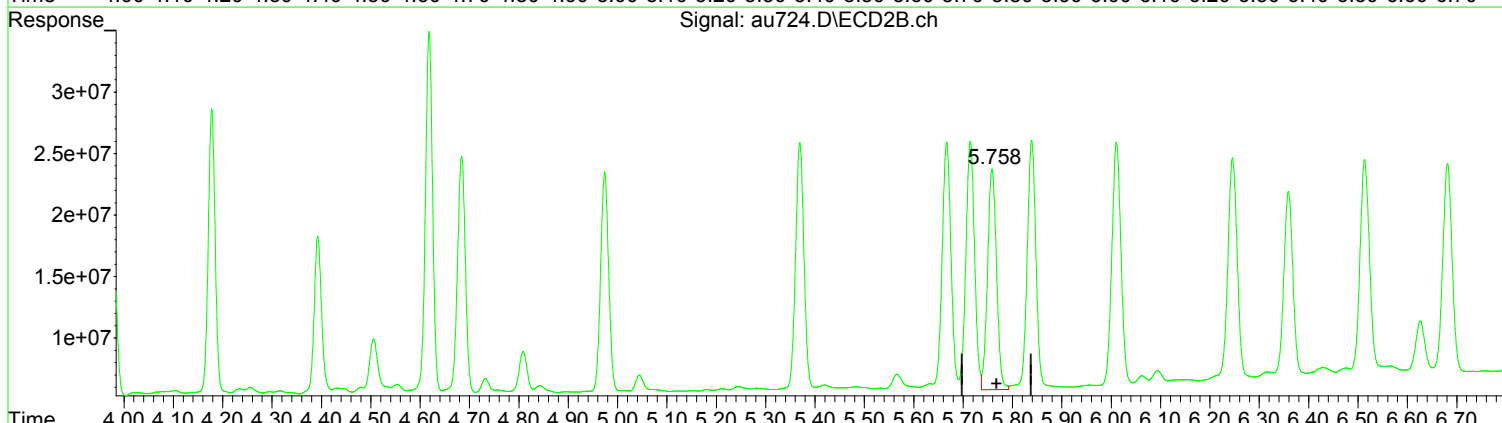
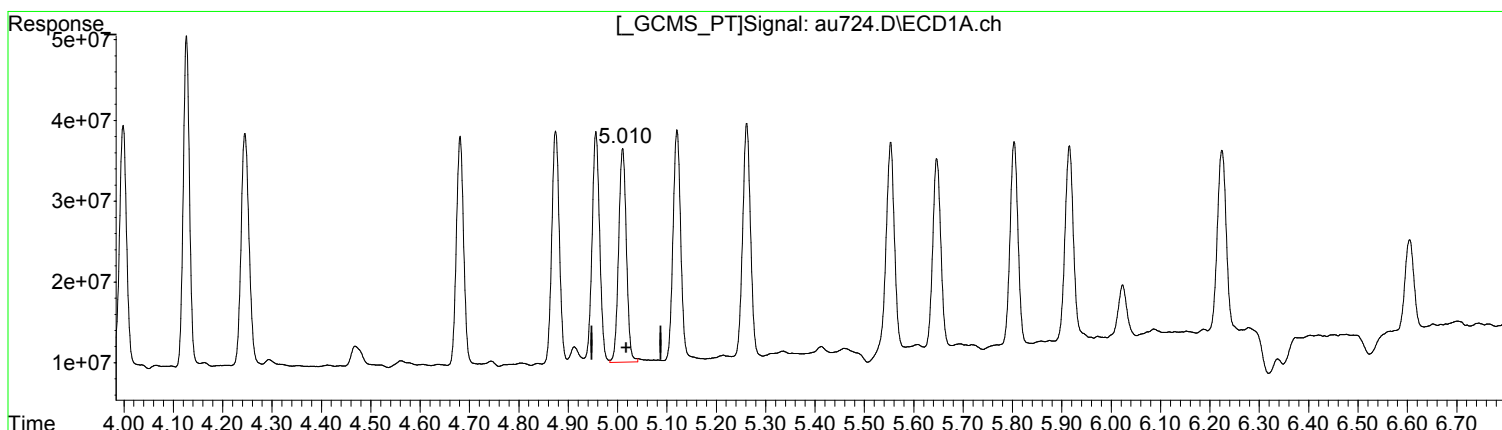
Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP  
 Signal #1 Info : 0.32mm 30m  
 Signal #2 Phase : STx-CLPII  
 Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(10) alpha-Endosu (tc)  
5.010min 13.801 ug/l m  
response 288606737

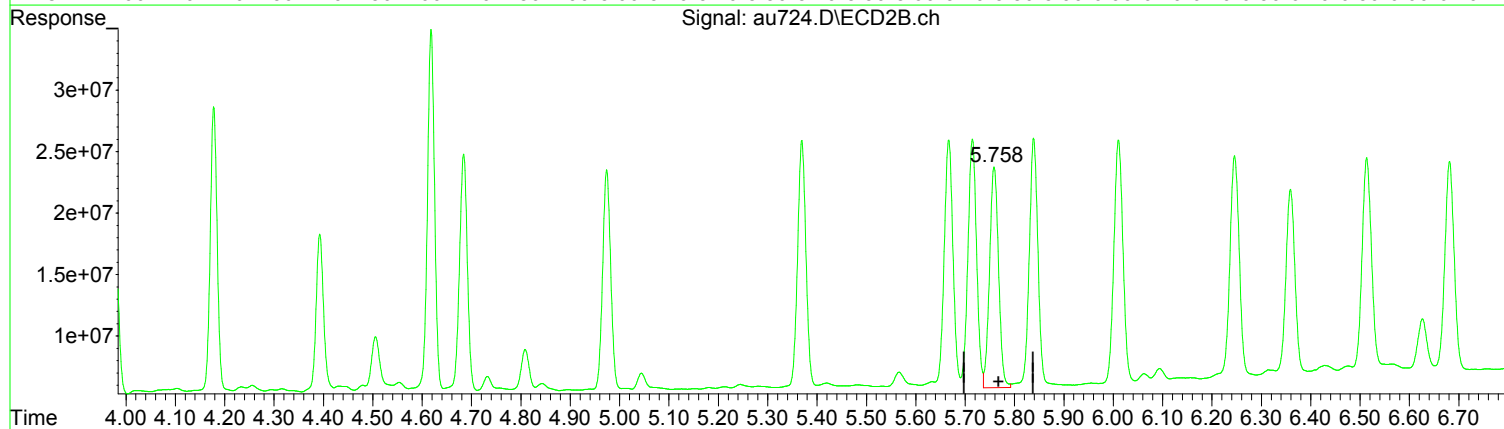
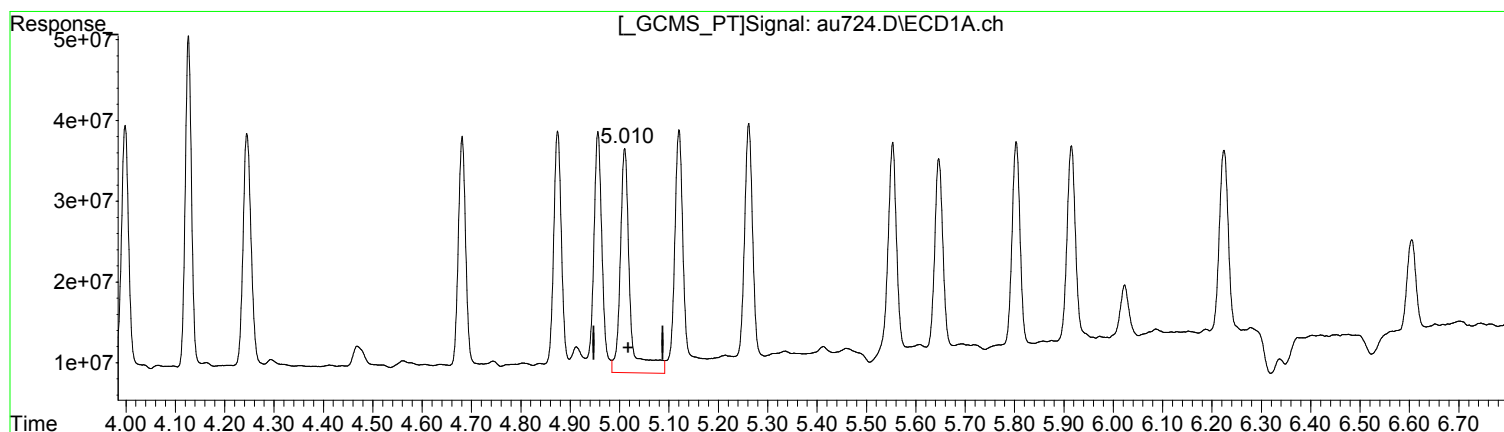
(10) alpha-Endosu #2 (tc)  
5.759min 15.406 ug/l  
response 227556964

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(10) alpha-Endosu (tc)  
5.010min 18.307 ug/l  
response 382833562

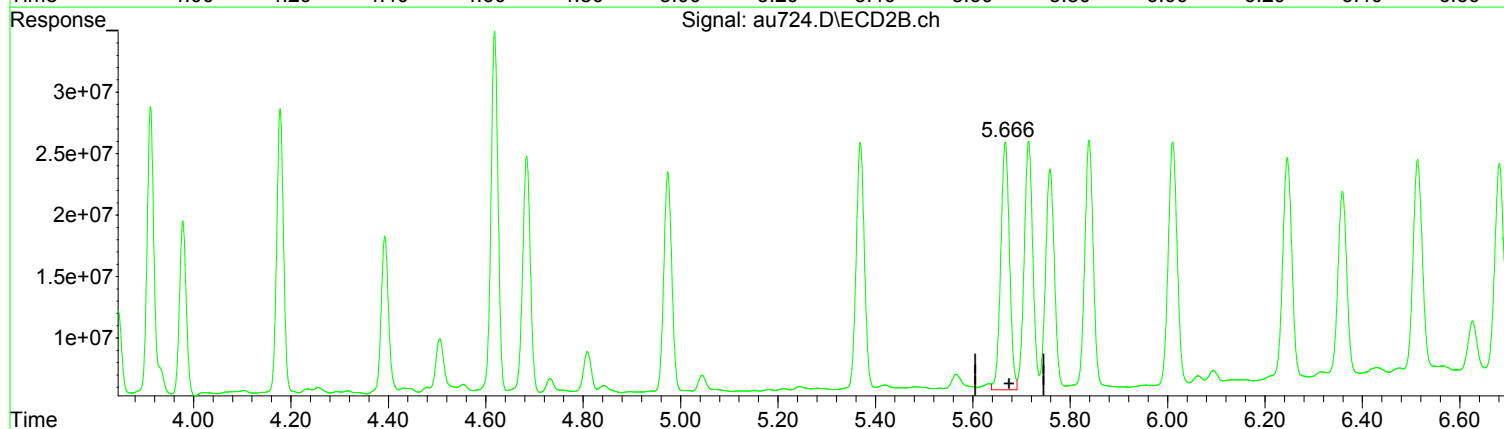
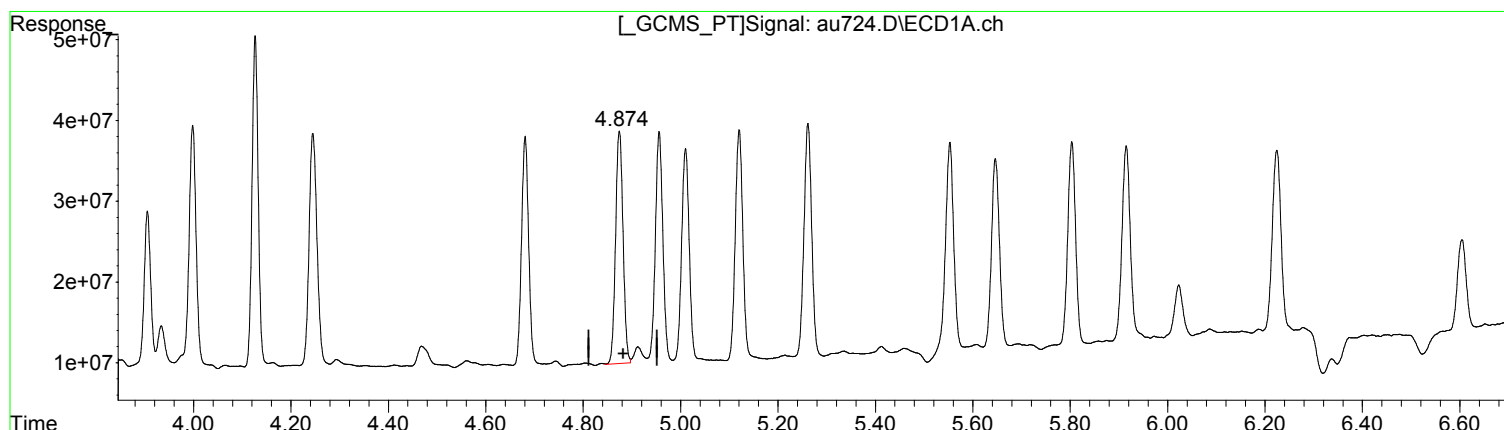
(10) alpha-Endosu #2 (tc)  
5.759min 15.406 ug/l  
response 227556964

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)  
4.874min 13.765 ug/l m  
response 305430177

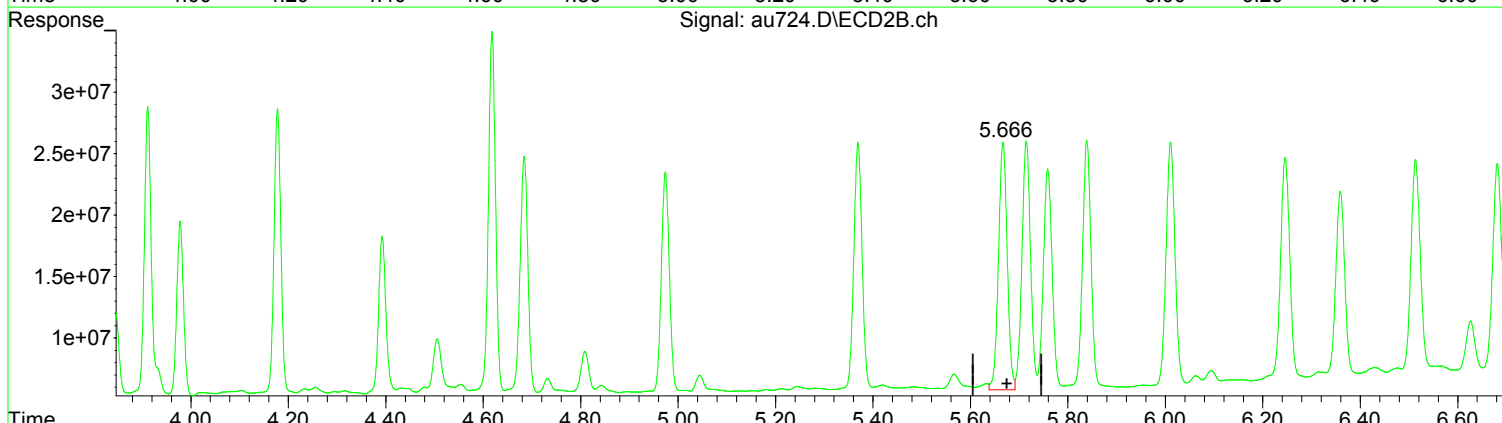
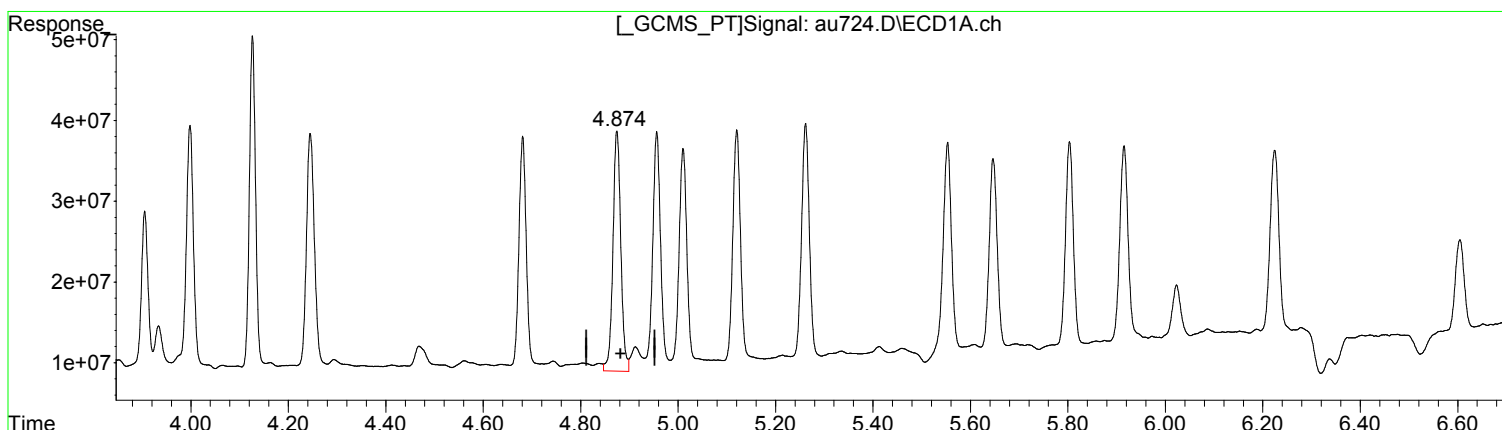
(11) gamma-Chlord #2 (tc)  
5.667min 15.226 ug/l  
response 250533485

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)  
4.875min 15.085 ug/l  
response 334717079

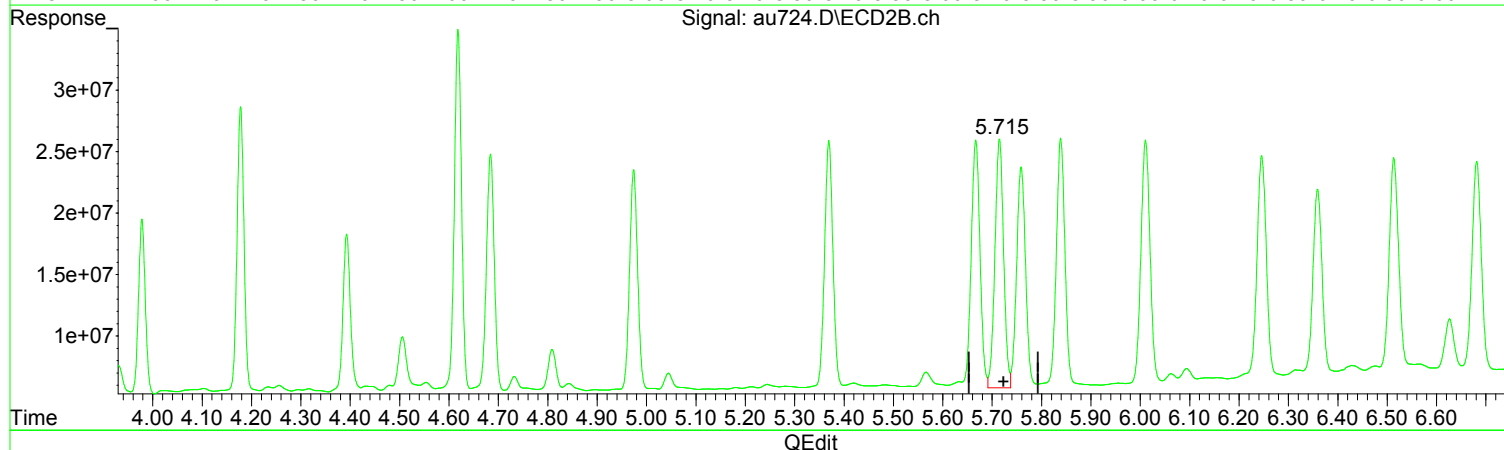
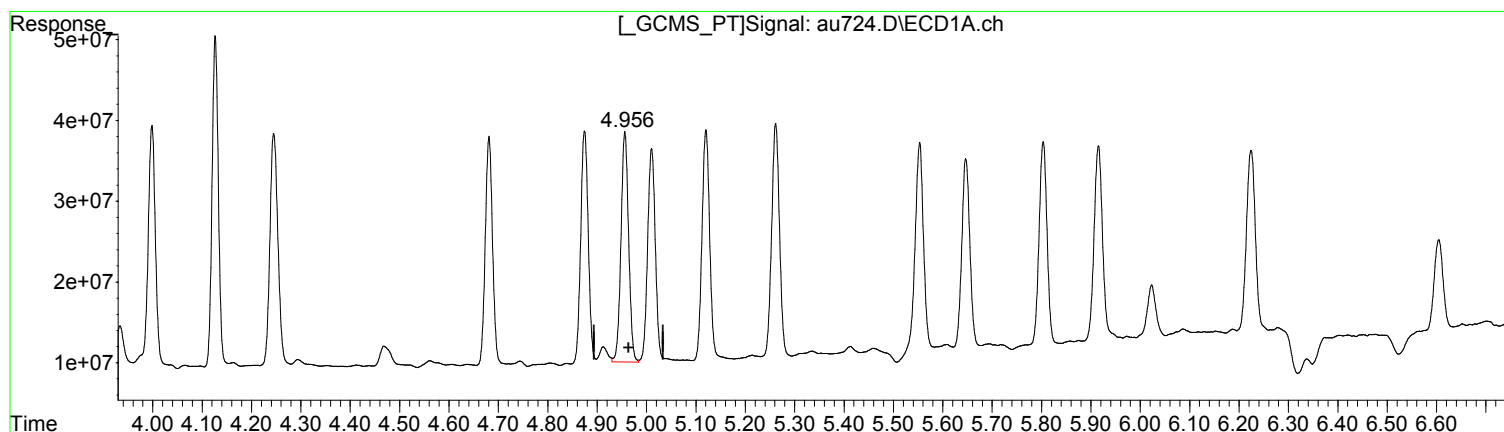
(11) gamma-Chlord #2 (tc)  
5.667min 15.226 ug/l  
response 250533485

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(12) alpha-Chlord (tc)  
4.956min 14.381 ug/l m  
response 306246483

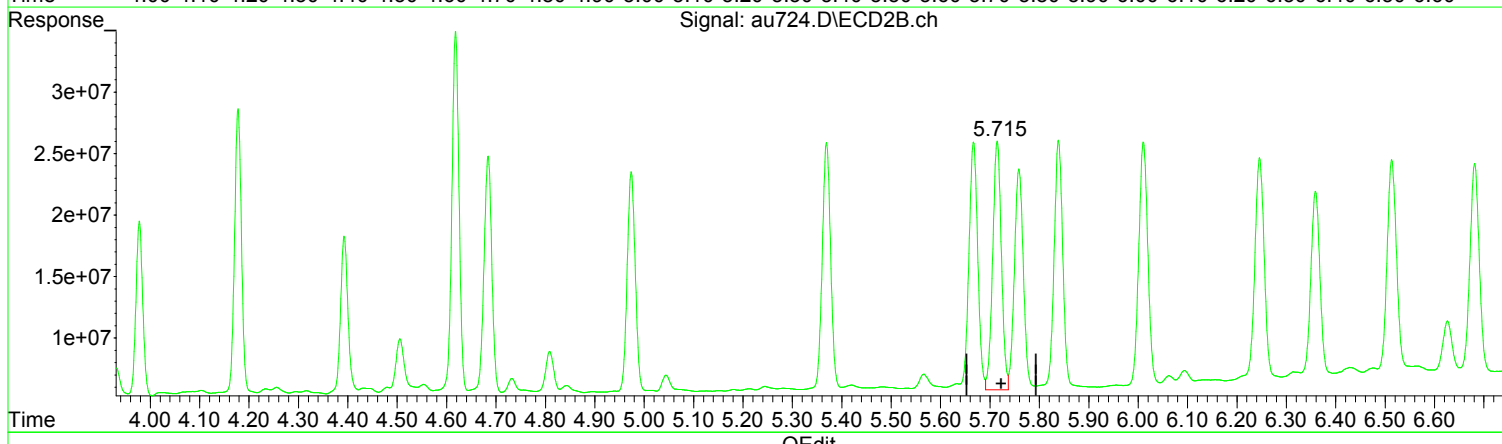
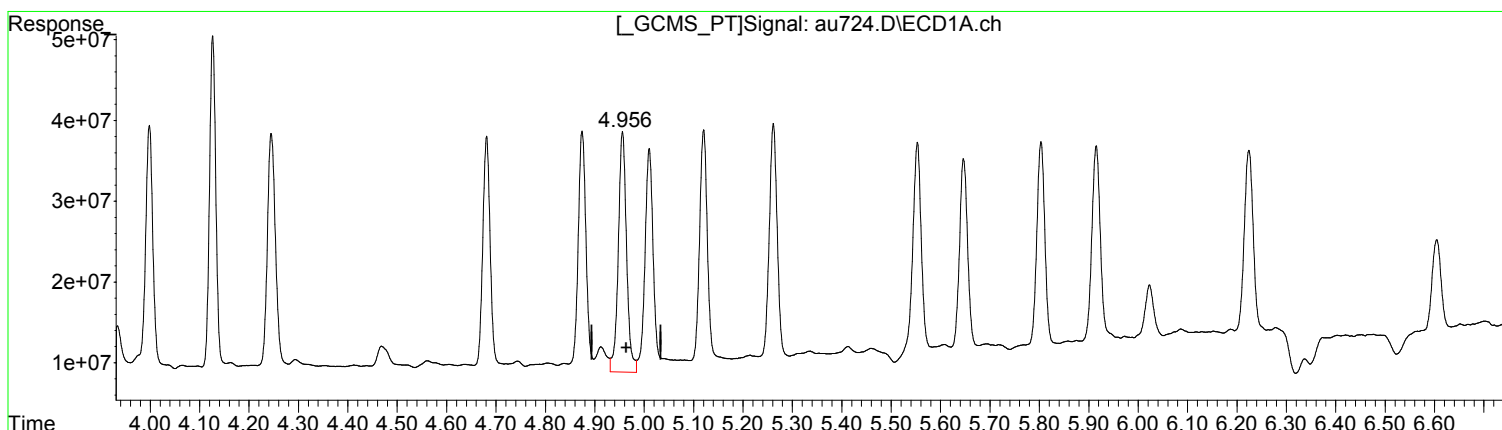
(12) alpha-Chlord #2 (tc)  
5.715min 15.321 ug/l  
response 247150136

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(12) alpha-Chlord (tc)  
4.956min 16.239 ug/l  
response 345824741

(12) alpha-Chlord #2 (tc)  
5.715min 15.321 ug/l  
response 247150136

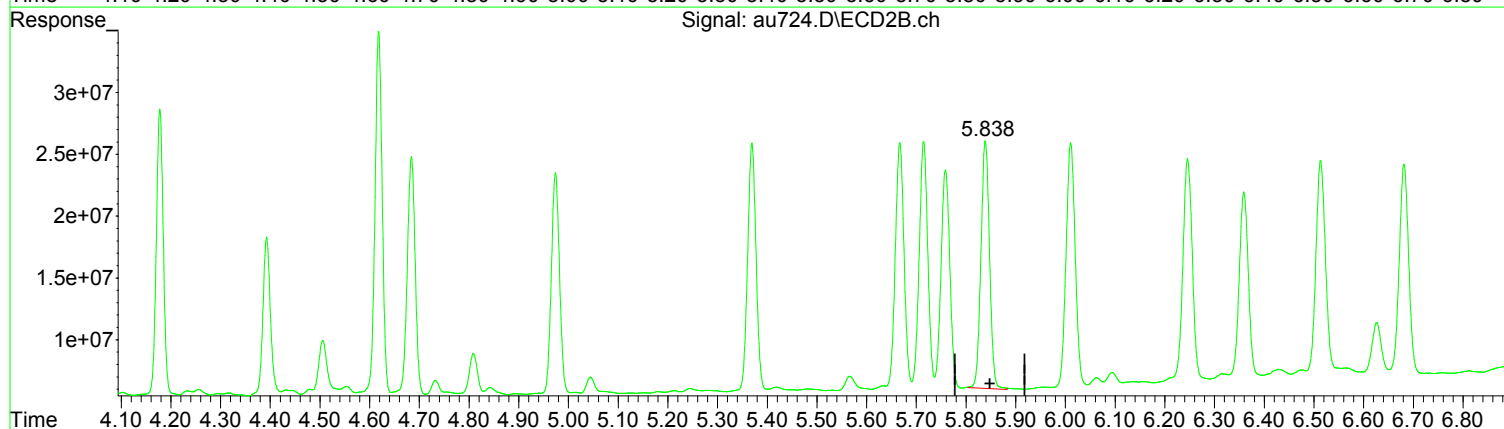
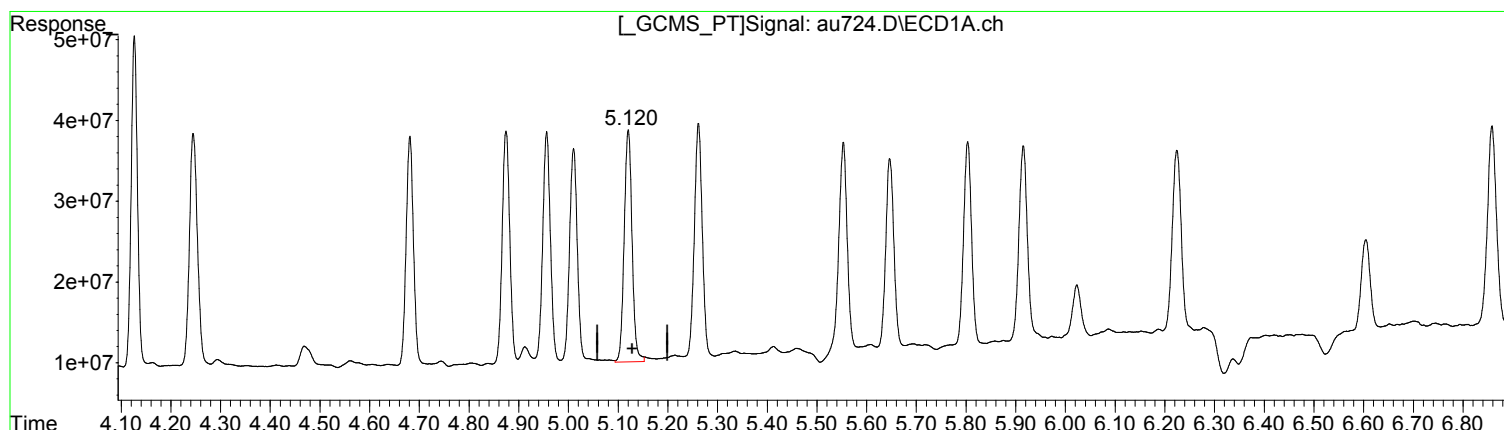
Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(13) 4,4'-DDE (tc)  
5.120min 15.113 ug/l m  
response 315785158

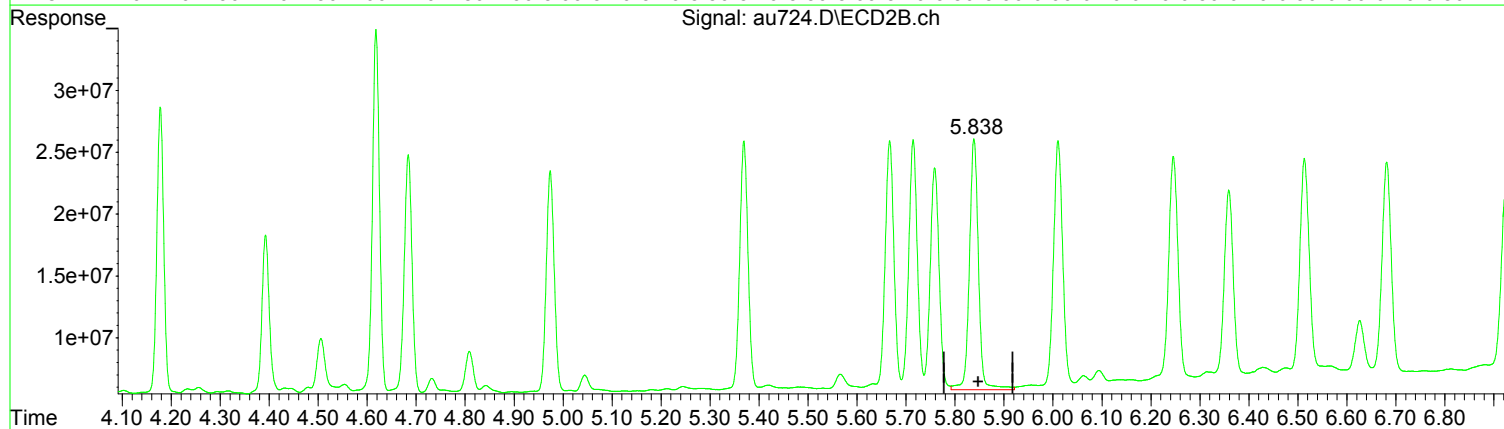
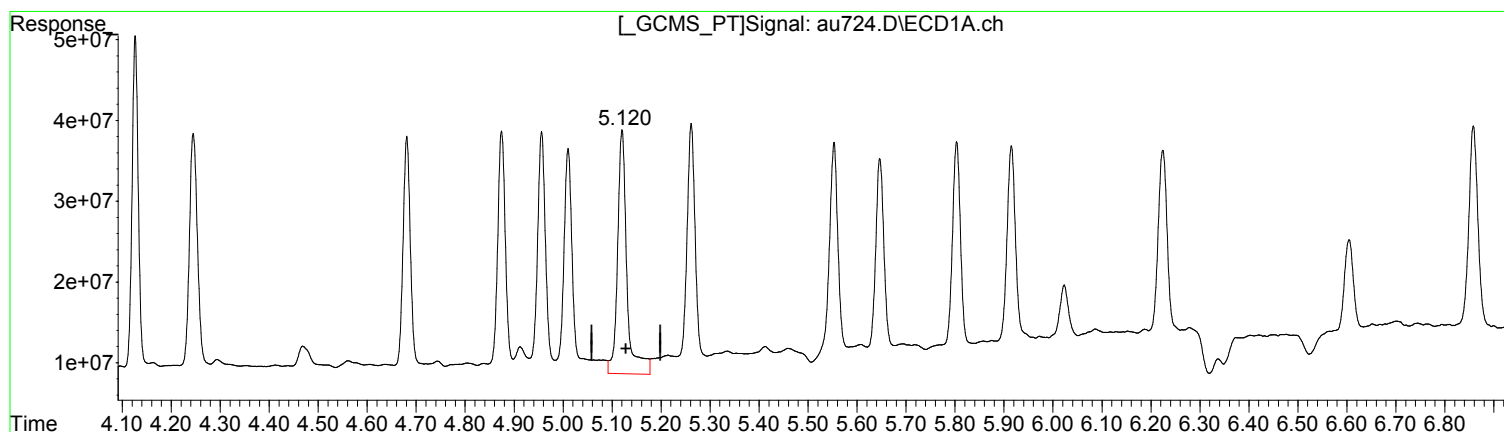
(13) 4,4'-DDE #2 (tc)  
5.838min 15.955 ug/l m  
response 240609616

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)  
5.120min 19.161 ug/l  
response 400362706

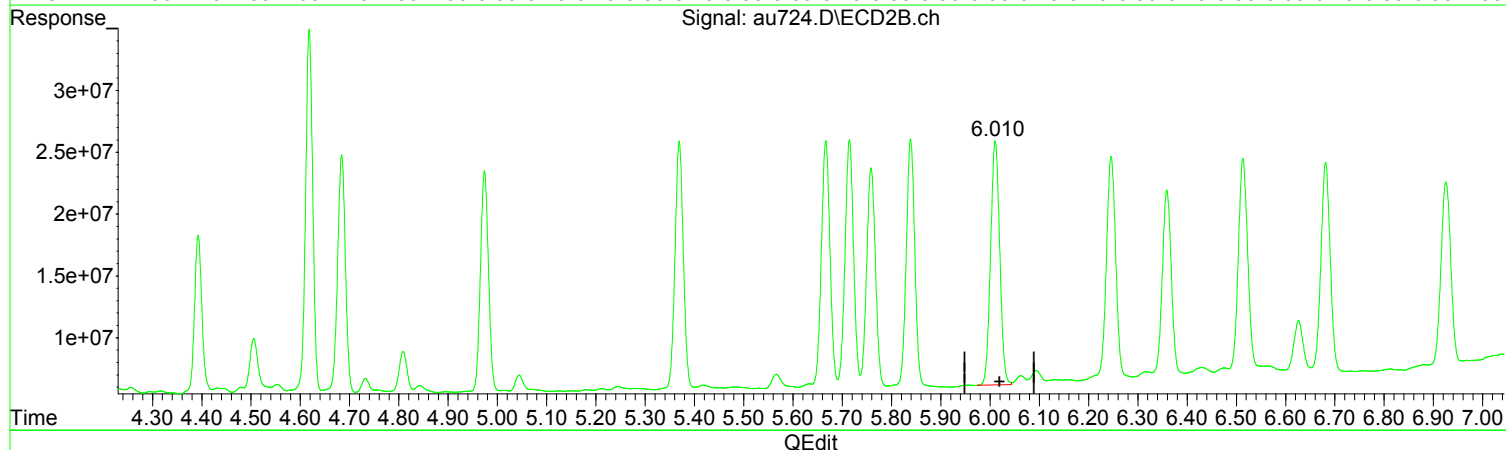
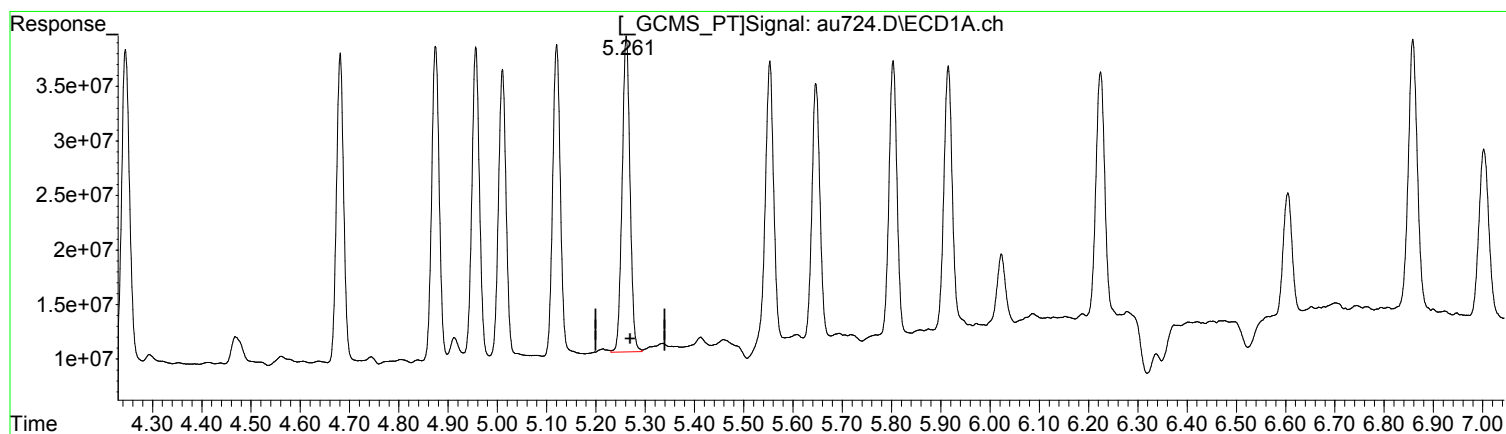
(13) 4,4'-DDE #2 (tc)  
5.839min 17.240 ug/l  
response 259975743

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.261min 14.277 ug/l m  
response 323252575

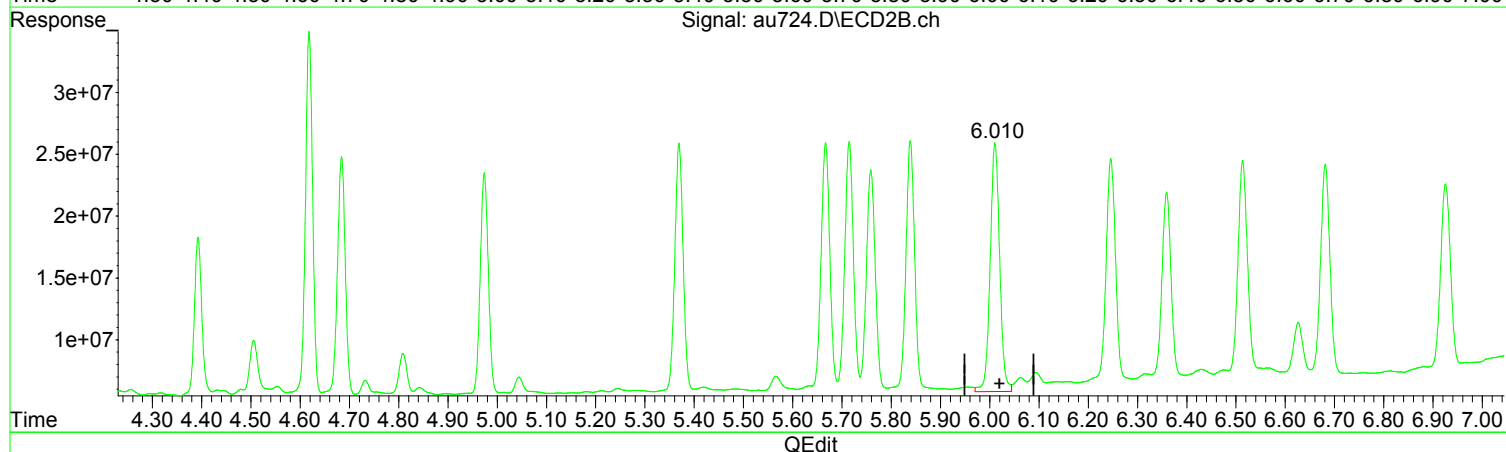
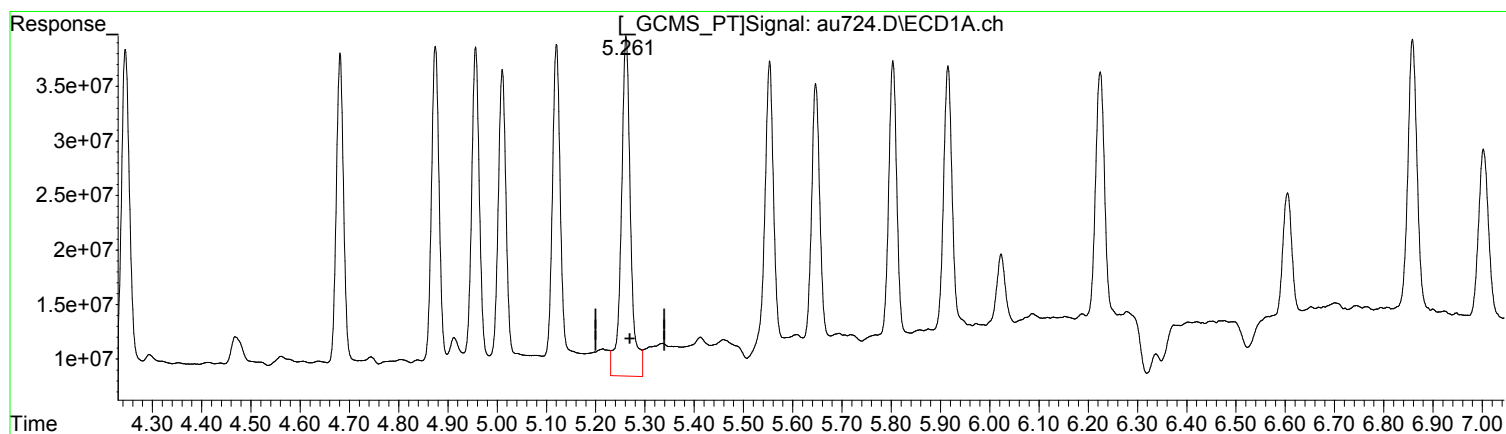
(14) Dieldrin #2 (tcm)  
6.010min 15.654 ug/l m  
response 253437283

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.262min 18.048 ug/l  
response 408638590

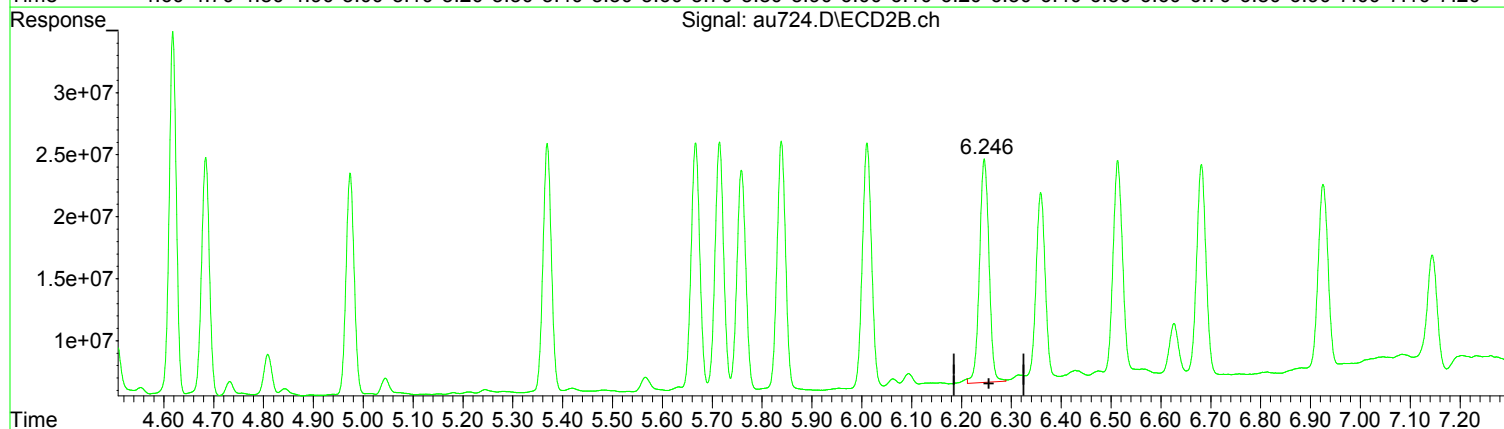
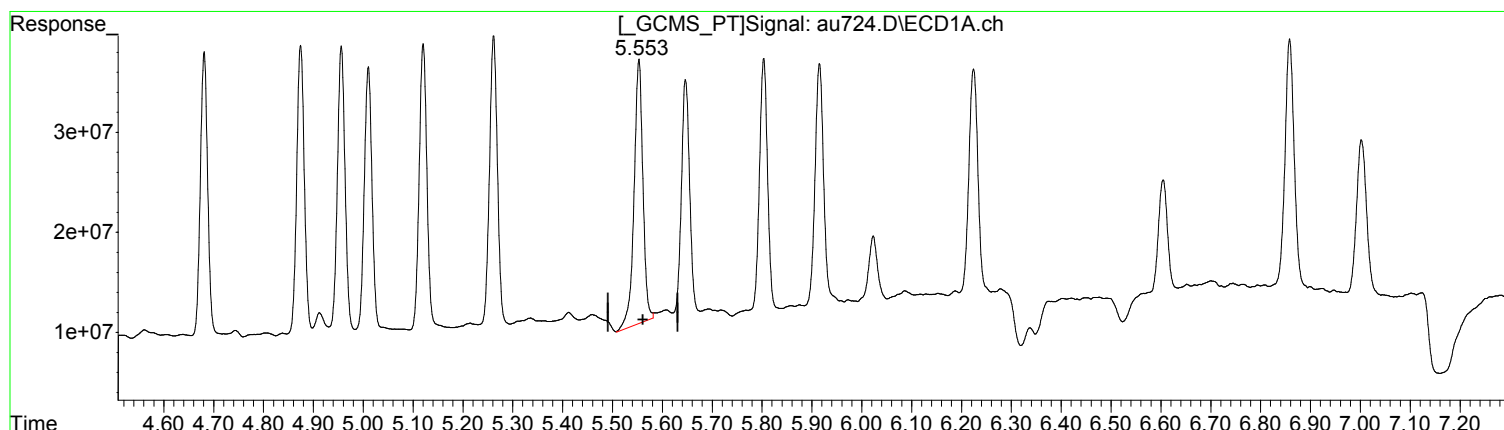
(14) Dieldrin #2 (tcm)  
6.011min 16.659 ug/l  
response 269714932

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rql801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) Endrin (tcm)  
5.553min 16.495 ug/l m  
response 325440656

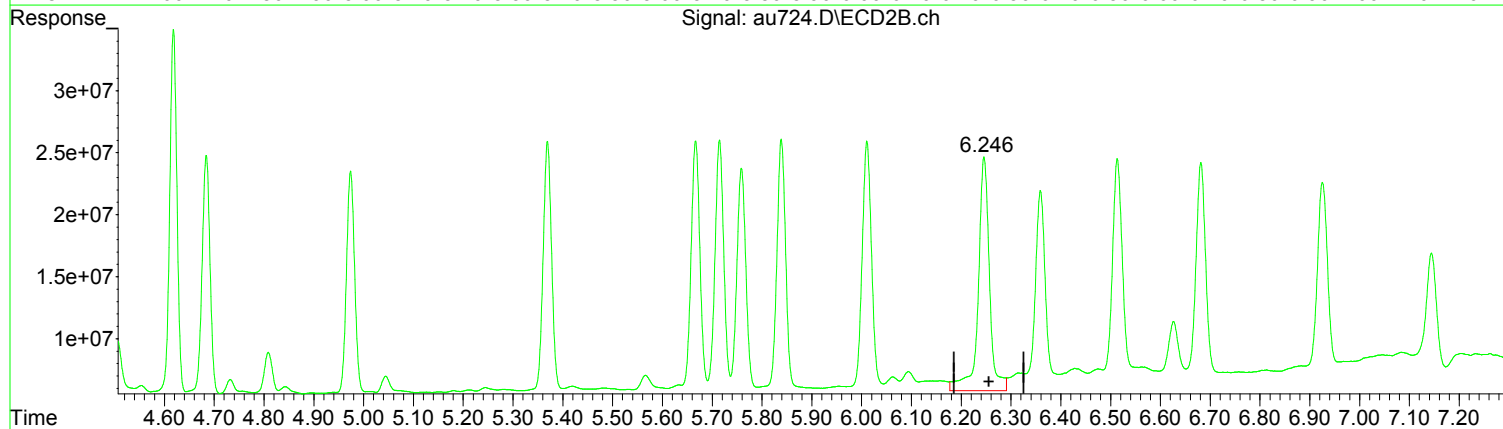
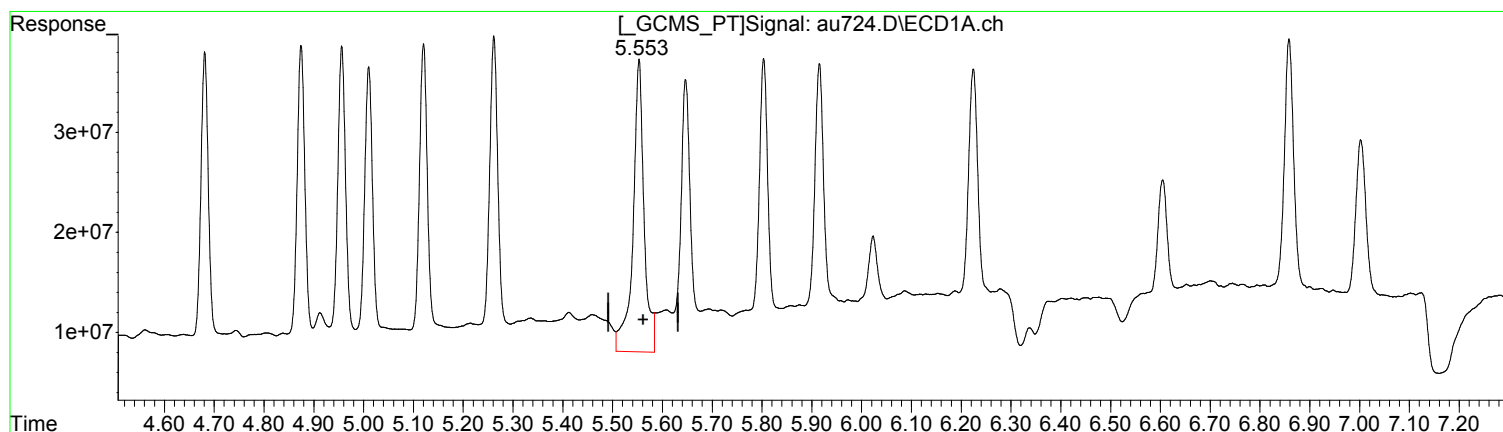
(15) Endrin #2 (tcm)  
6.245min 16.326 ug/l m  
response 239570715

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rql801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(15) Endrin (tcm)  
5.553min 22.775 ug/l  
response 449340737

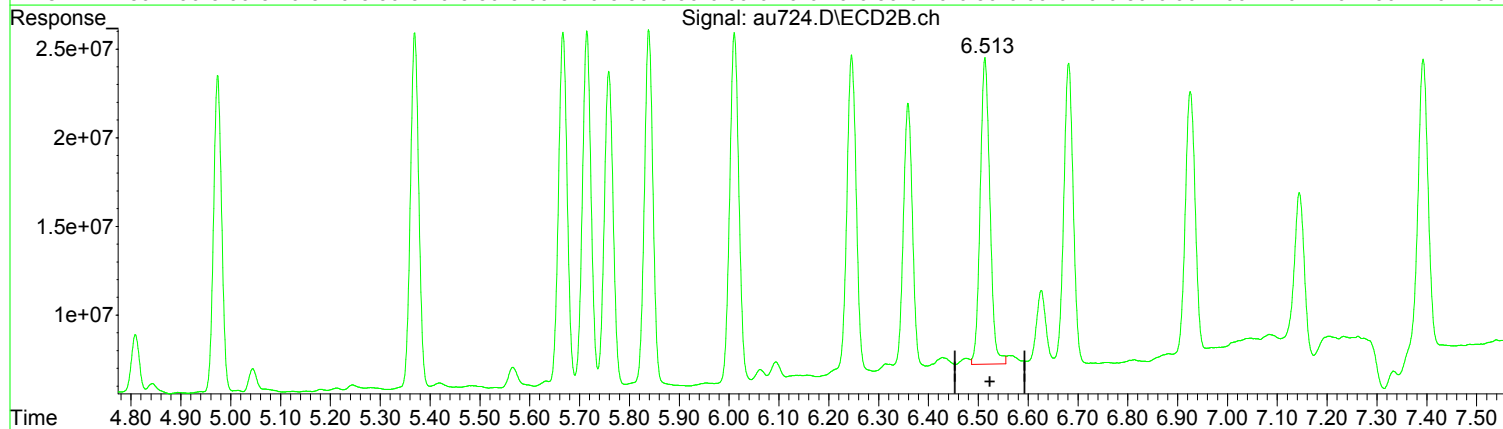
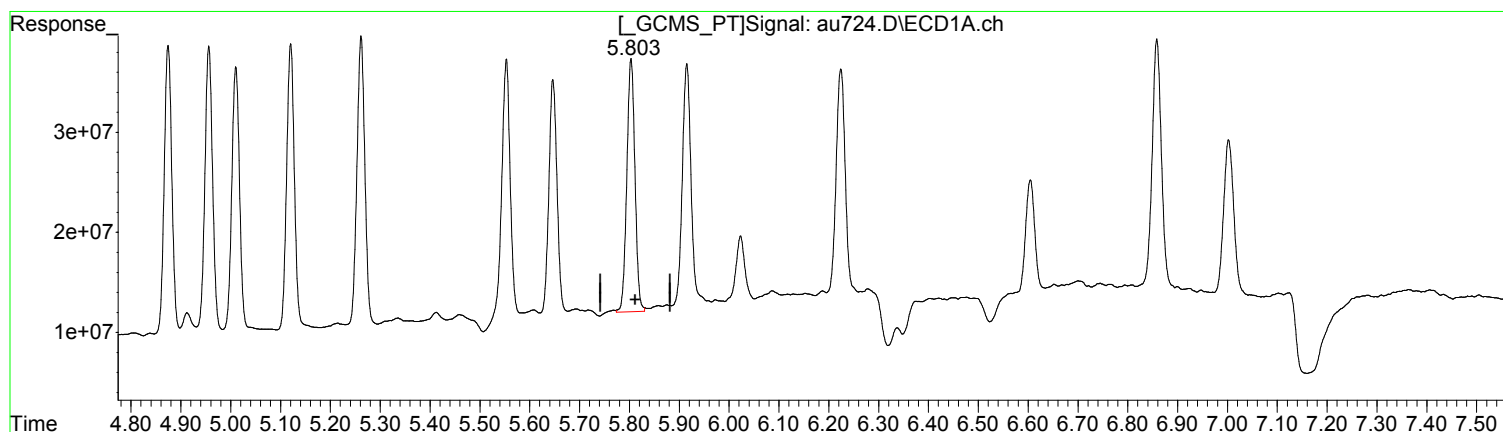
(15) Endrin #2 (tcm)  
6.246min 20.225 ug/l  
response 296787555

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) beta-Endosul (tc)  
5.803min 14.805 ug/l m  
response 286999371

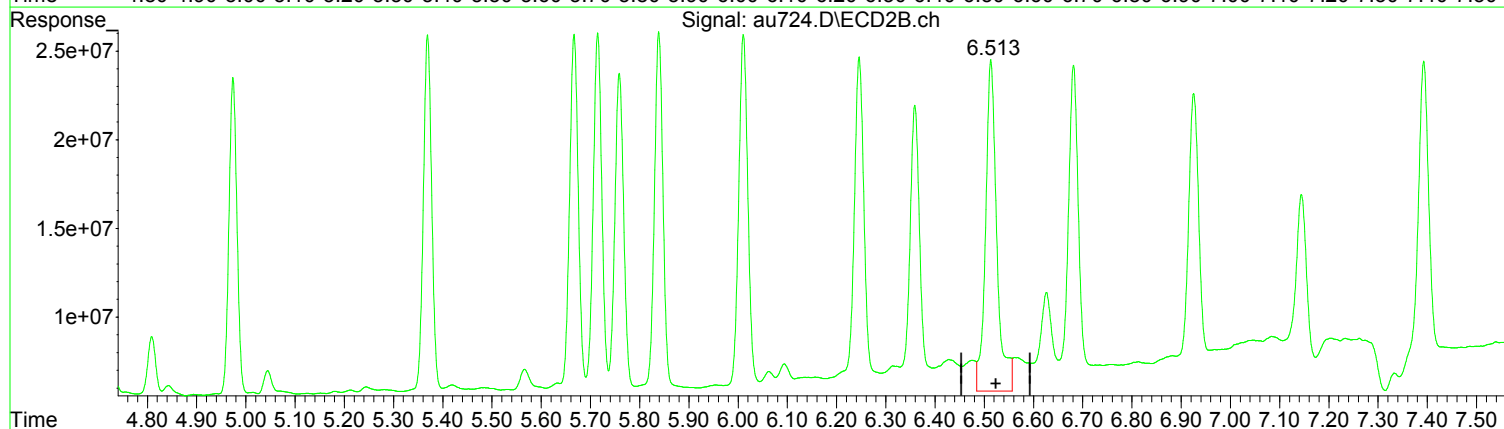
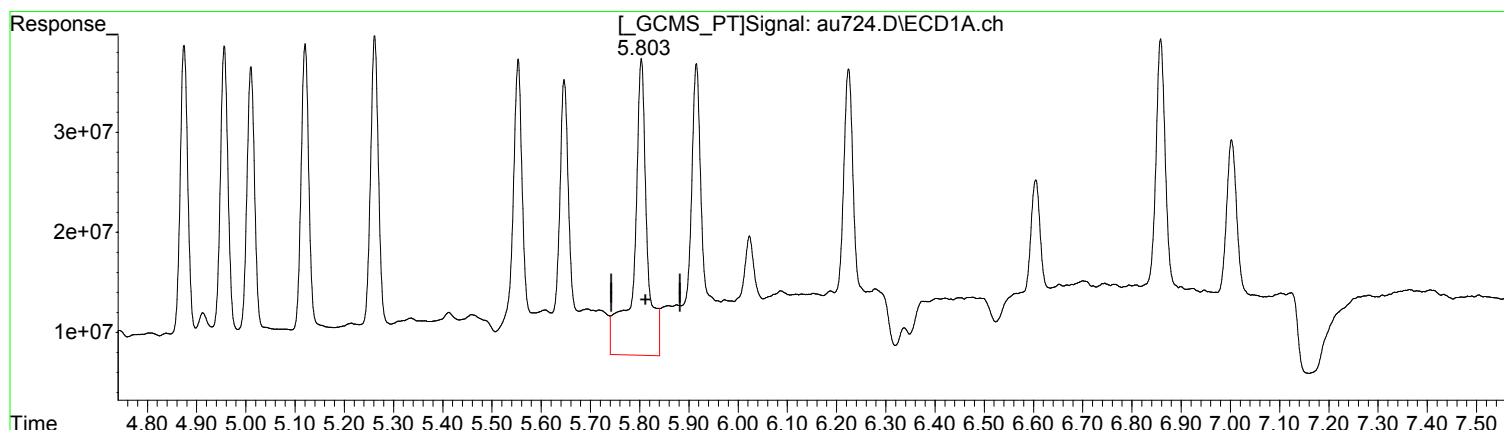
(17) beta-Endosul #2 (tc)  
6.513min 16.351 ug/l m  
response 234104673

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) beta-Endosul (tc)  
5.803min 28.206 ug/l  
response 546776599

(17) beta-Endosul #2 (tc)  
6.514min 20.626 ug/l  
response 295325271

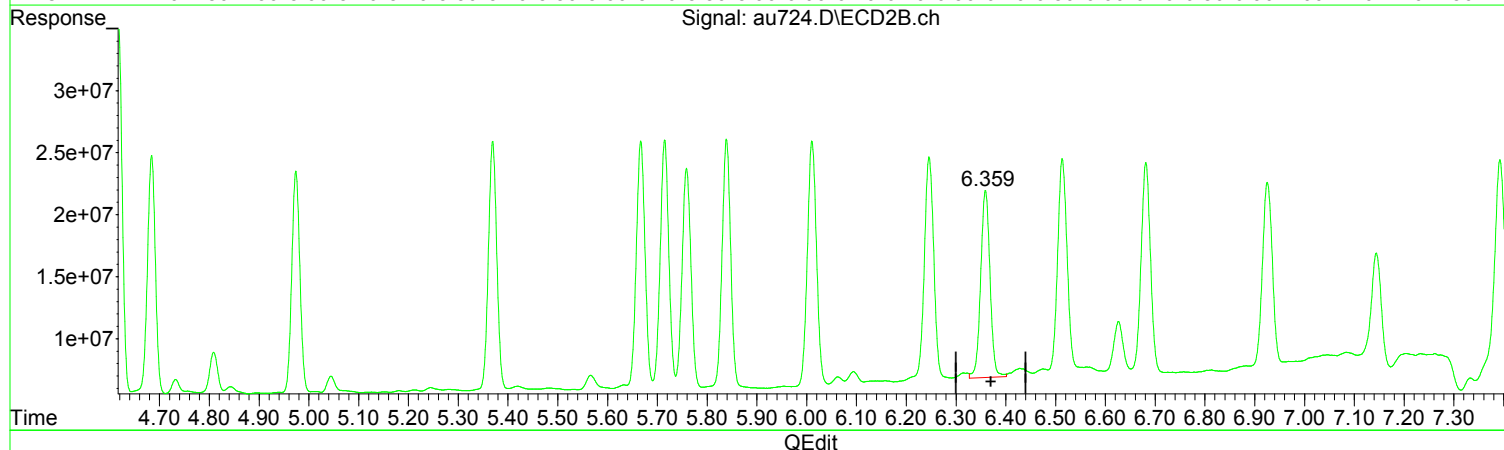
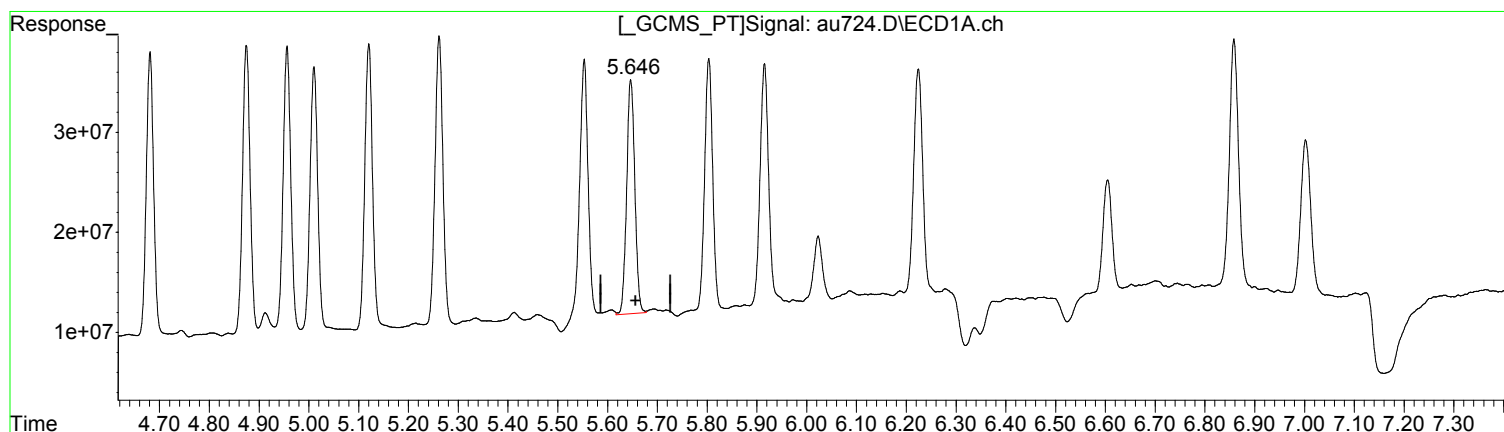
Manual Integration:  
Before  
  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)  
5.646min 14.336 ug/l m  
response 266878639

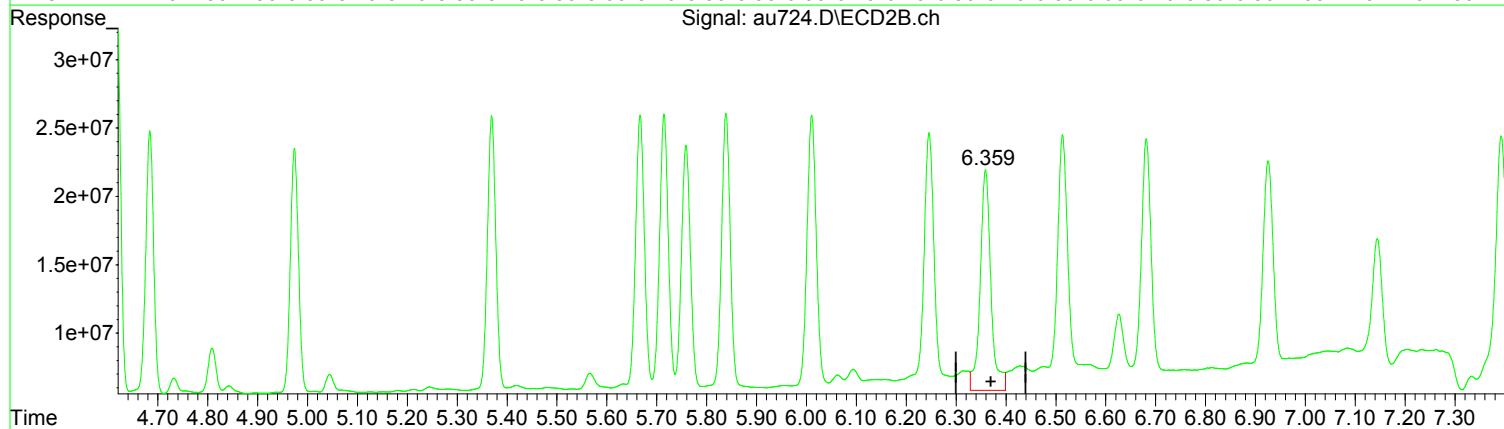
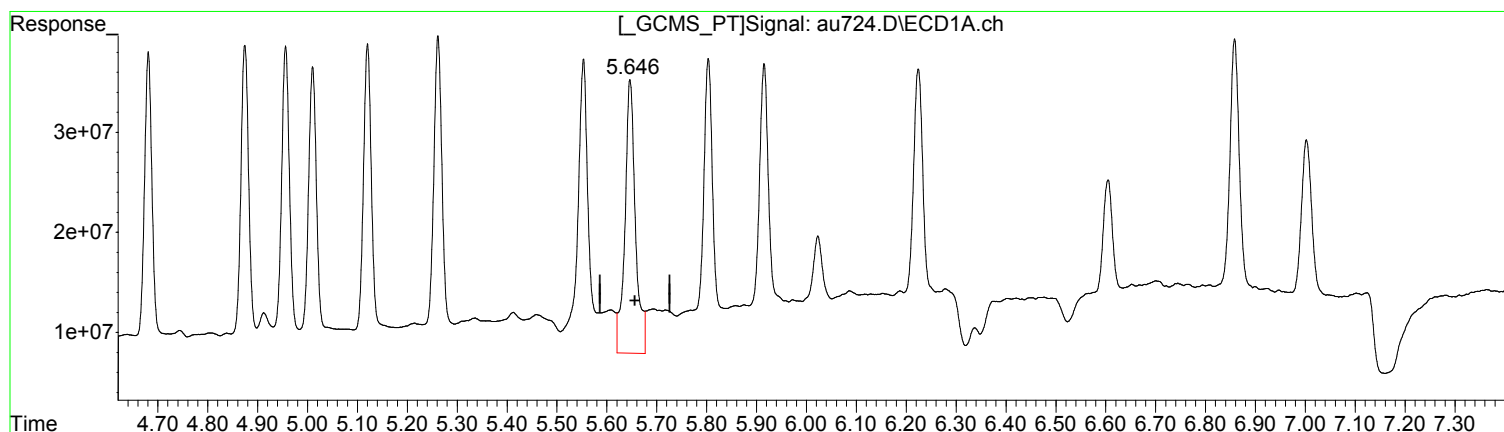
(18) 4,4'-DDD #2 (tc)  
6.359min 15.057 ug/l m  
response 196356593

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)  
5.647min 21.538 ug/l  
response 400944134

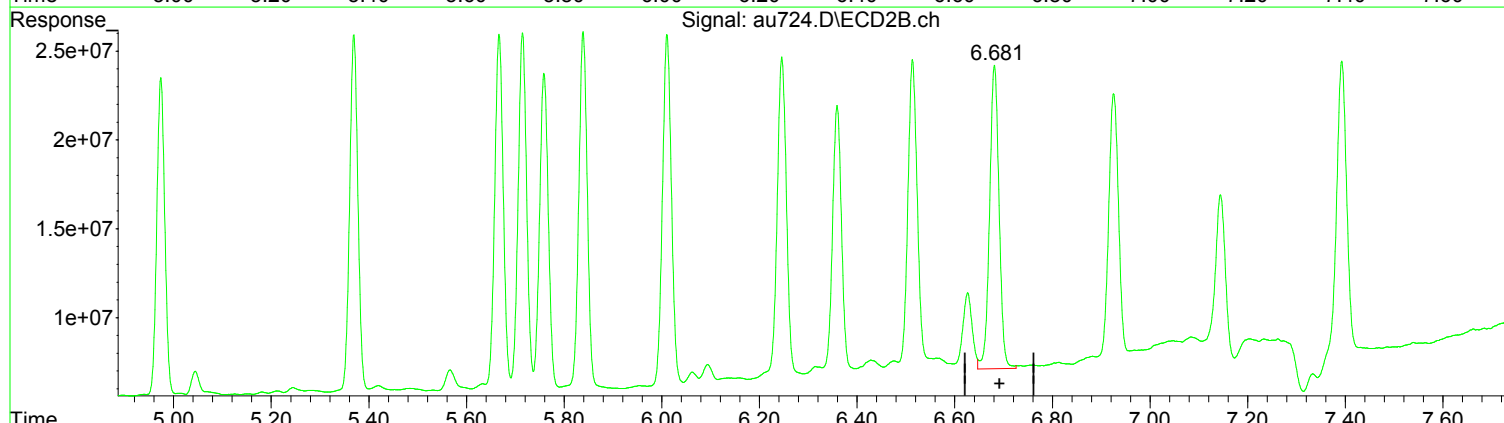
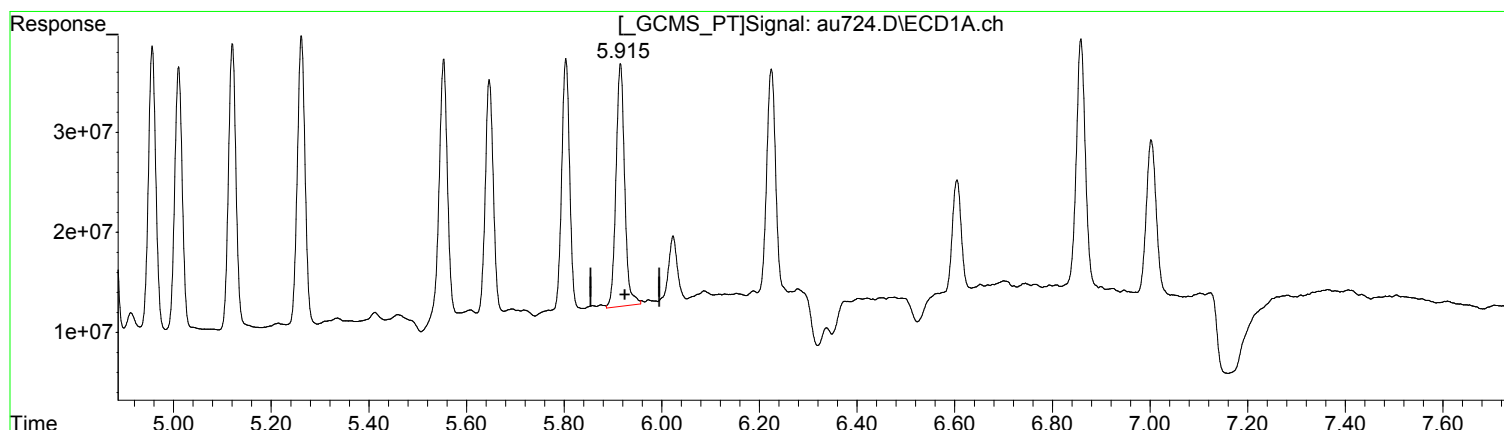
(18) 4,4'-DDD #2 (tc)  
6.359min 18.439 ug/l  
response 240463137

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.915min 16.508 ug/l m  
response 297578539

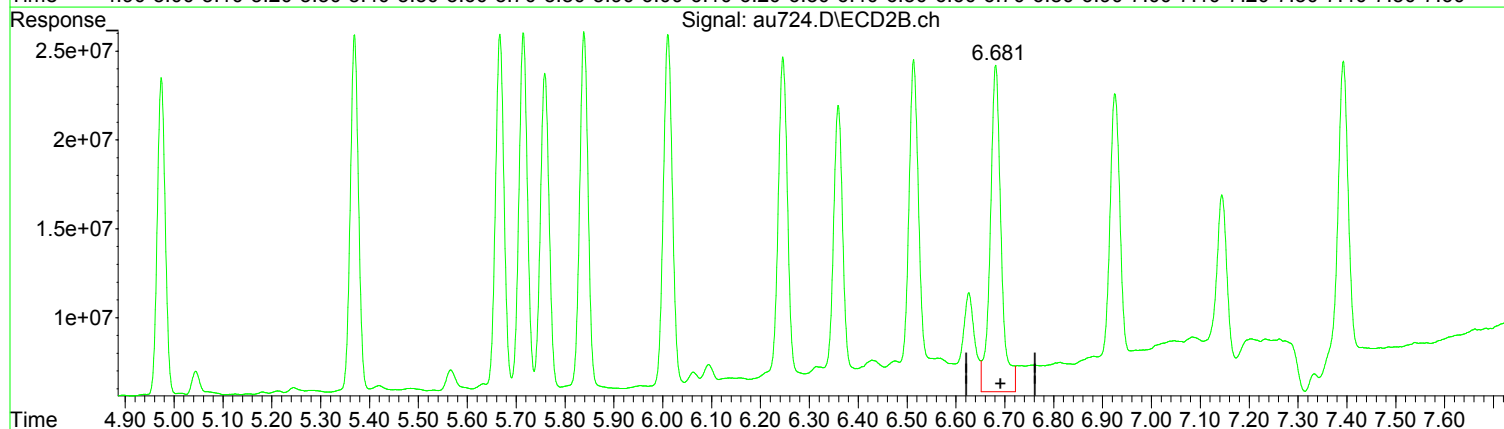
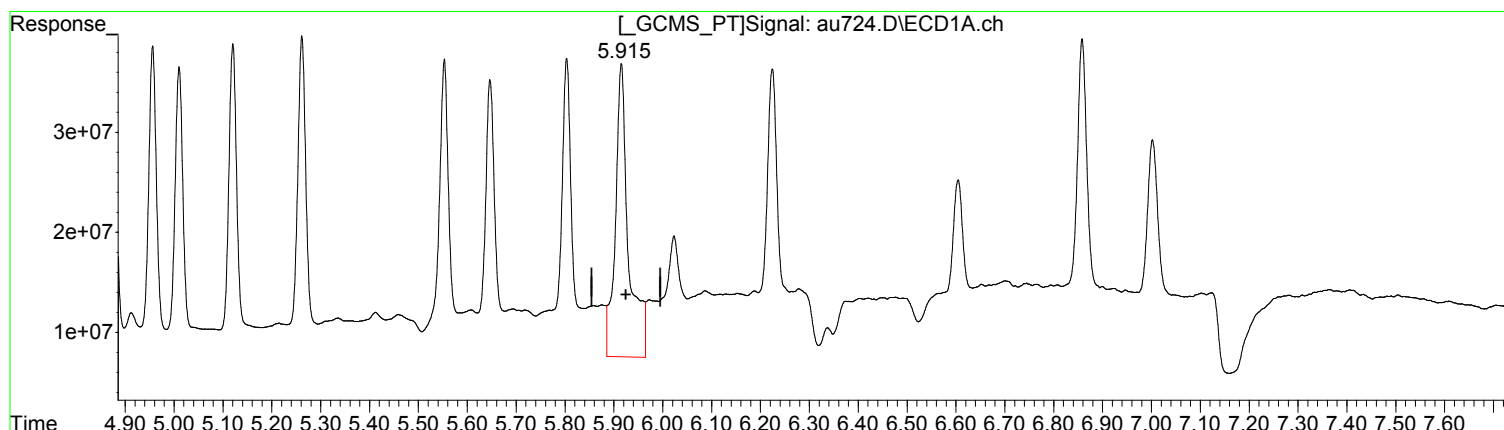
(19) 4,4'-DDT #2 (tcm)  
6.681min 16.849 ug/l m  
response 230482047

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.915min 30.069 ug/l  
response 542047673

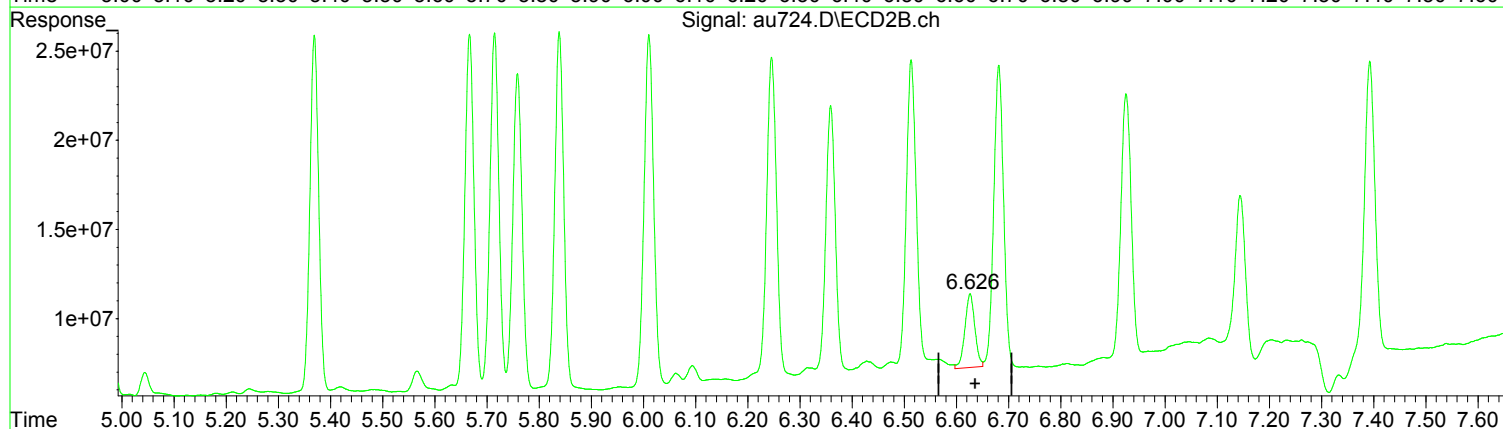
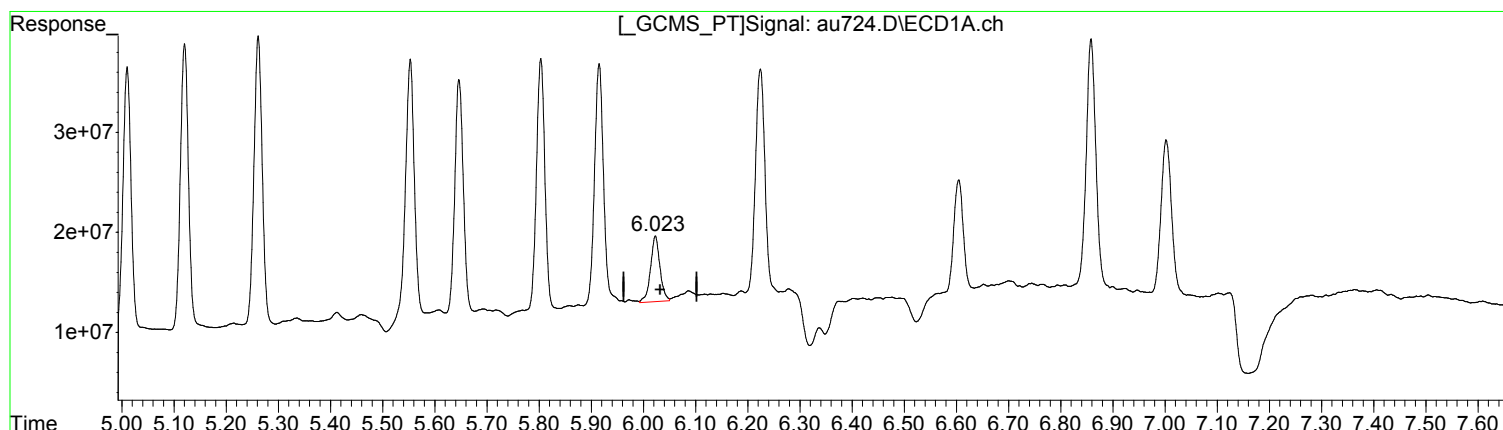
(19) 4,4'-DDT #2 (tcm)  
6.681min 20.715 ug/l  
response 283357388

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)  
6.023min 4.934 ug/l m  
response 82789260

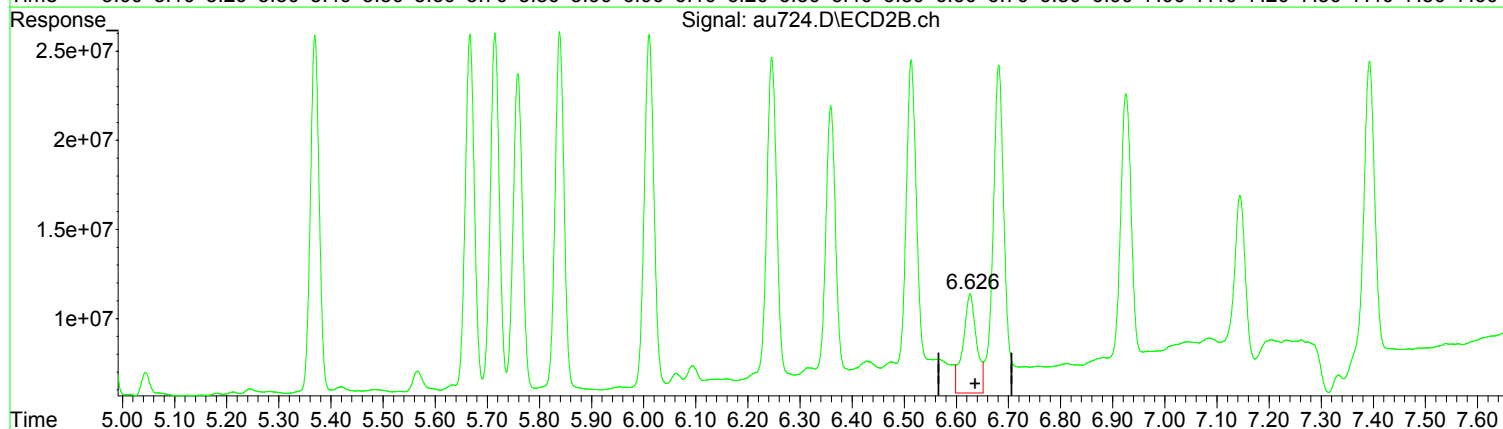
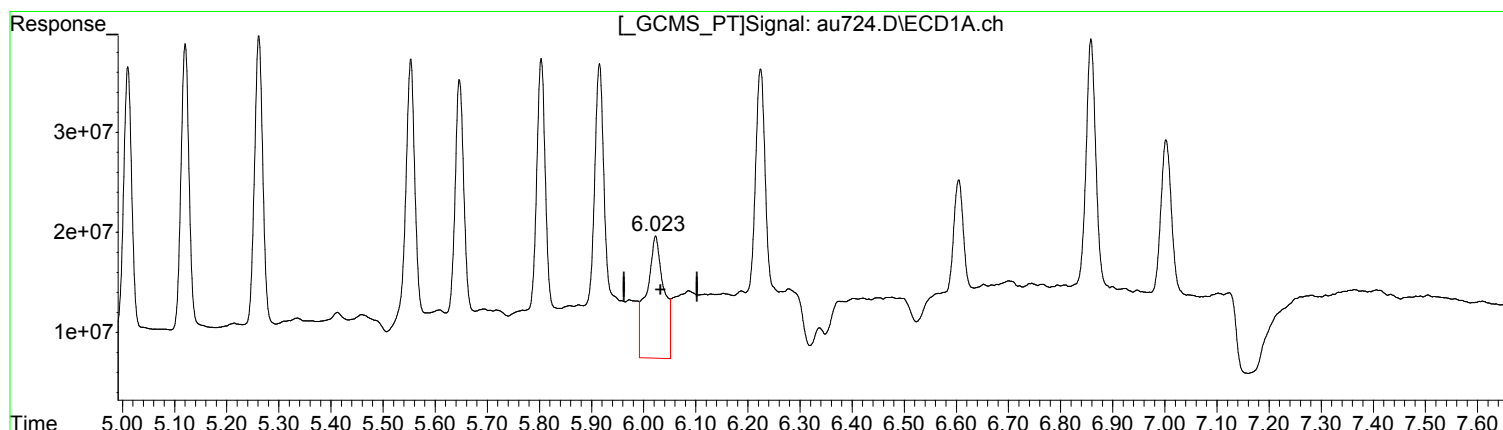
(20) Endrin Aldeh #2 (tc)  
6.626min 4.786 ug/l m  
response 54868626

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(20) Endrin Aldeh (tc)  
6.023min 16.997 ug/l  
response 285168075

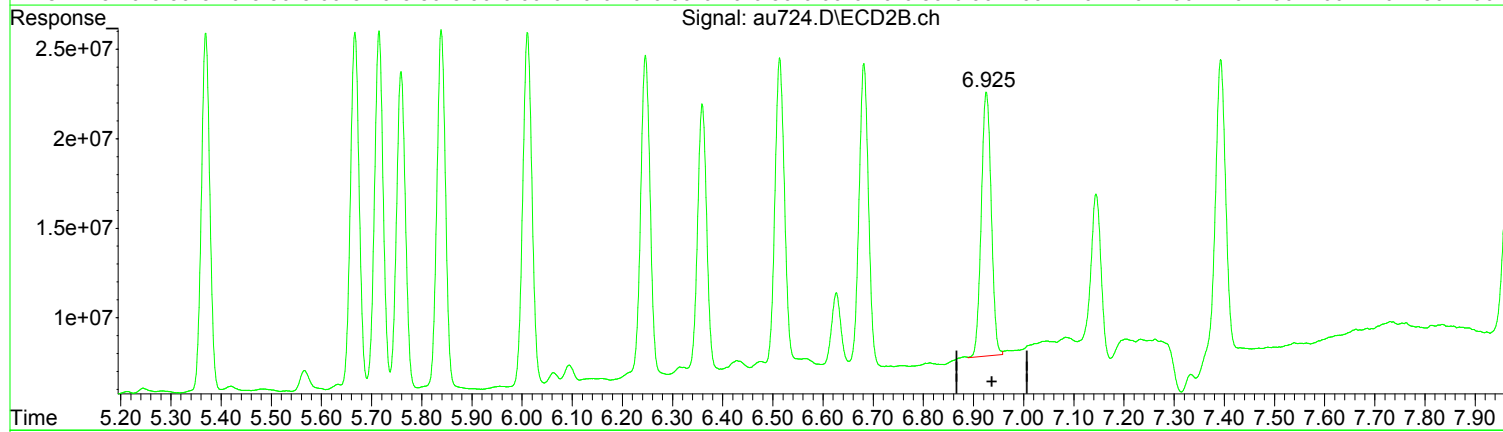
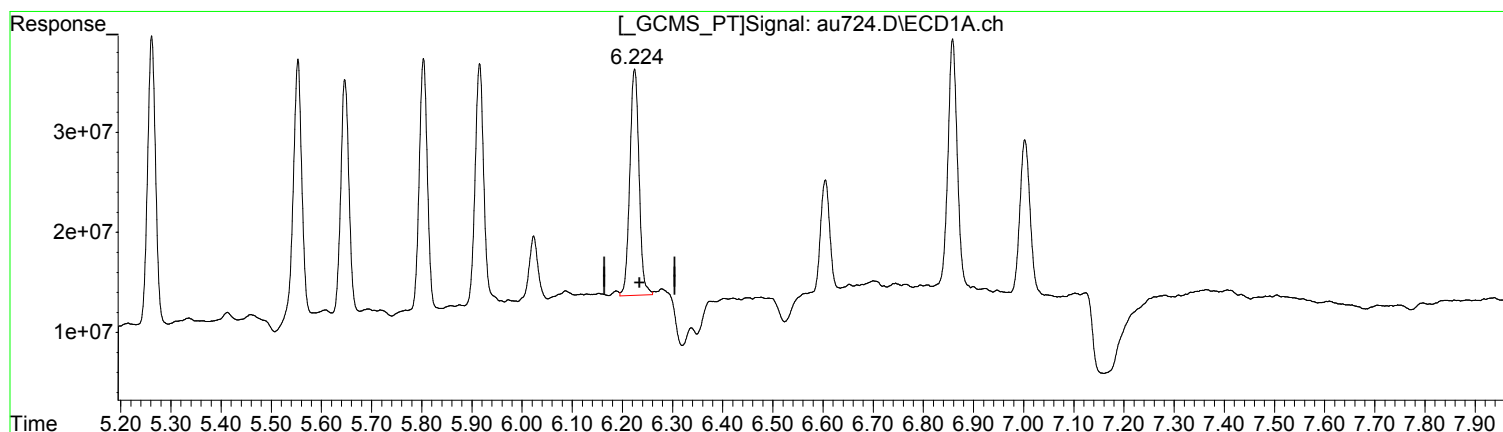
(20) Endrin Aldeh #2 (tc)  
6.627min 8.709 ug/l  
response 99852123

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(21) Endosulfan S (tc)  
6.224min 16.087 ug/l m  
response 291107981

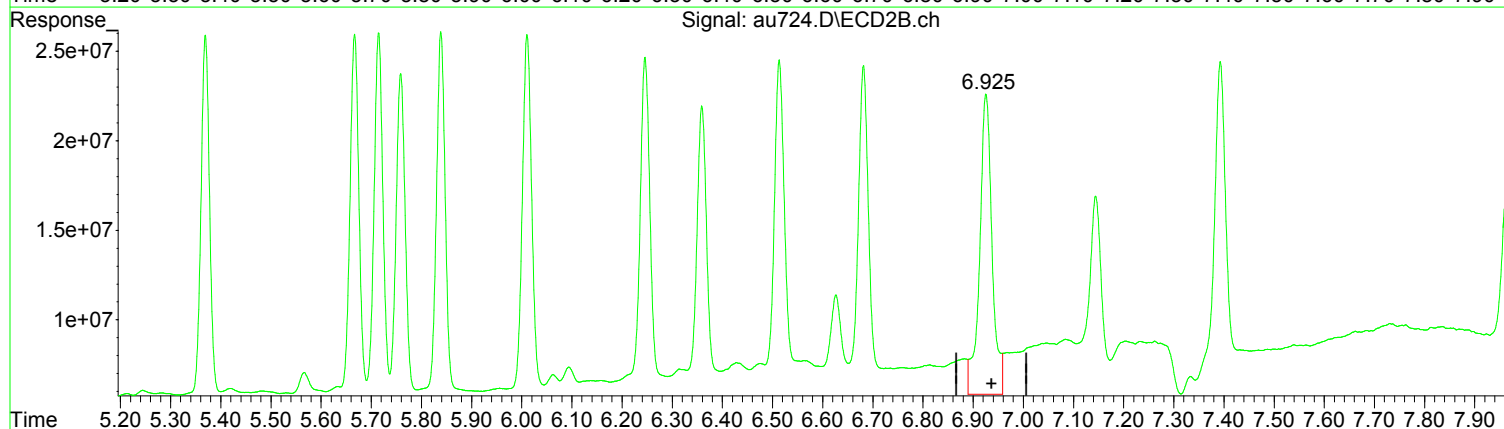
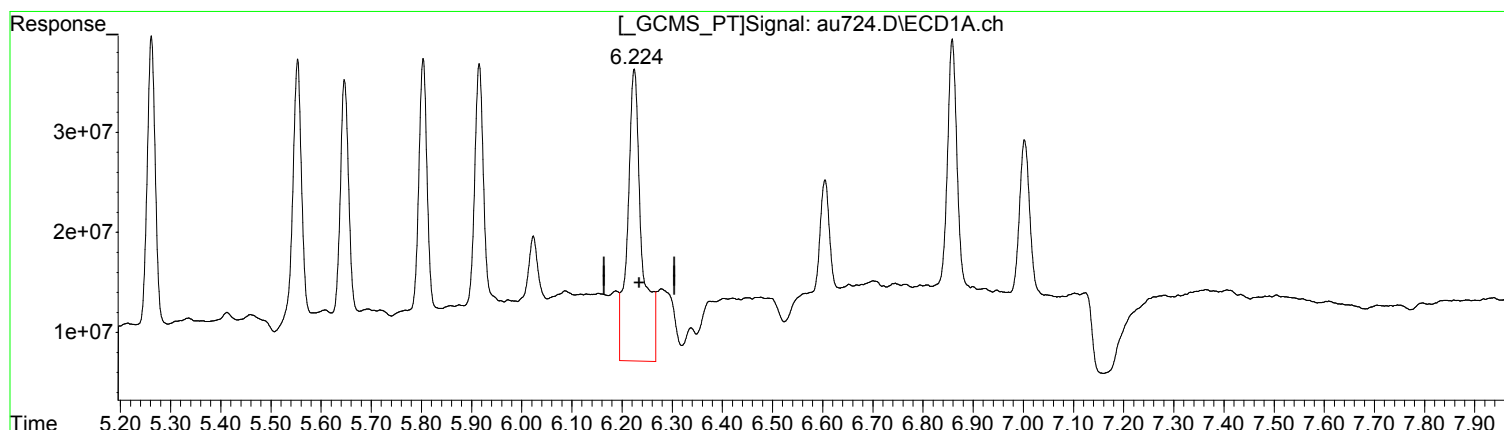
(21) Endosulfan S #2 (tc)  
6.925min 15.627 ug/l m  
response 204223732

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(21) Endosulfan S (tc)  
6.224min 31.733 ug/l  
response 574238316

(21) Endosulfan S #2 (tc)  
6.926min 21.975 ug/l  
response 287195175

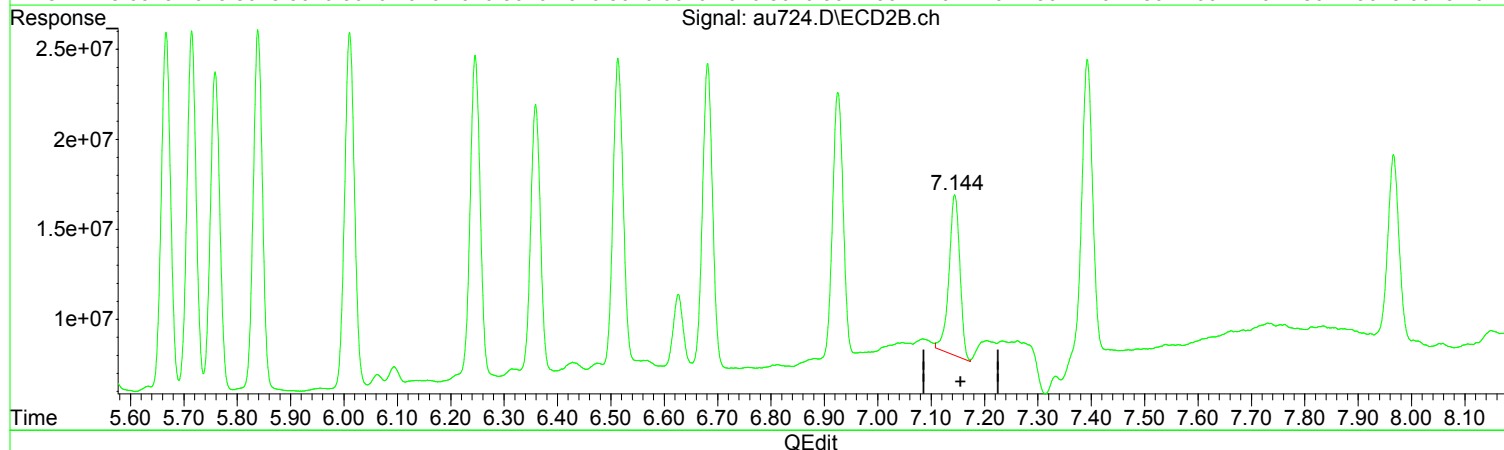
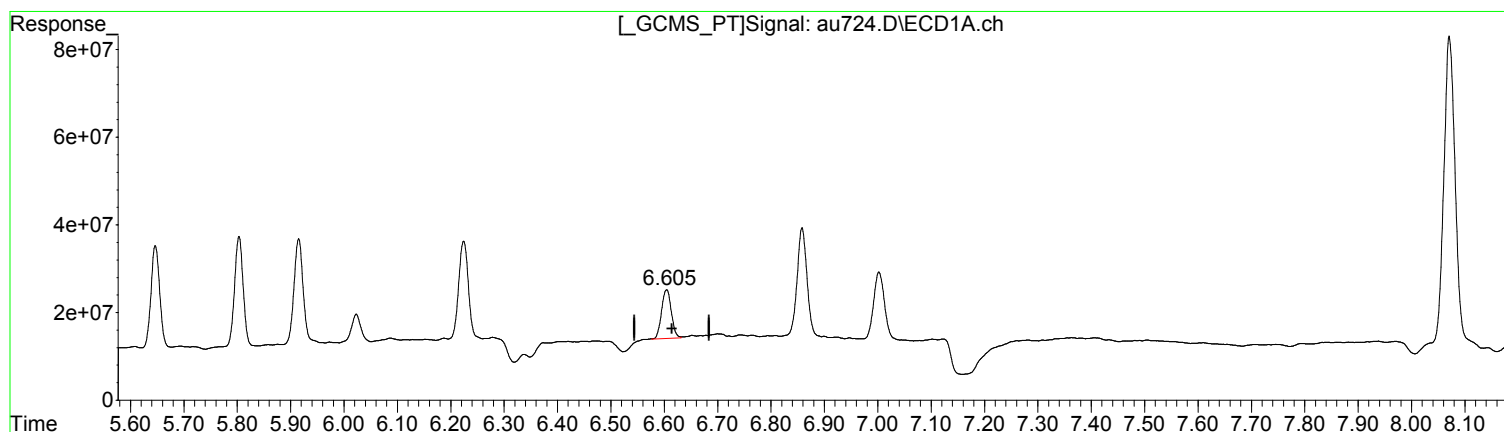
Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)  
6.605min 15.713 ug/l m  
response 140515799

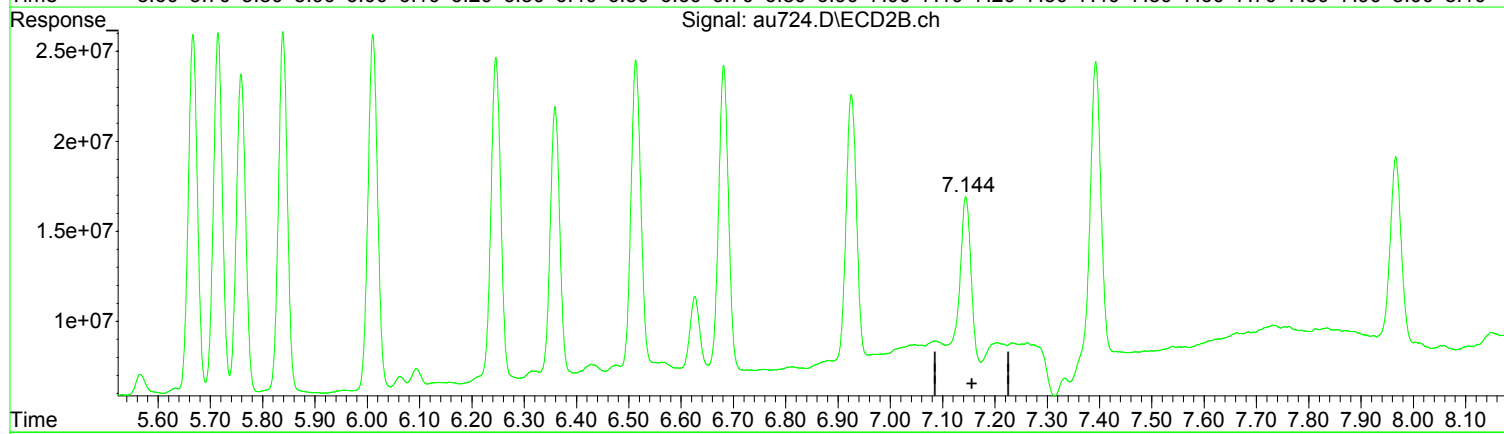
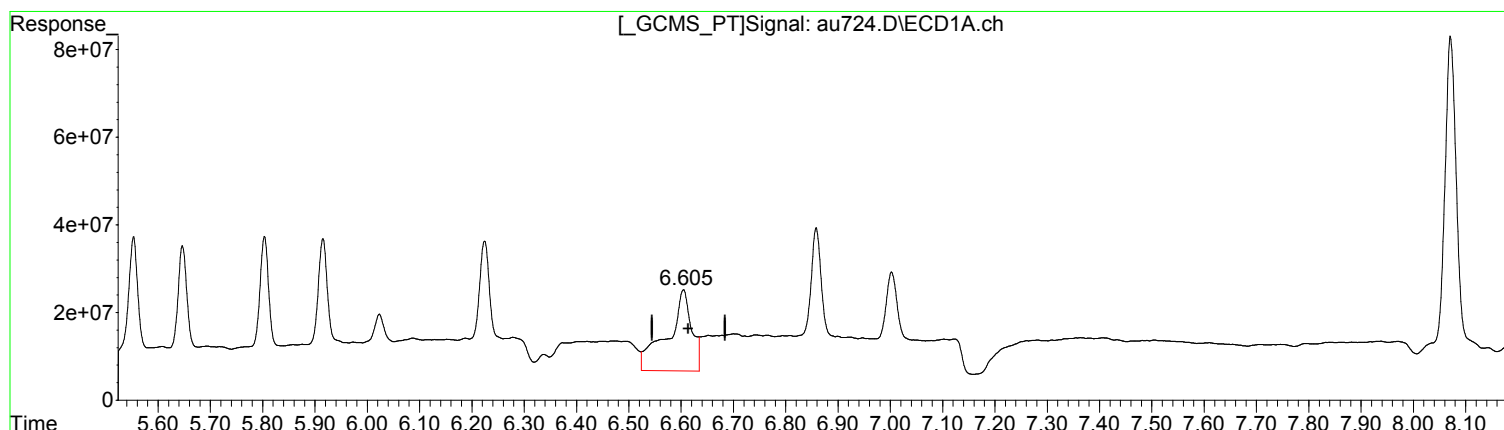
(22) Methoxychlor #2 (tc)  
7.144min 17.086 ug/l m  
response 126794918

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)  
6.605min 67.061 ug/l  
response 599696057

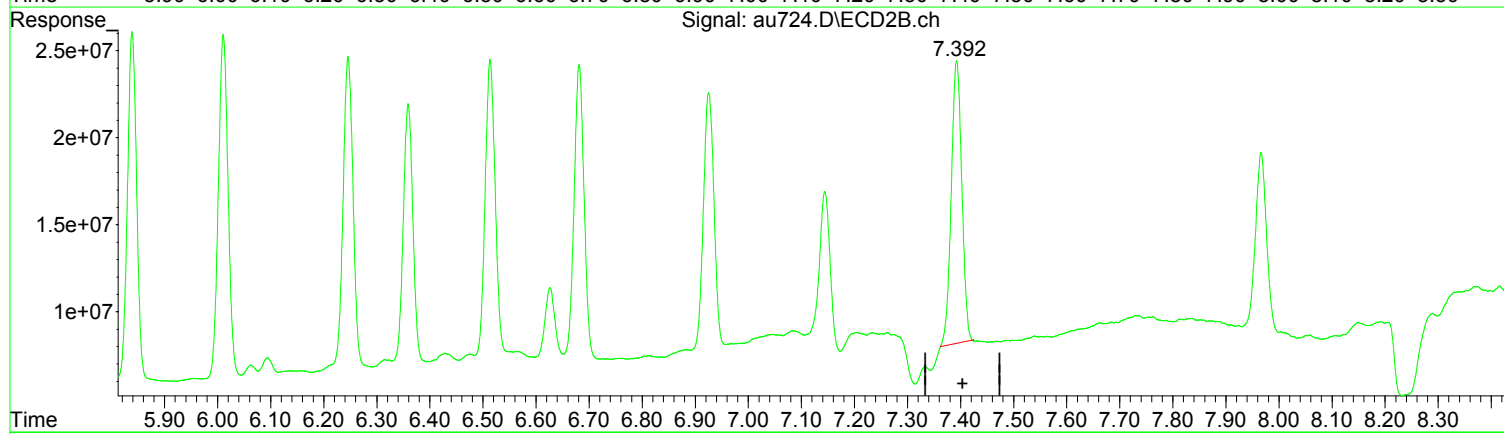
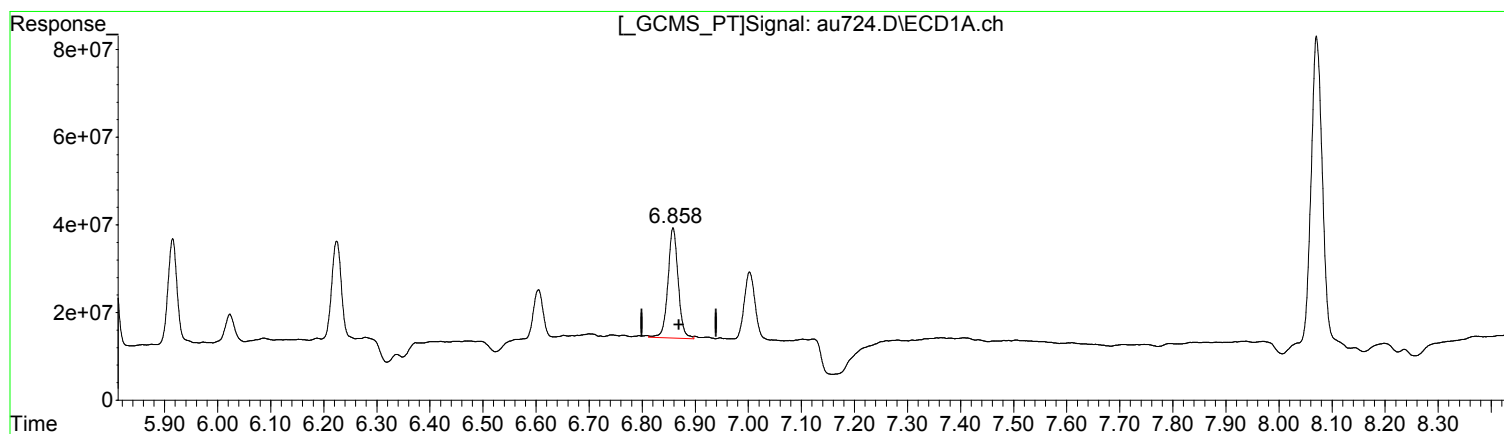
(22) Methoxychlor #2 (tc)  
7.144min 29.063 ug/l  
response 215671009

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.858min 17.303 ug/l m  
response 337426099

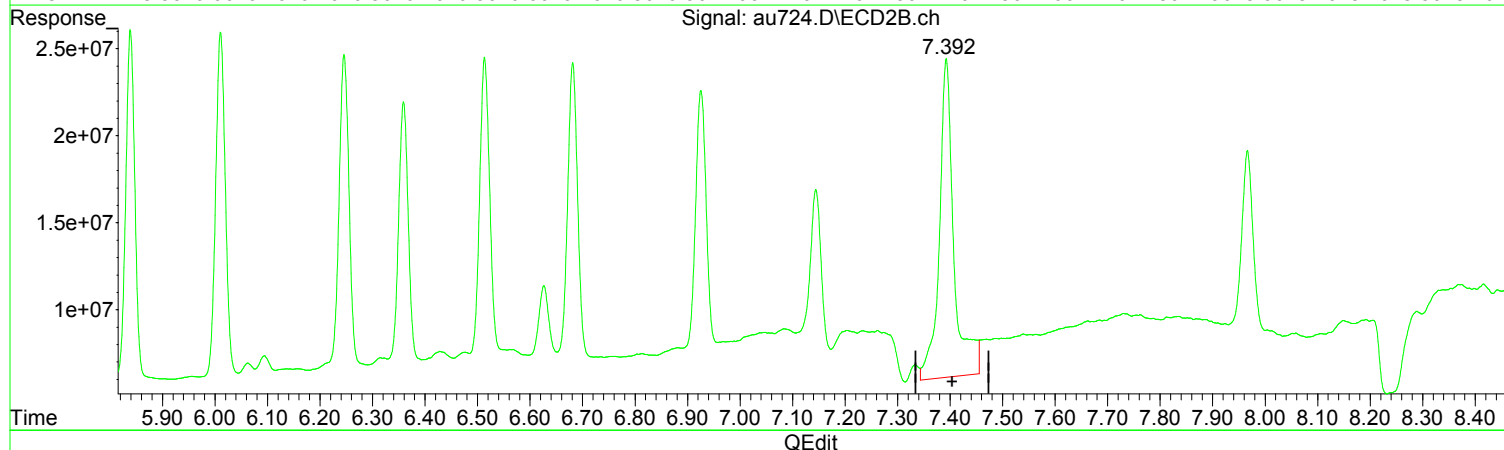
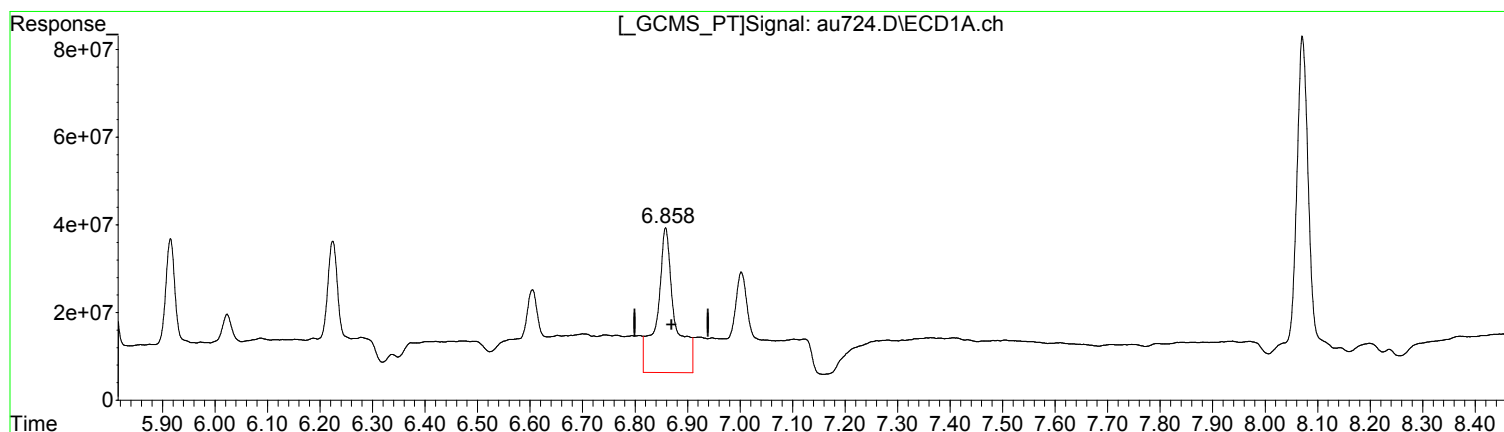
(24) Endrin Keton #2 (tc)  
7.392min 14.745 ug/l m  
response 224533650

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.858min 40.282 ug/l  
response 785555261

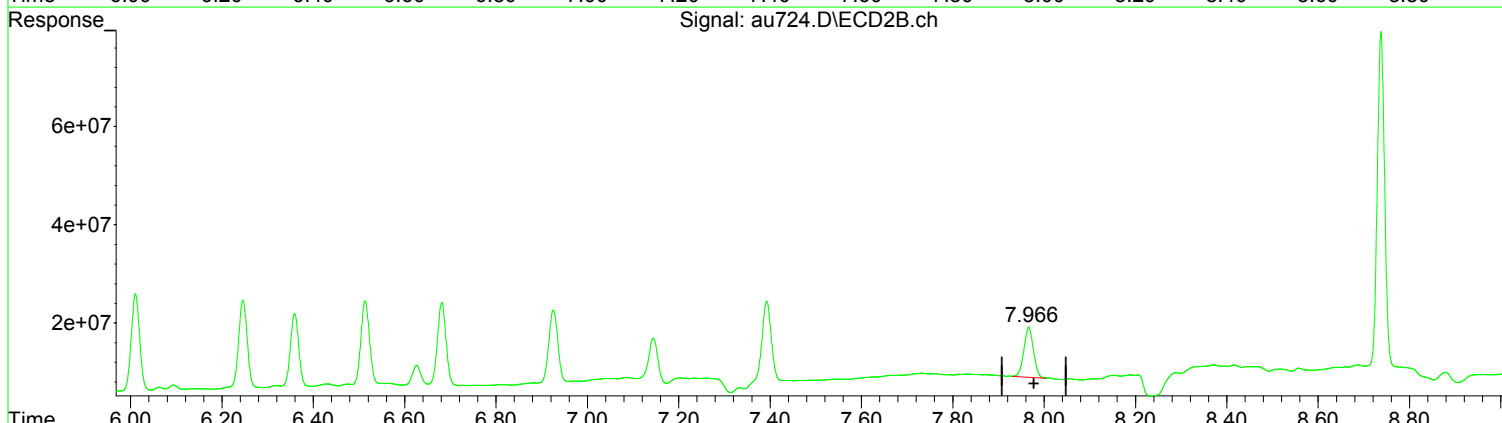
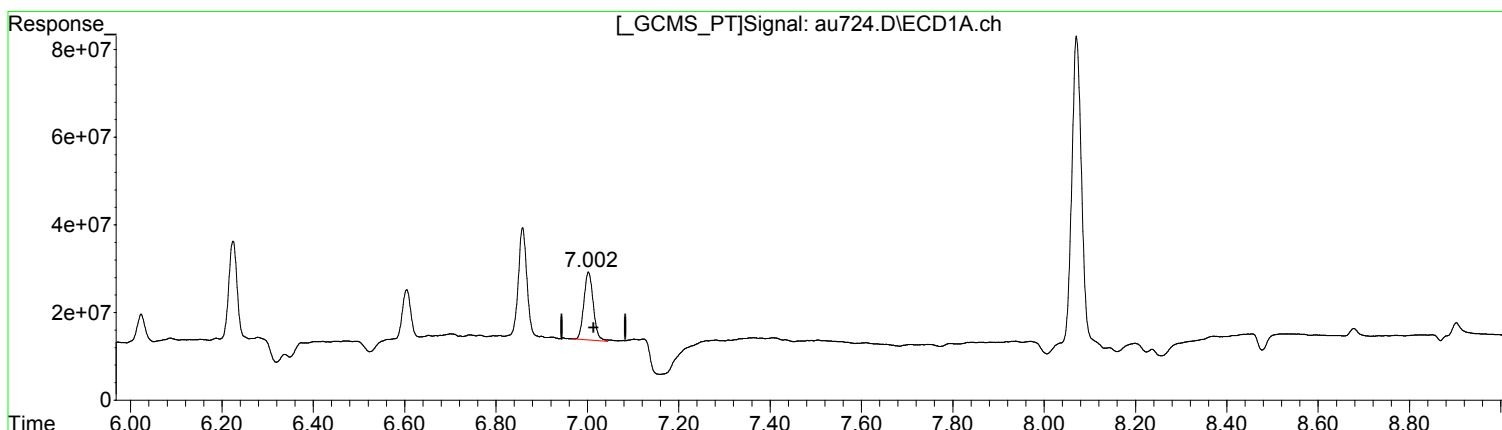
(24) Endrin Keton #2 (tc)  
7.393min 23.140 ug/l  
response 352373332

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) Mirex (tc)  
7.002min 14.773 ug/l m  
response 222297227

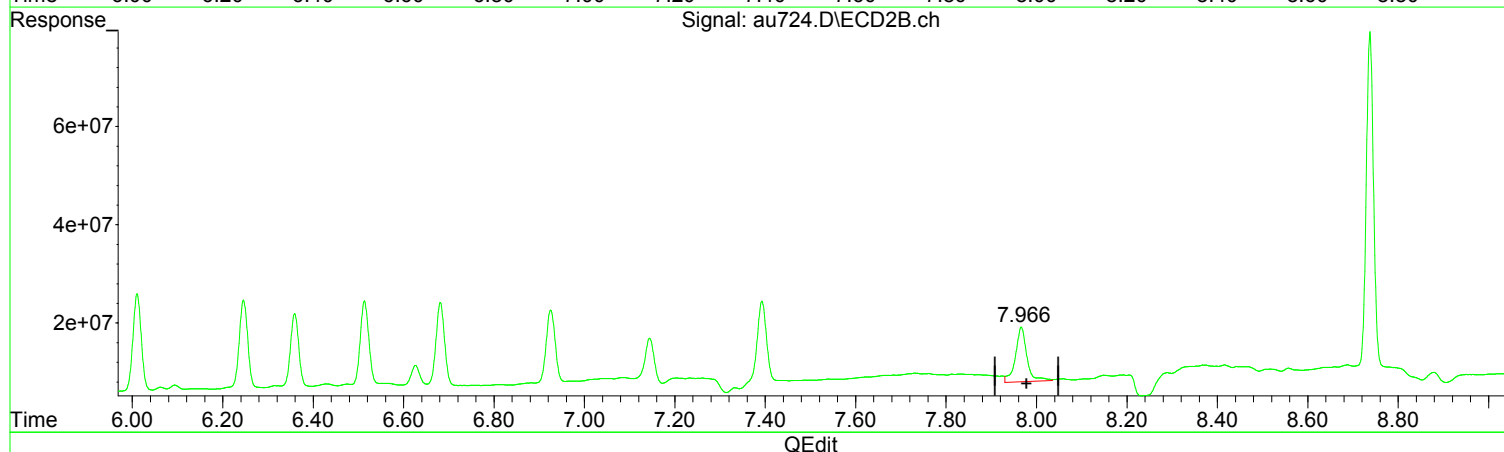
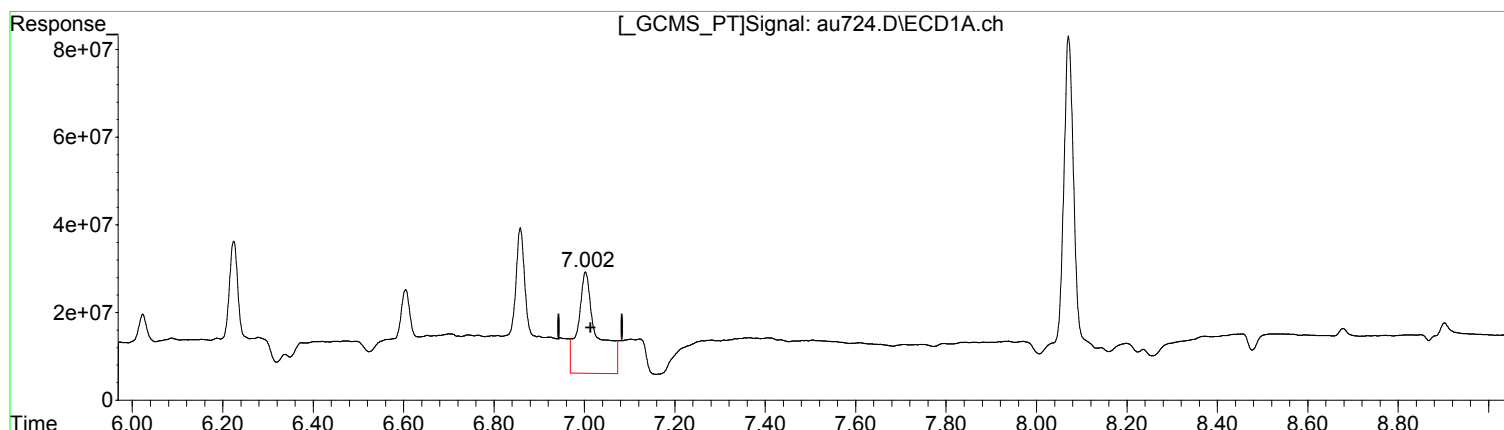
(25) Mirex #2 (tc)  
7.966min 13.882 ug/l m  
response 147037621

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) Mirex (tc)  
7.002min 46.451 ug/l  
response 698952951

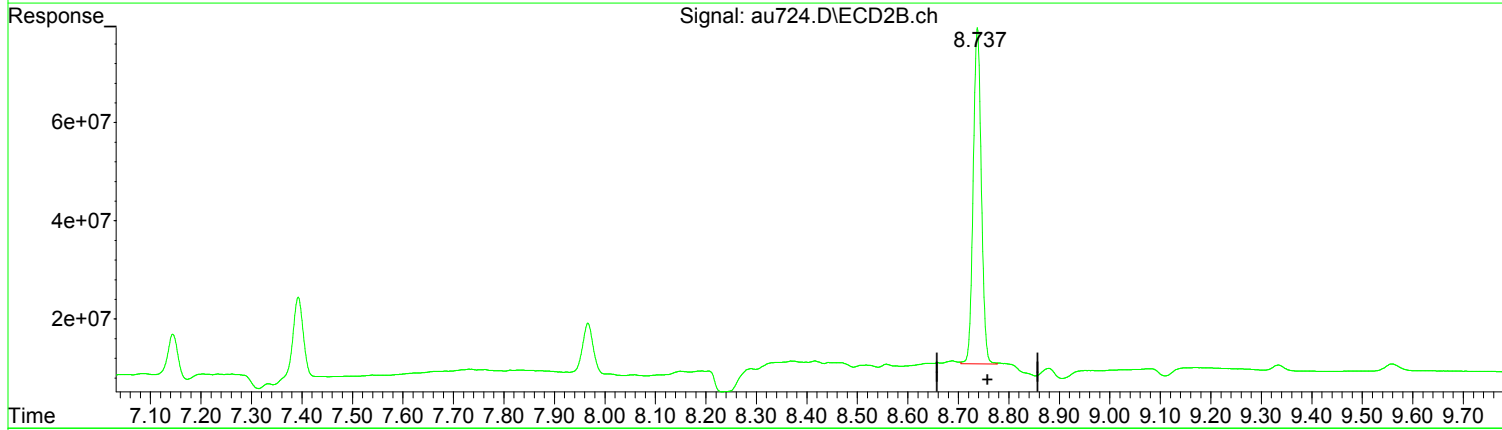
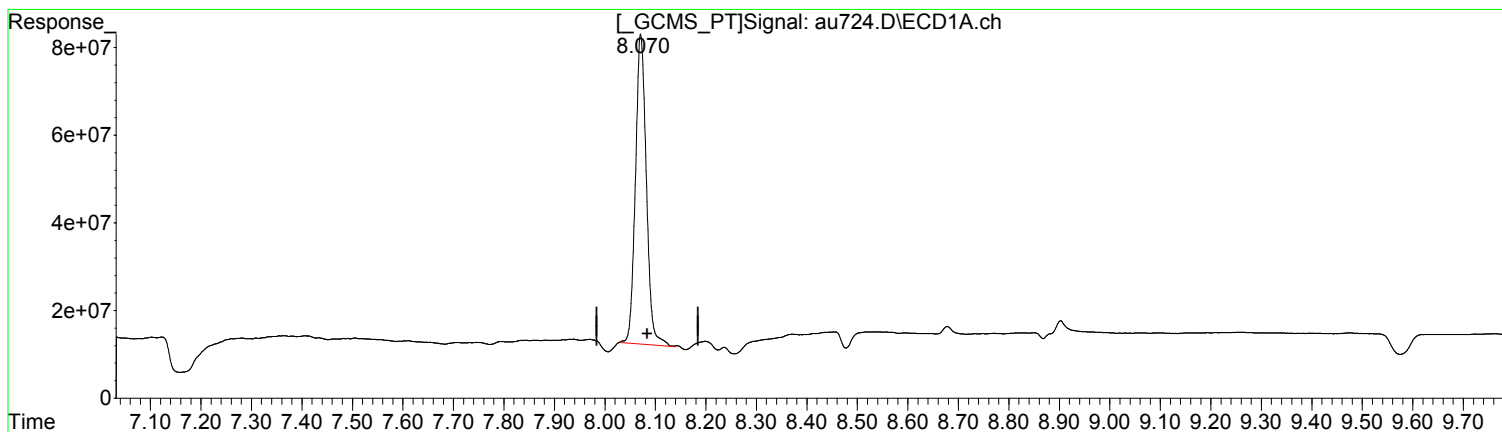
(25) Mirex #2 (tc)  
7.966min 18.567 ug/l  
response 196670915

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURR2,Decachlorobiphenyl (S)  
8.070min 72.278 ug/l m  
response 1062724999

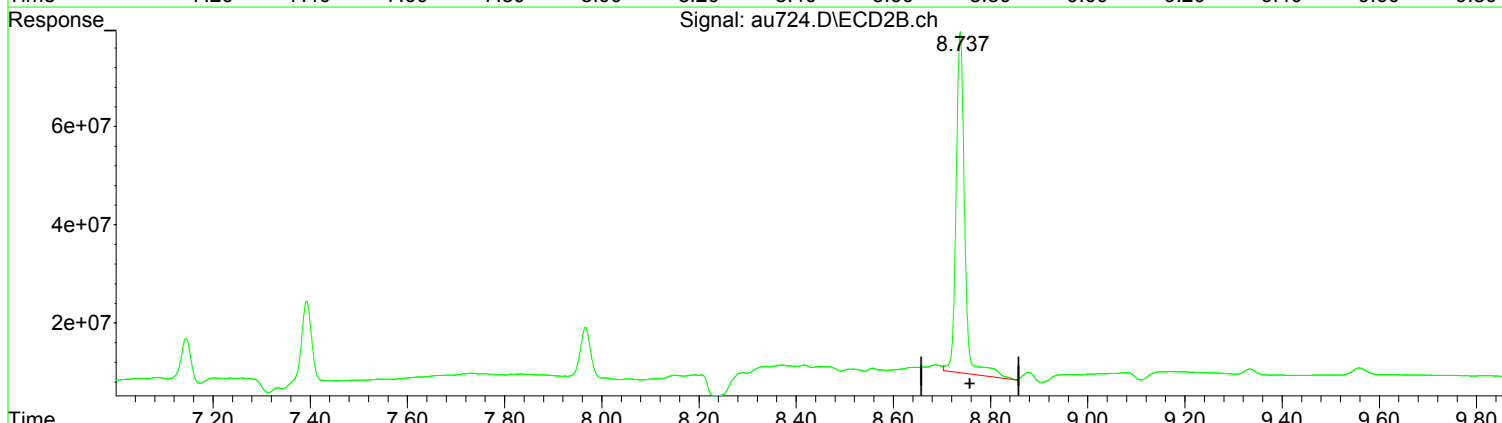
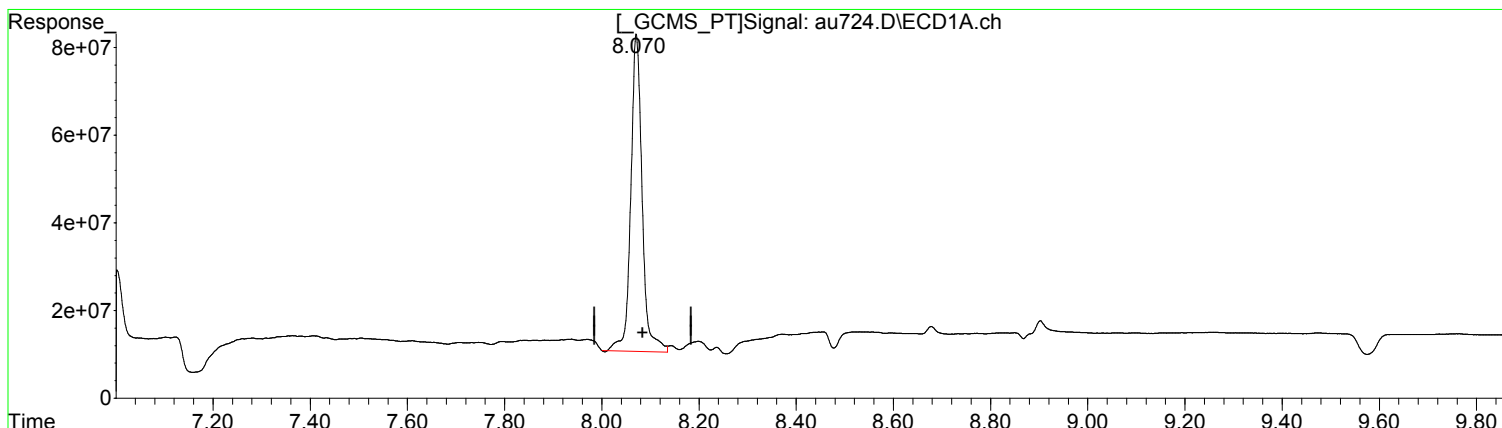
(26) SURR2,Decachlorobiphenyl #2 (S)  
8.737min 69.396 ug/l m  
response 765792898

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.071min 79.896 ug/l  
response 1174743387

(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.738min 77.829 ug/l  
response 858849067

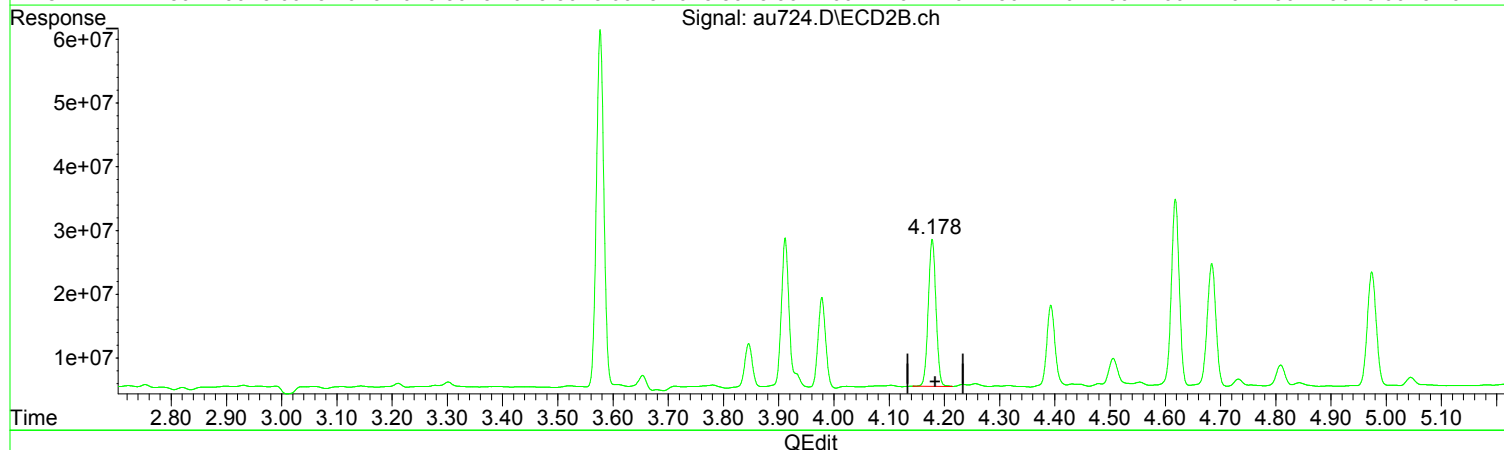
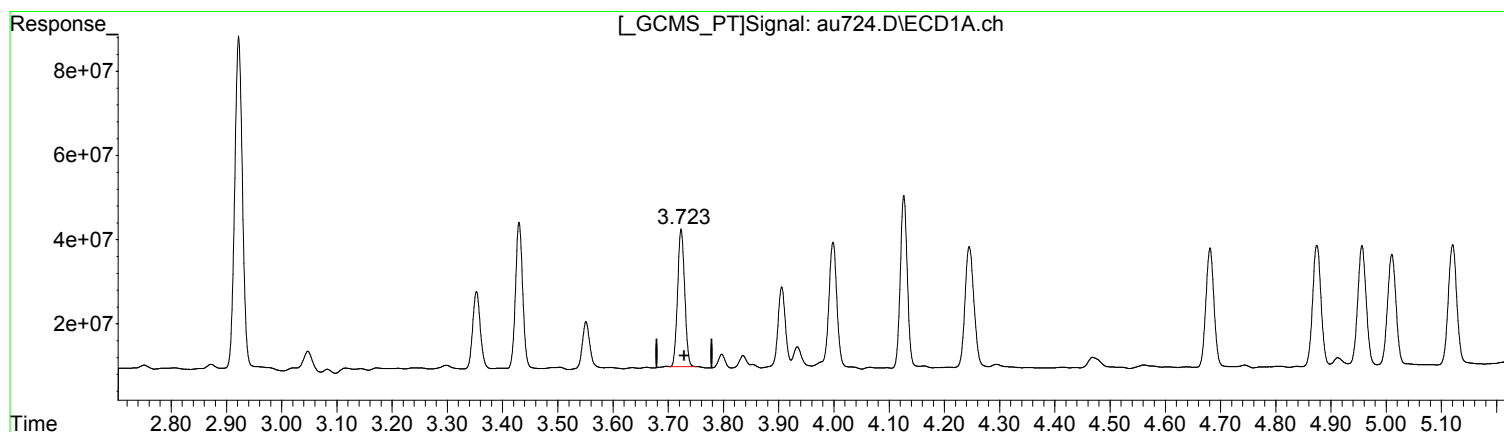
Manual Integration:  
Before  
02/26/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.723min 10.655 ug/l m  
response 290723095

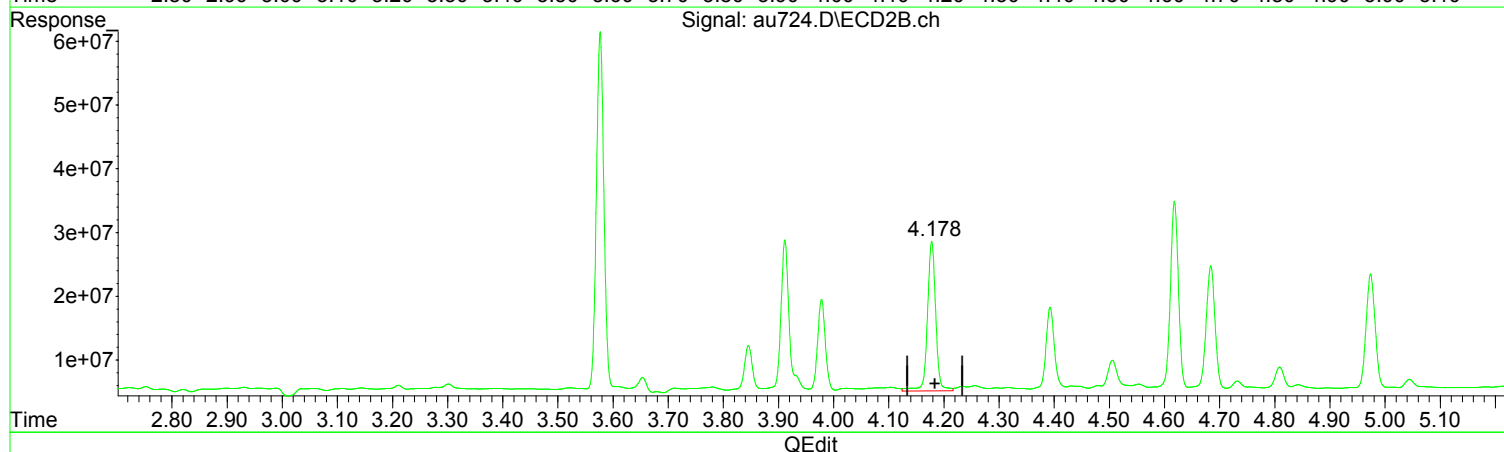
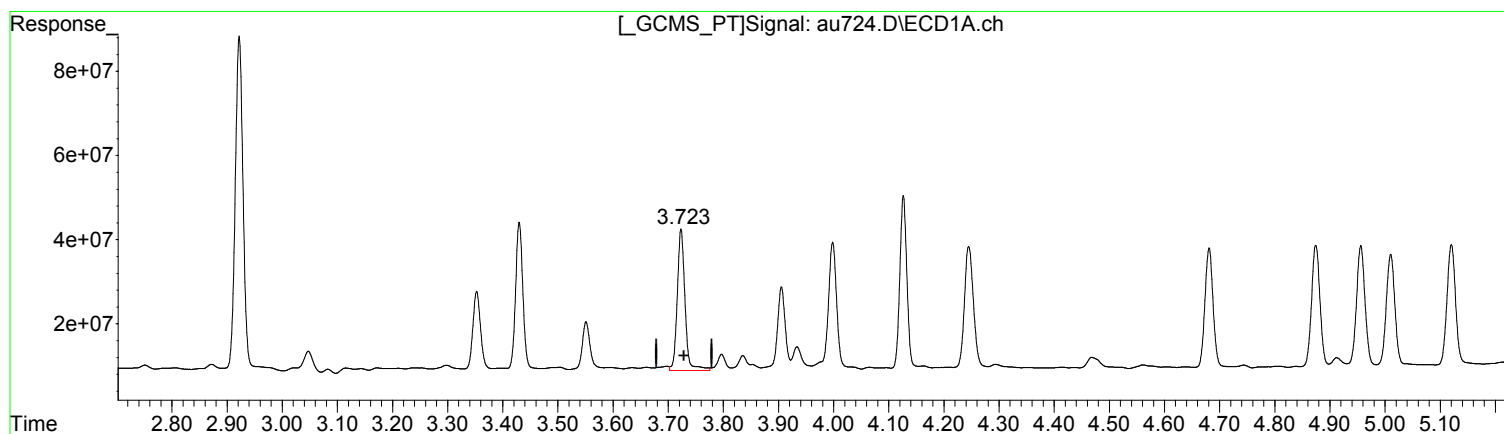
(4) gamma-BHC (L #2 (tcm)  
4.178min 11.477 ug/l m  
response 224185657

Manual Integration:  
After  
Poor integration.  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rq1801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.723min 12.006 ug/l  
response 327592957

(4) gamma-BHC (L #2 (tcm)  
4.178min 12.646 ug/l  
response 247016529

Manual Integration:  
Before  
02/26/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au724.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 3:58 pm  
 Operator : m.pedro  
 Sample : rql801536-03  
 Misc : 308673  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:02:28 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

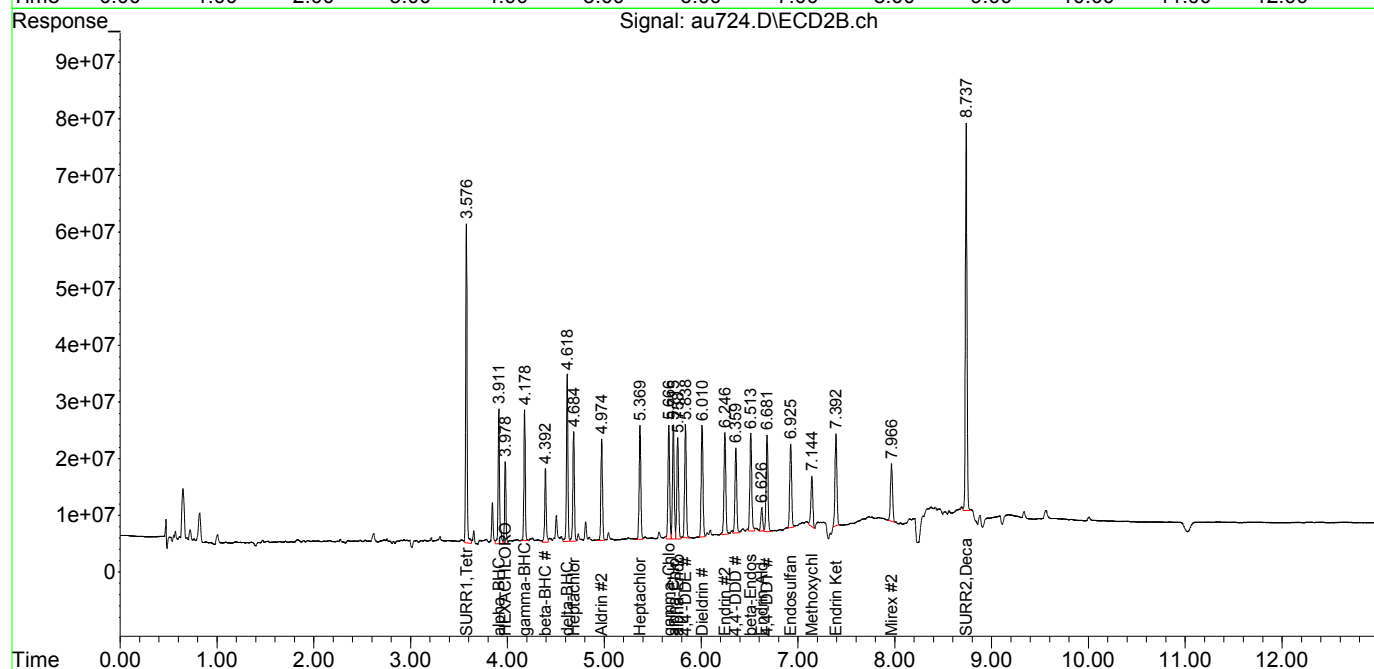
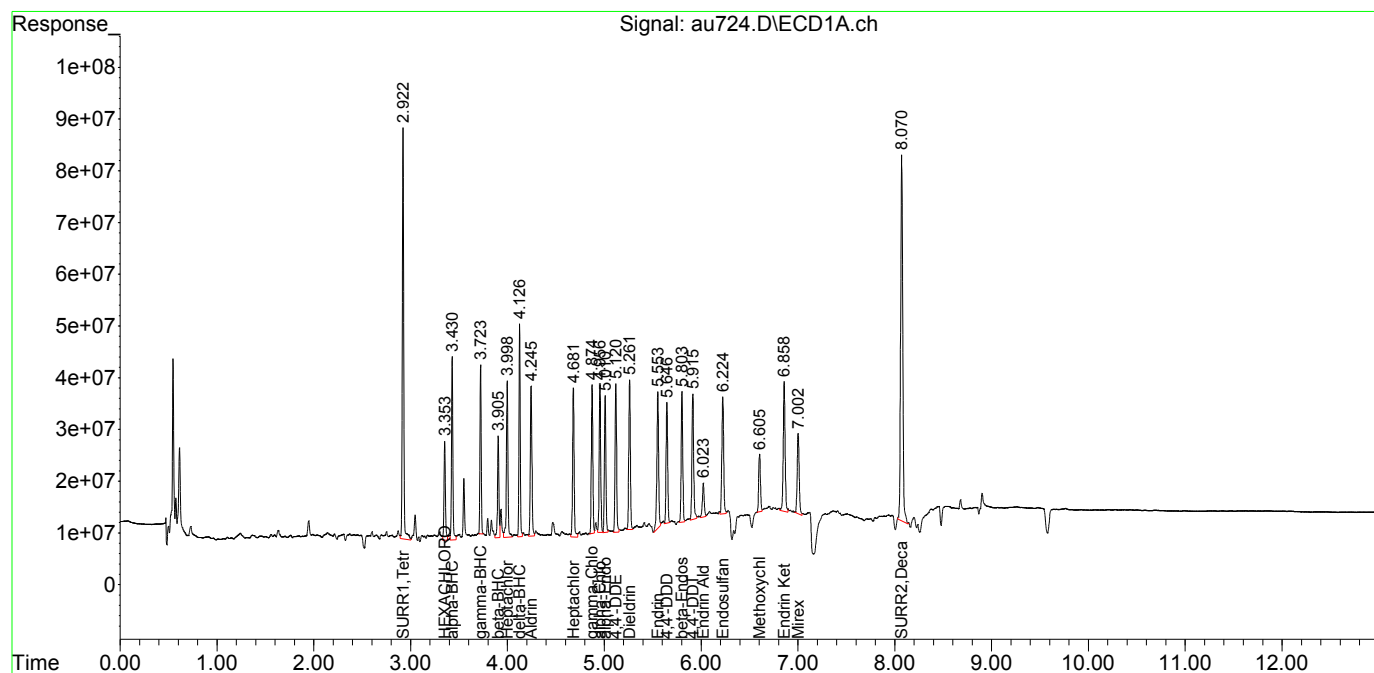
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.922	3.577	811.9E6	548.2E6	34.839	35.546
Spiked Amount	100.000 Range	30 - 150	Recovery	=	34.84%	35.55%
26) S SURR2,Dec...	8.070	8.737	1062.7E6	765.8E6	72.278m	69.396m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	72.28%	69.40%
Target Compounds						
2) TC HEXACHLOR...	3.353	3.978	197.2E6	144.1E6	9.804	9.926
3) tc alpha-BHC	3.430	3.912	341.4E6	259.4E6	10.816	12.040
4) tcm gamma-BHC (L	3.723	4.178	290.7E6	224.2E6	10.655m	11.477m
5) tcm Heptachlor	3.998	4.684	332.9E6	220.3E6	12.686	11.488
6) tcm Aldrin	4.245	4.974	334.8E6	206.6E6	13.354	11.824
7) tc beta-BHC	3.906	4.393	197.9E6	143.9E6	15.260	15.637
8) tc delta-BHC	4.127	4.618	369.3E6	306.6E6	14.006	15.692
9) tc Heptachlor E	4.681	5.369	310.7E6	238.7E6	14.209	14.461
10) tc alpha-Endosu	5.010	5.759	288.6E6	227.6E6	13.801m	15.406
11) tc gamma-Chlord	4.874	5.667	305.4E6	250.5E6	13.765m	15.226
12) tc alpha-Chlord	4.956	5.715	306.2E6	247.2E6	14.381m	15.321
13) tc 4,4'-DDE	5.120	5.838	315.8E6	240.6E6	15.113m	15.955m
14) tcm Dieldrin	5.261	6.010	323.3E6	253.4E6	14.277m	15.654m
15) tcm Endrin	5.553	6.245	325.4E6	239.6E6	16.495m	16.326m
17) tc beta-Endosul	5.803	6.513	287.0E6	234.1E6	14.805m	16.351m
18) tc 4,4'-DDD	5.646	6.359	266.9E6	196.4E6	14.336m	15.057m
19) tcm 4,4'-DDT	5.915	6.681	297.6E6	230.5E6	16.508m	16.849m
20) tc Endrin Aldeh	6.023	6.626	82789260	54868626	4.934m	4.786m
21) tc Endosulfan S	6.224	6.925	291.1E6	204.2E6	16.087m	15.627m
22) tc Methoxychlor	6.605	7.144	140.5E6	126.8E6	15.713m	17.086m
24) tc Endrin Keton	6.858	7.392	337.4E6	224.5E6	17.303m	14.745m
25) tc Mirex	7.002	7.966	222.3E6	147.0E6	14.773m	13.882m
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au724.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:58 pm  
Operator : m.pedro  
Sample : rql801536-03  
Misc : 308673  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:02:28 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

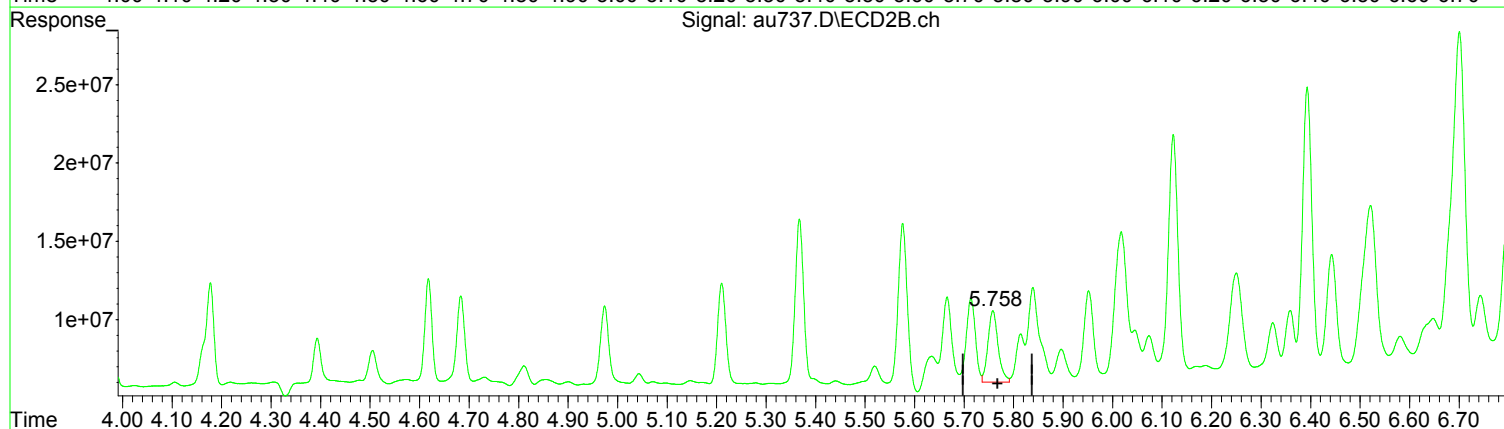
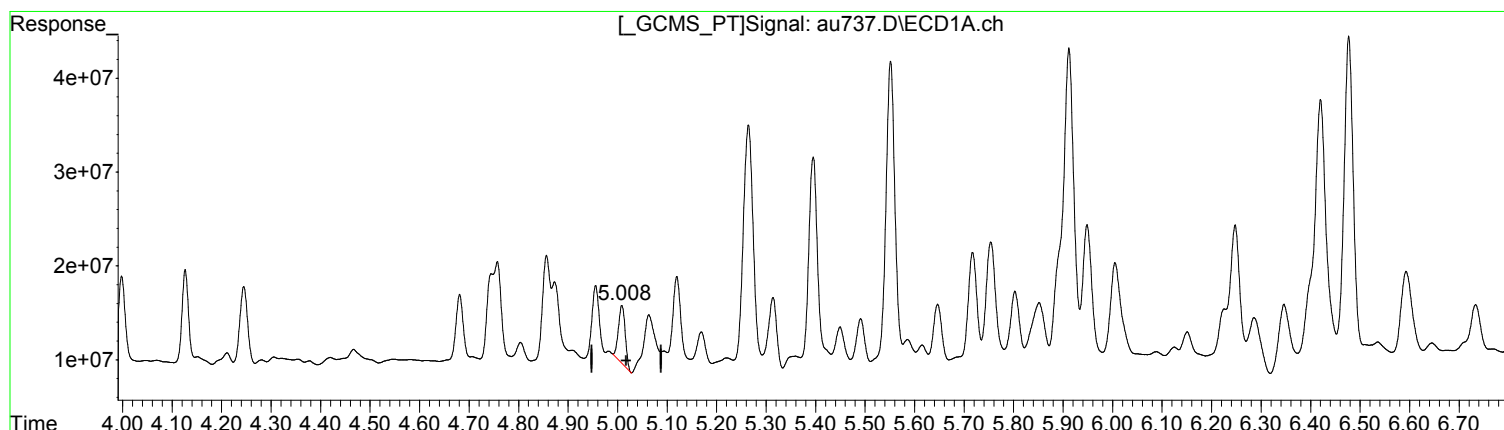
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) alpha-Endosu (tc)  
5.008min 2.799 ug/l m  
response 58540370

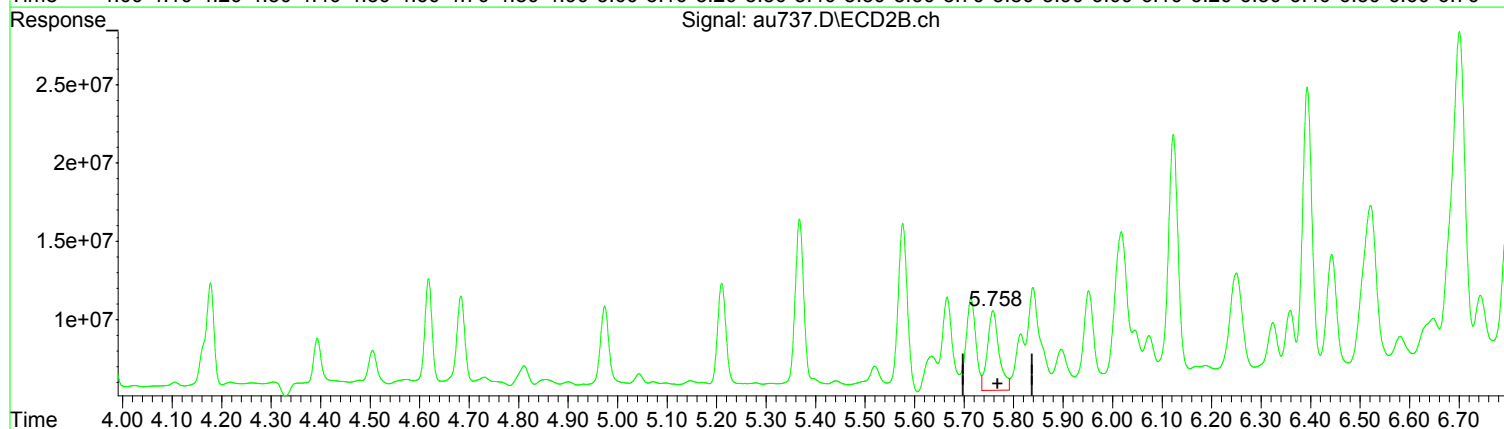
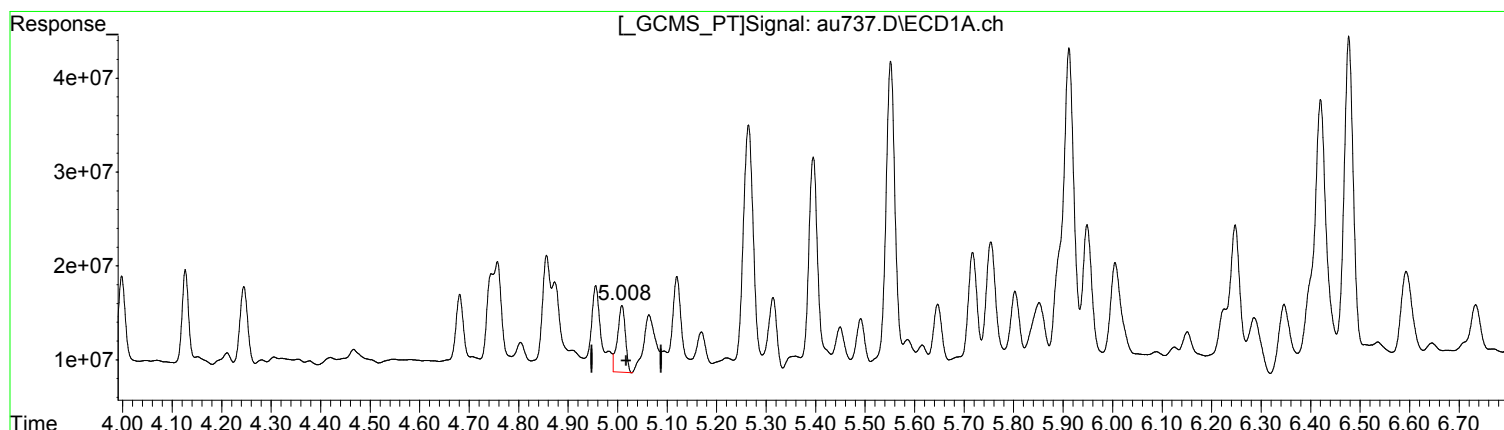
(10) alpha-Endosu #2 (tc)  
5.758min 4.404 ug/l m  
response 65053224

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(10) alpha-Endosu (tc)  
5.009min 3.793 ug/l  
response 79325540

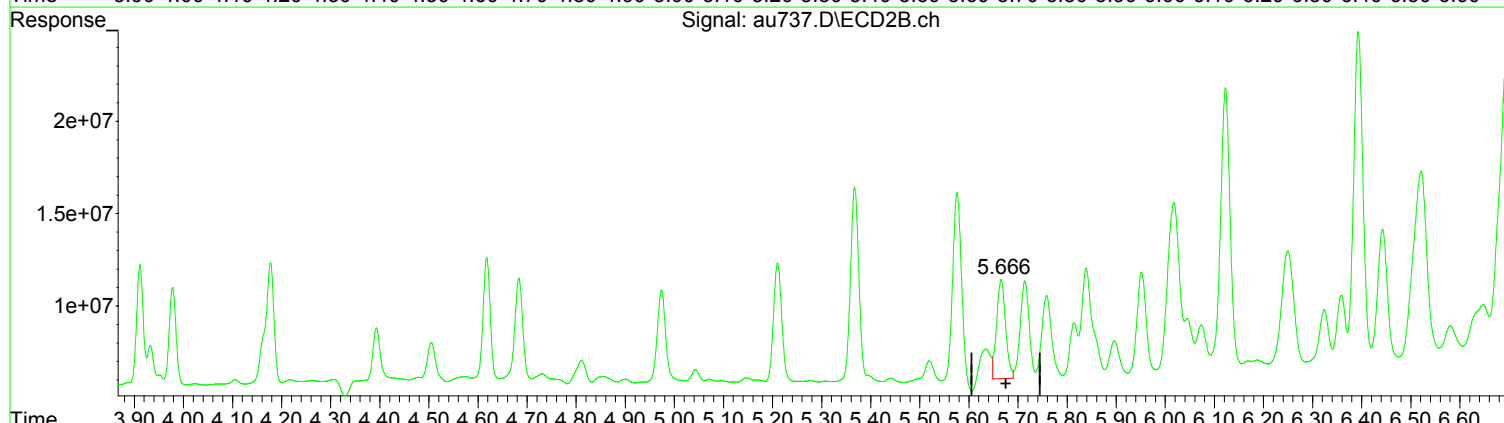
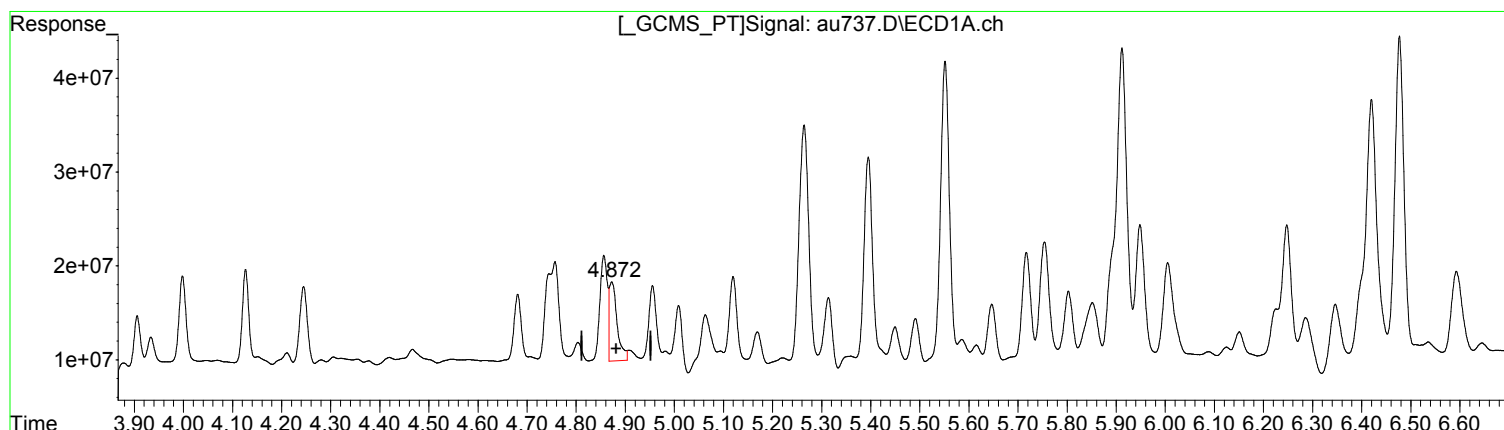
(10) alpha-Endosu #2 (tc)  
5.758min 5.615 ug/l  
response 82940185

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)  
4.872min 4.139 ug/l m  
response 91847359

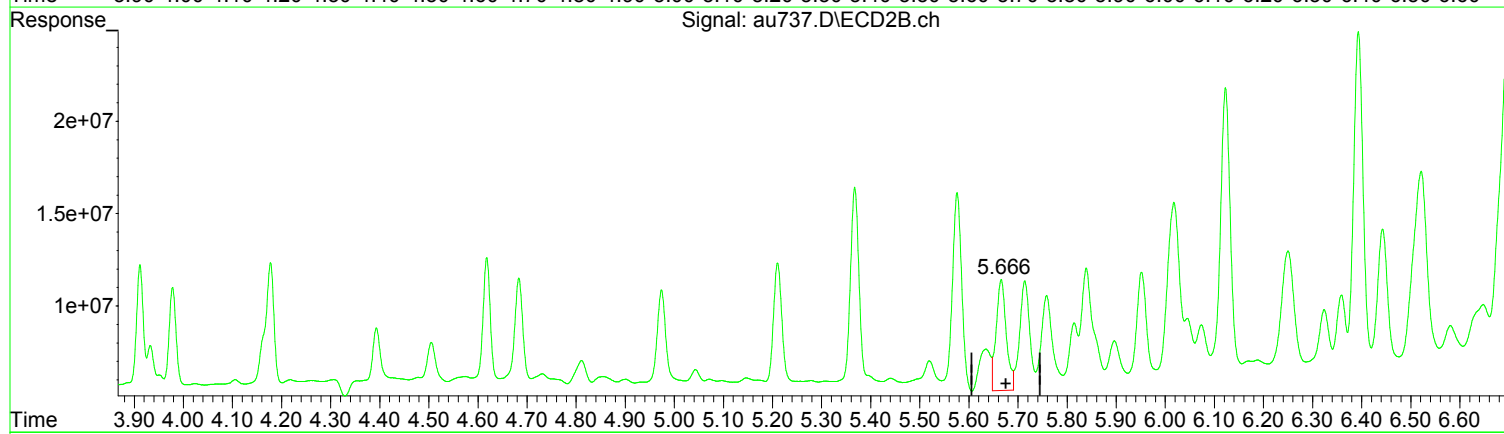
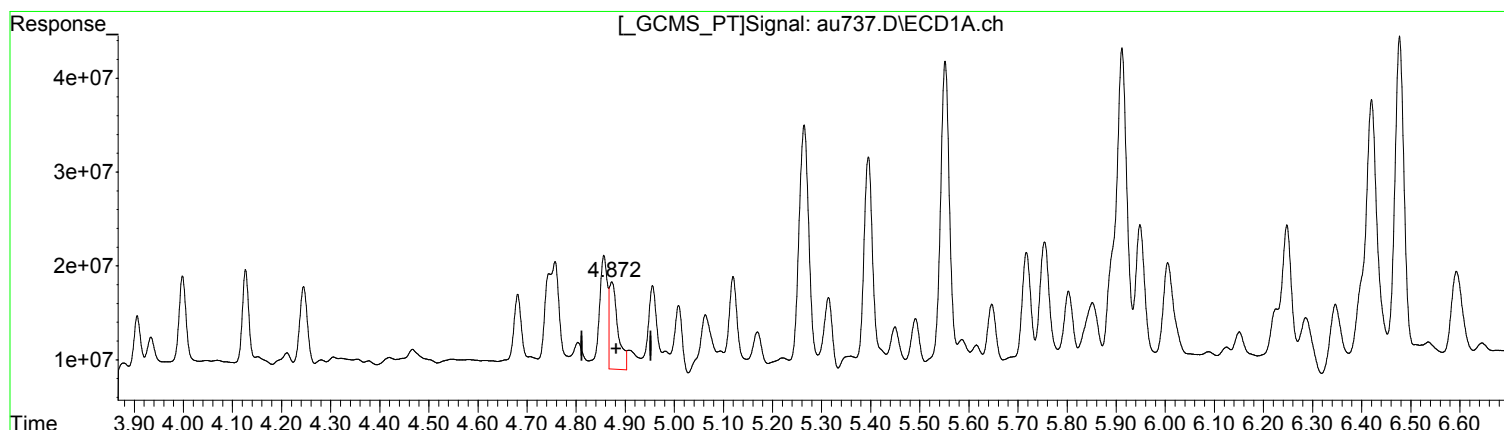
(11) gamma-Chlord #2 (tc)  
5.666min 4.156 ug/l m  
response 68384937

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)  
4.873min 5.080 ug/l  
response 112721973

(11) gamma-Chlord #2 (tc)  
5.666min 5.173 ug/l  
response 85122858

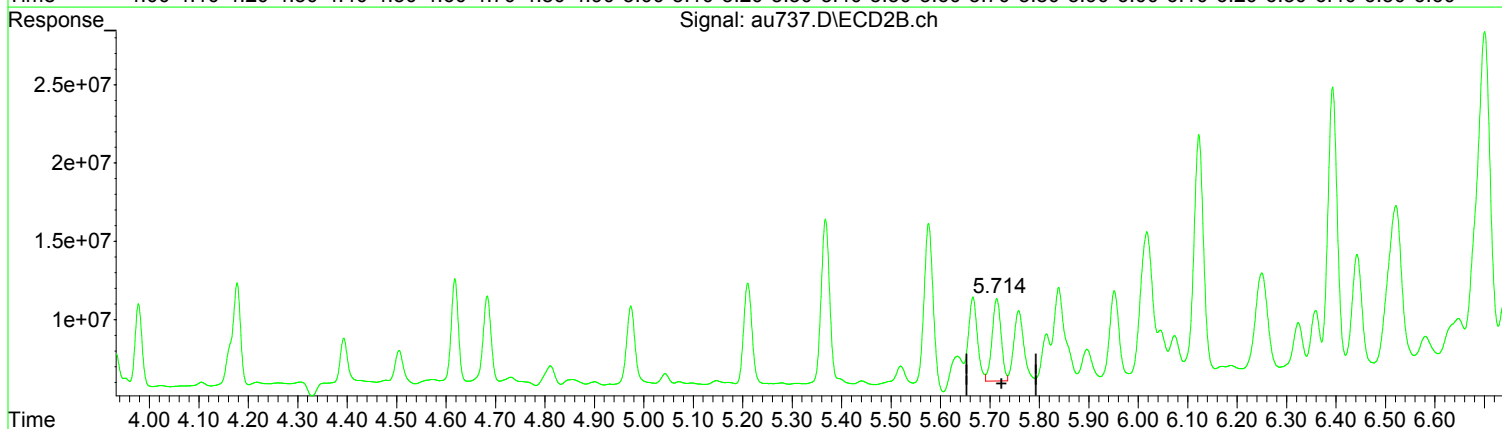
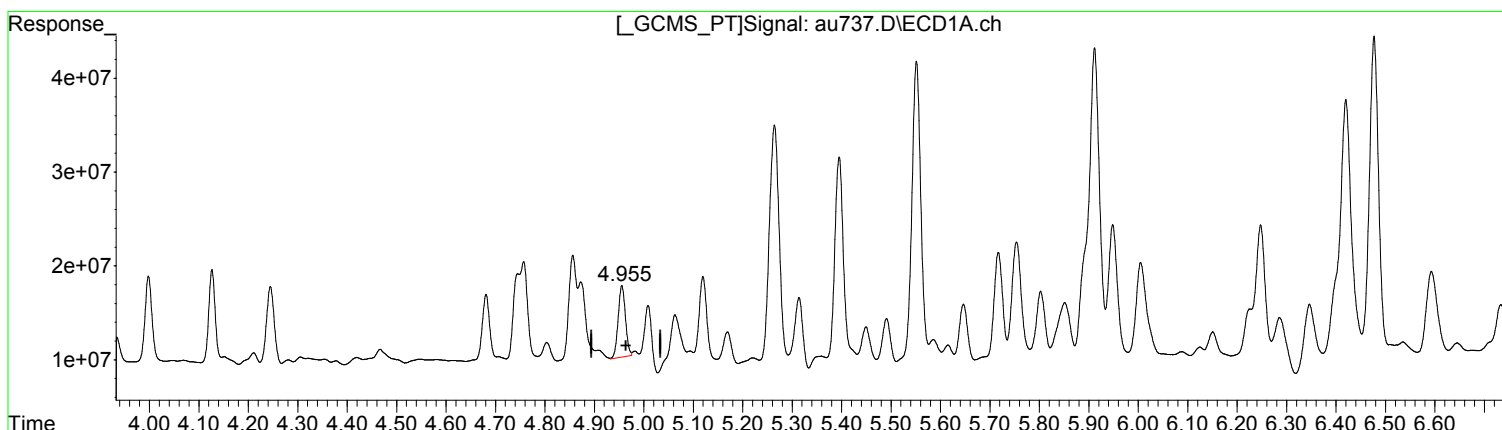
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(12) alpha-Chlord (tc)  
4.955min 3.660 ug/l m  
response 77934888

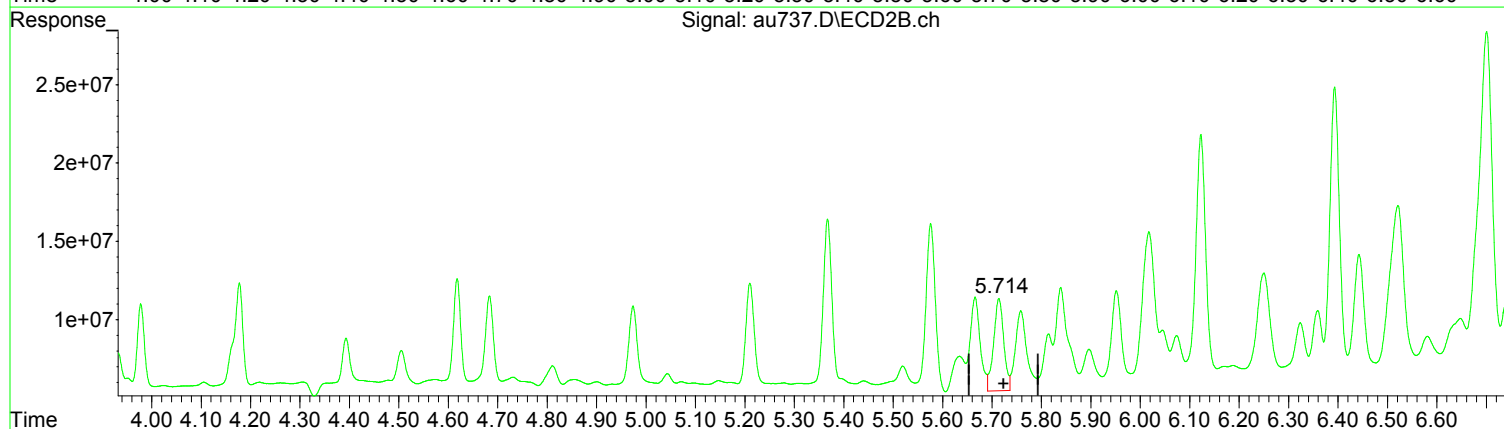
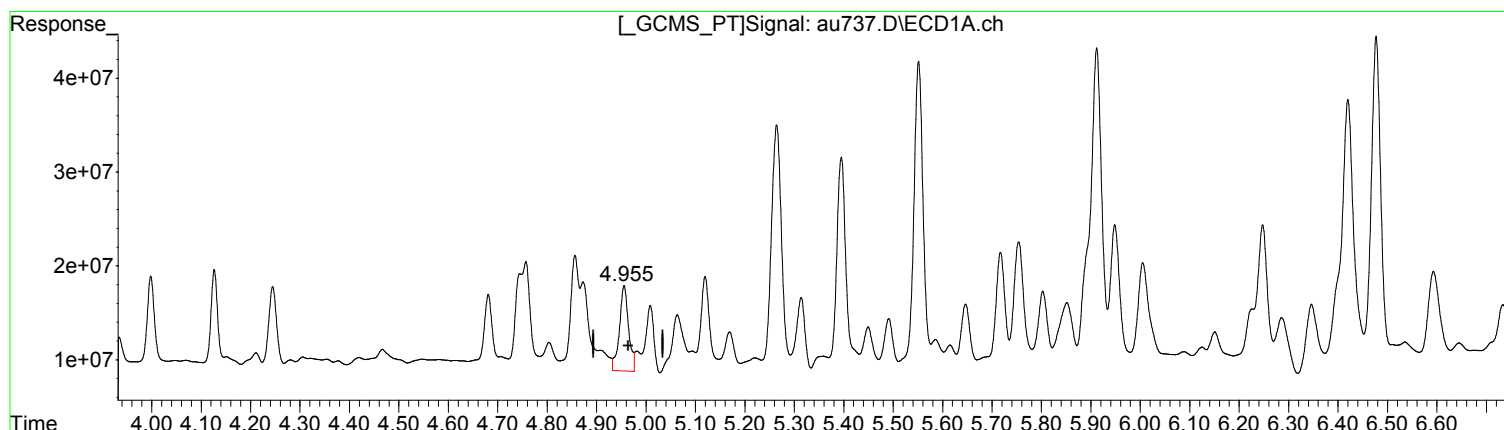
(12) alpha-Chlord #2 (tc)  
5.714min 4.160 ug/l m  
response 67100533

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(12) alpha-Chlord (tc)  
4.956min 5.489 ug/l  
response 116881370

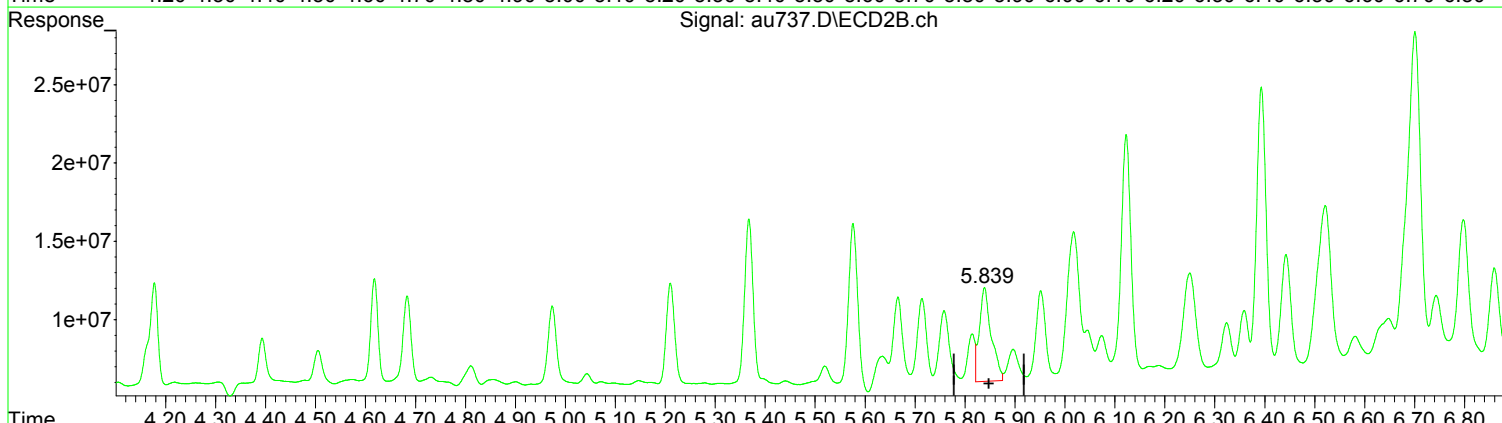
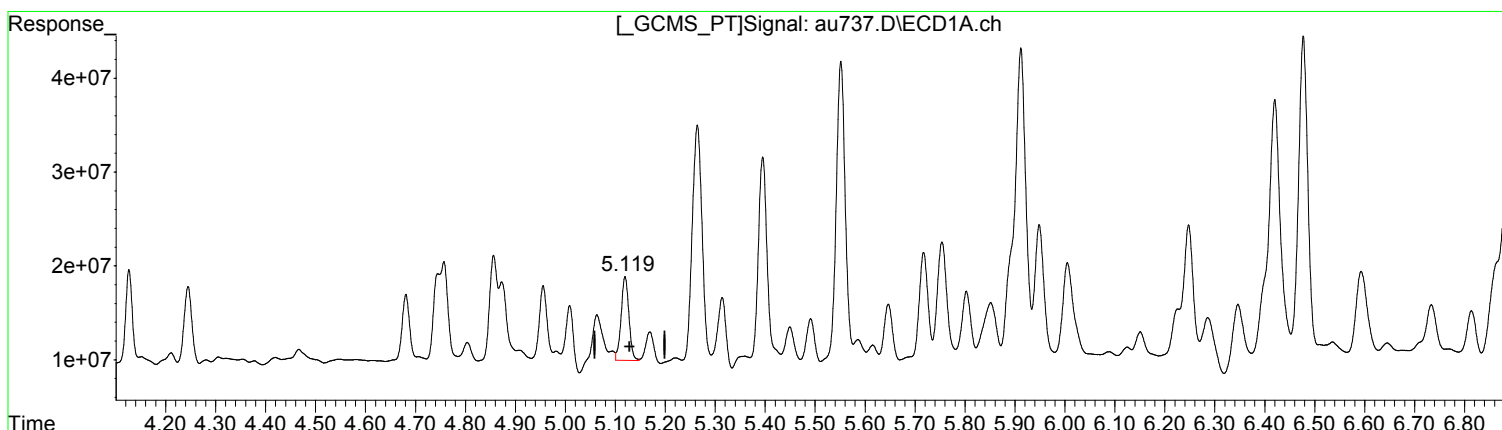
(12) alpha-Chlord #2 (tc)  
5.714min 5.221 ug/l  
response 84225542

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(13) 4,4'-DDE (tc)  
5.119min 4.634 ug/l m  
response 96826482

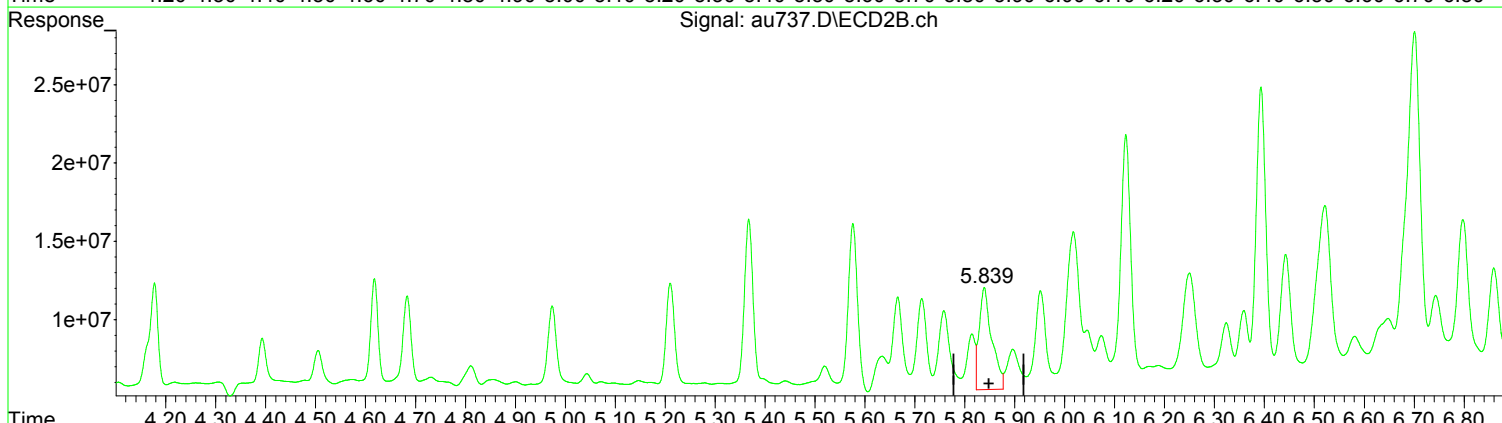
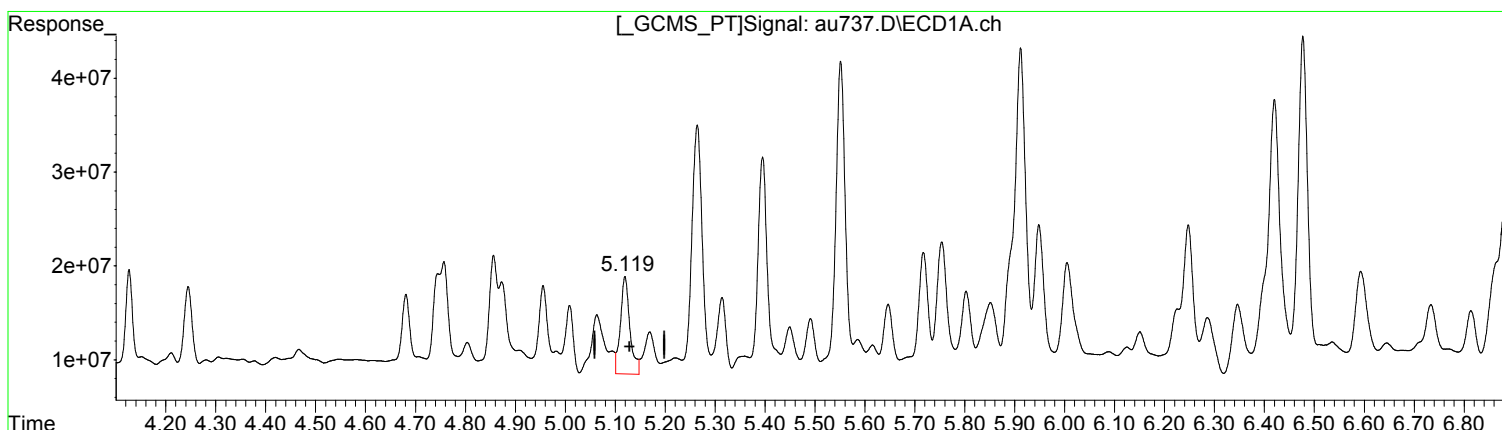
(13) 4,4'-DDE #2 (tc)  
5.839min 6.546 ug/l m  
response 98714898

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)  
5.120min 6.609 ug/l  
response 138086371

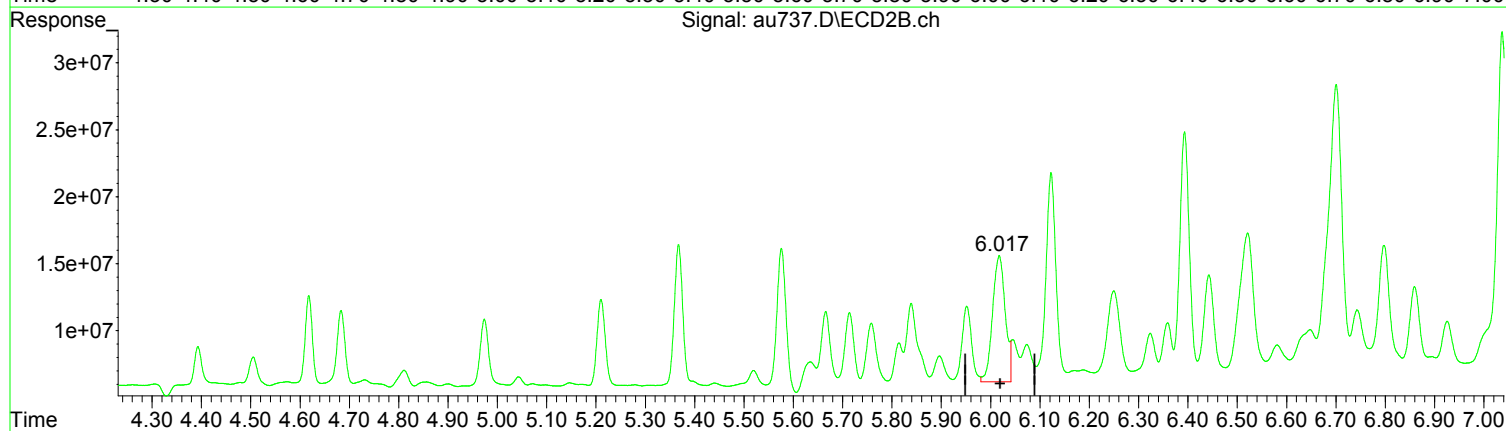
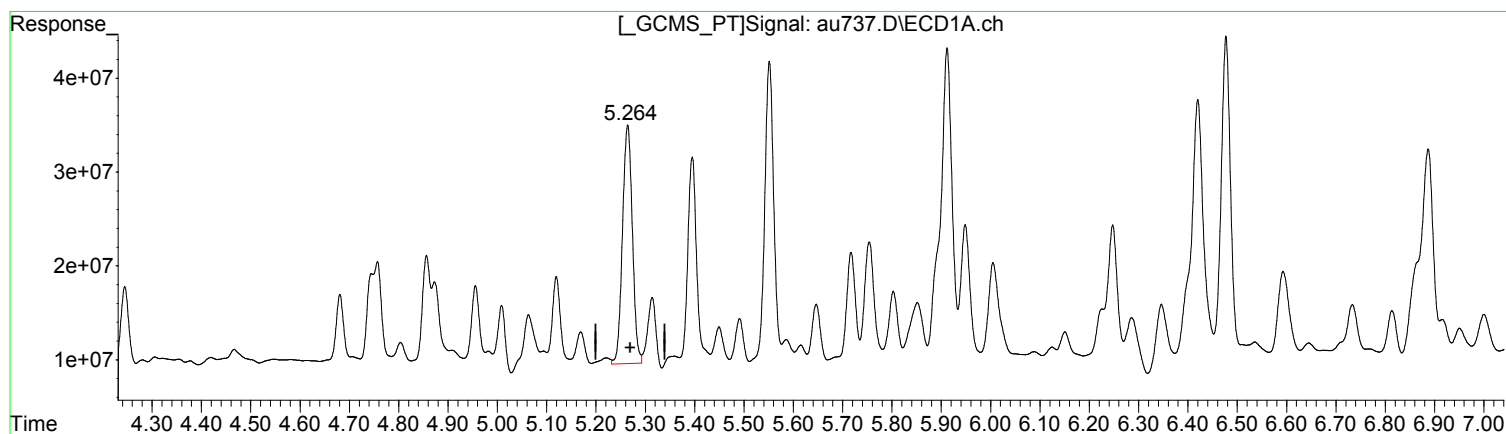
(13) 4,4'-DDE #2 (tc)  
5.839min 7.552 ug/l  
response 113882589

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(14) Dieldrin (tcm)  
5.264min 15.648 ug/l m  
response 354311362

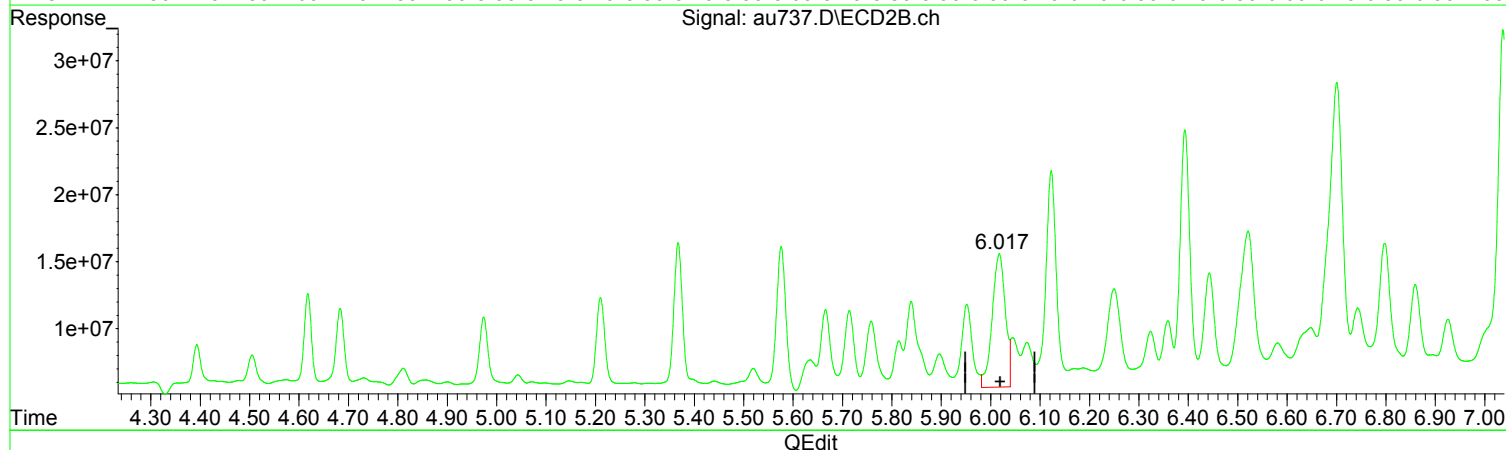
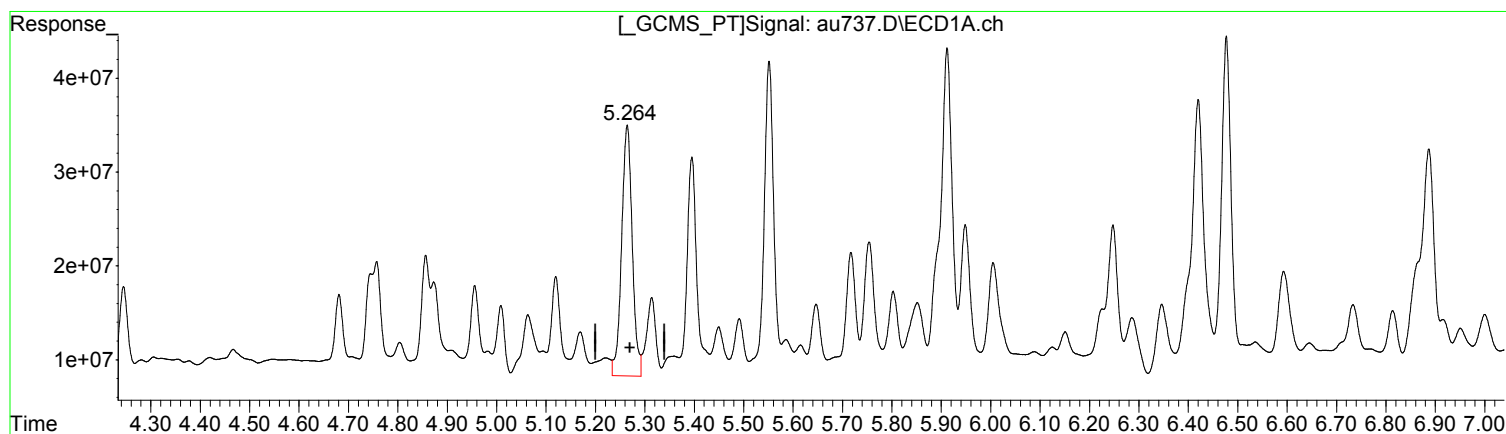
(14) Dieldrin #2 (tcm)  
6.017min 10.435 ug/l m  
response 168948354

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(14) Dieldrin (tcm)  
5.264min 17.676 ug/l  
response 400210061

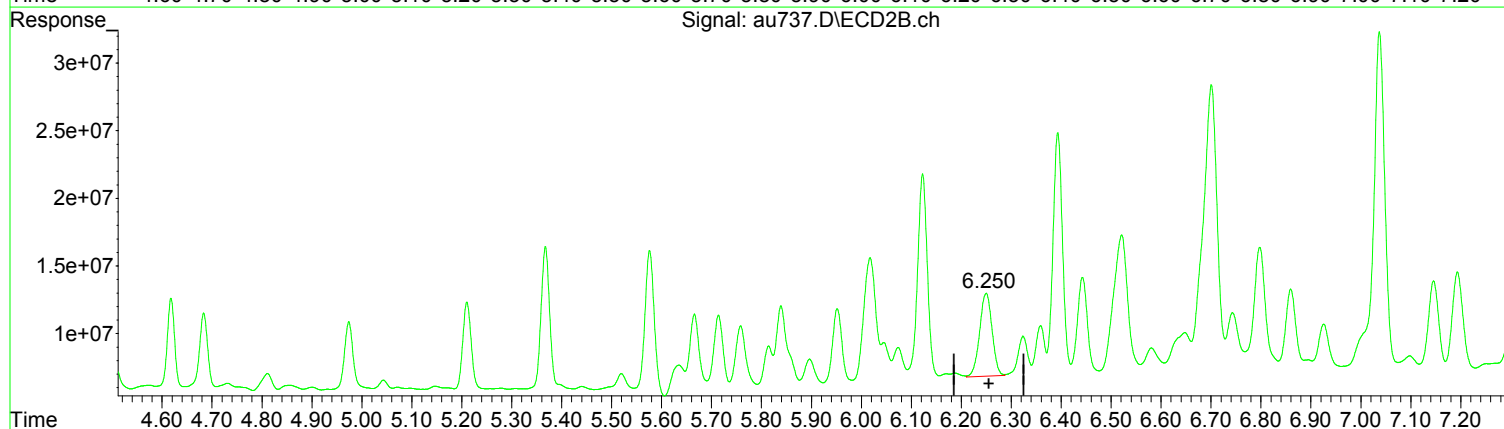
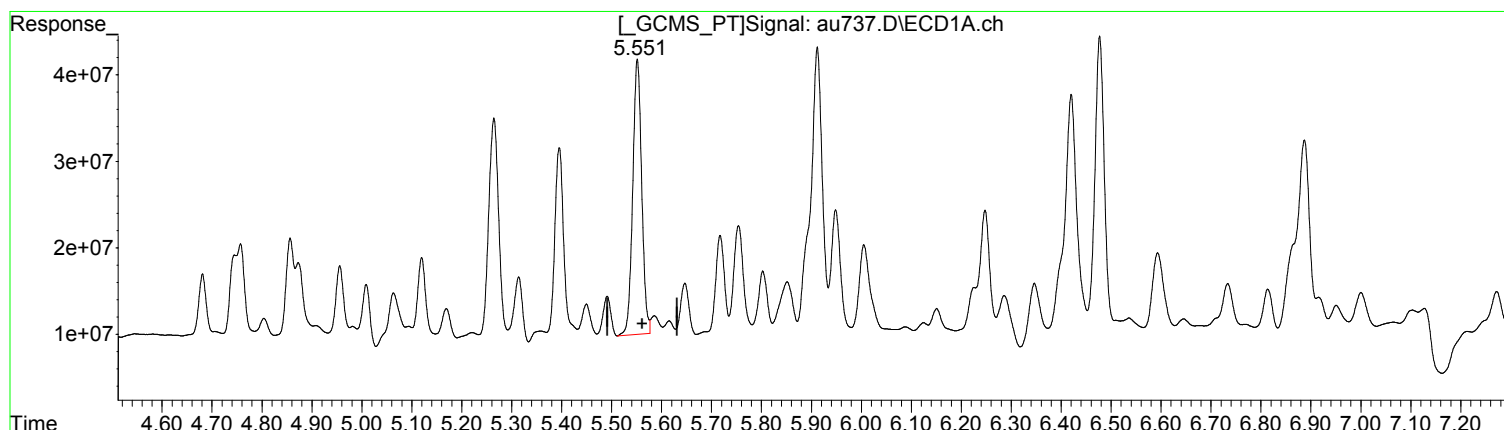
(14) Dieldrin #2 (tcm)  
6.018min 11.340 ug/l  
response 183593240

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) Endrin (tcm)  
5.551min 20.200 ug/l m  
response 398536068

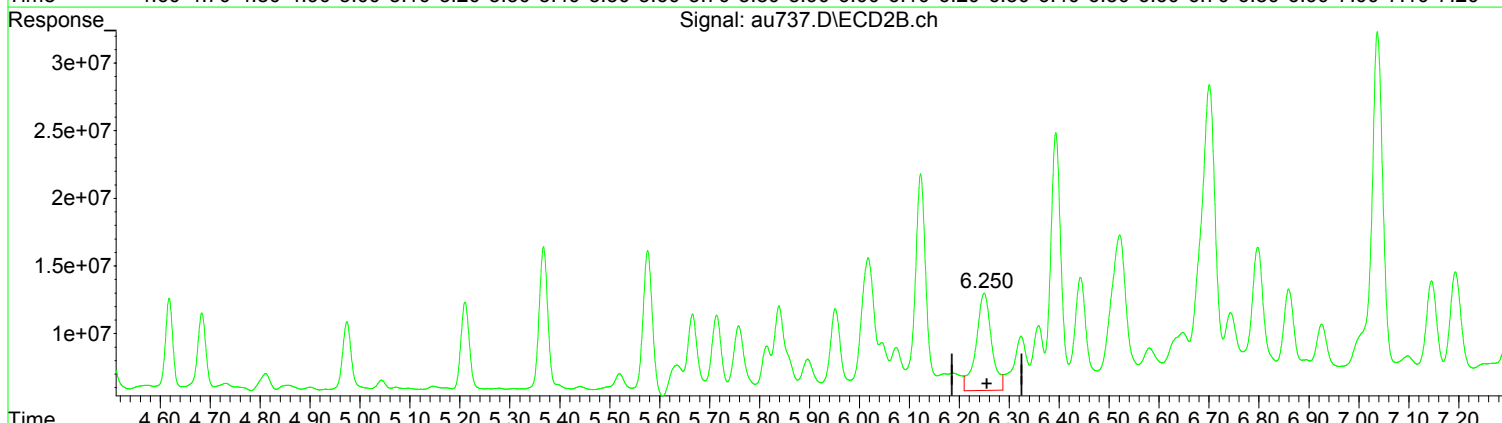
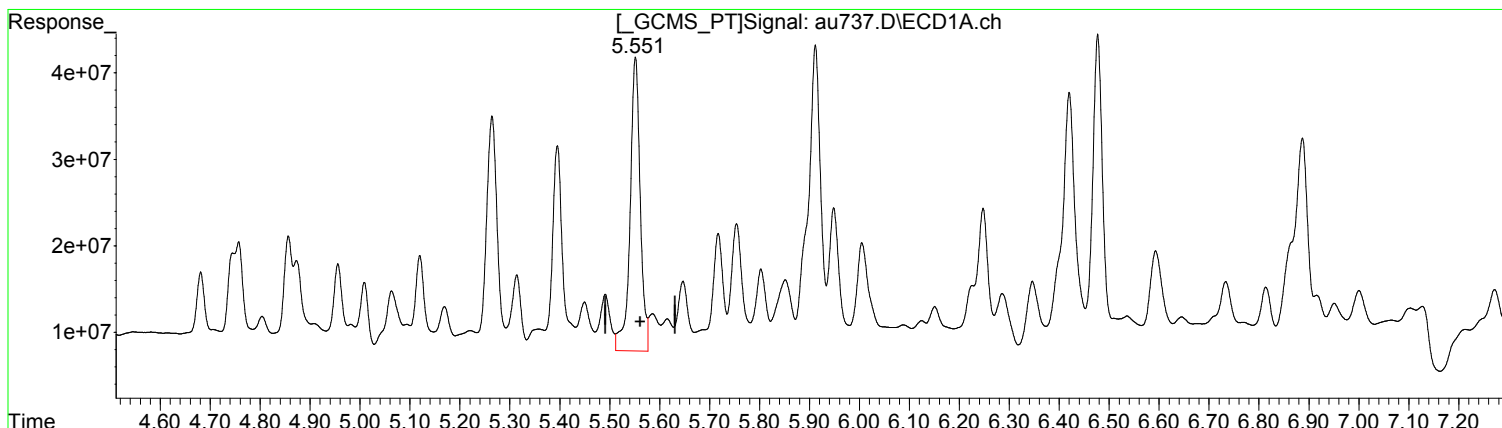
(15) Endrin #2 (tcm)  
6.250min 7.240 ug/l m  
response 106235125

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(15) Endrin (tcm)  
5.552min 24.350 ug/l  
response 480429009

(15) Endrin #2 (tcm)  
6.250min 10.564 ug/l  
response 155023510

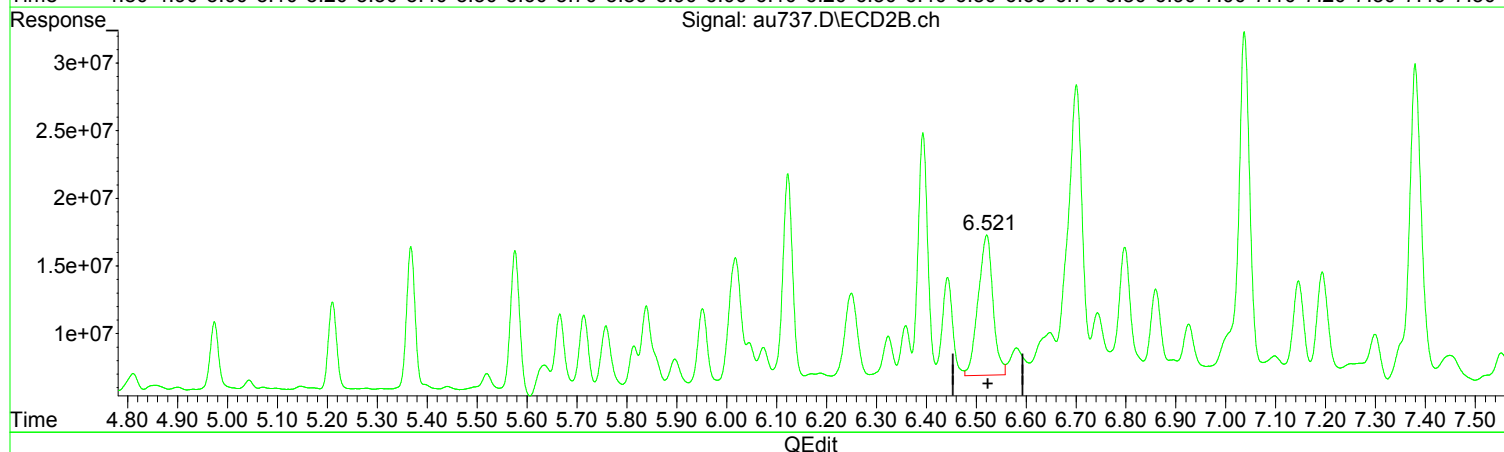
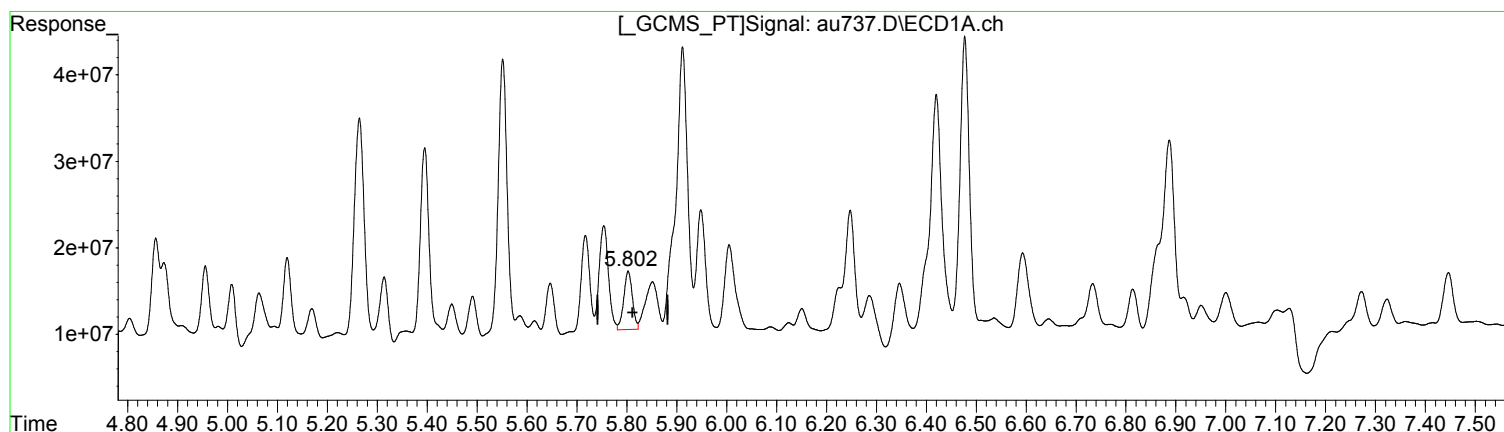
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)  
5.802min 4.194 ug/l m  
response 81299446

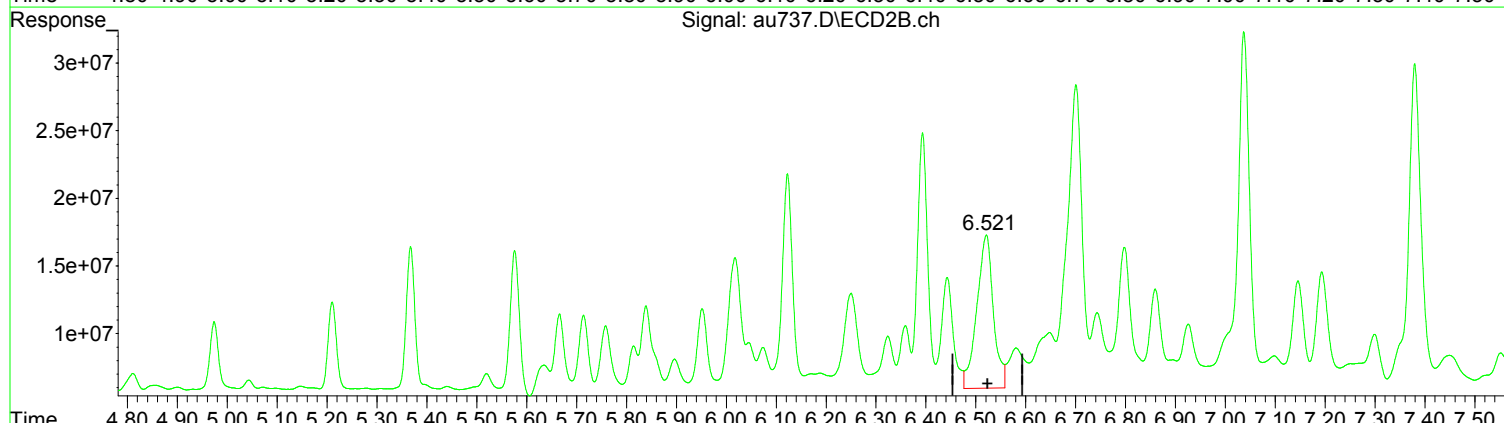
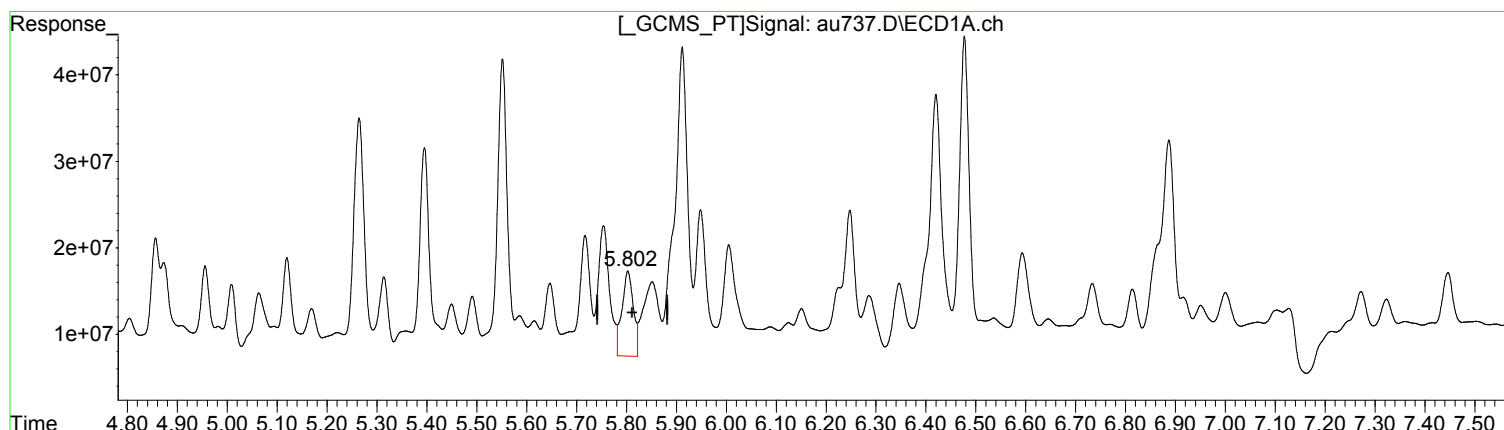
(17) beta-Endosul #2 (tc)  
6.521min 14.916 ug/l m  
response 213562070

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(17) beta-Endosul (tc)  
5.803min 8.072 ug/l  
response 156478620

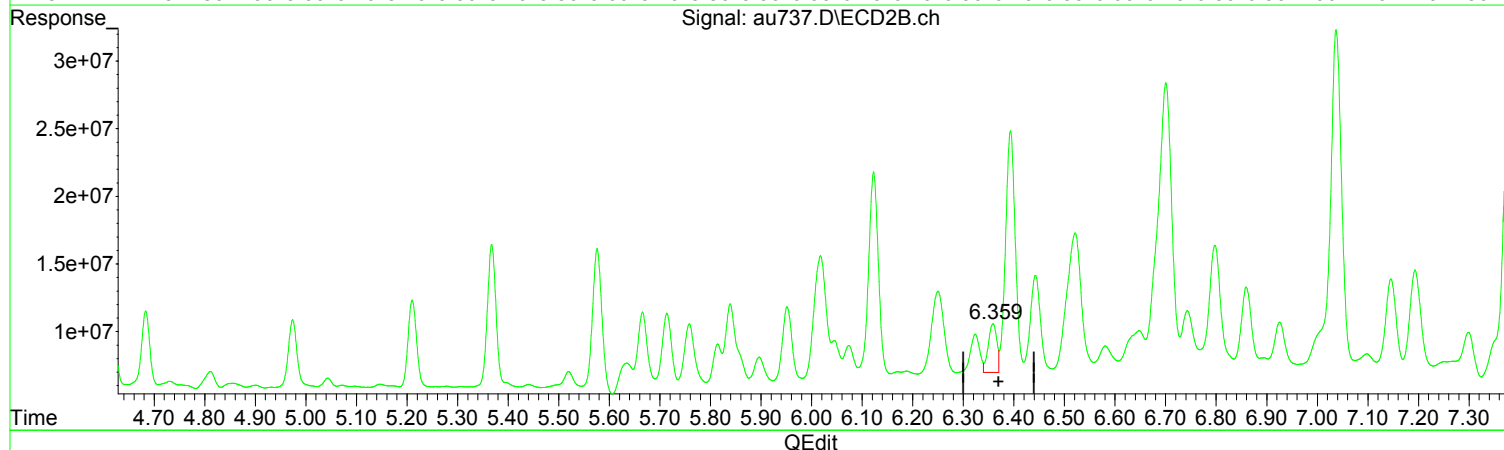
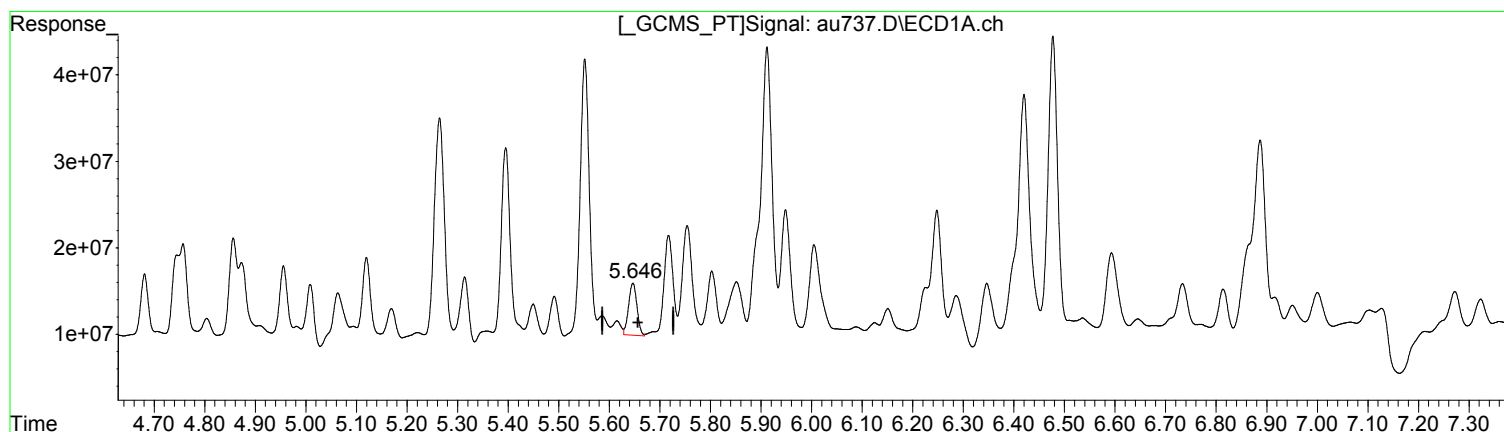
(17) beta-Endosul #2 (tc)  
6.521min 18.271 ug/l  
response 261597369

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)  
5.646min 3.708 ug/l m  
response 69027667

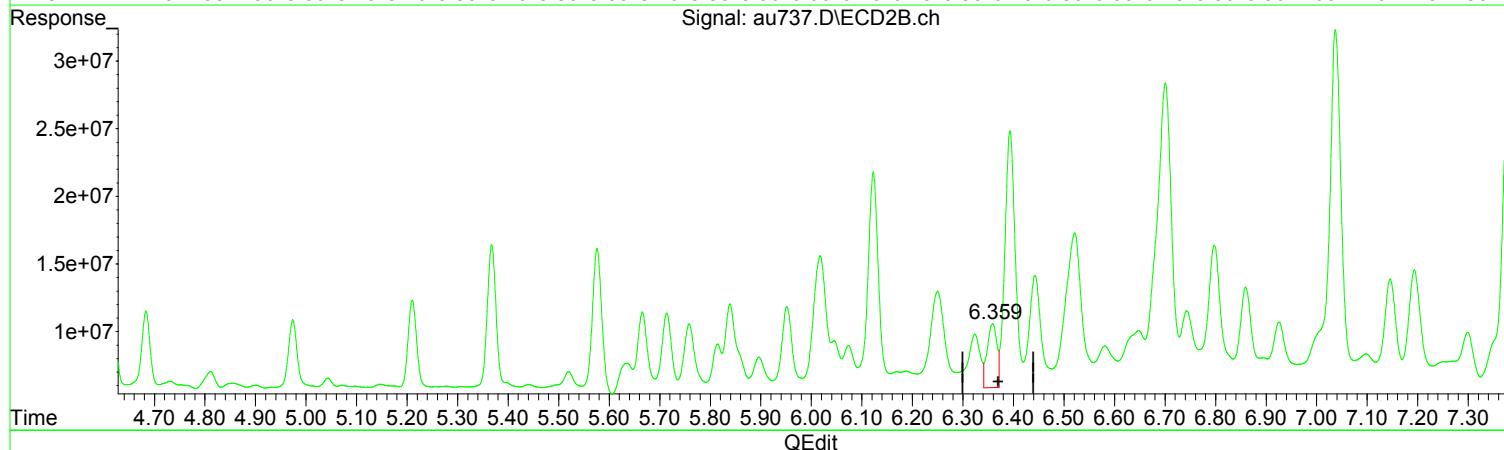
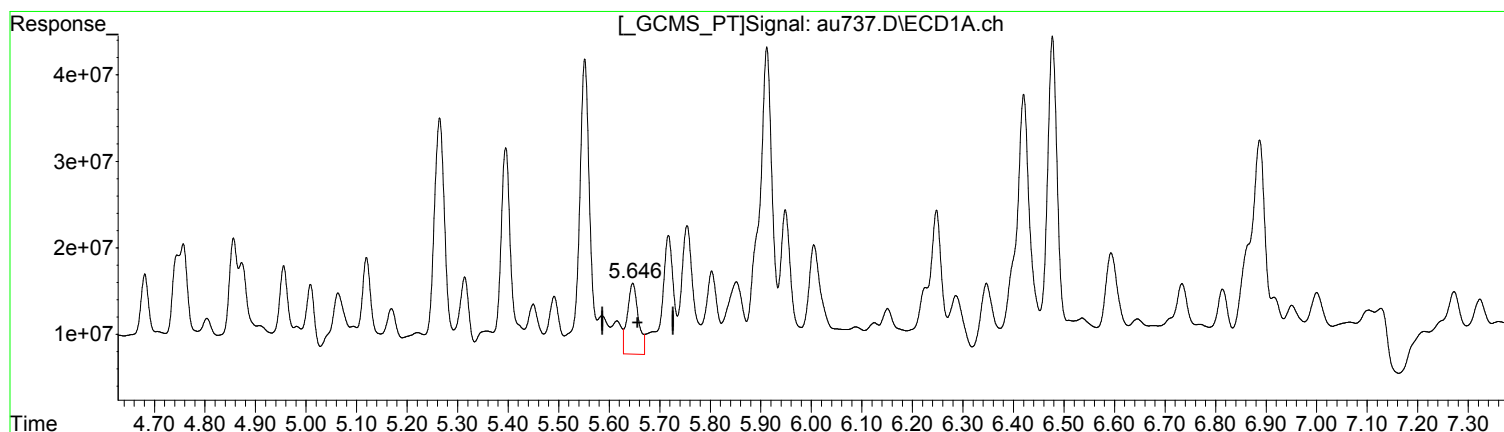
(18) 4,4'-DDD #2 (tc)  
6.359min 3.189 ug/l m  
response 41591805

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(18) 4,4'-DDD (tc)  
5.647min 6.694 ug/l  
response 124613958

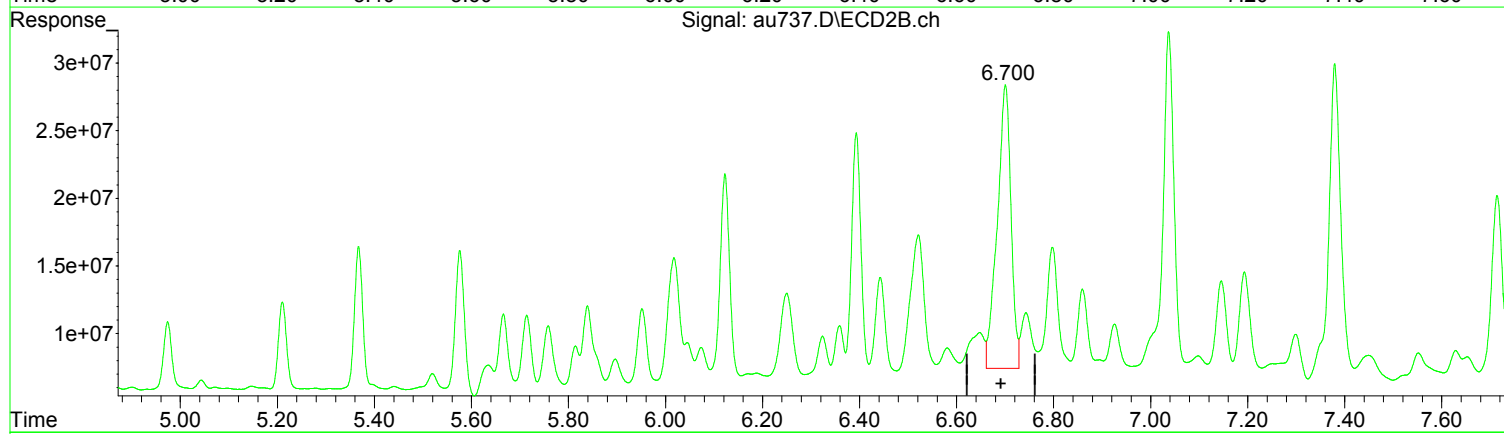
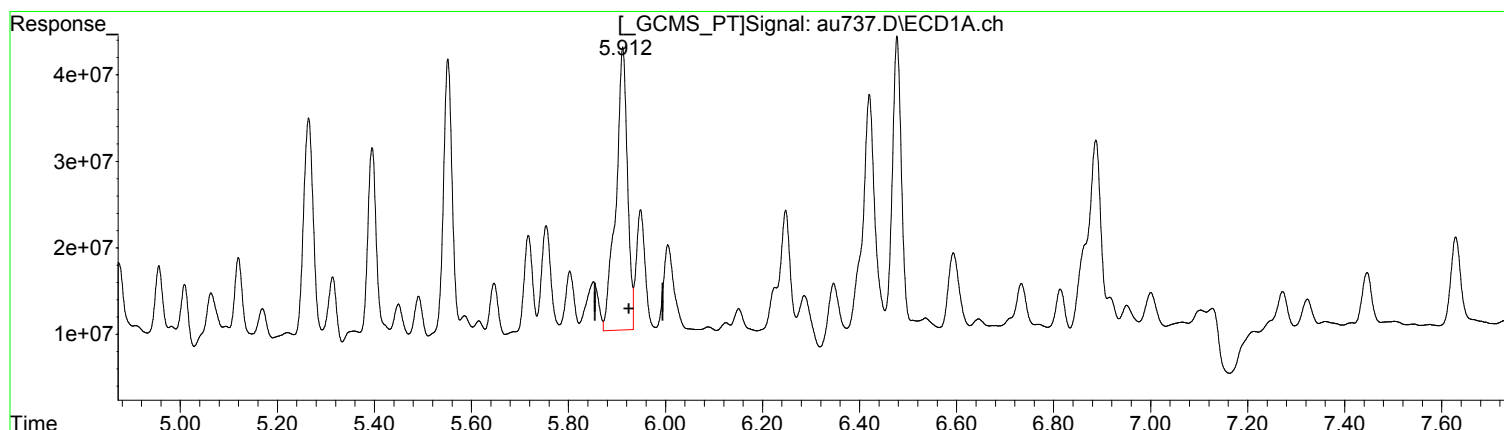
(18) 4,4'-DDD #2 (tc)  
6.359min 4.861 ug/l  
response 63397389

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(19) 4,4'-DDT (tcm)  
5.912min 30.099 ug/l m  
response 542577049

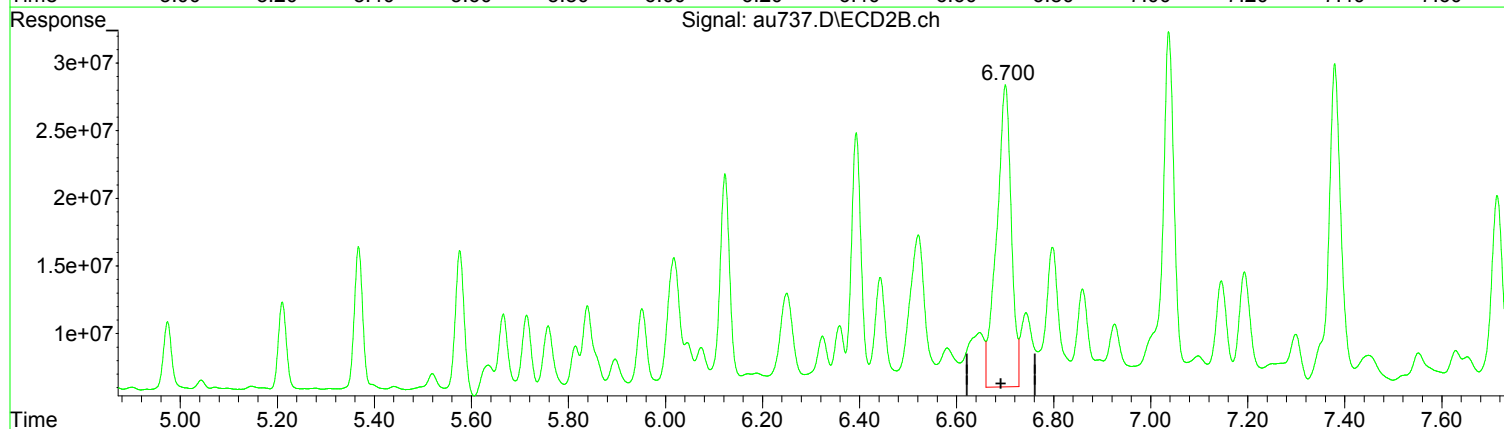
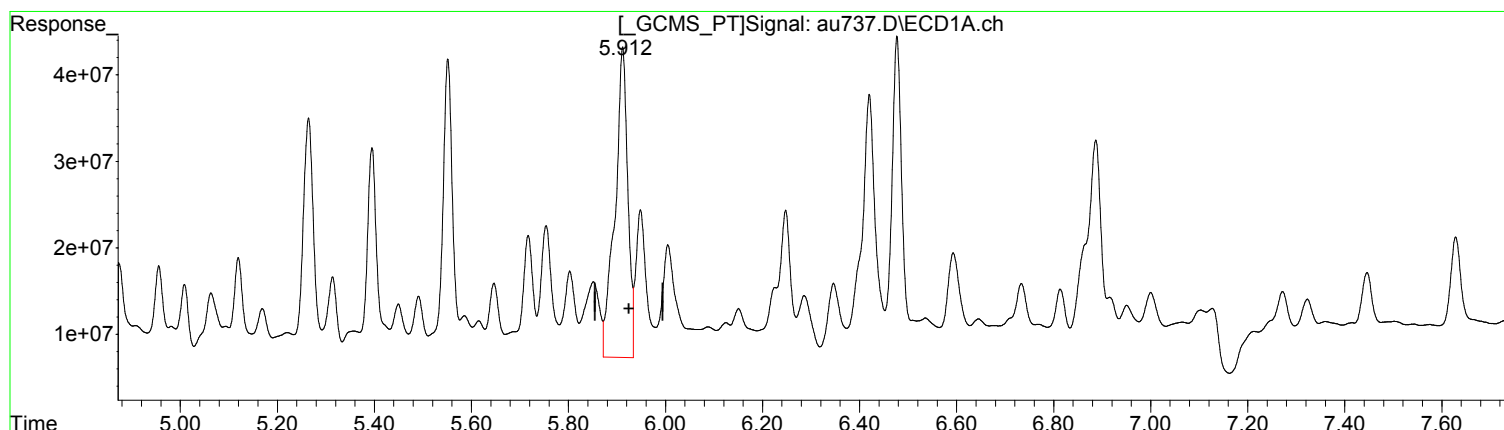
(19) 4,4'-DDT #2 (tcm)  
6.700min 30.126 ug/l m  
response 412095445

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(19) 4,4'-DDT (tcm)  
5.912min 36.583 ug/l  
response 659472445

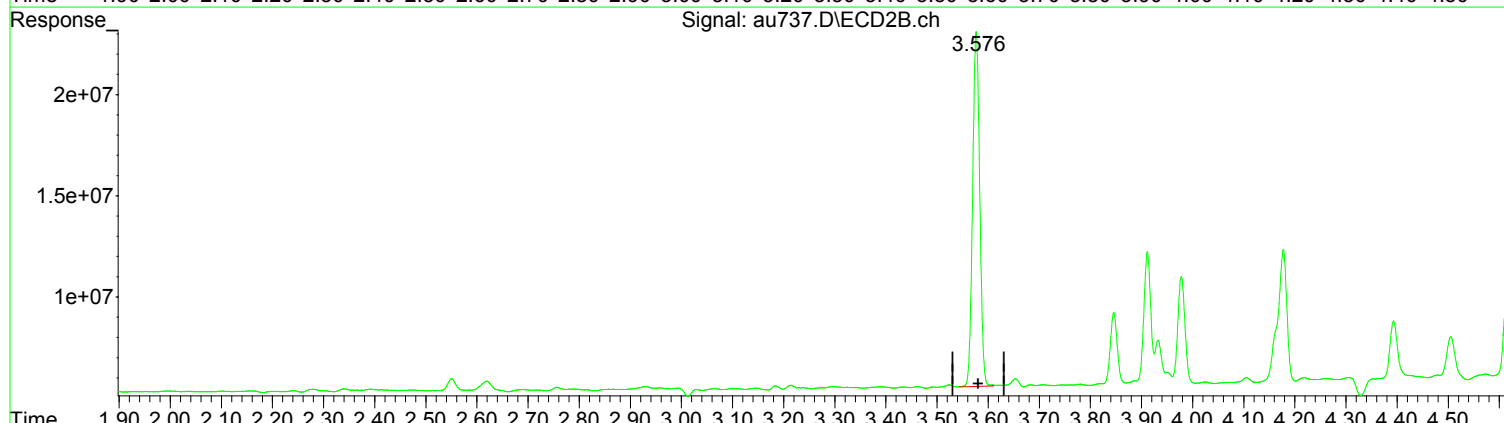
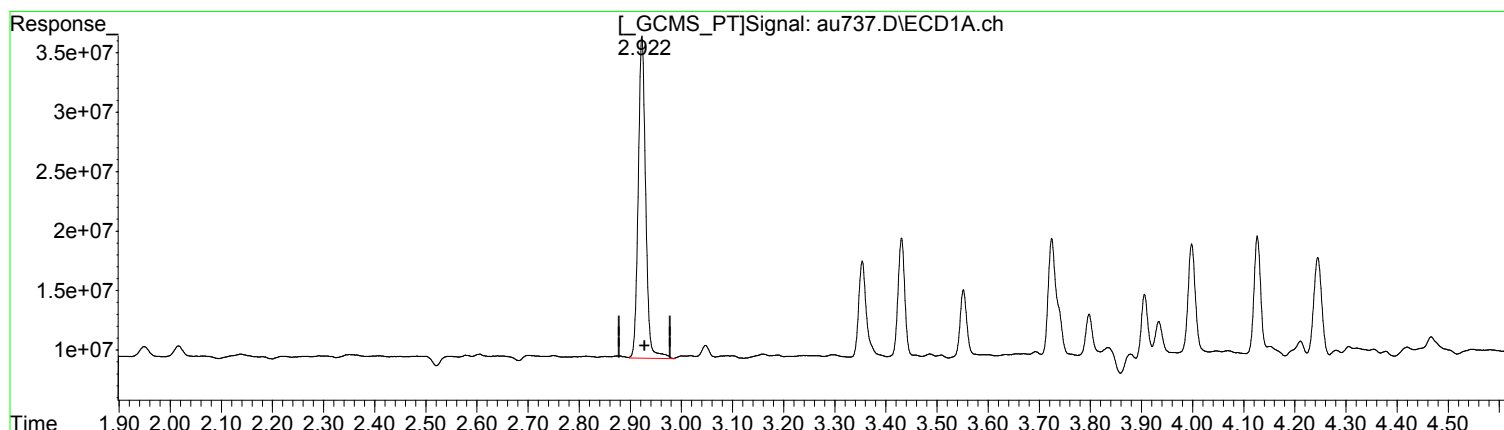
(19) 4,4'-DDT #2 (tcm)  
6.701min 34.180 ug/l  
response 467551886

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1,Tetrac (S)  
2.923min 11.709 ug/l  
response 272884104

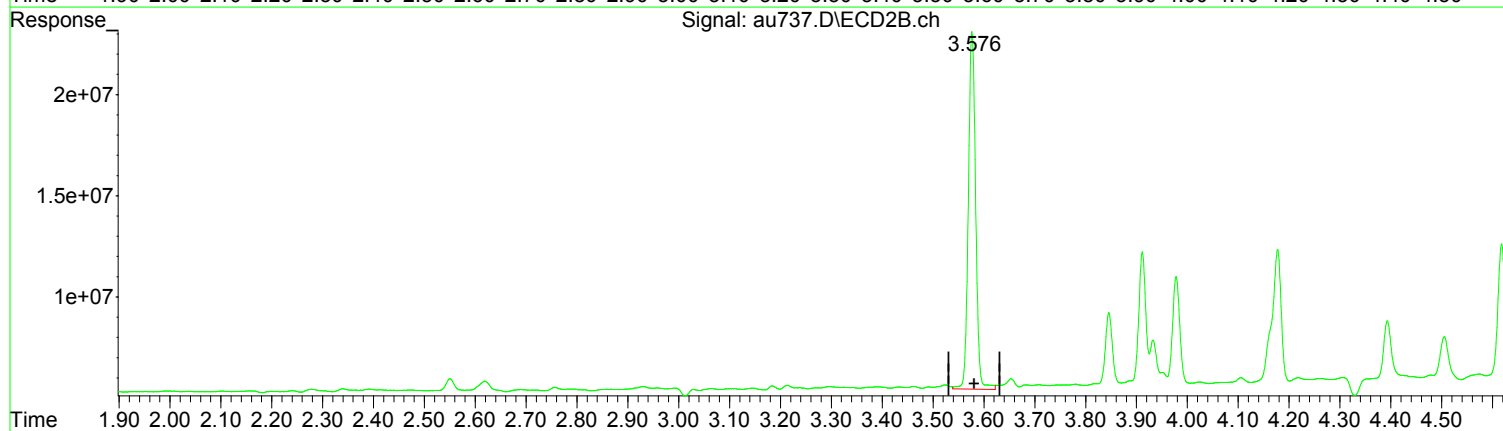
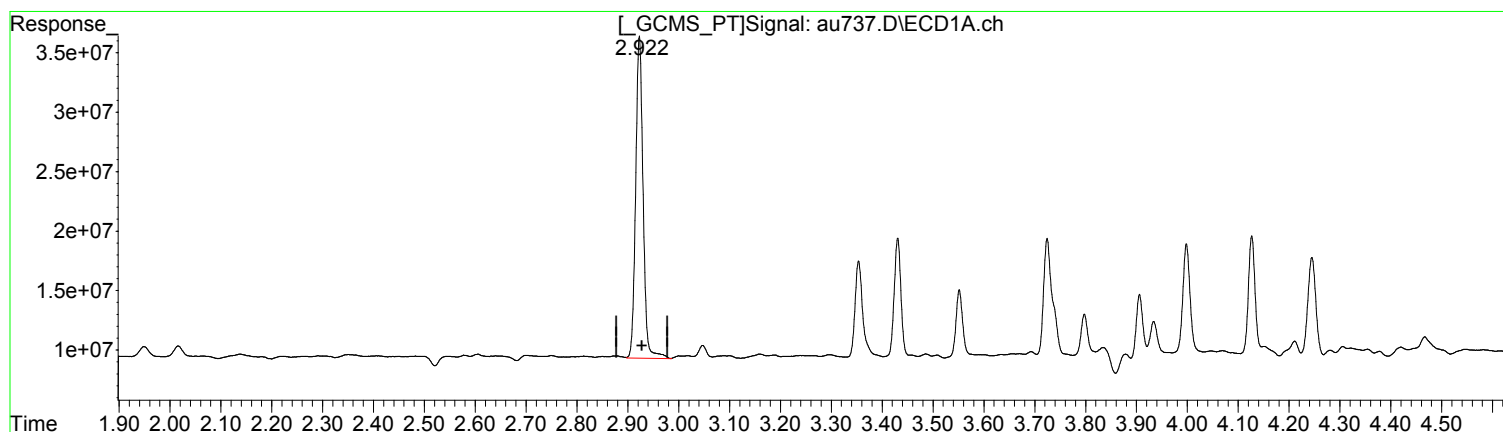
(1) SURR1,Tetrac #2 (S)  
3.576min 10.965 ug/l m  
response 169102522

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(1) SURR1,Tetrac (S)  
2.923min 11.709 ug/l  
response 272884104

(1) SURR1,Tetrac #2 (S)  
3.577min 11.431 ug/l  
response 176280759

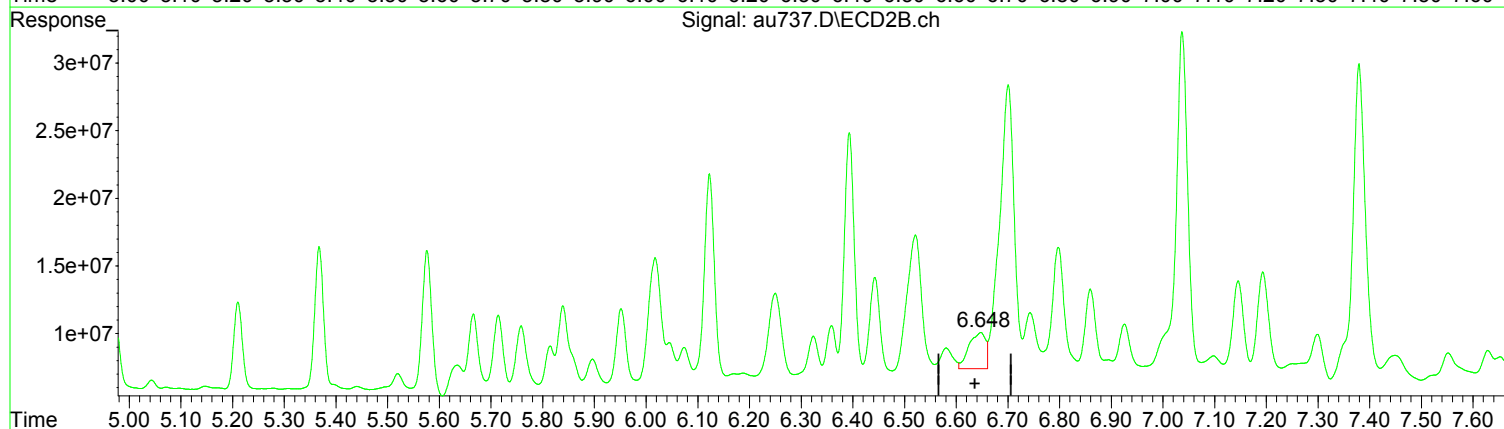
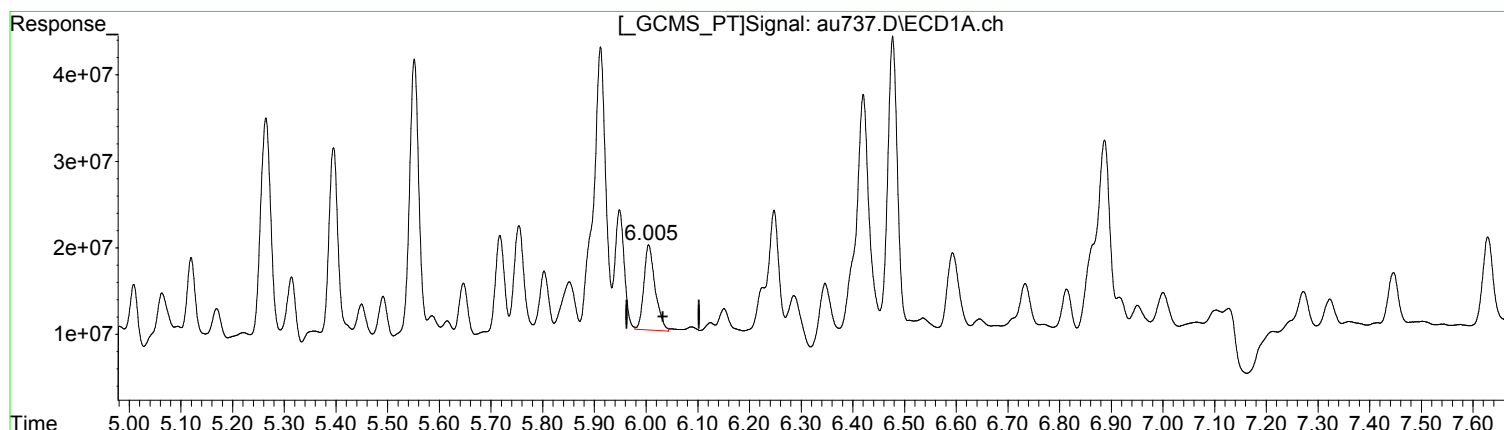
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)  
6.005min 8.865 ug/l m  
response 148737936

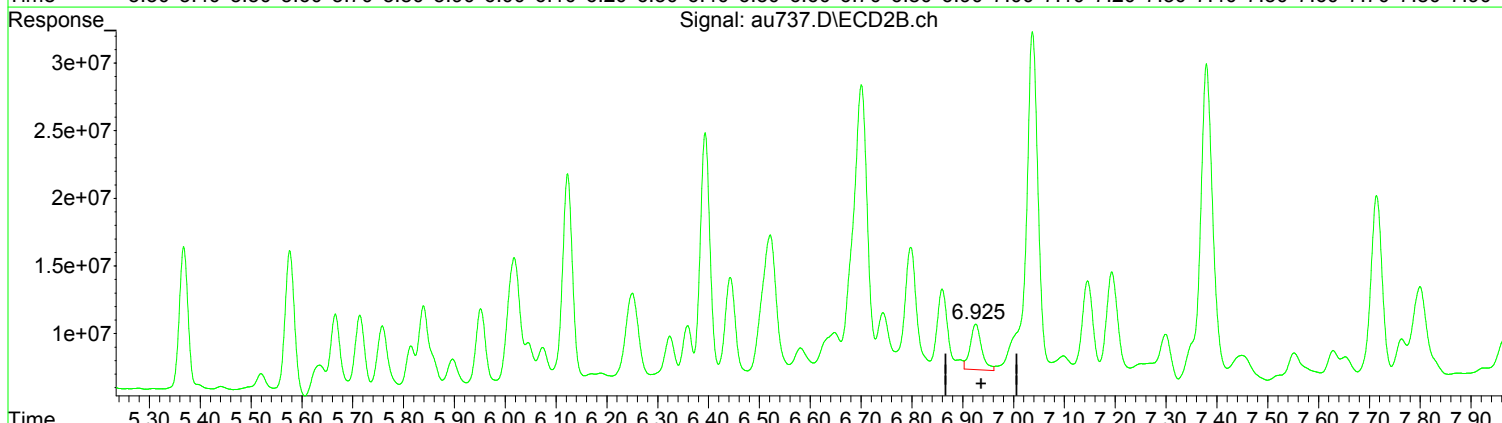
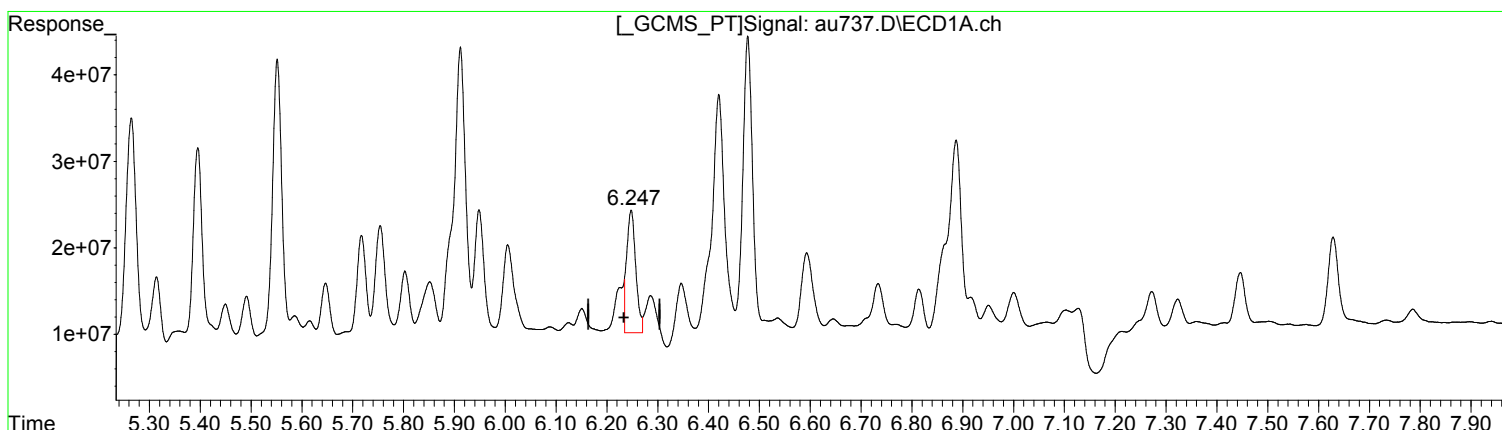
(20) Endrin Aldeh #2 (tc)  
6.648min 5.208 ug/l m  
response 59712182

Manual Integration:  
After  
Peak not found.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endosulfan S (tc)  
6.247min 9.673 ug/l m  
response 175043558

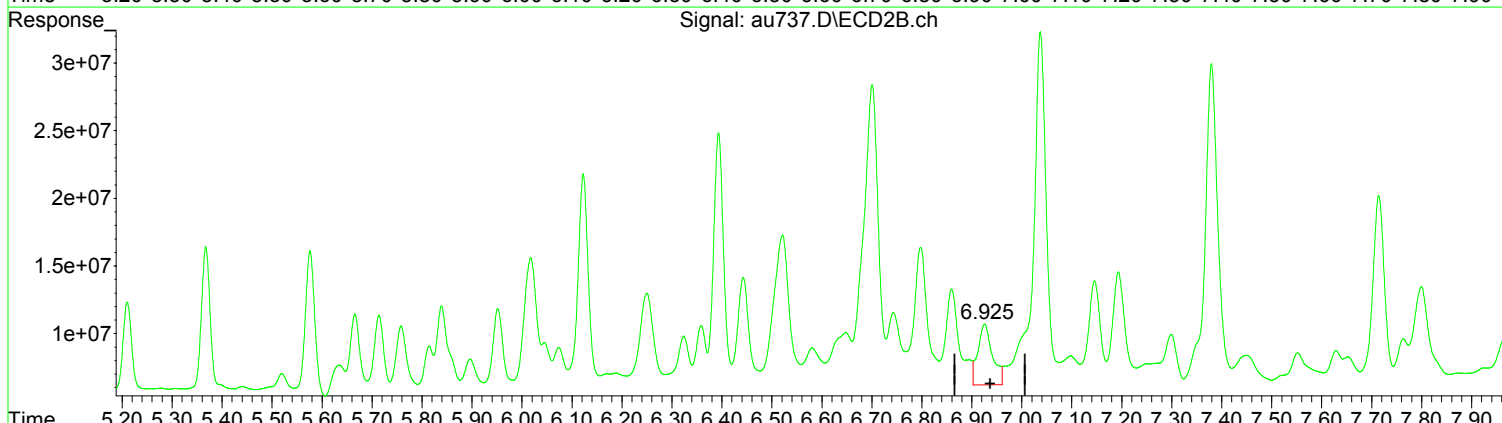
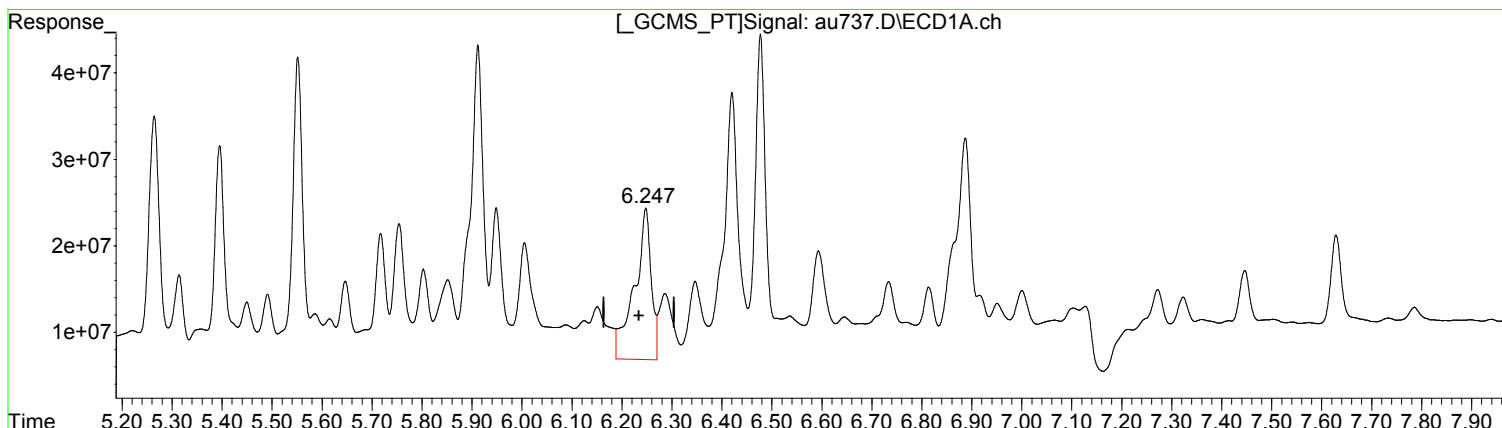
(21) Endosulfan S #2 (tc)  
6.925min 4.015 ug/l m  
response 52475142

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(21) Endosulfan S (tc)  
6.248min 22.569 ug/l  
response 408404636

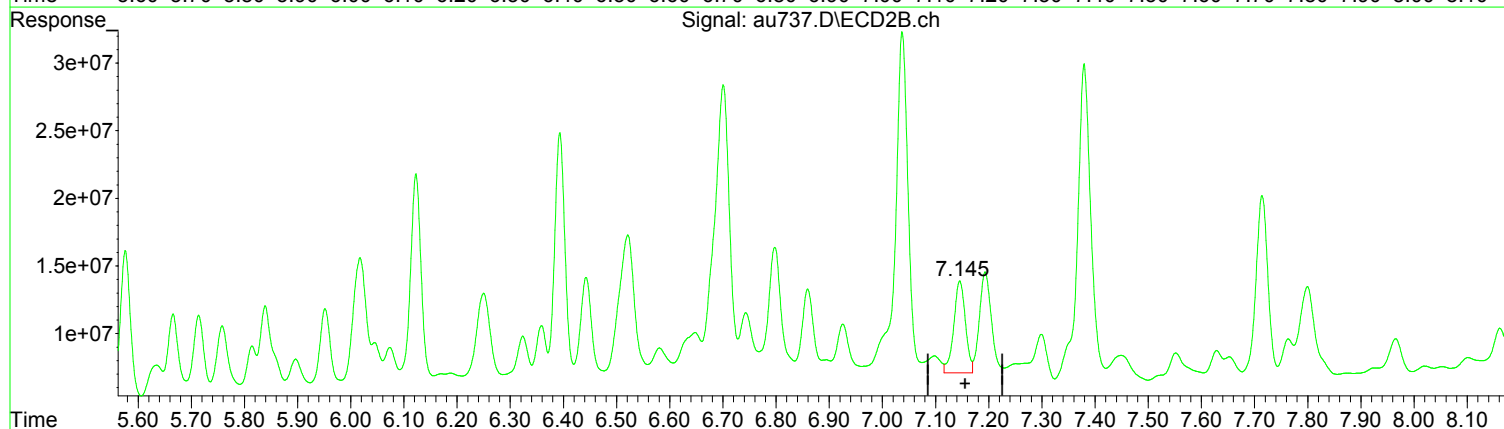
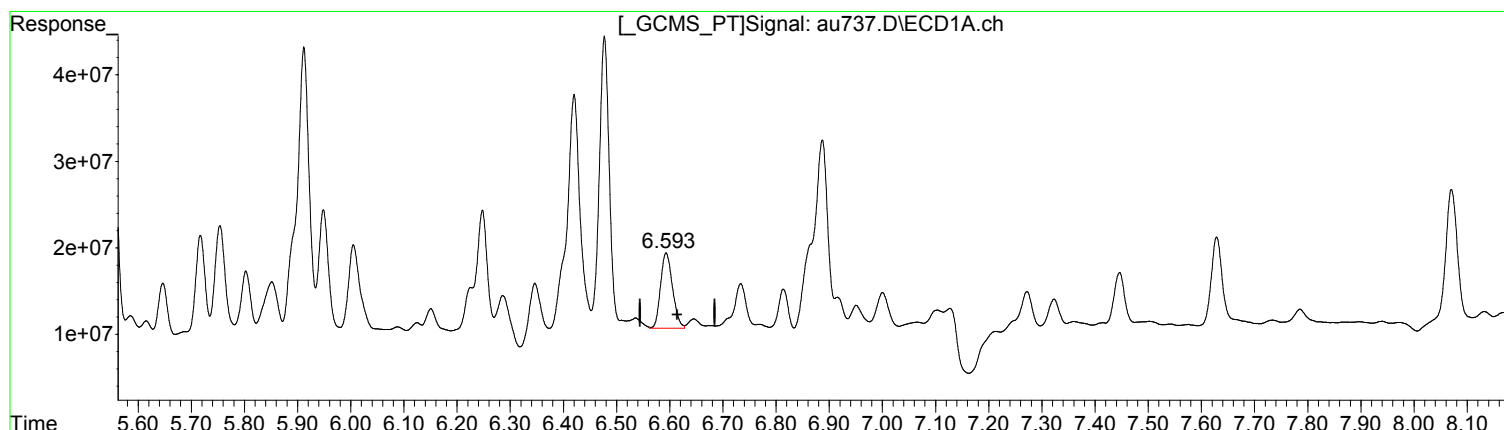
(21) Endosulfan S #2 (tc)  
6.926min 7.005 ug/l  
response 91549026

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)  
6.593min 15.182 ug/l m  
response 135769132

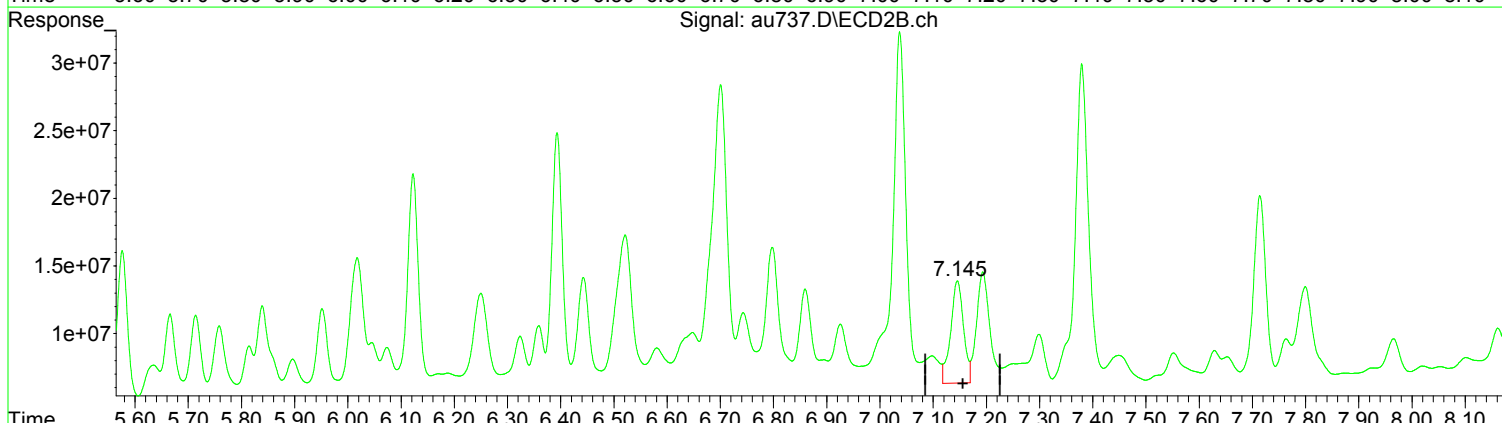
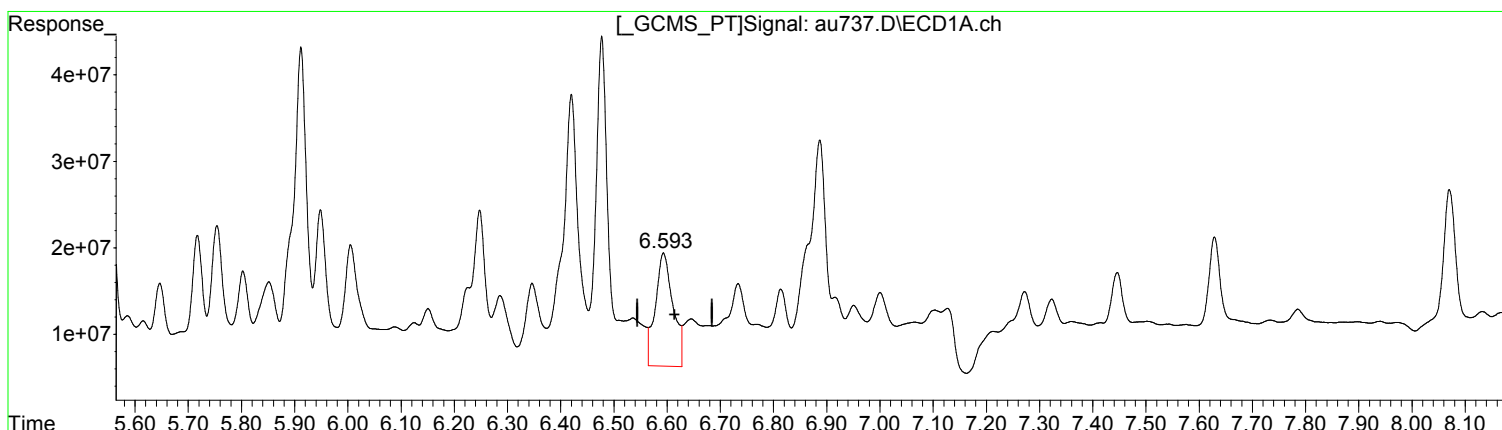
(22) Methoxychlor #2 (tc)  
7.145min 14.000 ug/l m  
response 103892342

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)  
6.593min 33.775 ug/l  
response 302035484

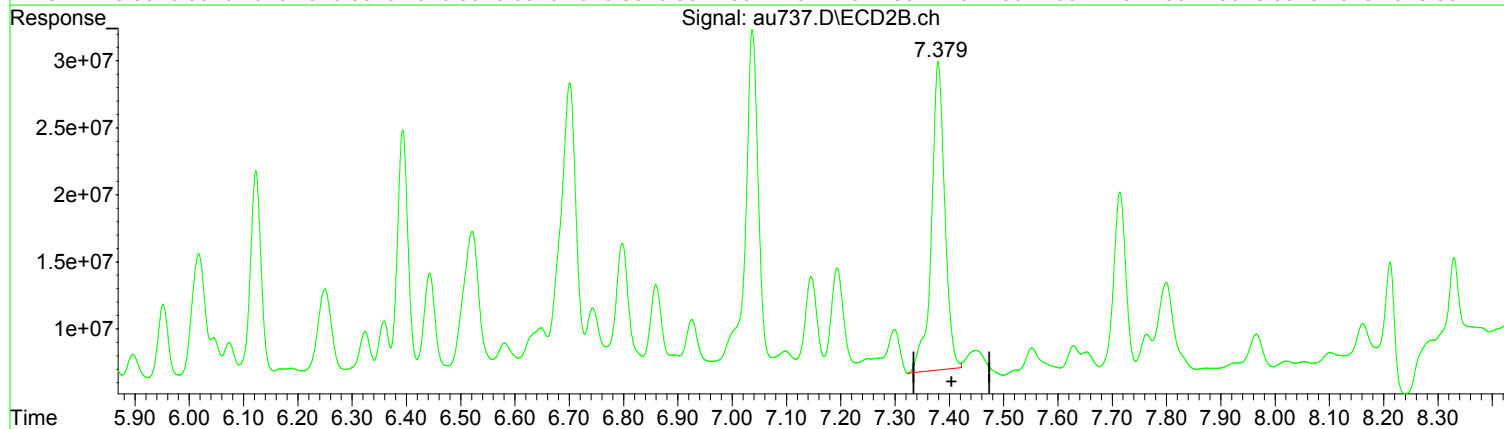
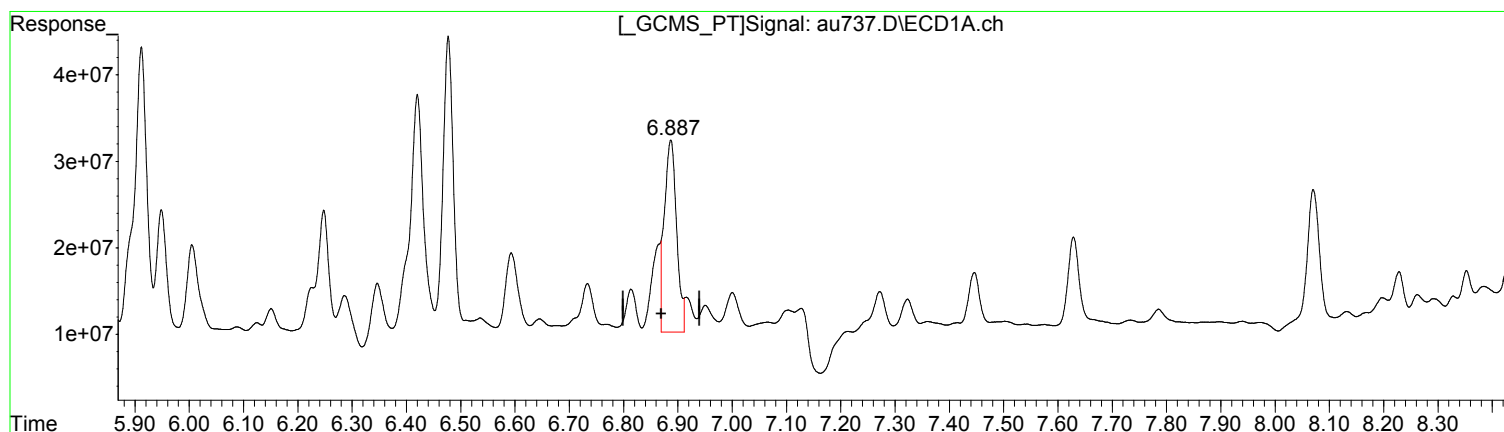
(22) Methoxychlor #2 (tc)  
7.146min 17.065 ug/l  
response 126635233

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(24) Endrin Keton (tc)  
6.887min 17.747 ug/l m  
response 346097551

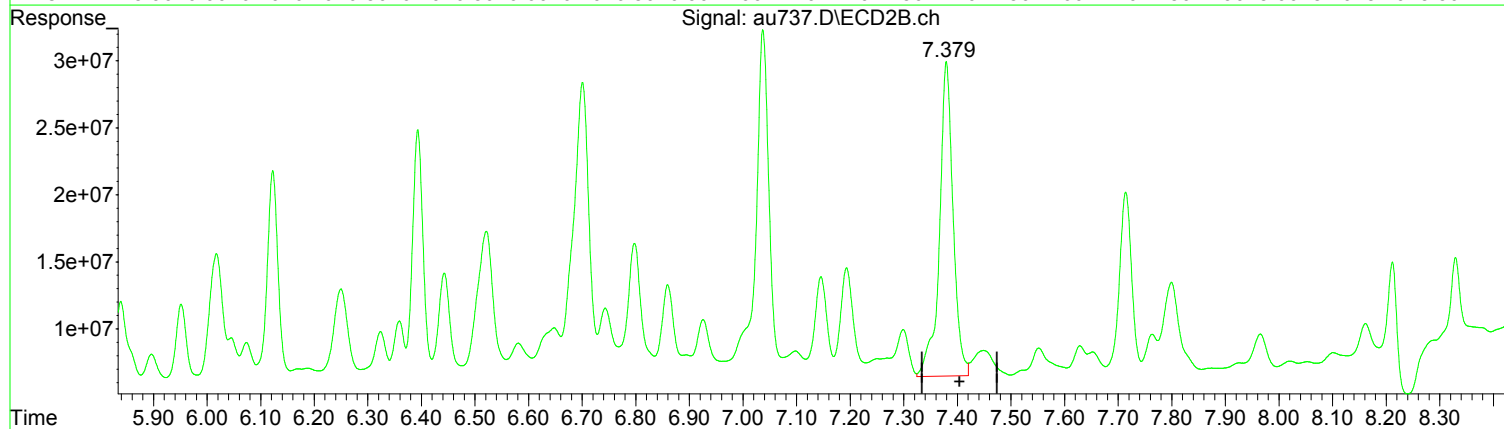
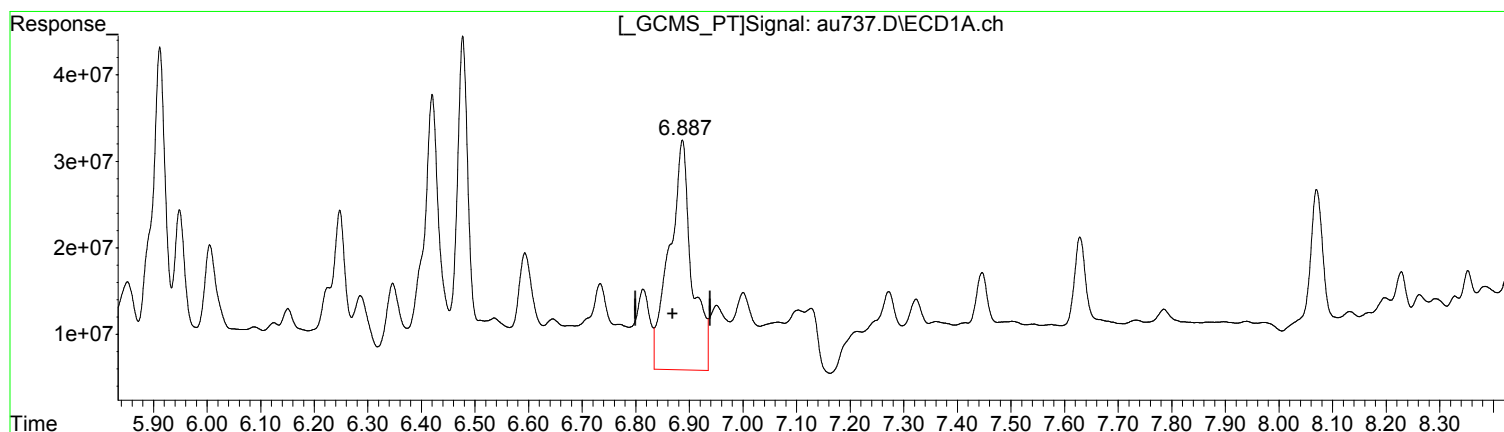
(24) Endrin Keton #2 (tc)  
7.379min 25.752 ug/l m  
response 392160245

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(24) Endrin Keton (tc)  
6.887min 39.587 ug/l  
response 771996076

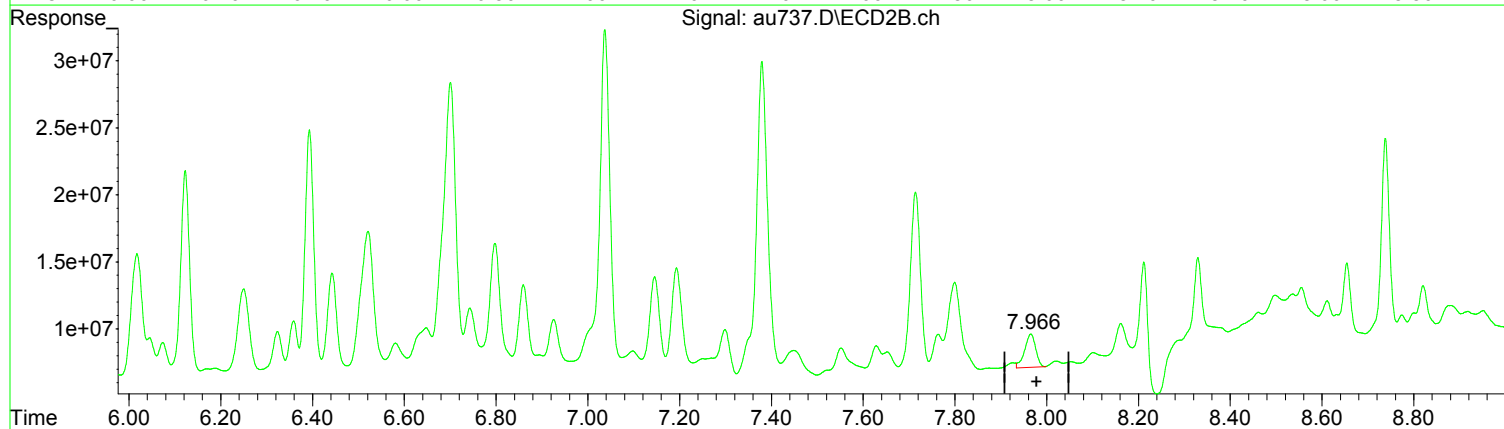
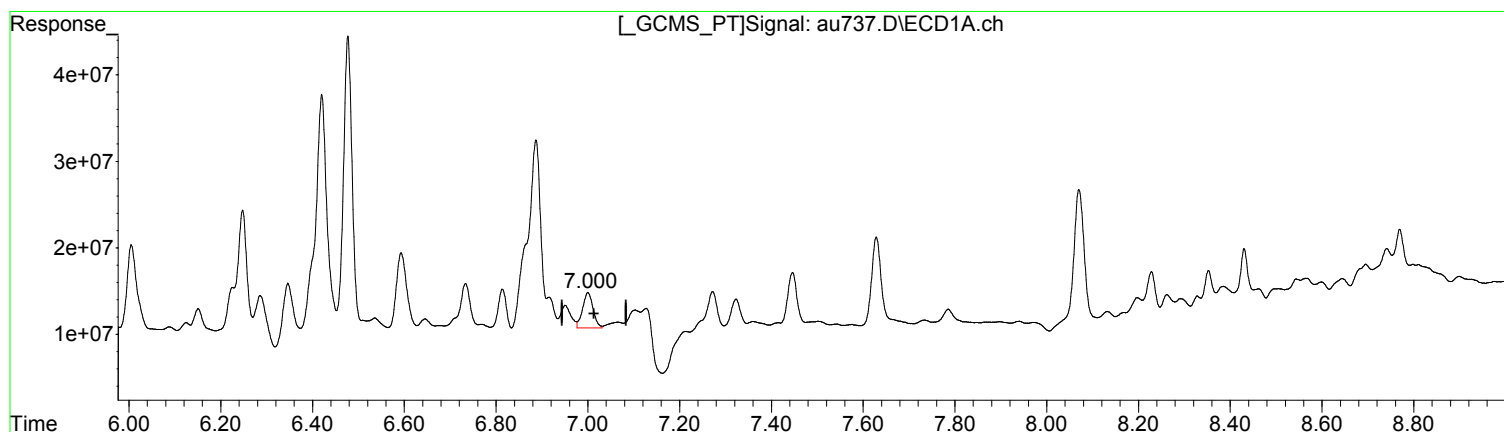
(24) Endrin Keton #2 (tc)  
7.380min 27.335 ug/l  
response 416257258

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(25) Mirex (tc)  
7.000min 4.280 ug/l m  
response 64401866

(25) Mirex #2 (tc)  
7.966min 3.900 ug/l  
response 41314425

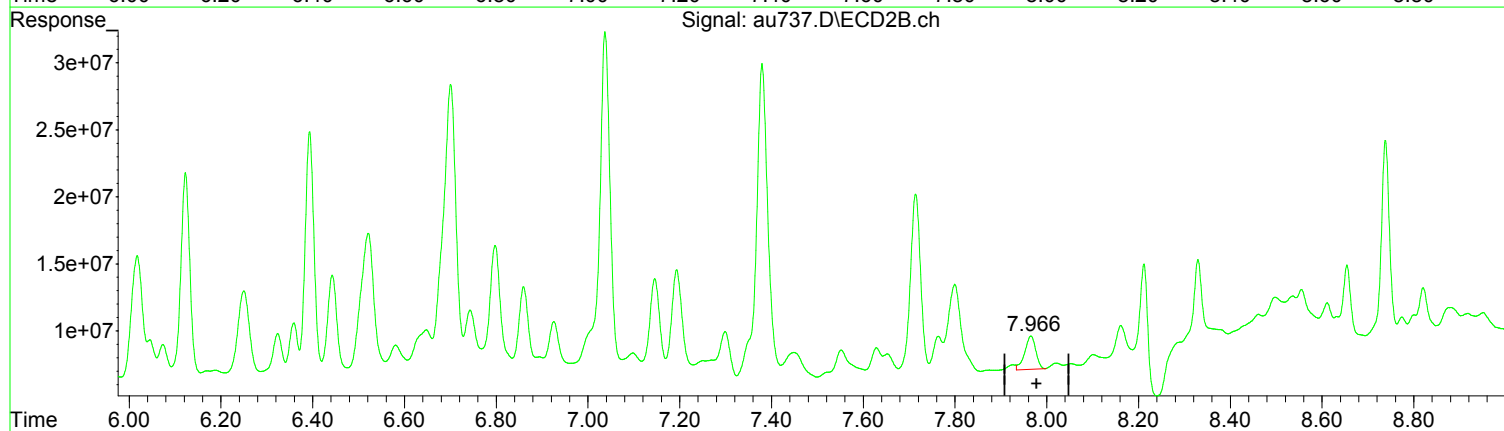
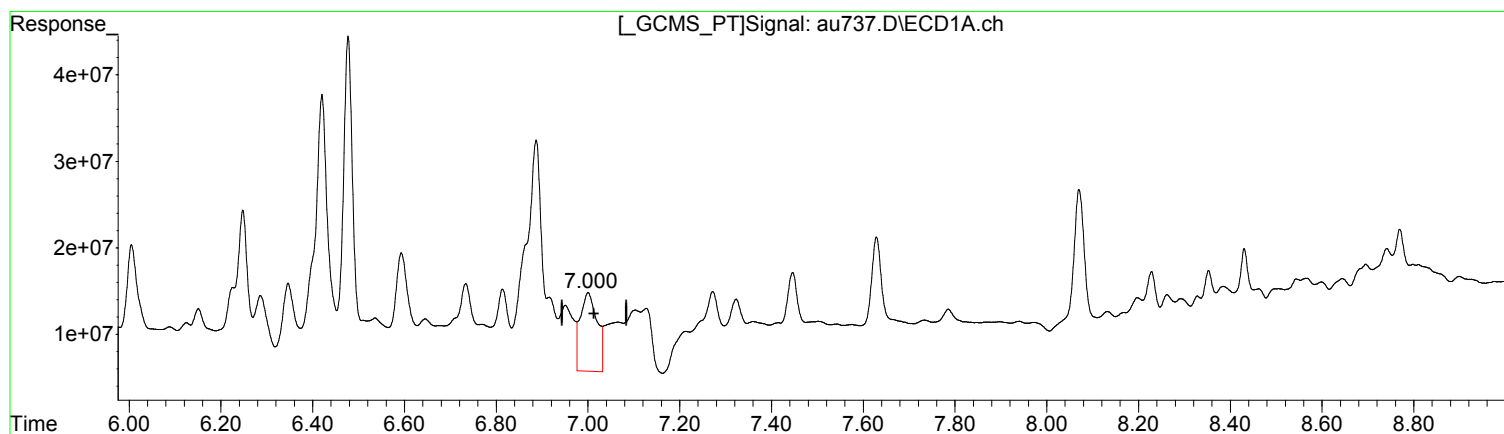
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(25) Mirex (tc)  
7.000min 15.488 ug/l  
response 233046776

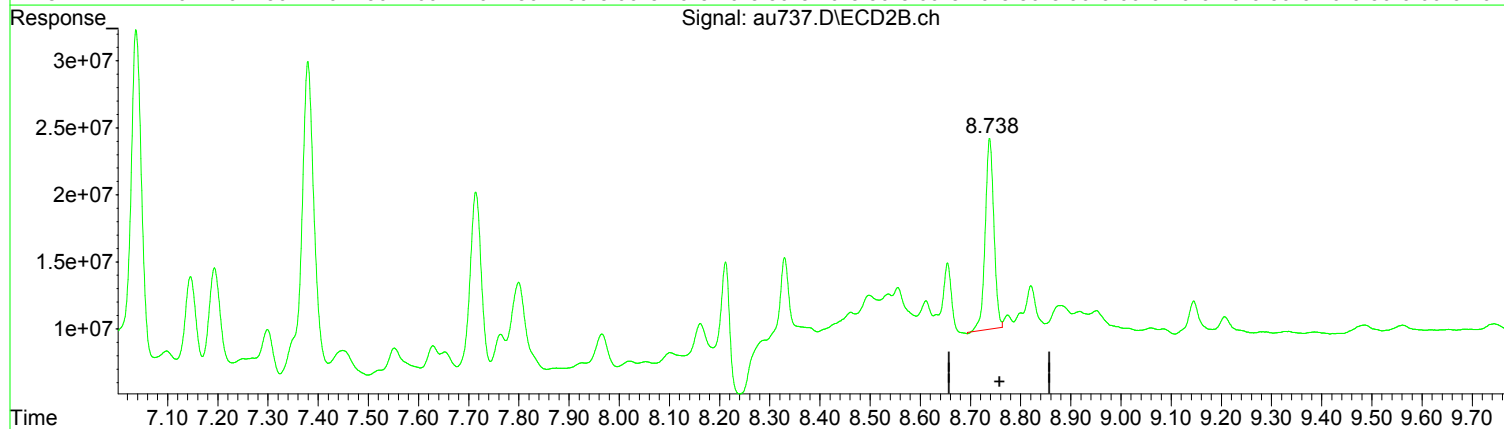
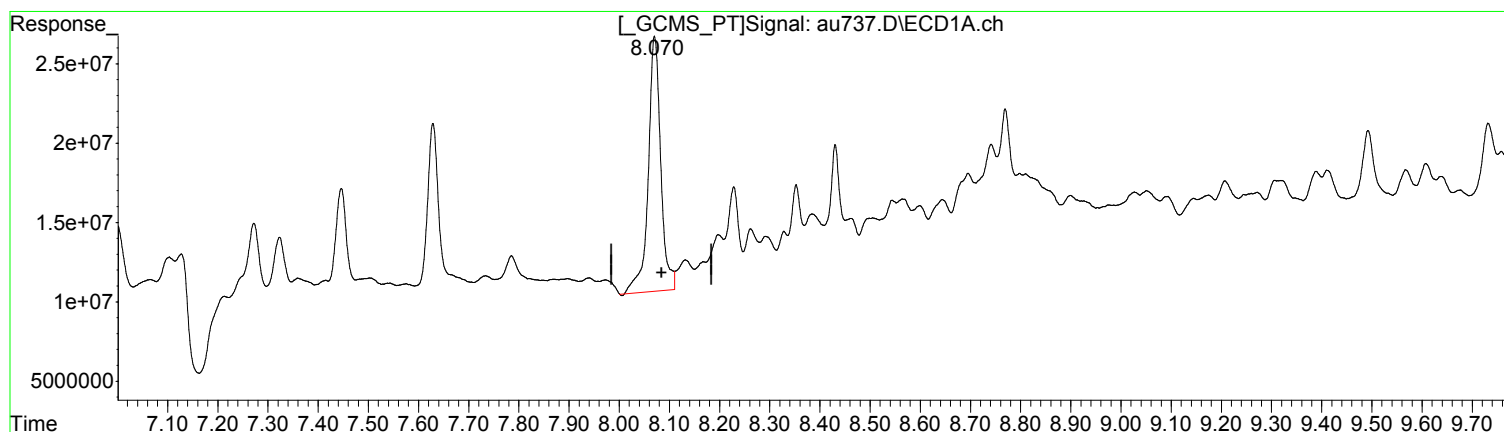
(25) Mirex #2 (tc)  
7.966min 3.900 ug/l  
response 41314425

Manual Integration:  
Before  
  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.070min 18.974 ug/l  
response 278977192

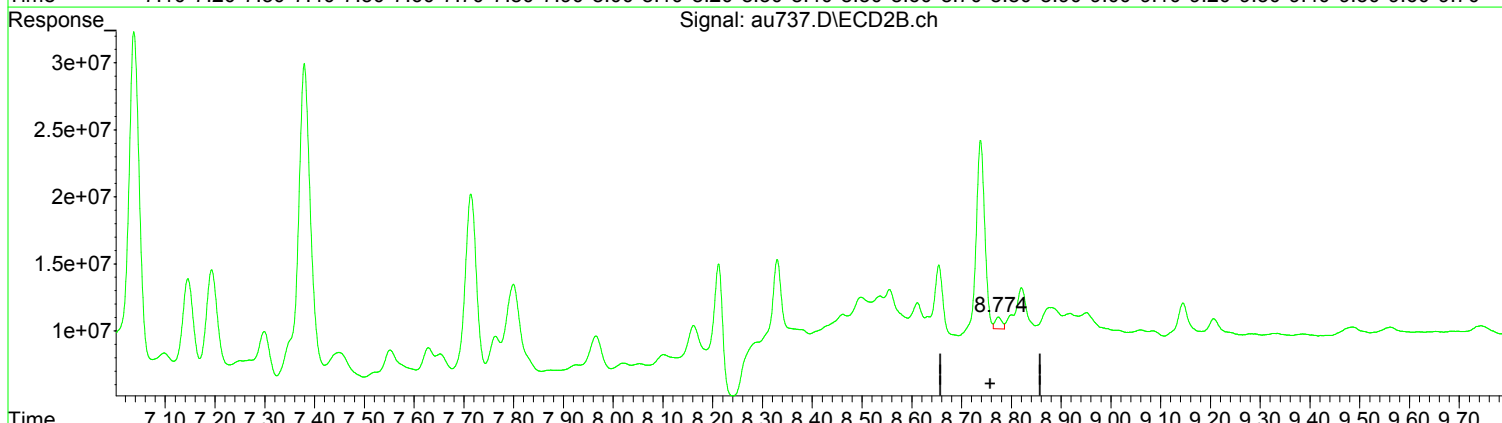
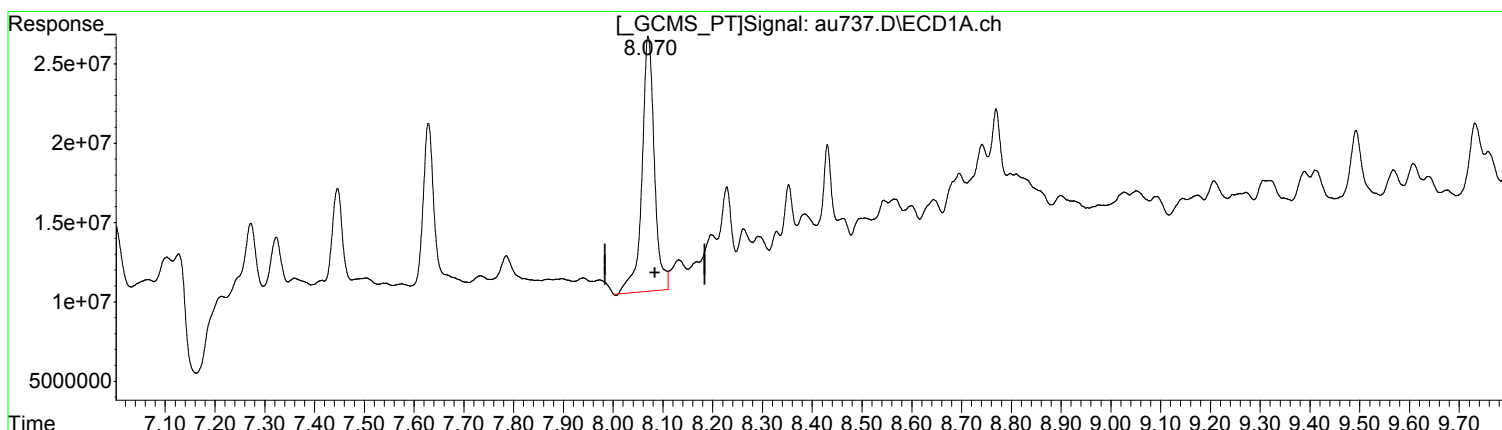
(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.738min 15.546 ug/l m  
response 171555230

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) SURR2,Decachlorobiphenyl (S)

8.070min 18.974 ug/l

response 278977192

Manual Integration:

Before

02/27/18

(26) SURR2,Decachlorobiphenyl #2 (S)

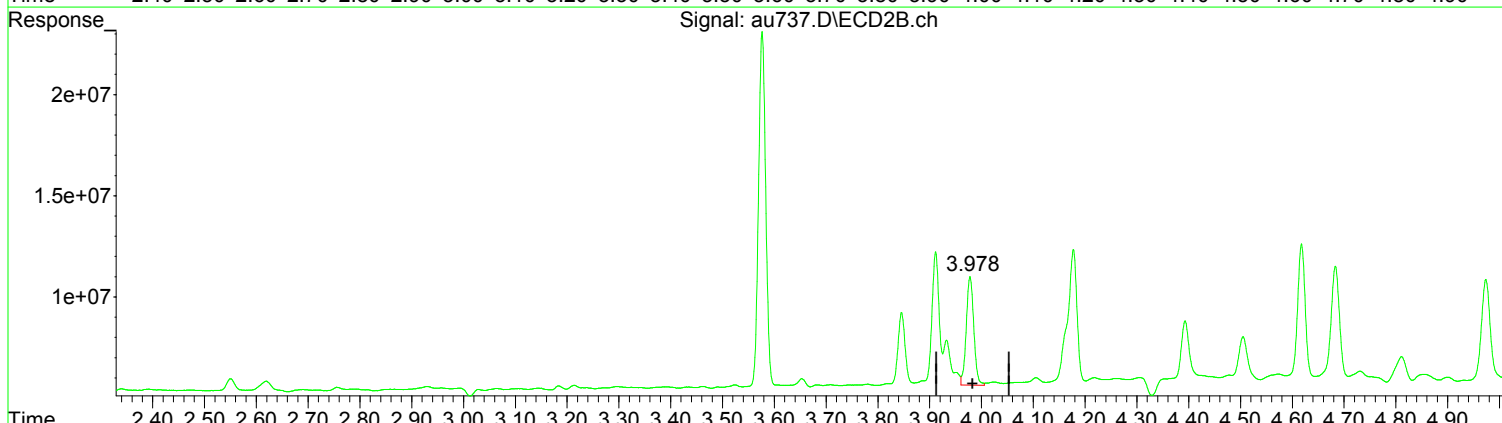
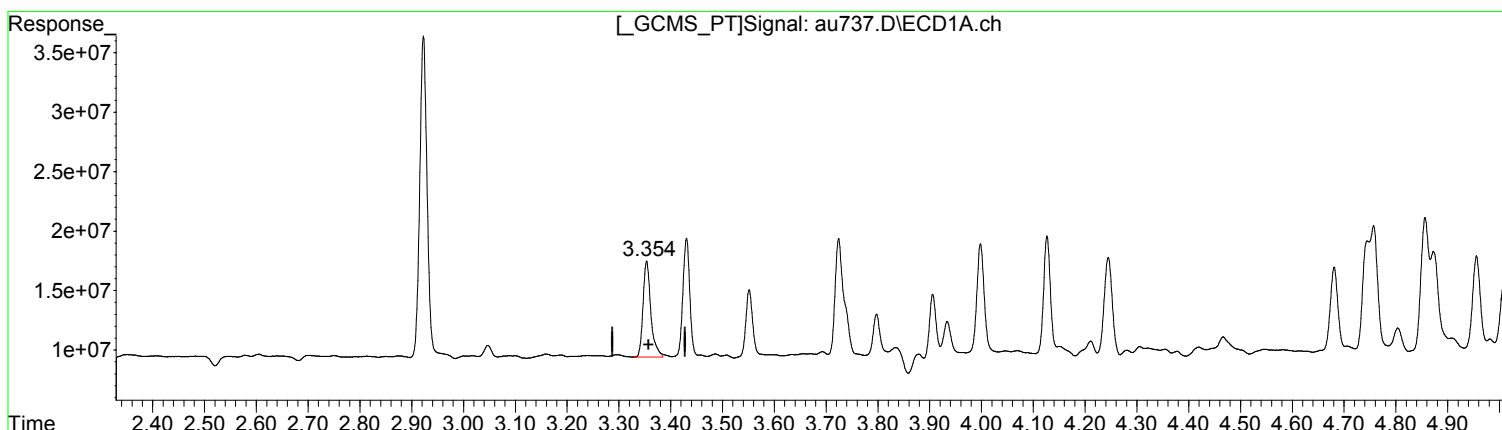
8.774min 0.770 ug/l

response 8495215

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(2) HEXACHLOROBENZENE (TC)  
3.354min 4.199 ug/l m  
response 84484280

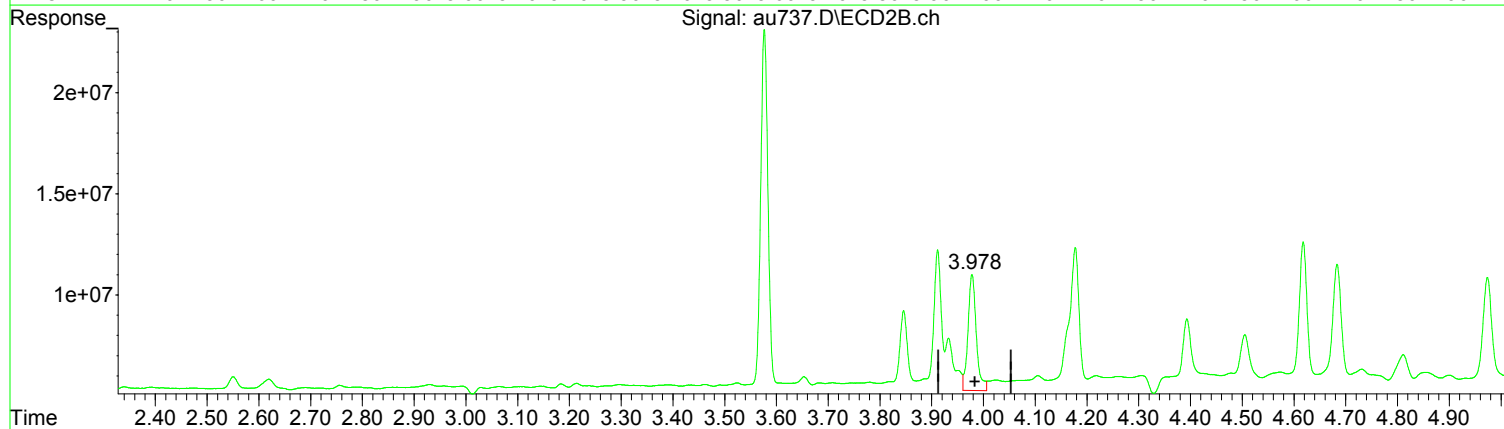
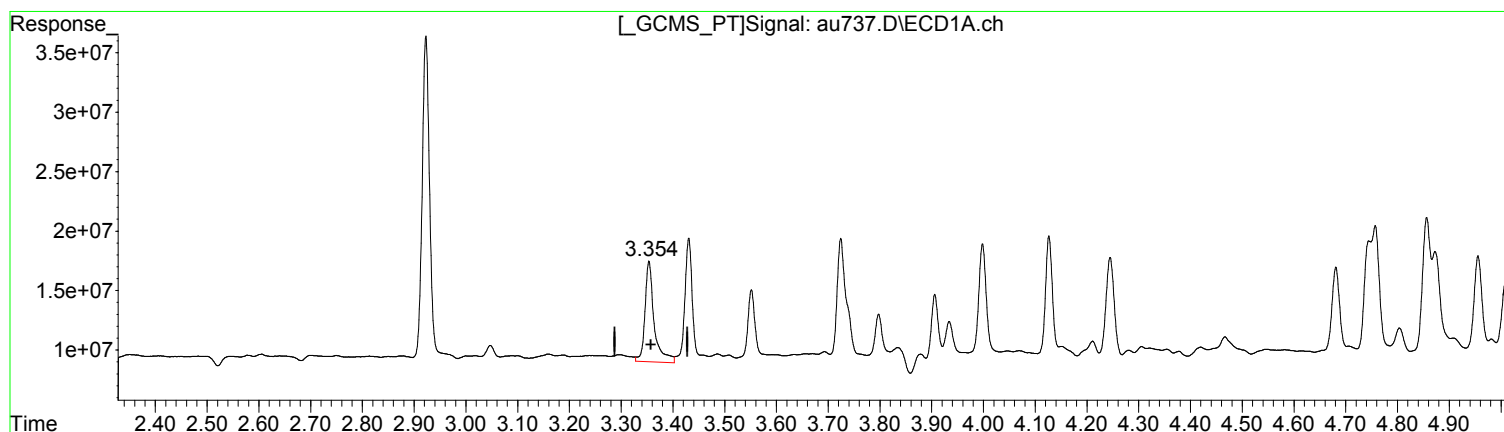
(2) HEXACHLOROBENZENE #2 (TC)  
3.978min 3.725 ug/l m  
response 54075473

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(2) HEXACHLOROBENZENE (TC)

3.354min 5.167 ug/l  
response 103951037

(2) HEXACHLOROBENZENE #2 (TC)

3.978min 4.409 ug/l  
response 64011116

Manual Integration:

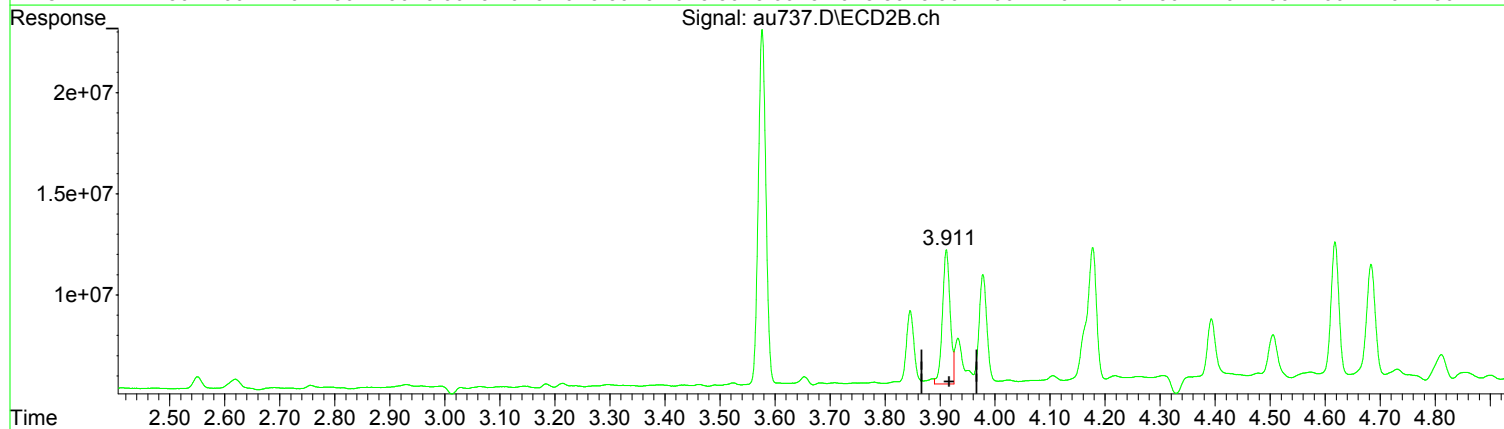
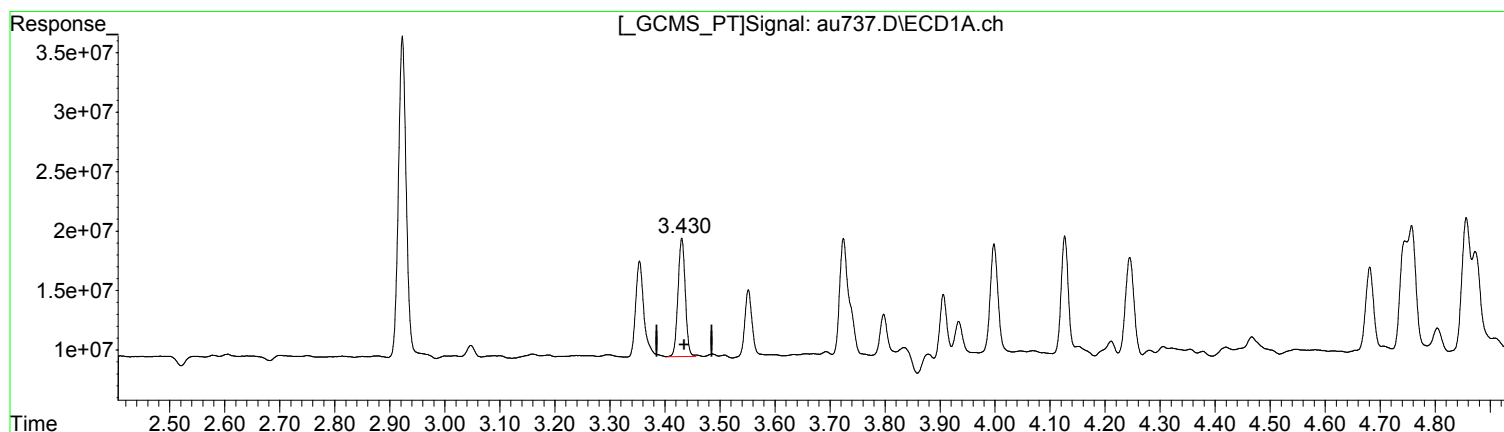
Before

02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(3) alpha-BHC (tc)  
3.430min 2.892 ug/l m  
response 91283085

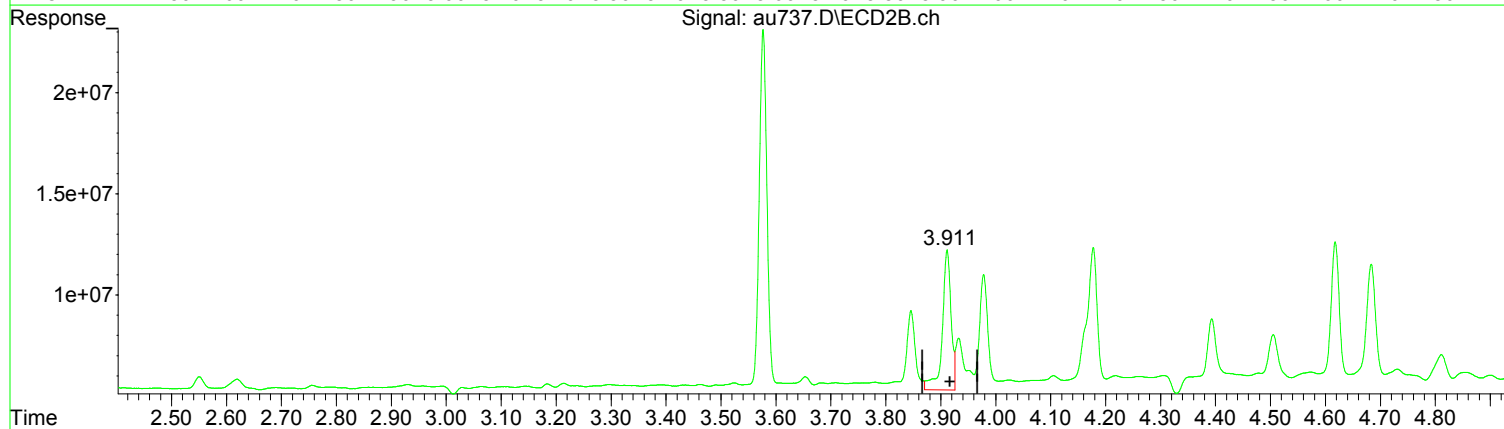
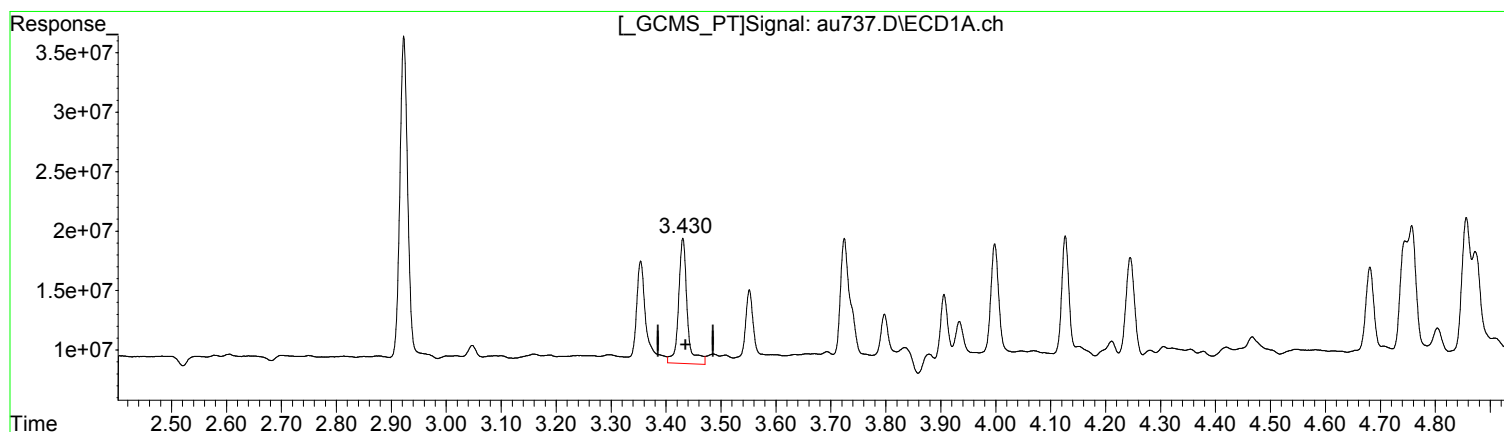
(3) alpha-BHC #2 (tc)  
3.911min 3.005 ug/l m  
response 64740511

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(3) alpha-BHC (tc)  
3.431min 3.673 ug/l  
response 115938151

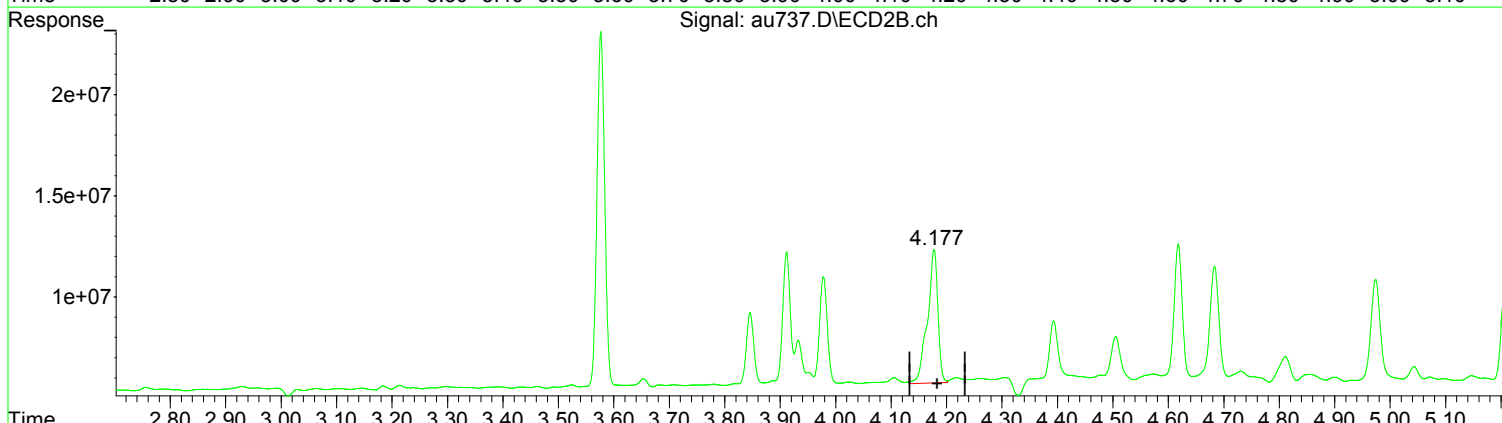
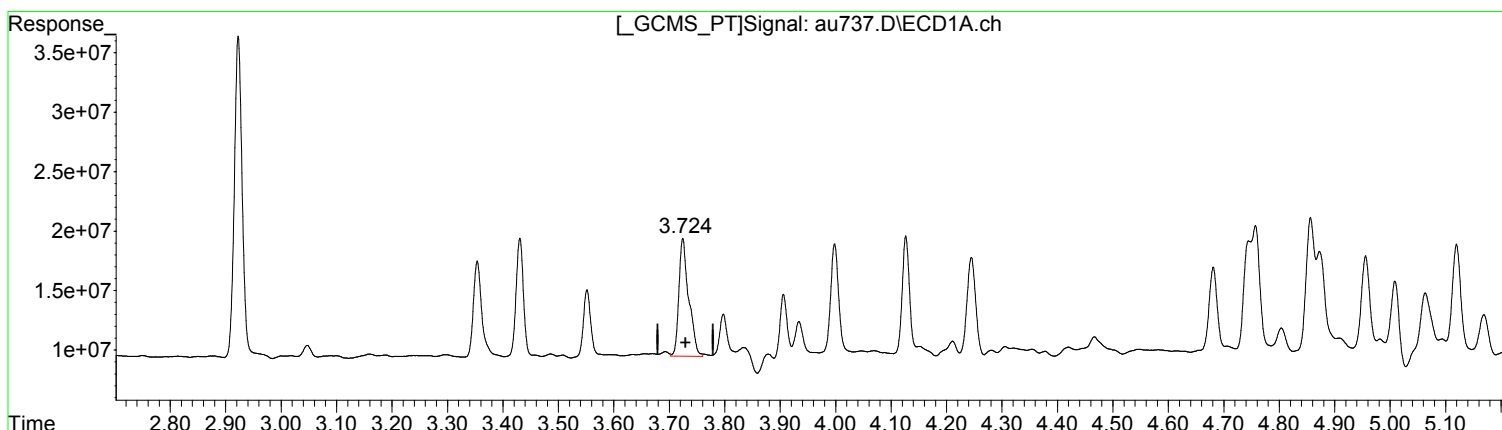
(3) alpha-BHC #2 (tc)  
3.912min 3.538 ug/l  
response 76221515

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.724min 4.459 ug/l m  
response 121666891

(4) gamma-BHC (L #2 (tcm)  
4.177min 4.410 ug/l m  
response 86140829

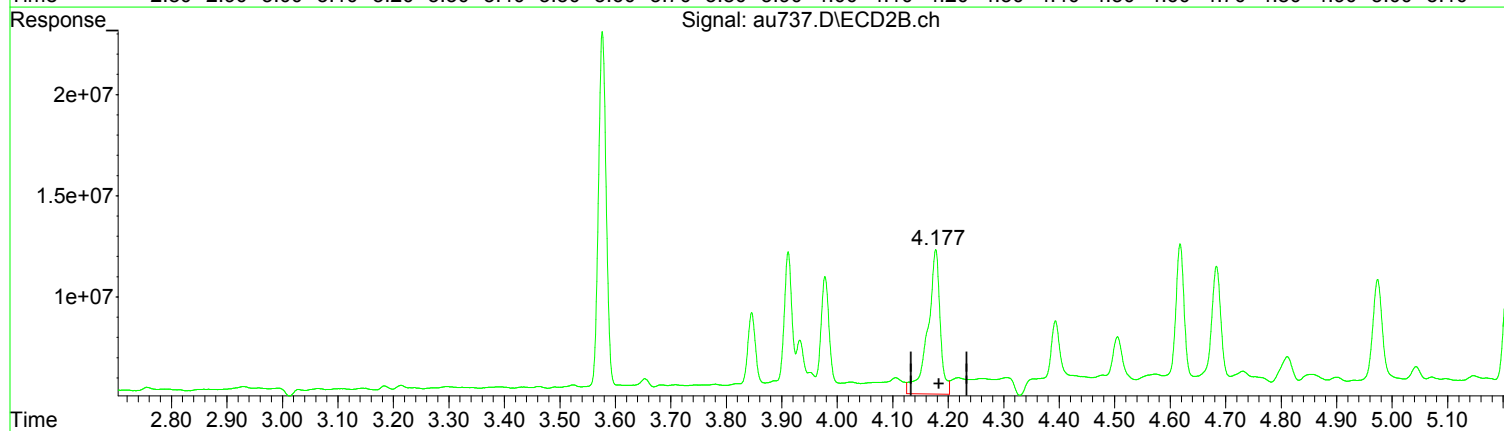
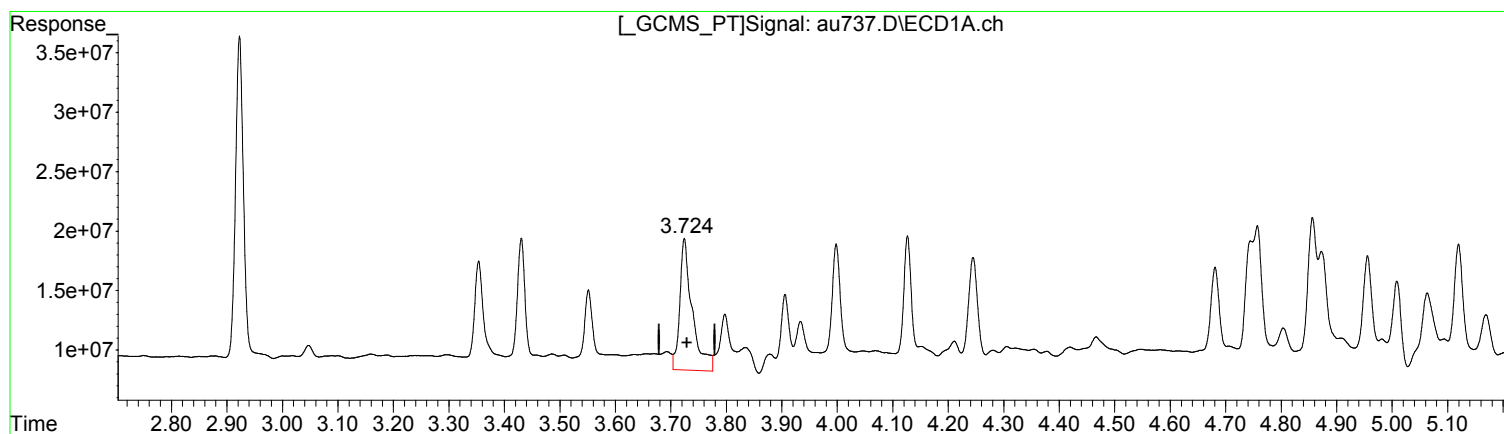
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.725min 6.370 ug/l  
response 173802860

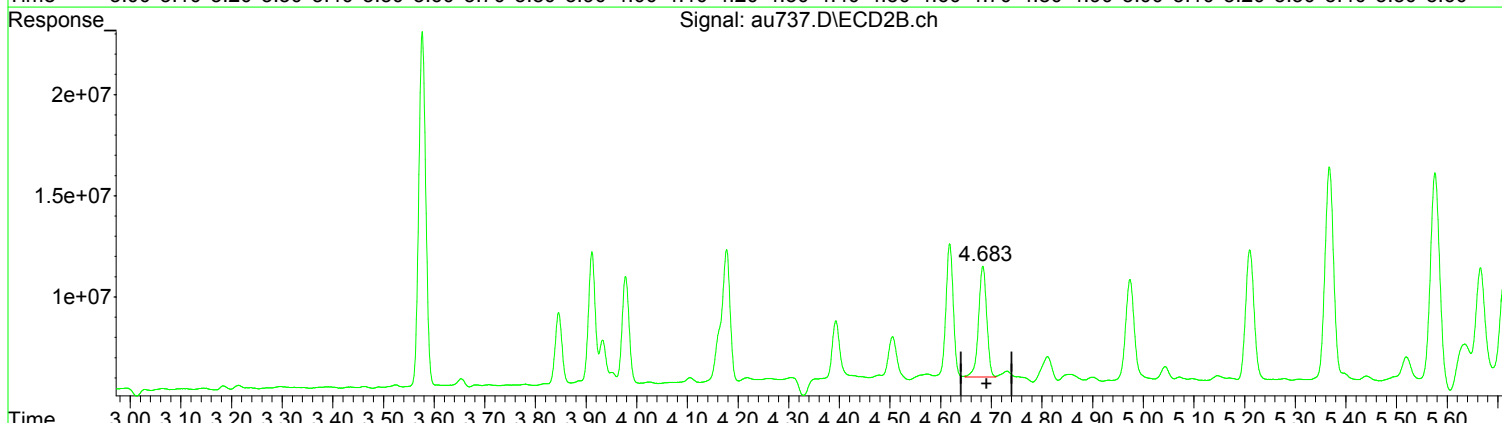
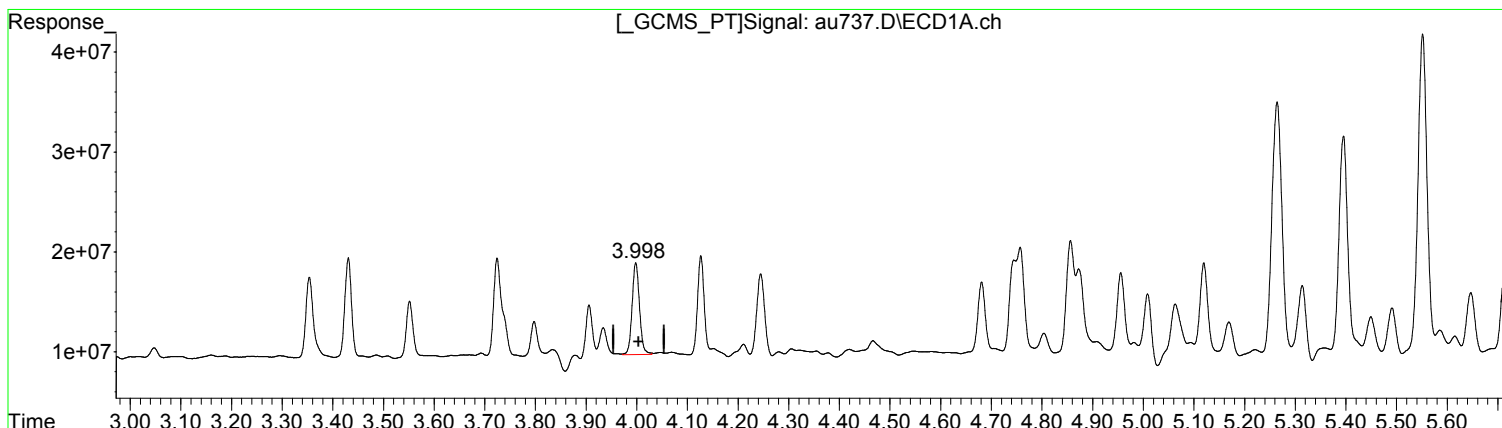
(4) gamma-BHC (L #2 (tcm)  
4.178min 5.697 ug/l  
response 111285715

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)  
3.998min 3.522 ug/l m  
response 92429407

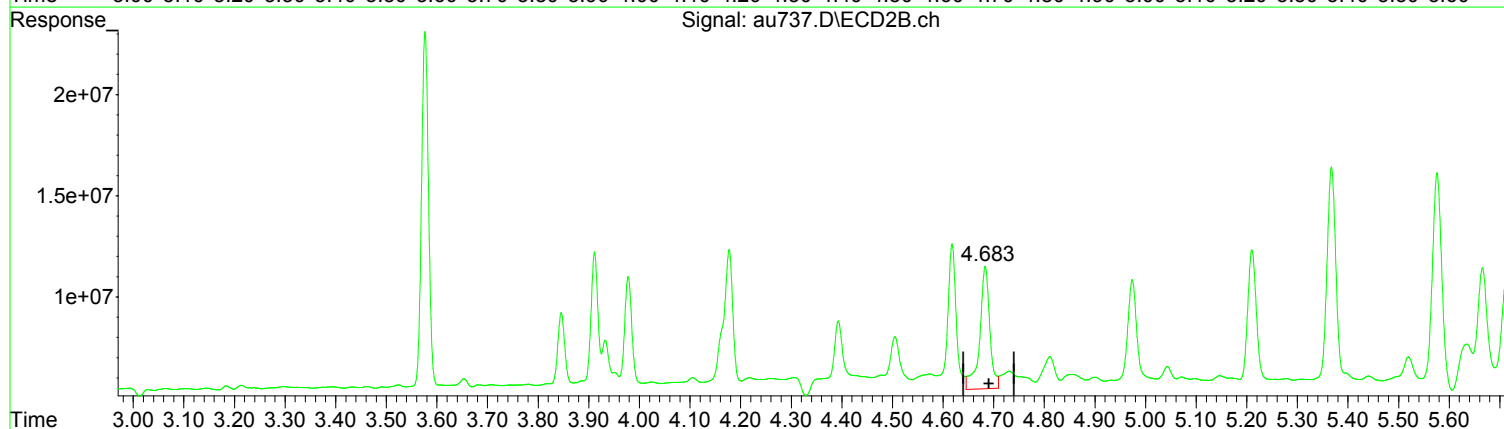
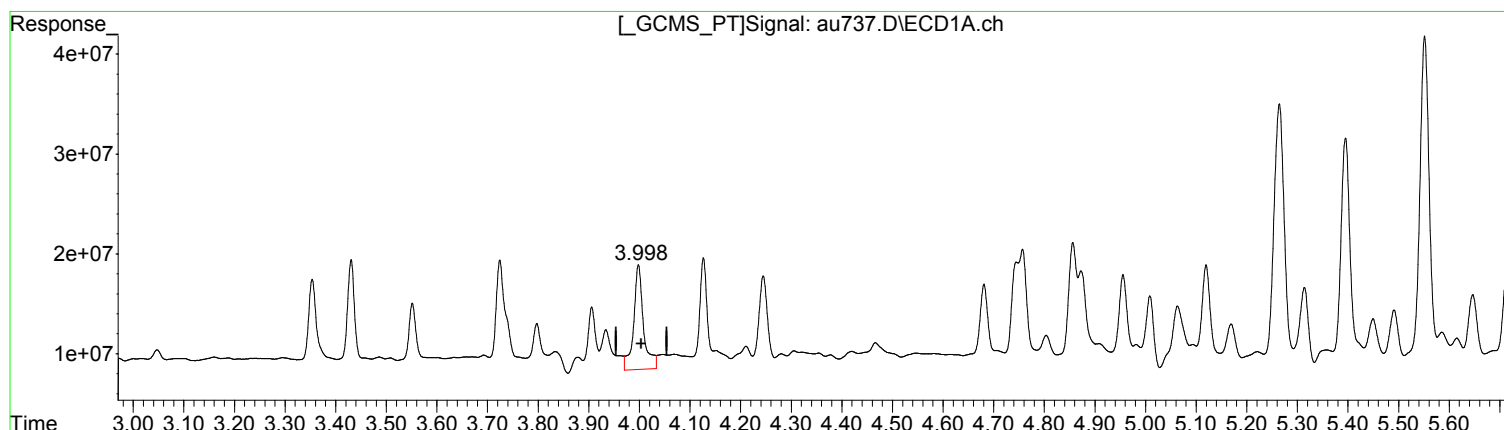
(5) Heptachlor #2 (tcm)  
4.683min 3.224 ug/l m  
response 61805617

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)  
3.998min 5.396 ug/l  
response 141584423

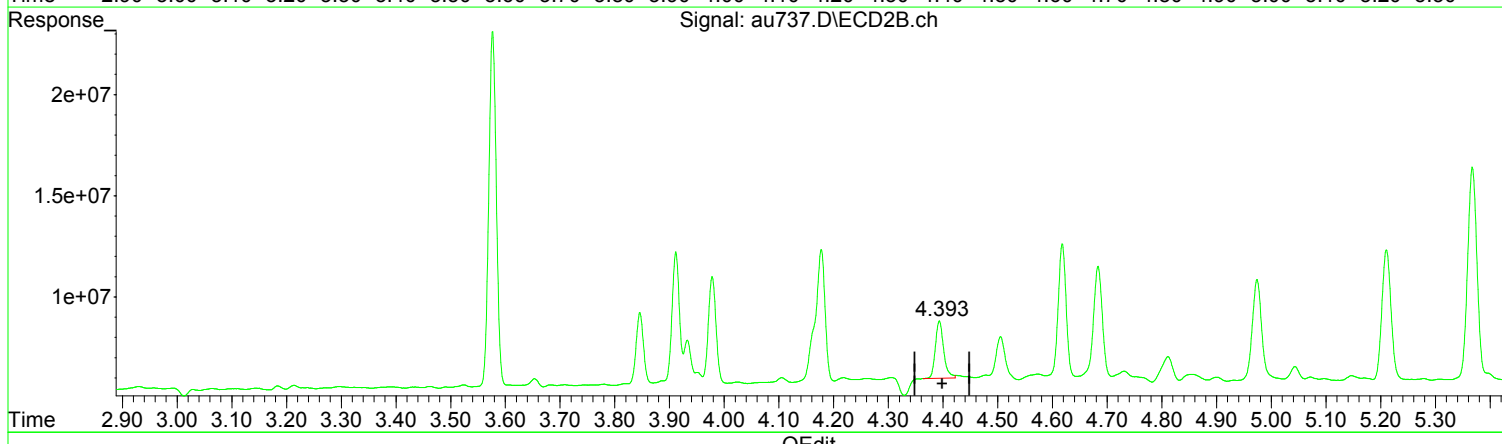
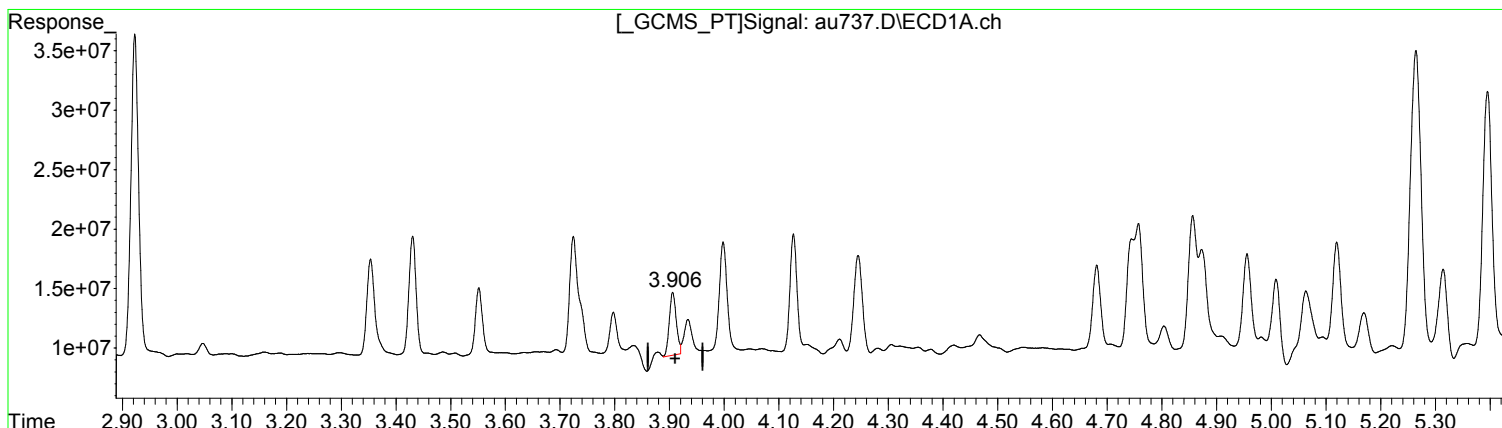
(5) Heptachlor #2 (tcm)  
4.684min 4.389 ug/l  
response 84146065

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.906min 3.597 ug/l m  
response 46641368

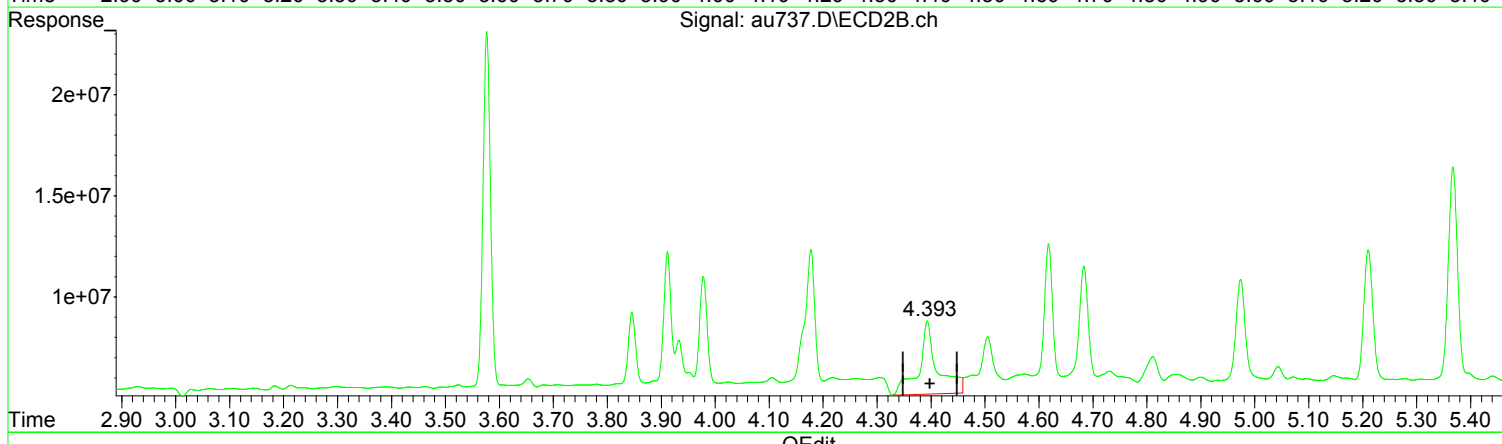
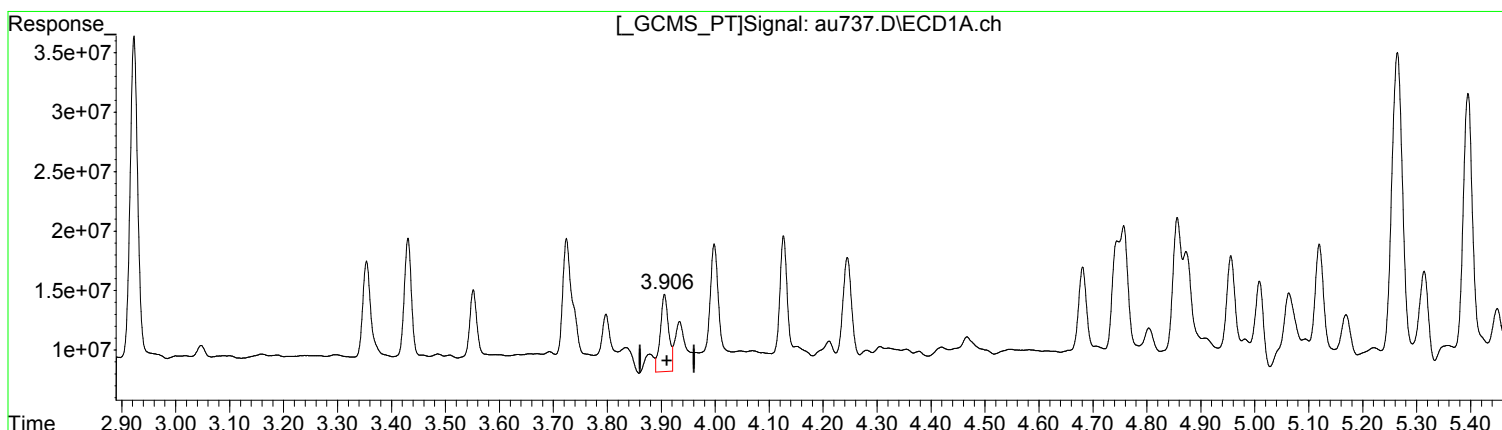
(7) beta-BHC #2 (tc)  
4.393min 3.260 ug/l m  
response 29988041

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.906min 5.349 ug/l  
response 69363265

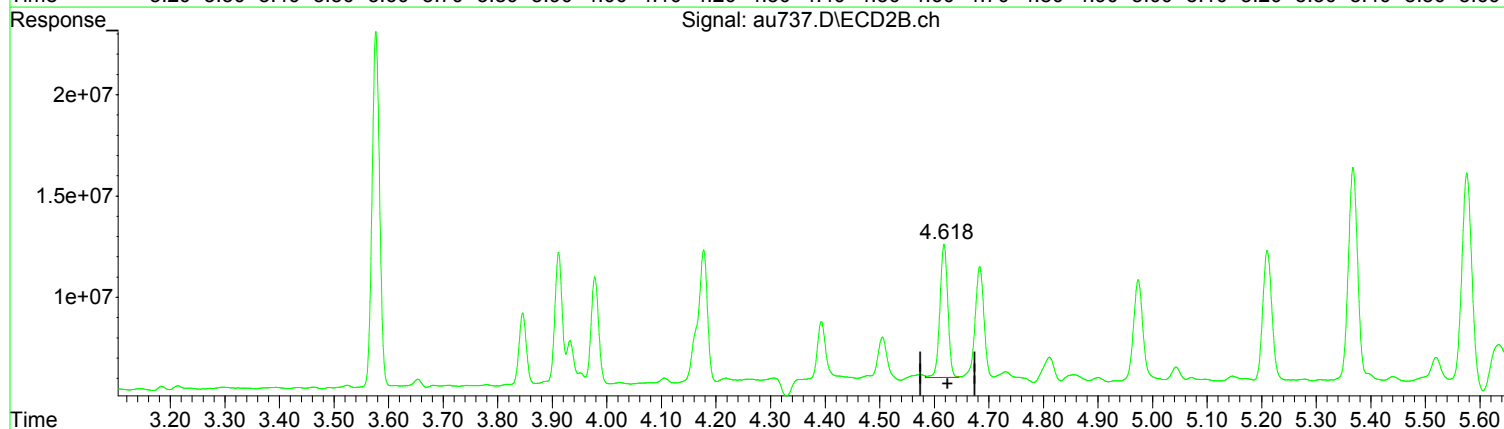
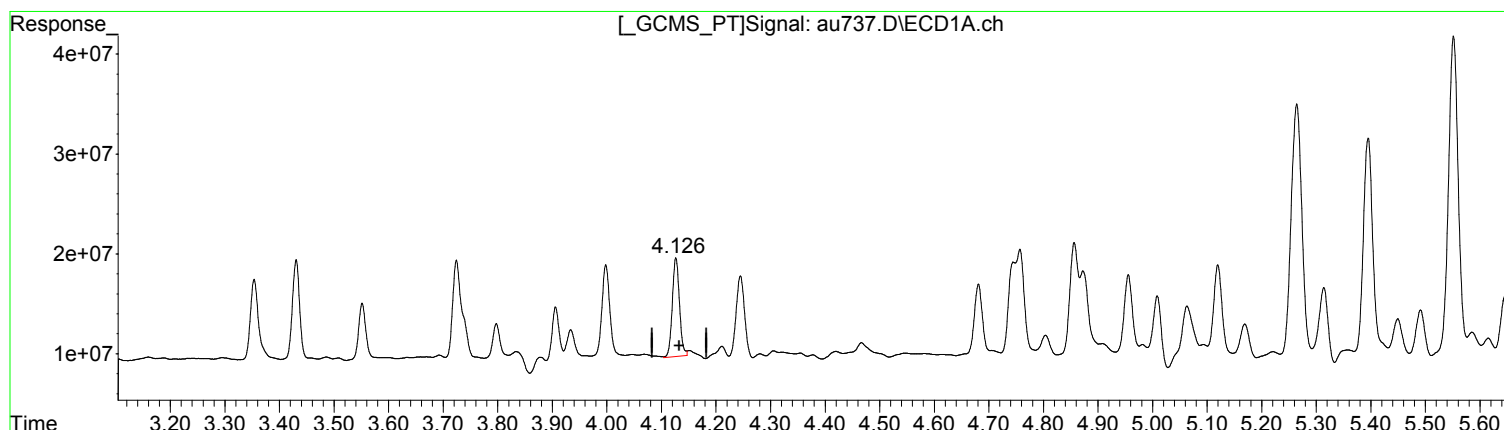
(7) beta-BHC #2 (tc)  
4.393min 9.489 ug/l  
response 87301330

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)  
4.126min 3.427 ug/l m  
response 90357058

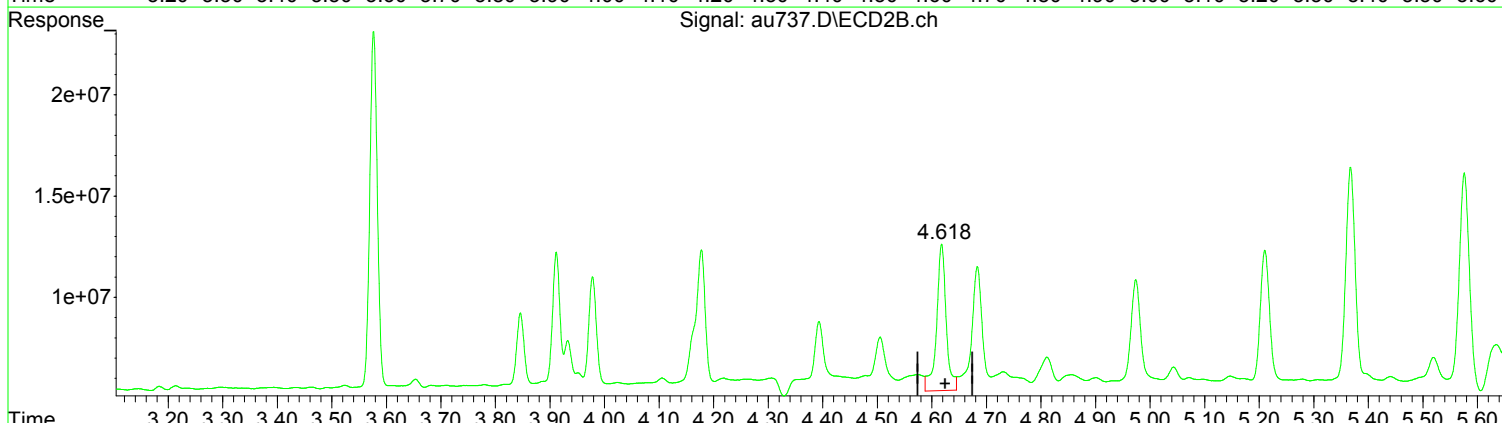
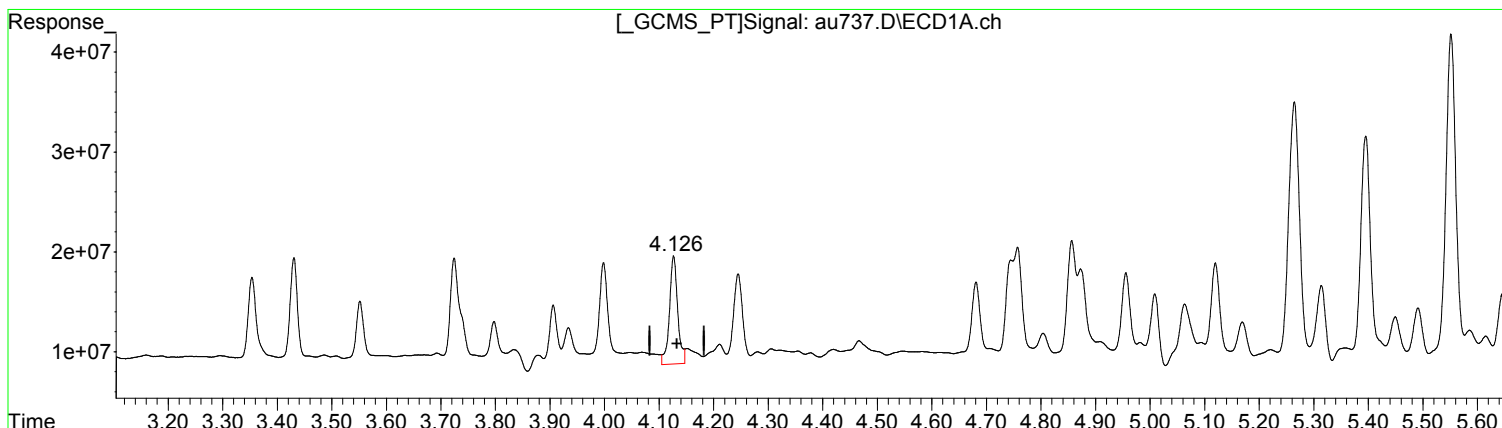
(8) delta-BHC #2 (tc)  
4.618min 3.396 ug/l m  
response 66351233

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)  
4.127min 4.324 ug/l  
response 114018603

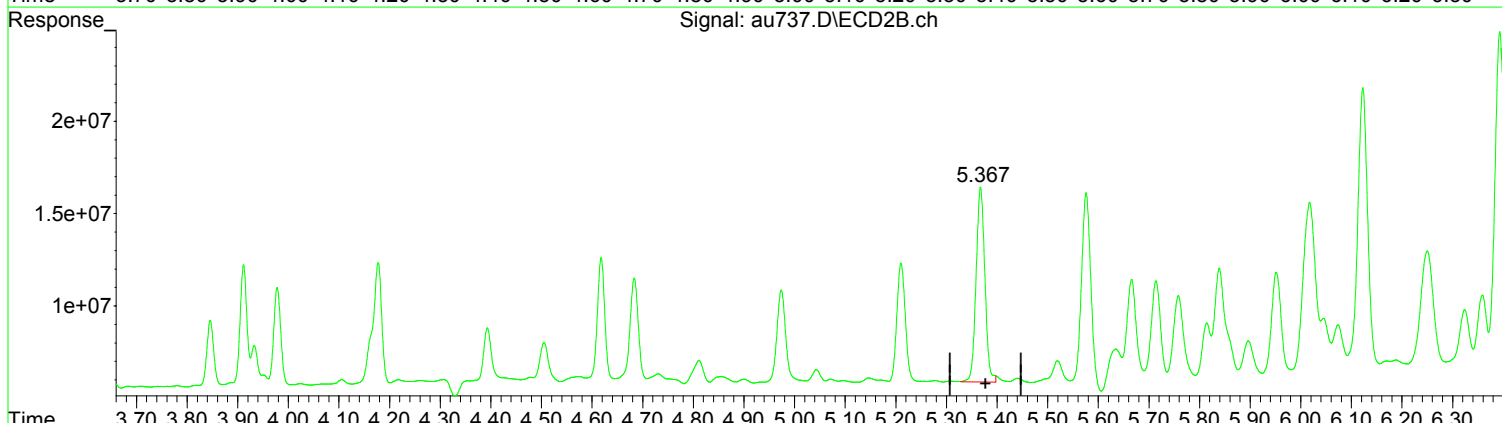
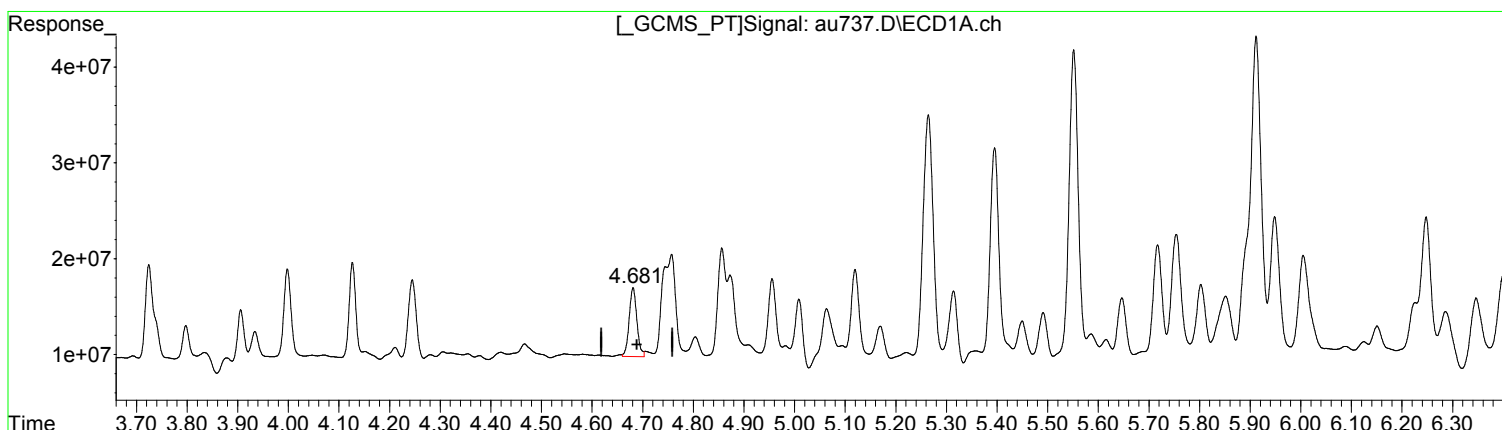
(8) delta-BHC #2 (tc)  
4.618min 4.535 ug/l  
response 88610880

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rql801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)  
4.681min 3.488 ug/l m  
response 76269714

(9) Heptachlor E #2 (tc)  
5.367min 7.711 ug/l m  
response 127287136

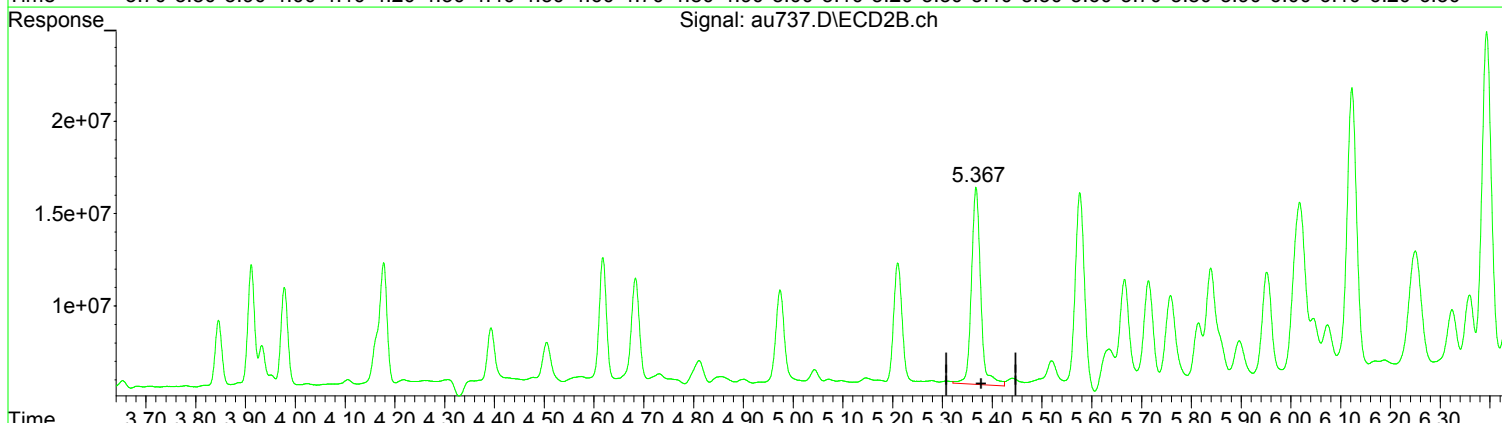
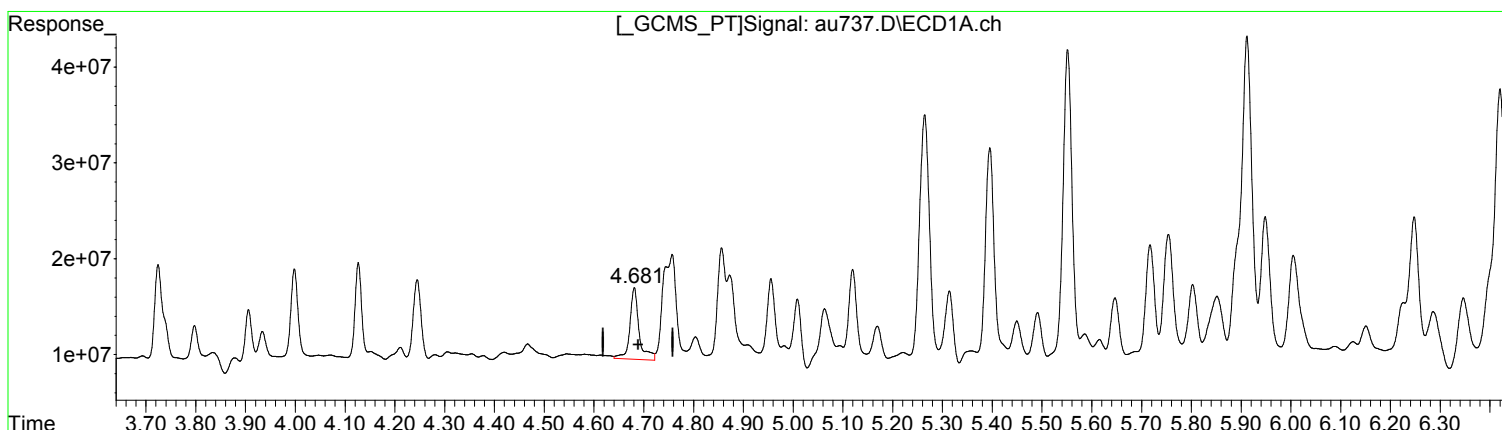
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rq1801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)  
4.681min 4.387 ug/l  
response 95928374

(9) Heptachlor E #2 (tc)  
5.368min 8.369 ug/l  
response 138140957

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au737.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 7:53 pm  
 Operator : m.pedro  
 Sample : rq1801536-04|5.0  
 Misc : 308673  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 09:03:42 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

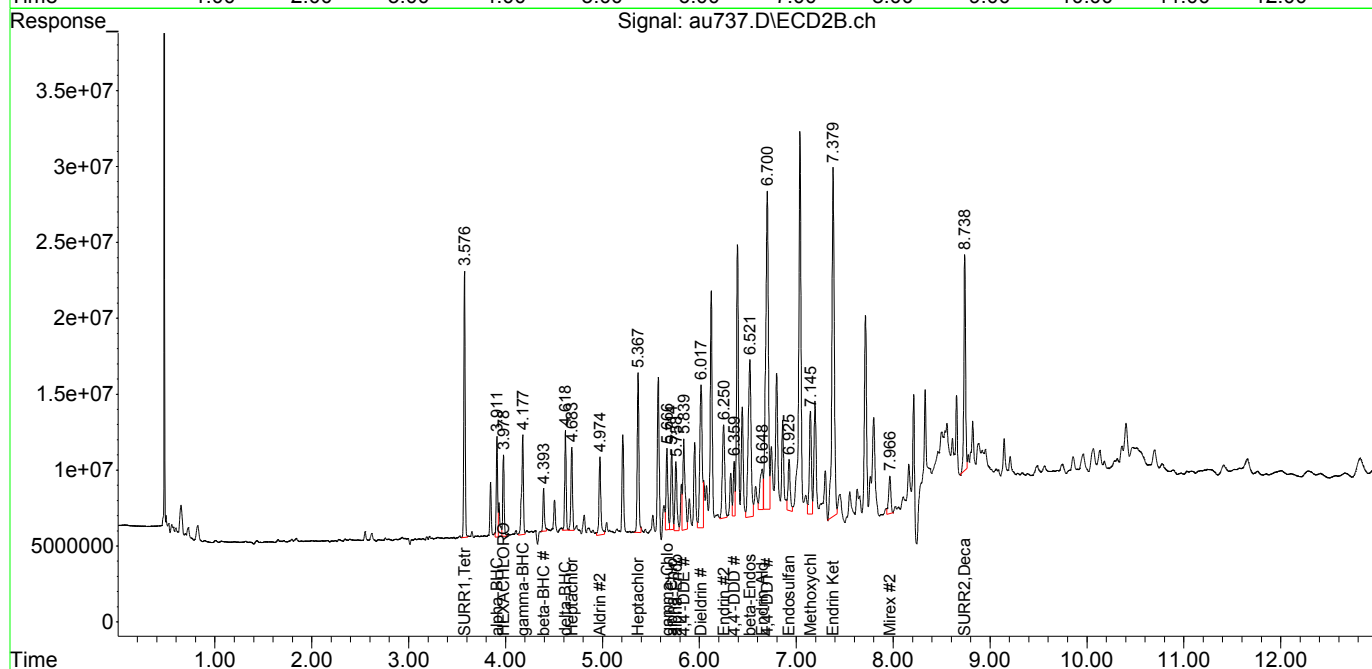
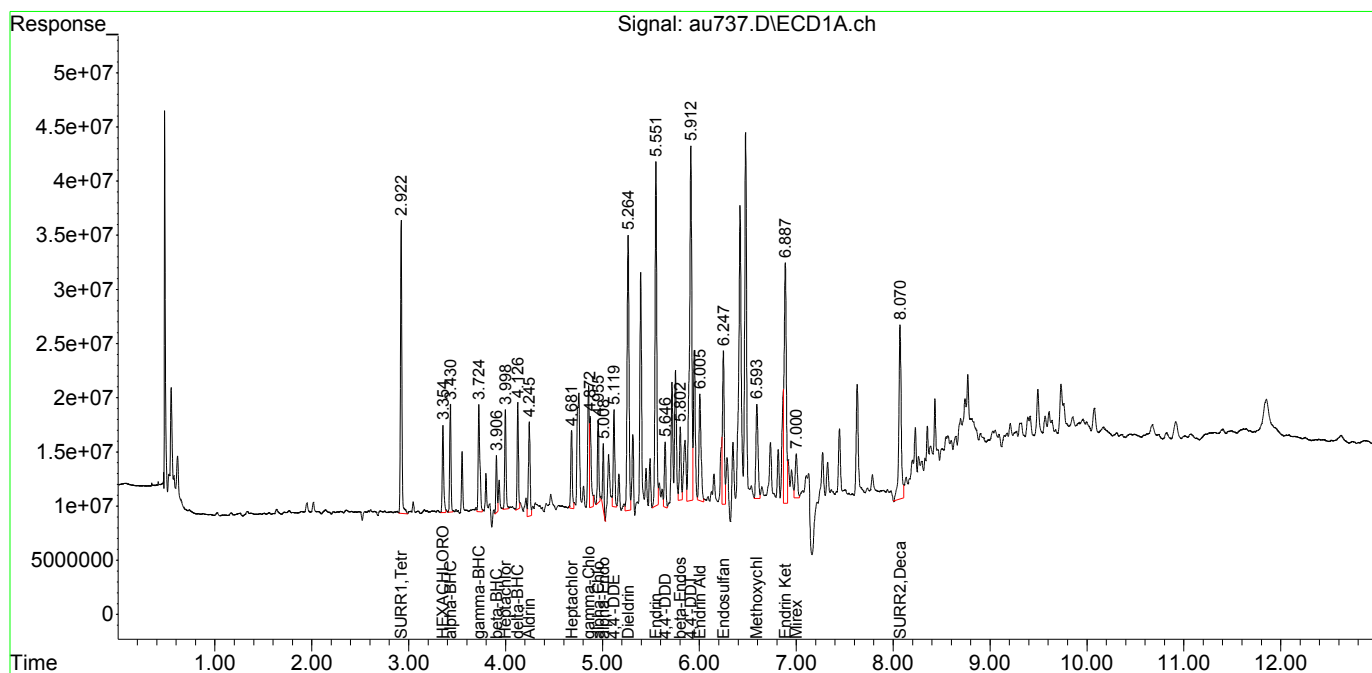
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.576	272.9E6	169.1E6	11.709	10.965m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	11.71%#	10.97%#
26) S SURR2,Dec...	8.070	8.738	279.0E6	171.6E6	18.974	15.546m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	18.97%#	15.55%#
Target Compounds						
2) TC HEXACHLOR...	3.354	3.978	84484280	54075473	4.199m	3.725m
3) tc alpha-BHC	3.430	3.911	91283085	64740511	2.892m	3.005m
4) tcm gamma-BHC (L	3.724	4.177	121.7E6	86140829	4.459m	4.410m
5) tcm Heptachlor	3.998	4.683	92429407	61805617	3.522m	3.224m
6) tcm Aldrin	4.245	4.974	101.7E6	68246273	4.056	3.905
7) tc beta-BHC	3.906	4.393	46641368	29988041	3.597m	3.260m
8) tc delta-BHC	4.126	4.618	90357058	66351233	3.427m	3.396m
9) tc Heptachlor E	4.681	5.367	76269714	127.3E6	3.488m	7.711m#
10) tc alpha-Endosu	5.008	5.758	58540370	65053224	2.799m	4.404m#
11) tc gamma-Chlord	4.872	5.666	91847359	68384937	4.139m	4.156m
12) tc alpha-Chlord	4.955	5.714	77934888	67100533	3.660m	4.160m
13) tc 4,4'-DDE	5.119	5.839	96826482	98714898	4.634m	6.546m#
14) tcm Dieldrin	5.264	6.017	354.3E6	168.9E6	15.648m	10.435m#
15) tcm Endrin	5.551	6.250	398.5E6	106.2E6	20.200m	7.240m#
17) tc beta-Endosul	5.802	6.521	81299446	213.6E6	4.194m	14.916m#
18) tc 4,4'-DDD	5.646	6.359	69027667	41591805	3.708m	3.189m
19) tcm 4,4'-DDT	5.912	6.700	542.6E6	412.1E6	30.099m	30.126m
20) tc Endrin Aldeh	6.005	6.648	148.7E6	59712182	8.865m	5.208m#
21) tc Endosulfan S	6.247	6.925	175.0E6	52475142	9.673m	4.015m#
22) tc Methoxychlor	6.593	7.145	135.8E6	103.9E6	15.182m	14.000m
24) tc Endrin Keton	6.887	7.379	346.1E6	392.2E6	17.747m	25.752m#
25) tc Mirex	7.000	7.966	64401866	41314425	4.280m	3.900
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au737.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 7:53 pm  
Operator : m.pedro  
Sample : rql801536-04|5.0  
Misc : 308673  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:42 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

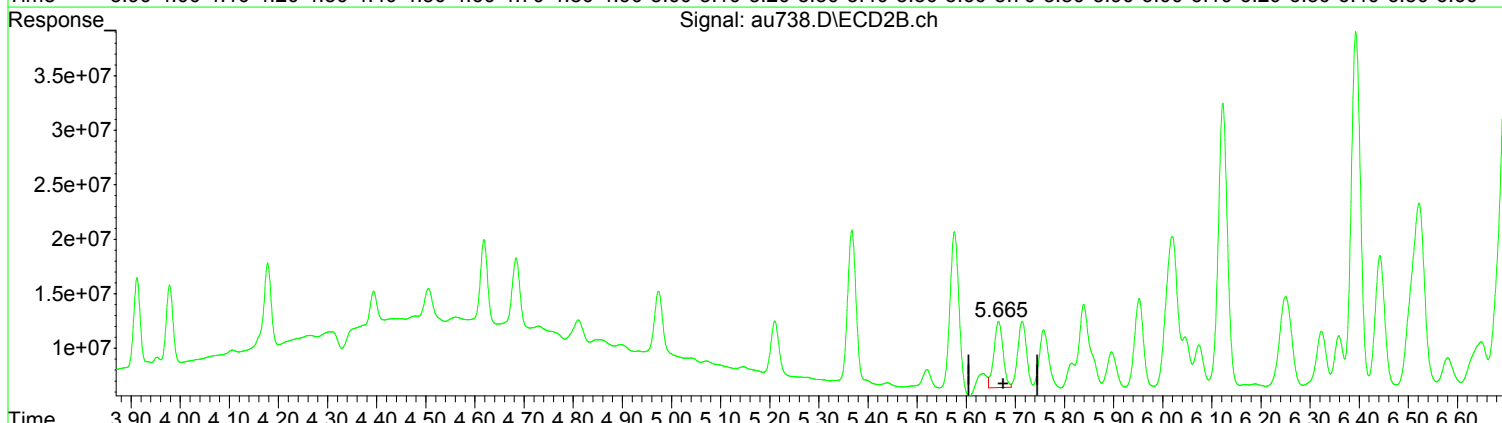
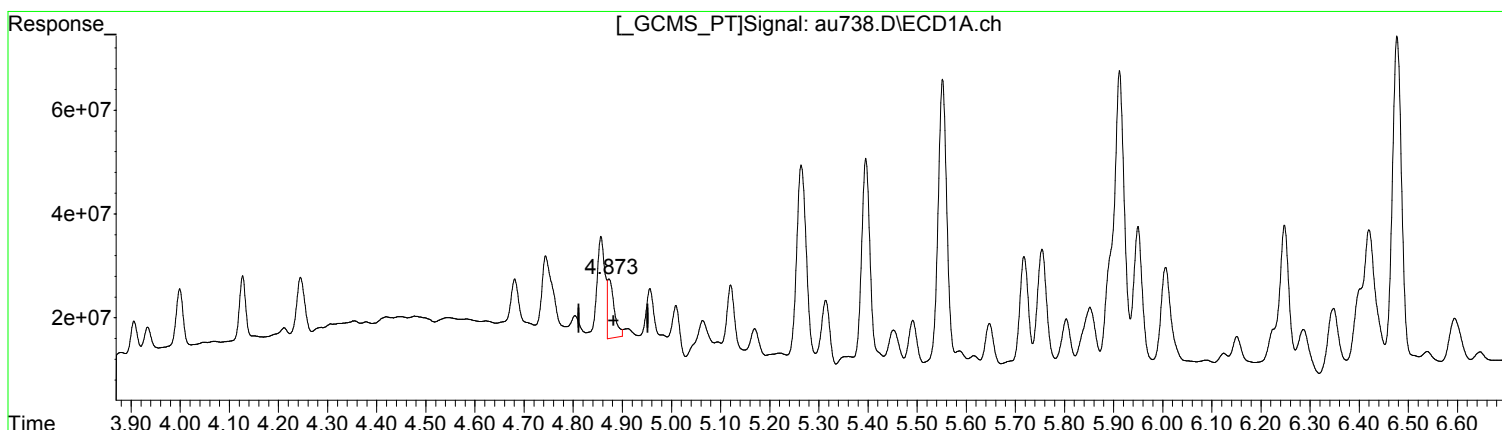
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(11) gamma-Chlord (tc)  
4.872min 4.823 ug/l m  
response 107022182

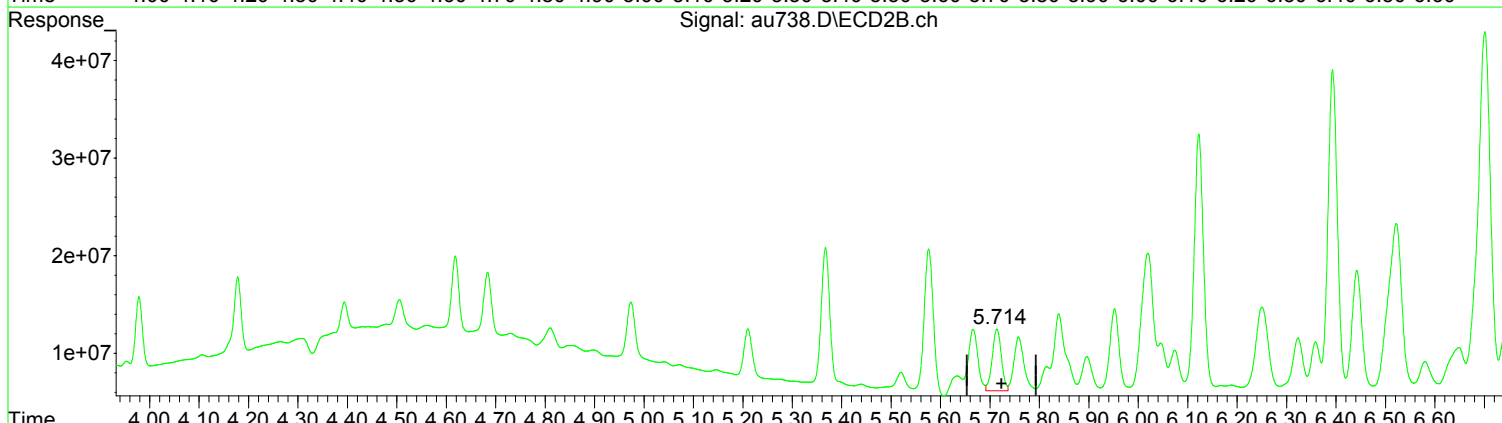
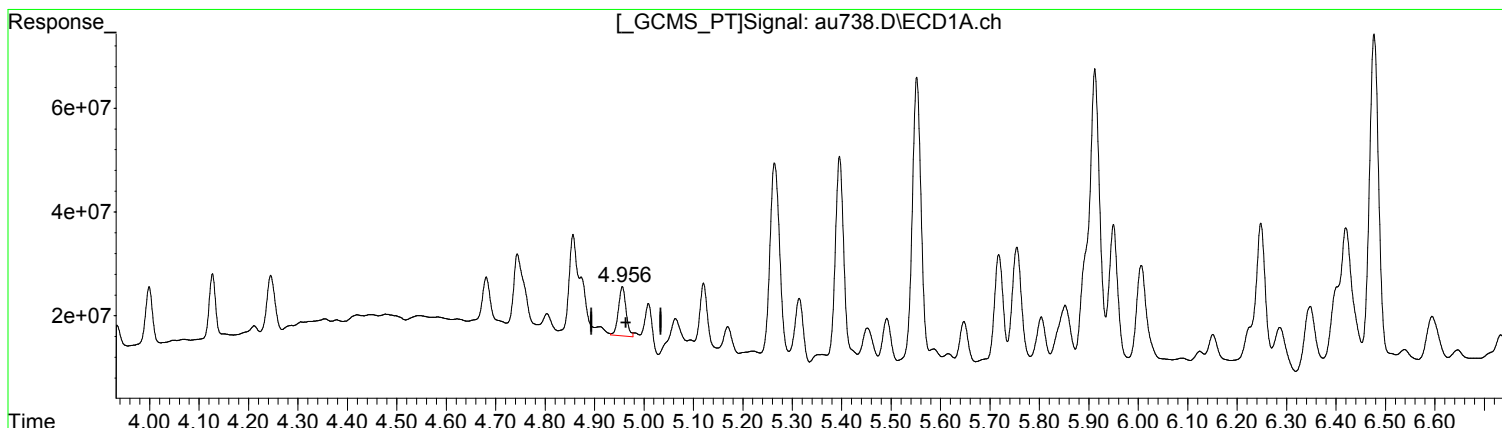
(11) gamma-Chlord #2 (tc)  
5.665min 4.776 ug/l m  
response 78592677

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
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Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(12) alpha-Chlord (tc)  
4.956min 4.784 ug/l m  
response 101873404

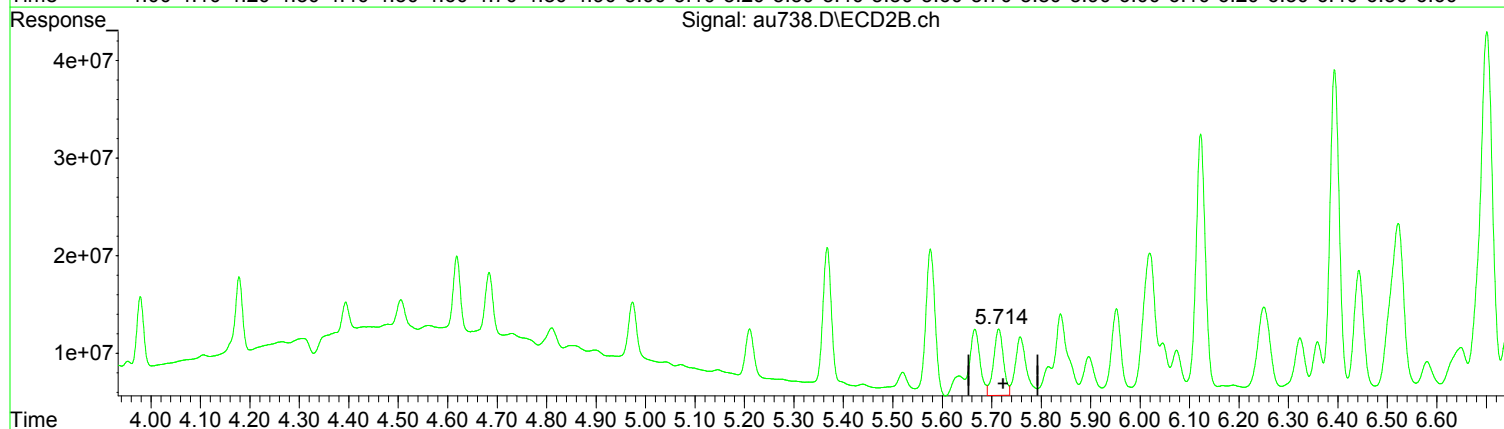
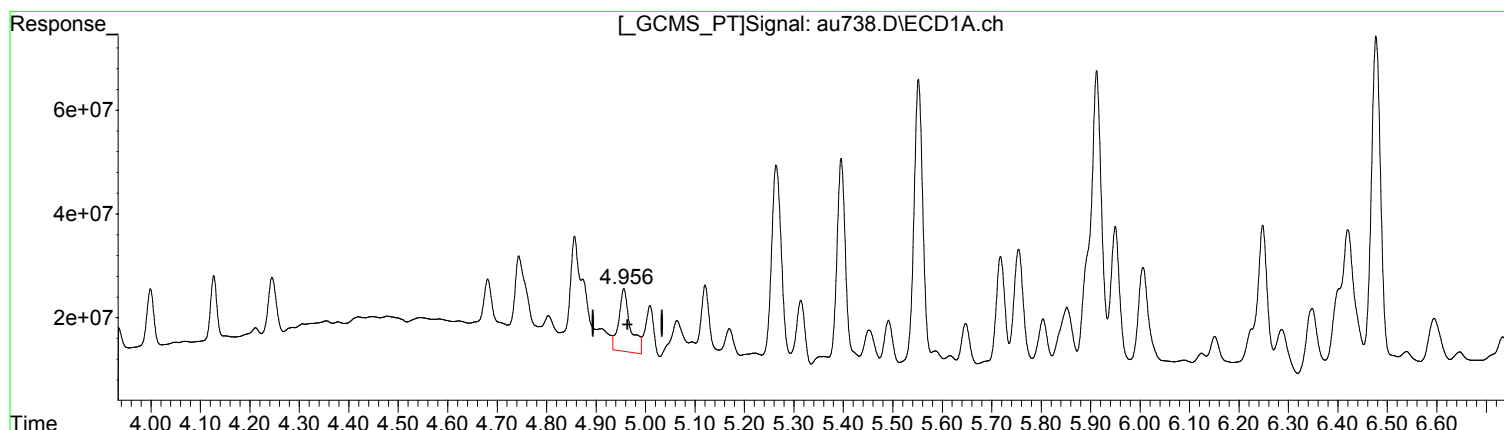
(12) alpha-Chlord #2 (tc)  
5.714min 5.076 ug/l m  
response 81885026

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(12) alpha-Chlord (tc)  
4.956min 9.283 ug/l  
response 197676784

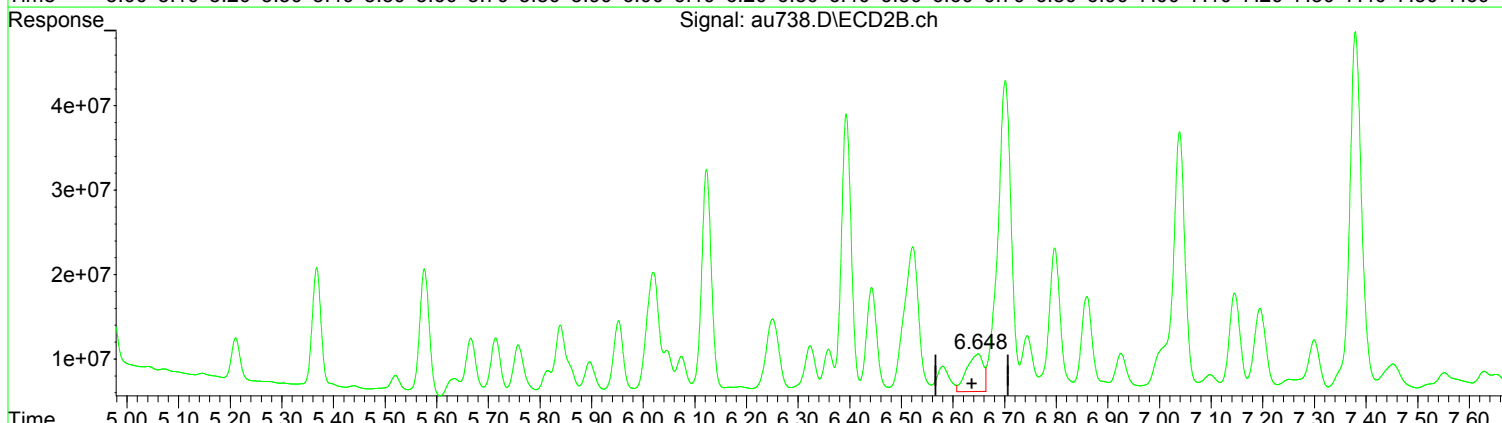
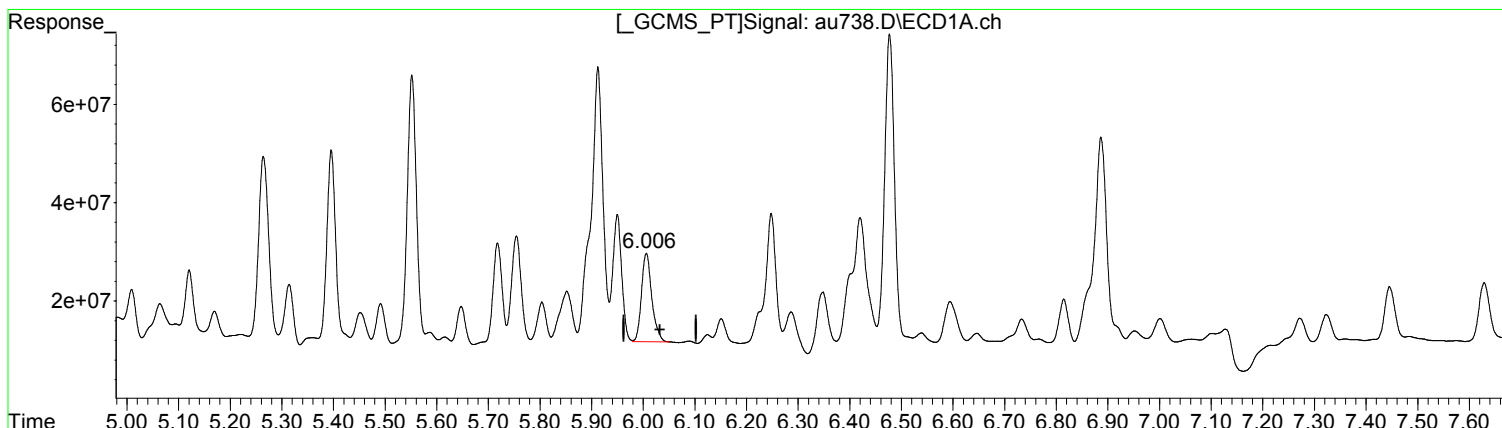
(12) alpha-Chlord #2 (tc)  
5.714min 5.859 ug/l  
response 94515299

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
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Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)  
6.006min 14.896 ug/l m  
response 249911803

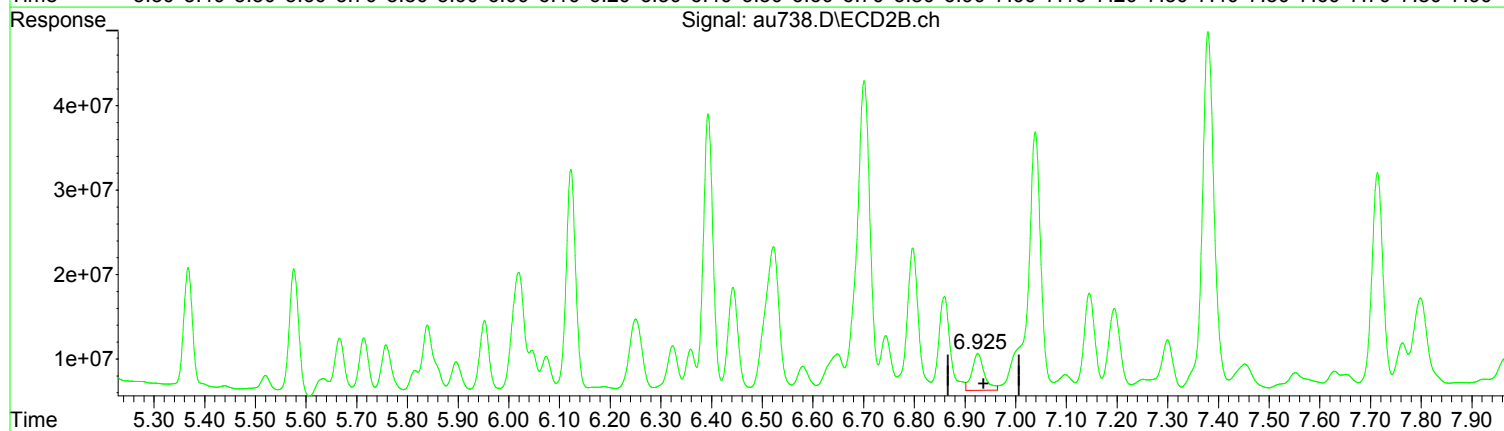
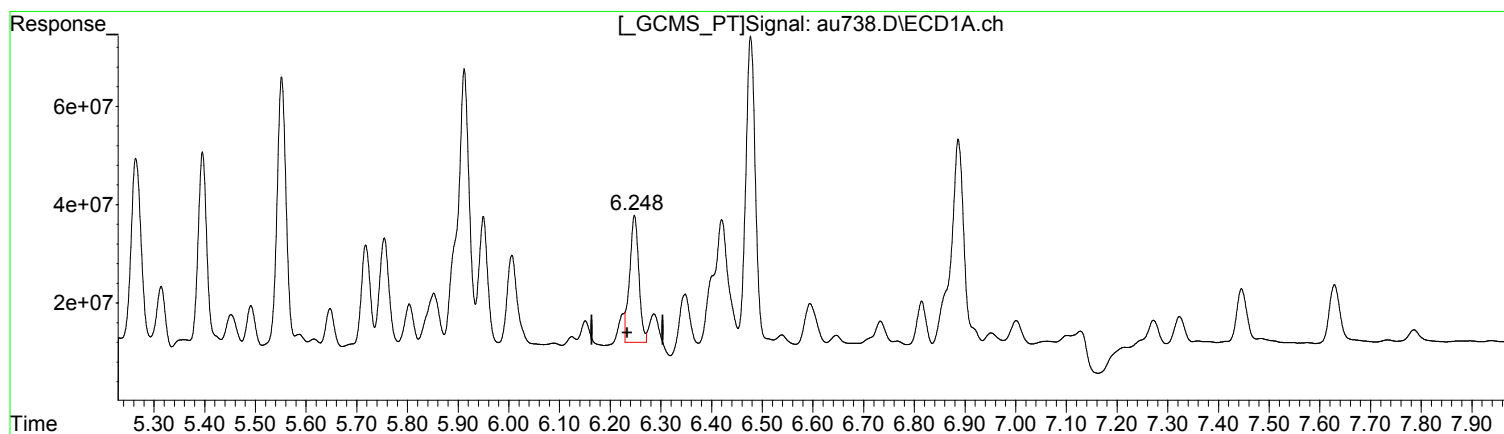
(20) Endrin Aldeh #2 (tc)  
6.649min 8.671 ug/l  
response 99415796

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endosulfan S (tc)  
6.248min 18.010 ug/l m  
response 325918036

(21) Endosulfan S #2 (tc)  
6.925min 5.615 ug/l  
response 73384761

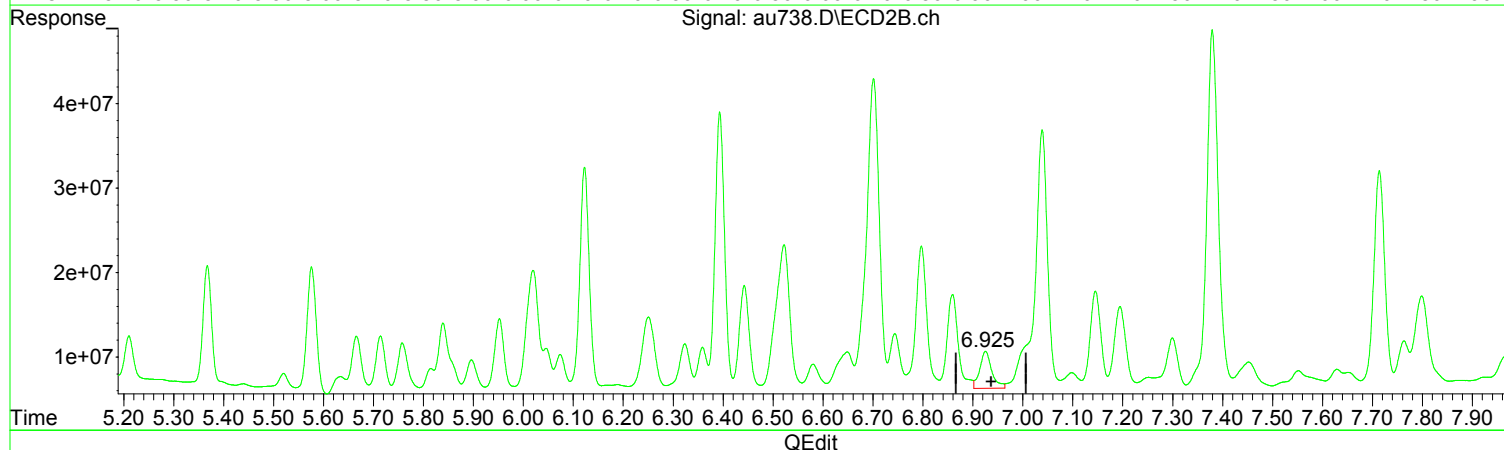
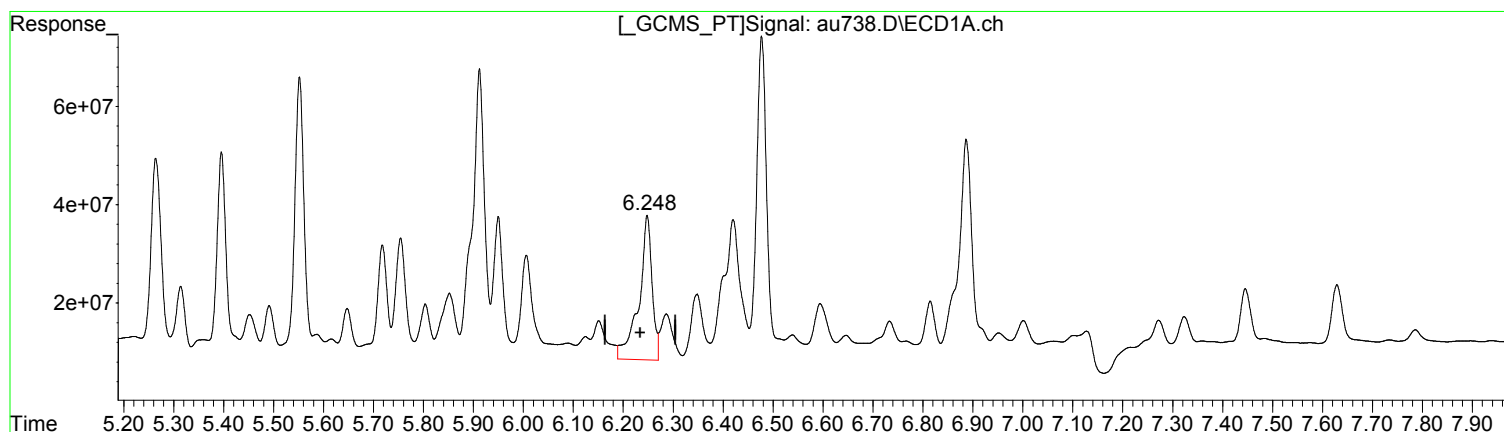
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endosulfan S (tc)  
6.248min 29.857 ug/l  
response 540304127

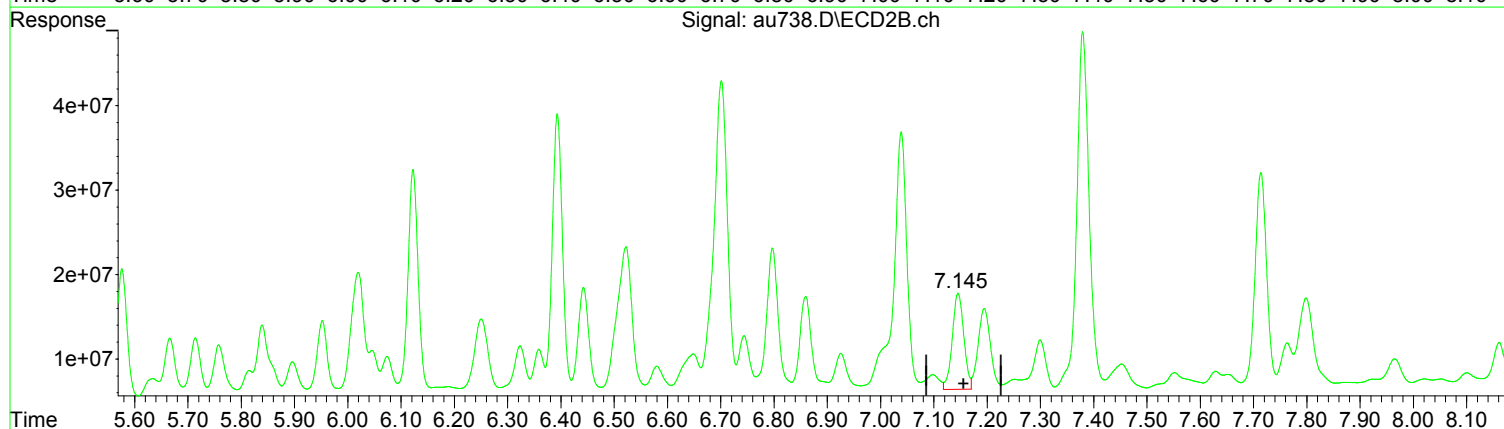
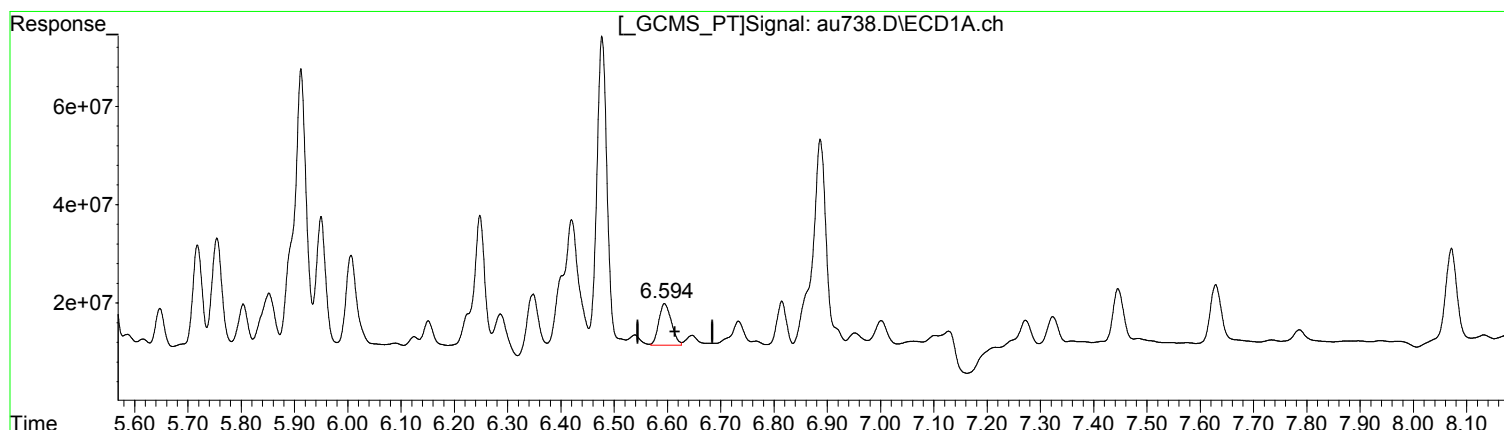
(21) Endosulfan S #2 (tc)  
6.925min 5.615 ug/l  
response 73384761

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
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Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
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Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)  
6.594min 15.451 ug/l m  
response 138175049

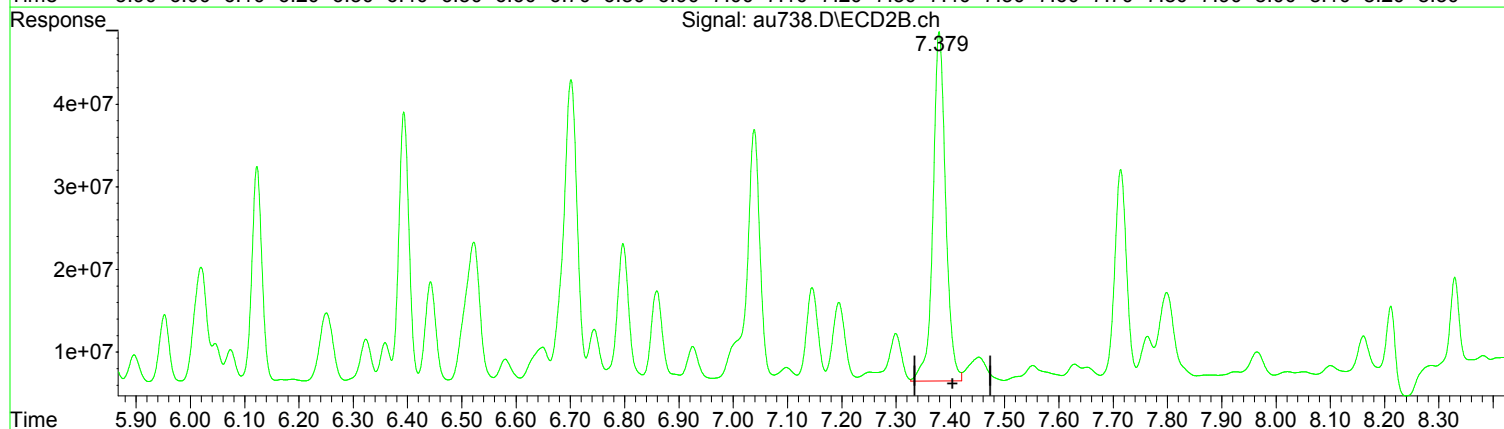
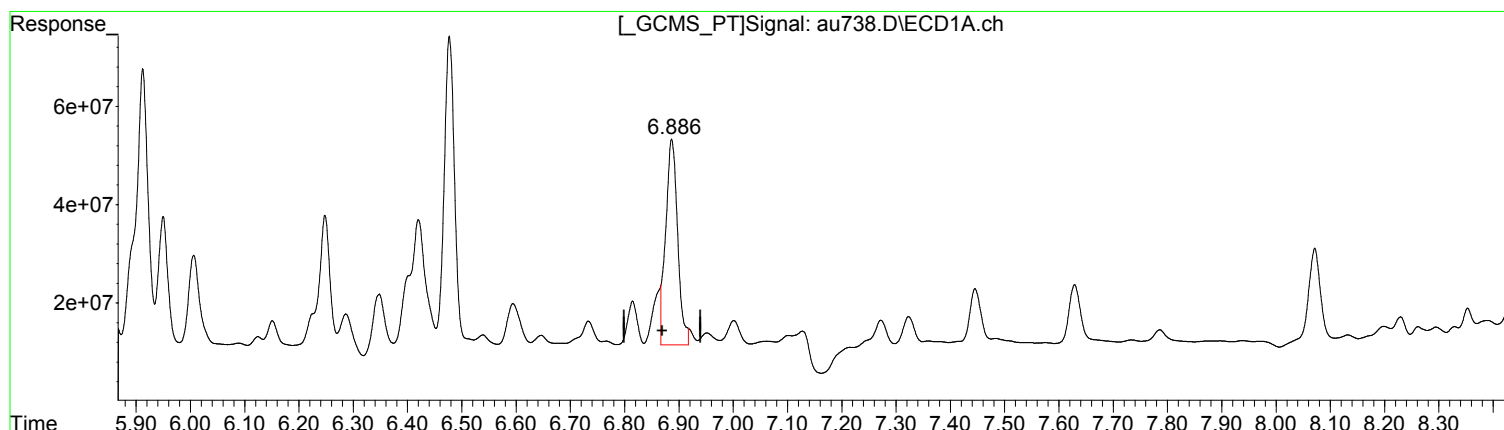
(22) Methoxychlor #2 (tc)  
7.145min 23.118 ug/l  
response 171551604

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
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Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.886min 32.745 ug/l m  
response 638570403

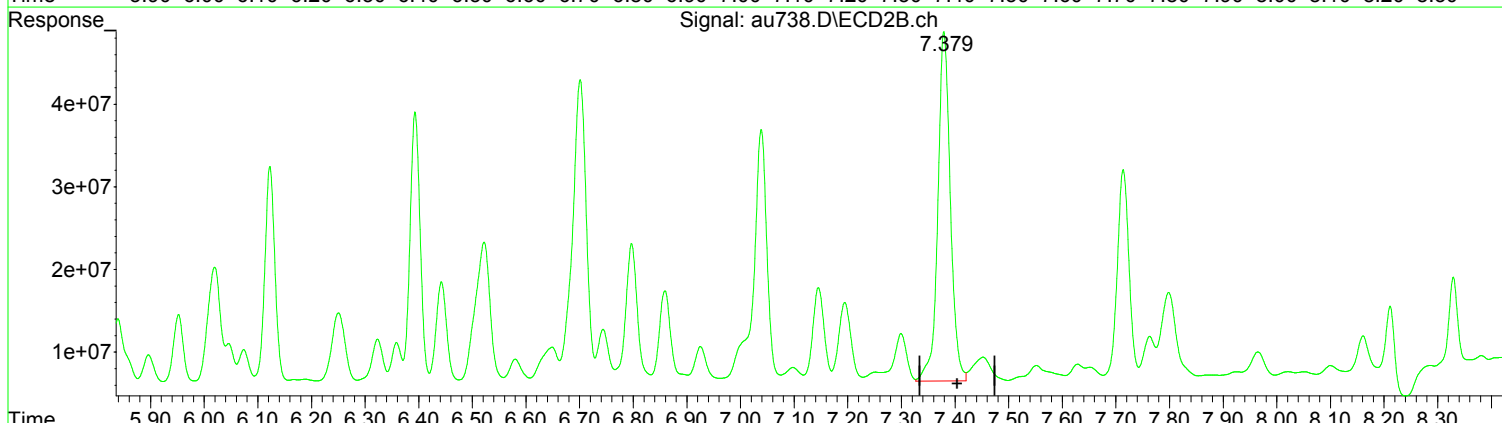
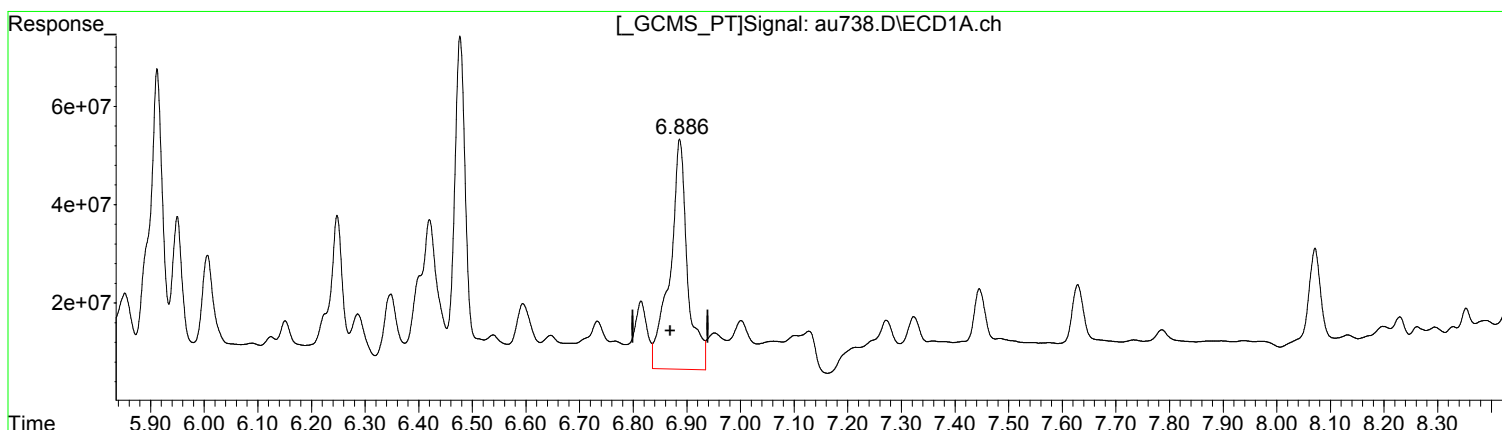
(24) Endrin Keton #2 (tc)  
7.379min 45.047 ug/l  
response 685978481

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
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Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
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Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
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Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.887min 54.759 ug/l  
response 1067863757

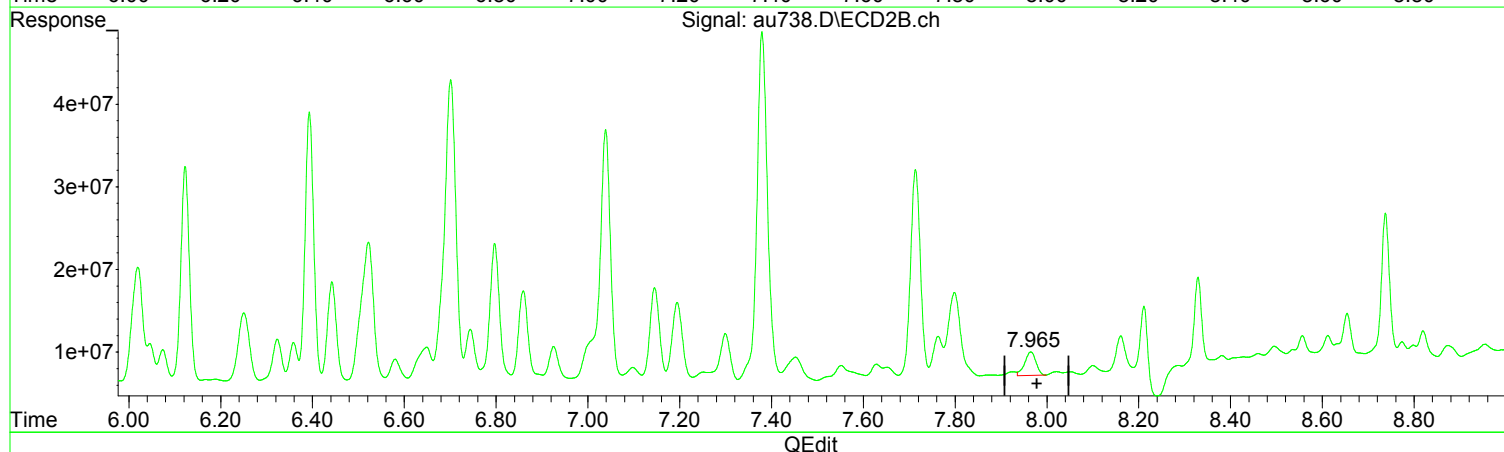
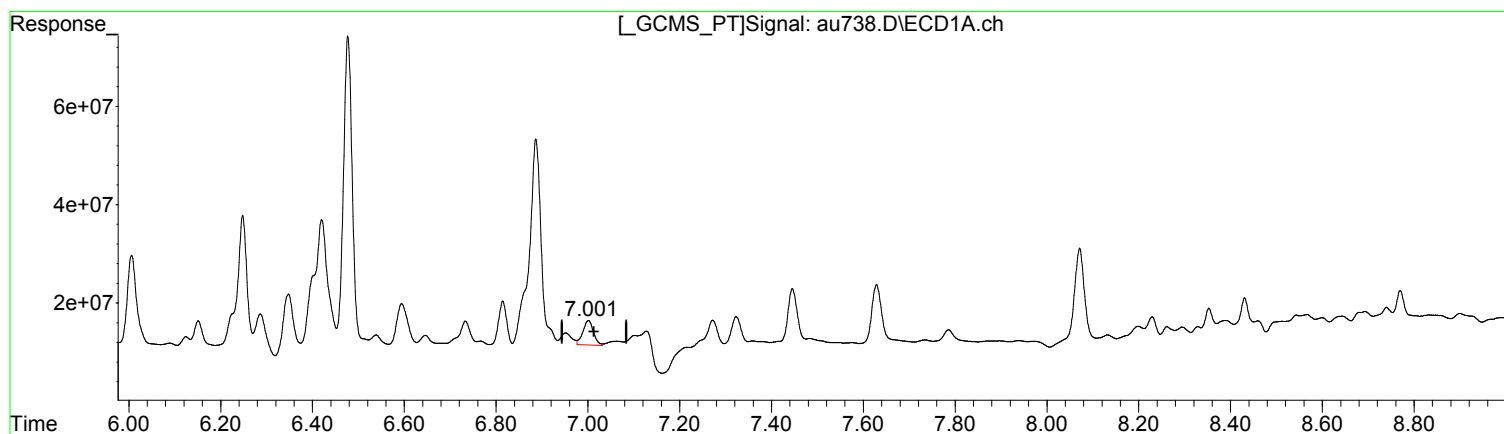
(24) Endrin Keton #2 (tc)  
7.379min 45.047 ug/l  
response 685978481

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
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Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
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Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) Mirex (tc)  
7.001min 5.247 ug/l m  
response 78950225

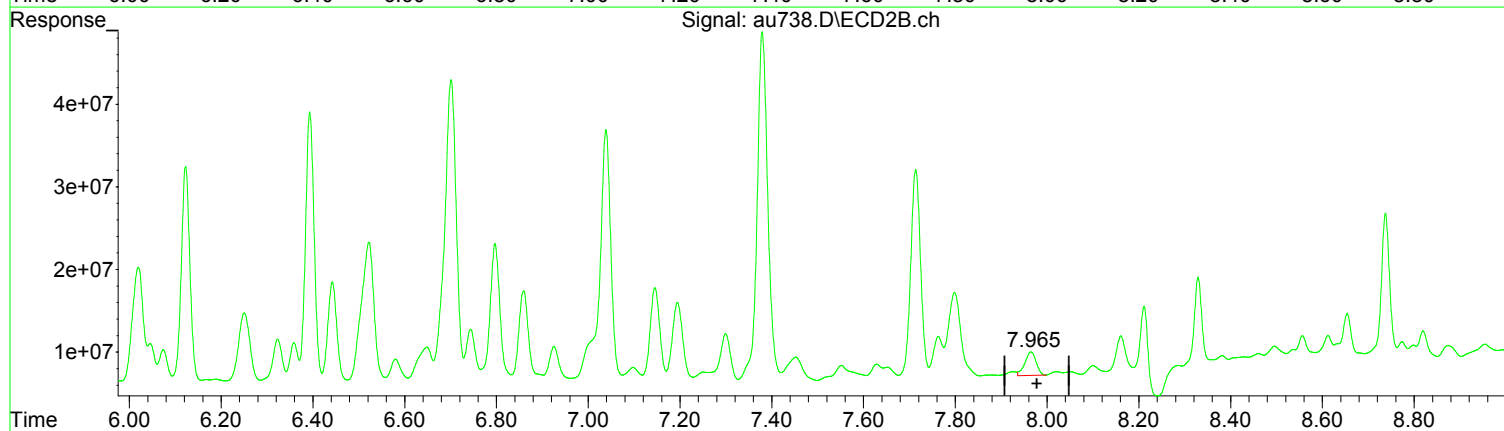
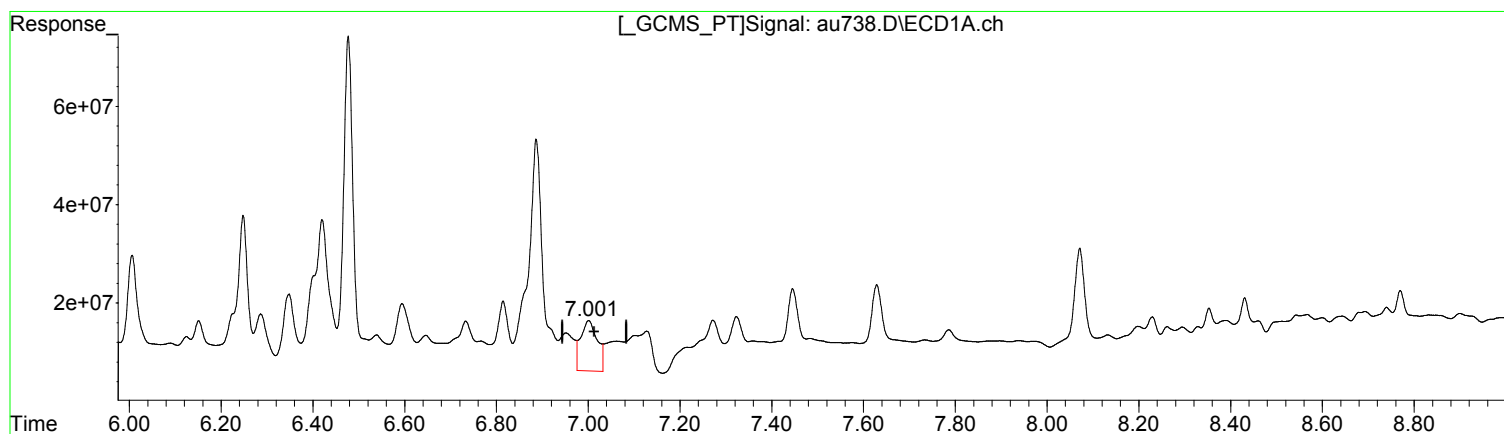
(25) Mirex #2 (tc)  
7.965min 4.610 ug/l  
response 48828654

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(25) Mirex (tc)  
7.001min 17.163 ug/l  
response 258256492

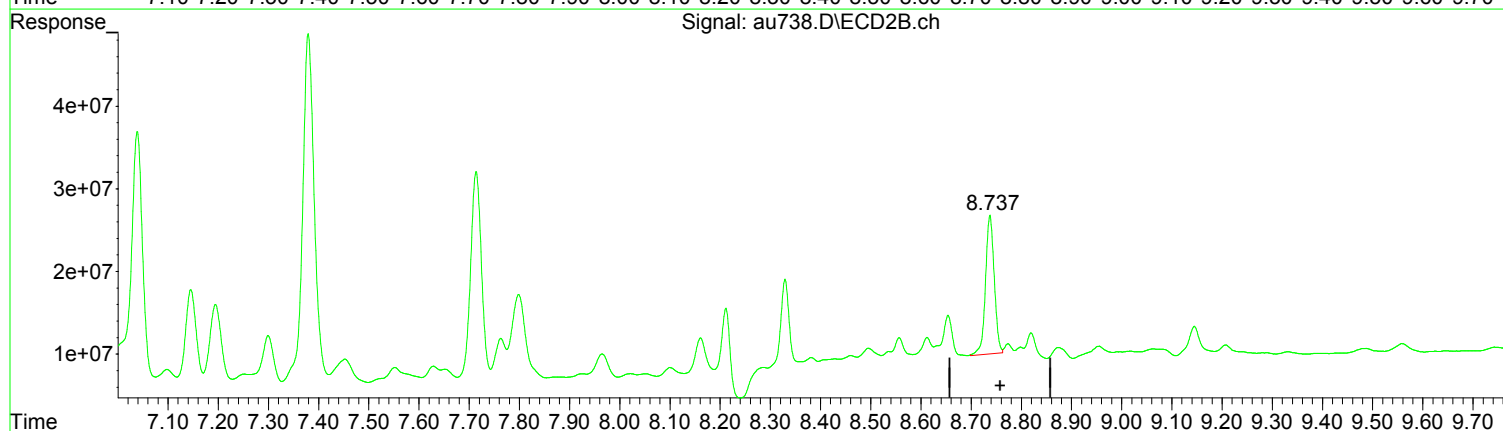
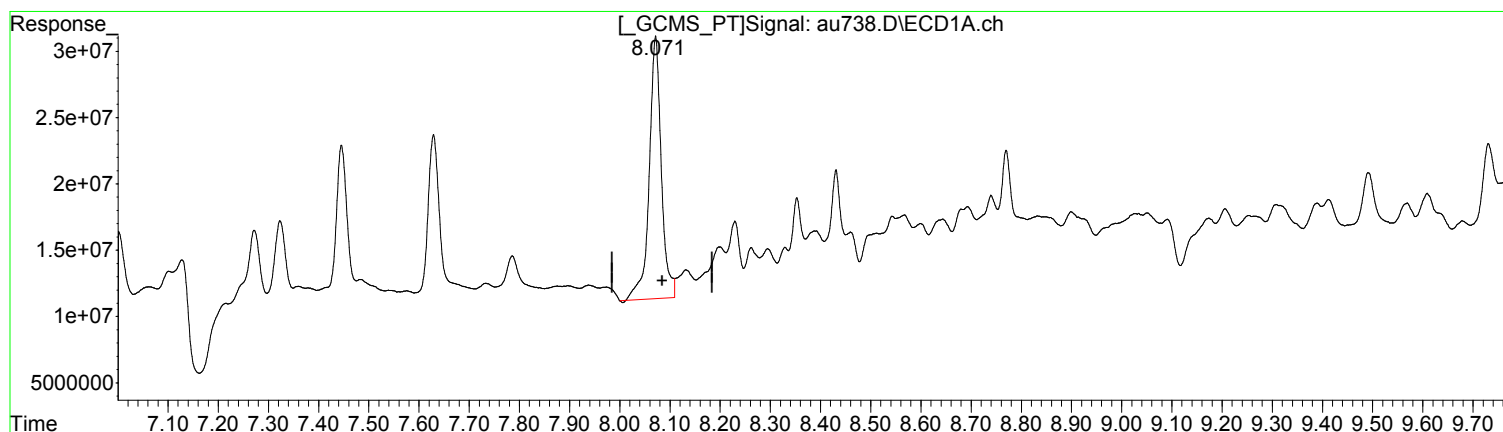
(25) Mirex #2 (tc)  
7.965min 4.610 ug/l  
response 48828654

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) SURR2,Decachlorobiphenyl (S)  
8.071min 22.549 ug/l  
response 331546680

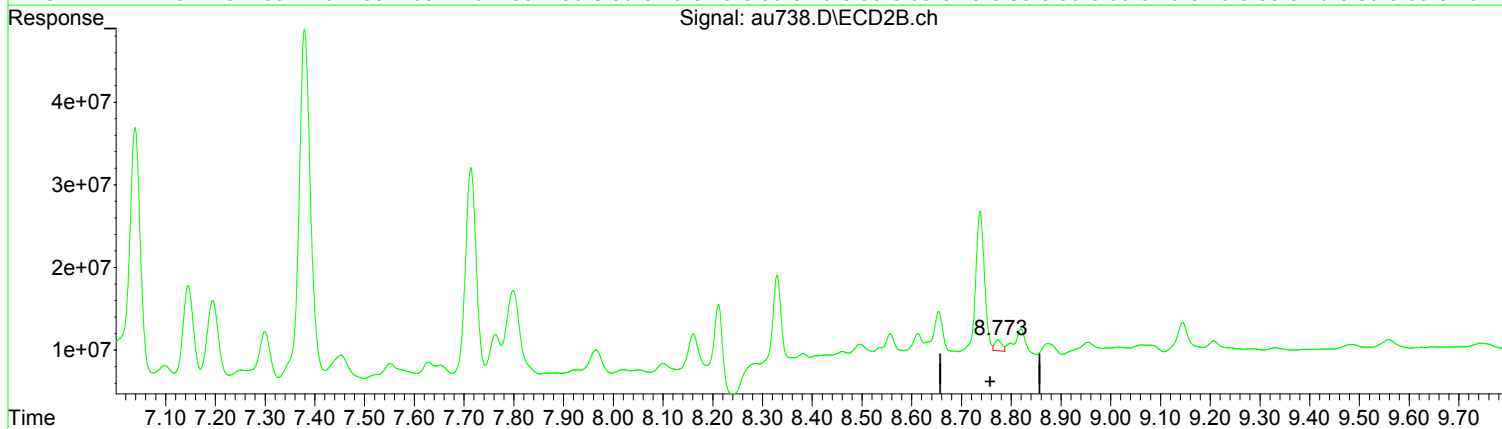
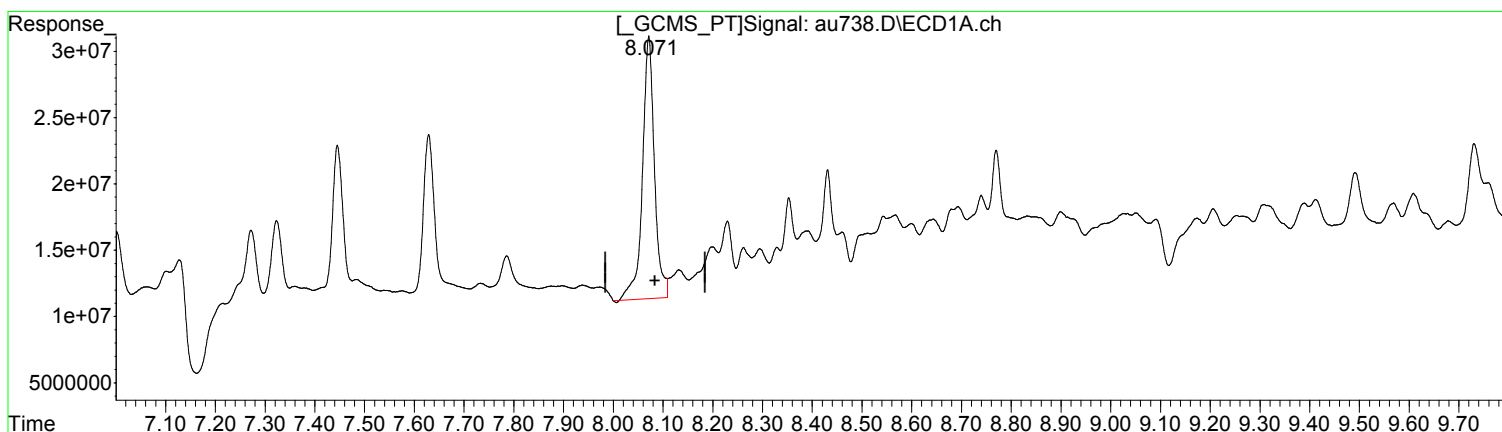
(26) SURR2,Decachlorobiphenyl #2 (S)  
8.737min 18.351 ug/l m  
response 202500508

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURR2,Decachlorobiphenyl (S)  
8.071min 22.549 ug/l  
response 331546680

(26) SURR2,Decachlorobiphenyl #2 (S)  
8.774min 1.241 ug/l  
response 13693680

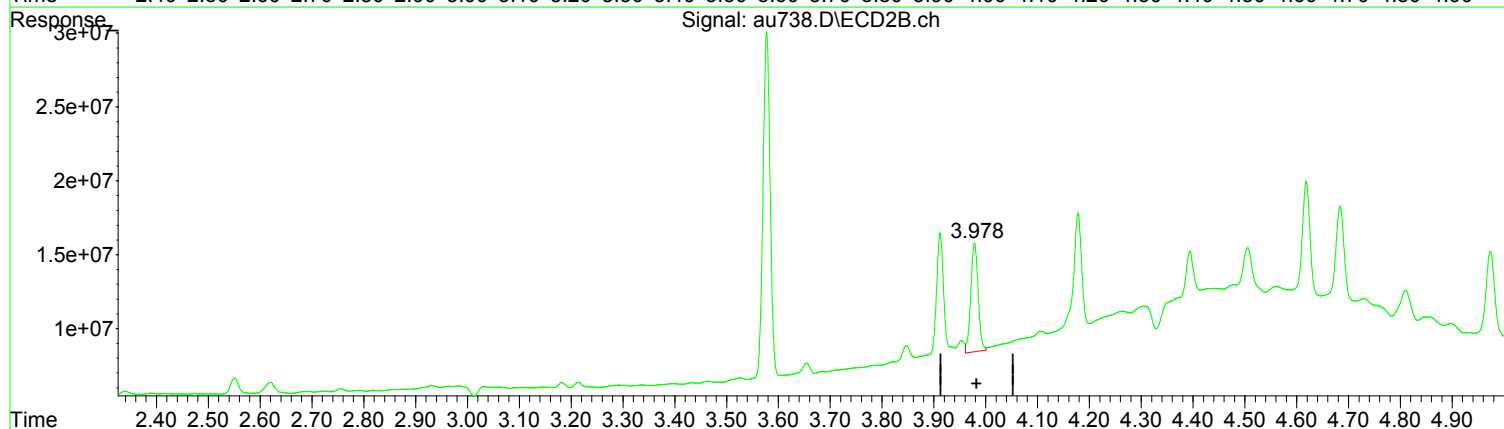
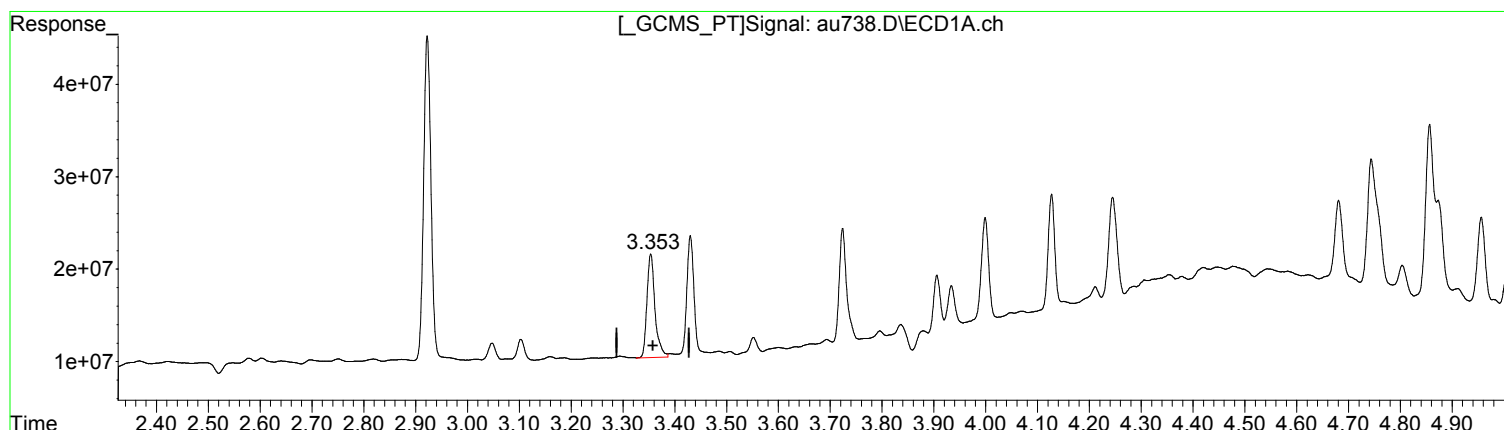
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) HEXACHLOROBENZENE (TC)  
3.354min 5.999 ug/l  
response 120679632

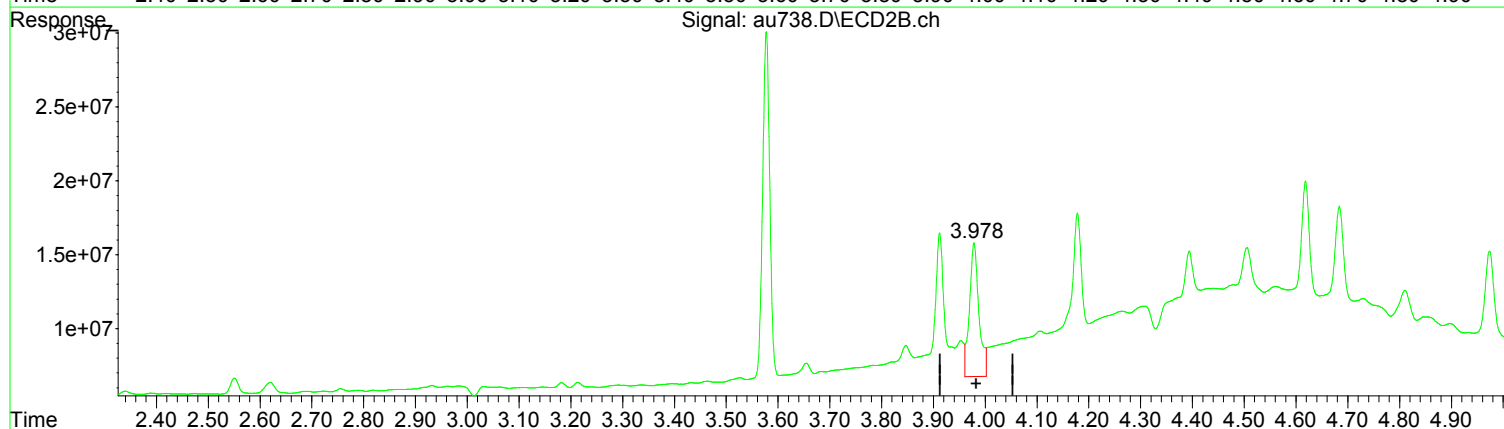
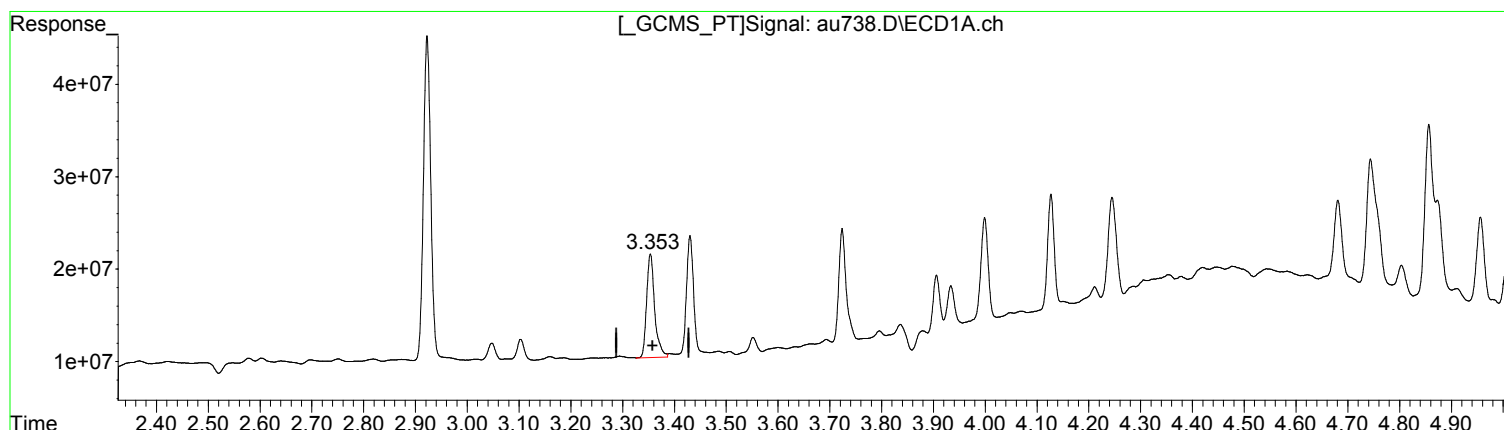
(2) HEXACHLOROBENZENE #2 (TC)  
3.978min 4.995 ug/l m  
response 72521937

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) HEXACHLOROBENZENE (TC)

3.354min 5.999 ug/l  
response 120679632

(2) HEXACHLOROBENZENE #2 (TC)

3.979min 7.909 ug/l  
response 114826948

Manual Integration:

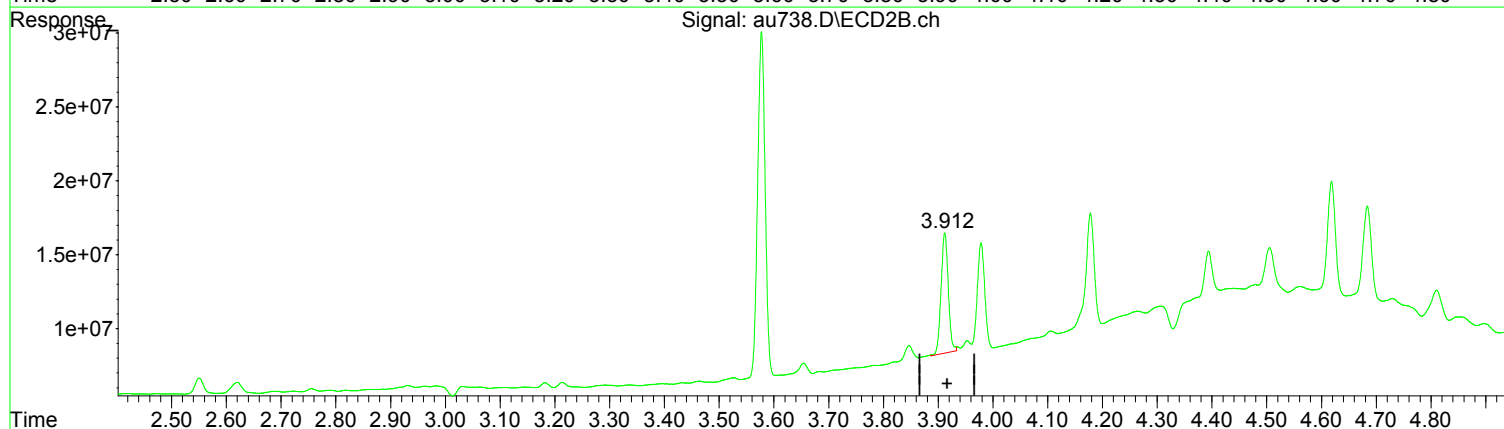
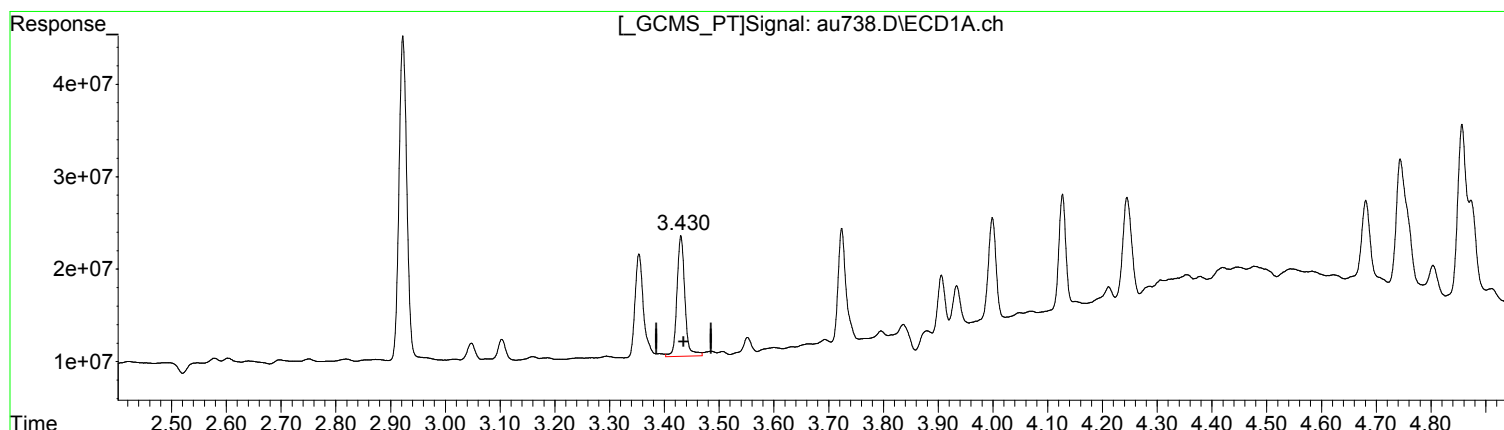
Before

02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)  
3.430min 4.122 ug/l  
response 130100620

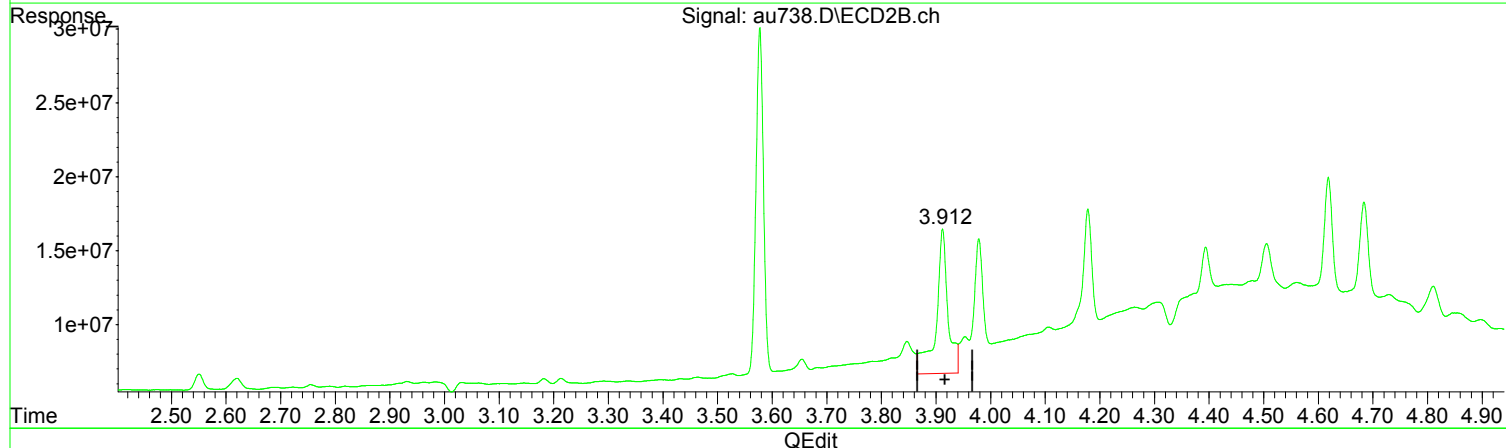
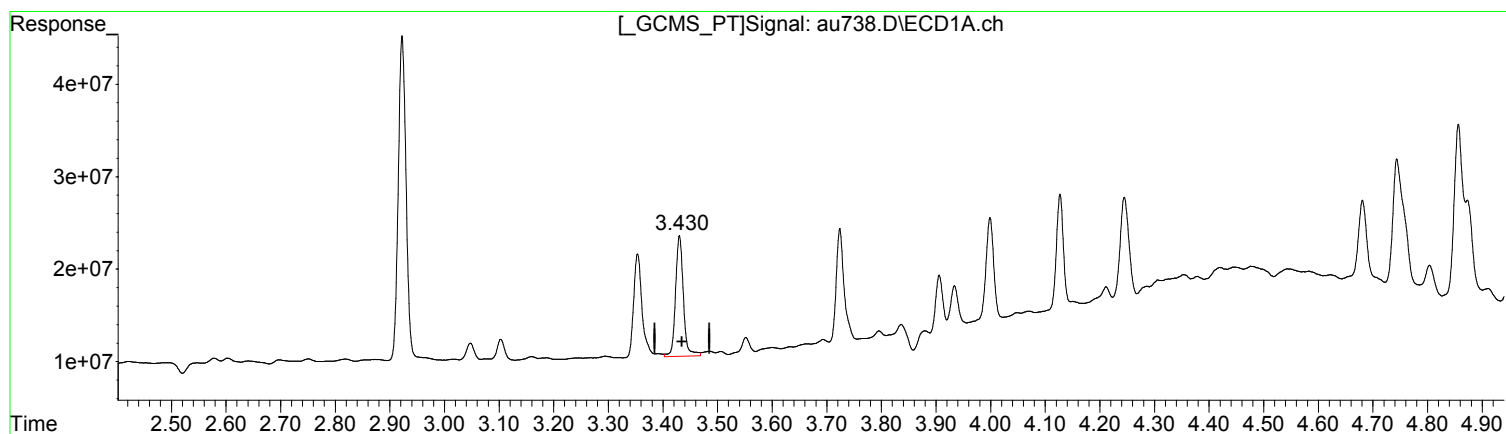
(3) alpha-BHC #2 (tc)  
3.912min 3.466 ug/l m  
response 74667773

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) alpha-BHC (tc)  
3.430min 4.122 ug/l  
response 130100620

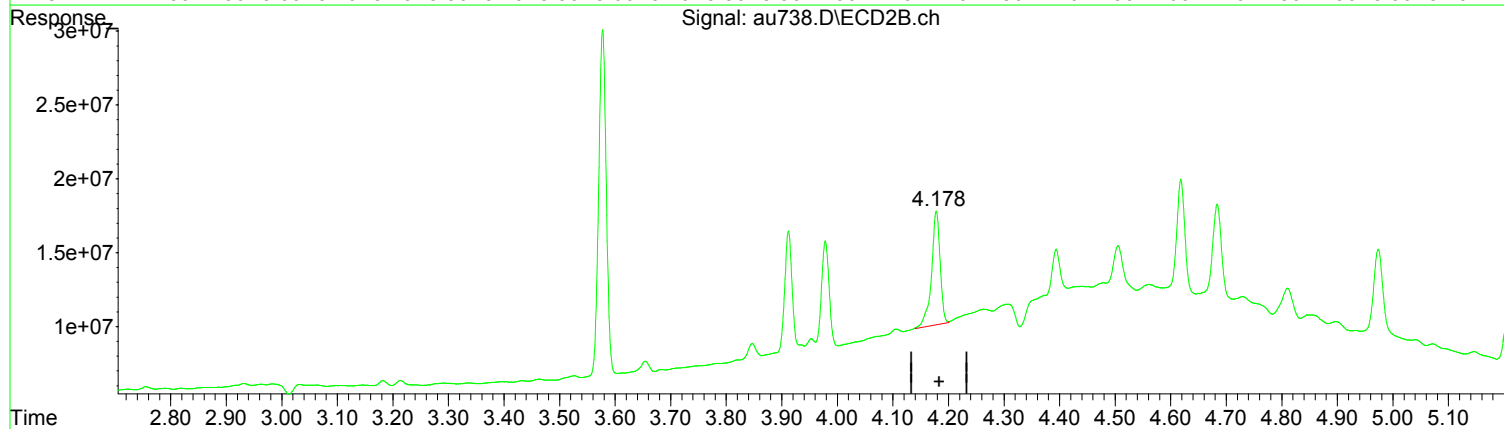
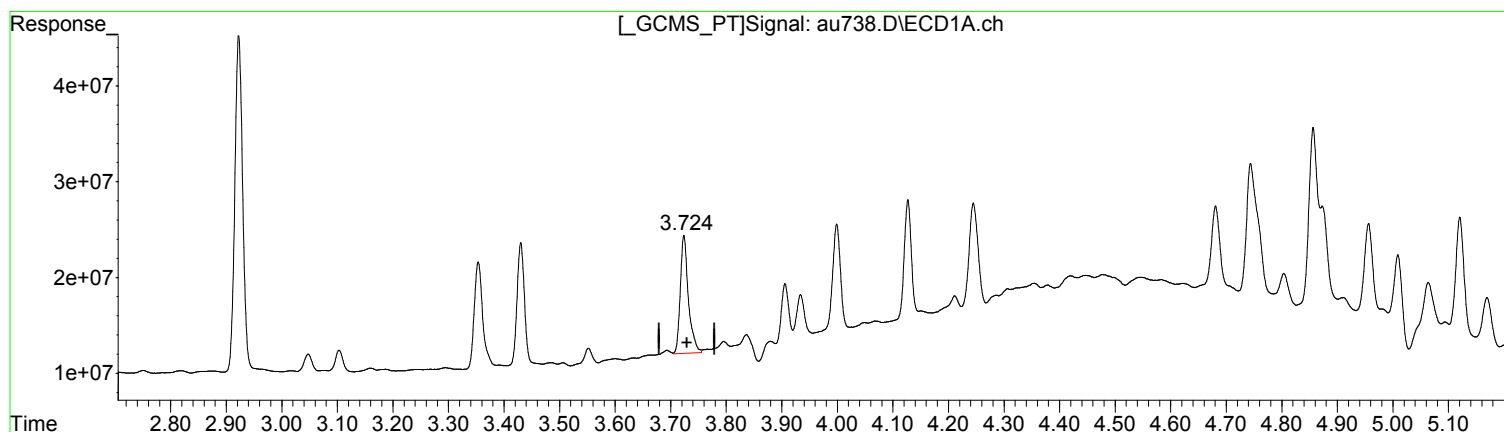
(3) alpha-BHC #2 (tc)  
3.912min 6.856 ug/l  
response 147685344

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.724min 4.579 ug/l m  
response 124945408

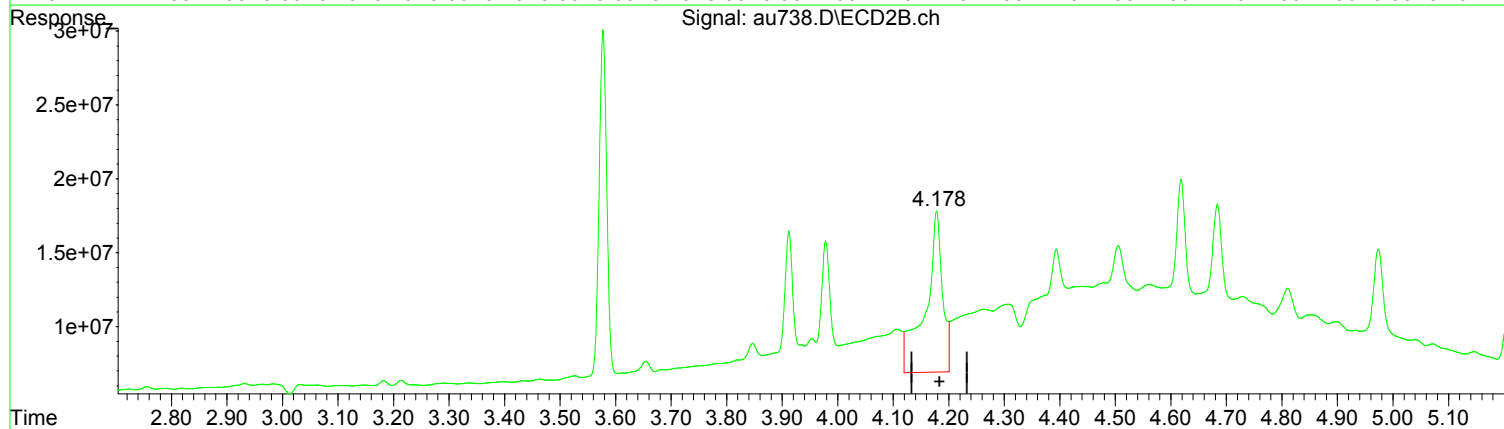
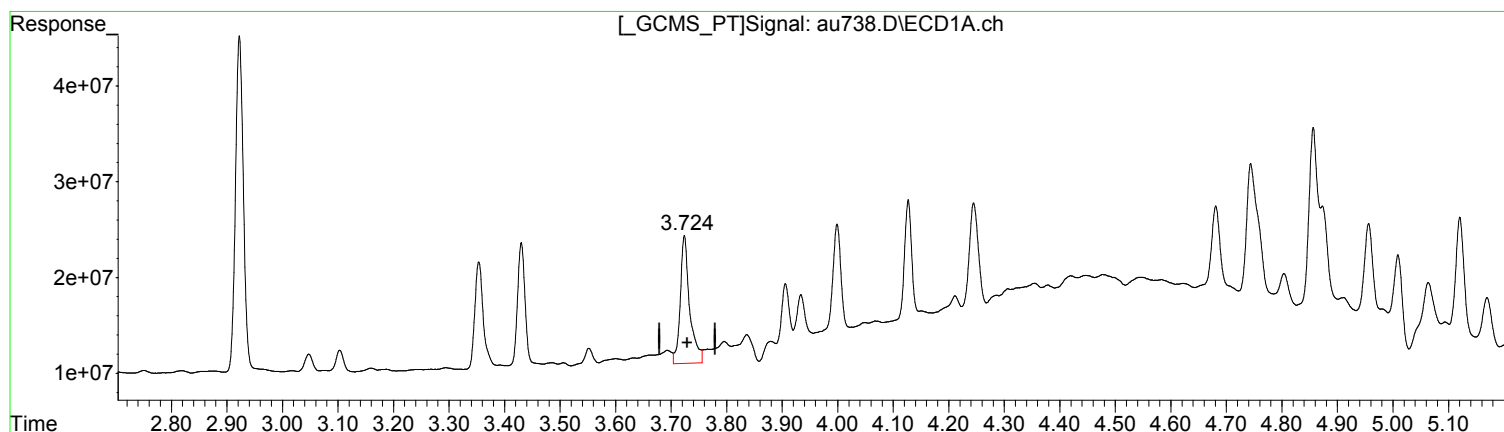
(4) gamma-BHC (L #2 (tcm)  
4.178min 4.261 ug/l m  
response 83220424

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(4) gamma-BHC (L (tcm)  
3.724min 5.775 ug/l  
response 157569269

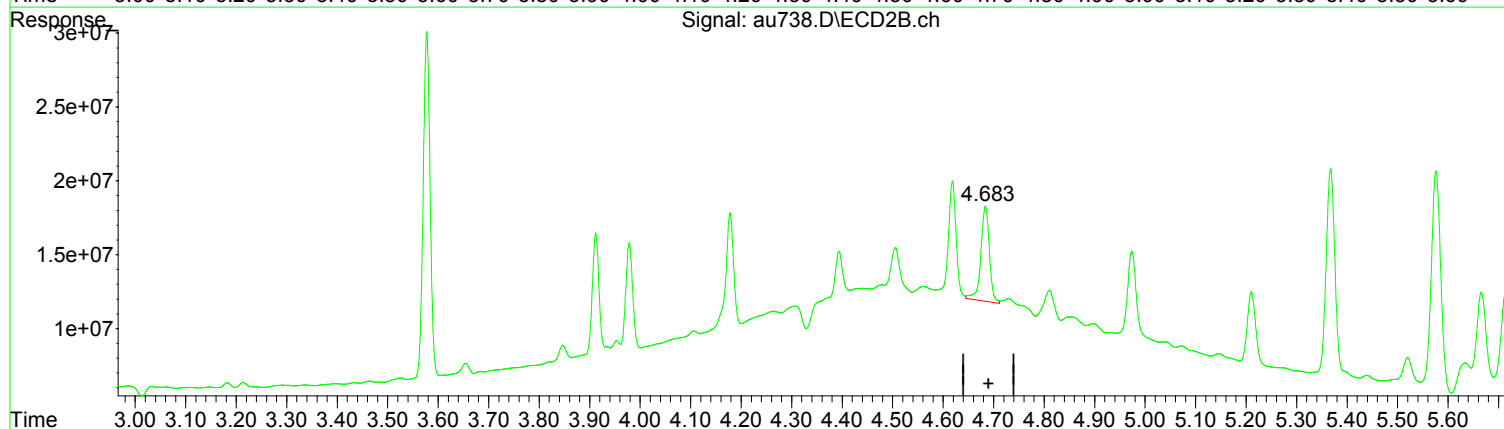
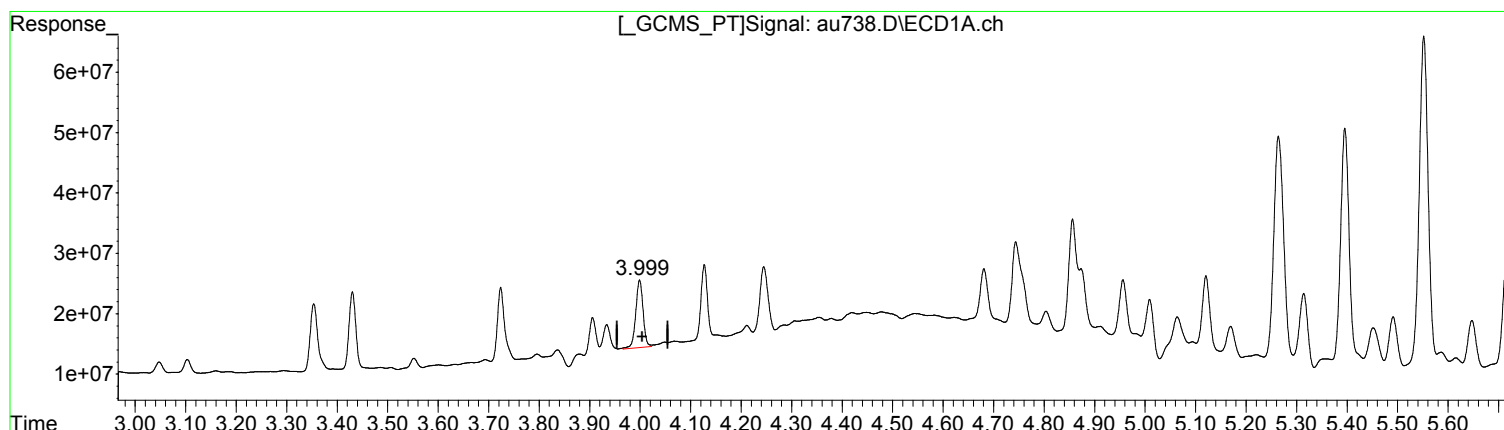
(4) gamma-BHC (L #2 (tcm)  
4.178min 11.958 ug/l  
response 233570063

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)  
3.999min 4.291 ug/l m  
response 112605553

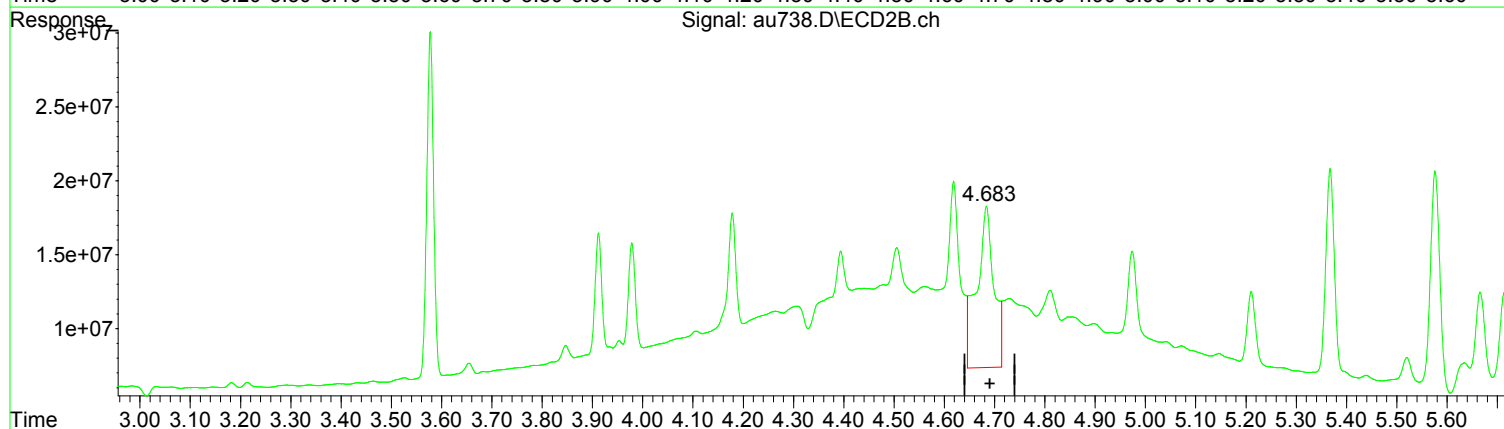
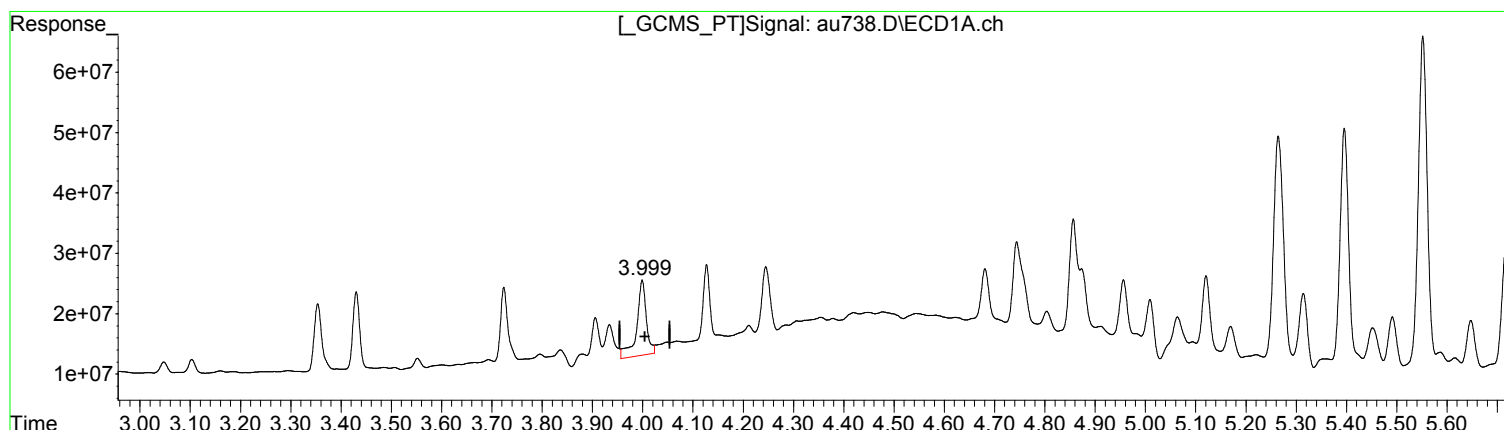
(5) Heptachlor #2 (tcm)  
4.683min 3.916 ug/l m  
response 75083256

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(5) Heptachlor (tcm)  
3.999min 6.320 ug/l  
response 165830606

(5) Heptachlor #2 (tcm)  
4.684min 13.535 ug/l  
response 259496648

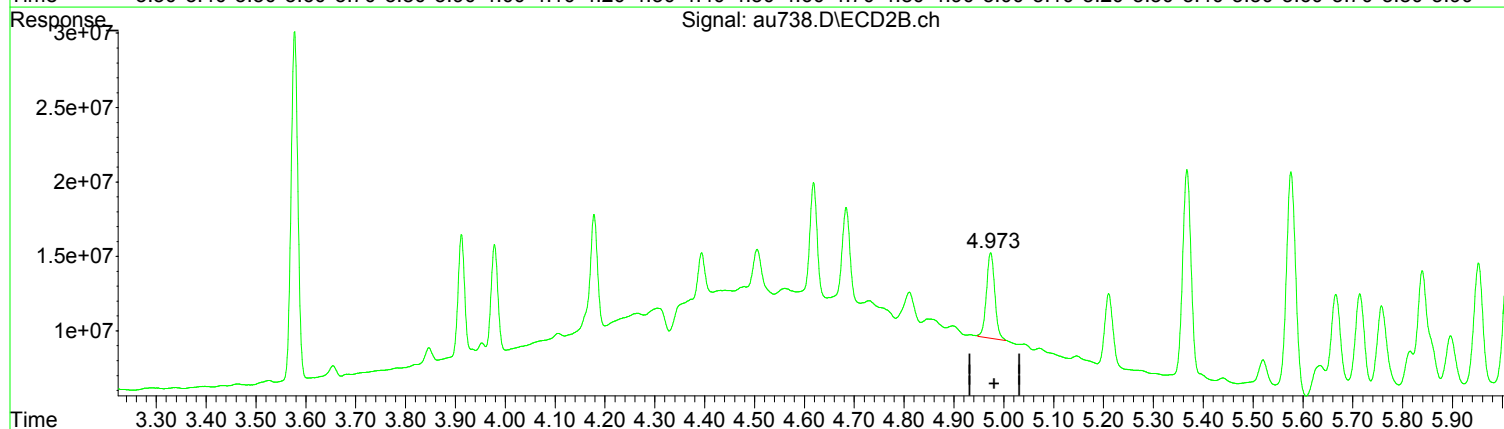
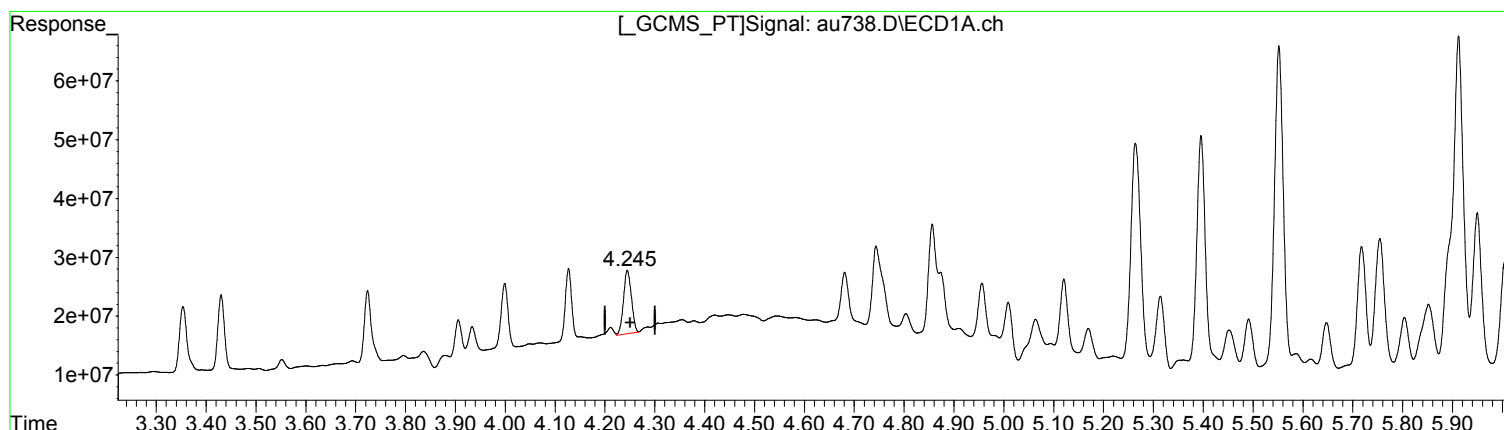
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(6) Aldrin (tcm)  
4.245min 4.746 ug/l m  
response 119001090

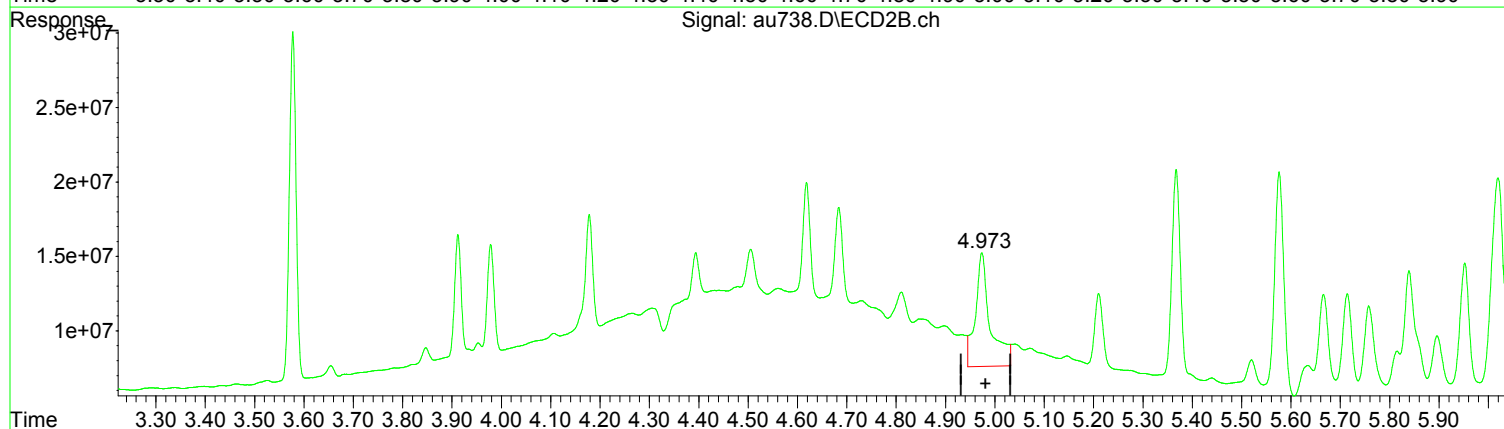
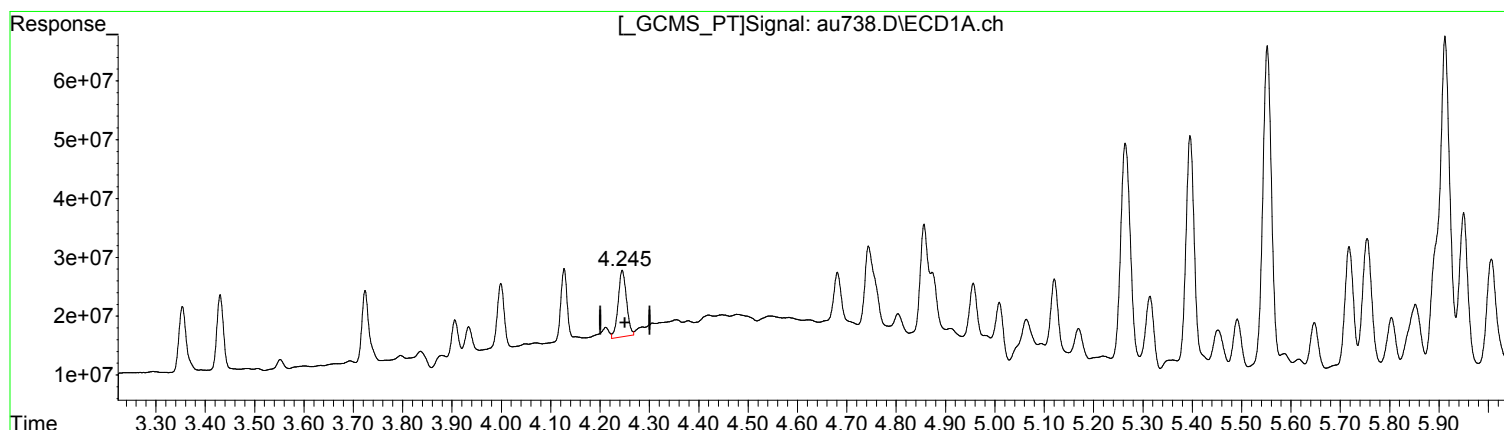
(6) Aldrin #2 (tcm)  
4.973min 3.814 ug/l m  
response 66650693

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(6) Aldrin (tcm)  
4.245min 5.301 ug/l  
response 132915572

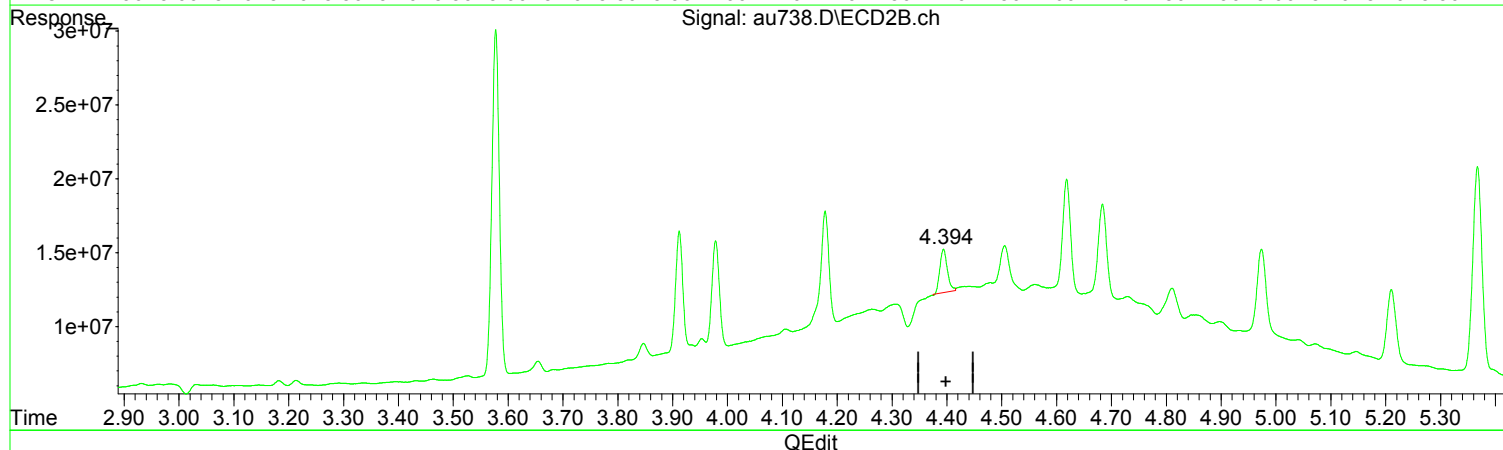
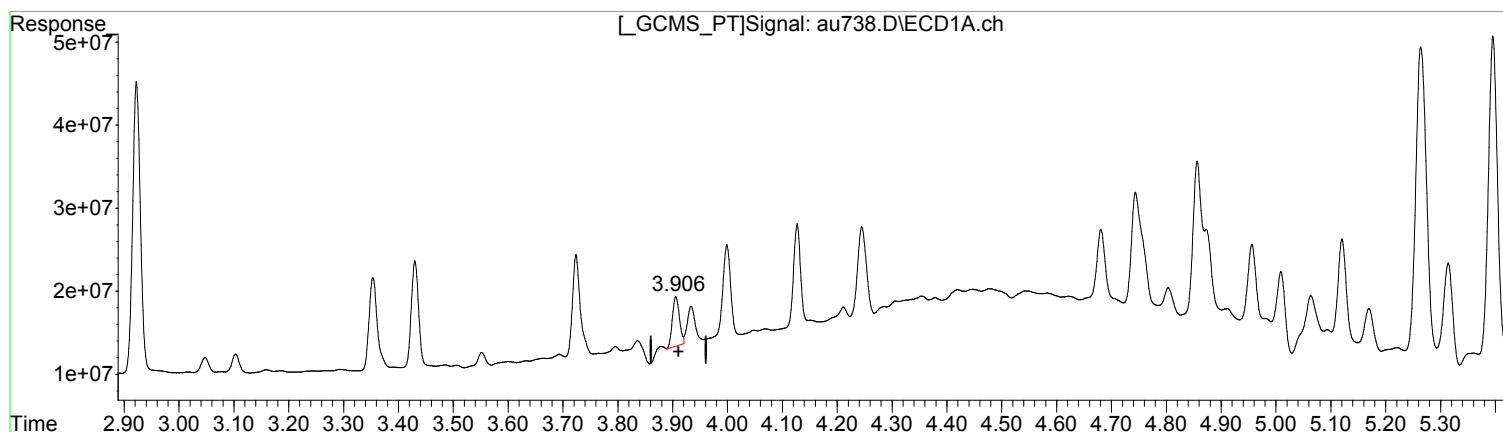
(6) Aldrin #2 (tcm)  
4.974min 9.183 ug/l  
response 160482966

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.906min 4.095 ug/l m  
response 53101560

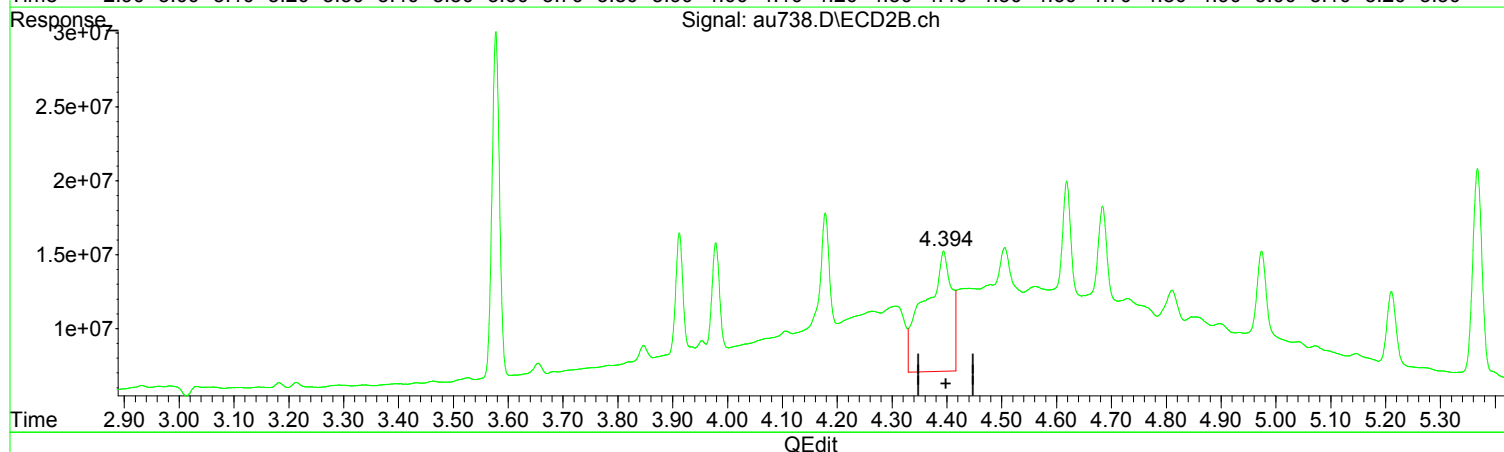
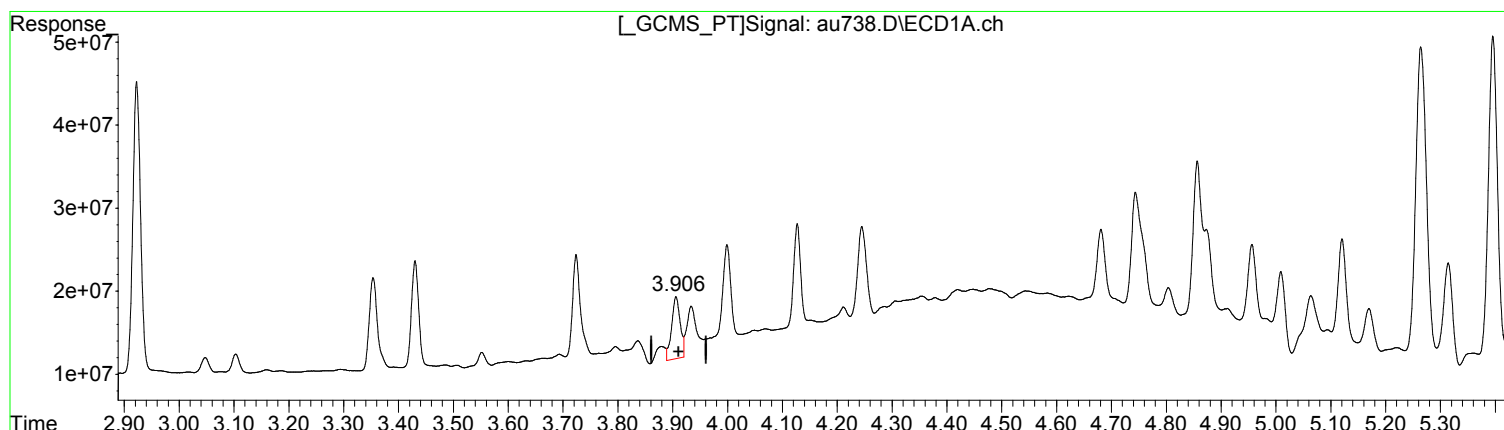
(7) beta-BHC #2 (tc)  
4.394min 3.072 ug/l m  
response 28265834

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.906min 6.223 ug/l  
response 80693836

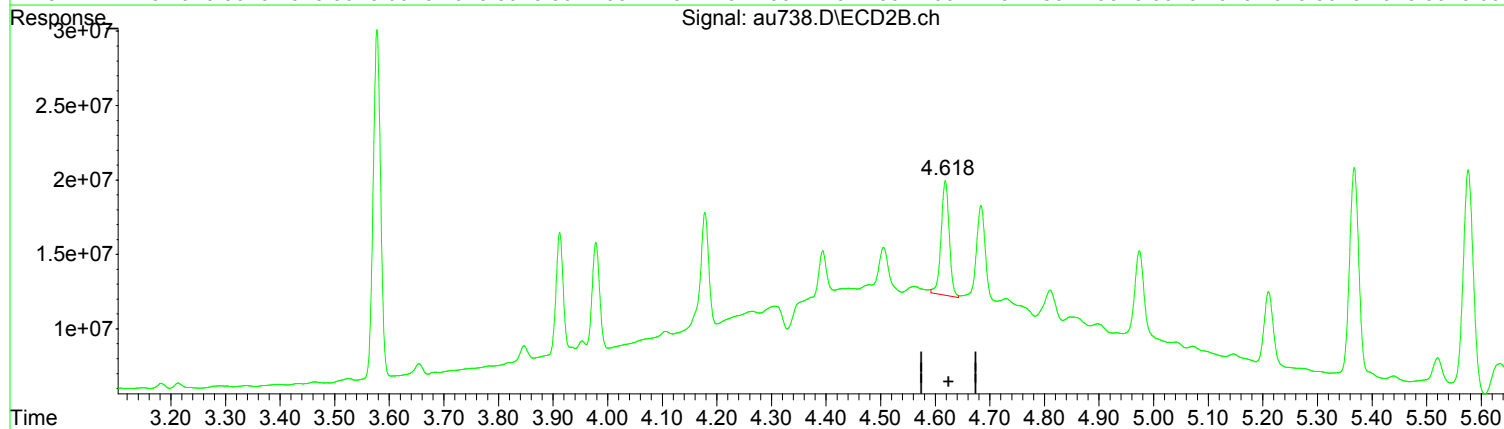
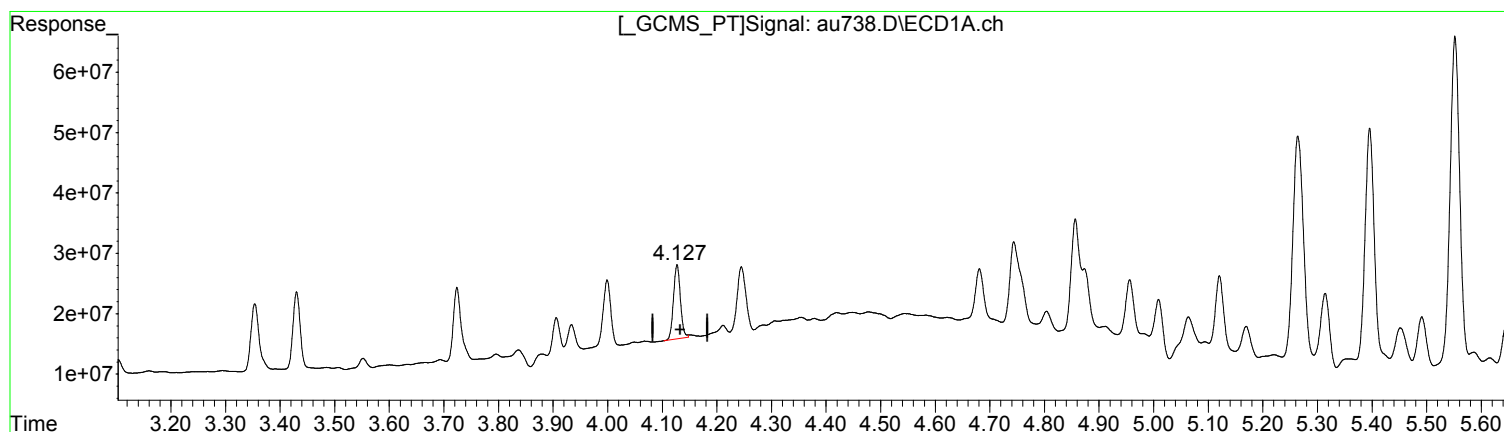
(7) beta-BHC #2 (tc)  
4.394min 30.165 ug/l  
response 277523463

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)  
4.127min 4.102 ug/l m  
response 108165609

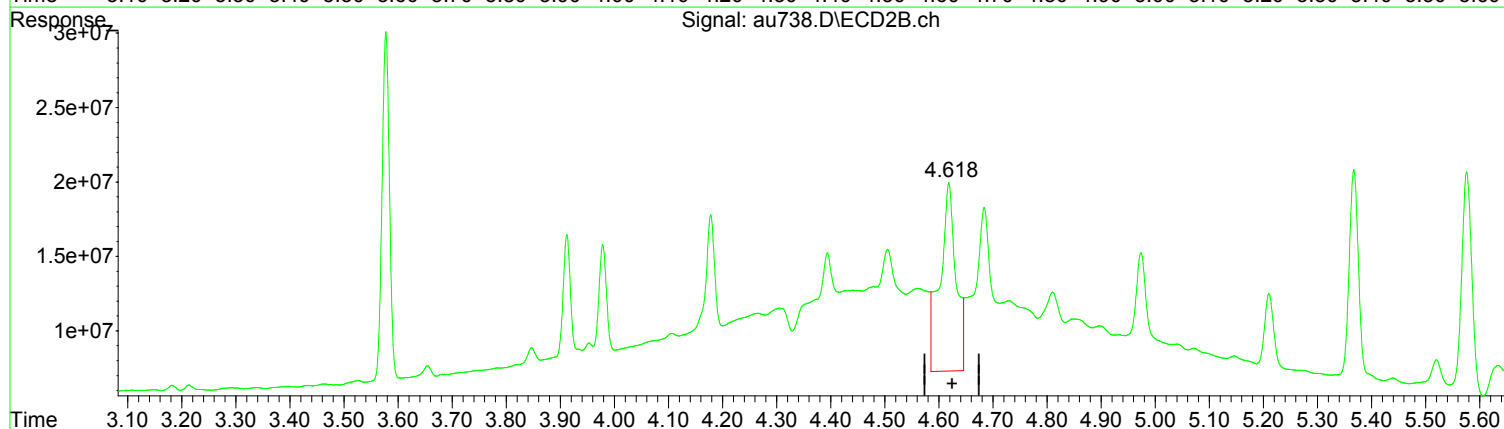
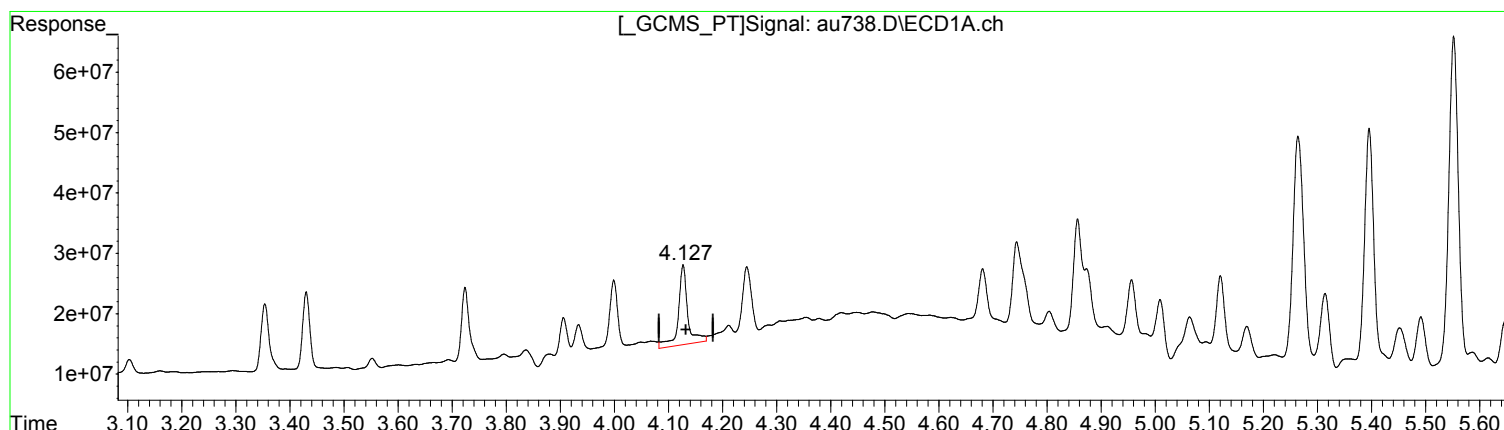
(8) delta-BHC #2 (tc)  
4.618min 4.096 ug/l m  
response 80033440

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) delta-BHC (tc)  
4.127min 6.076 ug/l  
response 160210472

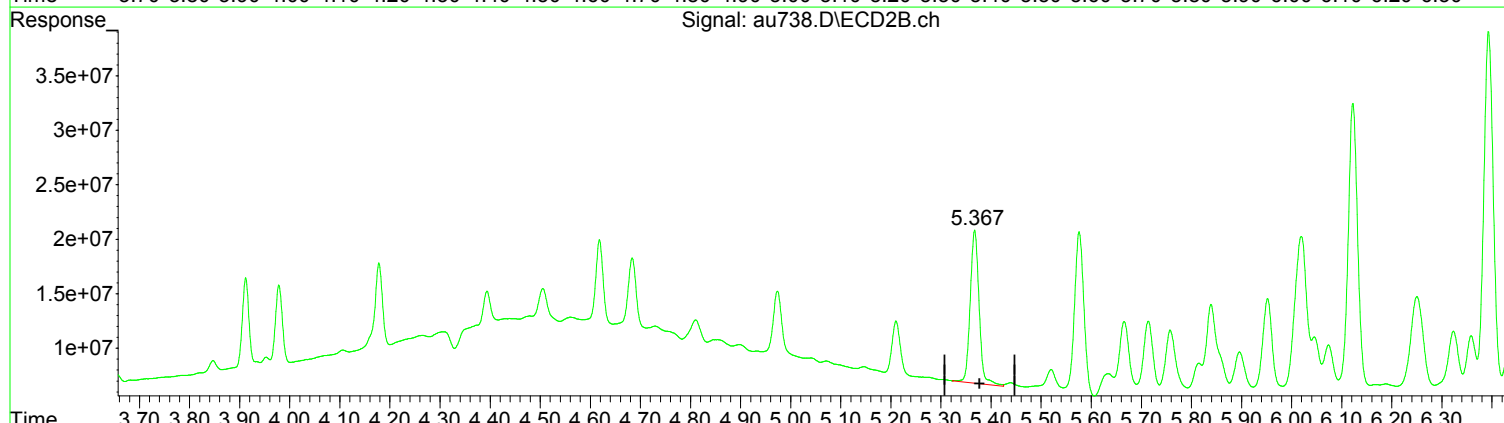
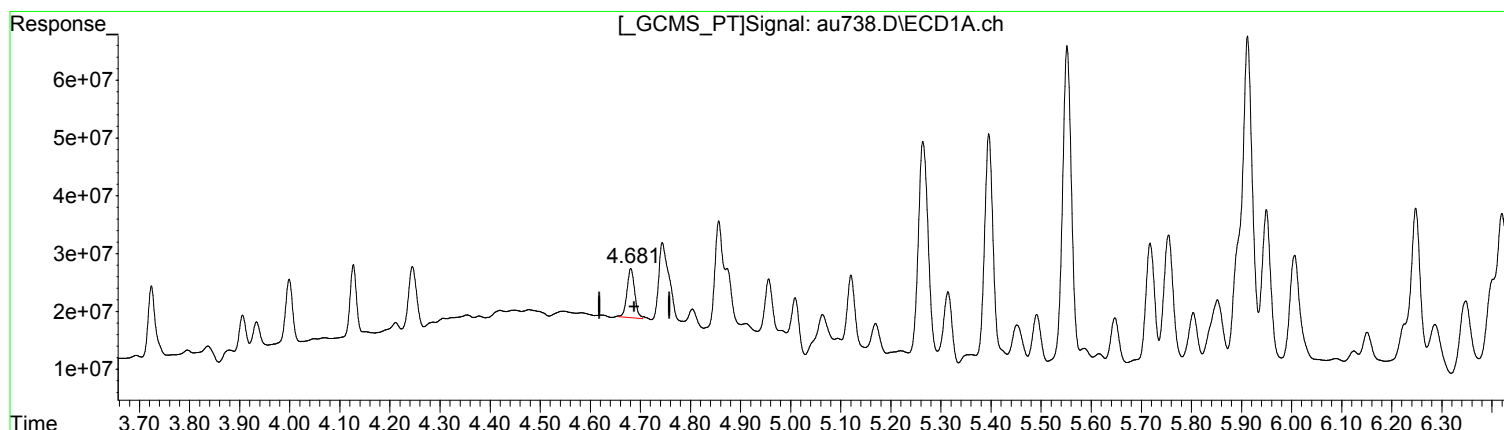
(8) delta-BHC #2 (tc)  
4.619min 13.411 ug/l  
response 262054006

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)  
4.681min 4.129 ug/l m  
response 90296231

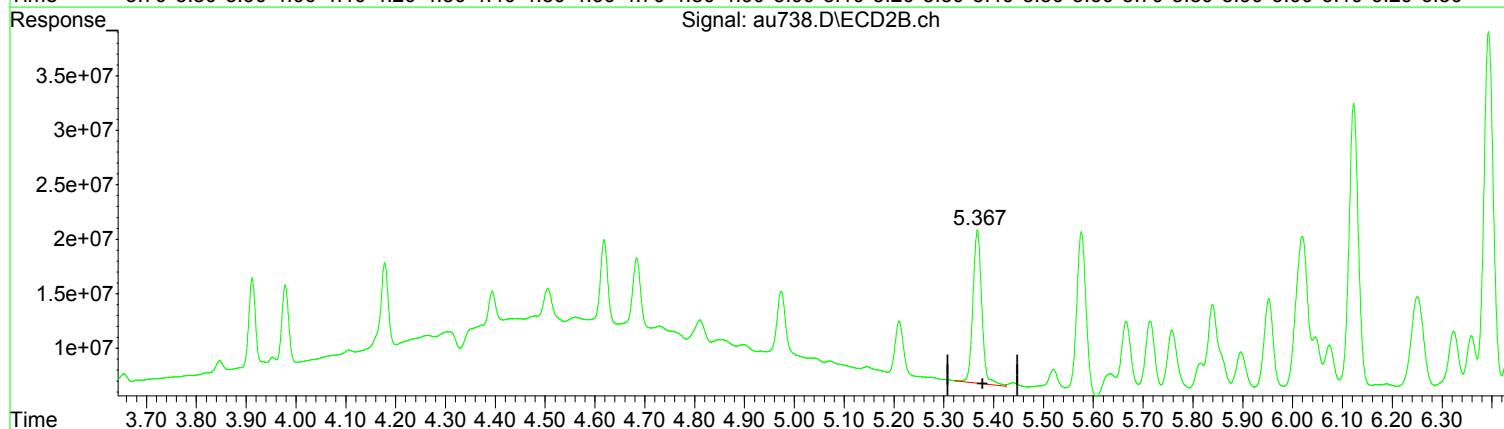
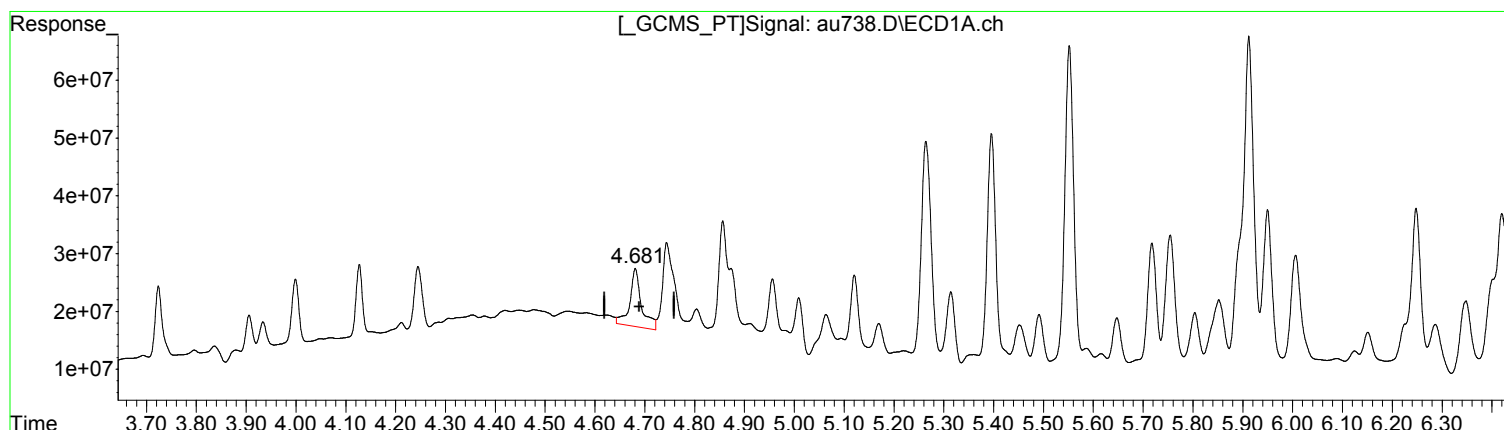
(9) Heptachlor E #2 (tc)  
5.368min 10.466 ug/l  
response 172755963

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(9) Heptachlor E (tc)  
4.681min 7.539 ug/l  
response 164839417

(9) Heptachlor E #2 (tc)  
5.368min 10.466 ug/l  
response 172755963

Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rql801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

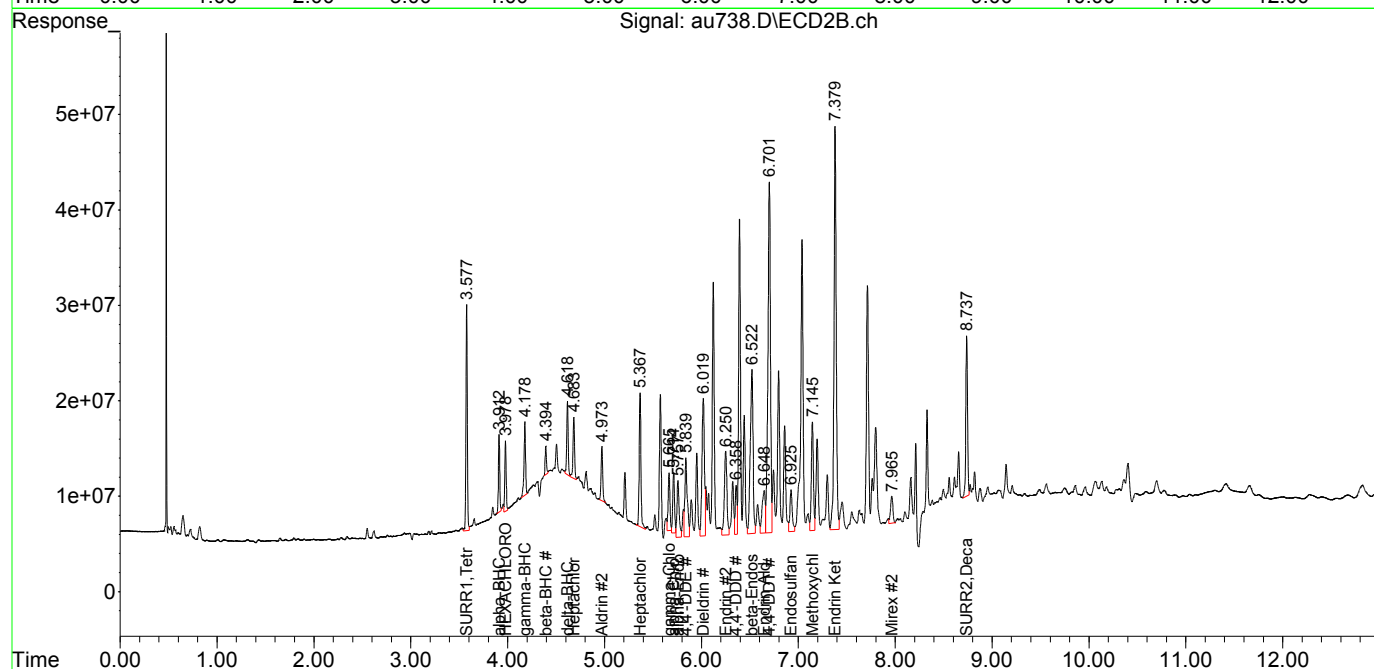
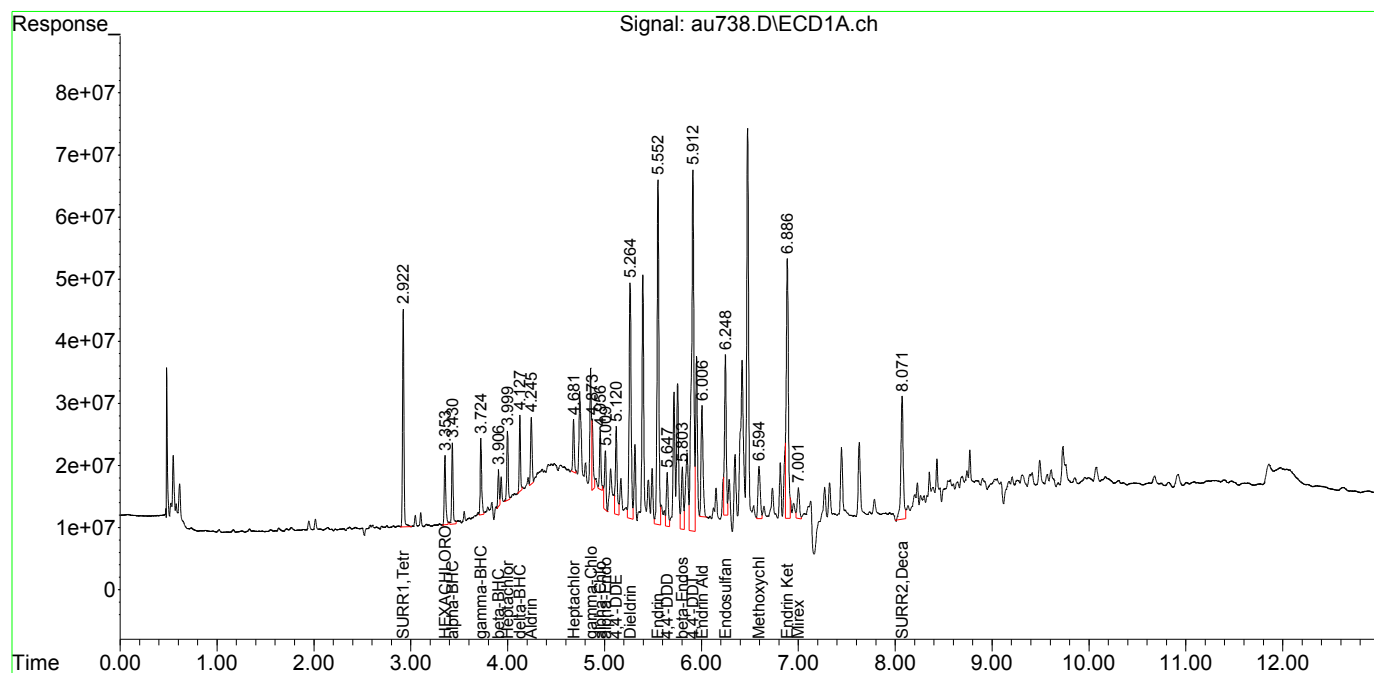
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.578	352.7E6	233.0E6	15.135	15.107
Spiked Amount	100.000 Range	30 - 150	Recovery	=	15.13%#	15.11%#
26) S SURR2,Dec...	8.071	8.737	331.5E6	202.5E6	22.549	18.351m
Spiked Amount	100.000 Range	30 - 150	Recovery	=	22.55%#	18.35%#
Target Compounds						
2) TC HEXACHLOR...	3.354	3.978	120.7E6	72521937	5.999	4.995m
3) tc alpha-BHC	3.430	3.912	130.1E6	74667773	4.122	3.466m
4) tcm gamma-BHC (L	3.724	4.178	124.9E6	83220424	4.579m	4.261m
5) tcm Heptachlor	3.999	4.683	112.6E6	75083256	4.291m	3.916m
6) tcm Aldrin	4.245	4.973	119.0E6	66650693	4.746m	3.814m
7) tc beta-BHC	3.906	4.394	53101560	28265834	4.095m	3.072m
8) tc delta-BHC	4.127	4.618	108.2E6	80033440	4.102m	4.096m
9) tc Heptachlor E	4.681	5.368	90296231	172.8E6	4.129m	10.466 #
10) tc alpha-Endosu	5.009	5.758	110.3E6	92496426	5.277	6.262
11) tc gamma-Chlord	4.872	5.665	107.0E6	78592677	4.823m	4.776m
12) tc alpha-Chlord	4.956	5.714	101.9E6	81885026	4.784m	5.076m
13) tc 4,4'-DDE	5.121	5.839	180.9E6	143.7E6	8.660	9.528
14) tcm Dieldrin	5.264	6.020	536.5E6	250.8E6	23.694	15.491 #
15) tcm Endrin	5.552	6.251	711.0E6	165.0E6	36.038	11.245 #
17) tc beta-Endosul	5.804	6.522	142.7E6	345.6E6	7.360	24.138 #
18) tc 4,4'-DDD	5.647	6.359	112.4E6	63056345	6.039	4.835
19) tcm 4,4'-DDT	5.912	6.701	999.4E6	664.7E6	55.438	48.595
20) tc Endrin Aldeh	6.006	6.649	249.9E6	99415796	14.896m	8.671 #
21) tc Endosulfan S	6.248	6.925	325.9E6	73384761	18.010m	5.615 #
22) tc Methoxychlor	6.594	7.145	138.2E6	171.6E6	15.451m	23.118 #
24) tc Endrin Keton	6.886	7.379	638.6E6	686.0E6	32.745m	45.047 #
25) tc Mirex	7.001	7.965	78950225	48828654	5.247m	4.610
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au738.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 8:11 pm  
Operator : m.pedro  
Sample : rq1801536-05|5.0  
Misc : 308673  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 09:03:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au722.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 3:19 pm  
 Operator : m.pedro  
 Sample : CCV46  
 Misc : PEST 100PPB  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 23 15:35:02 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	23.305	23.111 E6	0.8	117	0.00
2 TC	HEXACHLOROBENZENE	20.118	19.162 E6	4.8	116	0.00
3 tc	alpha-BHC	31.565	34.117 E6	-8.1	117	0.00
4 tcm	gamma-BHC (L	27.285	28.096 E6	-3.0	116	0.00
5 tcm	Heptachlor	26.240	26.452 E6	-0.8	115	0.00
6 tcm	Aldrin	25.073	24.969 E6	0.4	111	0.00
7 tc	beta-BHC	12.967	11.882 E6	8.4	113	0.00
8 TC	delta-BHC	26.369	27.943 E6	-6.0	116	0.00
9 tc	Heptachlor E	21.866	20.639 E6	5.6	112	0.00
10 tc	alpha-Endosu	20.912	19.429 E6	7.1	109	0.00
11 tc	gamma-Chlord	22.189	21.880 E6	1.4	113	0.00
12 tc	alpha-Chlord	21.296	20.950 E6	1.6	111	0.00
13 tc	4,4'-DDE	20.895	21.384 E6	-2.3	115	0.00
14 tcm	Dieldrin	22.642	21.721 E6	4.1	109	0.00
15 tcm	Endrin	19.730	19.851 E6	-0.6	115	0.00
17 tc	beta-Endosul	19.385	18.144 E6	6.4	107	0.00
18 tc	4,4'-DDD	18.616	17.369 E6	6.7	112	0.00
19 tcm	4,4'-DDT	18.027	18.782 E6	-4.2	117	0.00
20 tc	Endrin Aldeh	16.778	15.708 E6	6.4	109	0.00
21 tc	Endosulfan S	18.096	17.487 E6	3.4	113	0.00
22 tc	Methoxychlor	8.943	8.747 E6	2.2	118	0.00
24 tc	Endrin Keton	19.501	18.239 E6	6.5	109	-0.01
25 tc	Mirex	15.047	13.112 E6	12.9	107	-0.01
26 S	SURR2,Decachlorobiphenyl	14.703	12.086 E6	17.8#	98	-0.01

Signal #2

1 S	SURR1,Tetrac	15.422	15.852 E6	-2.8	117	0.00
2 TC	HEXACHLOROBENZENE	14.519	14.363 E6	1.1	116	0.00
3 tc	alpha-BHC	21.543	24.377 E6	-13.2	117	0.00
4 tcm	gamma-BHC (L	19.533	21.427 E6	-9.7	117	0.00
5 tcm	Heptachlor	19.173	20.118 E6	-4.9	115	0.00
6 tcm	Aldrin	17.476	19.043 E6	-9.0	117	0.00
7 tc	beta-BHC	9.200	9.166 E6	0.4	116	0.00
8 tc	delta-BHC	19.540	22.104 E6	-13.1	118	0.00
9 tc	Heptachlor E	16.506	17.074 E6	-3.4	116	0.00
10 tc	alpha-Endosu	14.770	15.047 E6	-1.9	115	0.00
11 tc	gamma-Chlord	16.455	17.646 E6	-7.2	118	0.00
12 tc	alpha-Chlord	16.132	16.929 E6	-4.9	118	0.00
13 tc	4,4'-DDE	15.080	16.867 E6	-11.9	121	0.00
14 tcm	Dieldrin	16.190	17.332 E6	-7.1	117	0.00
15 tcm	Endrin	14.674	16.119 E6	-9.8	121	0.00
17 tc	beta-Endosul	14.318	14.649 E6	-2.3	115	0.00
18 tc	4,4'-DDD	13.041	14.480 E6	-11.0	119	0.00

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au722.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 3:19 pm  
 Operator : m.pedro  
 Sample : CCV46  
 Misc : PEST 100PPB  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 23 15:35:02 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
19 tcm 4,4'-DDT	13.679	15.003 E6	-9.7	118	0.00
20 tc Endrin Aldehy	11.465	11.973 E6	-4.4	119	0.00
21 tc Endosulfan S	13.069	13.345 E6	-2.1	118	-0.01
22 tc Methoxychlor	7.421	7.321 E6	1.3	116	-0.01
24 tc Endrin Keton	15.228	15.317 E6	-0.6	114	-0.01
25 tc Mirex	10.592	9.699 E6	8.4	113	-0.01
26 S SURR2,Decachlorobiphenyl	11.035	9.257 E6	16.1#	103	-0.02

Evaluate Continuing Calibration Report - Not Founds

16 tc KEPONE	9.906	0.000 E6	100.0#	0#	-5.67#
23 tc FAMPHUR	12.441	0.000 E6	100.0#	0#	-6.11#
27 L8C Toxaphene	243.964	0.000 E3	100.0#	0#	-5.39#
28 L8C Toxaphene{2}	264.751	0.000 E3	100.0#	0#	-5.58#
29 L8C Toxaphene{3}	515.929	0.000 E3	100.0#	0#	-6.18#
30 L8C Toxaphene{4}	331.257	0.000 E3	100.0#	0#	-6.77#
31 L8C Toxaphene{5}	641.845	0.000 E3	100.0#	0#	-7.02#
32 L9C Chlordane	795.640	0.000 E3	100.0#	0#	-3.86#
33 L9C Chlordane{2}	1.626	0.000 E6	100.0#	0#	-4.00#
34 L9C Chlordane{3}	2.179	0.000 E6	100.0#	0#	-4.96#
35 L9C Chlordane{4}	518.465	0.000 E3	100.0#	0#	-5.59#
36 L9C Chlordane{5}	817.176	0.000 E3	100.0#	0#	-5.84#
37 L10CDechlorane{1}	3.513	0.000 E6	100.0#	0#	-10.36#
38 L10CDechlorane{2}	12.189	0.000 E6	100.0#	0#	-10.73#

Signal #2

16 tc KEPONE	2.265	0.000 E6	100.0#	0#	-6.56#
23 tc FAMPHUR	8.228	0.000 E6	100.0#	0#	-6.46#
27 L8C Toxaphene	199.214	0.000 E3	100.0#	0#	-6.37#
28 L8C Toxaphene{2}	424.546	0.000 E3	100.0#	0#	-6.85#
29 L8C Toxaphene{3}	326.369	0.000 E3	100.0#	0#	-7.11#
30 L8C Toxaphene{4}	268.182	0.000 E3	100.0#	0#	-7.16#
31 L8C Toxaphene{5}	415.474	0.000 E3	100.0#	0#	-7.84#
32 L9C Chlordane	646.672	0.000 E3	100.0#	0#	-4.51#
33 L9C Chlordane{2}	1.109	0.000 E6	100.0#	0#	-4.69#
34 L9C Chlordane{3}	577.229	0.000 E3	100.0#	0#	-4.98#
35 L9C Chlordane{4}	1.519	0.000 E6	100.0#	0#	-5.72#
36 L9C Chlordane{5}	1.161	0.000 E6	100.0#	0#	-5.76#
37 L10CDechlorane{1}	1.910	0.000 E6	100.0#	0#	-11.92#
38 L10CDechlorane{2}	6.467	0.000 E6	100.0#	0#	-12.40#

(#) = Out of Range

SPCC's out = 0 CCC's out = 28



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au722.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:19 pm  
Operator : m.pedro  
Sample : CCV46  
Misc : PEST 100PPB  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 23 15:35:02 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

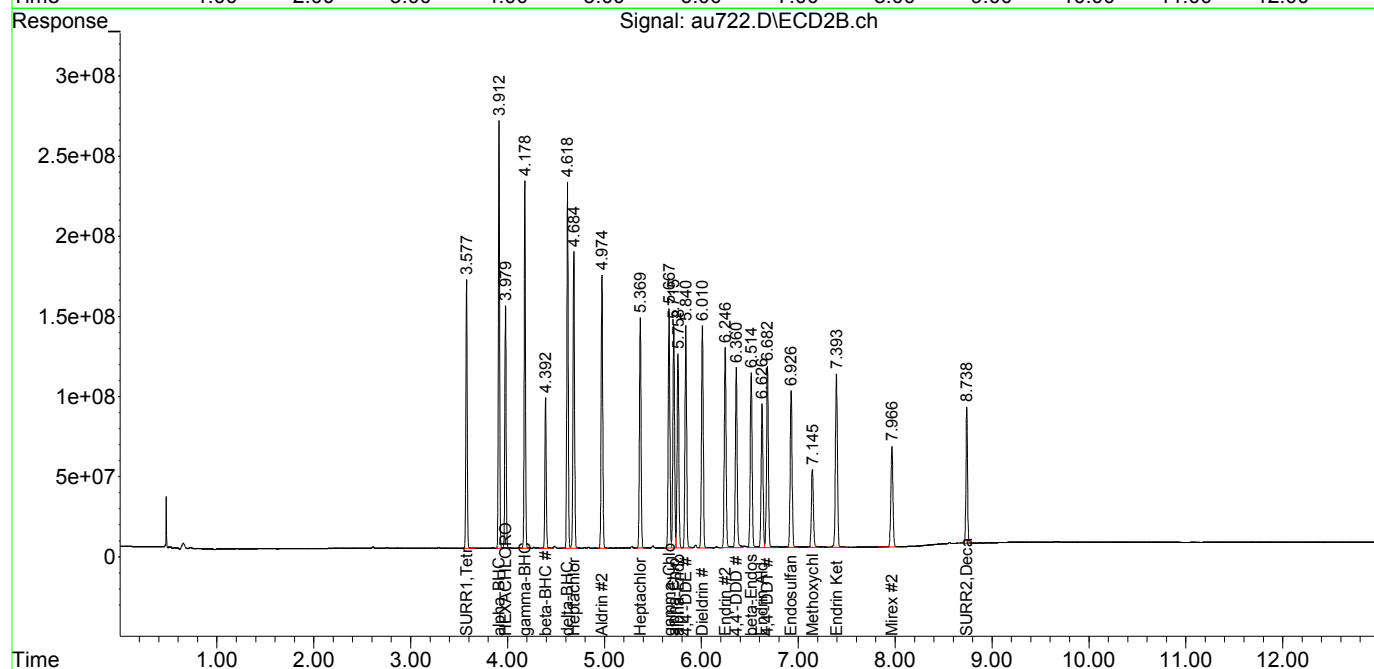
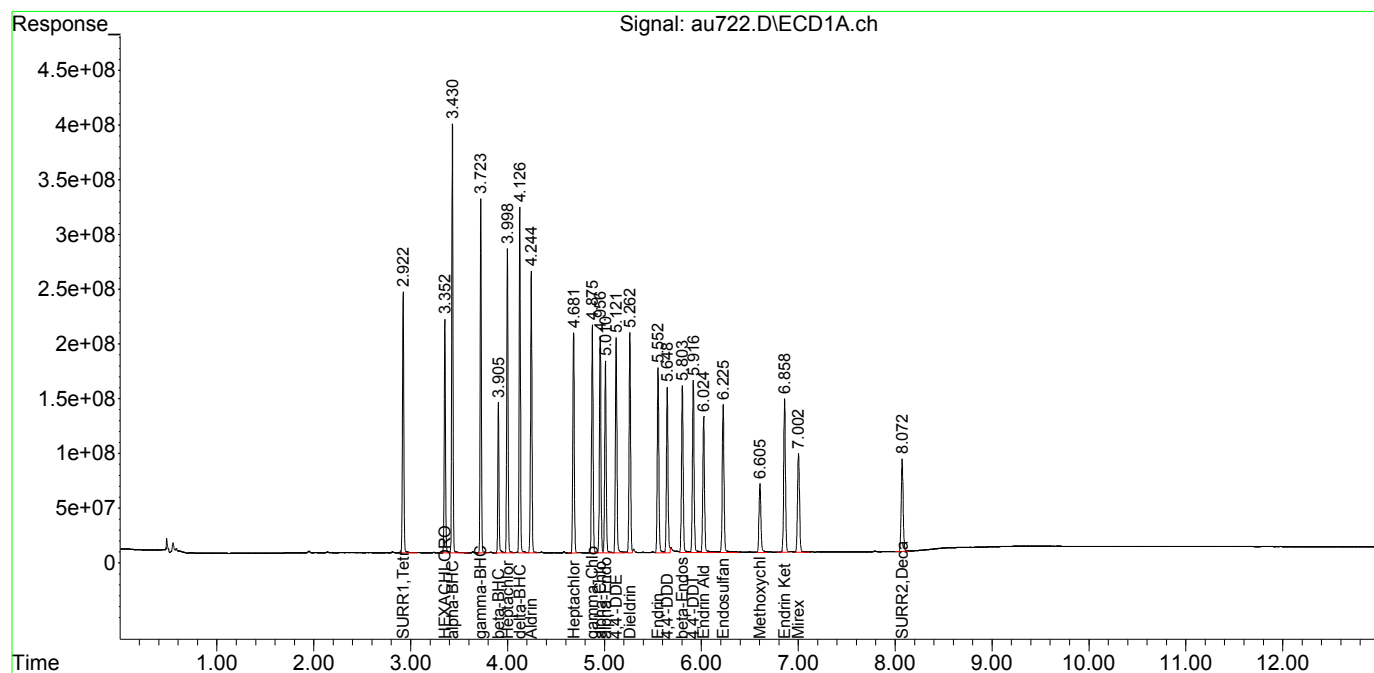
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.577	2311.1E6	1585.2E6	99.166	102.793
Spiked Amount	100.000 Range	30 - 150	Recovery =	99.17%	102.79%	
26) S SURR2,Dec...	8.072	8.739	1208.6E6	925.7E6	82.198	83.883
Spiked Amount	100.000 Range	30 - 150	Recovery =	82.20%	83.88%	
Target Compounds						
2) TC HEXACHLOR...	3.353	3.979	1916.2E6	1436.3E6	95.249	98.925
3) tc alpha-BHC	3.431	3.912	3411.7E6	2437.7E6	108.082	113.156
4) tcm gamma-BHC (L	3.724	4.179	2809.6E6	2142.7E6	102.973	109.697
5) tcm Heptachlor	3.999	4.684	2645.2E6	2011.8E6	100.806	104.929
6) tcm Aldrin	4.245	4.974	2496.9E6	1904.3E6	99.584	108.968
7) tc beta-BHC	3.905	4.393	1188.2E6	916.6E6	91.634	99.626
8) tc delta-BHC	4.127	4.619	2794.3E6	2210.4E6	105.969	113.124
9) tc Heptachlor E	4.682	5.370	2063.9E6	1707.4E6	94.389	103.442
10) tc alpha-Endosu	5.011	5.759	1942.9E6	1504.7E6	92.911	101.876
11) tc gamma-Chlord	4.875	5.667	2188.0E6	1764.6E6	98.608	107.238
12) tc alpha-Chlord	4.957	5.715	2095.0E6	1692.9E6	98.376	104.939
13) tc 4,4'-DDE	5.121	5.840	2138.4E6	1686.7E6	102.339	111.846
14) tcm Dieldrin	5.262	6.011	2172.1E6	1733.2E6	95.933	107.054
15) tcm Endrin	5.553	6.246	1985.1E6	1611.9E6	100.613	109.847
17) tc beta-Endosul	5.804	6.514	1814.4E6	1464.9E6	93.599	102.310
18) tc 4,4'-DDD	5.648	6.361	1736.9E6	1448.0E6	93.303	111.030
19) tcm 4,4'-DDT	5.916	6.682	1878.2E6	1500.3E6	104.189	109.677
20) tc Endrin Aldeh	6.024	6.627	1570.8E6	1197.3E6	93.627	104.427
21) tc Endosulfan S	6.225	6.926	1748.7E6	1334.5E6	96.632	102.112
22) tc Methoxychlor	6.605	7.146	874.7E6	732.1E6	97.813	98.656
24) tc Endrin Keton	6.859	7.393	1823.9E6	1531.7E6	93.529	100.584
25) tc Mirex	7.002	7.966	1311.2E6	969.9E6	87.138	91.563
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au722.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 3:19 pm  
Operator : m.pedro  
Sample : CCV46  
Misc : PEST 100PPB  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 23 15:35:02 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au733.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 6:41 pm  
 Operator : m.pedro  
 Sample : ccv47  
 Misc : pest 100ppb  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 08:58:52 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	23.305	23.494 E6	-0.8	119	0.00
2 TC	HEXACHLOROBENZENE	20.118	19.641 E6	2.4	119	0.00
3 tc	alpha-BHC	31.565	34.913 E6	-10.6	120	0.00
4 tcm	gamma-BHC (L	27.285	28.879 E6	-5.8	119	0.00
5 tcm	Heptachlor	26.240	27.079 E6	-3.2	118	0.00
6 tcm	Aldrin	25.073	25.643 E6	-2.3	114	0.00
7 tc	beta-BHC	12.967	12.237 E6	5.6	116	0.00
8 TC	delta-BHC	26.369	28.890 E6	-9.6	120	0.00
9 tc	Heptachlor E	21.866	21.163 E6	3.2	115	0.00
10 tc	alpha-Endosu	20.912	19.929 E6	4.7	112	0.00
11 tc	gamma-Chlord	22.189	22.436 E6	-1.1	115	0.00
12 tc	alpha-Chlord	21.296	21.619 E6	-1.5	115	0.00
13 tc	4,4'-DDE	20.895	21.747 E6	-4.1	117	0.00
14 tcm	Dieldrin	22.642	22.520 E6	0.5	113	0.00
15 tcm	Endrin	19.730	20.675 E6	-4.8	120	0.00
17 tc	beta-Endosul	19.385	19.048 E6	1.7	113	0.00
18 tc	4,4'-DDD	18.616	18.410 E6	1.1	118	0.00
19 tcm	4,4'-DDT	18.027	19.124 E6	-6.1	119	0.00
20 tc	Endrin Aldeh	16.778	16.209 E6	3.4	112	0.00
21 tc	Endosulfan S	18.096	18.141 E6	-0.2	117	-0.01
22 tc	Methoxychlor	8.943	9.025 E6	-0.9	122	-0.01
24 tc	Endrin Keton	19.501	19.201 E6	1.5	114	-0.01
25 tc	Mirex	15.047	13.635 E6	9.4	111	-0.01
26 S	SURR2,Decachlorobiphenyl	14.703	12.551 E6	14.6	102	-0.01

Signal #2

1 S	SURR1,Tetrac	15.422	16.306 E6	-5.7	120	0.00
2 TC	HEXACHLOROBENZENE	14.519	15.008 E6	-3.4	121	0.00
3 tc	alpha-BHC	21.543	25.145 E6	-16.7#	121	0.00
4 tcm	gamma-BHC (L	19.533	22.207 E6	-13.7	121	0.00
5 tcm	Heptachlor	19.173	20.998 E6	-9.5	120	0.00
6 tcm	Aldrin	17.476	19.831 E6	-13.5	122	0.00
7 tc	beta-BHC	9.200	9.559 E6	-3.9	120	0.00
8 tc	delta-BHC	19.540	23.080 E6	-18.1#	124	0.00
9 tc	Heptachlor E	16.506	17.885 E6	-8.4	122	0.00
10 tc	alpha-Endosu	14.770	15.847 E6	-7.3	121	0.00
11 tc	gamma-Chlord	16.455	18.568 E6	-12.8	124	0.00
12 tc	alpha-Chlord	16.132	17.819 E6	-10.5	124	0.00
13 tc	4,4'-DDE	15.080	17.482 E6	-15.9#	125	0.00
14 tcm	Dieldrin	16.190	18.259 E6	-12.8	123	0.00
15 tcm	Endrin	14.674	17.003 E6	-15.9#	127	0.00
17 tc	beta-Endosul	14.318	15.343 E6	-7.2	120	0.00
18 tc	4,4'-DDD	13.041	15.169 E6	-16.3#	125	0.00



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au733.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 6:41 pm  
Operator : m.pedro  
Sample : ccv47  
Misc : pest 100ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 08:58:52 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
19 tcm 4,4'-DDT	13.679	15.475 E6	-13.1	122	0.00
20 tc Endrin Aldehy	11.465	12.443 E6	-8.5	124	0.00
21 tc Endosulfan S	13.069	13.882 E6	-6.2	122	-0.01
22 tc Methoxychlor	7.421	7.474 E6	-0.7	119	-0.01
24 tc Endrin Keton	15.228	15.962 E6	-4.8	118	-0.01
25 tc Mirex	10.592	10.143 E6	4.2	119	-0.01
26 S SURR2,Decachlorobiphenyl	11.035	9.694 E6	12.2	108	-0.02

Evaluate Continuing Calibration Report - Not Found

16 tc KEPONE	9.906	0.000 E6	100.0#	0#	-5.67#
23 tc FAMPHUR	12.441	0.000 E6	100.0#	0#	-6.11#
27 L8C Toxaphene	243.964	0.000 E3	100.0#	0#	-5.39#
28 L8C Toxaphene{2}	264.751	0.000 E3	100.0#	0#	-5.58#
29 L8C Toxaphene{3}	515.929	0.000 E3	100.0#	0#	-6.18#
30 L8C Toxaphene{4}	331.257	0.000 E3	100.0#	0#	-6.77#
31 L8C Toxaphene{5}	641.845	0.000 E3	100.0#	0#	-7.02#
32 L9C Chlordane	795.640	0.000 E3	100.0#	0#	-3.86#
33 L9C Chlordane{2}	1.626	0.000 E6	100.0#	0#	-4.00#
34 L9C Chlordane{3}	2.179	0.000 E6	100.0#	0#	-4.96#
35 L9C Chlordane{4}	518.465	0.000 E3	100.0#	0#	-5.59#
36 L9C Chlordane{5}	817.176	0.000 E3	100.0#	0#	-5.84#
37 L10CDechlorane{1}	3.513	0.000 E6	100.0#	0#	-10.36#
38 L10CDechlorane{2}	12.189	0.000 E6	100.0#	0#	-10.73#

Signal #2

16 tc KEPONE	2.265	0.000 E6	100.0#	0#	-6.56#
23 tc FAMPHUR	8.228	0.000 E6	100.0#	0#	-6.46#
27 L8C Toxaphene	199.214	0.000 E3	100.0#	0#	-6.37#
28 L8C Toxaphene{2}	424.546	0.000 E3	100.0#	0#	-6.85#
29 L8C Toxaphene{3}	326.369	0.000 E3	100.0#	0#	-7.11#
30 L8C Toxaphene{4}	268.182	0.000 E3	100.0#	0#	-7.16#
31 L8C Toxaphene{5}	415.474	0.000 E3	100.0#	0#	-7.84#
32 L9C Chlordane	646.672	0.000 E3	100.0#	0#	-4.51#
33 L9C Chlordane{2}	1.109	0.000 E6	100.0#	0#	-4.69#
34 L9C Chlordane{3}	577.229	0.000 E3	100.0#	0#	-4.98#
35 L9C Chlordane{4}	1.519	0.000 E6	100.0#	0#	-5.72#
36 L9C Chlordane{5}	1.161	0.000 E6	100.0#	0#	-5.76#
37 L10CDechlorane{1}	1.910	0.000 E6	100.0#	0#	-11.92#
38 L10CDechlorane{2}	6.467	0.000 E6	100.0#	0#	-12.40#

(#) = Out of Range

SPCC's out = 0 CCC's out = 33



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au733.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 6:41 pm  
 Operator : m.pedro  
 Sample : ccv47  
 Misc : pest 100ppb  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 08:58:52 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

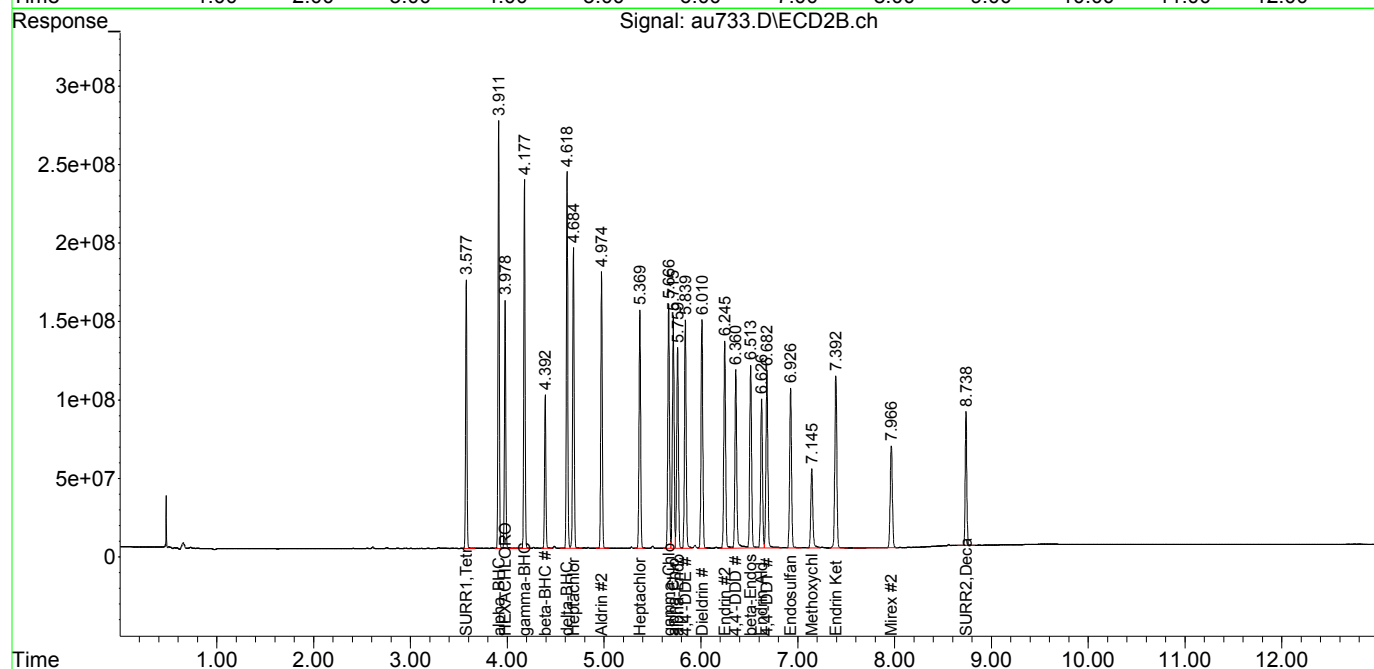
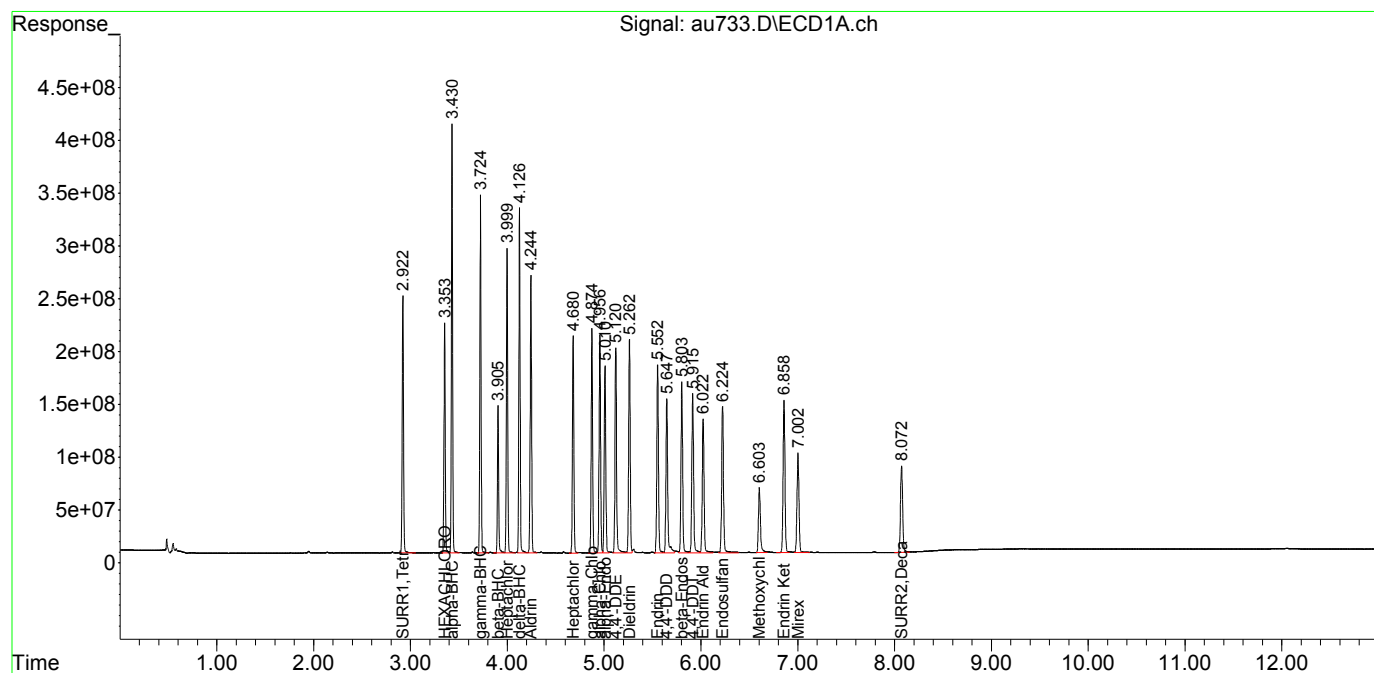
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.922	3.577	2349.4E6	1630.6E6	100.810	105.733
Spiked Amount	100.000	Range	30 - 150	Recovery =	100.81%	105.73%
26) S SURR2,Dec...	8.072	8.738	1255.1E6	969.4E6	85.364	87.846
Spiked Amount	100.000	Range	30 - 150	Recovery =	85.36%	87.85%
Target Compounds						
2) TC HEXACHLOR...	3.353	3.978	1964.1E6	1500.8E6	97.630	103.367
3) tc alpha-BHC	3.430	3.912	3491.3E6	2514.5E6	110.604	116.722
4) tcm gamma-BHC (L	3.724	4.178	2887.9E6	2220.7E6	105.844	113.692
5) tcm Heptachlor	3.999	4.684	2707.9E6	2099.8E6	103.195	109.518
6) tcm Aldrin	4.244	4.974	2564.3E6	1983.1E6	102.274	113.478
7) tc beta-BHC	3.905	4.393	1223.7E6	955.9E6	94.368	103.902
8) tc delta-BHC	4.127	4.618	2889.0E6	2308.0E6	109.558	118.119
9) tc Heptachlor E	4.681	5.369	2116.3E6	1788.5E6	96.782	108.350
10) tc alpha-Endosu	5.010	5.759	1992.9E6	1584.7E6	95.301	107.287
11) tc gamma-Chlord	4.874	5.667	2243.6E6	1856.8E6	101.114	112.842
12) tc alpha-Chlord	4.956	5.715	2161.9E6	1781.9E6	101.517	110.458
13) tc 4,4'-DDE	5.121	5.839	2174.7E6	1748.2E6	104.079	115.925
14) tcm Dieldrin	5.262	6.011	2252.0E6	1825.9E6	99.462	112.775
15) tcm Endrin	5.553	6.246	2067.5E6	1700.3E6	104.790	115.872
17) tc beta-Endosul	5.803	6.514	1904.8E6	1534.3E6	98.262	107.158
18) tc 4,4'-DDD	5.647	6.360	1841.0E6	1516.9E6	98.895	116.319
19) tcm 4,4'-DDT	5.915	6.682	1912.4E6	1547.5E6	106.089	113.132
20) tc Endrin Aldeh	6.023	6.627	1620.9E6	1244.3E6	96.614	108.528
21) tc Endosulfan S	6.224	6.926	1814.1E6	1388.2E6	100.246	106.225
22) tc Methoxychlor	6.604	7.145	902.5E6	747.4E6	100.924	100.710
24) tc Endrin Keton	6.858	7.393	1920.1E6	1596.2E6	98.461	104.817
25) tc Mirex	7.003	7.966	1363.5E6	1014.3E6	90.613	95.755
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au733.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 6:41 pm  
Operator : m.pedro  
Sample : ccv47  
Misc : pest 100ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 08:58:52 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : STx-CLPII  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au741.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 9:05 pm  
 Operator : m.pedro  
 Sample : ccv48  
 Misc : pest 100ppb  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 08:59:31 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S	SURR1,Tetrac	23.305	25.646 E6	-10.0	130	0.00
2 TC	HEXACHLOROENZENE	20.118	21.521 E6	-7.0	131	0.00
3 tc	alpha-BHC	31.565	38.308 E6	-21.4#	132	0.00
4 tcm	gamma-BHC (L	27.285	31.693 E6	-16.2#	131	0.00
5 tcm	Heptachlor	26.240	29.142 E6	-11.1	127	0.00
6 tcm	Aldrin	25.073	27.450 E6	-9.5	123	0.00
7 tc	beta-BHC	12.967	13.399 E6	-3.3	127	0.00
8 TC	delta-BHC	26.369	31.607 E6	-19.9#	131	0.00
9 tc	Heptachlor E	21.866	22.196 E6	-1.5	120	0.00
10 tc	alpha-Endosu	20.912	20.484 E6	2.0	115	0.00
11 tc	gamma-Chlord	22.189	23.098 E6	-4.1	119	0.00
12 tc	alpha-Chlord	21.296	22.190 E6	-4.2	118	0.00
13 tc	4,4'-DDE	20.895	21.821 E6	-4.4	118	0.00
14 tcm	Dieldrin	22.642	22.962 E6	-1.4	116	0.00
15 tcm	Endrin	19.730	20.901 E6	-5.9	121	0.00
17 tc	beta-Endosul	19.385	18.981 E6	2.1	112	0.00
18 tc	4,4'-DDD	18.616	17.303 E6	7.1	111	0.00
19 tcm	4,4'-DDT	18.027	18.222 E6	-1.1	114	0.00
20 tc	Endrin Aldeh	16.778	16.217 E6	3.3	112	0.00
21 tc	Endosulfan S	18.096	17.763 E6	1.8	115	0.00
22 tc	Methoxychlor	8.943	8.622 E6	3.6	116	-0.01
24 tc	Endrin Keton	19.501	18.756 E6	3.8	112	-0.01
25 tc	Mirex	15.047	13.187 E6	12.4	107	-0.01
26 S	SURR2,Decachlorobiphenyl	14.703	12.046 E6	18.1#	98	-0.01

Signal #2

1 S	SURR1,Tetrac	15.422	17.616 E6	-14.2	130	0.00
2 TC	HEXACHLOROENZENE	14.519	16.217 E6	-11.7	131	0.00
3 tc	alpha-BHC	21.543	27.348 E6	-26.9#	131	0.00
4 tcm	gamma-BHC (L	19.533	24.161 E6	-23.7#	131	0.00
5 tcm	Heptachlor	19.173	22.276 E6	-16.2#	127	0.00
6 tcm	Aldrin	17.476	20.807 E6	-19.1#	128	0.00
7 tc	beta-BHC	9.200	10.346 E6	-12.5	130	0.00
8 tc	delta-BHC	19.540	24.873 E6	-27.3#	133	0.00
9 tc	Heptachlor E	16.506	18.407 E6	-11.5	125	0.00
10 tc	alpha-Endosu	14.770	16.011 E6	-8.4	122	0.00
11 tc	gamma-Chlord	16.455	18.703 E6	-13.7	125	0.00
12 tc	alpha-Chlord	16.132	17.942 E6	-11.2	125	0.00
13 tc	4,4'-DDE	15.080	17.200 E6	-14.1	123	0.00
14 tcm	Dieldrin	16.190	18.337 E6	-13.3	123	0.00
15 tcm	Endrin	14.674	17.024 E6	-16.0#	128	0.00
17 tc	beta-Endosul	14.318	15.181 E6	-6.0	119	0.00
18 tc	4,4'-DDD	13.041	14.681 E6	-12.6	121	-0.01

Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au741.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 9:05 pm  
Operator : m.pedro  
Sample : ccv48  
Misc : pest 100ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 08:59:31 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
19 tcm 4,4'-DDT	13.679	14.917 E6	-9.1	118	-0.01
20 tc Endrin Aldehy	11.465	12.294 E6	-7.2	123	-0.01
21 tc Endosulfan S	13.069	13.684 E6	-4.7	121	-0.01
22 tc Methoxychlor	7.421	7.240 E6	2.4	115	-0.01
23 tc FAMPHUR	8.228	0.047 E6	99.4#	1#	-0.02
24 tc Endrin Keton	15.228	15.485 E6	-1.7	115	-0.01
25 tc Mirex	10.592	9.687 E6	8.5	113	-0.01
26 S SURR2,Decachlorobiphenyl	11.035	9.158 E6	17.0#	102	-0.02

Evaluate Continuing Calibration Report - Not Found

16 tc KEPONE	9.906	0.000 E6	100.0#	0#	-5.67#
23 tc FAMPHUR	12.441	0.000 E6	100.0#	0#	-6.11#
27 L8C Toxaphene	243.964	0.000 E3	100.0#	0#	-5.39#
28 L8C Toxaphene{2}	264.751	0.000 E3	100.0#	0#	-5.58#
29 L8C Toxaphene{3}	515.929	0.000 E3	100.0#	0#	-6.18#
30 L8C Toxaphene{4}	331.257	0.000 E3	100.0#	0#	-6.77#
31 L8C Toxaphene{5}	641.845	0.000 E3	100.0#	0#	-7.02#
32 L9C Chlordane	795.640	0.000 E3	100.0#	0#	-3.86#
33 L9C Chlordane{2}	1.626	0.000 E6	100.0#	0#	-4.00#
34 L9C Chlordane{3}	2.179	0.000 E6	100.0#	0#	-4.96#
35 L9C Chlordane{4}	518.465	0.000 E3	100.0#	0#	-5.59#
36 L9C Chlordane{5}	817.176	0.000 E3	100.0#	0#	-5.84#
37 L10CDechlorane{1}	3.513	0.000 E6	100.0#	0#	-10.36#
38 L10CDechlorane{2}	12.189	0.000 E6	100.0#	0#	-10.73#

Signal #2

16 tc KEPONE	2.265	0.000 E6	100.0#	0#	-6.56#
27 L8C Toxaphene	199.214	0.000 E3	100.0#	0#	-6.37#
28 L8C Toxaphene{2}	424.546	0.000 E3	100.0#	0#	-6.85#
29 L8C Toxaphene{3}	326.369	0.000 E3	100.0#	0#	-7.11#
30 L8C Toxaphene{4}	268.182	0.000 E3	100.0#	0#	-7.16#
31 L8C Toxaphene{5}	415.474	0.000 E3	100.0#	0#	-7.84#
32 L9C Chlordane	646.672	0.000 E3	100.0#	0#	-4.51#
33 L9C Chlordane{2}	1.109	0.000 E6	100.0#	0#	-4.69#
34 L9C Chlordane{3}	577.229	0.000 E3	100.0#	0#	-4.98#
35 L9C Chlordane{4}	1.519	0.000 E6	100.0#	0#	-5.72#
36 L9C Chlordane{5}	1.161	0.000 E6	100.0#	0#	-5.76#
37 L10CDechlorane{1}	1.910	0.000 E6	100.0#	0#	-11.92#
38 L10CDechlorane{2}	6.467	0.000 E6	100.0#	0#	-12.40#

(#) = Out of Range

SPCC's out = 0 CCC's out = 37



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
 Data File : au741.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 23 Feb 2018 9:05 pm  
 Operator : m.pedro  
 Sample : ccv48  
 Misc : pest 100ppb  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Feb 26 08:59:31 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 15 15:55:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.923	3.577	2564.6E6	1761.6E6	110.046	114.226
Spiked Amount	100.000 Range	30 - 150	Recovery =	110.05%	114.23%	
26) S SURR2,Dec...	8.072	8.738	1204.6E6	915.8E6	81.927	82.992
Spiked Amount	100.000 Range	30 - 150	Recovery =	81.93%	82.99%	
Target Compounds						
2) TC HEXACHLOR...	3.354	3.979	2152.1E6	1621.7E6	106.975	111.697
3) tc alpha-BHC	3.431	3.912	3830.8E6	2734.8E6	121.361	126.946
4) tcm gamma-BHC (L	3.724	4.178	3169.3E6	2416.1E6	116.157	123.695
5) tcm Heptachlor	3.998	4.684	2914.2E6	2227.6E6	111.058	116.185
6) tcm Aldrin	4.245	4.974	2745.0E6	2080.7E6	109.481	119.061
7) tc beta-BHC	3.906	4.393	1339.9E6	1034.6E6	103.333	112.451
8) tc delta-BHC	4.127	4.618	3160.7E6	2487.3E6	119.862	127.295
9) tc Heptachlor E	4.681	5.369	2219.6E6	1840.7E6	101.507	111.517
10) tc alpha-Endosu	5.010	5.759	2048.4E6	1601.1E6	97.956	108.396
11) tc gamma-Chlord	4.874	5.666	2309.8E6	1870.3E6	104.098	113.660
12) tc alpha-Chlord	4.956	5.714	2219.0E6	1794.2E6	104.198	111.223
13) tc 4,4'-DDE	5.121	5.839	2182.1E6	1720.0E6	104.429	114.060
14) tcm Dieldrin	5.261	6.010	2296.2E6	1833.7E6	101.413	113.261
15) tcm Endrin	5.553	6.246	2090.1E6	1702.4E6	105.934	116.014
17) tc beta-Endosul	5.803	6.514	1898.1E6	1518.1E6	97.917	106.030
18) tc 4,4'-DDD	5.647	6.360	1730.3E6	1468.1E6	92.945	112.575
19) tcm 4,4'-DDT	5.915	6.682	1822.2E6	1491.7E6	101.083	109.048
20) tc Endrin Aldeh	6.023	6.626	1621.7E6	1229.4E6	96.660	107.230
21) tc Endosulfan S	6.225	6.926	1776.3E6	1368.4E6	98.161	104.703
22) tc Methoxychlor	6.604	7.145	862.2E6	724.0E6	96.418	97.569
23) tc FAMPHUR	0.000	6.441	0	23285182	N.D.	2.830 #
24) tc Endrin Keton	6.859	7.393	1875.6E6	1548.5E6	96.179	101.686
25) tc Mirex	7.003	7.966	1318.7E6	968.7E6	87.635	91.454
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

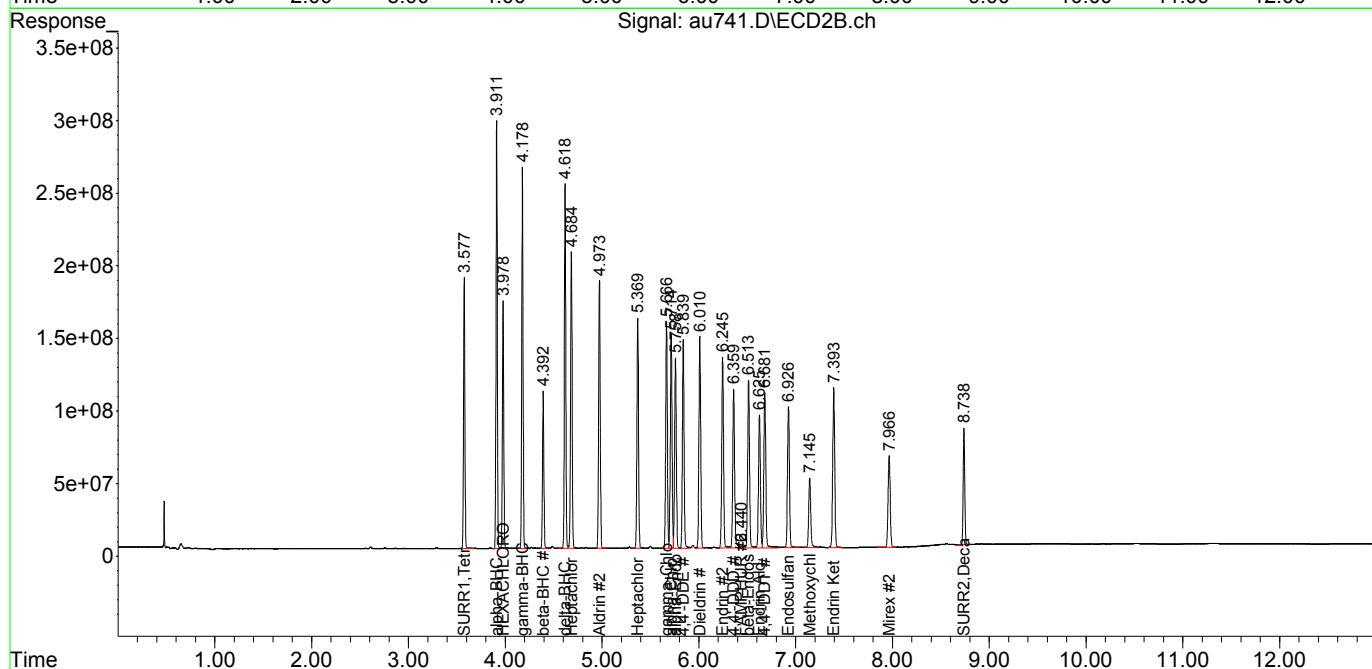
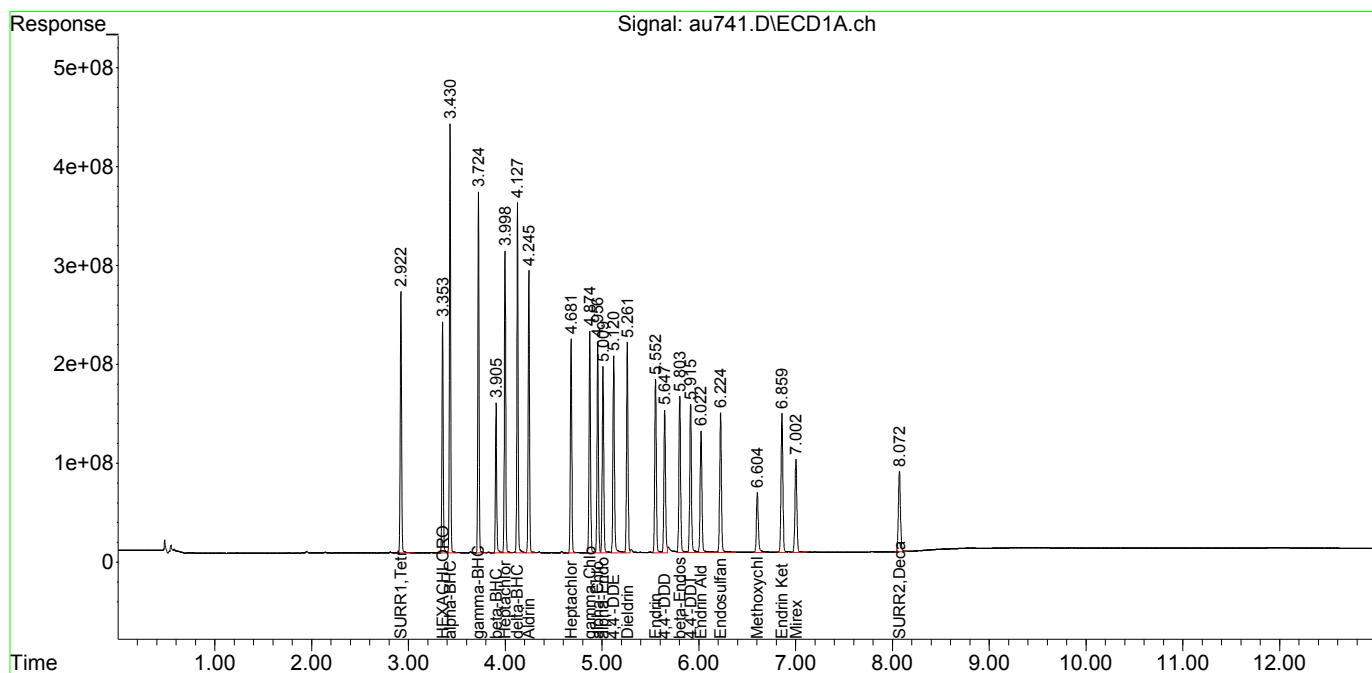
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\022318\  
Data File : au741.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 23 Feb 2018 9:05 pm  
Operator : m.pedro  
Sample : ccv48  
Misc : pest 100ppb  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Feb 26 08:59:31 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 15 15:55:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au365.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 5:28 pm  
Operator : m.pedro  
Sample : chlor icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:34:39 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

-----  
Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l  
-----

System Monitoring Compounds

Target Compounds

Sum Toxaphene 0 0 N.D. N.D.  
Average Toxaphene 0.000 0.000

32) L9C Chlordane 3.863 4.507 92451492 71651817 116.198 110.801  
33) L9C Chlordane{2} 4.003 4.689 139.5E6 94082510 85.794 84.862  
34) L9C Chlordane{3} 4.962 4.982 221.2E6 59470137 101.517 103.027  
35) L9C Chlordane{4} 5.593 5.721 47965776 153.8E6 92.515 101.242  
36) L9C Chlordane{5} 5.840 5.761 83708751 111.4E6 102.437 95.957  
Sum Chlordane 584.7E6 490.4E6 498.460 495.889  
Average Chlordane 99.692 99.178

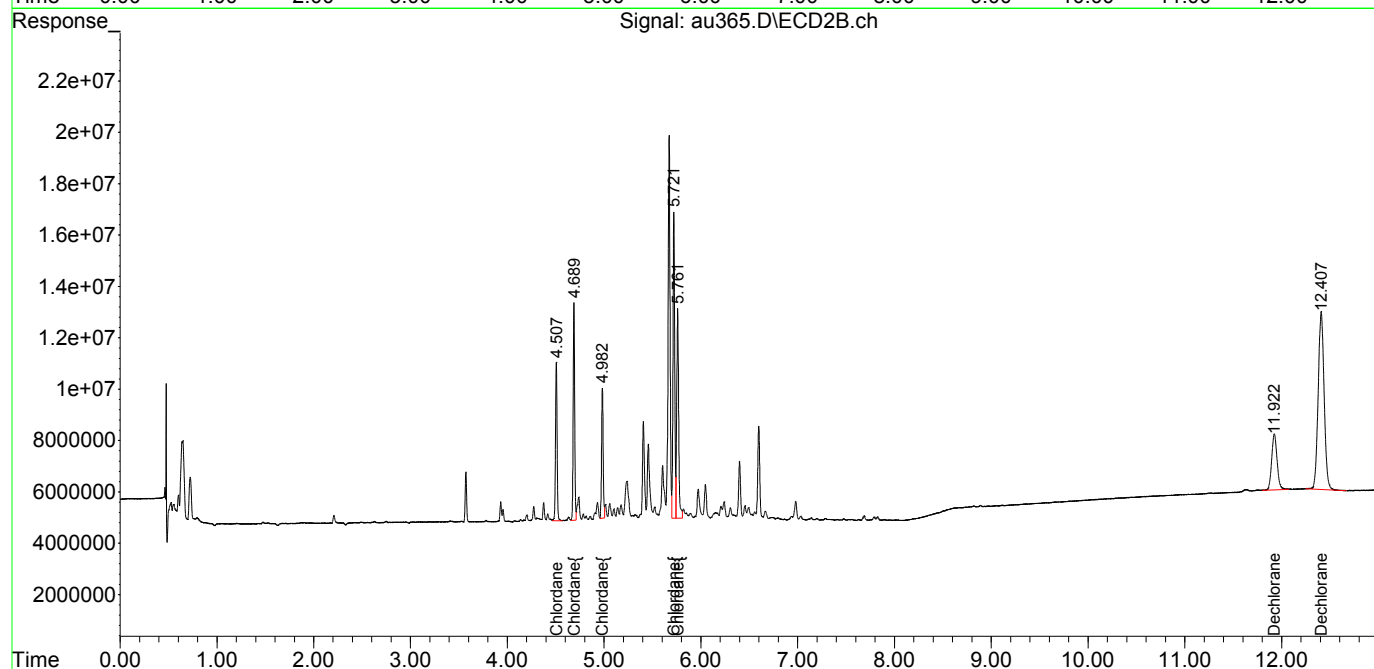
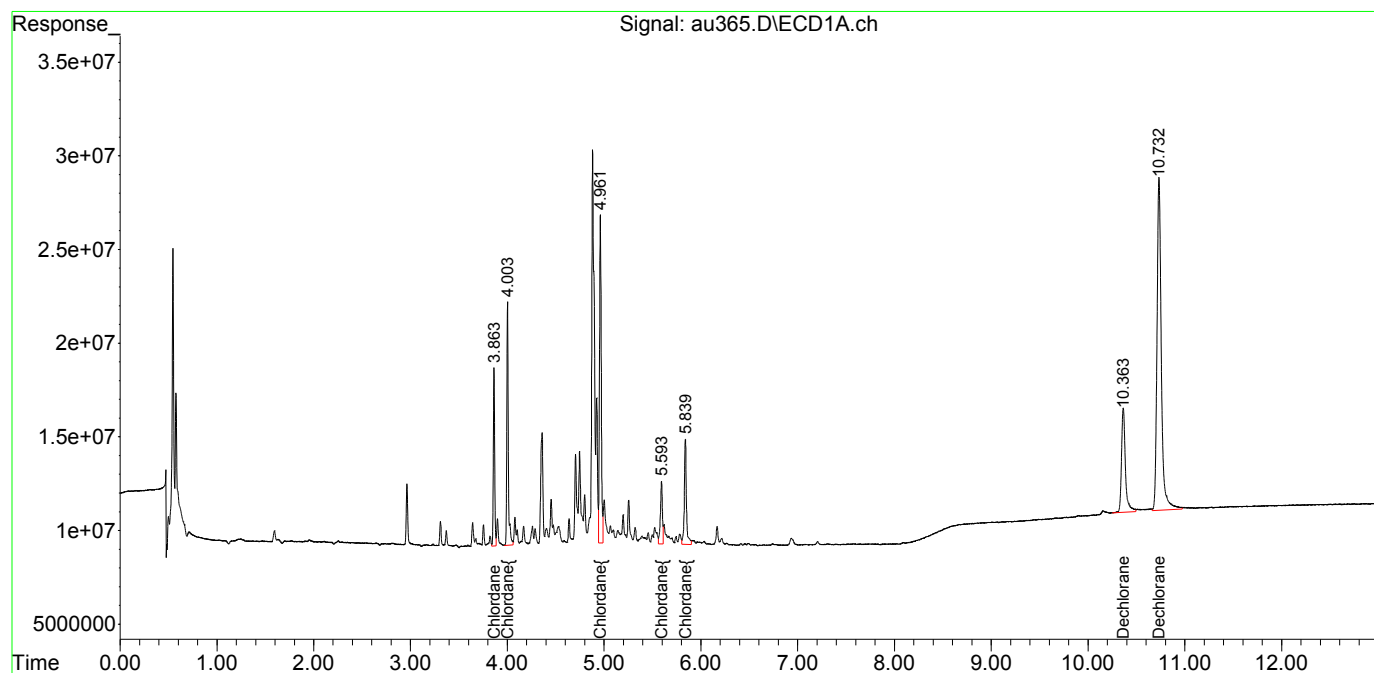
37) L10C Dechloran... 10.363 11.924 156.0E6 84717827 44.412 44.359  
38) L10C Dechloran... 10.732 12.408 552.7E6 297.3E6 45.347 45.970  
Sum Dechlorane 708.7E6 382.0E6 89.759 90.329  
Average Dechlorane 44.879 45.165

-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au365.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 5:28 pm  
Operator : m.pedro  
Sample : chlor icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:34:39 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



7D  
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (1):	STX-CLP	ID: 0.32 (mm)	Initial Calibration Date(s): 01/8/2018	
EPA Sample No. (PEM):	PEM		Date Analyzed:	01/8/2018
LAB Sample ID. (PEM):	PEM		Time Analyzed:	8:14
4,4'-DDT % Breakdown (1):	2.7%		Endrin % Breakdown (1):	3.5%
Combined % Breakdown (1):	6.2%			

QC LIMITS:

%D of amounts in PEM must be less than or equal to 25.0%  
4,4'-DDT breakdown must be less than or equal to 15.0%  
Endrin breakdown must be less than or equal to 15.0%  
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

7D  
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name:	ALS Environmental	Contract:		
Lab Code:	10145	Case No.:	SAS No.:	SDG No.:
GC Column (2):	STX-CLPII	ID: 0.32 (mm)	Initial Calibration Date(s): 01/8/2018	
EPA Sample No. (PEM):	PEM	Date Analyzed:	01/8/2018	
LAB Sample ID. (PEM):	PEM	Time Analyzed:	8:14	
4,4'-DDT % Breakdown (1):	1.8%	Endrin % Breakdown (1):	2.9%	
Combined % Breakdown (1):	4.8%			

QC LIMITS:

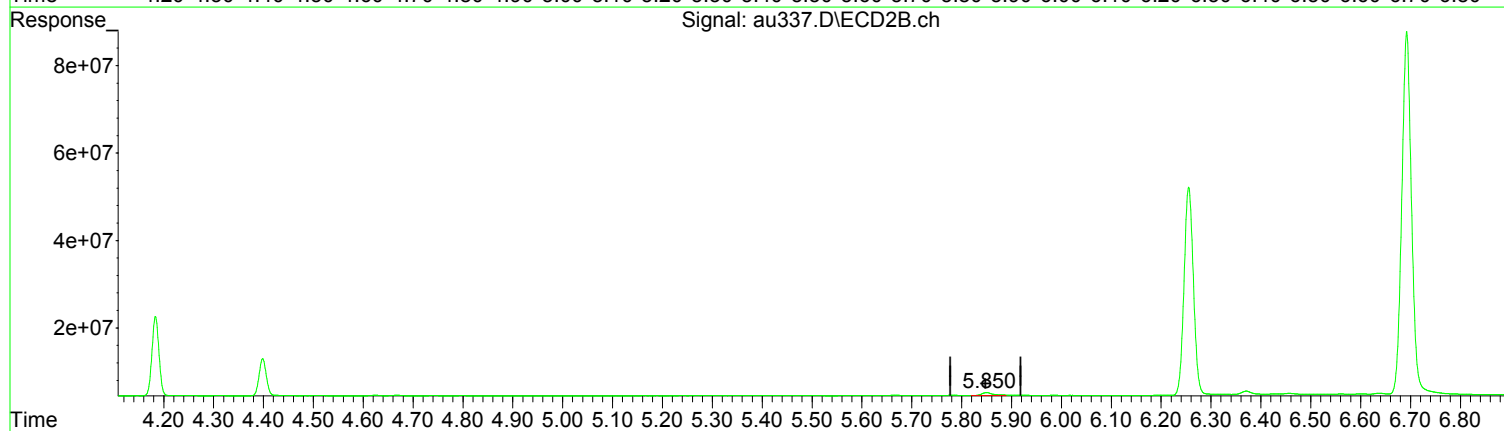
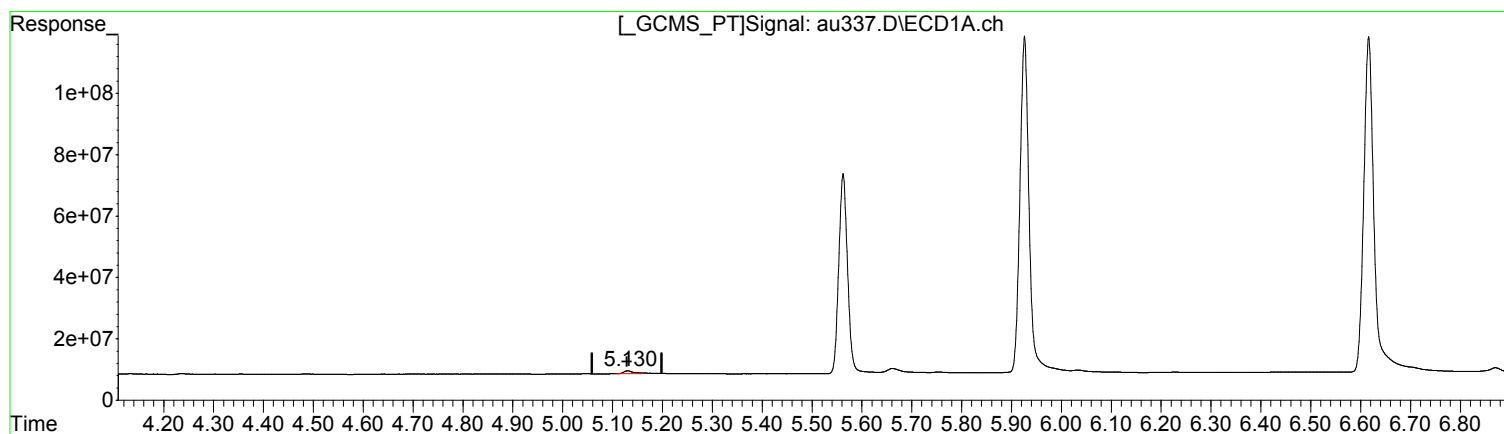
%D of amounts in PEM must be less than or equal to 25.0%  
4,4'-DDT breakdown must be less than or equal to 15.0%  
Endrin breakdown must be less than or equal to 15.0%  
Combined breakdown must be less than or equal to 30.0%

FORM VII PEST-1

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(13) 4,4'-DDE (tc)  
5.130min 0.627 ug/l m  
response 13099602

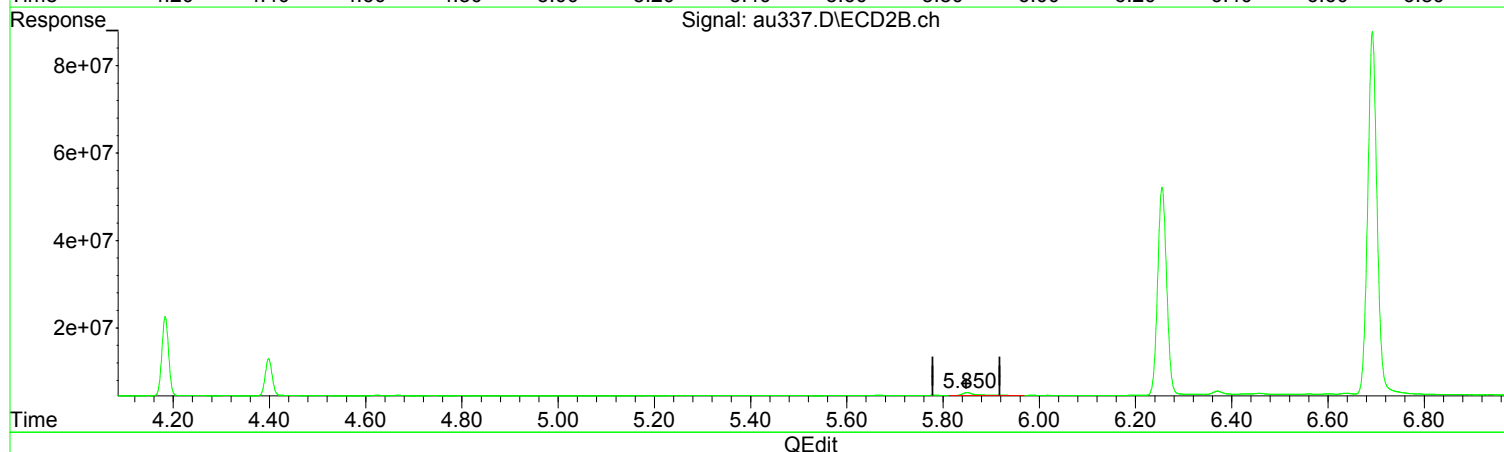
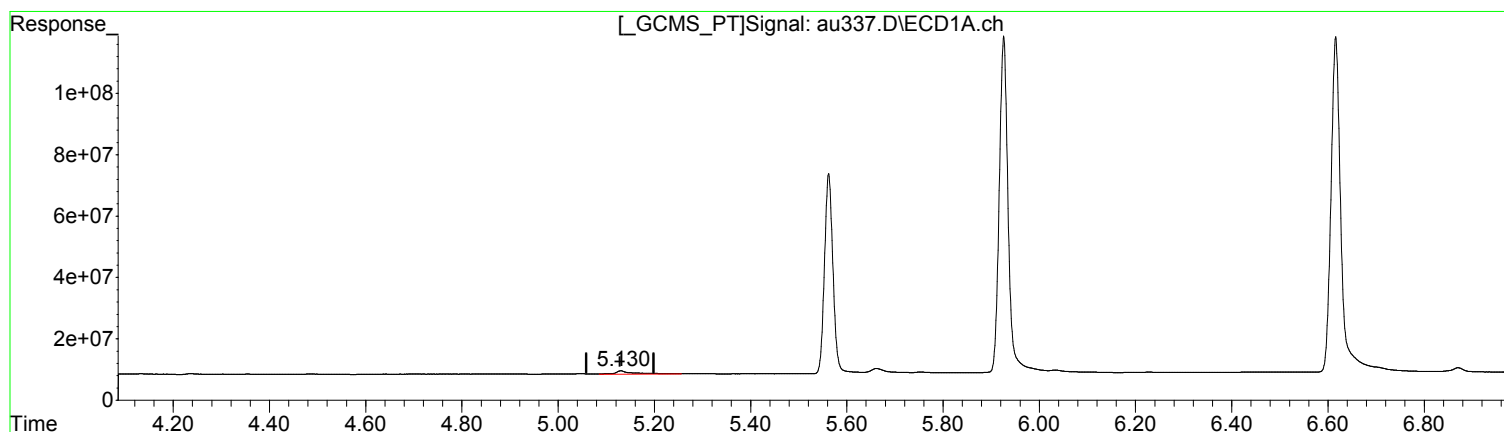
(13) 4,4'-DDE #2 (tc)  
5.850min 0.744 ug/l m  
response 11216258

Manual Integration:  
After  
Poor integration.  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(13) 4,4'-DDE (tc)  
5.131min 1.624 ug/l  
response 33925480

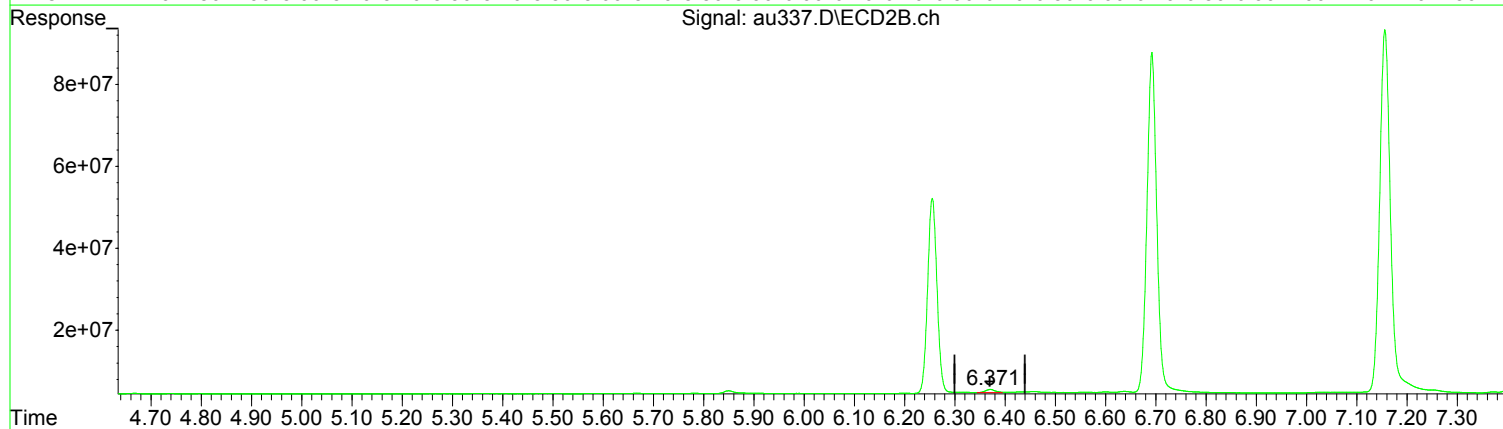
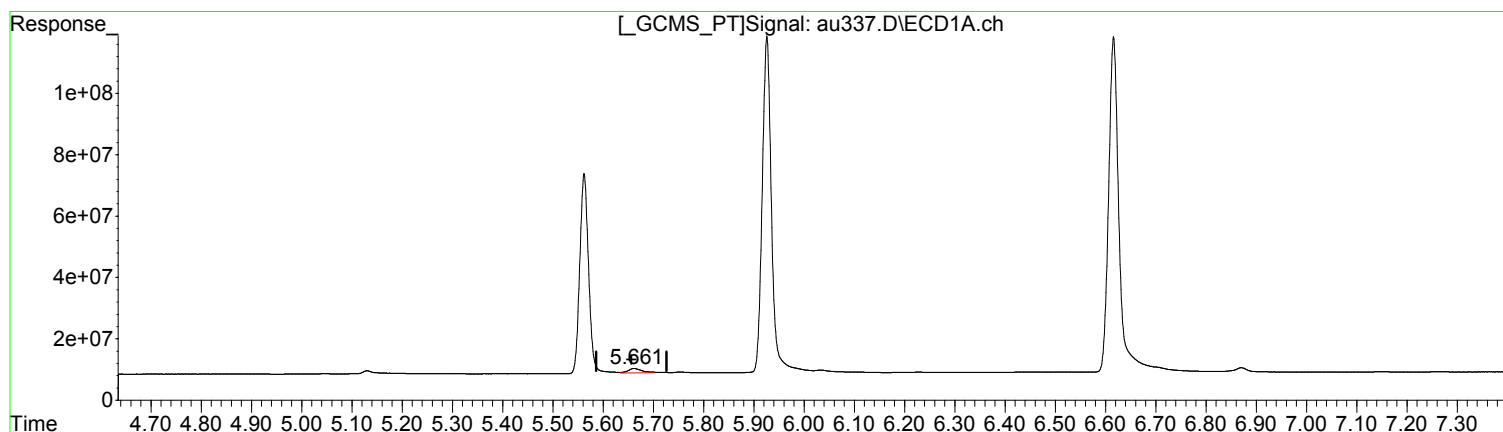
(13) 4,4'-DDE #2 (tc)  
5.850min 0.986 ug/l  
response 14871162

Manual Integration:  
Before  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)  
5.661min 1.427 ug/l m  
response 26563768

(18) 4,4'-DDD #2 (tc)  
6.371min 0.776 ug/l m  
response 10124438

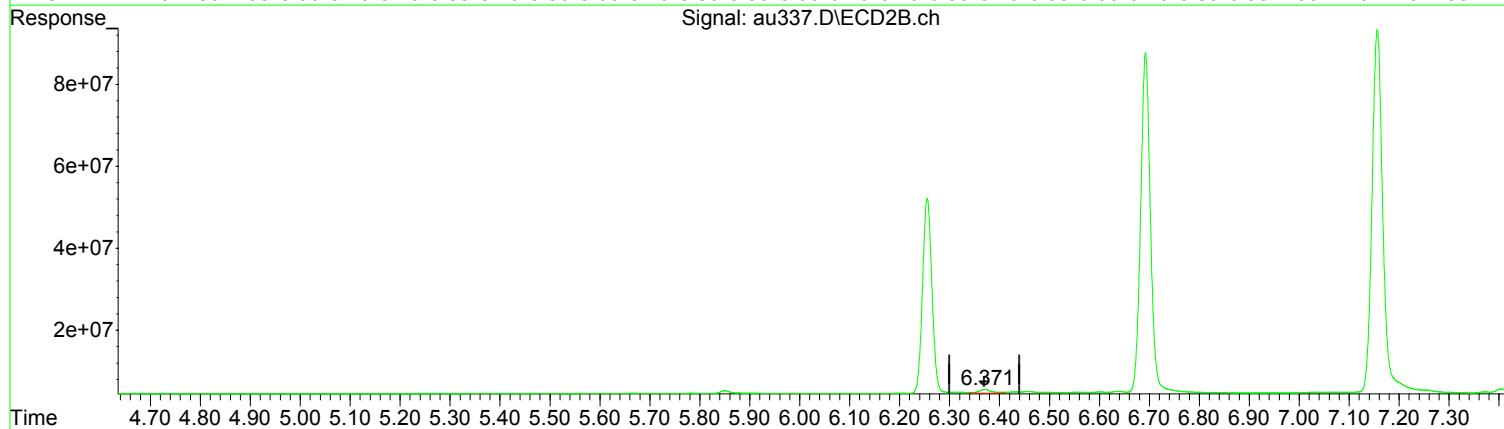
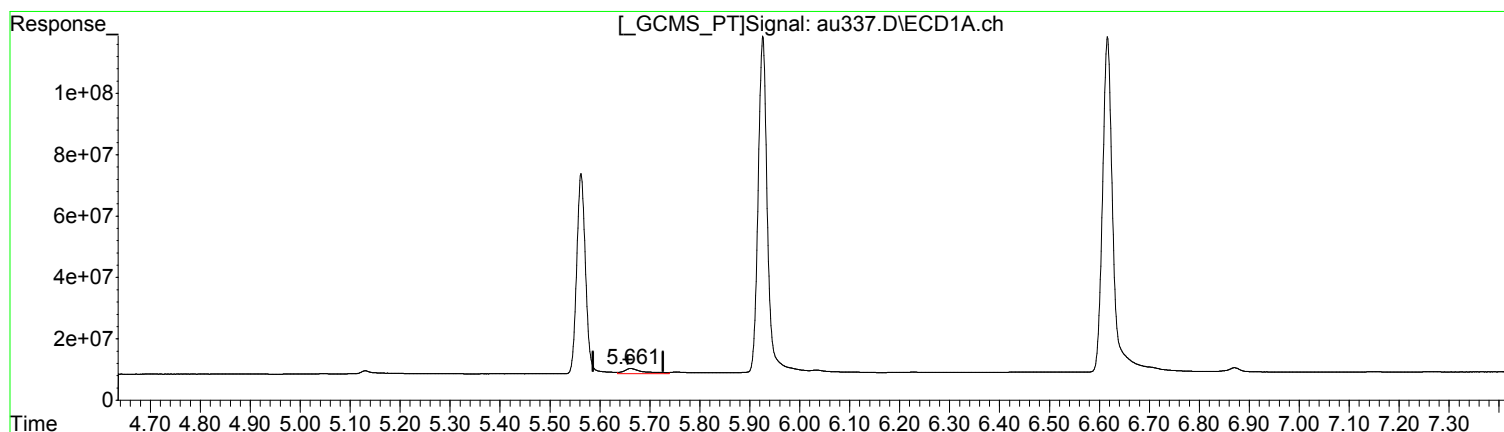
Manual Integration:  
After  
Poor integration.  
01/09/18



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(18) 4,4'-DDD (tc)  
5.662min 2.511 ug/l  
response 46739020

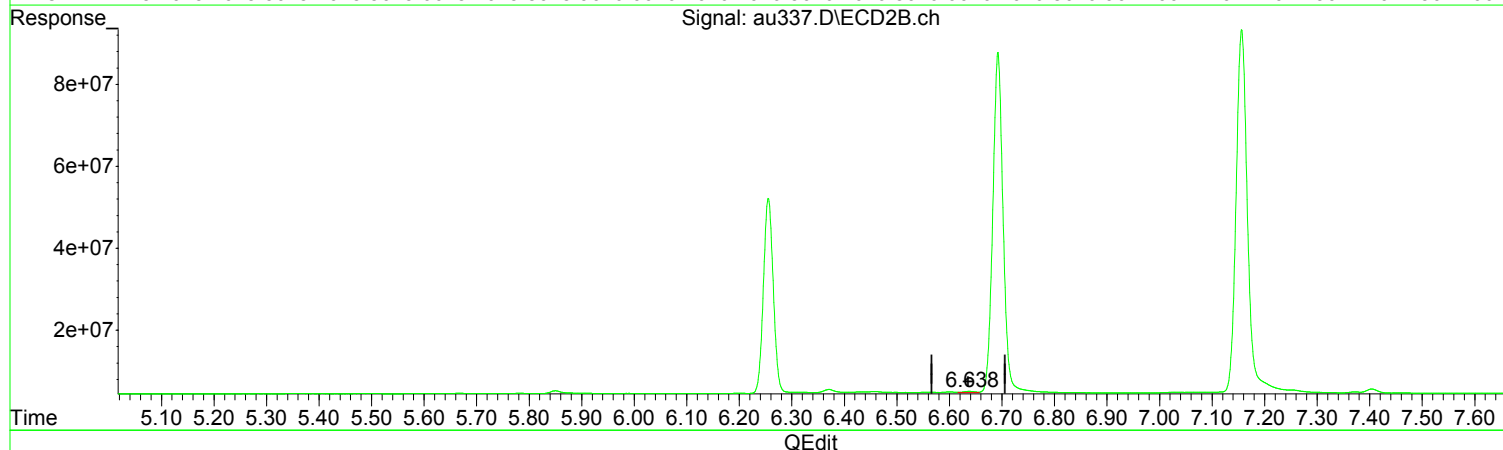
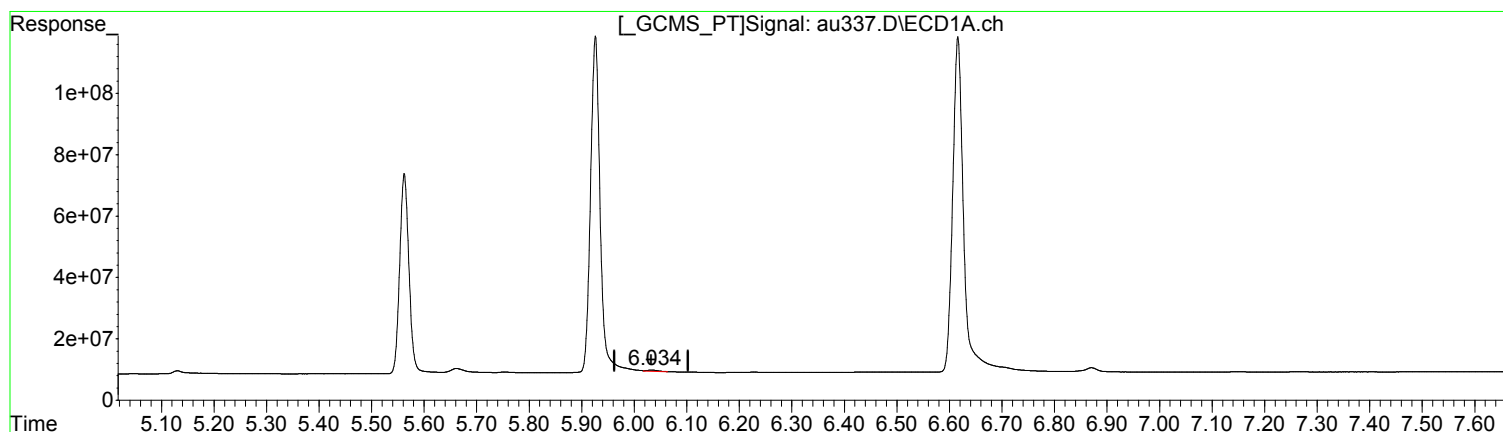
(18) 4,4'-DDD #2 (tc)  
6.371min 1.433 ug/l  
response 18691673

Manual Integration:  
Before  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)  
6.034min 0.411 ug/l m  
response 6899480

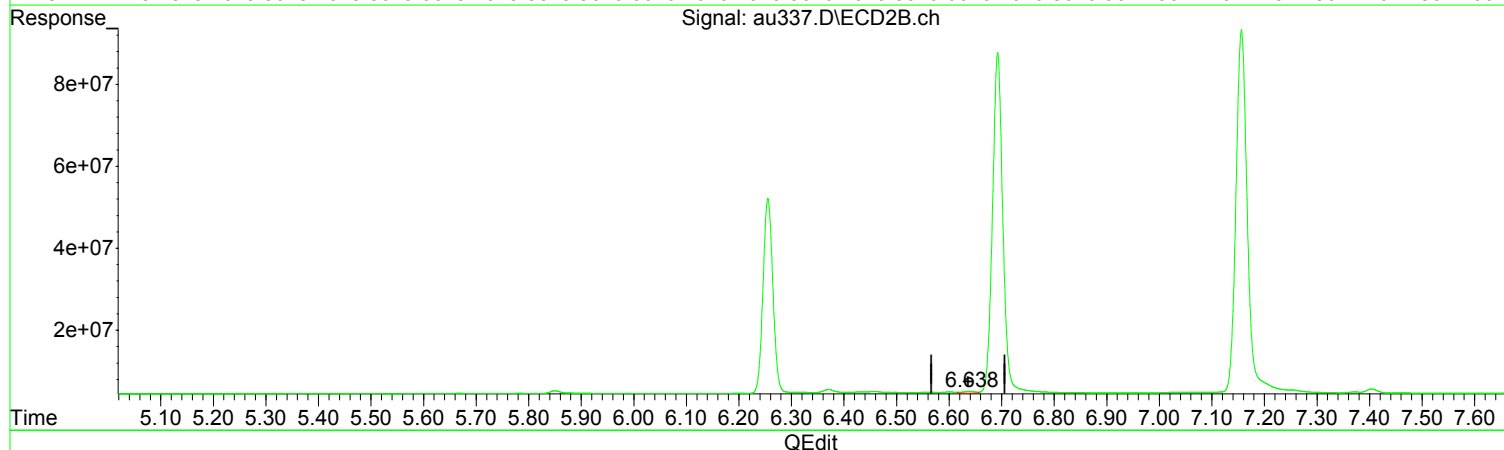
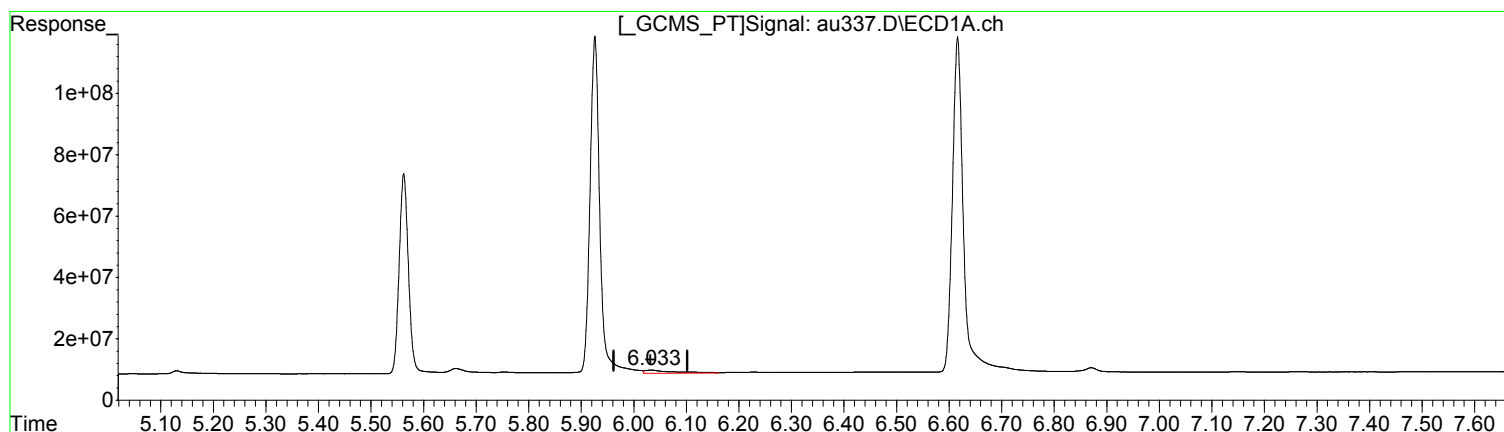
(20) Endrin Aldeh #2 (tc)  
6.638min 0.335 ug/l m  
response 3839363

Manual Integration:  
After  
Poor integration.  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)  
6.033min 2.533 ug/l  
response 42498353

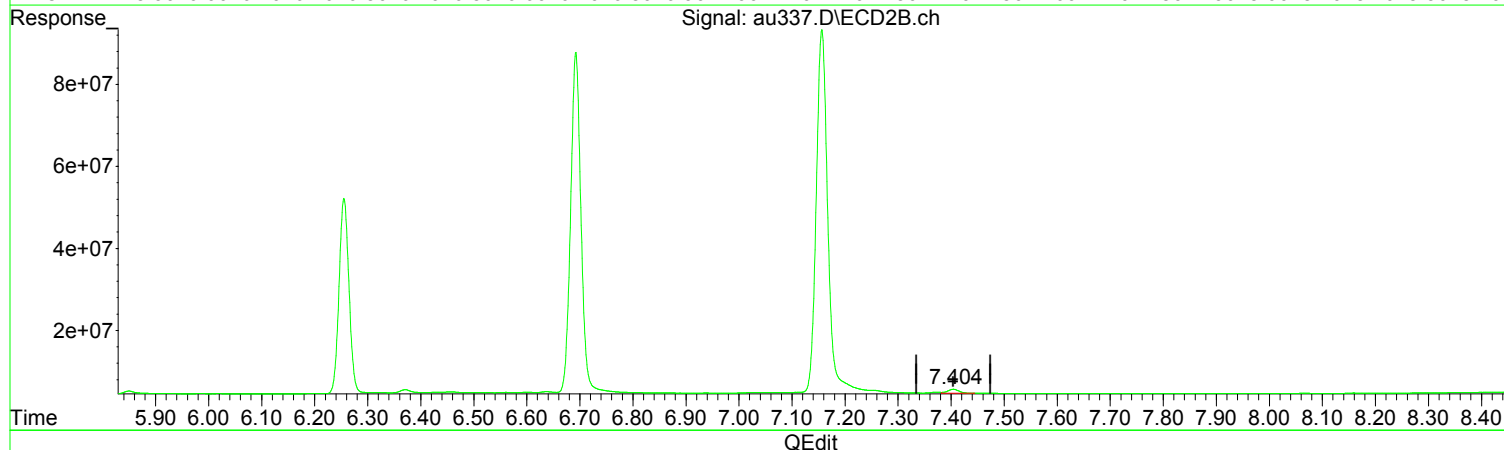
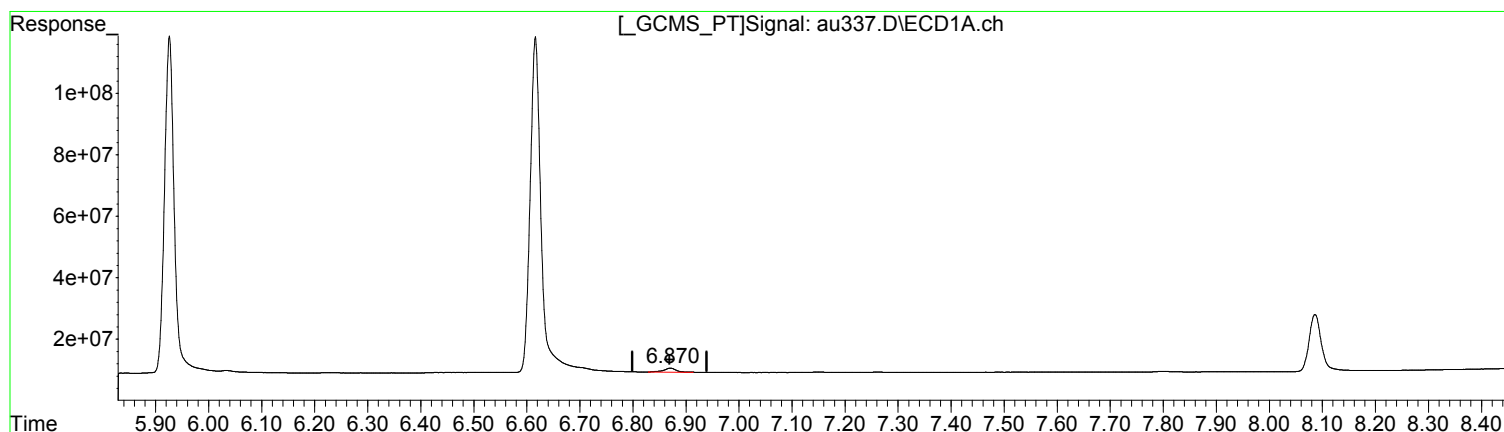
(20) Endrin Aldeh #2 (tc)  
6.638min 0.632 ug/l  
response 7247693

Manual Integration:  
Before  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.870min 1.168 ug/l m  
response 22768684

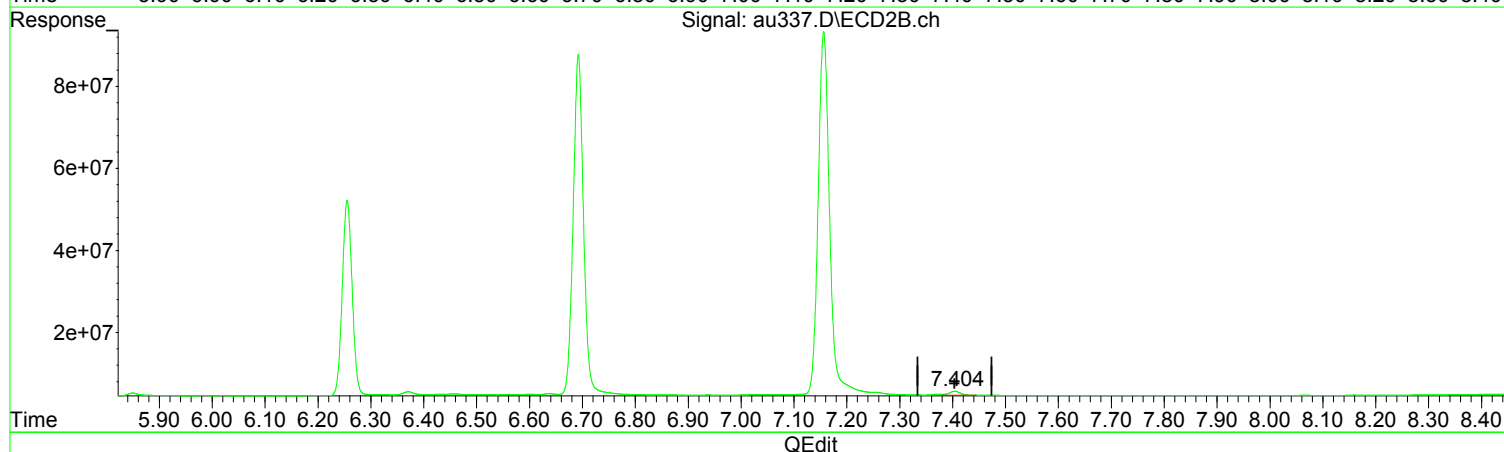
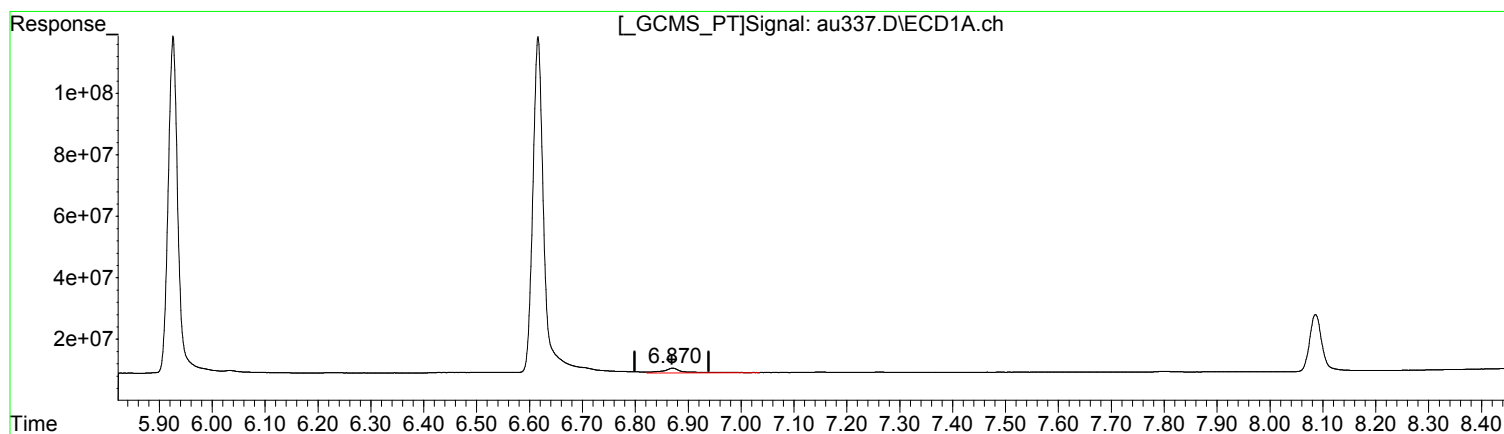
(24) Endrin Keton #2 (tc)  
7.404min 0.984 ug/l  
response 14991591

Manual Integration:  
After  
Poor integration.  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.871min 2.079 ug/l  
response 40552092

(24) Endrin Keton #2 (tc)  
7.404min 0.984 ug/l  
response 14991591

Manual Integration:  
Before  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au337.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 8:14 am  
 Operator : m.pedro  
 Sample : pem  
 Misc : pest perform check  
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:36:07 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:33:43 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

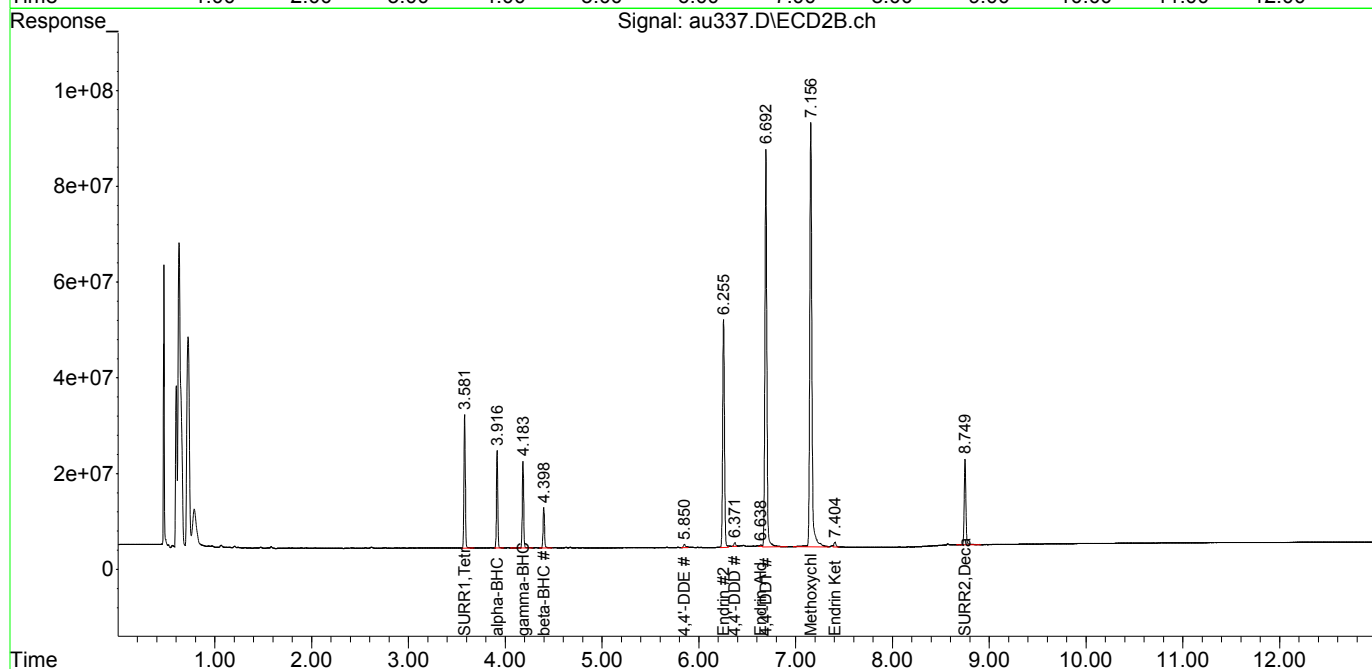
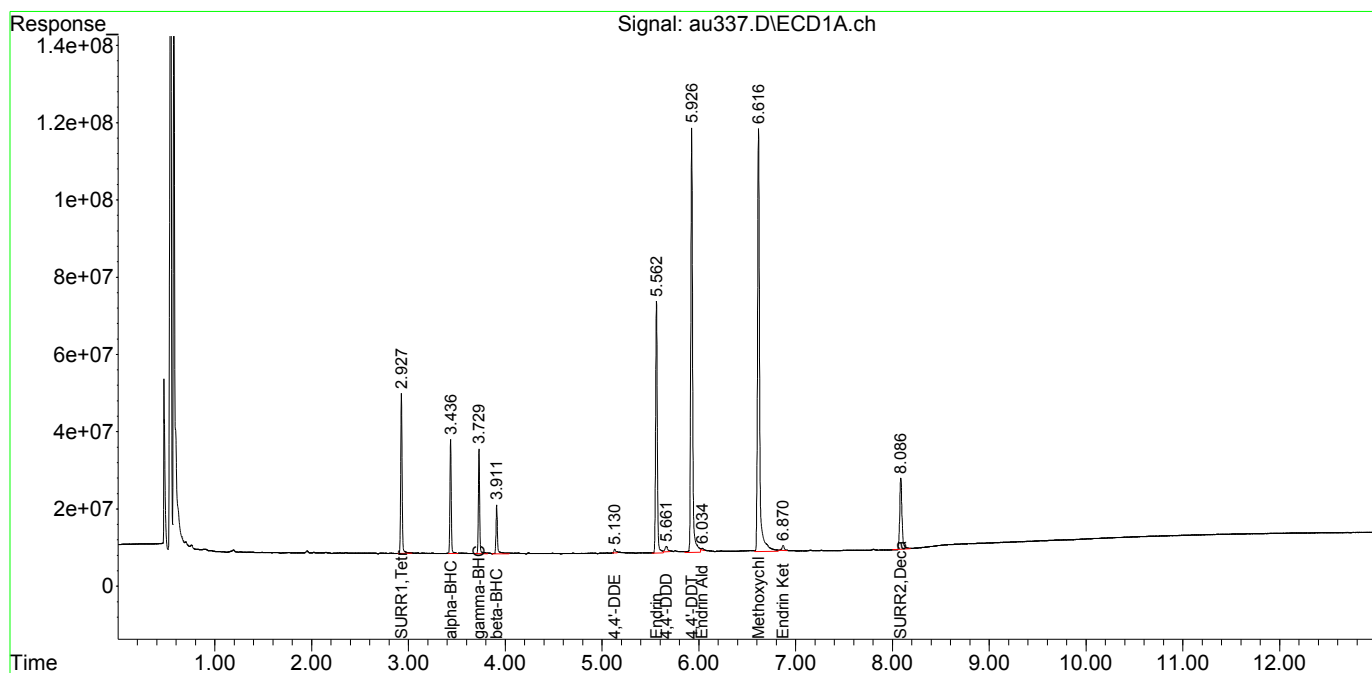
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.928	3.581	419.9E6	271.4E6	18.019	17.600
Spiked Amount	100.000 Range	30 - 150	Recovery	=	18.02%#	17.60%#
26) S SURR2,Dec...	8.086	8.749	300.8E6	217.2E6	20.457	19.684
Spiked Amount	100.000 Range	30 - 150	Recovery	=	20.46%#	19.68%#
Target Compounds						
3) tc alpha-BHC	3.436	3.917	278.9E6	192.9E6	8.835	8.952
4) tcm gamma-BHC (L	3.730	4.184	252.0E6	179.4E6	9.236	9.184
7) tc beta-BHC	3.912	4.399	141.5E6	87533271	10.912	9.514
13) tc 4,4'-DDE	5.130	5.850	13099602	11216258	0.627m	0.744m
15) tcm Endrin	5.562	6.255	807.5E6	622.5E6	40.930	42.421
18) tc 4,4'-DDD	5.661	6.371	26563768	10124438	1.427m	0.776m#
19) tcm 4,4'-DDT	5.926	6.693	1436.3E6	1143.4E6	79.676	83.585
20) tc Endrin Aldeh	6.034	6.638	6899480	3839363	0.411m	0.335m
22) tc Methoxychlor	6.616	7.156	1640.0E6	1373.2E6	183.393	185.047
24) tc Endrin Keton	6.870	7.404	22768684	14991591	1.168m	0.984
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au337.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 8:14 am  
Operator : m.pedro  
Sample : pem  
Misc : pest perform check  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:36:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

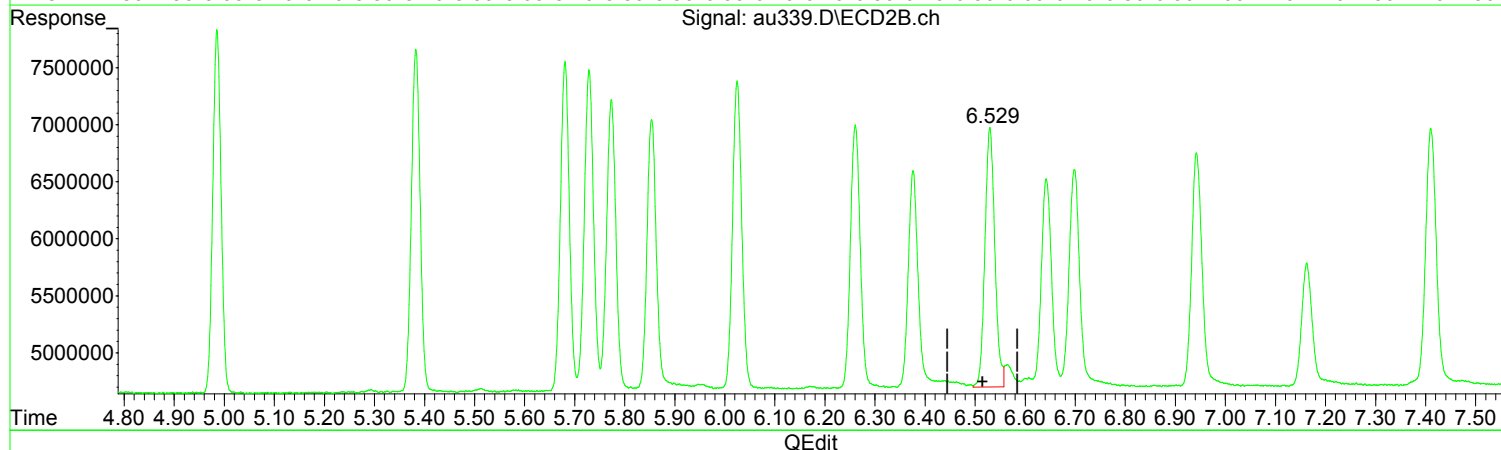
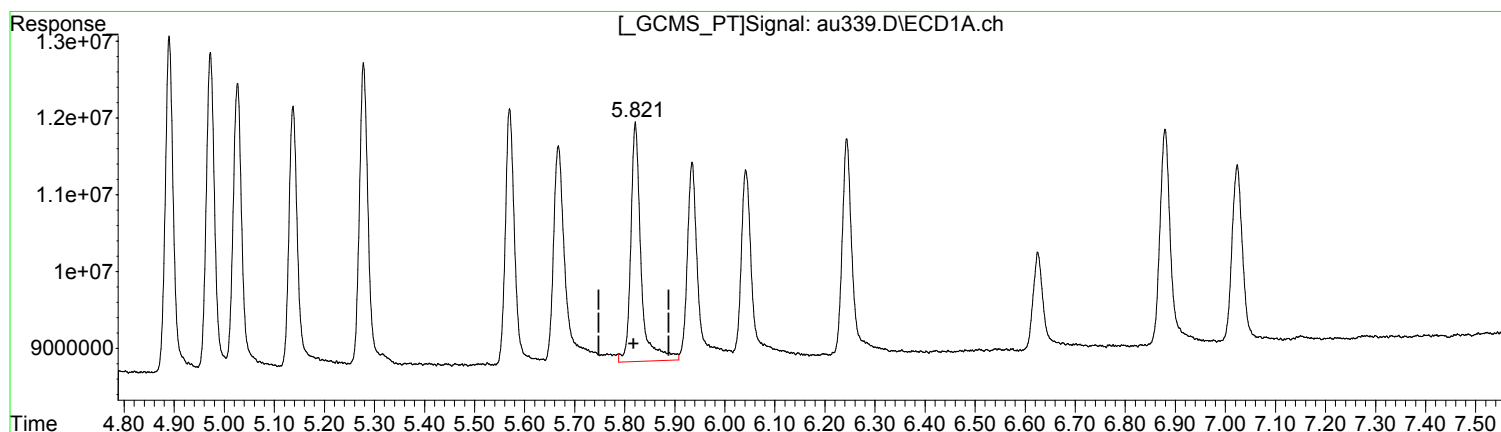
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)  
5.821min 1.452 ug/l m  
response 44249516

(17) beta-Endosul #2 (tc)  
6.530min 1.911 ug/l  
response 31235433

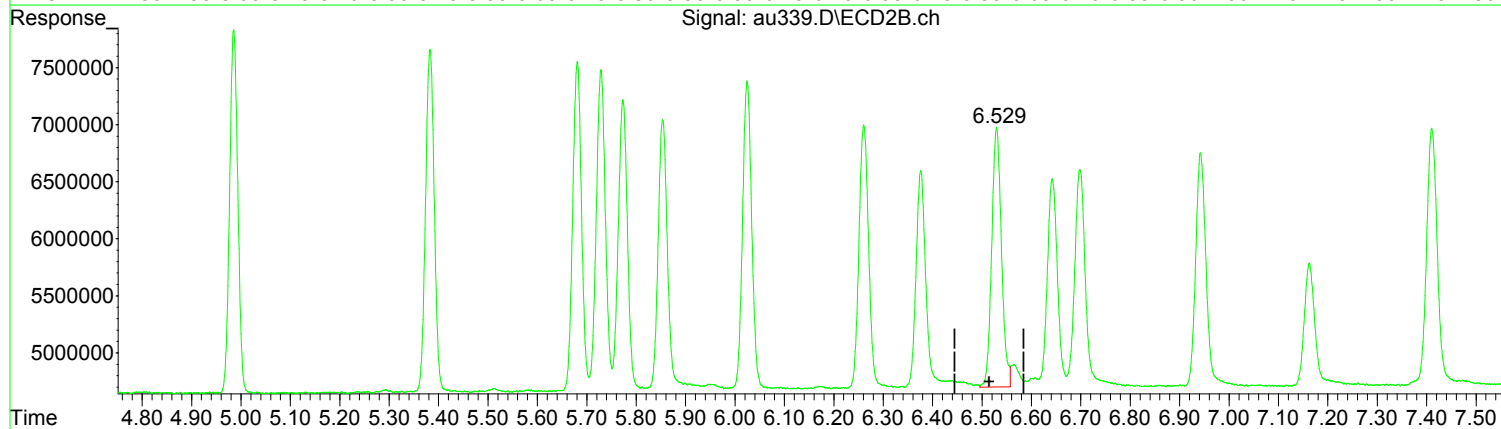
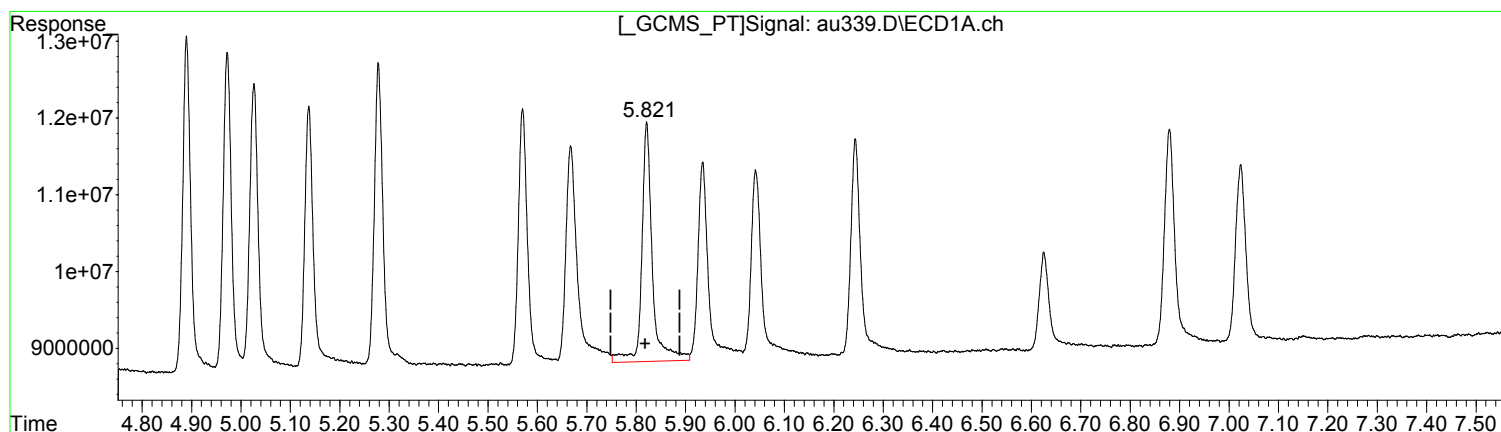
Manual Integration:  
After  
Poor integration.  
01/08/18



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)  
5.821min 1.527 ug/l  
response 46549067

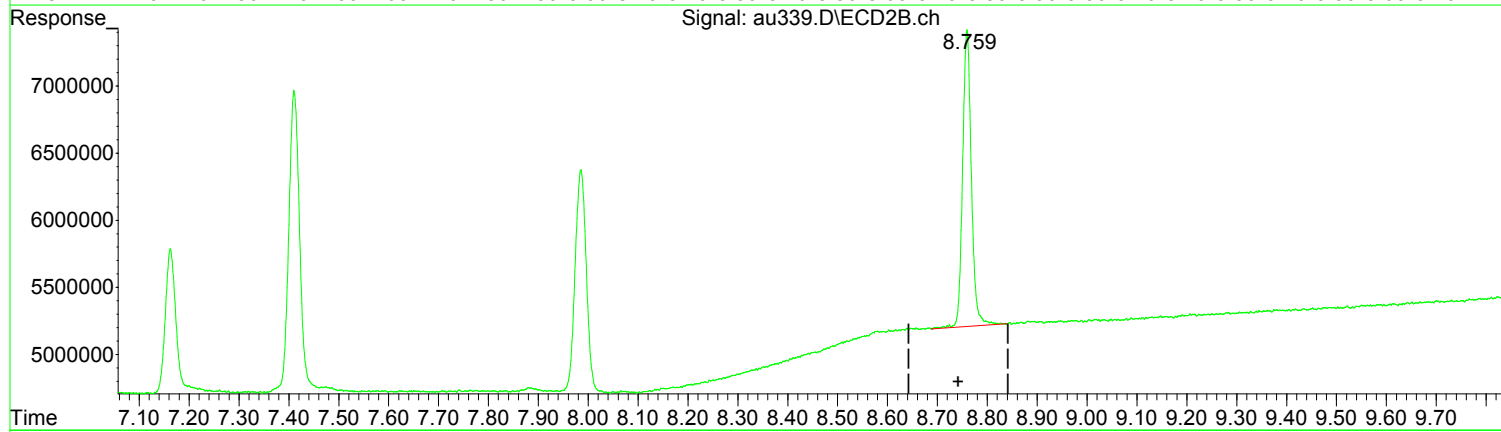
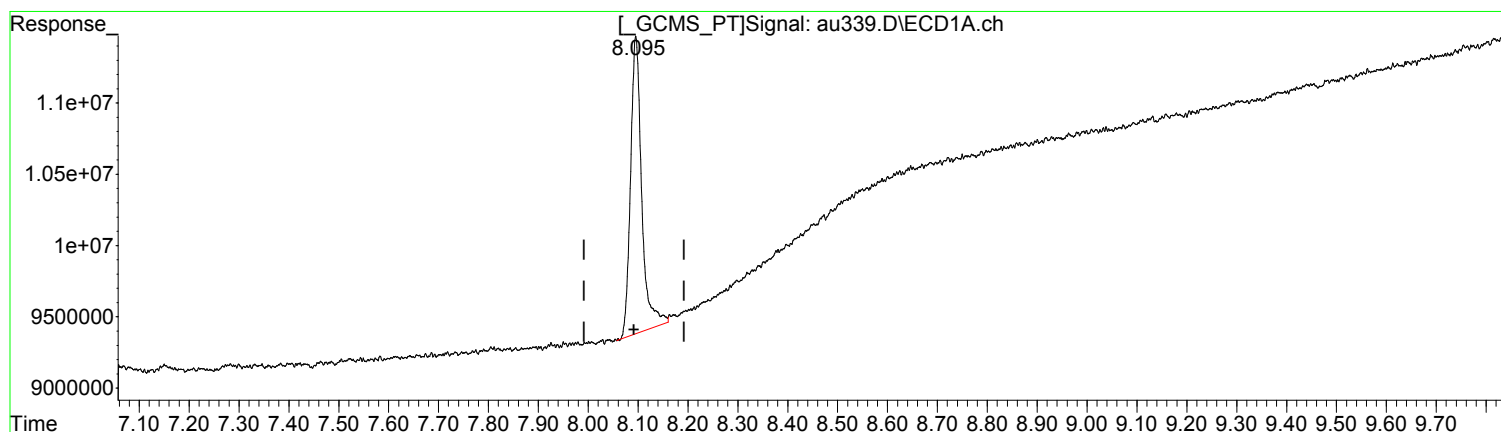
(17) beta-Endosul #2 (tc)  
6.530min 1.911 ug/l  
response 31235433

Manual Integration:  
Before  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)

8.095min 1.255 ug/l m  
response 32372991

(26) SURRE2,Decachlorobiphenyl #2 (S)

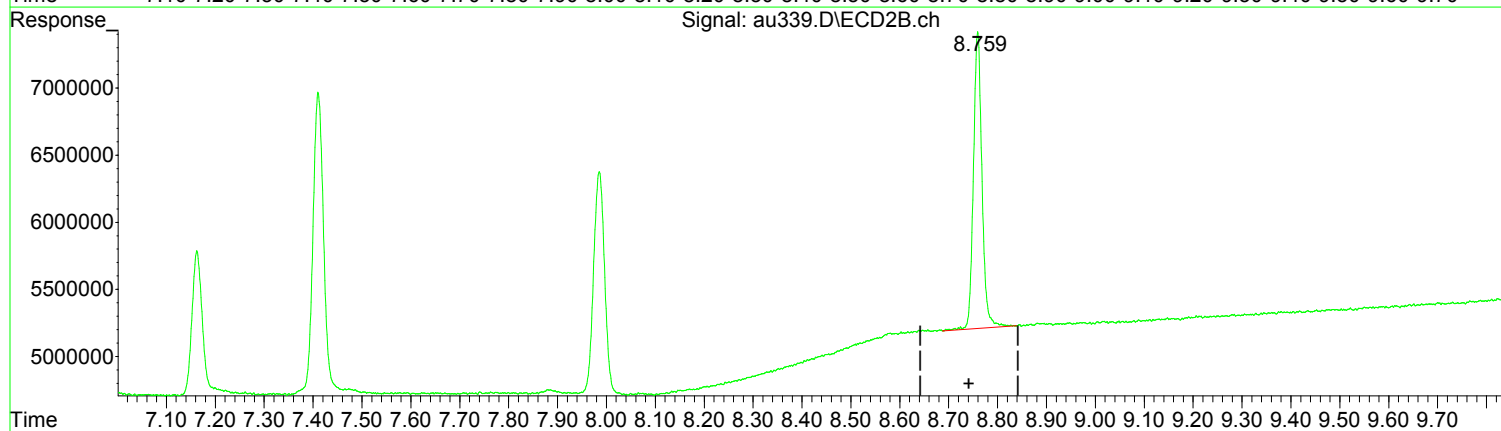
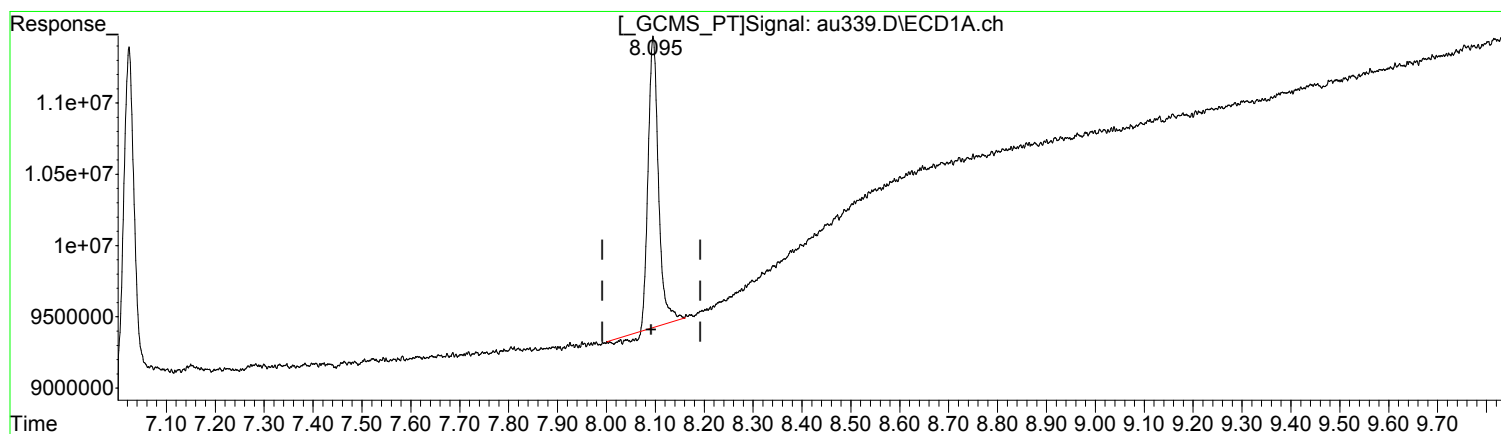
8.760min 2.036 ug/l  
response 27006993

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) SURRE2,Decachlorobiphenyl (S)

8.096min 1.119 ug/l

response 28875186

Manual Integration:

Before

01/08/18

(26) SURRE2,Decachlorobiphenyl #2 (S)

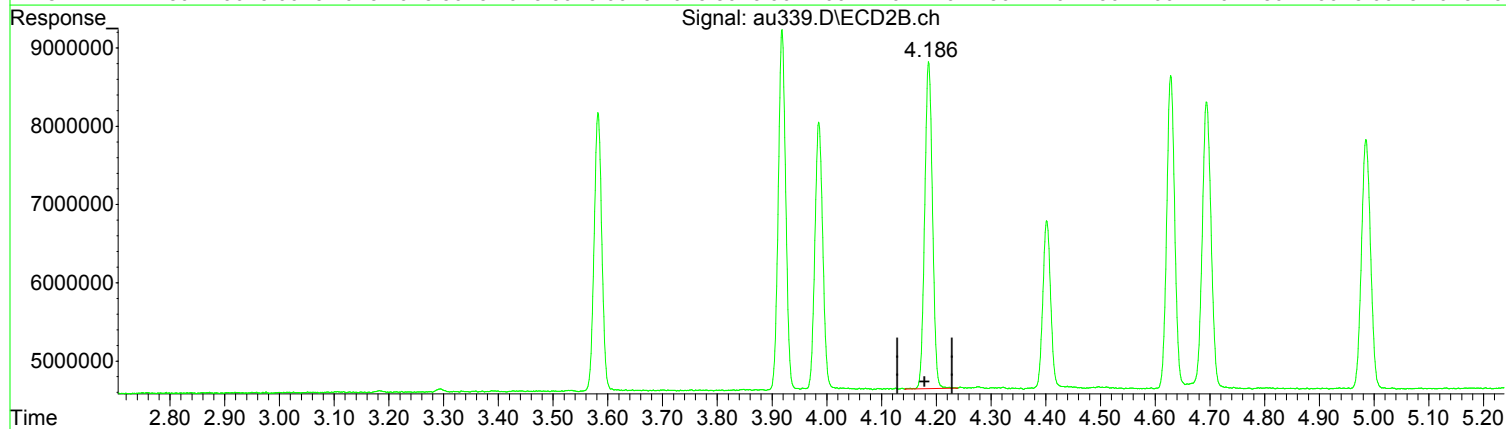
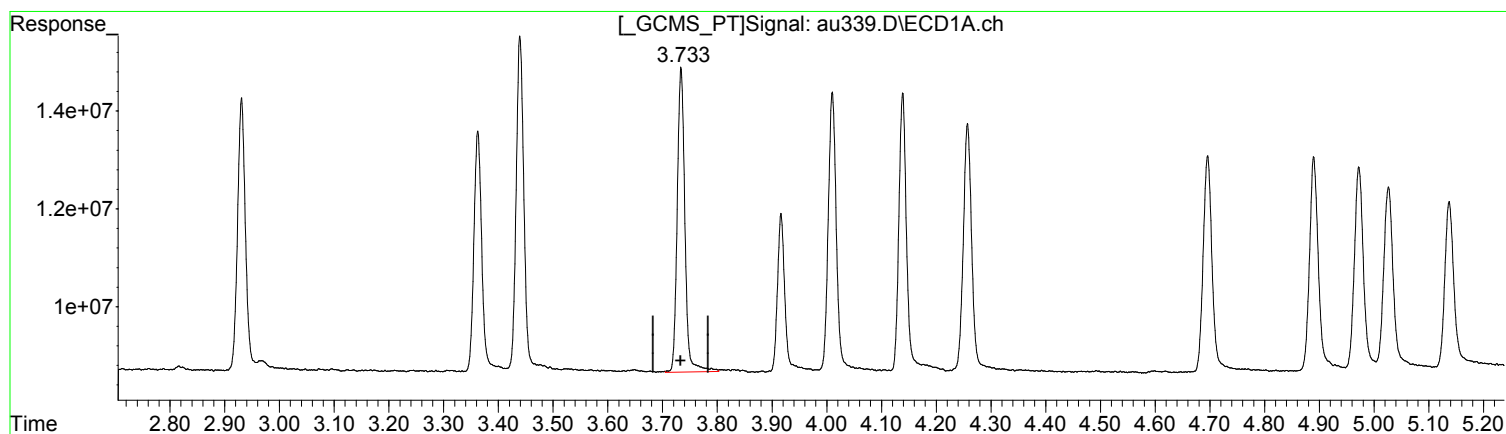
8.760min 2.036 ug/l

response 27006993

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(4) gamma-BHC (L (tcm)  
3.733min 1.631 ug/l m  
response 60304801

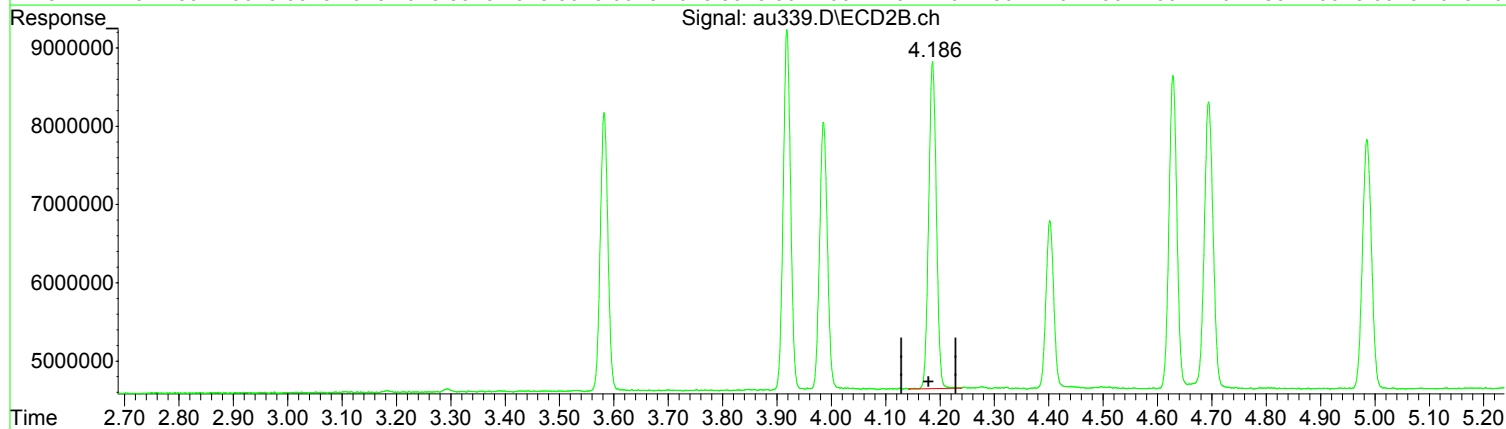
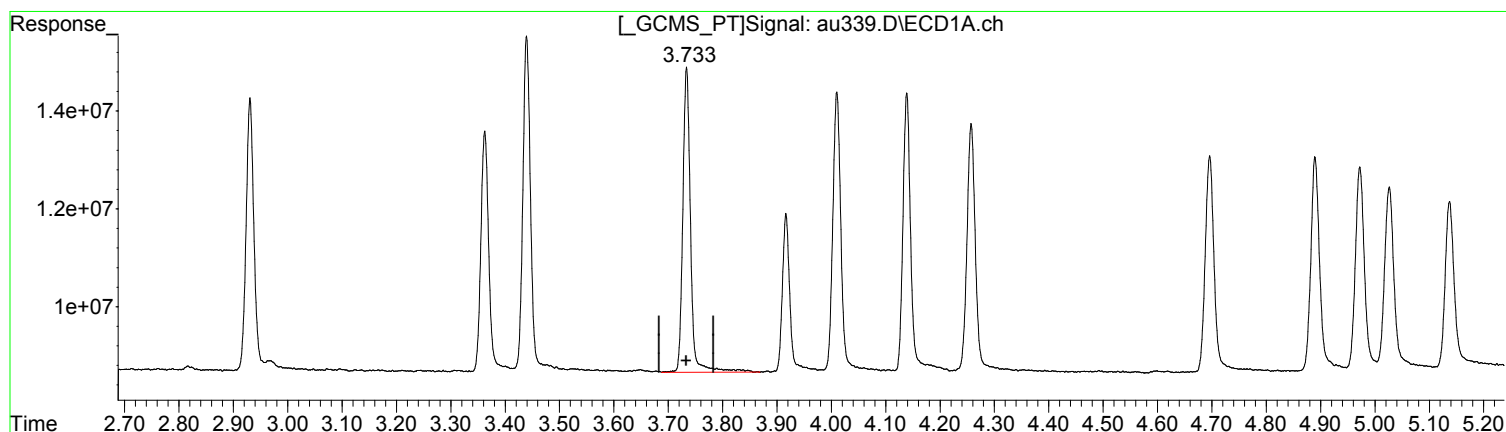
(4) gamma-BHC (L #2 (tcm)  
4.186min 1.987 ug/l  
response 40988858

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(4) gamma-BHC (L (tcm)  
3.734min 1.685 ug/l  
response 62303832

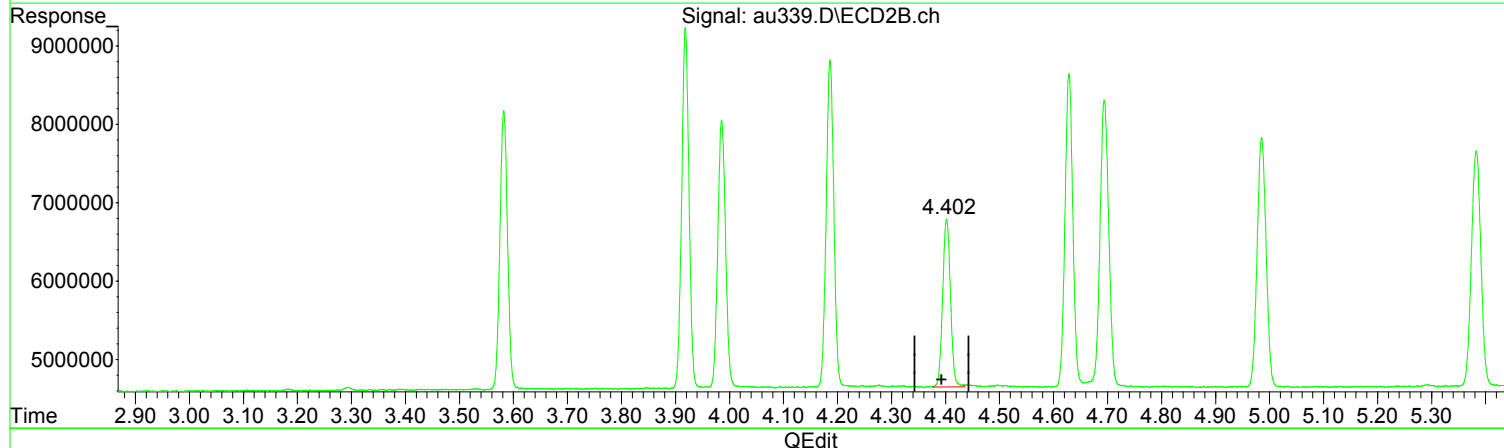
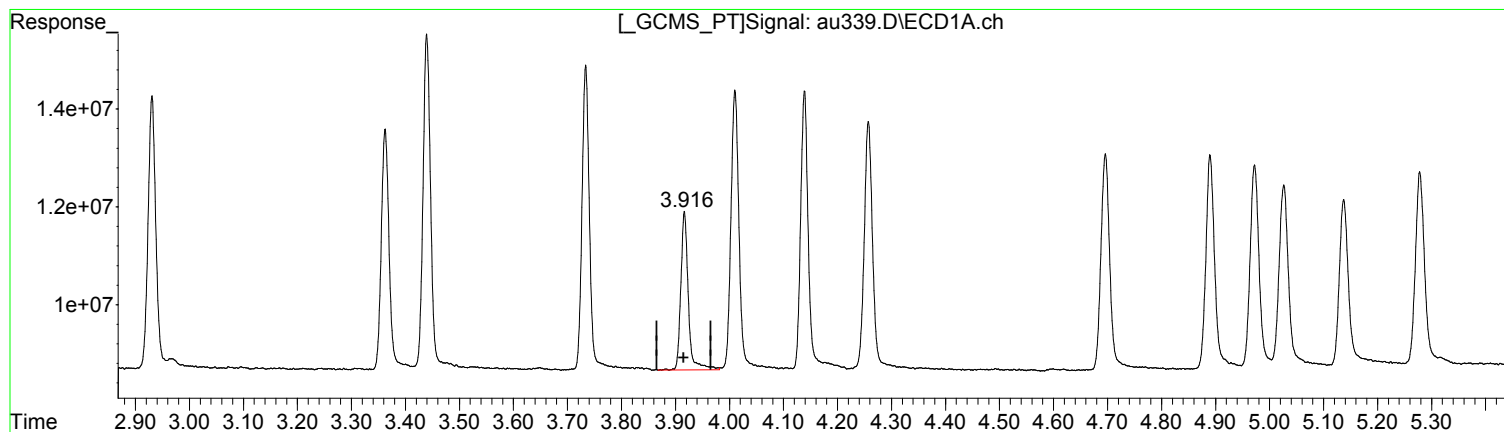
(4) gamma-BHC (L #2 (tcm)  
4.186min 1.987 ug/l  
response 40988858

Manual Integration:  
Before  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.917min 1.839 ug/l  
response 31405053

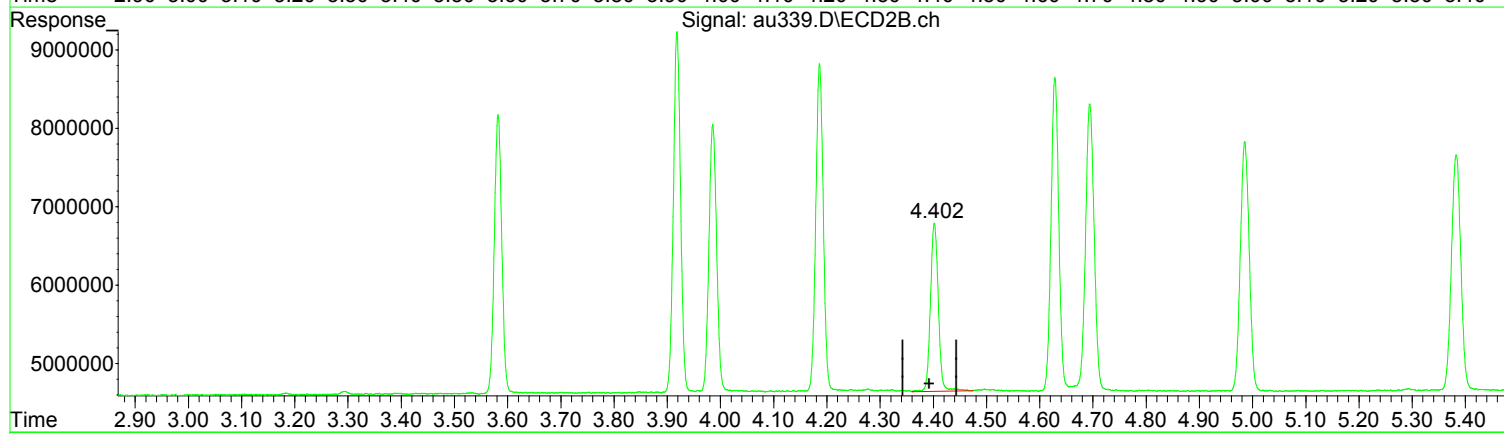
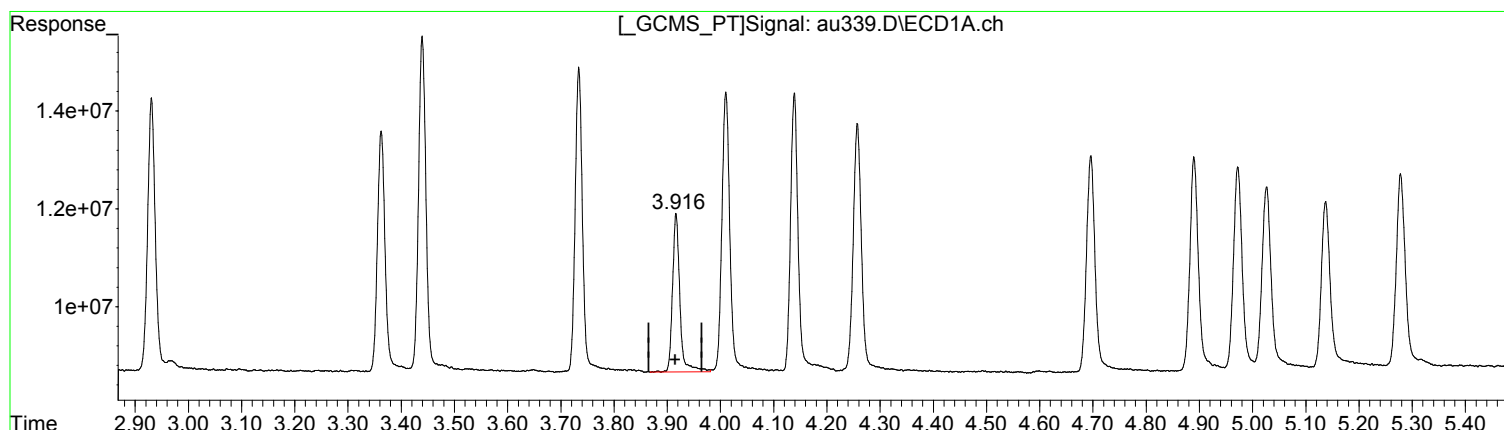
(7) beta-BHC #2 (tc)  
4.402min 2.225 ug/l m  
response 21444509

Manual Integration:  
After  
Poor integration.  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.917min 1.839 ug/l  
response 31405053

(7) beta-BHC #2 (tc)  
4.402min 2.283 ug/l  
response 22010330

Manual Integration:  
Before  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au339.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:32 am  
Operator : m.pedro  
Sample : pest 2 ppb  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.931	3.582	55319515	34911155	1.968	2.194
Spiked Amount	100.000 Range	30 - 150	Recovery =		1.97%#	2.19%#
26) S SURR2,Dec...	8.095	8.760	32372991	27006993	1.255m	2.036 #
Spiked Amount	100.000 Range	30 - 150	Recovery =		1.25%#	2.04%#
Target Compounds						
2) TC HEXACHLOR...	3.363	3.986	49695716	34520772	1.909	2.259
3) tc alpha-BHC	3.440	3.918	67504311	43369205	1.664	1.916
4) tcm gamma-BHC (L	3.733	4.186	60304801	40988858	1.631m	1.987
5) tcm Heptachlor	4.010	4.694	60468689	41654540	1.675	1.981
6) tcm Aldrin	4.257	4.985	55131921	36870159	1.537	1.879
7) tc beta-BHC	3.917	4.402	31405053	21444509	1.839	2.225m
8) tc delta-BHC	4.139	4.629	57743635	40640096	1.566	1.952
9) tc Heptachlor E	4.696	5.383	52154230	36842666	1.573	1.985 #
10) tc alpha-Endosu	5.026	5.773	47435361	33146931	1.557	1.973 #
11) tc gamma-Chlord	4.890	5.681	50016414	35775629	1.429	1.888 #
12) tc alpha-Chlord	4.972	5.729	48268322	36095125	1.470	1.949 #
13) tc 4,4'-DDE	5.137	5.854	44377641	32325213	1.378	1.811 #
14) tcm Dieldrin	5.278	6.025	49103995	34977357	1.430	1.902 #
15) tcm Endrin	5.570	6.261	43636825	31729831	1.436	1.981 #
17) tc beta-Endosul	5.821	6.530	44249516	31235433	1.452m	1.911 #
18) tc 4,4'-DDD	5.668	6.376	47357450	26424679	1.718	1.703
19) tcm 4,4'-DDT	5.935	6.699	38527766	28723690	1.335	1.742 #
20) tc Endrin Aldeh	6.042	6.642	38453866	25808079	1.454	1.934 #
21) tc Endosulfan S	6.244	6.942	41159458	29832391	1.440	1.981 #
22) tc Methoxychlor	6.625	7.163	19308693	16293231	1.274	1.840 #
24) tc Endrin Keton	6.879	7.411	43739269	32940544	1.300	1.826 #
25) tc Mirex	7.024	7.986	35729073	26092530	1.472	2.111 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000
-----						

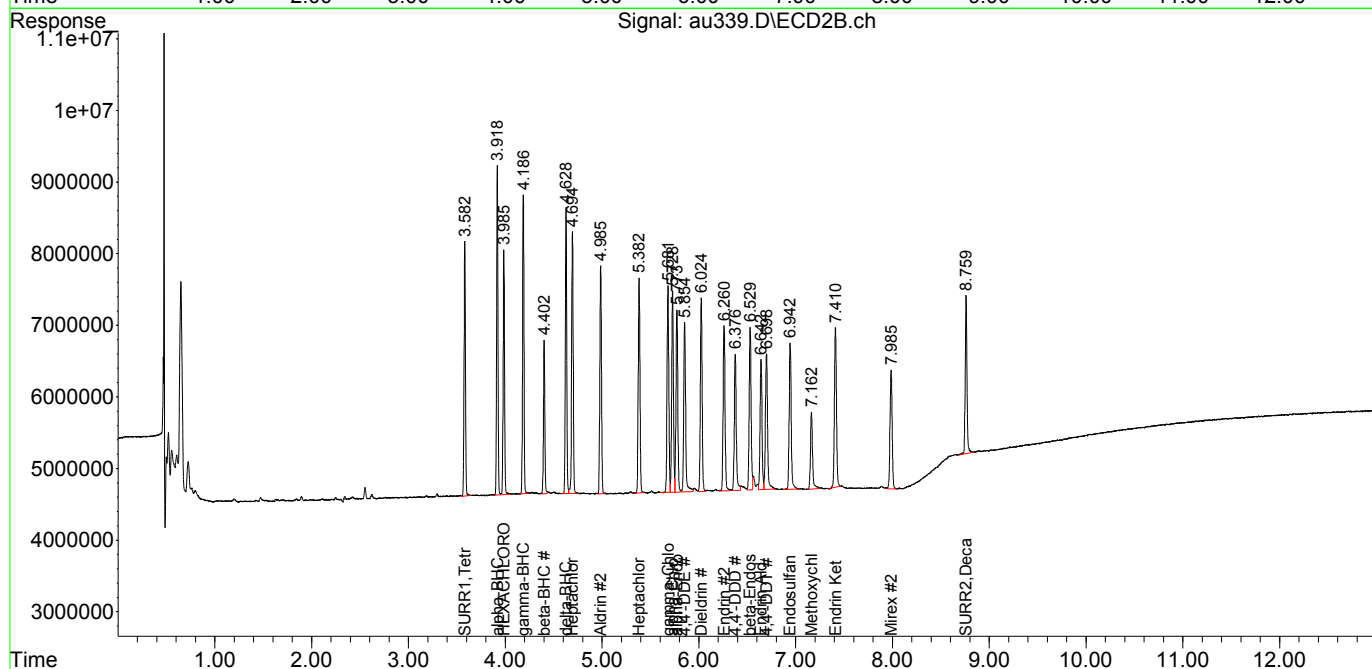
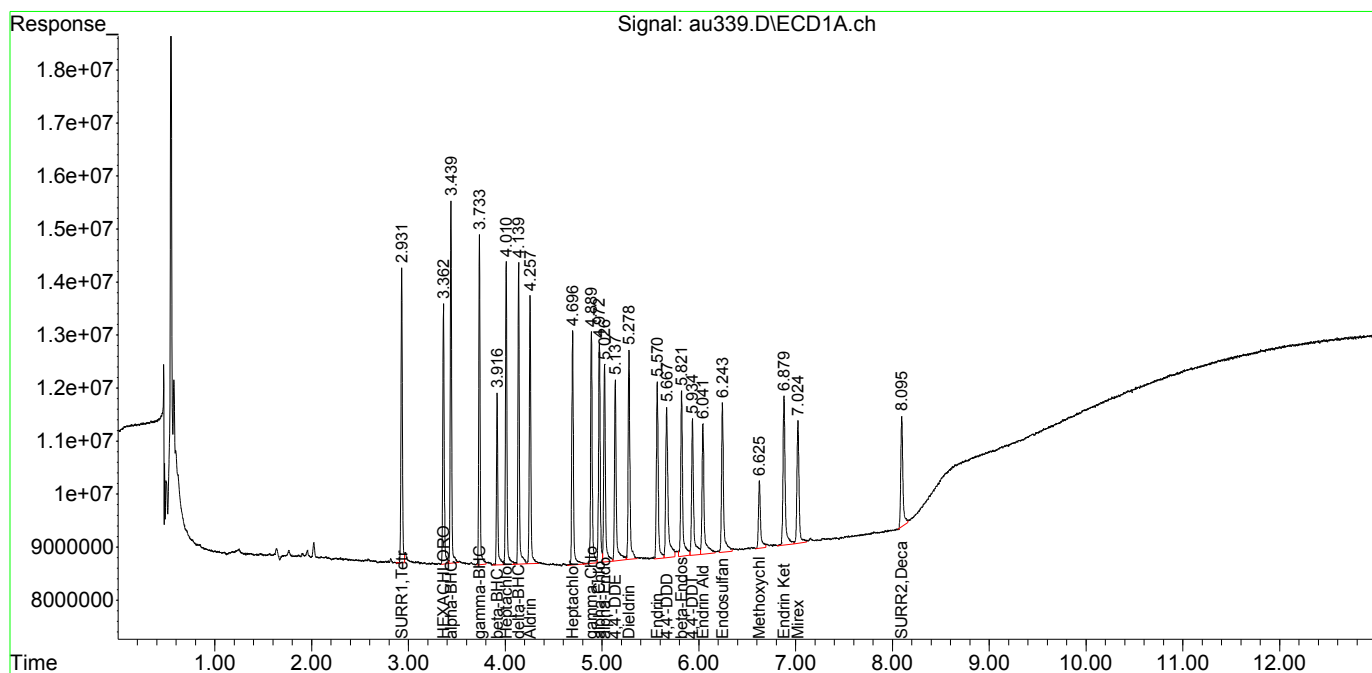
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au339.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 9:32 am  
 Operator : m.pedro  
 Sample : pest 2 ppb  
 Misc : initial cal  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:29:15 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

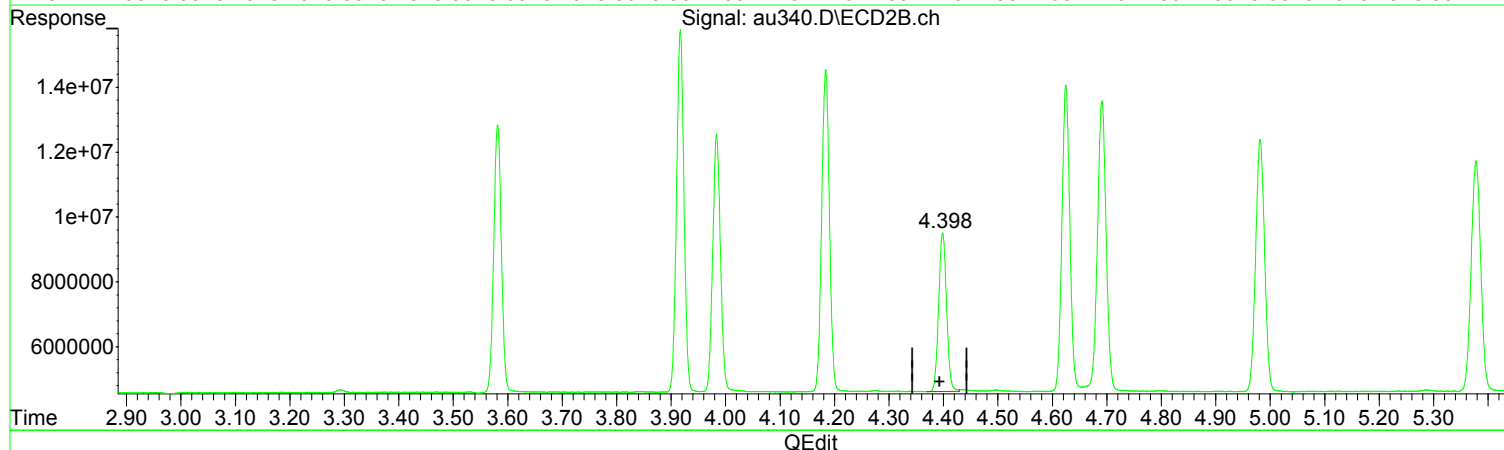
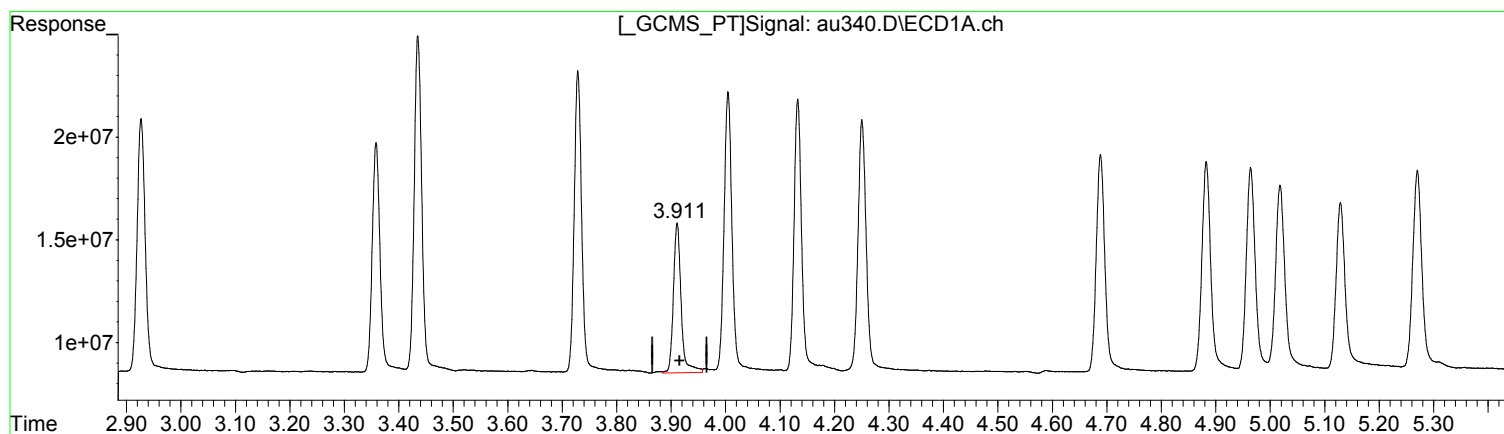
Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au340.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:50 am  
Operator : m.pedro  
Sample : pest 5 ppb  
Misc : initial cal  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:19 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.911min 4.221 ug/l  
response 72102440

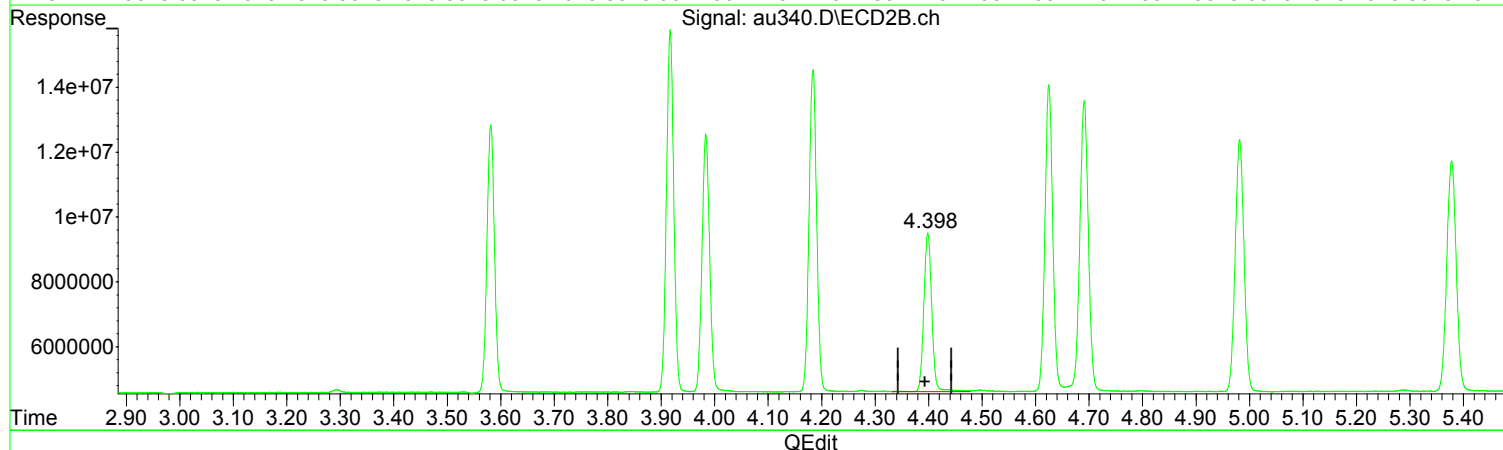
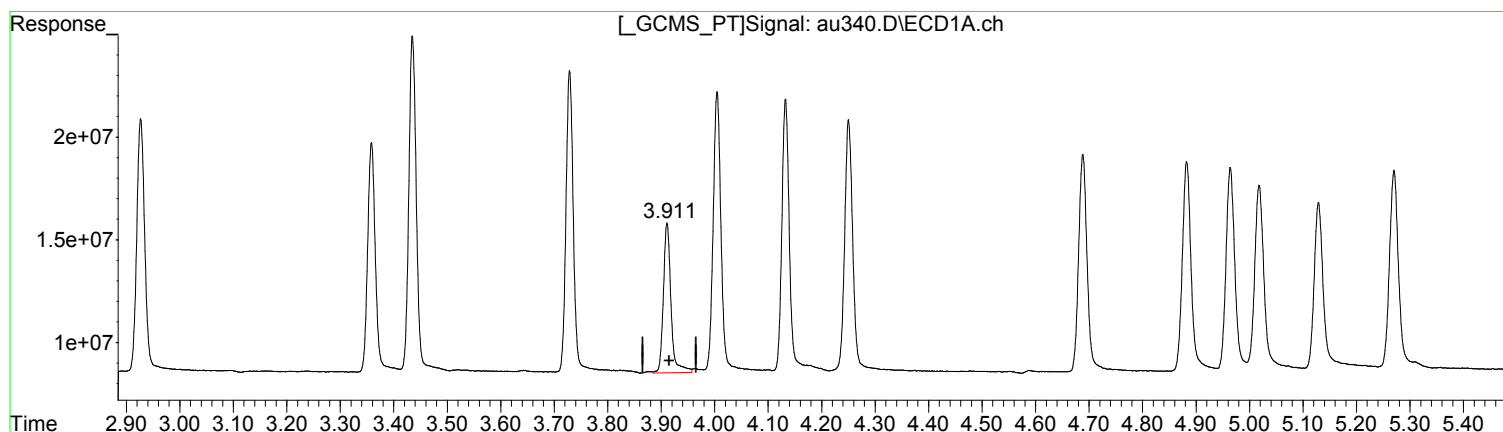
(7) beta-BHC #2 (tc)  
4.398min 5.114 ug/l m  
response 49290553

Manual Integration:  
After  
Poor integration.  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au340.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:50 am  
Operator : m.pedro  
Sample : pest 5 ppb  
Misc : initial cal  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:19 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(7) beta-BHC (tc)  
3.911min 4.221 ug/l  
response 72102440

(7) beta-BHC #2 (tc)  
4.399min 5.251 ug/l  
response 50615317

Manual Integration:  
Before  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au340.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 9:50 am  
 Operator : m.pedro  
 Sample : pest 5 ppb  
 Misc : initial cal  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:29:19 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

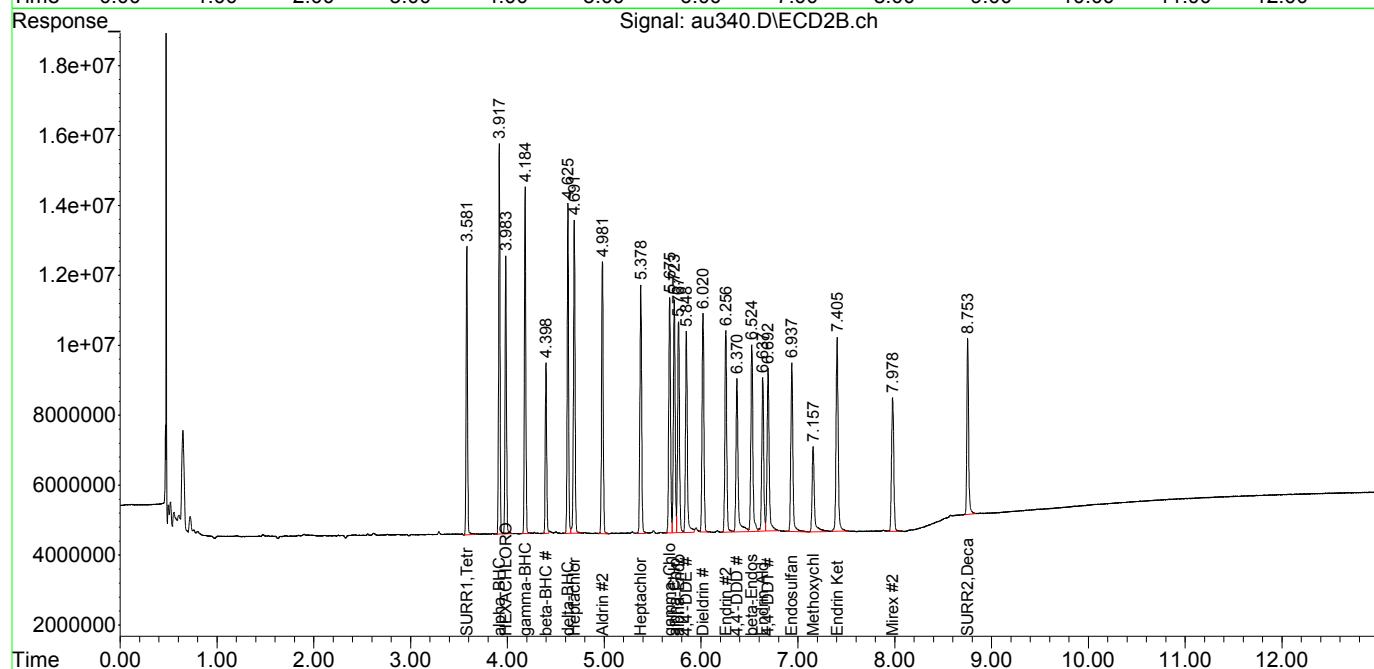
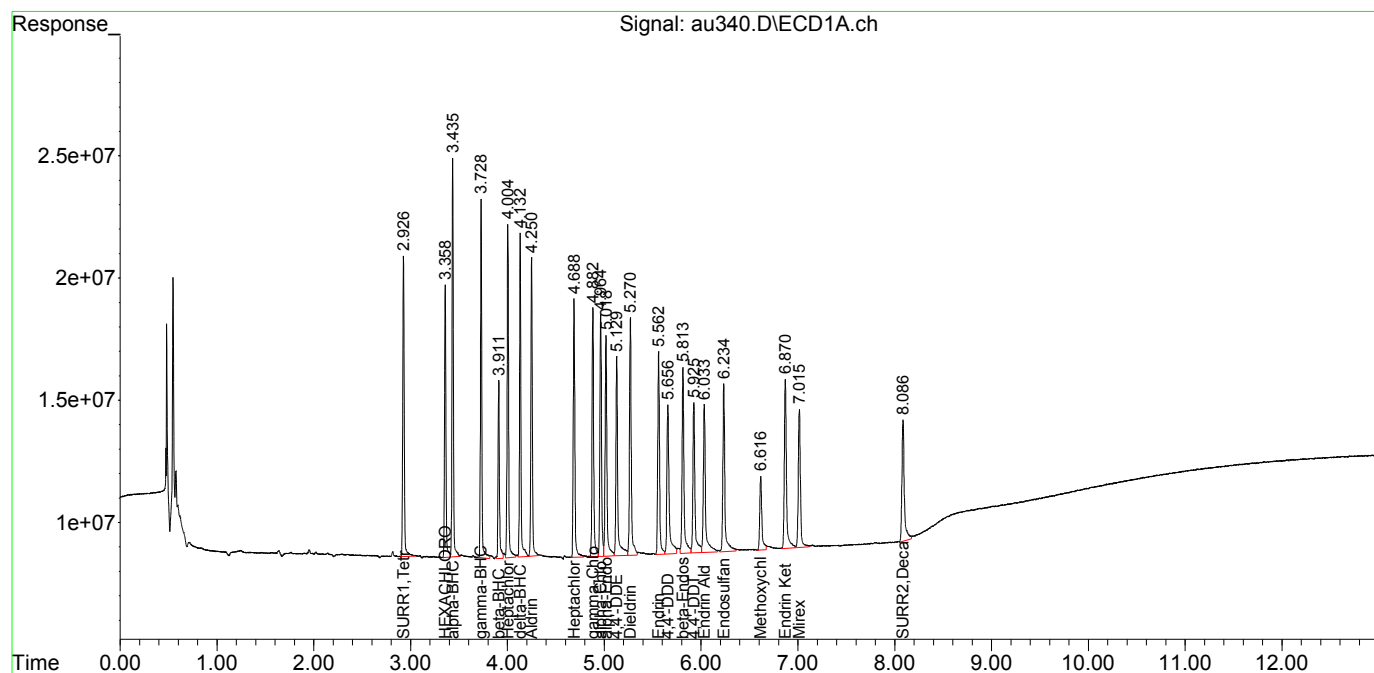
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.927	3.582	130.3E6	81786384	4.635	5.139
Spiked Amount	100.000	Range	30 - 150	Recovery =	4.63%#	5.14%#
26) S SURR2,Dec...	8.086	8.753	84294496	63416482	3.268	4.780 #
Spiked Amount	100.000	Range	30 - 150	Recovery =	3.27%#	4.78%#
Target Compounds						
2) TC HEXACHLOR...	3.359	3.984	112.7E6	79173192	4.329	5.181
3) tc alpha-BHC	3.435	3.917	160.3E6	105.8E6	3.951	4.676
4) tcm gamma-BHC (L	3.729	4.184	143.2E6	98194518	3.872	4.760
5) tcm Heptachlor	4.005	4.691	142.4E6	100.4E6	3.945	4.777
6) tcm Aldrin	4.250	4.982	129.0E6	89353018	3.597	4.553 #
7) tc beta-BHC	3.911	4.398	72102440	49290553	4.221	5.114m
8) tc delta-BHC	4.133	4.625	132.6E6	95782467	3.596	4.601 #
9) tc Heptachlor E	4.689	5.378	119.8E6	87970220	3.611	4.739 #
10) tc alpha-Endosu	5.018	5.768	116.1E6	78846167	3.810	4.693
11) tc gamma-Chlord	4.883	5.676	118.4E6	85139044	3.385	4.492 #
12) tc alpha-Chlord	4.964	5.724	114.8E6	84989631	3.497	4.590 #
13) tc 4,4'-DDE	5.129	5.849	109.9E6	75882412	3.412	4.250
14) tcm Dieldrin	5.270	6.020	122.5E6	83424810	3.569	4.536 #
15) tcm Endrin	5.562	6.256	104.0E6	76372253	3.423	4.769 #
17) tc beta-Endosul	5.813	6.524	106.6E6	77762951	3.497	4.756 #
18) tc 4,4'-DDD	5.657	6.370	97119593	67332916	3.524	4.339
19) tcm 4,4'-DDT	5.926	6.693	92008713	69369861	3.189	4.207 #
20) tc Endrin Aldeh	6.033	6.637	95410756	61673160	3.608	4.622 #
21) tc Endosulfan S	6.235	6.937	100.3E6	70801865	3.509	4.701 #
22) tc Methoxychlor	6.616	7.157	45705503	41401435	3.016	4.676 #
24) tc Endrin Keton	6.870	7.405	107.7E6	83363240	3.200	4.622 #
25) tc Mirex	7.015	7.978	86524902	60613157	3.565	4.905 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au340.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 9:50 am  
Operator : m.pedro  
Sample : pest 5 ppb  
Misc : initial cal  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:19 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

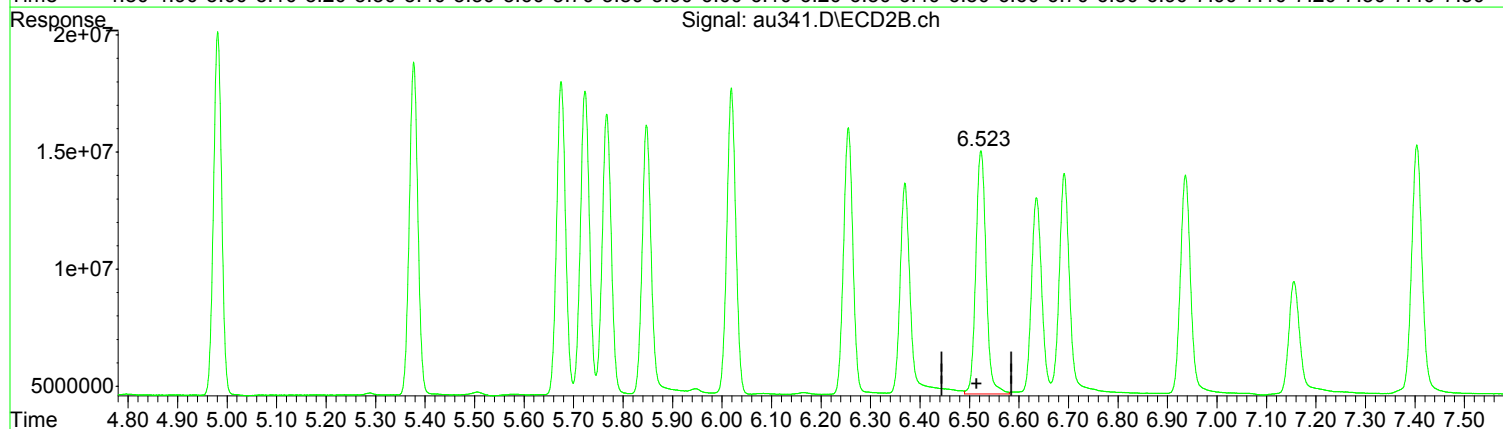
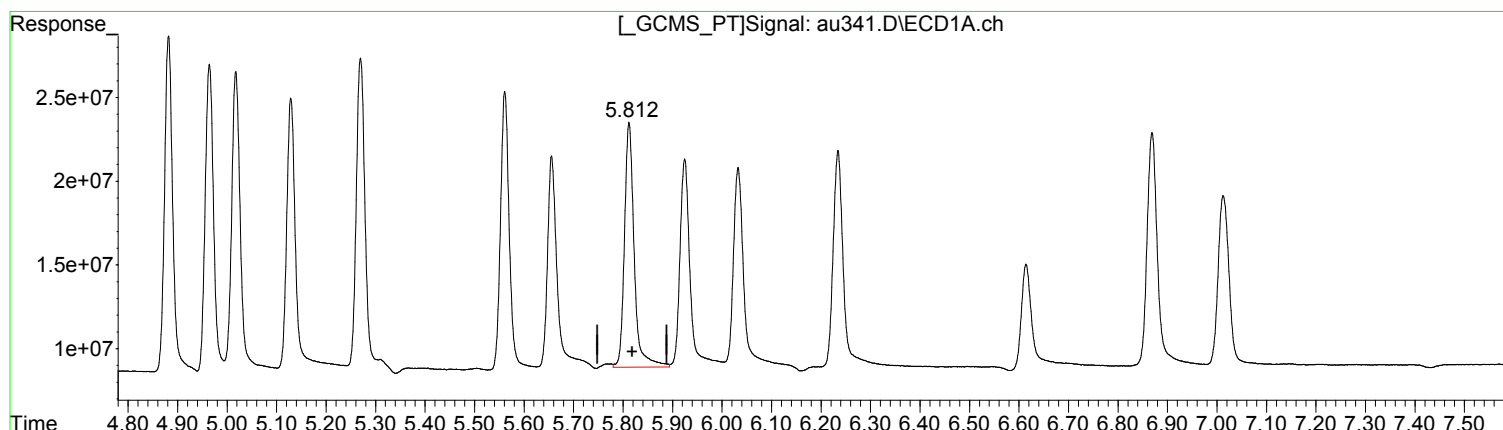
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)  
5.812min 6.547 ug/l m  
response 199551337

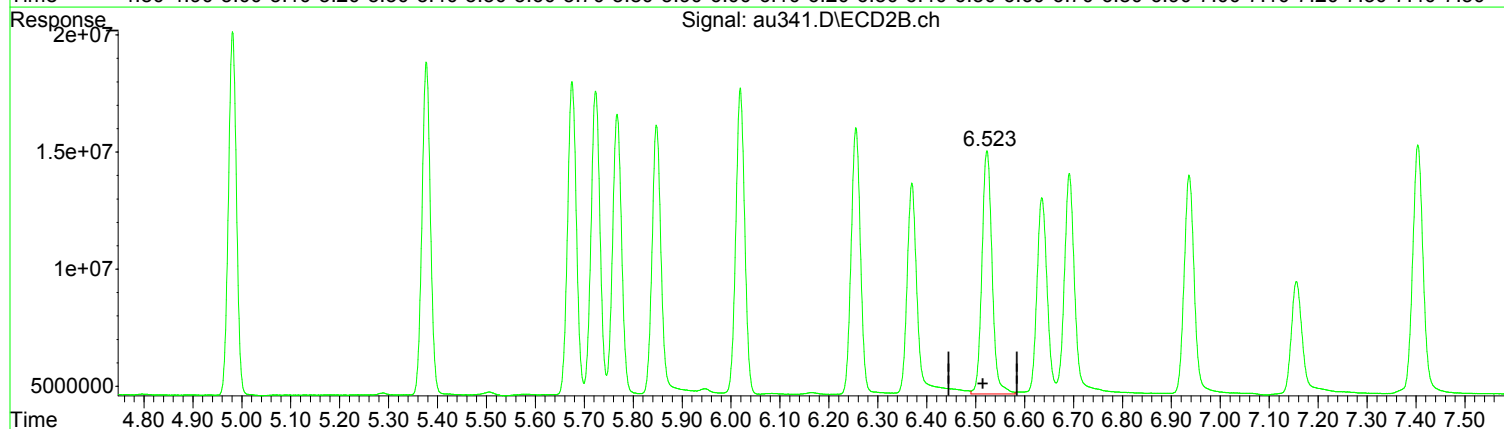
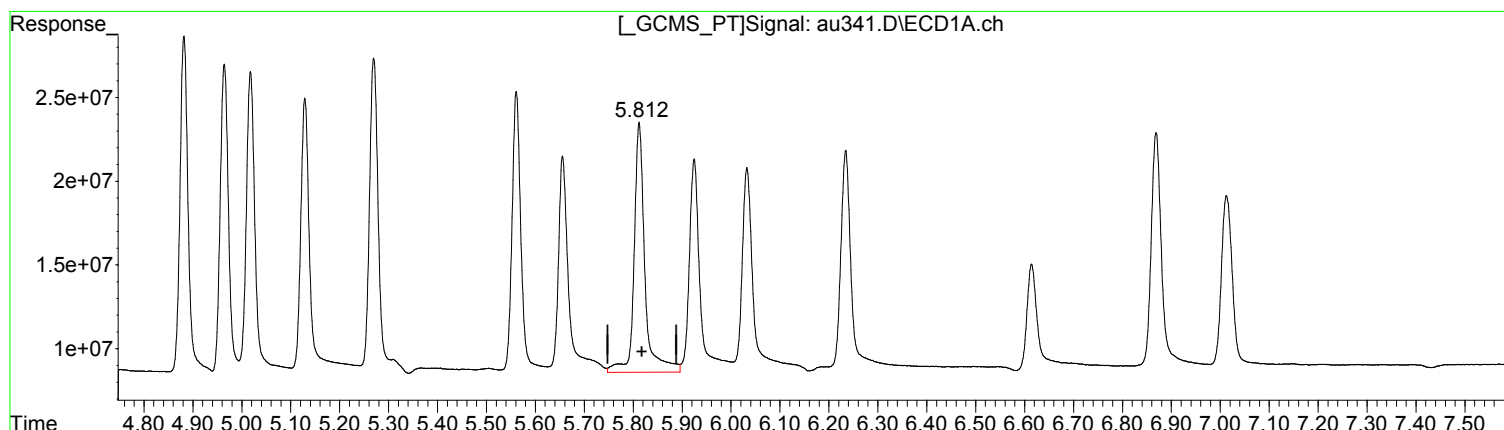
(17) beta-Endosul #2 (tc)  
6.523min 9.166 ug/l  
response 149856955

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(17) beta-Endosul (tc)  
5.812min 7.513 ug/l  
response 229011248

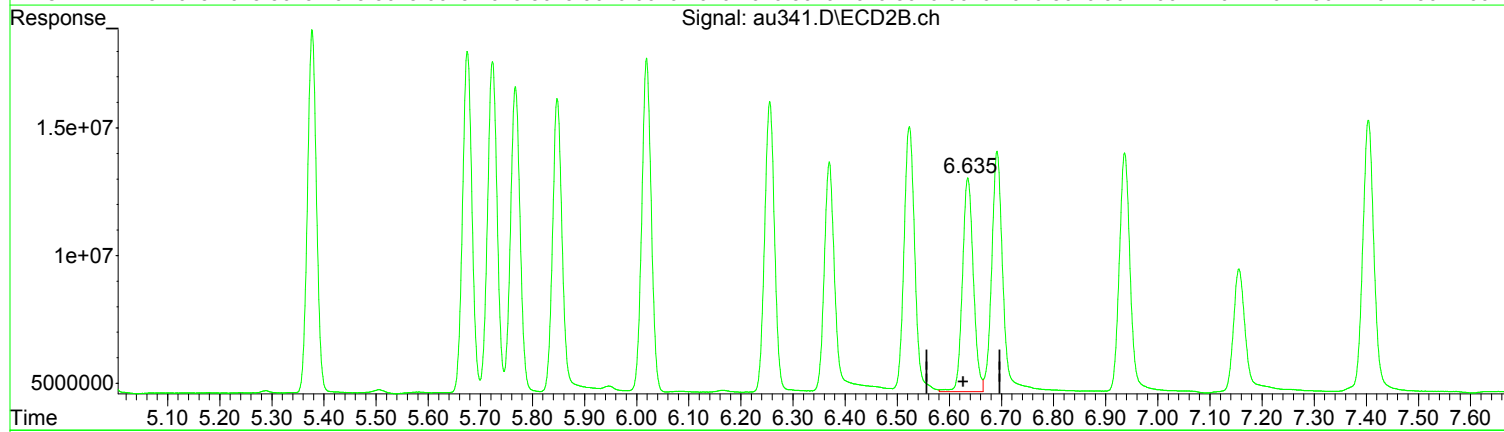
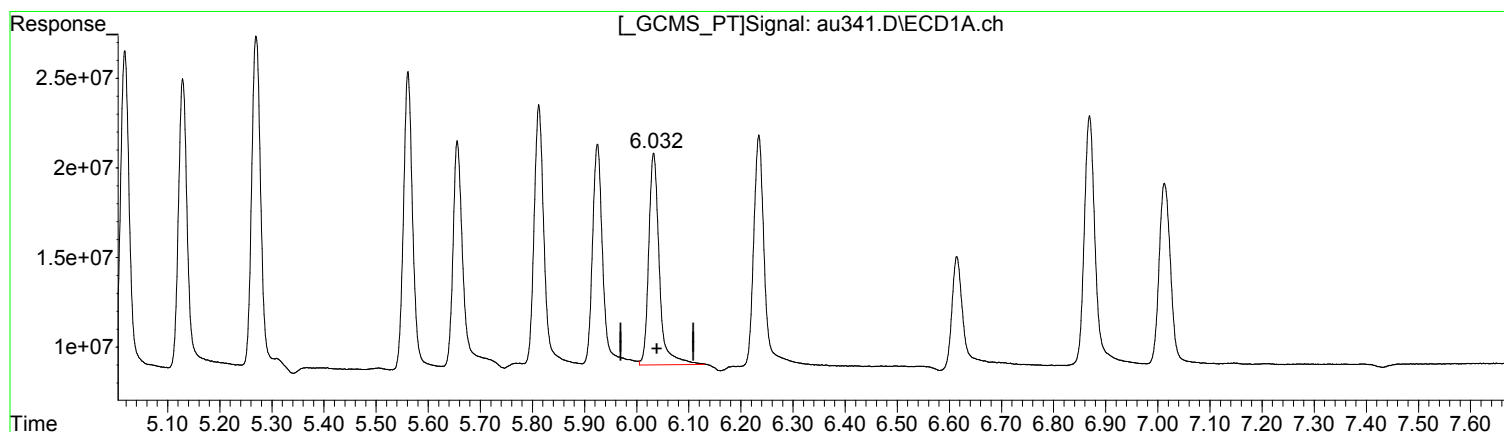
(17) beta-Endosul #2 (tc)  
6.523min 9.166 ug/l  
response 149856955

Manual Integration:  
Before  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)  
6.032min 6.335 ug/l m  
response 167526805

(20) Endrin Aldeh #2 (tc)  
6.636min 9.117 ug/l  
response 121644064

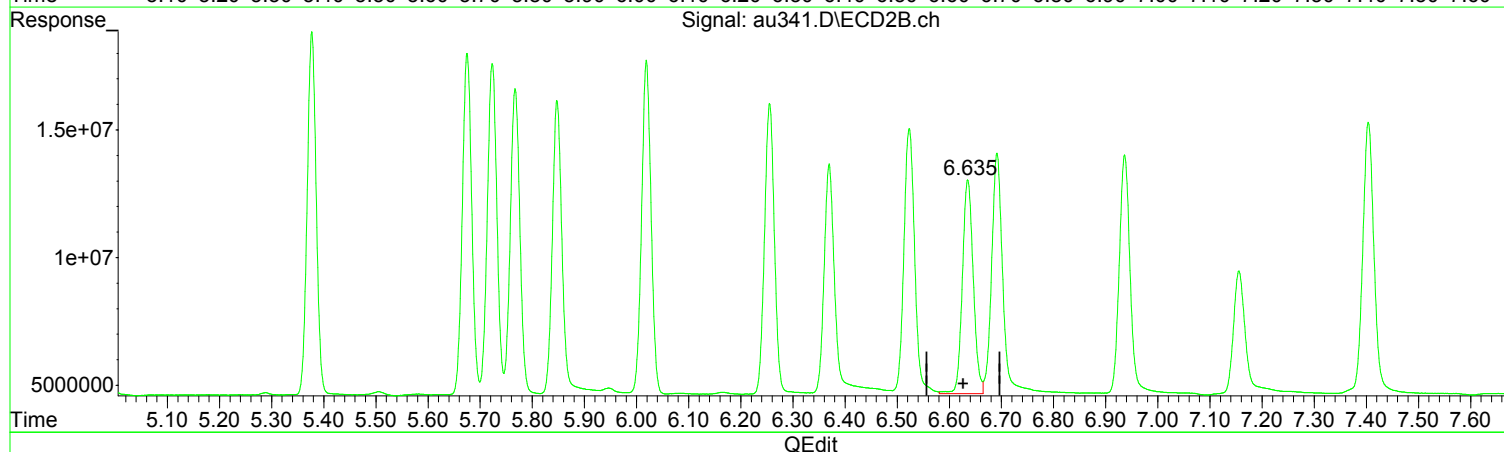
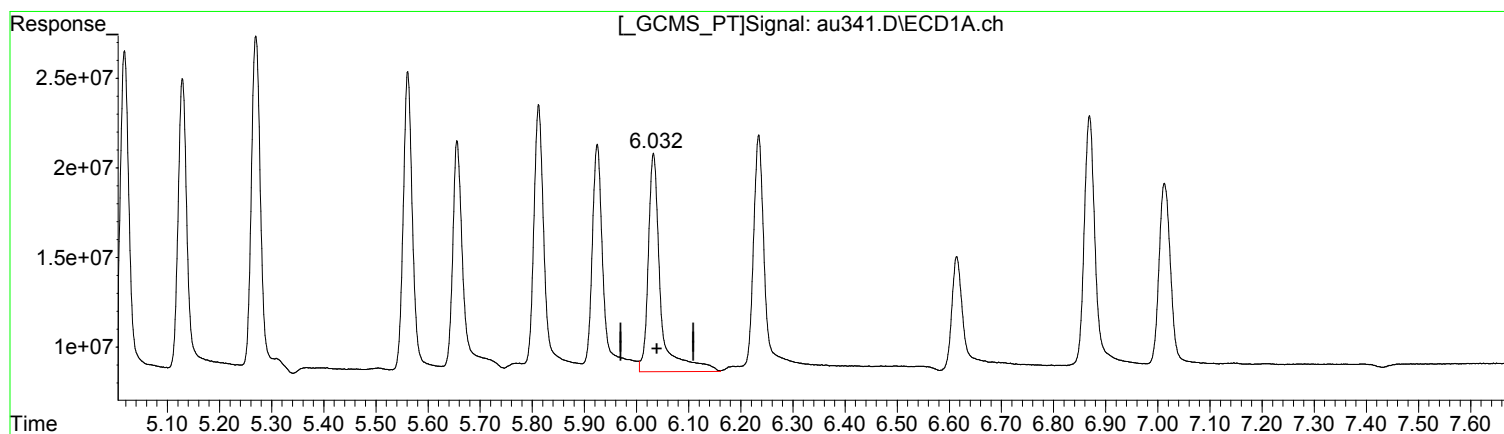
Manual Integration:  
After  
Poor integration.  
01/08/18



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(20) Endrin Aldeh (tc)  
6.033min 7.578 ug/l  
response 200396362

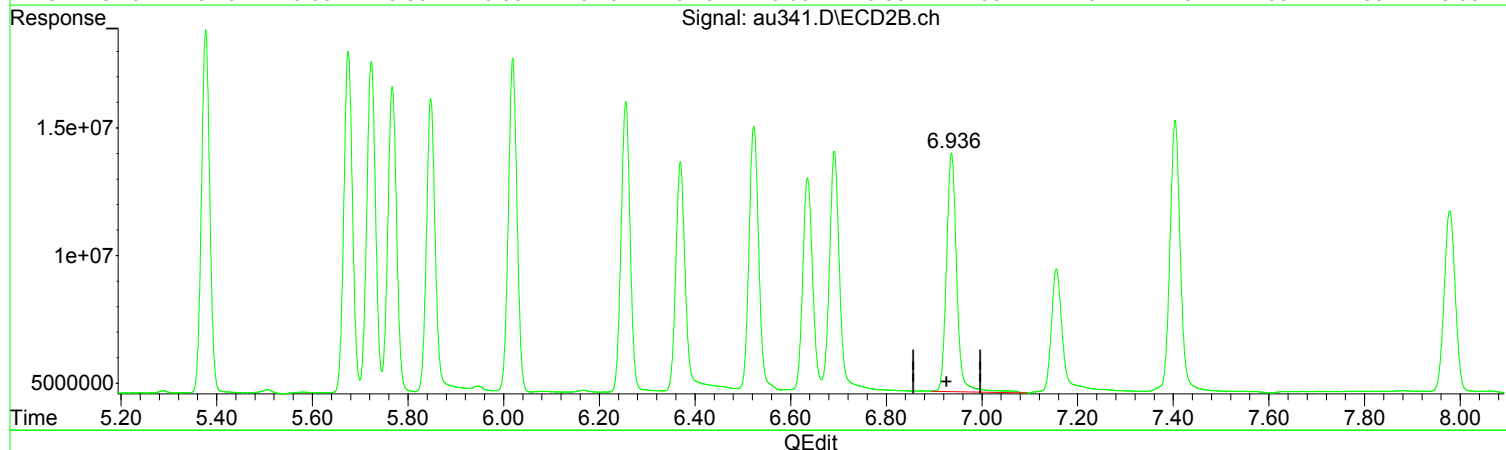
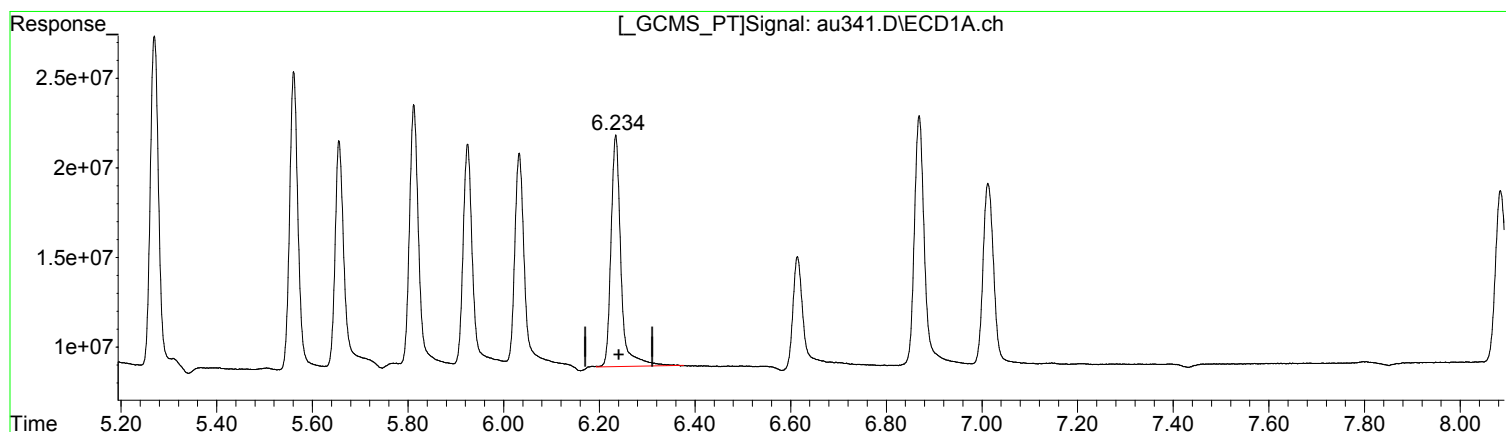
(20) Endrin Aldeh #2 (tc)  
6.636min 9.117 ug/l  
response 121644064

Manual Integration:  
Before  
  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endosulfan S (tc)  
6.234min 6.514 ug/l m  
response 186130645

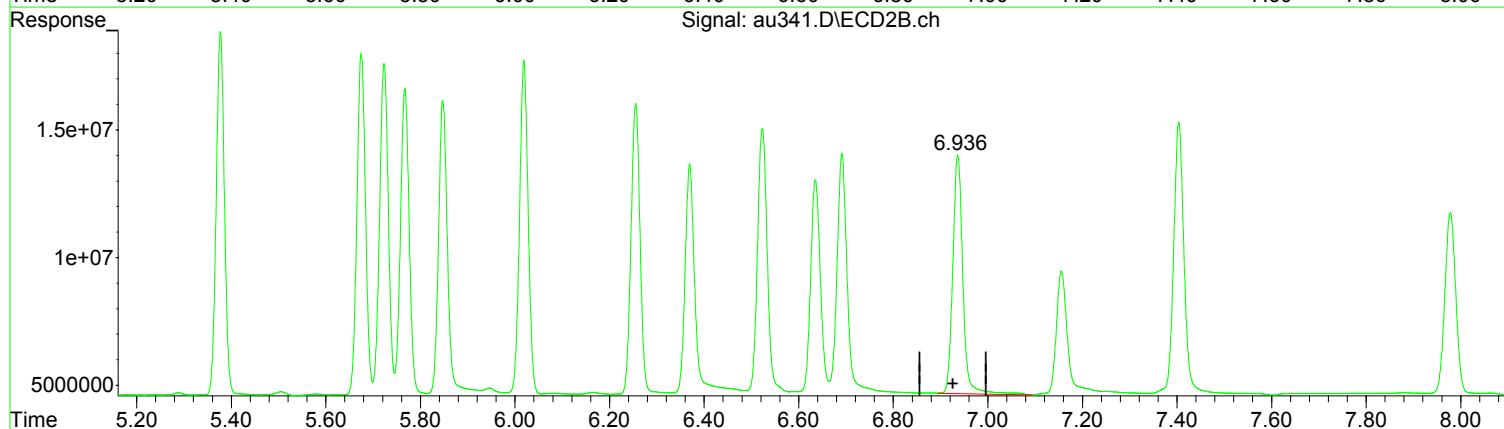
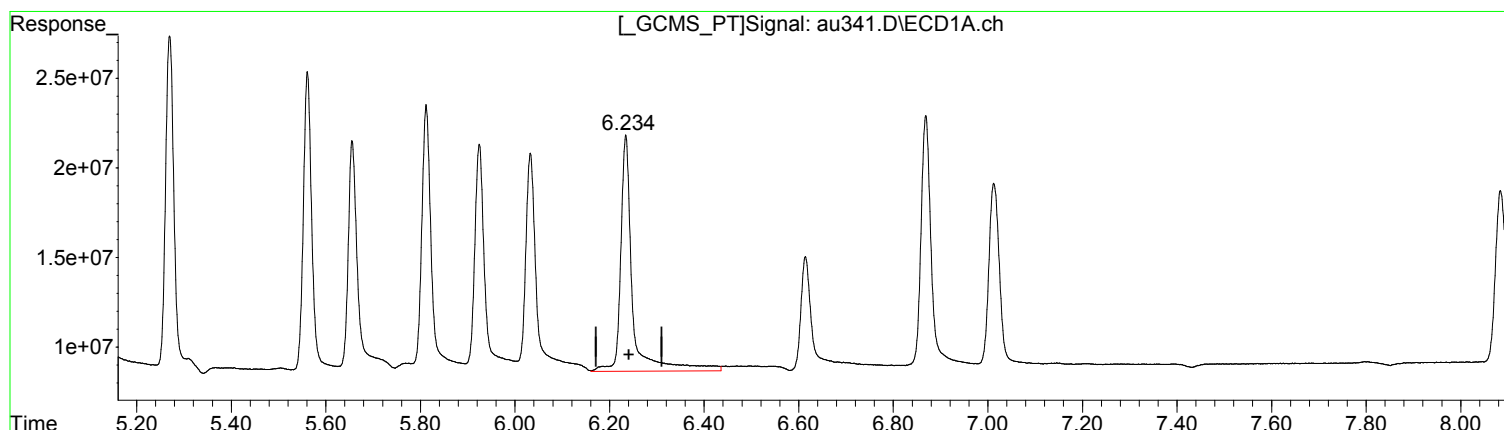
(21) Endosulfan S #2 (tc)  
6.936min 9.186 ug/l  
response 138356680

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(21) Endosulfan S (tc)  
6.234min 8.036 ug/l  
response 229612475

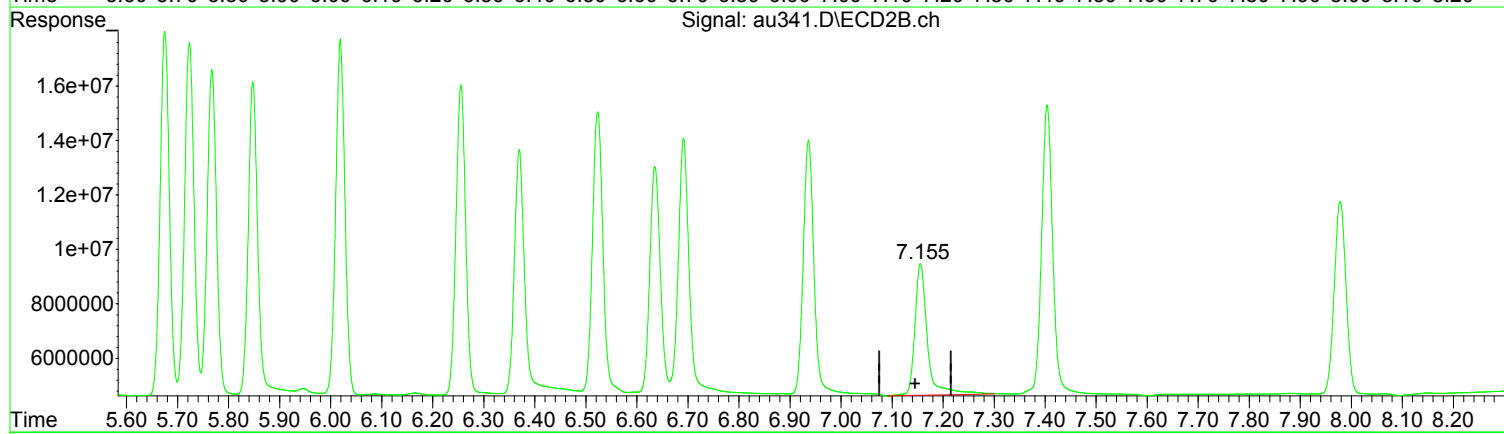
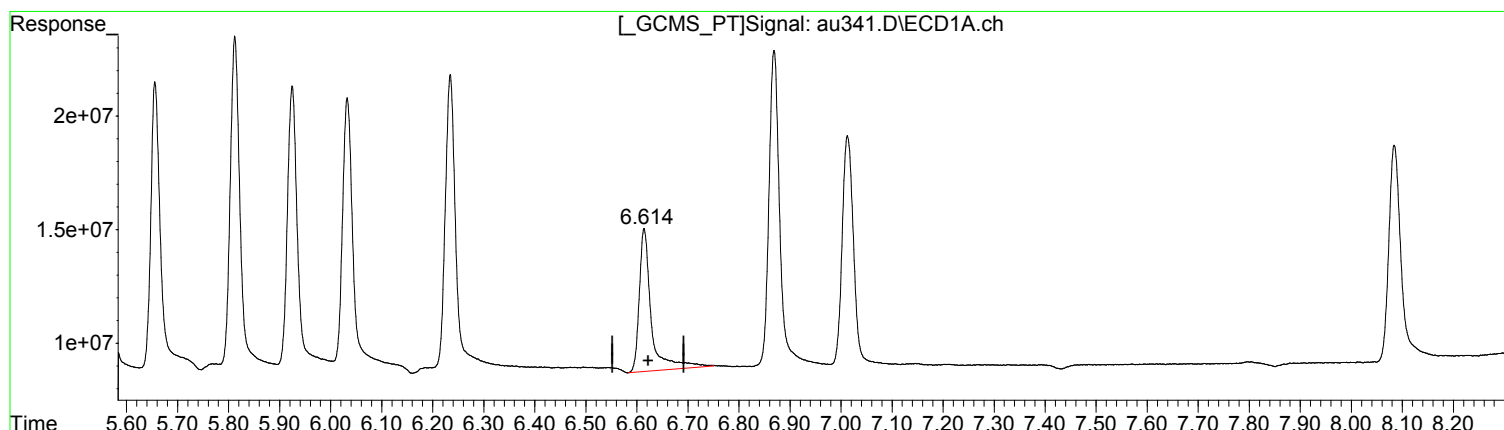
(21) Endosulfan S #2 (tc)  
6.936min 9.186 ug/l  
response 138356680

Manual Integration:  
Before  
  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(22) Methoxychlor (tc)  
6.614min 6.807 ug/l m  
response 103163238

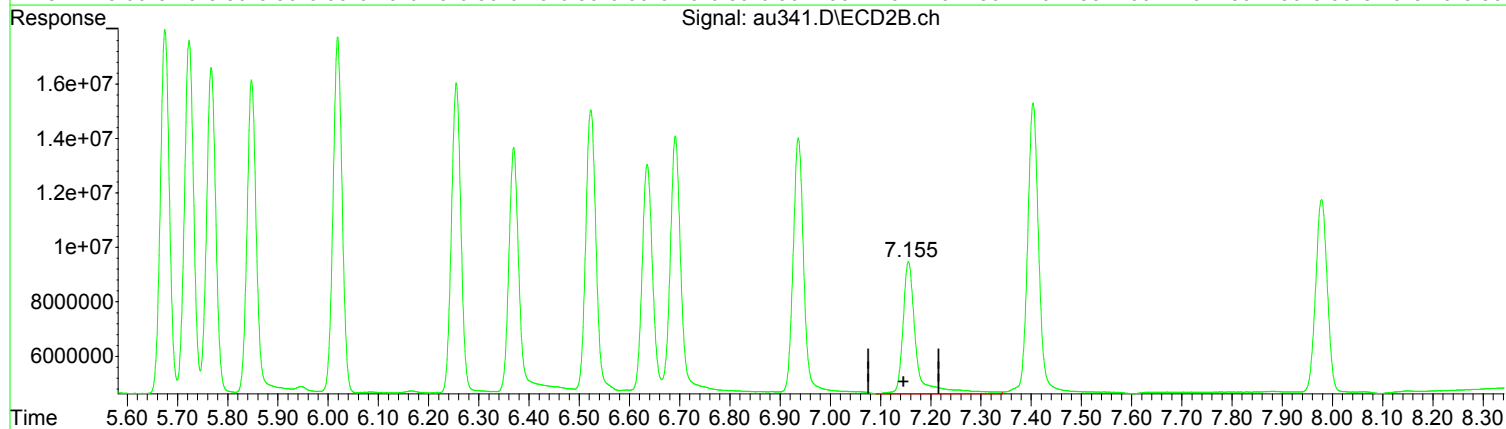
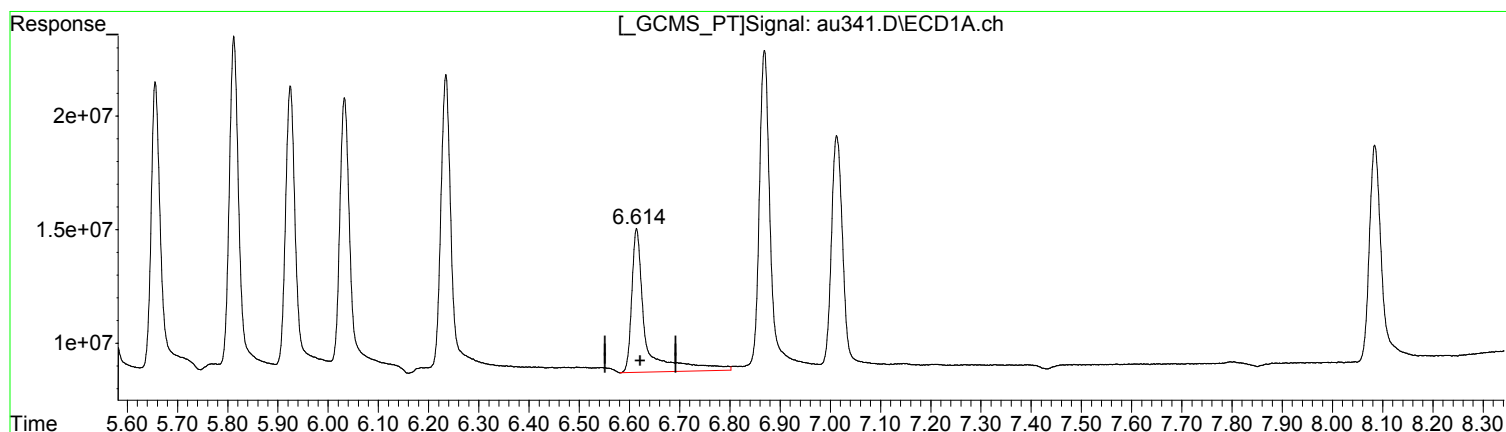
(22) Methoxychlor #2 (tc)  
7.155min 9.287 ug/l m  
response 82228712

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(22) Methoxychlor (tc)  
6.614min 7.893 ug/l  
response 119623068

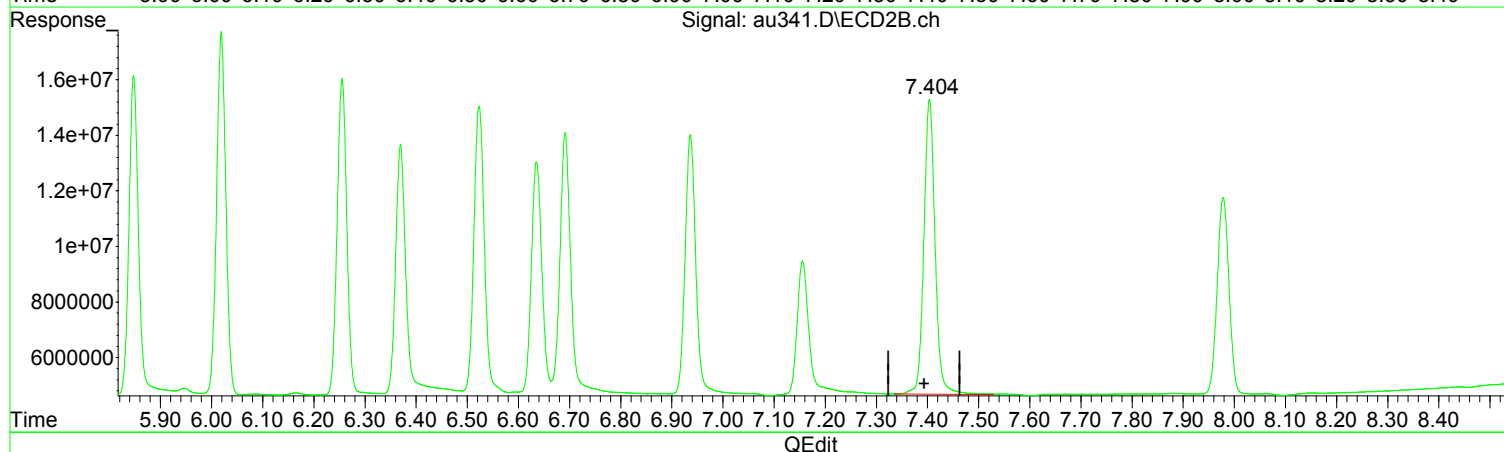
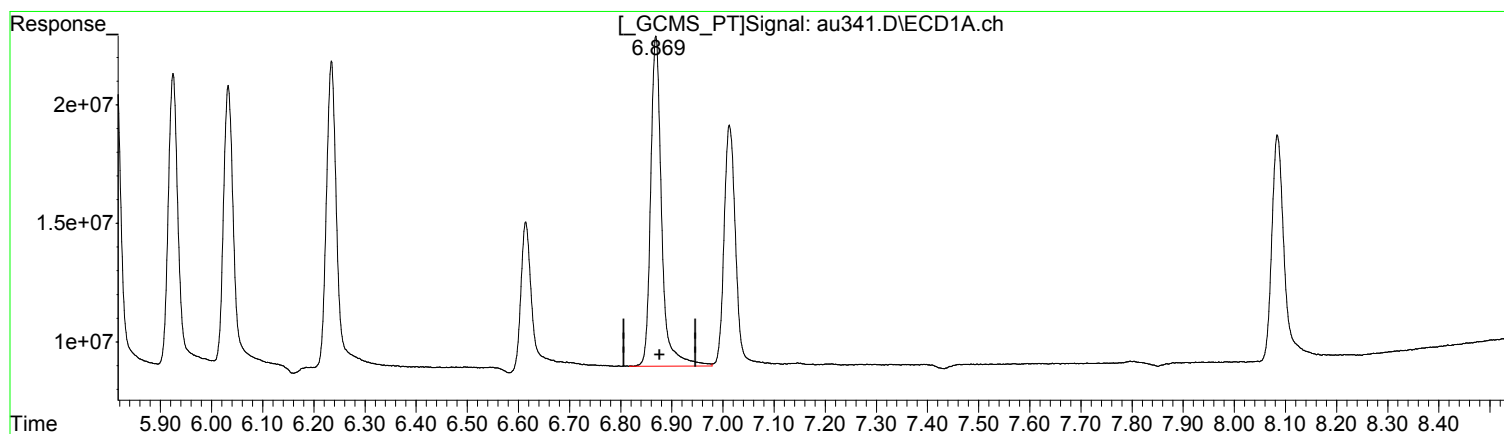
(22) Methoxychlor #2 (tc)  
7.156min 10.018 ug/l  
response 88697768

Manual Integration:  
Before  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(24) Endrin Keton (tc)  
6.869min 6.178 ug/l m  
response 207865683

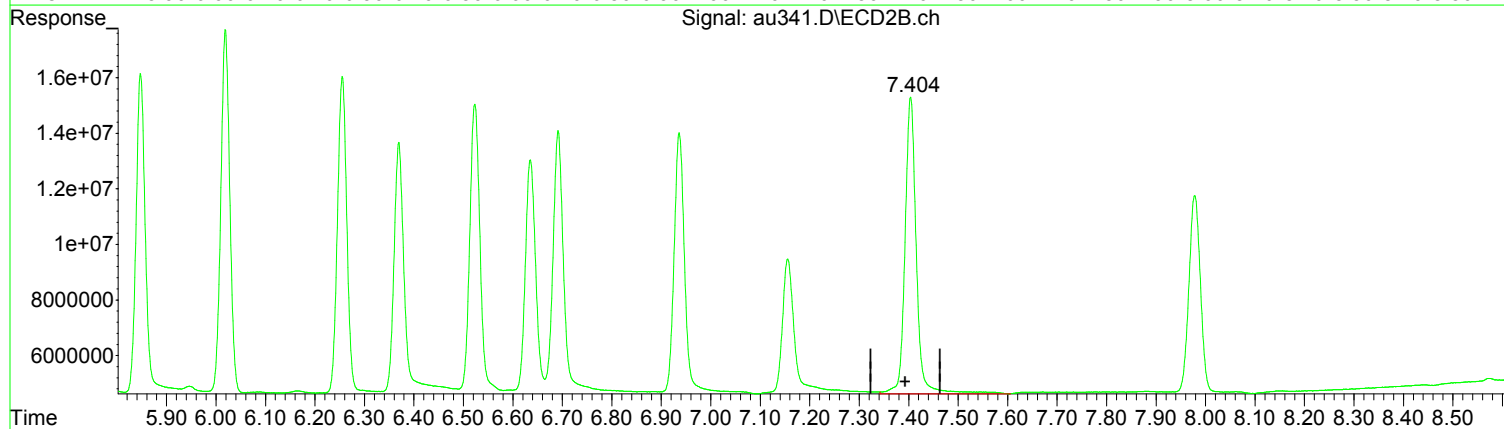
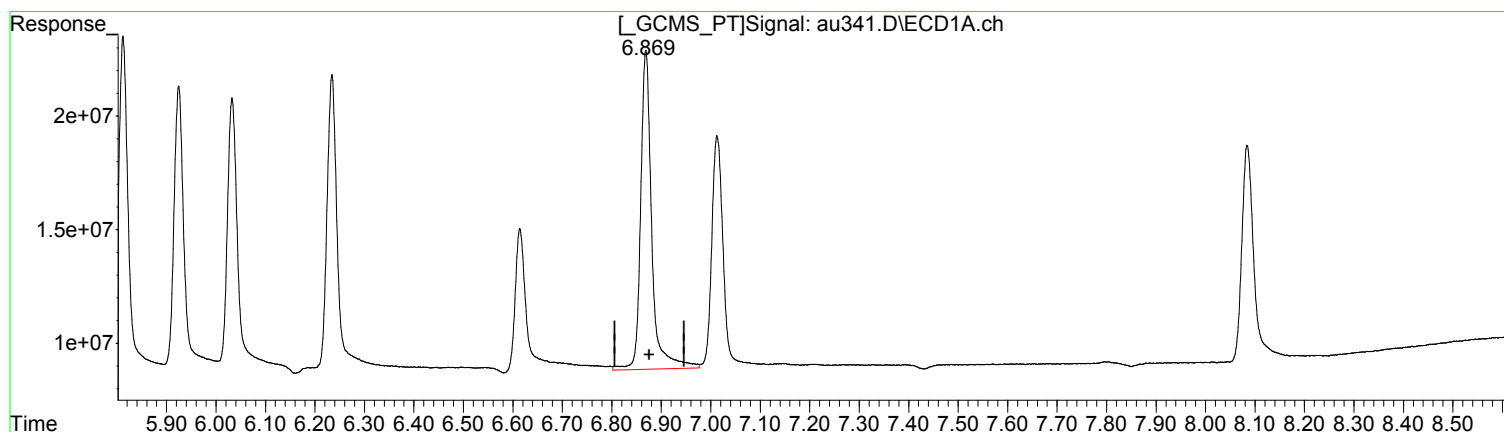
(24) Endrin Keton #2 (tc)  
7.404min 8.972 ug/l m  
response 161815931

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(24) Endrin Keton (tc)  
6.869min 6.524 ug/l  
response 219489378

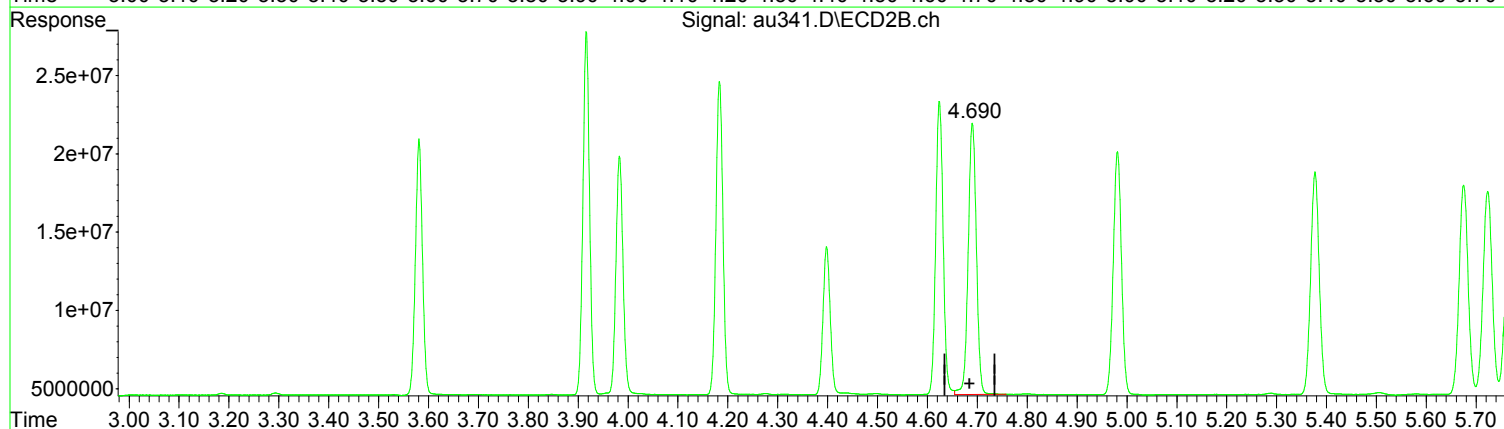
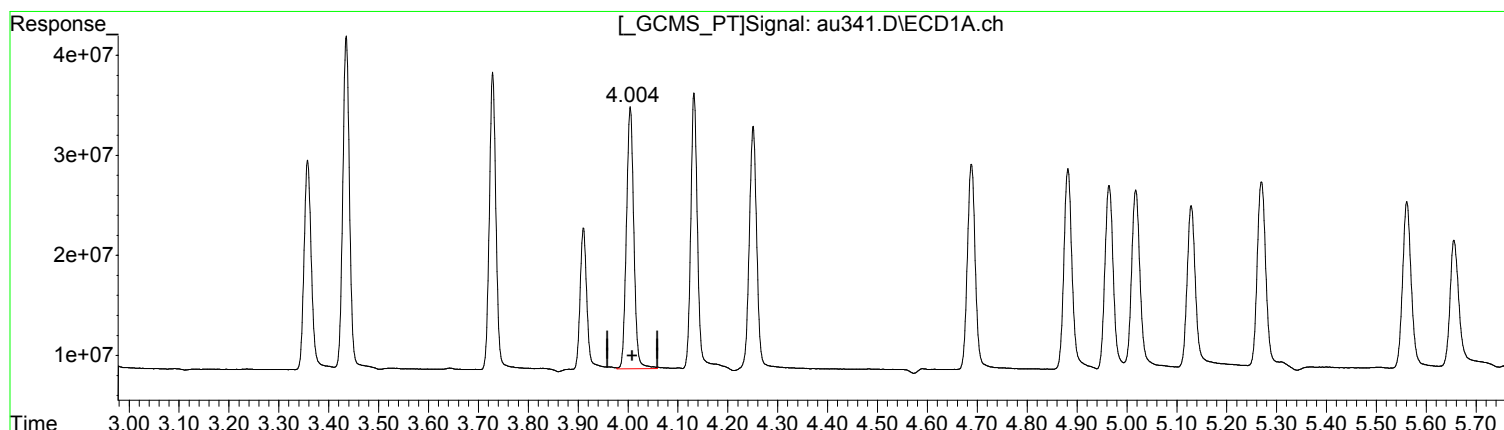
(24) Endrin Keton #2 (tc)  
7.404min 9.439 ug/l  
response 170234715

Manual Integration:  
Before  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)  
4.004min 7.458 ug/l m  
response 269155027

(5) Heptachlor #2 (tcm)  
4.690min 9.402 ug/l  
response 197691021

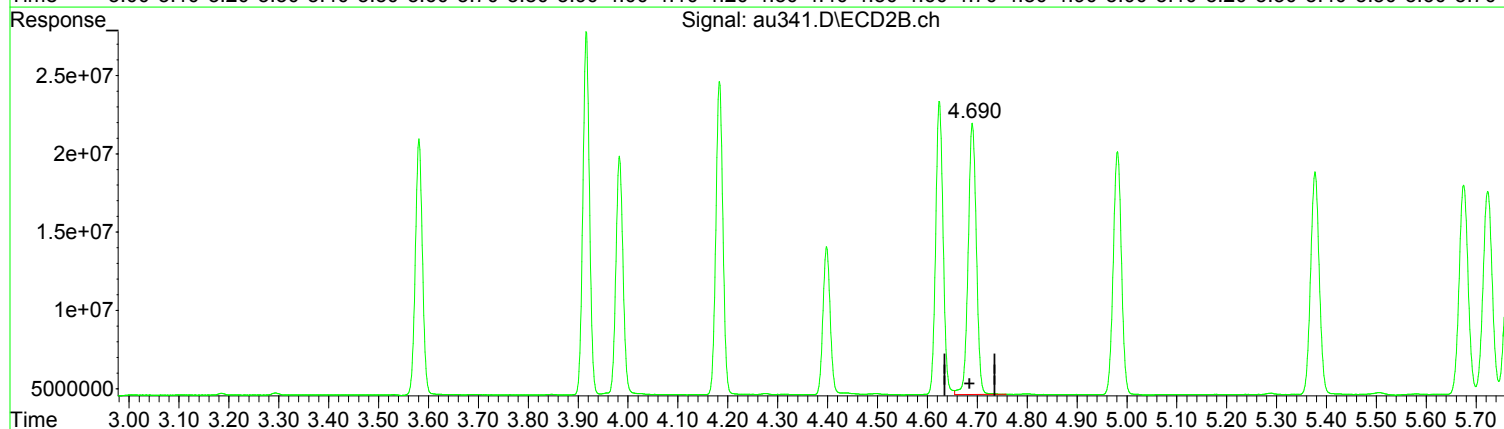
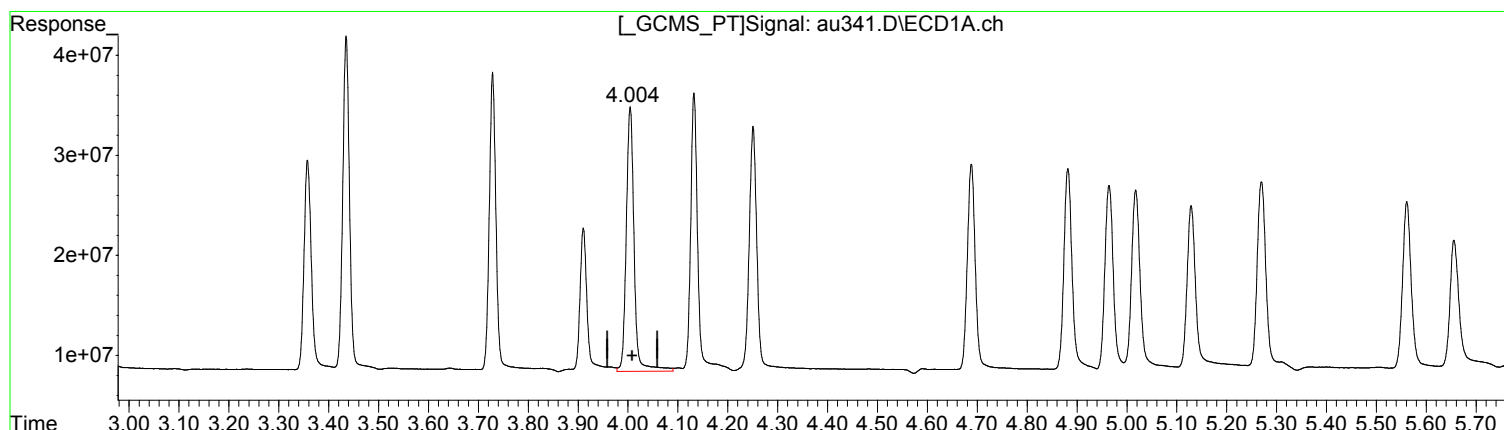
Manual Integration:  
After  
Poor integration.  
01/08/18



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(5) Heptachlor (tcm)  
4.005min 7.962 ug/l  
response 287334583

(5) Heptachlor #2 (tcm)  
4.690min 9.402 ug/l  
response 197691021

Manual Integration:  
Before  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au341.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 10:08 am  
 Operator : m.pedro  
 Sample : pest 10 ppb  
 Misc : initial cal  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:29:23 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

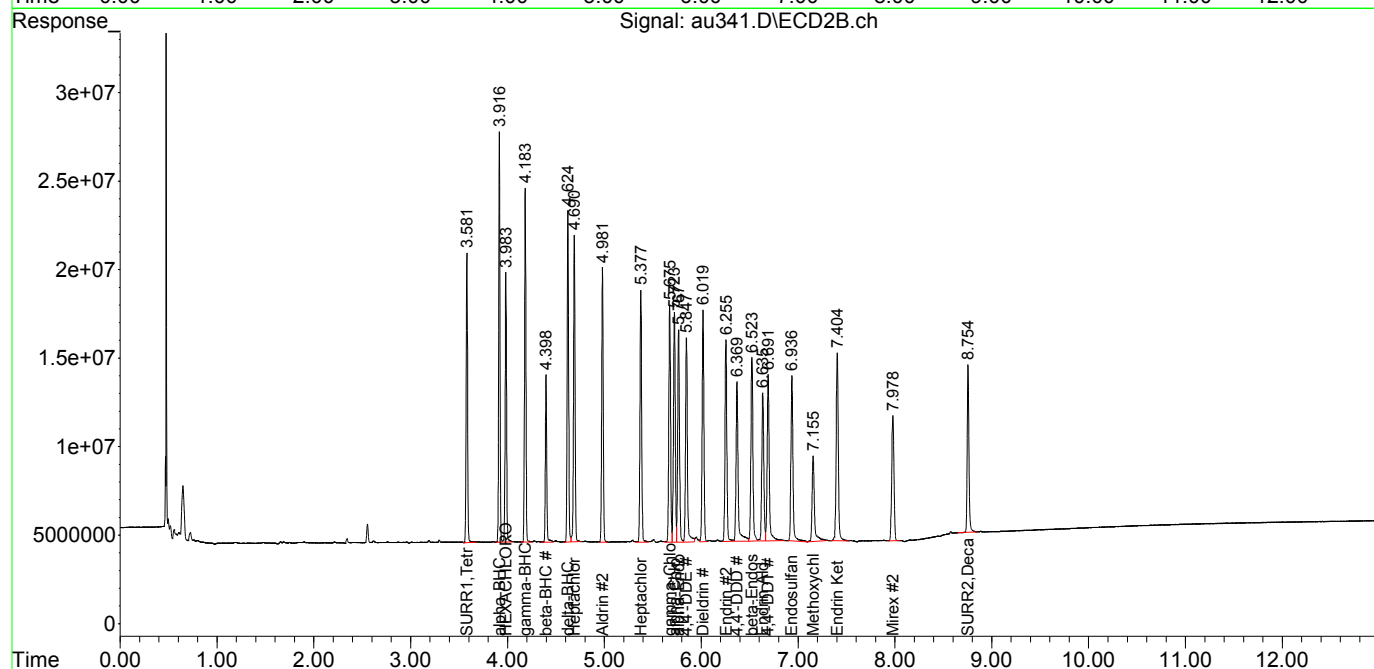
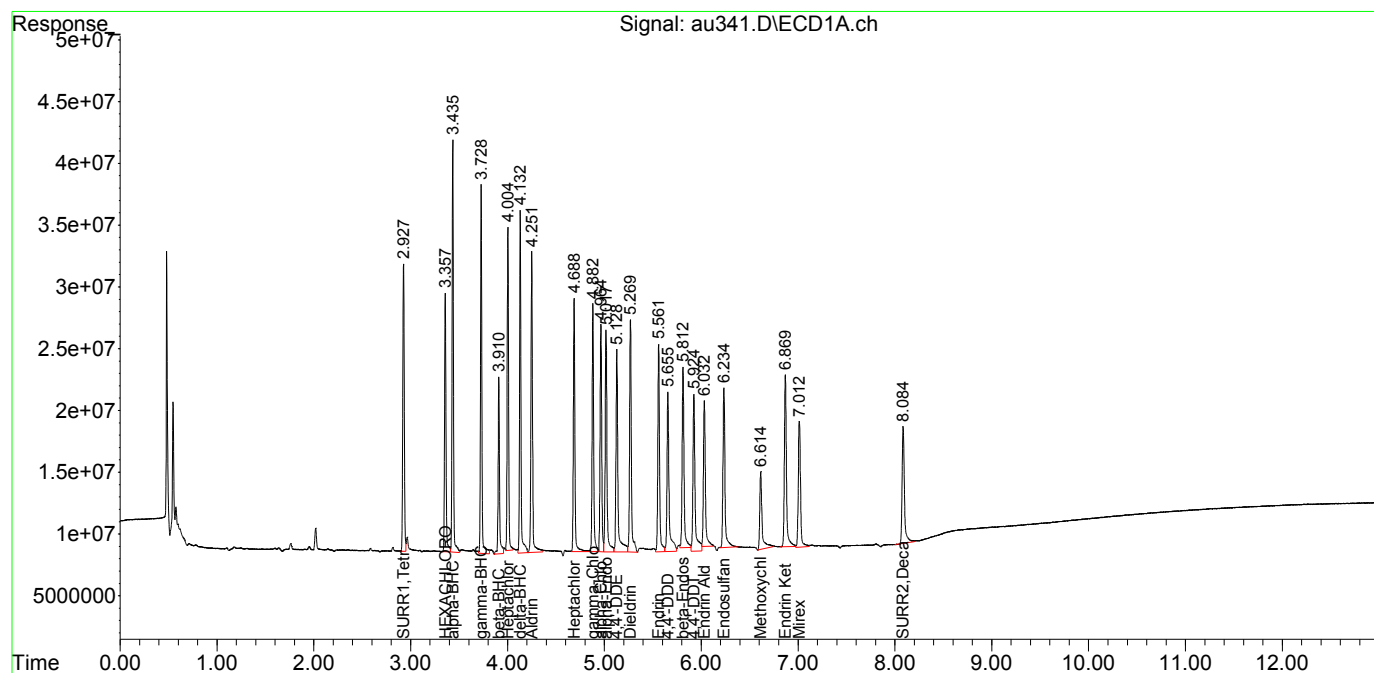
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.927	3.581	240.8E6	162.2E6	8.569	10.191
Spiked Amount	100.000 Range	30 - 150	Recovery =		8.57%#	10.19%#
26) S SURR2,Dec...	8.084	8.754	160.5E6	117.5E6	6.221	8.854 #
Spiked Amount	100.000 Range	30 - 150	Recovery =		6.22%#	8.85%#
Target Compounds						
2) TC HEXACHLOR...	3.358	3.983	216.8E6	152.0E6	8.331	9.947
3) tc alpha-BHC	3.435	3.917	322.5E6	213.4E6	7.949	9.430
4) tcm gamma-BHC (L	3.729	4.184	287.7E6	195.8E6	7.780	9.490
5) tcm Heptachlor	4.004	4.690	269.2E6	197.7E6	7.458m	9.402 #
6) tcm Aldrin	4.251	4.981	268.3E6	178.3E6	7.481	9.086
7) tc beta-BHC	3.911	4.398	145.0E6	97399306	8.490	10.105
8) tc delta-BHC	4.132	4.624	272.5E6	193.7E6	7.389	9.304 #
9) tc Heptachlor E	4.688	5.377	234.9E6	173.7E6	7.083	9.357 #
10) tc alpha-Endosu	5.018	5.767	229.7E6	155.1E6	7.538	9.229
11) tc gamma-Chlord	4.882	5.675	233.6E6	169.4E6	6.675	8.937 #
12) tc alpha-Chlord	4.964	5.723	216.7E6	166.7E6	6.601	9.004 #
13) tc 4,4'-DDE	5.129	5.848	227.9E6	154.4E6	7.074	8.648
14) tcm Dieldrin	5.270	6.019	245.9E6	166.2E6	7.162	9.037 #
15) tcm Endrin	5.561	6.255	215.4E6	151.8E6	7.088	9.480 #
17) tc beta-Endosul	5.812	6.523	199.6E6	149.9E6	6.547m	9.166 #
18) tc 4,4'-DDD	5.656	6.370	193.1E6	134.8E6	7.005	8.686
19) tcm 4,4'-DDT	5.925	6.692	196.9E6	140.8E6	6.824	8.536 #
20) tc Endrin Aldeh	6.032	6.636	167.5E6	121.6E6	6.335m	9.117 #
21) tc Endosulfan S	6.234	6.936	186.1E6	138.4E6	6.514m	9.186 #
22) tc Methoxychlor	6.614	7.155	103.2E6	82228712	6.807m	9.287m#
24) tc Endrin Keton	6.869	7.404	207.9E6	161.8E6	6.178m	8.972m#
25) tc Mirex	7.013	7.978	163.7E6	114.0E6	6.743	9.229 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au341.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:08 am  
Operator : m.pedro  
Sample : pest 10 ppb  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:23 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

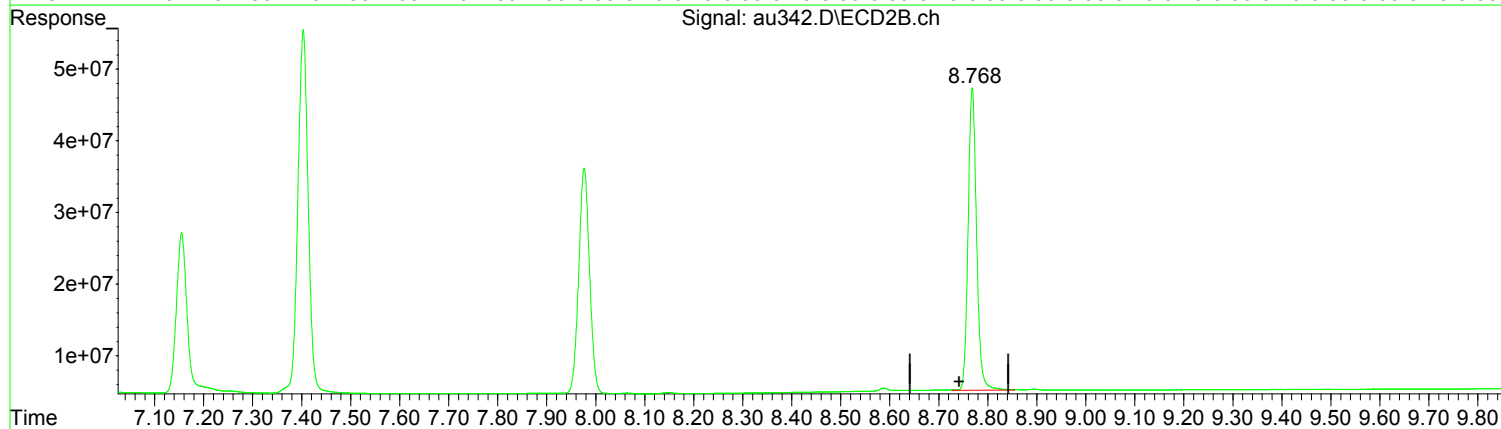
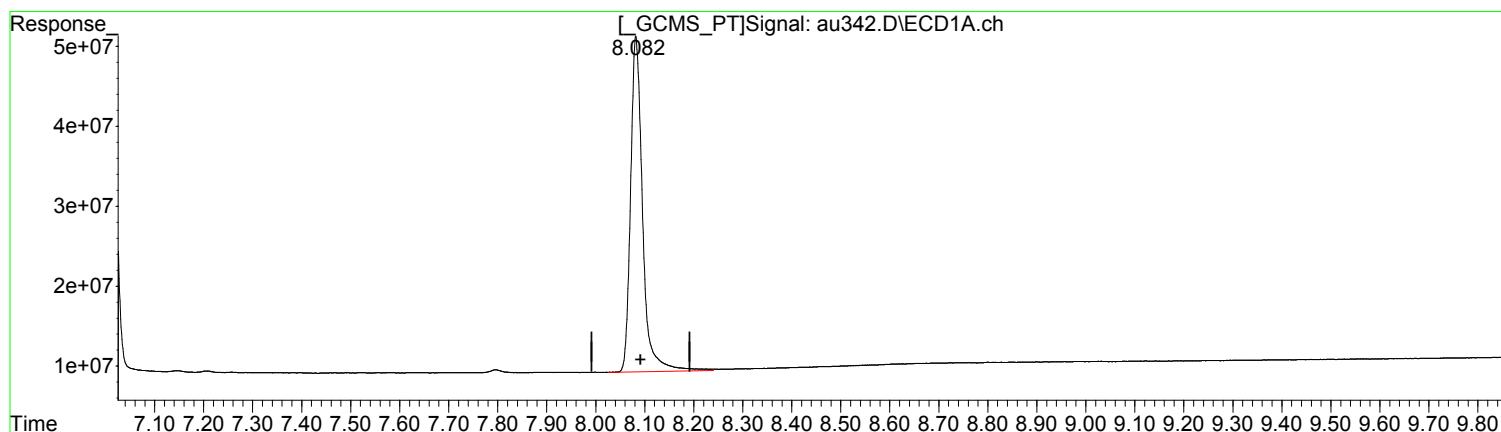
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au342.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:26 am  
Operator : m.pedro  
Sample : pest 50 ppb  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:27 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(26) SURRE2,Decachlorobiphenyl (S)  
8.082min 27.662 ug/l  
response 713620641

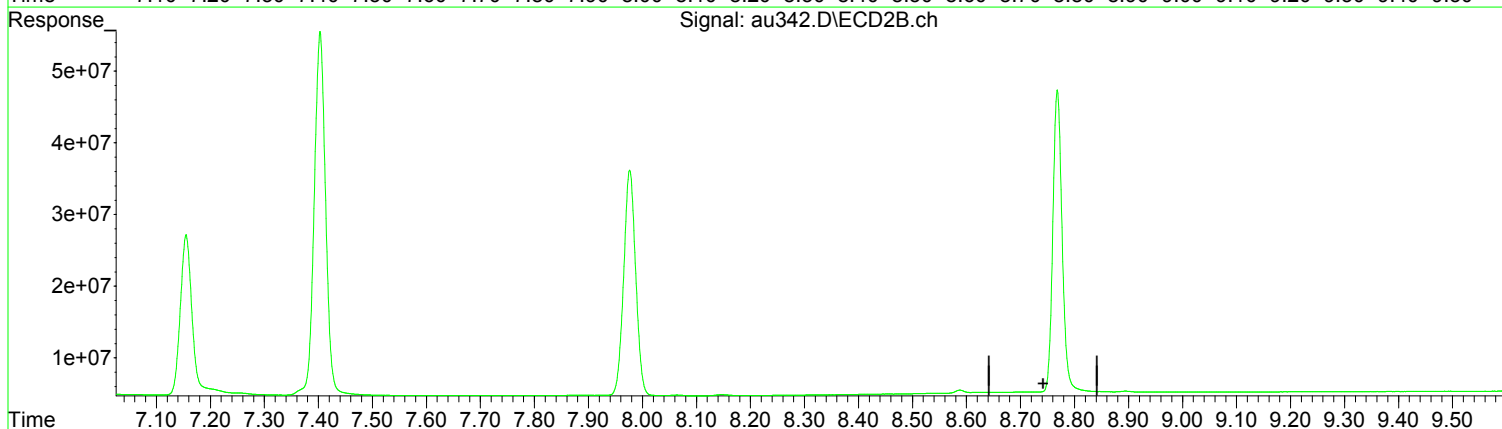
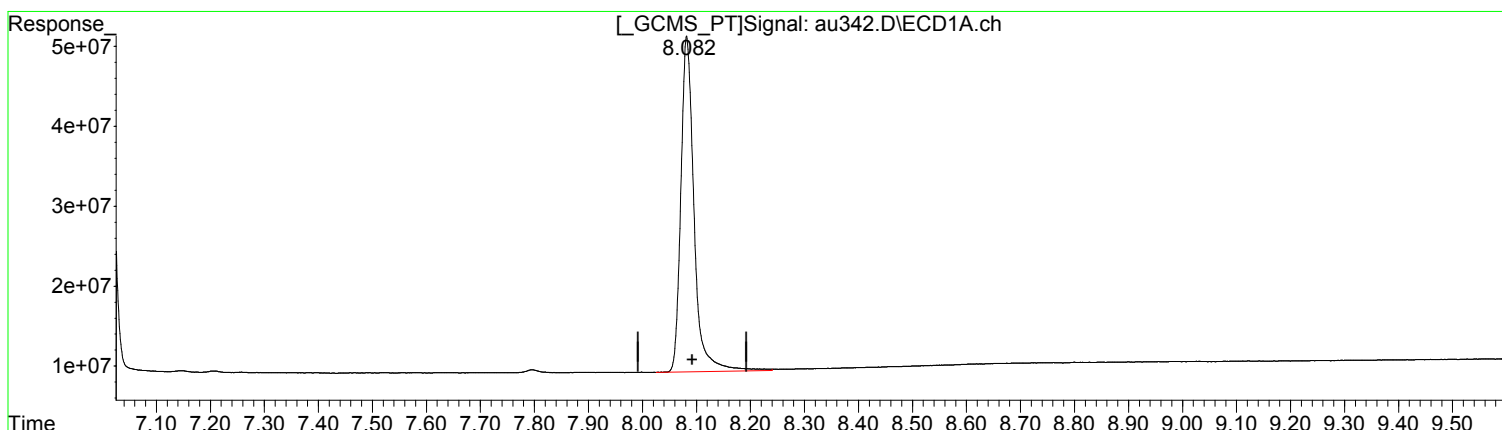
(26) SURRE2,Decachlorobiphenyl #2 (S)  
8.768min 38.222 ug/l m  
response 507052187

Manual Integration:  
After  
Poor integration.  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au342.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:26 am  
Operator : m.pedro  
Sample : pest 50 ppb  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:27 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(26) SURRE2,Decachlorobiphenyl (S)  
8.082min 27.662 ug/l  
response 713620641

(26) SURRE2,Decachlorobiphenyl #2 (S)  
0.000min 0.000 ug/l  
response 0

Manual Integration:  
Before  
  
01/08/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au342.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 10:26 am  
 Operator : m.pedro  
 Sample : pest 50 ppb  
 Misc : initial cal  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:29:27 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.926	3.581	1086.8E6	736.8E6	38.671	46.298
Spiked Amount	100.000 Range	30 - 150	Recovery =	38.67%	46.30%	
26) S SURR2,Dec...	8.082	8.768	713.6E6	507.1E6	27.662	38.222m#
Spiked Amount	100.000 Range	30 - 150	Recovery =	27.66%#	38.22%	
Target Compounds						
2) TC HEXACHLOR...	3.357	3.982	911.6E6	680.8E6	35.022	44.551 #
3) tc alpha-BHC	3.435	3.916	1539.3E6	1099.8E6	37.939	48.593 #
4) tcm gamma-BHC (L	3.728	4.183	1297.6E6	979.3E6	35.093	47.470 #
5) tcm Heptachlor	4.003	4.690	1254.6E6	952.9E6	34.763	45.321 #
6) tcm Aldrin	4.249	4.981	1221.3E6	877.8E6	34.044	44.729 #
7) tc beta-BHC	3.910	4.397	592.2E6	438.5E6	34.671	45.492 #
8) tc delta-BHC	4.131	4.624	1279.2E6	990.2E6	34.691	47.564 #
9) tc Heptachlor E	4.687	5.377	1026.0E6	807.4E6	30.941	43.499 #
10) tc alpha-Endosu	5.016	5.767	988.6E6	721.1E6	32.440	42.916 #
11) tc gamma-Chlord	4.881	5.675	1061.2E6	811.7E6	30.324	42.826 #
12) tc alpha-Chlord	4.962	5.723	1023.0E6	786.0E6	31.163	42.451 #
13) tc 4,4'-DDE	5.128	5.847	1013.9E6	755.9E6	31.476	42.340 #
14) tcm Dieldrin	5.268	6.019	1083.2E6	811.5E6	31.552	44.118 #
15) tcm Endrin	5.560	6.255	951.7E6	733.6E6	31.312	45.806 #
17) tc beta-Endosul	5.811	6.523	930.4E6	702.8E6	30.524	42.989 #
18) tc 4,4'-DDD	5.655	6.369	858.3E6	664.1E6	31.143	42.794 #
19) tcm 4,4'-DDT	5.923	6.691	872.3E6	699.8E6	30.231	42.435 #
20) tc Endrin Aldeh	6.031	6.636	812.6E6	563.9E6	30.729	42.262 #
21) tc Endosulfan S	6.232	6.935	860.6E6	632.9E6	30.116	42.024 #
22) tc Methoxychlor	6.613	7.155	454.0E6	368.4E6	29.959	41.610 #
24) tc Endrin Keton	6.868	7.403	938.7E6	750.7E6	27.901	41.622 #
25) tc Mirex	7.012	7.977	695.5E6	486.8E6	28.653	39.390 #
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au343.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 10:44 am  
 Operator : m.pedro  
 Sample : pest 100 ppb  
 Misc : initial cal  
 ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:37:14 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:37:07 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1,Tet...	2.927	3.581	1975.4E6	1359.9E6	50.695	53.817
Spiked Amount	100.000 Range	30 - 150	Recovery	=	50.70%	53.82%
26) S SURR2,Dec...	8.083	8.748	1232.1E6	899.2E6	44.290	48.550
Spiked Amount	100.000 Range	30 - 150	Recovery	=	44.29%	48.55%
Target Compounds						
2) TC HEXACHLOR...	3.358	3.983	1646.9E6	1242.6E6	49.262	52.433
3) tc alpha-BHC	3.435	3.916	2904.1E6	2081.0E6	52.861	56.374
4) tcm gamma-BHC (L	3.729	4.183	2421.4E6	1838.5E6	51.051	55.408
5) tcm Heptachlor	4.004	4.690	2300.8E6	1747.2E6	50.203	53.580
6) tcm Aldrin	4.250	4.981	2240.5E6	1630.4E6	50.321	54.250
7) tc beta-BHC	3.910	4.398	1053.9E6	793.5E6	48.387	52.247
8) tc delta-BHC	4.132	4.624	2403.9E6	1867.0E6	51.413	55.769
9) tc Heptachlor E	4.687	5.377	1845.7E6	1467.4E6	47.736	52.558
10) tc alpha-Endosu	5.017	5.767	1779.1E6	1311.0E6	48.513	52.313
11) tc gamma-Chlord	4.880	5.675	1944.3E6	1498.7E6	48.325	53.086
12) tc alpha-Chlord	4.962	5.723	1884.9E6	1439.5E6	48.968	52.374
13) tc 4,4'-DDE	5.127	5.847	1856.1E6	1396.5E6	48.816	53.041
14) tcm Dieldrin	5.268	6.019	1987.3E6	1486.7E6	49.137	53.225
15) tcm Endrin	5.560	6.255	1725.4E6	1334.4E6	48.457	53.099
17) tc beta-Endosul	5.811	6.523	1688.4E6	1278.5E6	48.124	52.372
18) tc 4,4'-DDD	5.655	6.369	1556.5E6	1214.2E6	46.816	53.083
19) tcm 4,4'-DDT	5.924	6.691	1602.8E6	1267.5E6	48.358	52.285
20) tc Endrin Aldeh	6.031	6.636	1445.9E6	1002.1E6	47.494	51.199
21) tc Endosulfan S	6.232	6.936	1548.7E6	1135.2E6	47.258	51.161
22) tc Methoxychlor	6.613	7.155	741.7E6	629.7E6	43.840	49.171
24) tc Endrin Keton	6.867	7.404	1678.9E6	1347.2E6	46.438	51.615
25) tc Mirex	7.012	7.977	1226.7E6	854.9E6	45.527	48.788
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

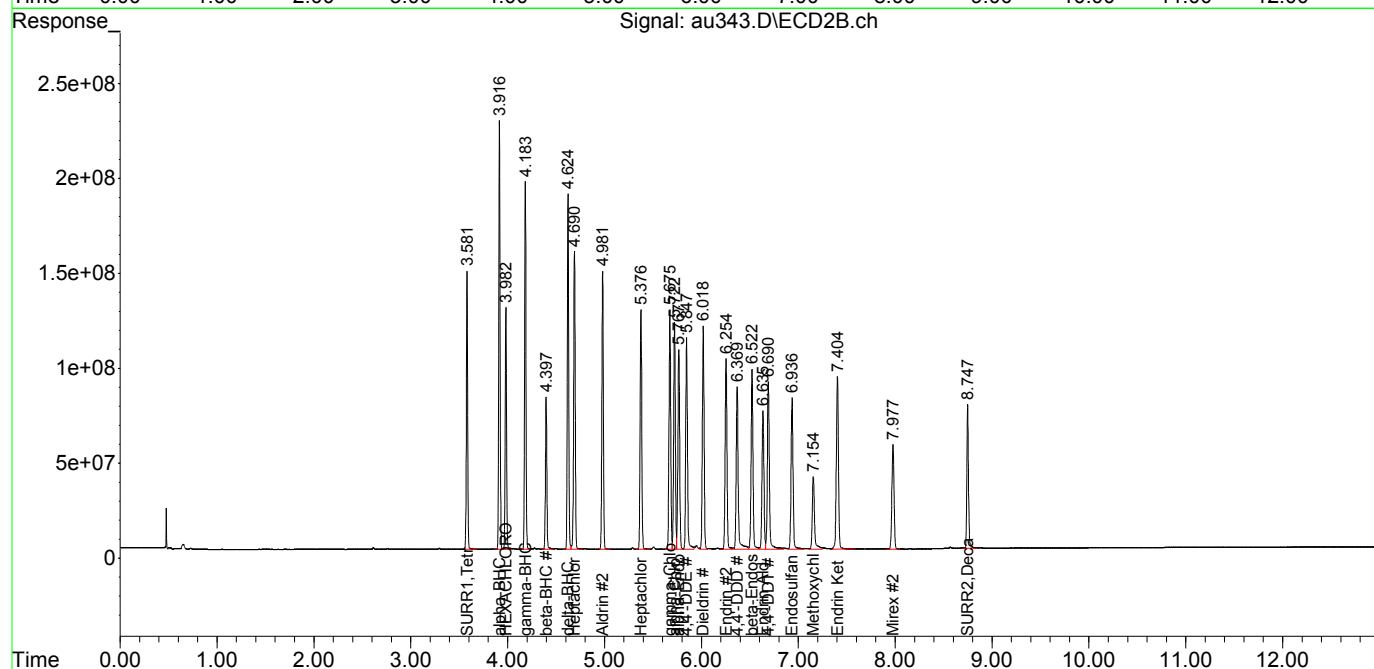
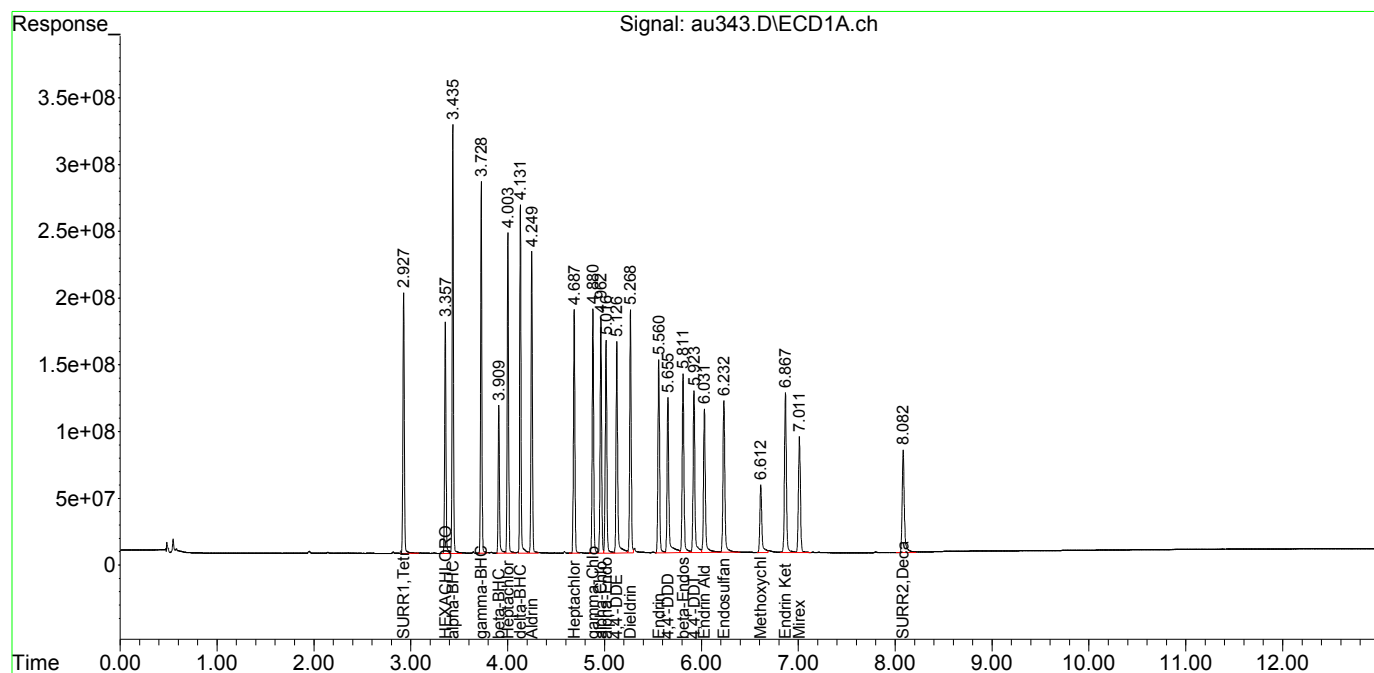
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au343.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 10:44 am  
Operator : m.pedro  
Sample : pest 100 ppb  
Misc : initial cal  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:37:14 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:37:07 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au344.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 11:02 am  
 Operator : m.pedro  
 Sample : pest 200 ppb  
 Misc : initial cal  
 ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:37:46 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:37:07 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

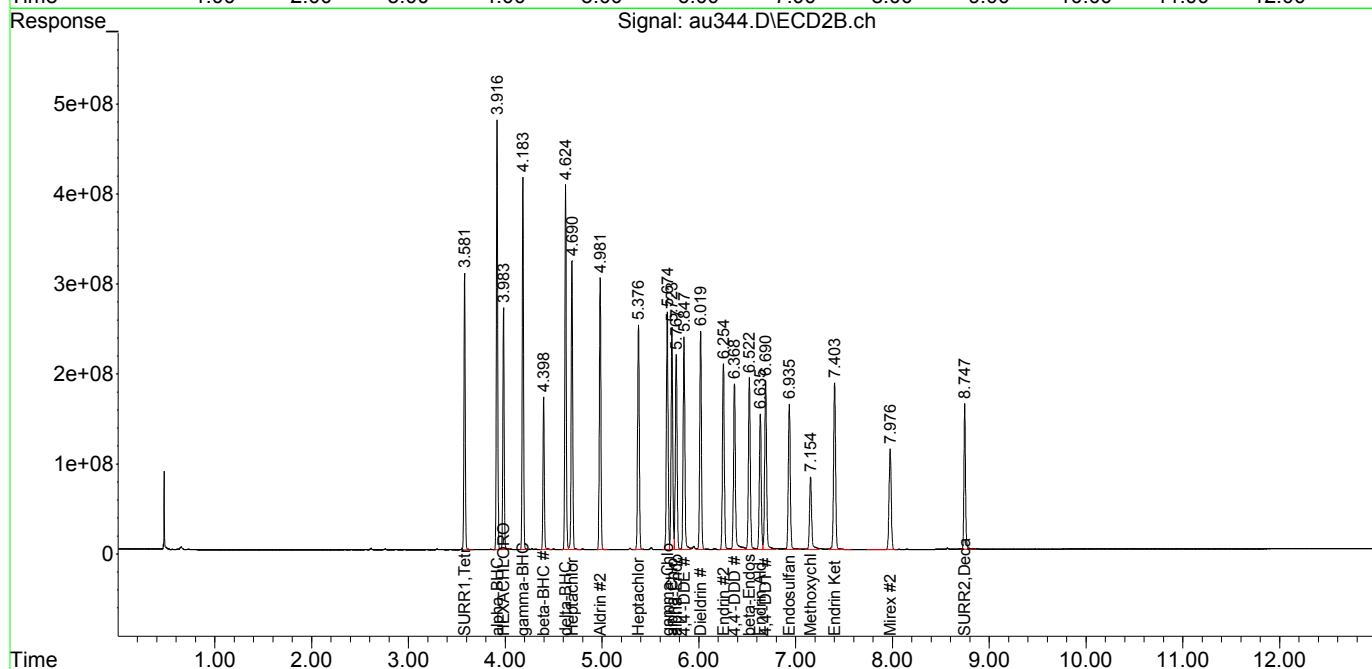
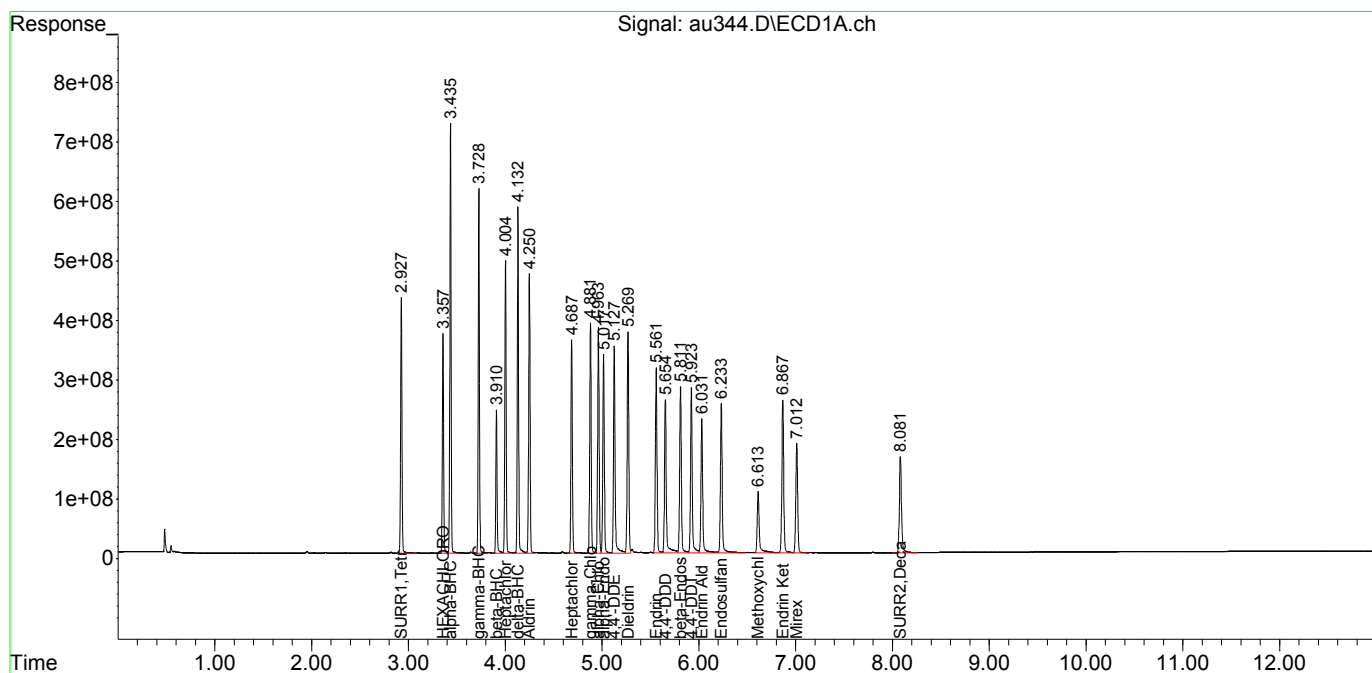
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1,Tet...	2.927	3.581	4108.7E6	2832.8E6	105.442	112.102
Spiked Amount	100.000 Range	30 - 150	Recovery	=	105.44%	112.10%
26) S SURR2,Dec...	8.082	8.747	2506.7E6	1829.0E6	90.109	98.752
Spiked Amount	100.000 Range	30 - 150	Recovery	=	90.11%	98.75%
Target Compounds						
2) TC HEXACHLOR...	3.358	3.983	3388.7E6	2555.2E6	101.365	107.819
3) tc alpha-BHC	3.435	3.917	6299.2E6	4451.2E6	114.659	120.584
4) tcm gamma-BHC (L	3.729	4.183	5198.0E6	3903.0E6	109.594	117.627
5) tcm Heptachlor	4.004	4.690	4743.0E6	3564.4E6	103.493	109.307
6) tcm Aldrin	4.250	4.981	4680.0E6	3371.4E6	105.108	112.177
7) tc beta-BHC	3.910	4.398	2159.2E6	1635.1E6	99.133	107.653
8) tc delta-BHC	4.132	4.624	5190.4E6	3983.5E6	111.006	118.989
9) tc Heptachlor E	4.687	5.377	3741.4E6	2966.3E6	96.767	106.244
10) tc alpha-Endosu	5.017	5.767	3599.6E6	2648.4E6	98.155	105.681
11) tc gamma-Chlord	4.881	5.674	4082.8E6	3130.9E6	101.473	110.902
12) tc alpha-Chlord	4.963	5.723	3940.9E6	2991.9E6	102.382	108.857
13) tc 4,4'-DDE	5.128	5.847	3913.7E6	2923.9E6	102.936	111.057
14) tcm Dieldrin	5.269	6.019	4133.2E6	3049.8E6	102.197	109.185
15) tcm Endrin	5.561	6.255	3584.7E6	2741.5E6	100.672	109.089
17) tc beta-Endosul	5.811	6.522	3484.5E6	2581.8E6	99.320	105.757
18) tc 4,4'-DDD	5.655	6.369	3311.2E6	2532.7E6	99.595	110.719
19) tcm 4,4'-DDT	5.924	6.690	3465.7E6	2618.0E6	104.562	107.991
20) tc Endrin Aldeh	6.032	6.636	2978.7E6	2017.7E6	97.842	103.082
21) tc Endosulfan S	6.233	6.935	3326.4E6	2298.1E6	101.501	103.565
22) tc Methoxychlor	6.613	7.155	1609.3E6	1241.9E6	95.125	96.974
24) tc Endrin Keton	6.868	7.403	3450.6E6	2711.8E6	95.443	103.901
25) tc Mirex	7.012	7.976	2514.2E6	1739.1E6	93.307	99.243
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au344.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 11:02 am  
Operator : m.pedro  
Sample : pest 200 ppb  
Misc : initial cal  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:37:46 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:37:07 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au345.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 11:20 am  
 Operator : m.pedro  
 Sample : pest icv  
 Misc : initial cal  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:39:07 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:38:41 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
2 TC HEXACHLOROBENZENE	10.000	9.632	3.7	89	0.00
3 tc alpha-BHC	10.000	9.099	9.0	89	0.00
4 tcm gamma-BHC (L	10.000	9.166	8.3	87	0.00
5 tcm Heptachlor	10.000	9.389	6.1	92	0.00
6 tcm Aldrin	10.000	9.053	9.5	85	0.00
7 tc beta-BHC	10.000	9.183	8.2	82	0.00
8 TC delta-BHC	10.000	8.855	11.4	86	0.00
9 tc Heptachlor E	10.000	9.187	8.1	86	0.00
10 tc alpha-Endosul	10.000	9.588	4.1	87	0.00
11 tc gamma-Chlord	10.000	9.103	9.0	86	0.00
12 tc alpha-Chlord	10.000	9.273	7.3	91	0.00
13 tc 4,4'-DDE	10.000	8.808	11.9	81	0.00
14 tcm Dieldrin	10.000	9.085	9.1	84	0.00
15 tcm Endrin	10.000	9.240	7.6	85	0.00
17 tc beta-Endosul	10.000	9.684	3.2	94	0.00
18 tc 4,4'-DDD	10.000	9.598	4.0	93	0.00
19 tcm 4,4'-DDT	10.000	9.325	6.8	85	0.00
20 tc Endrin Aldeh	10.000	10.437	-4.4	105	0.00
21 tc Endosulfan S	10.000	10.006	-0.1	97	0.00
22 tc Methoxychlor	10.000	10.074	-0.7	87	0.00
24 tc Endrin Keton	10.000	9.834	1.7	92	0.00

Signal #2

2 TC HEXACHLOROBENZENE	10.000	9.443	5.6	90	0.00
3 tc alpha-BHC	10.000	8.787	12.1	89	0.00
4 tcm gamma-BHC (L	10.000	8.822	11.8	88	0.00
5 tcm Heptachlor	10.000	9.311	6.9	90	0.00
6 tcm Aldrin	10.000	9.115	8.8	89	0.00
7 tc beta-BHC	10.000	8.820	11.8	84	0.00
8 tc delta-BHC	10.000	8.952	10.5	90	0.00
9 tc Heptachlor E	10.000	9.147	8.5	87	0.00
10 tc alpha-Endosul	10.000	9.497	5.0	90	0.00
11 tc gamma-Chlord	10.000	9.018	9.8	88	0.00
12 tc alpha-Chlord	10.000	9.146	8.5	88	0.00
13 tc 4,4'-DDE	10.000	9.145	8.6	89	0.00
14 tcm Dieldrin	10.000	9.153	8.5	89	0.00
15 tcm Endrin	10.000	9.238	7.6	89	0.00
17 tc beta-Endosul	10.000	9.795	2.1	94	0.00
18 tc 4,4'-DDD	10.000	9.299	7.0	90	0.00
19 tcm 4,4'-DDT	10.000	9.648	3.5	94	0.00
20 tc Endrin Aldeh	10.000	9.811	1.9	92	0.00
21 tc Endosulfan S	10.000	9.668	3.3	91	0.00
22 tc Methoxychlor	10.000	9.846	1.5	89	0.00

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au345.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 11:20 am  
Operator : m.pedro  
Sample : pest icv  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:39:07 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:38:41 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24 tc Endrin Keton	10.000	9.740	2.6	92	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.93#
16 tc KEPONE	1500.000	0.000	100.0#	0	-5.68#
23 tc FAMPHUR	300.000	0.000	100.0#	0	-6.12#
25 tc Mirex	10.000	0.000	100.0#	0	-7.01#
26 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.08#
27 L8C Toxaphene	250.000	0.000	100.0#	0	-5.39#
28 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-5.58#
29 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-6.19#
30 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-6.77#
31 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.03#
32 L9C Chlordane	100.000	0.000	100.0#	0	-3.87#
33 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.01#
34 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.97#
35 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.60#
36 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.84#
37 L10CDechlorane{1}	50.000	0.000	100.0#	0	-10.37#
38 L10CDechlorane{2}	50.000	0.000	100.0#	0	-10.74#

Signal #2

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-3.58#
16 tc KEPONE	1500.000	0.000	100.0#	0	-6.55#
23 tc FAMPHUR	300.000	0.000	100.0#	0	-6.45#
25 tc Mirex	10.000	0.000	100.0#	0	-7.98#
26 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.76#
27 L8C Toxaphene	250.000	0.000	100.0#	0	-6.36#
28 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-6.84#
29 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-7.10#
30 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-7.15#
31 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.83#
32 L9C Chlordane	100.000	0.000	100.0#	0	-4.50#
33 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.68#
34 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.98#
35 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.72#
36 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.75#
37 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.90#
38 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.38#

(#) = Out of Range

SPCC's out = 0 CCC's out = 30



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au345.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 11:20 am  
 Operator : m.pedro  
 Sample : pest icv  
 Misc : initial cal  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:39:07 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:38:41 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

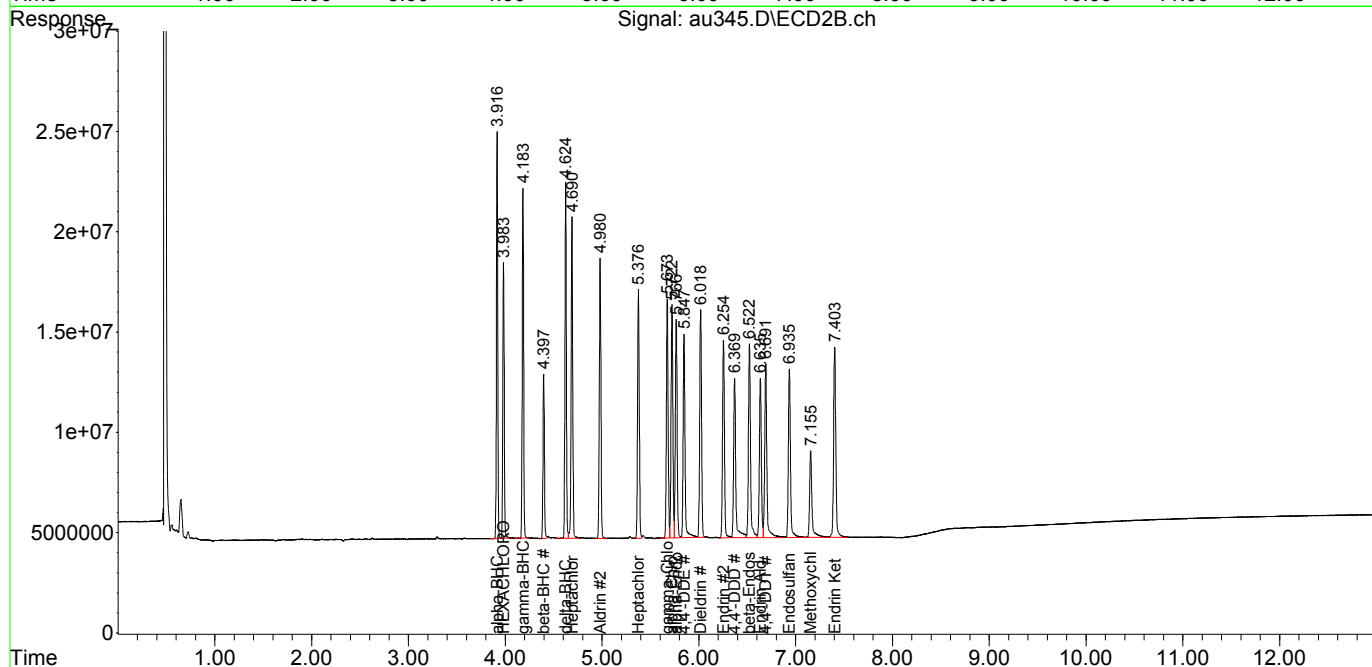
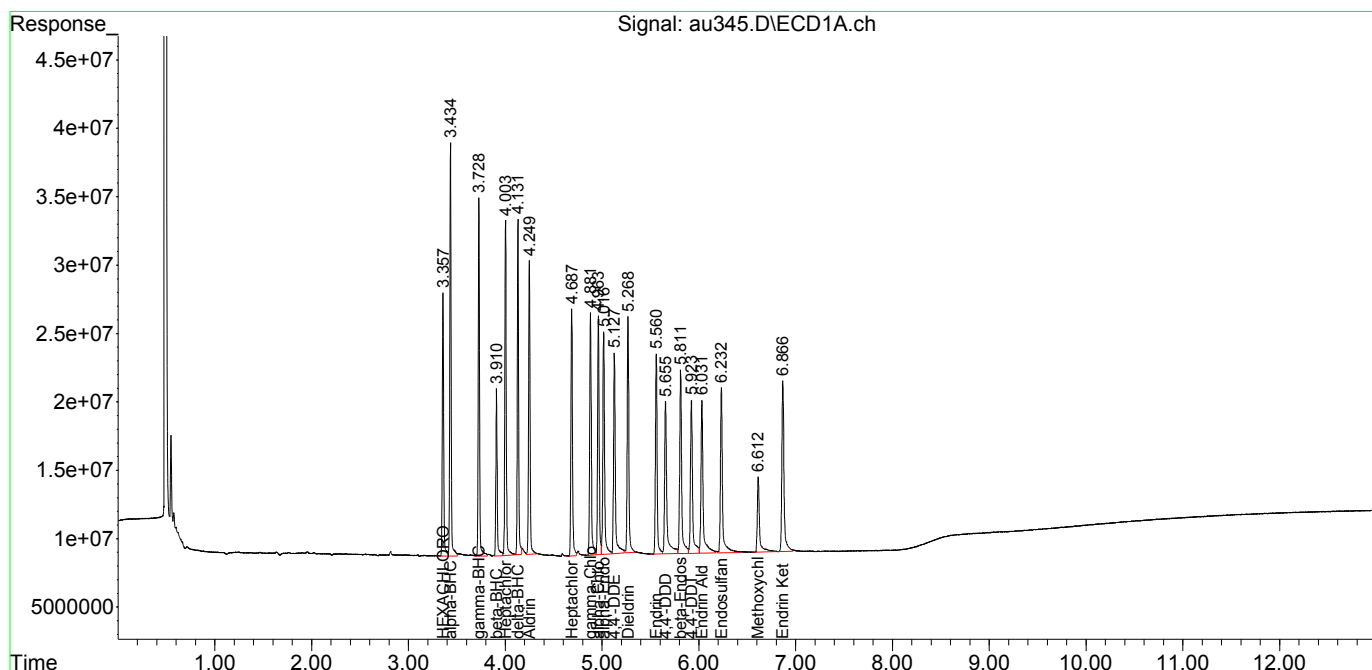
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
2) TC HEXACHLOR...	3.357	3.983	193.8E6	137.1E6	9.632	9.443
3) tc alpha-BHC	3.435	3.917	287.2E6	189.3E6	9.099	8.787
4) tcm gamma-BHC (L	3.728	4.183	250.1E6	172.3E6	9.166	8.822
5) tcm Heptachlor	4.004	4.690	246.4E6	178.5E6	9.389	9.311
6) tcm Aldrin	4.249	4.981	227.0E6	159.3E6	9.053	9.115
7) tc beta-BHC	3.910	4.398	119.1E6	81953405	9.183	8.820
8) tc delta-BHC	4.132	4.624	233.5E6	174.9E6	8.855	8.952
9) tc Heptachlor E	4.687	5.376	200.9E6	151.0E6	9.187	9.147
10) tc alpha-Endosu	5.017	5.767	200.5E6	140.3E6	9.588	9.497
11) tc gamma-Chlord	4.881	5.674	202.0E6	148.4E6	9.103	9.018
12) tc alpha-Chlord	4.963	5.722	197.5E6	147.5E6	9.273	9.146
13) tc 4,4'-DDE	5.127	5.847	184.1E6	137.9E6	8.808	9.145
14) tcm Dieldrin	5.269	6.019	205.7E6	148.2E6	9.085	9.153
15) tcm Endrin	5.561	6.255	182.3E6	135.6E6	9.240	9.238
17) tc beta-Endosul	5.812	6.523	187.7E6	140.2E6	9.684	9.795
18) tc 4,4'-DDD	5.656	6.369	178.7E6	121.3E6	9.598	9.299
19) tcm 4,4'-DDT	5.924	6.691	168.1E6	132.0E6	9.325	9.648
20) tc Endrin Aldeh	6.031	6.636	175.1E6	112.5E6	10.437	9.811
21) tc Endosulfan S	6.233	6.935	181.1E6	126.3E6	10.006	9.668
22) tc Methoxychlor	6.613	7.155	90087369	73062593	10.074	9.846
24) tc Endrin Keton	6.867	7.403	191.8E6	148.3E6	9.834	9.740
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au345.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 11:20 am  
 Operator : m.pedro  
 Sample : pest icv  
 Misc : initial cal  
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:39:07 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:38:41 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUADATA\7890m\DATA\010818\  
 Data File : au346.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 11:45 am  
 Operator : m.pedro  
 Sample : k/f low  
 Misc : initial cal  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:29:44 2018  
 Quant Method : I:\ACQUADATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

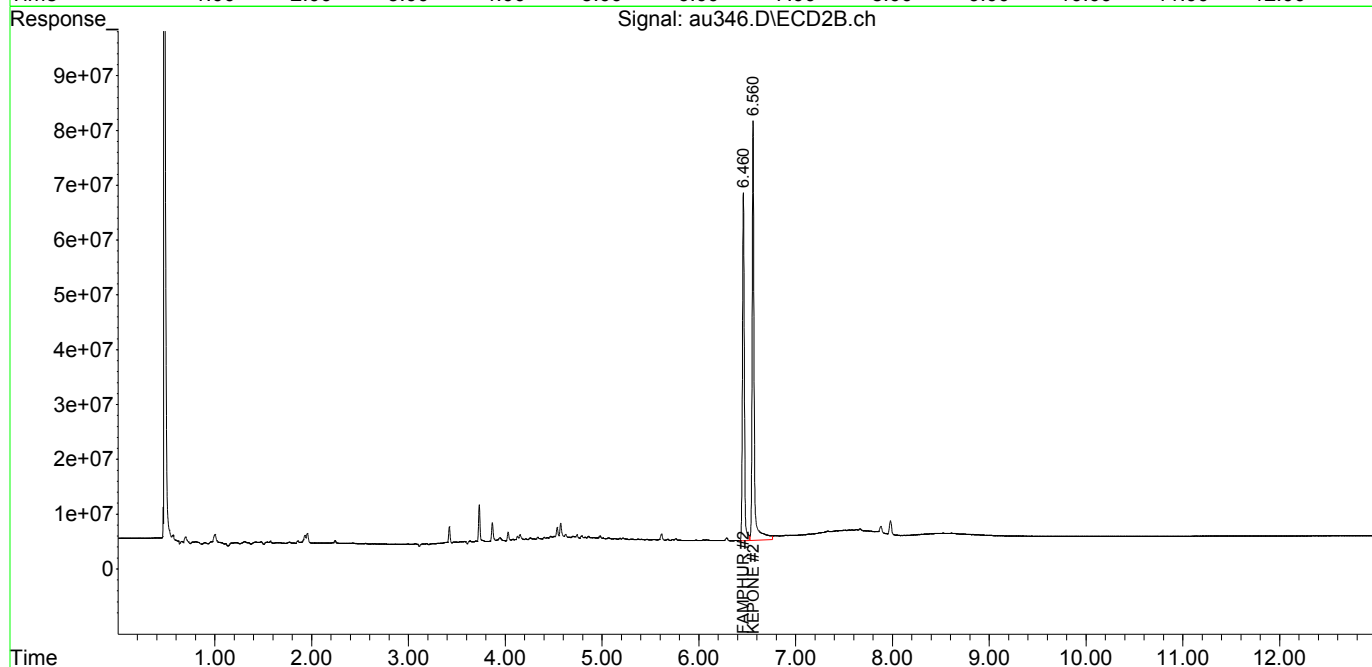
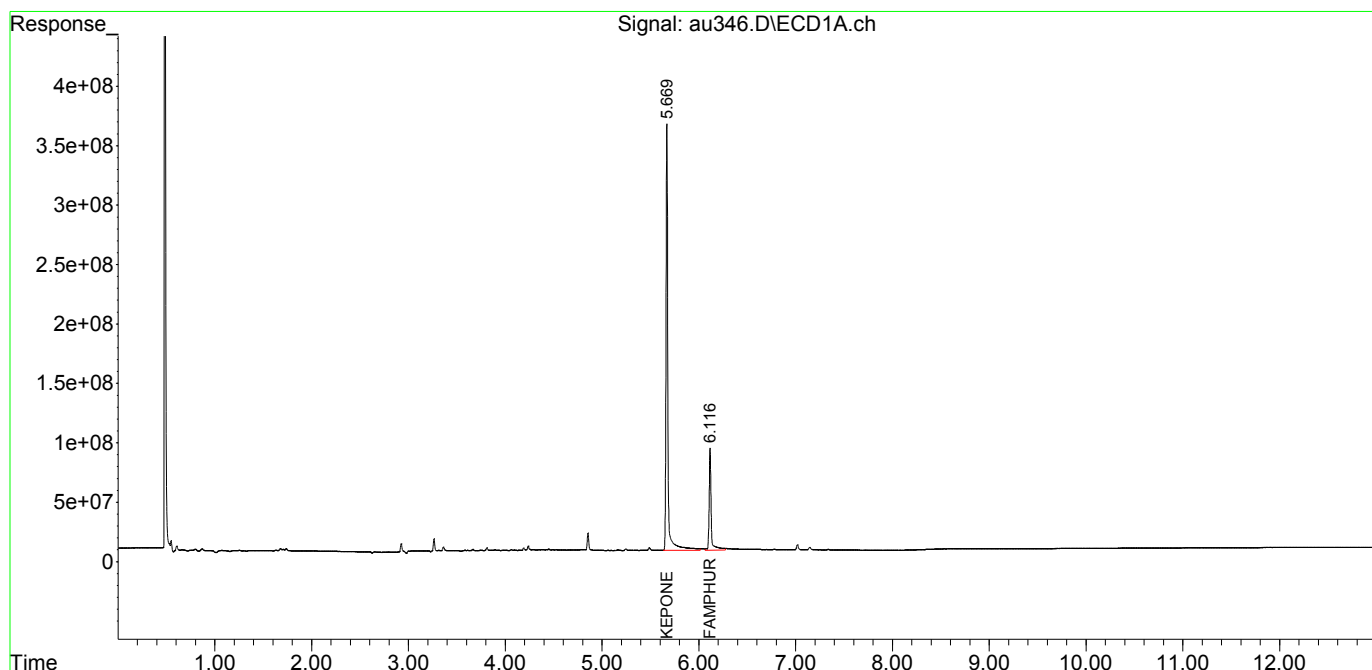
16) tc	KEPONE	5.670	6.560	4940.5E6	1078.3E6	304.364	438.863 #
23) tc	FAMPHUR	6.116	6.460	1260.0E6	858.5E6	60.693	80.008 #
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000
	Sum Dechlorane			0	0	N.D.	N.D.
	Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au346.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 11:45 am  
Operator : m.pedro  
Sample : k/f low  
Misc : initial cal  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:44 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au347.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 12:03 pm  
 Operator : m.pedro  
 Sample : k/f medlow  
 Misc : initial cal  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:29:48 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

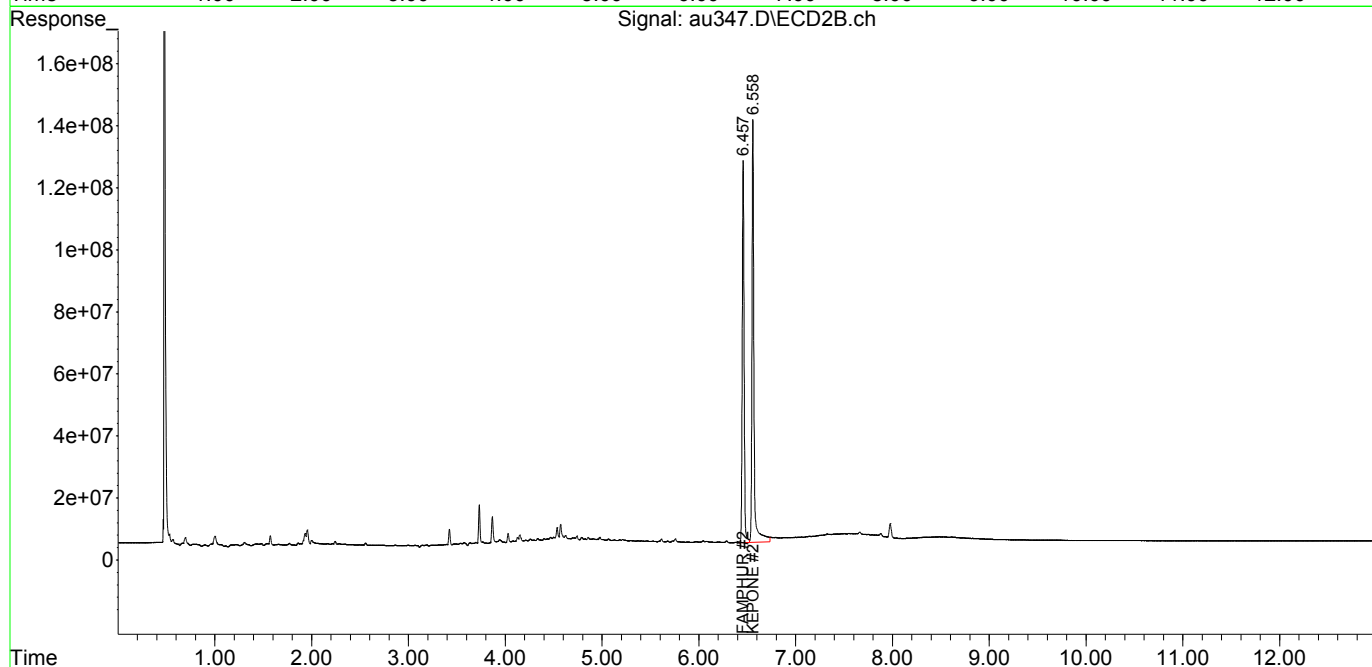
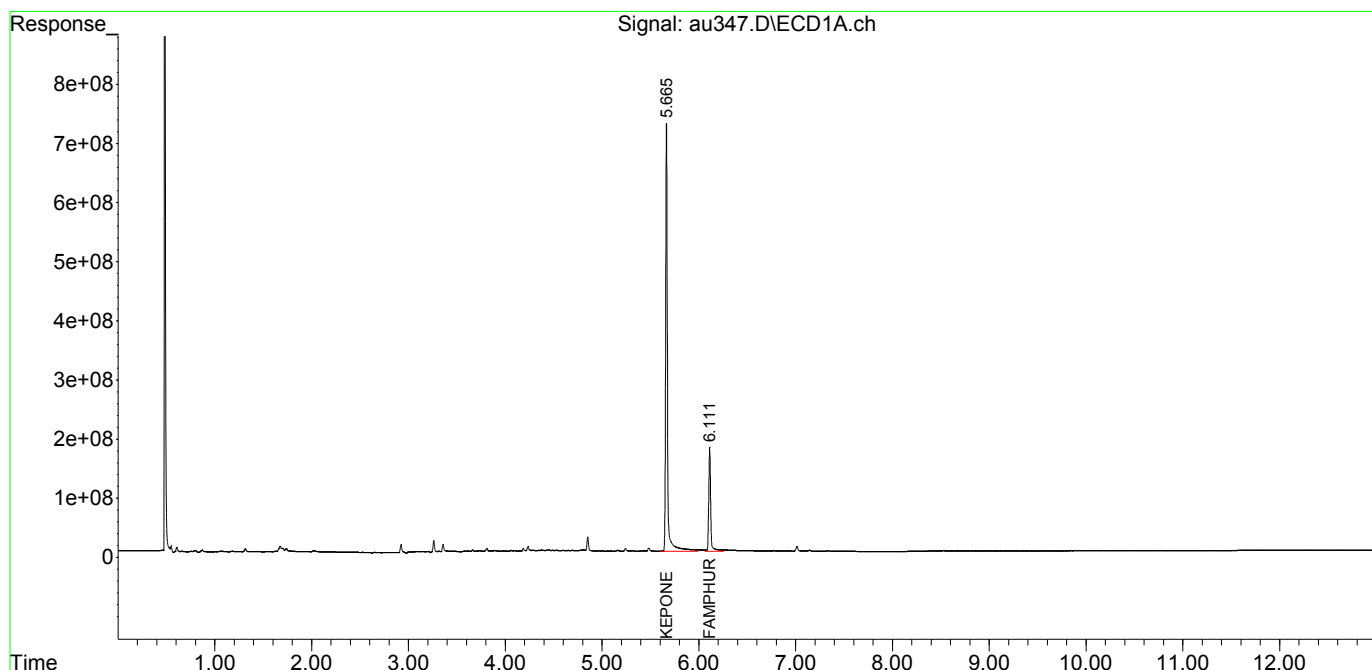
16) tc	KEPONE	5.666	6.558	9562.9E6	1934.3E6	589.129	787.268 #
23) tc	FAMPHUR	6.112	6.458	2441.4E6	1648.5E6	117.600	153.628 #
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000
	Sum Dechlorane			0	0	N.D.	N.D.
	Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au347.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 12:03 pm  
Operator : m.pedro  
Sample : k/f medlow  
Misc : initial cal  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:48 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au348.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 12:21 pm  
Operator : m.pedro  
Sample : k/f med  
Misc : initial cal  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:52 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l  
-----

System Monitoring Compounds

Target Compounds

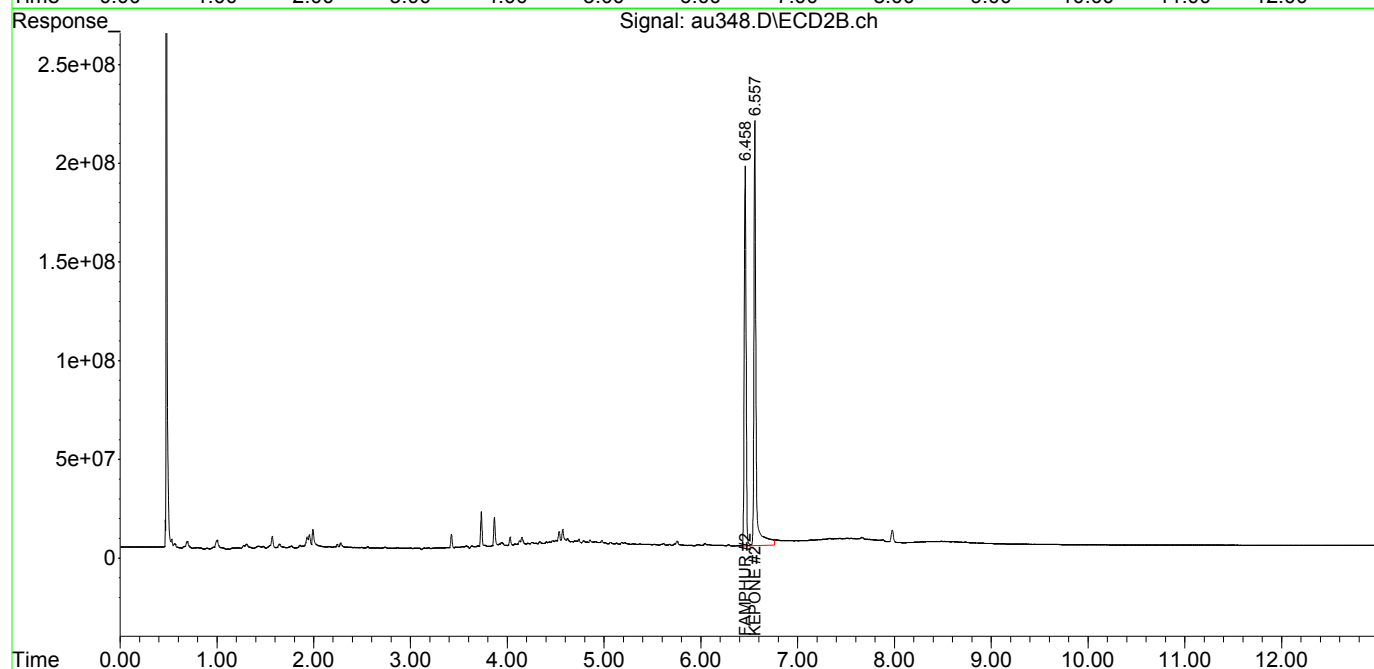
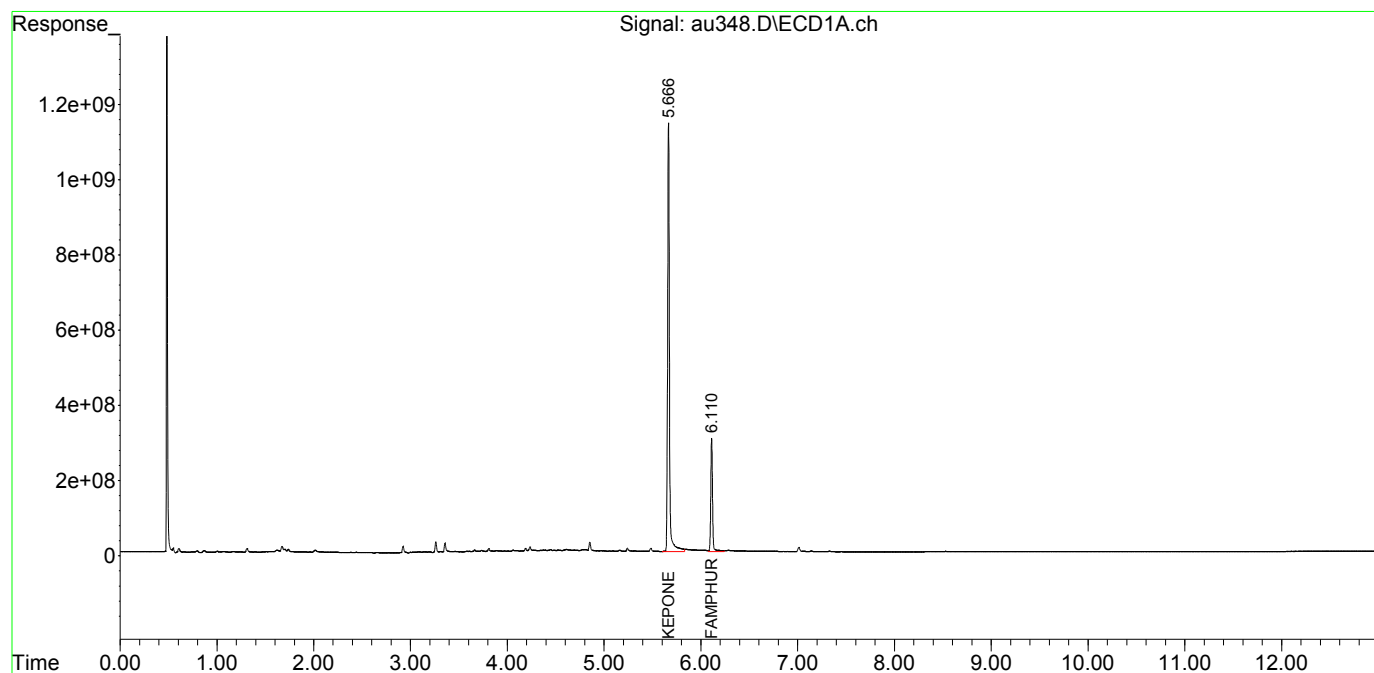
16) tc	KEPONE	5.666	6.558	14689.1E6	3203.7E6	904.928	1303.942 #
23) tc	FAMPHUR	6.111	6.458	3878.7E6	2551.0E6	186.836	237.735 #
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000
	Sum Dechlorane			0	0	N.D.	N.D.
	Average Dechlorane					0.000	0.000

-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au348.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 12:21 pm  
Operator : m.pedro  
Sample : k/f med  
Misc : initial cal  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:52 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au349.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 12:39 pm  
Operator : m.pedro  
Sample : k/f medhigh  
Misc : initial cal  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:56 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l  
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System Monitoring Compounds

Target Compounds

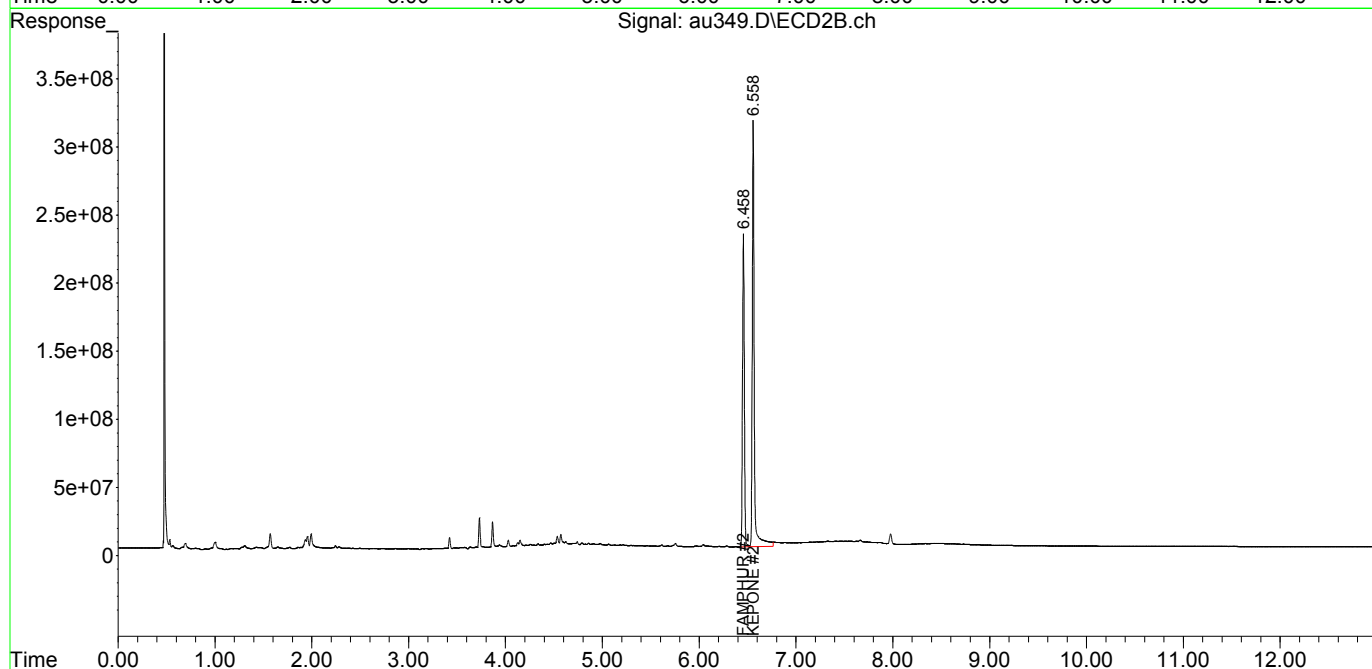
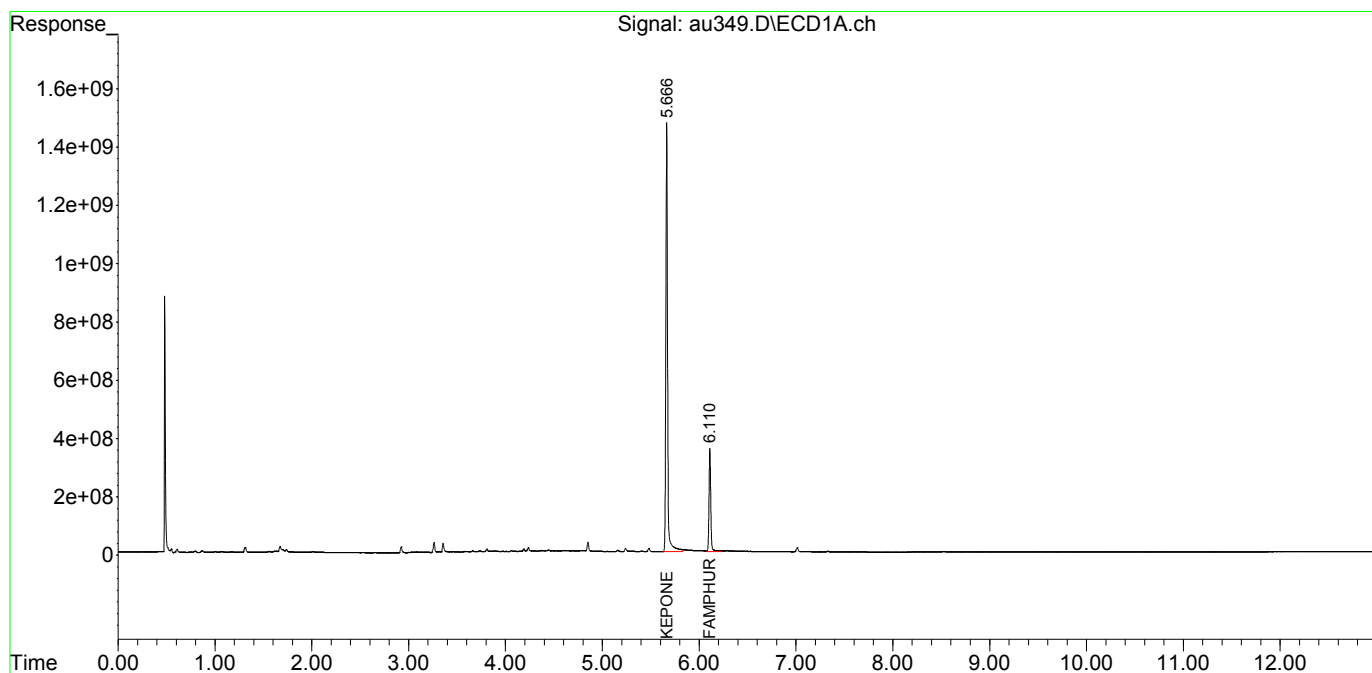
16) tc	KEPONE	5.666	6.559	18359.5E6	4391.0E6	1131.046	1787.185 #
23) tc	FAMPHUR	6.111	6.458	4554.1E6	2974.3E6	219.371	277.187 #
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000
	Sum Dechlorane			0	0	N.D.	N.D.
	Average Dechlorane					0.000	0.000

-----  
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au349.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 12:39 pm  
Operator : m.pedro  
Sample : k/f medhigh  
Misc : initial cal  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:29:56 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au350.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 12:57 pm  
 Operator : m.pedro  
 Sample : k/f high  
 Misc : initial cal  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:30:00 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

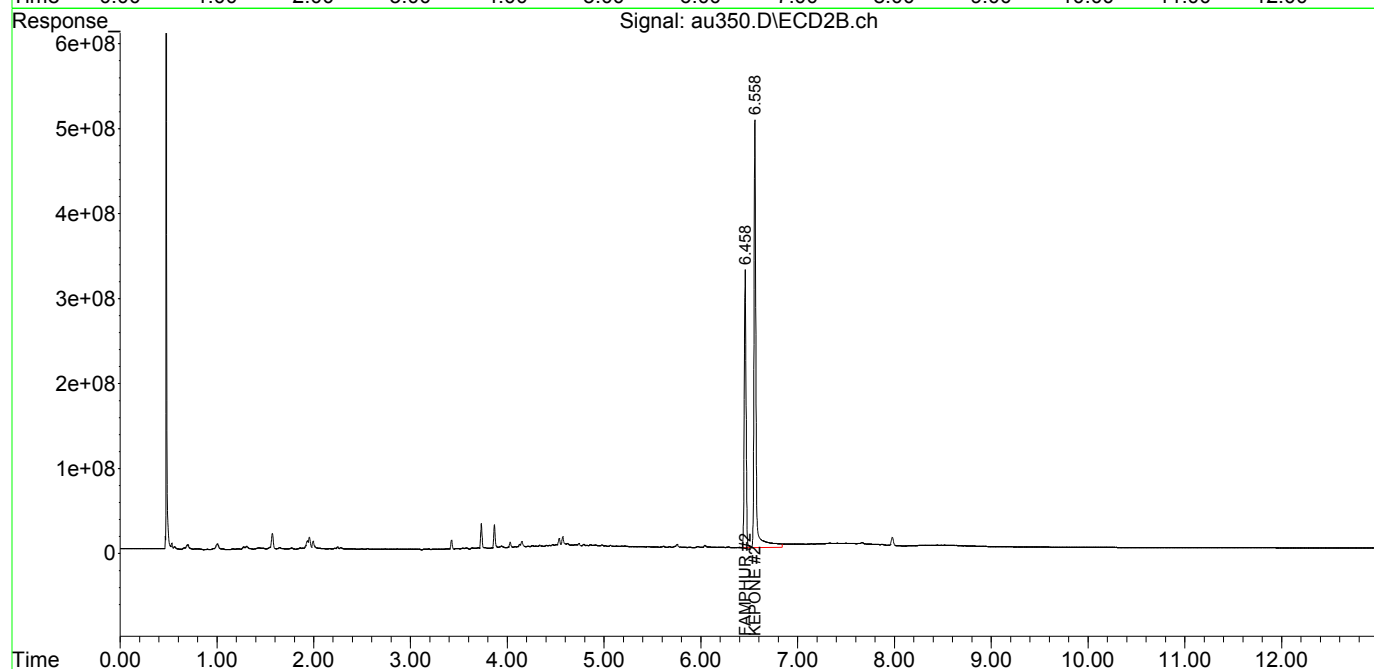
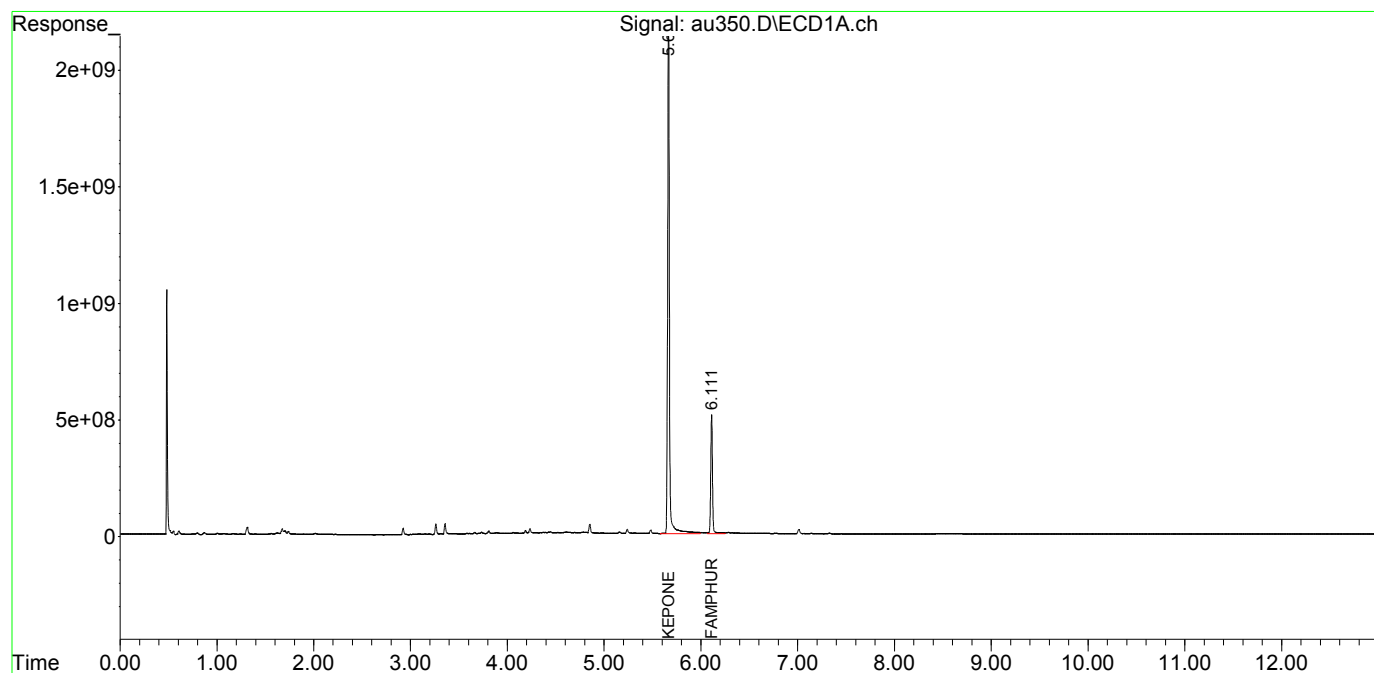
16) tc	KEPONE	5.666	6.558	27779.1E6	7256.4E6	1711.344	2953.413 #
23) tc	FAMPHUR	6.111	6.458	6542.4E6	4185.8E6	315.149	390.092
	Sum Toxaphene			0	0	N.D.	N.D.
	Average Toxaphene					0.000	0.000
	Sum Chlordane			0	0	N.D.	N.D.
	Average Chlordane					0.000	0.000
	Sum Dechlorane			0	0	N.D.	N.D.
	Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au350.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 12:57 pm  
Operator : m.pedro  
Sample : k/f high  
Misc : initial cal  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:30:00 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au351.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 1:15 pm  
 Operator : m.pedro  
 Sample : k/f icv  
 Misc : initial cal  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:46:52 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:46:24 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
16 tc KEPONE	1500.000	1766.400	-17.8#	119	0.00
23 tc FAMPHUR	300.000	304.539	-1.5	98	0.00

Signal #2

16 tc KEPONE	1500.000	1773.078	-18.2#	125	0.00
23 tc FAMPHUR	300.000	281.537	6.2	91	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.93#
2 TC HEXACHLOROBENZENE	10.000	0.000	100.0#	0	-3.36#
3 tc alpha-BHC	10.000	0.000	100.0#	0	-3.44#
4 tcm gamma-BHC (L	10.000	0.000	100.0#	0	-3.73#
5 tcm Heptachlor	10.000	0.000	100.0#	0	-4.00#
6 tcm Aldrin	10.000	0.000	100.0#	0	-4.25#
7 tc beta-BHC	10.000	0.000	100.0#	0	-3.91#
8 TC delta-BHC	10.000	0.000	100.0#	0	-4.13#
9 tc Heptachlor E	10.000	0.000	100.0#	0	-4.69#
10 tc alpha-Endosu	10.000	0.000	100.0#	0	-5.02#
11 tc gamma-Chlord	10.000	0.000	100.0#	0	-4.88#
12 tc alpha-Chlord	10.000	0.000	100.0#	0	-4.96#
13 tc 4,4'-DDE	10.000	0.000	100.0#	0	-5.13#
14 tcm Dieldrin	10.000	0.000	100.0#	0	-5.27#
15 tcm Endrin	10.000	0.000	100.0#	0	-5.56#
17 tc beta-Endosul	10.000	0.000	100.0#	0	-5.81#
18 tc 4,4'-DDD	10.000	0.000	100.0#	0	-5.66#
19 tcm 4,4'-DDT	10.000	0.000	100.0#	0	-5.92#
20 tc Endrin Aldeh	10.000	0.000	100.0#	0	-6.03#
21 tc Endosulfan S	10.000	0.000	100.0#	0	-6.23#
22 tc Methoxychlor	10.000	0.000	100.0#	0	-6.61#
24 tc Endrin Keton	10.000	0.000	100.0#	0	-6.87#
25 tc Mirex	10.000	0.000	100.0#	0	-7.01#
26 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.08#
27 L8C Toxaphene	250.000	0.000	100.0#	0	-5.39#
28 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-5.58#
29 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-6.19#
30 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-6.77#
31 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.03#
32 L9C Chlordane	100.000	0.000	100.0#	0	-3.87#
33 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.01#
34 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.97#
35 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.60#
36 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.84#

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au351.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 1:15 pm  
 Operator : m.pedro  
 Sample : k/f icv  
 Misc : initial cal  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:46:52 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:46:24 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
37 L10CDechlorane{1}	50.000	0.000	100.0#	0	-10.37#
38 L10CDechlorane{2}	50.000	0.000	100.0#	0	-10.74#

Signal #2

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-3.58#
2 TC HEXACHLOROBENZENE	10.000	0.000	100.0#	0	-3.98#
3 tc alpha-BHC	10.000	0.000	100.0#	0	-3.92#
4 tcm gamma-BHC (L	10.000	0.000	100.0#	0	-4.18#
5 tcm Heptachlor	10.000	0.000	100.0#	0	-4.69#
6 tcm Aldrin	10.000	0.000	100.0#	0	-4.98#
7 tc beta-BHC	10.000	0.000	100.0#	0	-4.40#
8 tc delta-BHC	10.000	0.000	100.0#	0	-4.62#
9 tc Heptachlor E	10.000	0.000	100.0#	0	-5.38#
10 tc alpha-Endosu	10.000	0.000	100.0#	0	-5.77#
11 tc gamma-Chlord	10.000	0.000	100.0#	0	-5.68#
12 tc alpha-Chlord	10.000	0.000	100.0#	0	-5.72#
13 tc 4,4'-DDE	10.000	0.000	100.0#	0	-5.85#
14 tcm Dieldrin	10.000	0.000	100.0#	0	-6.02#
15 tcm Endrin	10.000	0.000	100.0#	0	-6.26#
17 tc beta-Endosul	10.000	0.000	100.0#	0	-6.52#
18 tc 4,4'-DDD	10.000	0.000	100.0#	0	-6.37#
19 tcm 4,4'-DDT	10.000	0.000	100.0#	0	-6.69#
20 tc Endrin Aldeh	10.000	0.000	100.0#	0	-6.64#
21 tc Endosulfan S	10.000	0.000	100.0#	0	-6.94#
22 tc Methoxychlor	10.000	0.000	100.0#	0	-7.16#
24 tc Endrin Keton	10.000	0.000	100.0#	0	-7.40#
25 tc Mirex	10.000	0.000	100.0#	0	-7.98#
26 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.76#
27 L8C Toxaphene	250.000	0.000	100.0#	0	-6.36#
28 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-6.84#
29 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-7.10#
30 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-7.15#
31 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.83#
32 L9C Chlordane	100.000	0.000	100.0#	0	-4.50#
33 L9C Chlordane{2}	100.000	0.000	100.0#	0	-4.68#
34 L9C Chlordane{3}	100.000	0.000	100.0#	0	-4.98#
35 L9C Chlordane{4}	100.000	0.000	100.0#	0	-5.72#
36 L9C Chlordane{5}	100.000	0.000	100.0#	0	-5.75#
37 L10CDechlorane{1}	50.000	0.000	100.0#	0	-11.90#
38 L10CDechlorane{2}	50.000	0.000	100.0#	0	-12.38#

(#) = Out of Range

SPCC's out = 0 CCC's out = 70



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au351.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 1:15 pm  
 Operator : m.pedro  
 Sample : k/f icv  
 Misc : initial cal  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:46:52 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:46:24 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

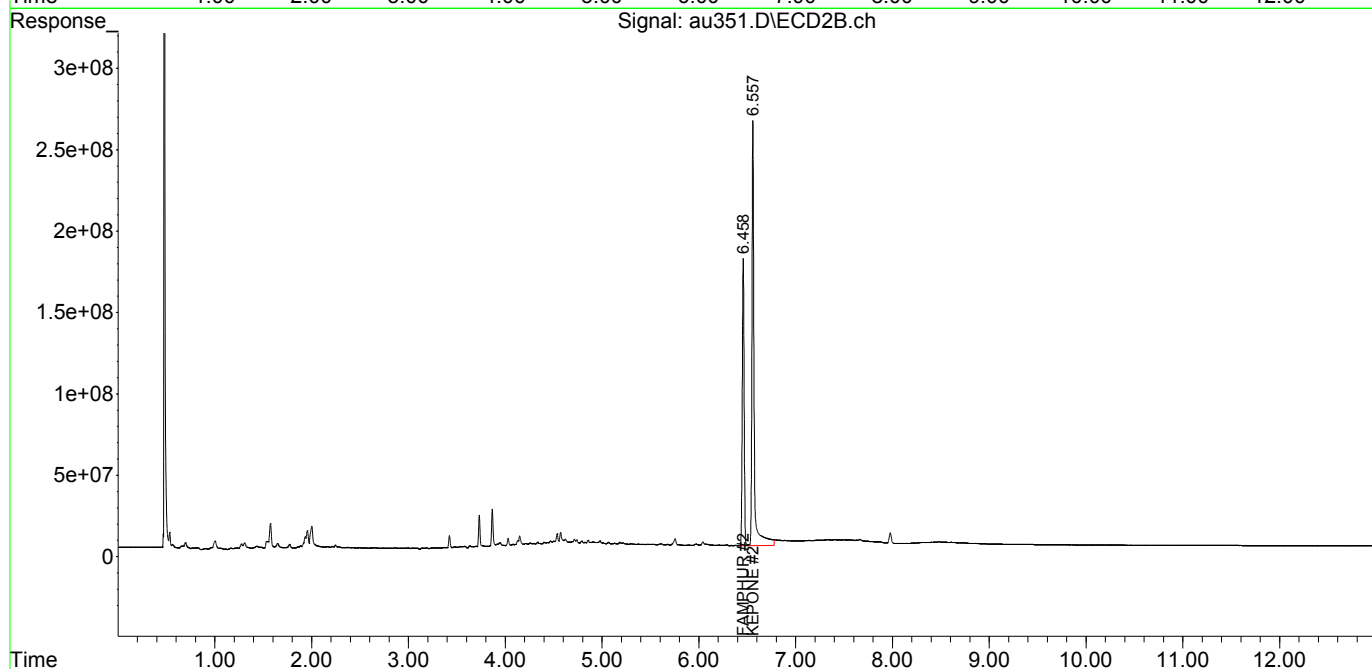
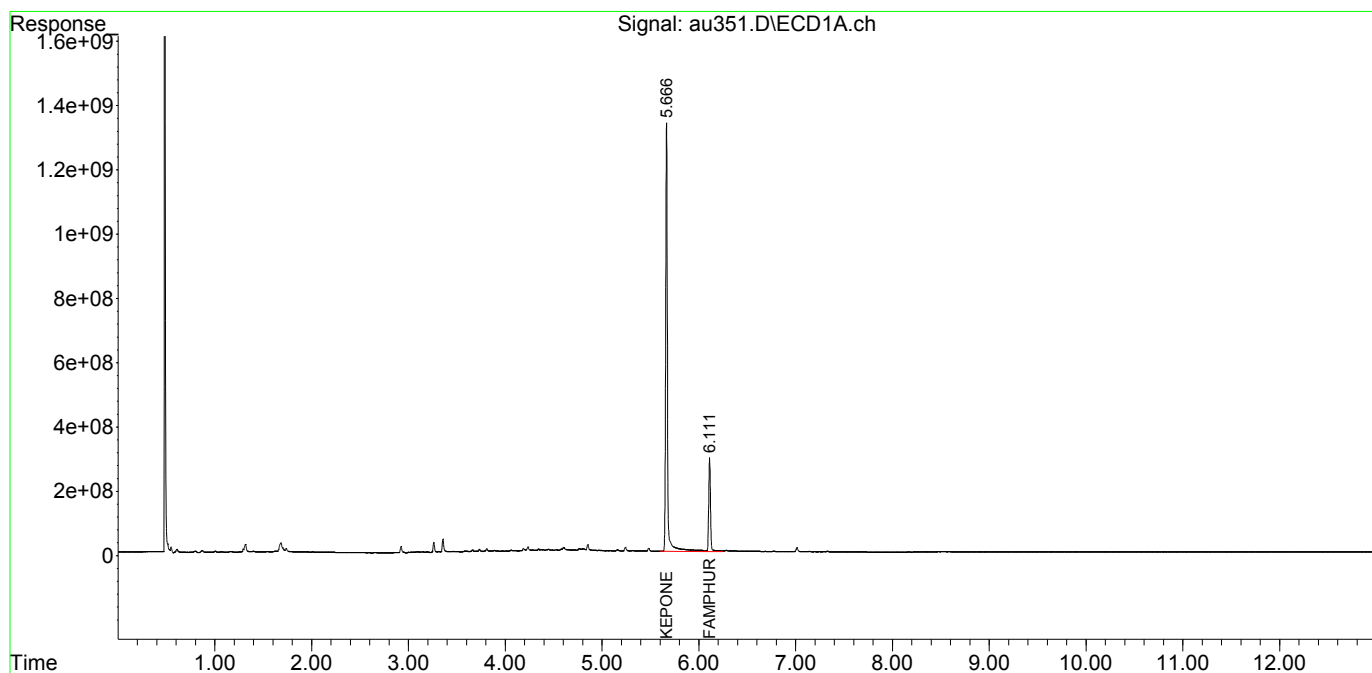
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
16) tc KEPONE	5.666	6.558	17497.3E6	4015.9E6	1766.400	1773.078
23) tc FAMPHUR	6.111	6.459	3788.8E6	2316.4E6	304.539	281.537
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au351.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 1:15 pm  
Operator : m.pedro  
Sample : k/f icv  
Misc : initial cal  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:46:52 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:46:24 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au352.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 1:33 pm  
Operator : m.pedro  
Sample : mirex icv  
Misc : initial cal  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:47:45 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:46:24 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25 tc Mirex	50.000	44.458	11.1	96	0.00

Signal #2

25 tc Mirex	50.000	43.966	12.1	96	0.00
-------------	--------	--------	------	----	------

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	50.000	0.000	100.0#	0	-2.93#
2 TC HEXACHLOROBENZENE	50.000	0.000	100.0#	0	-3.36#
3 tc alpha-BHC	50.000	0.000	100.0#	0	-3.44#
4 tcm gamma-BHC (L	50.000	0.000	100.0#	0	-3.73#
5 tcm Heptachlor	50.000	0.000	100.0#	0	-4.00#
6 tcm Aldrin	50.000	0.000	100.0#	0	-4.25#
7 tc beta-BHC	50.000	0.000	100.0#	0	-3.91#
8 TC delta-BHC	50.000	0.000	100.0#	0	-4.13#
9 tc Heptachlor E	50.000	0.000	100.0#	0	-4.69#
10 tc alpha-Endosu	50.000	0.000	100.0#	0	-5.02#
11 tc gamma-Chlord	50.000	0.000	100.0#	0	-4.88#
12 tc alpha-Chlord	50.000	0.000	100.0#	0	-4.96#
13 tc 4,4'-DDE	50.000	0.000	100.0#	0	-5.13#
14 tcm Dieldrin	50.000	0.000	100.0#	0	-5.27#
15 tcm Endrin	50.000	0.000	100.0#	0	-5.56#
16 tc KEPONE	2000.000	0.000	100.0#	0	-5.67#
17 tc beta-Endosul	50.000	0.000	100.0#	0	-5.81#
18 tc 4,4'-DDD	50.000	0.000	100.0#	0	-5.66#
19 tcm 4,4'-DDT	50.000	0.000	100.0#	0	-5.92#
20 tc Endrin Aldeh	50.000	0.000	100.0#	0	-6.03#
21 tc Endosulfan S	50.000	0.000	100.0#	0	-6.23#
22 tc Methoxychlor	50.000	0.000	100.0#	0	-6.61#
23 tc FAMPHUR	400.000	0.000	100.0#	0	-6.11#
24 tc Endrin Keton	50.000	0.000	100.0#	0	-6.87#
26 S SURR2,Decachlorobiphenyl	50.000	0.000	100.0#	0	-8.08#
27 L8C Toxaphene	500.000	0.000	100.0#	0	-5.39#
28 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-5.58#
29 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-6.19#
30 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-6.77#
31 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.03#
32 L9C Chlordane	250.000	0.000	100.0#	0	-3.87#
33 L9C Chlordane{2}	250.000	0.000	100.0#	0	-4.01#
34 L9C Chlordane{3}	250.000	0.000	100.0#	0	-4.97#
35 L9C Chlordane{4}	250.000	0.000	100.0#	0	-5.60#
36 L9C Chlordane{5}	250.000	0.000	100.0#	0	-5.84#
37 L10CDechlorane{1}	100.000	0.000	100.0#	0	-10.37#



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au352.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 1:33 pm  
Operator : m.pedro  
Sample : mirex icv  
Misc : initial cal  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:47:45 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:46:24 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
38 L10CDechlorane{2}	100.000	0.000	100.0#	0	-10.74#
Signal #2					
1 S SURR1,Tetrac	50.000	0.000	100.0#	0	-3.58#
2 TC HEXACHLOROBENZENE	50.000	0.000	100.0#	0	-3.98#
3 tc alpha-BHC	50.000	0.000	100.0#	0	-3.92#
4 tcm gamma-BHC (L	50.000	0.000	100.0#	0	-4.18#
5 tcm Heptachlor	50.000	0.000	100.0#	0	-4.69#
6 tcm Aldrin	50.000	0.000	100.0#	0	-4.98#
7 tc beta-BHC	50.000	0.000	100.0#	0	-4.40#
8 tc delta-BHC	50.000	0.000	100.0#	0	-4.62#
9 tc Heptachlor E	50.000	0.000	100.0#	0	-5.38#
10 tc alpha-Endosu	50.000	0.000	100.0#	0	-5.77#
11 tc gamma-Chlord	50.000	0.000	100.0#	0	-5.68#
12 tc alpha-Chlord	50.000	0.000	100.0#	0	-5.72#
13 tc 4,4'-DDE	50.000	0.000	100.0#	0	-5.85#
14 tcm Dieldrin	50.000	0.000	100.0#	0	-6.02#
15 tcm Endrin	50.000	0.000	100.0#	0	-6.26#
16 tc KEPONE	2000.000	0.000	100.0#	0	-6.56#
17 tc beta-Endosul	50.000	0.000	100.0#	0	-6.52#
18 tc 4,4'-DDD	50.000	0.000	100.0#	0	-6.37#
19 tcm 4,4'-DDT	50.000	0.000	100.0#	0	-6.69#
20 tc Endrin Aldeh	50.000	0.000	100.0#	0	-6.64#
21 tc Endosulfan S	50.000	0.000	100.0#	0	-6.94#
22 tc Methoxychlor	50.000	0.000	100.0#	0	-7.16#
23 tc FAMPHUR	400.000	0.000	100.0#	0	-6.46#
24 tc Endrin Keton	50.000	0.000	100.0#	0	-7.40#
26 S SURR2,Decachlorobiphenyl	50.000	0.000	100.0#	0	-8.76#
27 L8C Toxaphene	500.000	0.000	100.0#	0	-6.36#
28 L8C Toxaphene{2}	500.000	0.000	100.0#	0	-6.84#
29 L8C Toxaphene{3}	500.000	0.000	100.0#	0	-7.10#
30 L8C Toxaphene{4}	500.000	0.000	100.0#	0	-7.15#
31 L8C Toxaphene{5}	500.000	0.000	100.0#	0	-7.83#
32 L9C Chlordane	250.000	0.000	100.0#	0	-4.50#
33 L9C Chlordane{2}	250.000	0.000	100.0#	0	-4.68#
34 L9C Chlordane{3}	250.000	0.000	100.0#	0	-4.98#
35 L9C Chlordane{4}	250.000	0.000	100.0#	0	-5.72#
36 L9C Chlordane{5}	250.000	0.000	100.0#	0	-5.75#
37 L10CDechlorane{1}	100.000	0.000	100.0#	0	-11.90#
38 L10CDechlorane{2}	100.000	0.000	100.0#	0	-12.38#

(#) = Out of Range

SPCC's out = 0 CCC's out = 70



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au352.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 1:33 pm  
 Operator : m.pedro  
 Sample : mirex icv  
 Misc : initial cal  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:47:45 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Mon Jan 08 14:46:24 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

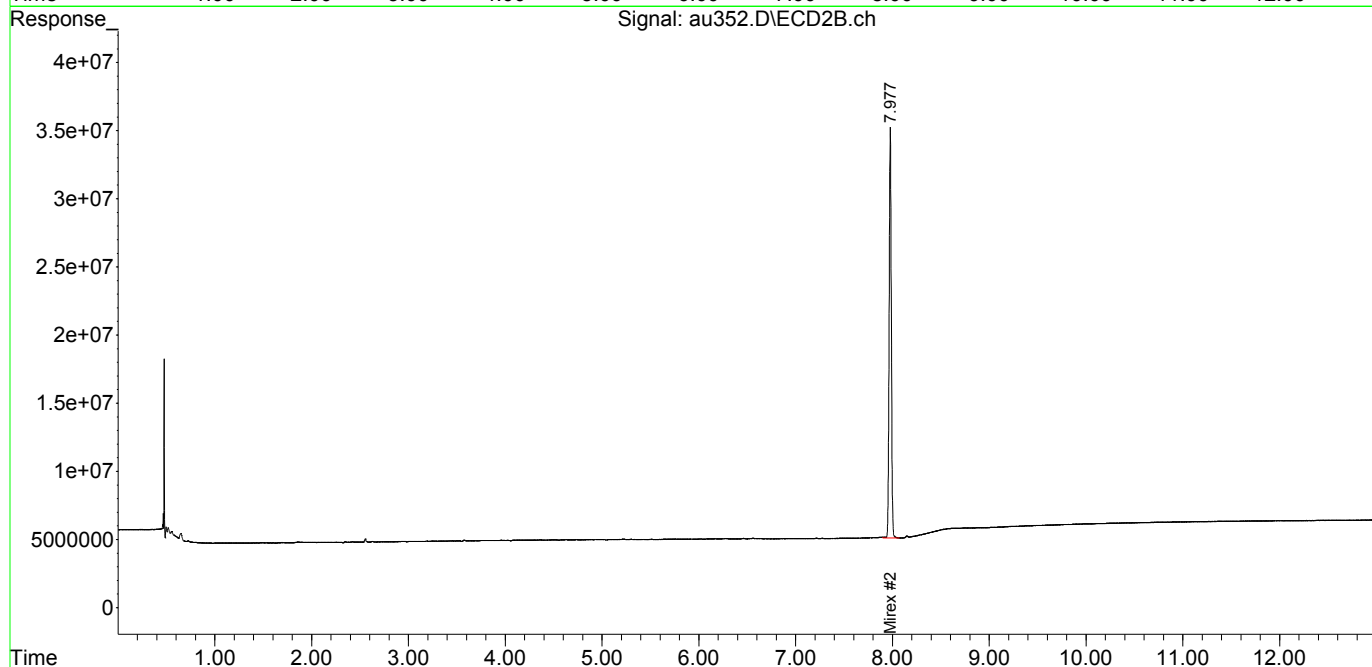
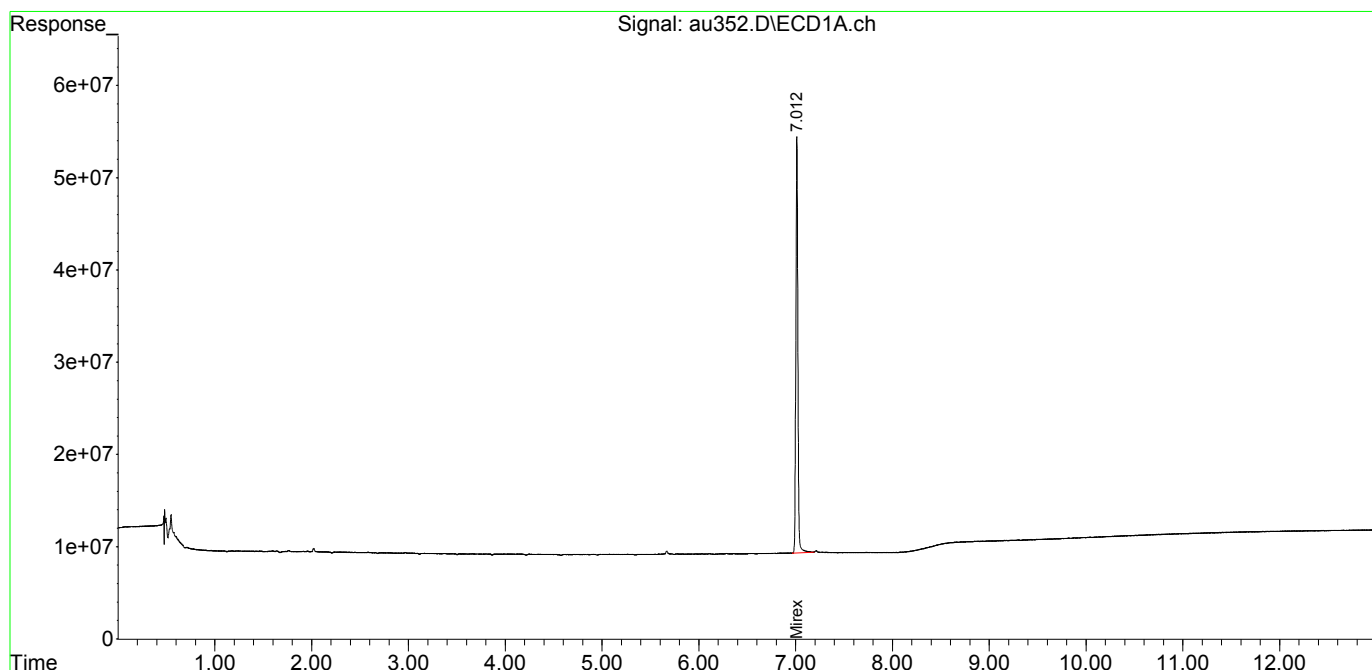
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
25) tc Mirex	7.012	7.978	669.0E6	465.7E6	44.458	43.966
Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au352.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 1:33 pm  
Operator : m.pedro  
Sample : mirex icv  
Misc : initial cal  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:47:45 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Mon Jan 08 14:46:24 2018  
Response via : Initial Calibration  
Integrator: ChemStation

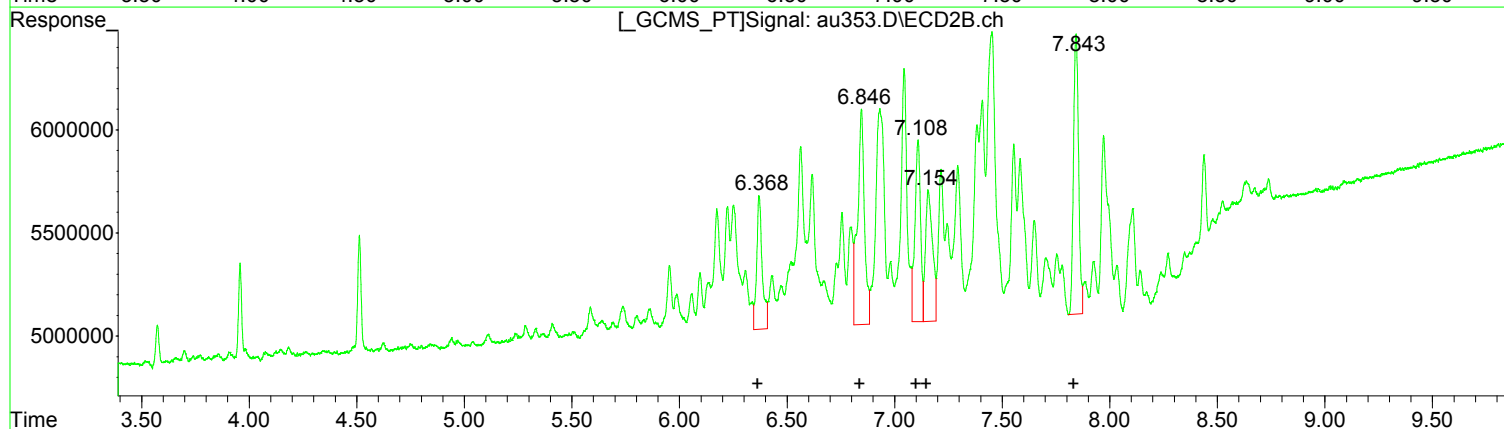
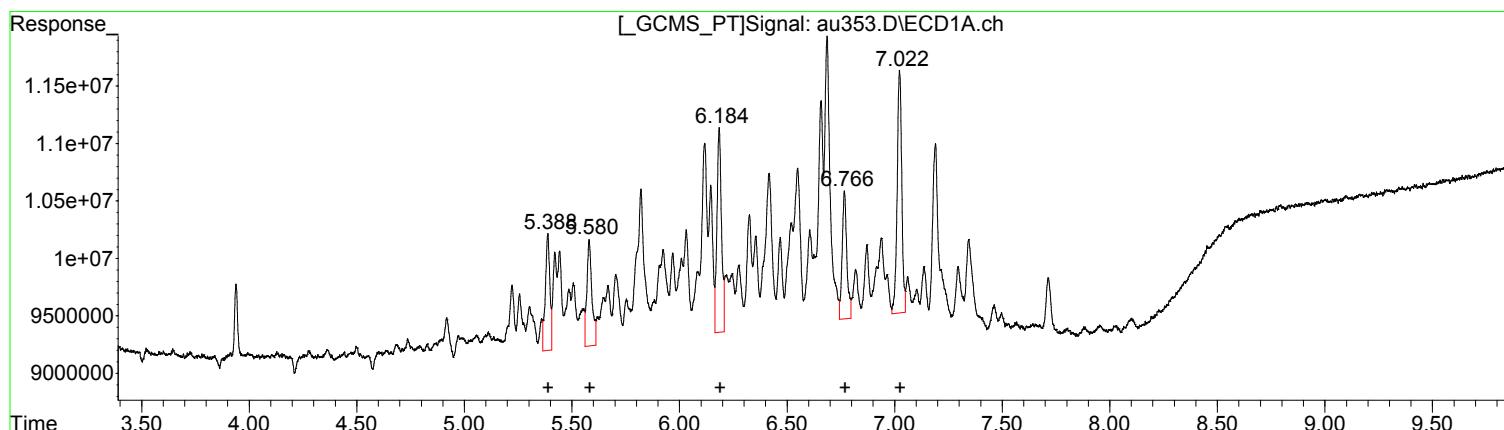
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au353.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 1:51 pm  
Operator : m.pedro  
Sample : tox 11  
Misc : initial cal  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:30:13 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(27) Toxaphene (L8C)		
R.T.	Response	Conc
5.39	14759160	33.96
5.58	15110426	33.48
6.18	26279330	30.23
6.77	16805708	29.95
7.02	31646584	27.47

Manual Integration:  
After  
Poor integration.  
01/09/18

(27) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.37	11722456	47.56
6.85	23600945	43.50
7.11	16356818	39.52
7.16	14661262	42.83
7.84	22476002	42.13

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au353.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 1:51 pm  
 Operator : m.pedro  
 Sample : tox 11  
 Misc : initial cal  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:30:13 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

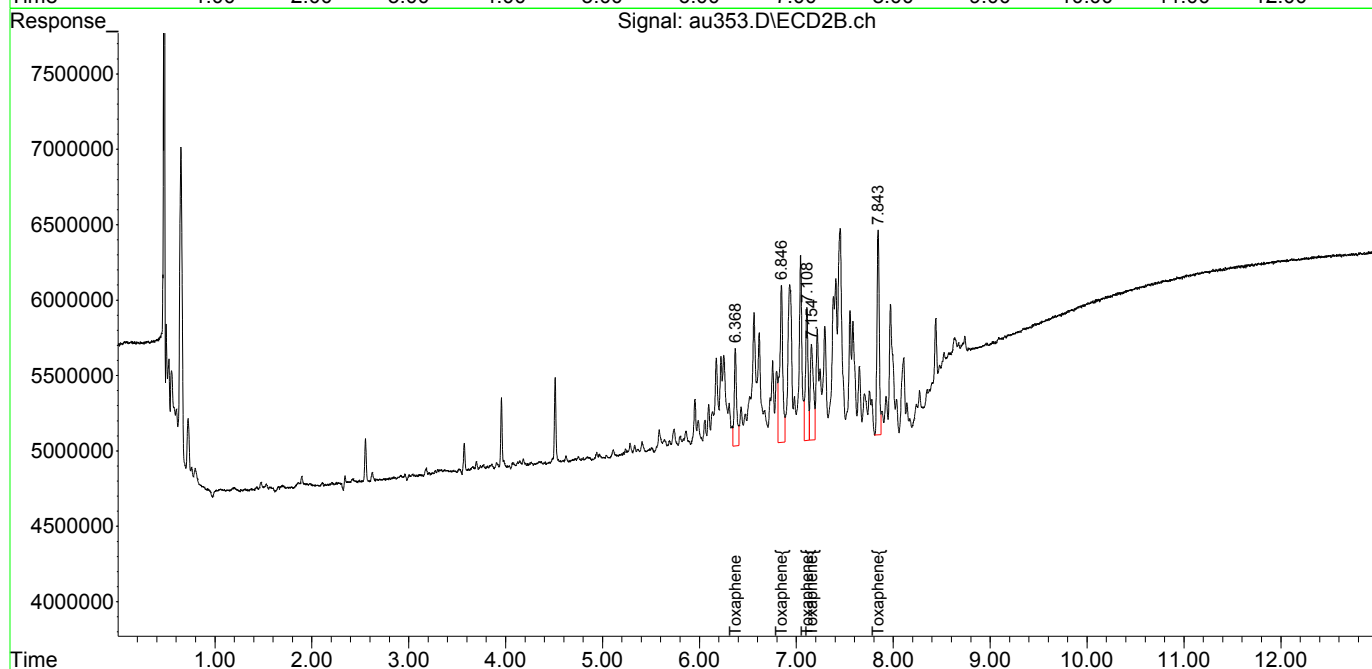
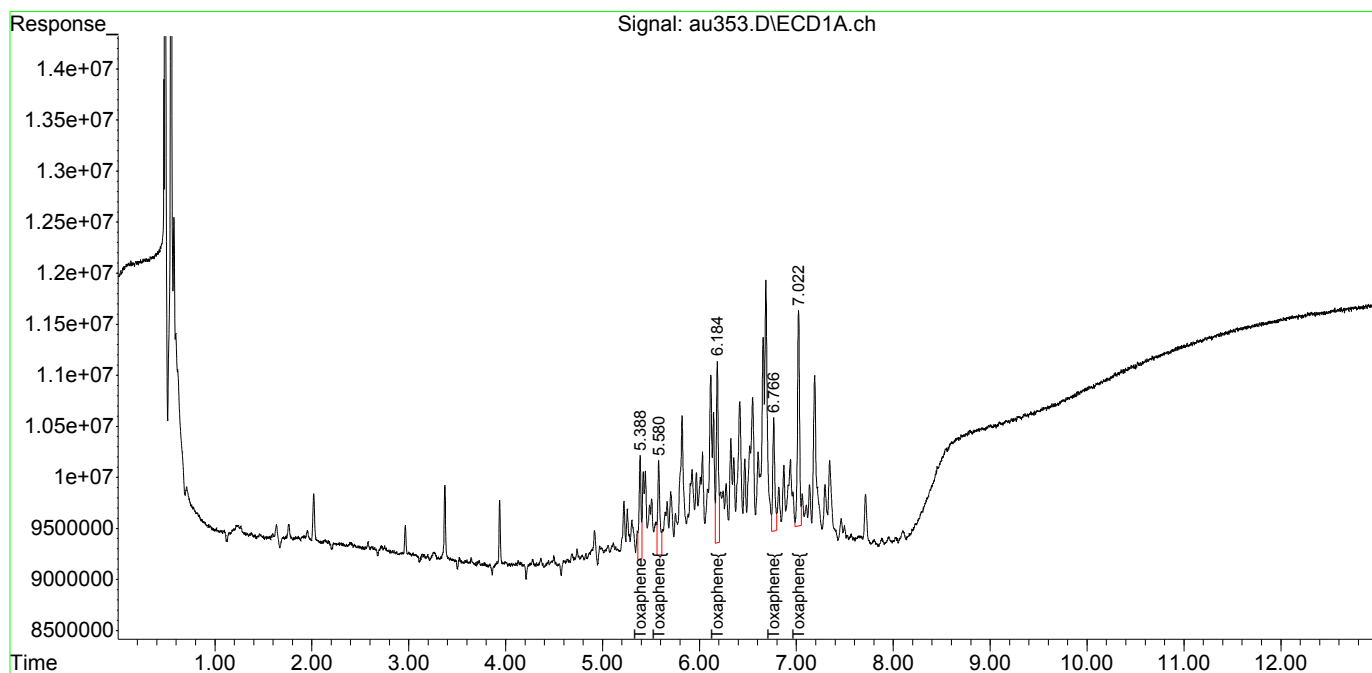
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
27) L8C Toxaphene	5.388	6.368	14759160	11722456	33.955	47.561m#
28) L8C Toxaphene{2}	5.580	6.846	15110426	23600945	33.475	43.496 #
29) L8C Toxaphene{3}	6.185	7.109	26279330	16356818	30.233	39.520 #
30) L8C Toxaphene{4}	6.766	7.155	16805708	14661262	29.949	42.830 #
31) L8C Toxaphene{5}	7.023	7.843	31646584	22476002	27.475	42.126 #
Sum Toxaphene			104.6E6	88817484	155.087	215.533
Average Toxaphene					31.017	43.107
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au353.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 1:51 pm  
Operator : m.pedro  
Sample : tox 11  
Misc : initial cal  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:30:13 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

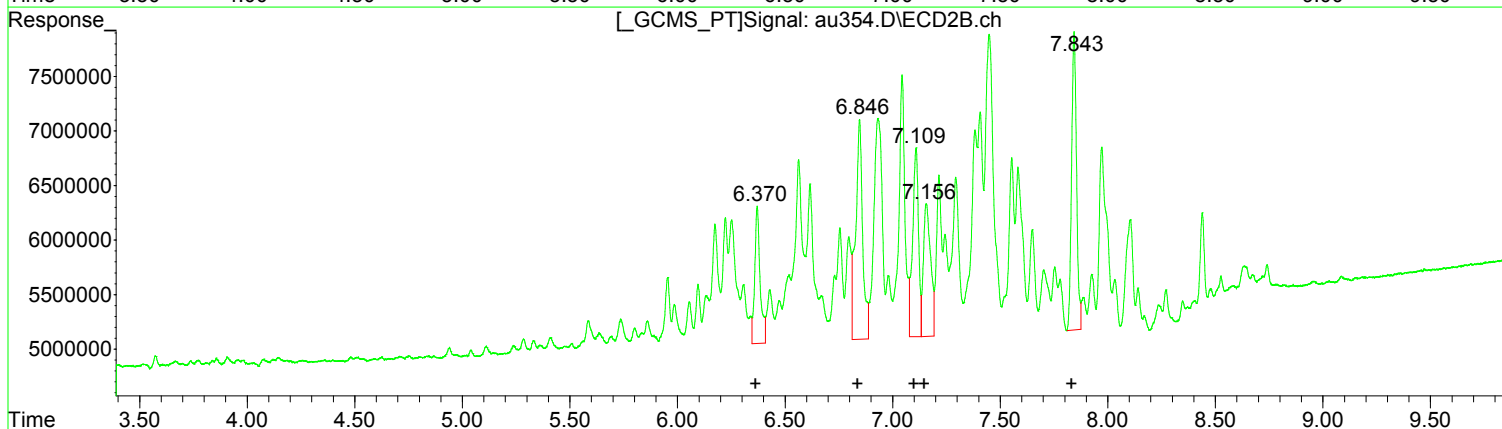
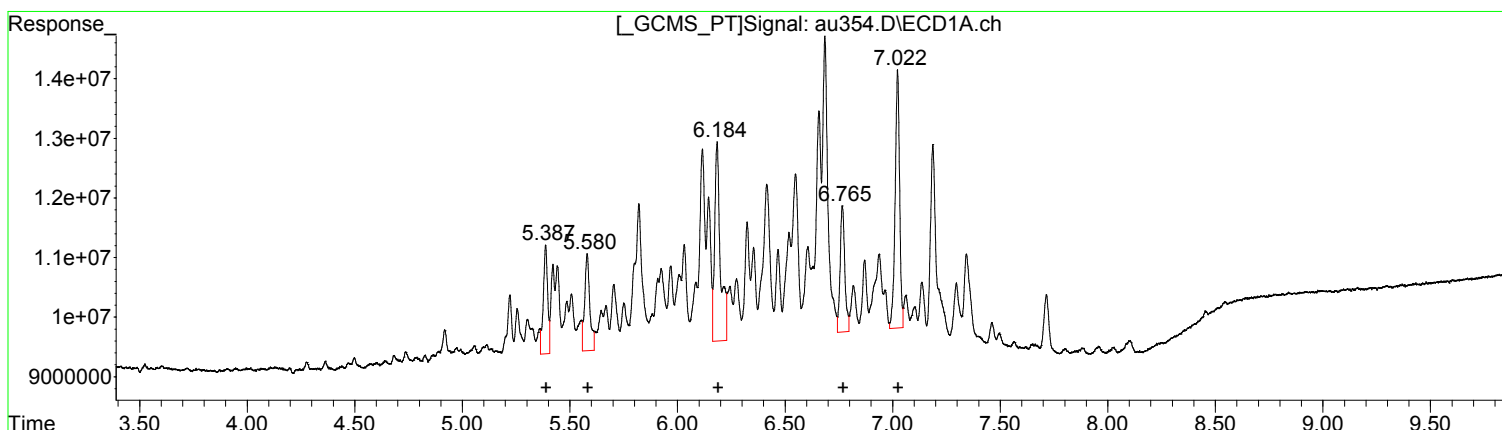
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au354.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 2:09 pm  
 Operator : m.pedro  
 Sample : tox 1  
 Misc : initial cal  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:30:17 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(27) Toxaphene (L8C)

R.T.	Response	Conc
5.39	25898473	59.58
5.58	27213355	60.29
6.18	61751529	71.04
6.77	32081091	57.17
7.02	62681410	54.42

Manual Integration:  
 After  
 Poor integration.  
 01/09/18

(27) Toxaphene #2 (L8C)

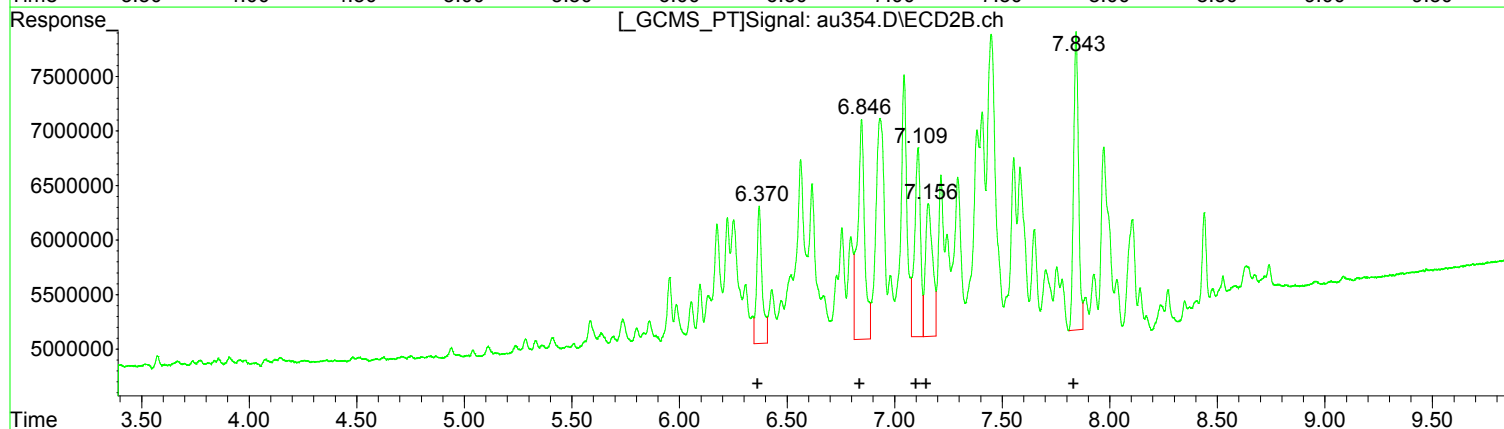
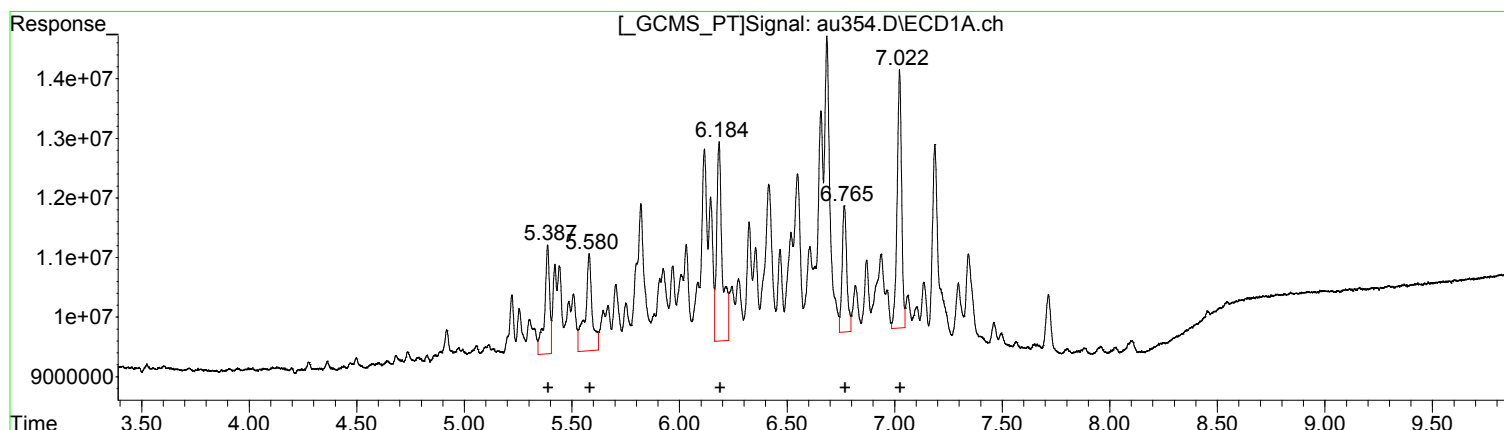
R.T.	Response	Conc
6.37	21801239	88.45
6.85	45941189	84.67
7.11	33628119	81.25
7.16	28786409	84.09
7.84	43644181	81.80



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au354.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 2:09 pm  
Operator : m.pedro  
Sample : tox 1  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:30:17 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(27) Toxaphene (L8C)		
R.T.	Response	Conc
5.39	30020174	69.07
5.58	36976959	81.92
6.18	61751529	71.04
6.77	32081091	57.17
7.02	62681410	54.42

Manual Integration:  
Before  
01/09/18

(27) Toxaphene #2 (L8C)		
R.T.	Response	Conc
6.37	21801239	88.45
6.85	45941189	84.67
7.11	33628119	81.25
7.16	28786409	84.09
7.84	43644181	81.80

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au354.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 2:09 pm  
 Operator : m.pedro  
 Sample : tox 1  
 Misc : initial cal  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 08 14:30:17 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Thu Jan 04 10:58:32 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

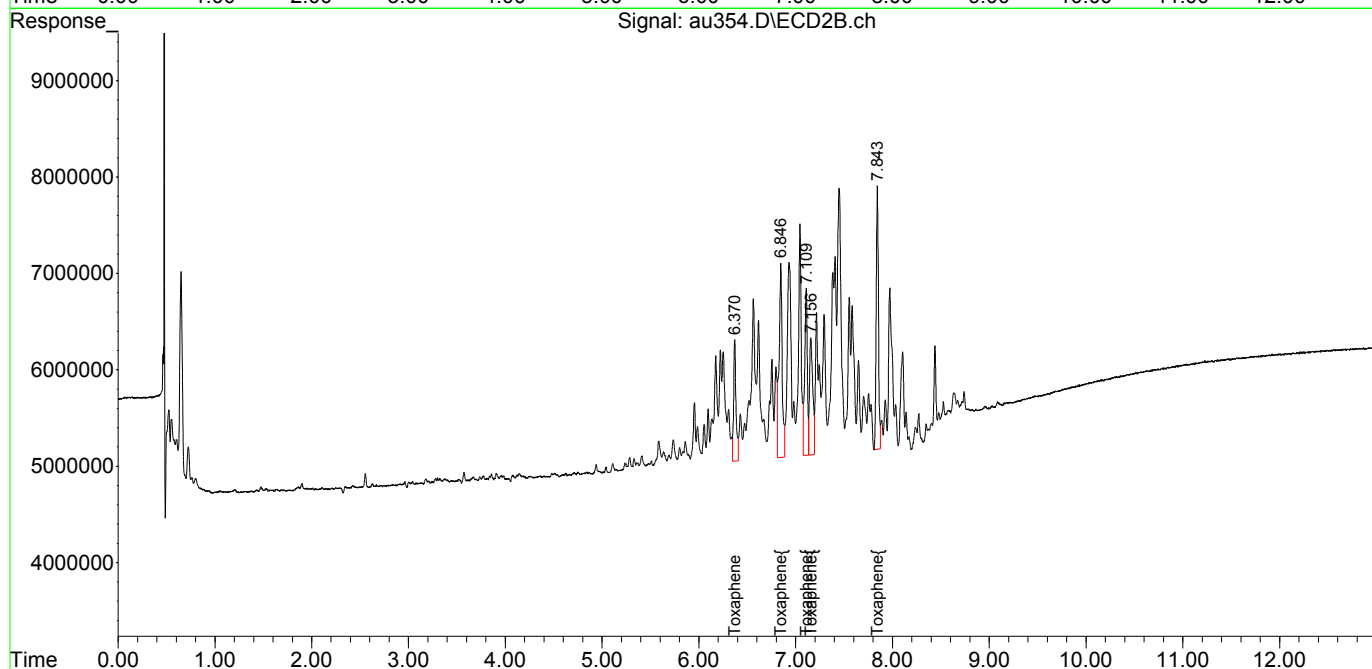
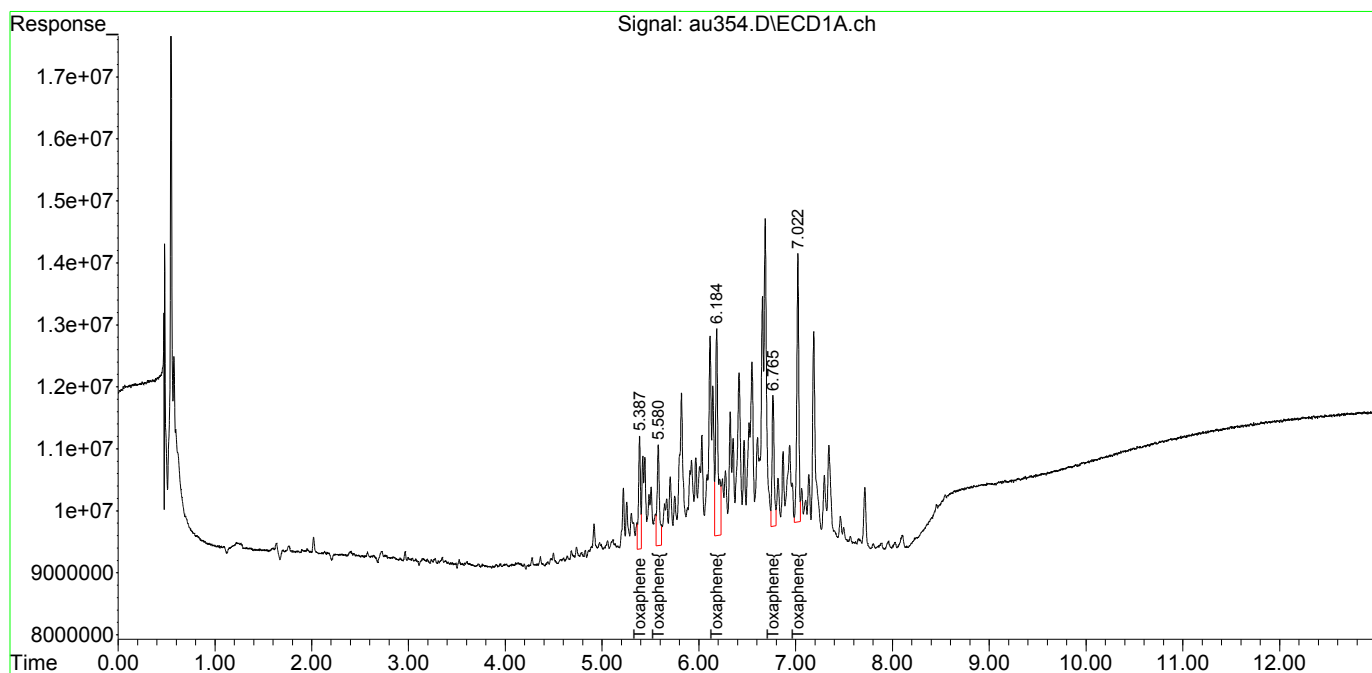
27) L8C Toxaphene	5.387	6.370	25898473	21801239	59.583m	88.453 #
28) L8C Toxaphene{2}	5.580	6.846	27213355	45941189	60.288m	84.668 #
29) L8C Toxaphene{3}	6.184	7.109	61751529	33628119	71.042	81.250
30) L8C Toxaphene{4}	6.766	7.156	32081091	28786409	57.170	84.094 #
31) L8C Toxaphene{5}	7.023	7.843	62681410	43644181	54.418	81.800 #
Sum Toxaphene			209.6E6	173.8E6	302.501	420.265
Average Toxaphene					60.500	84.053
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au354.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 2:09 pm  
Operator : m.pedro  
Sample : tox 1  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 08 14:30:17 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Thu Jan 04 10:58:32 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au355.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 2:28 pm  
 Operator : m.pedro  
 Sample : tox ml  
 Misc : initial cal  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:19:20 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:19:10 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

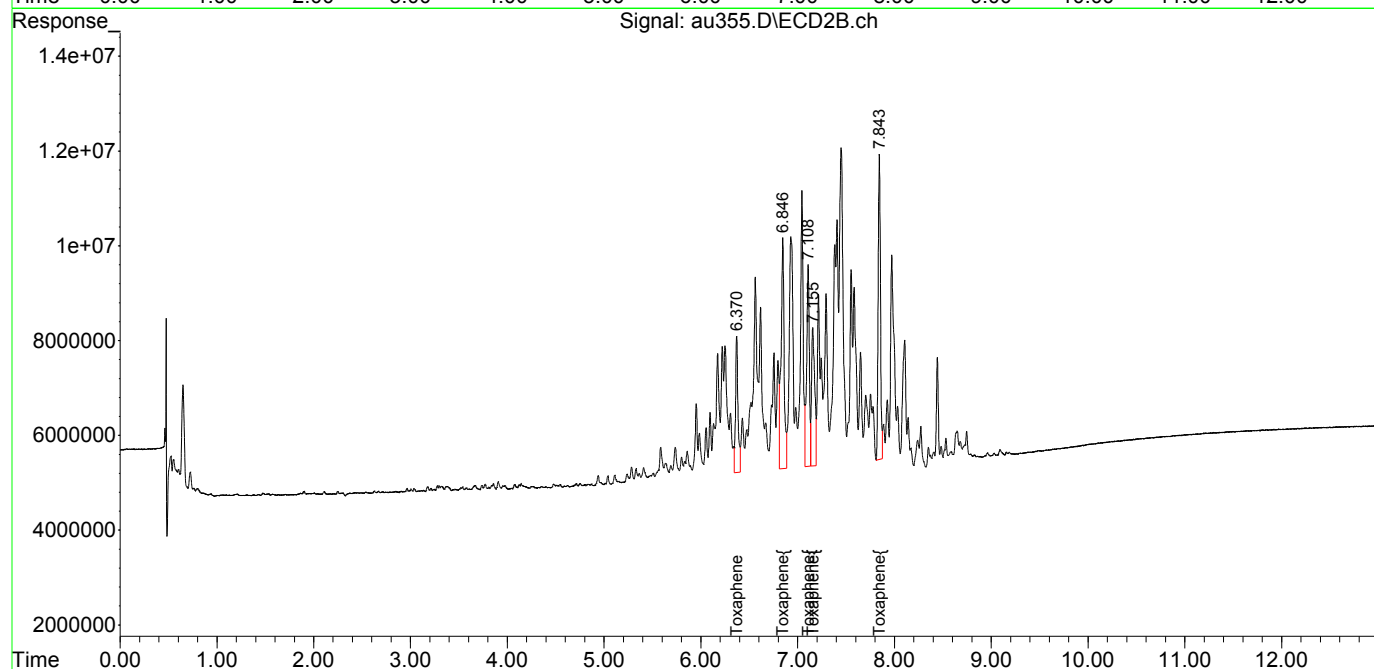
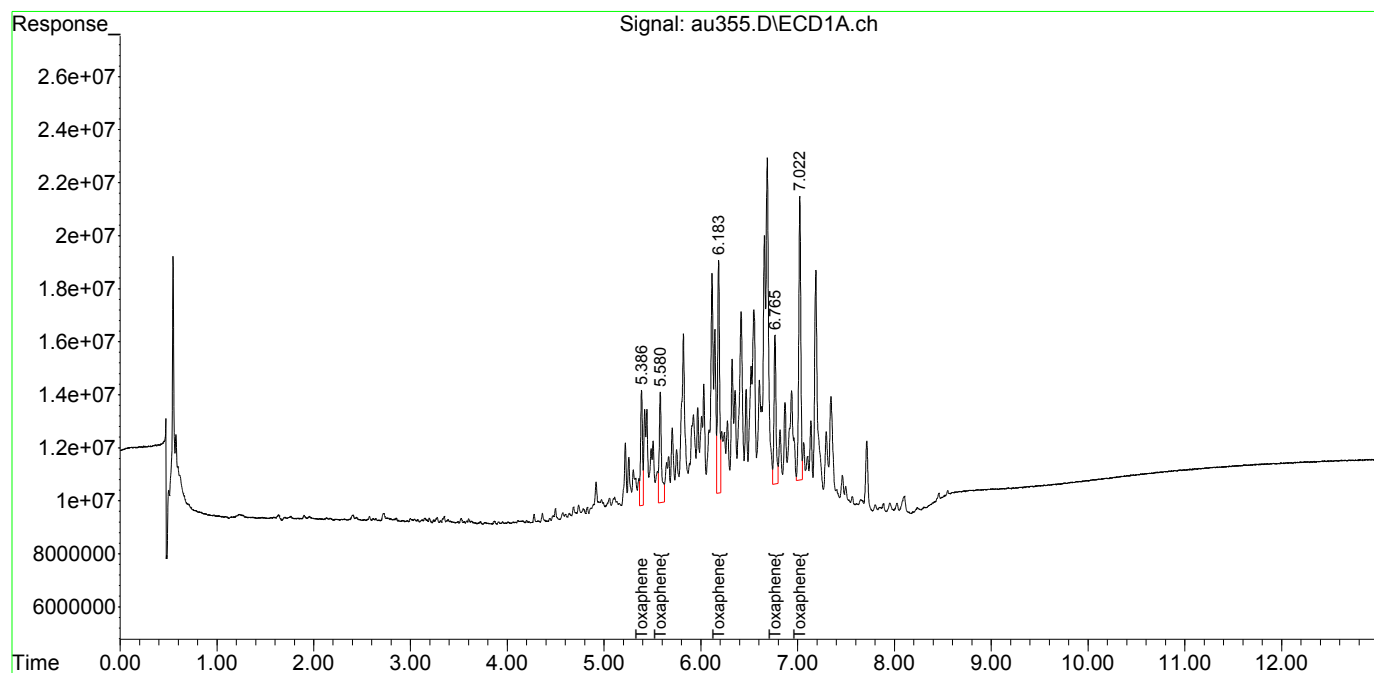
27) L8C Toxaphene	5.387	6.370	60111519	51024079	167.551	223.500 #
28) L8C Toxaphene{2}	5.580	6.846	69499747	108.3E6	185.179	214.690
29) L8C Toxaphene{3}	6.183	7.108	124.3E6	84532692	169.707	222.033 #
30) L8C Toxaphene{4}	6.766	7.156	83722461	68173621	179.765	216.438
31) L8C Toxaphene{5}	7.022	7.843	159.4E6	104.8E6	167.445	212.647 #
Sum Toxaphene			497.0E6	416.9E6	869.647	1089.309
Average Toxaphene					173.929	217.862
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au355.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 2:28 pm  
Operator : m.pedro  
Sample : tox ml  
Misc : initial cal  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:19:20 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:19:10 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au356.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 2:46 pm  
 Operator : m.pedro  
 Sample : tox m  
 Misc : initial cal  
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:20:58 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:20:49 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

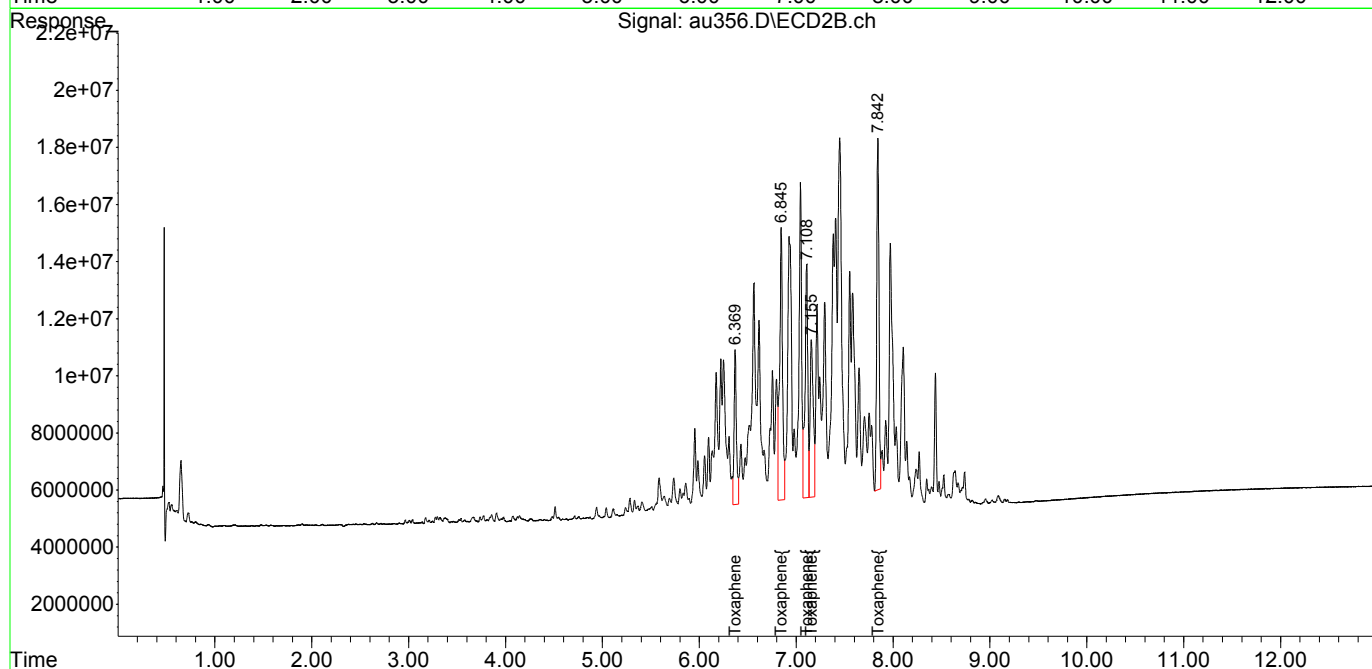
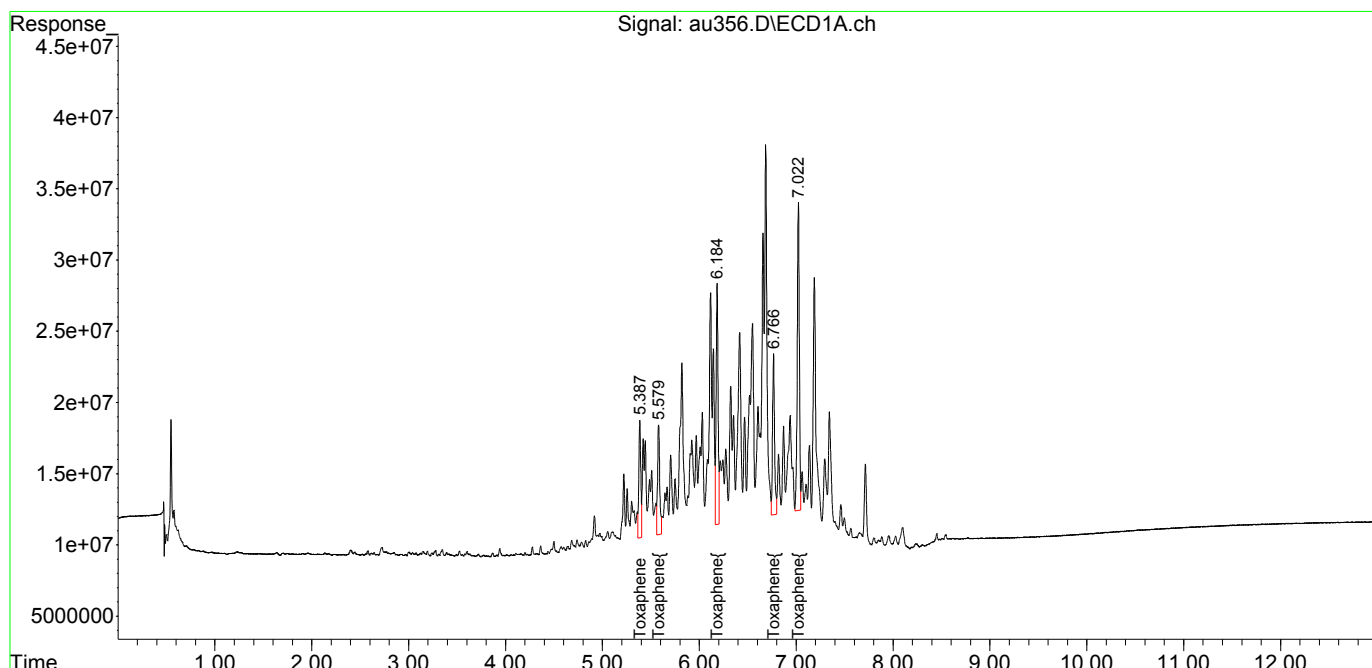
27) L8C Toxaphene	5.387	6.370	113.7E6	91658315	347.208	412.789
28) L8C Toxaphene{2}	5.580	6.845	121.0E6	197.7E6	351.197	407.452
29) L8C Toxaphene{3}	6.184	7.108	240.8E6	162.9E6	357.542	445.804
30) L8C Toxaphene{4}	6.766	7.156	164.0E6	128.2E6	381.110	422.357
31) L8C Toxaphene{5}	7.023	7.843	320.7E6	198.3E6	369.794	417.651
Sum Toxaphene			960.1E6	778.8E6	1806.851	2106.054
Average Toxaphene					361.370	421.211
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au356.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 2:46 pm  
Operator : m.pedro  
Sample : tox m  
Misc : initial cal  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:20:58 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:20:49 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au357.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 3:04 pm  
 Operator : m.pedro  
 Sample : tox mh  
 Misc : initial cal  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:23:16 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:22:45 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
27) L8C Toxaphene	5.387	6.371	163.9E6	133.2E6	547.487	620.830
28) L8C Toxaphene{2}	5.580	6.846	193.5E6	292.0E6	615.739	627.609
29) L8C Toxaphene{3}	6.184	7.108	360.3E6	233.6E6	583.144	664.269
30) L8C Toxaphene{4}	6.766	7.158	246.4E6	185.2E6	621.137	632.643
31) L8C Toxaphene{5}	7.023	7.844	481.3E6	291.5E6	609.628	638.765
Sum Toxaphene			1445.5E6	1135.5E6	2977.134	3184.115
Average Toxaphene					595.427	636.823
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

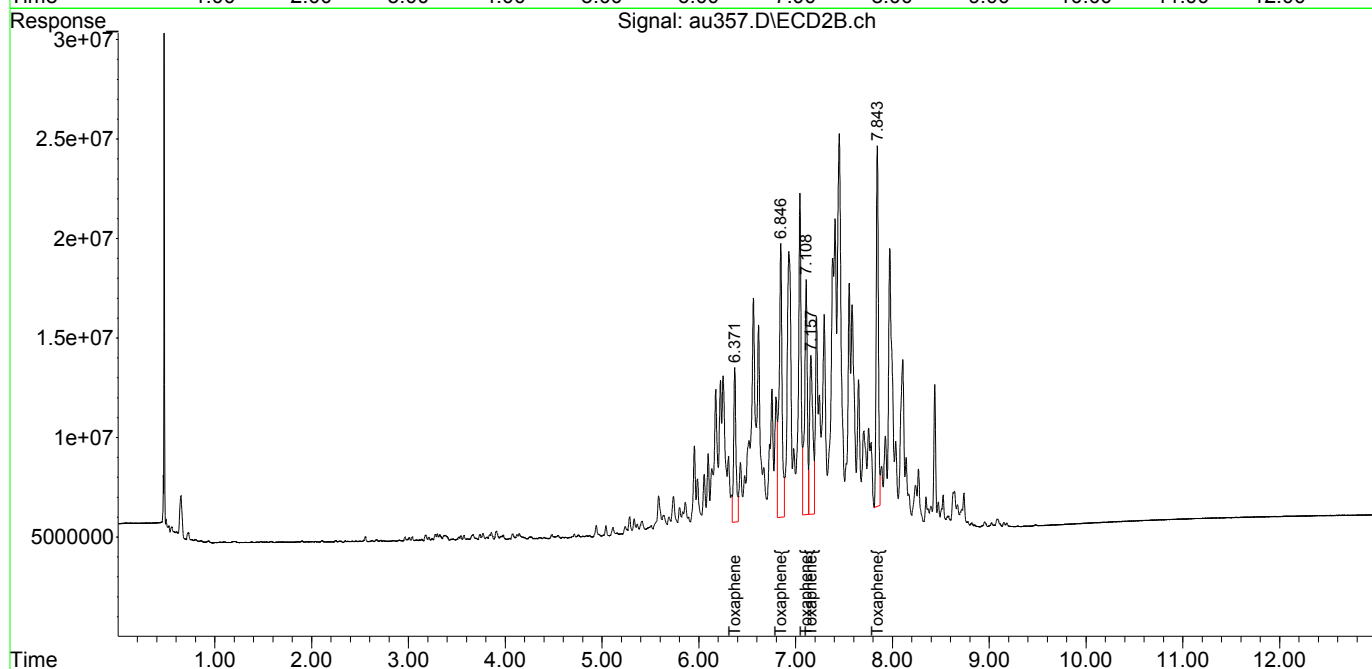
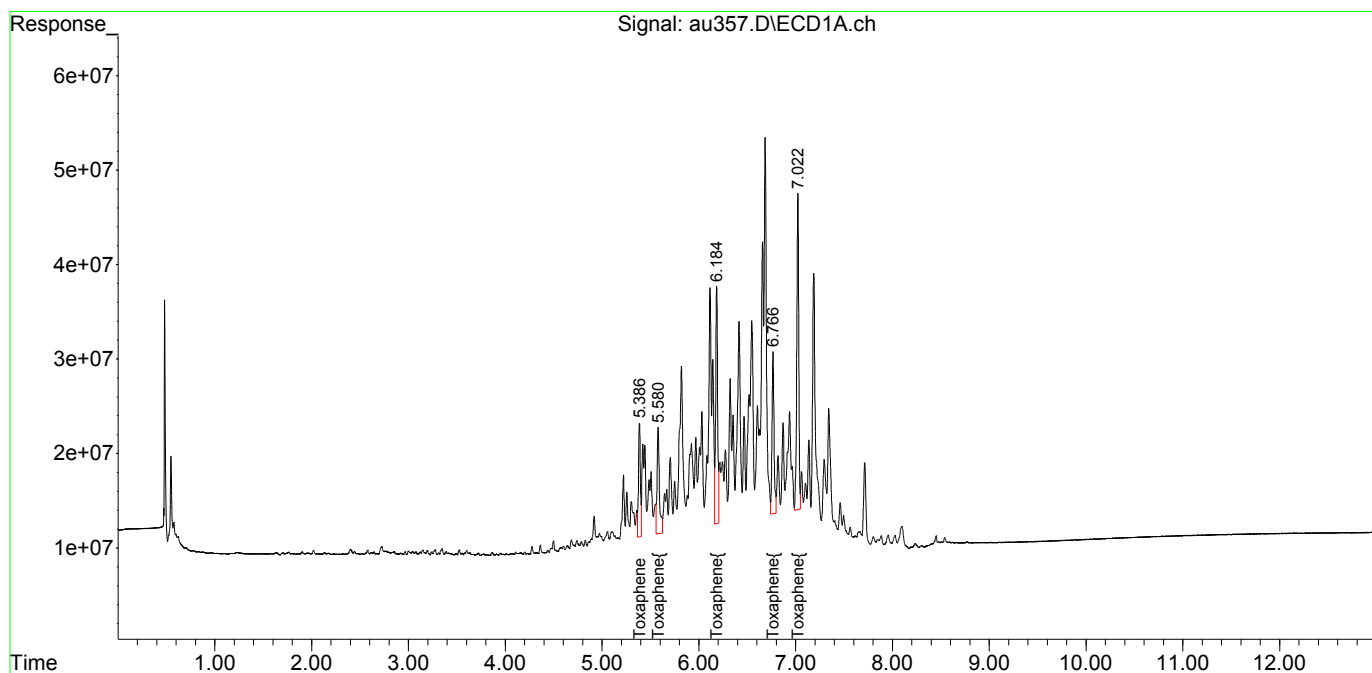
-----  
 (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au357.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 3:04 pm  
Operator : m.pedro  
Sample : tox mh  
Misc : initial cal  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:23:16 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:22:45 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au358.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 3:22 pm  
 Operator : m.pedro  
 Sample : tox h  
 Misc : initial cal  
 ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:24:45 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:24:12 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

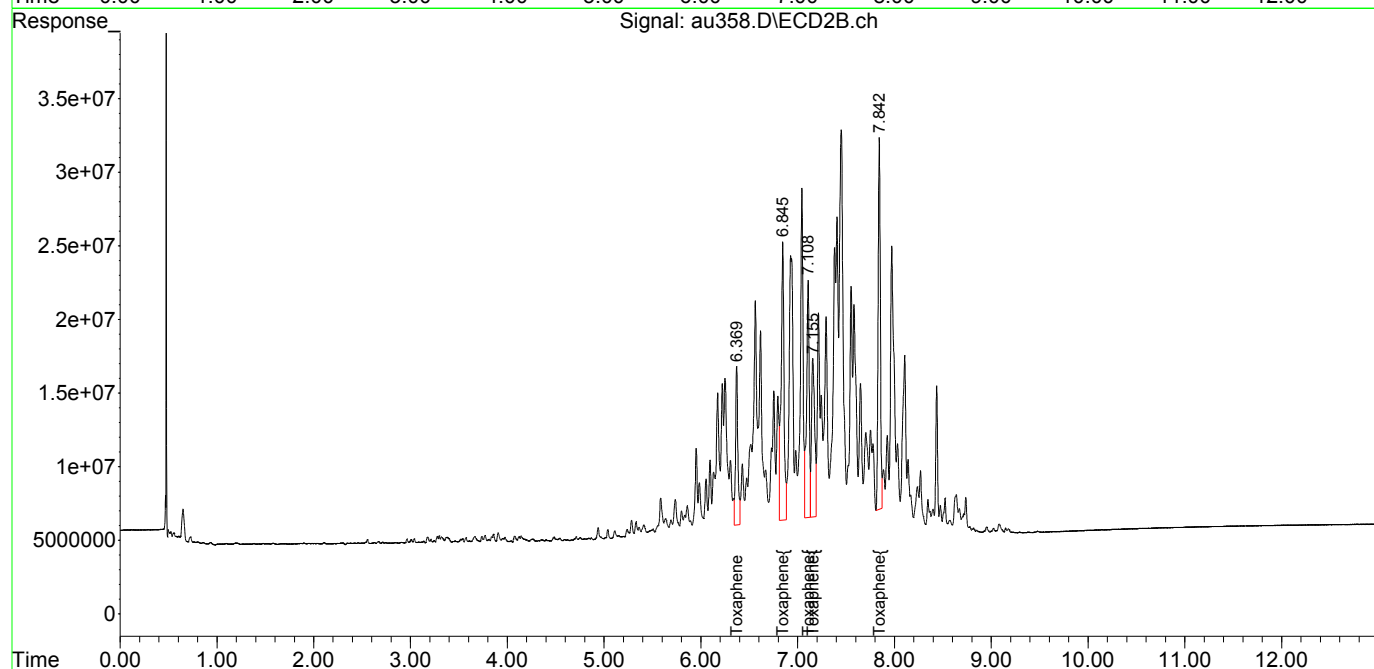
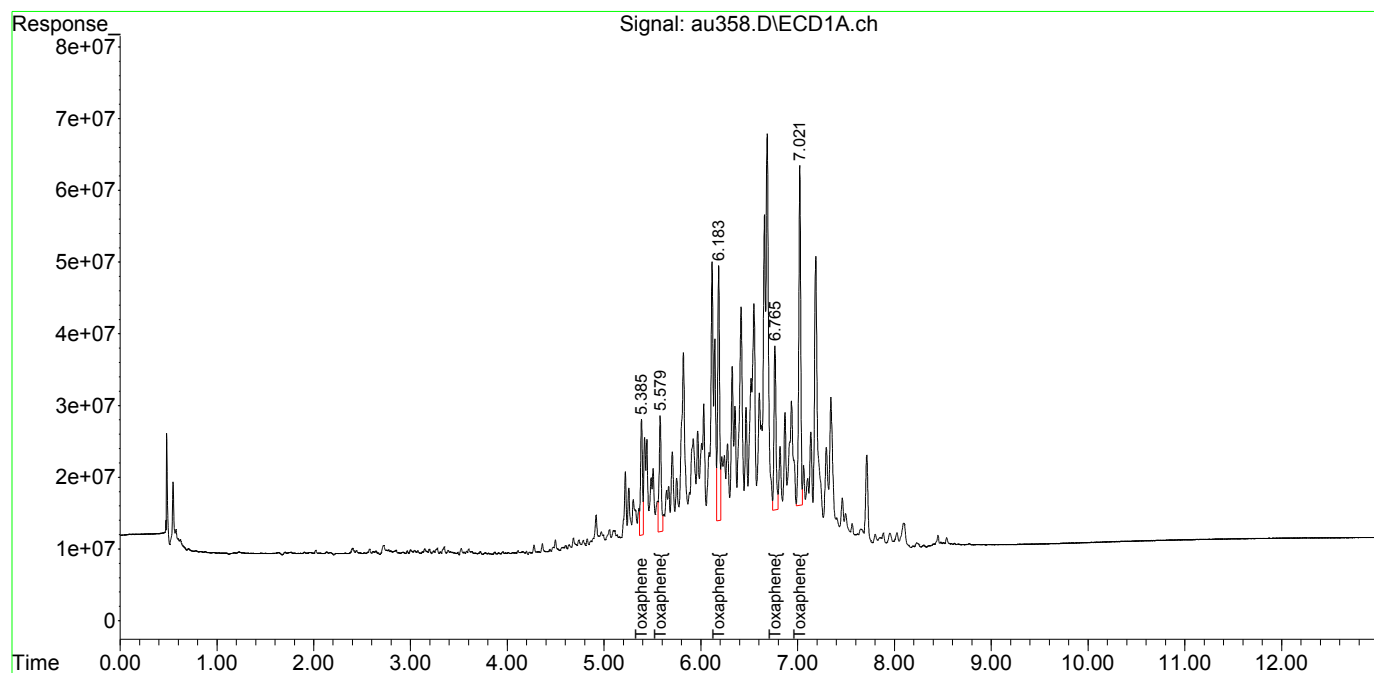
27) L8C Toxaphene	5.386	6.370	223.2E6	177.8E6	825.181	860.430
28) L8C Toxaphene{2}	5.579	6.845	236.1E6	397.7E6	812.669	894.024
29) L8C Toxaphene{3}	6.184	7.108	493.2E6	319.4E6	872.953	951.542
30) L8C Toxaphene{4}	6.766	7.156	339.3E6	251.9E6	937.556	899.576
31) L8C Toxaphene{5}	7.022	7.843	670.6E6	402.3E6	941.258	925.196
Sum Toxaphene			1962.5E6	1549.1E6	4389.616	4530.768
Average Toxaphene					877.923	906.154
Sum Chlordane			0	0	N.D.	N.D.
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au358.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 3:22 pm  
Operator : m.pedro  
Sample : tox h  
Misc : initial cal  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:24:45 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:24:12 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au359.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 3:40 pm  
 Operator : m.pedro  
 Sample : tox icv  
 Misc : initial cal  
 ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:26:06 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:25:40 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

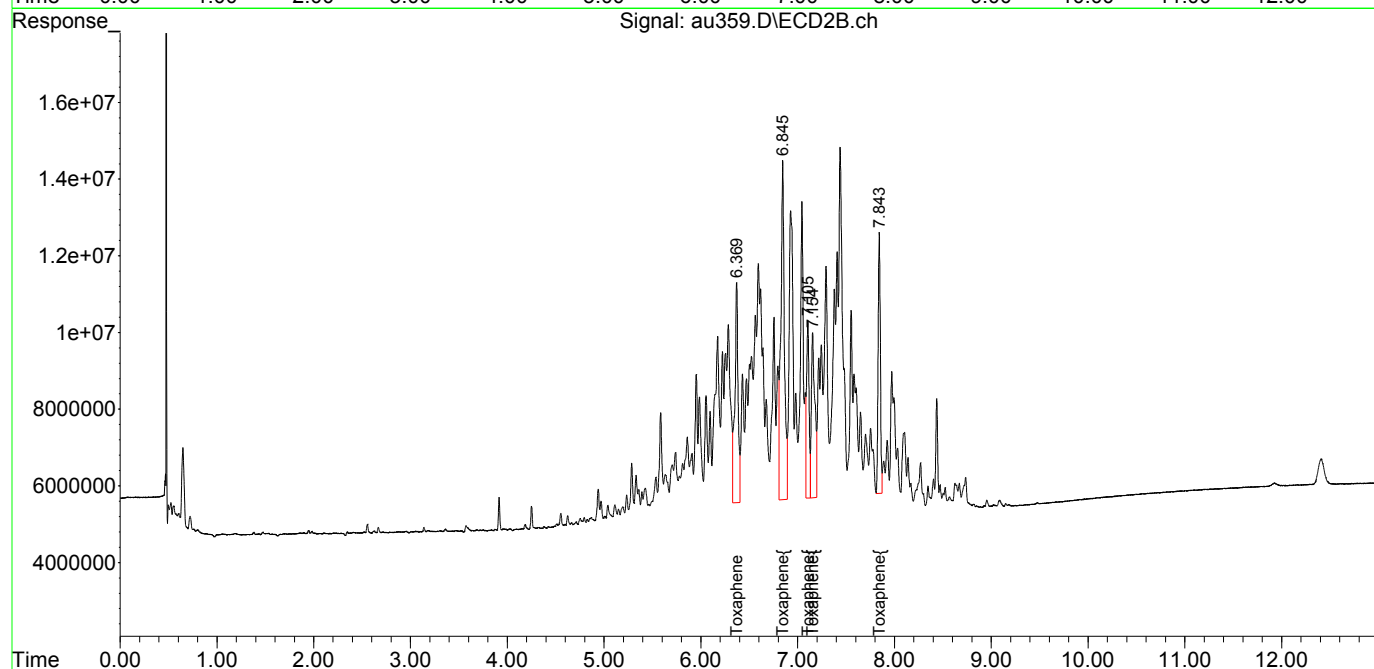
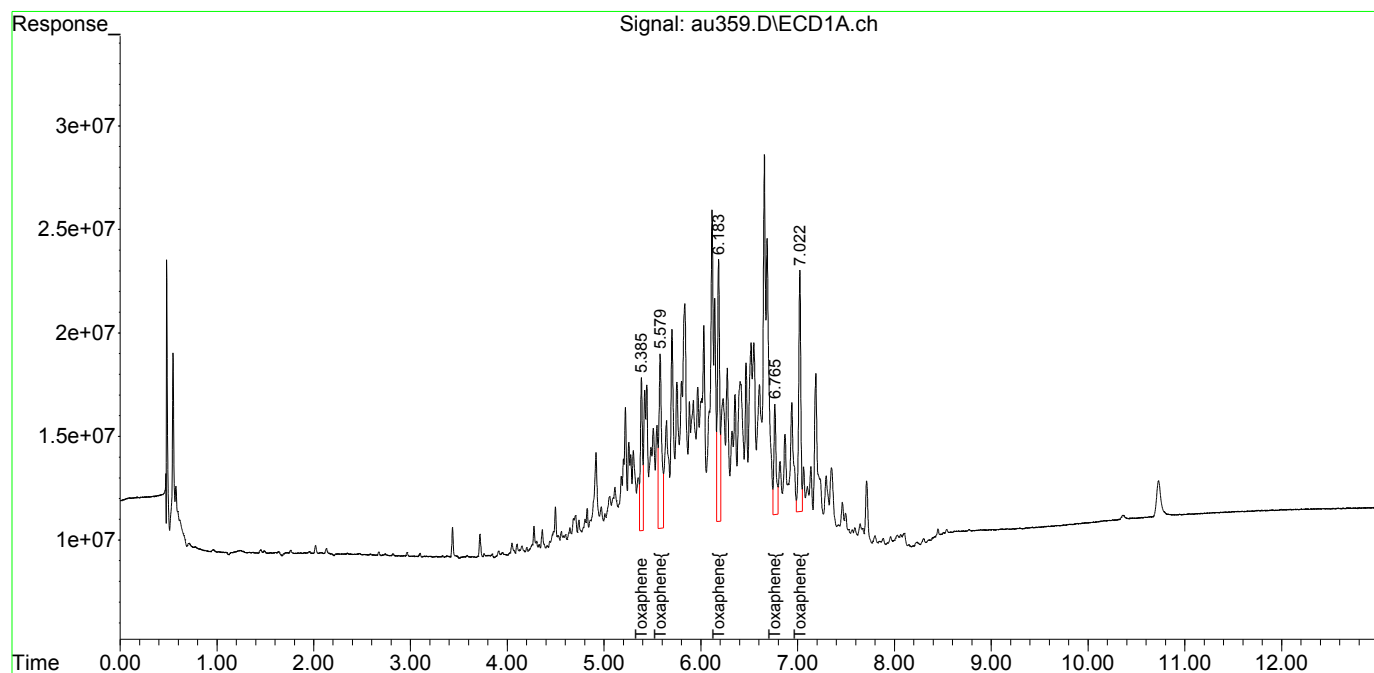
27) L8C Toxaphene	5.386	6.370	110.7E6	134.3E6	453.661	674.166 #
28) L8C Toxaphene{2}	5.579	6.845	171.3E6	229.2E6	646.994	539.915
29) L8C Toxaphene{3}	6.183	7.105	197.2E6	84523599	382.280	258.982 #
30) L8C Toxaphene{4}	6.765	7.154	89859651	108.1E6	271.269	402.906 #
31) L8C Toxaphene{5}	7.022	7.843	179.0E6	108.0E6	278.911	259.899
Sum Toxaphene			748.1E6	664.1E6	2033.115	2135.867
Average Toxaphene					406.623	427.173
Sum Chlordane			0	0	N.D. 81.2	N.D. 85.4%
Average Chlordane					0.000	0.000
Sum Dechlorane			0	0	N.D.	N.D.
Average Dechlorane					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au359.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 3:40 pm  
Operator : m.pedro  
Sample : tox icv  
Misc : initial cal  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:26:06 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:25:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au360.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 3:58 pm  
Operator : m.pedro  
Sample : chlor 1  
Misc : initial cal  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:27:01 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:25:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound RT#1 RT#2 Resp#1 Resp#2 ug/l ug/l

System Monitoring Compounds

Target Compounds

Sum Toxaphene 0 0 N.D. N.D.  
Average Toxaphene 0.000 0.000

32) L9C Chlordane 3.863 4.508 22030754 17633953 18.086 22.934 #  
33) L9C Chlordane{2} 4.003 4.689 45892961 29562772 19.073 22.171  
34) L9C Chlordane{3} 4.963 4.983 59340449 16232559 16.935 22.977 #  
35) L9C Chlordane{4} 5.593 5.722 12608375 41277852 12.718 21.780 #  
36) L9C Chlordane{5} 5.841 5.760 19540365 32199611 12.728 21.553 #  
Sum Chlordane 159.4E6 136.9E6 79.541 111.415  
Average Chlordane 15.908 22.283

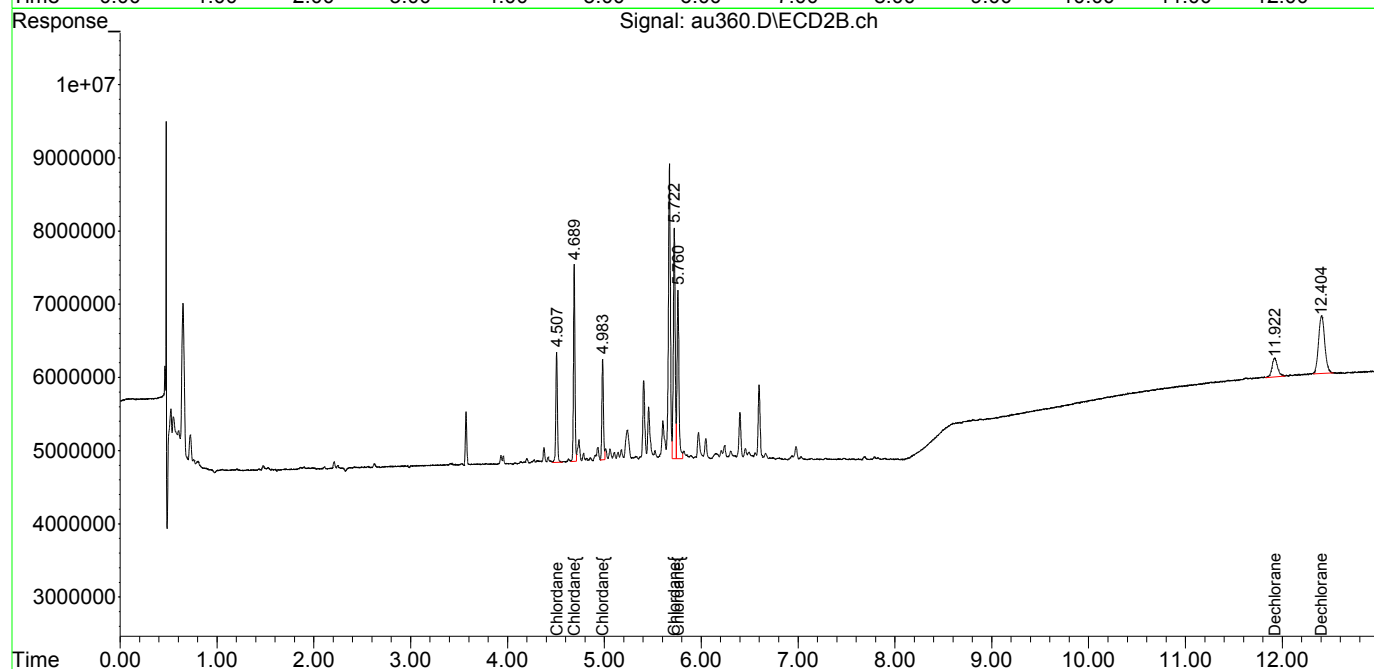
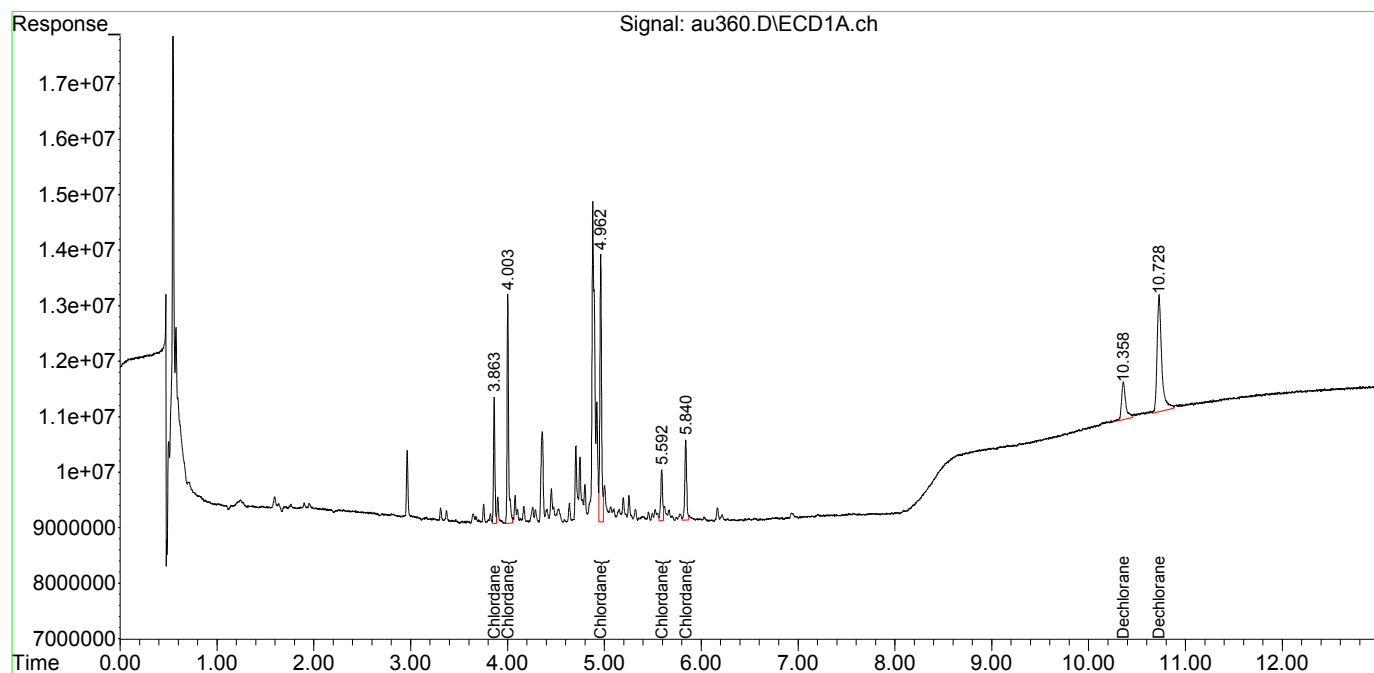
37) L10C Dechloran... 10.358 11.922 20395112 10347412 2.648 3.702 #  
38) L10C Dechloran... 10.728 12.404 69226419 34846160 2.592 3.589 #  
Sum Dechlorane 89621531 45193572 5.239 7.291  
Average Dechlorane 2.620 3.645

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au360.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 3:58 pm  
Operator : m.pedro  
Sample : chlor 1  
Misc : initial cal  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:27:01 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:25:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au361.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 4:16 pm  
 Operator : m.pedro  
 Sample : chlor ml  
 Misc : initial cal  
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:28:01 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:27:52 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

32) L9C Chlordane	3.864	4.508	42928097	33821368	38.245	45.519
33) L9C Chlordane{2}	4.003	4.690	88151885	57725802	39.177	44.933
34) L9C Chlordane{3}	4.962	4.983	115.2E6	31141964	36.060	46.812 #
35) L9C Chlordane{4}	5.593	5.722	26657013	79878408	29.460	43.967 #
36) L9C Chlordane{5}	5.840	5.761	46396527	61942192	33.369	44.033 #
Sum Chlordane			319.4E6	264.5E6	176.312	225.264
Average Chlordane					35.262	45.053

37) L10C Dechloran...	10.358	11.921	32016130	17653673	4.731	6.705 #
38) L10C Dechloran...	10.728	12.404	122.5E6	60979362	5.261	6.767 #
Sum Dechlorane			154.6E6	78633035	9.992	13.472
Average Dechlorane					4.996	6.736

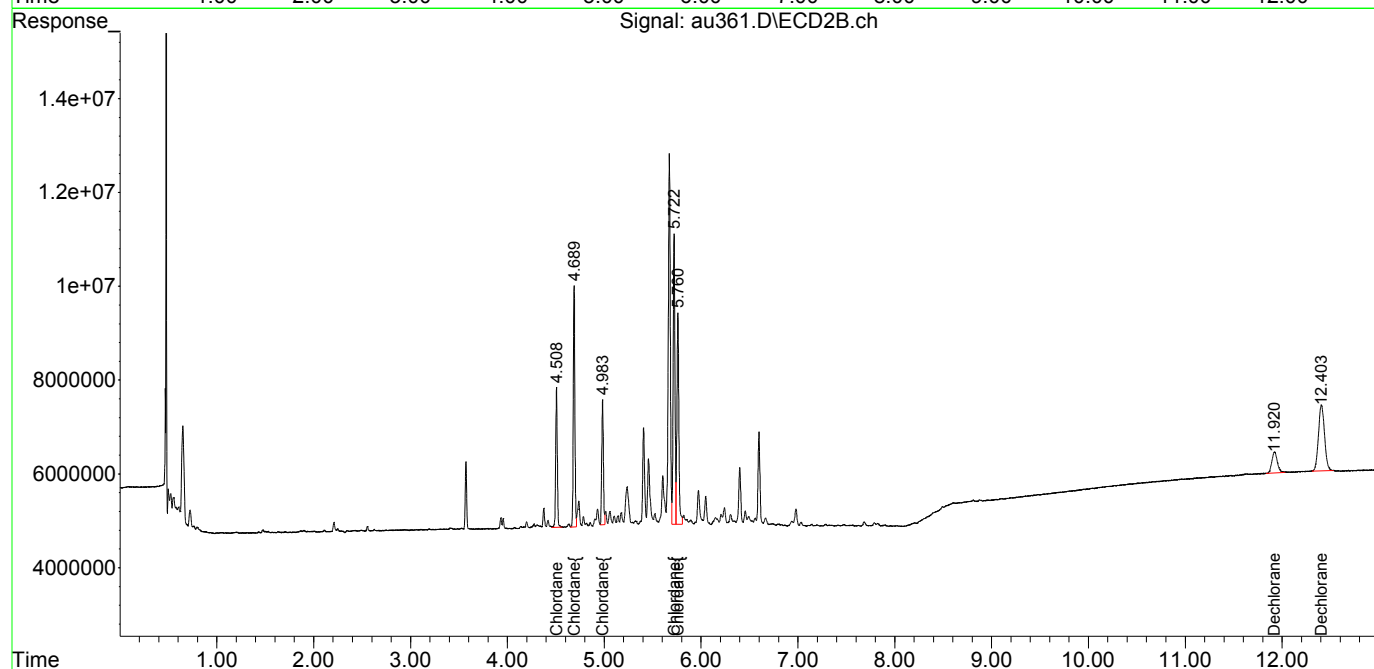
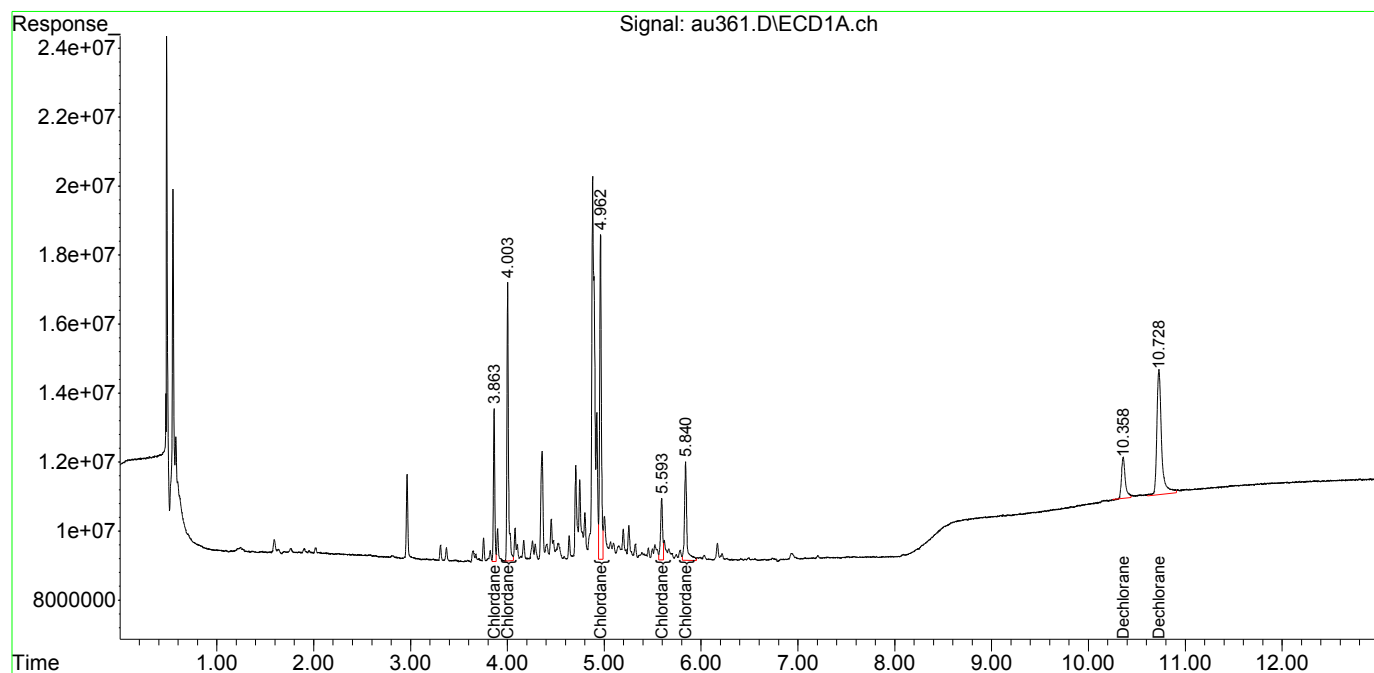
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au361.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 4:16 pm  
Operator : m.pedro  
Sample : chlor ml  
Misc : initial cal  
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:28:01 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:27:52 2018  
Response via : Initial Calibration  
Integrator: ChemStation

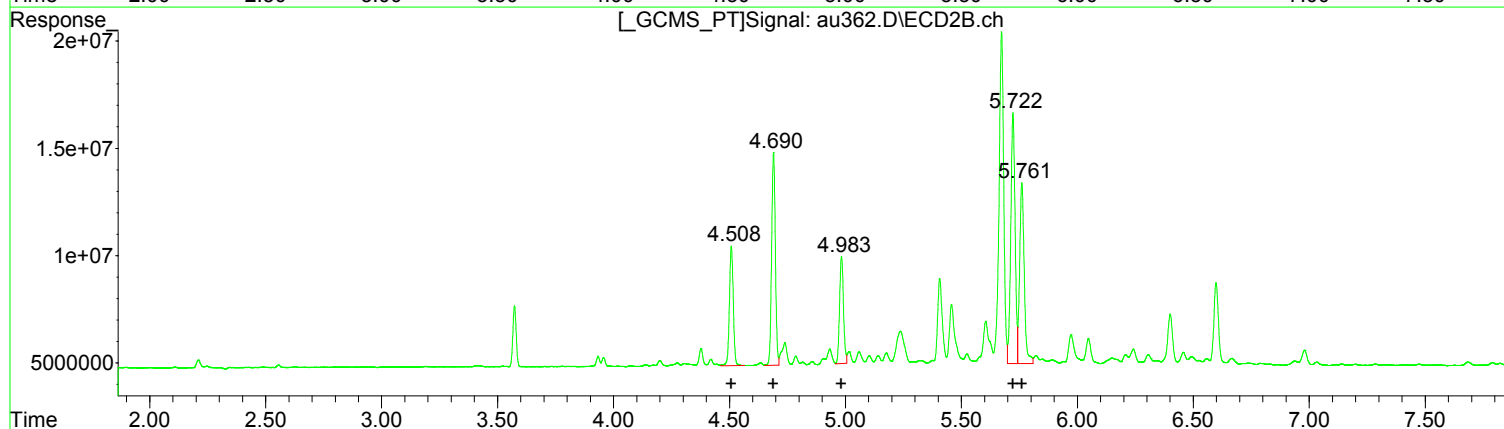
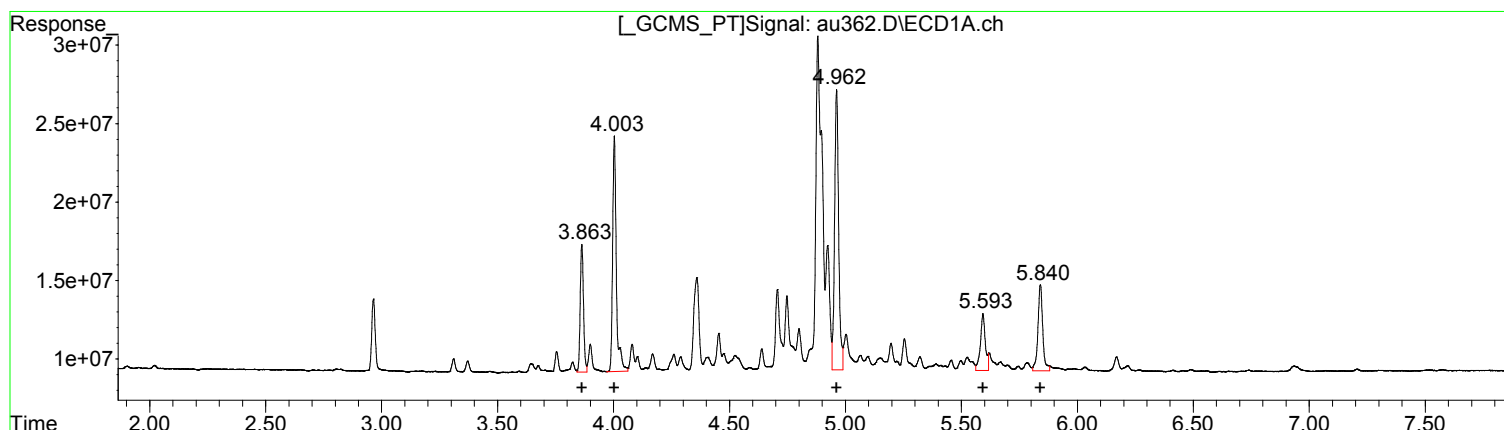
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au362.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 4:34 pm  
Operator : m.pedro  
Sample : chlor m  
Misc : initial cal  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:29:13 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:29:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(32) Chlordane (L9C)		
R.T.	Response	Conc
3.86	80416065	78.37
4.00	165771691	79.65
4.96	217514590	75.12
5.59	54455771	69.49
5.84	80078964	65.68

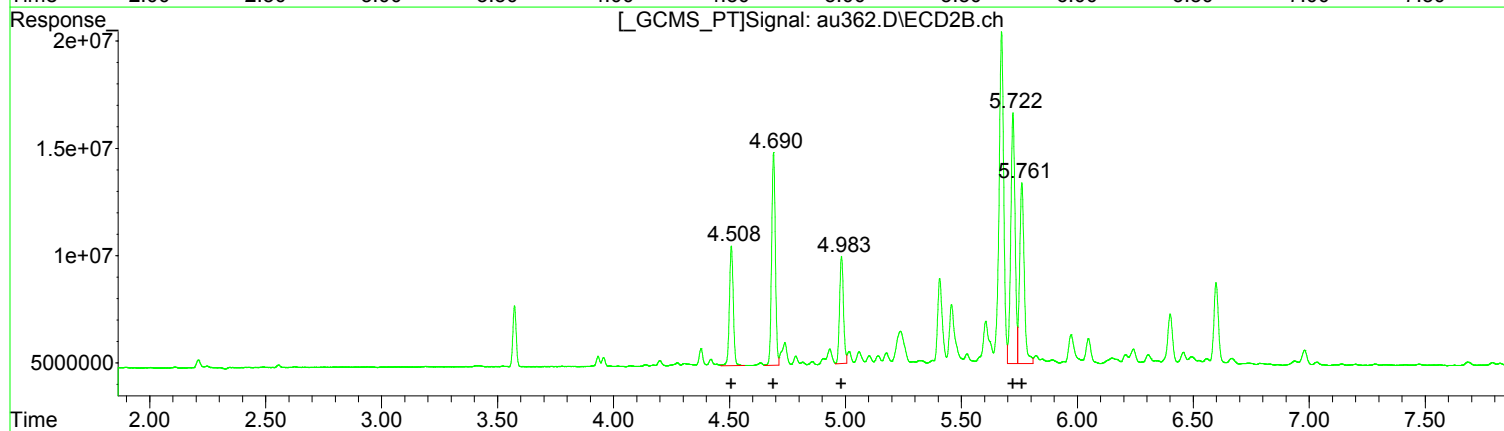
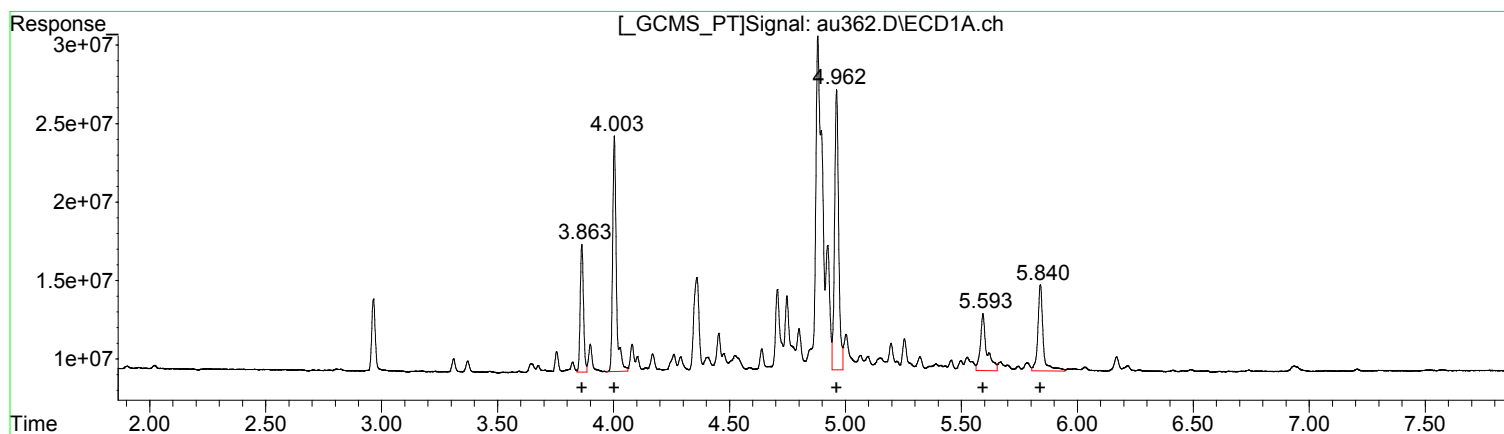
(32) Chlordane #2 (L9C)		
R.T.	Response	Conc
4.51	64667920	90.48
4.69	111037264	89.62
4.98	58431857	91.23
5.72	151990092	87.30
5.76	116414604	86.76

Manual Integration:  
After  
Poor integration.  
01/09/18

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au362.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 4:34 pm  
Operator : m.pedro  
Sample : chlor m  
Misc : initial cal  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:29:13 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:29:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(32) Chlordane (L9C)

R.T.	Response	Conc
3.86	80416065	78.37
4.00	165771691	79.65
4.96	217514590	75.12
5.59	68973818	88.01
5.84	87516536	71.78

Manual Integration:  
Before  
01/09/18

(32) Chlordane #2 (L9C)

R.T.	Response	Conc
4.51	64667920	90.48
4.69	111037264	89.62
4.98	58431857	91.23
5.72	151990092	87.30
5.76	116414604	86.76

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au362.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 4:34 pm  
 Operator : m.pedro  
 Sample : chlor m  
 Misc : initial cal  
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:29:13 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:29:03 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

32) L9C Chlordane	3.863	4.508	80416065	64667920	78.366	90.484
33) L9C Chlordane{2}	4.004	4.690	165.8E6	111.0E6	79.651	89.624
34) L9C Chlordane{3}	4.962	4.983	217.5E6	58431857	75.121	91.226
35) L9C Chlordane{4}	5.593	5.723	54455771	152.0E6	69.486m	87.303 #
36) L9C Chlordane{5}	5.840	5.761	80078964	116.4E6	65.675m	86.764 #
Sum Chlordane			598.2E6	502.5E6	368.299	445.401
Average Chlordane					73.660	89.080

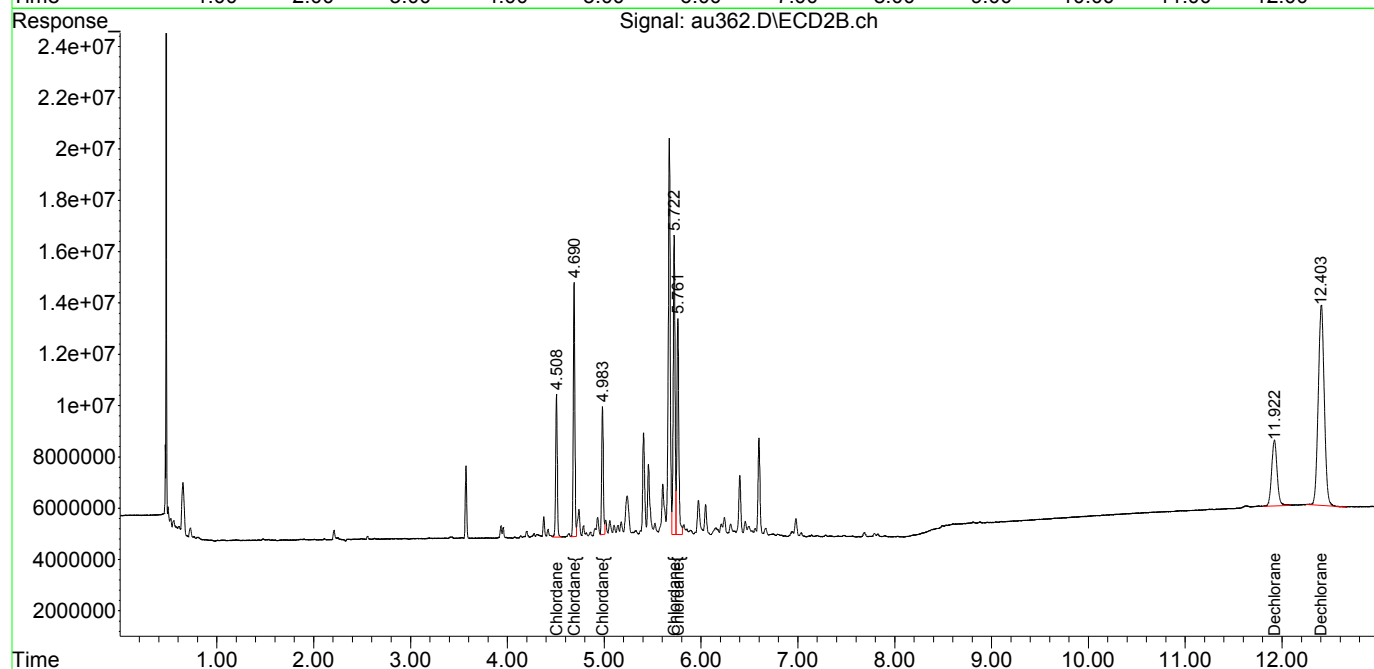
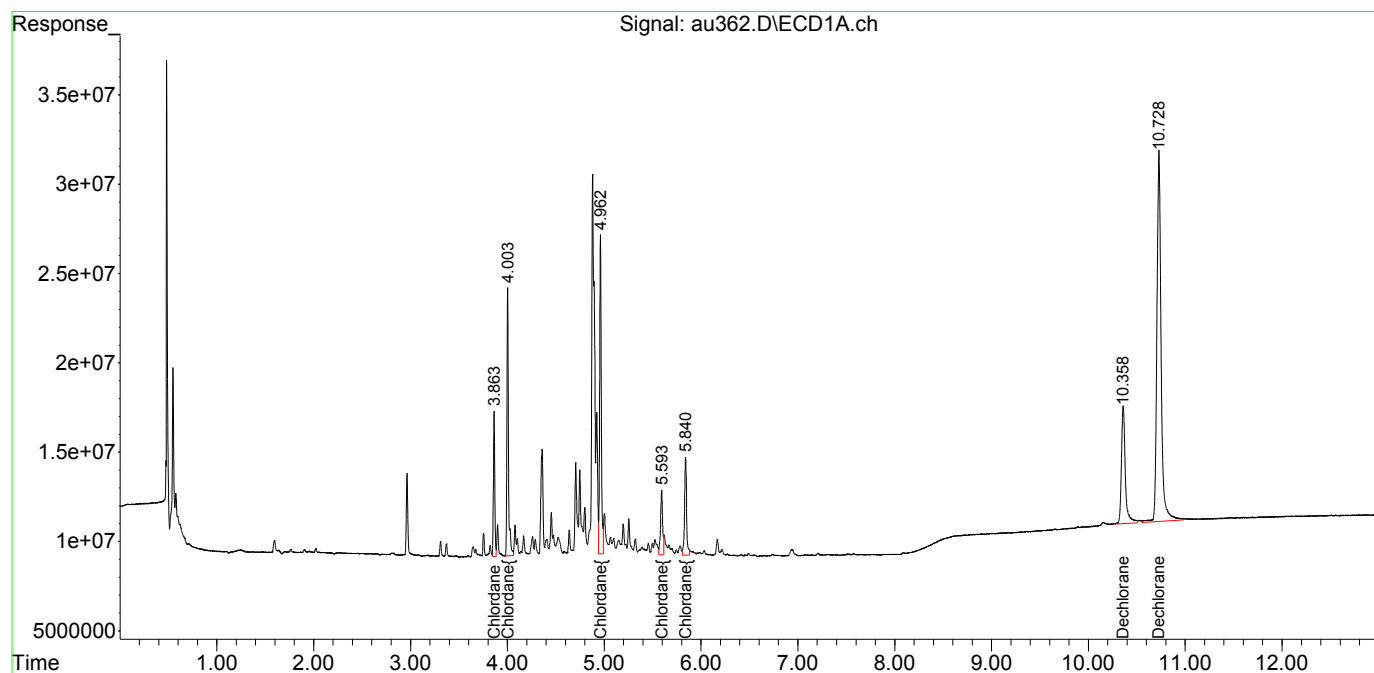
37) L10C Dechloran...	10.358	11.921	184.1E6	99921296	31.687	40.899 #
38) L10C Dechloran...	10.728	12.405	625.7E6	336.9E6	30.739	40.467 #
Sum Dechlorane			809.8E6	436.8E6	62.426	81.366
Average Dechlorane					31.213	40.683

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au362.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 4:34 pm  
Operator : m.pedro  
Sample : chlor m  
Misc : initial cal  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:29:13 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:29:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au363.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 4:52 pm  
 Operator : m.pedro  
 Sample : chlor mh  
 Misc : initial cal  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:30:20 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:30:08 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

32) L9C Chlordane	3.865	4.509	184.0E6	157.3E6	196.492	229.782
33) L9C Chlordane{2}	4.004	4.691	361.5E6	271.8E6	188.730	229.419
34) L9C Chlordane{3}	4.963	4.984	519.4E6	135.9E6	199.280	221.867
35) L9C Chlordane{4}	5.594	5.724	129.6E6	367.2E6	190.645	222.372
36) L9C Chlordane{5}	5.841	5.762	202.5E6	275.7E6	191.618	217.379
Sum Chlordane			1397.0E6	1207.9E6	966.765	1120.818
Average Chlordane					193.353	224.164

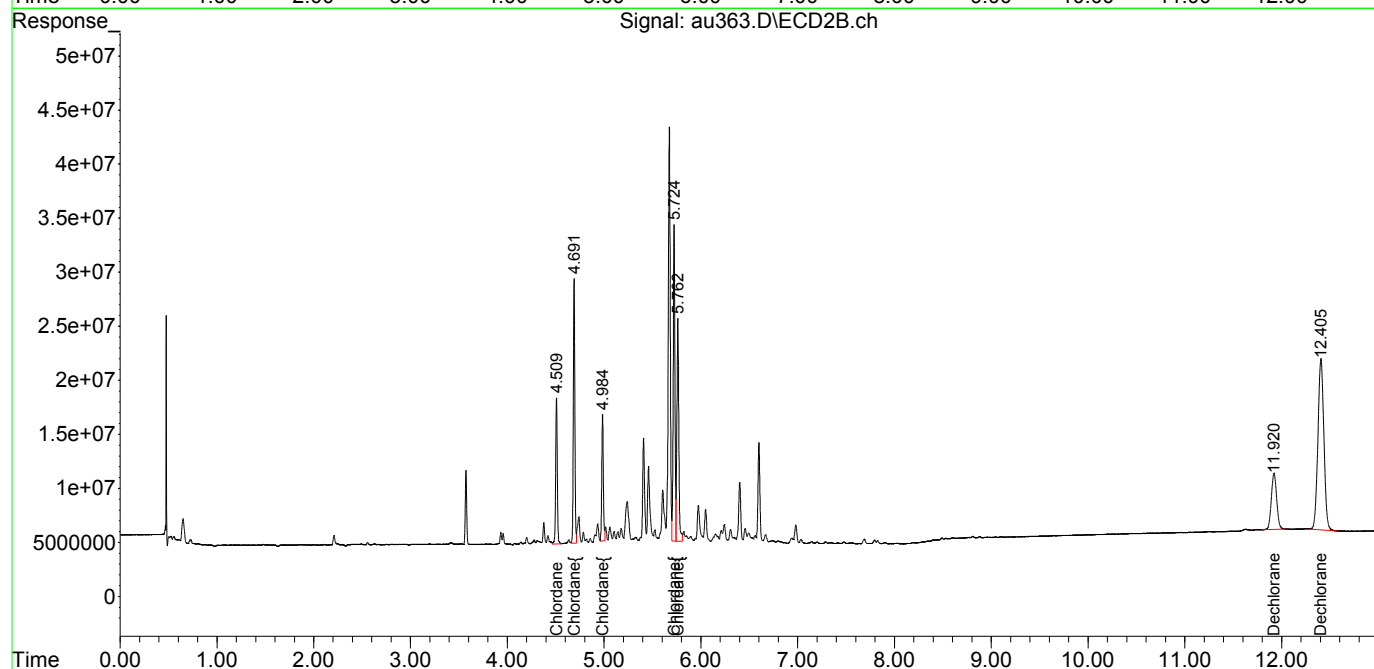
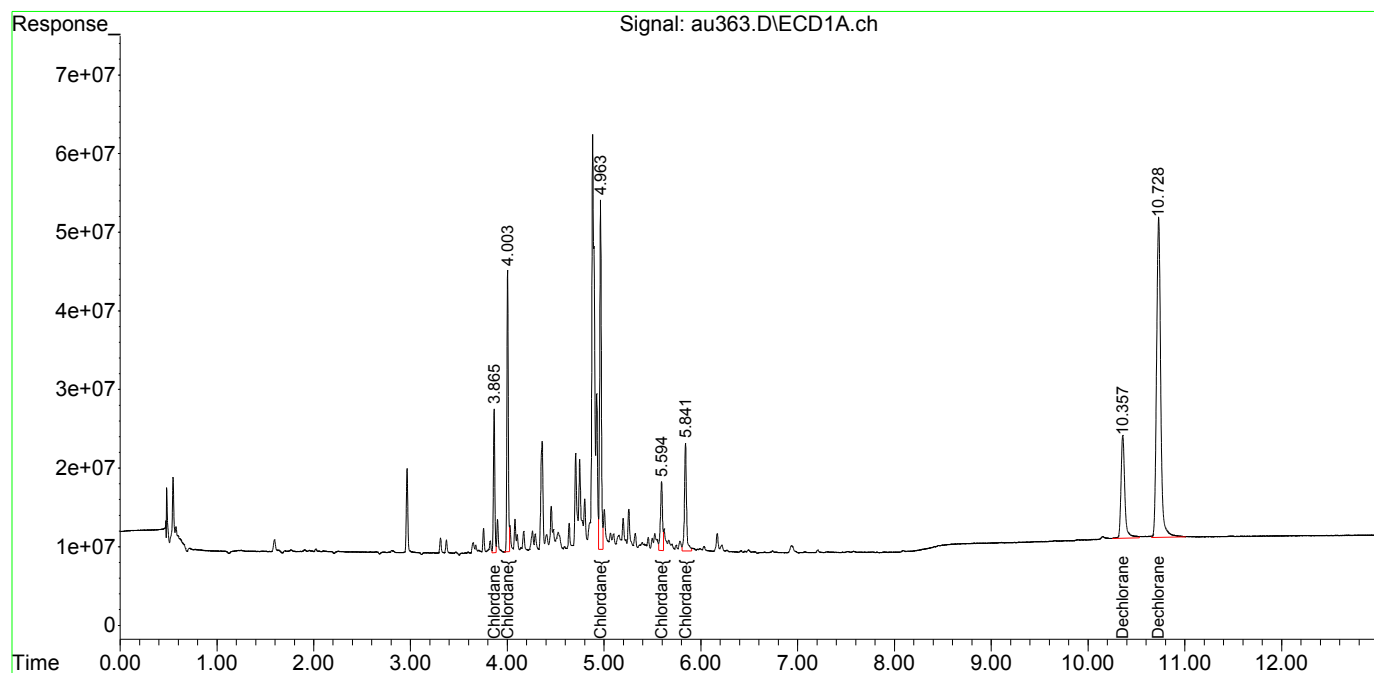
37) L10C Dechloran...	10.358	11.921	357.7E6	200.7E6	71.346	88.645
38) L10C Dechloran...	10.729	12.406	1209.7E6	679.7E6	68.695	88.119 #
Sum Dechlorane			1567.4E6	880.4E6	140.041	176.764
Average Dechlorane					70.020	88.382

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au363.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 4:52 pm  
Operator : m.pedro  
Sample : chlor mh  
Misc : initial cal  
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:30:20 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:30:08 2018  
Response via : Initial Calibration  
Integrator: ChemStation

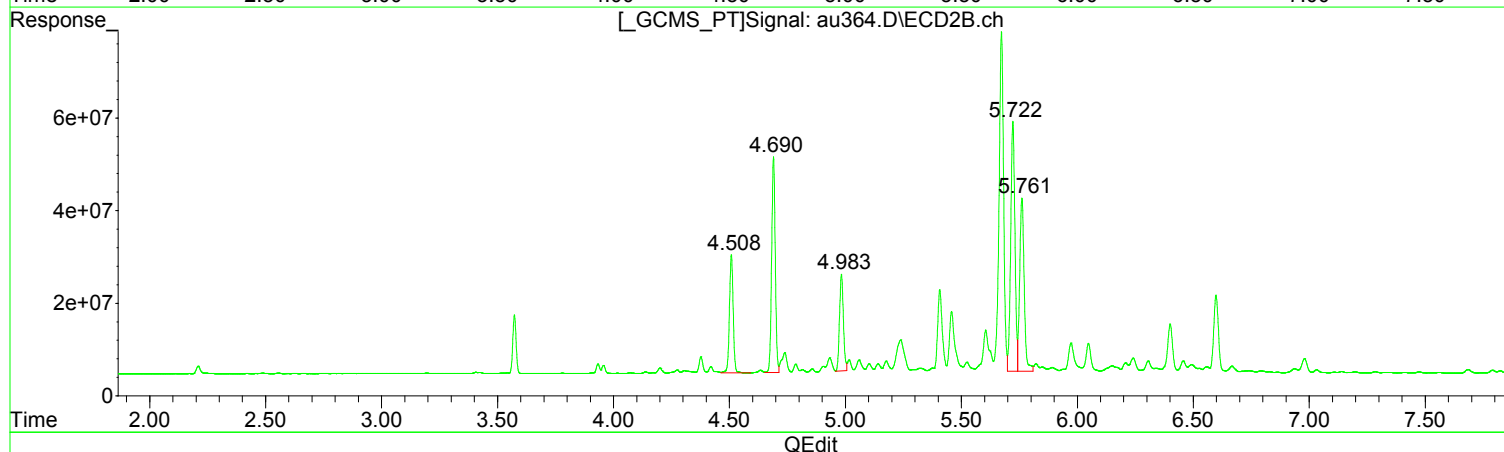
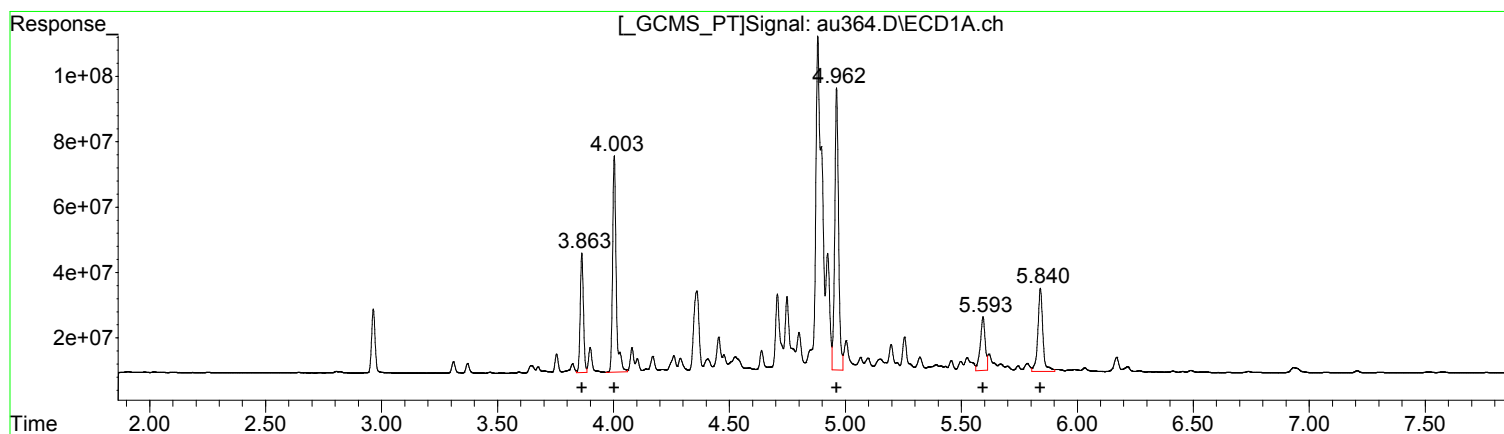
Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au364.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 5:10 pm  
Operator : m.pedro  
Sample : chlor h  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:31:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:31:08 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(32) Chlordane (L9C)

R.T.	Response	Conc
3.86	349047652	402.42
4.00	712838547	407.31
4.96	980625571	409.71
5.59	245988171	412.07
5.84	382697386	409.85

Manual Integration:  
After  
Poor integration.  
01/09/18

(32) Chlordane #2 (L9C)

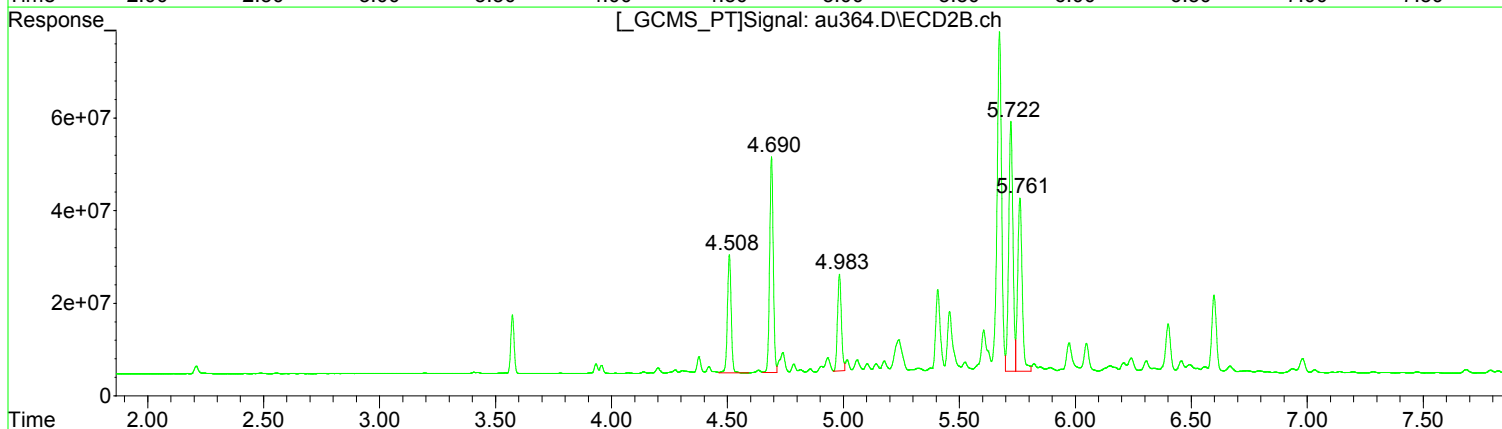
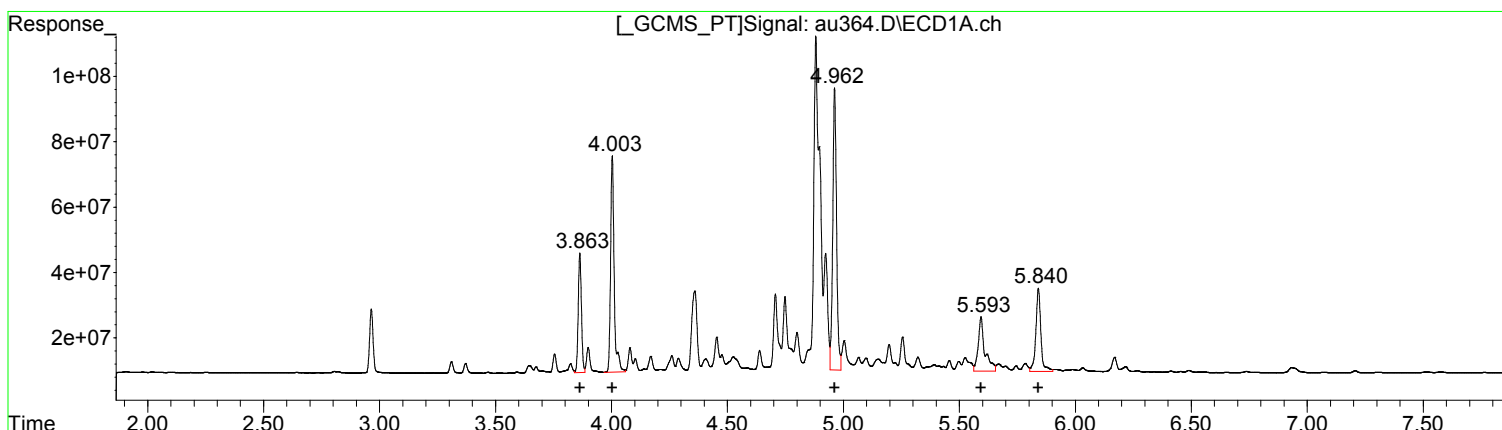
R.T.	Response	Conc
4.51	287930595	429.77
4.69	504389291	437.11
4.98	242998412	406.40
5.72	678962519	426.09
5.76	506043695	414.71



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au364.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 5:10 pm  
 Operator : m.pedro  
 Sample : chlor h  
 Misc : initial cal  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:31:15 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:31:08 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(32) Chlordane (L9C)

R.T.	Response	Conc
3.86	349047652	402.42
4.00	712838547	407.31
4.96	980625571	409.71
5.59	329702702	552.31
5.84	382697386	409.85

Manual Integration:  
 Before  
 01/09/18

(32) Chlordane #2 (L9C)

R.T.	Response	Conc
4.51	287930595	429.77
4.69	504389291	437.11
4.98	242998412	406.40
5.72	678962519	426.09
5.76	506043695	414.71

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au364.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 5:10 pm  
 Operator : m.pedro  
 Sample : chlor h  
 Misc : initial cal  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:31:15 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:31:08 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

Target Compounds

Sum Toxaphene			0	0	N.D.	N.D.
Average Toxaphene					0.000	0.000

32) L9C Chlordane	3.864	4.508	349.0E6	287.9E6	402.416	429.768
33) L9C Chlordane{2}	4.003	4.690	712.8E6	504.4E6	407.314	437.112
34) L9C Chlordane{3}	4.962	4.983	980.6E6	243.0E6	409.715	406.397
35) L9C Chlordane{4}	5.593	5.722	246.0E6	679.0E6	412.072m	426.094
36) L9C Chlordane{5}	5.841	5.761	382.7E6	506.0E6	409.847	414.709
Sum Chlordane			2671.2E6	2220.3E6	2041.364	2114.080
Average Chlordane					408.273	422.816

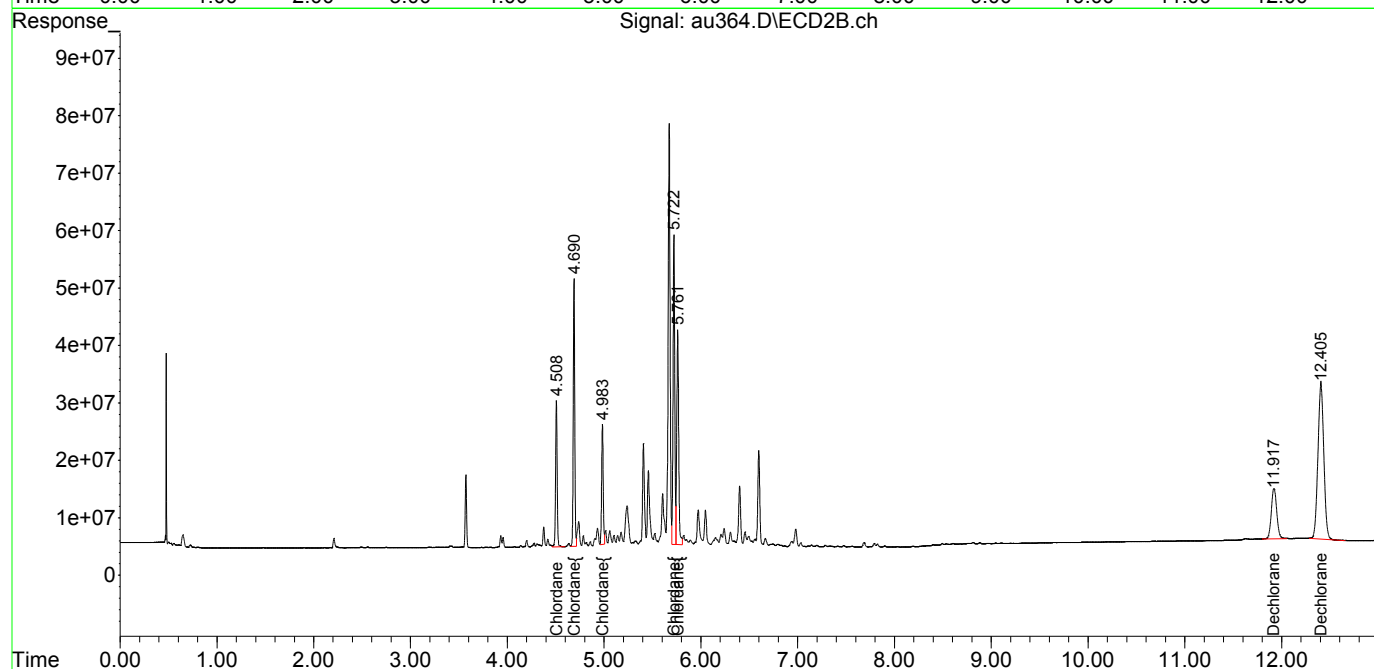
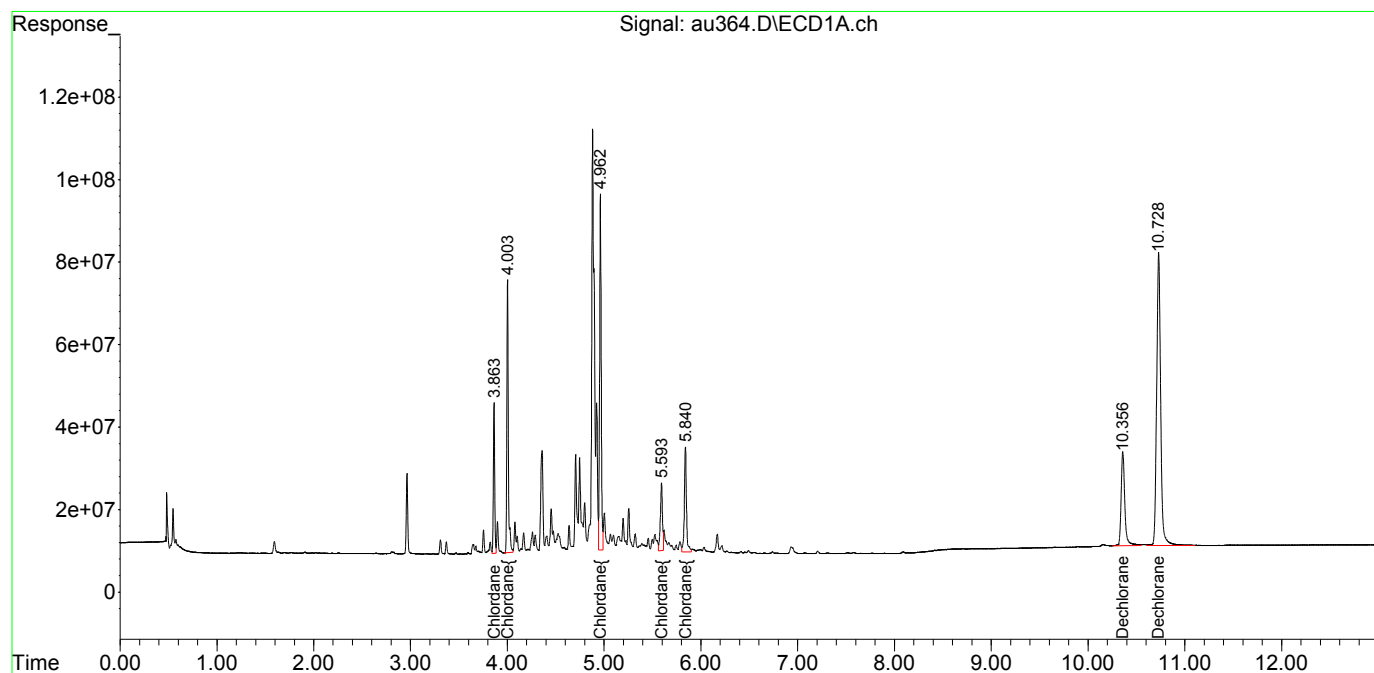
37) L10C Dechloran...	10.358	11.918	604.7E6	341.8E6	141.531	162.443
38) L10C Dechloran...	10.728	12.405	2046.8E6	1146.6E6	136.823	160.130
Sum Dechlorane			2651.5E6	1488.4E6	278.354	322.573
Average Dechlorane					139.177	161.287

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au364.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 5:10 pm  
Operator : m.pedro  
Sample : chlor h  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:31:15 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:31:08 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\7890m\DATA\010818\  
 Data File : au365.D  
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
 Acq On : 8 Jan 2018 5:28 pm  
 Operator : m.pedro  
 Sample : chlor icv  
 Misc : initial cal  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
 Integration File signal 2: EVENTS2.E  
 Quant Time: Jan 09 07:34:39 2018  
 Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
 Quant Title : 608/8081B PESTICIDES  
 QLast Update : Tue Jan 09 07:33:43 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
32 L9C Chlordane	100.000	116.198	-16.2#	115	0.00
33 L9C Chlordane{2}	100.000	85.794	14.2	84	0.00
34 L9C Chlordane{3}	100.000	101.517	-1.5	102	0.00
35 L9C Chlordane{4}	100.000	92.515	7.5	88	0.00
36 L9C Chlordane{5}	100.000	102.437	-2.4	105	0.00
37 L10CDechlorane{1}	50.000	44.412	11.2	85	0.00
38 L10CDechlorane{2}	50.000	45.347	9.3	88	0.00

Signal #2

32 L9C Chlordane	100.000	110.801	-10.8	111	0.00
33 L9C Chlordane{2}	100.000	84.862	15.1#	85	0.00
34 L9C Chlordane{3}	100.000	103.027	-3.0	102	0.00
35 L9C Chlordane{4}	100.000	101.242	-1.2	101	0.00
36 L9C Chlordane{5}	100.000	95.957	4.0	96	0.00
37 L10CDechlorane{1}	50.000	44.359	11.3	85	0.00
38 L10CDechlorane{2}	50.000	45.970	8.1	88	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-2.93#
2 TC HEXACHLORO BENZENE	10.000	0.000	100.0#	0	-3.36#
3 tc alpha-BHC	10.000	0.000	100.0#	0	-3.44#
4 tcm gamma-BHC (L	10.000	0.000	100.0#	0	-3.73#
5 tcm Heptachlor	10.000	0.000	100.0#	0	-4.00#
6 tcm Aldrin	10.000	0.000	100.0#	0	-4.25#
7 tc beta-BHC	10.000	0.000	100.0#	0	-3.91#
8 TC delta-BHC	10.000	0.000	100.0#	0	-4.13#
9 tc Heptachlor E	10.000	0.000	100.0#	0	-4.69#
10 tc alpha-Endosu	10.000	0.000	100.0#	0	-5.02#
11 tc gamma-Chlord	10.000	0.000	100.0#	0	-4.88#
12 tc alpha-Chlord	10.000	0.000	100.0#	0	-4.96#
13 tc 4,4'-DDE	10.000	0.000	100.0#	0	-5.13#
14 tcm Dieldrin	10.000	0.000	100.0#	0	-5.27#
15 tcm Endrin	10.000	0.000	100.0#	0	-5.56#
16 tc KEPONE	1500.000	0.000	100.0#	0	-5.67#
17 tc beta-Endosul	10.000	0.000	100.0#	0	-5.81#
18 tc 4,4'-DDD	10.000	0.000	100.0#	0	-5.66#
19 tcm 4,4'-DDT	10.000	0.000	100.0#	0	-5.92#
20 tc Endrin Aldeh	10.000	0.000	100.0#	0	-6.03#
21 tc Endosulfan S	10.000	0.000	100.0#	0	-6.23#
22 tc Methoxychlor	10.000	0.000	100.0#	0	-6.61#
23 tc FAMPHUR	300.000	0.000	100.0#	0	-6.11#
24 tc Endrin Keton	10.000	0.000	100.0#	0	-6.87#

Data Path : I:\ACQUDATA\7890m\DATA\010818\  
Data File : au365.D  
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch  
Acq On : 8 Jan 2018 5:28 pm  
Operator : m.pedro  
Sample : chlor icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: EVENTS.E  
Integration File signal 2: EVENTS2.E  
Quant Time: Jan 09 07:34:39 2018  
Quant Method : I:\ACQUDATA\7890m\Methods\8081010818.M  
Quant Title : 608/8081B PESTICIDES  
QLast Update : Tue Jan 09 07:33:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal #1 Phase : STx-CLP Signal #2 Phase: STx-CLPII  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25 tc Mirex	10.000	0.000	100.0#	0	-7.01#
26 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.08#
27 L8C Toxaphene	250.000	0.000	100.0#	0	-5.39#
28 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-5.58#
29 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-6.18#
30 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-6.77#
31 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.02#

Signal #2

1 S SURR1,Tetrac	10.000	0.000	100.0#	0	-3.58#
2 TC HEXACHLOROBENZENE	10.000	0.000	100.0#	0	-3.98#
3 tc alpha-BHC	10.000	0.000	100.0#	0	-3.92#
4 tcm gamma-BHC (L	10.000	0.000	100.0#	0	-4.18#
5 tcm Heptachlor	10.000	0.000	100.0#	0	-4.69#
6 tcm Aldrin	10.000	0.000	100.0#	0	-4.98#
7 tc beta-BHC	10.000	0.000	100.0#	0	-4.40#
8 tc delta-BHC	10.000	0.000	100.0#	0	-4.62#
9 tc Heptachlor E	10.000	0.000	100.0#	0	-5.38#
10 tc alpha-Endosu	10.000	0.000	100.0#	0	-5.77#
11 tc gamma-Chlord	10.000	0.000	100.0#	0	-5.68#
12 tc alpha-Chlord	10.000	0.000	100.0#	0	-5.72#
13 tc 4,4'-DDE	10.000	0.000	100.0#	0	-5.85#
14 tcm Dieldrin	10.000	0.000	100.0#	0	-6.02#
15 tcm Endrin	10.000	0.000	100.0#	0	-6.26#
16 tc KEPONE	1500.000	0.000	100.0#	0	-6.56#
17 tc beta-Endosul	10.000	0.000	100.0#	0	-6.52#
18 tc 4,4'-DDD	10.000	0.000	100.0#	0	-6.37#
19 tcm 4,4'-DDT	10.000	0.000	100.0#	0	-6.69#
20 tc Endrin Aldeh	10.000	0.000	100.0#	0	-6.64#
21 tc Endosulfan S	10.000	0.000	100.0#	0	-6.94#
22 tc Methoxychlor	10.000	0.000	100.0#	0	-7.16#
23 tc FAMPHUR	300.000	0.000	100.0#	0	-6.46#
24 tc Endrin Keton	10.000	0.000	100.0#	0	-7.40#
25 tc Mirex	10.000	0.000	100.0#	0	-7.98#
26 S SURR2,Decachlorobiphenyl	10.000	0.000	100.0#	0	-8.76#
27 L8C Toxaphene	250.000	0.000	100.0#	0	-6.37#
28 L8C Toxaphene{2}	250.000	0.000	100.0#	0	-6.85#
29 L8C Toxaphene{3}	250.000	0.000	100.0#	0	-7.11#
30 L8C Toxaphene{4}	250.000	0.000	100.0#	0	-7.16#
31 L8C Toxaphene{5}	250.000	0.000	100.0#	0	-7.84#

(#) = Out of Range

SPCC's out = 0 CCC's out = 60



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLP

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800008-01	pest 2 ppb	I:\ACQU\DATA\7890m\DATA\010818\au339.D	01/08/2018 09:32
02	RC1800008-02	pest 5 ppb	I:\ACQU\DATA\7890m\DATA\010818\au340.D	01/08/2018 09:50
03	RC1800008-03	pest 10 ppb	I:\ACQU\DATA\7890m\DATA\010818\au341.D	01/08/2018 10:08
04	RC1800008-04	pest 50 ppb	I:\ACQU\DATA\7890m\DATA\010818\au342.D	01/08/2018 10:26
05	RC1800008-05	pest 100 ppb	I:\ACQU\DATA\7890m\DATA\010818\au343.D	01/08/2018 10:44
06	RC1800008-06	pest 200 ppb	I:\ACQU\DATA\7890m\DATA\010818\au344.D	01/08/2018 11:02
08	RC1800008-08	k/f low	I:\ACQU\DATA\7890m\DATA\010818\au346.D	01/08/2018 11:45
09	RC1800008-09	k/f medlow	I:\ACQU\DATA\7890m\DATA\010818\au347.D	01/08/2018 12:03
10	RC1800008-10	k/f med	I:\ACQU\DATA\7890m\DATA\010818\au348.D	01/08/2018 12:21
11	RC1800008-11	k/f medhigh	I:\ACQU\DATA\7890m\DATA\010818\au349.D	01/08/2018 12:39
12	RC1800008-12	k/f high	I:\ACQU\DATA\7890m\DATA\010818\au350.D	01/08/2018 12:57
15	RC1800008-15	tox ll	I:\ACQU\DATA\7890m\DATA\010818\au353.D	01/08/2018 13:51
16	RC1800008-16	tox l	I:\ACQU\DATA\7890m\DATA\010818\au354.D	01/08/2018 14:09
17	RC1800008-17	tox ml	I:\ACQU\DATA\7890m\DATA\010818\au355.D	01/08/2018 14:28
18	RC1800008-18	tox m	I:\ACQU\DATA\7890m\DATA\010818\au356.D	01/08/2018 14:46
19	RC1800008-19	tox mh	I:\ACQU\DATA\7890m\DATA\010818\au357.D	01/08/2018 15:04
20	RC1800008-20	tox h	I:\ACQU\DATA\7890m\DATA\010818\au358.D	01/08/2018 15:22
22	RC1800008-22	chlor l	I:\ACQU\DATA\7890m\DATA\010818\au360.D	01/08/2018 15:58
23	RC1800008-23	chlor ml	I:\ACQU\DATA\7890m\DATA\010818\au361.D	01/08/2018 16:16
24	RC1800008-24	chlor m	I:\ACQU\DATA\7890m\DATA\010818\au362.D	01/08/2018 16:34
25	RC1800008-25	chlor mh	I:\ACQU\DATA\7890m\DATA\010818\au363.D	01/08/2018 16:52
26	RC1800008-26	chlor h	I:\ACQU\DATA\7890m\DATA\010818\au364.D	01/08/2018 17:10

**Analyte**

**4,4'-DDD**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.368E7	02	5.000	1.942E7	03	10.000	1.931E7	04	50.000	1.717E7
05	100.000	1.557E7	06	200.000	1.656E7						

**4,4'-DDE**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.219E7	02	5.000	2.198E7	03	10.000	2.279E7	04	50.000	2.028E7
05	100.000	1.856E7	06	200.000	1.957E7						

**4,4'-DDT**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.926E7	02	5.000	1.84E7	03	10.000	1.969E7	04	50.000	1.745E7
05	100.000	1.603E7	06	200.000	1.733E7						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLP

**Analyte**

**Aldrin**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.757E7	02	5.000	2.581E7	03	10.000	2.683E7	04	50.000	2.443E7
05	100.000	2.241E7	06	200.000	2.34E7						

**Dieldrin**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.455E7	02	5.000	2.451E7	03	10.000	2.459E7	04	50.000	2.166E7
05	100.000	1.987E7	06	200.000	2.067E7						

**Endosulfan I**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.372E7	02	5.000	2.322E7	03	10.000	2.297E7	04	50.000	1.977E7
05	100.000	1.779E7	06	200.000	1.8E7						

**Endosulfan II**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.212E7	02	5.000	2.132E7	03	10.000	1.996E7	04	50.000	1.861E7
05	100.000	1.688E7	06	200.000	1.742E7						

**Endosulfan Sulfate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.058E7	02	5.000	2.005E7	03	10.000	1.861E7	04	50.000	1.721E7
05	100.000	1.549E7	06	200.000	1.663E7						

**Endrin**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.182E7	02	5.000	2.081E7	03	10.000	2.154E7	04	50.000	1.903E7
05	100.000	1.725E7	06	200.000	1.792E7						

**Endrin Aldehyde**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.923E7	02	5.000	1.908E7	03	10.000	1.675E7	04	50.000	1.625E7
05	100.000	1.446E7	06	200.000	1.489E7						

**Endrin Ketone**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.187E7	02	5.000	2.154E7	03	10.000	2.079E7	04	50.000	1.877E7
05	100.000	1.679E7	06	200.000	1.725E7						

**Heptachlor**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	3.023E7	02	5.000	2.848E7	03	10.000	2.692E7	04	50.000	2.509E7
05	100.000	2.301E7	06	200.000	2.371E7						

**Heptachlor Epoxide**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.608E7	02	5.000	2.395E7	03	10.000	2.349E7	04	50.000	2.052E7
05	100.000	1.846E7	06	200.000	1.871E7						



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLP

**Analyte**

**Methoxychlor**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	9.654E6	02	5.000	9.141E6	03	10.000	1.032E7	04	50.000	9.081E6
05	100.000	7.417E6	06	200.000	8.046E6						

**alpha-BHC**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	3.375E7	02	5.000	3.206E7	03	10.000	3.225E7	04	50.000	3.079E7
05	100.000	2.904E7	06	200.000	3.15E7						

**alpha-Chlordane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.413E7	02	5.000	2.296E7	03	10.000	2.167E7	04	50.000	2.046E7
05	100.000	1.885E7	06	200.000	1.97E7						

**beta-BHC**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.57E7	02	5.000	1.442E7	03	10.000	1.45E7	04	50.000	1.184E7
05	100.000	1.054E7	06	200.000	1.08E7						

**delta-BHC**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.887E7	02	5.000	2.652E7	03	10.000	2.725E7	04	50.000	2.558E7
05	100.000	2.404E7	06	200.000	2.595E7						

**gamma-BHC (Lindane)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	3.015E7	02	5.000	2.863E7	03	10.000	2.877E7	04	50.000	2.595E7
05	100.000	2.421E7	06	200.000	2.599E7						

**gamma-Chlordane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.501E7	02	5.000	2.369E7	03	10.000	2.336E7	04	50.000	2.122E7
05	100.000	1.944E7	06	200.000	2.041E7						

**Decachlorobiphenyl**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.619E7	02	5.000	1.686E7	03	10.000	1.605E7	04	50.000	1.427E7
05	100.000	1.232E7	06	200.000	1.253E7						

**Tetrachloro-m-xylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.766E7	02	5.000	2.605E7	03	10.000	2.408E7	04	50.000	2.174E7
05	100.000	1.975E7	06	200.000	2.054E7						

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLP

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4,4'-DDD	TRG	Average RF	% RSD	15.6	20	1.862E7	
4,4'-DDE	TRG	Average RF	% RSD	8.0	20	2.09E7	
4,4'-DDT	TRG	Average RF	% RSD	7.5	20	1.803E7	
Aldrin	TRG	Average RF	% RSD	8.0	20	2.507E7	
Dieldrin	TRG	Average RF	% RSD	9.6	20	2.264E7	
Endosulfan I	TRG	Average RF	% RSD	13.0	20	2.091E7	
Endosulfan II	TRG	Average RF	% RSD	10.9	20	1.939E7	
Endosulfan Sulfate	TRG	Average RF	% RSD	11.1	20	1.81E7	
Endrin	TRG	Average RF	% RSD	9.8	20	1.973E7	
Endrin Aldehyde	TRG	Average RF	% RSD	12.1	20	1.678E7	
Endrin Ketone	TRG	Average RF	% RSD	11.3	20	1.95E7	
Heptachlor	TRG	Average RF	% RSD	10.7	20	2.624E7	
Heptachlor Epoxide	TRG	Average RF	% RSD	14.2	20	2.187E7	
Methoxychlor	TRG	Average RF	% RSD	11.8	20	8.943E6	
alpha-BHC	TRG	Average RF	% RSD	5.0	20	3.157E7	
alpha-Chlordane	TRG	Average RF	% RSD	9.4	20	2.13E7	
beta-BHC	TRG	Average RF	% RSD	16.8	20	1.297E7	
delta-BHC	TRG	Average RF	% RSD	6.2	20	2.637E7	
gamma-BHC (Lindane)	TRG	Average RF	% RSD	8.2	20	2.728E7	
gamma-Chlordane	TRG	Average RF	% RSD	9.7	20	2.219E7	
Decachlorobiphenyl	SURR	Average RF	% RSD	13.3	20	1.47E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	13.5	20	2.331E7	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLPII

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800008-01	pest 2 ppb	I:\ACQU\DATA\7890m\DATA\010818\au339.D	01/08/2018 09:32
02	RC1800008-02	pest 5 ppb	I:\ACQU\DATA\7890m\DATA\010818\au340.D	01/08/2018 09:50
03	RC1800008-03	pest 10 ppb	I:\ACQU\DATA\7890m\DATA\010818\au341.D	01/08/2018 10:08
04	RC1800008-04	pest 50 ppb	I:\ACQU\DATA\7890m\DATA\010818\au342.D	01/08/2018 10:26
05	RC1800008-05	pest 100 ppb	I:\ACQU\DATA\7890m\DATA\010818\au343.D	01/08/2018 10:44
06	RC1800008-06	pest 200 ppb	I:\ACQU\DATA\7890m\DATA\010818\au344.D	01/08/2018 11:02
08	RC1800008-08	k/f low	I:\ACQU\DATA\7890m\DATA\010818\au346.D	01/08/2018 11:45
09	RC1800008-09	k/f medlow	I:\ACQU\DATA\7890m\DATA\010818\au347.D	01/08/2018 12:03
10	RC1800008-10	k/f med	I:\ACQU\DATA\7890m\DATA\010818\au348.D	01/08/2018 12:21
11	RC1800008-11	k/f medhigh	I:\ACQU\DATA\7890m\DATA\010818\au349.D	01/08/2018 12:39
12	RC1800008-12	k/f high	I:\ACQU\DATA\7890m\DATA\010818\au350.D	01/08/2018 12:57
15	RC1800008-15	tox ll	I:\ACQU\DATA\7890m\DATA\010818\au353.D	01/08/2018 13:51
16	RC1800008-16	tox l	I:\ACQU\DATA\7890m\DATA\010818\au354.D	01/08/2018 14:09
17	RC1800008-17	tox ml	I:\ACQU\DATA\7890m\DATA\010818\au355.D	01/08/2018 14:28
18	RC1800008-18	tox m	I:\ACQU\DATA\7890m\DATA\010818\au356.D	01/08/2018 14:46
19	RC1800008-19	tox mh	I:\ACQU\DATA\7890m\DATA\010818\au357.D	01/08/2018 15:04
20	RC1800008-20	tox h	I:\ACQU\DATA\7890m\DATA\010818\au358.D	01/08/2018 15:22
22	RC1800008-22	chlor l	I:\ACQU\DATA\7890m\DATA\010818\au360.D	01/08/2018 15:58
23	RC1800008-23	chlor ml	I:\ACQU\DATA\7890m\DATA\010818\au361.D	01/08/2018 16:16
24	RC1800008-24	chlor m	I:\ACQU\DATA\7890m\DATA\010818\au362.D	01/08/2018 16:34
25	RC1800008-25	chlor mh	I:\ACQU\DATA\7890m\DATA\010818\au363.D	01/08/2018 16:52
26	RC1800008-26	chlor h	I:\ACQU\DATA\7890m\DATA\010818\au364.D	01/08/2018 17:10

**Analyte**

**4,4'-DDD**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.321E7	02	5.000	1.347E7	03	10.000	1.348E7	04	50.000	1.328E7
05	100.000	1.214E7	06	200.000	1.266E7						

**4,4'-DDE**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.616E7	02	5.000	1.518E7	03	10.000	1.544E7	04	50.000	1.512E7
05	100.000	1.396E7	06	200.000	1.462E7						

**4,4'-DDT**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.436E7	02	5.000	1.387E7	03	10.000	1.408E7	04	50.000	1.4E7
05	100.000	1.268E7	06	200.000	1.309E7						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLPII

**Analyte**

**Aldrin**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.844E7	02	5.000	1.787E7	03	10.000	1.783E7	04	50.000	1.756E7
05	100.000	1.63E7	06	200.000	1.686E7						

**Dieldrin**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.749E7	02	5.000	1.668E7	03	10.000	1.662E7	04	50.000	1.623E7
05	100.000	1.487E7	06	200.000	1.525E7						

**Endosulfan I**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.657E7	02	5.000	1.577E7	03	10.000	1.551E7	04	50.000	1.442E7
05	100.000	1.311E7	06	200.000	1.324E7						

**Endosulfan II**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.562E7	02	5.000	1.555E7	03	10.000	1.499E7	04	50.000	1.406E7
05	100.000	1.279E7	06	200.000	1.291E7						

**Endosulfan Sulfate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.492E7	02	5.000	1.416E7	03	10.000	1.384E7	04	50.000	1.266E7
05	100.000	1.135E7	06	200.000	1.149E7						

**Endrin**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.586E7	02	5.000	1.527E7	03	10.000	1.518E7	04	50.000	1.467E7
05	100.000	1.334E7	06	200.000	1.371E7						

**Endrin Aldehyde**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.29E7	02	5.000	1.233E7	03	10.000	1.216E7	04	50.000	1.128E7
05	100.000	1.002E7	06	200.000	1.009E7						

**Endrin Ketone**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.647E7	02	5.000	1.667E7	03	10.000	1.618E7	04	50.000	1.501E7
05	100.000	1.347E7	06	200.000	1.356E7						

**Heptachlor**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.083E7	02	5.000	2.009E7	03	10.000	1.977E7	04	50.000	1.906E7
05	100.000	1.747E7	06	200.000	1.782E7						

**Heptachlor Epoxide**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.842E7	02	5.000	1.759E7	03	10.000	1.737E7	04	50.000	1.615E7
05	100.000	1.467E7	06	200.000	1.483E7						

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLPII

**Analyte**

**Methoxychlor**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	8.147E6	02	5.000	8.28E6	03	10.000	8.223E6	04	50.000	7.368E6
05	100.000	6.297E6	06	200.000	6.21E6						

**alpha-BHC**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.168E7	02	5.000	2.117E7	03	10.000	2.134E7	04	50.000	2.2E7
05	100.000	2.081E7	06	200.000	2.226E7						

**alpha-Chlordane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.805E7	02	5.000	1.7E7	03	10.000	1.667E7	04	50.000	1.572E7
05	100.000	1.439E7	06	200.000	1.496E7						

**beta-BHC**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.072E7	02	5.000	9.858E6	03	10.000	9.74E6	04	50.000	8.77E6
05	100.000	7.935E6	06	200.000	8.175E6						

**delta-BHC**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.032E7	02	5.000	1.916E7	03	10.000	1.937E7	04	50.000	1.98E7
05	100.000	1.867E7	06	200.000	1.992E7						

**gamma-BHC (Lindane)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.049E7	02	5.000	1.964E7	03	10.000	1.958E7	04	50.000	1.959E7
05	100.000	1.839E7	06	200.000	1.952E7						

**gamma-Chlordane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.789E7	02	5.000	1.703E7	03	10.000	1.694E7	04	50.000	1.623E7
05	100.000	1.499E7	06	200.000	1.565E7						

**Decachlorobiphenyl**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.35E7	02	5.000	1.268E7	03	10.000	1.175E7	04	50.000	1.014E7
05	100.000	8.992E6	06	200.000	9.145E6						

**Tetrachloro-m-xylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.746E7	02	5.000	1.636E7	03	10.000	1.622E7	04	50.000	1.474E7
05	100.000	1.36E7	06	200.000	1.416E7						

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLPII

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
4,4'-DDD	TRG	Average RF	% RSD	4.1	20	1.304E7	
4,4'-DDE	TRG	Average RF	% RSD	4.9	20	1.508E7	
4,4'-DDT	TRG	Average RF	% RSD	4.8	20	1.368E7	
Aldrin	TRG	Average RF	% RSD	4.4	20	1.748E7	
Dieldrin	TRG	Average RF	% RSD	6.0	20	1.619E7	
Endosulfan I	TRG	Average RF	% RSD	9.6	20	1.477E7	
Endosulfan II	TRG	Average RF	% RSD	8.9	20	1.432E7	
Endosulfan Sulfate	TRG	Average RF	% RSD	11.2	20	1.307E7	
Endrin	TRG	Average RF	% RSD	6.6	20	1.467E7	
Endrin Aldehyde	TRG	Average RF	% RSD	10.6	20	1.147E7	
Endrin Ketone	TRG	Average RF	% RSD	9.5	20	1.523E7	
Heptachlor	TRG	Average RF	% RSD	6.9	20	1.917E7	
Heptachlor Epoxide	TRG	Average RF	% RSD	9.3	20	1.651E7	
Methoxychlor	TRG	Average RF	% RSD	13.0	20	7.421E6	
alpha-BHC	TRG	Average RF	% RSD	2.5	20	2.154E7	
alpha-Chlordane	TRG	Average RF	% RSD	8.4	20	1.613E7	
beta-BHC	TRG	Average RF	% RSD	11.8	20	9.2E6	
delta-BHC	TRG	Average RF	% RSD	3.0	20	1.954E7	
gamma-BHC (Lindane)	TRG	Average RF	% RSD	3.4	20	1.953E7	
gamma-Chlordane	TRG	Average RF	% RSD	6.3	20	1.645E7	
Decachlorobiphenyl	SURR	Average RF	% RSD	17.1	20	1.104E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	9.6	20	1.542E7	

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Verification Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLP

#	Lab Code	Sample Name	File Location	Acquisition Date
07	RC1800008-07	pest icv	I:\ACQUDATA\7890m\DATA\010818\au345.D	01/08/2018 11:20
13	RC1800008-13	k/f icv	I:\ACQUDATA\7890m\DATA\010818\au351.D	01/08/2018 13:15
14	RC1800008-14	mirex icv	I:\ACQUDATA\7890m\DATA\010818\au352.D	01/08/2018 13:33
21	RC1800008-21	tox icv	I:\ACQUDATA\7890m\DATA\010818\au359.D	01/08/2018 15:40
27	RC1800008-27	chlor icv	I:\ACQUDATA\7890m\DATA\010818\au365.D	01/08/2018 17:28

Analyte Name	Expected	Result	Average RF	SSV		Criteria	Curve Fit
				RF	% D		
4,4'-DDD	10.0	9.60	1.862E7	1.787E7	-4.021	±30	Average RF
4,4'-DDE	10.0	8.81	2.09E7	1.841E7	-11.915	±30	Average RF
4,4'-DDT	10.0	9.33	1.803E7	1.681E7	-6.748	±30	Average RF
Aldrin	10.0	9.05	2.507E7	2.27E7	-9.470	±30	Average RF
Dieldrin	10.0	9.09	2.264E7	2.057E7	-9.145	±30	Average RF
Endosulfan I	10.0	9.59	2.091E7	2.005E7	-4.122	±30	Average RF
Endosulfan II	10.0	9.68	1.939E7	1.877E7	-3.163	±30	Average RF
Endosulfan Sulfate	10.0	10.0	1.81E7	1.811E7	0.062	±30	Average RF
Endrin	10.0	9.24	1.973E7	1.823E7	-7.600	±30	Average RF
Endrin Aldehyde	10.0	10.4	1.678E7	1.751E7	4.37	±30	Average RF
Endrin Ketone	10.0	9.83	1.95E7	1.918E7	-1.661	±30	Average RF
Heptachlor	10.0	9.39	2.624E7	2.464E7	-6.113	±30	Average RF
Heptachlor Epoxide	10.0	9.19	2.187E7	2.009E7	-8.134	±30	Average RF
Methoxychlor	10.0	10.1	8.943E6	9.009E6	0.740	±30	Average RF
Toxaphene	500	407			-18.675	±30	NA
alpha-BHC	10.0	9.10	3.157E7	2.872E7	-9.014	±30	Average RF
alpha-Chlordane	10.0	9.27	2.13E7	1.975E7	-7.269	±30	Average RF
beta-BHC	10.0	9.18	1.297E7	1.191E7	-8.169	±30	Average RF
delta-BHC	10.0	8.86	2.637E7	2.335E7	-11.449	±30	Average RF
gamma-BHC (Lindane)	10.0	9.17	2.728E7	2.501E7	-8.339	±30	Average RF
gamma-Chlordane	10.0	9.10	2.219E7	2.02E7	-8.968	±30	Average RF

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/8/2018

**Initial Calibration Verification Summary**  
**Organochlorine Pesticides by Gas Chromatography**

**Calibration ID:** RC1800008  
**Instrument ID:** R-GC-62

**Signal ID:** STx-CLPII

#	Lab Code	Sample Name	File Location	Acquisition Date
07	RC1800008-07	pest icv	I:\ACQUDATA\7890m\DATA\010818\au345.D	01/08/2018 11:20
13	RC1800008-13	k/f icv	I:\ACQUDATA\7890m\DATA\010818\au351.D	01/08/2018 13:15
14	RC1800008-14	mirex icv	I:\ACQUDATA\7890m\DATA\010818\au352.D	01/08/2018 13:33
21	RC1800008-21	tox icv	I:\ACQUDATA\7890m\DATA\010818\au359.D	01/08/2018 15:40
27	RC1800008-27	chlor icv	I:\ACQUDATA\7890m\DATA\010818\au365.D	01/08/2018 17:28

Analyte Name	Expected	Result	Average RF	SSV		Criteria	Curve Fit
				RF	% D		
4,4'-DDD	10.0	9.30	1.304E7	1.213E7	-7.012	±30	Average RF
4,4'-DDE	10.0	9.15	1.508E7	1.379E7	-8.547	±30	Average RF
4,4'-DDT	10.0	9.65	1.368E7	1.32E7	-3.519	±30	Average RF
Aldrin	10.0	9.12	1.748E7	1.593E7	-8.848	±30	Average RF
Dieldrin	10.0	9.15	1.619E7	1.482E7	-8.474	±30	Average RF
Endosulfan I	10.0	9.50	1.477E7	1.403E7	-5.027	±30	Average RF
Endosulfan II	10.0	9.79	1.432E7	1.402E7	-2.053	±30	Average RF
Endosulfan Sulfate	10.0	9.67	1.307E7	1.263E7	-3.324	±30	Average RF
Endrin	10.0	9.24	1.467E7	1.356E7	-7.620	±30	Average RF
Endrin Aldehyde	10.0	9.81	1.147E7	1.125E7	-1.887	±30	Average RF
Endrin Ketone	10.0	9.74	1.523E7	1.483E7	-2.604	±30	Average RF
Heptachlor	10.0	9.31	1.917E7	1.785E7	-6.891	±30	Average RF
Heptachlor Epoxide	10.0	9.15	1.651E7	1.51E7	-8.527	±30	Average RF
Methoxychlor	10.0	9.85	7.421E6	7.306E6	-1.544	±30	Average RF
Toxaphene	500	427			-14.565	±30	NA
alpha-BHC	10.0	8.79	2.154E7	1.893E7	-12.126	±30	Average RF
alpha-Chlordane	10.0	9.15	1.613E7	1.475E7	-8.544	±30	Average RF
beta-BHC	10.0	8.91	9.2E6	8.195E6	-10.922	±30	Average RF
delta-BHC	10.0	8.95	1.954E7	1.749E7	-10.480	±30	Average RF
gamma-BHC (Lindane)	10.0	8.82	1.953E7	1.723E7	-11.777	±30	Average RF
gamma-Chlordane	10.0	9.02	1.645E7	1.484E7	-9.825	±30	Average RF



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 15:19

**Continuing Calibration Verification (CCV) Summary  
Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**File ID:** I:\ACQUADATA\7890m\DATA\022318\au722.D\  
**Signal ID:** STx-CLPII

**Calibration Date:** 1/8/2018  
**Calibration ID:** RC1800008  
**Analysis Lot:** 581710  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4,4'-DDD	100	111	1.304E7	1.448E7	11.0	NA	±20	Average RF
Aldrin	100	109	1.748E7	1.904E7	9.0	NA	±20	Average RF
Dieldrin	100	107	1.619E7	1.733E7	7.1	NA	±20	Average RF
Endosulfan I	100	102	1.477E7	1.505E7	1.9	NA	±20	Average RF
Endosulfan II	100	102	1.432E7	1.465E7	2.3	NA	±20	Average RF
Endosulfan Sulfate	100	102	1.307E7	1.334E7	2.1	NA	±20	Average RF
Endrin Aldehyde	100	104	1.147E7	1.197E7	4.4	NA	±20	Average RF
Endrin Ketone	100	101	1.523E7	1.532E7	0.6	NA	±20	Average RF
Heptachlor Epoxide	100	103	1.651E7	1.707E7	3.4	NA	±20	Average RF
alpha-Chlordane	100	105	1.613E7	1.693E7	4.9	NA	±20	Average RF
gamma-Chlordane	100	107	1.645E7	1.765E7	7.2	NA	±20	Average RF
Tetrachloro-m-xylene	100	103	1.542E7	1.585E7	2.8	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 15:19

**Continuing Calibration Verification (CCV) Summary  
Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**File ID:** I:\ACQUADATA\7890m\DATA\022318\au722.D\  
**Signal ID:** STx-CLPII

**Calibration Date:** 1/8/2018  
**Calibration ID:** RC1800008  
**Analysis Lot:** 581710  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4,4'-DDE	100	102	2.09E7	2.138E7	2.3	NA	±20	Average RF
4,4'-DDT	100	104	1.803E7	1.878E7	4.2	NA	±20	Average RF
Endrin	100	101	1.973E7	1.985E7	0.6	NA	±20	Average RF
Heptachlor	100	101	2.624E7	2.645E7	0.8	NA	±20	Average RF
Methoxychlor	100	97.8	8.943E6	8.747E6	-2.2	NA	±20	Average RF
alpha-BHC	100	108	3.157E7	3.412E7	8.1	NA	±20	Average RF
beta-BHC	100	91.6	1.297E7	1.188E7	-8.4	NA	±20	Average RF
delta-BHC	100	106	2.637E7	2.794E7	6.0	NA	±20	Average RF
gamma-BHC (Lindane)	100	103	2.728E7	2.81E7	3.0	NA	±20	Average RF
Decachlorobiphenyl	100	82.2	1.47E7	1.209E7	-17.8	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 18:41

**Continuing Calibration Verification (CCV) Summary  
Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**File ID:** I:\ACQUADATA\7890m\DATA\022318\au733.D\  
**Signal ID:** STx-CLPII

**Calibration Date:** 1/8/2018  
**Calibration ID:** RC1800008  
**Analysis Lot:** 581710  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4,4'-DDD	100	116	1.304E7	1.517E7	16.3	NA	±20	Average RF
Dieldrin	100	113	1.619E7	1.826E7	12.8	NA	±20	Average RF
Endosulfan I	100	107	1.477E7	1.585E7	7.3	NA	±20	Average RF
Endosulfan II	100	107	1.432E7	1.534E7	7.2	NA	±20	Average RF
Endrin Aldehyde	100	109	1.147E7	1.244E7	8.5	NA	±20	Average RF
Endrin Ketone	100	105	1.523E7	1.596E7	4.8	NA	±20	Average RF
Heptachlor Epoxide	100	108	1.651E7	1.788E7	8.4	NA	±20	Average RF
Methoxychlor	100	101	7.421E6	7.474E6	0.7	NA	±20	Average RF
beta-BHC	100	104	9.2E6	9.559E6	3.9	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 18:41

**Continuing Calibration Verification (CCV) Summary  
Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**File ID:** I:\ACQUADATA\7890m\DATA\022318\au733.D\  
**Signal ID:** STx-CLPII

**Calibration Date:** 1/8/2018  
**Calibration ID:** RC1800008  
**Analysis Lot:** 581710  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4,4'-DDE	100	104	2.09E7	2.175E7	4.1	NA	±20	Average RF
4,4'-DDT	100	106	1.803E7	1.912E7	6.1	NA	±20	Average RF
Aldrin	100	102	2.507E7	2.564E7	2.3	NA	±20	Average RF
Endosulfan Sulfate	100	100	1.81E7	1.814E7	0.2	NA	±20	Average RF
Endrin	100	105	1.973E7	2.067E7	4.8	NA	±20	Average RF
Heptachlor	100	103	2.624E7	2.708E7	3.2	NA	±20	Average RF
alpha-BHC	100	111	3.157E7	3.491E7	10.6	NA	±20	Average RF
alpha-Chlordane	100	102	2.13E7	2.162E7	1.5	NA	±20	Average RF
delta-BHC	100	110	2.637E7	2.889E7	9.6	NA	±20	Average RF
gamma-BHC (Lindane)	100	106	2.728E7	2.888E7	5.8	NA	±20	Average RF
gamma-Chlordane	100	101	2.219E7	2.244E7	1.1	NA	±20	Average RF
Decachlorobiphenyl	100	85.4	1.47E7	1.255E7	-14.6	NA	±20	Average RF
Tetrachloro-m-xylene	100	101	2.331E7	2.349E7	0.8	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 21:05

**Continuing Calibration Verification (CCV) Summary  
Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**File ID:** I:\ACQUDATA\7890m\DATA\022318\au741.D\  
**Signal ID:** STx-CLPII

**Calibration Date:** 1/8/2018  
**Calibration ID:** RC1800008  
**Analysis Lot:** 581710  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4,4'-DDD	100	113	1.304E7	1.468E7	12.6	NA	±20	Average RF
Endosulfan I	100	108	1.477E7	1.601E7	8.4	NA	±20	Average RF
Endosulfan II	100	106	1.432E7	1.518E7	6.0	NA	±20	Average RF
Endosulfan Sulfate	100	105	1.307E7	1.368E7	4.7	NA	±20	Average RF
Endrin Aldehyde	100	107	1.147E7	1.229E7	7.2	NA	±20	Average RF
Endrin Ketone	100	102	1.523E7	1.548E7	1.7	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/23/18 21:05

**Continuing Calibration Verification (CCV) Summary  
Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:** 8081B  
**File ID:** I:\ACQUADATA\7890m\DATA\022318\au741.D\  
**Signal ID:** STx-CLPII

**Calibration Date:** 1/8/2018  
**Calibration ID:** RC1800008  
**Analysis Lot:** 581710  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
4,4'-DDE	100	104	2.09E7	2.182E7	4.4	NA	±20	Average RF
4,4'-DDT	100	101	1.803E7	1.822E7	1.1	NA	±20	Average RF
Aldrin	100	109	2.507E7	2.745E7	9.5	NA	±20	Average RF
Dieldrin	100	101	2.264E7	2.296E7	1.4	NA	±20	Average RF
Endrin	100	106	1.973E7	2.09E7	5.9	NA	±20	Average RF
Heptachlor	100	111	2.624E7	2.914E7	11.1	NA	±20	Average RF
Heptachlor Epoxide	100	102	2.187E7	2.22E7	1.5	NA	±20	Average RF
Methoxychlor	100	96.4	8.943E6	8.622E6	-3.6	NA	±20	Average RF
alpha-BHC	100	121	3.157E7	3.831E7	21.4*	NA	±20	Average RF
alpha-Chlordane	100	104	2.13E7	2.219E7	4.2	NA	±20	Average RF
beta-BHC	100	103	1.297E7	1.34E7	3.3	NA	±20	Average RF
delta-BHC	100	120	2.637E7	3.161E7	19.9	NA	±20	Average RF
gamma-BHC (Lindane)	100	116	2.728E7	3.169E7	16.2	NA	±20	Average RF
gamma-Chlordane	100	104	2.219E7	2.31E7	4.1	NA	±20	Average RF
Decachlorobiphenyl	100	81.9	1.47E7	1.205E7	-18.1	NA	±20	Average RF
Tetrachloro-m-xylene	100	110	2.331E7	2.565E7	10.0	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Analysis Run Log**  
**Organochlorine Pesticides by Gas Chromatography**

**Analysis Method:**

**Analysis Lot:**581710  
**Instrument ID:**R-GC-62

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\7890m\DATA\022318\au721.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	15:01:00	
I:\ACQUDATA\7890m\DATA\022318\au722.D\	Continuing Calibration Verification	RQ1801752-02	2/23/2018	15:19:00	
I:\ACQUDATA\7890m\DATA\022318\au723.D\	Lab Control Sample	RQ1801536-02	2/23/2018	15:40:00	
I:\ACQUDATA\7890m\DATA\022318\au724.D\	Duplicate Lab Control Sample	RQ1801536-03	2/23/2018	15:58:00	
I:\ACQUDATA\7890m\DATA\022318\au725.D\	Method Blank	RQ1801536-01	2/23/2018	16:16:00	
I:\ACQUDATA\7890m\DATA\022318\au726.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	16:34:00	
I:\ACQUDATA\7890m\DATA\022318\au727.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	16:52:00	
I:\ACQUDATA\7890m\DATA\022318\au728.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	17:10:00	
I:\ACQUDATA\7890m\DATA\022318\au729.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	17:28:00	
I:\ACQUDATA\7890m\DATA\022318\au730.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	17:46:00	
I:\ACQUDATA\7890m\DATA\022318\au731.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	18:05:00	
I:\ACQUDATA\7890m\DATA\022318\au733.D\	Continuing Calibration Verification	RQ1801752-03	2/23/2018	18:41:00	
I:\ACQUDATA\7890m\DATA\022318\au734.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	18:59:00	
I:\ACQUDATA\7890m\DATA\022318\au735.D\	ZZZZZZZ	ZZZZZZZ	2/23/2018	19:17:00	
I:\ACQUDATA\7890m\DATA\022318\au736.D\	TP-04 (6.0-7.0)	R1801453-004	2/23/2018	19:35:00	
I:\ACQUDATA\7890m\DATA\022318\au737.D\	TP-04 (6.0-7.0) MS	RQ1801536-04	2/23/2018	19:53:00	
I:\ACQUDATA\7890m\DATA\022318\au738.D\	TP-04 (6.0-7.0) DMS	RQ1801536-05	2/23/2018	20:11:00	
I:\ACQUDATA\7890m\DATA\022318\au739.D\	TP-12 (5.0)	R1801453-012	2/23/2018	20:29:00	
I:\ACQUDATA\7890m\DATA\022318\au741.D\	Continuing Calibration Verification	RQ1801752-04	2/23/2018	21:05:00	

Analysis: 8081 Analyst: MPEGLW Run Method: \_\_\_\_\_  
 Date: 2/23/18 Instr. 7890M R-GC-62 Quant Method: 8081010818  
 Syringes: \_\_\_\_\_ LIMS Run#: 81710

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BK			00719		
	↓			720		
	PRM		183998	721	YCC	
	CW46		186088	722	YCC	
	RQ 1801536-02			723	Y	
	03			724	Y	
	01			725	Y	DUP PC.
R	1801452-001	10		726	Y	
	007	10		727	Y	
	008	5		728	Y	
	001	5		729	Y	
	005	5		730	Y	
	006	5		731	Y	
	BK			732	Y	
	CW47		186088	733	YCC	
	R 1801452-007	5		734	Y	
	008	1.0		735	Y	* on hold but for genia BHC
	R 1801453-004	5		736	Y	
	RQ 1801536-04	5		737	Y	RPD + Recoveries out
	05	5		738	Y	
	R 1801453-012	5		739	Y	
	BK			740	Y	
	CW48		186088	741	YCC	some ↑

MP  
2/23/18

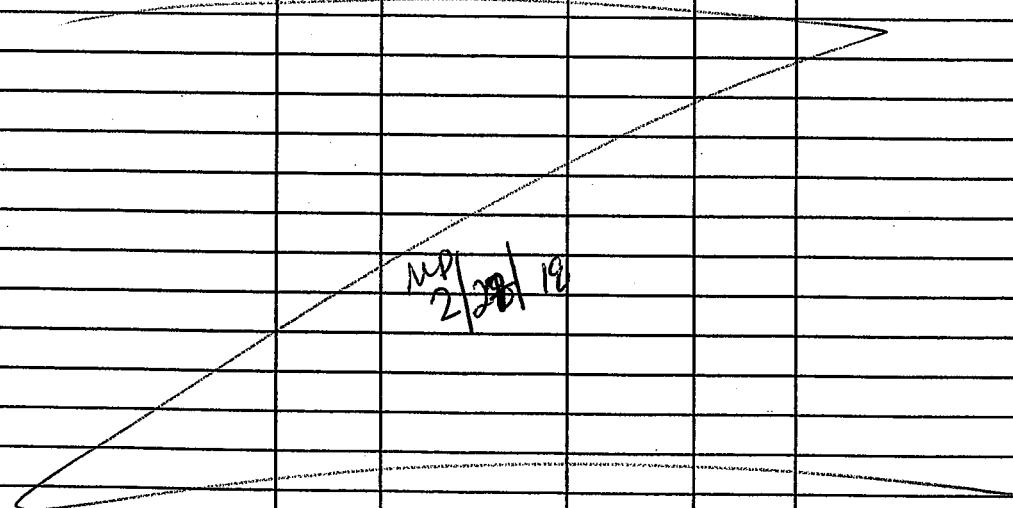
All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

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Analysis: 8081 Analyst: MPRCLW Run Method: \_\_\_\_\_  
 Date: 2/23/18 Instr. 7890M R-GC-62 Quant Method: 8081010818  
 Syringes: \_\_\_\_\_ LIMS Run#: 81710

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BK			00719		
	↓			720		
	Prim		183998	721	YPC	
	CW46		184088	722	YCC	
	RQ 1801536-02			723	Y	
	03			724	Y	
	01			725	Y	Diluted PC.
	R 1801452-001	10		726	Y	
	007	10		727	Y	
	008	5		728	Y	
	004	5		729	Y	
	005	5		730	Y	
	006	5		731	Y	
	BK			732	Y	
	CW47		186088	733	YCC	
	R 1801452-007	5		734	Y	
	008	1.0		735	Y	* on hold hit for gamma BHC + BC.
	R 1801453-004	5		736	Y	
	RQ 1801536-04	5		737	Y	RPD + Recoveries out.
	05	5		738	Y	
	R 1801453-012	5		739	Y	
	BK			740	Y	
	CW48		186088	741	YCC	Some ↑
						

MP  
2/23/18

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Runlog GCEXT r2 4/27/17  
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Analysis: 2008/10/08  
 Date: 10/18  
 Syringes:

Analyst: M. P. ...  
 Instr. 7890M R-GC-62

Run Method: 80816  
 Quant Method: 8081 010812.m

LIMS Run#:

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	Bu			00336		
	Pum		183998	337		
	cu			338		
	pest 2ppb		183660	339	Y	
	5ppb		665	340	Y	
	10ppb		664	341	Y	
	50ppb		186087	342	Y	
	100ppb		186088	343	Y	
	200ppb		183661	344	Y	
	pest ICV		1868104	345	Y	ICV
	KIF L		184330	346	Y	
	↓ M		184331	347	Y	
	↓ M		184332	348	Y	
	↓ MH		184333	349	Y	
	↓ H		184334	350	Y	
	KIF IV		183591	351	Y	IV
	Mixer ICV		183869	352	Y	ICV
	TOX L		186671	353	Y	
	↓ L		186672	354	Y	
	↓ M		186673	355	Y	
	↓ m		186674	356	Y	
	↓ MH		186675	357	Y	
	↓ H		186676	358	Y	
	TOX IV		186701	359	Y	IV
	Chlor L		186695	360	Y	
	↓ M		186694	361	Y	
	↓ m		186693	362	Y	
	↓ MH		186689	363	Y	
	↓ H		186688	364	Y	
	Chlor IV		186704	365	Y	IV
	Cev1			366	Y	
	R1712164-001			367	Y	
	R1712164-04			368	Y	
	05			369	Y	
	R1712185-001			370	Y	
	R1712168-002			371	Y	
	Cev2			372	Y	Mixer ↓ Pol

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents:

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Runlog GCEXT r2 4/27/17

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ALS Group USA, Corp.  
dba ALS Environmental

Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1801453

**Organochlorine Pesticides by Gas Chromatography**

**Prep Method:** EPA 3541  
**Analytical Method:** 8081B

**Extraction Lot:**308673

<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Collected</b>	<b>Date Received</b>	<b>Sample Amount</b>	<b>Final Amount</b>	<b>Percent Solids</b>
TP-04 (6.0-7.0)	R1801453-004	2/15/18	2/19/18	30.2000 g	10 mL	84.5
TP-12 (5.0)	R1801453-012	2/15/18	2/19/18	30.0 g	10 mL	81.1
Method Blank	RQ1801536-01MB	NA	NA	30.0 g	10 mL	
Lab Control Sample	RQ1801536-02LCS	NA	NA	30.0 g	10 mL	
Duplicate Lab Control Sample	RQ1801536-03DLCS	NA	NA	30.0 g	10 mL	
Matrix Spike	RQ1801536-04MS	2/15/18	2/19/18	30.0 g	10 mL	84.5
Duplicate Matrix Spike	RQ1801536-05DMS	2/15/18	2/19/18	30.1300 g	10 mL	84.5

# Preparation Information Benchsheet

**Prep Run#:** 308673      **Prep WorkFlow:** OrgExtS(14)      **Status:** Prepped  
**Team:** Semiova GC/DMURPHY      **Prep Method:** EPA 3541      **Prep Date/Time:** 2/21/18 07:33 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	Spike Amt./Inv. ID	Comments
1	RQ1801536-01	MB		30.0g	8081B/Pest OC				10.00mL	sand	1.0000 mL/187936	
2	RQ1801536-01	MB		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/187936	
3	RQ1801536-02	LCS		30.0g	8081B/Pest OC				10.00mL	sand	1.0000 mL/186812; 1.0000 mL/187936	
4	RQ1801536-02	LCS		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/186813; 1.0000 mL/187936	
5	RQ1801536-03	DLCS		30.0g	8081B/Pest OC				10.00mL	sand	1.0000 mL/186812; 1.0000 mL/187936	
6	RQ1801536-03	DLCS		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/186813; 1.0000 mL/187936	
7	R1801452-001	SB-1 (0-0.25)	.02	30.1200g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
8	R1801452-002	SB-1 (1.75-2.25)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
9	R1801452-003	SB-2 (0-0.25)	.02	30.1900g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
10	R1801452-004	SB-2 (2.2-2.7)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
11	R1801452-005	SB-3 (0-0.25)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
12	R1801452-006	SB-3 (2.0-2.5)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
13	R1801452-007	SB-4 (0-0.25)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
14	R1801452-008	SB-4 (1-2)	.02	30.1400g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
15	R1801453-004	TP-04 (6.0-7.0)	.01	30.2000g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
16	RQ1801536-04	R1801453-004 MS	.01	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
17	RQ1801536-05	R1801453-004 DMS	.01	30.1300g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936; 1.0000 mL/186812	
18	R1801453-012	TP-12 (5.0)	.05	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
19	R1801453-019	TP-22 (4.0-5.0)	.05	30.2300g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936; 1.0000 mL/186812	
20	RQ1801536-06	R1801453-019 MS	.05	30.1100g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/186813	
21	RQ1801536-07	R1801453-019 DMS	.05	30.0700g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936; 1.0000 mL/186813	

### Spiking Solutions

**Name:** 608 LCS Spike STD      Inventory ID: 186812      Logbook Ref:      Expires On: 02/28/2018  
**Name:** 8082 Spike 5 ug/mL AR 1260      Inventory ID: 186813      Logbook Ref:      Expires On: 07/01/2018  
**Name:** 8081/8082 Surrogate Spike STD 1 ug/mL      Inventory ID: 187936      Logbook Ref:      Expires On: 08/08/2018

### Preparation Materials

50:50 acetone:hexane mix (188019)      Boiling Stones PTFE (187987)      Eppendorf Pipette Repeater EXT #18 (184837)  
 Florisil Columnn 1g 6mL SPE (184920)      2mL Graduated Vials (187355)      Sulfuric Acid Reagent Grade (186036)  
 Columns      Sand Reagent Grade (187622)      H2SO4  
 Prepared Sodium Sulfate (188011)      Tetrahydroammonium Hydrogen Sulfate (TBA) (178388)

# Preparation Information Benchsheet

**Prep Run#:** 308673  
**Team:** Semivoa GC/DMURPHY

**Prep WorkFlow:** OrgExIS(14)  
**Prep Method:** EPA 3541

**Status:** Prepped  
**Prep Date/Time:** 2/21/18 07:33 AM

**Preparation Steps**

**Step:** Extraction  
**Started:** 2/21/18 07:33  
**Finished:** 2/22/18 15:46  
**By:** DMURPHY  
**Comments:** Extraction Complete

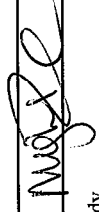
**Step:** Concentration  
**Started:** 2/22/18 15:48  
**Finished:** 2/22/18 15:48  
**By:** DMURPHY  
**Comments:**

**Step:** Florisil Col Clean-EPA 3621  
**Started:** 2/22/18 15:48  
**Finished:** 2/22/18 15:48  
**By:** DMURPHY  
**Comments:**

**Step:** Acid Clean-EPA 3665A  
**Started:** 2/22/18 15:49  
**Finished:** 2/22/18 15:49  
**By:** DMURPHY  
**Comments:**

**Step:** Sulfur Clean-EPA 3660B  
**Started:** 2/22/18 15:49  
**Finished:** 2/22/18 15:49  
**By:** DMURPHY  
**Comments:**

**Comments:**

**Reviewed By:**  **Date:** 2/23/18

**Spike Witness:** MPEDRO

**Chain of Custody**

**Relinquished By:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
**Received By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Extracts Examined**  
 Yes \_\_\_\_\_ No \_\_\_\_\_

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

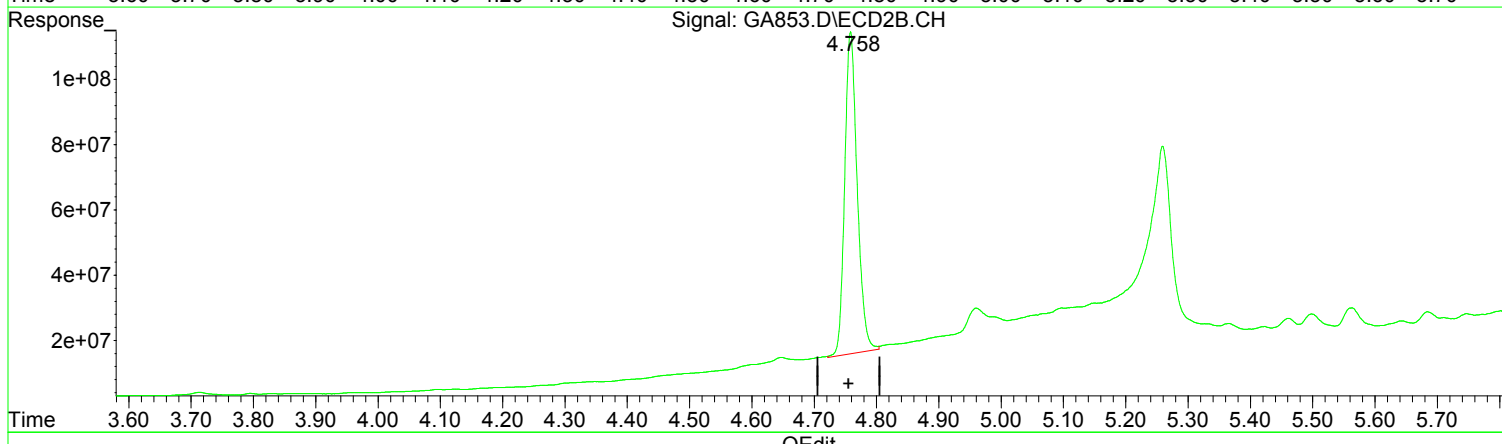
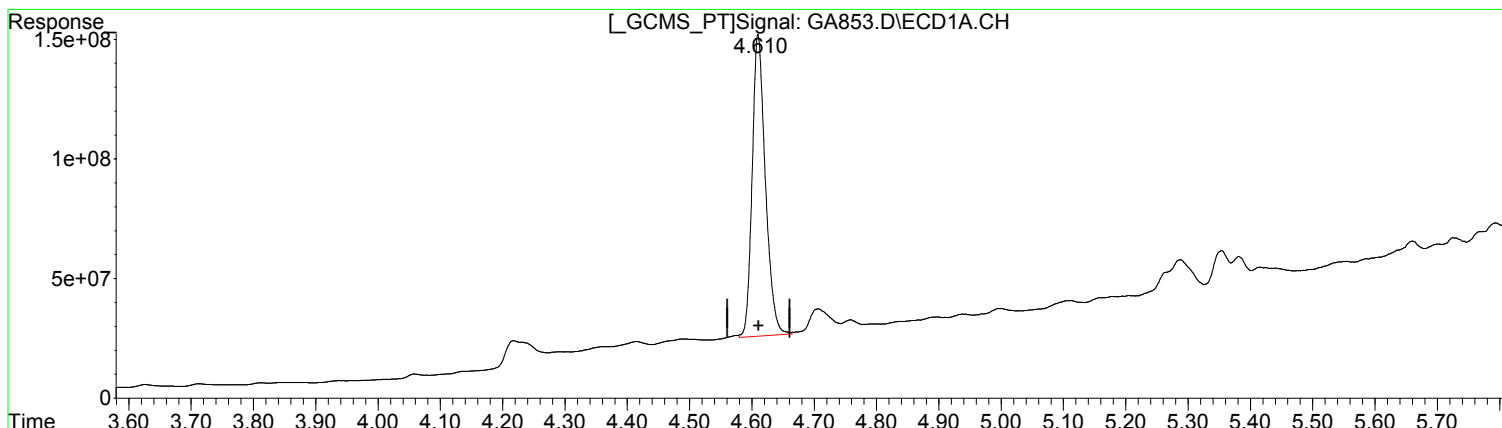
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	40 U	40	21	1	02/26/18 17:14	2/21/18	
Aroclor 1221	82 U	82	41	1	02/26/18 17:14	2/21/18	
Aroclor 1232	40 U	40	24	1	02/26/18 17:14	2/21/18	
Aroclor 1242	40 U	40	21	1	02/26/18 17:14	2/21/18	
Aroclor 1248	40 U	40	32	1	02/26/18 17:14	2/21/18	
Aroclor 1254	40 U	40	23	1	02/26/18 17:14	2/21/18	
Aroclor 1260	40 U	40	21	1	02/26/18 17:14	2/21/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	22 - 128	02/26/18 17:14	
Tetrachloro-m-xylene	73	14 - 119	02/26/18 17:14	

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA853.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:14 pm  
Operator : M.Pedro  
Sample : R1801453-019  
Misc : 308673  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:08 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.609min 73.816 ug/l m  
response 1860323334

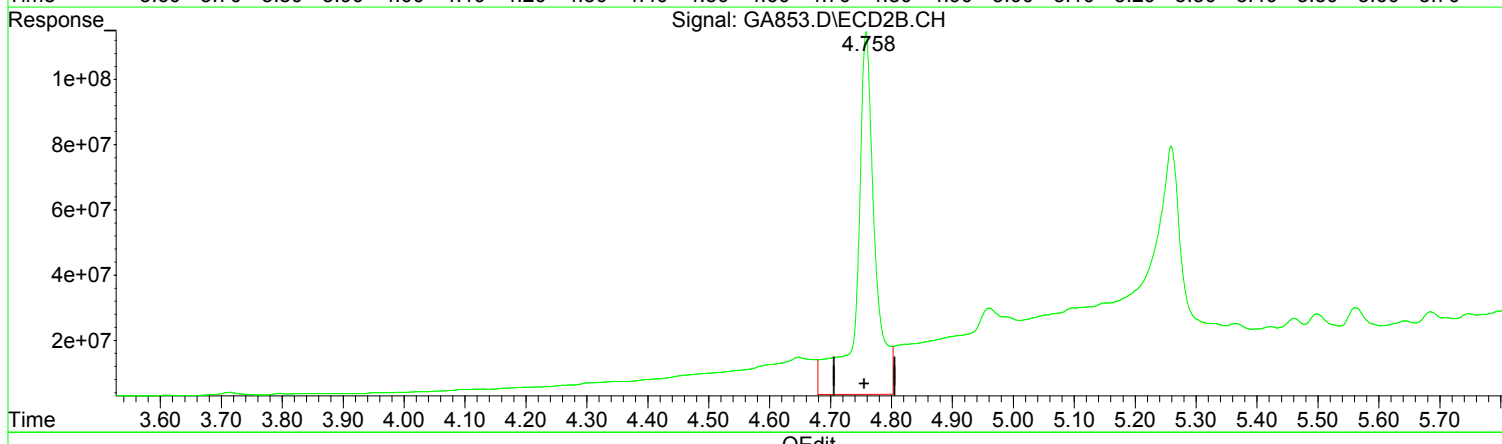
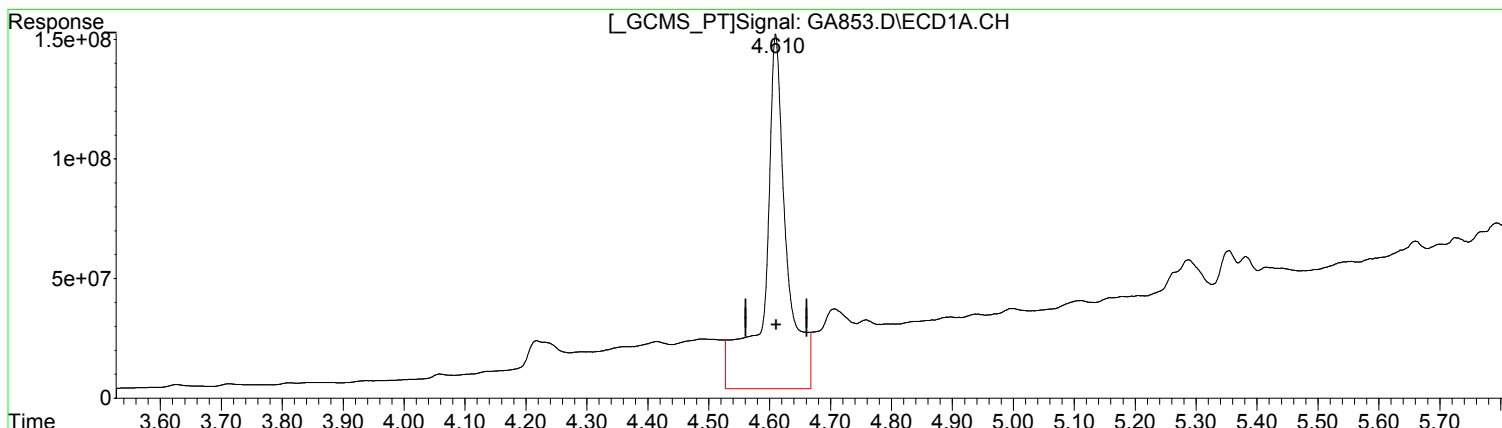
(1) SURR1, TCMX #2 (S)  
4.758min 72.691 ug/l m  
response 1377950279

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA853.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:14 pm  
Operator : M.Pedro  
Sample : R1801453-019  
Misc : 308673  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:08 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.610min 146.600 ug/l  
response 3694634803

(1) SURR1, TCMX #2 (S)  
4.759min 119.886 ug/l  
response 2272596419

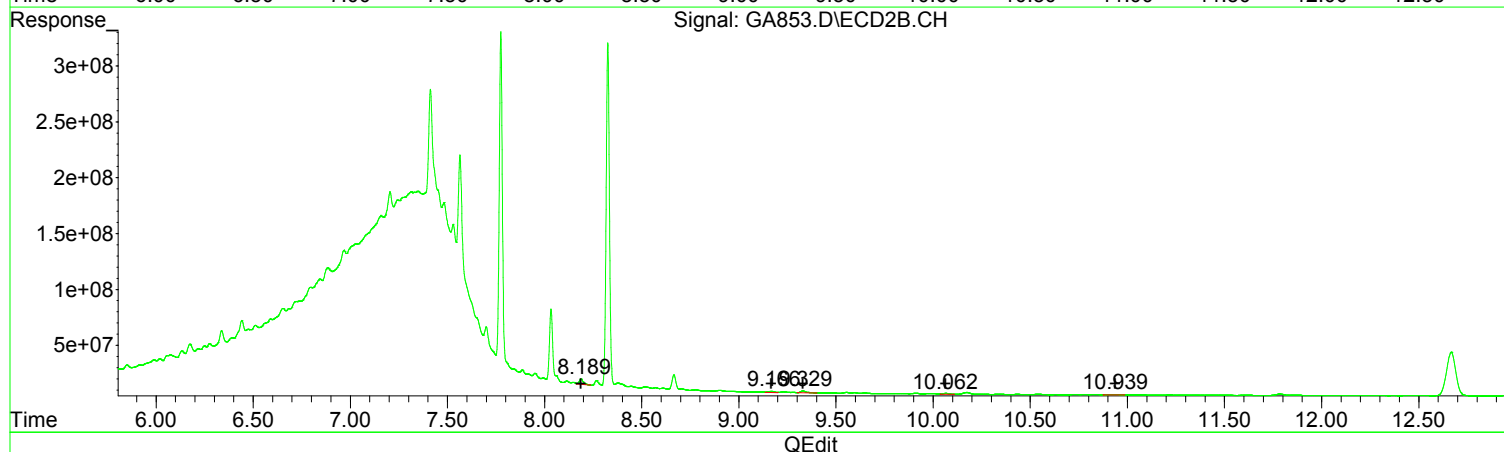
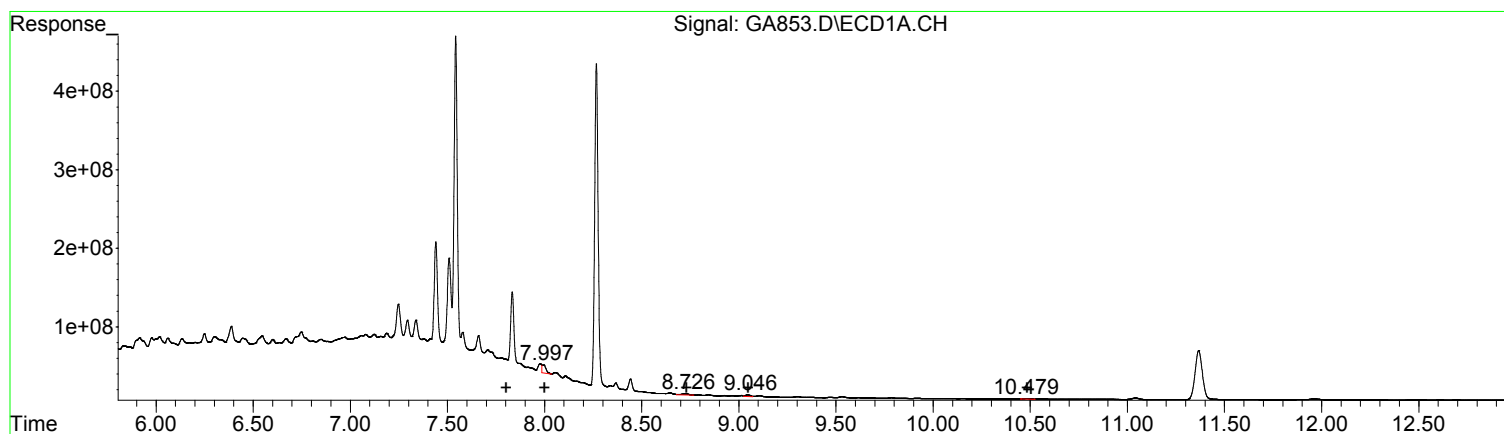
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA853.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:14 pm  
Operator : M.Pedro  
Sample : R1801453-019  
Misc : 308673  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:08 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)		
R.T.	Response	Conc
0.00	0	0.00
8.00	140815730	88.97
8.73	39903414	35.90
9.05	35402956	17.07
10.48	10335182	20.51

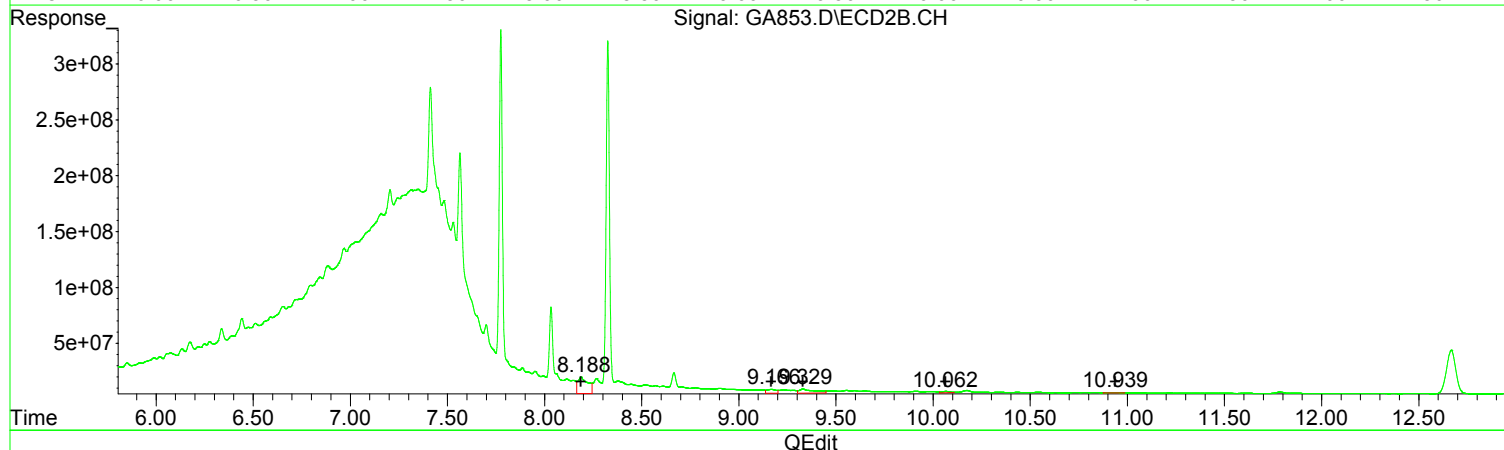
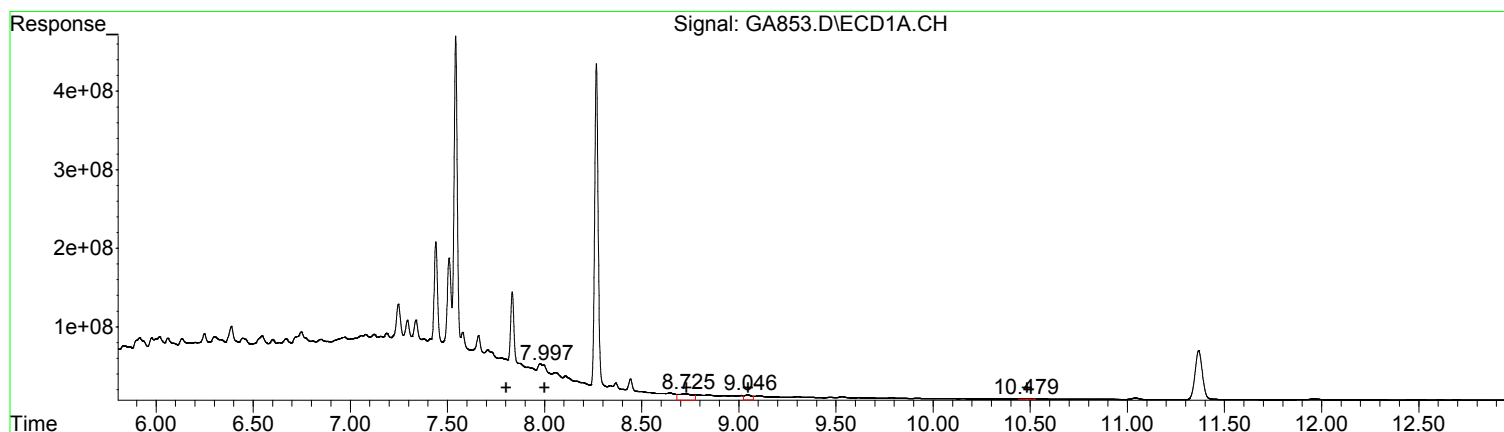
(33) PCB 1260 #2 (L7c)		
R.T.	Response	Conc
8.19	68510726	57.44
9.17	17966142	24.69
9.33	34614322	19.93
10.06	15396051	15.88
10.94	13683170	22.51

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA853.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:14 pm  
Operator : M.Pedro  
Sample : R1801453-019  
Misc : 308673  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:08 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)

R.T.	Response	Conc
0.00	0	0.00
8.00	1107051174	699.46
8.73	415451865	373.78
9.05	172108932	83.01
10.48	25218583	50.05

Manual Integration:  
Before  
02/27/18

(33) PCB 1260 #2 (L7c)

R.T.	Response	Conc
8.19	531436011	445.54
9.17	112497077	154.63
9.33	205001759	118.05
10.06	34907985	36.02
10.94	13683170	22.51

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA853.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 5:14 pm  
 Operator : M.Pedro  
 Sample : R1801453-019  
 Misc : 308673  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:08 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

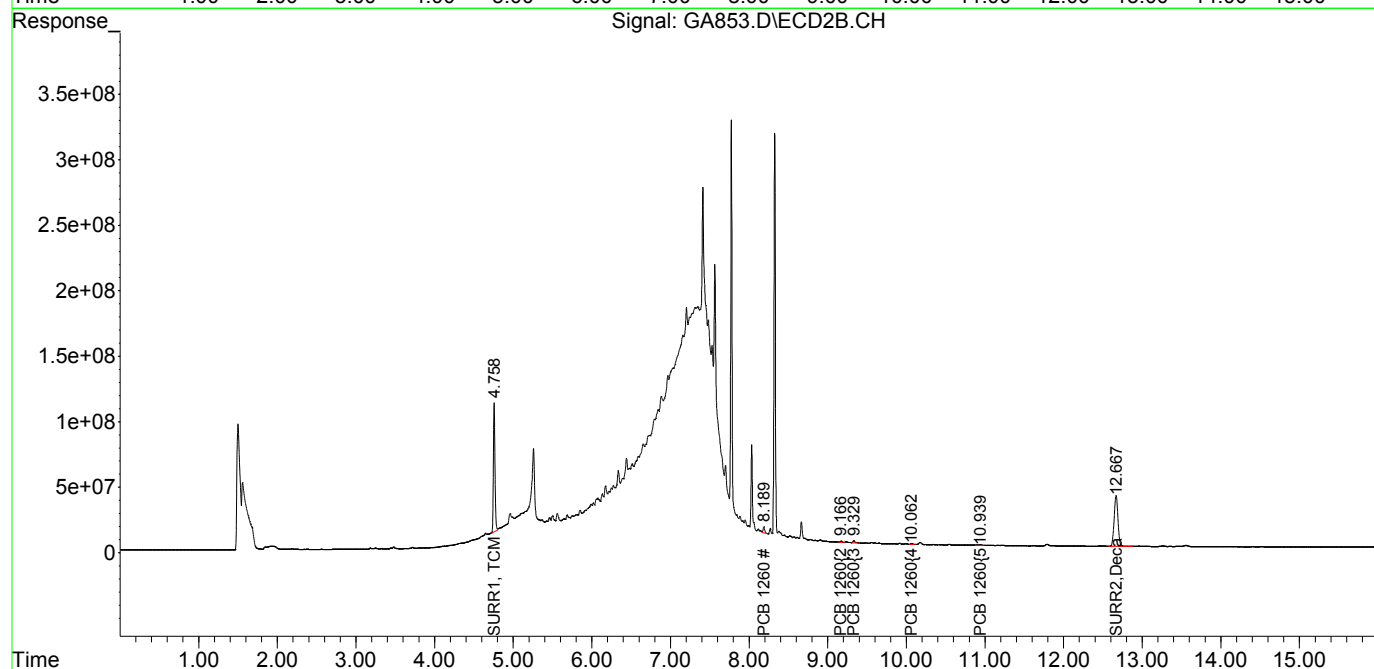
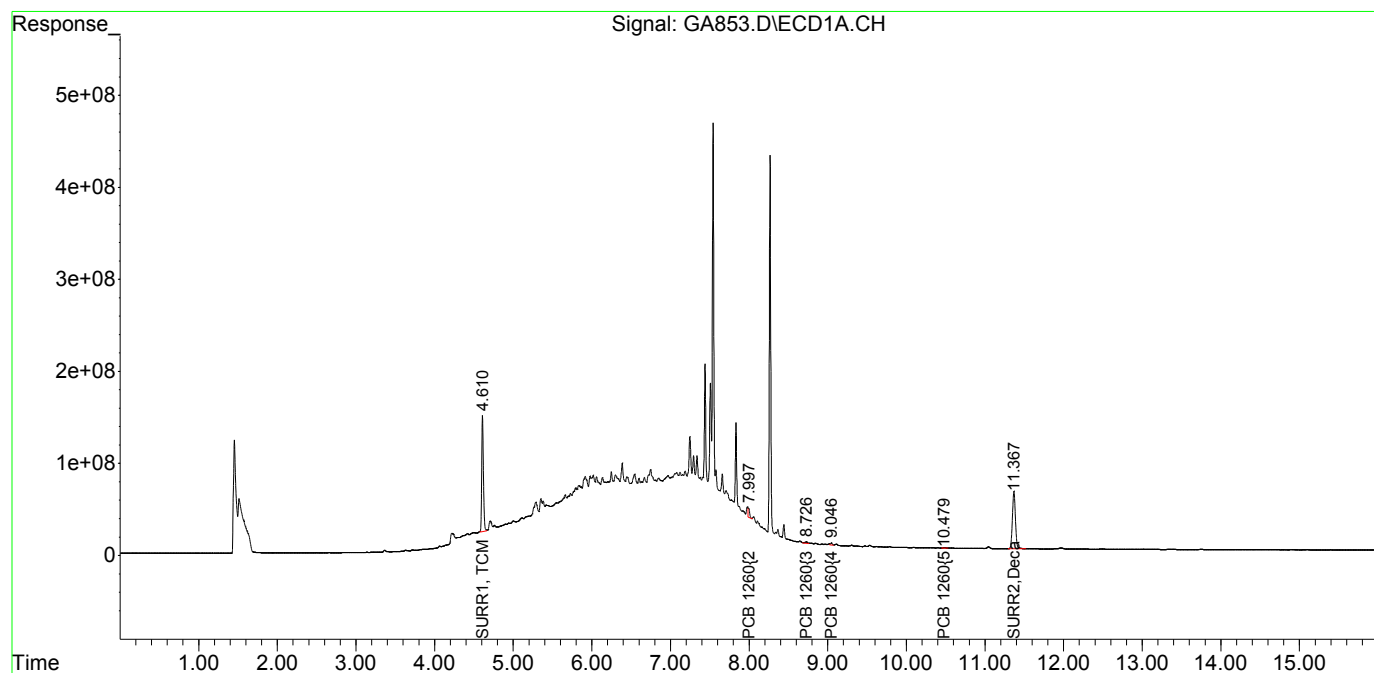
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.758	1860.3E6	1378.0E6	73.816m	72.691m
Spiked Amount	100.000	Range	30 - 150	Recovery =	73.82%	72.69%
2) S SURR2, Dec...	11.367	12.667	1657.3E6	1304.8E6	81.450	79.481
Spiked Amount	100.000	Range	30 - 150	Recovery =	81.45%	79.48%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	0.000	8.189	0	68510726	N.D. d	57.438m#
34) L7c PCB 1260{2}	7.997	9.166	140.8E6	17966142	88.970m	24.695m#
35) L7c PCB 1260{3}	8.726	9.329	39903414	34614322	35.900m	19.933m#
36) L7c PCB 1260{4}	9.046	10.062	35402956	15396051	17.074m	15.885m
37) L7c PCB 1260{5}	10.479	10.939	10335182	13683170	20.513m	22.513
Sum PCB 1260			226.5E6	150.2E6	162.458	140.463
Average PCB 1260					40.614	28.093
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA853.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:14 pm  
Operator : M.Pedro  
Sample : R1801453-019  
Misc : 308673  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:08 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA856.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 6:13 pm  
 Operator : M.Pedro  
 Sample : RQ1801536-01  
 Misc : 308673  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:20 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
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System Monitoring Compounds

1) S SURR1, TCMX	4.612	4.756	1004.3E6	739.4E6	39.851	39.005
Spiked Amount	100.000	Range	30 - 150	Recovery	= 39.85%	39.01%
2) S SURR2, Dec...	11.368	12.666	1662.2E6	1274.0E6	81.690	77.603
Spiked Amount	100.000	Range	30 - 150	Recovery	= 81.69%	77.60%

Target Compounds

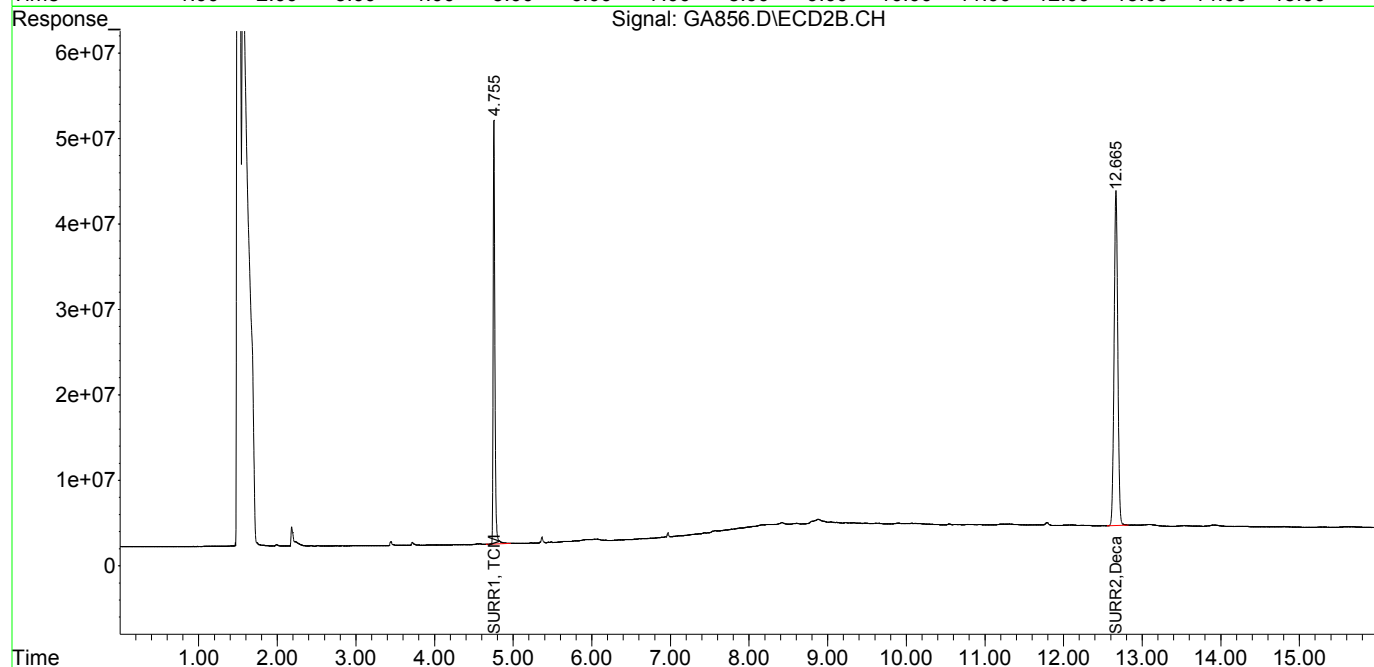
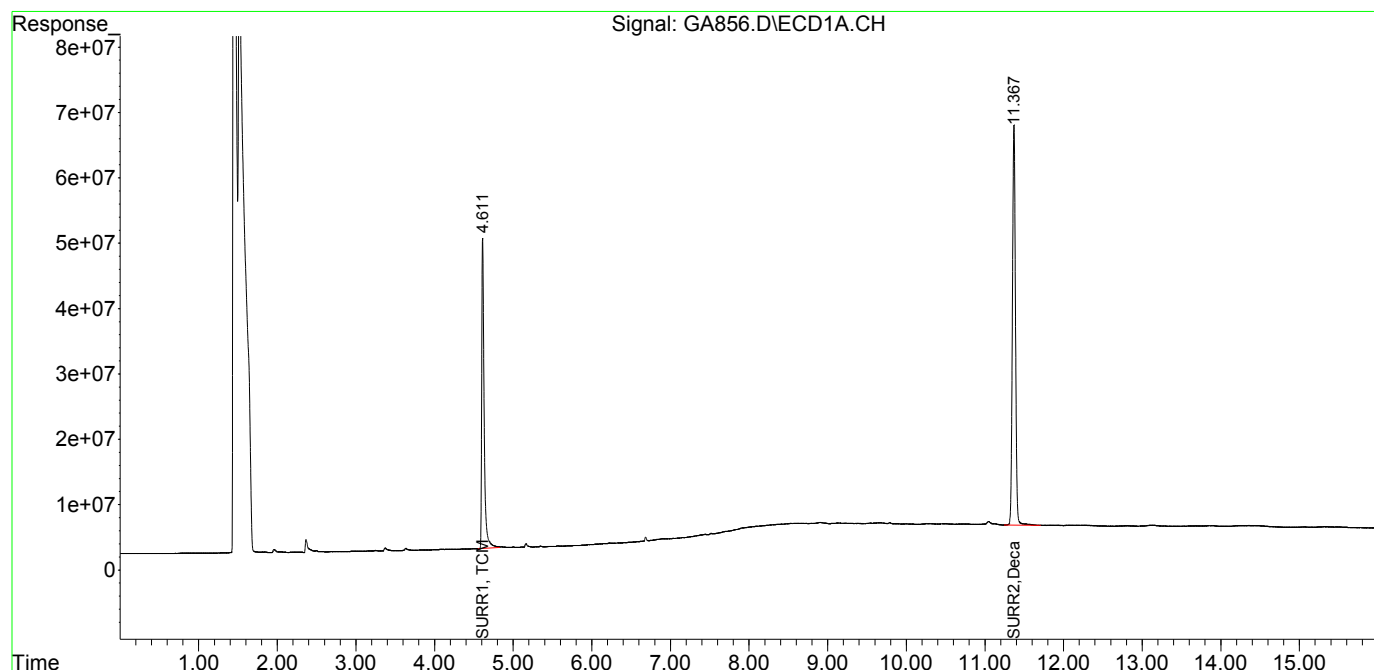
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA856.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 6:13 pm  
Operator : M.Pedro  
Sample : RQ1801536-01  
Misc : 308673  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:20 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

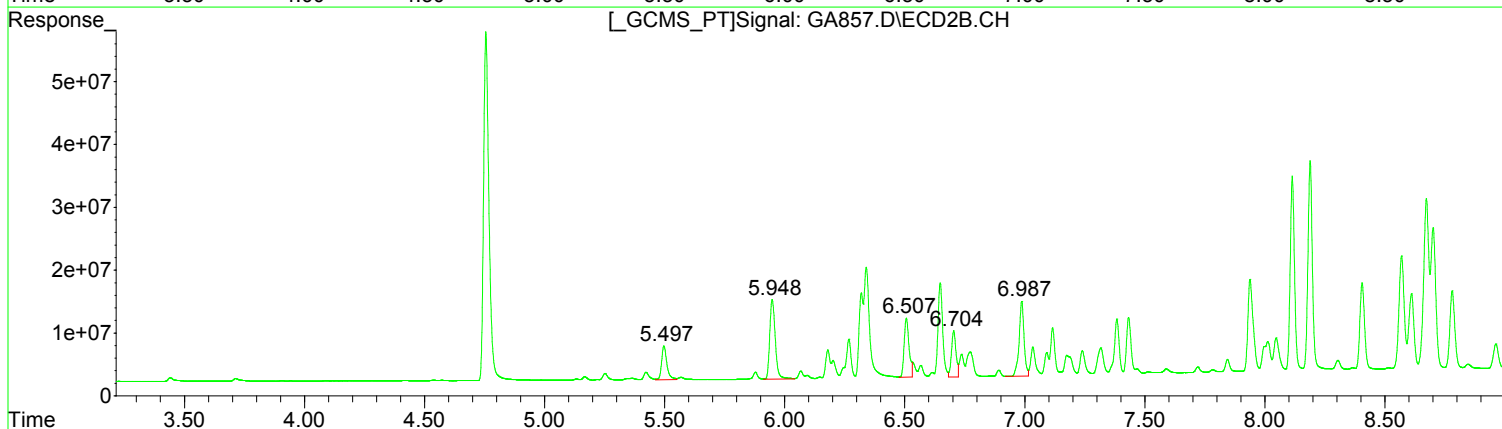
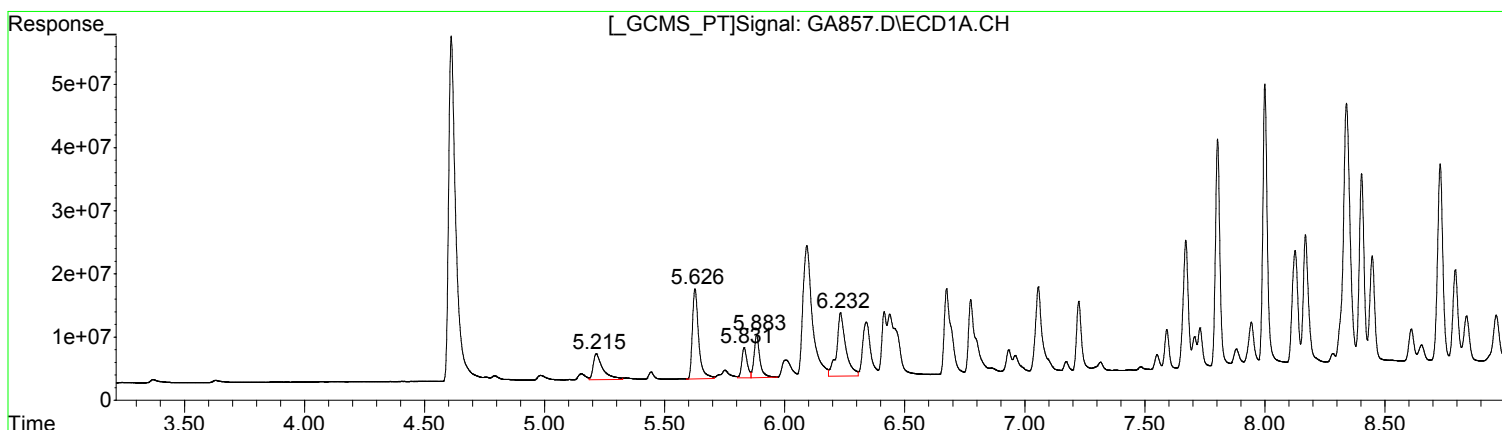
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA857.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 6:33 pm  
Operator : M.Pedro  
Sample : RQ1801536-02  
Misc : 308673  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:25 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.22	115414687	242.88
5.63	258287818	265.59
5.83	74976328	274.26
5.88	113368936	275.48
6.23	267136657	296.16

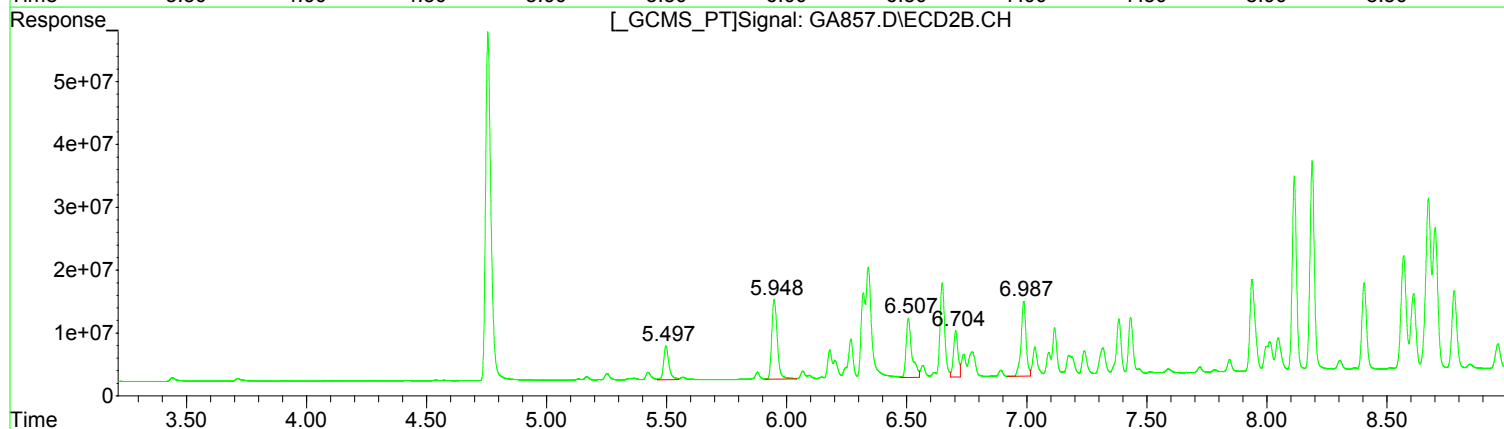
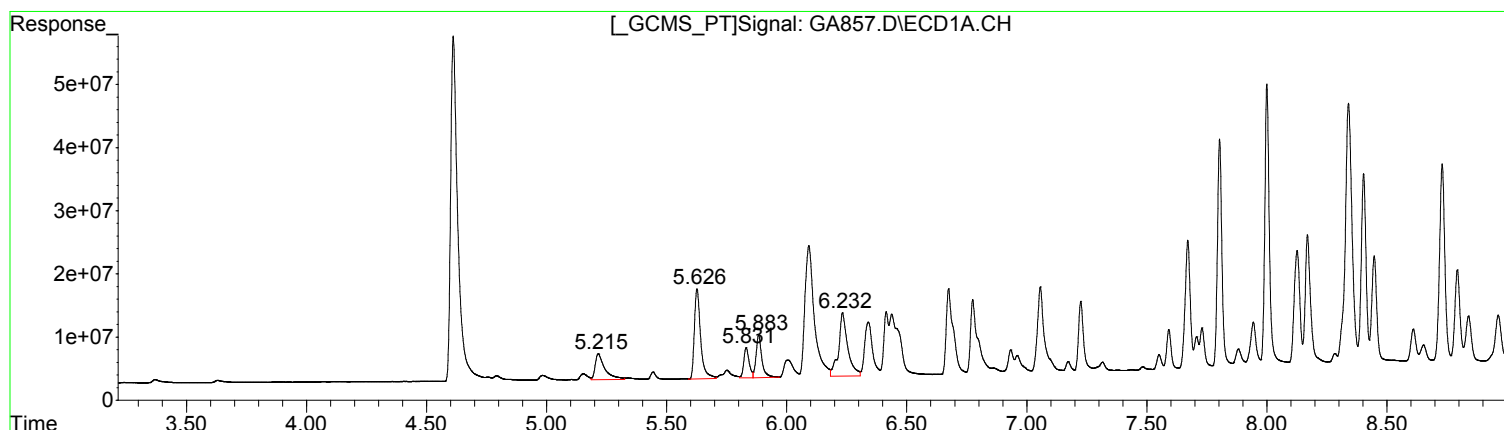
(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	82090268	249.48
5.95	201603466	265.13
6.51	135022438	284.26
6.70	96954772	300.01
6.99	170884018	310.25

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA857.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 6:33 pm  
Operator : M.Pedro  
Sample : RQ1801536-02  
Misc : 308673  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:25 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.22	115414687	242.88
5.63	258287818	265.59
5.83	74976328	274.26
5.88	113368936	275.48
6.23	267136657	296.16

Manual Integration:  
Before  
02/27/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	82090268	249.48
5.95	201603466	265.13
6.51	158237069	333.13
6.70	96954772	300.01
6.99	170884018	310.25



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA857.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 6:33 pm  
 Operator : M.Pedro  
 Sample : RQ1801536-02  
 Misc : 308673  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:25 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.612	4.756	1149.0E6	866.1E6	45.593	45.691
Spiked Amount	100.000	Range	30 - 150	Recovery =	45.59%	45.69%
2) S SURR2, Dec...	11.369	12.667	1798.6E6	1406.5E6	88.391	85.674
Spiked Amount	100.000	Range	30 - 150	Recovery =	88.39%	85.67%
Target Compounds						
3) L1c PCB 1016	5.215	5.497	115.4E6	82090268	242.877	249.481
4) L1c PCB 1016{2}	5.627	5.948	258.3E6	201.6E6	265.587	265.127
5) L1c PCB 1016{3}	5.832	6.507	74976328	135.0E6	274.263	284.260m
6) L1c PCB 1016{4}	5.884	6.704	113.4E6	96954772	275.477	300.015
7) L1c PCB 1016{5}	6.232	6.988	267.1E6	170.9E6	296.164	310.252
Sum PCB 1016			829.2E6	686.6E6	1354.369	1409.135
Average PCB 1016					270.874	281.827
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.189	483.3E6	451.5E6	378.157	378.551
34) L7c PCB 1260{2}	8.000	9.165	619.1E6	326.2E6	391.130	448.330
35) L7c PCB 1260{3}	8.730	9.329	501.4E6	807.9E6	451.061	465.210
36) L7C PCB 1260{4}	9.047	10.065	990.5E6	427.7E6	477.706	441.298
37) L7C PCB 1260{5}	10.483	10.937	270.4E6	310.1E6	536.758	510.246
Sum PCB 1260			2864.6E6	2323.4E6	2234.812	2243.635
Average PCB 1260					446.962	448.727
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

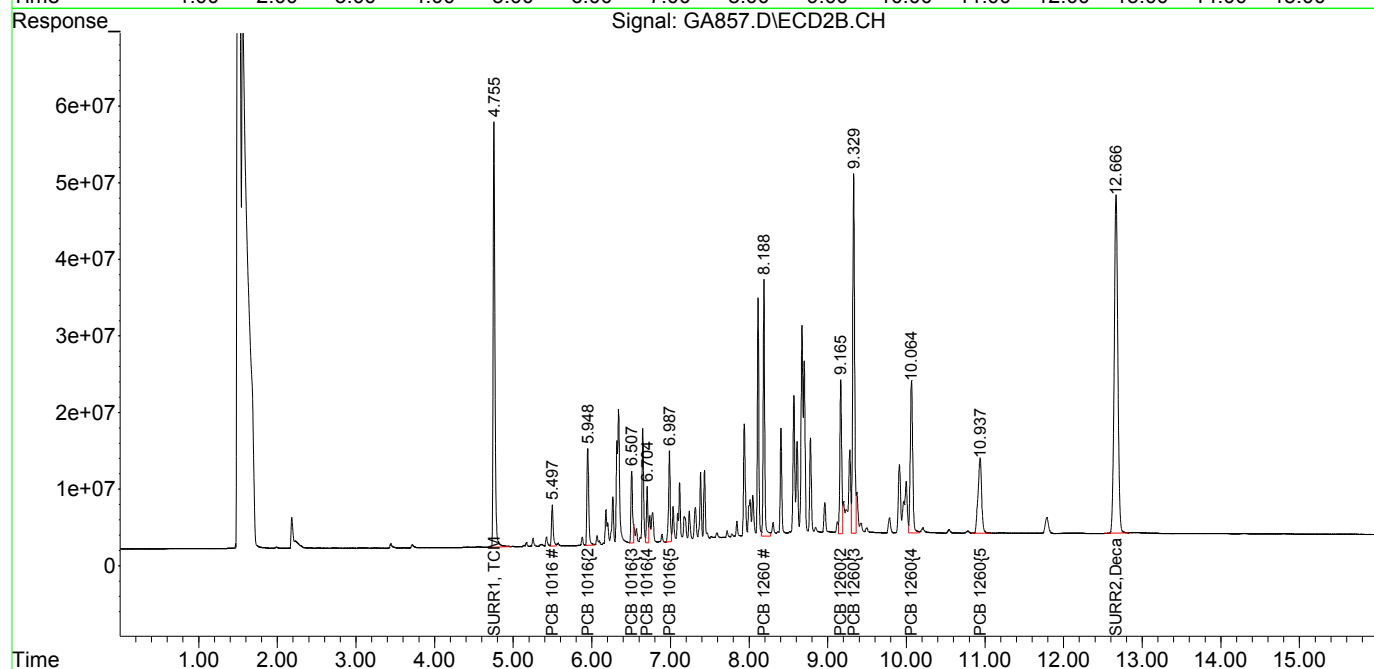
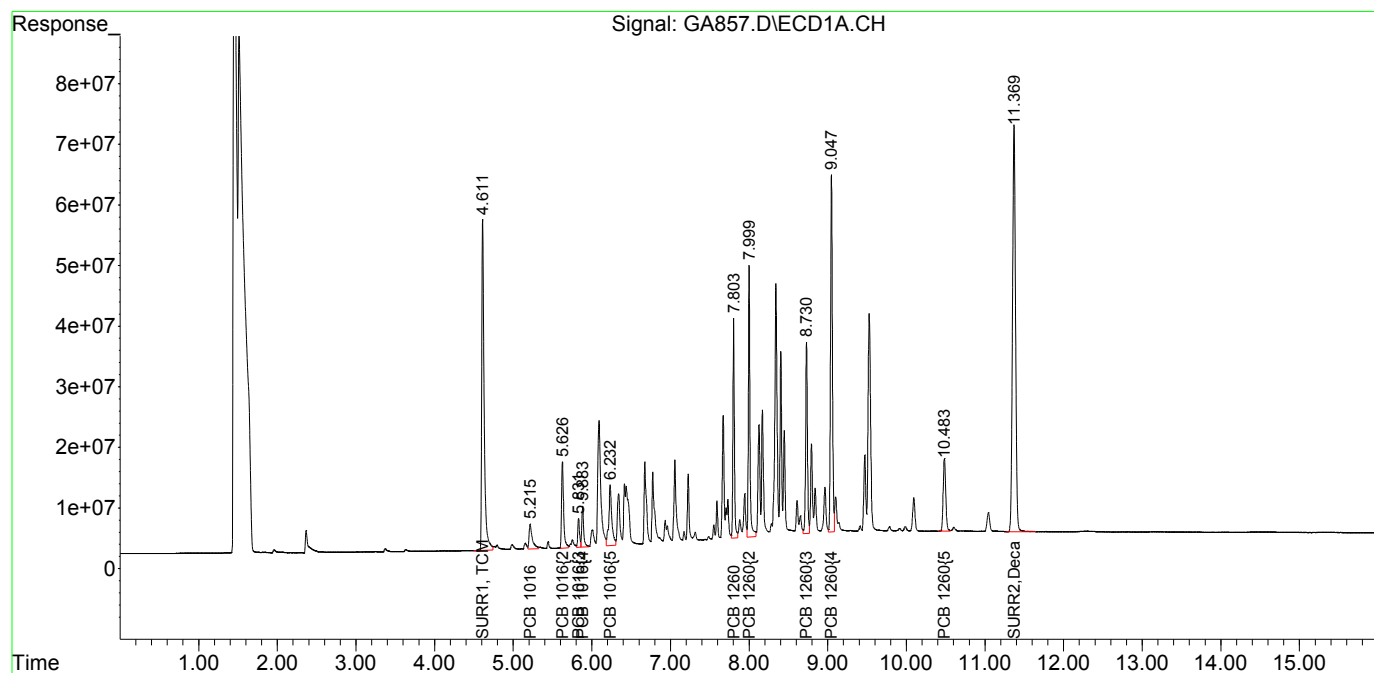
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA857.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 6:33 pm  
Operator : M.Pedro  
Sample : RQ1801536-02  
Misc : 308673  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:25 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA858.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 6:53 pm  
 Operator : M.Pedro  
 Sample : RQ1801536-03  
 Misc : 308673  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:30 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.755	1128.4E6	846.7E6	44.772	44.664
Spiked Amount	100.000	Range	30 - 150	Recovery =	44.77%	44.66%
2) S SURR2, Dec...	11.367	12.664	1807.5E6	1425.3E6	88.831	86.820
Spiked Amount	100.000	Range	30 - 150	Recovery =	88.83%	86.82%
Target Compounds						
3) L1c PCB 1016	5.216	5.497	138.7E6	94369126	291.906	286.797
4) L1c PCB 1016{2}	5.627	5.948	331.0E6	257.8E6	340.399	339.088
5) L1c PCB 1016{3}	5.833	6.506	99275912	214.8E6	363.151	452.288
6) L1c PCB 1016{4}	5.883	6.704	147.3E6	132.8E6	357.815	410.850
7) L1c PCB 1016{5}	6.233	6.987	359.4E6	232.8E6	398.432	422.657
Sum PCB 1016			1075.7E6	932.6E6	1751.702	1911.680
Average PCB 1016					350.340	382.336
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.188	548.6E6	495.3E6	429.240	415.225
34) L7c PCB 1260{2}	8.001	9.165	680.1E6	350.1E6	429.705	481.180
35) L7c PCB 1260{3}	8.730	9.328	537.2E6	862.0E6	483.271	496.403
36) L7c PCB 1260{4}	9.046	10.063	1055.7E6	447.9E6	509.164	462.159
37) L7c PCB 1260{5}	10.482	10.934	330.8E6	328.1E6	656.652	539.813
Sum PCB 1260			3152.4E6	2483.4E6	2508.032	2394.780
Average PCB 1260					501.606	478.956
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

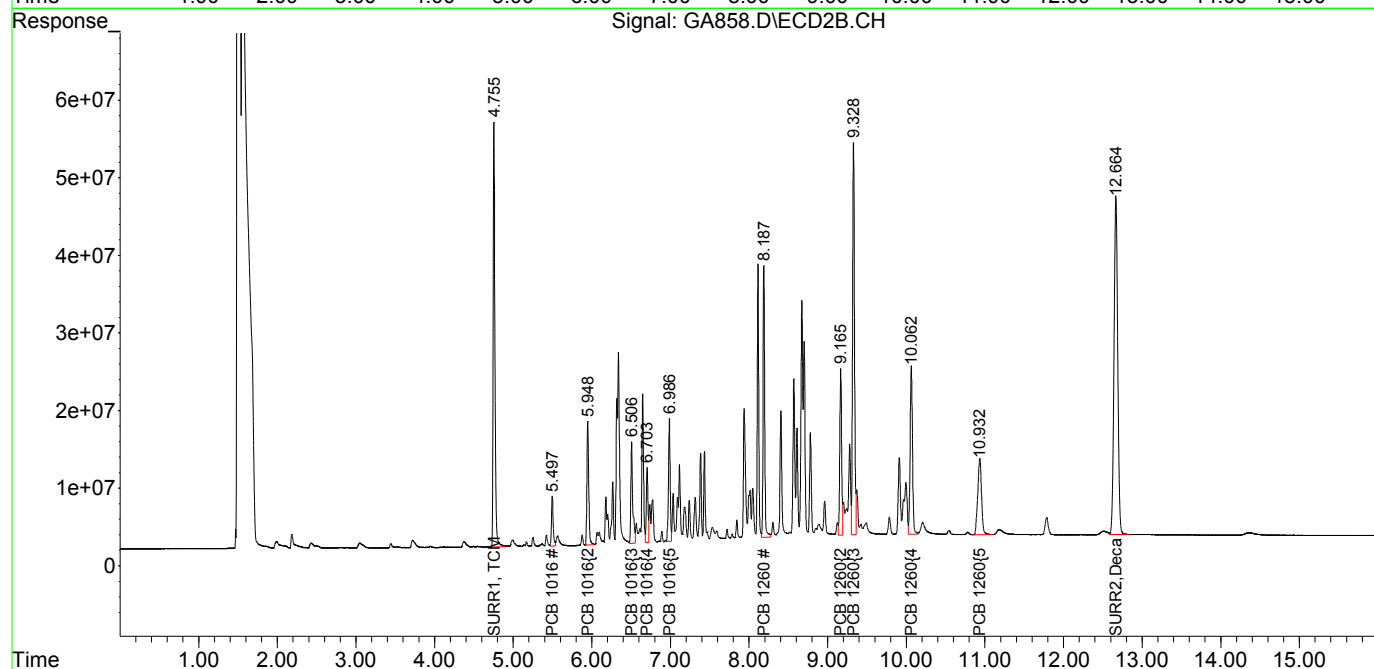
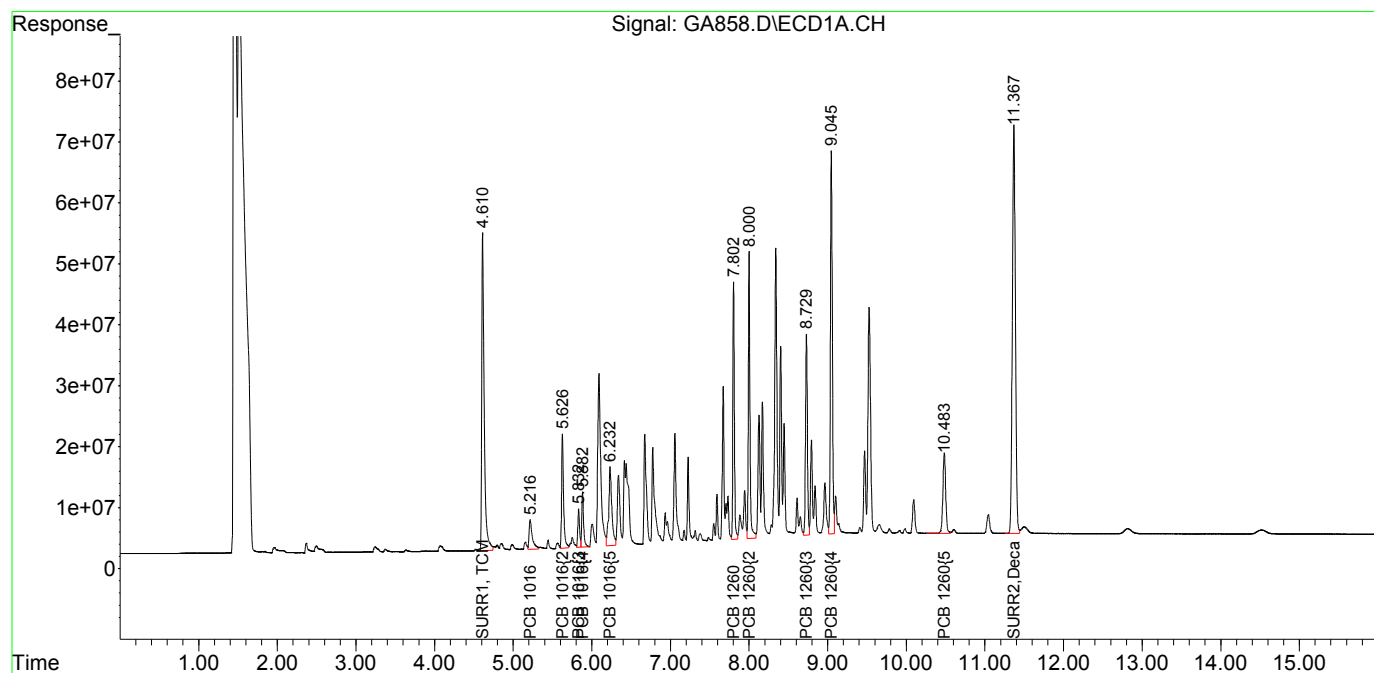
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA858.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 6:53 pm  
Operator : M.Pedro  
Sample : RQ1801536-03  
Misc : 308673  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:30 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

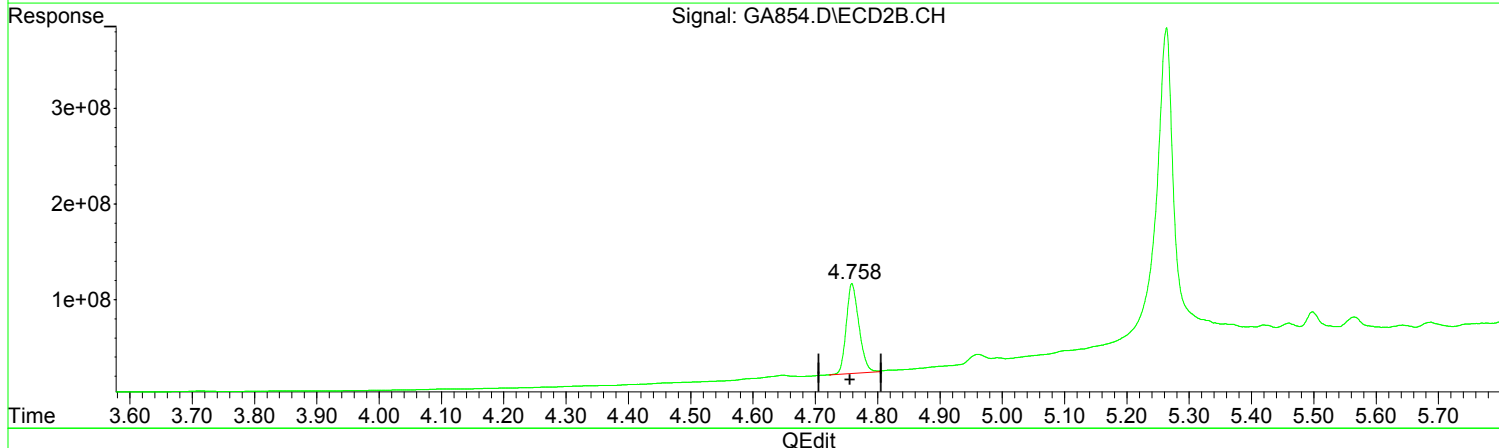
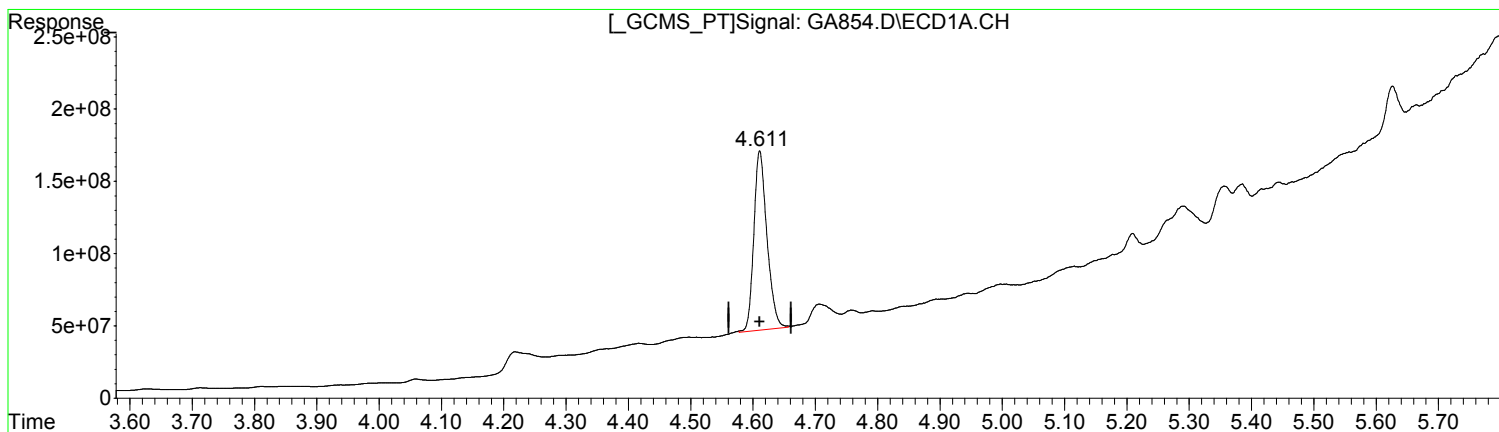
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA854.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:34 pm  
Operator : M.Pedro  
Sample : RQ1801536-06  
Misc : 308673  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.611min 71.858 ug/l m  
response 1810977230

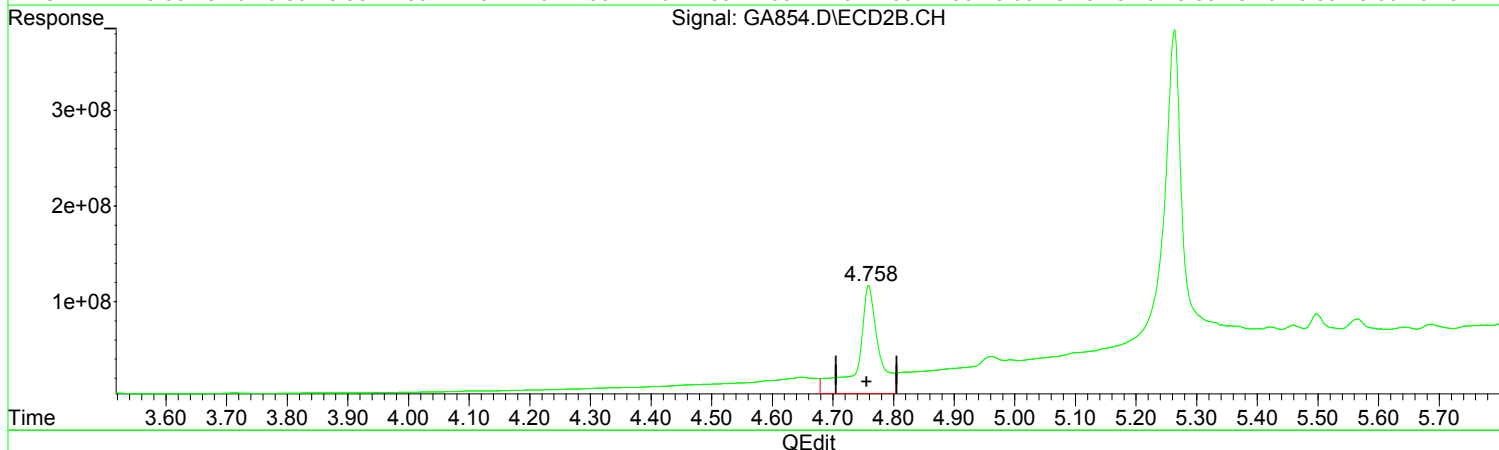
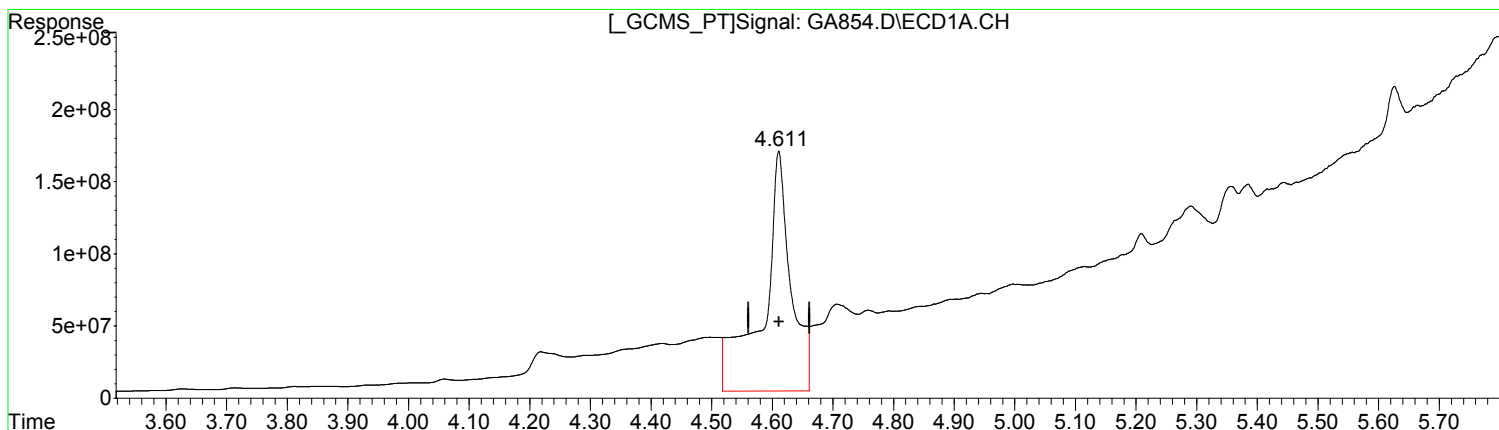
(1) SURR1, TCMX #2 (S)  
4.758min 69.921 ug/l m  
response 1325447544

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA854.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:34 pm  
Operator : M.Pedro  
Sample : RQ1801536-06  
Misc : 308673  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.611min 211.258 ug/l  
response 5324167303

(1) SURR1, TCMX #2 (S)  
4.759min 142.087 ug/l  
response 2693452543

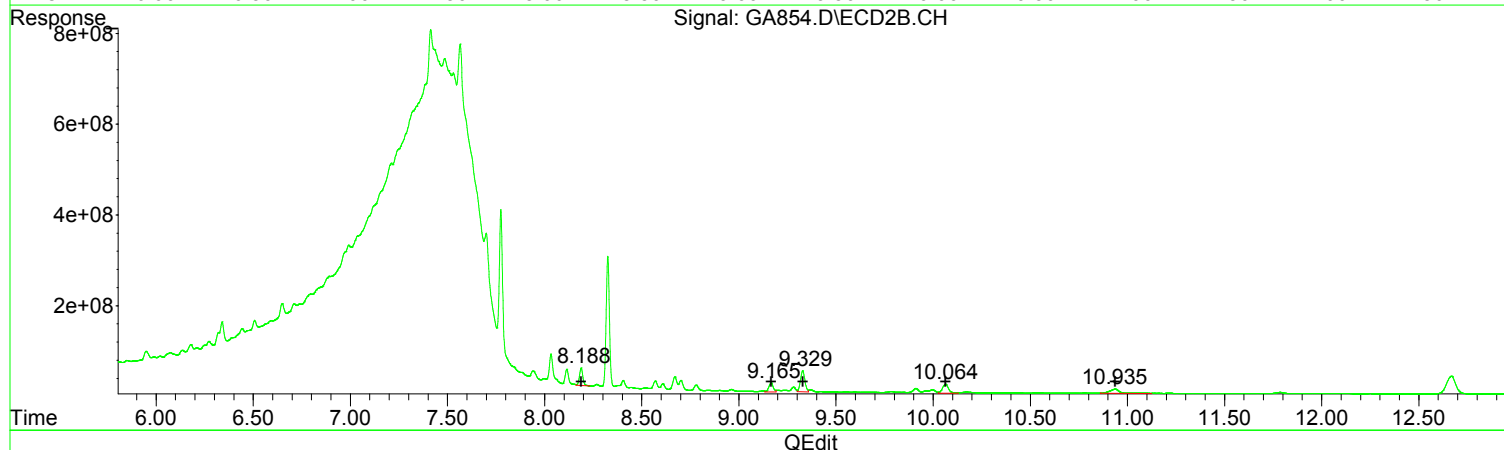
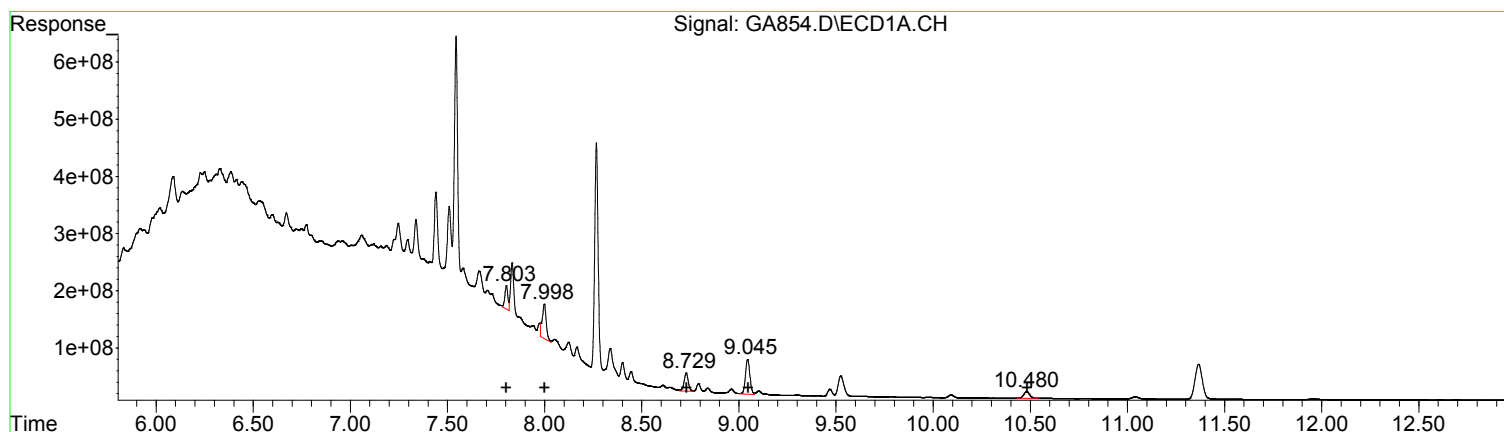
Manual Integration:  
Before  
02/27/18



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA854.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:34 pm  
Operator : M.Pedro  
Sample : RQ1801536-06  
Misc : 308673  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)		
R.T.	Response	Conc
7.80	453681115	355.00
8.00	853954993	539.54
8.73	488730574	439.70
9.04	962095729	464.01
10.48	250254158	496.69

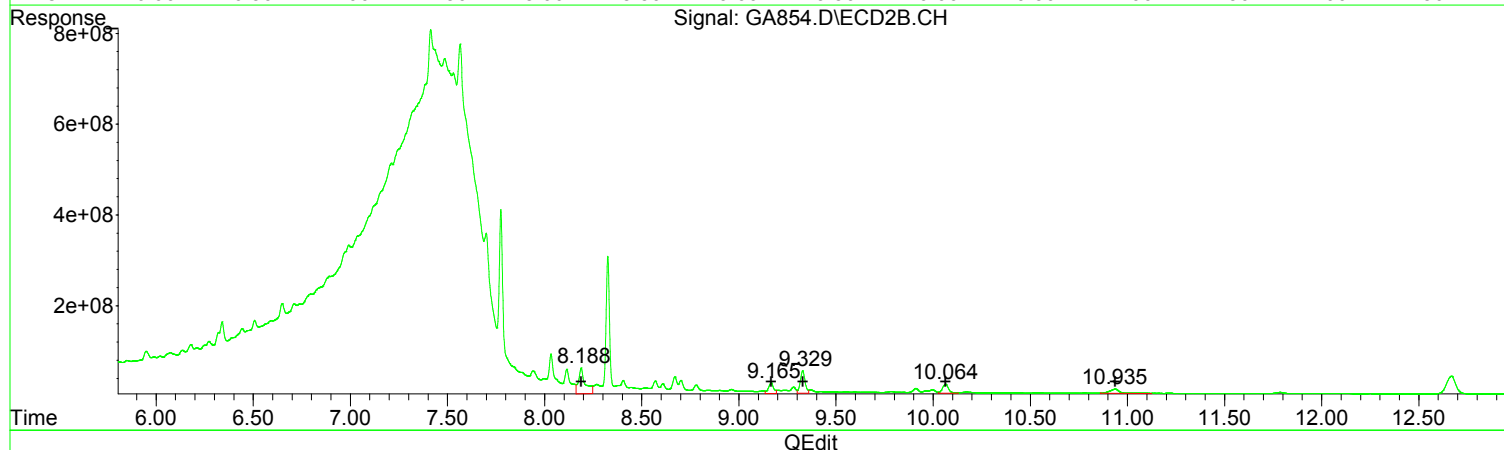
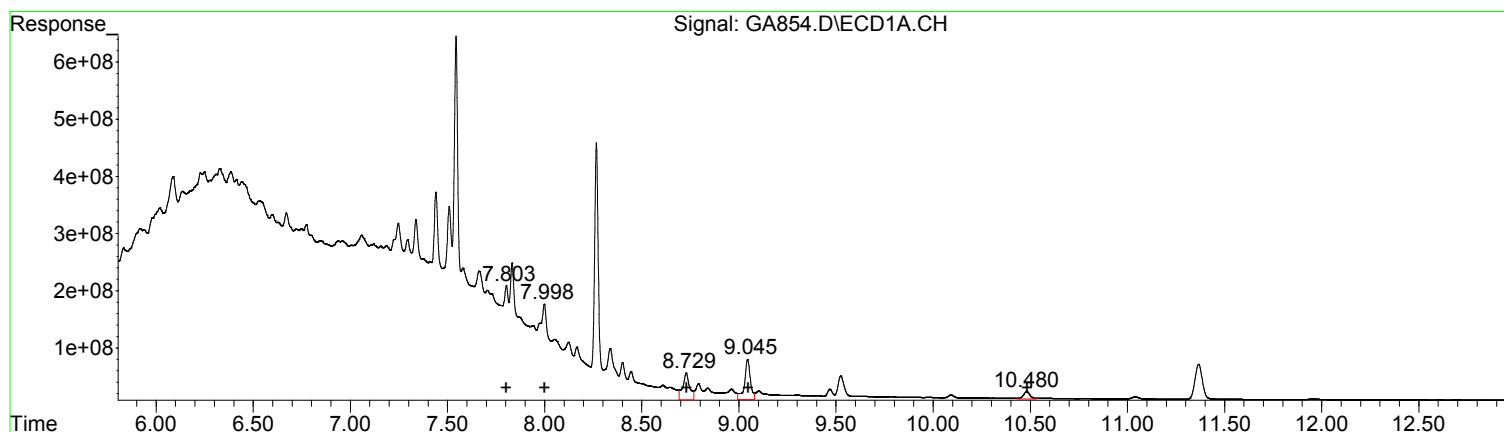
Manual Integration:  
After  
Poor integration.  
02/27/18

(33) PCB 1260 #2 (L7c)		
R.T.	Response	Conc
8.19	474740762	398.01
9.17	313745597	431.25
9.33	730390473	420.59
10.06	432514418	446.24
10.94	303145554	498.77

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA854.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:34 pm  
Operator : M.Pedro  
Sample : RQ1801536-06  
Misc : 308673  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)		
R.T.	Response	Conc
7.80	3678490853	2878.34
8.00	4322433620	2730.99
8.73	1177537506	1059.41
9.05	1475758546	711.74
10.48	292617864	580.77

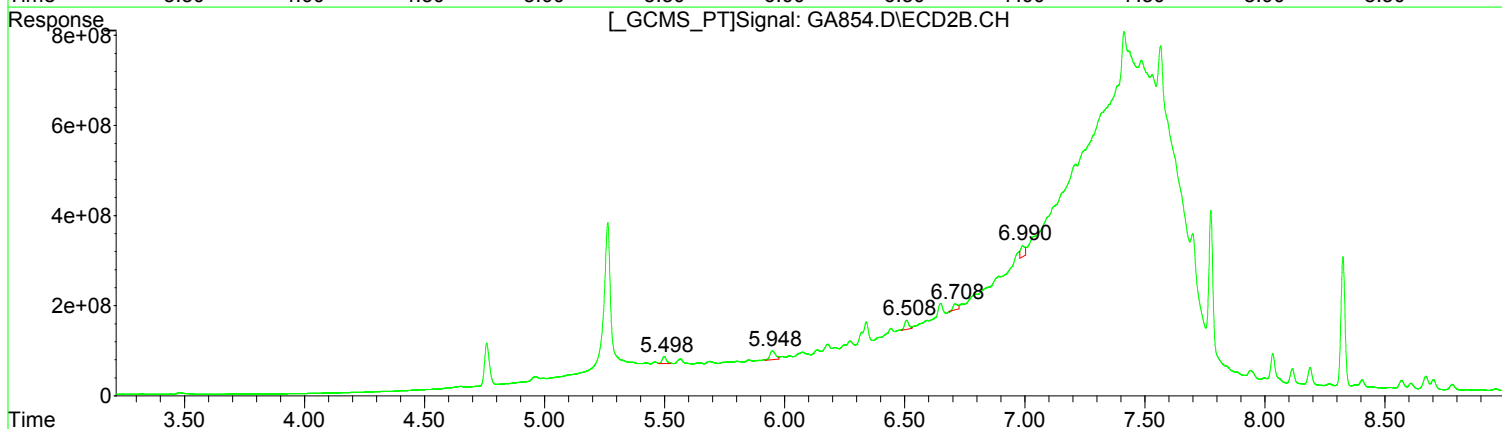
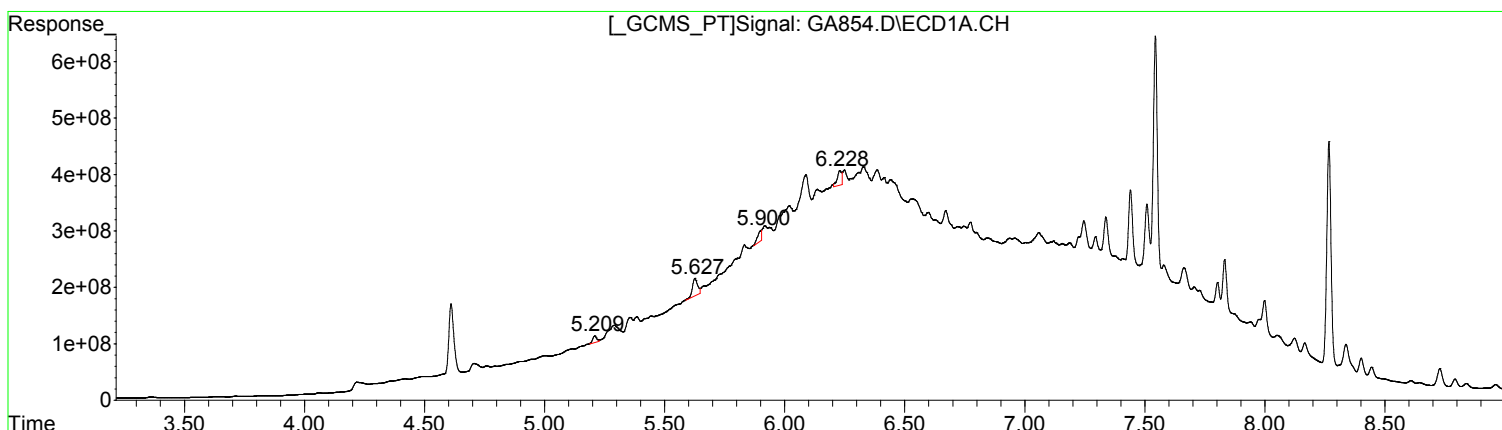
Manual Integration:  
Before  
02/27/18

(33) PCB 1260 #2 (L7c)		
R.T.	Response	Conc
8.19	1374974861	1152.75
9.17	434305847	596.96
9.33	864633249	497.90
10.06	432514418	446.24
10.94	303145554	498.77

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA854.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 5:34 pm  
 Operator : M.Pedro  
 Sample : RQ1801536-06  
 Misc : 308673  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:12 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	141944221	298.71
5.63	463178471	476.27
0.00	0	0.00
5.90	219938088	534.43
6.23	329137269	364.90

(3) PCB 1016 #2 (L1c)

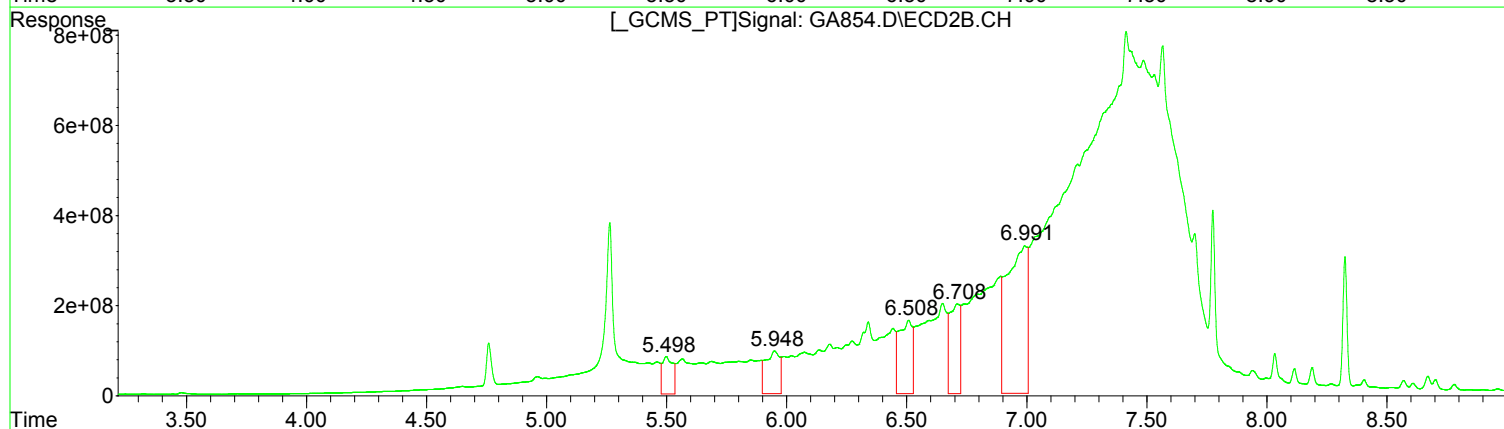
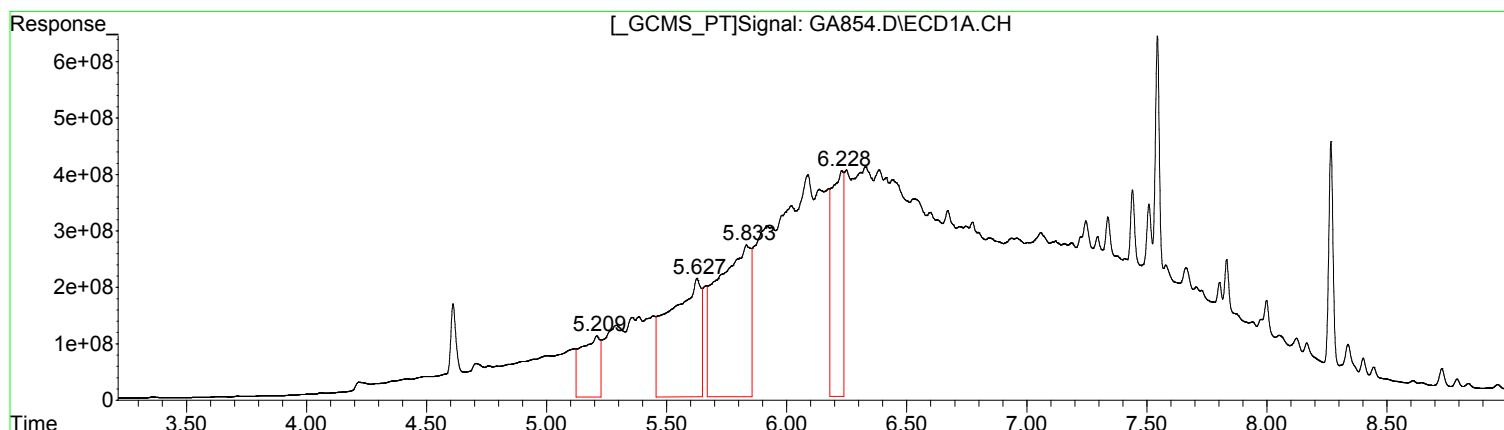
R.T.	Response	Conc
5.50	180075957	547.27
5.95	317239466	417.20
6.51	251411579	529.29
6.71	172943000	535.15
6.99	297762671	540.61

Manual Integration:  
 After  
 Poor integration.  
 02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA854.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:34 pm  
Operator : M.Pedro  
Sample : RQ1801536-06  
Misc : 308673  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.21	5919804838	12457.57
5.63	19355011191	19901.98
5.83	25721585608	94089.36
0.00	0	0.00
6.23	13421048595	14879.40

Manual Integration:  
Before  
02/27/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	2482818360	7545.53
5.95	3856022435	5071.03
6.51	6204297296	13061.78
6.71	5971722523	18478.77
6.99	19280979266	35005.99

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA854.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 5:34 pm  
 Operator : M.Pedro  
 Sample : RQ1801536-06  
 Misc : 308673  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:12 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.758	1811.0E6	1325.4E6	71.858m	69.921m
Spiked Amount	100.000	Range	30 - 150	Recovery	= 71.86%	69.92%
2) S SURR2, Dec...	11.367	12.668	1650.6E6	1286.2E6	81.116	78.347
Spiked Amount	100.000	Range	30 - 150	Recovery	= 81.12%	78.35%
Target Compounds						
3) L1c PCB 1016	5.209	5.497	141.9E6	180.1E6	298.706m	547.269m#
4) L1c PCB 1016{2}	5.627	5.948	463.2E6	317.2E6	476.268m	417.199m
5) L1c PCB 1016{3}	0.000	6.508	0	251.4E6	N.D. d	529.291m#
6) L1c PCB 1016{4}	5.900	6.708	219.9E6	172.9E6	534.432m	535.151m
7) L1c PCB 1016{5}	6.228	6.990	329.1E6	297.8E6	364.902m	540.609m#
Sum PCB 1016			1154.2E6	1219.4E6	1674.307	2569.520
Average PCB 1016					418.577	513.904
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.188	453.7E6	474.7E6	354.995m	398.012m
34) L7c PCB 1260{2}	7.998	9.165	854.0E6	313.7E6	539.545m	431.249m
35) L7c PCB 1260{3}	8.729	9.329	488.7E6	730.4E6	439.703m	420.595m
36) L7C PCB 1260{4}	9.045	10.064	962.1E6	432.5E6	464.009m	446.236
37) L7C PCB 1260{5}	10.480	10.936	250.3E6	303.1E6	496.690m	498.769
Sum PCB 1260			3008.7E6	2254.5E6	2294.942	2194.860
Average PCB 1260					458.988	438.972
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

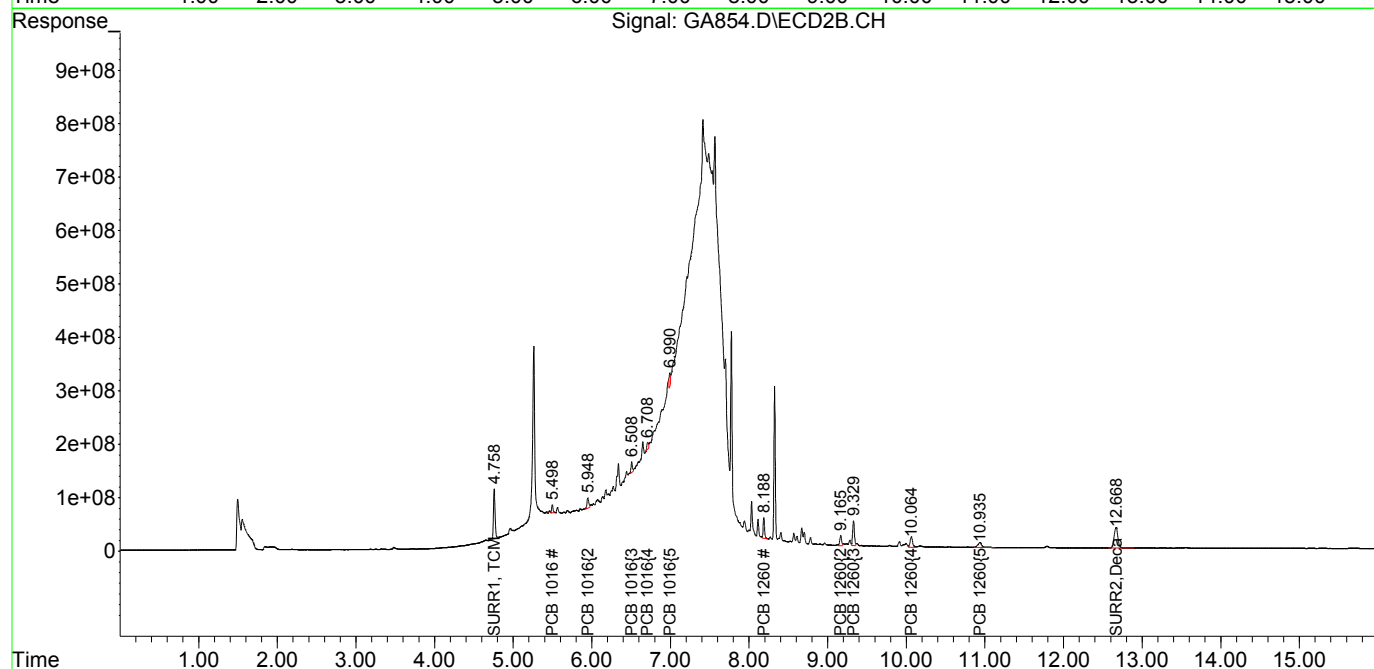
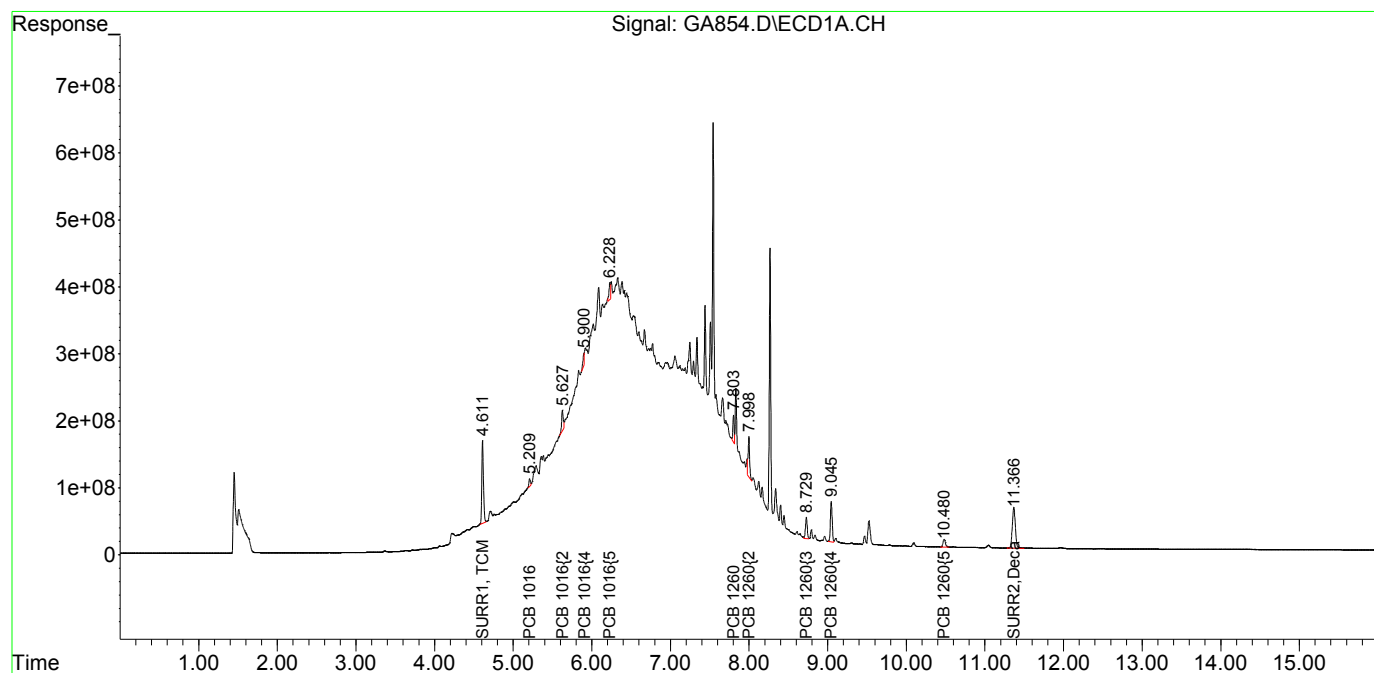
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA854.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:34 pm  
Operator : M.Pedro  
Sample : RQ1801536-06  
Misc : 308673  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

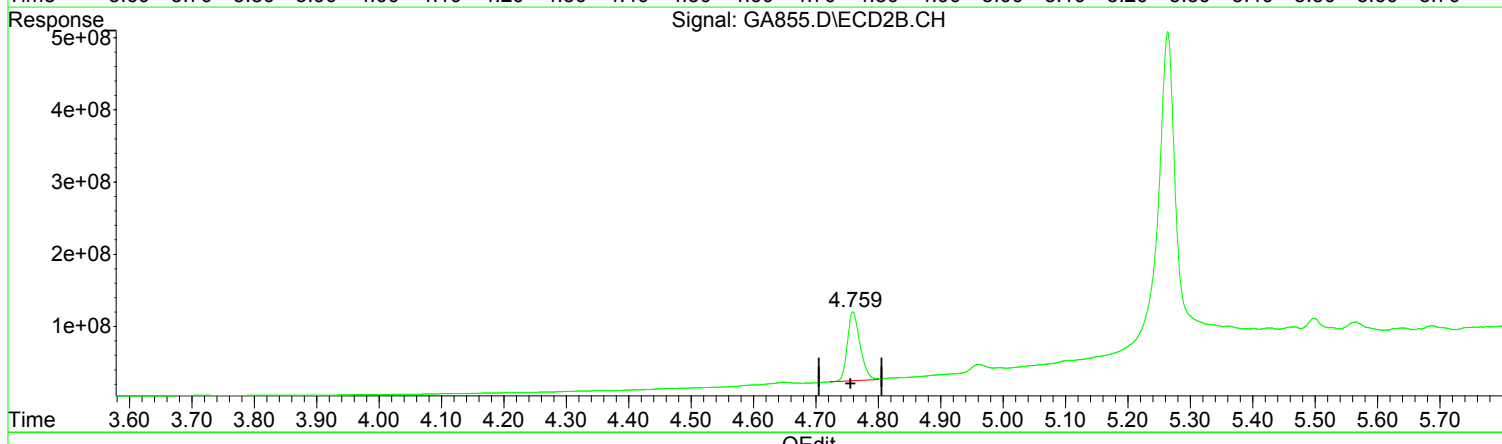
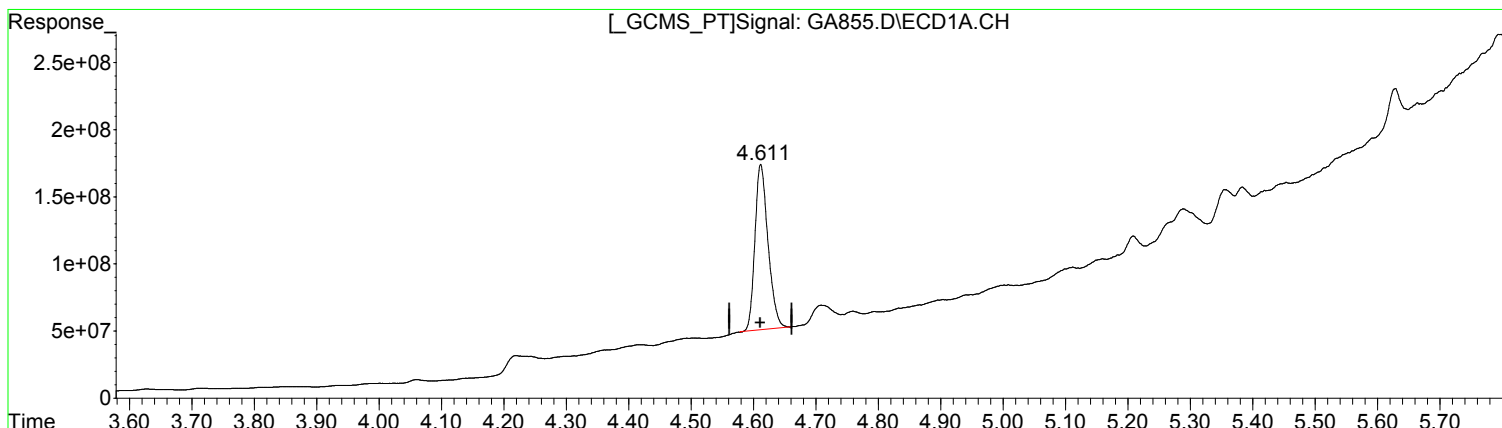
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.611min 71.227 ug/l m  
response 1795068637

(1) SURR1, TCMX #2 (S)  
4.759min 70.831 ug/l m  
response 1342697068

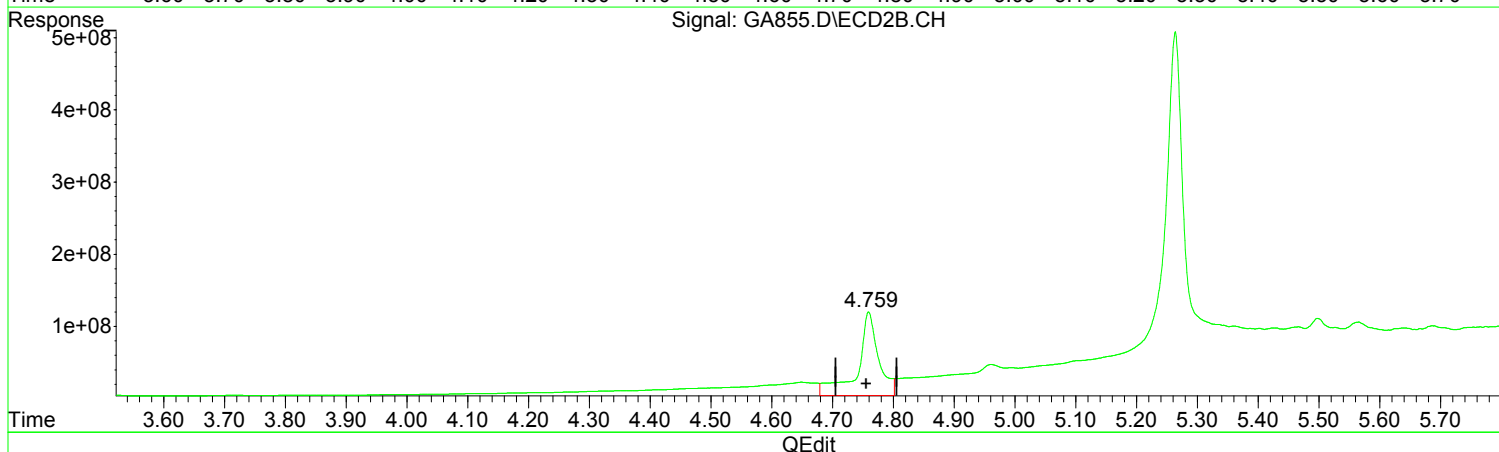
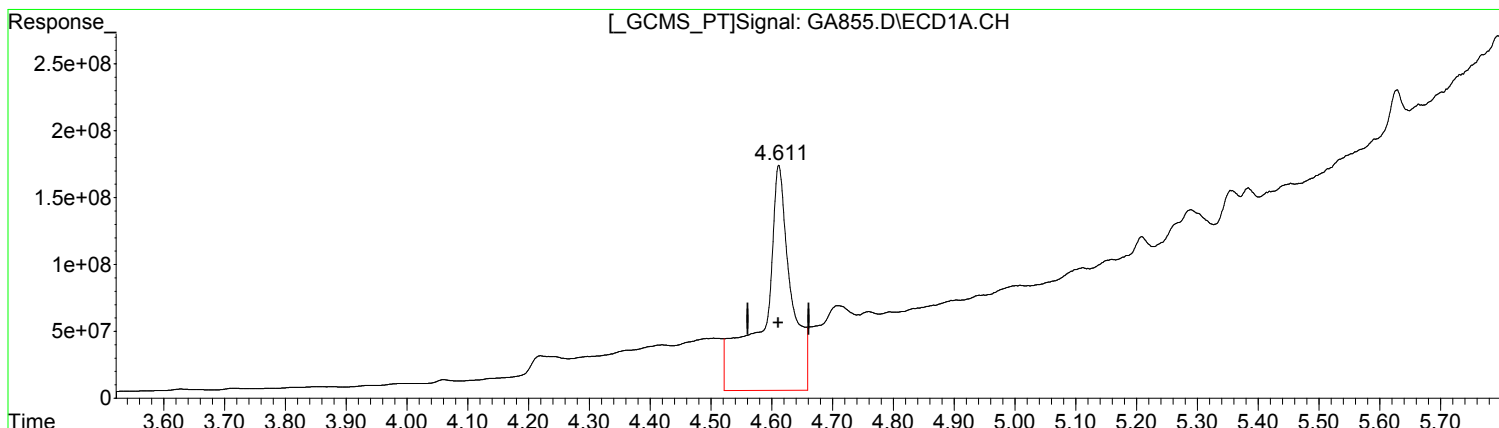
Manual Integration:  
After  
Poor integration.  
02/27/18



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.612min 213.419 ug/l  
response 5378610019

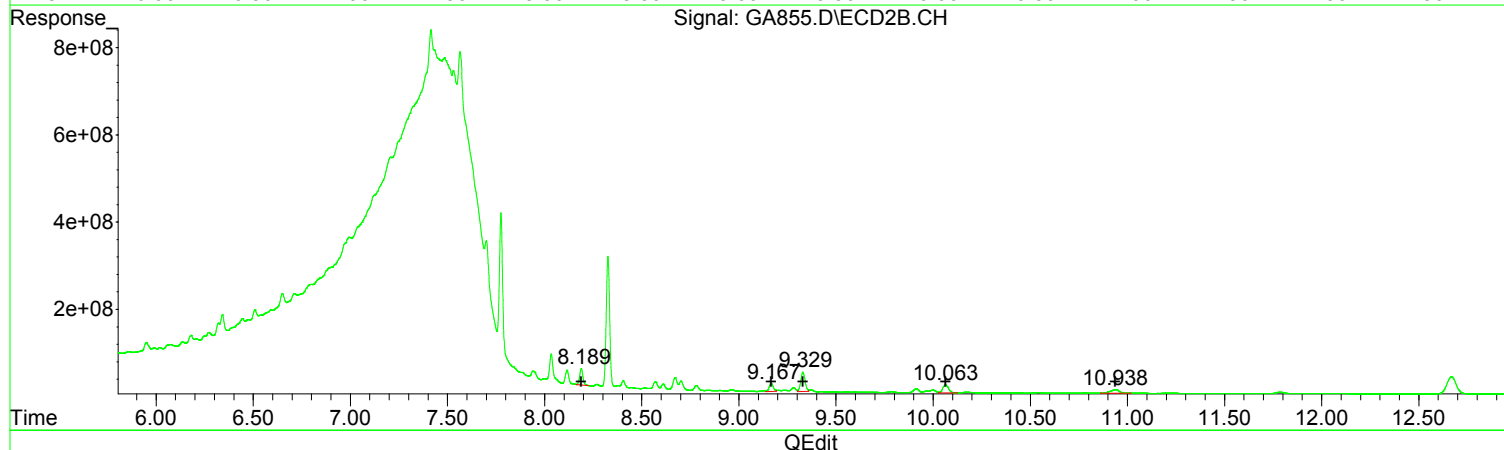
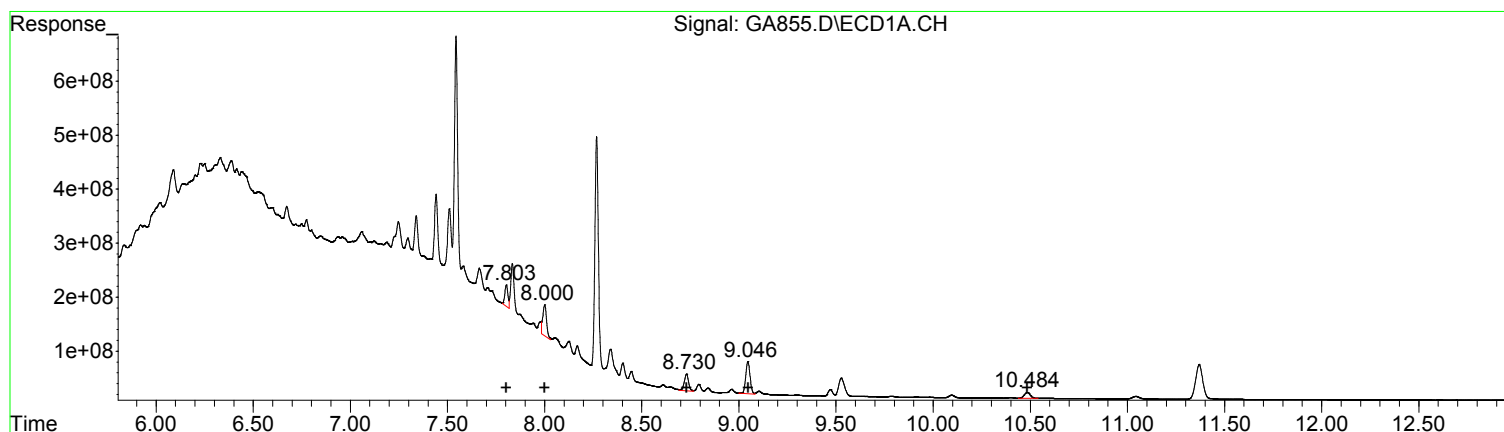
(1) SURR1, TCMX #2 (S)  
4.759min 147.419 ug/l  
response 2794524679

Manual Integration:  
Before  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)

R.T.	Response	Conc
7.80	435247257	340.57
8.00	766838061	484.50
8.73	486730197	437.90
9.05	926133208	446.66
10.48	233180820	462.80

Manual Integration:  
After  
Poor integration.  
02/27/18

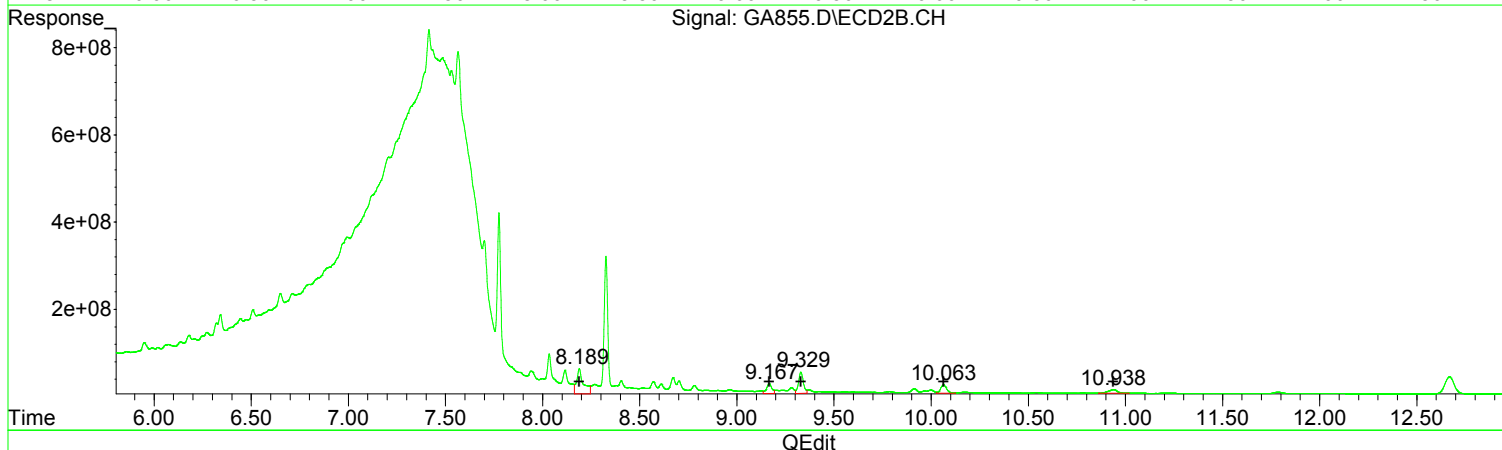
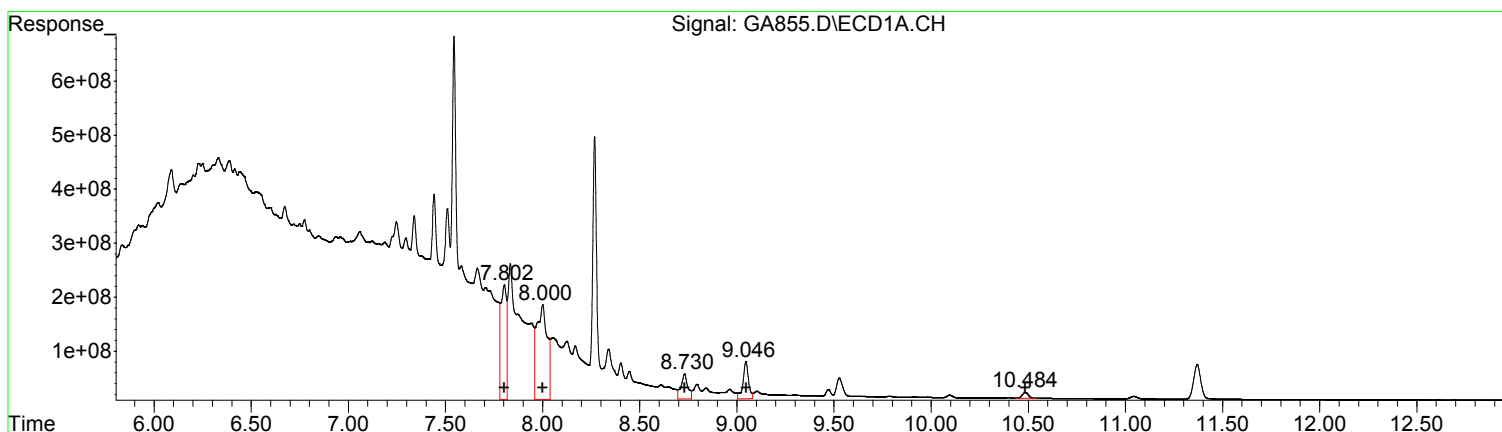
(33) PCB 1260 #2 (L7c)

R.T.	Response	Conc
8.19	451074292	378.17
9.17	279691716	384.44
9.33	686020986	395.04
10.06	370554693	382.31
10.94	275290764	452.94

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)		
R.T.	Response	Conc
7.80	4255505337	3329.84
8.00	6578171422	4156.21
8.73	1127754244	1014.62
9.05	1354535671	653.28
10.48	233180820	462.80

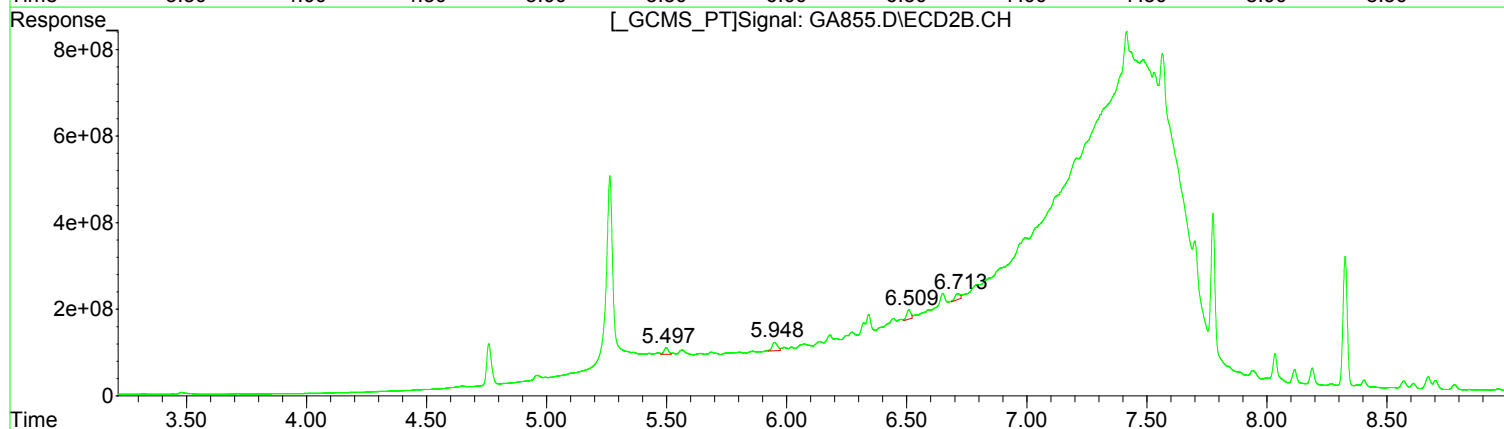
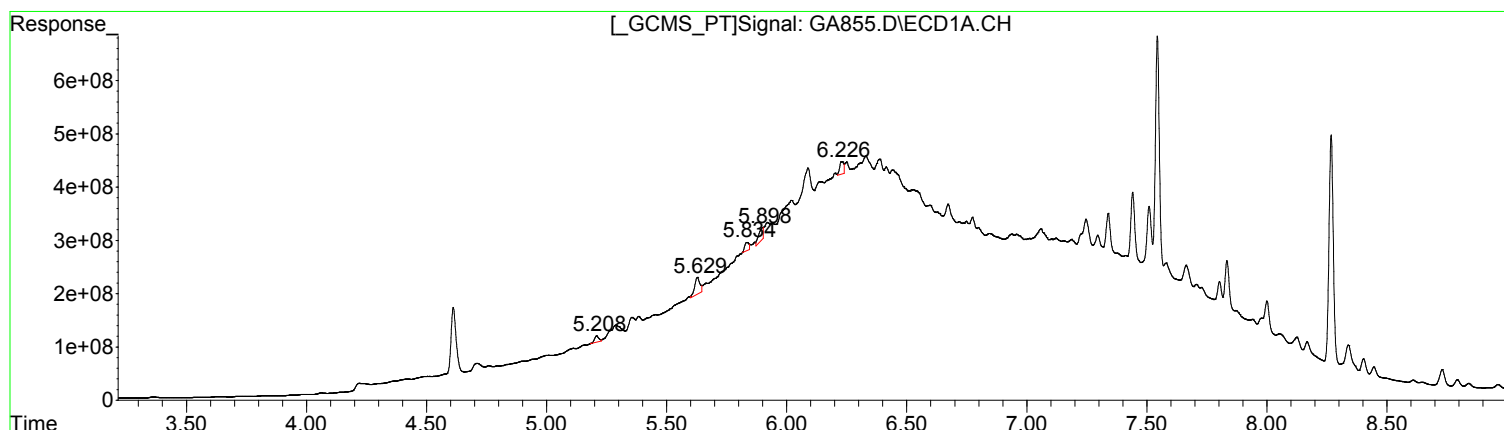
Manual Integration:  
Before  
02/27/18

(33) PCB 1260 #2 (L7c)		
R.T.	Response	Conc
8.19	1420561015	1190.97
9.17	435681732	598.85
9.33	845321874	486.78
10.06	414454701	427.60
10.94	275290764	452.94

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.21	145525187	306.24
5.63	483609934	497.28
5.83	184900312	676.36
5.90	322684437	784.10
6.23	266207643	295.13

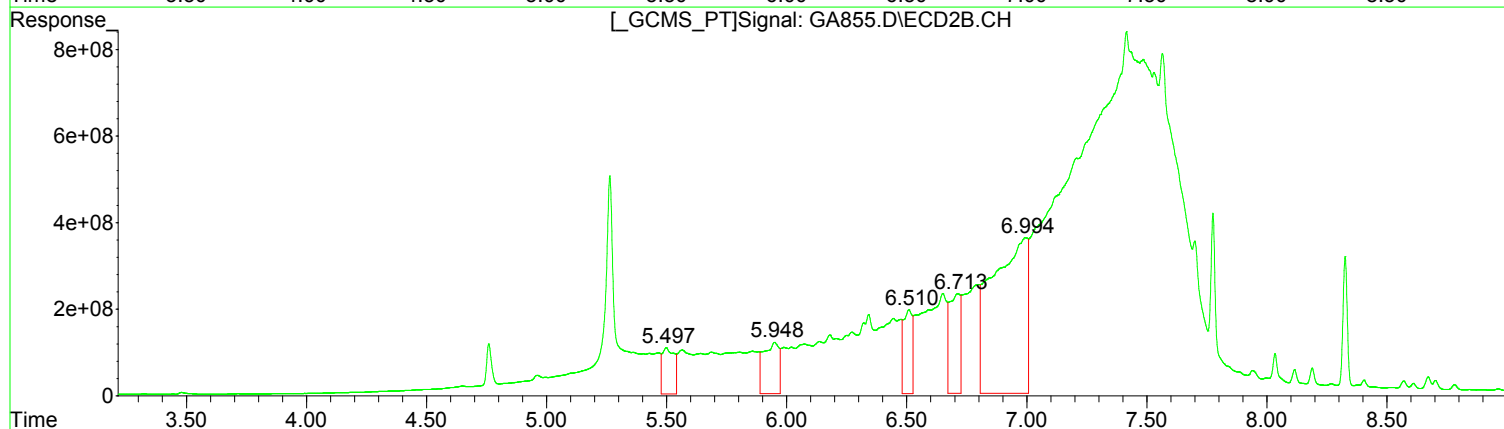
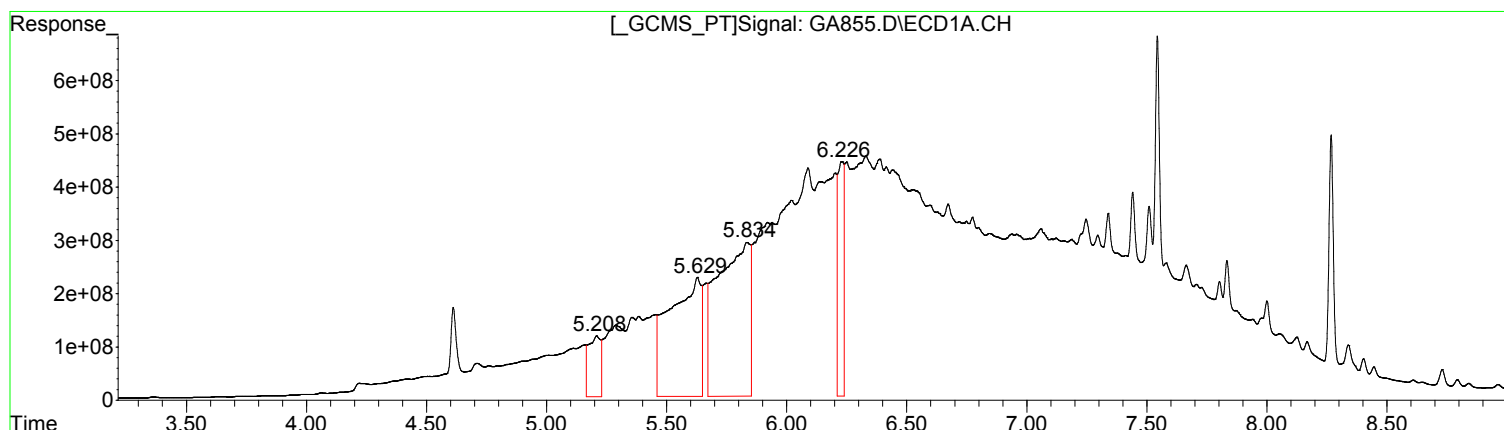
(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	197244752	599.45
5.95	301464543	396.45
6.51	255252437	537.38
6.71	198715220	614.90
0.00	0	0.00

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.21	4004666847	8427.38
5.63	20229632178	20801.32
5.83	27007376226	98792.77
0.00	0	0.00
6.23	7703059973	8540.09

Manual Integration:  
Before  
02/27/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	3694411210	11227.69
5.95	5314307904	6988.81
6.51	4866251094	10244.82
6.71	7177034027	22208.47
6.99	36209210009	65740.39

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA855.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 5:54 pm  
 Operator : M.Pedro  
 Sample : RQ1801536-07  
 Misc : 308673  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:16 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.759	1795.1E6	1342.7E6	71.227m	70.831m
Spiked Amount	100.000	Range	30 - 150	Recovery =	71.23%	70.83%
2) S SURR2, Dec...	11.370	12.668	1686.9E6	1306.5E6	82.903	79.583
Spiked Amount	100.000	Range	30 - 150	Recovery =	82.90%	79.58%
Target Compounds						
3) L1c PCB 1016	5.208	5.497	145.5E6	197.2E6	306.242m	599.447m#
4) L1c PCB 1016{2}	5.629	5.948	483.6E6	301.5E6	497.277m	396.454m
5) L1c PCB 1016{3}	5.834	6.509	184.9E6	255.3E6	676.364m	537.378m
6) L1c PCB 1016{4}	5.898	6.713	322.7E6	198.7E6	784.097m	614.900m
7) L1c PCB 1016{5}	6.226	0.000	266.2E6	0	295.134m	N.D. d#
Sum PCB 1016			1402.9E6	952.7E6	2559.114	2148.178
Average PCB 1016					511.823	537.045
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.189	435.2E6	451.1E6	340.571m	378.170m
34) L7c PCB 1260{2}	8.000	9.167	766.8E6	279.7E6	484.503m	384.441m
35) L7c PCB 1260{3}	8.730	9.329	486.7E6	686.0E6	437.903m	395.044m
36) L7c PCB 1260{4}	9.046	10.063	926.1E6	370.6E6	446.665m	382.311m
37) L7c PCB 1260{5}	10.484	10.938	233.2E6	275.3E6	462.804	452.939
Sum PCB 1260			2848.1E6	2062.6E6	2172.446	1992.906
Average PCB 1260					434.489	398.581
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

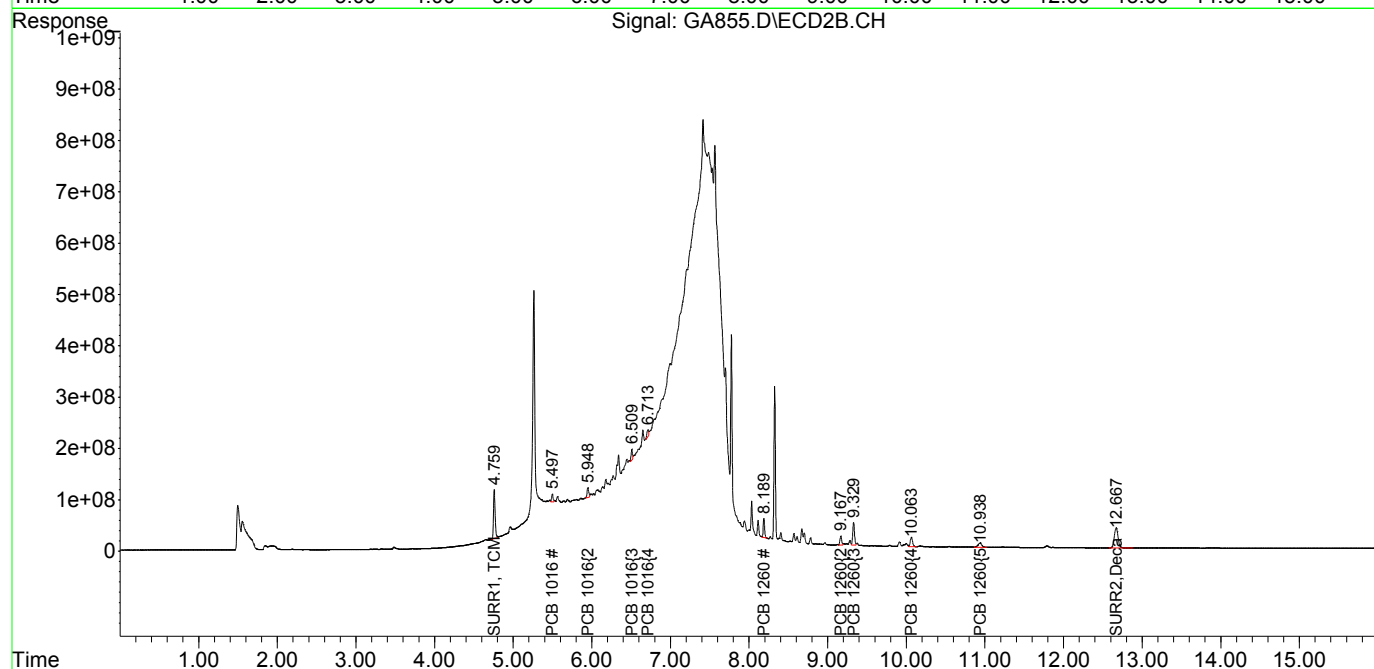
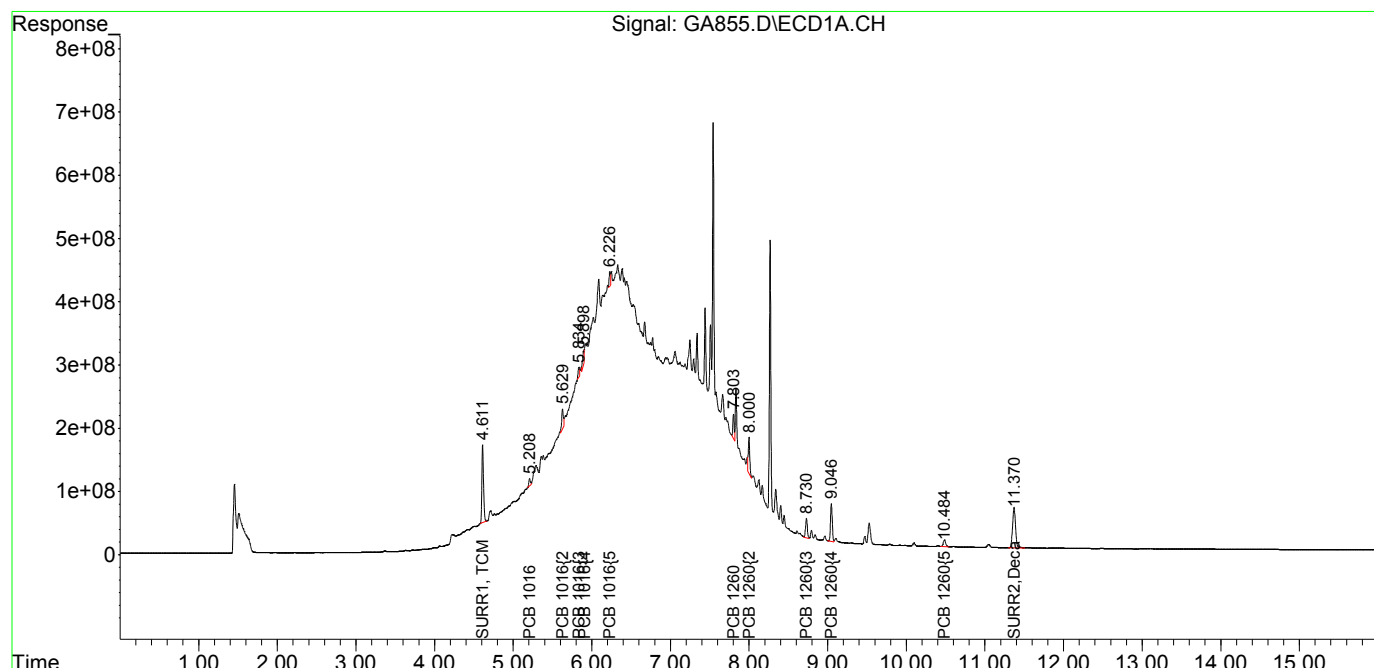
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA855.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 5:54 pm  
Operator : M.Pedro  
Sample : RQ1801536-07  
Misc : 308673  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:16 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

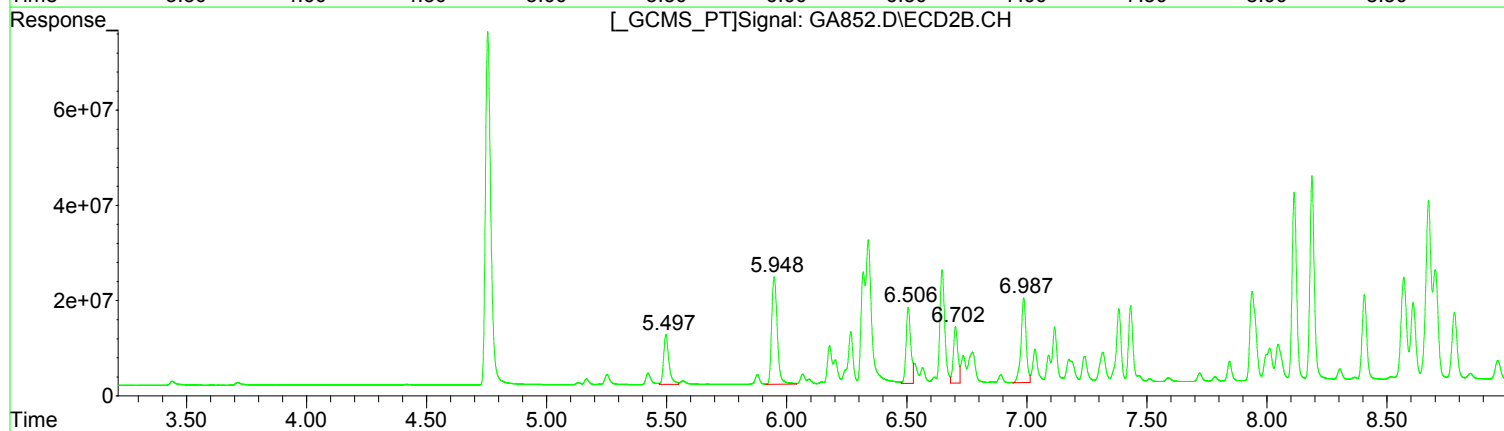
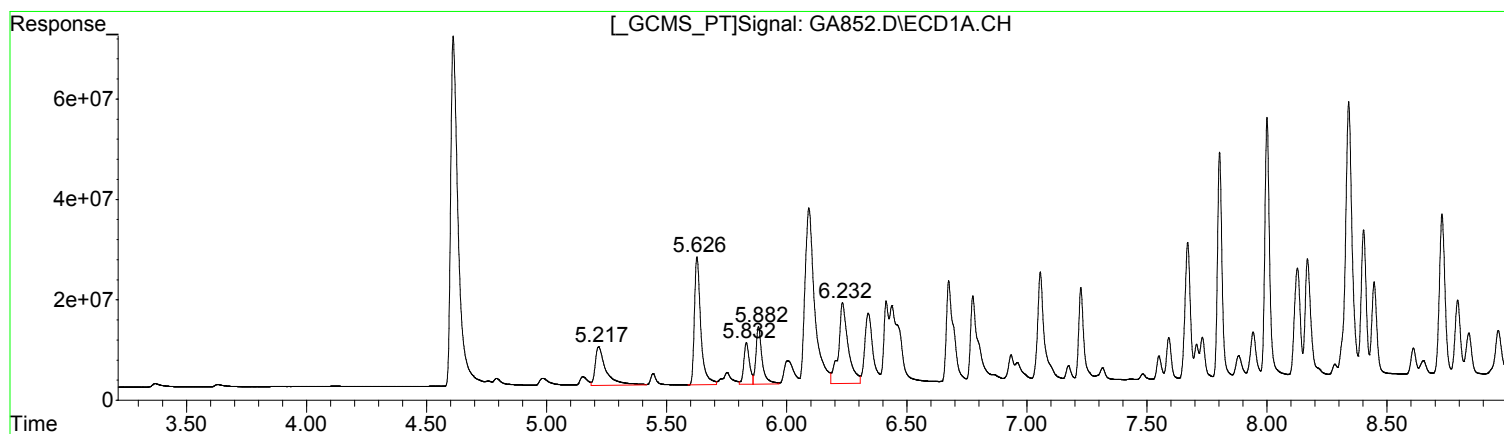




Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA852.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 4:55 pm  
Operator : M.Pedro  
Sample : CCV61  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:04 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	241154654	507.48
5.63	470383801	483.68
5.83	137161512	501.74
5.88	205646199	499.70
6.23	455529963	505.03

(3) PCB 1016 #2 (L1c)

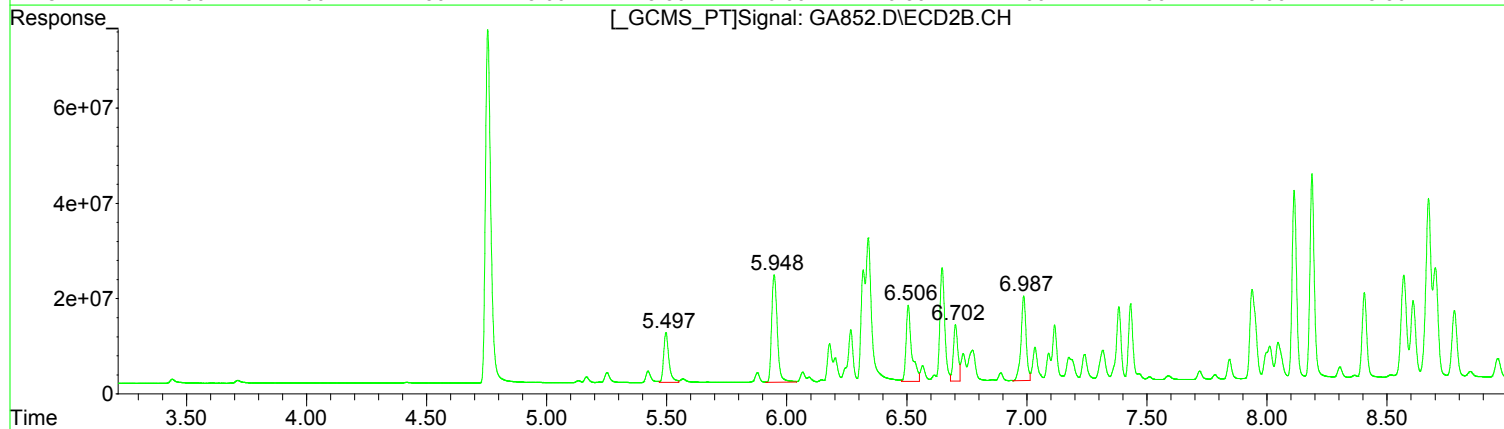
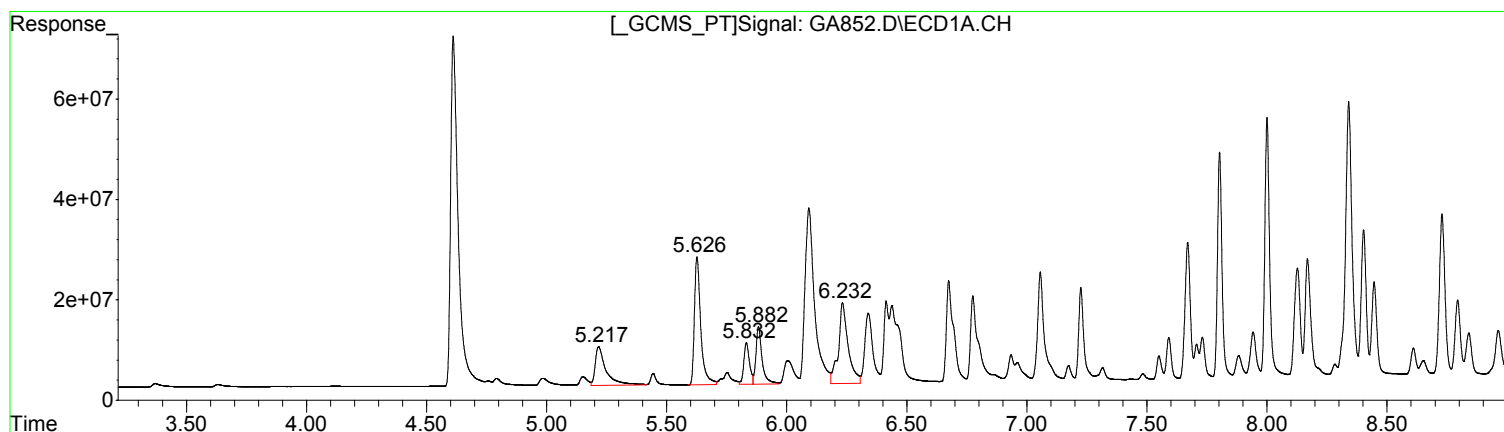
R.T.	Response	Conc
5.50	159075446	483.45
5.95	366081463	481.43
6.51	213144424	448.73
6.70	155410903	480.90
6.99	261980956	475.65

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA852.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 4:55 pm  
Operator : M.Pedro  
Sample : CCV61  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:04 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	241154654	507.48
5.63	470383801	483.68
5.83	137161512	501.74
5.88	205646199	499.70
6.23	455529963	505.03

Manual Integration:  
Before  
02/27/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	159075446	483.45
5.95	366081463	481.43
6.51	260286596	547.98
6.70	155410903	480.90
6.99	261980956	475.65

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA852.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 4:55 pm  
Operator : M.Pedro  
Sample : CCV61  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:04 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1, TCMX	25.202	25.563 E6	-1.4	99	0.00
2 S SURR2,Decachlorobiphenyl	20.348	19.563 E6	3.9	100	0.00
3 L1c PCB 1016	475.197	482.309 E3	-1.5	98	0.00
4 L1c PCB 1016{2}	972.517	940.768 E3	3.3	100	0.00
5 L1c PCB 1016{3}	273.374	274.323 E3	-0.3	99	0.00
6 L1c PCB 1016{4}	411.536	411.292 E3	0.1	101	0.00
7 L1c PCB 1016{5}	901.988	911.060 E3	-1.0	101	0.00
33 L7c PCB 1260	1.278	1.226 E6	4.1	100	0.00
34 L7c PCB 1260{2}	1.583	1.518 E6	4.1	101	0.00
35 L7c PCB 1260{3}	1.112	1.111 E6	0.1	101	0.00
36 L7C PCB 1260{4}	2.073	2.074 E6	-0.0	101	0.00
37 L7C PCB 1260{5}	503.843	499.951 E3	0.8	100	0.00

Signal #2

1 S SURR1, TCMX	18.956	19.509 E6	-2.9	102	0.00
2 S SURR2,Decachlorobiphenyl	16.417	15.657 E6	4.6	100	-0.02
3 L1c PCB 1016	329.045	318.151 E3	3.3	100	0.00
4 L1c PCB 1016{2}	760.403	732.163 E3	3.7	100	0.00
5 L1c PCB 1016{3}	474.996	426.289 E3	10.3	96	0.00
6 L1c PCB 1016{4}	323.167	310.822 E3	3.8	99	0.00
7 L1c PCB 1016{5}	550.791	523.962 E3	4.9	97	0.00
33 L7c PCB 1260	1.193	1.129 E6	5.4	99	0.00
34 L7c PCB 1260{2}	727.528	691.749 E3	4.9	97	-0.01
35 L7c PCB 1260{3}	1.737	1.724 E6	0.7	100	0.00
36 L7C PCB 1260{4}	969.249	944.902 E3	2.5	99	-0.01
37 L7C PCB 1260{5}	607.788	595.522 E3	2.0	100	-0.01

Evaluate Continuing Calibration Report - Not Found

8 L2c PCB 1221	197.459	0.000 E3	100.0#	0#	-4.11#
9 L2c PCB 1221{2}	285.978	0.000 E3	100.0#	0#	-4.98#
10 L2c PCB 1221{3}	160.087	0.000 E3	100.0#	0#	-5.15#
11 L2c PCB 1221{4}	724.108	0.000 E3	100.0#	0#	-5.21#
12 L2c PCB 1221{5}	97.921	0.000 E3	100.0#	0#	-5.63#
13 L3c PCB 1232	674.110	0.000 E3	100.0#	0#	-5.21#
14 L3c PCB 1232{2}	508.886	0.000 E3	100.0#	0#	-5.63#
15 L3c PCB 1232{3}	1012.977	0.000 E3	100.0#	0#	-6.09#
16 L3c PCB 1232{4}	475.434	0.000 E3	100.0#	0#	-6.24#
17 L3c PCB 1232{5}	400.159	0.000 E3	100.0#	0#	-6.68#
18 L4c PCB 1242	401.075	0.000 E3	100.0#	0#	-5.22#
19 L4c PCB 1242{2}	337.772	0.000 E3	100.0#	0#	-5.88#
20 L4c PCB 1242{3}	1.605	0.000 E6	100.0#	0#	-6.09#
21 L4c PCB 1242{4}	719.522	0.000 E3	100.0#	0#	-6.68#

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA852.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 4:55 pm  
Operator : M.Pedro  
Sample : CCV61  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:04 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
22 L4c PCB 1242{5}	672.438	0.000 E3	100.0#	0#	-6.78#
23 L5c PCB 1248	424.760	0.000 E3	100.0#	0#	-5.63#
24 L5c PCB 1248{2}	1.044	0.000 E6	100.0#	0#	-6.09#
25 L5c PCB 1248{3}	366.283	0.000 E3	100.0#	0#	-6.23#
26 L5c PCB 1248{4}	1.120	0.000 E6	100.0#	0#	-6.67#
27 L5c PCB 1248{5}	941.084	0.000 E3	100.0#	0#	-6.78#
28 L6c PCB 1254	490.748	0.000 E3	100.0#	0#	-7.49#
29 L6c PCB 1254{2}	763.463	0.000 E3	100.0#	0#	-7.55#
30 L6c PCB 1254{3}	1.654	0.000 E6	100.0#	0#	-7.66#
31 L6c PCB 1254{4}	873.666	0.000 E3	100.0#	0#	-7.81#
32 L6c PCB 1254{5}	427.264	0.000 E3	100.0#	0#	-8.72#
38 L8C PCB 1268	589.119	0.000 E3	100.0	0#	-8.40#
39 L8C PCB 1268{2}	736.470	0.000 E3	100.0	0#	-8.66#
40 L8C PCB 1268{3}	2.552	0.000 E6	100.0	0#	-9.79#
41 L8C PCB 1268{4}	661.760	0.000 E3	100.0	0#	-9.91#
42 L8C PCB 1268{5}	1.144	0.000 E6	100.0	0#	-10.49#
43 L9C PCB 1262	604.709	0.000 E3	100.0	0#	-7.67#
44 L9C PCB 1262{2}	871.669	0.000 E3	100.0	0#	-7.80#
45 L9C PCB 1262{3}	1.387	0.000 E6	100.0	0#	-8.40#
46 L9C PCB 1262{4}	1.928	0.000 E6	100.0	0#	-9.54#
47 L9C PCB 1262{5}	892.998	0.000 E3	100.0	0#	-10.49#

Signal #2

8 L2c PCB 1221	145.482	0.000 E3	100.0#	0#	-4.42#
9 L2c PCB 1221{2}	219.036	0.000 E3	100.0#	0#	-5.25#
10 L2c PCB 1221{3}	140.879	0.000 E3	100.0#	0#	-5.42#
11 L2c PCB 1221{4}	436.978	0.000 E3	100.0#	0#	-5.50#
12 L2c PCB 1221{5}	81.306	0.000 E3	100.0#	0#	-5.57#
13 L3c PCB 1232	120.503	0.000 E3	100.0#	0#	-5.42#
14 L3c PCB 1232{2}	419.131	0.000 E3	100.0#	0#	-5.50#
15 L3c PCB 1232{3}	420.034	0.000 E3	100.0#	0#	-5.95#
16 L3c PCB 1232{4}	227.113	0.000 E3	100.0#	0#	-7.25#
17 L3c PCB 1232{5}	278.810	0.000 E3	100.0#	0#	-7.31#
18 L4c PCB 1242	272.153	0.000 E3	100.0#	0#	-5.50#
19 L4c PCB 1242{2}	608.768	0.000 E3	100.0#	0#	-5.95#
20 L4c PCB 1242{3}	460.575	0.000 E3	100.0#	0#	-6.99#
21 L4c PCB 1242{4}	494.819	0.000 E3	100.0#	0#	-7.31#
22 L4c PCB 1242{5}	415.255	0.000 E3	100.0#	0#	-7.59#
23 L5c PCB 1248	324.905	0.000 E3	100.0#	0#	-5.95#
24 L5c PCB 1248{2}	641.593	0.000 E3	100.0#	0#	-6.65#
25 L5c PCB 1248{3}	389.215	0.000 E3	100.0#	0#	-6.71#
26 L5c PCB 1248{4}	658.818	0.000 E3	100.0#	0#	-6.99#
27 L5c PCB 1248{5}	410.103	0.000 E3	100.0#	0#	-7.12#

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA852.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 4:55 pm  
 Operator : M.Pedro  
 Sample : CCV61  
 Misc : AR1660M  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:04 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
28 L6c PCB 1254	812.320	0.000 E3	100.0#	0#	-7.44#
29 L6c PCB 1254{2}	633.189	0.000 E3	100.0#	0#	-7.85#
30 L6c PCB 1254{3}	919.016	0.000 E3	100.0#	0#	-8.06#
31 L6c PCB 1254{4}	984.494	0.000 E3	100.0#	0#	-8.68#
32 L6c PCB 1254{5}	483.901	0.000 E3	100.0#	0#	-9.24#
38 L8C PCB 1268	500.757	0.000 E3	100.0	0#	-8.71#
39 L8C PCB 1268{2}	590.796	0.000 E3	100.0	0#	-9.13#
40 L8C PCB 1268{3}	2.090	0.000 E6	100.0	0#	-10.55#
41 L8C PCB 1268{4}	530.250	0.000 E3	100.0	0#	-10.79#
42 L8C PCB 1268{5}	958.003	0.000 E3	100.0	0#	-10.95#
43 L9C PCB 1262	471.311	0.000 E3	100.0	0#	-7.94#
44 L9C PCB 1262{2}	784.984	0.000 E3	100.0	0#	-8.19#
45 L9C PCB 1262{3}	1.173	0.000 E6	100.0	0#	-8.71#
46 L9C PCB 1262{4}	809.686	0.000 E3	100.0	0#	-9.92#
47 L9C PCB 1262{5}	1.015	0.000 E6	100.0	0#	-10.95#

(#) = Out of Range

SPCC's out = 0 CCC's out = 50

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA852.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 4:55 pm  
 Operator : M.Pedro  
 Sample : CCV61  
 Misc : AR1660M  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:04 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.755	1533.8E6	1170.5E6	60.859	61.749
Spiked Amount	100.000	Range	30 - 150	Recovery	= 60.86%	61.75%
2) S SURR2, Dec...	11.366	12.665	1173.8E6	939.4E6	57.684	57.223
Spiked Amount	100.000	Range	30 - 150	Recovery	= 57.68%	57.22%
Target Compounds						
3) L1c PCB 1016	5.217	5.497	241.2E6	159.1E6	507.483	483.446
4) L1c PCB 1016{2}	5.626	5.948	470.4E6	366.1E6	483.677	481.431
5) L1c PCB 1016{3}	5.832	6.506	137.2E6	213.1E6	501.736	448.728m
6) L1c PCB 1016{4}	5.883	6.703	205.6E6	155.4E6	499.704	480.900
7) L1c PCB 1016{5}	6.233	6.987	455.5E6	262.0E6	505.029	475.645
Sum PCB 1016			1509.9E6	1155.7E6	2497.628	2370.151
Average PCB 1016					499.526	474.030
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.803	8.188	613.2E6	564.4E6	479.843	473.174
34) L7c PCB 1260{2}	8.000	9.164	759.1E6	345.9E6	479.644	475.410
35) L7c PCB 1260{3}	8.729	9.329	555.3E6	862.2E6	499.636	496.494
36) L7c PCB 1260{4}	9.048	10.066	1036.9E6	472.5E6	500.103	487.440
37) L7c PCB 1260{5}	10.483	10.935	250.0E6	297.8E6	496.138	489.909
Sum PCB 1260			3214.6E6	2542.7E6	2455.363	2422.428
Average PCB 1260					491.073	484.486
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

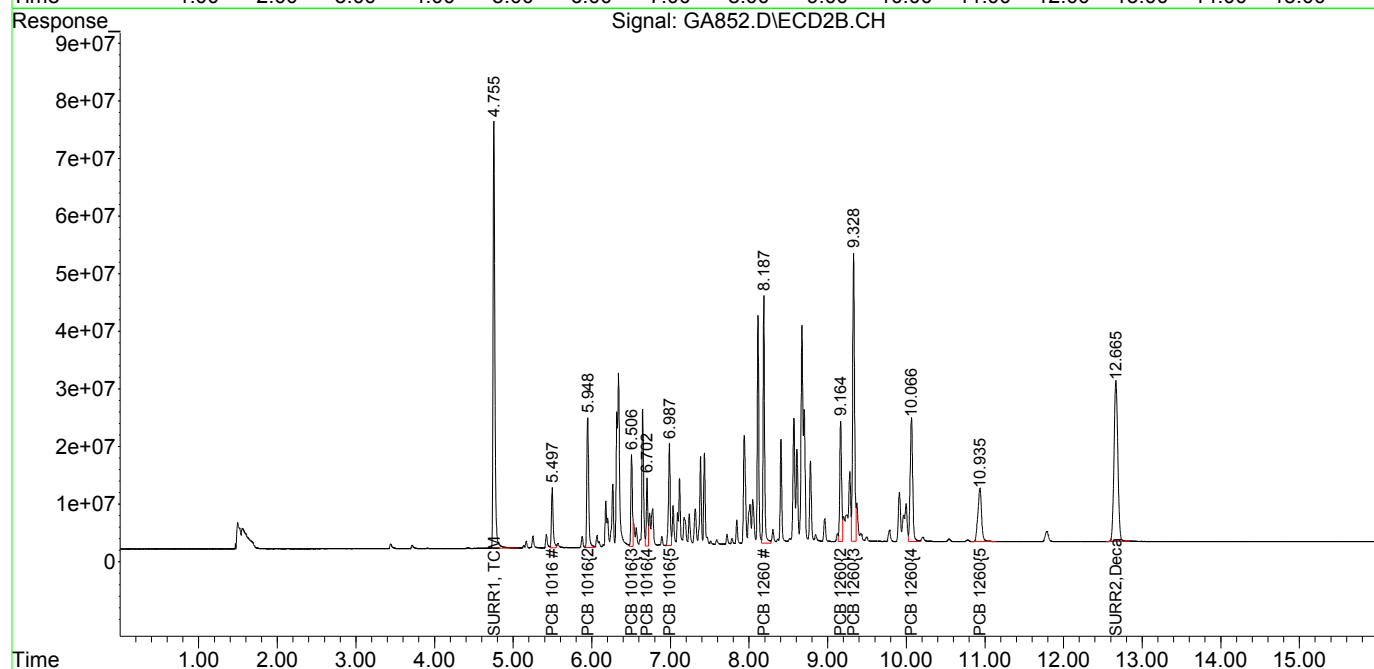
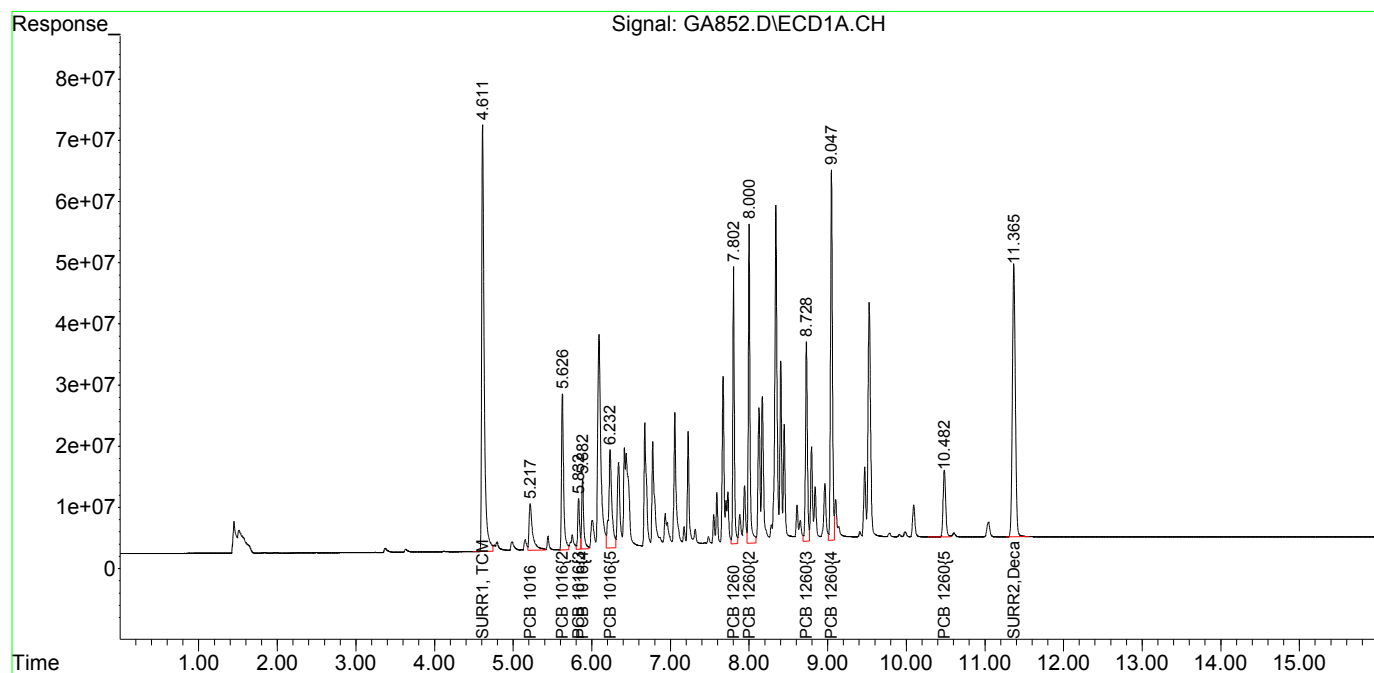
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA852.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 4:55 pm  
Operator : M.Pedro  
Sample : CCV61  
Misc : AR1660M  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:04 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

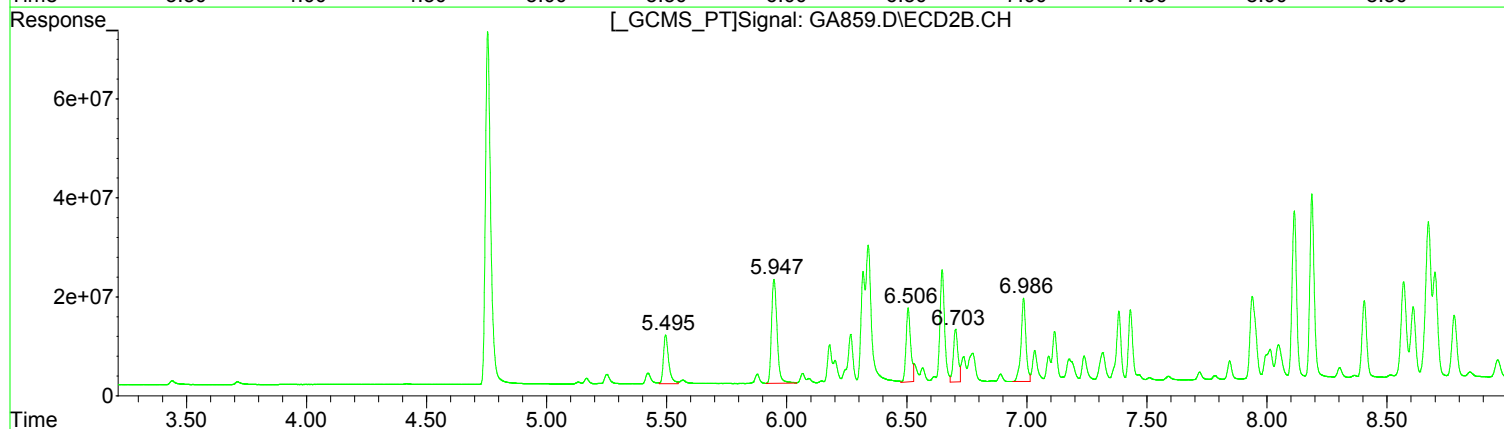
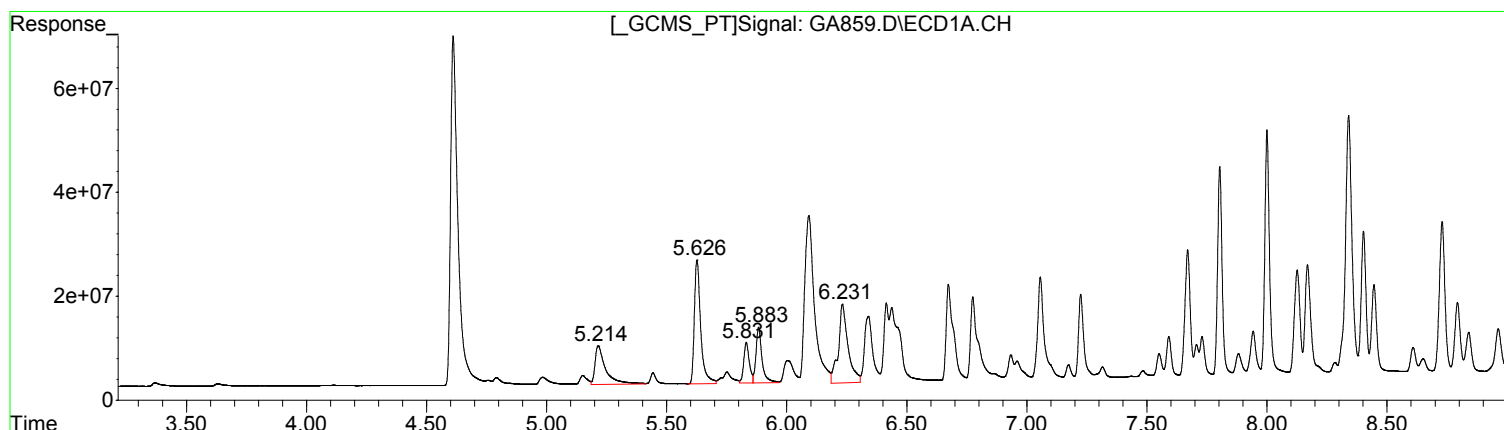




Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA859.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 7:12 pm  
Operator : M.Pedro  
Sample : CCV62  
Misc : AR1660  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	228546077	480.95
5.63	437251596	449.61
5.83	126470056	462.63
5.88	188594105	458.27
6.23	427688893	474.16

(3) PCB 1016 #2 (L1c)

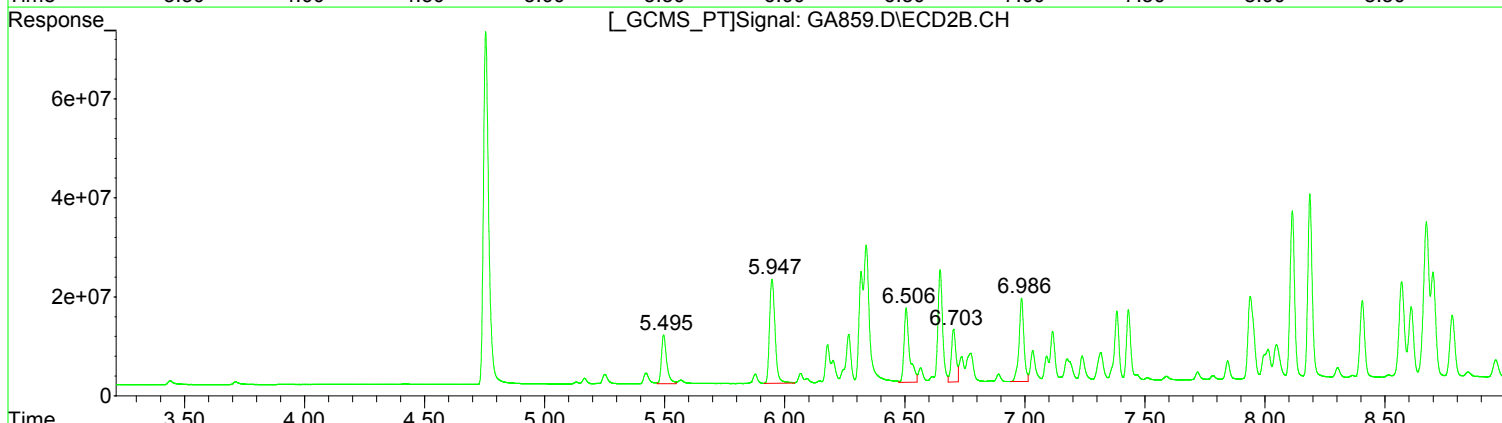
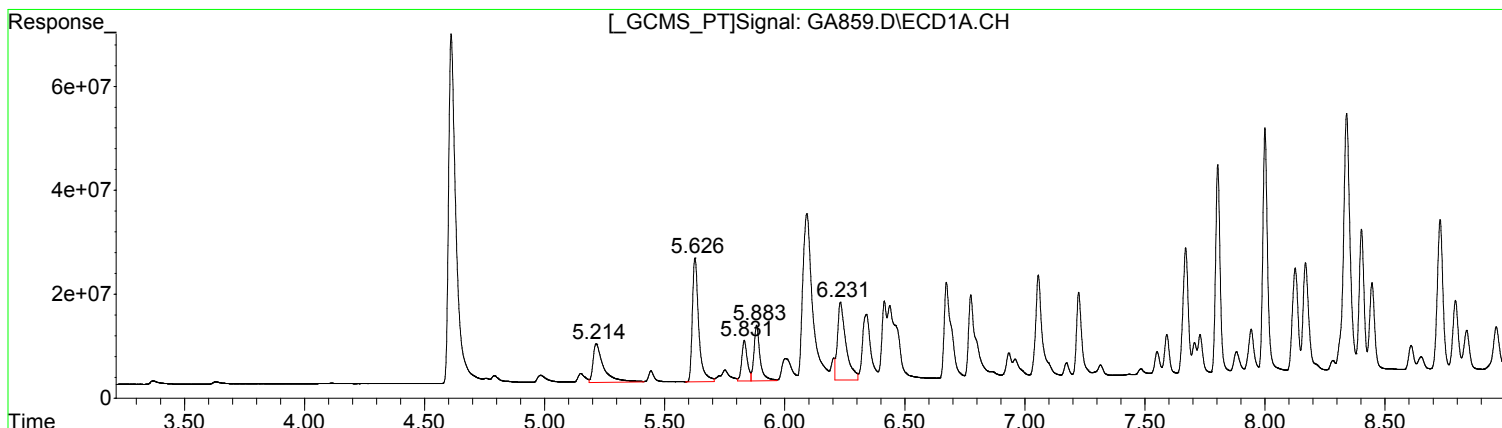
R.T.	Response	Conc
5.50	148373582	450.92
5.95	336246500	442.20
6.51	198718296	418.36
6.70	141332135	437.34
6.99	236350402	429.11

Manual Integration:  
After  
Poor integration.  
02/27/18

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA859.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 7:12 pm  
Operator : M.Pedro  
Sample : CCV62  
Misc : AR1660  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	228546077	480.95
5.63	437251596	449.61
5.83	126470056	462.63
5.88	188594105	458.27
6.23	369290386	409.42

Manual Integration:  
Before  
02/27/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	148373582	450.92
5.95	336246500	442.20
6.51	238206531	501.49
6.70	141332135	437.34
6.99	236350402	429.11

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA859.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 7:12 pm  
Operator : M.Pedro  
Sample : CCV62  
Misc : AR1660  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1 S SURR1, TCMX	25.202	24.201 E6	4.0	94	0.00
2 S SURR2,Decachlorobiphenyl	20.348	17.765 E6	12.7	91	0.00
3 L1c PCB 1016	475.197	457.092 E3	3.8	93	0.00
4 L1c PCB 1016{2}	972.517	874.503 E3	10.1	93	0.00
5 L1c PCB 1016{3}	273.374	252.940 E3	7.5	91	0.00
6 L1c PCB 1016{4}	411.536	377.188 E3	8.3	92	0.00
7 L1c PCB 1016{5}	901.988	855.378 E3	5.2	95	0.00
33 L7c PCB 1260	1.278	1.115 E6	12.8	91	0.00
34 L7c PCB 1260{2}	1.583	1.396 E6	11.8	93	0.00
35 L7c PCB 1260{3}	1.112	1.016 E6	8.6	93	0.00
36 L7C PCB 1260{4}	2.073	1.884 E6	9.1	91	0.00
37 L7C PCB 1260{5}	503.843	476.338 E3	5.5	95	0.00

Signal #2

49 S SURR1, TCMX #2	18.956	18.247 E6	3.7	95	0.00
50 S SURR2,Decachlorobiphenyl #2	16.417	13.889 E6	15.4#	89	-0.02
51 L1c PCB 1016 #2	329.045	296.747 E3	9.8	93	0.00
52 L1c PCB 1016{2} #2	760.403	672.493 E3	11.6	92	0.00
53 L1c PCB 1016{3} #2	474.996	397.437 E3	16.3#	89	0.00
54 L1c PCB 1016{4} #2	323.167	282.664 E3	12.5	90	0.00
55 L1c PCB 1016{5} #2	550.791	472.701 E3	14.2	88	0.00
81 L7c PCB 1260 #2	1.193	0.995 E6	16.6#	87	0.00
82 L7c PCB 1260{2} #2	727.528	607.988 E3	16.4#	85	0.00
83 L7c PCB 1260{3} #2	1.737	1.517 E6	12.7	88	0.00
84 L7C PCB 1260{4} #2	969.249	828.601 E3	14.5	87	-0.01
85 L7C PCB 1260{5} #2	607.788	523.111 E3	13.9	88	-0.01

Evaluate Continuing Calibration Report - Not Found

8 L2c PCB 1221	197.459	0.000 E3	100.0#	0#	-4.11#
9 L2c PCB 1221{2}	285.978	0.000 E3	100.0#	0#	-4.98#
10 L2c PCB 1221{3}	160.087	0.000 E3	100.0#	0#	-5.15#
11 L2c PCB 1221{4}	724.108	0.000 E3	100.0#	0#	-5.21#
12 L2c PCB 1221{5}	97.921	0.000 E3	100.0#	0#	-5.63#
13 L3c PCB 1232	674.110	0.000 E3	100.0#	0#	-5.21#
14 L3c PCB 1232{2}	508.886	0.000 E3	100.0#	0#	-5.63#
15 L3c PCB 1232{3}	1012.977	0.000 E3	100.0#	0#	-6.09#
16 L3c PCB 1232{4}	475.434	0.000 E3	100.0#	0#	-6.24#
17 L3c PCB 1232{5}	400.159	0.000 E3	100.0#	0#	-6.68#
18 L4c PCB 1242	401.075	0.000 E3	100.0#	0#	-5.22#
19 L4c PCB 1242{2}	337.772	0.000 E3	100.0#	0#	-5.88#
20 L4c PCB 1242{3}	1.605	0.000 E6	100.0#	0#	-6.09#
21 L4c PCB 1242{4}	719.522	0.000 E3	100.0#	0#	-6.68#

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA859.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 7:12 pm  
Operator : M.Pedro  
Sample : CCV62  
Misc : AR1660  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
22 L4c PCB 1242{5}	672.438	0.000 E3	100.0#	0#	-6.78#
23 L5c PCB 1248	424.760	0.000 E3	100.0#	0#	-5.63#
24 L5c PCB 1248{2}	1.044	0.000 E6	100.0#	0#	-6.09#
25 L5c PCB 1248{3}	366.283	0.000 E3	100.0#	0#	-6.23#
26 L5c PCB 1248{4}	1.120	0.000 E6	100.0#	0#	-6.67#
27 L5c PCB 1248{5}	941.084	0.000 E3	100.0#	0#	-6.78#
28 L6c PCB 1254	490.748	0.000 E3	100.0#	0#	-7.49#
29 L6c PCB 1254{2}	763.463	0.000 E3	100.0#	0#	-7.55#
30 L6c PCB 1254{3}	1.654	0.000 E6	100.0#	0#	-7.66#
31 L6c PCB 1254{4}	873.666	0.000 E3	100.0#	0#	-7.81#
32 L6c PCB 1254{5}	427.264	0.000 E3	100.0#	0#	-8.72#
38 L8C PCB 1268	589.119	0.000 E3	100.0	0#	-8.40#
39 L8C PCB 1268{2}	736.470	0.000 E3	100.0	0#	-8.66#
40 L8C PCB 1268{3}	2.552	0.000 E6	100.0	0#	-9.79#
41 L8C PCB 1268{4}	661.760	0.000 E3	100.0	0#	-9.91#
42 L8C PCB 1268{5}	1.144	0.000 E6	100.0	0#	-10.49#
43 L9C PCB 1262	604.709	0.000 E3	100.0	0#	-7.67#
44 L9C PCB 1262{2}	871.669	0.000 E3	100.0	0#	-7.80#
45 L9C PCB 1262{3}	1.387	0.000 E6	100.0	0#	-8.40#
46 L9C PCB 1262{4}	1.928	0.000 E6	100.0	0#	-9.54#
47 L9C PCB 1262{5}	892.998	0.000 E3	100.0	0#	-10.49#

Signal #2

56 L2c PCB 1221 #2	145.482	0.000 E3	100.0#	0#	-4.42#
57 L2c PCB 1221{2} #2	219.036	0.000 E3	100.0#	0#	-5.25#
58 L2c PCB 1221{3} #2	140.879	0.000 E3	100.0#	0#	-5.42#
59 L2c PCB 1221{4} #2	436.978	0.000 E3	100.0#	0#	-5.50#
60 L2c PCB 1221{5} #2	81.306	0.000 E3	100.0#	0#	-5.57#
61 L3c PCB 1232 #2	120.503	0.000 E3	100.0#	0#	-5.42#
62 L3c PCB 1232{2} #2	419.131	0.000 E3	100.0#	0#	-5.50#
63 L3c PCB 1232{3} #2	420.034	0.000 E3	100.0#	0#	-5.95#
64 L3c PCB 1232{4} #2	227.113	0.000 E3	100.0#	0#	-7.25#
65 L3c PCB 1232{5} #2	278.810	0.000 E3	100.0#	0#	-7.31#
66 L4c PCB 1242 #2	272.153	0.000 E3	100.0#	0#	-5.50#
67 L4c PCB 1242{2} #2	608.768	0.000 E3	100.0#	0#	-5.95#
68 L4c PCB 1242{3} #2	460.575	0.000 E3	100.0#	0#	-6.99#
69 L4c PCB 1242{4} #2	494.819	0.000 E3	100.0#	0#	-7.31#
70 L4c PCB 1242{5} #2	415.255	0.000 E3	100.0#	0#	-7.59#
71 L5c PCB 1248 #2	324.905	0.000 E3	100.0#	0#	-5.95#
72 L5c PCB 1248{2} #2	641.593	0.000 E3	100.0#	0#	-6.65#
73 L5c PCB 1248{3} #2	389.215	0.000 E3	100.0#	0#	-6.71#
74 L5c PCB 1248{4} #2	658.818	0.000 E3	100.0#	0#	-6.99#
75 L5c PCB 1248{5} #2	410.103	0.000 E3	100.0#	0#	-7.12#

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA859.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 7:12 pm  
Operator : M.Pedro  
Sample : CCV62  
Misc : AR1660  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
76 L6c PCB 1254 #2	812.320	0.000 E3	100.0#	0#	-7.44#
77 L6c PCB 1254{2} #2	633.189	0.000 E3	100.0#	0#	-7.85#
78 L6c PCB 1254{3} #2	919.016	0.000 E3	100.0#	0#	-8.06#
79 L6c PCB 1254{4} #2	984.494	0.000 E3	100.0#	0#	-8.68#
80 L6c PCB 1254{5} #2	483.901	0.000 E3	100.0#	0#	-9.24#
86 L8C PCB 1268 #2	500.757	0.000 E3	100.0	0#	-8.71#
87 L8C PCB 1268{2} #2	590.796	0.000 E3	100.0	0#	-9.13#
88 L8C PCB 1268{3} #2	2.090	0.000 E6	100.0	0#	-10.55#
89 L8C PCB 1268{4} #2	530.250	0.000 E3	100.0	0#	-10.79#
90 L8C PCB 1268{5} #2	958.003	0.000 E3	100.0	0#	-10.95#
91 L9C PCB 1262 #2	471.311	0.000 E3	100.0	0#	-7.94#
92 L9C PCB 1262{2} #2	784.984	0.000 E3	100.0	0#	-8.19#
93 L9C PCB 1262{3} #2	1.173	0.000 E6	100.0	0#	-8.71#
94 L9C PCB 1262{4} #2	809.686	0.000 E3	100.0	0#	-9.92#
95 L9C PCB 1262{5} #2	1.015	0.000 E6	100.0	0#	-10.95#

(#) = Out of Range

SPCC's out = 0 CCC's out = 53

Data Path : I:\ACQUDATA\6890D\DATA\022618\  
 Data File : GA859.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 26 Feb 2018 7:12 pm  
 Operator : M.Pedro  
 Sample : CCV62  
 Misc : AR1660  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Feb 27 08:59:34 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Tue Feb 27 08:58:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.755	1452.0E6	1094.8E6	57.616	57.755
Spiked Amount	100.000	Range	30 - 150	Recovery =	57.62%	57.76%
2) S SURR2, Dec...	11.369	12.665	1065.9E6	833.3E6	52.383	50.761
Spiked Amount	100.000	Range	30 - 150	Recovery =	52.38%	50.76%
Target Compounds						
3) L1c PCB 1016	5.215	5.496	228.5E6	148.4E6	480.950	450.922
4) L1c PCB 1016{2}	5.626	5.947	437.3E6	336.2E6	449.608	442.195
5) L1c PCB 1016{3}	5.832	6.505	126.5E6	198.7E6	462.626	418.357m
6) L1c PCB 1016{4}	5.883	6.703	188.6E6	141.3E6	458.269	437.335
7) L1c PCB 1016{5}	6.231	6.987	427.7E6	236.4E6	474.162m	429.111
Sum PCB 1016			1408.6E6	1061.0E6	2325.615	2177.921
Average PCB 1016					465.123	435.584
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.804	8.187	557.6E6	497.4E6	436.298	417.041
34) L7c PCB 1260{2}	8.000	9.165	697.8E6	304.0E6	440.872	417.845
35) L7c PCB 1260{3}	8.730	9.329	508.0E6	758.5E6	457.027	436.784
36) L7C PCB 1260{4}	9.047	10.064	942.0E6	414.3E6	454.297	427.445
37) L7C PCB 1260{5}	10.483	10.936	238.2E6	261.6E6	472.704	430.340
Sum PCB 1260			2943.5E6	2235.8E6	2261.198	2129.456
Average PCB 1260					452.240	425.891
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

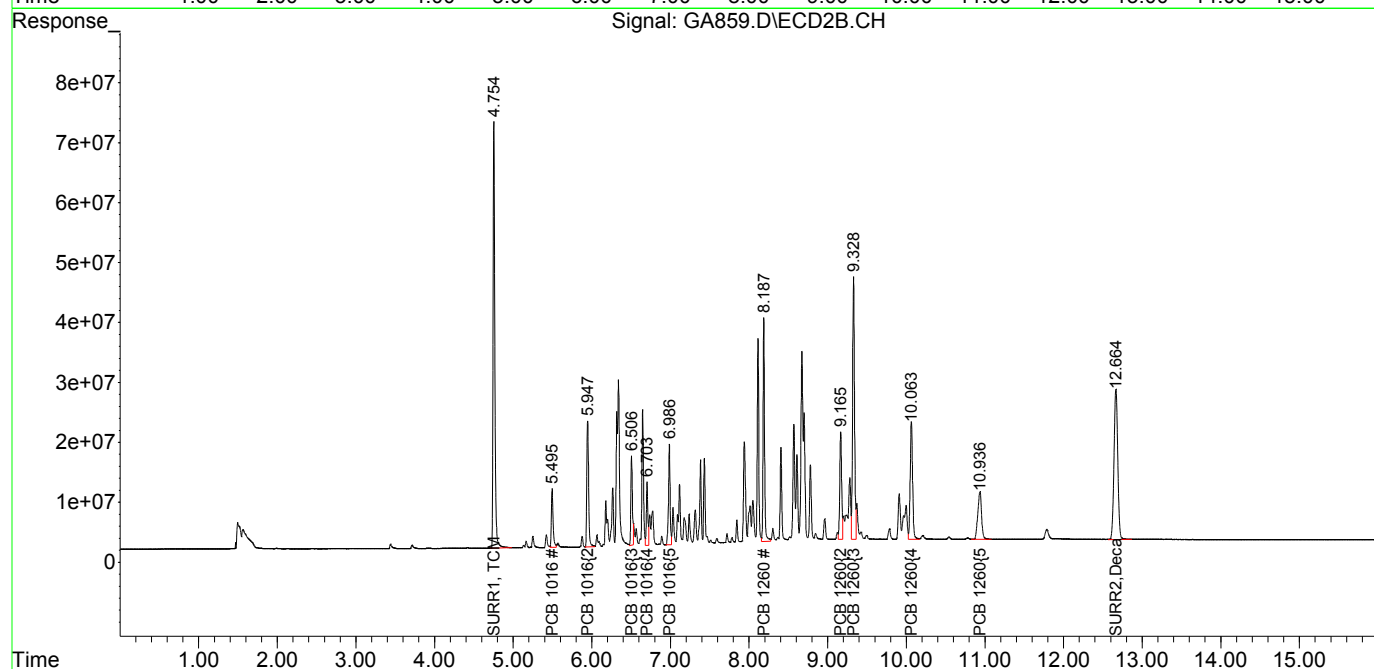
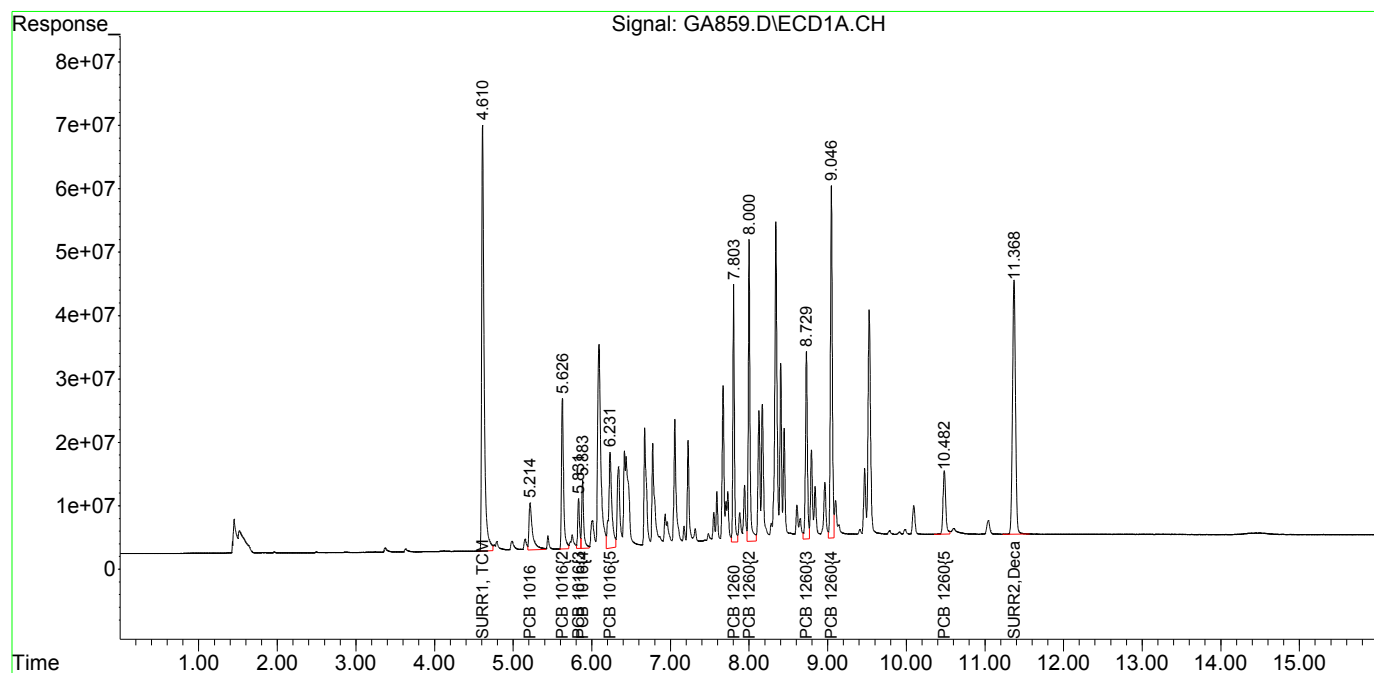
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\022618\  
Data File : GA859.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 26 Feb 2018 7:12 pm  
Operator : M.Pedro  
Sample : CCV62  
Misc : AR1660  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Feb 27 08:59:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Tue Feb 27 08:58:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA352.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 5:23 pm  
 Operator : M.Pedro  
 Sample : ar1660 icv  
 Misc : initial cal  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:43:28 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:42:59 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

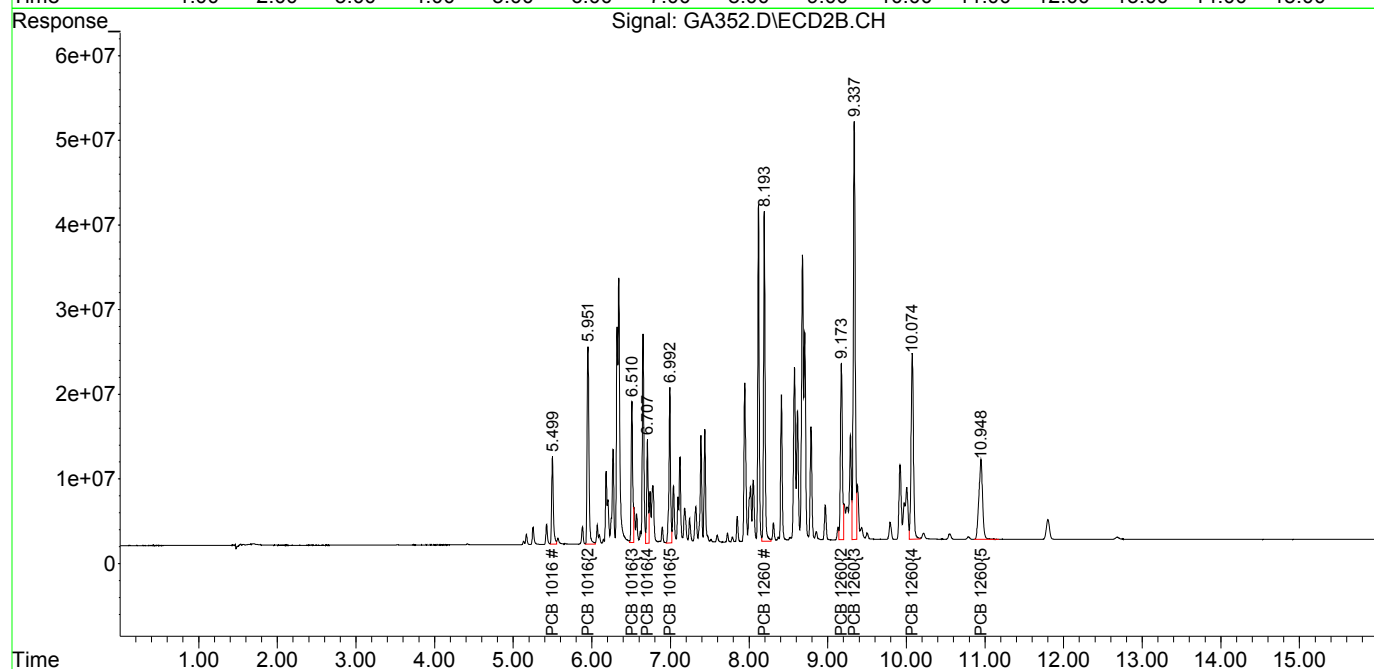
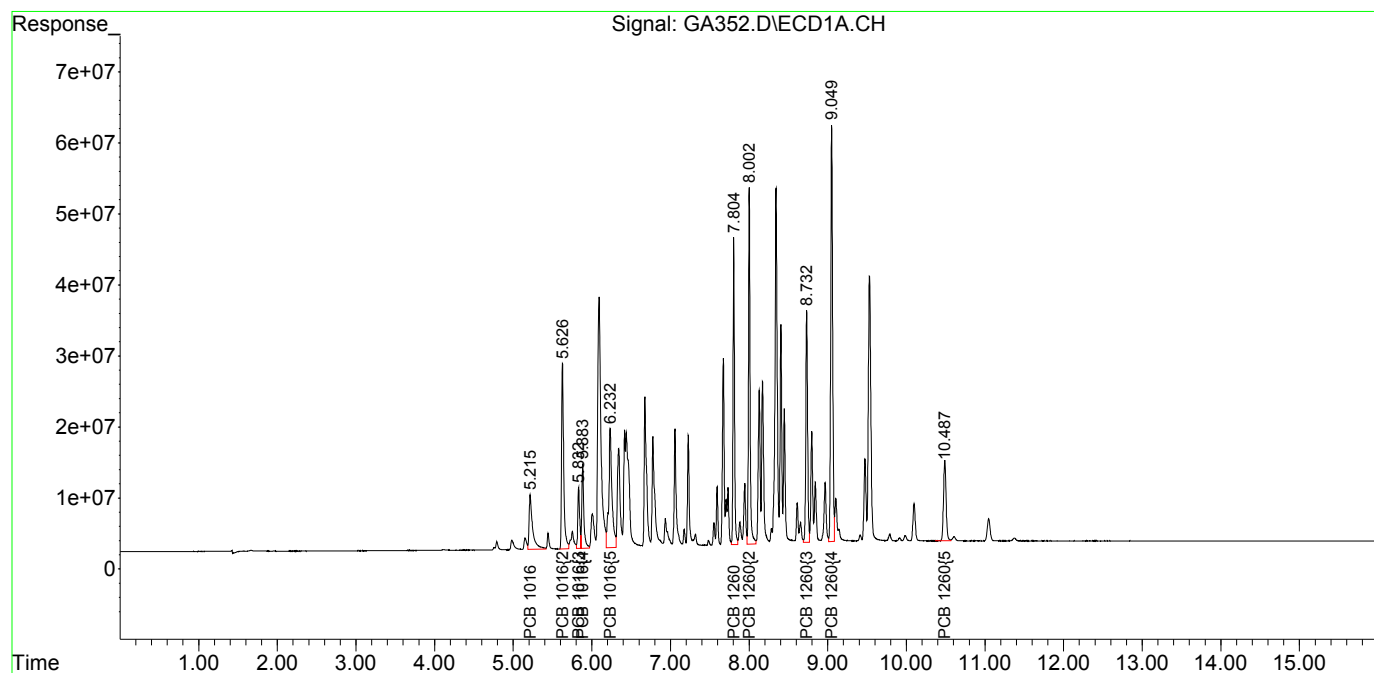
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
Target Compounds						
3) L1c PCB 1016	5.216	5.499	239.9E6	156.6E6	504.797	475.931
4) L1c PCB 1016{2}	5.627	5.951	488.5E6	377.3E6	502.323	496.211
5) L1c PCB 1016{3}	5.832	6.510	142.9E6	229.5E6	522.616	483.202m
6) L1c PCB 1016{4}	5.884	6.707	214.2E6	164.3E6	520.543	508.259
7) L1c PCB 1016{5}	6.233	6.992	476.2E6	256.6E6	527.946	465.811
Sum PCB 1016			1561.7E6	1184.3E6	2578.224	2429.414
Average PCB 1016					515.645	485.883
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.193	583.1E6	534.7E6	456.255	448.314
34) L7c PCB 1260{2}	8.002	9.173	703.5E6	354.9E6	444.461	487.790
35) L7c PCB 1260{3}	8.732	9.337	527.0E6	843.8E6	474.115	485.881
36) L7c PCB 1260{4}	9.050	10.075	1011.9E6	460.5E6	488.008	475.085
37) L7c PCB 1260{5}	10.488	10.948	259.4E6	305.3E6	514.834	502.386
Sum PCB 1260			3084.8E6	2499.2E6	2377.674	2399.456
Average PCB 1260					475.535	479.891
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

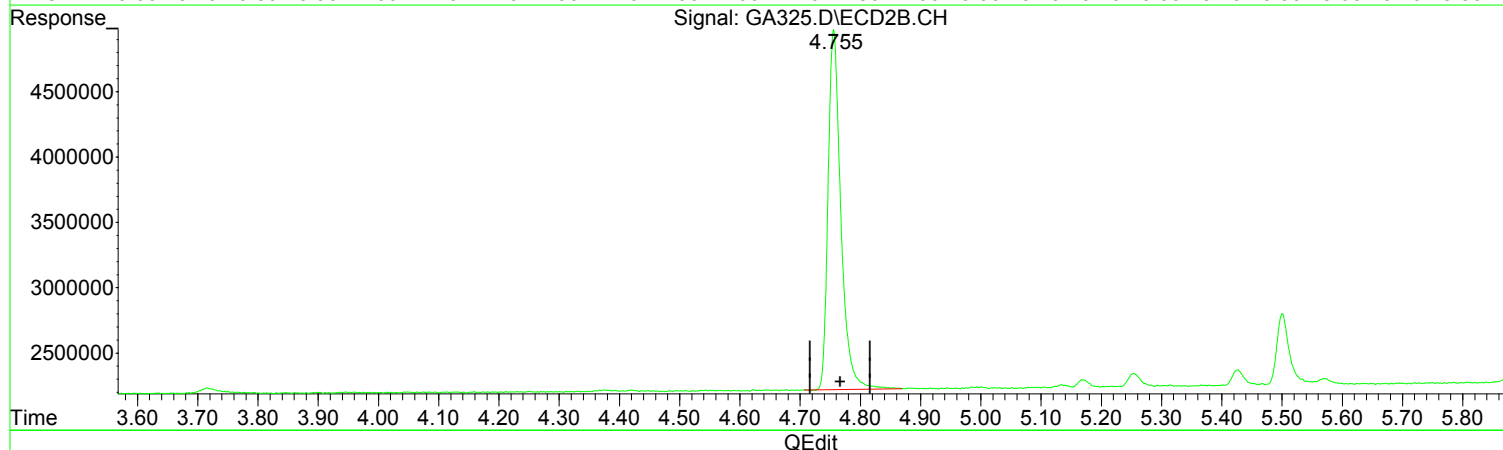
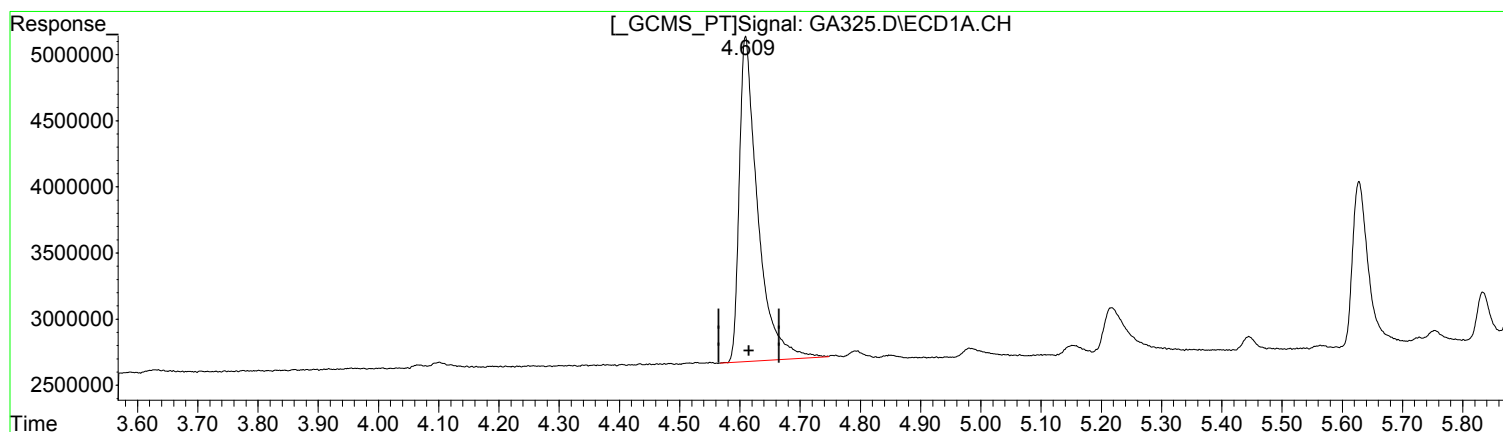
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(1) SURR1, TCMX (S)  
4.609min 2.381 ug/l m  
response 52331021

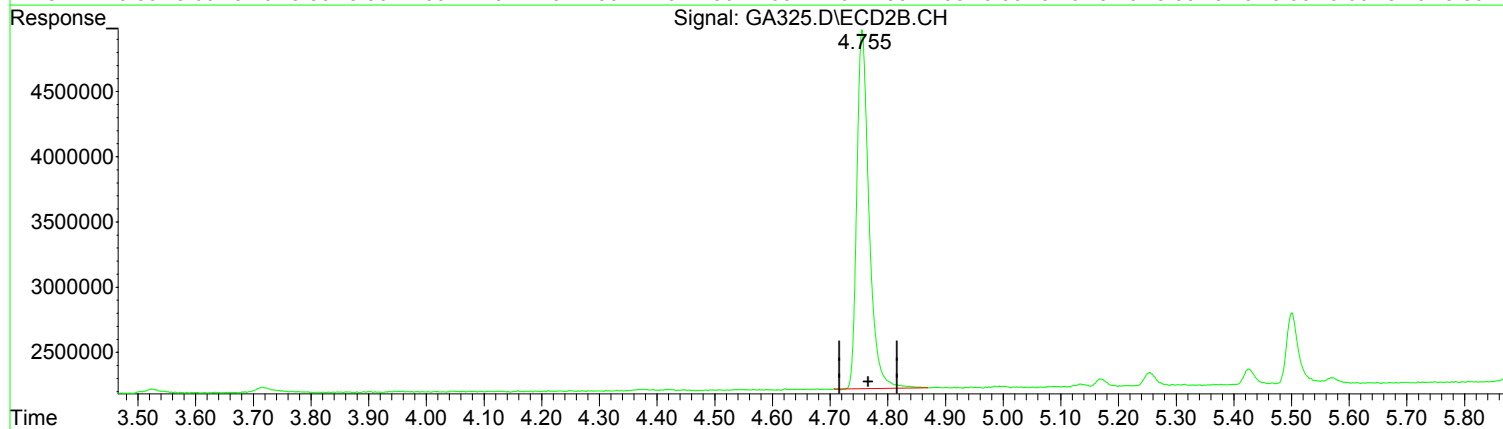
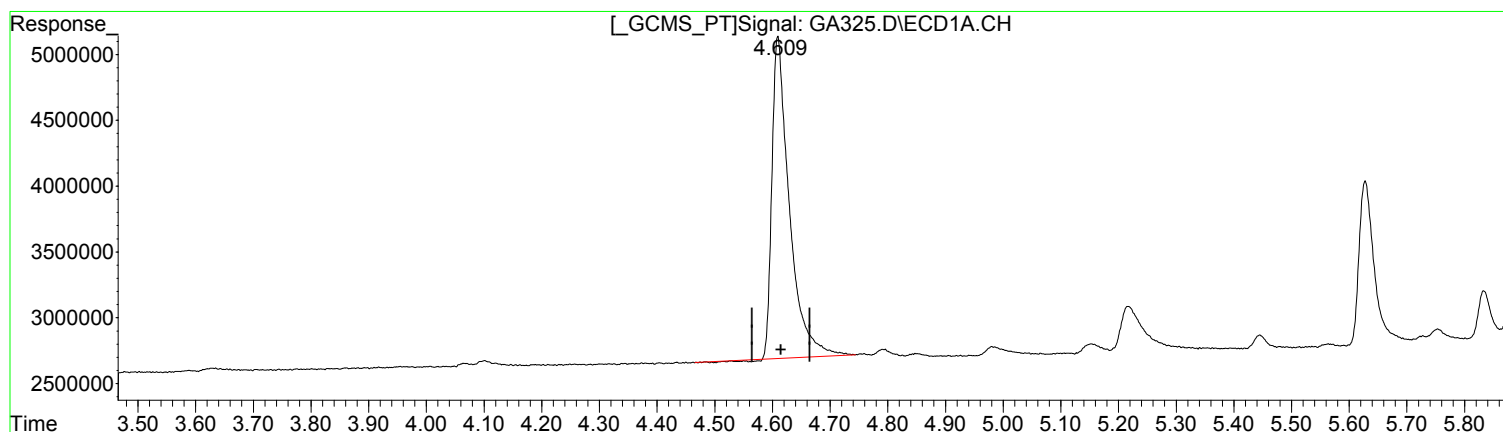
(1) SURR1, TCMX #2 (S)  
4.756min 2.196 ug/l  
response 40572661

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(1) SURR1, TCMX (S)  
4.610min 2.324 ug/l  
response 51088880

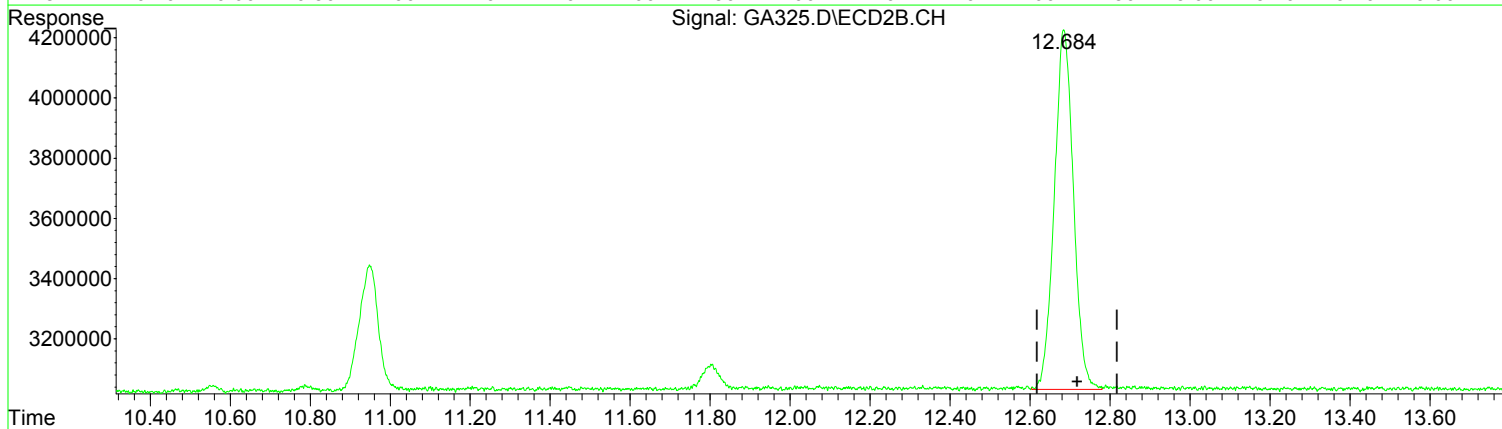
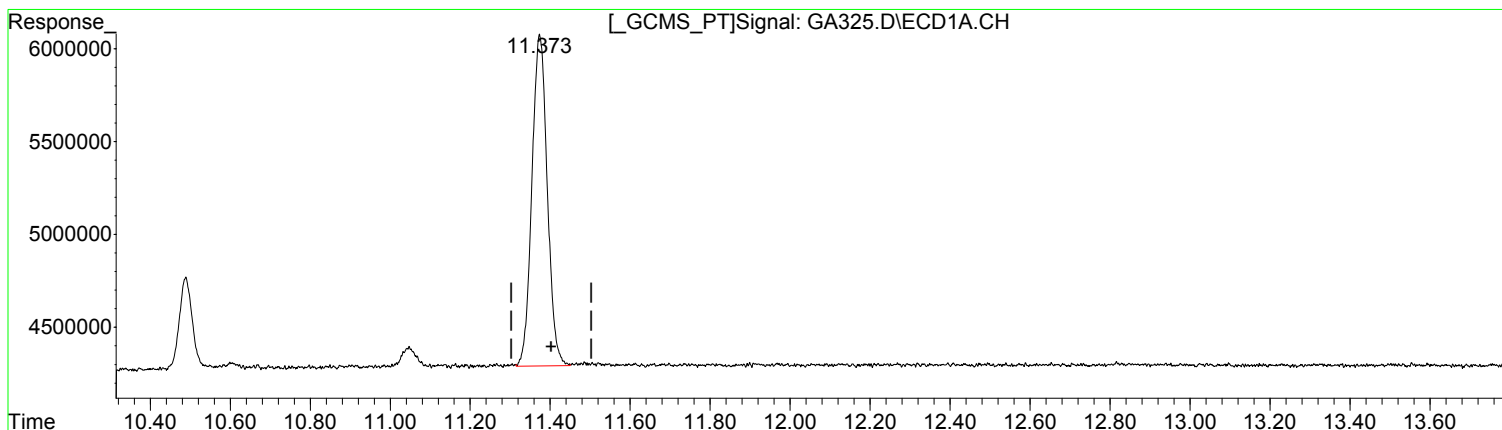
(1) SURR1, TCMX #2 (S)  
4.756min 2.196 ug/l  
response 40572661

Manual Integration:  
Before  
  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(2) SURR2,Decachlorobiphenyl (S)  
11.373min 3.082 ug/l m  
response 47551076

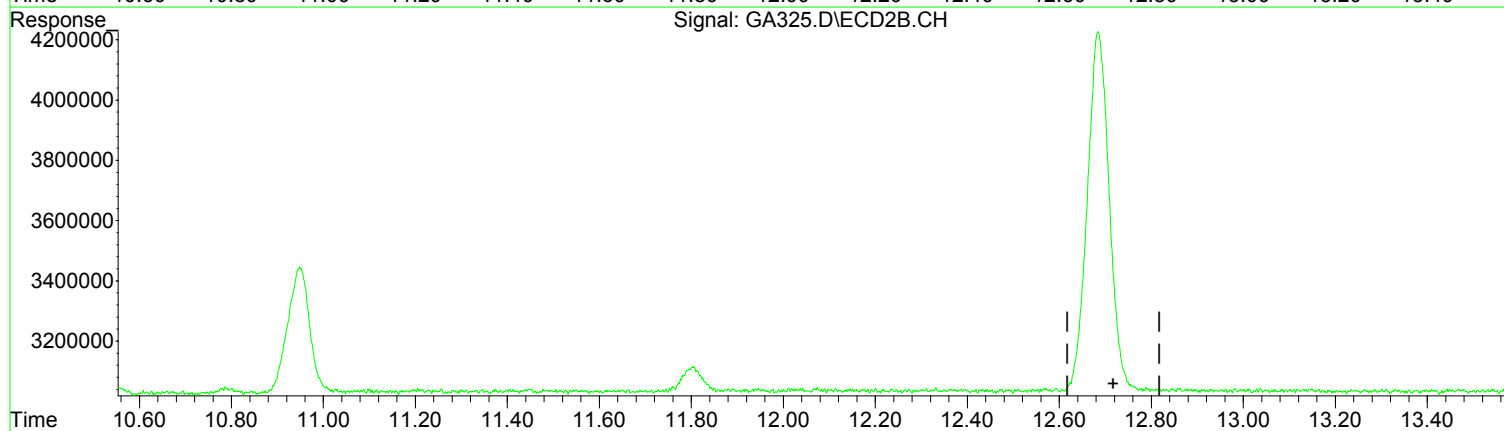
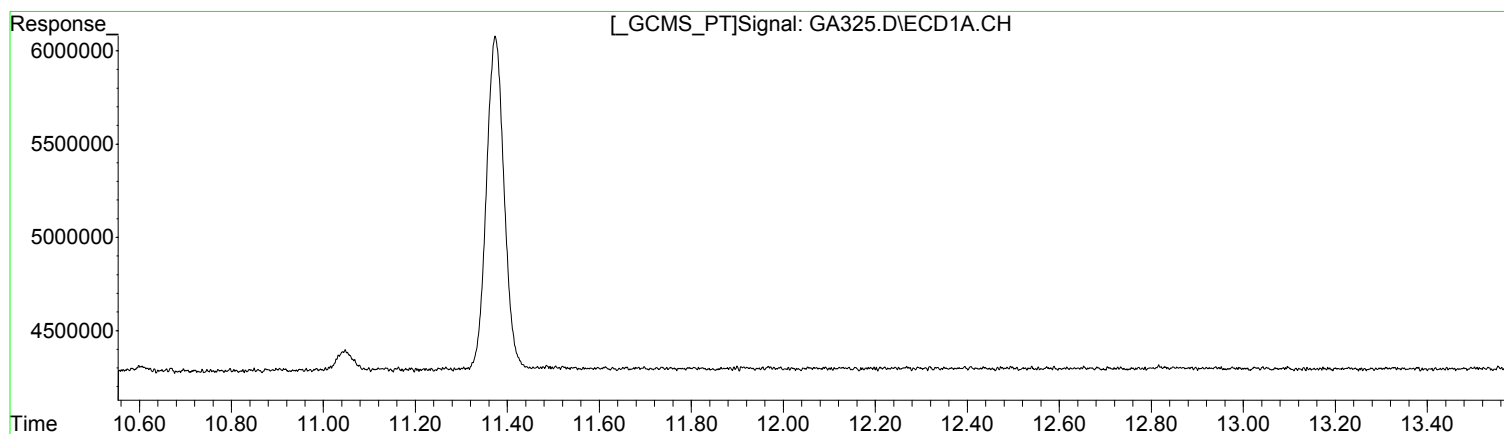
(2) SURR2,Decachlorobiphenyl #2 (S)  
12.684min 2.944 ug/l m  
response 39628867

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(2) SURR2,Decachlorobiphenyl (S)  
0.000min 0.000 ug/l  
response 0

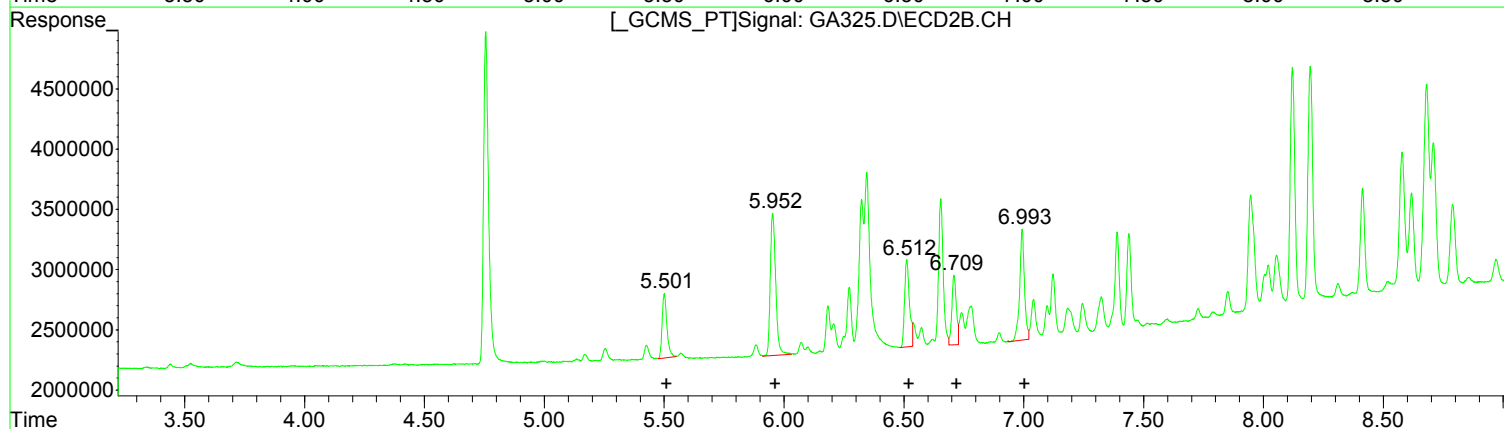
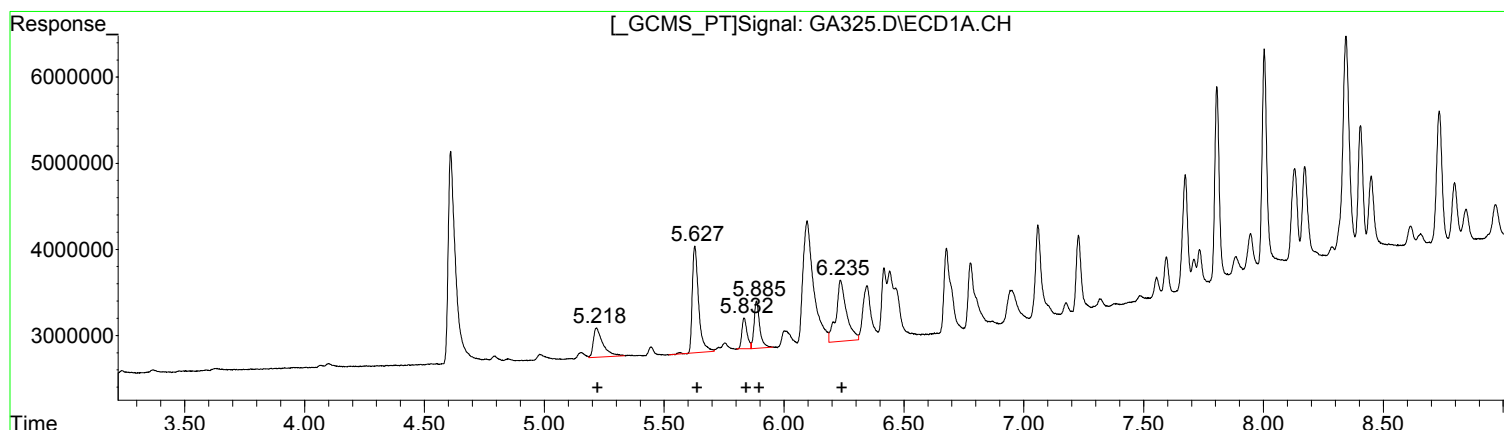
Manual Integration:  
Before  
01/11/18

(2) SURR2,Decachlorobiphenyl #2 (S)  
0.000min 0.000 ug/l  
response 0

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	9390730	23.57
5.63	22767492	27.44
5.83	5582316	23.33
5.89	8942039	27.31
6.24	21464656	29.38

(3) PCB 1016 #2 (L1c)

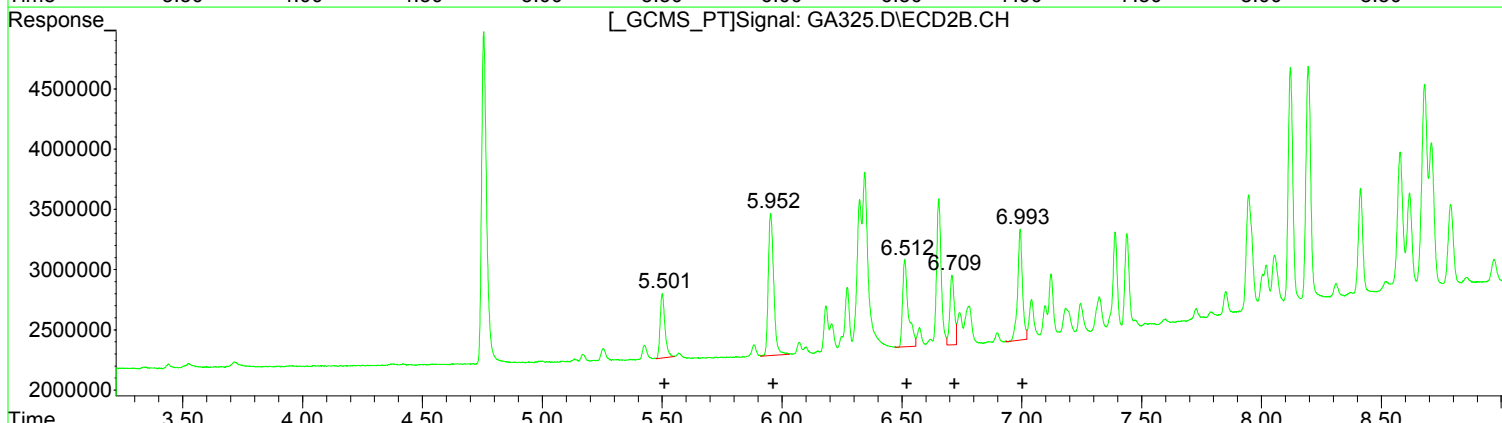
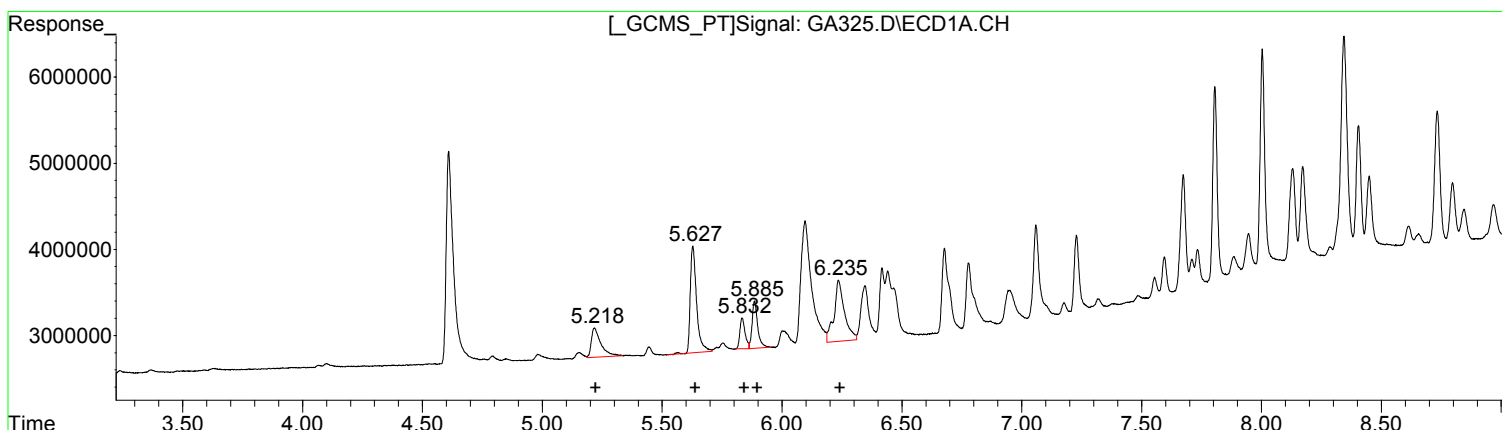
R.T.	Response	Conc
5.50	7385472	22.73
5.95	18447080	25.54
6.51	10143786	23.40
6.71	7535144	26.19
6.99	12732808	24.68

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	9390730	23.57
5.63	22767492	27.44
5.83	5582316	23.33
5.89	8942039	27.31
6.24	21464656	29.38

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)

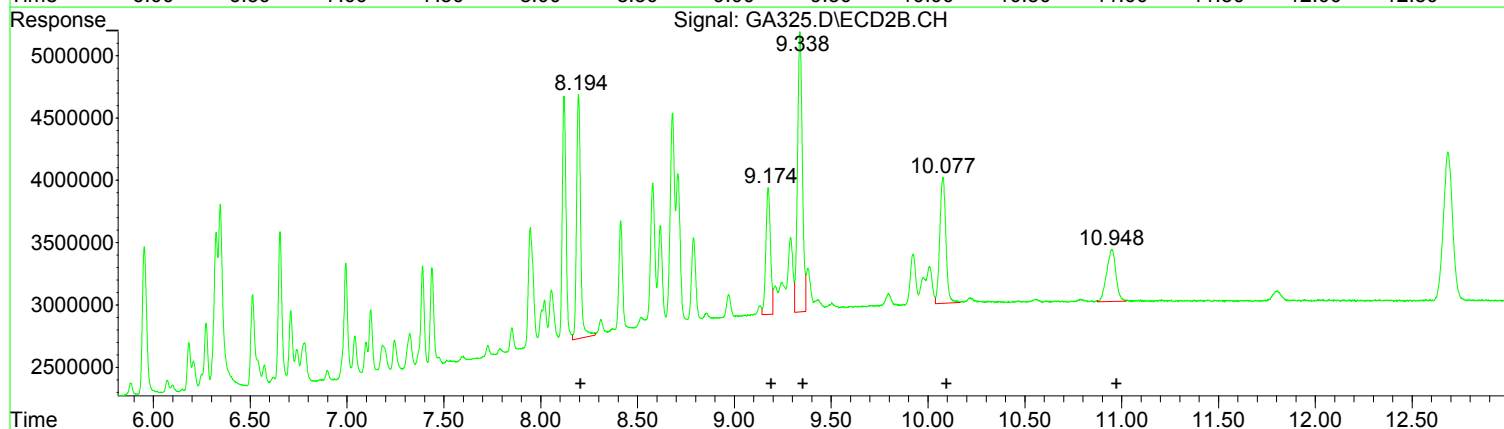
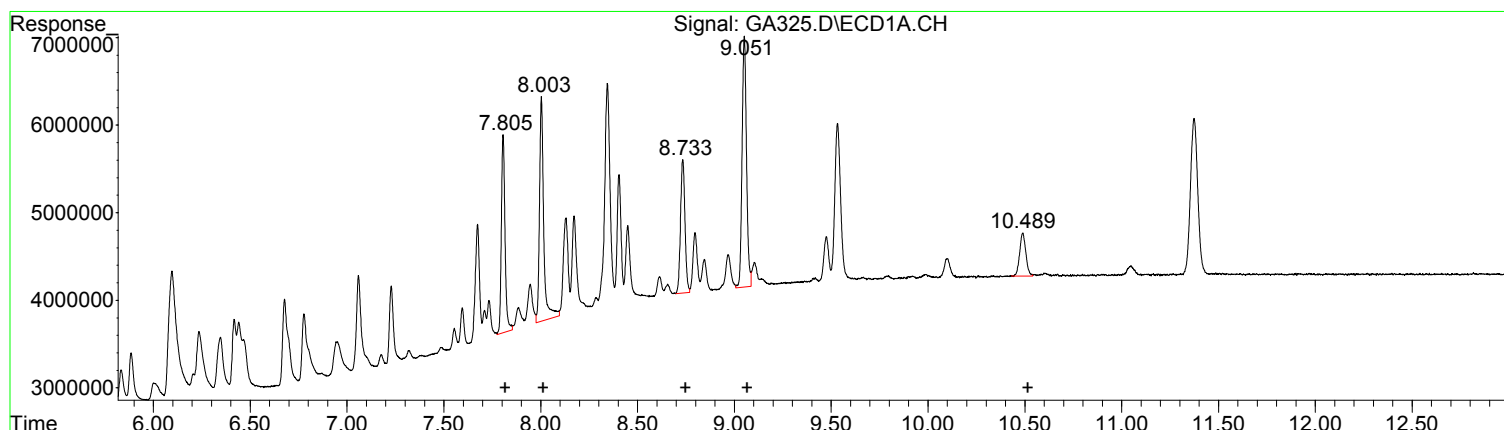
R.T.	Response	Conc
5.50	7385472	22.73
5.95	18447080	25.54
6.51	11903653	27.46
6.71	7535144	26.19
6.99	12732808	24.68



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)

R.T.	Response	Conc
7.81	30069722	30.21
8.00	38688390	32.39
8.73	24259575	29.69
9.05	45838984	29.94
10.49	10890281	28.44

Manual Integration:  
After  
Poor integration.  
01/11/18

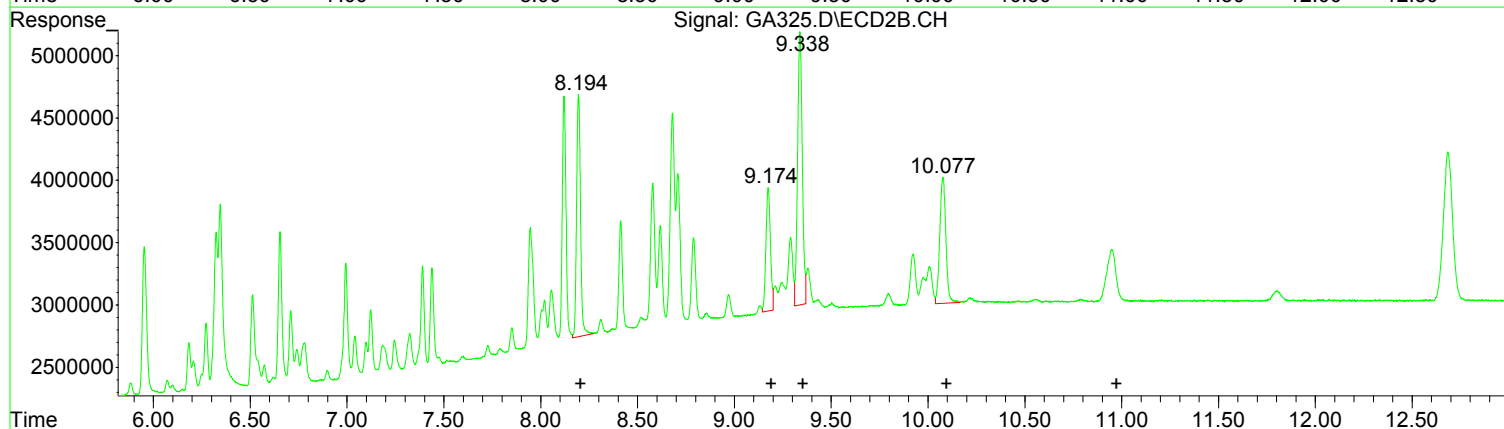
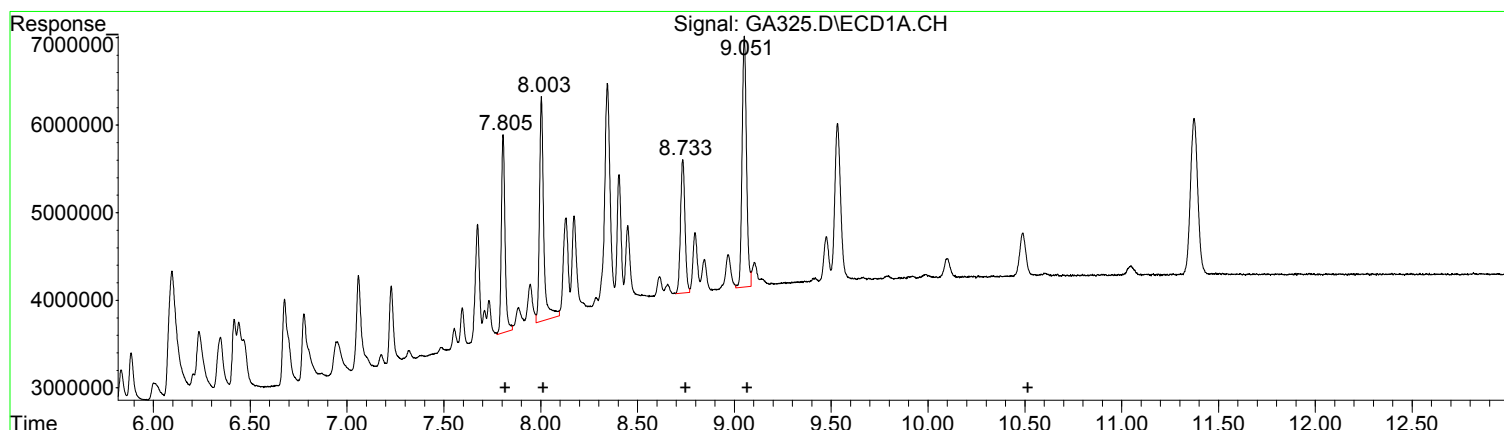
(33) PCB 1260 #2 (L7c)

R.T.	Response	Conc
8.19	28823809	30.60
9.17	16812578	29.18
9.34	39374979	28.54
10.08	21799192	28.93
10.95	13706895	28.59

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(33) PCB 1260 (L7c)

R.T.	Response	Conc
7.81	30069722	30.21
8.00	38688390	32.39
8.73	24259575	29.69
9.05	45838984	29.94
0.00	0	0.00

Manual Integration:  
Before  
01/11/18

(33) PCB 1260 #2 (L7c)

R.T.	Response	Conc
8.20	27737624	29.45
9.17	16009666	27.78
9.34	37460596	27.15
10.08	21799192	28.93
0.00	0	0.00

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	52331021	40572661	2.381m	2.196
Spiked Amount	100.000	Range	30 - 150	Recovery =	2.38%#	2.20%#
2) S SURR2, Dec...	11.373	12.684	47551076	39628867	3.082m	2.944m
Spiked Amount	100.000	Range	30 - 150	Recovery =	3.08%#	2.94%#
Target Compounds						
3) L1c PCB 1016	5.217	5.501	9390730	7385472	23.566	22.734
4) L1c PCB 1016{2}	5.628	5.953	22767492	18447080	27.439	25.536
5) L1c PCB 1016{3}	5.834	6.512	5582316	10143786	23.333	23.404m
6) L1c PCB 1016{4}	5.885	6.709	8942039	7535144	27.313	26.193
7) L1c PCB 1016{5}	6.236	6.993	21464656	12732808	29.381	24.677
Sum PCB 1016			68147233	56244289	131.032	122.544
Average PCB 1016					26.206	24.509
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.806	8.194	30069722	28823809	30.206	30.601m
34) L7c PCB 1260{2}	8.004	9.174	38688390	16812578	32.393	29.176m
35) L7c PCB 1260{3}	8.733	9.338	24259575	39374979	29.694	28.536m
36) L7C PCB 1260{4}	9.051	10.077	45838984	21799192	29.941	28.931
37) L7C PCB 1260{5}	10.489	10.948	10890281	13706895	28.441m	28.590m
Sum PCB 1260			149.7E6	120.5E6	150.675	145.833
Average PCB 1260					30.135	29.167
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

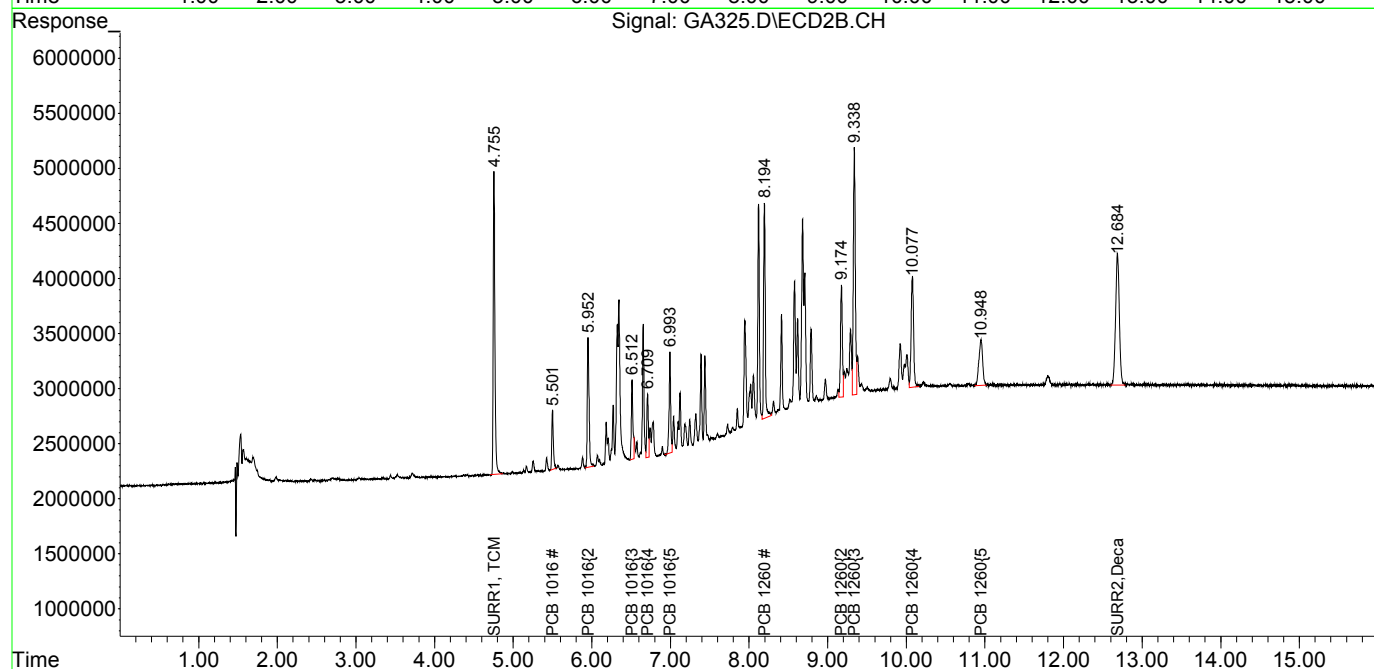
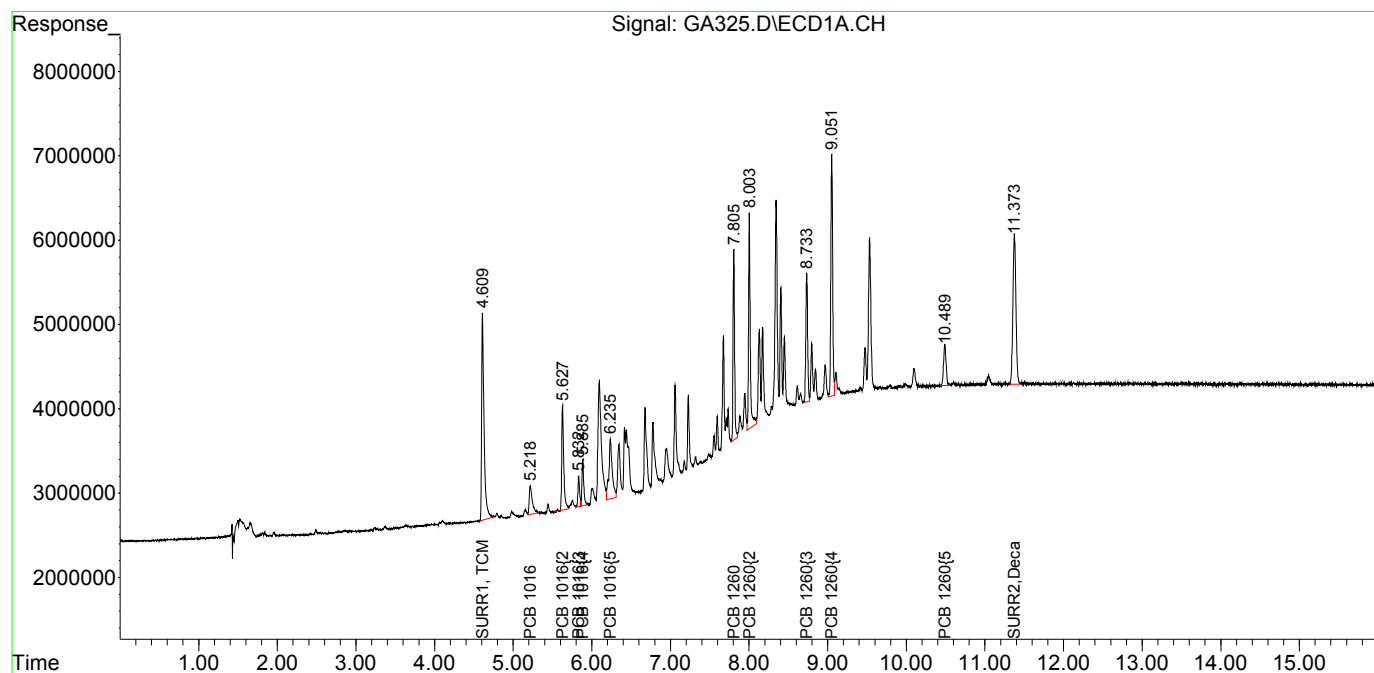
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA325.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:32 am  
Operator : M.Pedro  
Sample : ar166011  
Misc : initial cal  
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:08:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Mon Jan 08 14:01:00 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

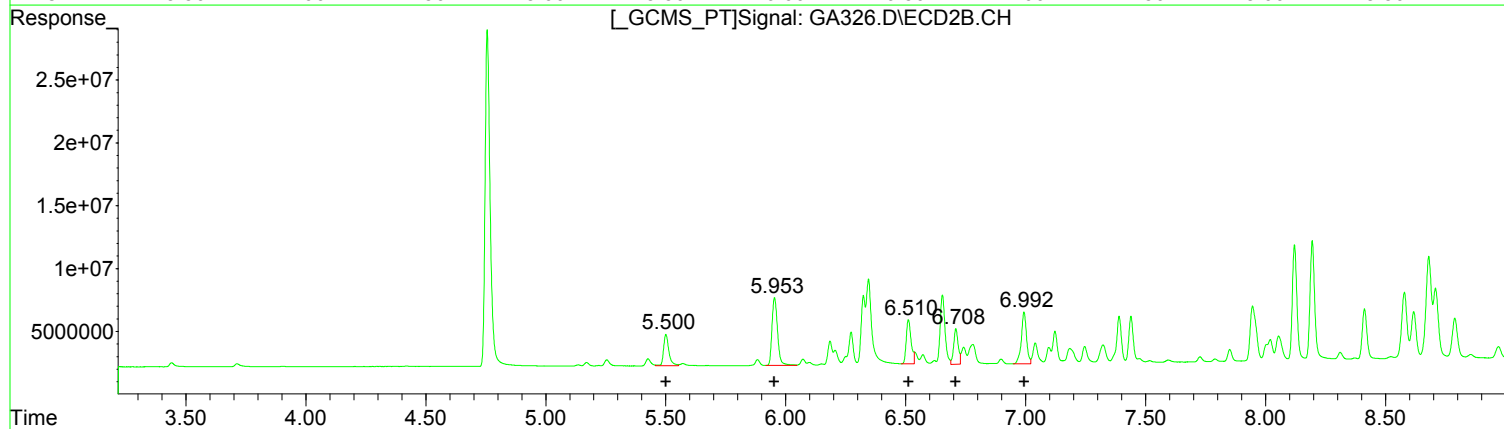
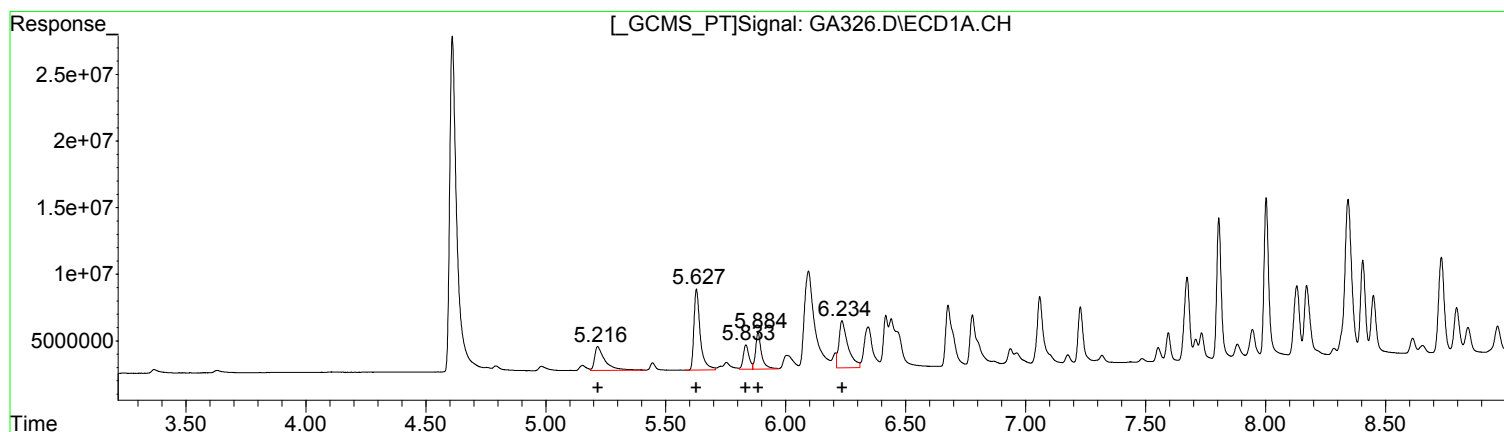
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	54266611	161.76
5.63	110203655	156.48
5.83	30347255	151.23
5.88	46673740	168.86
6.23	92503837	149.82

(3) PCB 1016 #2 (L1c)

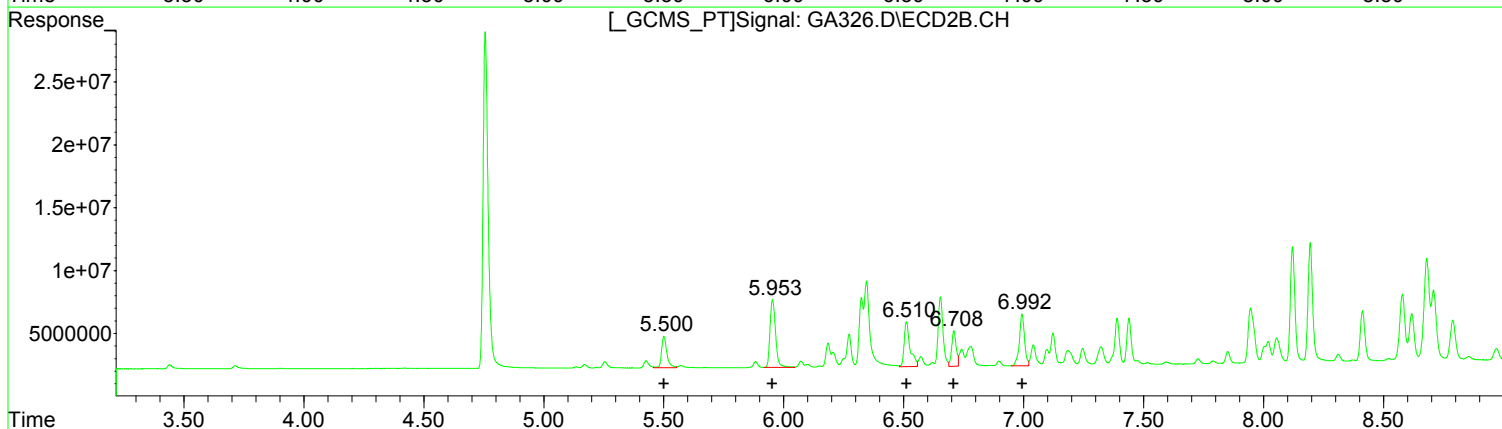
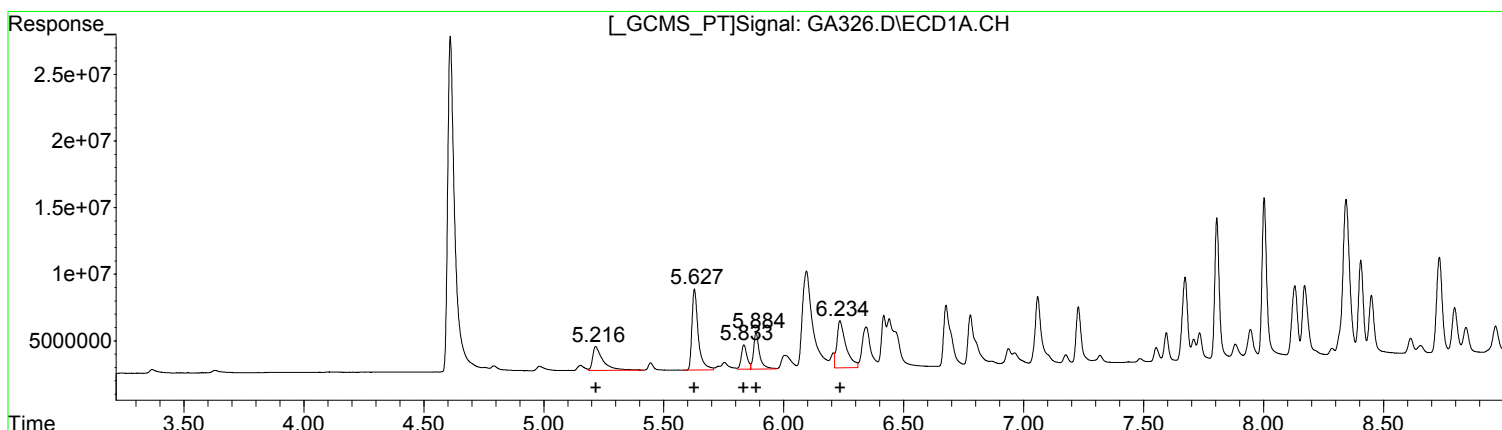
R.T.	Response	Conc
5.50	38401882	139.32
5.95	86648839	141.34
6.51	49847556	136.37
6.71	36958640	152.15
6.99	61690075	141.73

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	54266611	161.76
5.63	110203655	156.48
5.83	30347255	151.23
5.88	46673740	168.86
6.23	92503837	149.82

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	38401882	139.32
5.95	86648839	141.34
6.51	60590283	165.76
6.71	36958640	152.15
6.99	61690075	141.73

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA326.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 8:52 am  
 Operator : M.Pedro  
 Sample : ar16601  
 Misc : initial cal  
 ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:11:01 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:10:50 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	523.2E6	394.6E6	28.474	25.557
Spiked Amount	100.000	Range	30 - 150	Recovery	= 28.47%#	25.56%#
2) S SURR2, Dec...	11.375	12.682	422.9E6	338.8E6	32.554	29.985
Spiked Amount	100.000	Range	30 - 150	Recovery	= 32.55%	29.98%#
Target Compounds						
3) L1c PCB 1016	5.216	5.501	54266611	38401882	161.765	139.321
4) L1c PCB 1016{2}	5.628	5.953	110.2E6	86648839	156.484	141.338
5) L1c PCB 1016{3}	5.834	6.510	30347255	49847556	151.225	136.372m
6) L1c PCB 1016{4}	5.884	6.709	46673740	36958640	168.861	152.151
7) L1c PCB 1016{5}	6.234	6.993	92503837	61690075	149.816	141.730
Sum PCB 1016			334.0E6	273.5E6	788.151	710.912
Average PCB 1016					157.630	142.182
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.194	146.0E6	134.6E6	171.958	169.728
34) L7c PCB 1260{2}	8.002	9.174	181.5E6	79542636	178.503	164.190
35) L7c PCB 1260{3}	8.732	9.339	125.0E6	186.6E6	182.005	161.937
36) L7C PCB 1260{4}	9.050	10.075	224.0E6	106.2E6	174.782	168.504
37) L7C PCB 1260{5}	10.488	10.949	54118653	65398335	168.032	163.045
Sum PCB 1260			730.6E6	572.4E6	875.279	827.403
Average PCB 1260					175.056	165.481
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

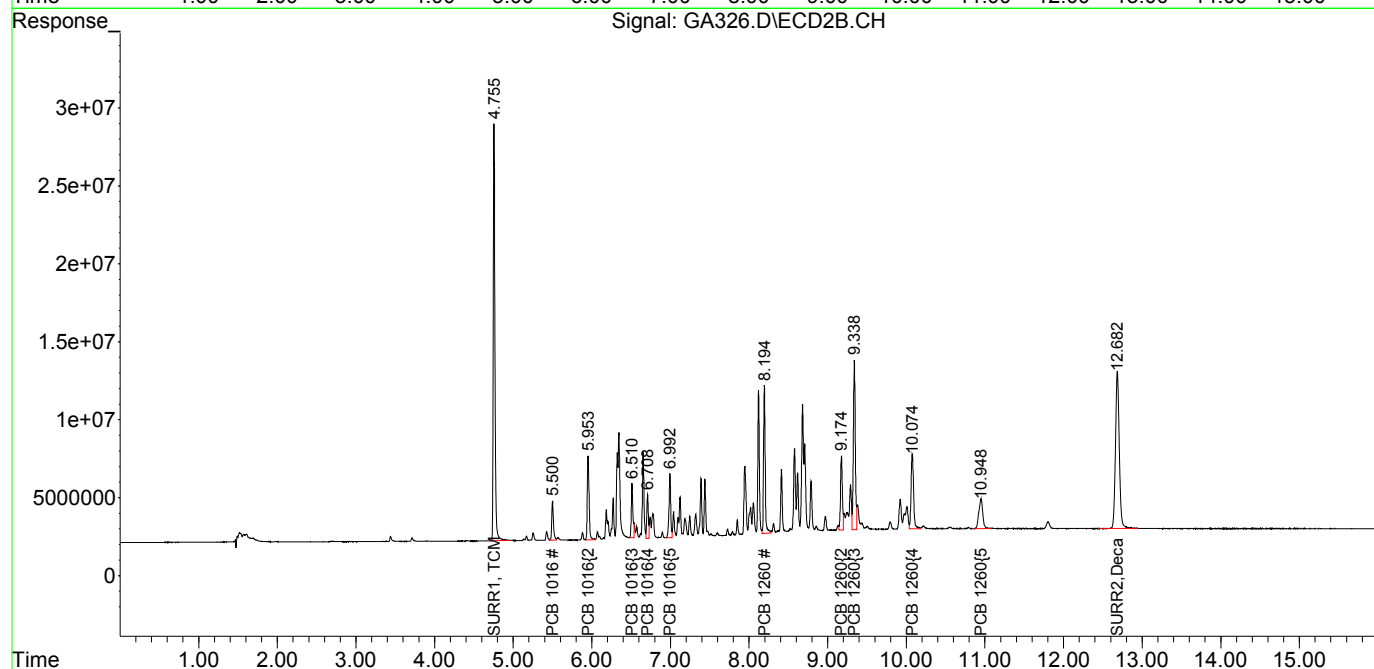
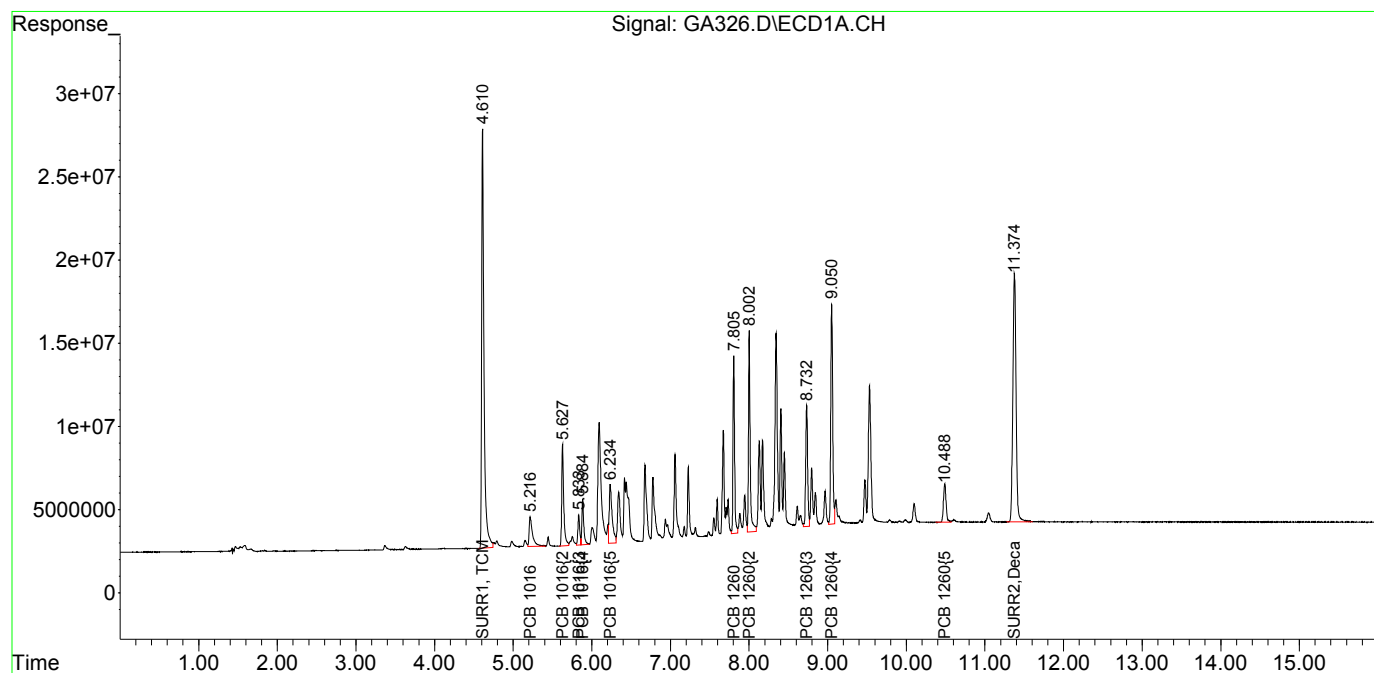




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA326.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 8:52 am  
Operator : M.Pedro  
Sample : ar16601  
Misc : initial cal  
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:11:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:10:50 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA327.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 9:11 am  
 Operator : M.Pedro  
 Sample : ar1660ml  
 Misc : initial cal  
 ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:12:53 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:12:44 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	1015.2E6	763.1E6	58.413	55.263
Spiked Amount	100.000	Range	30 - 150	Recovery	= 58.41%	55.26%
2) S SURR2, Dec...	11.373	12.686	804.4E6	645.6E6	59.764	57.116
Spiked Amount	100.000	Range	30 - 150	Recovery	= 59.76%	57.12%
Target Compounds						
3) L1c PCB 1016	5.215	5.500	120.5E6	83070136	380.360	341.192
4) L1c PCB 1016{2}	5.628	5.951	240.9E6	187.6E6	354.660	335.921
5) L1c PCB 1016{3}	5.833	6.512	68111951	132.0E6	366.641	407.211
6) L1c PCB 1016{4}	5.885	6.709	103.3E6	79736175	377.230	347.956
7) L1c PCB 1016{5}	6.234	6.993	226.9E6	134.7E6	377.323	340.863
Sum PCB 1016			759.8E6	617.1E6	1856.215	1773.143
Average PCB 1016					371.243	354.629
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.194	313.0E6	290.1E6	370.523	364.115
34) L7c PCB 1260{2}	8.002	9.175	383.2E6	177.1E6	364.107	369.326
35) L7c PCB 1260{3}	8.733	9.339	275.0E6	422.4E6	384.904	371.376
36) L7C PCB 1260{4}	9.050	10.076	506.0E6	237.7E6	383.382	374.339
37) L7C PCB 1260{5}	10.488	10.951	125.1E6	150.4E6	390.707	377.175
Sum PCB 1260			1602.2E6	1277.8E6	1893.622	1856.331
Average PCB 1260					378.724	371.266
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

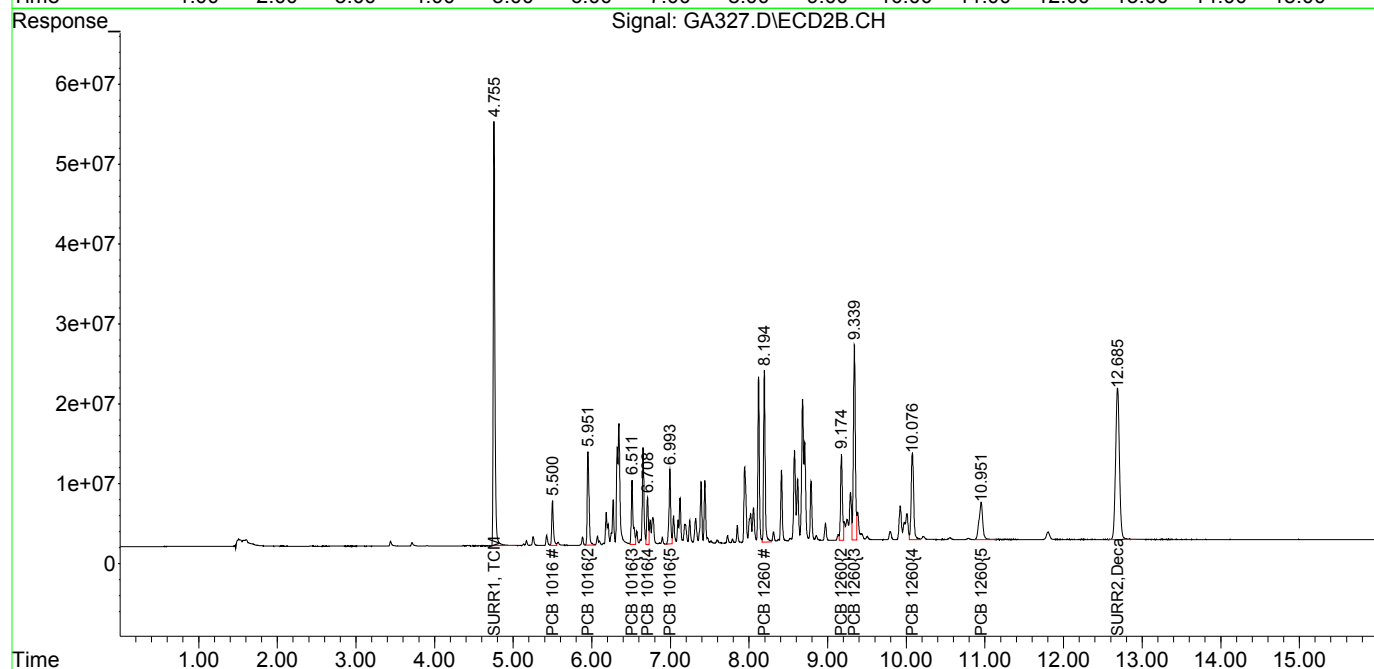
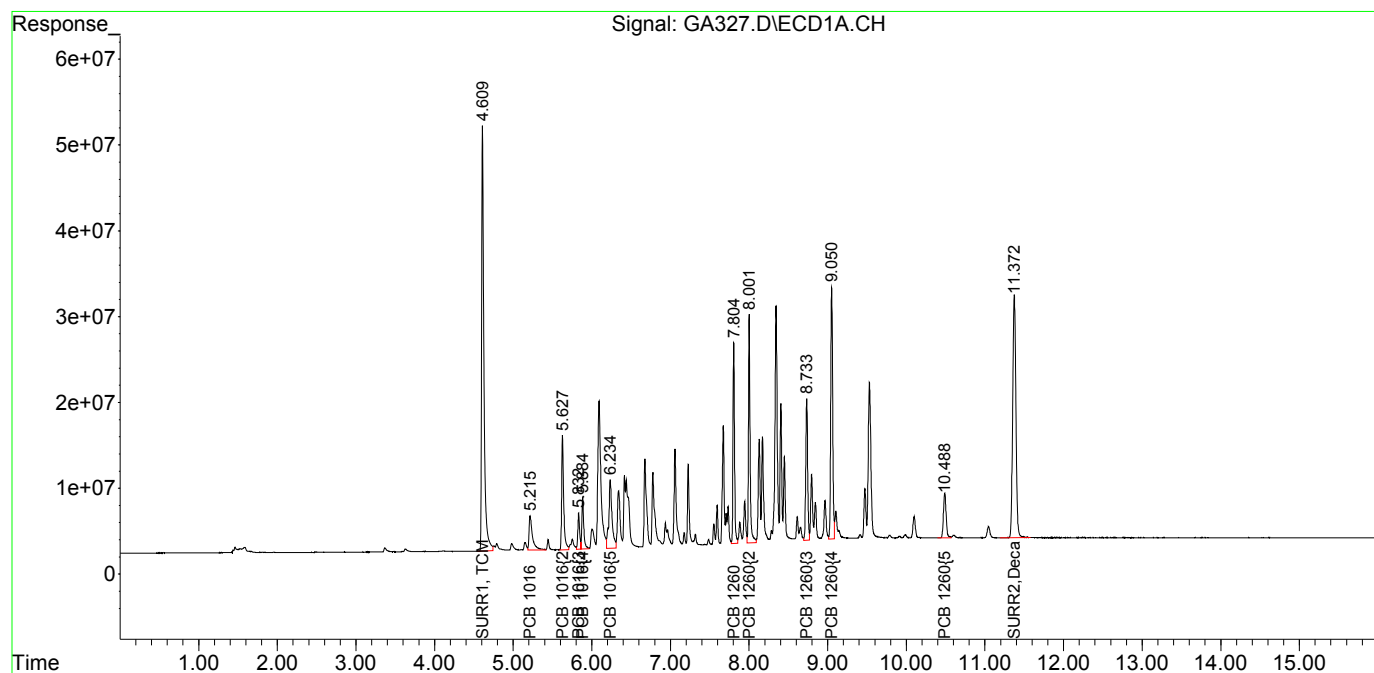
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA327.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:11 am  
Operator : M.Pedro  
Sample : ar1660ml  
Misc : initial cal  
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:12:53 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:12:44 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

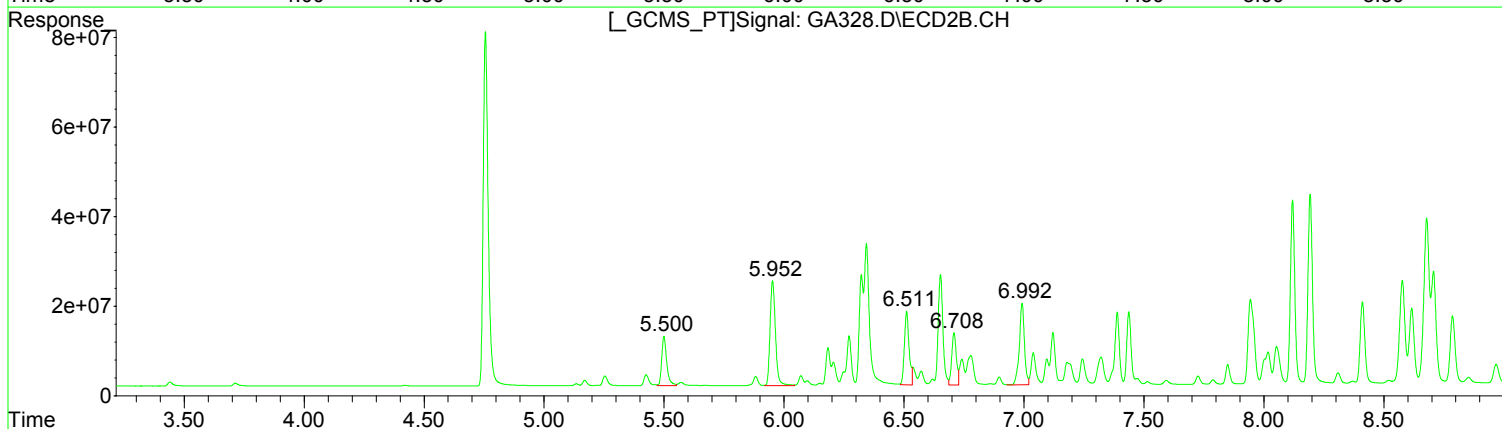
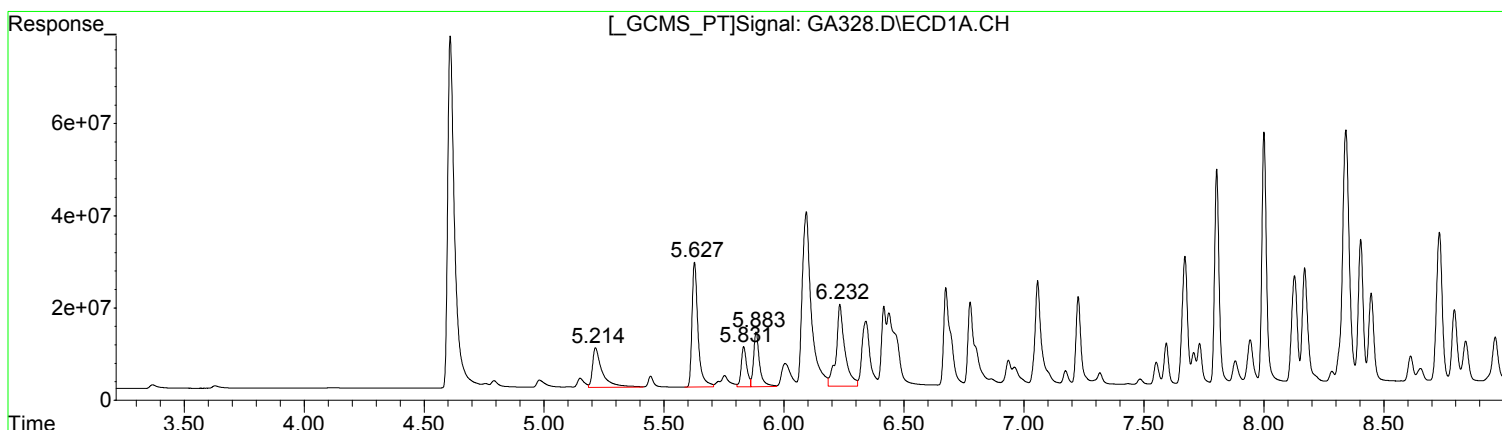
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA328.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:31 am  
Operator : M.Pedro  
Sample : ar1660m  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:13:39 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:13:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.21	245474491	741.24
5.63	472572344	672.11
5.83	139069609	724.74
5.88	204599786	707.58
6.23	450297515	711.27

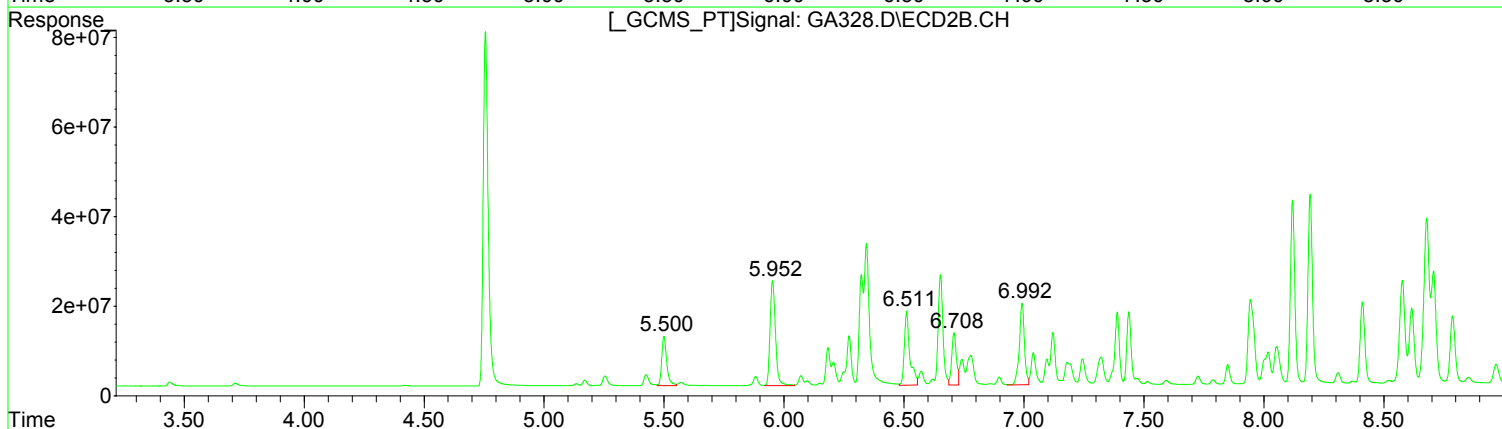
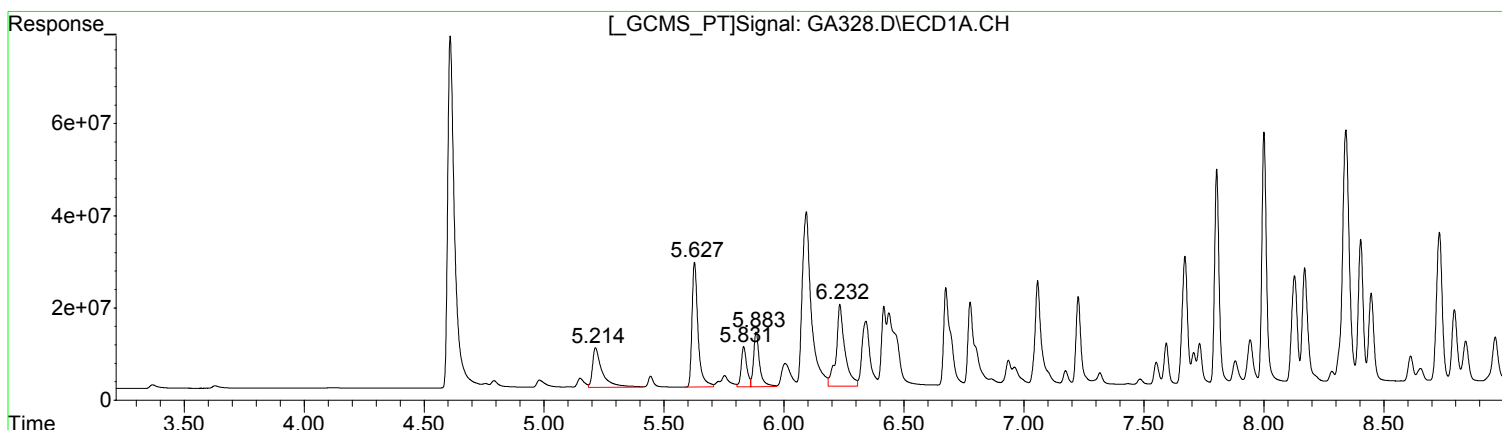
(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	159796673	650.66
5.95	364955134	643.87
6.51	222945876	651.80
6.71	156336003	662.82
6.99	269685224	670.44

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA328.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:31 am  
Operator : M.Pedro  
Sample : ar1660m  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:13:39 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:13:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.21	245474491	741.24
5.63	472572344	672.11
5.83	139069609	724.74
5.88	204599786	707.58
6.23	450297515	711.27

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	159796673	650.66
5.95	364955134	643.87
6.51	262995235	768.89
6.71	156336003	662.82
6.99	269685224	670.44

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA328.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 9:31 am  
 Operator : M.Pedro  
 Sample : ar1660m  
 Misc : initial cal  
 ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:13:39 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:13:31 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1546.1E6	1153.0E6	85.854	82.382
Spiked Amount	100.000	Range	30 - 150	Recovery =	85.85%	82.38%
2) S SURR2, Dec...	11.371	12.682	1177.1E6	940.0E6	81.737	79.149
Spiked Amount	100.000	Range	30 - 150	Recovery =	81.74%	79.15%
Target Compounds						
3) L1c PCB 1016	5.214	5.500	245.5E6	159.8E6	741.236	650.657
4) L1c PCB 1016{2}	5.627	5.952	472.6E6	365.0E6	672.109	643.872
5) L1c PCB 1016{3}	5.832	6.511	139.1E6	222.9E6	724.738	651.801m
6) L1c PCB 1016{4}	5.884	6.709	204.6E6	156.3E6	707.584	662.821
7) L1c PCB 1016{5}	6.233	6.992	450.3E6	269.7E6	711.273	670.438
Sum PCB 1016			1512.0E6	1173.7E6	3556.939	3279.589
Average PCB 1016					711.388	655.918
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.804	8.193	614.5E6	572.5E6	683.636	677.733
34) L7c PCB 1260{2}	8.001	9.174	748.6E6	358.3E6	669.830	706.884
35) L7c PCB 1260{3}	8.732	9.336	547.6E6	860.9E6	718.190	716.400
36) L7C PCB 1260{4}	9.049	10.073	1029.6E6	475.9E6	728.849	706.690
37) L7C PCB 1260{5}	10.486	10.948	250.3E6	296.7E6	730.373	701.955
Sum PCB 1260			3190.7E6	2564.3E6	3530.878	3509.661
Average PCB 1260					706.176	701.932
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

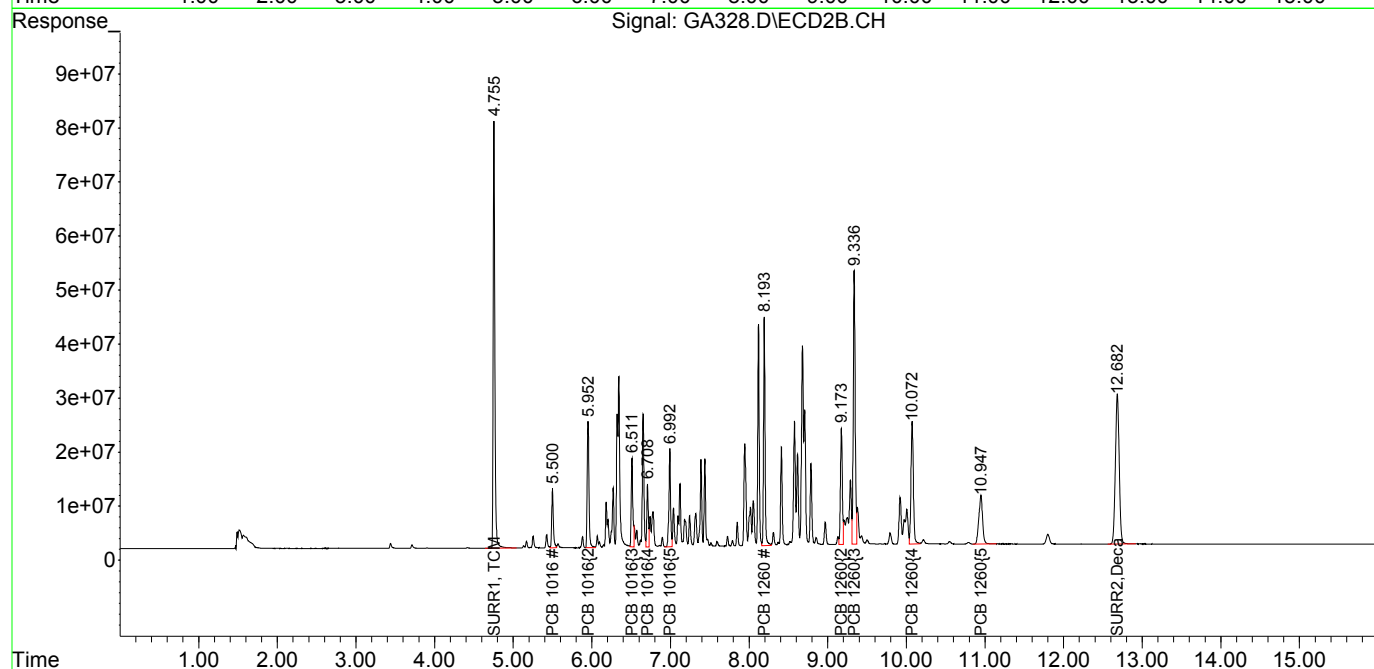
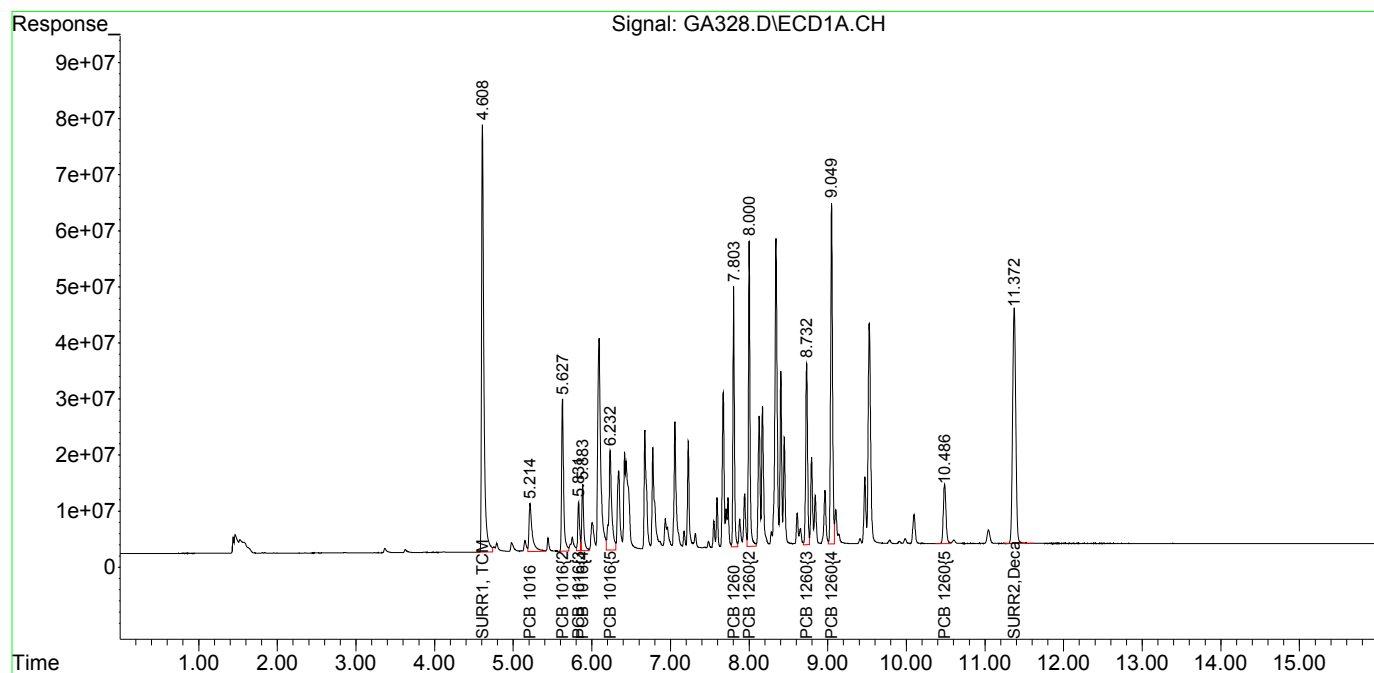




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA328.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:31 am  
Operator : M.Pedro  
Sample : ar1660m  
Misc : initial cal  
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:13:39 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:13:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA329.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 9:51 am  
 Operator : M.Pedro  
 Sample : ar1660h  
 Misc : initial cal  
 ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:14:49 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:14:40 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	2496.9E6	1854.6E6	135.535	133.032
Spiked Amount	100.000	Range	30 - 150	Recovery	= 135.54%	133.03%
2) S SURR2, Dec...	11.372	12.681	1968.3E6	1572.7E6	130.624	128.922
Spiked Amount	100.000	Range	30 - 150	Recovery	= 130.62%	128.92%
Target Compounds						
3) L1c PCB 1016	5.214	5.500	441.3E6	292.5E6	1281.037	1198.939
4) L1c PCB 1016{2}	5.626	5.952	870.2E6	667.3E6	1208.898	1176.557
5) L1c PCB 1016{3}	5.832	6.510	264.5E6	415.8E6	1345.835	1213.382m
6) L1c PCB 1016{4}	5.884	6.708	379.5E6	290.3E6	1259.673	1214.078
7) L1c PCB 1016{5}	6.233	6.993	832.7E6	505.7E6	1264.515	1250.369
Sum PCB 1016			2788.2E6	2171.7E6	6359.958	6053.324
Average PCB 1016					1271.992	1210.665
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.804	8.194	1159.2E6	1072.0E6	1227.003	1226.136
34) L7c PCB 1260{2}	8.001	9.175	1415.8E6	677.5E6	1203.097	1282.056
35) L7c PCB 1260{3}	8.731	9.340	1053.8E6	1656.4E6	1303.943	1324.435
36) L7C PCB 1260{4}	9.049	10.076	2010.3E6	922.1E6	1346.222	1311.700
37) L7C PCB 1260{5}	10.487	10.951	492.1E6	583.9E6	1360.909	1329.406
Sum PCB 1260			6131.3E6	4912.0E6	6441.175	6473.733
Average PCB 1260					1288.235	1294.747
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

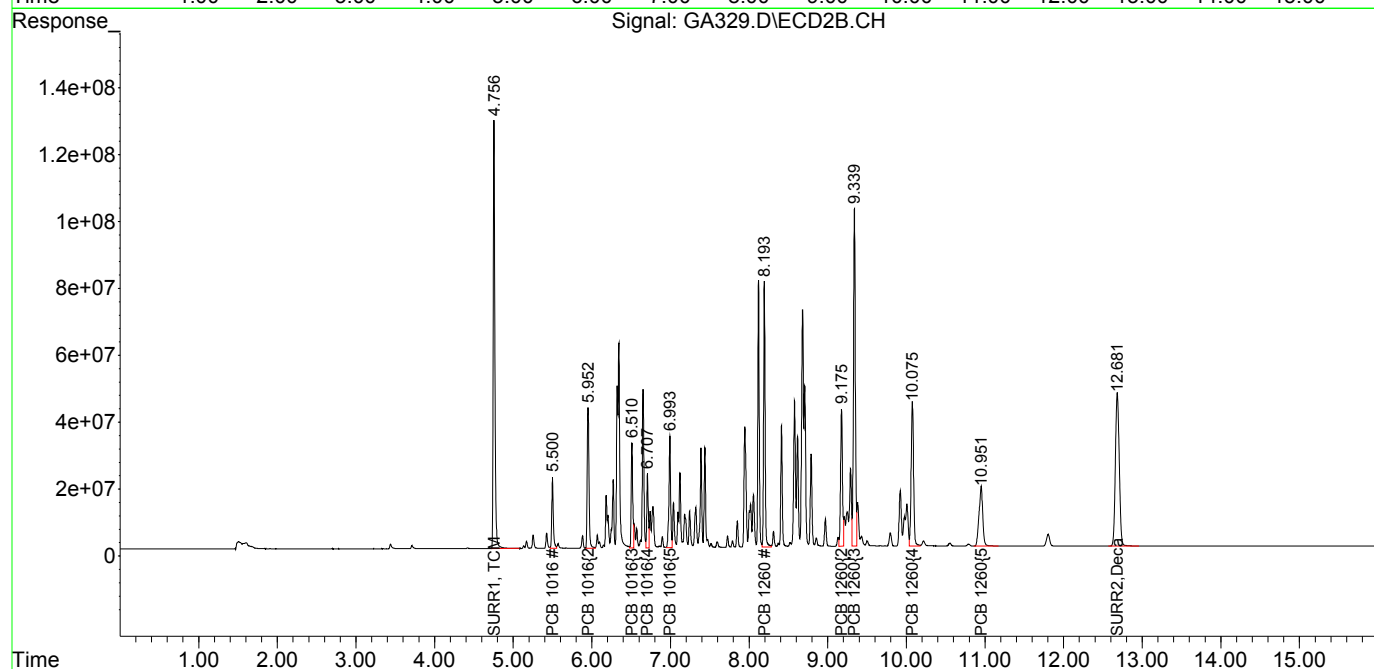
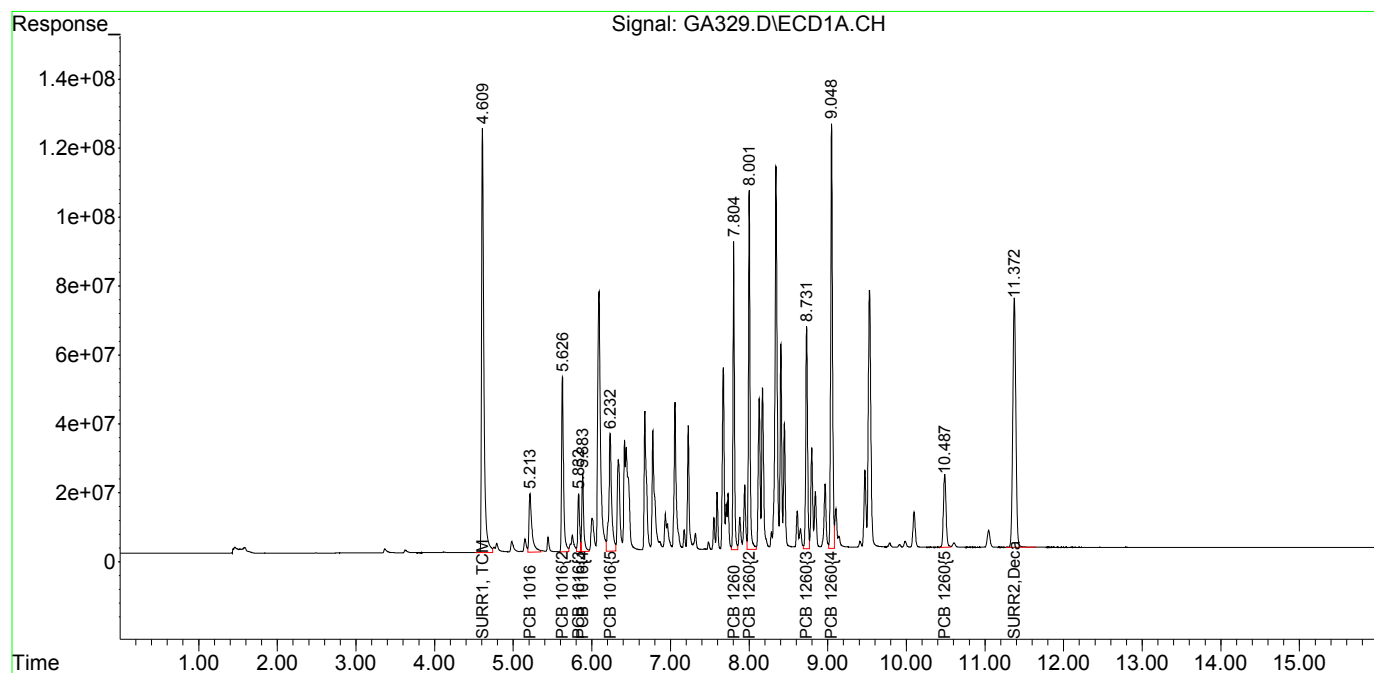
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA329.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:51 am  
Operator : M.Pedro  
Sample : ar1660h  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:14:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:14:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

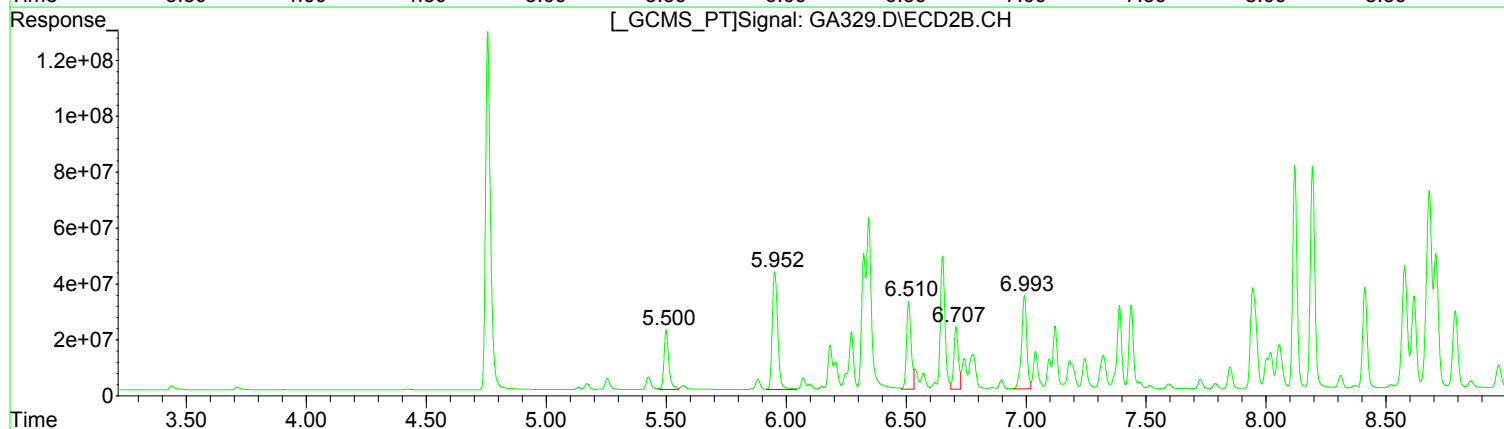
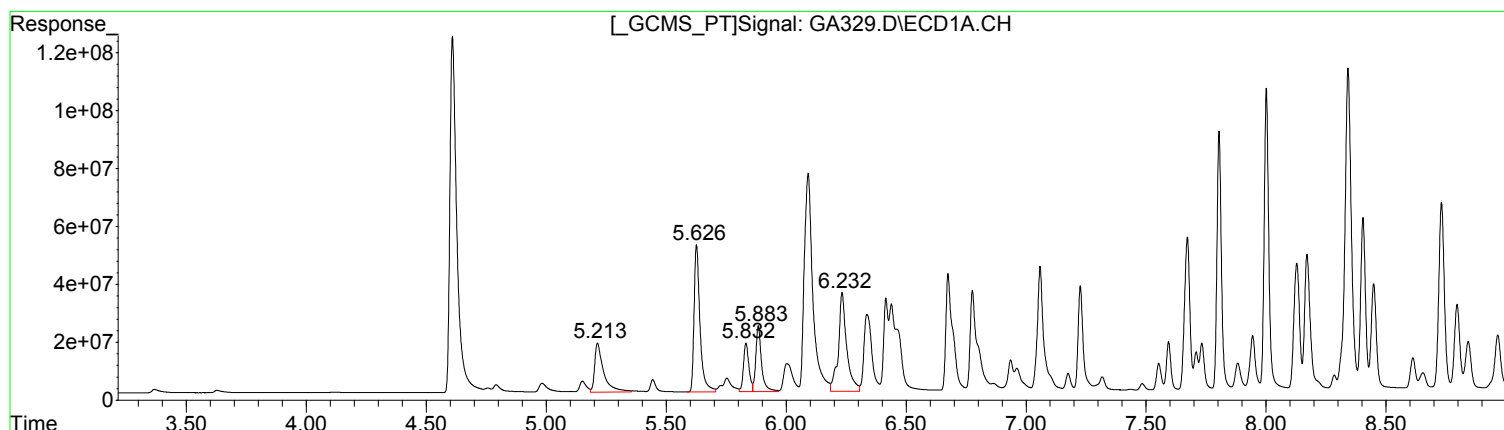
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA329.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:51 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:14:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:14:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	441315089	1281.04
5.63	870184822	1208.90
5.83	264506120	1345.84
5.88	379484709	1259.67
6.23	832724708	1264.52

(3) PCB 1016 #2 (L1c)

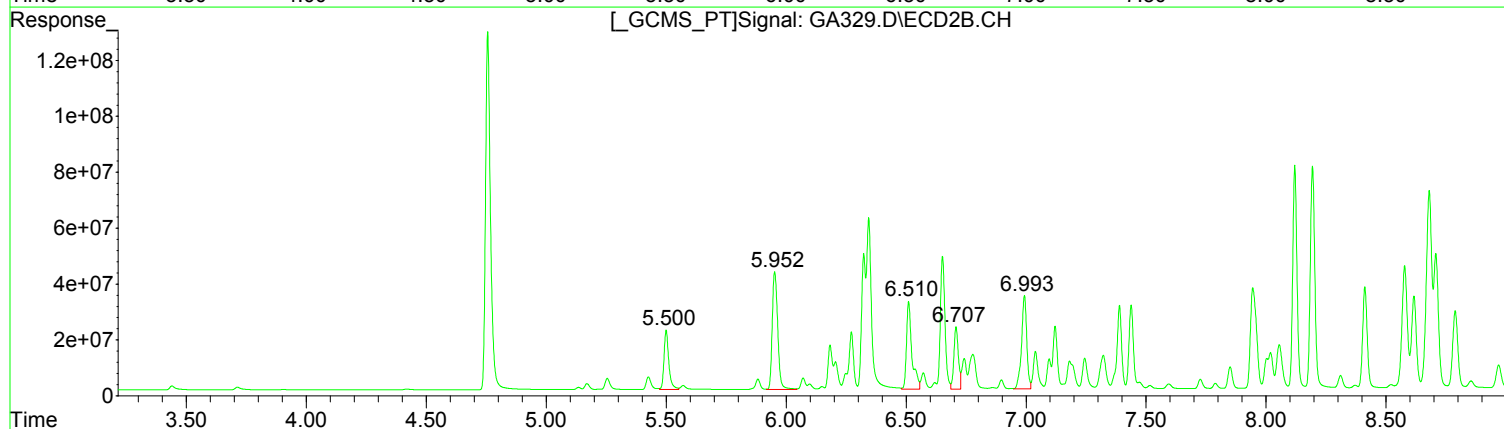
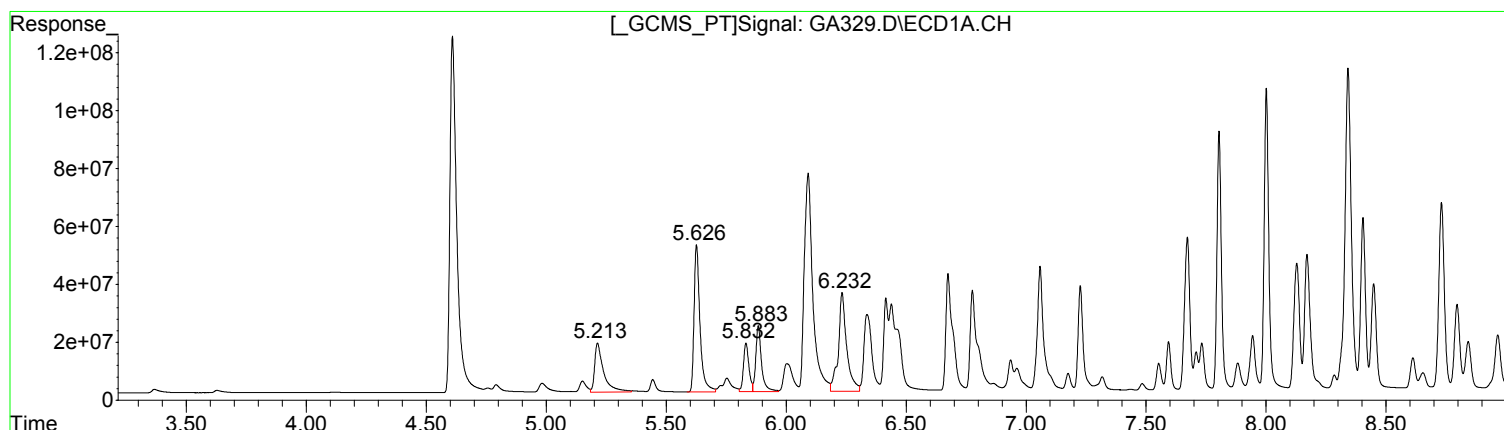
R.T.	Response	Conc
5.50	292491954	1198.94
5.95	667337892	1176.56
6.51	415791339	1213.38
6.71	290321067	1214.08
6.99	505712460	1250.37

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA329.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 9:51 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:14:49 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:14:40 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.21	441315089	1281.04
5.63	870184822	1208.90
5.83	264506120	1345.84
5.88	379484709	1259.67
6.23	832724708	1264.52

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	292491954	1198.94
5.95	667337892	1176.56
6.51	491219651	1433.50
6.71	290321067	1214.08
6.99	505712460	1250.37

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA330.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:11 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:15:53 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:15:46 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1821.9E6	1350.6E6	80.851	79.526
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.85%	79.53%
2) S SURR2, Dec...	11.371	12.685	1420.7E6	1136.9E6	77.686	76.975
Spiked Amount	100.000	Range	30 - 150	Recovery	= 77.69%	76.97%
Target Compounds						
3) L1c PCB 1016	5.214	5.500	318.5E6	207.5E6	739.749	690.550
4) L1c PCB 1016{2}	5.627	5.952	611.8E6	469.4E6	688.410	674.215
5) L1c PCB 1016{3}	5.833	6.510	181.9E6	341.1E6	731.868	804.436
6) L1c PCB 1016{4}	5.884	6.708	265.0E6	203.0E6	706.330	687.261
7) L1c PCB 1016{5}	6.233	6.992	579.6E6	350.5E6	704.242	696.622
Sum PCB 1016			1956.8E6	1571.5E6	3570.598	3553.084
Average PCB 1016					714.120	710.617
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
33) L7c PCB 1260	7.805	8.194	798.7E6	744.0E6	682.698	687.237
34) L7c PCB 1260{2}	8.002	9.175	975.3E6	469.9E6	672.126	710.611
35) L7c PCB 1260{3}	8.733	9.337	717.8E6	1137.4E6	707.463	721.129
36) L7C PCB 1260{4}	9.050	10.076	1361.1E6	629.1E6	720.065	711.444
37) L7C PCB 1260{5}	10.488	10.948	333.3E6	396.2E6	726.201	714.504
Sum PCB 1260			4186.2E6	3376.7E6	3508.555	3544.925
Average PCB 1260					701.711	708.985
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

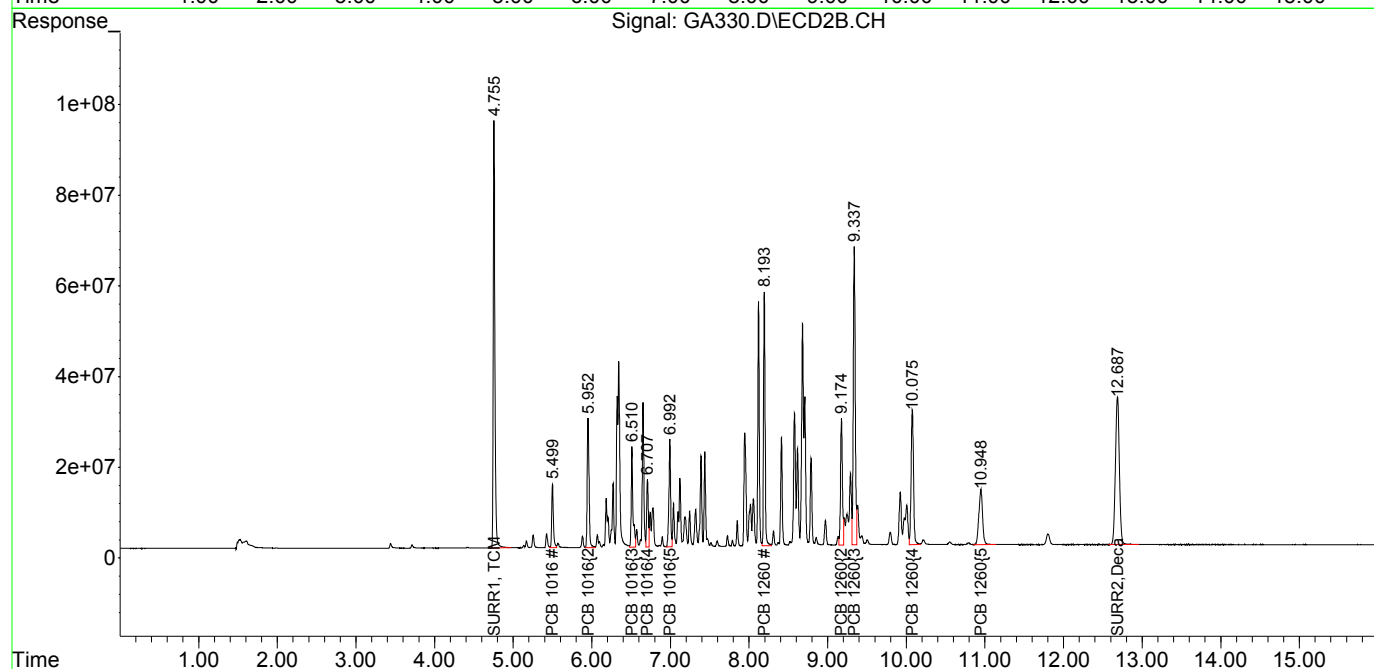
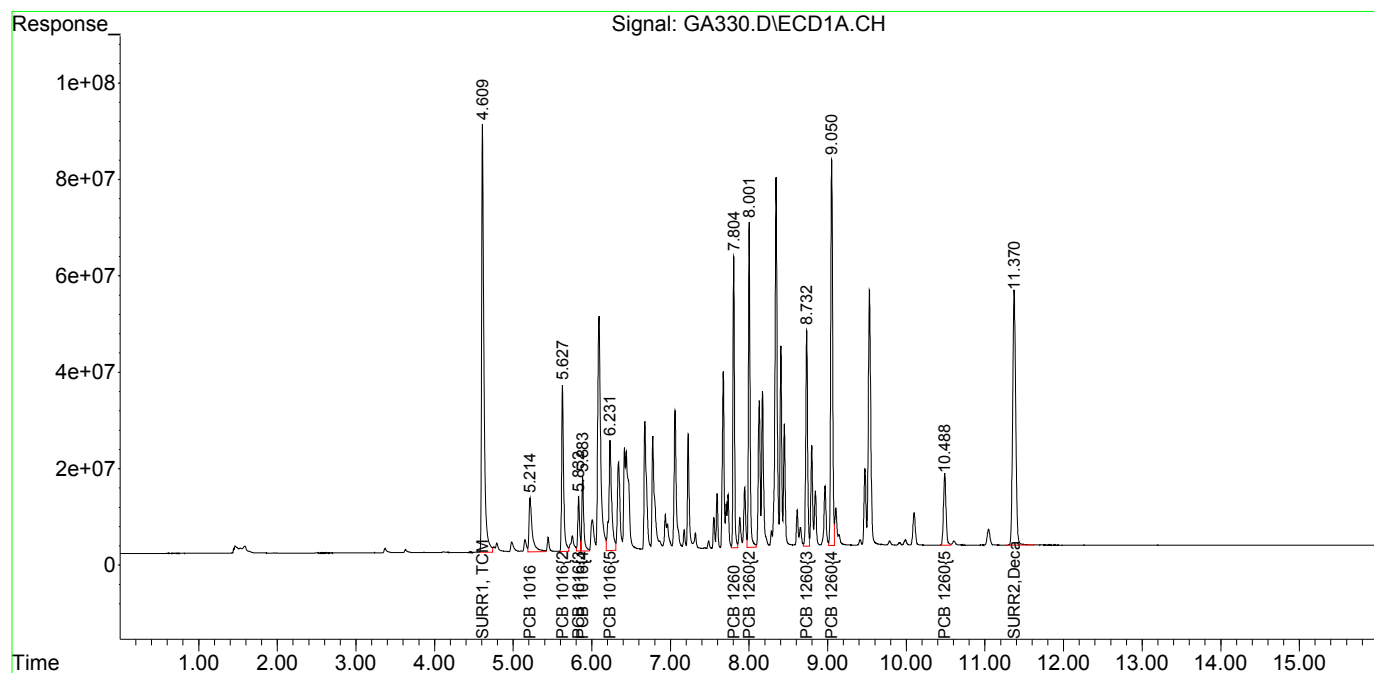




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA330.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:11 am  
Operator : M.Pedro  
Sample : ar1660mh  
Misc : initial cal  
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:15:53 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:15:46 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA331.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:30 am  
Operator : M.Pedro  
Sample : ar1221/1254 1  
Misc : initial cal  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:19:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:18:22 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	512.9E6	392.6E6	20.353	20.713
Spiked Amount	100.000	Range	30 - 150	Recovery	= 20.35%#	20.71%#
2) S SURR2,Dec...	11.372	12.686	430.3E6	345.5E6	21.149	21.046
Spiked Amount	100.000	Range	30 - 150	Recovery	= 21.15%#	21.05%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.112	4.419	41965495	31815394	243.126	221.007
9) L2c PCB 1221{2}	4.982	5.254	56663508	45942307	235.154	221.128
10) L2c PCB 1221{3}	5.151	5.425	31099085	29575185	206.824	220.840
11) L2c PCB 1221{4}	5.217	5.501	145.8E6	91990384	246.297	217.011
12) L2c PCB 1221{5}	5.629	5.572	18956601	16672416	233.444	246.578
Sum PCB 1221			294.5E6	216.0E6	1164.845	1126.564
Average PCB 1221					232.969	225.313
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.486	7.438	51295955	90262491	138.481	129.986
29) L6c PCB 1254{2}	7.554	7.851	80132393	67594748	135.512	129.284
30) L6c PCB 1254{3}	7.664	8.063	182.3E6	100.4E6	147.004	128.831
31) L6c PCB 1254{4}	7.807	8.681	93969124	104.8E6	142.810	131.025
32) L6c PCB 1254{5}	8.726	9.242	44006379	51365470	134.673	126.428
Sum PCB 1254			451.7E6	414.4E6	698.480	645.554
Average PCB 1254					139.696	129.111
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

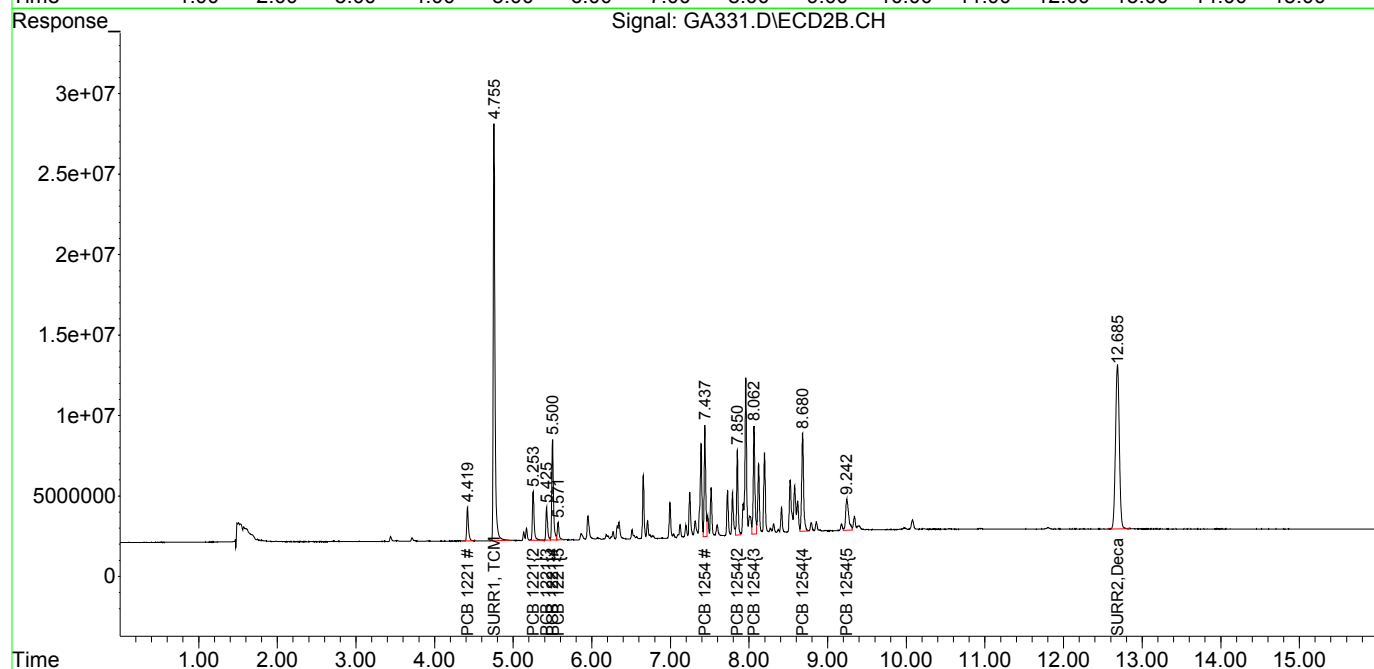
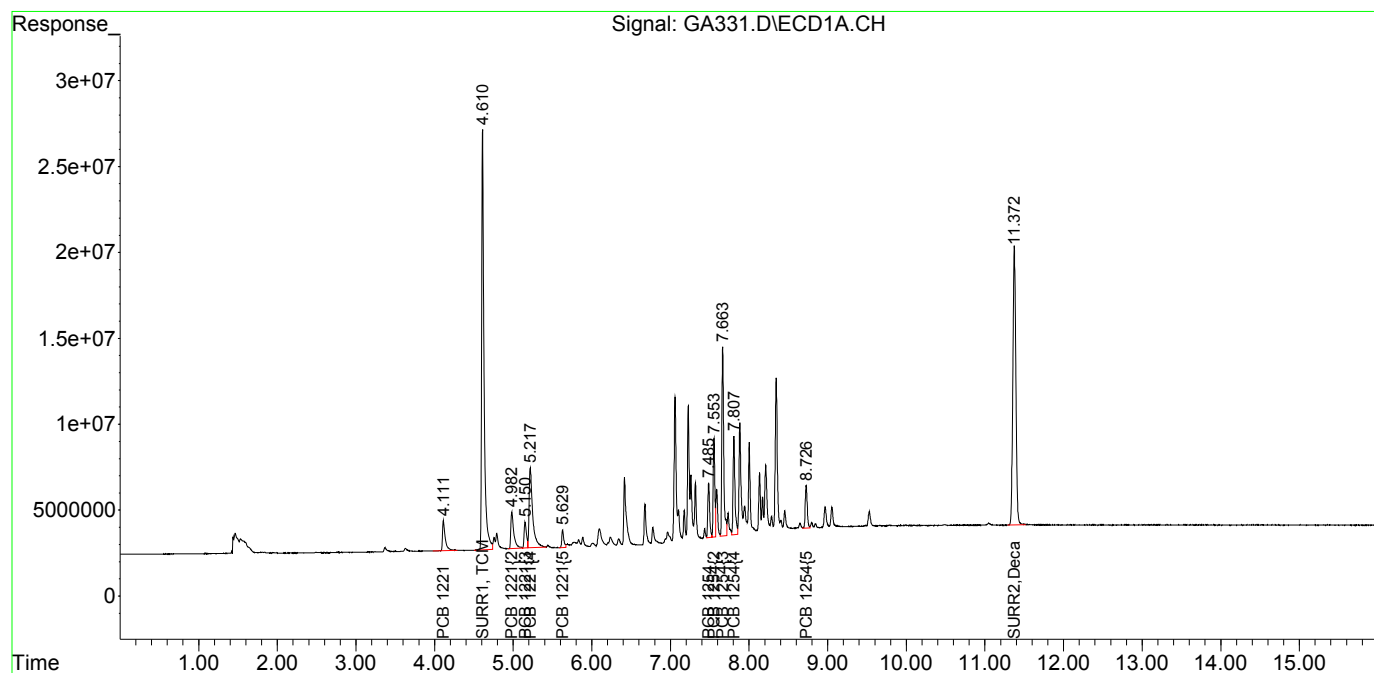
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA331.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:30 am  
Operator : M.Pedro  
Sample : ar1221/1254 1  
Misc : initial cal  
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:19:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:18:22 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

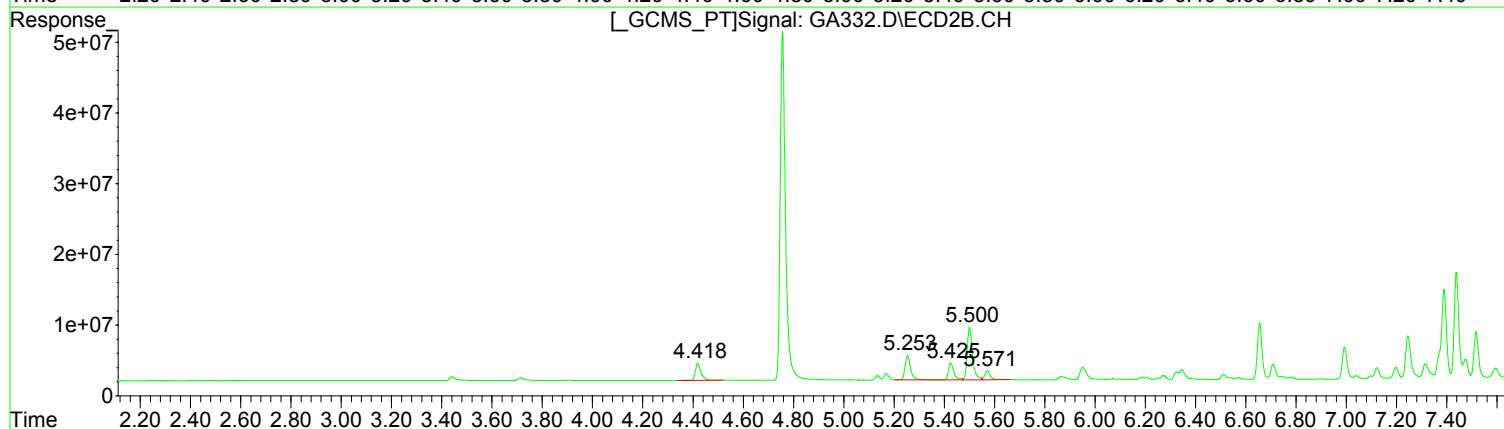
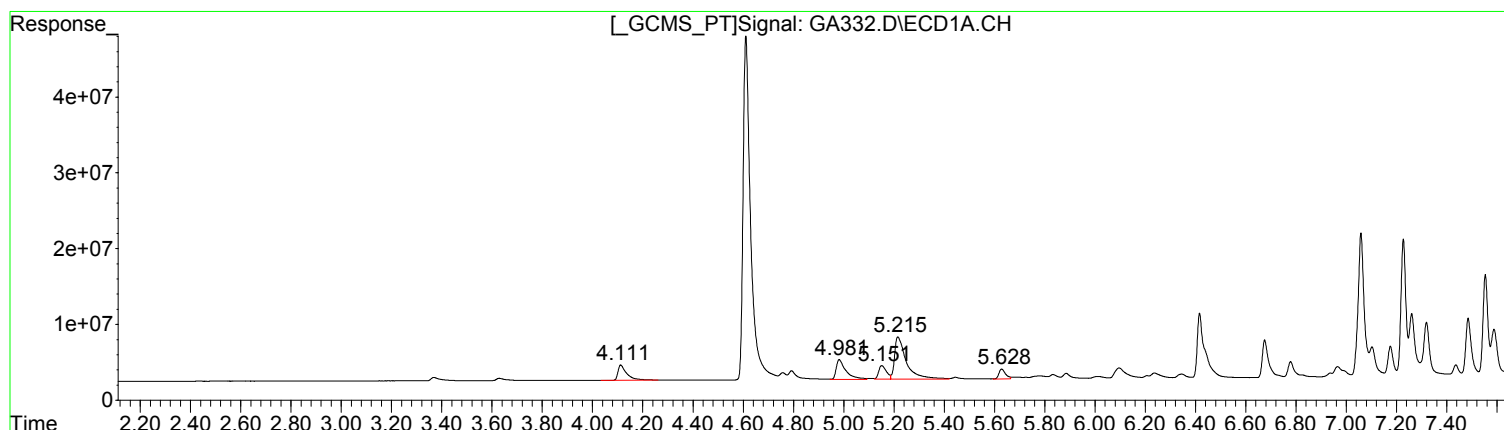
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase: DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) PCB 1221 (L2c)

R.T.	Response	Conc
4.11	49061894	267.00
4.98	71271822	277.52
5.15	39197273	256.00
5.22	181321991	284.51
5.63	24063805	274.85

Manual Integration:  
After  
Poor integration.  
01/11/18

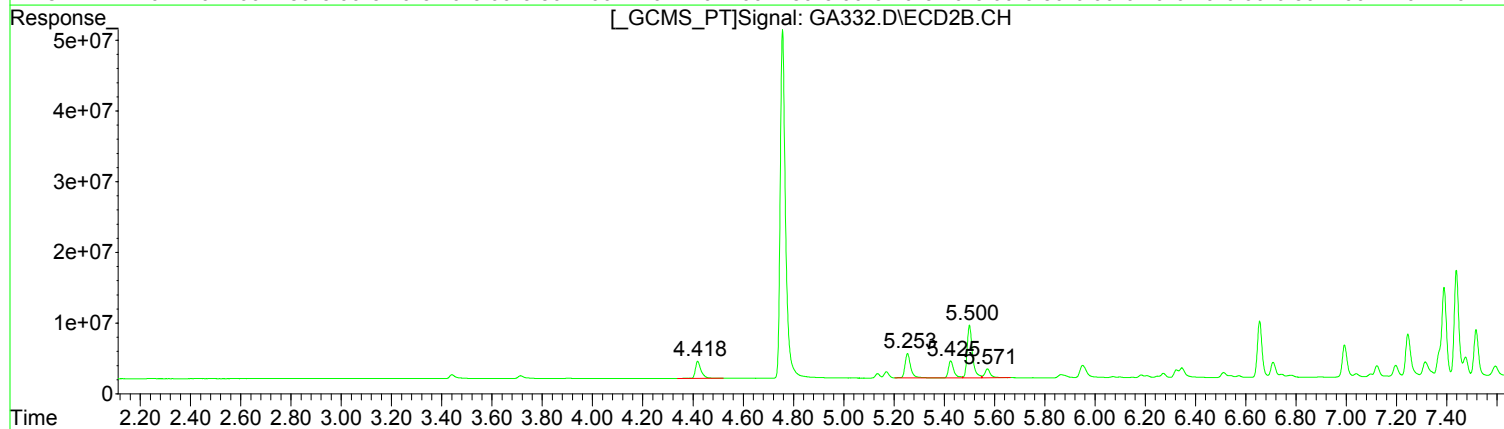
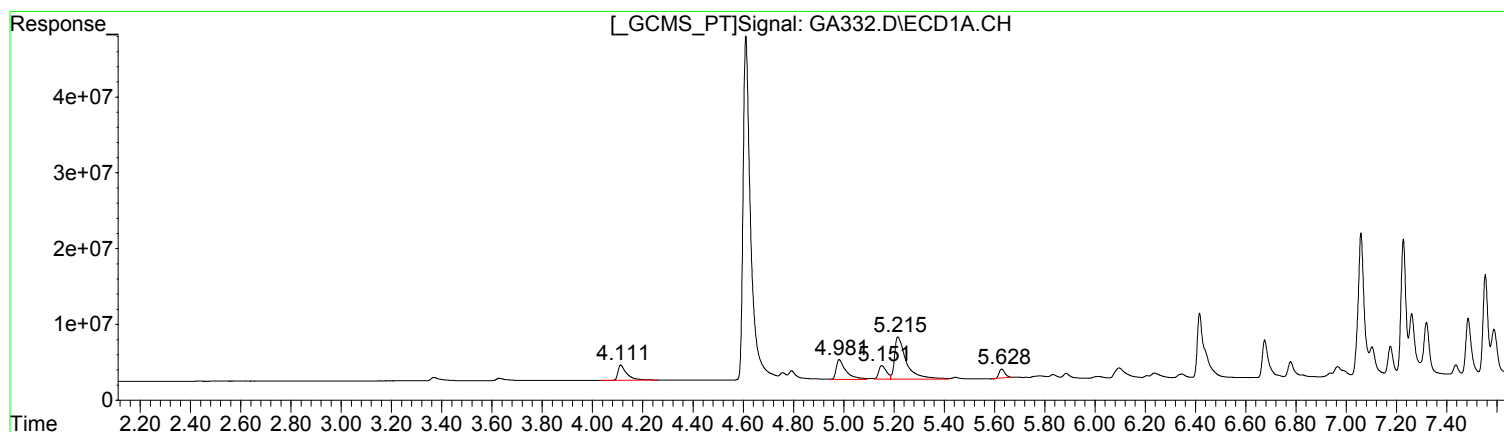
(8) PCB 1221 #2 (L2c)

R.T.	Response	Conc
4.42	37522328	256.46
5.25	54658985	255.30
5.43	35421735	256.40
5.50	109260336	251.85
5.57	19845749	271.82

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(8) PCB 1221 (L2c)

R.T.	Response	Conc
4.11	49061894	267.00
4.98	71271822	277.52
5.15	39197273	256.00
5.22	181321991	284.51
5.63	18556664	211.95

Manual Integration:  
Before  
01/11/18

(8) PCB 1221 #2 (L2c)

R.T.	Response	Conc
4.42	37522328	256.46
5.25	54658985	255.30
5.43	35421735	256.40
5.50	109260336	251.85
5.57	19845749	271.82

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.756	955.8E6	727.2E6	38.054	38.395
Spiked Amount	100.000	Range	30 - 150	Recovery	= 38.05%	38.40%
2) S SURR2, Dec...	11.374	12.686	766.0E6	614.4E6	37.528	37.299
Spiked Amount	100.000	Range	30 - 150	Recovery	= 37.53%	37.30%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.112	4.419	49061894	37522328	267.004	256.461
9) L2c PCB 1221{2}	4.982	5.254	71271822	54658985	277.515	255.298
10) L2c PCB 1221{3}	5.152	5.426	39197273	35421735	255.995	256.395
11) L2c PCB 1221{4}	5.215	5.501	181.3E6	109.3E6	284.506	251.848
12) L2c PCB 1221{5}	5.628	5.572	24063805	19845749	274.848m	271.824
Sum PCB 1221			364.9E6	256.7E6	1359.868	1291.825
Average PCB 1221					271.974	258.365
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.438	117.2E6	192.7E6	281.967	254.656
29) L6c PCB 1254{2}	7.554	7.851	179.3E6	151.0E6	271.396	264.175
30) L6c PCB 1254{3}	7.665	8.064	386.1E6	215.4E6	270.129	256.042
31) L6c PCB 1254{4}	7.806	8.680	209.1E6	228.3E6	282.978	264.331
32) L6c PCB 1254{5}	8.726	9.243	101.1E6	112.5E6	287.486	254.355
Sum PCB 1254			992.8E6	899.9E6	1393.956	1293.559
Average PCB 1254					278.791	258.712
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

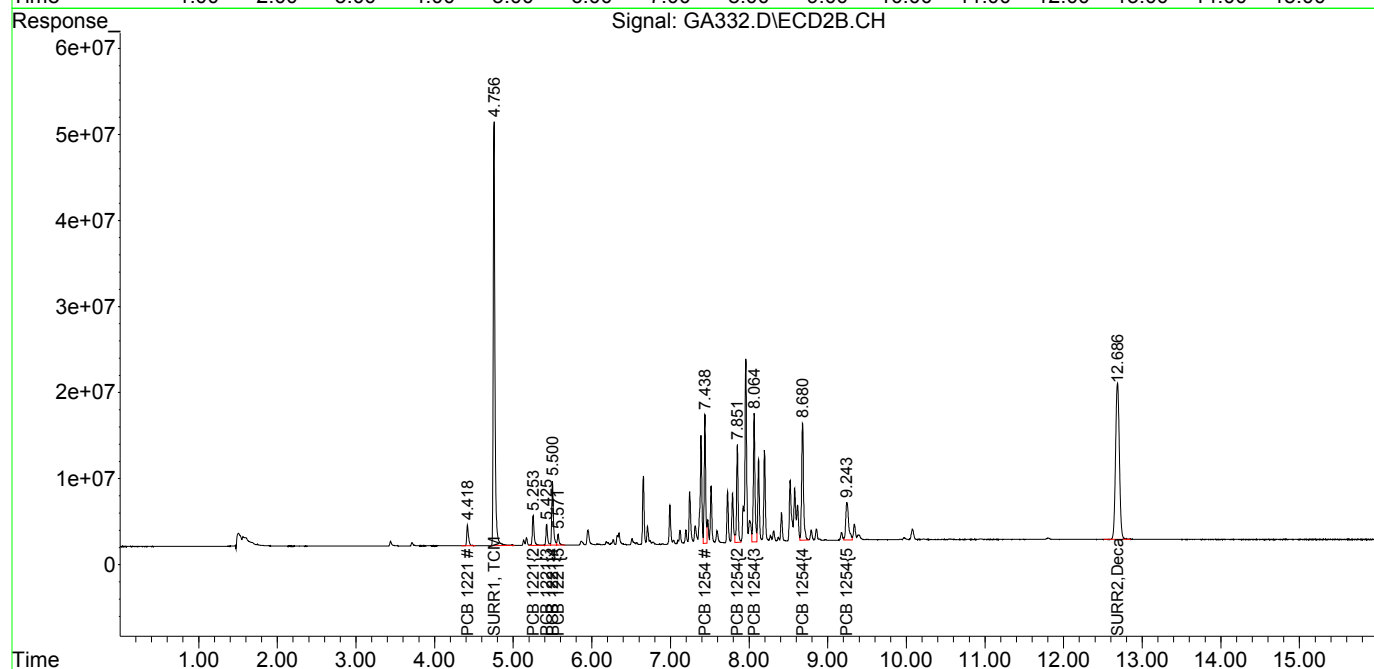
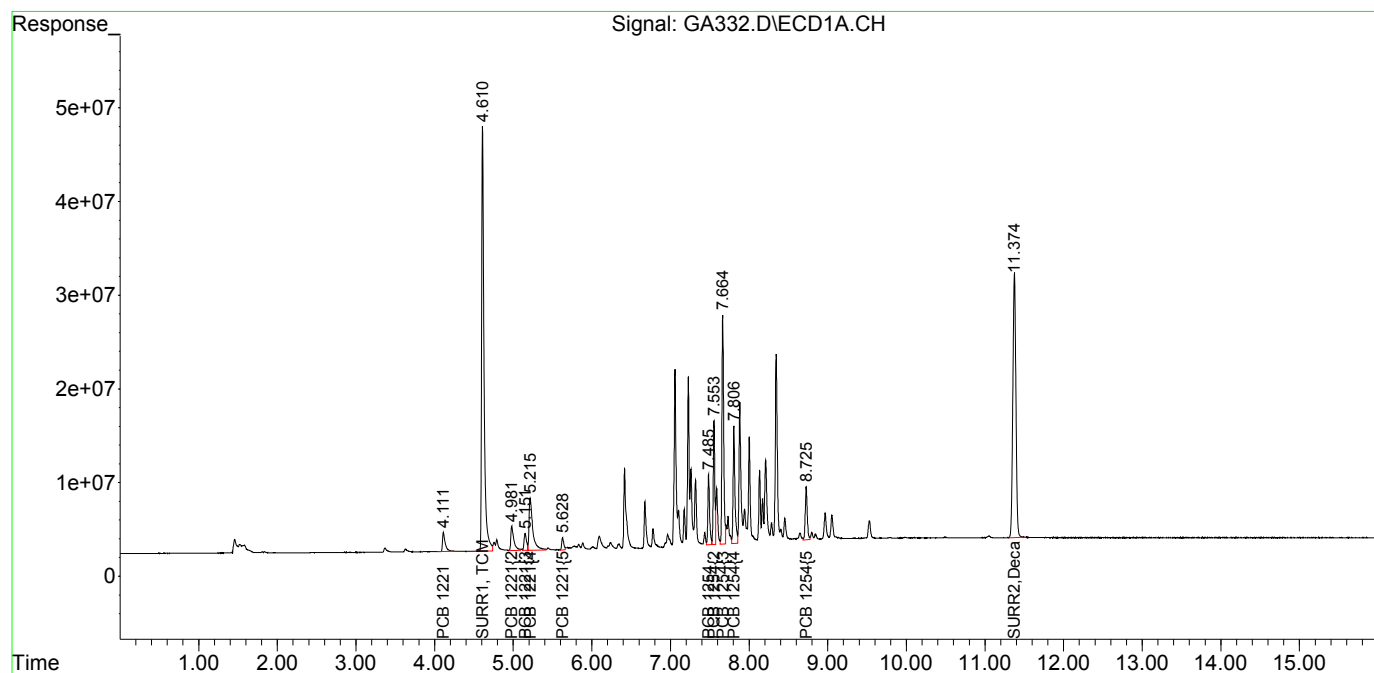




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA332.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 10:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 ml  
Misc : initial cal  
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:20:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:19:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA333.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 11:09 am  
 Operator : M.Pedro  
 Sample : ar1221/1254 m  
 Misc : initial cal  
 ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:21:14 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:21:05 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1488.9E6	1134.9E6	59.868	60.399
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.87%	60.40%
2) S SURR2, Dec...	11.372	12.689	1207.2E6	964.4E6	59.613	59.014
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.61%	59.01%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.110	4.418	99026904	71857496	538.923	491.138
9) L2c PCB 1221{2}	4.982	5.254	143.3E6	108.7E6	557.902	507.488
10) L2c PCB 1221{3}	5.151	5.425	80745192	70035972	527.343	506.946
11) L2c PCB 1221{4}	5.214	5.500	364.4E6	217.3E6	571.807	500.780
12) L2c PCB 1221{5}	5.629	5.571	51081796	41744635	583.438	571.769
Sum PCB 1221			738.6E6	509.5E6	2779.413	2578.120
Average PCB 1221					555.883	515.624
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.439	251.1E6	405.8E6	604.101	536.237
29) L6c PCB 1254{2}	7.552	7.851	388.1E6	325.7E6	587.227	569.669
30) L6c PCB 1254{3}	7.663	8.063	830.4E6	462.6E6	581.035	549.953
31) L6c PCB 1254{4}	7.806	8.681	442.6E6	501.2E6	599.062	580.327
32) L6c PCB 1254{5}	8.725	9.245	221.7E6	245.6E6	630.289	555.341
Sum PCB 1254			2134.0E6	1940.8E6	3001.714	2791.527
Average PCB 1254					600.343	558.305
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

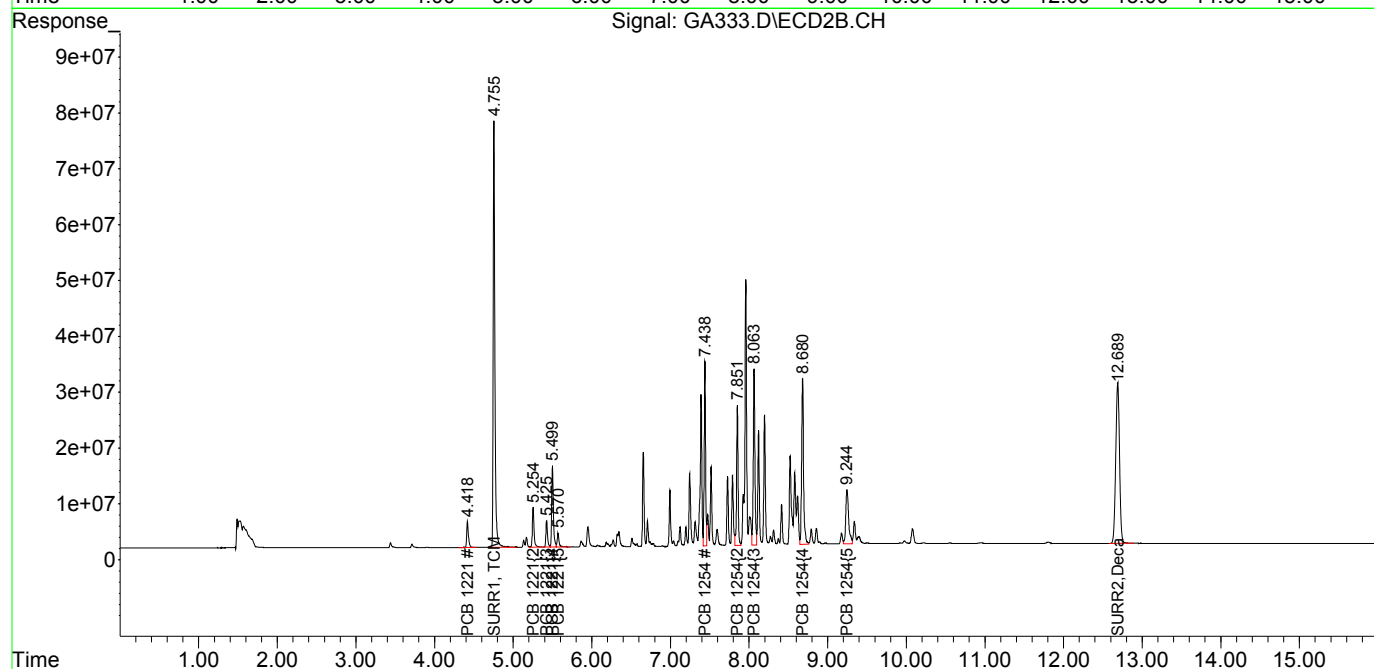
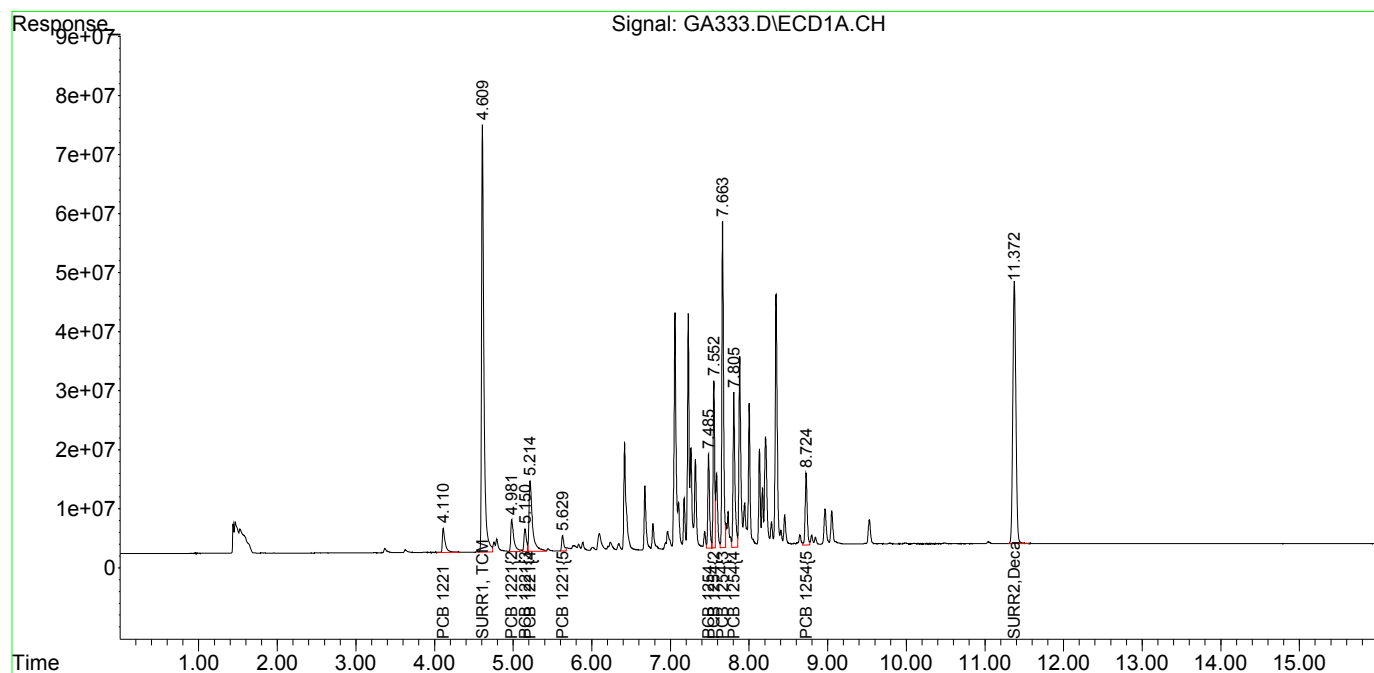
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA333.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:09 am  
Operator : M.Pedro  
Sample : ar1221/1254 m  
Misc : initial cal  
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:21:14 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:21:05 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA334.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 11:29 am  
 Operator : M.Pedro  
 Sample : ar1221/1254 mh  
 Misc : initial cal  
 ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:22:02 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:21:54 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1994.3E6	1526.5E6	80.705	81.456
Spiked Amount	100.000	Range	30 - 150	Recovery	= 80.70%	81.46%
2) S SURR2, Dec...	11.371	12.685	1607.0E6	1292.3E6	79.032	78.751
Spiked Amount	100.000	Range	30 - 150	Recovery	= 79.03%	78.75%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.111	4.419	146.7E6	105.7E6	760.975	717.057
9) L2c PCB 1221{2}	4.982	5.253	219.1E6	163.4E6	801.986	745.686
10) L2c PCB 1221{3}	5.150	5.426	124.2E6	105.4E6	788.271	748.336
11) L2c PCB 1221{4}	5.214	5.500	550.1E6	327.3E6	802.511	744.708
12) L2c PCB 1221{5}	5.629	5.571	74322056	61777709	787.322	788.495
Sum PCB 1221			1114.5E6	763.6E6	3941.065	3744.282
Average PCB 1221					788.213	748.856
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.438	369.4E6	602.6E6	793.706	748.706
29) L6c PCB 1254{2}	7.553	7.850	577.7E6	469.5E6	791.216	760.727
30) L6c PCB 1254{3}	7.663	8.063	1234.1E6	689.8E6	778.208	764.258
31) L6c PCB 1254{4}	7.806	8.679	650.7E6	746.5E6	785.834	788.724
32) L6c PCB 1254{5}	8.725	9.242	322.5E6	366.9E6	802.847	803.681
Sum PCB 1254			3154.3E6	2875.3E6	3951.812	3866.096
Average PCB 1254					790.362	773.219
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

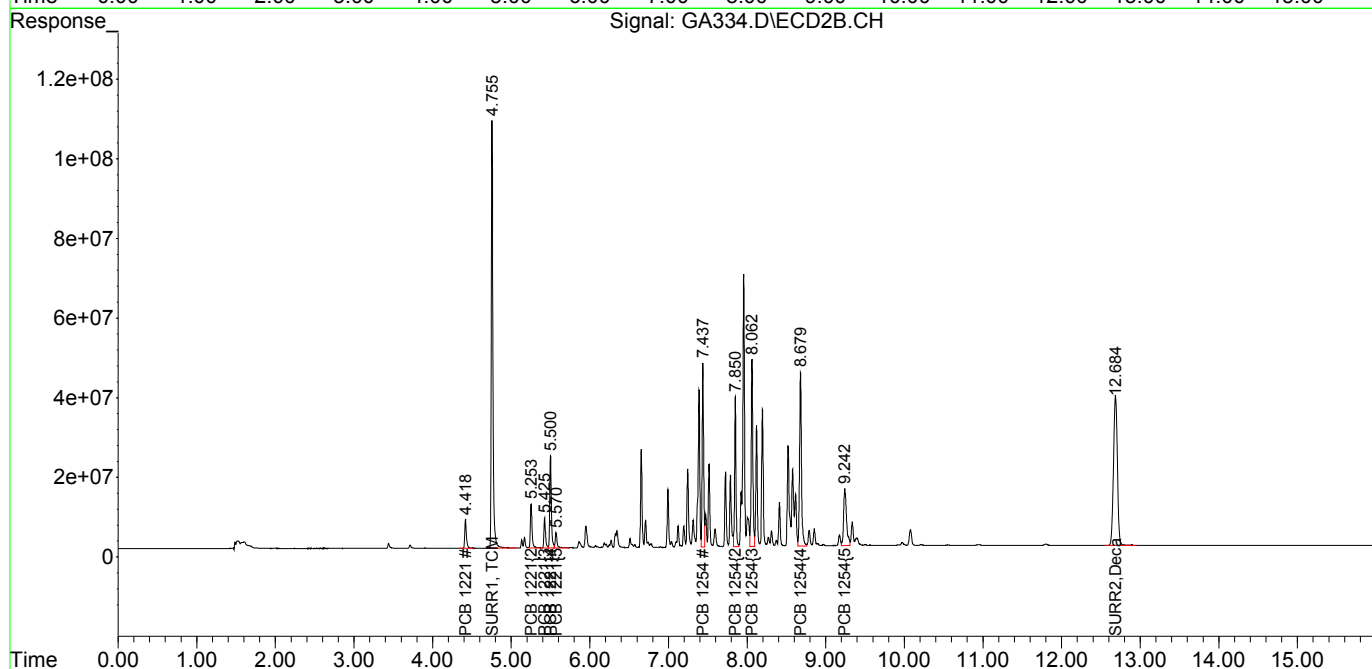
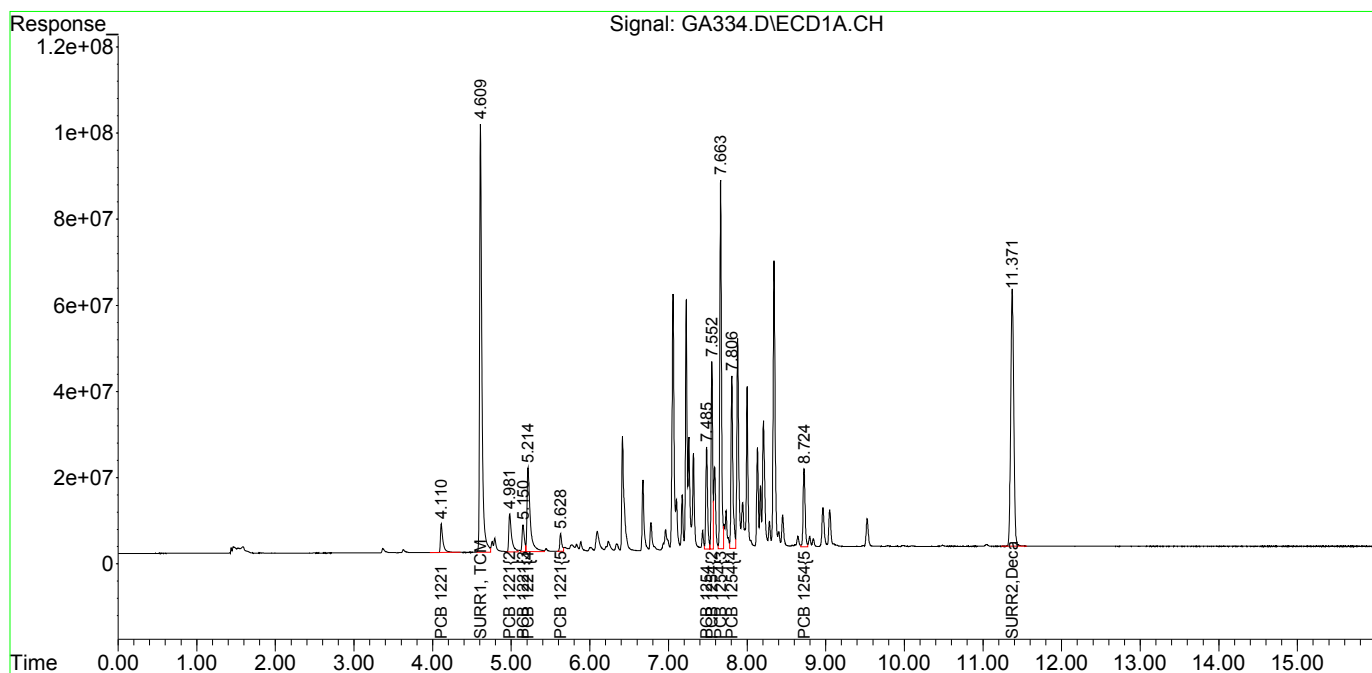
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA334.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:29 am  
Operator : M.Pedro  
Sample : ar1221/1254 mh  
Misc : initial cal  
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:22:02 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:21:54 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA335.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 11:50 am  
 Operator : M.Pedro  
 Sample : ar1221/1254 h  
 Misc : initial cal  
 ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:22:48 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:22:38 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2458.0E6	1885.7E6	98.047	98.692
Spiked Amount	100.000	Range	30 - 150	Recovery =	98.05%	98.69%
2) S SURR2, Dec...	11.373	12.685	1996.5E6	1596.6E6	96.347	95.409
Spiked Amount	100.000	Range	30 - 150	Recovery =	96.35%	95.41%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
8) L2c PCB 1221	4.110	4.417	187.6E6	133.7E6	972.967	907.063
9) L2c PCB 1221{2}	4.981	5.252	282.7E6	211.6E6	1034.729	965.381
10) L2c PCB 1221{3}	5.150	5.424	161.1E6	134.3E6	1022.956	953.538
11) L2c PCB 1221{4}	5.213	5.498	703.9E6	416.9E6	1026.849	948.610
12) L2c PCB 1221{5}	5.629	5.569	97306409	77924943	1030.804	994.589
Sum PCB 1221			1432.7E6	974.4E6	5088.305	4769.180
Average PCB 1221					1017.661	953.836
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
28) L6c PCB 1254	7.485	7.437	477.1E6	773.2E6	1025.110	960.594
29) L6c PCB 1254{2}	7.553	7.850	752.2E6	608.6E6	1030.266	986.054
30) L6c PCB 1254{3}	7.664	8.062	1596.5E6	884.9E6	1006.762	980.519
31) L6c PCB 1254{4}	7.806	8.679	839.5E6	963.1E6	1013.872	1017.637
32) L6c PCB 1254{5}	8.725	9.243	418.3E6	475.4E6	1041.235	1041.201
Sum PCB 1254			4083.6E6	3705.2E6	5117.244	4986.004
Average PCB 1254					1023.449	997.201
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

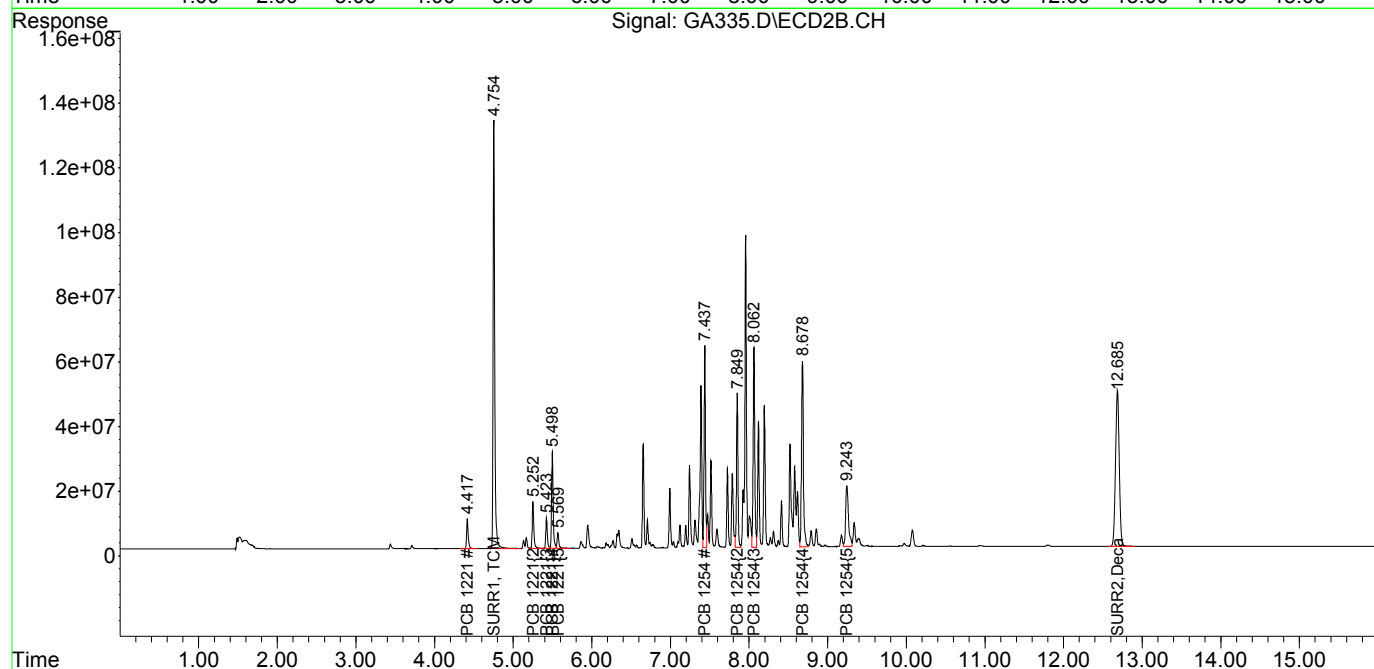
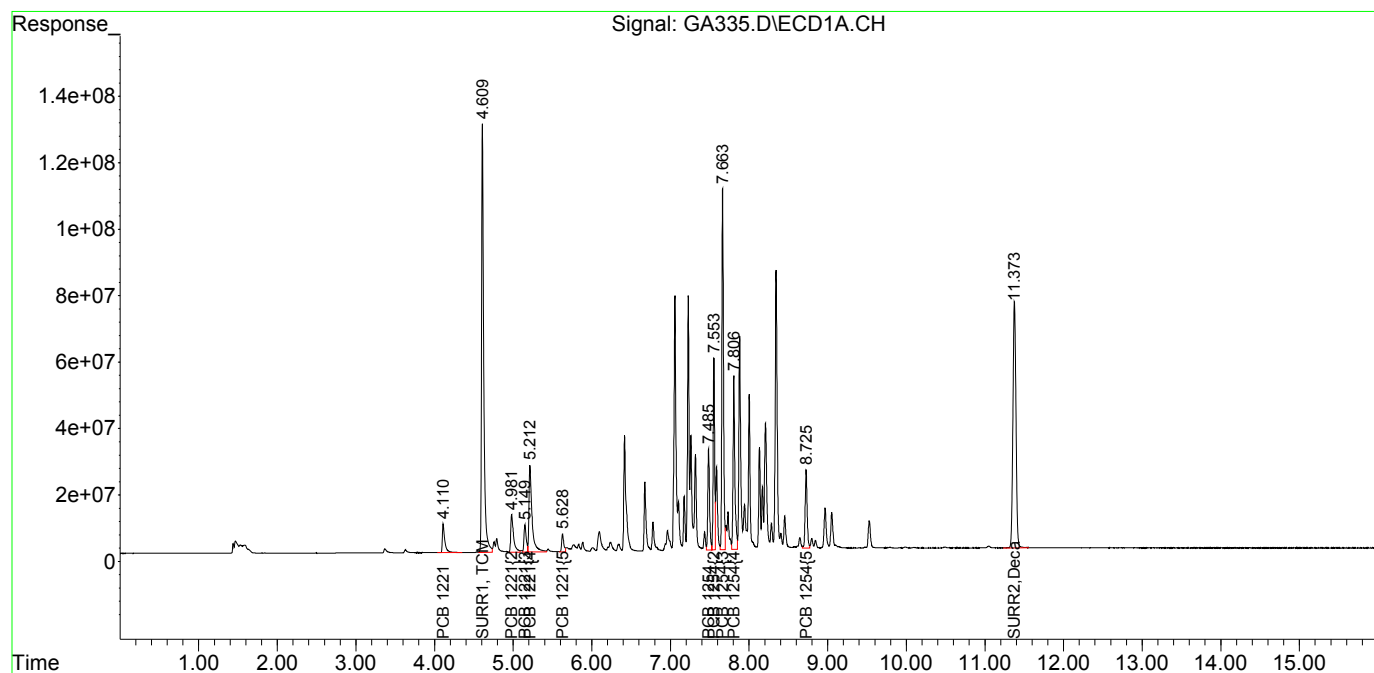
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA335.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 11:50 am  
Operator : M.Pedro  
Sample : ar1221/1254 h  
Misc : initial cal  
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:22:48 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:22:38 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA336.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 12:09 pm  
 Operator : M.Pedro  
 Sample : ar1232 1  
 Misc : initial cal  
 ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:23:50 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:23:31 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

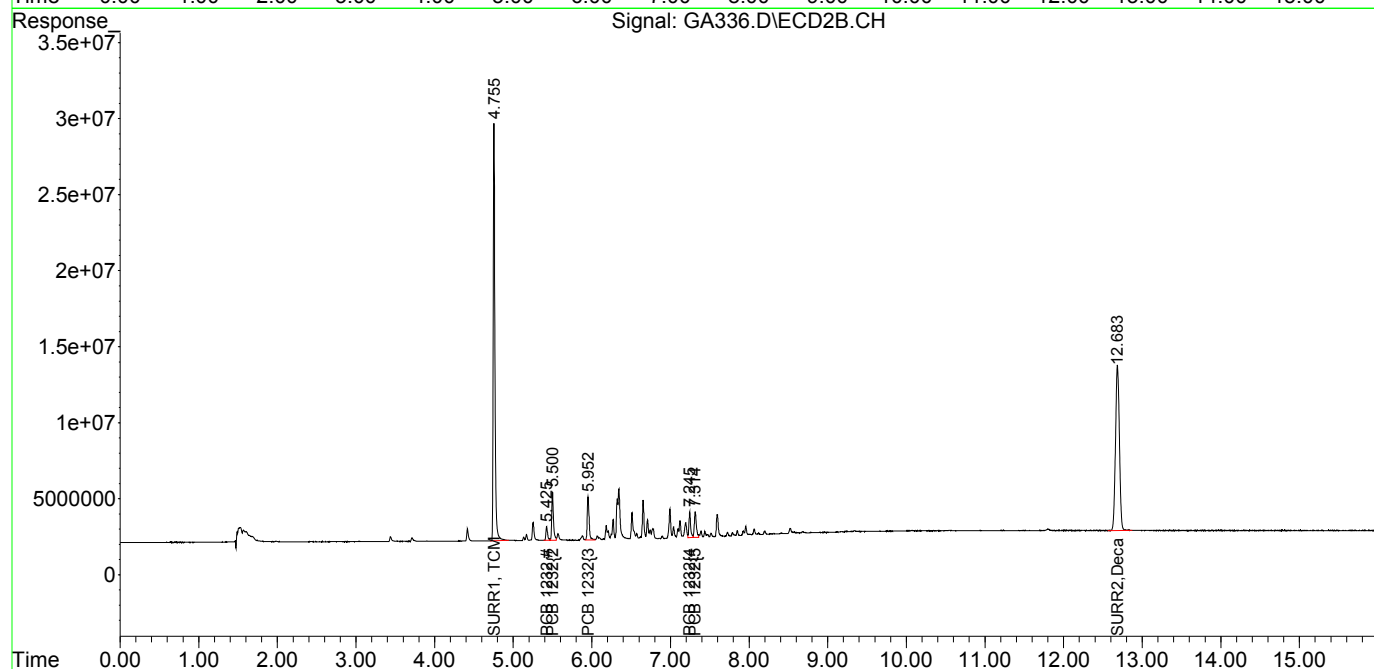
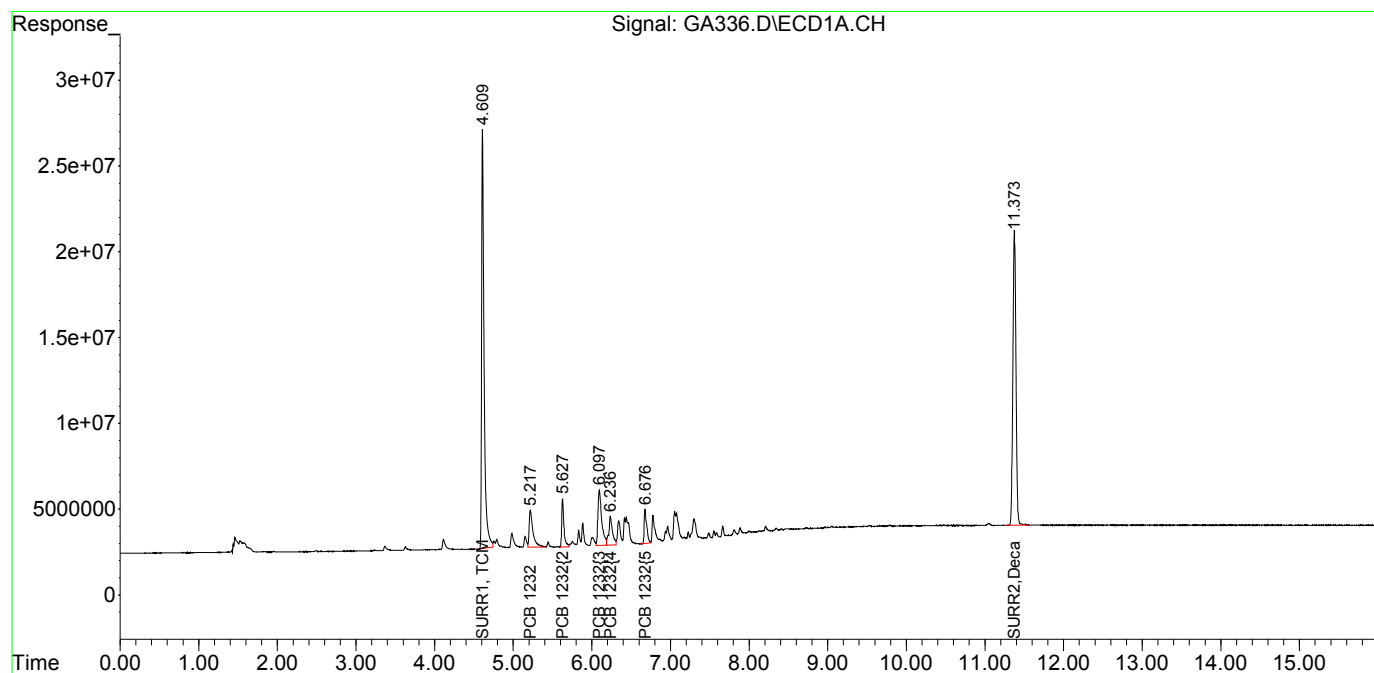
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	534.3E6	406.6E6	21.369	21.222
Spiked Amount	100.000	Range	30 - 150	Recovery =	21.37%#	21.22%#
2) S SURR2, Dec...	11.373	12.684	467.4E6	374.2E6	22.507	22.308
Spiked Amount	100.000	Range	30 - 150	Recovery =	22.51%#	22.31%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.217	5.426	72660558	13514960	153.029	133.865
14) L3c PCB 1232{2}	5.628	5.500	56158794	47563950	146.131	132.536
15) L3c PCB 1232{3}	6.096	5.952	109.2E6	47449414	142.196	135.008
16) L3c PCB 1232{4}	6.236	7.245	53890995	25467296	167.095	144.267
17) L3c PCB 1232{5}	6.676	7.315	43426167	30779512	151.670	141.579
Sum PCB 1232			335.3E6	164.8E6	760.122	687.254
Average PCB 1232					152.024	137.451
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA336.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:09 pm  
Operator : M.Pedro  
Sample : ar1232 1  
Misc : initial cal  
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:23:50 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:23:31 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA337.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 12:29 pm  
 Operator : M.Pedro  
 Sample : ar1232 ml  
 Misc : initial cal  
 ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:25:22 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:24:28 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

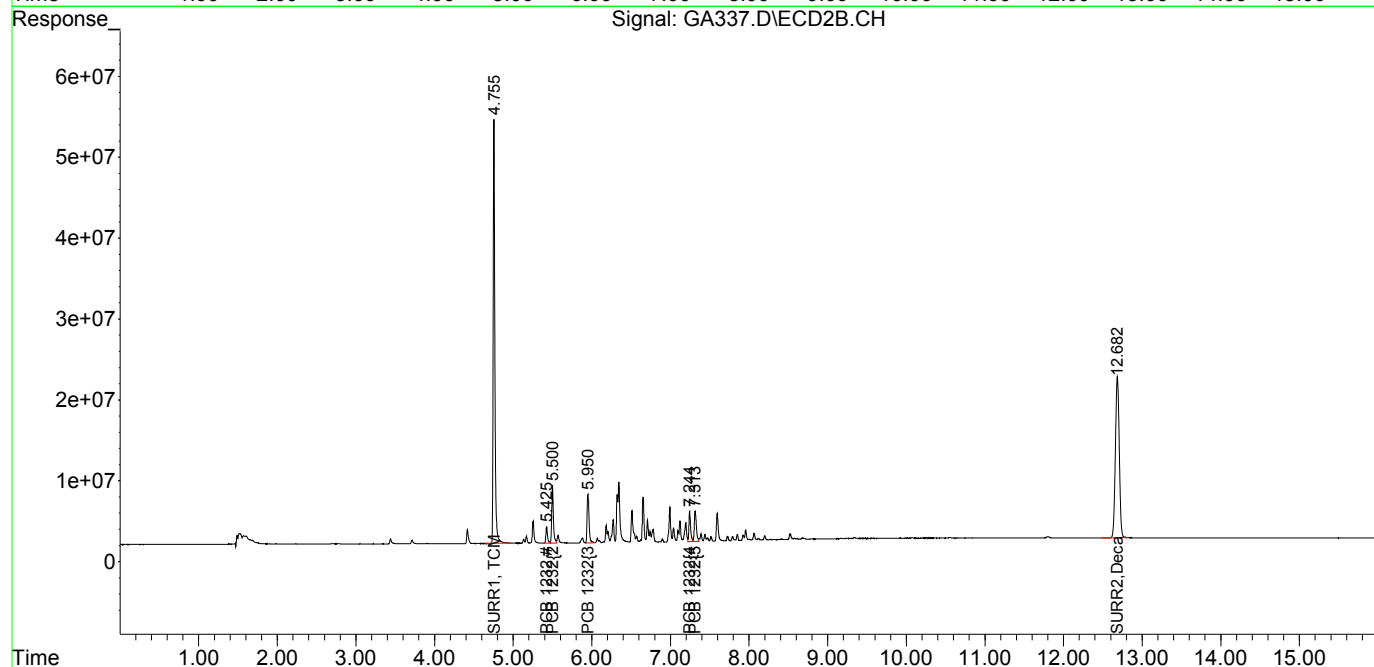
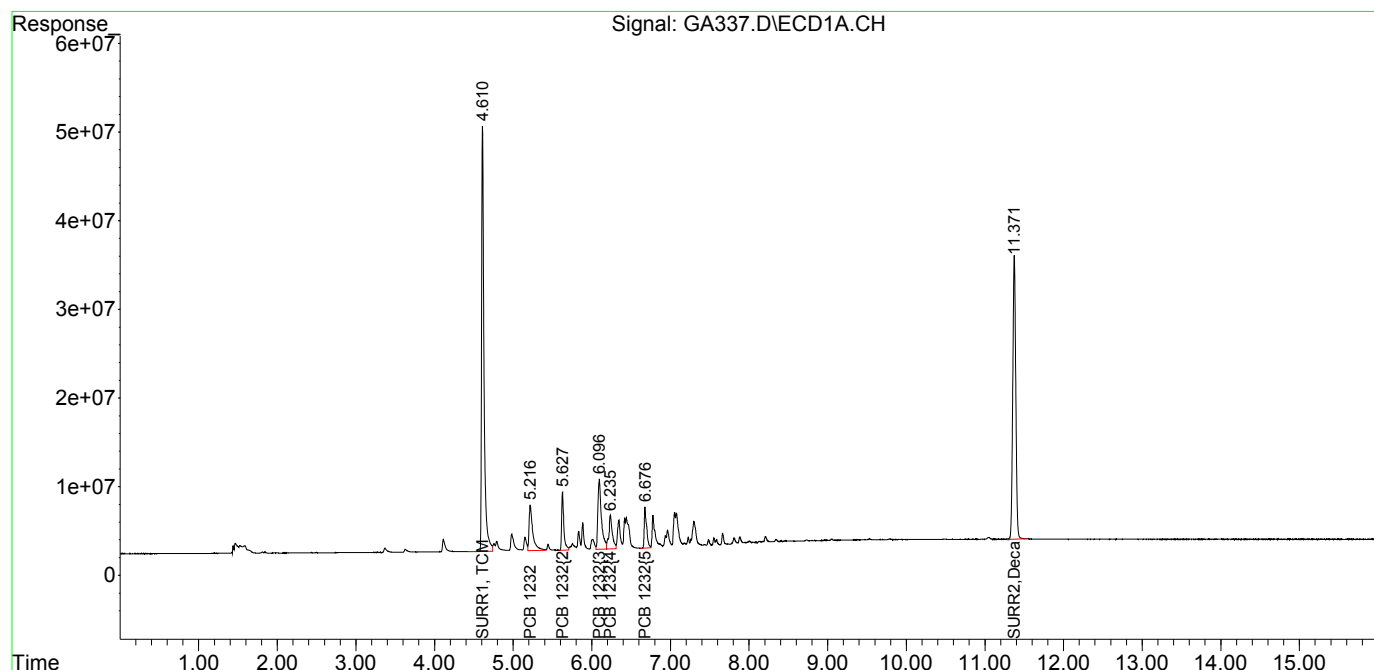
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	1018.7E6	769.0E6	40.449	39.896
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.45%	39.90%
2) S SURR2, Dec...	11.371	12.682	851.3E6	680.1E6	40.387	39.974
Spiked Amount	100.000	Range	30 - 150	Recovery =	40.39%	39.97%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.217	5.425	169.2E6	30260531	305.911	273.967
14) L3c PCB 1232{2}	5.628	5.500	125.0E6	104.0E6	284.188	267.532
15) L3c PCB 1232{3}	6.096	5.951	246.5E6	104.3E6	282.703	270.971
16) L3c PCB 1232{4}	6.236	7.245	117.6E6	56560047	299.852	281.897
17) L3c PCB 1232{5}	6.676	7.314	98261858	69056957	292.880	281.425
Sum PCB 1232			756.6E6	364.2E6	1465.534	1375.791
Average PCB 1232					293.107	275.158
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA337.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:29 pm  
Operator : M.Pedro  
Sample : ar1232 ml  
Misc : initial cal  
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:25:22 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:24:28 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA338.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 12:49 pm  
 Operator : M.Pedro  
 Sample : ar1232 m  
 Misc : initial cal  
 ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:26:10 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:25:59 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	1573.8E6	1193.4E6	61.851	61.361
Spiked Amount	100.000	Range	30 - 150	Recovery =	61.85%	61.36%
2) S SURR2, Dec...	11.373	12.685	1268.1E6	1015.1E6	59.165	58.720
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.16%	58.72%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.215	5.426	348.1E6	61724874	629.302	558.833
14) L3c PCB 1232{2}	5.627	5.500	260.4E6	213.2E6	591.707	548.226
15) L3c PCB 1232{3}	6.094	5.952	519.7E6	213.2E6	596.064	553.954
16) L3c PCB 1232{4}	6.236	7.245	241.6E6	115.0E6	615.923	573.114
17) L3c PCB 1232{5}	6.676	7.314	205.4E6	141.7E6	612.273	577.308
Sum PCB 1232			1575.1E6	744.8E6	3045.269	2811.436
Average PCB 1232					609.054	562.287
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

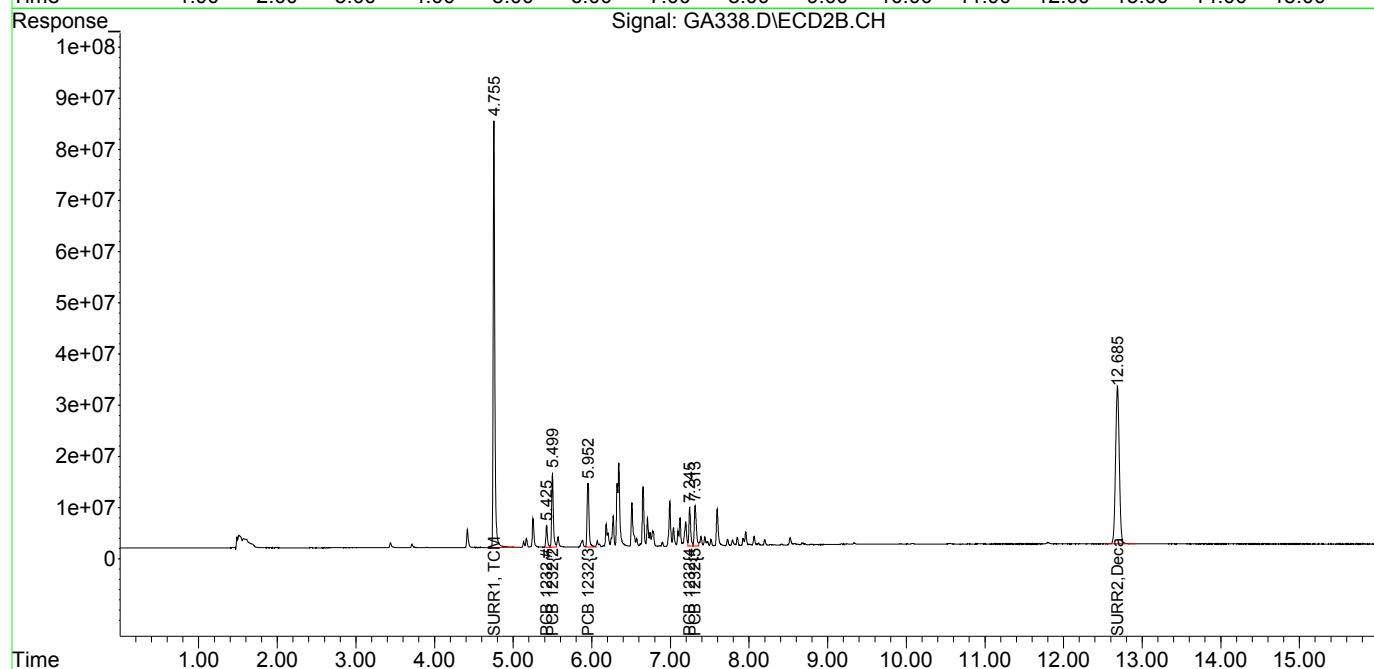
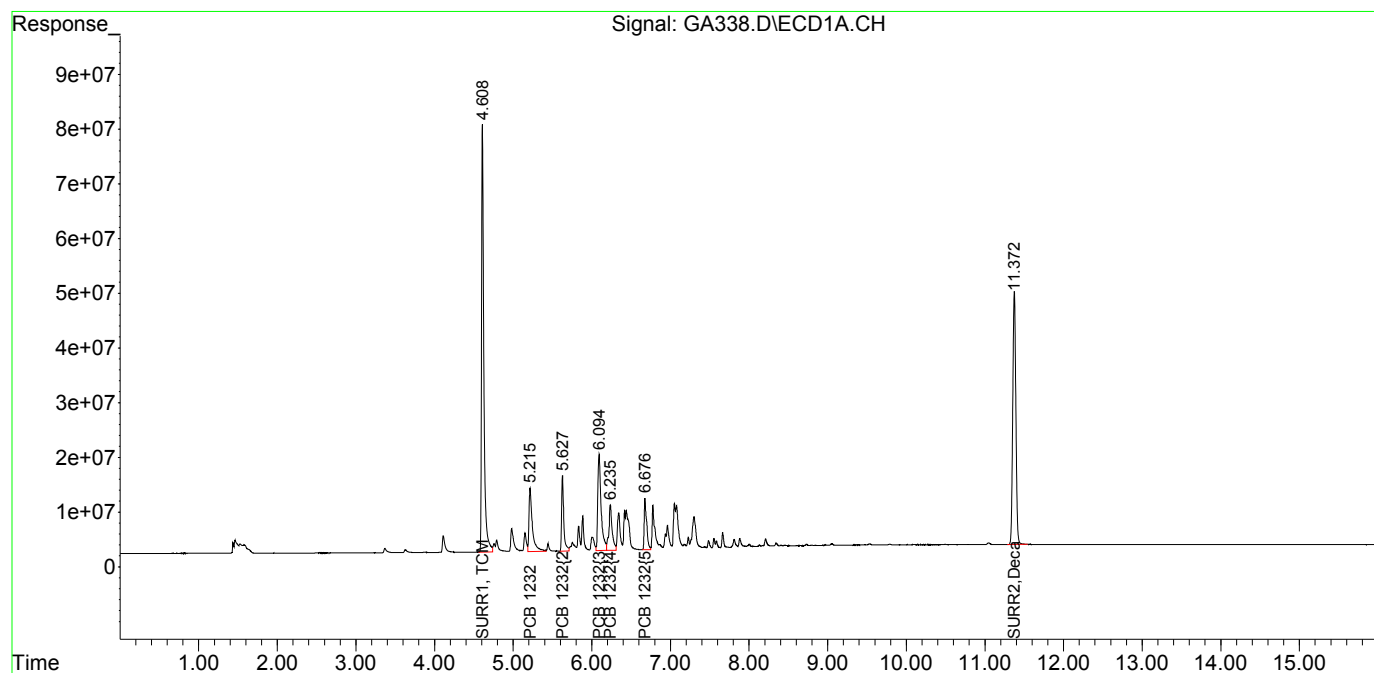
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA338.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 12:49 pm  
Operator : M.Pedro  
Sample : ar1232 m  
Misc : initial cal  
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:26:10 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:25:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA339.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 1:08 pm  
 Operator : M.Pedro  
 Sample : ar1232 mh  
 Misc : initial cal  
 ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:26:51 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:26:43 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

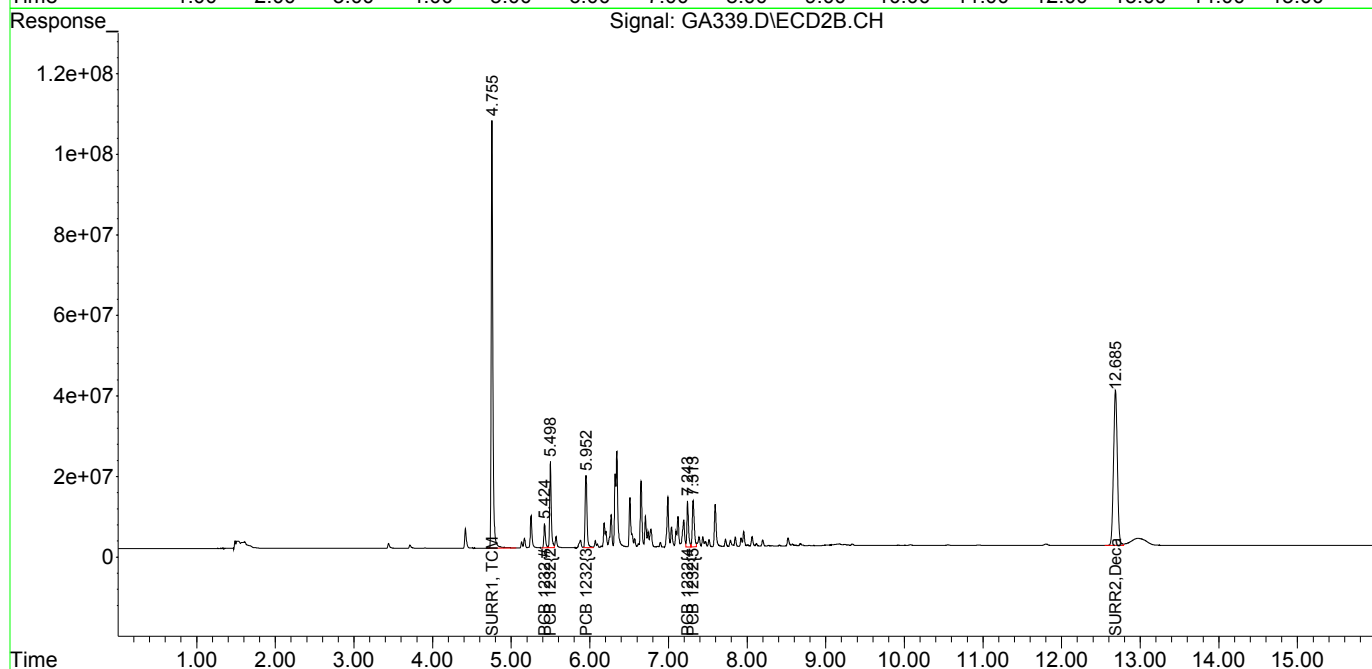
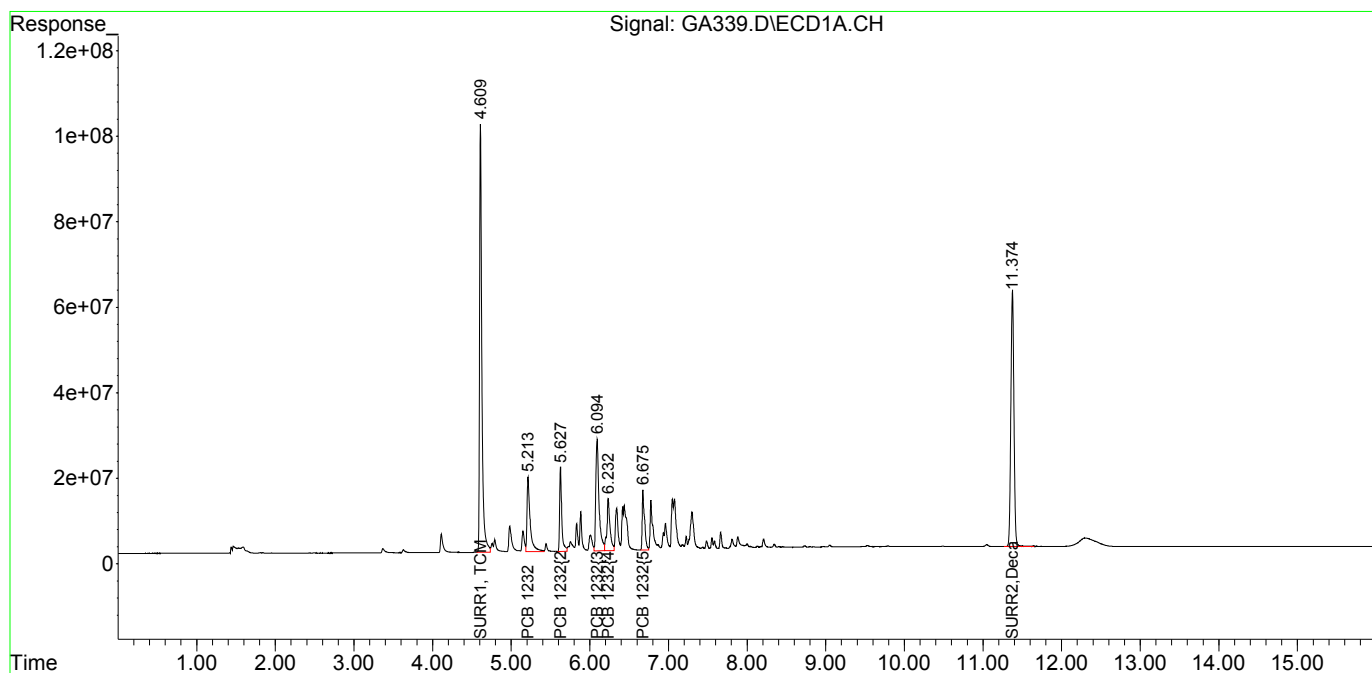
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	2004.5E6	1520.7E6	78.054	77.542
Spiked Amount	100.000	Range	30 - 150	Recovery	= 78.05%	77.54%
2) S SURR2, Dec...	11.374	12.684	1629.2E6	1302.9E6	75.414	74.762
Spiked Amount	100.000	Range	30 - 150	Recovery	= 75.41%	74.76%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.214	5.425	485.2E6	85729651	765.061	717.998
14) L3c PCB 1232{2}	5.627	5.499	366.7E6	296.9E6	748.384	711.813
15) L3c PCB 1232{3}	6.094	5.952	739.8E6	299.0E6	761.123	719.564
16) L3c PCB 1232{4}	6.233	7.244	338.1E6	161.8E6	752.049	732.379
17) L3c PCB 1232{5}	6.675	7.313	290.2E6	200.5E6	762.993	741.300
Sum PCB 1232			2220.0E6	1043.8E6	3789.611	3623.055
Average PCB 1232					757.922	724.611
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA339.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:08 pm  
Operator : M.Pedro  
Sample : ar1232 mh  
Misc : initial cal  
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:26:51 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:26:43 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA340.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 1:28 pm  
 Operator : M.Pedro  
 Sample : ar1232 h  
 Misc : initial cal  
 ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:27:38 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:27:30 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

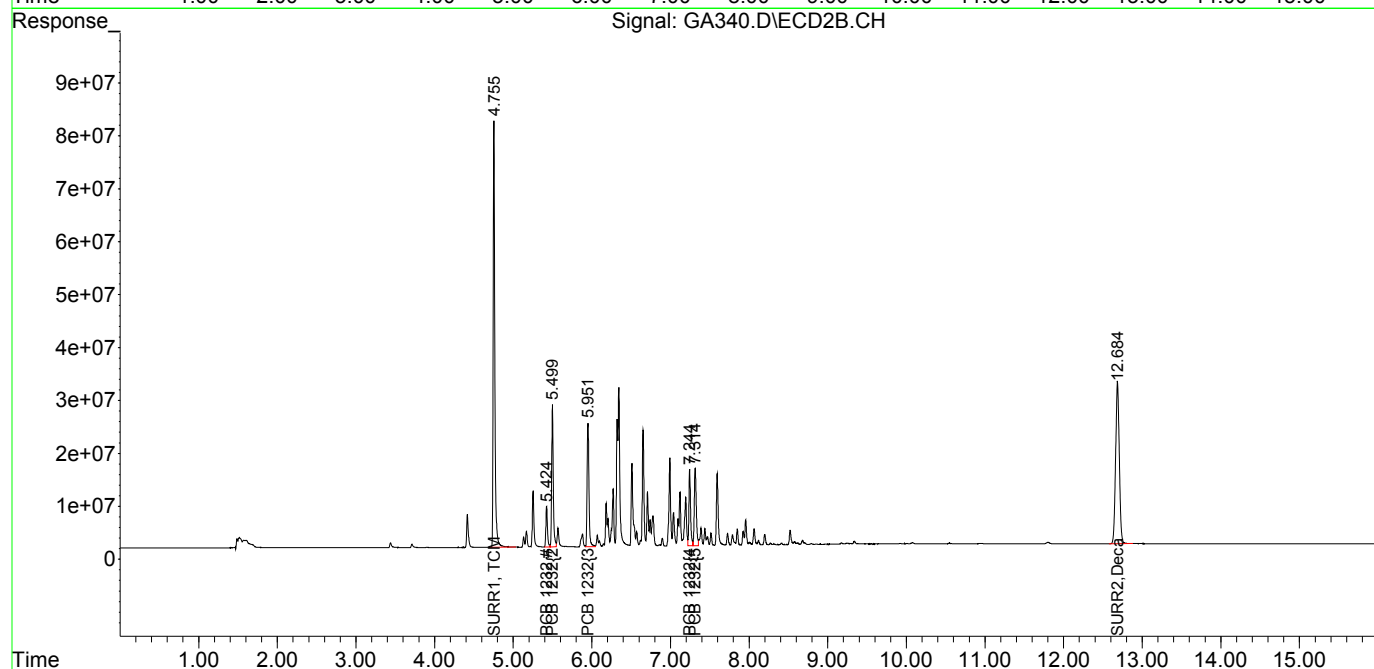
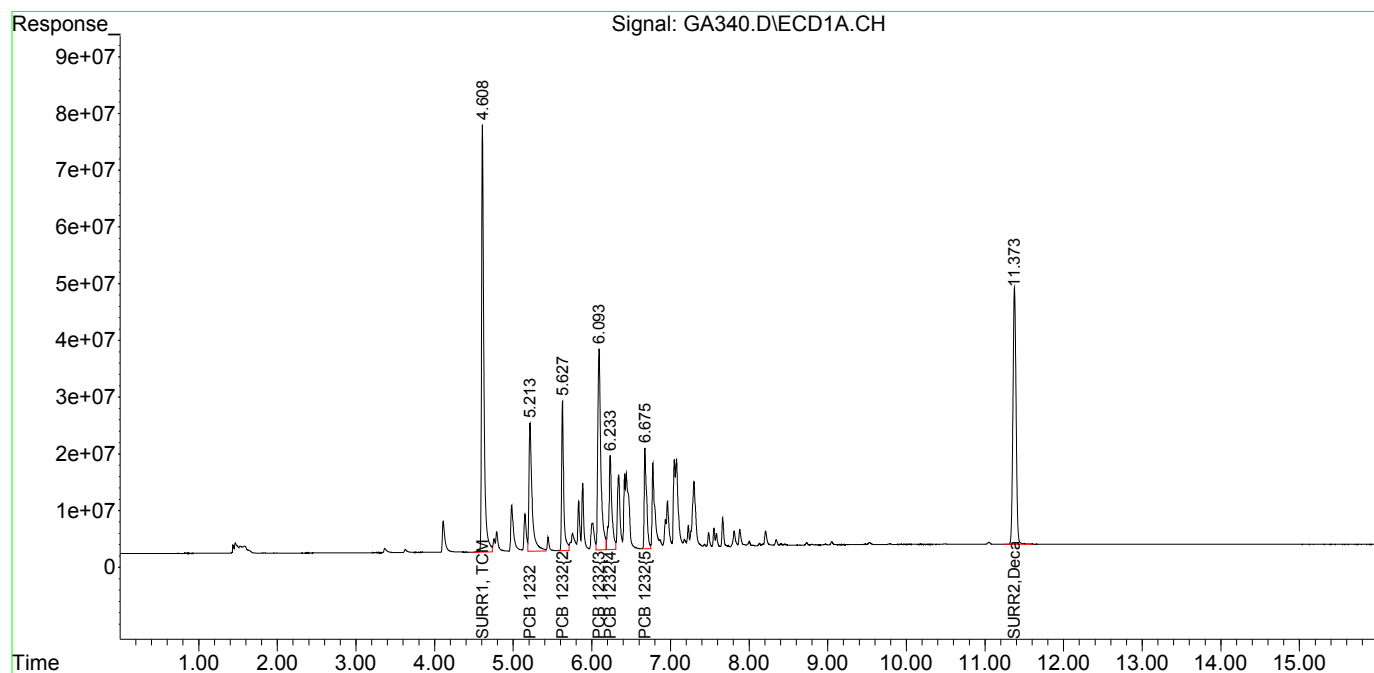
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	1527.6E6	1168.2E6	59.435	59.604
Spiked Amount	100.000	Range	30 - 150	Recovery =	59.44%	59.60%
2) S SURR2, Dec...	11.374	12.684	1249.0E6	993.8E6	57.692	56.952
Spiked Amount	100.000	Range	30 - 150	Recovery =	57.69%	56.95%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
13) L3c PCB 1232	5.214	5.425	623.9E6	108.6E6	983.736	909.269
14) L3c PCB 1232{2}	5.628	5.499	473.0E6	381.6E6	965.333	915.080
15) L3c PCB 1232{3}	6.093	5.951	961.5E6	383.4E6	989.242	922.879
16) L3c PCB 1232{4}	6.233	7.244	433.9E6	209.0E6	965.089	945.945
17) L3c PCB 1232{5}	6.676	7.314	375.7E6	259.4E6	987.680	959.062
Sum PCB 1232			2868.0E6	1342.0E6	4891.079	4652.235
Average PCB 1232					978.216	930.447
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA340.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:28 pm  
Operator : M.Pedro  
Sample : ar1232 h  
Misc : initial cal  
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:27:38 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:27:30 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

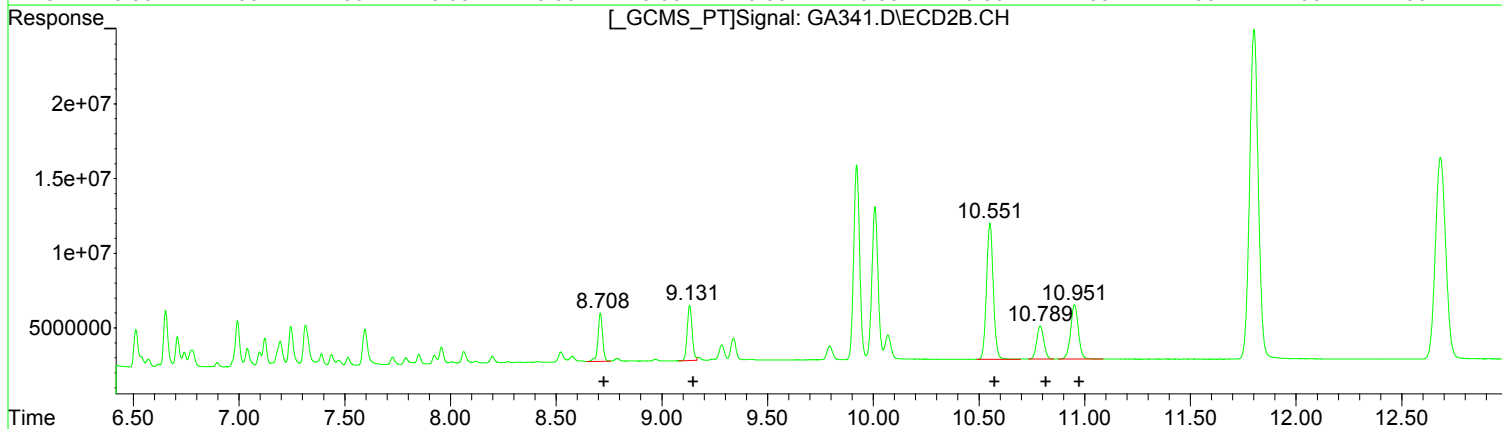
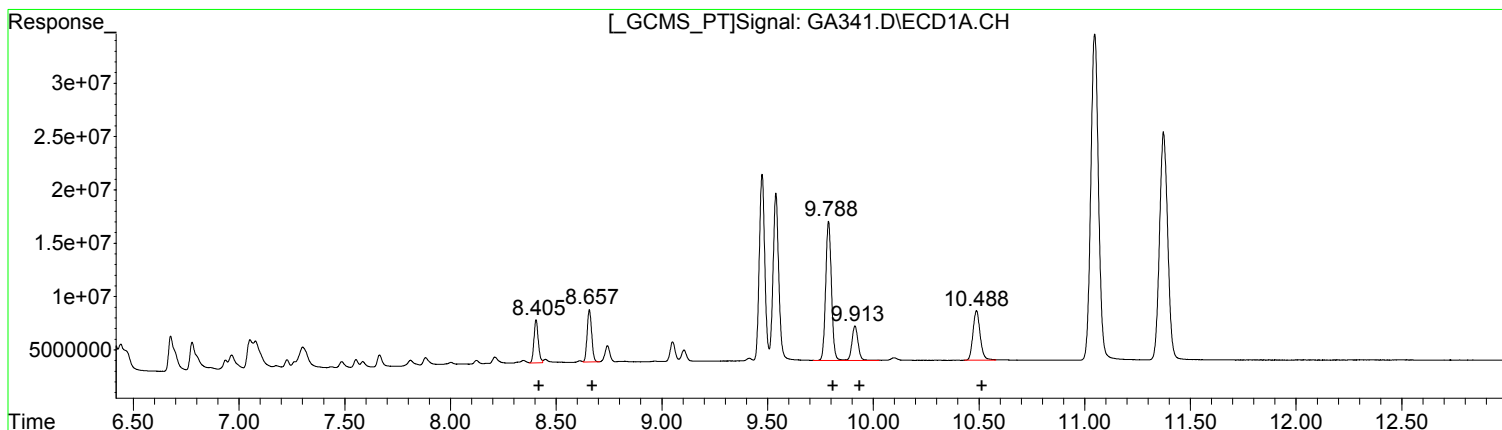
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA341.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:47 pm  
Operator : M.Pedro  
Sample : ar1242/68 l  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:28:42 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:28:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



QEdit

(38) PCB 1268 (L8C)		
R.T.	Response	Conc
8.40	57864319	135.63
8.66	73177565	139.59
9.79	246261131	137.19
9.91	63868854	138.41
10.49	110924779	137.00

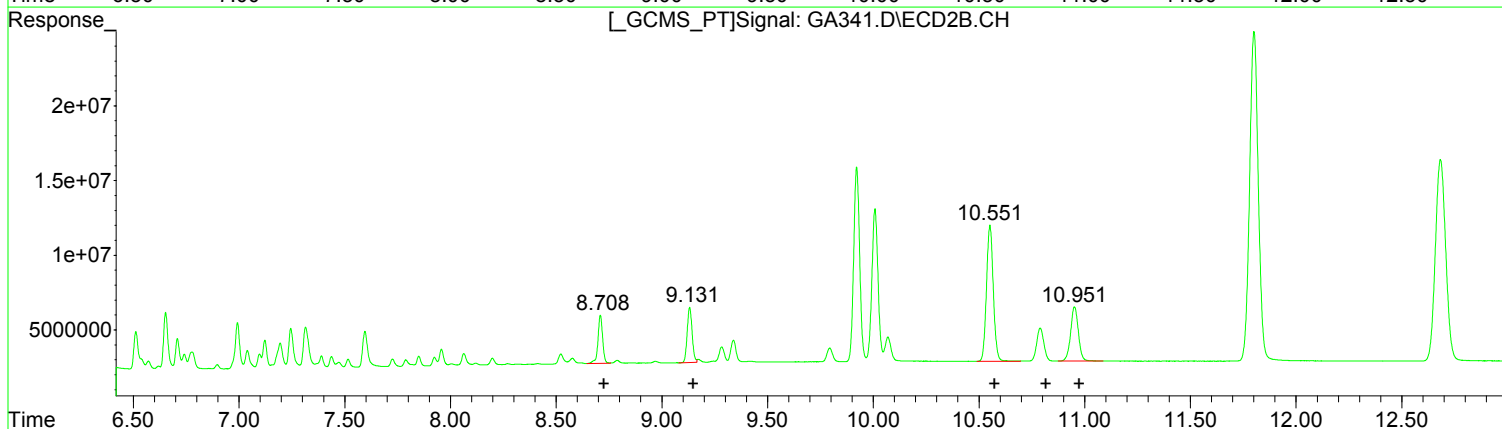
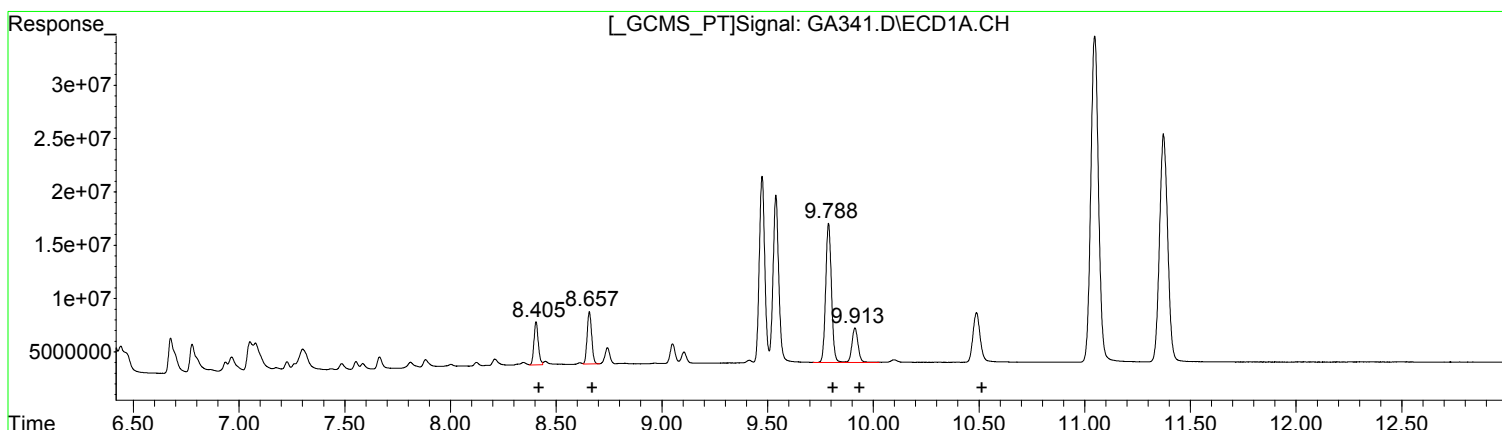
(38) PCB 1268 #2 (L8C)		
R.T.	Response	Conc
8.71	49861893	138.21
9.13	60093917	133.75
10.55	202814063	126.06
10.79	51448587	124.00
10.95	93076576	126.14

Manual Integration:  
After  
Peak not found.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA341.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:47 pm  
Operator : M.Pedro  
Sample : ar1242/68 l  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:28:42 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:28:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(38) PCB 1268 (L8C)

R.T.	Response	Conc
8.40	57864319	135.63
8.66	73177565	139.59
9.79	246261131	137.19
9.91	63868854	138.41
0.00	0	0.00

Manual Integration:  
Before  
01/11/18

(38) PCB 1268 #2 (L8C)

R.T.	Response	Conc
8.71	49861893	138.21
9.13	60093917	133.75
10.55	202814063	126.06
0.00	0	0.00
10.95	93076576	126.14

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA341.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 1:47 pm  
 Operator : M.Pedro  
 Sample : ar1242/68 1  
 Misc : initial cal  
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:28:42 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:28:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.611	4.756	495.4E6	374.2E6	20.511	20.332
Spiked Amount	100.000	Range	30 - 150	Recovery	=	20.51%# 20.33%#
2) S SURR2, Dec...	11.373	12.683	575.3E6	461.4E6	28.196	28.059
Spiked Amount	100.000	Range	30 - 150	Recovery	=	28.20%# 28.06%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.219	5.501	37996886	28518246	112.131	105.100
19) L4c PCB 1242{2}	5.884	5.952	33659431	63308306	123.098	106.652
20) L4c PCB 1242{3}	6.096	6.993	156.1E6	46426320	107.768	101.930
21) L4c PCB 1242{4}	6.676	7.315	71427825	50112638	116.309	112.045
22) L4c PCB 1242{5}	6.778	7.596	65004474	40950143	110.817	111.731
Sum PCB 1242			364.2E6	229.3E6	570.124	537.458
Average PCB 1242					114.025	107.492
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.405	8.709	57864319	49861893	135.631	138.207
39) L8C PCB 1268{2}	8.657	9.131	73177565	60093917	139.594	133.754
40) L8C PCB 1268{3}	9.788	10.552	246.3E6	202.8E6	137.188	126.062
41) L8C PCB 1268{4}	9.914	10.789	63868854	51448587	138.405	124.002m
42) L8C PCB 1268{5}	10.488	10.952	110.9E6	93076576	137.005m	126.140
Sum PCB 1268			552.1E6	457.3E6	687.823	648.165
Average PCB 1268					137.565	129.633
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

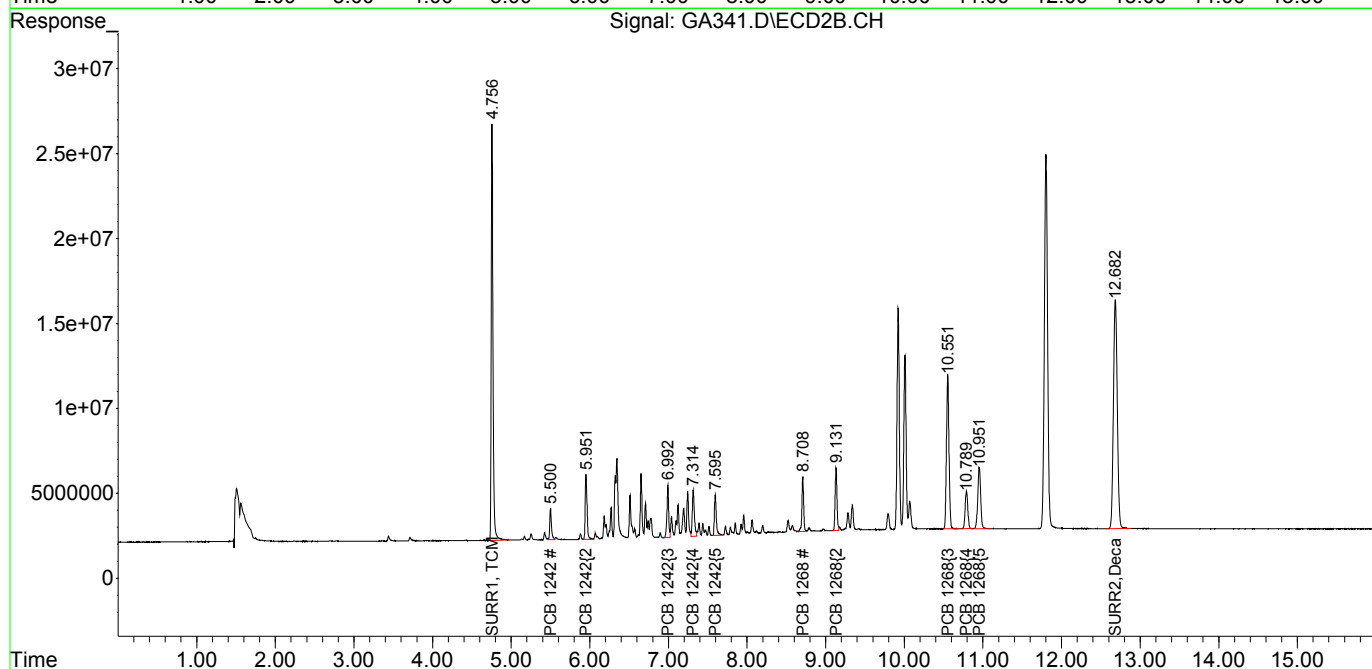
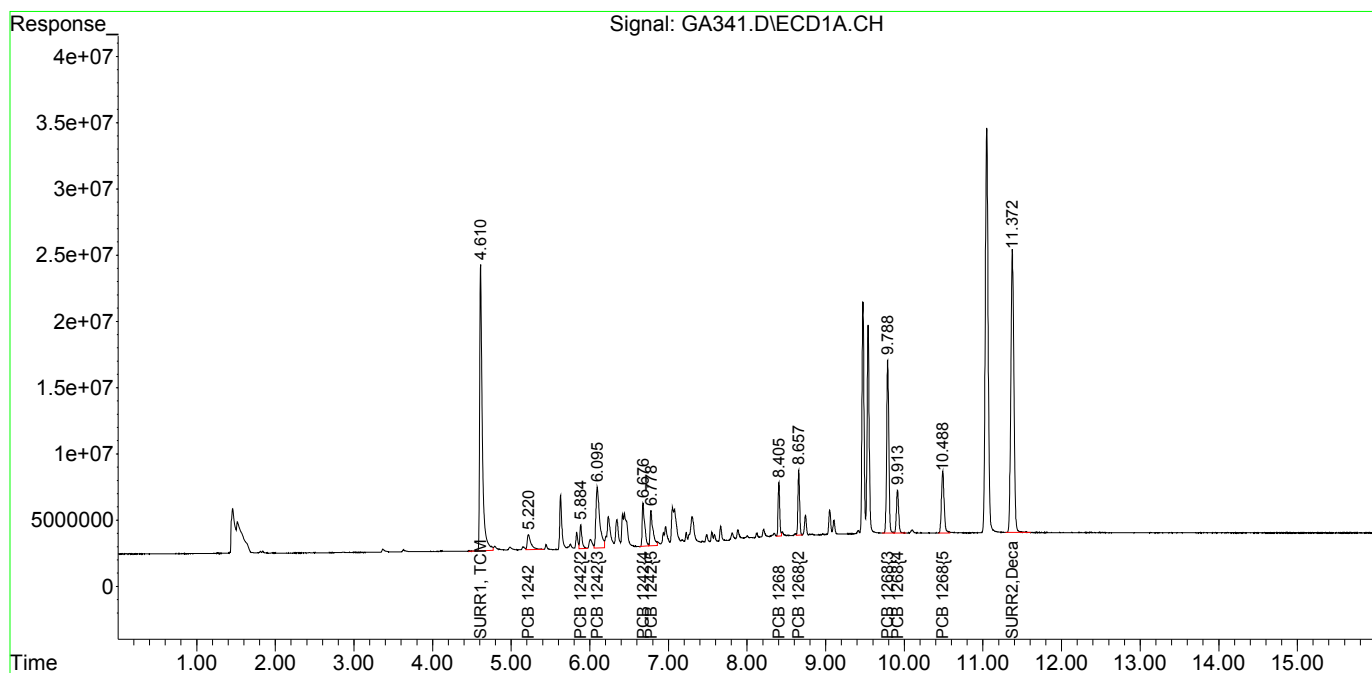




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA341.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 1:47 pm  
Operator : M.Pedro  
Sample : ar1242/68 1  
Misc : initial cal  
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:28:42 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:28:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA342.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 2:07 pm  
 Operator : M.Pedro  
 Sample : ar1242/68 ml  
 Misc : initial cal  
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:30:22 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:30:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	1033.9E6	777.1E6	43.389	42.855
Spiked Amount	100.000	Range	30 - 150	Recovery =	43.39%	42.85%
2) S SURR2, Dec...	11.376	12.684	1247.5E6	996.9E6	58.563	58.058
Spiked Amount	100.000	Range	30 - 150	Recovery =	58.56%	58.06%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.217	5.500	101.6E6	69462860	294.542	261.418
19) L4c PCB 1242{2}	5.885	5.952	86300656	157.0E6	300.042	267.881
20) L4c PCB 1242{3}	6.095	6.992	404.4E6	117.4E6	278.340	267.859
21) L4c PCB 1242{4}	6.677	7.314	181.7E6	126.5E6	287.620	278.284
22) L4c PCB 1242{5}	6.777	7.595	167.7E6	104.9E6	277.519	281.878
Sum PCB 1242			941.6E6	575.4E6	1438.062	1357.321
Average PCB 1242					287.612	271.464
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.406	8.709	153.2E6	130.4E6	304.746	303.431
39) L8C PCB 1268{2}	8.658	9.131	192.3E6	153.5E6	306.285	292.238
40) L8C PCB 1268{3}	9.788	10.553	655.2E6	536.3E6	307.795	294.901
41) L8C PCB 1268{4}	9.914	10.790	169.9E6	137.5E6	308.828	295.874
42) L8C PCB 1268{5}	10.490	10.952	296.2E6	247.7E6	308.682	296.831
Sum PCB 1268			1466.8E6	1205.3E6	1536.337	1483.275
Average PCB 1268					307.267	296.655
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

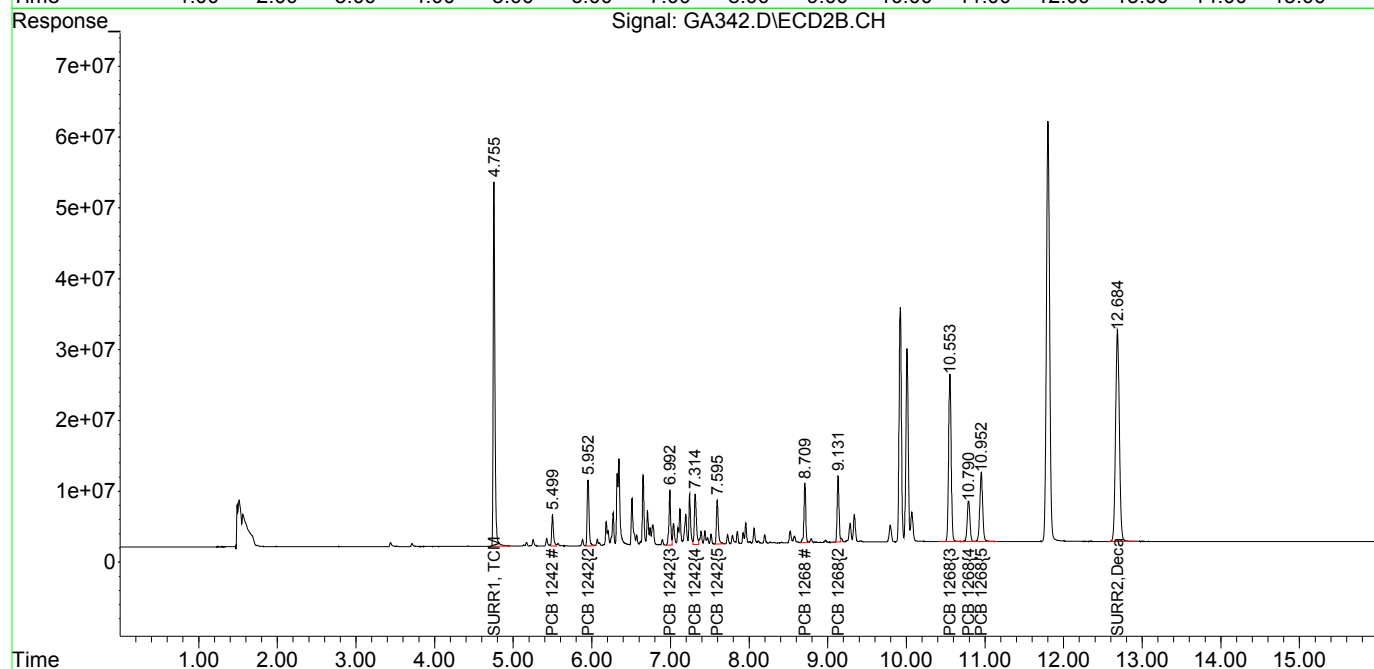
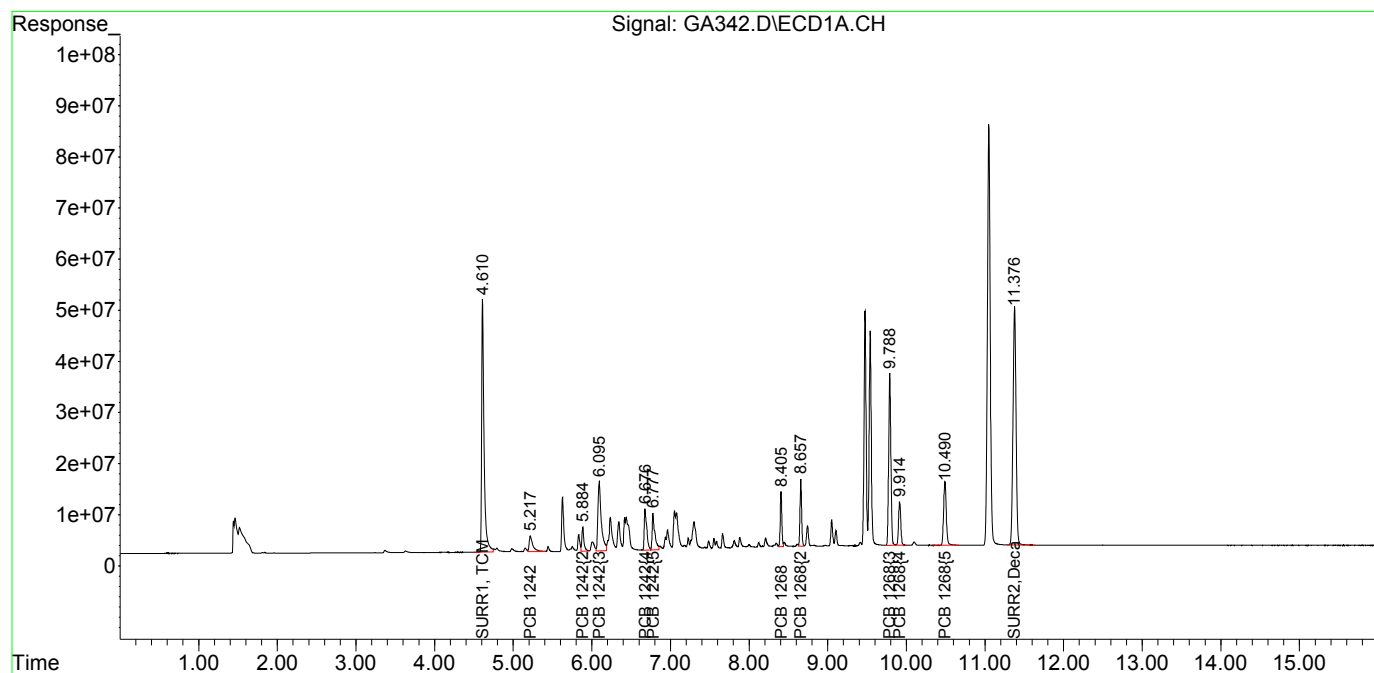
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA342.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:07 pm  
Operator : M.Pedro  
Sample : ar1242/68 ml  
Misc : initial cal  
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:30:22 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:30:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA343.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:27 pm  
Operator : M.Pedro  
Sample : ar1242/68 m  
Misc : initial cal  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	1560.0E6	1167.0E6	65.297	64.235
Spiked Amount	100.000	Range	30 - 150	Recovery =	65.30%	64.23%
2) S SURR2, Dec...	11.371	12.682	2053.6E6	1634.3E6	89.472	88.377
Spiked Amount	100.000	Range	30 - 150	Recovery =	89.47%	88.38%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.216	5.499	206.2E6	137.0E6	597.958	515.571
19) L4c PCB 1242{2}	5.884	5.950	170.1E6	303.6E6	591.256	517.828
20) L4c PCB 1242{3}	6.094	6.991	810.2E6	231.2E6	557.612	527.421
21) L4c PCB 1242{4}	6.676	7.313	359.7E6	248.3E6	569.524	546.038
22) L4c PCB 1242{5}	6.777	7.594	337.9E6	210.2E6	559.245	564.620
Sum PCB 1242			1884.0E6	1130.2E6	2875.594	2671.478
Average PCB 1242					575.119	534.296
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.404	8.708	294.1E6	249.7E6	545.277	542.441
39) L8C PCB 1268{2}	8.656	9.130	367.2E6	294.1E6	543.927	530.293
40) L8C PCB 1268{3}	9.787	10.552	1286.8E6	1053.2E6	561.198	546.470
41) L8C PCB 1268{4}	9.912	10.788	337.1E6	267.6E6	568.249	542.629
42) L8C PCB 1268{5}	10.487	10.950	582.4E6	484.0E6	562.986	546.066
Sum PCB 1268			2867.6E6	2348.7E6	2781.636	2707.899
Average PCB 1268					556.327	541.580
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

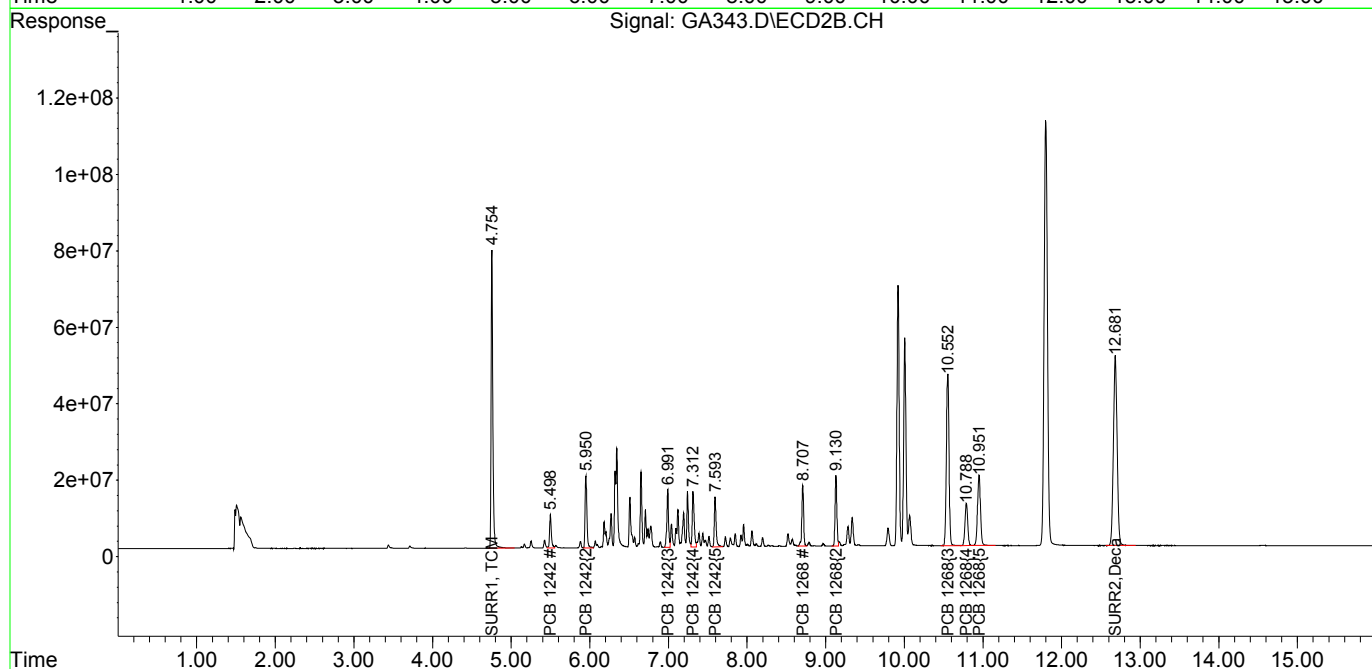
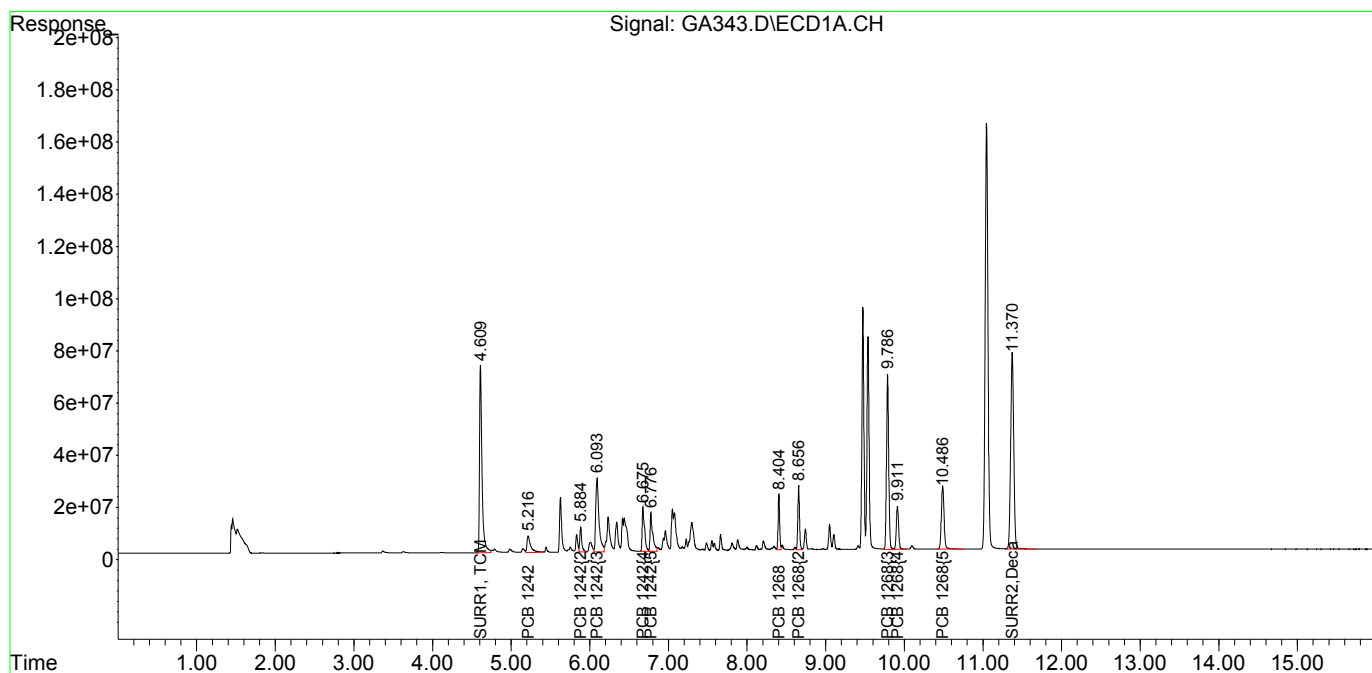
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA343.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:27 pm  
Operator : M.Pedro  
Sample : ar1242/68 m  
Misc : initial cal  
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:12 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:03 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA344.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 2:46 pm  
 Operator : M.Pedro  
 Sample : ar1242/68 mh  
 Misc : initial cal  
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:31:57 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:31:48 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2064.5E6	1540.0E6	86.554	85.108
Spiked Amount	100.000	Range	30 - 150	Recovery	= 86.55%	85.11%
2) S SURR2, Dec...	11.375	12.684	2736.4E6	2184.0E6	108.870	108.056
Spiked Amount	100.000	Range	30 - 150	Recovery	= 108.87%	108.06%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.214	5.498	301.4E6	197.0E6	815.164	735.836
19) L4c PCB 1242{2}	5.884	5.951	248.8E6	439.0E6	803.051	740.896
20) L4c PCB 1242{3}	6.093	6.992	1192.6E6	335.4E6	790.739	754.015
21) L4c PCB 1242{4}	6.675	7.313	533.3E6	359.1E6	799.537	763.617
22) L4c PCB 1242{5}	6.777	7.594	504.1E6	303.8E6	798.738	779.465
Sum PCB 1242			2780.3E6	1634.3E6	4007.228	3773.830
Average PCB 1242					801.446	754.766
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.405	8.709	434.9E6	366.7E6	733.259	724.002
39) L8C PCB 1268{2}	8.657	9.131	541.7E6	429.8E6	726.935	715.182
40) L8C PCB 1268{3}	9.788	10.553	1893.0E6	1549.8E6	741.662	740.404
41) L8C PCB 1268{4}	9.914	10.790	490.0E6	391.5E6	737.739	734.313
42) L8C PCB 1268{5}	10.488	10.952	841.7E6	702.8E6	730.029	729.724
Sum PCB 1268			4201.3E6	3440.8E6	3669.623	3643.626
Average PCB 1268					733.925	728.725
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

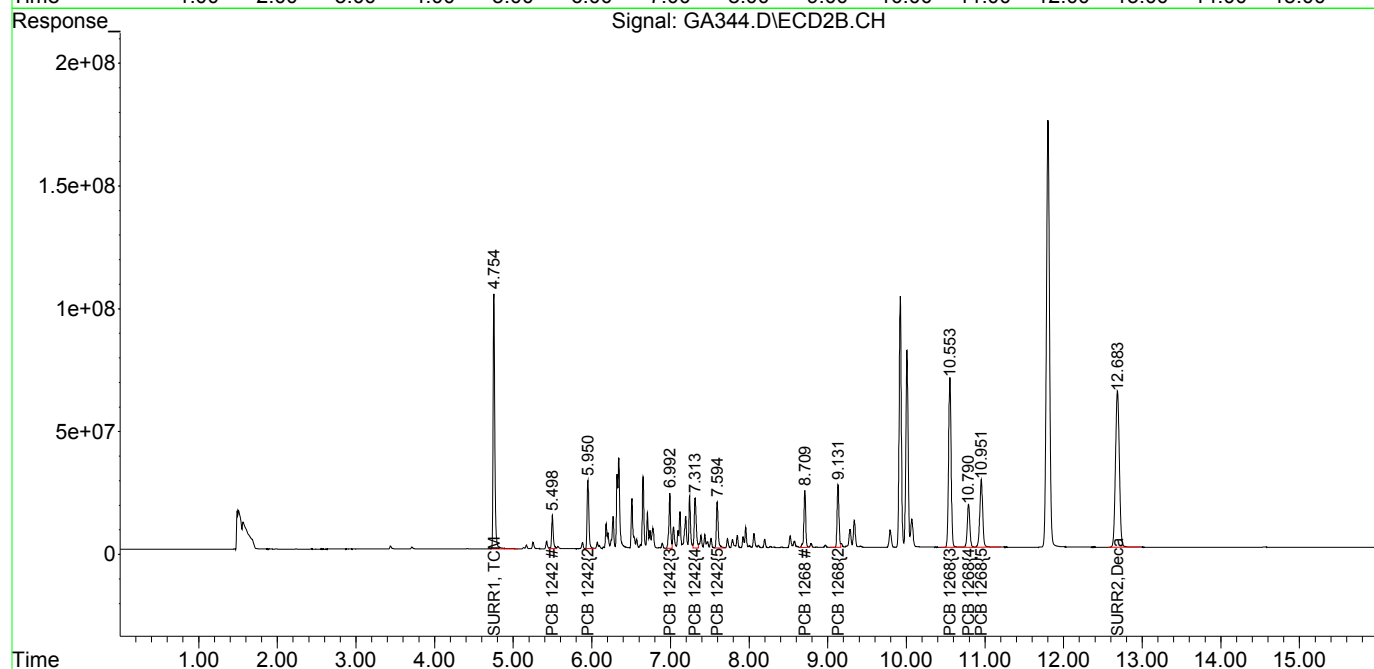
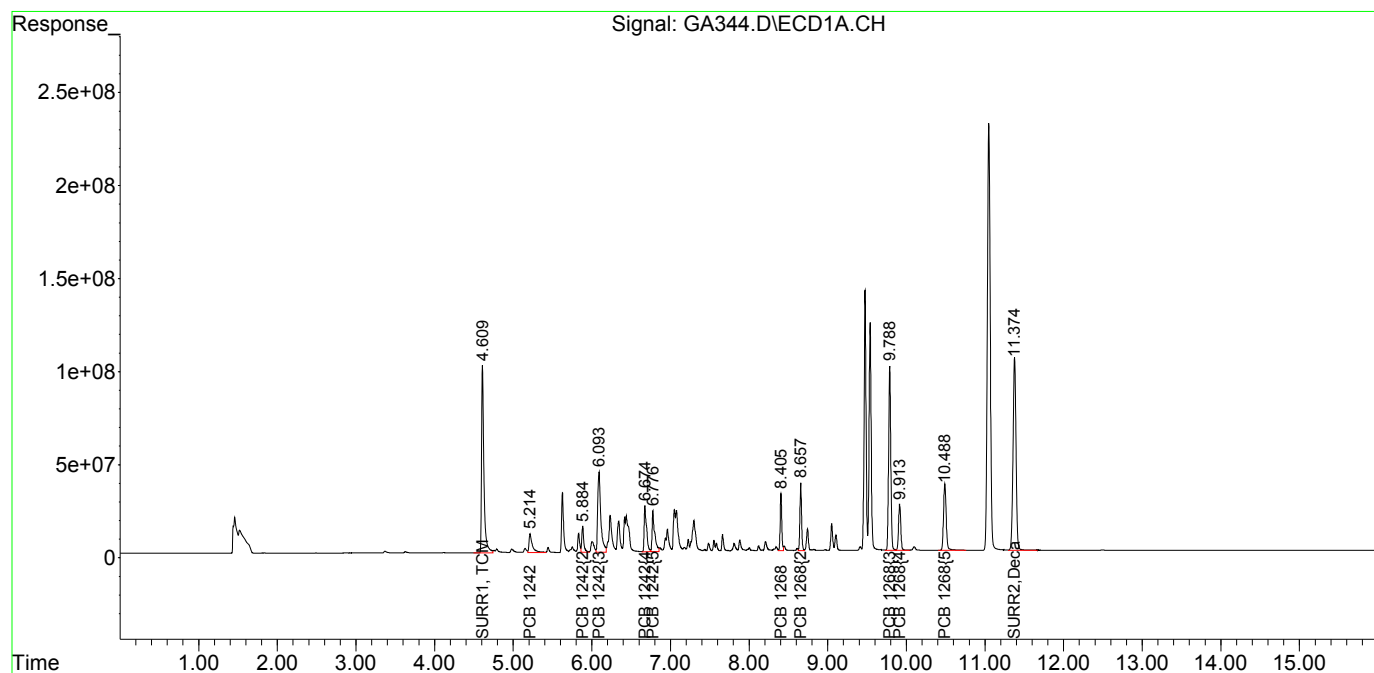
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA344.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 2:46 pm  
Operator : M.Pedro  
Sample : ar1242/68 mh  
Misc : initial cal  
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:31:57 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:31:48 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA345.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:06 pm  
Operator : M.Pedro  
Sample : ar1242/68 h  
Misc : initial cal  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:32:46 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:32:38 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.756	2634.2E6	1957.1E6	109.861	107.925
Spiked Amount	100.000	Range	30 - 150	Recovery	= 109.86%	107.93%
2) S SURR2, Dec...	11.373	12.684	3633.2E6	2887.3E6	132.400	130.961
Spiked Amount	100.000	Range	30 - 150	Recovery	= 132.40%	130.96%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
18) L4c PCB 1242	5.213	5.500	404.9E6	261.1E6	1094.984	975.345
19) L4c PCB 1242{2}	5.884	5.951	335.2E6	590.1E6	1081.743	996.050
20) L4c PCB 1242{3}	6.091	6.991	1636.4E6	459.5E6	1084.977	1033.050
21) L4c PCB 1242{4}	6.675	7.313	726.2E6	491.5E6	1088.690	1045.104
22) L4c PCB 1242{5}	6.776	7.594	693.6E6	421.5E6	1098.958	1081.333
Sum PCB 1242			3796.3E6	2223.7E6	5449.352	5130.882
Average PCB 1242					1089.870	1026.176
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
38) L8C PCB 1268	8.405	8.709	586.1E6	495.3E6	993.708	986.400
39) L8C PCB 1268{2}	8.656	9.131	724.5E6	577.8E6	979.719	972.648
40) L8C PCB 1268{3}	9.787	10.552	2577.1E6	2104.6E6	1012.486	1008.667
41) L8C PCB 1268{4}	9.912	10.788	663.1E6	529.6E6	1002.574	998.456
42) L8C PCB 1268{5}	10.487	10.952	1140.5E6	963.4E6	995.890	1007.088
Sum PCB 1268			5691.3E6	4670.7E6	4984.375	4973.260
Average PCB 1268					996.875	994.652
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000
-----						

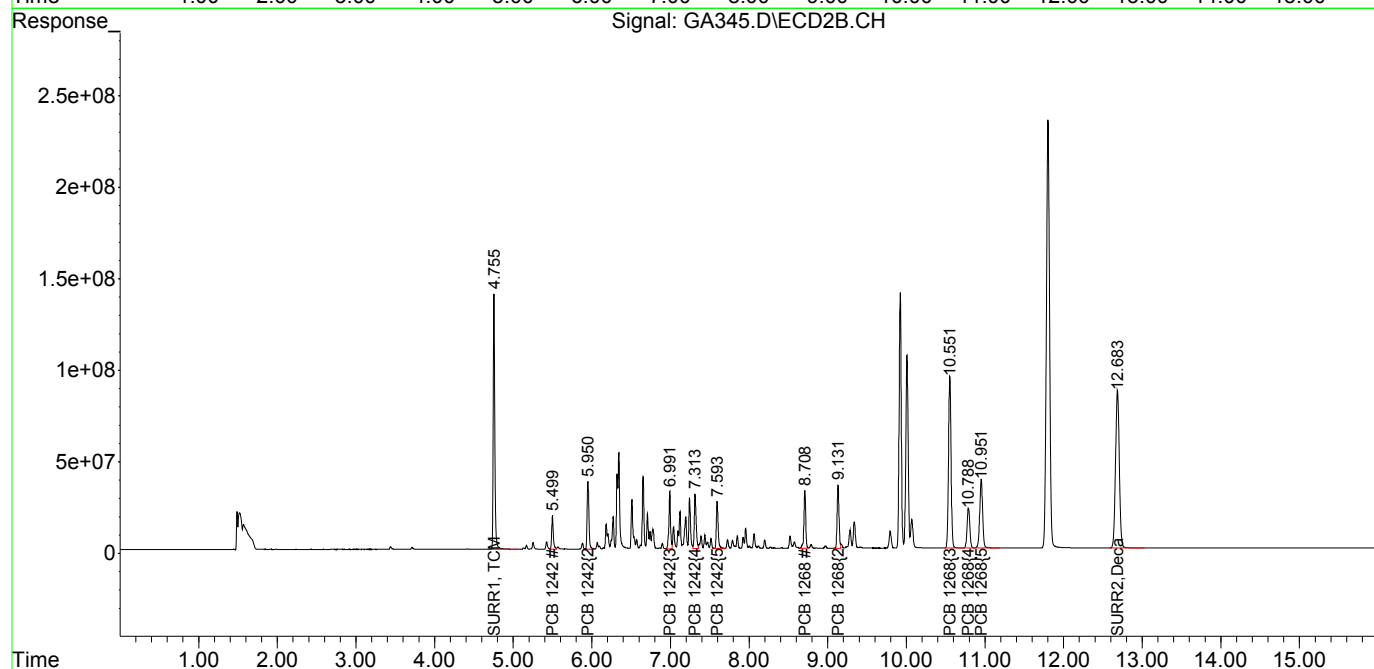
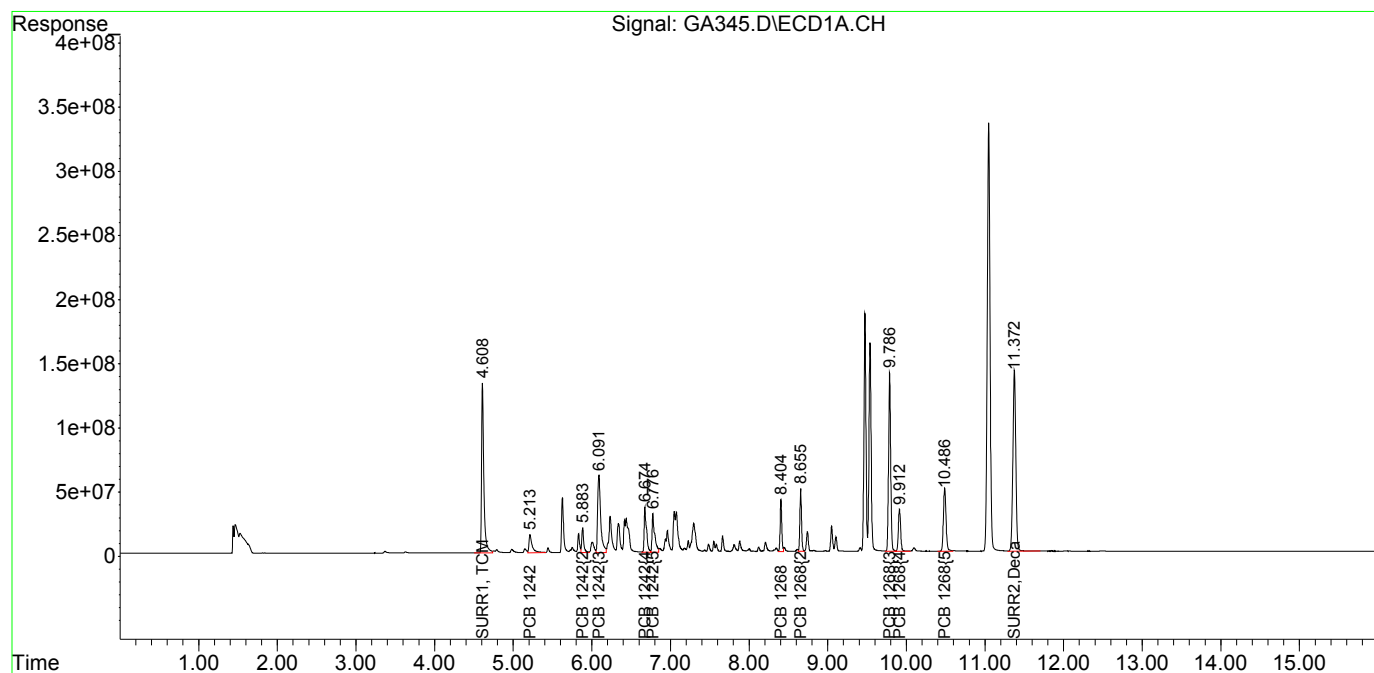
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA345.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:06 pm  
Operator : M.Pedro  
Sample : ar1242/68 h  
Misc : initial cal  
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:32:46 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:32:38 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA346.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:26 pm  
Operator : M.Pedro  
Sample : ar1248 1  
Misc : initial cal  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:33:31 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:33:23 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

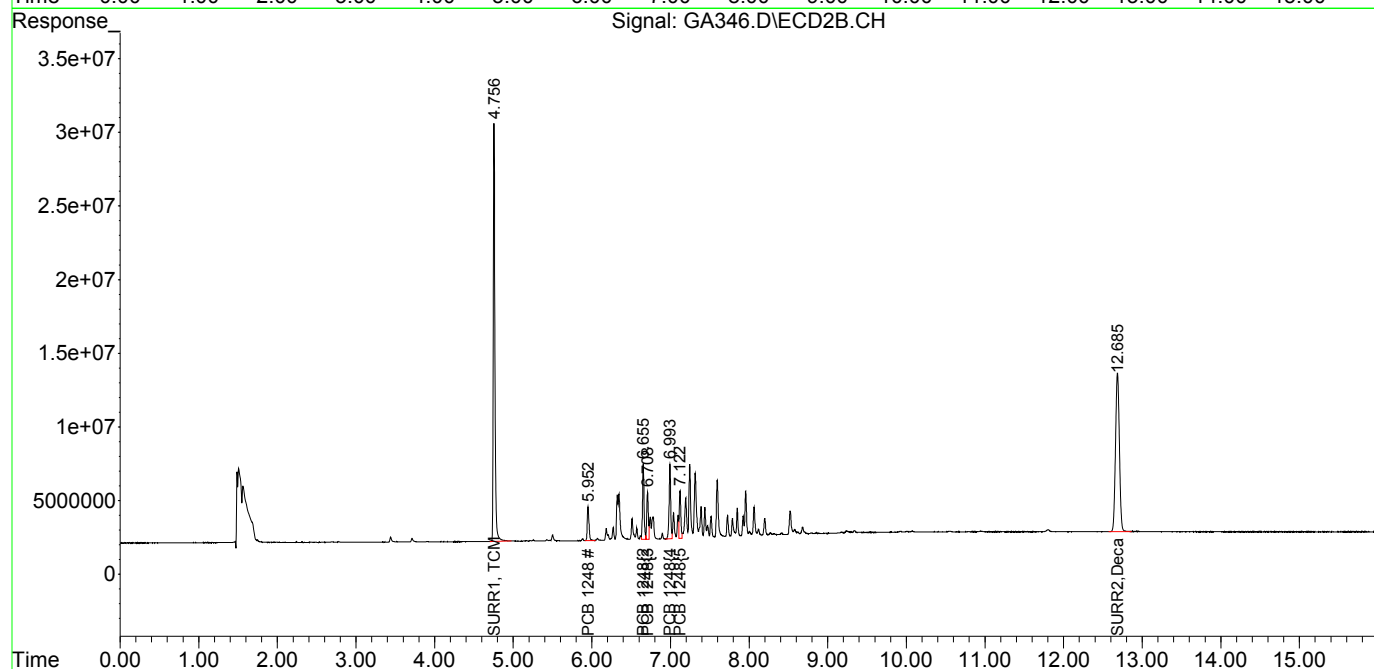
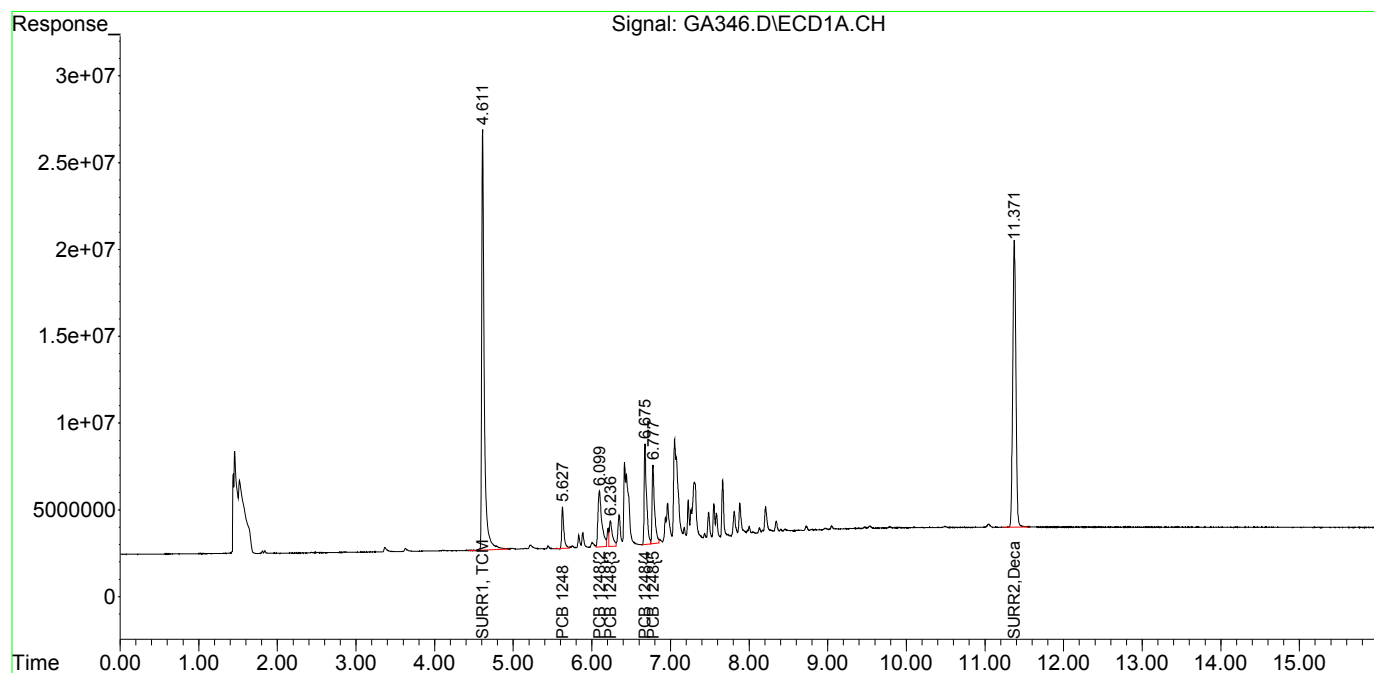
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.612	4.756	546.7E6	406.7E6	21.172	20.911
Spiked Amount	100.000	Range	30 - 150	Recovery =	21.17%#	20.91%#
2) S SURR2,Dec...	11.372	12.685	460.1E6	368.8E6	14.647	14.631
Spiked Amount	100.000	Range	30 - 150	Recovery =	14.65%#	14.63%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.628	5.952	45799452	35917447	126.004	116.211
24) L5c PCB 1248{2}	6.098	6.655	109.7E6	69869375	115.617	113.946
25) L5c PCB 1248{3}	6.236	6.709	39823197	42682381	120.792	118.062
26) L5c PCB 1248{4}	6.676	6.993	119.5E6	71255787	127.120	115.335
27) L5c PCB 1248{5}	6.778	7.122	98107071	43606584	124.366	118.569
Sum PCB 1248			412.9E6	263.3E6	613.900	582.122
Average PCB 1248					122.780	116.424
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA346.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:26 pm  
Operator : M.Pedro  
Sample : ar1248 1  
Misc : initial cal  
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:33:31 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:33:23 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m





Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA347.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:45 pm  
Operator : M.Pedro  
Sample : ar1248 ml  
Misc : initial cal  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:34:20 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:34:11 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.756	994.1E6	744.4E6	37.873	37.749
Spiked Amount	100.000	Range	30 - 150	Recovery	= 37.87%	37.75%
2) S SURR2,Dec...	11.374	12.683	812.4E6	653.5E6	26.675	26.750
Spiked Amount	100.000	Range	30 - 150	Recovery	= 26.67%#	26.75%#
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.628	5.952	105.5E6	81260291	270.637	255.598
24) L5c PCB 1248{2}	6.096	6.654	253.7E6	158.6E6	256.698	252.608
25) L5c PCB 1248{3}	6.235	6.709	90425684	96319674	252.906	256.673
26) L5c PCB 1248{4}	6.676	6.993	274.2E6	162.2E6	270.950	254.351
27) L5c PCB 1248{5}	6.778	7.122	228.4E6	100.7E6	269.251	261.028
Sum PCB 1248			952.2E6	599.1E6	1320.442	1280.259
Average PCB 1248					264.088	256.052
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

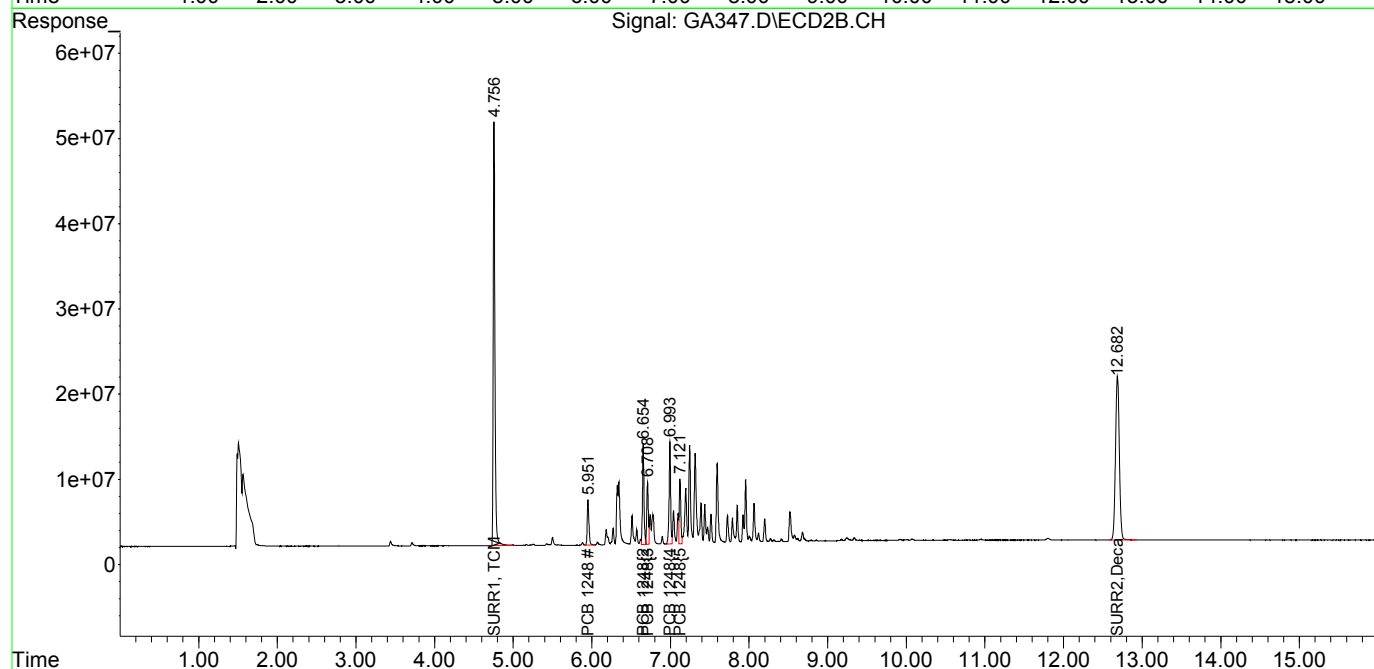
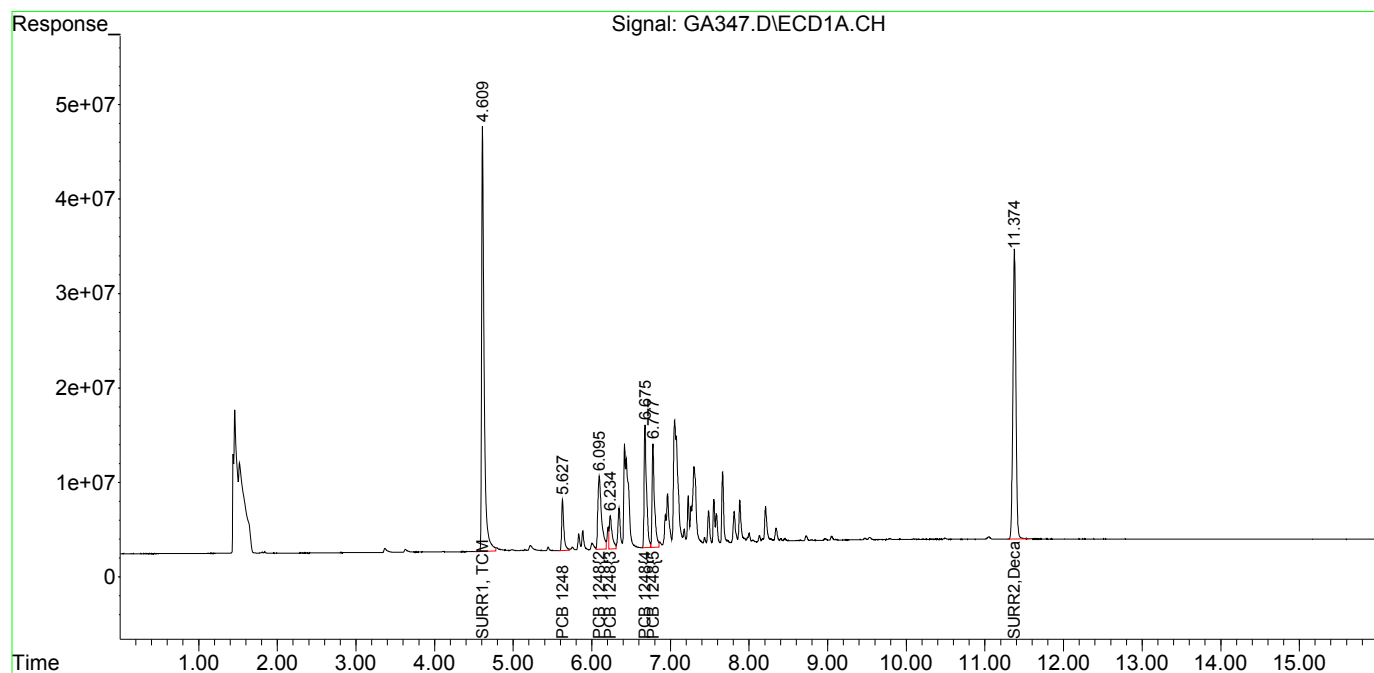
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA347.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 3:45 pm  
Operator : M.Pedro  
Sample : ar1248 ml  
Misc : initial cal  
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:34:20 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:34:11 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA348.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 4:05 pm  
 Operator : M.Pedro  
 Sample : ar1248 m  
 Misc : initial cal  
 ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:35:01 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:34:52 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
----------	------	------	--------	--------	------	------

System Monitoring Compounds

1) S SURR1, TCMX	4.610	4.755	1550.3E6	1151.5E6	59.435	58.799
Spiked Amount	100.000	Range	30 - 150	Recovery	= 59.44%	58.80%
2) S SURR2, Dec...	11.371	12.684	1242.3E6	989.2E6	43.373	43.010
Spiked Amount	100.000	Range	30 - 150	Recovery	= 43.37%	43.01%

Target Compounds

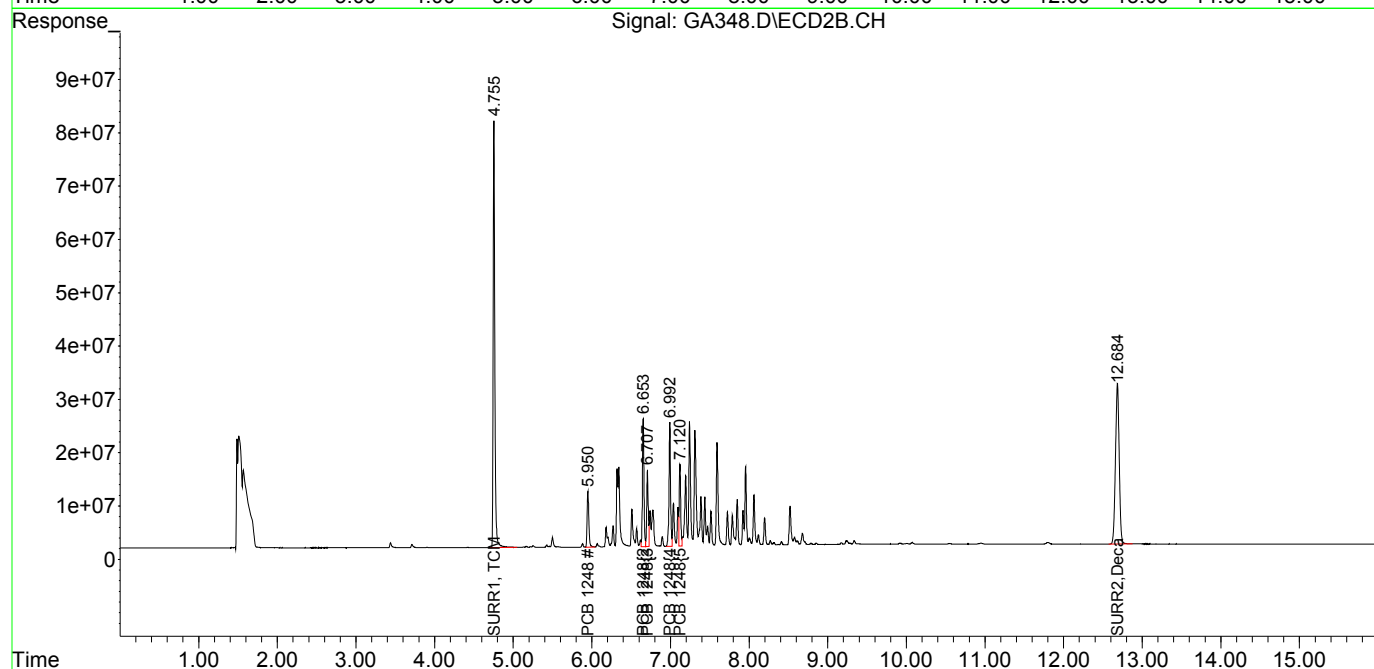
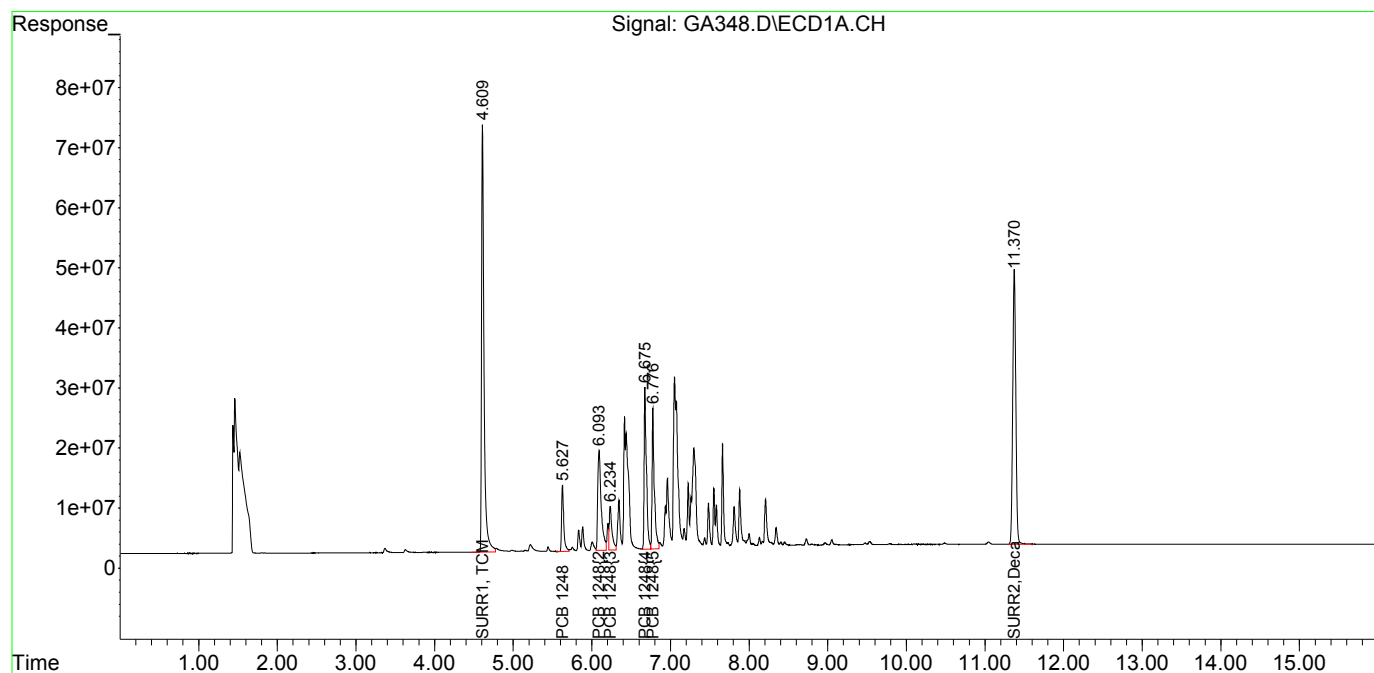
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.627	5.950	208.2E6	158.8E6	534.090	499.440
24) L5c PCB 1248{2}	6.094	6.653	512.3E6	314.3E6	518.440	500.602
25) L5c PCB 1248{3}	6.234	6.707	178.4E6	190.6E6	499.056	507.825
26) L5c PCB 1248{4}	6.675	6.992	549.7E6	323.3E6	543.255	507.167
27) L5c PCB 1248{5}	6.776	7.121	464.1E6	202.4E6	547.100	524.374
Sum PCB 1248			1912.8E6	1189.3E6	2641.941	2539.408
Average PCB 1248					528.388	507.882
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA348.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 4:05 pm  
Operator : M.Pedro  
Sample : ar1248 m  
Misc : initial cal  
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:35:01 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:34:52 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA349.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 4:24 pm  
 Operator : M.Pedro  
 Sample : ar1248 mh  
 Misc : initial cal  
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:35:55 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:35:46 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

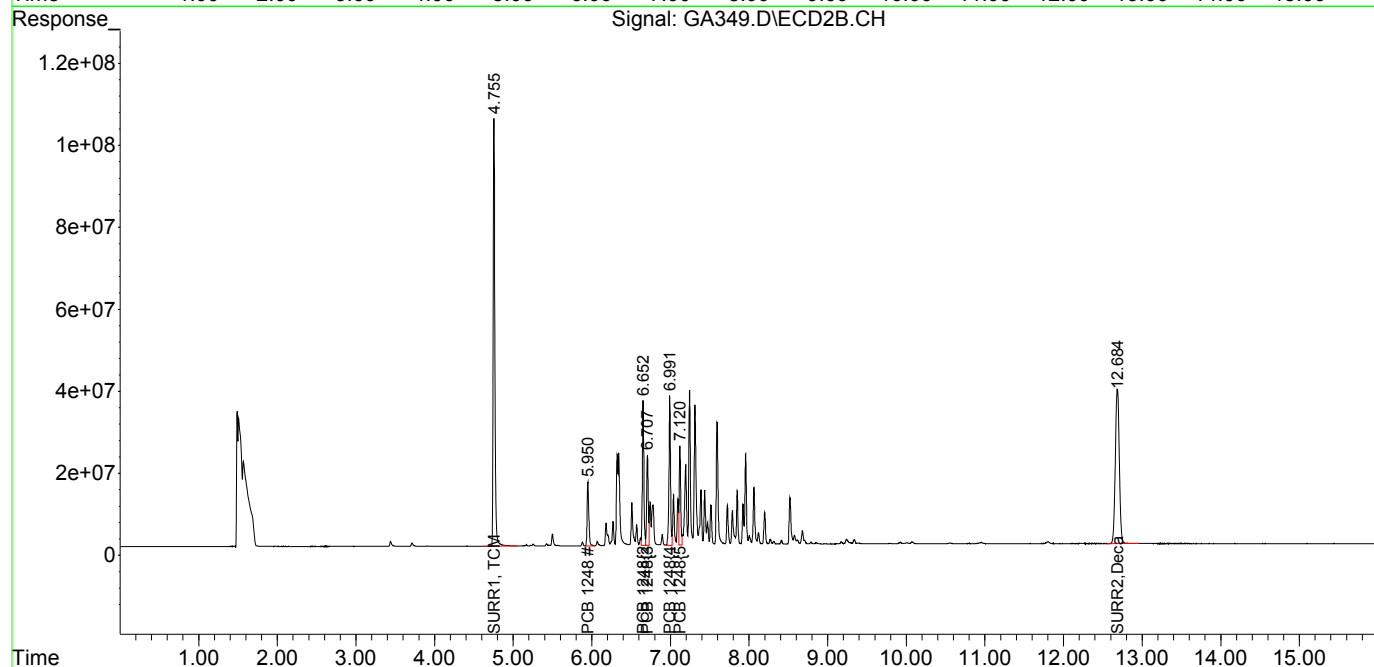
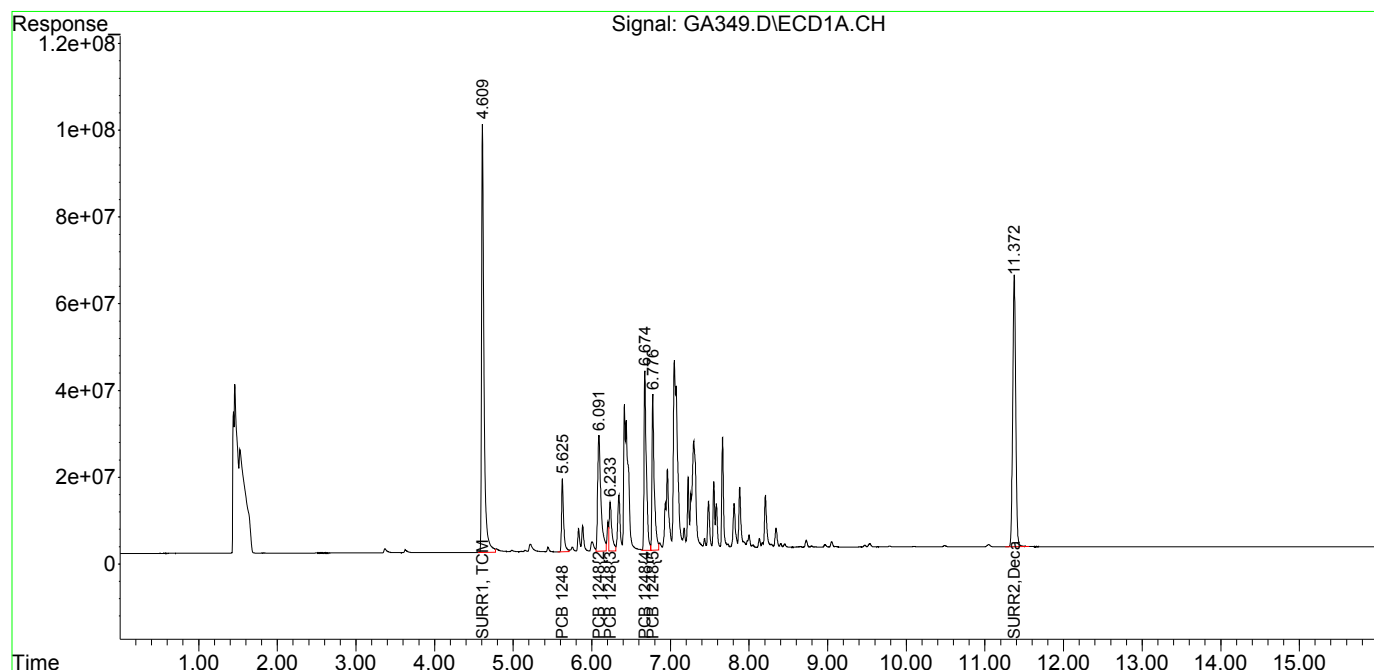
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
-----						
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2099.7E6	1548.9E6	80.584	79.266
Spiked Amount	100.000	Range	30 - 150	Recovery =	80.58%	79.27%
2) S SURR2, Dec...	11.372	12.684	1658.1E6	1327.7E6	62.832	62.600
Spiked Amount	100.000	Range	30 - 150	Recovery =	62.83%	62.60%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.626	5.950	312.8E6	236.0E6	765.421	732.164
24) L5c PCB 1248{2}	6.092	6.653	784.8E6	471.3E6	772.489	741.510
25) L5c PCB 1248{3}	6.234	6.708	269.6E6	284.9E6	716.365	742.758
26) L5c PCB 1248{4}	6.675	6.992	833.3E6	486.0E6	779.577	748.456
27) L5c PCB 1248{5}	6.776	7.121	708.5E6	303.8E6	790.046	761.537
Sum PCB 1248			2908.9E6	1782.0E6	3823.899	3726.424
Average PCB 1248					764.780	745.285
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA349.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 4:24 pm  
Operator : M.Pedro  
Sample : ar1248 mh  
Misc : initial cal  
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:35:55 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:35:46 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA350.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 4:44 pm  
 Operator : M.Pedro  
 Sample : ar1248 h  
 Misc : initial cal  
 ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:36:41 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:36:33 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

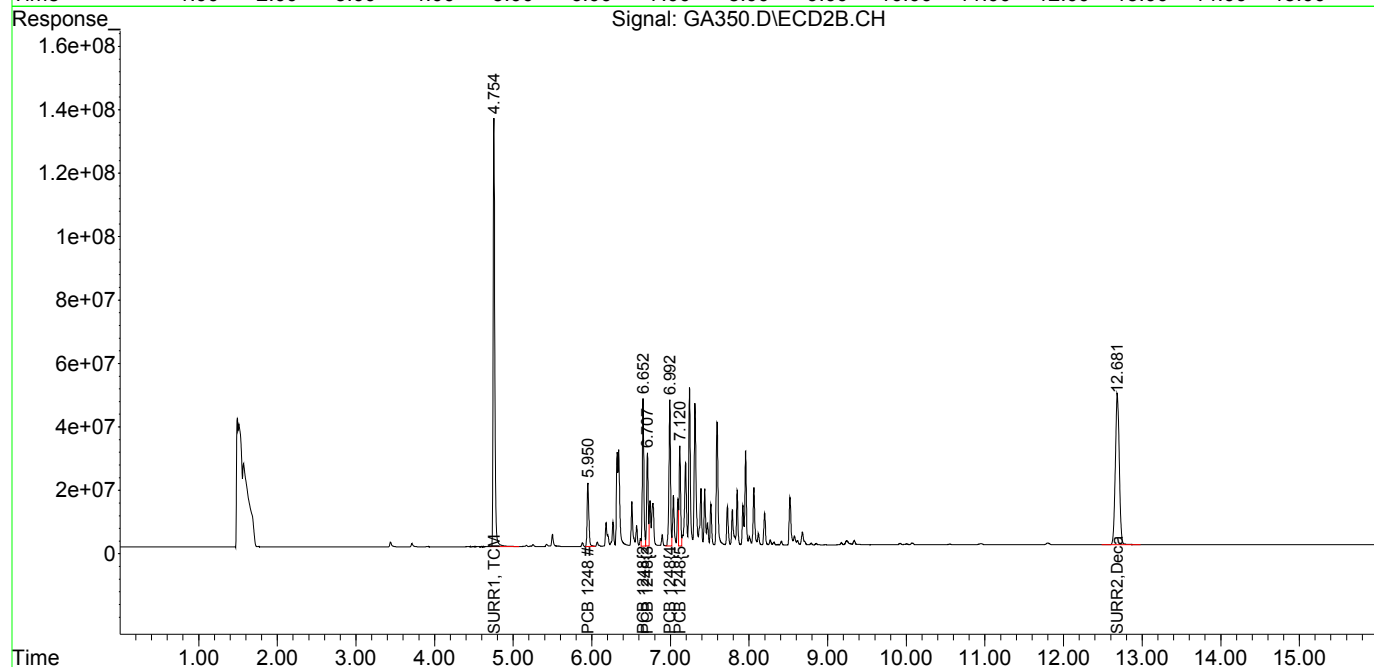
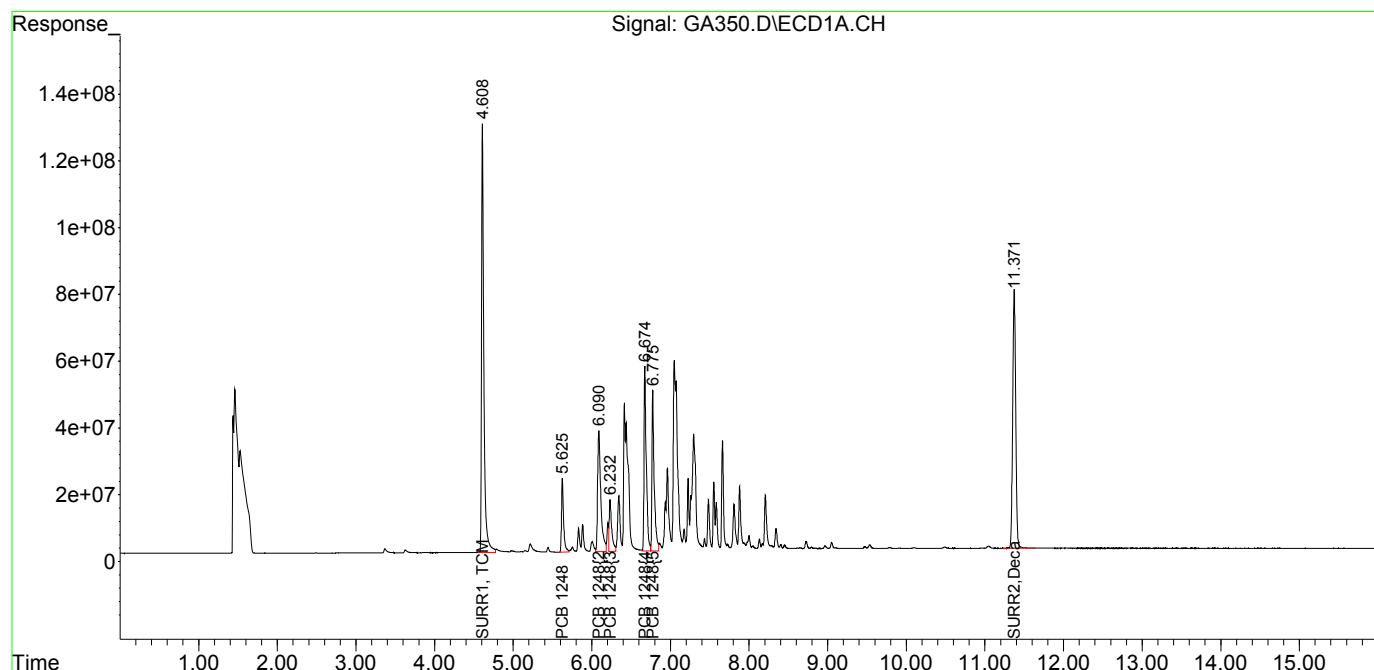
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1, TCMX	4.609	4.755	2632.4E6	1937.7E6	100.743	99.066
Spiked Amount	100.000	Range	30 - 150	Recovery	= 100.74%	99.07%
2) S SURR2, Dec...	11.372	12.682	2065.2E6	1648.9E6	85.541	84.885
Spiked Amount	100.000	Range	30 - 150	Recovery	= 85.54%	84.89%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
23) L5c PCB 1248	5.625	5.950	410.2E6	308.1E6	1003.975	955.987
24) L5c PCB 1248{2}	6.091	6.652	1039.7E6	618.0E6	1023.404	972.165
25) L5c PCB 1248{3}	6.233	6.708	355.2E6	373.0E6	943.947	972.358
26) L5c PCB 1248{4}	6.674	6.992	1097.8E6	638.2E6	1027.048	982.967
27) L5c PCB 1248{5}	6.775	7.120	938.0E6	401.6E6	1045.922	1006.527
Sum PCB 1248			3840.9E6	2338.9E6	5044.296	4890.004
Average PCB 1248					1008.859	978.001
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
Sum PCB 1262			0	0	N.D.	N.D.
Average PCB 1262					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA350.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 4:44 pm  
Operator : M.Pedro  
Sample : ar1248 h  
Misc : initial cal  
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:36:41 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:36:33 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

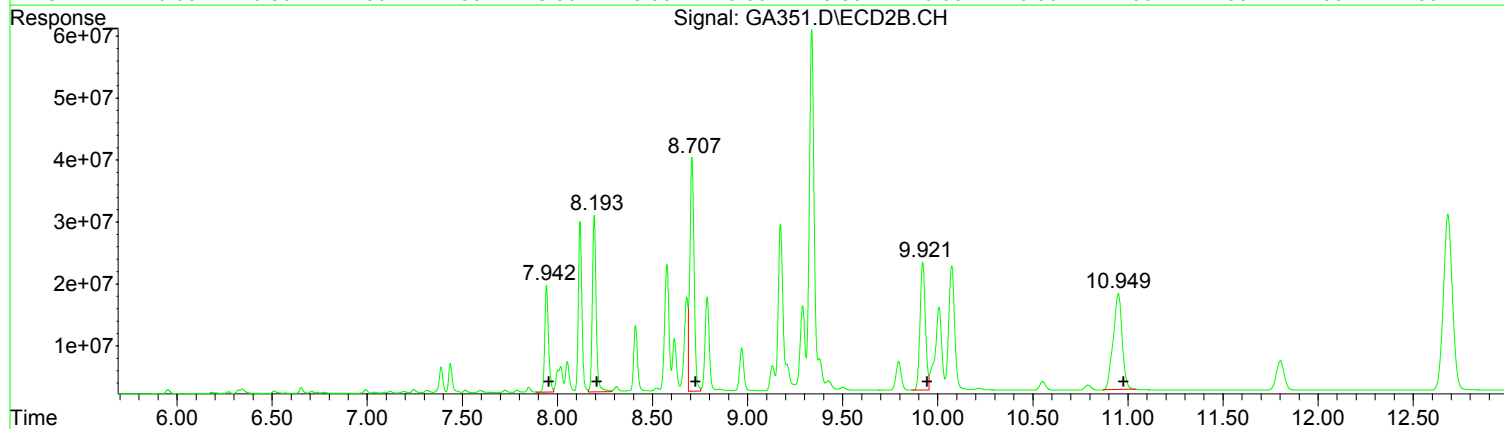
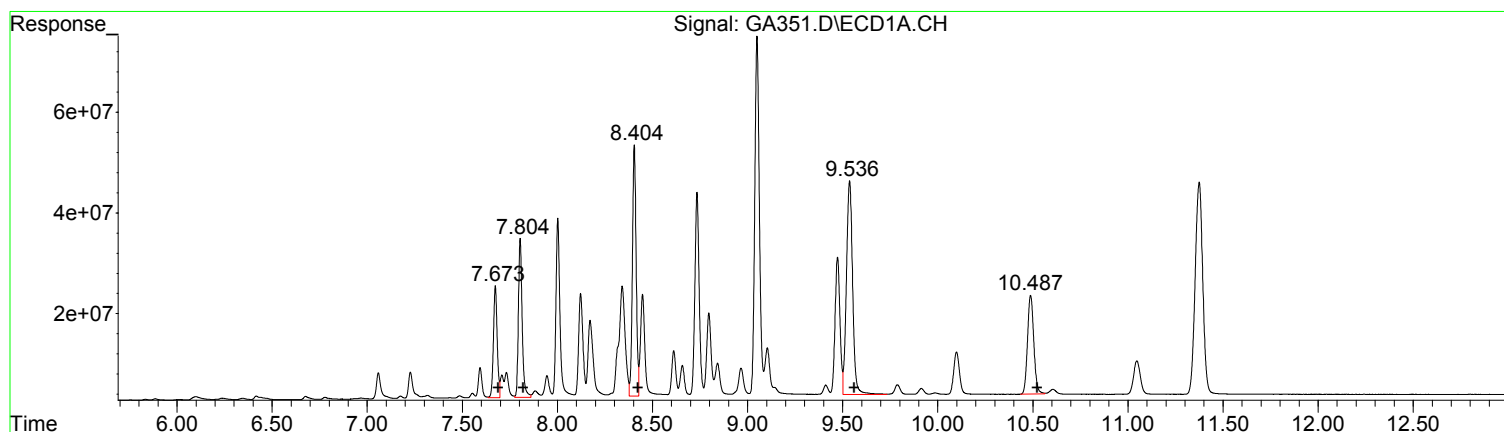




Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(43) PCB 1262 (L9C)		
R.T.	Response	Conc
7.67	302354559	597.81
7.80	435834377	614.98
8.40	693598533	632.95
9.54	963774782	645.76
10.49	446499211	622.02

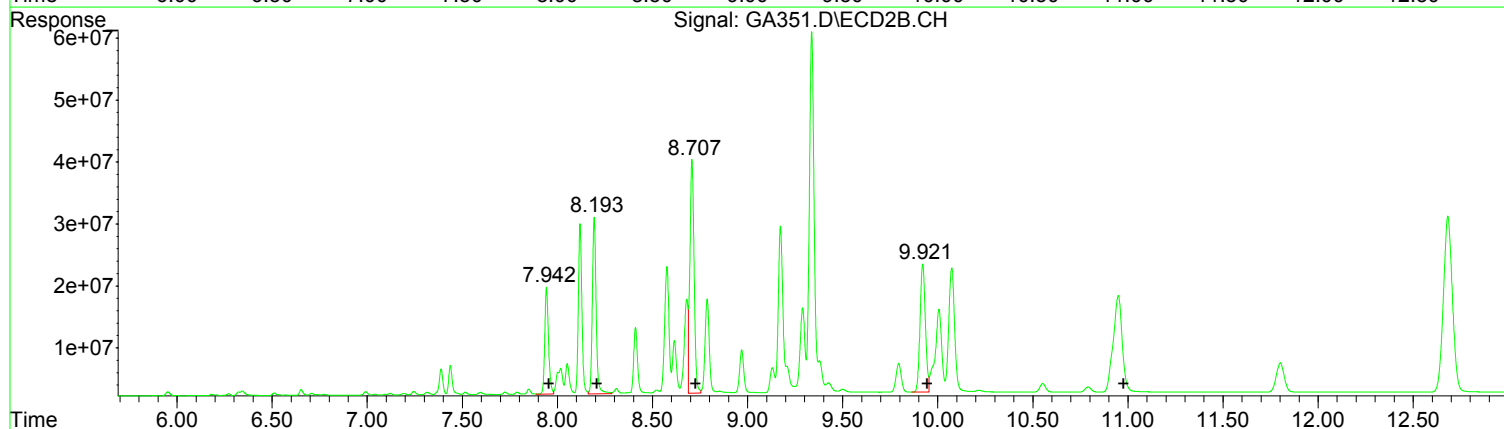
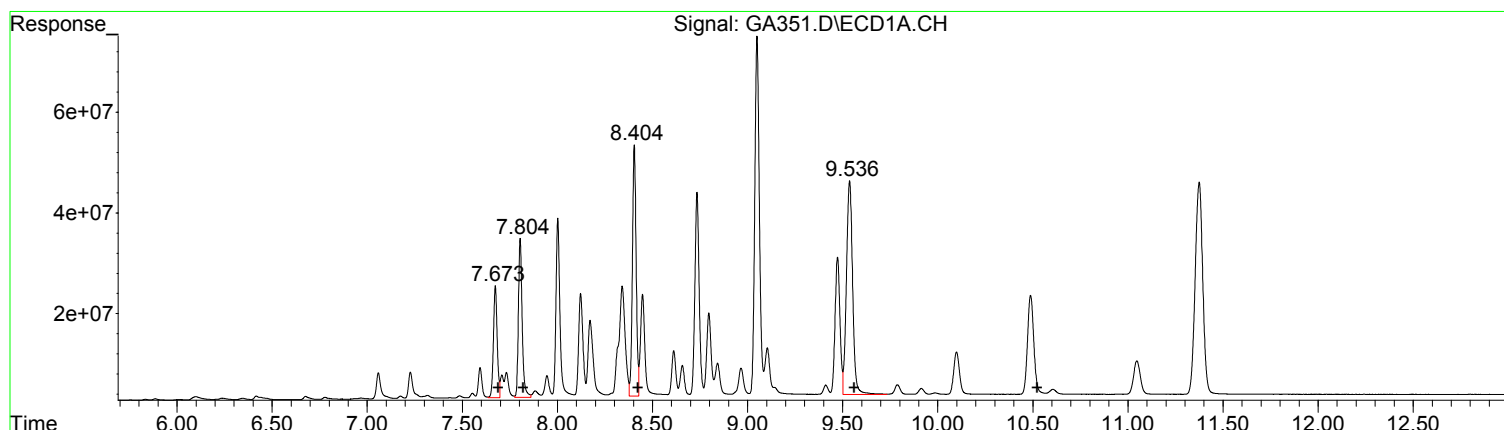
(43) PCB 1262 #2 (L9C)		
R.T.	Response	Conc
7.94	235655341	559.21
8.19	392491866	583.04
8.71	586339125	620.60
9.92	404843127	600.56
10.95	507675140	575.31

Manual Integration:  
After  
Poor integration.  
01/11/18

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(43) PCB 1262 (L9C)		
R.T.	Response	Conc
7.67	302354559	597.81
7.80	435834377	614.98
8.40	693598533	632.95
9.54	963774782	645.76
0.00	0	0.00

Manual Integration:  
Before  
01/11/18

(43) PCB 1262 #2 (L9C)		
R.T.	Response	Conc
7.94	235655341	559.21
8.19	392491866	583.04
8.71	586339125	620.60
9.92	404843127	600.56
0.00	0	0.00

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA351.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 5:04 pm  
 Operator : M.Pedro  
 Sample : ar1262 m  
 Misc : initial cal  
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:37:34 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:37:14 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

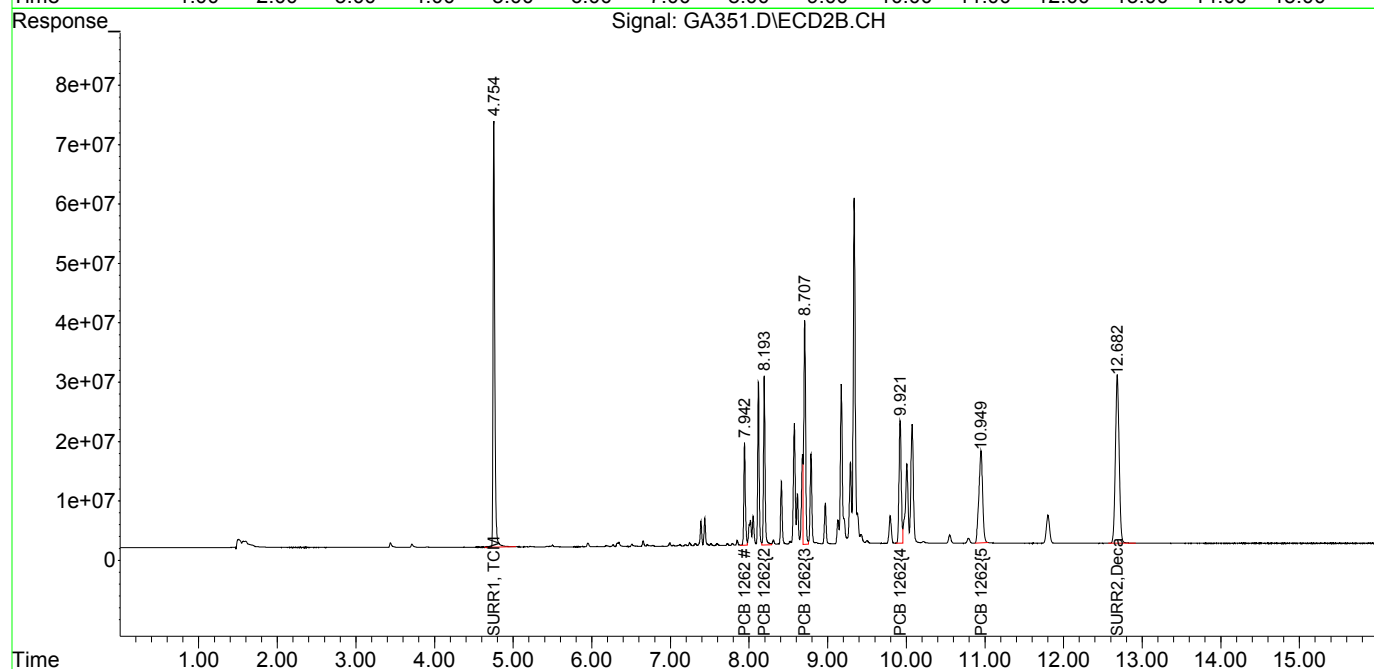
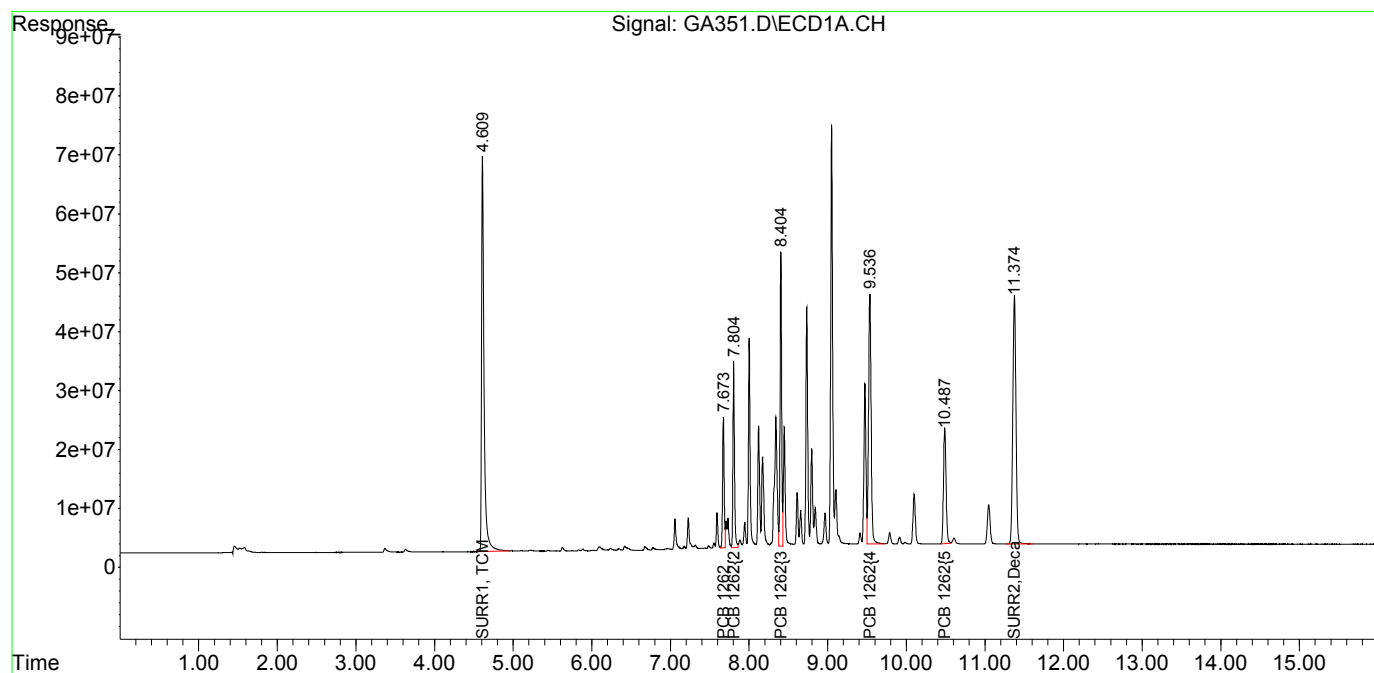
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
System Monitoring Compounds						
1) S SURR1, TCMX	4.610	4.754	1480.3E6	1084.4E6	56.656	55.535
Spiked Amount	100.000	Range	30 - 150	Recovery =	56.66%	55.54%
2) S SURR2, Dec...	11.374	12.682	1173.4E6	935.0E6	54.504	53.859
Spiked Amount	100.000	Range	30 - 150	Recovery =	54.50%	53.86%
Target Compounds						
Sum PCB 1016			0	0	N.D.	N.D.
Average PCB 1016					0.000	0.000
Sum PCB 1221			0	0	N.D.	N.D.
Average PCB 1221					0.000	0.000
Sum PCB 1232			0	0	N.D.	N.D.
Average PCB 1232					0.000	0.000
Sum PCB 1242			0	0	N.D.	N.D.
Average PCB 1242					0.000	0.000
Sum PCB 1248			0	0	N.D.	N.D.
Average PCB 1248					0.000	0.000
Sum PCB 1254			0	0	N.D.	N.D.
Average PCB 1254					0.000	0.000
Sum PCB 1260			0	0	N.D.	N.D.
Average PCB 1260					0.000	0.000
Sum PCB 1268			0	0	N.D.	N.D.
Average PCB 1268					0.000	0.000
43) L9C PCB 1262	7.673	7.942	302.4E6	235.7E6	597.810	559.206
44) L9C PCB 1262{2}	7.804	8.193	435.8E6	392.5E6	614.978	583.042
45) L9C PCB 1262{3}	8.404	8.707	693.6E6	586.3E6	632.951	620.596
46) L9C PCB 1262{4}	9.536	9.921	963.8E6	404.8E6	645.755	600.562
47) L9C PCB 1262{5}	10.487	10.949	446.5E6	507.7E6	622.020m	575.312m
Sum PCB 1262			2842.1E6	2127.0E6	3113.515	2938.719
Average PCB 1262					622.703	587.744

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA351.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:04 pm  
Operator : M.Pedro  
Sample : ar1262 m  
Misc : initial cal  
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:37:34 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:37:14 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

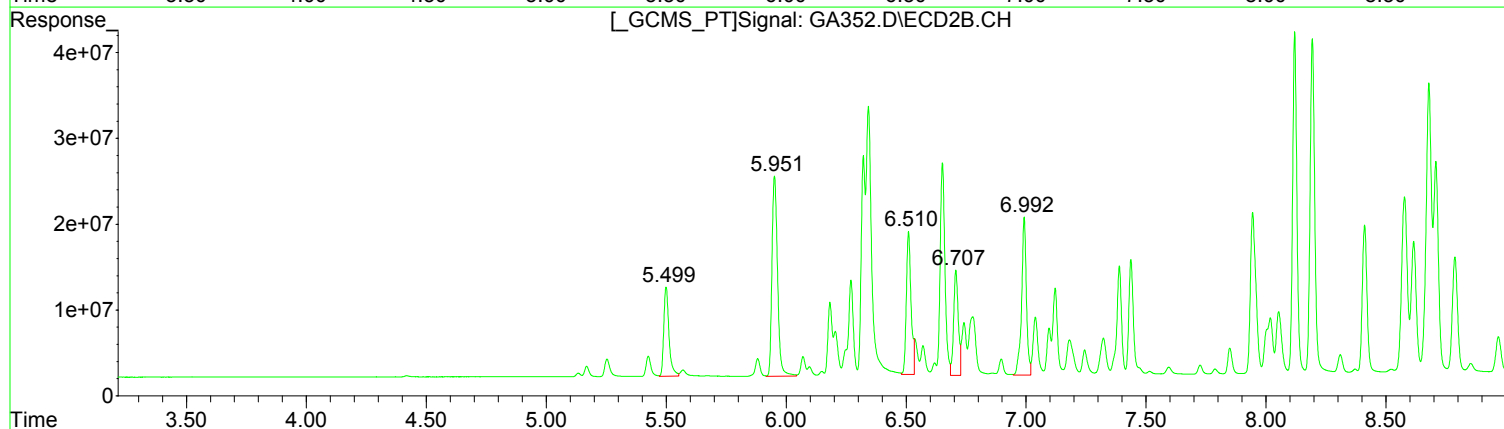
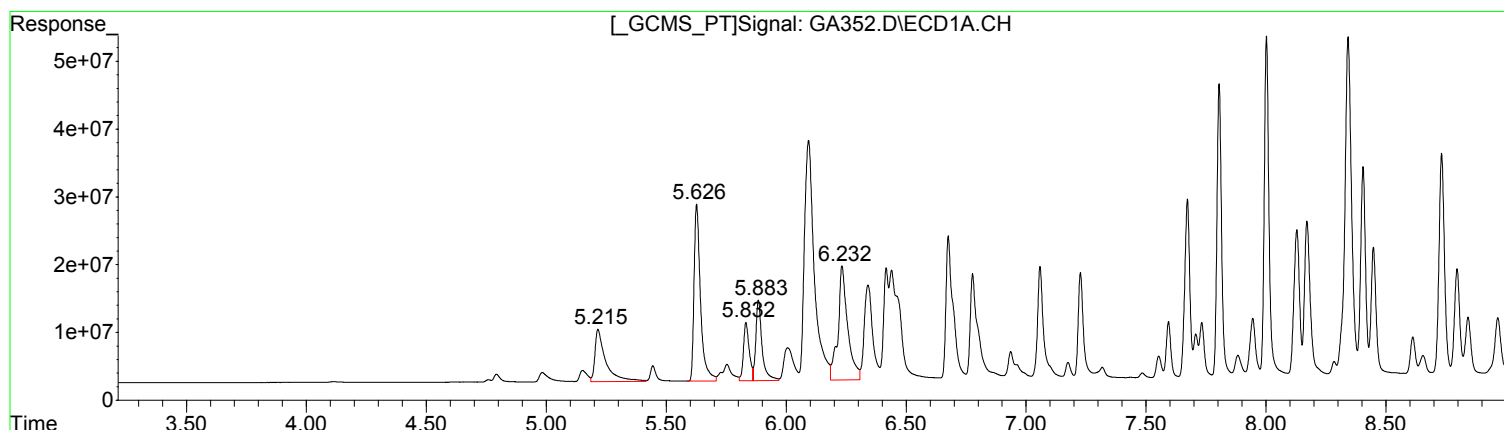
Volume Inj. : 2uL  
Signal #1 Phase : DB-1701  
Signal #1 Info : 0.32mm 30m  
Signal #2 Phase : DB-17  
Signal #2 Info : 0.32mm 30m



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)

R.T.	Response	Conc
5.22	239877935	504.80
5.63	488517082	502.32
5.83	142869753	522.62
5.88	214222354	520.54
6.23	476200868	527.95

Manual Integration:  
After  
Poor integration.  
01/11/18

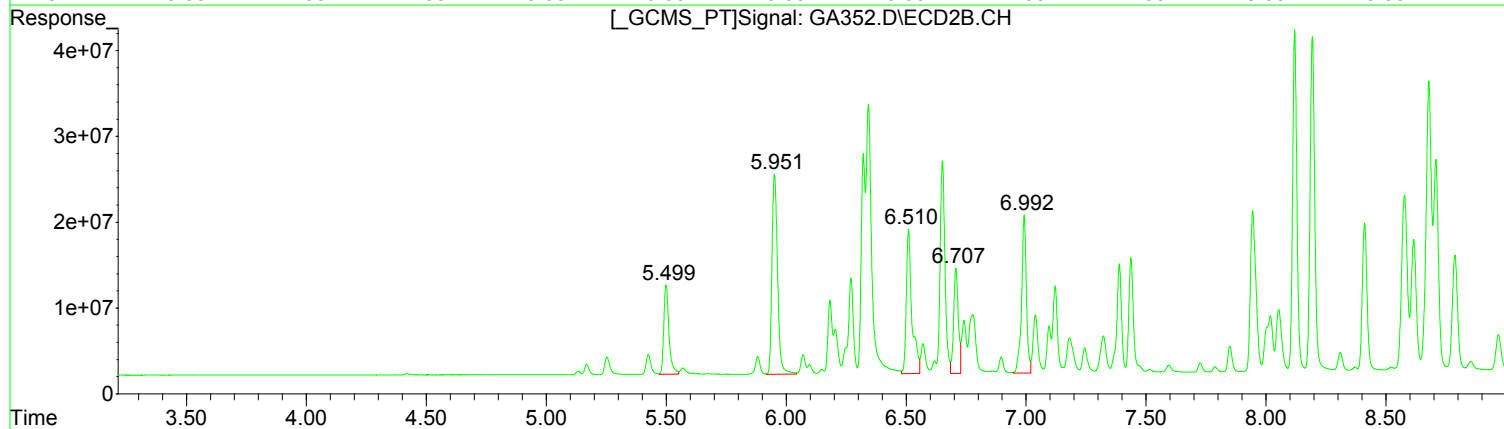
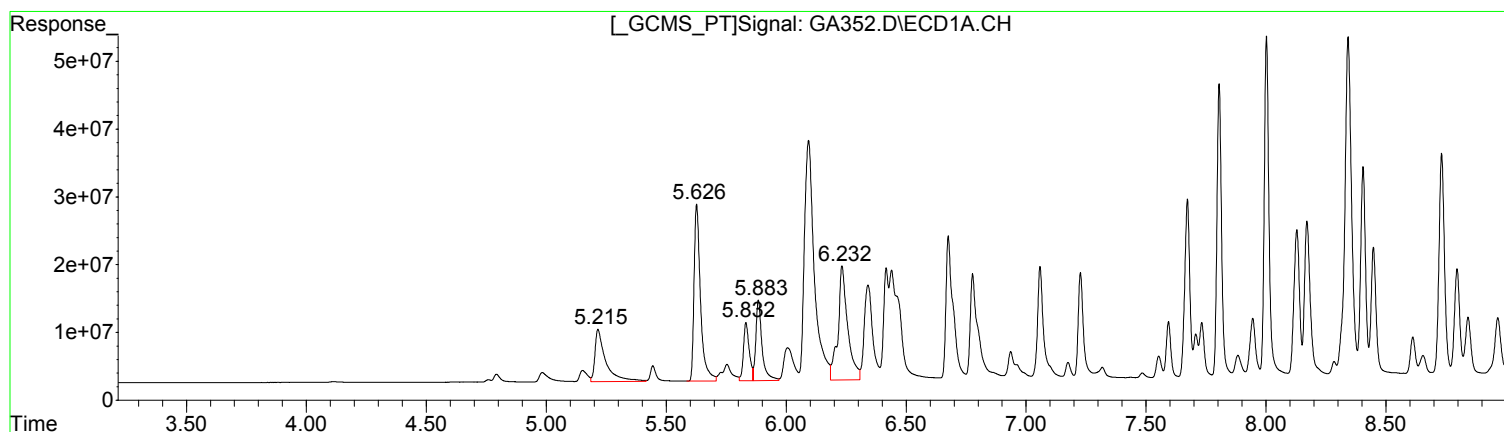
(3) PCB 1016 #2 (L1c)

R.T.	Response	Conc
5.50	156602428	475.93
5.95	377320173	496.21
6.51	229519446	483.20
6.71	164252465	508.26
6.99	256564310	465.81

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m



(3) PCB 1016 (L1c)		
R.T.	Response	Conc
5.22	239877935	504.80
5.63	488517082	502.32
5.83	142869753	522.62
5.88	214222354	520.54
6.23	476200868	527.95

Manual Integration:  
Before  
01/11/18

(3) PCB 1016 #2 (L1c)		
R.T.	Response	Conc
5.50	156602428	475.93
5.95	377320173	496.21
6.51	271487322	571.56
6.71	164252465	508.26
6.99	256564310	465.81

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
3 L1c PCB 1016	500.000	504.797	-1.0	98	0.00
4 L1c PCB 1016{2}	500.000	502.323	-0.5	103	0.00
5 L1c PCB 1016{3}	500.000	522.616	-4.5	103	0.00
6 L1c PCB 1016{4}	500.000	520.543	-4.1	105	0.00
7 L1c PCB 1016{5}	500.000	527.946	-5.6	106	0.00
33 L7c PCB 1260	500.000	456.255	8.7	95	0.00
34 L7c PCB 1260{2}	500.000	444.461	11.1	94	0.00
35 L7c PCB 1260{3}	500.000	474.115	5.2	96	0.00
36 L7C PCB 1260{4}	500.000	488.008	2.4	98	0.00
37 L7C PCB 1260{5}	500.000	514.834	-3.0	104	0.00

Signal #2

3 L1c PCB 1016	500.000	475.931	4.8	98	0.00
4 L1c PCB 1016{2}	500.000	496.211	0.8	103	0.00
5 L1c PCB 1016{3}	500.000	483.202	3.4	103	0.00
6 L1c PCB 1016{4}	500.000	508.259	-1.7	105	0.00
7 L1c PCB 1016{5}	500.000	465.811	6.8	95	0.00
33 L7c PCB 1260	500.000	448.314	10.3	93	0.00
34 L7c PCB 1260{2}	500.000	487.790	2.4	99	0.00
35 L7c PCB 1260{3}	500.000	485.881	2.8	98	0.00
36 L7C PCB 1260{4}	500.000	475.085	5.0	97	0.00
37 L7C PCB 1260{5}	500.000	502.386	-0.5	103	0.00

Evaluate Continuing Calibration Report - Not Found

1 S SURR1, TCMX	60.000	0.000	100.0#	0	-4.61#
2 S SURR2, Decachlorobiphenyl	60.000	0.000	100.0#	0	-11.37#
8 L2c PCB 1221	500.000	0.000	100.0#	0	-4.11#
9 L2c PCB 1221{2}	500.000	0.000	100.0#	0	-4.98#
10 L2c PCB 1221{3}	500.000	0.000	100.0#	0	-5.15#
11 L2c PCB 1221{4}	500.000	0.000	100.0#	0	-5.22#
12 L2c PCB 1221{5}	500.000	0.000	100.0#	0	-5.63#
13 L3c PCB 1232	500.000	0.000	100.0#	0	-5.22#
14 L3c PCB 1232{2}	500.000	0.000	100.0#	0	-5.63#
15 L3c PCB 1232{3}	500.000	0.000	100.0#	0	-6.09#
16 L3c PCB 1232{4}	500.000	0.000	100.0#	0	-6.23#
17 L3c PCB 1232{5}	500.000	0.000	100.0#	0	-6.68#
18 L4c PCB 1242	500.000	0.000	100.0#	0	-5.22#
19 L4c PCB 1242{2}	500.000	0.000	100.0#	0	-5.88#
20 L4c PCB 1242{3}	500.000	0.000	100.0#	0	-6.09#
21 L4c PCB 1242{4}	500.000	0.000	100.0#	0	-6.68#
22 L4c PCB 1242{5}	500.000	0.000	100.0#	0	-6.78#
23 L5c PCB 1248	500.000	0.000	100.0#	0	-5.63#

Data Path : I:\ACQUDATA\6890D\DATA\011018\  
Data File : GA352.D  
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
Acq On : 10 Jan 2018 5:23 pm  
Operator : M.Pedro  
Sample : ar1660 icv  
Misc : initial cal  
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
Integration File signal 2: AUTOINT2.E  
Quant Time: Jan 11 07:43:28 2018  
Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
Quant Title : 608/8082 PCB'S  
QLast Update : Thu Jan 11 07:42:59 2018  
Response via : Initial Calibration  
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24 L5c PCB 1248{2}	500.000	0.000	100.0#	0	-6.09#
25 L5c PCB 1248{3}	500.000	0.000	100.0#	0	-6.23#
26 L5c PCB 1248{4}	500.000	0.000	100.0#	0	-6.68#
27 L5c PCB 1248{5}	500.000	0.000	100.0#	0	-6.78#
28 L6c PCB 1254	500.000	0.000	100.0#	0	-7.49#
29 L6c PCB 1254{2}	500.000	0.000	100.0#	0	-7.55#
30 L6c PCB 1254{3}	500.000	0.000	100.0#	0	-7.66#
31 L6c PCB 1254{4}	500.000	0.000	100.0#	0	-7.81#
32 L6c PCB 1254{5}	500.000	0.000	100.0#	0	-8.73#
38 L8C PCB 1268	500.000	0.000	100.0	0	-8.40#
39 L8C PCB 1268{2}	500.000	0.000	100.0	0	-8.66#
40 L8C PCB 1268{3}	500.000	0.000	100.0	0	-9.79#
41 L8C PCB 1268{4}	500.000	0.000	100.0	0	-9.91#
42 L8C PCB 1268{5}	500.000	0.000	100.0	0	-10.49#
43 L9C PCB 1262	500.000	0.000	100.0	0	-7.67#
44 L9C PCB 1262{2}	500.000	0.000	100.0	0	-7.80#
45 L9C PCB 1262{3}	500.000	0.000	100.0	0	-8.40#
46 L9C PCB 1262{4}	500.000	0.000	100.0	0	-9.54#
47 L9C PCB 1262{5}	500.000	0.000	100.0	0	-10.49#

Signal #2

1 S SURR1, TCMX	60.000	0.000	100.0#	0	-4.76#
2 S SURR2,Decachlorobiphenyl	60.000	0.000	100.0#	0	-12.68#
8 L2c PCB 1221	500.000	0.000	100.0#	0	-4.42#
9 L2c PCB 1221{2}	500.000	0.000	100.0#	0	-5.25#
10 L2c PCB 1221{3}	500.000	0.000	100.0#	0	-5.43#
11 L2c PCB 1221{4}	500.000	0.000	100.0#	0	-5.50#
12 L2c PCB 1221{5}	500.000	0.000	100.0#	0	-5.57#
13 L3c PCB 1232	500.000	0.000	100.0#	0	-5.43#
14 L3c PCB 1232{2}	500.000	0.000	100.0#	0	-5.50#
15 L3c PCB 1232{3}	500.000	0.000	100.0#	0	-5.95#
16 L3c PCB 1232{4}	500.000	0.000	100.0#	0	-7.24#
17 L3c PCB 1232{5}	500.000	0.000	100.0#	0	-7.31#
18 L4c PCB 1242	500.000	0.000	100.0#	0	-5.50#
19 L4c PCB 1242{2}	500.000	0.000	100.0#	0	-5.95#
20 L4c PCB 1242{3}	500.000	0.000	100.0#	0	-6.99#
21 L4c PCB 1242{4}	500.000	0.000	100.0#	0	-7.31#
22 L4c PCB 1242{5}	500.000	0.000	100.0#	0	-7.59#
23 L5c PCB 1248	500.000	0.000	100.0#	0	-5.95#
24 L5c PCB 1248{2}	500.000	0.000	100.0#	0	-6.65#
25 L5c PCB 1248{3}	500.000	0.000	100.0#	0	-6.71#
26 L5c PCB 1248{4}	500.000	0.000	100.0#	0	-6.99#
27 L5c PCB 1248{5}	500.000	0.000	100.0#	0	-7.12#



Data Path : I:\ACQUDATA\6890D\DATA\011018\  
 Data File : GA352.D  
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH  
 Acq On : 10 Jan 2018 5:23 pm  
 Operator : M.Pedro  
 Sample : ar1660 icv  
 Misc : initial cal  
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: AUTOINT1.E  
 Integration File signal 2: AUTOINT2.E  
 Quant Time: Jan 11 07:43:28 2018  
 Quant Method : I:\ACQUDATA\6890D\METHODS\PCB011018.M  
 Quant Title : 608/8082 PCB'S  
 QLast Update : Thu Jan 11 07:42:59 2018  
 Response via : Initial Calibration  
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. : 2uL  
 Signal #1 Phase : DB-1701 Signal #2 Phase: DB-17  
 Signal #1 Info : 0.32mm 30m Signal #2 Info : 0.32mm 30m

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28 L6c PCB 1254	500.000	0.000	100.0#	0	-7.44#
29 L6c PCB 1254{2}	500.000	0.000	100.0#	0	-7.85#
30 L6c PCB 1254{3}	500.000	0.000	100.0#	0	-8.06#
31 L6c PCB 1254{4}	500.000	0.000	100.0#	0	-8.68#
32 L6c PCB 1254{5}	500.000	0.000	100.0#	0	-9.24#
38 L8C PCB 1268	500.000	0.000	100.0	0	-8.71#
39 L8C PCB 1268{2}	500.000	0.000	100.0	0	-9.13#
40 L8C PCB 1268{3}	500.000	0.000	100.0	0	-10.55#
41 L8C PCB 1268{4}	500.000	0.000	100.0	0	-10.79#
42 L8C PCB 1268{5}	500.000	0.000	100.0	0	-10.95#
43 L9C PCB 1262	500.000	0.000	100.0	0	-7.94#
44 L9C PCB 1262{2}	500.000	0.000	100.0	0	-8.19#
45 L9C PCB 1262{3}	500.000	0.000	100.0	0	-8.71#
46 L9C PCB 1262{4}	500.000	0.000	100.0	0	-9.92#
47 L9C PCB 1262{5}	500.000	0.000	100.0	0	-10.95#

(#) = Out of Range

SPCC's out = 0 CCC's out = 50

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800011-01	ar1660l	I:\ACQUDATA\6890D\DATA\011018\GA325.D	01/10/2018 08:32
02	RC1800011-02	ar1660l	I:\ACQUDATA\6890D\DATA\011018\GA326.D	01/10/2018 08:52
03	RC1800011-03	ar1660ml	I:\ACQUDATA\6890D\DATA\011018\GA327.D	01/10/2018 09:11
04	RC1800011-04	ar1660m	I:\ACQUDATA\6890D\DATA\011018\GA328.D	01/10/2018 09:31
05	RC1800011-05	ar1660h	I:\ACQUDATA\6890D\DATA\011018\GA329.D	01/10/2018 09:51
06	RC1800011-06	ar1660mh	I:\ACQUDATA\6890D\DATA\011018\GA330.D	01/10/2018 10:11
07	RC1800011-07	ar1221/1254 l	I:\ACQUDATA\6890D\DATA\011018\GA331.D	01/10/2018 10:30
08	RC1800011-08	ar1221/1254 ml	I:\ACQUDATA\6890D\DATA\011018\GA332.D	01/10/2018 10:50
09	RC1800011-09	ar1221/1254 m	I:\ACQUDATA\6890D\DATA\011018\GA333.D	01/10/2018 11:09
10	RC1800011-10	ar1221/1254 mh	I:\ACQUDATA\6890D\DATA\011018\GA334.D	01/10/2018 11:29
11	RC1800011-11	ar1221/1254 h	I:\ACQUDATA\6890D\DATA\011018\GA335.D	01/10/2018 11:50
12	RC1800011-12	ar1232 l	I:\ACQUDATA\6890D\DATA\011018\GA336.D	01/10/2018 12:09
13	RC1800011-13	ar1232 ml	I:\ACQUDATA\6890D\DATA\011018\GA337.D	01/10/2018 12:29
14	RC1800011-14	ar1232 m	I:\ACQUDATA\6890D\DATA\011018\GA338.D	01/10/2018 12:49
15	RC1800011-15	ar1232 mh	I:\ACQUDATA\6890D\DATA\011018\GA339.D	01/10/2018 13:08
16	RC1800011-16	ar1232 h	I:\ACQUDATA\6890D\DATA\011018\GA340.D	01/10/2018 13:28
17	RC1800011-17	ar1242/68 l	I:\ACQUDATA\6890D\DATA\011018\GA341.D	01/10/2018 13:47
18	RC1800011-18	ar1242/68 ml	I:\ACQUDATA\6890D\DATA\011018\GA342.D	01/10/2018 14:07
19	RC1800011-19	ar1242/68 m	I:\ACQUDATA\6890D\DATA\011018\GA343.D	01/10/2018 14:27
20	RC1800011-20	ar1242/68 mh	I:\ACQUDATA\6890D\DATA\011018\GA344.D	01/10/2018 14:46
21	RC1800011-21	ar1242/68 h	I:\ACQUDATA\6890D\DATA\011018\GA345.D	01/10/2018 15:06
22	RC1800011-22	ar1248 l	I:\ACQUDATA\6890D\DATA\011018\GA346.D	01/10/2018 15:26
23	RC1800011-23	ar1248 ml	I:\ACQUDATA\6890D\DATA\011018\GA347.D	01/10/2018 15:45
24	RC1800011-24	ar1248 m	I:\ACQUDATA\6890D\DATA\011018\GA348.D	01/10/2018 16:05
25	RC1800011-25	ar1248 mh	I:\ACQUDATA\6890D\DATA\011018\GA349.D	01/10/2018 16:24
26	RC1800011-26	ar1248 h	I:\ACQUDATA\6890D\DATA\011018\GA350.D	01/10/2018 16:44
27	RC1800011-27	ar1262 m	I:\ACQUDATA\6890D\DATA\011018\GA351.D	01/10/2018 17:04

**Analyte**

**Aroclor 1016 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	3.693E5	02	100.000	3.84E5	03	250.000	3.323E5	04	500.000	3.196E5
06	750.000	2.766E5	05	1000.000	2.925E5						

**Aroclor 1016 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	9.224E5	02	100.000	8.665E5	03	250.000	7.504E5	04	500.000	7.299E5
06	750.000	6.259E5	05	1000.000	6.673E5						

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

**Analyte**

**Aroclor 1016 {3}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	5.072E5	02	100.000	4.985E5	03	250.000	5.279E5	04	500.000	4.459E5
06	750.000	4.548E5	05	1000.000	4.158E5						

**Aroclor 1016 {4}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	3.768E5	02	100.000	3.696E5	03	250.000	3.189E5	04	500.000	3.127E5
06	750.000	2.707E5	05	1000.000	2.903E5						

**Aroclor 1016 {5}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	6.366E5	02	100.000	6.169E5	03	250.000	5.388E5	04	500.000	5.394E5
06	750.000	4.673E5	05	1000.000	5.057E5						

**Aroclor 1221 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	1.591E5	08	250.000	1.501E5	09	500.000	1.437E5	10	750.000	1.409E5
11	1000.000	1.337E5									

**Aroclor 1221 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	2.297E5	08	250.000	2.186E5	09	500.000	2.173E5	10	750.000	2.179E5
11	1000.000	2.116E5									

**Aroclor 1221 {3}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	1.479E5	08	250.000	1.417E5	09	500.000	1.401E5	10	750.000	1.405E5
11	1000.000	1.343E5									

**Aroclor 1221 {4}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	4.6E5	08	250.000	4.37E5	09	500.000	4.345E5	10	750.000	4.364E5
11	1000.000	4.169E5									

**Aroclor 1221 {5}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	8.336E4	08	250.000	7.938E4	09	500.000	8.349E4	10	750.000	8.237E4
11	1000.000	7.792E4									

**Aroclor 1232 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	1.351E5	13	250.000	1.21E5	14	500.000	1.234E5	15	750.000	1.143E5
16	1000.000	1.086E5									

**Aroclor 1232 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	4.756E5	13	250.000	4.162E5	14	500.000	4.264E5	15	750.000	3.958E5
16	1000.000	3.816E5									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte

Aroclor 1232 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	4.745E5	13	250.000	4.172E5	14	500.000	4.264E5	15	750.000	3.986E5
16	1000.000	3.834E5									

Aroclor 1232 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	2.547E5	13	250.000	2.262E5	14	500.000	2.3E5	15	750.000	2.157E5
16	1000.000	2.09E5									

Aroclor 1232 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	3.078E5	13	250.000	2.762E5	14	500.000	2.833E5	15	750.000	2.673E5
16	1000.000	2.594E5									

Aroclor 1242 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	2.852E5	18	250.000	2.779E5	19	500.000	2.74E5	20	750.000	2.626E5
21	1000.000	2.611E5									

Aroclor 1242 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	6.331E5	18	250.000	6.282E5	19	500.000	6.072E5	20	750.000	5.853E5
21	1000.000	5.901E5									

Aroclor 1242 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	4.643E5	18	250.000	4.696E5	19	500.000	4.623E5	20	750.000	4.472E5
21	1000.000	4.595E5									

Aroclor 1242 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	5.011E5	18	250.000	5.061E5	19	500.000	4.965E5	20	750.000	4.788E5
21	1000.000	4.915E5									

Aroclor 1242 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	4.095E5	18	250.000	4.198E5	19	500.000	4.204E5	20	750.000	4.051E5
21	1000.000	4.215E5									

Aroclor 1248 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	3.592E5	23	250.000	3.25E5	24	500.000	3.176E5	25	750.000	3.146E5
26	1000.000	3.081E5									

Aroclor 1248 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	6.987E5	23	250.000	6.343E5	24	500.000	6.285E5	25	750.000	6.285E5
26	1000.000	6.18E5									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte

Aroclor 1248 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	4.268E5	23	250.000	3.853E5	24	500.000	3.811E5	25	750.000	3.799E5
26	1000.000	3.73E5									

Aroclor 1248 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	7.126E5	23	250.000	6.486E5	24	500.000	6.467E5	25	750.000	6.48E5
26	1000.000	6.382E5									

Aroclor 1248 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	4.361E5	23	250.000	4.03E5	24	500.000	4.048E5	25	750.000	4.051E5
26	1000.000	4.016E5									

Aroclor 1254 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	9.026E5	08	250.000	7.708E5	09	500.000	8.115E5	10	750.000	8.035E5
11	1000.000	7.732E5									

Aroclor 1254 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	6.759E5	08	250.000	6.041E5	09	500.000	6.513E5	10	750.000	6.26E5
11	1000.000	6.086E5									

Aroclor 1254 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	1.004E6	08	250.000	8.614E5	09	500.000	9.251E5	10	750.000	9.197E5
11	1000.000	8.849E5									

Aroclor 1254 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	1.048E6	08	250.000	9.132E5	09	500.000	1.002E6	10	750.000	9.953E5
11	1000.000	9.631E5									

Aroclor 1254 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	5.137E5	08	250.000	4.5E5	09	500.000	4.912E5	10	750.000	4.893E5
11	1000.000	4.754E5									

Aroclor 1260 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.441E6	02	100.000	1.346E6	03	250.000	1.16E6	04	500.000	1.145E6
06	750.000	9.92E5	05	1000.000	1.072E6						

Aroclor 1260 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	8.406E5	02	100.000	7.954E5	03	250.000	7.085E5	04	500.000	7.165E5
06	750.000	6.266E5	05	1000.000	6.775E5						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte

Aroclor 1260 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.969E6	02	100.000	1.866E6	03	250.000	1.69E6	04	500.000	1.722E6
06	750.000	1.517E6	05	1000.000	1.656E6						

Aroclor 1260 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.09E6	02	100.000	1.062E6	03	250.000	9.507E5	04	500.000	9.518E5
06	750.000	8.388E5	05	1000.000	9.221E5						

Aroclor 1260 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	6.853E5	02	100.000	6.54E5	03	250.000	6.018E5	04	500.000	5.935E5
06	750.000	5.282E5	05	1000.000	5.839E5						

Decachlorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	1.981E7	02	20.000	1.694E7	03	40.000	1.614E7	04	60.000	1.567E7
06	80.000	1.421E7	05	100.000	1.573E7						

Tetrachloro-m-xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.029E7	02	20.000	1.973E7	03	40.000	1.908E7	04	60.000	1.922E7
06	80.000	1.688E7	05	100.000	1.855E7						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-17

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1016 {1}	MULTI	Average RF	% RSD	12.8	20	3.29E5	
Aroclor 1016 {2}	MULTI	Average RF	% RSD	15.0	20	7.604E5	
Aroclor 1016 {3}	MULTI	Average RF	% RSD	9.0	20	4.75E5	
Aroclor 1016 {4}	MULTI	Average RF	% RSD	13.1	20	3.232E5	
Aroclor 1016 {5}	MULTI	Average RF	% RSD	11.8	20	5.508E5	
Aroclor 1221 {1}	MULTI	Average RF	% RSD	6.6	20	1.455E5	
Aroclor 1221 {2}	MULTI	Average RF	% RSD	3.0	20	2.19E5	
Aroclor 1221 {3}	MULTI	Average RF	% RSD	3.4	20	1.409E5	
Aroclor 1221 {4}	MULTI	Average RF	% RSD	3.5	20	4.37E5	
Aroclor 1221 {5}	MULTI	Average RF	% RSD	3.1	20	8.131E4	
Aroclor 1232 {1}	MULTI	Average RF	% RSD	8.3	20	1.205E5	
Aroclor 1232 {2}	MULTI	Average RF	% RSD	8.6	20	4.191E5	
Aroclor 1232 {3}	MULTI	Average RF	% RSD	8.3	20	4.2E5	
Aroclor 1232 {4}	MULTI	Average RF	% RSD	7.7	20	2.271E5	
Aroclor 1232 {5}	MULTI	Average RF	% RSD	6.7	20	2.788E5	
Aroclor 1242 {1}	MULTI	Average RF	% RSD	3.8	20	2.722E5	
Aroclor 1242 {2}	MULTI	Average RF	% RSD	3.6	20	6.088E5	
Aroclor 1242 {3}	MULTI	Average RF	% RSD	1.8	20	4.606E5	
Aroclor 1242 {4}	MULTI	Average RF	% RSD	2.1	20	4.948E5	
Aroclor 1242 {5}	MULTI	Average RF	% RSD	1.8	20	4.153E5	
Aroclor 1248 {1}	MULTI	Average RF	% RSD	6.2	20	3.249E5	
Aroclor 1248 {2}	MULTI	Average RF	% RSD	5.1	20	6.416E5	
Aroclor 1248 {3}	MULTI	Average RF	% RSD	5.5	20	3.892E5	
Aroclor 1248 {4}	MULTI	Average RF	% RSD	4.6	20	6.588E5	
Aroclor 1248 {5}	MULTI	Average RF	% RSD	3.6	20	4.101E5	
Aroclor 1254 {1}	MULTI	Average RF	% RSD	6.6	20	8.123E5	
Aroclor 1254 {2}	MULTI	Average RF	% RSD	4.8	20	6.332E5	
Aroclor 1254 {3}	MULTI	Average RF	% RSD	5.9	20	9.19E5	
Aroclor 1254 {4}	MULTI	Average RF	% RSD	5.1	20	9.845E5	
Aroclor 1254 {5}	MULTI	Average RF	% RSD	4.8	20	4.839E5	
Aroclor 1260 {1}	MULTI	Average RF	% RSD	14.2	20	1.193E6	
Aroclor 1260 {2}	MULTI	Average RF	% RSD	10.7	20	7.275E5	
Aroclor 1260 {3}	MULTI	Average RF	% RSD	9.2	20	1.737E6	
Aroclor 1260 {4}	MULTI	Average RF	% RSD	9.6	20	9.692E5	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1260 {5}	MULTI	Average RF	% RSD	9.1	20	6.078E5	
Decachlorobiphenyl	SURR	Average RF	% RSD	11.5	20	1.642E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	6.2	20	1.896E7	



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800011-01	ar1660l	I:\ACQUDATA\6890D\DATA\011018\GA325.D	01/10/2018 08:32
02	RC1800011-02	ar1660l	I:\ACQUDATA\6890D\DATA\011018\GA326.D	01/10/2018 08:52
03	RC1800011-03	ar1660ml	I:\ACQUDATA\6890D\DATA\011018\GA327.D	01/10/2018 09:11
04	RC1800011-04	ar1660m	I:\ACQUDATA\6890D\DATA\011018\GA328.D	01/10/2018 09:31
05	RC1800011-05	ar1660h	I:\ACQUDATA\6890D\DATA\011018\GA329.D	01/10/2018 09:51
06	RC1800011-06	ar1660mh	I:\ACQUDATA\6890D\DATA\011018\GA330.D	01/10/2018 10:11
07	RC1800011-07	ar1221/1254 l	I:\ACQUDATA\6890D\DATA\011018\GA331.D	01/10/2018 10:30
08	RC1800011-08	ar1221/1254 ml	I:\ACQUDATA\6890D\DATA\011018\GA332.D	01/10/2018 10:50
09	RC1800011-09	ar1221/1254 m	I:\ACQUDATA\6890D\DATA\011018\GA333.D	01/10/2018 11:09
10	RC1800011-10	ar1221/1254 mh	I:\ACQUDATA\6890D\DATA\011018\GA334.D	01/10/2018 11:29
11	RC1800011-11	ar1221/1254 h	I:\ACQUDATA\6890D\DATA\011018\GA335.D	01/10/2018 11:50
12	RC1800011-12	ar1232 l	I:\ACQUDATA\6890D\DATA\011018\GA336.D	01/10/2018 12:09
13	RC1800011-13	ar1232 ml	I:\ACQUDATA\6890D\DATA\011018\GA337.D	01/10/2018 12:29
14	RC1800011-14	ar1232 m	I:\ACQUDATA\6890D\DATA\011018\GA338.D	01/10/2018 12:49
15	RC1800011-15	ar1232 mh	I:\ACQUDATA\6890D\DATA\011018\GA339.D	01/10/2018 13:08
16	RC1800011-16	ar1232 h	I:\ACQUDATA\6890D\DATA\011018\GA340.D	01/10/2018 13:28
17	RC1800011-17	ar1242/68 l	I:\ACQUDATA\6890D\DATA\011018\GA341.D	01/10/2018 13:47
18	RC1800011-18	ar1242/68 ml	I:\ACQUDATA\6890D\DATA\011018\GA342.D	01/10/2018 14:07
19	RC1800011-19	ar1242/68 m	I:\ACQUDATA\6890D\DATA\011018\GA343.D	01/10/2018 14:27
20	RC1800011-20	ar1242/68 mh	I:\ACQUDATA\6890D\DATA\011018\GA344.D	01/10/2018 14:46
21	RC1800011-21	ar1242/68 h	I:\ACQUDATA\6890D\DATA\011018\GA345.D	01/10/2018 15:06
22	RC1800011-22	ar1248 l	I:\ACQUDATA\6890D\DATA\011018\GA346.D	01/10/2018 15:26
23	RC1800011-23	ar1248 ml	I:\ACQUDATA\6890D\DATA\011018\GA347.D	01/10/2018 15:45
24	RC1800011-24	ar1248 m	I:\ACQUDATA\6890D\DATA\011018\GA348.D	01/10/2018 16:05
25	RC1800011-25	ar1248 mh	I:\ACQUDATA\6890D\DATA\011018\GA349.D	01/10/2018 16:24
26	RC1800011-26	ar1248 h	I:\ACQUDATA\6890D\DATA\011018\GA350.D	01/10/2018 16:44
27	RC1800011-27	ar1262 m	I:\ACQUDATA\6890D\DATA\011018\GA351.D	01/10/2018 17:04

**Analyte**

**Aroclor 1016 {1}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	4.695E5	02	100.000	5.427E5	03	250.000	4.821E5	04	500.000	4.909E5
06	750.000	4.246E5	05	1000.000	4.413E5						

**Aroclor 1016 {2}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.138E6	02	100.000	1.102E6	03	250.000	9.636E5	04	500.000	9.451E5
06	750.000	8.157E5	05	1000.000	8.702E5						

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1016 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	2.791E5	02	100.000	3.035E5	03	250.000	2.724E5	04	500.000	2.781E5
06	750.000	2.426E5	05	1000.000	2.645E5						

Aroclor 1016 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	4.471E5	02	100.000	4.667E5	03	250.000	4.133E5	04	500.000	4.092E5
06	750.000	3.534E5	05	1000.000	3.795E5						

Aroclor 1016 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.073E6	02	100.000	9.25E5	03	250.000	9.075E5	04	500.000	9.006E5
06	750.000	7.728E5	05	1000.000	8.327E5						

Aroclor 1221 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	2.098E5	08	250.000	1.962E5	09	500.000	1.981E5	10	750.000	1.956E5
11	1000.000	1.876E5									

Aroclor 1221 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	2.833E5	08	250.000	2.851E5	09	500.000	2.866E5	10	750.000	2.922E5
11	1000.000	2.827E5									

Aroclor 1221 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	1.555E5	08	250.000	1.568E5	09	500.000	1.615E5	10	750.000	1.655E5
11	1000.000	1.611E5									

Aroclor 1221 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	7.289E5	08	250.000	7.253E5	09	500.000	7.289E5	10	750.000	7.335E5
11	1000.000	7.039E5									

Aroclor 1221 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	200.000	9.478E4	08	250.000	9.626E4	09	500.000	1.022E5	10	750.000	9.91E4
11	1000.000	9.731E4									

Aroclor 1232 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	7.266E5	13	250.000	6.768E5	14	500.000	6.962E5	15	750.000	6.47E5
16	1000.000	6.239E5									

Aroclor 1232 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	5.616E5	13	250.000	5.002E5	14	500.000	5.207E5	15	750.000	4.889E5
16	1000.000	4.73E5									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1232 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	1.092E6	13	250.000	9.859E5	14	500.000	1.039E6	15	750.000	9.864E5
16	1000.000	9.615E5									

Aroclor 1232 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	5.389E5	13	250.000	4.704E5	14	500.000	4.832E5	15	750.000	4.508E5
16	1000.000	4.339E5									

Aroclor 1232 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
12	100.000	4.343E5	13	250.000	3.93E5	14	500.000	4.108E5	15	750.000	3.87E5
16	1000.000	3.757E5									

Aroclor 1242 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	3.8E5	18	250.000	4.062E5	19	500.000	4.123E5	20	750.000	4.019E5
21	1000.000	4.049E5									

Aroclor 1242 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	3.366E5	18	250.000	3.452E5	19	500.000	3.401E5	20	750.000	3.318E5
21	1000.000	3.352E5									

Aroclor 1242 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	1.561E6	18	250.000	1.618E6	19	500.000	1.62E6	20	750.000	1.59E6
21	1000.000	1.636E6									

Aroclor 1242 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	7.143E5	18	250.000	7.266E5	19	500.000	7.194E5	20	750.000	7.111E5
21	1000.000	7.262E5									

Aroclor 1242 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
17	100.000	6.5E5	18	250.000	6.707E5	19	500.000	6.757E5	20	750.000	6.721E5
21	1000.000	6.936E5									

Aroclor 1248 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	4.58E5	23	250.000	4.221E5	24	500.000	4.165E5	25	750.000	4.17E5
26	1000.000	4.102E5									

Aroclor 1248 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	1.097E6	23	250.000	1.015E6	24	500.000	1.025E6	25	750.000	1.046E6
26	1000.000	1.04E6									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte

Aroclor 1248 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	3.982E5	23	250.000	3.617E5	24	500.000	3.569E5	25	750.000	3.594E5
26	1000.000	3.552E5									

Aroclor 1248 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	1.195E6	23	250.000	1.097E6	24	500.000	1.099E6	25	750.000	1.111E6
26	1000.000	1.098E6									

Aroclor 1248 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
22	100.000	9.811E5	23	250.000	9.135E5	24	500.000	9.281E5	25	750.000	9.447E5
26	1000.000	9.38E5									

Aroclor 1254 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	5.13E5	08	250.000	4.688E5	09	500.000	5.022E5	10	750.000	4.926E5
11	1000.000	4.771E5									

Aroclor 1254 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	8.013E5	08	250.000	7.174E5	09	500.000	7.761E5	10	750.000	7.702E5
11	1000.000	7.522E5									

Aroclor 1254 {3}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	1.823E6	08	250.000	1.544E6	09	500.000	1.661E6	10	750.000	1.645E6
11	1000.000	1.596E6									

Aroclor 1254 {4}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	9.397E5	08	250.000	8.364E5	09	500.000	8.853E5	10	750.000	8.675E5
11	1000.000	8.395E5									

Aroclor 1254 {5}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	100.000	4.401E5	08	250.000	4.045E5	09	500.000	4.434E5	10	750.000	4.3E5
11	1000.000	4.183E5									

Aroclor 1260 {1}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.503E6	02	100.000	1.46E6	03	250.000	1.252E6	04	500.000	1.229E6
06	750.000	1.065E6	05	1000.000	1.159E6						

Aroclor 1260 {2}

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.934E6	02	100.000	1.815E6	03	250.000	1.533E6	04	500.000	1.497E6
06	750.000	1.3E6	05	1000.000	1.416E6						

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

**Analyte**

**Aroclor 1260 {3}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	1.213E6	02	100.000	1.25E6	03	250.000	1.1E6	04	500.000	1.095E6
06	750.000	9.57E5	05	1000.000	1.054E6						

**Aroclor 1260 {4}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	2.292E6	02	100.000	2.24E6	03	250.000	2.024E6	04	500.000	2.059E6
06	750.000	1.815E6	05	1000.000	2.01E6						

**Aroclor 1260 {5}**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	20.000	5.445E5	02	100.000	5.412E5	03	250.000	5.002E5	04	500.000	5.007E5
06	750.000	4.444E5	05	1000.000	4.921E5						

**Decachlorobiphenyl**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.378E7	02	20.000	2.114E7	03	40.000	2.011E7	04	60.000	1.962E7
06	80.000	1.776E7	05	100.000	1.968E7						

**Tetrachloro-m-xylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.000	2.617E7	02	20.000	2.616E7	03	40.000	2.538E7	04	60.000	2.577E7
06	80.000	2.277E7	05	100.000	2.497E7						

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801453  
Calibration Date: 1/10/2018

Initial Calibration Summary  
Polychlorinated Biphenyls (PCBs) by GC

Calibration ID: RC1800011  
Instrument ID: R-GC-54

Signal ID: DB-1701

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1016 {1}	MULTI	Average RF	% RSD	8.7	20	4.752E5	
Aroclor 1016 {2}	MULTI	Average RF	% RSD	13.0	20	9.725E5	
Aroclor 1016 {3}	MULTI	Average RF	% RSD	7.3	20	2.734E5	
Aroclor 1016 {4}	MULTI	Average RF	% RSD	10.2	20	4.115E5	
Aroclor 1016 {5}	MULTI	Average RF	% RSD	11.2	20	9.02E5	
Aroclor 1221 {1}	MULTI	Average RF	% RSD	4.1	20	1.975E5	
Aroclor 1221 {2}	MULTI	Average RF	% RSD	1.3	20	2.86E5	
Aroclor 1221 {3}	MULTI	Average RF	% RSD	2.5	20	1.601E5	
Aroclor 1221 {4}	MULTI	Average RF	% RSD	1.6	20	7.241E5	
Aroclor 1221 {5}	MULTI	Average RF	% RSD	2.9	20	9.792E4	
Aroclor 1232 {1}	MULTI	Average RF	% RSD	6.0	20	6.741E5	
Aroclor 1232 {2}	MULTI	Average RF	% RSD	6.7	20	5.089E5	
Aroclor 1232 {3}	MULTI	Average RF	% RSD	5.2	20	1.013E6	
Aroclor 1232 {4}	MULTI	Average RF	% RSD	8.4	20	4.754E5	
Aroclor 1232 {5}	MULTI	Average RF	% RSD	5.7	20	4.002E5	
Aroclor 1242 {1}	MULTI	Average RF	% RSD	3.1	20	4.011E5	
Aroclor 1242 {2}	MULTI	Average RF	% RSD	1.5	20	3.378E5	
Aroclor 1242 {3}	MULTI	Average RF	% RSD	1.9	20	1.605E6	
Aroclor 1242 {4}	MULTI	Average RF	% RSD	1.0	20	7.195E5	
Aroclor 1242 {5}	MULTI	Average RF	% RSD	2.3	20	6.724E5	
Aroclor 1248 {1}	MULTI	Average RF	% RSD	4.5	20	4.248E5	
Aroclor 1248 {2}	MULTI	Average RF	% RSD	3.0	20	1.044E6	
Aroclor 1248 {3}	MULTI	Average RF	% RSD	4.9	20	3.663E5	
Aroclor 1248 {4}	MULTI	Average RF	% RSD	3.8	20	1.12E6	
Aroclor 1248 {5}	MULTI	Average RF	% RSD	2.7	20	9.411E5	
Aroclor 1254 {1}	MULTI	Average RF	% RSD	3.7	20	4.907E5	
Aroclor 1254 {2}	MULTI	Average RF	% RSD	4.1	20	7.635E5	
Aroclor 1254 {3}	MULTI	Average RF	% RSD	6.3	20	1.654E6	
Aroclor 1254 {4}	MULTI	Average RF	% RSD	4.8	20	8.737E5	
Aroclor 1254 {5}	MULTI	Average RF	% RSD	3.8	20	4.273E5	
Aroclor 1260 {1}	MULTI	Average RF	% RSD	13.4	20	1.278E6	
Aroclor 1260 {2}	MULTI	Average RF	% RSD	15.4	20	1.583E6	
Aroclor 1260 {3}	MULTI	Average RF	% RSD	9.6	20	1.112E6	
Aroclor 1260 {4}	MULTI	Average RF	% RSD	8.3	20	2.073E6	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Aroclor 1260 {5}	MULTI	Average RF	% RSD	7.3	20	5.038E5	
Decachlorobiphenyl	SURR	Average RF	% RSD	9.9	20	2.035E7	
Tetrachloro-m-xylene	SURR	Average RF	% RSD	5.1	20	2.52E7	

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Verification Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-1701

#	Lab Code	Sample Name	File Location	Acquisition Date
28	RC1800011-28	ar1660 icv	I:\ACQDATA\6890D\DATA\011018\GA352.D	01/10/2018 17:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1016	500	516			3.13	±30	NA
Aroclor 1260	500	476			-4.893	±30	NA
Aroclor 1016 {1}	500	505	4.752E5	4.798E5	0.959	±30	Average RF
Aroclor 1016 {2}	500	502	9.725E5	9.77E5	0.465	±30	Average RF
Aroclor 1016 {3}	500	523	2.734E5	2.857E5	4.52	±30	Average RF
Aroclor 1016 {4}	500	521	4.115E5	4.284E5	4.11	±30	Average RF
Aroclor 1016 {5}	500	528	9.02E5	9.524E5	5.59	±30	Average RF
Aroclor 1260 {1}	500	456	1.278E6	1.166E6	-8.749	±30	Average RF
Aroclor 1260 {2}	500	444	1.583E6	1.407E6	-11.108	±30	Average RF
Aroclor 1260 {3}	500	474	1.112E6	1.054E6	-5.177	±30	Average RF
Aroclor 1260 {4}	500	488	2.073E6	2.024E6	-2.398	±30	Average RF
Aroclor 1260 {5}	500	515	5.038E5	5.188E5	2.97	±30	Average RF



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801453  
**Calibration Date:** 1/10/2018

**Initial Calibration Verification Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Calibration ID:** RC1800011  
**Instrument ID:** R-GC-54

**Signal ID:** DB-17

#	Lab Code	Sample Name	File Location	Acquisition Date
28	RC1800011-28	ar1660 icv	I:\ACQDATA\6890D\DATA\011018\GA352.D	01/10/2018 17:23

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Aroclor 1016	500	486			-2.823	±30	NA
Aroclor 1260	500	480			-4.022	±30	NA
Aroclor 1016 {1}	500	476	3.29E5	3.132E5	-4.814	±30	Average RF
Aroclor 1016 {2}	500	496	7.604E5	7.546E5	-0.758	±30	Average RF
Aroclor 1016 {3}	500	483	4.75E5	4.59E5	-3.360	±30	Average RF
Aroclor 1016 {4}	500	508	3.232E5	3.285E5	1.65	±30	Average RF
Aroclor 1016 {5}	500	466	5.508E5	5.131E5	-6.838	±30	Average RF
Aroclor 1260 {1}	500	448	1.193E6	1.069E6	-10.337	±30	Average RF
Aroclor 1260 {2}	500	488	7.275E5	7.098E5	-2.442	±30	Average RF
Aroclor 1260 {3}	500	486	1.737E6	1.688E6	-2.824	±30	Average RF
Aroclor 1260 {4}	500	475	9.692E5	9.21E5	-4.983	±30	Average RF
Aroclor 1260 {5}	500	502	6.078E5	6.107E5	0.477	±30	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/26/18 16:55

**Continuing Calibration Verification (CCV) Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUADATA\6890D\DATA\022618\GA852.D\  
**Signal ID:** DB-17

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581722  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016	500	500	NA	NA	NA	NA	±20	
Aroclor 1260	500	491	NA	NA	NA	NA	±20	
Tetrachloro-m-xylene	60.0	60.9	2.52E7	2.556E7	1.4	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/26/18 16:55

**Continuing Calibration Verification (CCV) Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUADATA\6890D\DATA\022618\GA852.D\  
**Signal ID:** DB-17

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581722  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016 {1}	500	483	3.29E5	3.182E5	-3.3	NA	±20	Average RF
Aroclor 1016 {2}	500	481	7.604E5	7.322E5	-3.7	NA	±20	Average RF
Aroclor 1016 {3}	500	449	4.75E5	4.263E5	-10.3	NA	±20	Average RF
Aroclor 1016 {4}	500	481	3.232E5	3.108E5	-3.8	NA	±20	Average RF
Aroclor 1016 {5}	500	476	5.508E5	5.24E5	-4.9	NA	±20	Average RF
Aroclor 1260 {1}	500	473	1.193E6	1.129E6	-5.4	NA	±20	Average RF
Aroclor 1260 {2}	500	475	7.275E5	6.917E5	-4.9	NA	±20	Average RF
Aroclor 1260 {3}	500	496	1.737E6	1.724E6	-0.7	NA	±20	Average RF
Aroclor 1260 {4}	500	487	9.692E5	9.449E5	-2.5	NA	±20	Average RF
Aroclor 1260 {5}	500	490	6.078E5	5.955E5	-2.0	NA	±20	Average RF
Decachlorobiphenyl	60.0	57.2	1.642E7	1.566E7	-4.6	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/26/18 19:12

**Continuing Calibration Verification (CCV) Summary  
Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUADATA\6890D\DATA\022618\GA859.D\  
**Signal ID:** DB-17

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581722  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016	500	465	NA	NA	NA	NA	±20	
Aroclor 1260	500	452	NA	NA	NA	NA	±20	
Tetrachloro-m-xylene	60.0	57.6	2.52E7	2.42E7	-4.0	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801453  
**Date Analyzed:** 02/26/18 19:12

**Continuing Calibration Verification (CCV) Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**File ID:** I:\ACQUADATA\6890D\DATA\022618\GA859.D\  
**Signal ID:** DB-17

**Calibration Date:** 1/10/2018  
**Calibration ID:** RC1800011  
**Analysis Lot:** 581722  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Aroclor 1016 {1}	500	451	3.29E5	2.967E5	-9.8	NA	±20	Average RF
Aroclor 1016 {2}	500	442	7.604E5	6.725E5	-11.6	NA	±20	Average RF
Aroclor 1016 {3}	500	418	4.75E5	3.974E5	-16.3	NA	±20	Average RF
Aroclor 1016 {4}	500	437	3.232E5	2.827E5	-12.5	NA	±20	Average RF
Aroclor 1016 {5}	500	429	5.508E5	4.727E5	-14.2	NA	±20	Average RF
Aroclor 1260 {1}	500	417	1.193E6	9.949E5	-16.6	NA	±20	Average RF
Aroclor 1260 {2}	500	418	7.275E5	6.08E5	-16.4	NA	±20	Average RF
Aroclor 1260 {3}	500	437	1.737E6	1.517E6	-12.6	NA	±20	Average RF
Aroclor 1260 {4}	500	427	9.692E5	8.286E5	-14.5	NA	±20	Average RF
Aroclor 1260 {5}	500	430	6.078E5	5.231E5	-13.9	NA	±20	Average RF
Decachlorobiphenyl	60.0	50.8	1.642E7	1.389E7	-15.4	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801453

**Analysis Run Log**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:**

**Analysis Lot:**581722  
**Instrument ID:**R-GC-54

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQU\DATA\6890D\DATA\022618\GA843.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	13:21:00	
I:\ACQU\DATA\6890D\DATA\022618\GA844.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	14:18:00	
I:\ACQU\DATA\6890D\DATA\022618\GA845.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	14:37:00	
I:\ACQU\DATA\6890D\DATA\022618\GA846.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	14:57:00	
I:\ACQU\DATA\6890D\DATA\022618\GA847.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	15:16:00	
I:\ACQU\DATA\6890D\DATA\022618\GA848.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	15:36:00	
I:\ACQU\DATA\6890D\DATA\022618\GA849.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	15:56:00	
I:\ACQU\DATA\6890D\DATA\022618\GA850.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	16:15:00	
I:\ACQU\DATA\6890D\DATA\022618\GA851.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	16:35:00	
I:\ACQU\DATA\6890D\DATA\022618\GA852.D\	Continuing Calibration Verification	RQ1801756-03	2/26/2018	16:55:00	
I:\ACQU\DATA\6890D\DATA\022618\GA852.D\	ZZZZZZZ	ZZZZZZZ	2/26/2018	16:55:00	
I:\ACQU\DATA\6890D\DATA\022618\GA853.D\	TP-22 (4.0-5.0)	R1801453-019	2/26/2018	17:14:00	
I:\ACQU\DATA\6890D\DATA\022618\GA854.D\	TP-22 (4.0-5.0) MS	RQ1801536-06	2/26/2018	17:34:00	
I:\ACQU\DATA\6890D\DATA\022618\GA855.D\	TP-22 (4.0-5.0) DMS	RQ1801536-07	2/26/2018	17:54:00	
I:\ACQU\DATA\6890D\DATA\022618\GA856.D\	Method Blank	RQ1801536-01	2/26/2018	18:13:00	
I:\ACQU\DATA\6890D\DATA\022618\GA857.D\	Lab Control Sample	RQ1801536-02	2/26/2018	18:33:00	
I:\ACQU\DATA\6890D\DATA\022618\GA858.D\	Duplicate Lab Control Sample	RQ1801536-03	2/26/2018	18:53:00	
I:\ACQU\DATA\6890D\DATA\022618\GA859.D\	Continuing Calibration Verification	RQ1801756-04	2/26/2018	19:12:00	

Analysis: 8082 Analyst: MPelaw Run Method: \_\_\_\_\_  
 Date: 2/26/18 Instr. 6890D R-GC-54 Quant Method: PCB1108.m  
 Syringes: \_\_\_\_\_ LIMS Run#: 581722

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BK			6A811		
	↓			842		
	CLV60		185173	843	Y	
	RD180160-01			844	Y	
	02			845	Y	
	03			846	Y	
	R1806700-001			847	Y	
	R1801572-001			848	Y	
	RD1801651-01			849	Y	
	↓ 02			850	Y	
	↓ 03			851	Y	
	CLV61		185173	852	Y	
	R180453-019			853	Y	
	RD1801536-04			854	Y	
	07			855	Y	
	RD1801536-01			856	Y	
	↓ 02			857	Y	
	↓ 03			858	Y	
	CLV62		185173	859	Y	

MP  
2/27/18

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Analysis: 6081082 Analyst: ATRELO Run Method: \_\_\_\_\_  
 Date: 1/10/18 Instr. 6890D R-GC-54 Quant Method: PC3011018.m  
 Syringes: \_\_\_\_\_ LIMS Run#: \_\_\_\_\_

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
	BK			GA323		
	↓			324		
	AR1100LL		186515	325	Y	
	↓ L		186513	326	Y	
	ML		186512	327	Y	
	M		185173	328	Y	
	MH		180511	329	Y	
	↓ H		186510	330	Y	
	AR1221/1234 L		186516	331	Y	
	↓ ML		187094	332	Y	
	M		186517	333	Y	
	MH		187055	334	Y	
	↓ H		186518	335	Y	
	AR1232 L		186549	336	Y	
	↓ ML		187057	337	Y	
	M		186550	338	Y	
	MH		187058	339	Y	
	↓ H		186551	340	Y	
	AR1242/1268 L		187061	341	Y	
	↓ ML		187059	342	Y	
	M		187063	343	Y	
	MH		187064	344	Y	
	↓ H		187065	345	Y	
	AR1248 L		187067	346	Y	
	ML		187068	347	Y	
	M		187069	348	Y	
	MH		187070	349	Y	
	H		187071	350	Y	
	AR1242 M		187072	351	Y	
	AR1100 Inv		187087	352	Y	

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Runlog GCEXT r2 4/27/17

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Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1801453

Polychlorinated Biphenyls (PCBs) by GC

**Prep Method:** EPA 3541  
**Analytical Method:** 8082A

**Extraction Lot:**308673

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
TP-22 (4.0-5.0)	R1801453-019	2/16/18	2/19/18	30.2300 g	10 mL	81.1
Method Blank	RQ1801536-01MB	NA	NA	30.0 g	10 mL	
Lab Control Sample	RQ1801536-02LCS	NA	NA	30.0 g	10 mL	
Duplicate Lab Control Sample	RQ1801536-03DLCS	NA	NA	30.0 g	10 mL	
Matrix Spike	RQ1801536-06MS	2/16/18	2/19/18	30.1100 g	10 mL	81.1
Duplicate Matrix Spike	RQ1801536-07DMS	2/16/18	2/19/18	30.0700 g	10 mL	81.1

# Preparation Information Benchsheet

Prep Run#: 308673  
 Team: Semiova GC/DMURPHY

Prep WorkFlow: OrgExtS(14)  
 Prep Method: EPA 3541

Status: Prepped  
 Prep Date/Time: 2/21/18 07:33 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801536-01	MB		30.0g	8081B/Pest OC				10.00mL	sand	1.0000 mL/187936	
2	RQ1801536-01	MB		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/187936	
3	RQ1801536-02	LCS		30.0g	8081B/Pest OC				10.00mL	sand	1.0000 mL/186812; 1.0000 mL/187936	
4	RQ1801536-02	LCS		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/186813; 1.0000 mL/187936	
5	RQ1801536-03	DLCS		30.0g	8081B/Pest OC				10.00mL	sand	1.0000 mL/186812; 1.0000 mL/187936	
6	RQ1801536-03	DLCS		30.0g	8082A/PCB				10.00mL	sand	1.0000 mL/186813; 1.0000 mL/187936	
7	R1801452-001	SB-1 (0-0.25)	.02	30.1200g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
8	R1801452-002	SB-1 (1.75-2.25)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
9	R1801452-003	SB-2 (0-0.25)	.02	30.1900g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
10	R1801452-004	SB-2 (2.2-2.7)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
11	R1801452-005	SB-3 (0-0.25)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
12	R1801452-006	SB-3 (2.0-2.5)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
13	R1801452-007	SB-4 (0-0.25)	.02	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
14	R1801452-008	SB-4 (1-2)	.02	30.1400g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
15	R1801453-004	TP-04 (6.0-7.0)	.01	30.2000g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
16	RQ1801536-04	R1801453-004 MS	.01	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
17	RQ1801536-05	R1801453-004 DMS	.01	30.1300g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936; 1.0000 mL/186812	
18	R1801453-012	TP-12 (5.0)	.05	30.0g	8081B/Pest OC				10.00mL	brown-medium	1.0000 mL/187936	
19	R1801453-019	TP-22 (4.0-5.0)	.05	30.2300g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936; 1.0000 mL/186812	
20	RQ1801536-06	R1801453-019 MS	.05	30.1100g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/186813	
21	RQ1801536-07	R1801453-019 DMS	.05	30.0700g	8082A/PCB				10.00mL	brown-medium	1.0000 mL/187936; 1.0000 mL/186813	

### Spiking Solutions

Name: 608 LCS Spike STD Inventory ID 186812 Logbook Ref: Expires On: 02/28/2018  
 Name: 8082 Spike 5 ug/mL AR 1260 Inventory ID 186813 Logbook Ref: Expires On: 07/01/2018  
 Name: 8081/8082 Surrogate Spike STD 1 ug/mL Inventory ID 187936 Logbook Ref: Expires On: 08/08/2018

### Preparation Materials

50:50 acetone:hexane mix (188019)  
 Florisil Columnn 1g 6mL SPE Columns (184920)  
 Prepared Sodium Sulfate (188011)  
 Na2SO4  
 Boiling Stones PTFE (187987)  
 2mL Graduated Vials (187355)  
 Sand Reagent Grade (187622)  
 Eppendorf Pipette Repeater EXT #18 (184837)  
 Sulfuric Acid Reagent Grade H2SO4 (186036)  
 Tetraabryl/ammonium Hydrogen Sulfate (TBA) (178388)

# Preparation Information Benchsheet

**Prep Run#:** 308673      **Prep WorkFlow:** OrgExIS(14)      **Status:** Prepped  
**Team:** Semivoa GC/DMURPHY      **Prep Method:** EPA 3541      **Prep Date/Time:** 2/21/18 07:33 AM

**Preparation Steps**

Step: Extraction Started: 2/21/18 07:33 Finished: 2/22/18 15:46 By: DMURPHY Comments	Step: Concentration Started: 2/22/18 15:48 Finished: 2/22/18 15:48 By: DMURPHY Comments	Step: Florisil Col Clean-EPA 3621 Started: 2/22/18 15:48 Finished: 2/22/18 15:48 By: DMURPHY Comments
Step: Acid Clean-EPA 3665A Started: 2/22/18 15:49 Finished: 2/22/18 15:49 By: DMURPHY Comments	Step: Sulfur Clean-EPA 3660B Started: 2/22/18 15:49 Finished: 2/22/18 15:49 By: DMURPHY Comments	

Step: Extraction Complete  
 Started: 2/22/18 15:49  
 Finished: 2/22/18 15:49  
 By: DMURPHY  
 Comments

Comments:

Reviewed By: *MSJ*      Date: 2/23/18  
 Spike Witness: MPEDRO      Date: \_\_\_\_\_

Chain of Custody

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Extracts Examined  
 Yes \_\_\_\_\_ No \_\_\_\_\_



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-01 (3.0-4.0)      **Lab Code:** R1801453-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.334	1.0	5.4		
Barium	6010C	2.3	0.084	1.0	46.5		
Cadmium	6010C	0.575	0.019	1.0	1.4		
Mercury	7471B	0.037	0.011	1.0	0.623		
Chromium	6010C	1.2	0.105	1.0	10.7		
Lead	6010C	5.8	0.223	1.0	140		
Selenium	6010C	1.2	0.434	1.0	0.656	J	
Silver	6010C	1.2	0.076	1.0	1.2	U	

% Solids: 85.2

Comments:

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-02 (4.0)      **Lab Code:** R1801453-002

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.3	0.372	1.0	8.6		
Barium	6010C	2.6	0.093	1.0	51.7		
Cadmium	6010C	0.641	0.022	1.0	0.770		
Mercury	7471B	0.418	0.118	10.0	11.8		
Chromium	6010C	1.3	0.117	1.0	9.8		
Lead	6010C	6.4	0.249	1.0	209		
Selenium	6010C	1.3	0.484	1.0	1.6		
Silver	6010C	1.3	0.085	1.0	0.449	J	

% Solids: 77.2

Comments:

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-02 (10.0)      **Lab Code:** R1801453-003

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.337	1.0	3.5		
Barium	6010C	2.3	0.085	1.0	44.4		
Cadmium	6010C	0.581	0.020	1.0	0.755		
Mercury	7471B	0.038	0.011	1.0	0.050		
Chromium	6010C	1.2	0.106	1.0	10.7		
Lead	6010C	5.8	0.225	1.0	9.7		
Selenium	6010C	1.2	0.438	1.0	0.708	J	
Silver	6010C	1.2	0.077	1.0	1.2	U	

% Solids: 82.0

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-05 (6.0)      **Lab Code:** R1801453-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.305	1.0	3.4		
Barium	6010C	2.1	0.077	1.0	25.3		
Cadmium	6010C	0.527	0.018	1.0	0.232	J	
Mercury	7471B	0.035	0.010	1.0	0.035	U	
Chromium	6010C	1.1	0.096	1.0	5.7		
Lead	6010C	5.3	0.204	1.0	6.8		
Selenium	6010C	1.1	0.397	1.0	1.1	U	
Silver	6010C	1.1	0.070	1.0	1.1	U	

% Solids: 94.0

Comments:



METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/15/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-06 (5.5)      Lab Code: R1801453-006

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.327	1.0	4.6		
Barium	6010C	2.3	0.082	1.0	72.4		
Cadmium	6010C	0.564	0.019	1.0	0.474	J	
Mercury	7471B	0.038	0.011	1.0	0.649		
Chromium	6010C	1.1	0.103	1.0	9.4		
Lead	6010C	5.6	0.219	1.0	86.4		
Selenium	6010C	1.1	0.425	1.0	1.1	U	
Silver	6010C	1.1	0.074	1.0	0.124	J	

% Solids: 84.4

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/15/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-06 (9.0)      Lab Code: R1801453-007

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.356	1.0	4.3		
Barium	6010C	2.5	0.090	1.0	48.3		
Cadmium	6010C	0.614	0.021	1.0	0.701		
Mercury	7471B	0.042	0.012	1.0	0.215		
Chromium	6010C	1.2	0.112	1.0	12.7		
Lead	6010C	6.1	0.238	1.0	32.9		
Selenium	6010C	1.2	0.463	1.0	0.602	J	
Silver	6010C	1.2	0.081	1.0	1.2	U	

% Solids: 79.0

Comments:

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-07 (4.0)      **Lab Code:** R1801453-008

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.343	1.0	5.5		
Barium	6010C	2.4	0.086	1.0	103		
Cadmium	6010C	0.591	0.020	1.0	0.402	J	
Mercury	7471B	0.040	0.011	1.0	0.038	J	
Chromium	6010C	1.2	0.108	1.0	19.8		
Lead	6010C	5.9	0.229	1.0	23.5		
Selenium	6010C	1.2	0.446	1.0	0.473	J	
Silver	6010C	1.2	0.078	1.0	1.2	U	

% Solids: 82.9

Comments:

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-08 (5.5)      **Lab Code:** R1801453-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.321	1.0	3.9		
Barium	6010C	2.2	0.081	1.0	53.6		
Cadmium	6010C	0.553	0.019	1.0	0.376	J	
Mercury	7471B	0.036	0.010	1.0	0.111		
Chromium	6010C	1.1	0.101	1.0	9.4		
Lead	6010C	5.5	0.214	1.0	196		
Selenium	6010C	1.1	0.417	1.0	0.475	J	
Silver	6010C	1.1	0.073	1.0	0.099	J	

% Solids: 88.7

Comments:

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-09 (7.0)      **Lab Code:** R1801453-010

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.338	1.0	4.1		
Barium	6010C	2.3	0.085	1.0	156		
Cadmium	6010C	0.583	0.020	1.0	0.443	J	
Mercury	7471B	0.036	0.010	1.0	0.382		
Chromium	6010C	1.2	0.106	1.0	9.0		
Lead	6010C	5.8	0.226	1.0	93.1		
Selenium	6010C	1.2	0.439	1.0	1.2	U	
Silver	6010C	1.2	0.077	1.0	0.117	J	

% Solids: 85.8

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/15/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-10 (5.0)      Lab Code: R1801453-011

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.338	1.0	10.7		
Barium	6010C	2.3	0.085	1.0	274		
Cadmium	6010C	0.583	0.020	1.0	0.723		
Mercury	7471B	0.039	0.011	1.0	0.447		
Chromium	6010C	1.2	0.106	1.0	9.8		
Lead	6010C	5.8	0.226	1.0	554		
Selenium	6010C	1.2	0.439	1.0	1.2	U	
Silver	6010C	1.2	0.077	1.0	0.221	J	

% Solids: 83.3

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-12 (5.0)      **Lab Code:** R1801453-012

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.347	1.0	6.5		
Barium	6010C	2.4	0.087	1.0	58.0		
Cadmium	6010C	0.599	0.020	1.0	0.395	J	
Mercury	7471B	0.039	0.011	1.0	0.517		
Chromium	6010C	1.2	0.109	1.0	10.8		
Lead	6010C	6.0	0.232	1.0	66.3		
Selenium	6010C	1.2	0.451	1.0	1.2	U	
Silver	6010C	1.2	0.079	1.0	0.359	J	

% Solids: 81.1

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-13 (1.0-2.0)      **Lab Code:** R1801453-013

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.4	0.413	1.0	31.4		
Barium	6010C	2.9	0.104	1.0	61.7		
Cadmium	6010C	0.712	0.024	1.0	7.5		
Mercury	7471B	0.046	0.013	1.0	0.096		
Chromium	6010C	1.4	0.130	1.0	101		
Lead	6010C	7.1	0.276	1.0	267		
Selenium	6010C	1.4	0.537	1.0	2.7		
Silver	6010C	1.4	0.094	1.0	0.242	J	

% Solids: 68.8

Comments:



**METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-13 (7.0)      **Lab Code:** R1801453-014

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.320	1.0	2.5		
Barium	6010C	2.2	0.080	1.0	28.3		
Cadmium	6010C	0.552	0.019	1.0	0.243	J	
Mercury	7471B	0.038	0.011	1.0	0.038	U	
Chromium	6010C	1.1	0.101	1.0	6.7		
Lead	6010C	5.5	0.214	1.0	4.7	J	
Selenium	6010C	1.1	0.416	1.0	1.1	U	
Silver	6010C	1.1	0.073	1.0	1.1	U	

**% Solids:** 87.1

**Comments:**

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-14 (3.5)      **Lab Code:** R1801453-015

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.3	0.379	1.0	7.5		
Barium	6010C	2.6	0.095	1.0	136		
Cadmium	6010C	0.653	0.022	1.0	0.927		
Mercury	7471B	0.218	0.062	5.0	2.5		
Chromium	6010C	1.3	0.119	1.0	21.1		
Lead	6010C	6.5	0.253	1.0	651		
Selenium	6010C	1.3	0.492	1.0	1.3	J	
Silver	6010C	1.3	0.086	1.0	0.418	J	

% Solids: 76.6

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-17 (4.0)      **Lab Code:** R1801453-016

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.328	1.0	6.2		
Barium	6010C	2.3	0.082	1.0	58.2		
Cadmium	6010C	0.565	0.019	1.0	0.429	J	
Mercury	7471B	0.035	0.010	1.0	0.129		
Chromium	6010C	1.1	0.103	1.0	9.8		
Lead	6010C	5.7	0.219	1.0	85.8		
Selenium	6010C	1.1	0.426	1.0	1.1	U	
Silver	6010C	1.1	0.075	1.0	0.237	J	

% Solids: 86.8

Comments:

METALS  
- 1 -  
INORGANIC ANALYSIS DATA PACKAGE

Client: Day Environmental, Incorporated      Service Request: TP-01 (3.0-4.0)  
Project No.: R1801453      Date Collected: 2/16/2018  
Project Name:      Date Received: 2/19/2018  
Matrix: SOIL      Units: mg/Kg  
Basis:

Sample Name: TP-19 (3.0-4.0)      Lab Code: R1801453-017

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.328	1.0	5.2		
Barium	6010C	2.3	0.082	1.0	60.7		
Cadmium	6010C	0.566	0.019	1.0	0.339	J	
Mercury	7471B	0.039	0.011	1.0	0.103		
Chromium	6010C	1.1	0.103	1.0	9.4		
Lead	6010C	5.7	0.220	1.0	67.4		
Selenium	6010C	1.1	0.427	1.0	1.1	U	
Silver	6010C	1.1	0.075	1.0	1.1	U	

% Solids: 85.8

Comments:

**METALS**  
- 1 -  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-20 (9.0)      **Lab Code:** R1801453-018

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.3	0.384	1.0	9.1		
Barium	6010C	2.7	0.096	1.0	68.5		
Cadmium	6010C	0.661	0.022	1.0	1.0		
Mercury	7471B	0.043	0.012	1.0	1.5		
Chromium	6010C	1.3	0.121	1.0	12.2		
Lead	6010C	6.6	0.257	1.0	563		
Selenium	6010C	1.3	0.499	1.0	0.979	J	
Silver	6010C	1.3	0.087	1.0	0.159	J	

% Solids: 72.0

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (3.0-4.0)  
**Project No.:** R1801453      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-22 (4.0-5.0)      **Lab Code:** R1801453-019

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.351	1.0	9.8		
Barium	6010C	2.4	0.088	1.0	91.4		
Cadmium	6010C	0.604	0.020	1.0	0.713		
Mercury	7471B	0.038	0.011	1.0	0.397		
Chromium	6010C	1.2	0.110	1.0	12.7		
Lead	6010C	6.0	0.235	1.0	190		
Selenium	6010C	1.2	0.456	1.0	0.846	J	
Silver	6010C	1.2	0.080	1.0	0.121	J	

% Solids: 81.1

Comments:

# Metals Cover Page

Analyst: NM

Date: 2/23/18

Instrument: 1CP6

Data File: 6feb23A

Reviewed By: CK 2/26/18

Entered By: CK 2/26/18

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
581591	AgAsBaCdCrPbSe	308693	6010C		

581592	Tal	308694	6010C		

581593	AgAlAsBaBeCdCoCr CuFeKmgMnNiPb SbSeTLVZnBSr (-CANa)	308802	6010C		R1196-002 → 005 ALL -009, 010 -012, 017, 018 -001, 008, 11, 14 K R1411-001, 002 BK

581596	Tal - CANA	308803	6010C		R1311-018 all R1417-016 AS
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581597	CANA ←	308803	6010C		R1469-001, 003, 004 } ALL -007, 108, 009, 010, 012, 014 → 016 R1485 ALL
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## Package Data:

R1417-016, R1482 (2) only

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

**ICP-6 Run Log**  
Serial number: MY15340001

Analyst: NM

Date: 2/23/18

Data File: 6FEB23A

	Prep Date	Lot #		Prep Date	Lot #
IMRL	1/22/18	M7620094C	Cal Std 1	2/20/18	M7620014D
IICSA	1/30/17	M7620109C	Cal Std 2	2/19/18	M7620024J
IICSAB	1/29/18	M7620116E	Cal Std 5/ HLCCV1	2/23/18	M7620035N
Int. Std	2/20/18	M7620126K	ICV/CCV	2/23/18	M7620054S
LCIIS	2/12/18	M7620087A	HLCCV2	2/12/18	M7620074F

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
	M7600003T	M7600004D	M4.M25	-	-

0	PBS-308693	1:33	PBS-308694	2:2	PBW-308802
0	LCSS-308693	1:34	LCSS-308694	2:3	LCSW-308802
1	R1801453-001	1:35	R1801417-004	2:4	R1801196-001
2	R1801453-002	1:36	R1801417-004S	2:5	R1801196-001S
3	R1801453-003	1:37	R1801417-004SD	2:6	R1801196-001SD
4	R1801453-003S	1:38	R1801417-004A	2:7	R1801196-001A
15	R1801453-003SD	1:39	R1801417-004L	2:8	R1801196-001L
16	R1801453-003A	1:40	R1801417-006	2:9	R1801196-002
17	R1801453-003L	1:41	R1801417-008	2:10	R1801196-003
18	R1801453-005	1:42	R1801417-010	2:11	R1801196-004
16	Continuing Calibration Verification	S1:6	Continuing Calibration Verification	S1:8	Continuing Calibration Verification 1
17	Continuing Calibration Blank	S1:7	Continuing Calibration Blank	S1:9	Continuing Calibration Blank 1
19	R1801453-006	1:43	R1801417-013	2:12	R1801196-005
20	R1801453-007	1:44	R1801417-014	2:13	R1801196-006
21	R1801453-008	1:45	R1801417-015	2:14	R1801196-007
22	R1801453-009	1:46	R1801451-002	2:15	R1801196-008
23	R1801453-010	1:47	R1801451-007	2:16	R1801196-009
24	R1801453-011	1:48	R1801486-001	2:17	R1801196-010
25	R1801453-012	1:49	R1801486-002	2:18	R1801196-011
26	R1801453-013	1:50	R1801486-003	2:19	R1801196-012
27	R1801453-014	1:51	R1801417-004 10X	2:20	R1801196-013
28	R1801453-015	1:52	R1801417-004S 10X	2:21	R1801196-014
16	Continuing Calibration Verification	S1:6	Continuing Calibration Verification	S1:8	Continuing Calibration Verification 1
17	Continuing Calibration Blank	S1:7	Continuing Calibration Blank	S1:9	Continuing Calibration Blank 1
29	R1801453-016	1:53	R1801417-004SD 10X	2:22	R1801196-015
30	R1801453-017	1:54	R1801417-004A 10X	2:23	R1801196-016
31	R1801453-018	1:55	R1801417-004L 10X	2:24	R1801196-017
32	R1801453-019	1:56	R1801417-006 10X	2:25	R1801196-018
16	Continuing Calibration Verification	1:57	R1801417-008 10X	2:26	R1801411-001
17	Continuing Calibration Blank	1:58	R1801417-010 10X	2:27	R1801411-002
13	Contract Required Detection Limit	1:59	R1801417-013 10X	S1:8	Continuing Calibration Verification 1
14	Interference Check Solution A	1:60	R1801417-014 10X	S1:9	Continuing Calibration Blank 1
15	Interference Check Solution AB	2:1	R1801417-015 10X	S1:3	Contract Required Detection Limit
1:21	HLCCV2	S1:6	Continuing Calibration Verification	S1:4	Interference Check Solution A
1:22	HLCCV3	S1:7	Continuing Calibration Blank	S1:5	Interference Check Solution AB
1:23	HLCCV1	S1:3	Contract Required Detection Limit	S1:8	Continuing Calibration Verification 1
1:6	Continuing Calibration Verification	S1:4	Interference Check Solution A	S1:9	Continuing Calibration Blank 1
1:7	Continuing Calibration Blank	S1:5	Interference Check Solution AB		
		S1:8	Continuing Calibration Verification 1		
		S1:9	Continuing Calibration Blank 1		

NM 2/23/18 1/2



**ICP-6 Run Log**  
Serial number: MY15340001

Analyst: NM

Date: 2/23/18

Data File: 6FEB23A

	Prep Date	Lot #		Prep Date	Lot #
MRL			Cal Std 1		
ICSA			Cal Std 2		
ICSAB			Cal Std 5/ HLCCV1		
Int. Std			ICV/CCV		
			HLCCV2		
(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)					

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*NM 2/23/18*

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Data

Lot	
2:28	PBW-308803
2:29	LCSW-308803
2:30	R1801311-018
2:31	R1801311-019
2:32	R1801311-019L
2:33	R1801417-016
2:34	R1801469-001
2:35	R1801469-002
2:36	R1801469-003
2:37	R1701469-004
S1:8	Continuing Calibration Verification 1
S1:9	Continuing Calibration Blank 1
2:38	R1801469-004S
2:39	R1801469-004SD
2:40	R1801469-004A
2:41	R1801469-004L
2:42	R1801469-007
2:43	R1801469-008
2:44	R1801469-009
2:45	R1801469-010
2:46	R1801469-011
2:47	R1801469-012
S1:8	Continuing Calibration Verification 1
S1:9	Continuing Calibration Blank 1
2:48	R1801469-013
2:49	R1801469-014
2:50	R1801469-015
2:51	R1801469-016
2:52	R1801482-001
2:53	R1801482-002
2:54	R1801485-001
S1:8	Continuing Calibration Verification 1
S1:9	Continuing Calibration Blank 1
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:8	Continuing Calibration Verification 1
S1:9	Continuing Calibration Blank 1

*NM 2/23/18 2/2*

*R1801482-001 CR 2/26/18*



Path: C:\Agilent\ICP Expert\My Results\6FEB23A.esws  
 Date created: 11/10/2015 11:09:45 AM  
 Instrument used: MY15340001  
 Software Version : 7.100.6821.61355    Firmware Version : 2994  
 Notes:

*Analyst: NMZ/23/18*  
*(OK 2/26/18)*

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 16:42:44	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-115.9919
2/23/2018 16:42:44	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	66.4100
2/23/2018 16:42:44	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.6363
2/23/2018 16:42:44	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	87.3421
2/23/2018 16:42:44	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.7635
2/23/2018 16:42:44	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-574.2592
2/23/2018 16:42:44	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	7.4647
2/23/2018 16:42:44	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	15.5985
2/23/2018 16:42:44	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5.6505
2/23/2018 16:42:44	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5.0702
2/23/2018 16:42:44	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	27.8714
2/23/2018 16:42:44	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	19.1434
2/23/2018 16:42:44	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-3.0729
2/23/2018 16:42:44	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.3446
2/23/2018 16:42:44	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	2.0659
2/23/2018 16:42:44	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	3.5930
2/23/2018 16:42:44	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4592.2675
2/23/2018 16:42:44	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-23.2629
2/23/2018 16:42:44	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.7176
2/23/2018 16:42:44	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.4927
2/23/2018 16:42:44	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.8886
2/23/2018 16:42:44	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	1.0578
2/23/2018 16:42:44	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.4933
2/23/2018 16:42:44	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-520.4155
2/23/2018 16:42:44	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	18.1585
2/23/2018 16:42:44	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	98.2242
2/23/2018 16:42:44	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	989859.70
2/23/2018 16:42:44	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	990786.21
2/23/2018 16:42:44	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-31.0907
2/23/2018 16:46:06	Standard 1	Ag (328.068 nm)		N/A		-124.6973
2/23/2018 16:46:06	Standard 1	Al (394.401 nm)		N/A		326.0830
2/23/2018 16:46:06	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	2.0709
2/23/2018 16:46:06	Standard 1	B (249.772 nm)		N/A		70.9872
2/23/2018 16:46:06	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	764.8336
2/23/2018 16:46:06	Standard 1	Be (313.107 nm)		N/A		-579.6029
2/23/2018 16:46:06	Standard 1	Ca (227.547 nm)		N/A		39.6157
2/23/2018 16:46:06	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	38.5319
2/23/2018 16:46:06	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	28.8688
2/23/2018 16:46:06	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	245.1782
2/23/2018 16:46:06	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	757.9399

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 16:46:06	Standard 1	Fe (234.350 nm)		N/A		21.0334
2/23/2018 16:46:06	Standard 1	K (766.491 nm)		N/A		6735.3982
2/23/2018 16:46:06	Standard 1	Mg (279.078 nm)		N/A		1020.9527
2/23/2018 16:46:06	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	3574.3306
2/23/2018 16:46:06	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	270.8102
2/23/2018 16:46:06	Standard 1	Na (588.995 nm)		N/A		22458.0057
2/23/2018 16:46:06	Standard 1	Ni (230.299 nm)		N/A		-22.4685
2/23/2018 16:46:06	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	15.4817
2/23/2018 16:46:06	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	15.1456
2/23/2018 16:46:06	Standard 1	Se (196.026 nm)		N/A		-2.3037
2/23/2018 16:46:06	Standard 1	Sn (189.925 nm)		N/A		-0.9394
2/23/2018 16:46:06	Standard 1	Sr (216.596 nm)		N/A		-1.5340
2/23/2018 16:46:06	Standard 1	Ti (336.122 nm)		N/A		-518.3495
2/23/2018 16:46:06	Standard 1	Tl (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	42.9563
2/23/2018 16:46:06	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	215.4549
2/23/2018 16:46:06	Standard 1	Y (360.074 nm)	1.00 (Ratio)	0.47	1.00 (Ratio)	986275.63
2/23/2018 16:46:06	Standard 1	Y_R (360.074 nm)	1.00 (Ratio)	0.47	1.00 (Ratio)	987199.56
2/23/2018 16:46:06	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	268.8498
2/23/2018 16:49:28	Standard 2	Ag (328.068 nm)		N/A		-118.5165
2/23/2018 16:49:28	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1347.5316
2/23/2018 16:49:28	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	7.5202
2/23/2018 16:49:28	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	5885.0364
2/23/2018 16:49:28	Standard 2	Ba (230.424 nm)		N/A		4.4188
2/23/2018 16:49:28	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3603.0052
2/23/2018 16:49:28	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	69.8862
2/23/2018 16:49:28	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	123.1540
2/23/2018 16:49:28	Standard 2	Co (230.786 nm)		N/A		-6.8568
2/23/2018 16:49:28	Standard 2	Cr (267.716 nm)		N/A		-6.6294
2/23/2018 16:49:28	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1425.9068
2/23/2018 16:49:28	Standard 2	Fe (234.350 nm)		N/A		51.6962
2/23/2018 16:49:28	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	6749.3294
2/23/2018 16:49:28	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2037.0422
2/23/2018 16:49:28	Standard 2	Mn (257.610 nm)		N/A		20.7097
2/23/2018 16:49:28	Standard 2	Mo (202.032 nm)		N/A		4.5140
2/23/2018 16:49:28	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	49143.8859
2/23/2018 16:49:28	Standard 2	Ni (230.299 nm)		N/A		-26.3389
2/23/2018 16:49:28	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	120.7013
2/23/2018 16:49:28	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	92.5943
2/23/2018 16:49:28	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	7.1024
2/23/2018 16:49:28	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	626.9285
2/23/2018 16:49:28	Standard 2	Sr (216.596 nm)		N/A		-2.9067
2/23/2018 16:49:28	Standard 2	Tl (351.923 nm)		N/A		-504.7406
2/23/2018 16:49:28	Standard 2	Ti (336.122 nm)		N/A		14.7422
2/23/2018 16:49:28	Standard 2	V (292.401 nm)		N/A		103.8478
2/23/2018 16:49:28	Standard 2	Y (360.074 nm)	1.00 (Ratio)	0.48	1.00 (Ratio)	985513.72
2/23/2018 16:49:28	Standard 2	Y_R (360.074 nm)	1.00 (Ratio)	0.48	1.00 (Ratio)	986470.16
2/23/2018 16:49:28	Standard 2	Zn (213.857 nm)		N/A		-32.7563
2/23/2018 16:52:50	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	645.8769
2/23/2018 16:52:50	Standard 3	Al (394.401 nm)		N/A		2563.7586
2/23/2018 16:52:50	Standard 3	As (188.980 nm)		N/A		14.2691
2/23/2018 16:52:50	Standard 3	B (249.772 nm)		N/A		1538.3634

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 16:52:50	Standard 3	Ba (230.424 nm)		N/A		7505.1936
2/23/2018 16:52:50	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	6792.0771
2/23/2018 16:52:50	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	38.6407
2/23/2018 16:52:50	Standard 3	Cd (214.439 nm)		N/A		238.0191
2/23/2018 16:52:50	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	539.4850
2/23/2018 16:52:50	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	488.9488
2/23/2018 16:52:50	Standard 3	Cu (327.395 nm)		N/A		1733.7091
2/23/2018 16:52:50	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1187.0004
2/23/2018 16:52:50	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1662.5483
2/23/2018 16:52:50	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1018.9506
2/23/2018 16:52:50	Standard 3	Mn (257.610 nm)		N/A		5122.2527
2/23/2018 16:52:50	Standard 3	Mo (202.032 nm)		N/A		531.2011
2/23/2018 16:52:50	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	22547.4509
2/23/2018 16:52:50	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	276.3673
2/23/2018 16:52:50	Standard 3	Pb (220.353 nm)		N/A		27.0968
2/23/2018 16:52:50	Standard 3	Sb (217.582 nm)		N/A		152.2801
2/23/2018 16:52:50	Standard 3	Se (196.026 nm)		N/A		6.3159
2/23/2018 16:52:50	Standard 3	Sn (189.925 nm)		N/A		126.4991
2/23/2018 16:52:50	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	713.0367
2/23/2018 16:52:50	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	10853.5722
2/23/2018 16:52:50	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	72.2650
2/23/2018 16:52:50	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	2018.5969
2/23/2018 16:52:50	Standard 3	Y (360.074 nm)	1.00 (Ratio)	0.37	1.00 (Ratio)	988697.43
2/23/2018 16:52:50	Standard 3	Y_R (360.074 nm)	1.00 (Ratio)	0.37	1.00 (Ratio)	989660.97
2/23/2018 16:52:50	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	563.8192
2/23/2018 16:56:13	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	15308.4572
2/23/2018 16:56:13	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	54776.0197
2/23/2018 16:56:13	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	370.9373
2/23/2018 16:56:13	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	30328.6107
2/23/2018 16:56:13	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	150330.3406
2/23/2018 16:56:13	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	154250.7736
2/23/2018 16:56:13	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	681.2702
2/23/2018 16:56:13	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4533.3639
2/23/2018 16:56:13	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	11139.1448
2/23/2018 16:56:13	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	10062.0638
2/23/2018 16:56:13	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	35126.5363
2/23/2018 16:56:13	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	23774.0093
2/23/2018 16:56:13	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	35795.4490
2/23/2018 16:56:13	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	21109.1464
2/23/2018 16:56:13	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	102116.0738
2/23/2018 16:56:13	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	10810.1638
2/23/2018 16:56:13	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	543819.0894
2/23/2018 16:56:13	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	6005.5043
2/23/2018 16:56:13	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	480.0758
2/23/2018 16:56:13	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	3213.0890
2/23/2018 16:56:13	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	188.2052
2/23/2018 16:56:13	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2599.1358
2/23/2018 16:56:13	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	14573.6423
2/23/2018 16:56:13	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	231162.7759
2/23/2018 16:56:13	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	1190.8396
2/23/2018 16:56:13	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	39536.3074

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 16:56:13	Standard 4	Y (360.074 nm)	0.98 (Ratio)	0.42	0.98 (Ratio)	967258.24
2/23/2018 16:56:13	Standard 4	Y_R (360.074 nm)	0.98 (Ratio)	0.42	0.98 (Ratio)	968283.50
2/23/2018 16:56:13	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	12254.3517
2/23/2018 16:59:34	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	77561.3853
2/23/2018 16:59:34	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	280040.8784
2/23/2018 16:59:34	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1870.6073
2/23/2018 16:59:34	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	152145.9929
2/23/2018 16:59:34	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	696985.1354
2/23/2018 16:59:34	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	752413.3033
2/23/2018 16:59:34	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	3507.4724
2/23/2018 16:59:34	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	21408.2042
2/23/2018 16:59:34	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	53137.3215
2/23/2018 16:59:34	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	48290.7097
2/23/2018 16:59:34	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	175755.5844
2/23/2018 16:59:34	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	112297.4317
2/23/2018 16:59:34	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	184164.6611
2/23/2018 16:59:34	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	103154.2885
2/23/2018 16:59:34	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	485997.2929
2/23/2018 16:59:34	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	52294.1986
2/23/2018 16:59:34	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2697041.3002
2/23/2018 16:59:34	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	28454.5209
2/23/2018 16:59:34	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2282.3594
2/23/2018 16:59:34	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	15906.6704
2/23/2018 16:59:34	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	949.4945
2/23/2018 16:59:34	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12293.9136
2/23/2018 16:59:34	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	69094.9824
2/23/2018 16:59:34	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	1120358.8071
2/23/2018 16:59:34	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	6018.0330
2/23/2018 16:59:34	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	191095.3304
2/23/2018 16:59:34	Standard 5	Y (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	917954.57
2/23/2018 16:59:34	Standard 5	Y_R (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	919008.92
2/23/2018 16:59:34	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	60350.0631
2/23/2018 17:02:55	Initial Calibration Verification	Ag (328.068 nm)	0.4783 (ppm)	0.34	0.4783 (ppm)	37023.7440
2/23/2018 17:02:55	Initial Calibration Verification	Al (394.401 nm)	9.5704 (ppm)	0.18	9.5704 (ppm)	138521.5831
2/23/2018 17:02:55	Initial Calibration Verification	As (188.980 nm)	0.9725 (ppm)	0.53	0.9725 (ppm)	908.0980
2/23/2018 17:02:55	Initial Calibration Verification	B (249.772 nm)	2.4538 (ppm)	0.33	2.4538 (ppm)	74690.8050
2/23/2018 17:02:55	Initial Calibration Verification	Ba (230.424 nm)	10.3360 (ppm)	0.80	10.3360 (ppm)	361289.7646
2/23/2018 17:02:55	Initial Calibration Verification	Be (313.107 nm)	0.2512 (ppm)	0.26	0.2512 (ppm)	378189.5814
2/23/2018 17:02:55	Initial Calibration Verification	Ca (227.547 nm)	23.8632 (ppm)	0.14	23.8632 (ppm)	1675.4028
2/23/2018 17:02:55	Initial Calibration Verification	Cd (214.439 nm)	0.5023 (ppm)	0.82	0.5023 (ppm)	10784.8693
2/23/2018 17:02:55	Initial Calibration Verification	Co (230.786 nm)	2.5813 (ppm)	0.54	2.5813 (ppm)	27481.1501
2/23/2018 17:02:55	Initial Calibration Verification	Cr (267.716 nm)	0.5203 (ppm)	0.62	0.5203 (ppm)	25162.6266
2/23/2018 17:02:55	Initial Calibration Verification	Cu (327.395 nm)	1.2138 (ppm)	0.23	1.2138 (ppm)	85342.7789
2/23/2018 17:02:55	Initial Calibration Verification	Fe (234.350 nm)	5.0818 (ppm)	0.60	5.0818 (ppm)	57204.4600
2/23/2018 17:02:55	Initial Calibration Verification	K (766.491 nm)	24.3026 (ppm)	0.22	24.3026 (ppm)	89402.9797
2/23/2018 17:02:55	Initial Calibration Verification	Mg (279.078 nm)	24.8624 (ppm)	0.49	24.8624 (ppm)	51336.9022
2/23/2018 17:02:55	Initial Calibration Verification	Mn (257.610 nm)	0.7658 (ppm)	0.55	0.7658 (ppm)	248607.7605
2/23/2018 17:02:55	Initial Calibration Verification	Mo (202.032 nm)	2.4331 (ppm)	0.59	2.4331 (ppm)	25482.3171
2/23/2018 17:02:55	Initial Calibration Verification	Na (588.995 nm)	24.3916 (ppm)	0.25	24.3916 (ppm)	1314106.5679
2/23/2018 17:02:55	Initial Calibration Verification	Ni (230.299 nm)	2.0524 (ppm)	0.64	2.0524 (ppm)	14621.8562
2/23/2018 17:02:55	Initial Calibration Verification	Pb (220.353 nm)	0.5028 (ppm)	0.75	0.5028 (ppm)	1152.2674

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:02:55	Initial Calibration Verification	Sb (217.582 nm)	4.9087 (ppm)	0.29	4.9087 (ppm)	7810.3850
2/23/2018 17:02:55	Initial Calibration Verification	Se (196.026 nm)	0.4811 (ppm)	0.30	0.4811 (ppm)	455.7889
2/23/2018 17:02:55	Initial Calibration Verification	Sn (189.925 nm)	5.0816 (ppm)	0.58	5.0816 (ppm)	6261.7213
2/23/2018 17:02:55	Initial Calibration Verification	Sr (216.596 nm)	2.5381 (ppm)	0.62	2.5381 (ppm)	35146.3438
2/23/2018 17:02:55	Initial Calibration Verification	Ti (336.122 nm)	2.5122 (ppm)	0.37	2.5122 (ppm)	563367.8924
2/23/2018 17:02:55	Initial Calibration Verification	Tl (351.923 nm)	0.9858 (ppm)	0.42	0.9858 (ppm)	2972.9422
2/23/2018 17:02:55	Initial Calibration Verification	V (292.401 nm)	2.5003 (ppm)	0.51	2.5003 (ppm)	95725.6231
2/23/2018 17:02:55	Initial Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	0.47	0.95 (Ratio)	944952.67
2/23/2018 17:02:55	Initial Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	0.47	0.95 (Ratio)	946052.86
2/23/2018 17:02:55	Initial Calibration Verification	Zn (213.857 nm)	0.9988 (ppm)	0.53	0.9988 (ppm)	30143.0891
2/23/2018 17:06:16	Initial Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	47.61	-0.0001 (ppm)	-124.3969
2/23/2018 17:06:16	Initial Calibration Blank	Al (394.401 nm)	0.0010 (ppm)	57.16	0.0010 (ppm)	80.5340
2/23/2018 17:06:16	Initial Calibration Blank	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-1.9511
2/23/2018 17:06:16	Initial Calibration Blank	B (249.772 nm)	0.0032 (ppm)	8.06	0.0032 (ppm)	183.1849
2/23/2018 17:06:16	Initial Calibration Blank	Ba (230.424 nm)	0.0005 (ppm)	55.38	0.0005 (ppm)	22.8117
2/23/2018 17:06:16	Initial Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	27.94	0.0000 (ppm)	-547.0061
2/23/2018 17:06:16	Initial Calibration Blank	Ca (227.547 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	7.2869
2/23/2018 17:06:16	Initial Calibration Blank	Cd (214.439 nm)	-0.0001 u (ppm)	92.73	-0.0001 (ppm)	14.3845
2/23/2018 17:06:16	Initial Calibration Blank	Co (230.786 nm)	0.0003 (ppm)	90.54	0.0003 (ppm)	-1.9811
2/23/2018 17:06:16	Initial Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.0132
2/23/2018 17:06:16	Initial Calibration Blank	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	29.3387
2/23/2018 17:06:16	Initial Calibration Blank	Fe (234.350 nm)	0.0009 (ppm)	34.75	0.0009 (ppm)	29.0044
2/23/2018 17:06:16	Initial Calibration Blank	K (766.491 nm)	0.0421 (ppm)	20.95	0.0421 (ppm)	151.6505
2/23/2018 17:06:16	Initial Calibration Blank	Mg (279.078 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.2476
2/23/2018 17:06:16	Initial Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	60.66	0.0000 (ppm)	13.4101
2/23/2018 17:06:16	Initial Calibration Blank	Mo (202.032 nm)	0.0031 (ppm)	8.68	0.0031 (ppm)	35.8776
2/23/2018 17:06:16	Initial Calibration Blank	Na (588.995 nm)	0.0072 (ppm)	43.37	0.0072 (ppm)	-4201.2656
2/23/2018 17:06:16	Initial Calibration Blank	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-24.7961
2/23/2018 17:06:16	Initial Calibration Blank	Pb (220.353 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	6.8340
2/23/2018 17:06:16	Initial Calibration Blank	Sb (217.582 nm)	0.0065 (ppm)	33.23	0.0065 (ppm)	8.8034
2/23/2018 17:06:16	Initial Calibration Blank	Se (196.026 nm)	0.0029 (ppm)	90.70	0.0029 (ppm)	0.8511
2/23/2018 17:06:16	Initial Calibration Blank	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.2625
2/23/2018 17:06:16	Initial Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-2.0555
2/23/2018 17:06:16	Initial Calibration Blank	Ti (336.122 nm)	0.0008 (ppm)	4.41	0.0008 (ppm)	-343.6905
2/23/2018 17:06:16	Initial Calibration Blank	Tl (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	19.8416
2/23/2018 17:06:16	Initial Calibration Blank	V (292.401 nm)	0.0003 (ppm)	9.17	0.0003 (ppm)	111.5698
2/23/2018 17:06:16	Initial Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.45	1.00 (Ratio)	993056.00
2/23/2018 17:06:16	Initial Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.45	1.00 (Ratio)	994195.13
2/23/2018 17:06:16	Initial Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	69.52	0.0001 (ppm)	-29.3197
2/23/2018 17:09:37	Contract Required Detection Limit	Ag (328.068 nm)	0.0097 (ppm)	0.70	0.0097 (ppm)	635.1921
2/23/2018 17:09:37	Contract Required Detection Limit	Al (394.401 nm)	0.1779 (ppm)	0.24	0.1779 (ppm)	2640.0773
2/23/2018 17:09:37	Contract Required Detection Limit	As (188.980 nm)	0.0214 (ppm)	3.79	0.0214 (ppm)	17.3880
2/23/2018 17:09:37	Contract Required Detection Limit	B (249.772 nm)	0.1973 (ppm)	0.08	0.1973 (ppm)	6085.7012
2/23/2018 17:09:37	Contract Required Detection Limit	Ba (230.424 nm)	0.2110 (ppm)	0.26	0.2110 (ppm)	7380.4103
2/23/2018 17:09:37	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.25	0.0049 (ppm)	6788.7256
2/23/2018 17:09:37	Contract Required Detection Limit	Ca (227.547 nm)	0.9271 (ppm)	0.67	0.9271 (ppm)	72.2682
2/23/2018 17:09:37	Contract Required Detection Limit	Cd (214.439 nm)	0.0099 (ppm)	0.98	0.0099 (ppm)	227.7772
2/23/2018 17:09:37	Contract Required Detection Limit	Co (230.786 nm)	0.0506 (ppm)	0.91	0.0506 (ppm)	533.6458
2/23/2018 17:09:37	Contract Required Detection Limit	Cr (267.716 nm)	0.0100 (ppm)	1.00	0.0100 (ppm)	479.5206
2/23/2018 17:09:37	Contract Required Detection Limit	Cu (327.395 nm)	0.0244 (ppm)	0.88	0.0244 (ppm)	1745.4052
2/23/2018 17:09:37	Contract Required Detection Limit	Fe (234.350 nm)	0.1056 (ppm)	0.26	0.1056 (ppm)	1206.9973

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:09:37	Contract Required Detection Limit	K (766.491 nm)	0.9531 (ppm)	1.06	0.9531 (ppm)	3503.3449
2/23/2018 17:09:37	Contract Required Detection Limit	Mg (279.078 nm)	1.0153 (ppm)	0.08	1.0153 (ppm)	2092.2680
2/23/2018 17:09:37	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.31	0.0154 (ppm)	4998.1000
2/23/2018 17:09:37	Contract Required Detection Limit	Mo (202.032 nm)	0.0252 (ppm)	1.78	0.0252 (ppm)	267.6476
2/23/2018 17:09:37	Contract Required Detection Limit	Na (588.995 nm)	1.0147 (ppm)	0.55	1.0147 (ppm)	50266.7000
2/23/2018 17:09:37	Contract Required Detection Limit	Ni (230.299 nm)	0.0416 (ppm)	4.32	0.0416 (ppm)	273.4272
2/23/2018 17:09:37	Contract Required Detection Limit	Pb (220.353 nm)	0.0090 (ppm)	13.01	0.0090 (ppm)	26.2732
2/23/2018 17:09:37	Contract Required Detection Limit	Sb (217.582 nm)	0.0633 (ppm)	3.32	0.0633 (ppm)	99.3210
2/23/2018 17:09:37	Contract Required Detection Limit	Se (196.026 nm)	0.0108 (ppm)	4.15	0.0108 (ppm)	8.3922
2/23/2018 17:09:37	Contract Required Detection Limit	Sn (189.925 nm)	0.5054 (ppm)	0.52	0.5054 (ppm)	623.7300
2/23/2018 17:09:37	Contract Required Detection Limit	Sr (216.596 nm)	0.1013 (ppm)	0.51	0.1013 (ppm)	1399.0256
2/23/2018 17:09:37	Contract Required Detection Limit	Ti (336.122 nm)	0.0505 (ppm)	0.12	0.0505 (ppm)	10819.9141
2/23/2018 17:09:37	Contract Required Detection Limit	Tl (351.923 nm)	0.0190 (ppm)	15.59	0.0190 (ppm)	75.1883
2/23/2018 17:09:37	Contract Required Detection Limit	V (292.401 nm)	0.0487 (ppm)	0.25	0.0487 (ppm)	1961.5902
2/23/2018 17:09:37	Contract Required Detection Limit	Y (360.074 nm)	1.00 (Ratio)	0.59	1.00 (Ratio)	992760.75
2/23/2018 17:09:37	Contract Required Detection Limit	Y_R (360.074 nm)	1.00 (Ratio)	0.59	1.00 (Ratio)	993964.19
2/23/2018 17:09:37	Contract Required Detection Limit	Zn (213.857 nm)	0.0200 (ppm)	0.40	0.0200 (ppm)	573.4847
2/23/2018 17:12:58	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u (ppm)	37.10	-0.0001 (ppm)	-120.4656
2/23/2018 17:12:58	Interference Check Solution A	Al (394.401 nm)	268.5947 o (ppm)	0.16	268.5947 (ppm)	3885851.6510
2/23/2018 17:12:58	Interference Check Solution A	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-3.3040
2/23/2018 17:12:58	Interference Check Solution A	B (249.772 nm)	0.0372 (ppm)	1.57	0.0372 (ppm)	1217.3872
2/23/2018 17:12:58	Interference Check Solution A	Ba (230.424 nm)	0.0005 (ppm)	38.02	0.0005 (ppm)	22.0224
2/23/2018 17:12:58	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	2.12	-0.0001 (ppm)	-656.4135
2/23/2018 17:12:58	Interference Check Solution A	Ca (227.547 nm)	269.6647 o (ppm)	0.09	269.6647 (ppm)	18855.8976
2/23/2018 17:12:58	Interference Check Solution A	Cd (214.439 nm)	-0.0009 u (ppm)	25.14	-0.0009 (ppm)	-3.1944
2/23/2018 17:12:58	Interference Check Solution A	Co (230.786 nm)	-0.0016 u (ppm)	33.79	-0.0016 (ppm)	-22.4880
2/23/2018 17:12:58	Interference Check Solution A	Cr (267.716 nm)	-0.0001 u (ppm)	37.25	-0.0001 (ppm)	-11.9837
2/23/2018 17:12:58	Interference Check Solution A	Cu (327.395 nm)	0.0008 (ppm)	5.70	0.0008 (ppm)	82.9411
2/23/2018 17:12:58	Interference Check Solution A	Fe (234.350 nm)	92.3908 o (ppm)	0.47	92.3908 (ppm)	1039679.1968
2/23/2018 17:12:58	Interference Check Solution A	K (766.491 nm)	0.1591 (ppm)	27.46	0.1591 (ppm)	582.0842
2/23/2018 17:12:58	Interference Check Solution A	Mg (279.078 nm)	265.0777 o (ppm)	0.62	265.0777 (ppm)	547385.0192
2/23/2018 17:12:58	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	0.57	0.0016 (ppm)	531.4681
2/23/2018 17:12:58	Interference Check Solution A	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	3.5689
2/23/2018 17:12:58	Interference Check Solution A	Na (588.995 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-4692.9657
2/23/2018 17:12:58	Interference Check Solution A	Ni (230.299 nm)	-0.0022 u (ppm)	22.48	-0.0022 (ppm)	-39.3157
2/23/2018 17:12:58	Interference Check Solution A	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.5951
2/23/2018 17:12:58	Interference Check Solution A	Sb (217.582 nm)	0.0026 (ppm)	> 100.00	0.0026 (ppm)	2.5702
2/23/2018 17:12:58	Interference Check Solution A	Se (196.026 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-0.0439
2/23/2018 17:12:58	Interference Check Solution A	Sn (189.925 nm)	-0.0032 u (ppm)	61.04	-0.0032 (ppm)	-2.8741
2/23/2018 17:12:58	Interference Check Solution A	Sr (216.596 nm)	0.0200 (ppm)	5.36	0.0200 (ppm)	272.5790
2/23/2018 17:12:58	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	2.94	0.0020 (ppm)	-67.3562
2/23/2018 17:12:58	Interference Check Solution A	Tl (351.923 nm)	0.0072 (ppm)	6.60	0.0072 (ppm)	39.7699
2/23/2018 17:12:58	Interference Check Solution A	V (292.401 nm)	0.0034 K (ppm)	5.93	0.0034 (ppm)	229.5854 K
2/23/2018 17:12:58	Interference Check Solution A	Y (360.074 nm)	0.88 (Ratio)	0.40	0.88 (Ratio)	866728.62
2/23/2018 17:12:58	Interference Check Solution A	Y_R (360.074 nm)	0.88 (Ratio)	0.40	0.88 (Ratio)	867961.31
2/23/2018 17:12:58	Interference Check Solution A	Zn (213.857 nm)	0.0125 K (ppm)	1.21	0.0125 (ppm)	346.9760 K
2/23/2018 17:16:19	Interference Check Solution AB	Ag (328.068 nm)	0.2152 (ppm)	0.37	0.2152 (ppm)	16597.8887
2/23/2018 17:16:19	Interference Check Solution AB	Al (394.401 nm)	267.0949 o (ppm)	0.49	267.0949 (ppm)	3864152.8088
2/23/2018 17:16:19	Interference Check Solution AB	As (188.980 nm)	0.0992 (ppm)	2.24	0.0992 (ppm)	90.2677
2/23/2018 17:16:19	Interference Check Solution AB	B (249.772 nm)	0.0383 (ppm)	0.39	0.0383 (ppm)	1250.3392
2/23/2018 17:16:19	Interference Check Solution AB	Ba (230.424 nm)	0.5261 (ppm)	0.65	0.5261 (ppm)	18394.3452

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:16:19	Interference Check Solution AB	Be (313.107 nm)	0.5018 (ppm)	0.67	0.5018 (ppm)	755874.9447
2/23/2018 17:16:19	Interference Check Solution AB	Ce (227.547 nm)	268.0828 o (ppm)	0.58	268.0828 (ppm)	18745.3287
2/23/2018 17:16:19	Interference Check Solution AB	Cd (214.439 nm)	0.9626 (ppm)	0.56	0.9626 (ppm)	20653.4004
2/23/2018 17:16:19	Interference Check Solution AB	Co (230.786 nm)	0.4922 (ppm)	0.49	0.4922 (ppm)	5235.8527
2/23/2018 17:16:19	Interference Check Solution AB	Cr (267.716 nm)	0.5061 (ppm)	0.57	0.5061 (ppm)	24479.6170
2/23/2018 17:16:19	Interference Check Solution AB	Cu (327.395 nm)	0.5324 (ppm)	0.40	0.5324 (ppm)	37447.0232
2/23/2018 17:16:19	Interference Check Solution AB	Fe (234.350 nm)	92.0496 o (ppm)	0.41	92.0496 (ppm)	1035839.7745
2/23/2018 17:16:19	Interference Check Solution AB	K (766.491 nm)	0.0348 (ppm)	44.84	0.0348 (ppm)	125.0772
2/23/2018 17:16:19	Interference Check Solution AB	Mg (279.078 nm)	262.9312 o (ppm)	0.36	262.9312 (ppm)	542952.4143
2/23/2018 17:16:19	Interference Check Solution AB	Mn (257.610 nm)	0.5000 (ppm)	0.43	0.5000 (ppm)	162303.6740
2/23/2018 17:16:19	Interference Check Solution AB	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	3.4451
2/23/2018 17:16:19	Interference Check Solution AB	Na (588.995 nm)	-0.0012 u (ppm)	99.86	-0.0012 (ppm)	-4655.9652
2/23/2018 17:16:19	Interference Check Solution AB	Ni (230.299 nm)	0.9601 (ppm)	0.65	0.9601 (ppm)	6827.3945
2/23/2018 17:16:19	Interference Check Solution AB	Pb (220.353 nm)	0.0484 (ppm)	2.95	0.0484 (ppm)	116.1675
2/23/2018 17:16:19	Interference Check Solution AB	Sb (217.582 nm)	0.6186 (ppm)	0.50	0.6186 (ppm)	982.9351
2/23/2018 17:16:19	Interference Check Solution AB	Se (196.026 nm)	0.0543 (ppm)	10.77	0.0543 (ppm)	49.7966
2/23/2018 17:16:19	Interference Check Solution AB	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	1.0394
2/23/2018 17:16:19	Interference Check Solution AB	Sr (216.596 nm)	0.0207 (ppm)	1.50	0.0207 (ppm)	282.4238
2/23/2018 17:16:18	Interference Check Solution AB	Ti (336.122 nm)	0.0019 (ppm)	3.05	0.0019 (ppm)	-101.5100
2/23/2018 17:16:19	Interference Check Solution AB	Tl (351.923 nm)	0.1164 (ppm)	1.89	0.1164 (ppm)	367.1624
2/23/2018 17:16:19	Interference Check Solution AB	V (292.401 nm)	0.5015 (ppm)	0.42	0.5015 (ppm)	19280.5171
2/23/2018 17:16:19	Interference Check Solution AB	Y (360.074 nm)	0.88 (Ratio)	0.96	0.88 (Ratio)	870517.38
2/23/2018 17:16:19	Interference Check Solution AB	Y_R (360.074 nm)	0.88 (Ratio)	0.96	0.88 (Ratio)	871803.29
2/23/2018 17:16:19	Interference Check Solution AB	Zn (213.857 nm)	1.0321 (ppm)	0.46	1.0321 (ppm)	31147.9700
2/23/2018 17:19:40	Continuing Calibration Verification	Ag (328.068 nm)	0.4772 (ppm)	0.21	0.4772 (ppm)	36940.9484
2/23/2018 17:19:40	Continuing Calibration Verification	Al (394.401 nm)	9.5951 (ppm)	0.11	9.5951 (ppm)	138879.5776
2/23/2018 17:19:40	Continuing Calibration Verification	As (188.980 nm)	0.9507 (ppm)	1.01	0.9507 (ppm)	887.6969
2/23/2018 17:19:40	Continuing Calibration Verification	B (249.772 nm)	2.4355 (ppm)	0.25	2.4355 (ppm)	74133.3443
2/23/2018 17:19:40	Continuing Calibration Verification	Ba (230.424 nm)	10.2554 (ppm)	0.58	10.2554 (ppm)	358473.2814
2/23/2018 17:19:40	Continuing Calibration Verification	Be (313.107 nm)	0.2509 (ppm)	0.54	0.2509 (ppm)	377645.2752
2/23/2018 17:19:40	Continuing Calibration Verification	Ce (227.547 nm)	23.8605 (ppm)	0.60	23.8605 (ppm)	1675.2141
2/23/2018 17:19:40	Continuing Calibration Verification	Cd (214.439 nm)	0.4961 (ppm)	0.60	0.4961 (ppm)	10651.9407
2/23/2018 17:19:40	Continuing Calibration Verification	Co (230.786 nm)	2.5658 (ppm)	0.37	2.5658 (ppm)	27316.4829
2/23/2018 17:19:40	Continuing Calibration Verification	Cr (267.716 nm)	0.5205 (ppm)	0.43	0.5205 (ppm)	25172.4177
2/23/2018 17:19:40	Continuing Calibration Verification	Cu (327.395 nm)	1.2123 (ppm)	0.11	1.2123 (ppm)	85238.0857
2/23/2018 17:19:40	Continuing Calibration Verification	Fe (234.350 nm)	5.0630 (ppm)	0.37	5.0630 (ppm)	56992.5611
2/23/2018 17:19:40	Continuing Calibration Verification	K (766.491 nm)	24.4214 (ppm)	0.38	24.4214 (ppm)	69840.1106
2/23/2018 17:19:40	Continuing Calibration Verification	Mg (279.078 nm)	24.8066 (ppm)	0.29	24.8066 (ppm)	51221.6420
2/23/2018 17:19:40	Continuing Calibration Verification	Mn (257.610 nm)	0.7630 (ppm)	0.39	0.7630 (ppm)	247678.3919
2/23/2018 17:19:40	Continuing Calibration Verification	Mo (202.032 nm)	2.4146 (ppm)	0.46	2.4146 (ppm)	25288.1912
2/23/2018 17:19:40	Continuing Calibration Verification	Na (588.995 nm)	24.7047 (ppm)	0.61	24.7047 (ppm)	1331032.5308
2/23/2018 17:19:40	Continuing Calibration Verification	Ni (230.299 nm)	2.0427 (ppm)	0.34	2.0427 (ppm)	14552.6223
2/23/2018 17:19:40	Continuing Calibration Verification	Pb (220.353 nm)	0.4967 (ppm)	0.38	0.4967 (ppm)	1138.4722
2/23/2018 17:19:40	Continuing Calibration Verification	Sb (217.582 nm)	4.8857 (ppm)	0.10	4.8857 (ppm)	7773.8474
2/23/2018 17:19:40	Continuing Calibration Verification	Se (196.026 nm)	0.4813 (ppm)	1.41	0.4813 (ppm)	456.0383
2/23/2018 17:19:40	Continuing Calibration Verification	Sn (189.925 nm)	5.0254 (ppm)	0.30	5.0254 (ppm)	6192.4327
2/23/2018 17:19:40	Continuing Calibration Verification	Sr (216.596 nm)	2.5318 (ppm)	0.56	2.5318 (ppm)	35058.5115
2/23/2018 17:19:40	Continuing Calibration Verification	Ti (336.122 nm)	2.5108 (ppm)	0.18	2.5108 (ppm)	563068.5209
2/23/2018 17:19:40	Continuing Calibration Verification	Tl (351.923 nm)	0.9815 (ppm)	0.19	0.9815 (ppm)	2959.9212
2/23/2018 17:19:40	Continuing Calibration Verification	V (292.401 nm)	2.4926 (ppm)	0.28	2.4926 (ppm)	95433.4991
2/23/2018 17:19:40	Continuing Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	0.64	0.95 (Ratio)	944710.50



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:19:40	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	0.64	0.95 (Ratio)	946052.53
2/23/2018 17:19:40	Continuing Calibration Verification	Zn (213.857 nm)	0.9915 (ppm)	0.37	0.9915 (ppm)	29922.9299
2/23/2018 17:23:01	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	34.91	-0.0002 (ppm)	-127.9134
2/23/2018 17:23:01	Continuing Calibration Blank	Al (394.401 nm)	0.0023 (ppm)	21.15	0.0023 (ppm)	99.6346
2/23/2018 17:23:01	Continuing Calibration Blank	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.1541
2/23/2018 17:23:01	Continuing Calibration Blank	B (249.772 nm)	0.0018 (ppm)	19.39	0.0018 (ppm)	141.1403
2/23/2018 17:23:01	Continuing Calibration Blank	Ba (230.424 nm)	0.0008 (ppm)	5.21	0.0008 (ppm)	33.5621
2/23/2018 17:23:01	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	15.94	0.0000 (ppm)	-534.9106
2/23/2018 17:23:01	Continuing Calibration Blank	Ca (227.547 nm)	0.0094 u (ppm)	> 100.00	0.0094 (ppm)	8.1207
2/23/2018 17:23:01	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	17.6151
2/23/2018 17:23:01	Continuing Calibration Blank	Co (230.786 nm)	0.0005 (ppm)	36.15	0.0005 (ppm)	-0.7259
2/23/2018 17:23:01	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.8282
2/23/2018 17:23:01	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	33.27	0.0001 (ppm)	34.6887
2/23/2018 17:23:01	Continuing Calibration Blank	Fe (234.350 nm)	0.0010 (ppm)	32.17	0.0010 (ppm)	30.7581
2/23/2018 17:23:01	Continuing Calibration Blank	K (766.491 nm)	0.0221 (ppm)	31.91	0.0221 (ppm)	78.1086
2/23/2018 17:23:01	Continuing Calibration Blank	Mg (279.078 nm)	0.0034 (ppm)	23.36	0.0034 (ppm)	2.6543
2/23/2018 17:23:01	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	12.19	0.0001 (ppm)	30.1364
2/23/2018 17:23:01	Continuing Calibration Blank	Mo (202.032 nm)	0.0023 (ppm)	11.54	0.0023 (ppm)	27.2698
2/23/2018 17:23:01	Continuing Calibration Blank	Na (588.995 nm)	0.0057 (ppm)	46.10	0.0057 (ppm)	-4281.6539
2/23/2018 17:23:01	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-23.5980
2/23/2018 17:23:01	Continuing Calibration Blank	Pb (220.353 nm)	-0.0011 u (ppm)	51.52	-0.0011 (ppm)	3.1795
2/23/2018 17:23:01	Continuing Calibration Blank	Sb (217.582 nm)	0.0030 (ppm)	38.78	0.0030 (ppm)	3.3300
2/23/2018 17:23:01	Continuing Calibration Blank	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-3.1161
2/23/2018 17:23:01	Continuing Calibration Blank	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.7320
2/23/2018 17:23:01	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	83.01	0.0002 (ppm)	-1.6192
2/23/2018 17:23:01	Continuing Calibration Blank	Ti (336.122 nm)	0.0007 (ppm)	2.03	0.0007 (ppm)	-367.6182
2/23/2018 17:23:01	Continuing Calibration Blank	Tl (351.923 nm)	0.0014 (ppm)	3.73	0.0014 (ppm)	22.3055
2/23/2018 17:23:01	Continuing Calibration Blank	V (292.401 nm)	0.0003 (ppm)	54.33	0.0003 (ppm)	110.2433
2/23/2018 17:23:01	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	1.65	1.01 (Ratio)	995231.69
2/23/2018 17:23:01	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	1.65	1.01 (Ratio)	996563.65
2/23/2018 17:23:01	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	49.14	0.0001 (ppm)	-26.8922
2/23/2018 17:26:23	PBS-308693	Ag (328.068 nm)	-0.0002 u (ppm)	43.45	-0.0002 (ppm)	-129.8559
2/23/2018 17:26:23	PBS-308693	Al (394.401 nm)	0.0058 (ppm)	3.98	0.0058 (ppm)	149.8777
2/23/2018 17:26:23	PBS-308693	As (188.980 nm)	0.0012 (ppm)	76.01	0.0012 (ppm)	-1.5262
2/23/2018 17:26:23	PBS-308693	B (249.772 nm)	0.0006 (ppm)	13.64	0.0006 (ppm)	105.4876
2/23/2018 17:26:23	PBS-308693	Ba (230.424 nm)	0.0003 (ppm)	25.21	0.0003 (ppm)	14.9538
2/23/2018 17:26:23	PBS-308693	Be (313.107 nm)	0.0000 (ppm)	17.48	0.0000 (ppm)	-542.1960
2/23/2018 17:26:23	PBS-308693	Ca (227.547 nm)	0.0976 (ppm)	35.39	0.0976 (ppm)	14.2896
2/23/2018 17:26:23	PBS-308693	Cd (214.439 nm)	0.0002 (ppm)	39.78	0.0002 (ppm)	20.3371
2/23/2018 17:26:23	PBS-308693	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.4885
2/23/2018 17:26:23	PBS-308693	Cr (267.716 nm)	0.0005 (ppm)	2.88	0.0005 (ppm)	18.0002
2/23/2018 17:26:23	PBS-308693	Cu (327.395 nm)	0.0008 (ppm)	11.19	0.0008 (ppm)	87.0083
2/23/2018 17:26:23	PBS-308693	Fe (234.350 nm)	0.0182 (ppm)	0.51	0.0182 (ppm)	224.0688
2/23/2018 17:26:23	PBS-308693	K (766.491 nm)	0.0196 (ppm)	13.19	0.0196 (ppm)	68.8686
2/23/2018 17:26:23	PBS-308693	Mg (279.078 nm)	0.0255 (ppm)	1.32	0.0255 (ppm)	48.3855
2/23/2018 17:26:23	PBS-308693	Mn (257.610 nm)	0.0075 (ppm)	0.22	0.0075 (ppm)	2446.4373
2/23/2018 17:26:23	PBS-308693	Mo (202.032 nm)	0.0008 (ppm)	44.08	0.0008 (ppm)	11.6730
2/23/2018 17:26:23	PBS-308693	Na (588.995 nm)	0.2005 (ppm)	1.53	0.2005 (ppm)	6246.4282
2/23/2018 17:26:23	PBS-308693	Ni (230.299 nm)	0.0003 (ppm)	35.22	0.0003 (ppm)	-20.9638
2/23/2018 17:26:23	PBS-308693	Pb (220.353 nm)	0.0009 (ppm)	3.76	0.0009 (ppm)	7.7015
2/23/2018 17:26:23	PBS-308693	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	0.3788

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:26:23	PBS-308693	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.2055
2/23/2018 17:26:23	PBS-308693	Sn (189.925 nm)	0.0160 (ppm)	7.27	0.0160 (ppm)	20.7111
2/23/2018 17:26:23	PBS-308693	Sr (216.596 nm)	0.0002 (ppm)	50.78	0.0002 (ppm)	-1.5085
2/23/2018 17:26:23	PBS-308693	Ti (336.122 nm)	0.0000 (ppm)	94.13	0.0000 (ppm)	-522.5540
2/23/2018 17:26:23	PBS-308693	Ti (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	15.1805
2/23/2018 17:26:23	PBS-308693	V (292.401 nm)	0.0002 (ppm)	20.98	0.0002 (ppm)	104.4281
2/23/2018 17:26:23	PBS-308693	Y (360.074 nm)	1.01 (Ratio)	0.71	1.01 (Ratio)	1002603.26
2/23/2018 17:26:23	PBS-308693	Y_R (360.074 nm)	1.01 (Ratio)	0.71	1.01 (Ratio)	1003964.85
2/23/2018 17:26:23	PBS-308693	Zn (213.857 nm)	0.0031 (ppm)	1.54	0.0031 (ppm)	63.3014
2/23/2018 17:29:44	LCSS-308693	Ag (328.068 nm)	0.0462 (ppm)	3.34	0.0462 (ppm)	3472.6248
2/23/2018 17:29:44	LCSS-308693	Al (394.401 nm)	1.7545 (ppm)	3.46	1.7545 (ppm)	25448.4402
2/23/2018 17:29:44	LCSS-308693	As (188.980 nm)	0.0367 (ppm)	17.00	0.0367 (ppm)	31.7322
2/23/2018 17:29:44	LCSS-308693	B (249.772 nm)	0.8920 (ppm)	3.43	0.8920 (ppm)	27206.7871
2/23/2018 17:29:44	LCSS-308693	Be (230.424 nm)	2.0380 (ppm)	3.16	2.0380 (ppm)	71239.9639
2/23/2018 17:29:44	LCSS-308693	Be (313.107 nm)	0.0469 (ppm)	3.43	0.0469 (ppm)	70069.9460
2/23/2018 17:29:44	LCSS-308693	Ca (227.547 nm)	1.8213 (ppm)	5.53	1.8213 (ppm)	134.7661
2/23/2018 17:29:44	LCSS-308693	Cd (214.439 nm)	0.0494 (ppm)	4.12	0.0494 (ppm)	1074.8166
2/23/2018 17:29:44	LCSS-308693	Co (230.786 nm)	0.4979 (ppm)	3.51	0.4979 (ppm)	5296.6905
2/23/2018 17:29:44	LCSS-308693	Cr (267.716 nm)	0.2060 (ppm)	3.40	0.2060 (ppm)	9959.9435
2/23/2018 17:29:44	LCSS-308693	Cu (327.395 nm)	0.2367 (ppm)	2.85	0.2367 (ppm)	16662.7767
2/23/2018 17:29:44	LCSS-308693	Fe (234.350 nm)	1.0074 (ppm)	3.49	1.0074 (ppm)	11355.7532
2/23/2018 17:29:44	LCSS-308693	K (766.491 nm)	17.9082 (ppm)	3.18	17.9082 (ppm)	65878.9873
2/23/2018 17:29:44	LCSS-308693	Mg (279.078 nm)	1.8743 (ppm)	3.49	1.8743 (ppm)	3866.1277
2/23/2018 17:29:44	LCSS-308693	Mn (257.610 nm)	0.4944 (ppm)	3.43	0.4944 (ppm)	160503.9986
2/23/2018 17:29:44	LCSS-308693	Mo (202.032 nm)	0.4847 (ppm)	3.62	0.4847 (ppm)	5079.3085
2/23/2018 17:29:44	LCSS-308693	Na (588.995 nm)	18.6297 (ppm)	3.36	18.6297 (ppm)	1002596.6783
2/23/2018 17:29:44	LCSS-308693	Ni (230.289 nm)	0.4834 (ppm)	3.41	0.4834 (ppm)	3426.1324
2/23/2018 17:29:44	LCSS-308693	Pb (220.353 nm)	0.4854 (ppm)	3.31	0.4854 (ppm)	1112.6041
2/23/2018 17:29:44	LCSS-308693	Sb (217.582 nm)	0.4424 (ppm)	4.22	0.4424 (ppm)	702.4959
2/23/2018 17:29:44	LCSS-308693	Se (196.026 nm)	0.9008 (ppm)	3.81	0.9008 (ppm)	855.0731
2/23/2018 17:29:44	LCSS-308693	Sn (189.925 nm)	4.8085 (ppm)	4.04	4.8085 (ppm)	5925.1736
2/23/2018 17:29:44	LCSS-308693	Sr (216.596 nm)	2.0254 (ppm)	2.80	2.0254 (ppm)	28045.2021
2/23/2018 17:29:44	LCSS-308693	Ti (336.122 nm)	0.4888 (ppm)	3.40	0.4888 (ppm)	109192.5285
2/23/2018 17:29:44	LCSS-308693	Ti (351.923 nm)	1.7535 (ppm)	3.29	1.7535 (ppm)	5273.8400
2/23/2018 17:29:44	LCSS-308693	V (292.401 nm)	0.4841 (ppm)	3.47	0.4841 (ppm)	18512.0375
2/23/2018 17:29:44	LCSS-308693	Y (360.074 nm)	0.99 (Ratio)	2.66	0.99 (Ratio)	975879.89
2/23/2018 17:29:44	LCSS-308693	Y_R (360.074 nm)	0.99 (Ratio)	2.66	0.99 (Ratio)	977287.36
2/23/2018 17:29:44	LCSS-308693	Zn (213.857 nm)	0.4647 (ppm)	3.02	0.4647 (ppm)	14006.4412
2/23/2018 17:33:05	R1801453-001	Ag (328.068 nm)	0.0002 (ppm)	68.59	0.0002 (ppm)	-99.3738
2/23/2018 17:33:05	R1801453-001	Al (394.401 nm)	53.4300 o (ppm)	2.02	53.4300 (ppm)	773043.1080
2/23/2018 17:33:05	R1801453-001	As (188.980 nm)	0.0473 (ppm)	7.96	0.0473 (ppm)	41.6691
2/23/2018 17:33:05	R1801453-001	B (249.772 nm)	0.0857 (ppm)	2.16	0.0857 (ppm)	2693.5091
2/23/2018 17:33:05	R1801453-001	Be (230.424 nm)	0.4044 (ppm)	2.43	0.4044 (ppm)	14140.6080
2/23/2018 17:33:05	R1801453-001	Be (313.107 nm)	0.0026 (ppm)	2.07	0.0026 (ppm)	3364.1339
2/23/2018 17:33:05	R1801453-001	Ca (227.547 nm)	252.3330 o (ppm)	1.92	252.3330 (ppm)	17644.4842
2/23/2018 17:33:05	R1801453-001	Cd (214.439 nm)	0.0125 (ppm)	2.41	0.0125 (ppm)	283.4255
2/23/2018 17:33:05	R1801453-001	Co (230.786 nm)	0.0335 (ppm)	1.57	0.0335 (ppm)	351.0218
2/23/2018 17:33:05	R1801453-001	Cr (267.716 nm)	0.0933 (ppm)	2.02	0.0933 (ppm)	4507.1552
2/23/2018 17:33:05	R1801453-001	Cu (327.395 nm)	0.1624 (ppm)	1.91	0.1624 (ppm)	11442.7062
2/23/2018 17:33:05	R1801453-001	Fe (234.350 nm)	118.4771 o (ppm)	2.16	118.4771 (ppm)	1333225.1709
2/23/2018 17:33:05	R1801453-001	K (766.491 nm)	7.7355 (ppm)	1.52	7.7355 (ppm)	28454.8401

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:33:05	R1801453-001	Mg (279.078 nm)	106.3835 o (ppm)	2.02	106.3835 (ppm)	219679.1456
2/23/2018 17:33:05	R1801453-001	Mn (257.610 nm)	3.3491 o (ppm)	1.98	3.3491 (ppm)	1087223.4534
2/23/2018 17:33:05	R1801453-001	Mo (202.032 nm)	0.0038 (ppm)	13.17	0.0038 (ppm)	43.6840
2/23/2018 17:33:05	R1801453-001	Na (588.995 nm)	1.6501 (ppm)	1.53	1.6501 (ppm)	84617.6238
2/23/2018 17:33:05	R1801453-001	Ni (230.299 nm)	0.0696 (ppm)	0.69	0.0696 (ppm)	473.0134
2/23/2018 17:33:05	R1801453-001	Pb (220.353 nm)	1.2210 o (ppm)	2.06	1.2210 (ppm)	2789.9034
2/23/2018 17:33:05	R1801453-001	Sb (217.582 nm)	0.0004 (ppm)	62.82	0.0004 (ppm)	-0.8903
2/23/2018 17:33:05	R1801453-001	Se (196.026 nm)	0.0057 (ppm)	30.54	0.0057 (ppm)	3.5592
2/23/2018 17:33:05	R1801453-001	Sn (189.925 nm)	0.0761 (ppm)	4.12	0.0761 (ppm)	94.8690
2/23/2018 17:33:05	R1801453-001	Sr (216.596 nm)	0.3175 (ppm)	2.24	0.3175 (ppm)	4392.6481
2/23/2018 17:33:05	R1801453-001	Ti (336.122 nm)	0.8840 (ppm)	1.98	0.8840 (ppm)	19798.7706
2/23/2018 17:33:05	R1801453-001	Tl (351.923 nm)	-0.0070 u (ppm)	51.74	-0.0070 (ppm)	-2.8132
2/23/2018 17:33:05	R1801453-001	V (292.401 nm)	0.1728 (ppm)	1.71	0.1728 (ppm)	6705.4206
2/23/2018 17:33:05	R1801453-001	Y (360.074 nm)	0.95 (Ratio)	1.14	0.95 (Ratio)	942142.08
2/23/2018 17:33:05	R1801453-001	Y_R (360.074 nm)	0.95 (Ratio)	1.14	0.95 (Ratio)	943624.85
2/23/2018 17:33:05	R1801453-001	Zn (213.857 nm)	1.6035 (ppm)	2.75	1.6035 (ppm)	48411.3812
2/23/2018 17:36:28	R1801453-002	Ag (328.068 nm)	0.0035 (ppm)	4.40	0.0035 (ppm)	154.4335
2/23/2018 17:36:28	R1801453-002	Al (394.401 nm)	42.8320 o (ppm)	4.48	42.8320 (ppm)	619720.9681
2/23/2018 17:36:28	R1801453-002	As (188.980 nm)	0.0672 (ppm)	4.35	0.0672 (ppm)	60.2803
2/23/2018 17:36:28	R1801453-002	B (249.772 nm)	0.0761 (ppm)	5.05	0.0761 (ppm)	2399.8392
2/23/2018 17:36:28	R1801453-002	Ba (230.424 nm)	0.4035 (ppm)	4.71	0.4035 (ppm)	14107.2176
2/23/2018 17:36:28	R1801453-002	Be (313.107 nm)	0.0030 (ppm)	4.31	0.0030 (ppm)	3990.4360
2/23/2018 17:36:28	R1801453-002	Ca (227.547 nm)	59.0519 o (ppm)	4.54	59.0519 (ppm)	4134.9463
2/23/2018 17:36:28	R1801453-002	Cd (214.439 nm)	0.0060 (ppm)	4.57	0.0060 (ppm)	144.7633
2/23/2018 17:36:28	R1801453-002	Co (230.786 nm)	0.0634 (ppm)	4.58	0.0634 (ppm)	669.4501
2/23/2018 17:36:28	R1801453-002	Cr (267.716 nm)	0.0767 (ppm)	4.70	0.0767 (ppm)	3706.9085
2/23/2018 17:36:28	R1801453-002	Cu (327.395 nm)	1.7836 (ppm)	4.42	1.7836 (ppm)	125391.2388
2/23/2018 17:36:28	R1801453-002	Fe (234.350 nm)	101.9459 o (ppm)	4.54	101.9459 (ppm)	1147201.7802
2/23/2018 17:36:28	R1801453-002	K (766.491 nm)	4.6515 (ppm)	4.10	4.6515 (ppm)	17109.2564
2/23/2018 17:36:28	R1801453-002	Mg (279.078 nm)	15.0303 (ppm)	4.76	15.0303 (ppm)	31033.4858
2/23/2018 17:36:28	R1801453-002	Mn (257.610 nm)	3.0315 o (ppm)	4.70	3.0315 (ppm)	984103.4320
2/23/2018 17:36:28	R1801453-002	Mo (202.032 nm)	0.0152 (ppm)	4.28	0.0152 (ppm)	162.6932
2/23/2018 17:36:28	R1801453-002	Na (588.995 nm)	3.8350 (ppm)	4.07	3.8350 (ppm)	202740.4706
2/23/2018 17:36:28	R1801453-002	Ni (230.299 nm)	0.1030 (ppm)	3.79	0.1030 (ppm)	711.4818
2/23/2018 17:36:28	R1801453-002	Pb (220.353 nm)	1.6303 o (ppm)	4.99	1.6303 (ppm)	3723.2606
2/23/2018 17:36:28	R1801453-002	Sb (217.582 nm)	0.0091 (ppm)	15.49	0.0091 (ppm)	13.0598
2/23/2018 17:36:28	R1801453-002	Se (196.026 nm)	0.0127 (ppm)	17.14	0.0127 (ppm)	10.2227
2/23/2018 17:36:28	R1801453-002	Sn (189.925 nm)	0.1711 (ppm)	4.63	0.1711 (ppm)	211.9048
2/23/2018 17:36:28	R1801453-002	Sr (216.596 nm)	0.3948 (ppm)	4.79	0.3948 (ppm)	5463.2378
2/23/2018 17:36:28	R1801453-002	Ti (336.122 nm)	0.8621 (ppm)	4.46	0.8621 (ppm)	192982.7687
2/23/2018 17:36:28	R1801453-002	Tl (351.923 nm)	-0.0252 u (ppm)	9.15	-0.0252 (ppm)	-57.2442
2/23/2018 17:36:28	R1801453-002	V (292.401 nm)	0.2206 (ppm)	4.79	0.2206 (ppm)	8537.2323
2/23/2018 17:36:28	R1801453-002	Y (360.074 nm)	0.99 (Ratio)	3.38	0.99 (Ratio)	979018.05
2/23/2018 17:36:28	R1801453-002	Y_R (360.074 nm)	0.99 (Ratio)	3.38	0.99 (Ratio)	980533.94
2/23/2018 17:36:28	R1801453-002	Zn (213.857 nm)	2.3605 o (ppm)	4.86	2.3605 (ppm)	71279.8477
2/23/2018 17:39:49	R1801453-003	Ag (328.068 nm)	-0.0003 u (ppm)	36.43	-0.0003 (ppm)	-138.8717
2/23/2018 17:39:49	R1801453-003	Al (394.401 nm)	73.2540 o (ppm)	2.98	73.2540 (ppm)	1059839.2178
2/23/2018 17:39:49	R1801453-003	As (188.980 nm)	0.0300 (ppm)	3.27	0.0300 (ppm)	25.4890
2/23/2018 17:39:49	R1801453-003	B (249.772 nm)	0.0738 (ppm)	3.35	0.0738 (ppm)	2331.2793
2/23/2018 17:39:49	R1801453-003	Ba (230.424 nm)	0.3822 (ppm)	3.14	0.3822 (ppm)	13364.0429
2/23/2018 17:39:49	R1801453-003	Be (313.107 nm)	0.0036 (ppm)	3.27	0.0036 (ppm)	4820.9713

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:39:49	R1801453-003	Ca (227.547 nm)	94.9016 o (ppm)	2.86	94.9016 (ppm)	6640.6867
2/23/2018 17:39:49	R1801453-003	Cd (214.439 nm)	0.0065 (ppm)	1.60	0.0065 (ppm)	155.6156
2/23/2018 17:39:49	R1801453-003	Co (230.786 nm)	0.0448 (ppm)	2.86	0.0448 (ppm)	471.4105
2/23/2018 17:39:49	R1801453-003	Cr (267.716 nm)	0.0925 (ppm)	3.52	0.0925 (ppm)	4467.4671
2/23/2018 17:39:49	R1801453-003	Cu (327.395 nm)	0.0914 (ppm)	2.54	0.0914 (ppm)	6450.6971
2/23/2018 17:39:49	R1801453-003	Fe (234.350 nm)	118.4908 o (ppm)	3.67	118.4908 (ppm)	1333378.4549
2/23/2018 17:39:49	R1801453-003	K (766.491 nm)	6.1003 (ppm)	2.46	6.1003 (ppm)	22439.3138
2/23/2018 17:39:49	R1801453-003	Mg (279.078 nm)	65.1757 o (ppm)	3.42	65.1757 (ppm)	134584.3742
2/23/2018 17:39:49	R1801453-003	Mn (257.610 nm)	3.9219 o (ppm)	3.47	3.9219 (ppm)	1273169.3219
2/23/2018 17:39:49	R1801453-003	Mo (202.032 nm)	0.0035 (ppm)	9.94	0.0035 (ppm)	40.5296
2/23/2018 17:39:49	R1801453-003	Na (588.995 nm)	2.1051 (ppm)	2.30	2.1051 (ppm)	109214.5458
2/23/2018 17:39:49	R1801453-003	Ni (230.299 nm)	0.0730 (ppm)	2.48	0.0730 (ppm)	497.6851
2/23/2018 17:39:49	R1801453-003	Pb (220.353 nm)	0.0838 (ppm)	3.65	0.0838 (ppm)	196.9160
2/23/2018 17:39:49	R1801453-003	Sb (217.582 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-0.0552
2/23/2018 17:39:49	R1801453-003	Se (196.026 nm)	0.0061 (ppm)	30.48	0.0061 (ppm)	3.9363
2/23/2018 17:39:49	R1801453-003	Sn (189.925 nm)	0.0221 (ppm)	5.60	0.0221 (ppm)	28.2911
2/23/2018 17:39:49	R1801453-003	Sr (216.596 nm)	0.1016 (ppm)	3.47	0.1016 (ppm)	1402.2407
2/23/2018 17:39:49	R1801453-003	Ti (336.122 nm)	0.8024 (ppm)	3.13	0.8024 (ppm)	179581.4325
2/23/2018 17:39:49	R1801453-003	Tl (351.923 nm)	-0.0206 u (ppm)	13.68	-0.0206 (ppm)	-43.4870
2/23/2018 17:39:49	R1801453-003	V (292.401 nm)	0.1741 (ppm)	3.27	0.1741 (ppm)	6756.7327
2/23/2018 17:39:49	R1801453-003	Y (360.074 nm)	1.00 (Ratio)	2.18	1.00 (Ratio)	990052.68
2/23/2018 17:39:49	R1801453-003	Y_R (360.074 nm)	1.00 (Ratio)	2.18	1.00 (Ratio)	991575.39
2/23/2018 17:39:49	R1801453-003	Zn (213.857 nm)	1.6348 (ppm)	3.37	1.6348 (ppm)	49356.5991
2/23/2018 17:43:10	R1801453-003S	Ag (328.068 nm)	0.0465 (ppm)	2.39	0.0465 (ppm)	3492.8647
2/23/2018 17:43:10	R1801453-003S	Al (394.401 nm)	78.4888 o (ppm)	2.40	78.4888 (ppm)	1135571.6749
2/23/2018 17:43:10	R1801453-003S	As (188.980 nm)	0.0618 (ppm)	7.56	0.0618 (ppm)	55.2867
2/23/2018 17:43:10	R1801453-003S	B (249.772 nm)	0.9022 (ppm)	1.99	0.9022 (ppm)	27517.9255
2/23/2018 17:43:10	R1801453-003S	Ba (230.424 nm)	2.3041 (ppm)	1.52	2.3041 (ppm)	80543.1848
2/23/2018 17:43:10	R1801453-003S	Be (313.107 nm)	0.0488 (ppm)	2.07	0.0488 (ppm)	72933.6642
2/23/2018 17:43:10	R1801453-003S	Ca (227.547 nm)	129.8776 o (ppm)	2.36	129.8776 (ppm)	9085.3624
2/23/2018 17:43:10	R1801453-003S	Cd (214.439 nm)	0.0513 (ppm)	1.58	0.0513 (ppm)	1116.3676
2/23/2018 17:43:10	R1801453-003S	Co (230.786 nm)	0.4989 (ppm)	1.94	0.4989 (ppm)	5307.3796
2/23/2018 17:43:10	R1801453-003S	Cr (267.716 nm)	0.2835 (ppm)	1.97	0.2835 (ppm)	13709.6210
2/23/2018 17:43:10	R1801453-003S	Cu (327.395 nm)	0.3308 (ppm)	2.27	0.3308 (ppm)	23278.2390
2/23/2018 17:43:10	R1801453-003S	Fe (234.350 nm)	108.5292 o (ppm)	1.66	108.5292 (ppm)	1221282.1774
2/23/2018 17:43:10	R1801453-003S	K (766.491 nm)	25.3813 (ppm)	2.58	25.3813 (ppm)	93371.6597
2/23/2018 17:43:10	R1801453-003S	Mg (279.078 nm)	83.3966 o (ppm)	1.97	83.3966 (ppm)	172210.9586
2/23/2018 17:43:10	R1801453-003S	Mn (257.610 nm)	5.2403 o (ppm)	1.59	5.2403 (ppm)	1701163.1527
2/23/2018 17:43:10	R1801453-003S	Mo (202.032 nm)	0.4576 (ppm)	1.76	0.4576 (ppm)	4795.2128
2/23/2018 17:43:10	R1801453-003S	Na (588.995 nm)	21.8702 (ppm)	2.82	21.8702 (ppm)	1177789.5253
2/23/2018 17:43:10	R1801453-003S	Ni (230.299 nm)	0.5089 (ppm)	2.12	0.5089 (ppm)	3607.6828
2/23/2018 17:43:10	R1801453-003S	Pb (220.353 nm)	0.5355 (ppm)	1.33	0.5355 (ppm)	1226.9161
2/23/2018 17:43:10	R1801453-003S	Sb (217.582 nm)	0.3794 (ppm)	2.31	0.3794 (ppm)	602.3732
2/23/2018 17:43:10	R1801453-003S	Se (196.026 nm)	0.8928 (ppm)	2.11	0.8928 (ppm)	847.4526
2/23/2018 17:43:10	R1801453-003S	Sn (189.925 nm)	4.5085 (ppm)	1.96	4.5085 (ppm)	5555.6418
2/23/2018 17:43:10	R1801453-003S	Sr (216.596 nm)	1.9694 (ppm)	1.22	1.9694 (ppm)	27270.5081
2/23/2018 17:43:10	R1801453-003S	Ti (336.122 nm)	1.3379 (ppm)	2.16	1.3379 (ppm)	299795.7018
2/23/2018 17:43:10	R1801453-003S	Tl (351.923 nm)	1.8205 (ppm)	2.31	1.8205 (ppm)	5474.5523
2/23/2018 17:43:10	R1801453-003S	V (292.401 nm)	0.6305 (ppm)	2.04	0.6305 (ppm)	24211.1511
2/23/2018 17:43:10	R1801453-003S	Y (360.074 nm)	0.97 (Ratio)	2.66	0.97 (Ratio)	958099.91
2/23/2018 17:43:10	R1801453-003S	Y_R (360.074 nm)	0.97 (Ratio)	2.66	0.97 (Ratio)	959547.05

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:43:10	R1801453-003S	Zn (213.857 nm)	2.3181 o (ppm)	2.03	2.3181 (ppm)	69999.8394
2/23/2018 17:46:30	R1801453-003SD	Ag (328.068 nm)	0.0455 (ppm)	0.31	0.0455 (ppm)	3413.8424
2/23/2018 17:46:30	R1801453-003SD	Al (394.401 nm)	77.5835 o (ppm)	0.11	77.5835 (ppm)	1122474.7866
2/23/2018 17:46:30	R1801453-003SD	As (188.980 nm)	0.0626 (ppm)	10.66	0.0626 (ppm)	55.9969
2/23/2018 17:46:30	R1801453-003SD	B (249.772 nm)	0.8884 (ppm)	0.19	0.8884 (ppm)	27095.3140
2/23/2018 17:46:30	R1801453-003SD	Ba (230.424 nm)	2.2448 (ppm)	0.40	2.2448 (ppm)	78471.3646
2/23/2018 17:46:30	R1801453-003SD	Be (313.107 nm)	0.0481 (ppm)	0.42	0.0481 (ppm)	72014.9891
2/23/2018 17:46:30	R1801453-003SD	Ca (227.547 nm)	94.7178 o (ppm)	0.21	94.7178 (ppm)	6627.8394
2/23/2018 17:46:30	R1801453-003SD	Cd (214.439 nm)	0.0502 (ppm)	1.16	0.0502 (ppm)	1091.4116
2/23/2018 17:46:30	R1801453-003SD	Co (230.786 nm)	0.4987 (ppm)	0.49	0.4987 (ppm)	5304.7961
2/23/2018 17:46:30	R1801453-003SD	Cr (267.716 nm)	0.2796 (ppm)	0.51	0.2796 (ppm)	13519.4536
2/23/2018 17:46:30	R1801453-003SD	Cu (327.395 nm)	0.3125 (ppm)	0.06	0.3125 (ppm)	21992.8179
2/23/2018 17:46:30	R1801453-003SD	Fe (234.350 nm)	119.6751 o (ppm)	0.47	119.6751 (ppm)	1346706.1565
2/23/2018 17:46:30	R1801453-003SD	K (766.491 nm)	24.4771 (ppm)	0.36	24.4771 (ppm)	90045.1608
2/23/2018 17:46:30	R1801453-003SD	Mg (279.078 nm)	65.4875 o (ppm)	0.36	65.4875 (ppm)	135228.2504
2/23/2018 17:46:30	R1801453-003SD	Mn (257.610 nm)	4.1131 o (ppm)	0.41	4.1131 (ppm)	1335228.6231
2/23/2018 17:46:30	R1801453-003SD	Mo (202.032 nm)	0.4503 (ppm)	0.31	0.4503 (ppm)	4718.8398
2/23/2018 17:46:30	R1801453-003SD	Na (588.995 nm)	20.9513 (ppm)	0.63	20.9513 (ppm)	1128109.7375
2/23/2018 17:46:30	R1801453-003SD	Ni (230.299 nm)	0.5094 (ppm)	0.29	0.5094 (ppm)	3611.7842
2/23/2018 17:46:30	R1801453-003SD	Pb (220.353 nm)	0.5516 (ppm)	0.31	0.5516 (ppm)	1263.5406
2/23/2018 17:46:30	R1801453-003SD	Sb (217.582 nm)	0.3724 (ppm)	0.08	0.3724 (ppm)	591.1821
2/23/2018 17:46:30	R1801453-003SD	Se (196.026 nm)	0.8754 (ppm)	0.18	0.8754 (ppm)	830.8896
2/23/2018 17:46:30	R1801453-003SD	Sn (189.925 nm)	4.4574 (ppm)	0.42	4.4574 (ppm)	5492.6943
2/23/2018 17:46:30	R1801453-003SD	Sr (216.596 nm)	1.9444 (ppm)	0.57	1.9444 (ppm)	26923.8386
2/23/2018 17:46:30	R1801453-003SD	Ti (336.122 nm)	1.3194 (ppm)	0.17	1.3194 (ppm)	295647.0352
2/23/2018 17:46:30	R1801453-003SD	Tl (351.923 nm)	1.7763 (ppm)	0.12	1.7763 (ppm)	5342.1751
2/23/2018 17:46:30	R1801453-003SD	V (292.401 nm)	0.6192 (ppm)	0.30	0.6192 (ppm)	23781.1624
2/23/2018 17:46:30	R1801453-003SD	Y (360.074 nm)	0.99 (Ratio)	0.69	0.99 (Ratio)	975281.00
2/23/2018 17:46:30	R1801453-003SD	Y_R (360.074 nm)	0.99 (Ratio)	0.69	0.99 (Ratio)	976711.87
2/23/2018 17:46:30	R1801453-003SD	Zn (213.857 nm)	2.0584 (ppm)	0.61	2.0584 (ppm)	62155.3278
2/23/2018 17:49:51	R1801453-003A	Ag (328.068 nm)	-0.0004 u (ppm)	31.88	-0.0004 (ppm)	-145.7017
2/23/2018 17:49:51	R1801453-003A	Al (394.401 nm)	72.4451 o (ppm)	0.23	72.4451 (ppm)	1048136.9715
2/23/2018 17:49:51	R1801453-003A	As (188.980 nm)	0.0275 (ppm)	8.60	0.0275 (ppm)	23.1052
2/23/2018 17:49:51	R1801453-003A	B (249.772 nm)	0.0747 (ppm)	0.23	0.0747 (ppm)	2359.1378
2/23/2018 17:49:51	R1801453-003A	Ba (230.424 nm)	0.3777 (ppm)	0.32	0.3777 (ppm)	13205.3456
2/23/2018 17:49:51	R1801453-003A	Be (313.107 nm)	0.0035 (ppm)	0.44	0.0035 (ppm)	4735.8587
2/23/2018 17:49:51	R1801453-003A	Ca (227.547 nm)	93.9468 o (ppm)	0.25	93.9468 (ppm)	6573.9500
2/23/2018 17:49:51	R1801453-003A	Cd (214.439 nm)	0.0062 (ppm)	2.14	0.0062 (ppm)	148.8824
2/23/2018 17:49:51	R1801453-003A	Co (230.786 nm)	0.0422 (ppm)	0.77	0.0422 (ppm)	444.0082
2/23/2018 17:49:51	R1801453-003A	Cr (267.716 nm)	0.0911 (ppm)	0.39	0.0911 (ppm)	4400.8851
2/23/2018 17:49:51	R1801453-003A	Cu (327.395 nm)	0.0904 (ppm)	0.47	0.0904 (ppm)	6381.3893
2/23/2018 17:49:51	R1801453-003A	Fe (234.350 nm)	117.2388 o (ppm)	0.55	117.2388 (ppm)	1319290.1209
2/23/2018 17:49:51	R1801453-003A	K (766.491 nm)	6.0383 (ppm)	0.73	6.0383 (ppm)	22211.1988
2/23/2018 17:49:51	R1801453-003A	Mg (279.078 nm)	64.2940 o (ppm)	0.30	64.2940 (ppm)	132763.6852
2/23/2018 17:49:51	R1801453-003A	Mn (257.610 nm)	3.8833 o (ppm)	0.45	3.8833 (ppm)	1260642.2578
2/23/2018 17:49:51	R1801453-003A	Mo (202.032 nm)	0.4592 (ppm)	0.18	0.4592 (ppm)	4811.7688
2/23/2018 17:49:51	R1801453-003A	Na (588.995 nm)	2.0877 (ppm)	0.71	2.0877 (ppm)	108278.9208
2/23/2018 17:49:51	R1801453-003A	Ni (230.299 nm)	0.0730 (ppm)	1.06	0.0730 (ppm)	497.4104
2/23/2018 17:49:51	R1801453-003A	Pb (220.353 nm)	0.0813 (ppm)	2.13	0.0813 (ppm)	191.2126
2/23/2018 17:49:51	R1801453-003A	Sb (217.582 nm)	0.4546 (ppm)	0.17	0.4546 (ppm)	721.9640
2/23/2018 17:49:51	R1801453-003A	Se (196.026 nm)	0.9483 (ppm)	0.15	0.9483 (ppm)	900.2455

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:49:51	R1801453-003A	Sn (189.925 nm)	4.6660 (ppm)	0.74	4.6660 (ppm)	5749.6162
2/23/2018 17:49:51	R1801453-003A	Sr (216.596 nm)	2.0969 (ppm)	0.74	2.0969 (ppm)	29035.1604
2/23/2018 17:49:51	R1801453-003A	Ti (336.122 nm)	1.2576 (ppm)	0.10	1.2576 (ppm)	281776.6780
2/23/2018 17:49:51	R1801453-003A	Tl (351.923 nm)	-0.0196 u (ppm)	8.49	-0.0196 (ppm)	-40.6012
2/23/2018 17:49:51	R1801453-003A	V (292.401 nm)	0.1705 (ppm)	0.15	0.1705 (ppm)	6619.0930
2/23/2018 17:49:51	R1801453-003A	Y (360.074 nm)	1.00 (Ratio)	0.81	1.00 (Ratio)	987094.06
2/23/2018 17:49:51	R1801453-003A	Y_R (360.074 nm)	1.00 (Ratio)	0.80	1.00 (Ratio)	988505.38
2/23/2018 17:49:51	R1801453-003A	Zn (213.857 nm)	1.6082 (ppm)	0.53	1.6082 (ppm)	48554.0539
2/23/2018 17:53:12	R1801453-003L	Ag (328.068 nm)	-0.0002 u (ppm)	46.61	-0.0002 (ppm)	-128.5421
2/23/2018 17:53:12	R1801453-003L	Al (394.401 nm)	14.6079 (ppm)	0.69	14.6079 (ppm)	211400.4982
2/23/2018 17:53:12	R1801453-003L	As (188.980 nm)	0.0059 (ppm)	23.63	0.0059 (ppm)	2.9140
2/23/2018 17:53:12	R1801453-003L	B (249.772 nm)	0.0163 (ppm)	0.51	0.0163 (ppm)	584.3920
2/23/2018 17:53:12	R1801453-003L	Ba (230.424 nm)	0.0837 (ppm)	0.80	0.0837 (ppm)	2931.0980
2/23/2018 17:53:12	R1801453-003L	Be (313.107 nm)	0.0008 (ppm)	0.42	0.0008 (ppm)	627.9780
2/23/2018 17:53:12	R1801453-003L	Ca (227.547 nm)	19.5865 (ppm)	0.55	19.5865 (ppm)	1376.4790
2/23/2018 17:53:12	R1801453-003L	Cd (214.439 nm)	0.0014 (ppm)	3.07	0.0014 (ppm)	45.6497
2/23/2018 17:53:12	R1801453-003L	Co (230.786 nm)	0.0099 (ppm)	2.15	0.0099 (ppm)	99.4897
2/23/2018 17:53:12	R1801453-003L	Cr (267.716 nm)	0.0202 (ppm)	0.43	0.0202 (ppm)	970.7568
2/23/2018 17:53:12	R1801453-003L	Cu (327.395 nm)	0.0192 (ppm)	0.69	0.0192 (ppm)	1376.2974
2/23/2018 17:53:12	R1801453-003L	Fe (234.350 nm)	28.0545 o (ppm)	0.67	28.0545 (ppm)	315711.9111
2/23/2018 17:53:12	R1801453-003L	K (766.491 nm)	1.2177 (ppm)	1.07	1.2177 (ppm)	4476.7957
2/23/2018 17:53:12	R1801453-003L	Mg (279.078 nm)	14.1214 (ppm)	0.55	14.1214 (ppm)	29156.6001
2/23/2018 17:53:12	R1801453-003L	Mn (257.610 nm)	0.8826 (ppm)	0.66	0.8826 (ppm)	286512.0827
2/23/2018 17:53:12	R1801453-003L	Mo (202.032 nm)	0.0014 (ppm)	21.25	0.0014 (ppm)	18.5137
2/23/2018 17:53:12	R1801453-003L	Na (588.995 nm)	0.4264 (ppm)	0.96	0.4264 (ppm)	18462.3327
2/23/2018 17:53:12	R1801453-003L	Ni (230.299 nm)	0.0158 (ppm)	8.18	0.0158 (ppm)	89.2348
2/23/2018 17:53:12	R1801453-003L	Pb (220.353 nm)	0.0174 (ppm)	1.88	0.0174 (ppm)	45.3126
2/23/2018 17:53:12	R1801453-003L	Sb (217.582 nm)	0.0020 (ppm)	56.17	0.0020 (ppm)	1.7163
2/23/2018 17:53:12	R1801453-003L	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-2.3262
2/23/2018 17:53:12	R1801453-003L	Sn (189.925 nm)	0.0032 (ppm)	44.92	0.0032 (ppm)	4.9591
2/23/2018 17:53:12	R1801453-003L	Sr (216.596 nm)	0.0228 (ppm)	0.64	0.0228 (ppm)	310.7827
2/23/2018 17:53:12	R1801453-003L	Ti (336.122 nm)	0.1739 (ppm)	0.61	0.1739 (ppm)	38521.1348
2/23/2018 17:53:12	R1801453-003L	Tl (351.923 nm)	-0.0046 u (ppm)	56.56	-0.0046 (ppm)	4.3412
2/23/2018 17:53:12	R1801453-003L	V (292.401 nm)	0.0379 (ppm)	0.66	0.0379 (ppm)	1547.5718
2/23/2018 17:53:12	R1801453-003L	Y (360.074 nm)	1.00 (Ratio)	0.65	1.00 (Ratio)	992810.21
2/23/2018 17:53:12	R1801453-003L	Y_R (360.074 nm)	1.00 (Ratio)	0.65	1.00 (Ratio)	994125.75
2/23/2018 17:53:12	R1801453-003L	Zn (213.857 nm)	0.3598 (ppm)	0.75	0.3598 (ppm)	10839.4342
2/23/2018 17:56:32	R1801453-005	Ag (328.068 nm)	-0.0002 u (ppm)	49.68	-0.0002 (ppm)	-133.7596
2/23/2018 17:56:32	R1801453-005	Al (394.401 nm)	40.0090 (ppm)	0.30	40.0090 (ppm)	578880.3544
2/23/2018 17:56:32	R1801453-005	As (188.980 nm)	0.0327 (ppm)	1.07	0.0327 (ppm)	28.0053
2/23/2018 17:56:32	R1801453-005	B (249.772 nm)	0.0804 (ppm)	0.46	0.0804 (ppm)	2530.7510
2/23/2018 17:56:32	R1801453-005	Ba (230.424 nm)	0.2399 (ppm)	0.98	0.2399 (ppm)	8389.8495
2/23/2018 17:56:32	R1801453-005	Be (313.107 nm)	0.0017 (ppm)	0.76	0.0017 (ppm)	1996.8730
2/23/2018 17:56:32	R1801453-005	Ca (227.547 nm)	570.4808 o (ppm)	0.28	570.4808 (ppm)	39881.6791
2/23/2018 17:56:32	R1801453-005	Cd (214.439 nm)	0.0022 (ppm)	7.33	0.0022 (ppm)	61.6946
2/23/2018 17:56:32	R1801453-005	Co (230.786 nm)	0.0359 (ppm)	0.88	0.0359 (ppm)	377.1041
2/23/2018 17:56:32	R1801453-005	Cr (267.716 nm)	0.0541 (ppm)	0.75	0.0541 (ppm)	2609.9786
2/23/2018 17:56:32	R1801453-005	Cu (327.395 nm)	0.1757 (ppm)	0.47	0.1757 (ppm)	12376.8685
2/23/2018 17:56:32	R1801453-005	Fe (234.350 nm)	98.2199 o (ppm)	0.58	98.2199 (ppm)	1105273.7886
2/23/2018 17:56:32	R1801453-005	K (766.491 nm)	8.1129 (ppm)	0.24	8.1129 (ppm)	29843.4036
2/23/2018 17:56:32	R1801453-005	Mg (279.078 nm)	157.6390 o (ppm)	0.53	157.6390 (ppm)	325522.5502

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 17:56:32	R1801453-005	Mn (257.610 nm)	5.8713 u (ppm)	0.28	5.8713 (ppm)	1905982.6723
2/23/2018 17:56:32	R1801453-005	Mo (202.032 nm)	0.0019 (ppm)	19.08	0.0019 (ppm)	23.8137
2/23/2018 17:56:32	R1801453-005	Na (588.995 nm)	1.1192 (ppm)	0.35	1.1192 (ppm)	55917.7674
2/23/2018 17:56:32	R1801453-005	Ni (230.299 nm)	0.0726 (ppm)	1.92	0.0726 (ppm)	494.8290
2/23/2018 17:56:32	R1801453-005	Pb (220.353 nm)	0.0642 (ppm)	1.78	0.0642 (ppm)	152.0152
2/23/2018 17:56:32	R1801453-005	Sb (217.582 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	-5.6476
2/23/2018 17:56:32	R1801453-005	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-1.3428
2/23/2018 17:56:32	R1801453-005	Sn (189.925 nm)	0.0146 (ppm)	1.43	0.0146 (ppm)	19.0892
2/23/2018 17:56:32	R1801453-005	Sr (216.596 nm)	0.6374 (ppm)	0.57	0.6374 (ppm)	8822.9432
2/23/2018 17:56:32	R1801453-005	Ti (336.122 nm)	0.5255 (ppm)	0.37	0.5255 (ppm)	117437.5654
2/23/2018 17:56:32	R1801453-005	Tl (351.923 nm)	0.0041 (ppm)	27.10	0.0041 (ppm)	30.3549
2/23/2018 17:56:32	R1801453-005	V (292.401 nm)	0.0939 (ppm)	0.35	0.0939 (ppm)	3690.1120
2/23/2018 17:56:32	R1801453-005	Y (360.074 nm)	0.91 (Ratio)	0.76	0.91 (Ratio)	904072.86
2/23/2018 17:56:32	R1801453-005	Y_R (360.074 nm)	0.91 (Ratio)	0.76	0.91 (Ratio)	905407.94
2/23/2018 17:56:32	R1801453-005	Zn (213.857 nm)	0.3777 (ppm)	1.02	0.3777 (ppm)	11378.1171
2/23/2018 17:59:53	Continuing Calibration Verification	Ag (328.068 nm)	0.4727 (ppm)	0.74	0.4727 (ppm)	36590.2982
2/23/2018 17:59:53	Continuing Calibration Verification	Al (394.401 nm)	9.5111 (ppm)	0.90	9.5111 (ppm)	137663.8230
2/23/2018 17:59:53	Continuing Calibration Verification	As (188.980 nm)	0.9447 (ppm)	1.25	0.9447 (ppm)	882.1128
2/23/2018 17:59:53	Continuing Calibration Verification	B (249.772 nm)	2.4119 (ppm)	0.70	2.4119 (ppm)	73416.9452
2/23/2018 17:59:53	Continuing Calibration Verification	Ba (230.424 nm)	10.1353 (ppm)	0.66	10.1353 (ppm)	354276.0523
2/23/2018 17:59:53	Continuing Calibration Verification	Be (313.107 nm)	0.2496 (ppm)	0.89	0.2496 (ppm)	375758.4665
2/23/2018 17:59:53	Continuing Calibration Verification	Ca (227.547 nm)	23.5275 (ppm)	0.91	23.5275 (ppm)	1651.9407
2/23/2018 17:59:53	Continuing Calibration Verification	Cd (214.439 nm)	0.4893 (ppm)	0.69	0.4893 (ppm)	10505.6757
2/23/2018 17:59:53	Continuing Calibration Verification	Co (230.786 nm)	2.5323 (ppm)	0.75	2.5323 (ppm)	26959.2890
2/23/2018 17:59:53	Continuing Calibration Verification	Cr (267.716 nm)	0.5182 (ppm)	0.57	0.5182 (ppm)	25061.5624
2/23/2018 17:59:53	Continuing Calibration Verification	Cu (327.395 nm)	1.2045 (ppm)	0.80	1.2045 (ppm)	84687.4505
2/23/2018 17:59:53	Continuing Calibration Verification	Fe (234.350 nm)	5.0079 (ppm)	0.66	5.0079 (ppm)	56371.9904
2/23/2018 17:59:53	Continuing Calibration Verification	K (766.491 nm)	24.3017 (ppm)	1.09	24.3017 (ppm)	89399.8665
2/23/2018 17:59:53	Continuing Calibration Verification	Mg (279.078 nm)	24.5065 (ppm)	0.72	24.5065 (ppm)	50601.8656
2/23/2018 17:59:53	Continuing Calibration Verification	Mn (257.610 nm)	0.7589 (ppm)	0.60	0.7589 (ppm)	246375.4829
2/23/2018 17:59:53	Continuing Calibration Verification	Mo (202.032 nm)	2.3976 (ppm)	0.57	2.3976 (ppm)	25109.7382
2/23/2018 17:59:53	Continuing Calibration Verification	Na (588.995 nm)	24.6638 (ppm)	1.28	24.6638 (ppm)	1328824.6471
2/23/2018 17:59:53	Continuing Calibration Verification	Ni (230.299 nm)	2.0143 (ppm)	0.64	2.0143 (ppm)	14349.8048
2/23/2018 17:59:53	Continuing Calibration Verification	Pb (220.353 nm)	0.4911 (ppm)	0.80	0.4911 (ppm)	1125.5689
2/23/2018 17:59:53	Continuing Calibration Verification	Sb (217.582 nm)	4.7869 (ppm)	0.84	4.7869 (ppm)	7616.5686
2/23/2018 17:59:53	Continuing Calibration Verification	Se (196.026 nm)	0.4748 (ppm)	1.88	0.4748 (ppm)	449.7967
2/23/2018 17:59:53	Continuing Calibration Verification	Sn (189.925 nm)	4.9359 (ppm)	0.22	4.9359 (ppm)	6082.1908
2/23/2018 17:59:53	Continuing Calibration Verification	Sr (216.596 nm)	2.5156 (ppm)	0.65	2.5156 (ppm)	34834.7433
2/23/2018 17:59:53	Continuing Calibration Verification	Ti (336.122 nm)	2.4812 (ppm)	1.29	2.4812 (ppm)	556430.0216
2/23/2018 17:59:53	Continuing Calibration Verification	Tl (351.923 nm)	0.9720 (ppm)	0.91	0.9720 (ppm)	2931.5210
2/23/2018 17:59:53	Continuing Calibration Verification	V (292.401 nm)	2.4748 (ppm)	0.67	2.4748 (ppm)	94752.0519
2/23/2018 17:59:53	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	1.24	0.97 (Ratio)	959097.31
2/23/2018 17:59:53	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	1.24	0.97 (Ratio)	960435.98
2/23/2018 17:59:53	Continuing Calibration Verification	Zn (213.857 nm)	0.9767 (ppm)	0.66	0.9767 (ppm)	29475.2018
2/23/2018 18:03:14	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	37.21	-0.0001 (ppm)	-120.1049
2/23/2018 18:03:14	Continuing Calibration Blank	Al (394.401 nm)	0.0026 (ppm)	6.87	0.0026 (ppm)	103.9407
2/23/2018 18:03:14	Continuing Calibration Blank	As (188.980 nm)	0.0027 (ppm)	60.18	0.0027 (ppm)	-0.0668
2/23/2018 18:03:14	Continuing Calibration Blank	B (249.772 nm)	0.0016 (ppm)	18.14	0.0016 (ppm)	135.5558
2/23/2018 18:03:14	Continuing Calibration Blank	Ba (230.424 nm)	0.0011 (ppm)	2.19	0.0011 (ppm)	43.7605
2/23/2018 18:03:14	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	8.67	0.0000 (ppm)	-509.1867
2/23/2018 18:03:14	Continuing Calibration Blank	Ca (227.547 nm)	0.0035 u (ppm)	> 100.00	0.0035 (ppm)	7.7061

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:03:14	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.3393
2/23/2018 18:03:14	Continuing Calibration Blank	Co (230.786 nm)	0.0001 (ppm)	36.06	0.0001 (ppm)	-4.0872
2/23/2018 18:03:14	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-7.4562
2/23/2018 18:03:14	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	34.4266
2/23/2018 18:03:14	Continuing Calibration Blank	Fe (234.350 nm)	0.0018 (ppm)	17.08	0.0018 (ppm)	38.9694
2/23/2018 18:03:14	Continuing Calibration Blank	K (766.491 nm)	0.0297 (ppm)	10.76	0.0297 (ppm)	106.2609
2/23/2018 18:03:14	Continuing Calibration Blank	Mg (279.078 nm)	0.0031 (ppm)	42.10	0.0031 (ppm)	2.0443
2/23/2018 18:03:14	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	6.77	0.0001 (ppm)	37.9209
2/23/2018 18:03:14	Continuing Calibration Blank	Mo (202.032 nm)	0.0024 (ppm)	12.36	0.0024 (ppm)	28.4374
2/23/2018 18:03:14	Continuing Calibration Blank	Na (588.995 nm)	0.0055 (ppm)	32.91	0.0055 (ppm)	-4297.3551
2/23/2018 18:03:14	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-21.0627
2/23/2018 18:03:14	Continuing Calibration Blank	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.8772
2/23/2018 18:03:14	Continuing Calibration Blank	Sb (217.582 nm)	0.0035 (ppm)	8.42	0.0035 (ppm)	4.0937
2/23/2018 18:03:14	Continuing Calibration Blank	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.7794
2/23/2018 18:03:14	Continuing Calibration Blank	Sn (189.925 nm)	0.0006 (ppm)	26.77	0.0006 (ppm)	1.7488
2/23/2018 18:03:14	Continuing Calibration Blank	Sr (216.596 nm)	0.0003 (ppm)	57.60	0.0003 (ppm)	-0.0379
2/23/2018 18:03:14	Continuing Calibration Blank	Ti (336.122 nm)	0.0010 (ppm)	1.56	0.0010 (ppm)	-296.0182
2/23/2018 18:03:14	Continuing Calibration Blank	Tl (351.923 nm)	0.0009 (ppm)	55.15	0.0009 (ppm)	20.8022
2/23/2018 18:03:14	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	57.68	0.0004 (ppm)	114.2968
2/23/2018 18:03:14	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.48	1.02 (Ratio)	1007153.79
2/23/2018 18:03:14	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.48	1.02 (Ratio)	1008463.93
2/23/2018 18:03:14	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	74.25	0.0001 (ppm)	-29.0454
2/23/2018 18:06:34	R1801453-006	Ag (328.068 nm)	0.0011 (ppm)	6.41	0.0011 (ppm)	-34.0970
2/23/2018 18:06:34	R1801453-006	Al (394.401 nm)	65.7080 o (ppm)	0.24	65.7080 (ppm)	950670.1615
2/23/2018 18:06:34	R1801453-006	As (188.980 nm)	0.0409 (ppm)	3.58	0.0409 (ppm)	35.7061
2/23/2018 18:06:34	R1801453-006	B (249.772 nm)	0.0745 (ppm)	0.57	0.0745 (ppm)	2350.9806
2/23/2018 18:06:34	R1801453-006	Ba (230.424 nm)	0.6415 (ppm)	0.53	0.6415 (ppm)	22427.9418
2/23/2018 18:06:34	R1801453-006	Be (313.107 nm)	0.0026 (ppm)	0.45	0.0026 (ppm)	3332.2995
2/23/2018 18:06:34	R1801453-006	Ca (227.547 nm)	350.3535 o (ppm)	0.33	350.3535 (ppm)	24495.7046
2/23/2018 18:06:34	R1801453-006	Cd (214.439 nm)	0.0042 (ppm)	2.04	0.0042 (ppm)	106.0188
2/23/2018 18:06:34	R1801453-006	Co (230.786 nm)	0.0283 (ppm)	2.58	0.0283 (ppm)	295.7696
2/23/2018 18:06:34	R1801453-006	Cr (267.716 nm)	0.0831 (ppm)	0.29	0.0831 (ppm)	4016.5515
2/23/2018 18:06:34	R1801453-006	Cu (327.395 nm)	0.1503 (ppm)	0.37	0.1503 (ppm)	10589.9122
2/23/2018 18:06:34	R1801453-006	Fe (234.350 nm)	91.5697 o (ppm)	0.28	91.5697 (ppm)	1030439.3709
2/23/2018 18:06:34	R1801453-006	K (766.491 nm)	7.2177 (ppm)	0.57	7.2177 (ppm)	26549.7706
2/23/2018 18:06:34	R1801453-006	Mg (279.078 nm)	171.7199 o (ppm)	0.35	171.7199 (ppm)	354599.6901
2/23/2018 18:06:34	R1801453-006	Mn (257.610 nm)	3.3391 o (ppm)	0.62	3.3391 (ppm)	1083952.5224
2/23/2018 18:06:34	R1801453-006	Mo (202.032 nm)	0.0062 (ppm)	1.17	0.0062 (ppm)	68.8467
2/23/2018 18:06:34	R1801453-006	Na (588.995 nm)	2.3918 (ppm)	0.72	2.3918 (ppm)	124717.0725
2/23/2018 18:06:34	R1801453-006	Ni (230.299 nm)	0.0577 (ppm)	1.08	0.0577 (ppm)	388.1409
2/23/2018 18:06:34	R1801453-006	Pb (220.353 nm)	0.7661 (ppm)	0.35	0.7661 (ppm)	1752.7385
2/23/2018 18:06:34	R1801453-006	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.6022
2/23/2018 18:06:34	R1801453-006	Se (196.026 nm)	0.0036 u (ppm)	> 100.00	0.0036 (ppm)	1.5375
2/23/2018 18:06:34	R1801453-006	Sn (189.925 nm)	0.0677 (ppm)	3.95	0.0677 (ppm)	84.4202
2/23/2018 18:06:34	R1801453-006	Sr (216.596 nm)	0.4182 (ppm)	0.47	0.4182 (ppm)	5787.2030
2/23/2018 18:06:34	R1801453-006	Ti (336.122 nm)	0.8820 (ppm)	0.16	0.8820 (ppm)	197465.4331
2/23/2018 18:06:34	R1801453-006	Tl (351.923 nm)	-0.0041 u (ppm)	83.98	-0.0041 (ppm)	5.9236
2/23/2018 18:06:34	R1801453-006	V (292.401 nm)	0.1407 (ppm)	0.20	0.1407 (ppm)	5481.1482
2/23/2018 18:06:34	R1801453-006	Y (360.074 nm)	0.93 (Ratio)	0.97	0.93 (Ratio)	924145.08
2/23/2018 18:06:34	R1801453-006	Y_R (360.074 nm)	0.93 (Ratio)	0.97	0.93 (Ratio)	925526.36
2/23/2018 18:06:34	R1801453-006	Zn (213.857 nm)	1.5080 (ppm)	0.03	1.5080 (ppm)	45525.8398



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:09:55	R1801453-007	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-115.6947
2/23/2018 18:09:55	R1801453-007	Al (394.401 nm)	85.8264 o (ppm)	0.20	85.8264 (ppm)	1241725.5242
2/23/2018 18:09:55	R1801453-007	As (188.980 nm)	0.0346 (ppm)	7.16	0.0346 (ppm)	29.7668
2/23/2018 18:09:55	R1801453-007	B (249.772 nm)	0.0818 (ppm)	0.29	0.0818 (ppm)	2573.6868
2/23/2018 18:09:55	R1801453-007	Ba (230.424 nm)	0.3928 (ppm)	0.29	0.3928 (ppm)	13733.5343
2/23/2018 18:09:55	R1801453-007	Be (313.107 nm)	0.0036 (ppm)	0.04	0.0036 (ppm)	4920.2829
2/23/2018 18:09:55	R1801453-007	Ca (227.547 nm)	219.5352 o (ppm)	0.23	219.5352 (ppm)	15352.0512
2/23/2018 18:09:55	R1801453-007	Cd (214.439 nm)	0.0057 (ppm)	2.30	0.0057 (ppm)	137.7497
2/23/2018 18:09:55	R1801453-007	Co (230.786 nm)	0.0282 (ppm)	2.21	0.0282 (ppm)	294.6713
2/23/2018 18:09:55	R1801453-007	Cr (267.716 nm)	0.1035 (ppm)	0.22	0.1035 (ppm)	5001.4888
2/23/2018 18:09:55	R1801453-007	Cu (327.395 nm)	0.1025 (ppm)	0.80	0.1025 (ppm)	7229.9822
2/23/2018 18:09:55	R1801453-007	Fe (234.350 nm)	116.9745 o (ppm)	0.17	116.9745 (ppm)	1316316.5904
2/23/2018 18:09:55	R1801453-007	K (766.491 nm)	8.6967 (ppm)	0.44	8.6967 (ppm)	31990.9206
2/23/2018 18:09:55	R1801453-007	Mg (279.078 nm)	129.4867 o (ppm)	0.28	129.4867 (ppm)	267387.5396
2/23/2018 18:09:55	R1801453-007	Mn (257.610 nm)	3.8148 o (ppm)	0.46	3.8148 (ppm)	1238378.8543
2/23/2018 18:09:55	R1801453-007	Mo (202.032 nm)	0.0073 (ppm)	3.65	0.0073 (ppm)	80.5363
2/23/2018 18:09:55	R1801453-007	Na (588.995 nm)	2.8260 (ppm)	0.65	2.8260 (ppm)	148191.7740
2/23/2018 18:09:55	R1801453-007	Ni (230.299 nm)	0.0746 (ppm)	0.63	0.0746 (ppm)	509.0253
2/23/2018 18:09:55	R1801453-007	Pb (220.353 nm)	0.2681 (ppm)	0.35	0.2681 (ppm)	616.9944
2/23/2018 18:09:55	R1801453-007	Sb (217.582 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	2.0731
2/23/2018 18:09:55	R1801453-007	Se (196.026 nm)	0.0049 (ppm)	69.48	0.0049 (ppm)	2.7257
2/23/2018 18:09:55	R1801453-007	Sn (189.925 nm)	0.0284 (ppm)	3.32	0.0284 (ppm)	36.0431
2/23/2018 18:09:55	R1801453-007	Sr (216.596 nm)	0.2293 (ppm)	0.26	0.2293 (ppm)	3171.1792
2/23/2018 18:09:55	R1801453-007	Ti (336.122 nm)	1.0873 (ppm)	0.13	1.0873 (ppm)	243551.0718
2/23/2018 18:09:55	R1801453-007	Tl (351.923 nm)	-0.0133 u (ppm)	18.05	-0.0133 (ppm)	-21.5567
2/23/2018 18:09:55	R1801453-007	V (292.401 nm)	0.1583 (ppm)	0.12	0.1583 (ppm)	6154.1013
2/23/2018 18:09:55	R1801453-007	Y (360.074 nm)	0.98 (Ratio)	0.90	0.98 (Ratio)	971946.30
2/23/2018 18:09:55	R1801453-007	Y_R (360.074 nm)	0.98 (Ratio)	0.89	0.98 (Ratio)	973397.00
2/23/2018 18:09:55	R1801453-007	Zn (213.857 nm)	3.9657 o (ppm)	0.97	3.9657 (ppm)	119774.5112
2/23/2018 18:13:16	R1801453-008	Ag (328.068 nm)	-0.0003 u (ppm)	29.92	-0.0003 (ppm)	-142.4848
2/23/2018 18:13:16	R1801453-008	Al (394.401 nm)	117.7270 o (ppm)	3.32	117.7270 (ppm)	1703234.7025
2/23/2018 18:13:16	R1801453-008	As (188.980 nm)	0.0466 (ppm)	9.04	0.0466 (ppm)	41.0136
2/23/2018 18:13:16	R1801453-008	B (249.772 nm)	0.1202 (ppm)	3.21	0.1202 (ppm)	3740.9437
2/23/2018 18:13:16	R1801453-008	Ba (230.424 nm)	0.8696 (ppm)	3.13	0.8696 (ppm)	30399.2003
2/23/2018 18:13:16	R1801453-008	Be (313.107 nm)	0.0058 (ppm)	3.02	0.0058 (ppm)	8135.5319
2/23/2018 18:13:16	R1801453-008	Ca (227.547 nm)	65.5742 o (ppm)	3.15	65.5742 (ppm)	4590.8244
2/23/2018 18:13:16	R1801453-008	Cd (214.439 nm)	0.0034 (ppm)	4.14	0.0034 (ppm)	88.2009
2/23/2018 18:13:16	R1801453-008	Co (230.786 nm)	0.0786 (ppm)	2.76	0.0786 (ppm)	831.5222
2/23/2018 18:13:16	R1801453-008	Cr (267.716 nm)	0.1673 (ppm)	3.31	0.1673 (ppm)	8089.0716
2/23/2018 18:13:16	R1801453-008	Cu (327.395 nm)	0.1833 (ppm)	3.38	0.1833 (ppm)	12911.4183
2/23/2018 18:13:16	R1801453-008	Fe (234.350 nm)	185.8105 o (ppm)	3.01	185.8105 (ppm)	2090918.2100
2/23/2018 18:13:16	R1801453-008	K (766.491 nm)	12.3177 (ppm)	3.18	12.3177 (ppm)	45312.3079
2/23/2018 18:13:16	R1801453-008	Mg (279.078 nm)	52.6222 (ppm)	3.23	52.6222 (ppm)	108661.2114
2/23/2018 18:13:16	R1801453-008	Mn (257.610 nm)	2.3132 o (ppm)	3.09	2.3132 (ppm)	750941.2518
2/23/2018 18:13:16	R1801453-008	Mo (202.032 nm)	0.0042 (ppm)	7.20	0.0042 (ppm)	47.7457
2/23/2018 18:13:16	R1801453-008	Na (588.995 nm)	5.4207 (ppm)	3.30	5.4207 (ppm)	288472.4684
2/23/2018 18:13:16	R1801453-008	Ni (230.299 nm)	0.1722 (ppm)	3.49	0.1722 (ppm)	1205.7498
2/23/2018 18:13:16	R1801453-008	Pb (220.353 nm)	0.1983 (ppm)	4.65	0.1983 (ppm)	457.9158
2/23/2018 18:13:16	R1801453-008	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.0473
2/23/2018 18:13:16	R1801453-008	Se (196.026 nm)	0.0040 (ppm)	52.16	0.0040 (ppm)	1.9220
2/23/2018 18:13:16	R1801453-008	Sn (189.925 nm)	0.0136 (ppm)	3.34	0.0136 (ppm)	17.8527

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:13:16	R1801453-008	Sr (216.596 nm)	0.2345 (ppm)	2.99	0.2345 (ppm)	3243.3059
2/23/2018 18:13:16	R1801453-008	Ti (336.122 nm)	1.5367 (ppm)	3.16	1.5367 (ppm)	344424.8216
2/23/2018 18:13:16	R1801453-008	Ti (351.923 nm)	-0.0220 u (ppm)	5.40	-0.0220 (ppm)	-47.8448
2/23/2018 18:13:16	R1801453-008	V (292.401 nm)	0.2506 (ppm)	3.33	0.2506 (ppm)	9584.6173
2/23/2018 18:13:16	R1801453-008	Y (360.074 nm)	1.01 (Ratio)	2.69	1.01 (Ratio)	997687.87
2/23/2018 18:13:16	R1801453-008	Y_R (360.074 nm)	1.01 (Ratio)	2.69	1.01 (Ratio)	999169.35
2/23/2018 18:13:16	R1801453-008	Zn (213.857 nm)	0.4799 (ppm)	2.74	0.4799 (ppm)	14467.5455
2/23/2018 18:16:37	R1801453-009	Ag (328.068 nm)	0.0009 (ppm)	7.38	0.0009 (ppm)	-43.0371
2/23/2018 18:16:37	R1801453-009	Al (394.401 nm)	54.5730 o (ppm)	1.06	54.5730 (ppm)	789579.0038
2/23/2018 18:16:37	R1801453-009	As (188.980 nm)	0.0356 (ppm)	8.79	0.0356 (ppm)	30.7199
2/23/2018 18:16:37	R1801453-009	B (249.772 nm)	0.0935 (ppm)	1.33	0.0935 (ppm)	2930.5411
2/23/2018 18:16:37	R1801453-009	Ba (230.424 nm)	0.4853 (ppm)	1.71	0.4853 (ppm)	16966.9741
2/23/2018 18:16:37	R1801453-009	Be (313.107 nm)	0.0025 (ppm)	1.31	0.0025 (ppm)	3228.3985
2/23/2018 18:16:37	R1801453-009	Ca (227.547 nm)	430.9460 o (ppm)	1.03	430.9460 (ppm)	30128.7817
2/23/2018 18:16:37	R1801453-009	Cd (214.439 nm)	0.0034 (ppm)	5.20	0.0034 (ppm)	88.8852
2/23/2018 18:16:37	R1801453-009	Co (230.786 nm)	0.0330 (ppm)	1.94	0.0330 (ppm)	345.3547
2/23/2018 18:16:37	R1801453-009	Cr (267.716 nm)	0.0852 (ppm)	1.12	0.0852 (ppm)	4115.0684
2/23/2018 18:16:37	R1801453-009	Cu (327.395 nm)	0.1573 (ppm)	0.85	0.1573 (ppm)	11086.1795
2/23/2018 18:16:37	R1801453-009	Fe (234.350 nm)	100.1871 o (ppm)	1.38	100.1871 (ppm)	1127410.0634
2/23/2018 18:16:37	R1801453-009	K (766.491 nm)	9.4531 (ppm)	0.95	9.4531 (ppm)	34773.8313
2/23/2018 18:16:37	R1801453-009	Mg (279.078 nm)	145.1863 o (ppm)	1.32	145.1863 (ppm)	299807.4155
2/23/2018 18:16:37	R1801453-009	Mn (257.610 nm)	3.1063 o (ppm)	1.21	3.1063 (ppm)	1008380.1719
2/23/2018 18:16:37	R1801453-009	Mo (202.032 nm)	0.0039 (ppm)	12.64	0.0039 (ppm)	44.8889
2/23/2018 18:16:37	R1801453-009	Na (588.995 nm)	2.4572 (ppm)	0.83	2.4572 (ppm)	128254.9530
2/23/2018 18:16:37	R1801453-009	Ni (230.299 nm)	0.0740 (ppm)	1.43	0.0740 (ppm)	504.5550
2/23/2018 18:16:37	R1801453-009	Pb (220.353 nm)	1.7691 o (ppm)	1.15	1.7691 (ppm)	4039.7889
2/23/2018 18:16:37	R1801453-009	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.1276
2/23/2018 18:16:37	R1801453-009	Se (196.026 nm)	0.0043 (ppm)	54.44	0.0043 (ppm)	2.2039
2/23/2018 18:16:37	R1801453-009	Sn (189.925 nm)	0.0319 (ppm)	10.81	0.0319 (ppm)	40.3232
2/23/2018 18:16:37	R1801453-009	Sr (216.596 nm)	0.5644 (ppm)	0.76	0.5644 (ppm)	7811.2818
2/23/2018 18:16:37	R1801453-009	Ti (336.122 nm)	0.9434 (ppm)	1.25	0.9434 (ppm)	211235.5225
2/23/2018 18:16:37	R1801453-009	Ti (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	15.3362
2/23/2018 18:16:37	R1801453-009	V (292.401 nm)	0.1369 (ppm)	1.28	0.1369 (ppm)	5334.3707
2/23/2018 18:16:37	R1801453-009	Y (360.074 nm)	0.93 (Ratio)	0.58	0.93 (Ratio)	921653.50
2/23/2018 18:16:37	R1801453-009	Y_R (360.074 nm)	0.93 (Ratio)	0.58	0.93 (Ratio)	923022.76
2/23/2018 18:16:37	R1801453-009	Zn (213.857 nm)	0.6918 (ppm)	1.91	0.6918 (ppm)	20869.3507
2/23/2018 18:19:59	R1801453-010	Ag (328.068 nm)	0.0010 (ppm)	16.26	0.0010 (ppm)	-42.0422
2/23/2018 18:19:59	R1801453-010	Al (394.401 nm)	47.5370 o (ppm)	1.07	47.5370 (ppm)	687788.0015
2/23/2018 18:19:59	R1801453-010	As (188.980 nm)	0.0353 (ppm)	4.16	0.0353 (ppm)	30.4572
2/23/2018 18:19:59	R1801453-010	B (249.772 nm)	0.0805 (ppm)	1.46	0.0805 (ppm)	2534.3907
2/23/2018 18:19:59	R1801453-010	Ba (230.424 nm)	1.3397 (ppm)	0.56	1.3397 (ppm)	46832.5603
2/23/2018 18:19:59	R1801453-010	Be (313.107 nm)	0.0022 (ppm)	1.17	0.0022 (ppm)	2667.8940
2/23/2018 18:19:59	R1801453-010	Ca (227.547 nm)	301.3467 o (ppm)	0.96	301.3467 (ppm)	21070.3300
2/23/2018 18:19:59	R1801453-010	Cd (214.439 nm)	0.0038 (ppm)	3.91	0.0038 (ppm)	96.4584
2/23/2018 18:19:59	R1801453-010	Co (230.786 nm)	0.0300 (ppm)	2.59	0.0300 (ppm)	313.7588
2/23/2018 18:19:59	R1801453-010	Cr (267.716 nm)	0.0774 (ppm)	1.25	0.0774 (ppm)	3740.7246
2/23/2018 18:19:59	R1801453-010	Cu (327.395 nm)	0.1632 (ppm)	1.51	0.1632 (ppm)	11496.6417
2/23/2018 18:19:59	R1801453-010	Fe (234.350 nm)	88.2209 o (ppm)	1.25	88.2209 (ppm)	992756.2227
2/23/2018 18:19:59	R1801453-010	K (766.491 nm)	7.1279 (ppm)	0.75	7.1279 (ppm)	26219.7150
2/23/2018 18:19:59	R1801453-010	Mg (279.078 nm)	104.4268 o (ppm)	1.19	104.4268 (ppm)	215638.4944
2/23/2018 18:19:59	R1801453-010	Mn (257.610 nm)	2.8434 o (ppm)	1.12	2.8434 (ppm)	923065.8909

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:19:59	R1801453-010	Mo (202.032 nm)	0.0035 (ppm)	13.07	0.0035 (ppm)	40.2683
2/23/2018 18:19:59	R1801453-010	Na (588.995 nm)	1.8348 (ppm)	0.70	1.8348 (ppm)	94604.6433
2/23/2018 18:19:59	R1801453-010	Ni (230.299 nm)	0.0675 (ppm)	1.04	0.0675 (ppm)	458.7068
2/23/2018 18:19:59	R1801453-010	Pb (220.353 nm)	0.7992 (ppm)	1.26	0.7992 (ppm)	1828.2440
2/23/2018 18:19:59	R1801453-010	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	0.2113
2/23/2018 18:19:59	R1801453-010	Se (196.026 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-0.3480
2/23/2018 18:19:59	R1801453-010	Sn (189.925 nm)	0.0591 (ppm)	2.96	0.0591 (ppm)	73.8921
2/23/2018 18:19:59	R1801453-010	Sr (216.596 nm)	0.6307 (ppm)	2.06	0.6307 (ppm)	8730.5604
2/23/2018 18:19:59	R1801453-010	Ti (336.122 nm)	0.9402 (ppm)	1.13	0.9402 (ppm)	210527.8675
2/23/2018 18:19:59	R1801453-010	Tl (351.923 nm)	-0.0033 u (ppm)	21.34	-0.0033 (ppm)	8.2408
2/23/2018 18:19:59	R1801453-010	V (292.401 nm)	0.1343 (ppm)	1.31	0.1343 (ppm)	5235.0913
2/23/2018 18:19:59	R1801453-010	Y (360.074 nm)	0.95 (Ratio)	0.48	0.95 (Ratio)	939280.92
2/23/2018 18:19:59	R1801453-010	Y_R (360.074 nm)	0.95 (Ratio)	0.48	0.95 (Ratio)	940621.19
2/23/2018 18:19:59	R1801453-010	Zn (213.857 nm)	1.4655 (ppm)	1.59	1.4655 (ppm)	44243.7943
2/23/2018 18:23:21	R1801453-011	Ag (328.068 nm)	0.0019 (ppm)	5.13	0.0019 (ppm)	32.6318
2/23/2018 18:23:21	R1801453-011	Al (394.401 nm)	51.7977 o (ppm)	0.28	51.7977 (ppm)	749429.0559
2/23/2018 18:23:21	R1801453-011	As (188.980 nm)	0.0921 (ppm)	4.52	0.0921 (ppm)	83.6593
2/23/2018 18:23:21	R1801453-011	B (249.772 nm)	0.1017 (ppm)	0.35	0.1017 (ppm)	3179.5293
2/23/2018 18:23:21	R1801453-011	Ba (230.424 nm)	2.3546 (ppm)	0.91	2.3546 (ppm)	82308.6959
2/23/2018 18:23:21	R1801453-011	Be (313.107 nm)	0.0023 (ppm)	0.40	0.0023 (ppm)	2966.6099
2/23/2018 18:23:21	R1801453-011	Ca (227.547 nm)	491.0441 o (ppm)	0.37	491.0441 (ppm)	34329.3882
2/23/2018 18:23:21	R1801453-011	Cd (214.439 nm)	0.0062 (ppm)	0.63	0.0062 (ppm)	148.6950
2/23/2018 18:23:21	R1801453-011	Co (230.786 nm)	0.0319 (ppm)	0.75	0.0319 (ppm)	333.5726
2/23/2018 18:23:21	R1801453-011	Cr (267.716 nm)	0.0844 (ppm)	0.43	0.0844 (ppm)	4078.1025
2/23/2018 18:23:21	R1801453-011	Cu (327.395 nm)	0.3785 (ppm)	0.50	0.3785 (ppm)	26634.5771
2/23/2018 18:23:21	R1801453-011	Fe (234.350 nm)	100.3586 o (ppm)	0.49	100.3586 (ppm)	1129340.3838
2/23/2018 18:23:21	R1801453-011	K (766.491 nm)	8.2416 (ppm)	0.82	8.2416 (ppm)	30316.6693
2/23/2018 18:23:21	R1801453-011	Mg (279.078 nm)	121.5783 o (ppm)	0.33	121.5783 (ppm)	251056.5575
2/23/2018 18:23:21	R1801453-011	Mn (257.610 nm)	2.7146 o (ppm)	0.36	2.7146 (ppm)	881236.0732
2/23/2018 18:23:21	R1801453-011	Mo (202.032 nm)	0.0060 (ppm)	4.24	0.0060 (ppm)	66.7775
2/23/2018 18:23:21	R1801453-011	Na (588.995 nm)	2.0284 (ppm)	0.92	2.0284 (ppm)	105073.1353
2/23/2018 18:23:21	R1801453-011	Ni (230.299 nm)	0.0765 (ppm)	1.02	0.0765 (ppm)	522.6501
2/23/2018 18:23:21	R1801453-011	Pb (220.353 nm)	4.7567 o (ppm)	0.47	4.7567 (ppm)	10852.6526
2/23/2018 18:23:21	R1801453-011	Sb (217.582 nm)	0.0049 (ppm)	52.38	0.0049 (ppm)	6.2297
2/23/2018 18:23:21	R1801453-011	Se (196.026 nm)	0.0034 (ppm)	65.55	0.0034 (ppm)	1.3099
2/23/2018 18:23:21	R1801453-011	Sn (189.925 nm)	0.0819 (ppm)	2.87	0.0819 (ppm)	101.9911
2/23/2018 18:23:21	R1801453-011	Sr (216.596 nm)	0.9865 (ppm)	1.01	0.9865 (ppm)	13656.9913
2/23/2018 18:23:21	R1801453-011	Ti (336.122 nm)	1.0215 (ppm)	0.07	1.0215 (ppm)	228777.8641
2/23/2018 18:23:21	R1801453-011	Tl (351.923 nm)	0.0026 (ppm)	32.92	0.0026 (ppm)	26.0129
2/23/2018 18:23:21	R1801453-011	V (292.401 nm)	0.1229 (ppm)	0.29	0.1229 (ppm)	4800.1403
2/23/2018 18:23:21	R1801453-011	Y (360.074 nm)	0.92 (Ratio)	0.84	0.92 (Ratio)	911979.69
2/23/2018 18:23:21	R1801453-011	Y_R (360.074 nm)	0.92 (Ratio)	0.83	0.92 (Ratio)	913328.73
2/23/2018 18:23:21	R1801453-011	Zn (213.857 nm)	2.4699 o (ppm)	0.70	2.4699 (ppm)	74585.4753
2/23/2018 18:26:42	R1801453-012	Ag (328.068 nm)	0.0030 (ppm)	5.14	0.0030 (ppm)	118.3836
2/23/2018 18:26:42	R1801453-012	Al (394.401 nm)	56.2784 o (ppm)	2.05	56.2784 (ppm)	814250.7507
2/23/2018 18:26:42	R1801453-012	As (188.980 nm)	0.0545 (ppm)	0.87	0.0545 (ppm)	48.3733
2/23/2018 18:26:42	R1801453-012	B (249.772 nm)	0.1374 (ppm)	2.61	0.1374 (ppm)	4265.1607
2/23/2018 18:26:42	R1801453-012	Ba (230.424 nm)	0.4845 (ppm)	2.20	0.4845 (ppm)	16940.6927
2/23/2018 18:26:42	R1801453-012	Be (313.107 nm)	0.0033 (ppm)	2.26	0.0033 (ppm)	4389.0115
2/23/2018 18:26:42	R1801453-012	Ca (227.547 nm)	671.1741 o (ppm)	1.99	671.1741 (ppm)	46919.7146
2/23/2018 18:26:42	R1801453-012	Cd (214.439 nm)	0.0033 (ppm)	6.24	0.0033 (ppm)	86.9586

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:26:42	R1801453-012	Co (230.786 nm)	0.0305 (ppm)	2.70	0.0305 (ppm)	318.9702
2/23/2018 18:26:42	R1801453-012	Cr (267.716 nm)	0.0898 (ppm)	2.57	0.0898 (ppm)	4336.9243
2/23/2018 18:26:42	R1801453-012	Cu (327.395 nm)	0.3038 (ppm)	1.00	0.3038 (ppm)	21382.6764
2/23/2018 18:26:42	R1801453-012	Fe (234.350 nm)	105.8207 o (ppm)	2.31	105.8207 (ppm)	1190804.5732
2/23/2018 18:26:42	R1801453-012	K (766.491 nm)	13.7563 (ppm)	1.65	13.7563 (ppm)	50604.5707
2/23/2018 18:26:42	R1801453-012	Mg (279.078 nm)	85.8102 o (ppm)	2.54	85.8102 (ppm)	177195.0151
2/23/2018 18:26:42	R1801453-012	Mn (257.610 nm)	2.4629 o (ppm)	2.41	2.4629 (ppm)	799533.5807
2/23/2018 18:26:42	R1801453-012	Mo (202.032 nm)	0.0030 (ppm)	6.55	0.0030 (ppm)	34.7513
2/23/2018 18:26:42	R1801453-012	Na (588.995 nm)	2.3232 (ppm)	1.45	2.3232 (ppm)	121007.6615
2/23/2018 18:26:42	R1801453-012	Ni (230.299 nm)	0.0789 (ppm)	2.52	0.0789 (ppm)	539.6851
2/23/2018 18:26:42	R1801453-012	Pb (220.353 nm)	0.5540 (ppm)	2.42	0.5540 (ppm)	1268.9877
2/23/2018 18:26:42	R1801453-012	Sb (217.582 nm)	0.0012 (ppm)	26.58	0.0012 (ppm)	0.3384
2/23/2018 18:26:42	R1801453-012	Se (196.026 nm)	0.0026 u (ppm)	96.07	0.0026 (ppm)	0.5429
2/23/2018 18:26:42	R1801453-012	Sn (189.925 nm)	0.0791 (ppm)	3.74	0.0791 (ppm)	98.4621
2/23/2018 18:26:42	R1801453-012	Sr (216.596 nm)	0.7690 (ppm)	3.04	0.7690 (ppm)	10644.8981
2/23/2018 18:26:42	R1801453-012	Ti (336.122 nm)	0.4632 (ppm)	2.21	0.4632 (ppm)	103461.0077
2/23/2018 18:26:42	R1801453-012	Tl (351.923 nm)	0.0069 (ppm)	23.96	0.0069 (ppm)	38.9772
2/23/2018 18:26:42	R1801453-012	V (292.401 nm)	0.1094 (ppm)	2.39	0.1094 (ppm)	4282.9730
2/23/2018 18:26:42	R1801453-012	Y (360.074 nm)	0.92 (Ratio)	1.57	0.92 (Ratio)	913874.24
2/23/2018 18:26:42	R1801453-012	Y_R (360.074 nm)	0.92 (Ratio)	1.57	0.92 (Ratio)	915216.65
2/23/2018 18:26:42	R1801453-012	Zn (213.857 nm)	1.4101 (ppm)	2.05	1.4101 (ppm)	42570.4190
2/23/2018 18:30:03	R1801453-013	Ag (328.068 nm)	0.0017 (ppm)	1.30	0.0017 (ppm)	18.7661
2/23/2018 18:30:03	R1801453-013	Al (394.401 nm)	34.8067 o (ppm)	0.36	34.8067 (ppm)	503617.5364
2/23/2018 18:30:03	R1801453-013	As (188.980 nm)	0.2205 (ppm)	1.01	0.2205 (ppm)	203.8738
2/23/2018 18:30:03	R1801453-013	B (249.772 nm)	0.3272 (ppm)	0.26	0.3272 (ppm)	10036.7076
2/23/2018 18:30:03	R1801453-013	Ba (230.424 nm)	0.4330 (ppm)	0.34	0.4330 (ppm)	15140.5340
2/23/2018 18:30:03	R1801453-013	Be (313.107 nm)	0.0031 (ppm)	0.62	0.0031 (ppm)	4110.0606
2/23/2018 18:30:03	R1801453-013	Ca (227.547 nm)	9.4136 (ppm)	1.28	9.4136 (ppm)	665.4324
2/23/2018 18:30:03	R1801453-013	Cd (214.439 nm)	0.0525 (ppm)	0.89	0.0525 (ppm)	1140.2140
2/23/2018 18:30:03	R1801453-013	Co (230.786 nm)	0.0659 (ppm)	0.68	0.0659 (ppm)	696.2587
2/23/2018 18:30:03	R1801453-013	Cr (267.716 nm)	0.7071 (ppm)	0.13	0.7071 (ppm)	34199.3989
2/23/2018 18:30:03	R1801453-013	Cu (327.395 nm)	11.5132 o (ppm)	0.47	11.5132 (ppm)	809260.3120
2/23/2018 18:30:03	R1801453-013	Fe (234.350 nm)	480.0122 o (ppm)	0.38	480.0122 (ppm)	5401526.8020
2/23/2018 18:30:03	R1801453-013	K (766.491 nm)	3.5809 (ppm)	0.49	3.5809 (ppm)	13170.6044
2/23/2018 18:30:03	R1801453-013	Mg (279.078 nm)	3.0413 (ppm)	0.18	3.0413 (ppm)	6276.0209
2/23/2018 18:30:03	R1801453-013	Mn (257.610 nm)	3.4018 o (ppm)	0.52	3.4018 (ppm)	1104311.1995
2/23/2018 18:30:03	R1801453-013	Mo (202.032 nm)	0.1072 (ppm)	0.40	0.1072 (ppm)	1126.1444
2/23/2018 18:30:03	R1801453-013	Na (588.995 nm)	1.5810 (ppm)	0.83	1.5810 (ppm)	80883.4941
2/23/2018 18:30:03	R1801453-013	Ni (230.299 nm)	0.3438 (ppm)	0.62	0.3438 (ppm)	2429.7697
2/23/2018 18:30:03	R1801453-013	Pb (220.353 nm)	1.8743 o (ppm)	0.30	1.8743 (ppm)	4279.8254
2/23/2018 18:30:03	R1801453-013	Sb (217.582 nm)	0.0071 (ppm)	26.84	0.0071 (ppm)	9.7280
2/23/2018 18:30:03	R1801453-013	Se (196.026 nm)	0.0186 (ppm)	14.90	0.0186 (ppm)	15.8167
2/23/2018 18:30:03	R1801453-013	Sn (189.925 nm)	0.8845 (ppm)	0.22	0.8845 (ppm)	1090.7746
2/23/2018 18:30:03	R1801453-013	Sr (216.596 nm)	0.4665 (ppm)	0.45	0.4665 (ppm)	6456.1529
2/23/2018 18:30:03	R1801453-013	Ti (336.122 nm)	0.5540 (ppm)	0.22	0.5540 (ppm)	123829.7466
2/23/2018 18:30:03	R1801453-013	Tl (351.923 nm)	-0.0291 u (ppm)	11.44	-0.0291 (ppm)	-69.0970
2/23/2018 18:30:03	R1801453-013	V (292.401 nm)	0.5554 (ppm)	0.07	0.5554 (ppm)	21342.0349
2/23/2018 18:30:03	R1801453-013	Y (360.074 nm)	0.97 (Ratio)	0.91	0.97 (Ratio)	961252.67
2/23/2018 18:30:03	R1801453-013	Y_R (360.074 nm)	0.97 (Ratio)	0.91	0.97 (Ratio)	962589.24
2/23/2018 18:30:03	R1801453-013	Zn (213.857 nm)	18.0699 o (ppm)	0.80	18.0699 (ppm)	545873.4317
2/23/2018 18:33:23	R1801453-014	Ag (328.068 nm)	-0.0003 u (ppm)	41.77	-0.0003 (ppm)	-140.6245

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:33:23	R1801453-014	Al (394.401 nm)	37.0739 o (ppm)	3.00	37.0739 (ppm)	536418.5313
2/23/2018 18:33:23	R1801453-014	As (188.980 nm)	0.0225 (ppm)	15.28	0.0225 (ppm)	18.4570
2/23/2018 18:33:23	R1801453-014	B (249.772 nm)	0.0708 (ppm)	1.65	0.0708 (ppm)	2240.9202
2/23/2018 18:33:23	R1801453-014	Ba (230.424 nm)	0.2563 (ppm)	1.91	0.2563 (ppm)	8963.1126
2/23/2018 18:33:23	R1801453-014	Be (313.107 nm)	0.0017 (ppm)	0.98	0.0017 (ppm)	2058.2310
2/23/2018 18:33:23	R1801453-014	Ca (227.547 nm)	275.3353 o (ppm)	2.15	275.3353 (ppm)	19252.2448
2/23/2018 18:33:23	R1801453-014	Cd (214.439 nm)	0.0022 (ppm)	5.45	0.0022 (ppm)	62.0878
2/23/2018 18:33:23	R1801453-014	Co (230.786 nm)	0.0261 (ppm)	2.75	0.0261 (ppm)	272.4764
2/23/2018 18:33:23	R1801453-014	Cr (267.716 nm)	0.0602 (ppm)	1.04	0.0602 (ppm)	2905.9861
2/23/2018 18:33:23	R1801453-014	Cu (327.395 nm)	0.1023 (ppm)	2.01	0.1023 (ppm)	7221.3148
2/23/2018 18:33:23	R1801453-014	Fe (234.350 nm)	82.7654 o (ppm)	1.21	82.7654 (ppm)	931366.2036
2/23/2018 18:33:23	R1801453-014	K (766.491 nm)	7.4951 (ppm)	2.37	7.4951 (ppm)	27570.5826
2/23/2018 18:33:23	R1801453-014	Mg (279.078 nm)	62.9846 o (ppm)	1.46	62.9846 (ppm)	130059.6887
2/23/2018 18:33:23	R1801453-014	Mn (257.610 nm)	2.4560 o (ppm)	1.28	2.4560 (ppm)	797294.2486
2/23/2018 18:33:23	R1801453-014	Mo (202.032 nm)	0.0016 (ppm)	22.94	0.0016 (ppm)	20.1791
2/23/2018 18:33:23	R1801453-014	Na (588.995 nm)	1.0087 (ppm)	2.52	1.0087 (ppm)	49939.9547
2/23/2018 18:33:23	R1801453-014	Ni (230.299 nm)	0.0558 (ppm)	2.83	0.0558 (ppm)	375.0099
2/23/2018 18:33:23	R1801453-014	Pb (220.353 nm)	0.0421 (ppm)	4.34	0.0421 (ppm)	101.8190
2/23/2018 18:33:23	R1801453-014	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.3918
2/23/2018 18:33:23	R1801453-014	Se (196.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-0.6484
2/23/2018 18:33:23	R1801453-014	Sn (189.925 nm)	0.0095 (ppm)	7.56	0.0095 (ppm)	12.7571
2/23/2018 18:33:23	R1801453-014	Sr (216.596 nm)	0.3836 (ppm)	1.01	0.3836 (ppm)	5308.1491
2/23/2018 18:33:23	R1801453-014	Ti (336.122 nm)	0.8018 (ppm)	1.77	0.8018 (ppm)	179456.0461
2/23/2018 18:33:23	R1801453-014	Tl (351.923 nm)	-0.0108 u (ppm)	17.11	-0.0108 (ppm)	-14.2296
2/23/2018 18:33:23	R1801453-014	V (292.401 nm)	0.1037 (ppm)	1.64	0.1037 (ppm)	4065.0890
2/23/2018 18:33:23	R1801453-014	Y (360.074 nm)	0.98 (Ratio)	2.16	0.98 (Ratio)	971053.08
2/23/2018 18:33:23	R1801453-014	Y_R (360.074 nm)	0.98 (Ratio)	2.16	0.98 (Ratio)	972420.63
2/23/2018 18:33:23	R1801453-014	Zn (213.857 nm)	0.4944 (ppm)	1.16	0.4944 (ppm)	14906.1212
2/23/2018 18:36:44	R1801453-015	Ag (328.068 nm)	0.0032 (ppm)	4.28	0.0032 (ppm)	129.7843
2/23/2018 18:36:44	R1801453-015	Al (394.401 nm)	63.8647 o (ppm)	0.26	63.8647 (ppm)	924002.3338
2/23/2018 18:36:44	R1801453-015	As (188.980 nm)	0.0571 (ppm)	5.65	0.0571 (ppm)	50.7991
2/23/2018 18:36:44	R1801453-015	B (249.772 nm)	0.1061 (ppm)	0.21	0.1061 (ppm)	3313.3857
2/23/2018 18:36:44	R1801453-015	Ba (230.424 nm)	1.0429 (ppm)	0.06	1.0429 (ppm)	36457.6743
2/23/2018 18:36:44	R1801453-015	Be (313.107 nm)	0.0033 (ppm)	0.11	0.0033 (ppm)	4444.8976
2/23/2018 18:36:44	R1801453-015	Ca (227.547 nm)	255.2442 o (ppm)	0.34	255.2442 (ppm)	17847.9645
2/23/2018 18:36:44	R1801453-015	Cd (214.439 nm)	0.0071 (ppm)	1.76	0.0071 (ppm)	167.0231
2/23/2018 18:36:44	R1801453-015	Co (230.786 nm)	0.0410 (ppm)	2.05	0.0410 (ppm)	430.8596
2/23/2018 18:36:44	R1801453-015	Cr (267.716 nm)	0.1619 (ppm)	0.36	0.1619 (ppm)	7825.4813
2/23/2018 18:36:44	R1801453-015	Cu (327.395 nm)	0.4784 (ppm)	0.37	0.4784 (ppm)	33650.4724
2/23/2018 18:36:44	R1801453-015	Fe (234.350 nm)	120.6773 o (ppm)	0.24	120.6773 (ppm)	1357983.0296
2/23/2018 18:36:44	R1801453-015	K (766.491 nm)	9.9452 (ppm)	0.68	9.9452 (ppm)	36583.9171
2/23/2018 18:36:44	R1801453-015	Mg (279.078 nm)	105.2869 o (ppm)	0.15	105.2869 (ppm)	217414.7139
2/23/2018 18:36:44	R1801453-015	Mn (257.610 nm)	3.8919 o (ppm)	0.31	3.8919 (ppm)	1263415.8513
2/23/2018 18:36:44	R1801453-015	Mo (202.032 nm)	0.0067 (ppm)	6.88	0.0067 (ppm)	73.8746
2/23/2018 18:36:44	R1801453-015	Na (588.995 nm)	1.8411 (ppm)	0.73	1.8411 (ppm)	94944.7159
2/23/2018 18:36:44	R1801453-015	Ni (230.299 nm)	0.0856 (ppm)	0.89	0.0856 (ppm)	587.5666
2/23/2018 18:36:44	R1801453-015	Pb (220.353 nm)	4.9888 o (ppm)	0.15	4.9888 (ppm)	11381.7819
2/23/2018 18:36:44	R1801453-015	Sb (217.582 nm)	0.0053 (ppm)	34.55	0.0053 (ppm)	6.8910
2/23/2018 18:36:44	R1801453-015	Se (196.026 nm)	0.0097 (ppm)	10.42	0.0097 (ppm)	7.3047
2/23/2018 18:36:44	R1801453-015	Sn (189.925 nm)	0.1343 (ppm)	1.32	0.1343 (ppm)	166.4669
2/23/2018 18:36:44	R1801453-015	Sr (216.596 nm)	0.3503 (ppm)	0.28	0.3503 (ppm)	4846.7026

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:36:44	R1801453-015	Ti (336.122 nm)	0.9440 (ppm)	0.18	0.9440 (ppm)	211370.5971
2/23/2018 18:36:44	R1801453-015	Ti (351.923 nm)	-0.0106 u (ppm)	29.88	-0.0106 (ppm)	-13.5320
2/23/2018 18:36:44	R1801453-015	V (292.401 nm)	0.1690 (ppm)	0.05	0.1690 (ppm)	6563.6513
2/23/2018 18:36:44	R1801453-015	Y (360.074 nm)	0.96 (Ratio)	0.85	0.96 (Ratio)	951190.89
2/23/2018 18:36:44	R1801453-015	Y_R (360.074 nm)	0.96 (Ratio)	0.85	0.96 (Ratio)	952549.57
2/23/2018 18:36:44	R1801453-015	Zn (213.857 nm)	2.9844 o (ppm)	0.21	2.9844 (ppm)	90128.2098
2/23/2018 18:40:04	Continuing Calibration Verification	Ag (328.068 nm)	0.4739 (ppm)	0.12	0.4739 (ppm)	36687.0104
2/23/2018 18:40:04	Continuing Calibration Verification	Al (394.401 nm)	9.4995 (ppm)	0.06	9.4995 (ppm)	137496.7955
2/23/2018 18:40:04	Continuing Calibration Verification	As (188.980 nm)	0.9424 (ppm)	0.35	0.9424 (ppm)	879.9813
2/23/2018 18:40:04	Continuing Calibration Verification	B (249.772 nm)	2.4184 (ppm)	0.13	2.4184 (ppm)	73612.6654
2/23/2018 18:40:04	Continuing Calibration Verification	Ba (230.424 nm)	10.1290 (ppm)	0.40	10.1290 (ppm)	354054.0015
2/23/2018 18:40:04	Continuing Calibration Verification	Be (313.107 nm)	0.2519 (ppm)	0.12	0.2519 (ppm)	379178.2398
2/23/2018 18:40:04	Continuing Calibration Verification	Ca (227.547 nm)	23.4678 (ppm)	0.14	23.4678 (ppm)	1647.7679
2/23/2018 18:40:04	Continuing Calibration Verification	Cd (214.439 nm)	0.4902 (ppm)	0.41	0.4902 (ppm)	10524.2560
2/23/2018 18:40:04	Continuing Calibration Verification	Co (230.786 nm)	2.5342 (ppm)	0.19	2.5342 (ppm)	26979.5593
2/23/2018 18:40:04	Continuing Calibration Verification	Cr (267.716 nm)	0.5198 (ppm)	0.34	0.5198 (ppm)	25140.9209
2/23/2018 18:40:04	Continuing Calibration Verification	Cu (327.395 nm)	1.2116 (ppm)	0.22	1.2116 (ppm)	85185.1594
2/23/2018 18:40:04	Continuing Calibration Verification	Fe (234.350 nm)	5.0162 (ppm)	0.22	5.0162 (ppm)	56465.5745
2/23/2018 18:40:04	Continuing Calibration Verification	K (766.491 nm)	24.3761 (ppm)	0.36	24.3761 (ppm)	89673.3991
2/23/2018 18:40:04	Continuing Calibration Verification	Mg (279.078 nm)	24.5355 (ppm)	0.14	24.5355 (ppm)	50661.8389
2/23/2018 18:40:04	Continuing Calibration Verification	Mn (257.610 nm)	0.7613 (ppm)	0.27	0.7613 (ppm)	247132.7358
2/23/2018 18:40:04	Continuing Calibration Verification	Mo (202.032 nm)	2.4031 (ppm)	0.17	2.4031 (ppm)	25168.0372
2/23/2018 18:40:04	Continuing Calibration Verification	Na (588.995 nm)	24.8543 (ppm)	0.35	24.8543 (ppm)	1339122.7542
2/23/2018 18:40:04	Continuing Calibration Verification	Ni (230.299 nm)	2.0183 (ppm)	0.19	2.0183 (ppm)	14378.1265
2/23/2018 18:40:04	Continuing Calibration Verification	Pb (220.353 nm)	0.4928 (ppm)	0.85	0.4928 (ppm)	1129.4194
2/23/2018 18:40:04	Continuing Calibration Verification	Sb (217.582 nm)	4.7647 (ppm)	0.17	4.7647 (ppm)	7581.2661
2/23/2018 18:40:04	Continuing Calibration Verification	Se (196.026 nm)	0.4706 (ppm)	1.31	0.4706 (ppm)	445.7963
2/23/2018 18:40:04	Continuing Calibration Verification	Sn (189.925 nm)	4.9226 (ppm)	0.57	4.9226 (ppm)	6065.7618
2/23/2018 18:40:04	Continuing Calibration Verification	Sr (216.596 nm)	2.5185 (ppm)	0.43	2.5185 (ppm)	34874.7607
2/23/2018 18:40:04	Continuing Calibration Verification	Ti (336.122 nm)	2.4810 (ppm)	0.47	2.4810 (ppm)	556372.7661
2/23/2018 18:40:04	Continuing Calibration Verification	Ti (351.923 nm)	0.9747 (ppm)	0.12	0.9747 (ppm)	2939.6234
2/23/2018 18:40:04	Continuing Calibration Verification	V (292.401 nm)	2.4835 (ppm)	0.11	2.4835 (ppm)	95082.9798
2/23/2018 18:40:04	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.60	0.97 (Ratio)	960845.64
2/23/2018 18:40:04	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.60	0.97 (Ratio)	962121.44
2/23/2018 18:40:04	Continuing Calibration Verification	Zn (213.857 nm)	0.9768 (ppm)	0.30	0.9768 (ppm)	29478.0396
2/23/2018 18:43:25	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	61.35	-0.0001 (ppm)	-123.2251
2/23/2018 18:43:25	Continuing Calibration Blank	Al (394.401 nm)	0.0036 (ppm)	10.38	0.0036 (ppm)	119.0460
2/23/2018 18:43:25	Continuing Calibration Blank	As (188.980 nm)	0.0011 (ppm)	> 100.00	0.0011 (ppm)	-1.6259
2/23/2018 18:43:25	Continuing Calibration Blank	B (249.772 nm)	0.0013 (ppm)	12.84	0.0013 (ppm)	128.1865
2/23/2018 18:43:25	Continuing Calibration Blank	Ba (230.424 nm)	0.0016 (ppm)	3.42	0.0016 (ppm)	60.8698
2/23/2018 18:43:25	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	13.45	0.0000 (ppm)	-499.3634
2/23/2018 18:43:25	Continuing Calibration Blank	Ca (227.547 nm)	-0.0103 u (ppm)	> 100.00	-0.0103 (ppm)	6.7414
2/23/2018 18:43:25	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.1074
2/23/2018 18:43:25	Continuing Calibration Blank	Co (230.786 nm)	0.0007 (ppm)	52.47	0.0007 (ppm)	1.6138
2/23/2018 18:43:25	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	55.57	0.0001 (ppm)	-1.3298
2/23/2018 18:43:25	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	70.72	0.0002 (ppm)	41.2514
2/23/2018 18:43:25	Continuing Calibration Blank	Fe (234.350 nm)	0.0025 (ppm)	7.58	0.0025 (ppm)	47.3412
2/23/2018 18:43:25	Continuing Calibration Blank	K (766.491 nm)	0.0286 (ppm)	15.50	0.0286 (ppm)	102.2643
2/23/2018 18:43:25	Continuing Calibration Blank	Mg (279.078 nm)	0.0048 (ppm)	14.40	0.0048 (ppm)	5.6574
2/23/2018 18:43:25	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	2.19	0.0001 (ppm)	48.2547
2/23/2018 18:43:25	Continuing Calibration Blank	Mo (202.032 nm)	0.0022 (ppm)	12.14	0.0022 (ppm)	26.9145

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:43:25	Continuing Calibration Blank	Na (588.995 nm)	0.0043 (ppm)	18.46	0.0043 (ppm)	-4358.3596
2/23/2018 18:43:25	Continuing Calibration Blank	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-24.1471
2/23/2018 18:43:25	Continuing Calibration Blank	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.9002
2/23/2018 18:43:25	Continuing Calibration Blank	Sb (217.582 nm)	0.0033 (ppm)	15.60	0.0033 (ppm)	3.7690
2/23/2018 18:43:25	Continuing Calibration Blank	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-0.8869
2/23/2018 18:43:25	Continuing Calibration Blank	Sn (189.925 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	2.1603
2/23/2018 18:43:25	Continuing Calibration Blank	Sr (216.596 nm)	0.0006 (ppm)	28.52	0.0006 (ppm)	3.9135
2/23/2018 18:43:25	Continuing Calibration Blank	Ti (336.122 nm)	0.0013 (ppm)	3.86	0.0013 (ppm)	-237.6256
2/23/2018 18:43:25	Continuing Calibration Blank	Tl (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	18.6145
2/23/2018 18:43:25	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	9.74	0.0004 (ppm)	115.3863
2/23/2018 18:43:25	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.81	1.02 (Ratio)	1006429.09
2/23/2018 18:43:25	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.81	1.02 (Ratio)	1007677.01
2/23/2018 18:43:25	Continuing Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	41.14	0.0002 (ppm)	-25.8150
2/23/2018 18:46:46	R1801453-016	Ag (328.068 nm)	0.0021 (ppm)	1.48	0.0021 (ppm)	47.8256
2/23/2018 18:46:46	R1801453-016	Al (394.401 nm)	44.9193 o (ppm)	0.93	44.9193 (ppm)	649917.6472
2/23/2018 18:46:46	R1801453-016	As (188.980 nm)	0.0551 (ppm)	3.57	0.0551 (ppm)	48.9800
2/23/2018 18:46:46	R1801453-016	B (249.772 nm)	0.1129 (ppm)	0.76	0.1129 (ppm)	3519.2567
2/23/2018 18:46:46	R1801453-016	Ba (230.424 nm)	0.5150 (ppm)	0.56	0.5150 (ppm)	18004.8699
2/23/2018 18:46:46	R1801453-016	Be (313.107 nm)	0.0025 (ppm)	0.72	0.0025 (ppm)	3202.4496
2/23/2018 18:46:46	R1801453-016	Ca (227.547 nm)	394.3389 o (ppm)	0.99	394.3389 (ppm)	27570.0995
2/23/2018 18:46:46	R1801453-016	Cd (214.439 nm)	0.0038 (ppm)	0.94	0.0038 (ppm)	96.7368
2/23/2018 18:46:46	R1801453-016	Co (230.786 nm)	0.0310 (ppm)	0.18	0.0310 (ppm)	324.4717
2/23/2018 18:46:46	R1801453-016	Cr (267.716 nm)	0.0868 (ppm)	0.47	0.0868 (ppm)	4192.3086
2/23/2018 18:46:46	R1801453-016	Cu (327.395 nm)	0.2809 (ppm)	0.68	0.2809 (ppm)	19773.1286
2/23/2018 18:46:46	R1801453-016	Fe (234.350 nm)	91.8526 o (ppm)	0.64	91.8526 (ppm)	1033623.1020
2/23/2018 18:46:46	R1801453-016	K (766.491 nm)	8.4474 (ppm)	1.21	8.4474 (ppm)	31073.8112
2/23/2018 18:46:46	R1801453-016	Mg (279.078 nm)	149.5990 o (ppm)	0.68	149.5990 (ppm)	308919.7359
2/23/2018 18:46:46	R1801453-016	Mn (257.610 nm)	2.3195 o (ppm)	0.71	2.3195 (ppm)	752990.3492
2/23/2018 18:46:46	R1801453-016	Mo (202.032 nm)	0.0051 (ppm)	3.03	0.0051 (ppm)	57.3749
2/23/2018 18:46:46	R1801453-016	Na (588.995 nm)	2.3276 (ppm)	1.36	2.3276 (ppm)	121245.8216
2/23/2018 18:46:46	R1801453-016	Ni (230.299 nm)	0.0723 (ppm)	1.21	0.0723 (ppm)	492.5309
2/23/2018 18:46:46	R1801453-016	Pb (220.353 nm)	0.7596 (ppm)	0.81	0.7596 (ppm)	1737.8387
2/23/2018 18:46:46	R1801453-016	Sb (217.582 nm)	0.0046 (ppm)	16.77	0.0046 (ppm)	5.8467
2/23/2018 18:46:46	R1801453-016	Se (196.026 nm)	0.0023 (ppm)	45.79	0.0023 (ppm)	0.3438
2/23/2018 18:46:46	R1801453-016	Sn (189.925 nm)	0.0339 (ppm)	3.04	0.0339 (ppm)	42.8371
2/23/2018 18:46:46	R1801453-016	Sr (216.596 nm)	0.5061 (ppm)	0.58	0.5061 (ppm)	7004.3378
2/23/2018 18:46:46	R1801453-016	Ti (336.122 nm)	1.3544 (ppm)	0.77	1.3544 (ppm)	303484.2884
2/23/2018 18:46:46	R1801453-016	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	19.3756
2/23/2018 18:46:46	R1801453-016	V (292.401 nm)	0.1277 (ppm)	0.81	0.1277 (ppm)	4983.3058
2/23/2018 18:46:46	R1801453-016	Y (360.074 nm)	0.93 (Ratio)	1.59	0.93 (Ratio)	919856.79
2/23/2018 18:46:46	R1801453-016	Y_R (360.074 nm)	0.93 (Ratio)	1.59	0.93 (Ratio)	921145.87
2/23/2018 18:46:46	R1801453-016	Zn (213.857 nm)	0.9905 (ppm)	3.60	0.9905 (ppm)	29891.7744
2/23/2018 18:50:06	R1801453-017	Ag (328.068 nm)	0.0006 (ppm)	10.56	0.0006 (ppm)	-69.5562
2/23/2018 18:50:06	R1801453-017	Al (394.401 nm)	54.5720 o (ppm)	0.16	54.5720 (ppm)	789564.2082
2/23/2018 18:50:06	R1801453-017	As (188.980 nm)	0.0455 (ppm)	4.07	0.0455 (ppm)	40.0039
2/23/2018 18:50:06	R1801453-017	B (249.772 nm)	0.0988 (ppm)	0.42	0.0988 (ppm)	3091.4055
2/23/2018 18:50:06	R1801453-017	Ba (230.424 nm)	0.5360 (ppm)	1.02	0.5360 (ppm)	18741.4709
2/23/2018 18:50:06	R1801453-017	Be (313.107 nm)	0.0026 (ppm)	0.61	0.0026 (ppm)	3313.9669
2/23/2018 18:50:06	R1801453-017	Ca (227.547 nm)	629.6631 o (ppm)	0.29	629.6631 (ppm)	44018.2675
2/23/2018 18:50:06	R1801453-017	Cd (214.439 nm)	0.0030 (ppm)	8.39	0.0030 (ppm)	80.3103
2/23/2018 18:50:06	R1801453-017	Co (230.786 nm)	0.0270 (ppm)	2.26	0.0270 (ppm)	281.6556

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:50:06	R1801453-017	Cr (267.716 nm)	0.0828 (ppm)	0.45	0.0828 (ppm)	3999.9076
2/23/2018 18:50:06	R1801453-017	Cu (327.395 nm)	0.1282 (ppm)	0.48	0.1282 (ppm)	8036.9519
2/23/2018 18:50:06	R1801453-017	Fe (234.350 nm)	92.9924 o (ppm)	0.42	92.9924 (ppm)	1046449.2394
2/23/2018 18:50:06	R1801453-017	K (766.491 nm)	9.3060 (ppm)	0.54	9.3060 (ppm)	34232.3931
2/23/2018 18:50:06	R1801453-017	Mg (279.078 nm)	233.6019 o (ppm)	0.27	233.6019 (ppm)	482387.0585
2/23/2018 18:50:06	R1801453-017	Mn (257.610 nm)	2.9120 o (ppm)	0.32	2.9120 (ppm)	945333.1196
2/23/2018 18:50:06	R1801453-017	Mo (202.032 nm)	0.0039 (ppm)	8.38	0.0039 (ppm)	44.8734
2/23/2018 18:50:06	R1801453-017	Na (588.995 nm)	1.8300 (ppm)	0.57	1.8300 (ppm)	94342.3899
2/23/2018 18:50:06	R1801453-017	Ni (230.299 nm)	0.0599 (ppm)	1.07	0.0599 (ppm)	404.4286
2/23/2018 18:50:06	R1801453-017	Pb (220.353 nm)	0.5952 (ppm)	0.71	0.5952 (ppm)	1363.0641
2/23/2018 18:50:06	R1801453-017	Sb (217.582 nm)	0.0014 (ppm)	56.40	0.0014 (ppm)	0.7173
2/23/2018 18:50:06	R1801453-017	Se (196.026 nm)	-0.0005 u (ppm) i	> 100.00	-0.0005 (ppm)	-2.3610
2/23/2018 18:50:06	R1801453-017	Sn (189.925 nm)	0.0189 (ppm)	20.10	0.0189 (ppm)	24.3696
2/23/2018 18:50:06	R1801453-017	Sr (216.596 nm)	0.5944 (ppm)	0.49	0.5944 (ppm)	8226.7684
2/23/2018 18:50:06	R1801453-017	Ti (336.122 nm)	0.8919 (ppm)	0.05	0.8919 (ppm)	199676.5308
2/23/2018 18:50:06	R1801453-017	Tl (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	23.5327
2/23/2018 18:50:06	R1801453-017	V (292.401 nm)	0.1302 (ppm)	0.13	0.1302 (ppm)	5076.8810
2/23/2018 18:50:06	R1801453-017	Y (360.074 nm)	0.91 (Ratio)	0.79	0.91 (Ratio)	899761.08
2/23/2018 18:50:06	R1801453-017	Y_R (360.074 nm)	0.91 (Ratio)	0.79	0.91 (Ratio)	901035.52
2/23/2018 18:50:06	R1801453-017	Zn (213.857 nm)	0.9019 (ppm)	0.75	0.9019 (ppm)	27216.5684
2/23/2018 18:53:27	R1801453-018	Ag (328.068 nm)	0.0012 (ppm)	4.83	0.0012 (ppm)	-26.5174
2/23/2018 18:53:27	R1801453-018	Al (394.401 nm)	45.7581 o (ppm)	0.34	45.7581 (ppm)	662052.9273
2/23/2018 18:53:27	R1801453-018	As (188.980 nm)	0.0686 (ppm)	2.31	0.0686 (ppm)	61.8060
2/23/2018 18:53:27	R1801453-018	B (249.772 nm)	0.0846 (ppm)	0.34	0.0846 (ppm)	2658.4514
2/23/2018 18:53:27	R1801453-018	Ba (230.424 nm)	0.5182 (ppm)	0.72	0.5182 (ppm)	18117.6337
2/23/2018 18:53:27	R1801453-018	Be (313.107 nm)	0.0036 (ppm)	0.39	0.0036 (ppm)	4872.7117
2/23/2018 18:53:27	R1801453-018	Ca (227.547 nm)	135.6464 o (ppm)	0.33	135.6464 (ppm)	9488.5799
2/23/2018 18:53:27	R1801453-018	Cd (214.439 nm)	0.0079 (ppm)	3.38	0.0079 (ppm)	184.0081
2/23/2018 18:53:27	R1801453-018	Co (230.786 nm)	0.0406 (ppm)	1.82	0.0406 (ppm)	426.7571
2/23/2018 18:53:27	R1801453-018	Cr (267.716 nm)	0.0926 (ppm)	0.34	0.0926 (ppm)	4476.4741
2/23/2018 18:53:27	R1801453-018	Cu (327.395 nm)	0.3384 (ppm)	0.22	0.3384 (ppm)	23810.2501
2/23/2018 18:53:27	R1801453-018	Fe (234.350 nm)	109.4503 o (ppm)	0.41	109.4503 (ppm)	1231647.1941
2/23/2018 18:53:27	R1801453-018	K (766.491 nm)	5.5776 (ppm)	0.73	5.5776 (ppm)	20516.1136
2/23/2018 18:53:27	R1801453-018	Mg (279.078 nm)	61.3372 o (ppm)	0.37	61.3372 (ppm)	126657.8166
2/23/2018 18:53:27	R1801453-018	Mn (257.610 nm)	2.2238 o (ppm)	0.26	2.2238 (ppm)	721914.6342
2/23/2018 18:53:27	R1801453-018	Mo (202.032 nm)	0.0115 (ppm)	0.33	0.0115 (ppm)	124.4438
2/23/2018 18:53:27	R1801453-018	Na (588.995 nm)	1.4543 (ppm)	0.83	1.4543 (ppm)	74032.9290
2/23/2018 18:53:27	R1801453-018	Ni (230.299 nm)	0.0845 (ppm)	0.78	0.0845 (ppm)	579.5717
2/23/2018 18:53:27	R1801453-018	Pb (220.353 nm)	4.2567 o (ppm)	0.54	4.2567 (ppm)	9712.5308
2/23/2018 18:53:27	R1801453-018	Sb (217.582 nm)	0.0165 (ppm)	12.73	0.0165 (ppm)	24.7577
2/23/2018 18:53:27	R1801453-018	Se (196.026 nm)	0.0074 (ppm)	40.20	0.0074 (ppm)	5.1434
2/23/2018 18:53:27	R1801453-018	Sn (189.925 nm)	1.2557 (ppm)	0.82	1.2557 (ppm)	1548.1007
2/23/2018 18:53:27	R1801453-018	Sr (216.596 nm)	0.2436 (ppm)	0.70	0.2436 (ppm)	3369.7368
2/23/2018 18:53:27	R1801453-018	Ti (336.122 nm)	0.7668 (ppm)	0.18	0.7668 (ppm)	171602.7045
2/23/2018 18:53:27	R1801453-018	Tl (351.923 nm)	-0.0099 u (ppm)	18.41	-0.0099 (ppm)	-11.3788
2/23/2018 18:53:27	R1801453-018	V (292.401 nm)	0.1315 (ppm)	0.16	0.1315 (ppm)	5128.6098
2/23/2018 18:53:27	R1801453-018	Y (360.074 nm)	0.97 (Ratio)	0.81	0.97 (Ratio)	964299.29
2/23/2018 18:53:27	R1801453-018	Y_R (360.074 nm)	0.97 (Ratio)	0.81	0.97 (Ratio)	965597.22
2/23/2018 18:53:27	R1801453-018	Zn (213.857 nm)	2.9400 o (ppm)	0.95	2.9400 (ppm)	88788.5420
2/23/2018 18:56:48	R1801453-019	Ag (328.068 nm)	0.0010 (ppm)	7.89	0.0010 (ppm)	-39.1542
2/23/2018 18:56:48	R1801453-019	Al (394.401 nm)	51.7161 o (ppm)	0.21	51.7161 (ppm)	748247.8730



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 18:56:48	R1801453-019	As (188.980 nm)	0.0811 (ppm)	1.77	0.0811 (ppm)	73.2961
2/23/2018 18:56:48	R1801453-019	B (249.772 nm)	0.0964 (ppm)	0.13	0.0964 (ppm)	3017.9504
2/23/2018 18:56:48	R1801453-019	Ba (230.424 nm)	0.7563 (ppm)	0.12	0.7563 (ppm)	26438.9157
2/23/2018 18:56:48	R1801453-019	Be (313.107 nm)	0.0028 (ppm)	0.30	0.0028 (ppm)	3580.0012
2/23/2018 18:56:48	R1801453-019	Ca (227.547 nm)	236.4375 o (ppm)	0.37	236.4375 (ppm)	16533.4497
2/23/2018 18:56:48	R1801453-019	Cd (214.439 nm)	0.0059 (ppm)	4.23	0.0059 (ppm)	142.4737
2/23/2018 18:56:48	R1801453-019	Co (230.786 nm)	0.0415 (ppm)	0.54	0.0415 (ppm)	436.3085
2/23/2018 18:56:48	R1801453-019	Cr (267.716 nm)	0.1052 (ppm)	0.29	0.1052 (ppm)	5082.4494
2/23/2018 18:56:48	R1801453-019	Cu (327.395 nm)	0.2131 (ppm)	0.43	0.2131 (ppm)	15005.9344
2/23/2018 18:56:48	R1801453-019	Fe (234.350 nm)	116.1647 o (ppm)	0.37	116.1647 (ppm)	1307204.0323
2/23/2018 18:56:48	R1801453-019	K (766.491 nm)	8.7420 (ppm)	0.68	8.7420 (ppm)	32157.6689
2/23/2018 18:56:48	R1801453-019	Mg (279.078 nm)	83.9704 o (ppm)	0.25	83.9704 (ppm)	173395.8683
2/23/2018 18:56:48	R1801453-019	Mn (257.610 nm)	3.0000 o (ppm)	0.27	3.0000 (ppm)	973878.7758
2/23/2018 18:56:48	R1801453-019	Mo (202.032 nm)	0.0068 (ppm)	7.15	0.0068 (ppm)	74.8575
2/23/2018 18:56:48	R1801453-019	Na (588.995 nm)	1.8011 (ppm)	0.79	1.8011 (ppm)	92781.3906
2/23/2018 18:56:48	R1801453-019	Ni (230.299 nm)	0.0876 (ppm)	0.98	0.0876 (ppm)	601.7297
2/23/2018 18:56:48	R1801453-019	Pb (220.353 nm)	1.5723 o (ppm)	0.36	1.5723 (ppm)	3591.1742
2/23/2018 18:56:48	R1801453-019	Sb (217.582 nm)	0.0082 (ppm)	33.77	0.0082 (ppm)	11.5225
2/23/2018 18:56:48	R1801453-019	Se (196.026 nm)	0.0070 (ppm)	27.12	0.0070 (ppm)	4.8016
2/23/2018 18:56:48	R1801453-019	Sn (189.925 nm)	0.0694 (ppm)	1.58	0.0694 (ppm)	86.5403
2/23/2018 18:56:48	R1801453-019	Sr (216.596 nm)	0.4699 (ppm)	0.40	0.4699 (ppm)	6503.5858
2/23/2018 18:56:48	R1801453-019	Ti (336.122 nm)	0.8178 (ppm)	0.18	0.8178 (ppm)	18304.18819
2/23/2018 18:56:48	R1801453-019	Tl (351.923 nm)	-0.0070 u (ppm)	8.76	-0.0070 (ppm)	-2.8806
2/23/2018 18:56:48	R1801453-019	V (292.401 nm)	0.1556 (ppm)	0.17	0.1556 (ppm)	6049.9408
2/23/2018 18:56:48	R1801453-019	Y (360.074 nm)	0.96 (Ratio)	0.85	0.96 (Ratio)	947838.74
2/23/2018 18:56:48	R1801453-019	Y_R (360.074 nm)	0.96 (Ratio)	0.85	0.96 (Ratio)	949133.13
2/23/2018 18:56:48	R1801453-019	Zn (213.857 nm)	1.5234 (ppm)	0.46	1.5234 (ppm)	45991.7191
2/23/2018 19:00:09	Continuing Calibration Verification	Ag (328.068 nm)	0.4736 (ppm)	0.45	0.4736 (ppm)	36662.8435
2/23/2018 19:00:09	Continuing Calibration Verification	Al (394.401 nm)	9.4917 (ppm)	0.11	9.4917 (ppm)	137383.7985
2/23/2018 19:00:09	Continuing Calibration Verification	As (188.980 nm)	0.9420 (ppm)	0.84	0.9420 (ppm)	879.6065
2/23/2018 19:00:09	Continuing Calibration Verification	B (249.772 nm)	2.4172 (ppm)	0.48	2.4172 (ppm)	73576.3423
2/23/2018 19:00:09	Continuing Calibration Verification	Ba (230.424 nm)	10.1079 (ppm)	0.75	10.1079 (ppm)	353316.8616
2/23/2018 19:00:09	Continuing Calibration Verification	Be (313.107 nm)	0.2514 (ppm)	0.45	0.2514 (ppm)	378443.3678
2/23/2018 19:00:09	Continuing Calibration Verification	Ca (227.547 nm)	23.4861 (ppm)	0.20	23.4861 (ppm)	1649.0424
2/23/2018 19:00:09	Continuing Calibration Verification	Cd (214.439 nm)	0.4886 (ppm)	0.87	0.4886 (ppm)	10490.9718
2/23/2018 19:00:09	Continuing Calibration Verification	Co (230.786 nm)	2.5330 (ppm)	0.77	2.5330 (ppm)	26966.4028
2/23/2018 19:00:09	Continuing Calibration Verification	Cr (267.716 nm)	0.5206 (ppm)	0.67	0.5206 (ppm)	25177.0292
2/23/2018 19:00:09	Continuing Calibration Verification	Cu (327.395 nm)	1.2097 (ppm)	0.04	1.2097 (ppm)	85051.3517
2/23/2018 19:00:09	Continuing Calibration Verification	Fe (234.350 nm)	5.0139 (ppm)	0.58	5.0139 (ppm)	56439.7790
2/23/2018 19:00:09	Continuing Calibration Verification	K (766.491 nm)	24.4138 (ppm)	0.16	24.4138 (ppm)	89812.1692
2/23/2018 19:00:09	Continuing Calibration Verification	Mg (279.078 nm)	24.5422 (ppm)	0.56	24.5422 (ppm)	50675.6908
2/23/2018 19:00:09	Continuing Calibration Verification	Mn (257.610 nm)	0.7609 (ppm)	0.52	0.7609 (ppm)	247014.5078
2/23/2018 19:00:09	Continuing Calibration Verification	Mo (202.032 nm)	2.4008 (ppm)	0.72	2.4008 (ppm)	25143.7475
2/23/2018 19:00:09	Continuing Calibration Verification	Na (588.995 nm)	24.9866 (ppm)	0.28	24.9866 (ppm)	1346277.1251
2/23/2018 19:00:09	Continuing Calibration Verification	Ni (230.299 nm)	2.0164 (ppm)	0.59	2.0164 (ppm)	14385.0591
2/23/2018 19:00:09	Continuing Calibration Verification	Pb (220.353 nm)	0.4921 (ppm)	0.68	0.4921 (ppm)	1127.7947
2/23/2018 19:00:09	Continuing Calibration Verification	Sb (217.582 nm)	4.7634 (ppm)	0.35	4.7634 (ppm)	7579.2696
2/23/2018 19:00:09	Continuing Calibration Verification	Se (196.026 nm)	0.4724 (ppm)	0.72	0.4724 (ppm)	447.5068
2/23/2018 19:00:09	Continuing Calibration Verification	Sn (189.925 nm)	4.9257 (ppm)	0.76	4.9257 (ppm)	6069.5990
2/23/2018 19:00:09	Continuing Calibration Verification	Sr (216.596 nm)	2.5186 (ppm)	0.82	2.5186 (ppm)	34875.4818
2/23/2018 19:00:09	Continuing Calibration Verification	Ti (336.122 nm)	2.4801 (ppm)	0.19	2.4801 (ppm)	556181.2075

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:00:09	Continuing Calibration Verification	Tl (351.923 nm)	0.9738 (ppm)	0.24	0.9738 (ppm)	2936.8807
2/23/2018 19:00:09	Continuing Calibration Verification	V (292.401 nm)	2.4827 (ppm)	0.47	2.4827 (ppm)	95055.5513
2/23/2018 19:00:09	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.41	0.97 (Ratio)	961580.86
2/23/2018 19:00:09	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.41	0.97 (Ratio)	962919.09
2/23/2018 19:00:09	Continuing Calibration Verification	Zn (213.857 nm)	0.9762 (ppm)	0.66	0.9762 (ppm)	29459.8927
2/23/2018 19:03:30	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	83.49	-0.0001 (ppm)	-121.4550
2/23/2018 19:03:30	Continuing Calibration Blank	Al (394.401 nm)	0.0047 (ppm)	7.45	0.0047 (ppm)	134.7052
2/23/2018 19:03:30	Continuing Calibration Blank	As (188.980 nm)	0.0013 (ppm)	58.26	0.0013 (ppm)	-1.3868
2/23/2018 19:03:30	Continuing Calibration Blank	B (249.772 nm)	0.0016 (ppm)	12.56	0.0016 (ppm)	135.1839
2/23/2018 19:03:30	Continuing Calibration Blank	Ba (230.424 nm)	0.0022 (ppm)	4.50	0.0022 (ppm)	81.9218
2/23/2018 19:03:30	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	5.91	0.0001 (ppm)	-464.0257
2/23/2018 19:03:30	Continuing Calibration Blank	Ca (227.547 nm)	-0.0072 u (ppm)	> 100.00	-0.0072 (ppm)	6.9592
2/23/2018 19:03:30	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.3536
2/23/2018 19:03:30	Continuing Calibration Blank	Co (230.786 nm)	0.0004 (ppm)	15.72	0.0004 (ppm)	-0.9661
2/23/2018 19:03:30	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-3.6071
2/23/2018 19:03:30	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	7.82	0.0003 (ppm)	47.6948
2/23/2018 19:03:30	Continuing Calibration Blank	Fe (234.350 nm)	0.0035 (ppm)	5.40	0.0035 (ppm)	58.4423
2/23/2018 19:03:30	Continuing Calibration Blank	K (766.491 nm)	0.0312 (ppm)	17.32	0.0312 (ppm)	111.6105
2/23/2018 19:03:30	Continuing Calibration Blank	Mg (279.078 nm)	0.0060 (ppm)	8.22	0.0060 (ppm)	7.9731
2/23/2018 19:03:30	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	4.96	0.0002 (ppm)	69.1986
2/23/2018 19:03:30	Continuing Calibration Blank	Mo (202.032 nm)	0.0022 (ppm)	1.23	0.0022 (ppm)	26.8969
2/23/2018 19:03:30	Continuing Calibration Blank	Ne (588.995 nm)	0.0060 (ppm)	16.12	0.0060 (ppm)	-4268.2892
2/23/2018 19:03:30	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-21.6913
2/23/2018 19:03:30	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.9202
2/23/2018 19:03:30	Continuing Calibration Blank	Sb (217.582 nm)	0.0036 (ppm)	7.66	0.0036 (ppm)	4.2061
2/23/2018 19:03:30	Continuing Calibration Blank	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-2.2950
2/23/2018 19:03:30	Continuing Calibration Blank	Sn (189.925 nm)	0.0004 (ppm)	64.09	0.0004 (ppm)	1.5317
2/23/2018 19:03:30	Continuing Calibration Blank	Sr (216.596 nm)	0.0006 (ppm)	38.21	0.0006 (ppm)	3.4159
2/23/2018 19:03:30	Continuing Calibration Blank	Ti (336.122 nm)	0.0014 (ppm)	3.49	0.0014 (ppm)	-211.5290
2/23/2018 19:03:30	Continuing Calibration Blank	Tl (351.923 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	21.1152
2/23/2018 19:03:30	Continuing Calibration Blank	V (292.401 nm)	0.0005 (ppm)	8.85	0.0005 (ppm)	118.5069
2/23/2018 19:03:30	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	1.26	1.02 (Ratio)	1014203.62
2/23/2018 19:03:30	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	1.26	1.02 (Ratio)	1015543.68
2/23/2018 19:03:30	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	24.15	0.0003 (ppm)	-23.0428
2/23/2018 19:06:50	Contract Required Detection Limit	Ag (328.068 nm)	0.0095 (ppm)	1.03	0.0095 (ppm)	622.7371
2/23/2018 19:06:50	Contract Required Detection Limit	Al (394.401 nm)	0.1774 (ppm)	0.90	0.1774 (ppm)	2632.8471
2/23/2018 19:06:50	Contract Required Detection Limit	As (188.980 nm)	0.0196 (ppm)	9.62	0.0196 (ppm)	15.7364
2/23/2018 19:06:50	Contract Required Detection Limit	B (249.772 nm)	0.1932 (ppm)	0.67	0.1932 (ppm)	5961.5714
2/23/2018 19:06:50	Contract Required Detection Limit	Ba (230.424 nm)	0.2070 (ppm)	0.68	0.2070 (ppm)	7241.8372
2/23/2018 19:06:50	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.60	0.0049 (ppm)	6840.3362
2/23/2018 19:06:50	Contract Required Detection Limit	Ca (227.547 nm)	0.9143 (ppm)	0.84	0.9143 (ppm)	71.3738
2/23/2018 19:06:50	Contract Required Detection Limit	Cd (214.439 nm)	0.0098 (ppm)	1.16	0.0098 (ppm)	225.1484
2/23/2018 19:06:50	Contract Required Detection Limit	Co (230.786 nm)	0.0489 (ppm)	1.39	0.0489 (ppm)	515.5846
2/23/2018 19:06:50	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	1.21	0.0102 (ppm)	486.9880
2/23/2018 19:06:50	Contract Required Detection Limit	Cu (327.395 nm)	0.0242 (ppm)	1.02	0.0242 (ppm)	1726.6517
2/23/2018 19:06:50	Contract Required Detection Limit	Fe (234.350 nm)	0.1046 (ppm)	0.83	0.1046 (ppm)	1196.7485
2/23/2018 19:06:50	Contract Required Detection Limit	K (766.491 nm)	0.9320 (ppm)	1.05	0.9320 (ppm)	3425.4907
2/23/2018 19:06:50	Contract Required Detection Limit	Mg (279.078 nm)	1.0018 (ppm)	0.74	1.0018 (ppm)	2064.3821
2/23/2018 19:06:50	Contract Required Detection Limit	Mn (257.610 nm)	0.0153 (ppm)	0.59	0.0153 (ppm)	4983.3537
2/23/2018 19:06:50	Contract Required Detection Limit	Mo (202.032 nm)	0.0249 (ppm)	1.15	0.0249 (ppm)	264.8265
2/23/2018 19:06:50	Contract Required Detection Limit	Na (588.995 nm)	1.0235 (ppm)	0.57	1.0235 (ppm)	50740.1864

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:06:50	Contract Required Detection Limit	Ni (230.299 nm)	0.0411 (ppm)	2.62	0.0411 (ppm)	269.7093
2/23/2018 19:06:50	Contract Required Detection Limit	Pb (220.353 nm)	0.0094 (ppm)	13.37	0.0094 (ppm)	27.1257
2/23/2018 19:06:50	Contract Required Detection Limit	Sb (217.582 nm)	0.0591 (ppm)	3.30	0.0591 (ppm)	92.5296
2/23/2018 19:06:50	Contract Required Detection Limit	Se (196.026 nm)	0.0110 (ppm)	14.55	0.0110 (ppm)	8.5818
2/23/2018 19:06:50	Contract Required Detection Limit	Sn (189.925 nm)	0.4920 (ppm)	0.18	0.4920 (ppm)	607.1963
2/23/2018 19:06:50	Contract Required Detection Limit	Sr (216.596 nm)	0.1004 (ppm)	0.69	0.1004 (ppm)	1386.5736
2/23/2018 19:06:50	Contract Required Detection Limit	Ti (336.122 nm)	0.0501 (ppm)	0.70	0.0501 (ppm)	10726.1182
2/23/2018 19:06:50	Contract Required Detection Limit	Ti (351.923 nm)	0.0180 (ppm)	9.24	0.0180 (ppm)	72.1303
2/23/2018 19:06:50	Contract Required Detection Limit	V (292.401 nm)	0.0485 (ppm)	0.70	0.0485 (ppm)	1952.0916
2/23/2018 19:06:50	Contract Required Detection Limit	Y (360.074 nm)	1.02 (Ratio)	1.07	1.02 (Ratio)	1011392.16
2/23/2018 19:06:50	Contract Required Detection Limit	Y_R (360.074 nm)	1.02 (Ratio)	1.07	1.02 (Ratio)	1012748.02
2/23/2018 19:06:50	Contract Required Detection Limit	Zn (213.857 nm)	0.0196 (ppm)	0.44	0.0196 (ppm)	562.0425
2/23/2018 19:10:11	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u (ppm)	27.68	-0.0001 (ppm)	-122.4229
2/23/2018 19:10:11	Interference Check Solution A	Al (394.401 nm)	266.5402 o (ppm)	0.09	266.5402 (ppm)	3856128.6233
2/23/2018 19:10:11	Interference Check Solution A	As (188.980 nm)	0.0029 (ppm)	31.17	0.0029 (ppm)	0.1169
2/23/2018 19:10:11	Interference Check Solution A	B (249.772 nm)	0.0364 (ppm)	0.68	0.0364 (ppm)	1192.9306
2/23/2018 19:10:11	Interference Check Solution A	Ba (230.424 nm)	0.0005 (ppm)	8.80	0.0005 (ppm)	22.8335
2/23/2018 19:10:11	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	13.97	-0.0001 (ppm)	-668.0675
2/23/2018 19:10:11	Interference Check Solution A	Ca (227.547 nm)	266.4765 o (ppm)	0.24	266.4765 (ppm)	18633.0500
2/23/2018 19:10:11	Interference Check Solution A	Cd (214.439 nm)	-0.0007 u (ppm)	56.78	-0.0007 (ppm)	0.2817
2/23/2018 19:10:11	Interference Check Solution A	Co (230.786 nm)	-0.0022 u (ppm)	30.15	-0.0022 (ppm)	-29.0698
2/23/2018 19:10:11	Interference Check Solution A	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-10.5193
2/23/2018 19:10:11	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	7.15	0.0007 (ppm)	75.6549
2/23/2018 19:10:11	Interference Check Solution A	Fe (234.350 nm)	91.1989 o (ppm)	0.47	91.1989 (ppm)	1026267.6089
2/23/2018 19:10:11	Interference Check Solution A	K (766.491 nm)	0.0252 (ppm)	42.26	0.0252 (ppm)	89.6006
2/23/2018 19:10:11	Interference Check Solution A	Mg (279.078 nm)	261.9662 o (ppm)	0.24	261.9662 (ppm)	540959.8186
2/23/2018 19:10:11	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	0.33	0.0016 (ppm)	534.7021
2/23/2018 19:10:11	Interference Check Solution A	Mo (202.032 nm)	0.0003 (ppm)	60.49	0.0003 (ppm)	6.8047
2/23/2018 19:10:11	Interference Check Solution A	Na (588.995 nm)	-0.0080 u (ppm)	15.06	-0.0080 (ppm)	-5024.8528
2/23/2018 19:10:11	Interference Check Solution A	Ni (230.299 nm)	-0.0020 u (ppm)	8.08	-0.0020 (ppm)	-37.4410
2/23/2018 19:10:11	Interference Check Solution A	Pb (220.353 nm)	-0.0020 u (ppm)	64.03	-0.0020 (ppm)	1.1265
2/23/2018 19:10:11	Interference Check Solution A	Sb (217.582 nm)	-0.0021 u (ppm)	97.28	-0.0021 (ppm)	-4.8463
2/23/2018 19:10:11	Interference Check Solution A	Se (196.026 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-4.3140
2/23/2018 19:10:11	Interference Check Solution A	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.3619
2/23/2018 19:10:11	Interference Check Solution A	Sr (216.596 nm)	0.0203 (ppm)	1.44	0.0203 (ppm)	276.1111
2/23/2018 19:10:11	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	3.14	0.0020 (ppm)	-65.6447
2/23/2018 19:10:11	Interference Check Solution A	Ti (351.923 nm)	0.0061 (ppm)	32.92	0.0061 (ppm)	36.5168
2/23/2018 19:10:11	Interference Check Solution A	V (292.401 nm)	0.0036 K (ppm)	0.64	0.0036 (ppm)	237.4519 K
2/23/2018 19:10:11	Interference Check Solution A	Y (360.074 nm)	0.89 (Ratio)	0.63	0.89 (Ratio)	876430.29
2/23/2018 19:10:11	Interference Check Solution A	Y_R (360.074 nm)	0.89 (Ratio)	0.63	0.89 (Ratio)	877712.14
2/23/2018 19:10:11	Interference Check Solution A	Zn (213.857 nm)	0.0123 K (ppm)	1.34	0.0123 (ppm)	34.10684 K
2/23/2018 19:13:32	Interference Check Solution AB	Ag (328.068 nm)	0.2146 (ppm)	0.30	0.2146 (ppm)	16546.5623
2/23/2018 19:13:32	Interference Check Solution AB	Al (394.401 nm)	265.7623 o (ppm)	0.12	265.7623 (ppm)	3844874.5537
2/23/2018 19:13:32	Interference Check Solution AB	As (188.980 nm)	0.1008 (ppm)	1.21	0.1008 (ppm)	91.7489
2/23/2018 19:13:32	Interference Check Solution AB	B (249.772 nm)	0.0377 (ppm)	1.01	0.0377 (ppm)	1234.9437
2/23/2018 19:13:32	Interference Check Solution AB	Ba (230.424 nm)	0.5208 (ppm)	0.49	0.5208 (ppm)	18209.3831
2/23/2018 19:13:32	Interference Check Solution AB	Be (313.107 nm)	0.5087 (ppm)	0.35	0.5087 (ppm)	766369.6427
2/23/2018 19:13:32	Interference Check Solution AB	Ca (227.547 nm)	265.7836 o (ppm)	0.22	265.7836 (ppm)	18584.6207
2/23/2018 19:13:32	Interference Check Solution AB	Cd (214.439 nm)	0.9465 (ppm)	0.69	0.9465 (ppm)	20306.4591
2/23/2018 19:13:32	Interference Check Solution AB	Co (230.786 nm)	0.4855 (ppm)	0.36	0.4855 (ppm)	5164.0290
2/23/2018 19:13:32	Interference Check Solution AB	Cr (267.716 nm)	0.5074 (ppm)	0.44	0.5074 (ppm)	24540.3177

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:13:32	Interference Check Solution AB	Cu (327.395 nm)	0.5381 (ppm)	0.19	0.5381 (ppm)	37849.9392
2/23/2018 19:13:32	Interference Check Solution AB	Fe (234.350 nm)	90.7785 o (ppm)	0.80	90.7785 (ppm)	1021536.7759
2/23/2018 19:13:32	Interference Check Solution AB	K (766.491 nm)	0.0056 u (ppm)	> 100.00	0.0056 (ppm)	17.4735
2/23/2018 19:13:32	Interference Check Solution AB	Mg (279.078 nm)	260.8111 o (ppm)	0.42	260.8111 (ppm)	538574.5164
2/23/2018 19:13:32	Interference Check Solution AB	Mn (257.610 nm)	0.4991 (ppm)	0.36	0.4991 (ppm)	162027.1175
2/23/2018 19:13:32	Interference Check Solution AB	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	4.4110
2/23/2018 19:13:32	Interference Check Solution AB	Ne (588.995 nm)	-0.0045 u (ppm)	22.52	-0.0045 (ppm)	-4837.3749
2/23/2018 19:13:32	Interference Check Solution AB	Ni (230.299 nm)	0.9520 (ppm)	0.53	0.9520 (ppm)	6769.6637
2/23/2018 19:13:32	Interference Check Solution AB	Pb (220.353 nm)	0.0479 (ppm)	2.76	0.0479 (ppm)	115.0019
2/23/2018 19:13:32	Interference Check Solution AB	Sb (217.582 nm)	0.6051 (ppm)	0.88	0.6051 (ppm)	961.4871
2/23/2018 19:13:32	Interference Check Solution AB	Se (196.026 nm)	0.0487 (ppm)	5.35	0.0487 (ppm)	44.4124
2/23/2018 19:13:32	Interference Check Solution AB	Sn (189.925 nm)	-0.0019 u (ppm)	54.29	-0.0019 (ppm)	-1.2244
2/23/2018 19:13:32	Interference Check Solution AB	Sr (216.596 nm)	0.0203 (ppm)	2.59	0.0203 (ppm)	276.5230
2/23/2018 19:13:32	Interference Check Solution AB	Ti (336.122 nm)	0.0019 (ppm)	1.23	0.0019 (ppm)	-94.4462
2/23/2018 19:13:32	Interference Check Solution AB	Tl (351.923 nm)	0.1169 (ppm)	1.90	0.1169 (ppm)	368.4075
2/23/2018 19:13:32	Interference Check Solution AB	V (292.401 nm)	0.5003 (ppm)	0.19	0.5003 (ppm)	19233.1134
2/23/2018 19:13:32	Interference Check Solution AB	Y (360.074 nm)	0.88 (Ratio)	0.52	0.88 (Ratio)	875826.02
2/23/2018 19:13:32	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	0.52	0.89 (Ratio)	877112.37
2/23/2018 19:13:32	Interference Check Solution AB	Zn (213.857 nm)	1.0163 (ppm)	0.44	1.0163 (ppm)	30672.3186
2/23/2018 19:16:53	HLCCV2	Ag (328.068 nm)	2.1622 o (ppm)	0.22	2.1622 (ppm)	167788.3205
2/23/2018 19:16:53	HLCCV2	Al (394.401 nm)	530.6900 o (ppm)	0.31	530.6900 (ppm)	7677608.9136
2/23/2018 19:16:53	HLCCV2	As (188.980 nm)	3.9832 o (ppm)	0.46	3.9832 (ppm)	3727.7041
2/23/2018 19:16:53	HLCCV2	B (249.772 nm)	10.3626 o (ppm)	0.24	10.3626 (ppm)	315142.2452
2/23/2018 19:16:53	HLCCV2	Ba (230.424 nm)	36.6991 o (ppm)	1.06	36.6991 (ppm)	1282787.7536
2/23/2018 19:16:53	HLCCV2	Be (313.107 nm)	0.9678 o (ppm)	0.38	0.9678 (ppm)	1458401.4567
2/23/2018 19:16:53	HLCCV2	Ca (227.547 nm)	274.0198 o (ppm)	0.28	274.0198 (ppm)	19160.2946
2/23/2018 19:16:53	HLCCV2	Cd (214.439 nm)	1.8150 o (ppm)	0.47	1.8150 (ppm)	38926.1581
2/23/2018 19:16:53	HLCCV2	Co (230.786 nm)	9.0051 o (ppm)	0.42	9.0051 (ppm)	95885.3865
2/23/2018 19:16:53	HLCCV2	Cr (267.716 nm)	9.7673 o (ppm)	0.42	9.7673 (ppm)	472480.6642
2/23/2018 19:16:53	HLCCV2	Cu (327.395 nm)	5.5769 Qo (ppm)	0.24	5.5769 (ppm)	392013.3231 Q
2/23/2018 19:16:53	HLCCV2	Fe (234.350 nm)	46.5966 o (ppm)	0.35	46.5966 (ppm)	524363.8009
2/23/2018 19:16:53	HLCCV2	K (766.491 nm)	169.7773 Qo (ppm)	0.53	169.7773 (ppm)	624586.4884 Q
2/23/2018 19:16:53	HLCCV2	Mg (279.078 nm)	488.6167 o (ppm)	0.27	488.6167 (ppm)	1008996.3103
2/23/2018 19:16:53	HLCCV2	Mn (257.610 nm)	9.3075 o (ppm)	0.31	9.3075 (ppm)	3021466.7707
2/23/2018 19:16:53	HLCCV2	Mo (202.032 nm)	9.4606 o (ppm)	0.41	9.4606 (ppm)	99070.7540
2/23/2018 19:16:53	HLCCV2	Na (588.995 nm)	161.3457 o (ppm)	0.67	161.3457 (ppm)	8718345.7453
2/23/2018 19:16:53	HLCCV2	Ni (230.299 nm)	7.2038 o (ppm)	0.30	7.2038 (ppm)	51379.4795
2/23/2018 19:16:53	HLCCV2	Pb (220.353 nm)	9.1656 o (ppm)	0.44	9.1656 (ppm)	20906.4125
2/23/2018 19:16:53	HLCCV2	Sb (217.582 nm)	0.0330 (ppm)	9.94	0.0330 (ppm)	51.0047
2/23/2018 19:16:53	HLCCV2	Se (196.026 nm)	1.9926 o (ppm)	0.61	1.9926 (ppm)	1893.7996
2/23/2018 19:16:53	HLCCV2	Sn (189.925 nm)	-0.0171 u (ppm)	17.10	-0.0171 (ppm)	-20.0396
2/23/2018 19:16:53	HLCCV2	Sr (216.596 nm)	9.4250 o (ppm)	1.70	9.4250 (ppm)	130522.8004
2/23/2018 19:16:53	HLCCV2	Ti (336.122 nm)	9.8501 o (ppm)	0.31	9.8501 (ppm)	2210481.8659
2/23/2018 19:16:53	HLCCV2	Tl (351.923 nm)	4.4498 Qo (ppm)	0.20	4.4498 (ppm)	13355.5476 Q
2/23/2018 19:16:53	HLCCV2	V (292.401 nm)	9.6524 o (ppm)	0.34	9.6524 (ppm)	369274.0184
2/23/2018 19:16:53	HLCCV2	Y (360.074 nm)	0.83 (Ratio)	1.07	0.83 (Ratio)	821712.85
2/23/2018 19:16:53	HLCCV2	Y_R (360.074 nm)	0.83 (Ratio)	1.07	0.83 (Ratio)	822932.15
2/23/2018 19:16:53	HLCCV2	Zn (213.857 nm)	3.9809 o (ppm)	0.46	3.9809 (ppm)	120233.0036
2/23/2018 19:20:14	HLCCV3	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-111.8242
2/23/2018 19:20:14	HLCCV3	Al (394.401 nm)	0.0727 (ppm)	6.93	0.0727 (ppm)	1118.8244
2/23/2018 19:20:14	HLCCV3	As (188.980 nm)	0.0016 (ppm)	85.64	0.0016 (ppm)	-1.1467

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:20:14	HLCCV3	B (249.772 nm)	0.0230 (ppm)	4.65	0.0230 (ppm)	787.4440
2/23/2018 19:20:14	HLCCV3	Ba (230.424 nm)	0.0042 (ppm)	13.03	0.0042 (ppm)	150.7872
2/23/2018 19:20:14	HLCCV3	Be (313.107 nm)	0.0001 (ppm)	10.49	0.0001 (ppm)	-409.3126
2/23/2018 19:20:14	HLCCV3	Ca (227.547 nm)	196.4794 o (ppm)	0.08	196.4794 (ppm)	13740.5478
2/23/2018 19:20:14	HLCCV3	Cd (214.439 nm)	0.0008 (ppm)	3.57	0.0008 (ppm)	33.6049
2/23/2018 19:20:14	HLCCV3	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-7.9500
2/23/2018 19:20:14	HLCCV3	Cr (267.716 nm)	0.0008 (ppm)	11.27	0.0008 (ppm)	34.7920
2/23/2018 19:20:14	HLCCV3	Cu (327.395 nm)	4.1159 o (ppm)	0.21	4.1159 (ppm)	289324.7141
2/23/2018 19:20:14	HLCCV3	Fe (234.350 nm)	38.9705 o (ppm)	0.45	38.9705 (ppm)	438548.8789
2/23/2018 19:20:14	HLCCV3	K (766.491 nm)	99.0355 o (ppm)	0.28	99.0355 (ppm)	364336.2937
2/23/2018 19:20:14	HLCCV3	Mg (279.078 nm)	0.0464 (ppm)	9.66	0.0464 (ppm)	91.4188
2/23/2018 19:20:14	HLCCV3	Mn (257.610 nm)	0.0012 (ppm)	6.05	0.0012 (ppm)	386.5538
2/23/2018 19:20:14	HLCCV3	Mo (202.032 nm)	0.0083 (ppm)	4.70	0.0083 (ppm)	90.1633
2/23/2018 19:20:14	HLCCV3	Na (588.995 nm)	0.0131 (ppm)	29.90	0.0131 (ppm)	-3883.0685
2/23/2018 19:20:14	HLCCV3	Ni (230.299 nm)	-0.0292 u (ppm)	2.57	-0.0292 (ppm)	-231.3100
2/23/2018 19:20:14	HLCCV3	Pb (220.353 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	6.9948
2/23/2018 19:20:14	HLCCV3	Sb (217.582 nm)	0.0044 (ppm)	13.46	0.0044 (ppm)	5.5660
2/23/2018 19:20:14	HLCCV3	Se (196.026 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-0.7926
2/23/2018 19:20:14	HLCCV3	Sn (189.925 nm)	-0.0015 u (ppm)	91.32	-0.0015 (ppm)	-0.8429
2/23/2018 19:20:14	HLCCV3	Sr (216.596 nm)	0.0068 (ppm)	3.84	0.0068 (ppm)	90.3411
2/23/2018 19:20:14	HLCCV3	Ti (336.122 nm)	0.0039 (ppm)	2.17	0.0039 (ppm)	353.4813
2/23/2018 19:20:14	HLCCV3	Tl (351.923 nm)	2.9543 o (ppm)	0.10	2.9543 (ppm)	8872.9651
2/23/2018 19:20:14	HLCCV3	V (292.401 nm)	0.0025 (ppm)	0.92	0.0025 (ppm)	195.1817
2/23/2018 19:20:14	HLCCV3	Y (360.074 nm)	0.94 (Ratio)	0.61	0.94 (Ratio)	928729.92
2/23/2018 19:20:14	HLCCV3	Y_R (360.074 nm)	0.94 (Ratio)	0.61	0.94 (Ratio)	930027.81
2/23/2018 19:20:14	HLCCV3	Zn (213.857 nm)	0.0086 (ppm)	1.10	0.0086 (ppm)	229.2919
2/23/2018 19:23:36	HLCCV1	Ag (328.068 nm)	0.9868 (ppm)	0.29	0.9868 (ppm)	76516.6191
2/23/2018 19:23:36	HLCCV1	Al (394.401 nm)	19.7737 (ppm)	0.18	19.7737 (ppm)	286133.8954
2/23/2018 19:23:36	HLCCV1	As (188.980 nm)	1.9481 (ppm)	0.72	1.9481 (ppm)	1821.8024
2/23/2018 19:23:36	HLCCV1	B (249.772 nm)	4.9293 (ppm)	0.33	4.9293 (ppm)	149951.5469
2/23/2018 19:23:36	HLCCV1	Ba (230.424 nm)	19.3536 (ppm)	1.15	19.3536 (ppm)	676491.3055
2/23/2018 19:23:36	HLCCV1	Be (313.107 nm)	0.4999 (ppm)	0.30	0.4999 (ppm)	753073.3384
2/23/2018 19:23:36	HLCCV1	Ca (227.547 nm)	49.0947 (ppm)	0.20	49.0947 (ppm)	3438.9756
2/23/2018 19:23:36	HLCCV1	Cd (214.439 nm)	0.9670 (ppm)	0.77	0.9670 (ppm)	20747.3835
2/23/2018 19:23:36	HLCCV1	Co (230.786 nm)	4.8654 (ppm)	0.61	4.8654 (ppm)	51803.6094
2/23/2018 19:23:36	HLCCV1	Cr (267.716 nm)	0.9966 (ppm)	0.50	0.9966 (ppm)	48207.1378
2/23/2018 19:23:36	HLCCV1	Cu (327.395 nm)	2.4894 (ppm)	0.27	2.4894 (ppm)	175003.0349
2/23/2018 19:23:36	HLCCV1	Fe (234.350 nm)	9.7858 (ppm)	0.55	9.7858 (ppm)	110137.8629
2/23/2018 19:23:36	HLCCV1	K (766.491 nm)	50.4109 (ppm)	0.44	50.4109 (ppm)	185452.3672
2/23/2018 19:23:36	HLCCV1	Mg (279.078 nm)	49.1218 (ppm)	0.43	49.1218 (ppm)	101432.8272
2/23/2018 19:23:36	HLCCV1	Mn (257.610 nm)	1.4825 (ppm)	0.43	1.4825 (ppm)	481261.9434
2/23/2018 19:23:36	HLCCV1	Mo (202.032 nm)	4.9202 (ppm)	0.52	4.9202 (ppm)	51525.1922
2/23/2018 19:23:36	HLCCV1	Na (588.995 nm)	51.2396 (ppm)	0.72	51.2396 (ppm)	2765607.3509
2/23/2018 19:23:36	HLCCV1	Ni (230.299 nm)	3.9093 (ppm)	0.54	3.9093 (ppm)	27871.5482
2/23/2018 19:23:36	HLCCV1	Pb (220.353 nm)	0.9717 (ppm)	0.54	0.9717 (ppm)	2221.4562
2/23/2018 19:23:36	HLCCV1	Sb (217.582 nm)	9.6930 (ppm)	0.08	9.6930 (ppm)	15424.4678
2/23/2018 19:23:36	HLCCV1	Se (196.026 nm)	0.9725 (ppm)	0.44	0.9725 (ppm)	923.3252
2/23/2018 19:23:36	HLCCV1	Sn (189.925 nm)	9.6236 (ppm)	0.89	9.6236 (ppm)	11857.4710
2/23/2018 19:23:36	HLCCV1	Sr (216.596 nm)	4.9215 (ppm)	0.84	4.9215 (ppm)	68153.3639
2/23/2018 19:23:36	HLCCV1	Ti (336.122 nm)	4.9487 (ppm)	0.29	4.9487 (ppm)	1110288.4408
2/23/2018 19:23:36	HLCCV1	Tl (351.923 nm)	1.9838 (ppm)	0.24	1.9838 (ppm)	5964.1883

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:23:36	HLCCV1	V (292.401 nm)	4.9397 (ppm)	0.39	4.9397 (ppm)	189025.7771
2/23/2018 19:23:36	HLCCV1	Y (360.074 nm)	0.94 (Ratio)	0.61	0.94 (Ratio)	934615.84
2/23/2018 19:23:36	HLCCV1	Y_R (360.074 nm)	0.94 (Ratio)	0.61	0.94 (Ratio)	935917.77
2/23/2018 19:23:36	HLCCV1	Zn (213.857 nm)	1.9448 (ppm)	0.54	1.9448 (ppm)	58721.3621
2/23/2018 19:26:57	Continuing Calibration Verification	Ag (328.068 nm)	0.4734 (ppm)	0.17	0.4734 (ppm)	36645.5927
2/23/2018 19:26:57	Continuing Calibration Verification	Al (394.401 nm)	9.4791 (ppm)	0.02	9.4791 (ppm)	137200.9046
2/23/2018 19:26:57	Continuing Calibration Verification	As (188.980 nm)	0.9433 (ppm)	0.78	0.9433 (ppm)	880.7810
2/23/2018 19:26:57	Continuing Calibration Verification	B (249.772 nm)	2.4247 (ppm)	0.24	2.4247 (ppm)	73806.9516
2/23/2018 19:26:57	Continuing Calibration Verification	Ba (230.424 nm)	10.1186 (ppm)	0.60	10.1186 (ppm)	353691.7865
2/23/2018 19:26:57	Continuing Calibration Verification	Be (313.107 nm)	0.2524 (ppm)	0.34	0.2524 (ppm)	379896.6862
2/23/2018 19:26:57	Continuing Calibration Verification	Ca (227.547 nm)	23.4567 (ppm)	0.31	23.4567 (ppm)	1646.9890
2/23/2018 19:26:57	Continuing Calibration Verification	Cd (214.439 nm)	0.4878 (ppm)	0.54	0.4878 (ppm)	10473.2203
2/23/2018 19:26:57	Continuing Calibration Verification	Co (230.786 nm)	2.5263 (ppm)	0.32	2.5263 (ppm)	26895.3145
2/23/2018 19:26:57	Continuing Calibration Verification	Cr (267.716 nm)	0.5206 (ppm)	0.47	0.5206 (ppm)	25176.9779
2/23/2018 19:26:57	Continuing Calibration Verification	Cu (327.395 nm)	1.2120 (ppm)	0.29	1.2120 (ppm)	85219.3485
2/23/2018 19:26:57	Continuing Calibration Verification	Fe (234.350 nm)	4.9984 (ppm)	0.36	4.9984 (ppm)	56265.6096
2/23/2018 19:26:57	Continuing Calibration Verification	K (766.491 nm)	24.4678 (ppm)	0.47	24.4678 (ppm)	90010.9861
2/23/2018 19:26:57	Continuing Calibration Verification	Mg (279.078 nm)	24.5073 (ppm)	0.31	24.5073 (ppm)	50603.4883
2/23/2018 19:26:57	Continuing Calibration Verification	Mn (257.610 nm)	0.7604 (ppm)	0.43	0.7604 (ppm)	246849.4159
2/23/2018 19:26:57	Continuing Calibration Verification	Mo (202.032 nm)	2.4043 (ppm)	0.35	2.4043 (ppm)	25180.3880
2/23/2018 19:26:57	Continuing Calibration Verification	Na (588.995 nm)	24.9152 (ppm)	0.53	24.9152 (ppm)	1342416.3205
2/23/2018 19:26:57	Continuing Calibration Verification	Ni (230.299 nm)	2.0143 (ppm)	0.47	2.0143 (ppm)	14349.7981
2/23/2018 19:26:57	Continuing Calibration Verification	Pb (220.353 nm)	0.4892 (ppm)	0.35	0.4892 (ppm)	1121.2658
2/23/2018 19:26:57	Continuing Calibration Verification	Sb (217.582 nm)	4.7533 (ppm)	0.26	4.7533 (ppm)	7563.1082
2/23/2018 19:26:57	Continuing Calibration Verification	Se (196.026 nm)	0.4723 (ppm)	0.81	0.4723 (ppm)	447.4731
2/23/2018 19:26:57	Continuing Calibration Verification	Sn (189.925 nm)	4.9085 (ppm)	0.67	4.9085 (ppm)	6048.3673
2/23/2018 19:26:57	Continuing Calibration Verification	Sr (216.596 nm)	2.5179 (ppm)	0.52	2.5179 (ppm)	34865.6863
2/23/2018 19:26:57	Continuing Calibration Verification	Ti (336.122 nm)	2.4857 (ppm)	0.19	2.4857 (ppm)	557440.1010
2/23/2018 19:26:57	Continuing Calibration Verification	Tl (351.923 nm)	0.9716 (ppm)	0.35	0.9716 (ppm)	2930.1744
2/23/2018 19:26:57	Continuing Calibration Verification	V (292.401 nm)	2.4807 (ppm)	0.27	2.4807 (ppm)	94976.3637
2/23/2018 19:26:57	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.63	0.97 (Ratio)	960761.49
2/23/2018 19:26:57	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.63	0.97 (Ratio)	962060.55
2/23/2018 19:26:57	Continuing Calibration Verification	Zn (213.857 nm)	0.9737 (ppm)	0.40	0.9737 (ppm)	29386.4273
2/23/2018 19:30:18	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 (ppm)	72.01	0.0000 (ppm)	-118.1740
2/23/2018 19:30:18	Continuing Calibration Blank	Al (394.401 nm)	0.0061 (ppm)	5.00	0.0061 (ppm)	154.8086
2/23/2018 19:30:18	Continuing Calibration Blank	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.6507
2/23/2018 19:30:18	Continuing Calibration Blank	B (249.772 nm)	0.0042 (ppm)	9.85	0.0042 (ppm)	215.2627
2/23/2018 19:30:18	Continuing Calibration Blank	Ba (230.424 nm)	0.0031 (ppm)	3.55	0.0031 (ppm)	112.5345
2/23/2018 19:30:18	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	2.20	0.0001 (ppm)	-440.2995
2/23/2018 19:30:18	Continuing Calibration Blank	Ca (227.547 nm)	-0.0174 u (ppm)	> 100.00	-0.0174 (ppm)	6.2457
2/23/2018 19:30:18	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	79.64	0.0001 (ppm)	17.6566
2/23/2018 19:30:18	Continuing Calibration Blank	Co (230.786 nm)	0.0006 (ppm)	27.30	0.0006 (ppm)	1.1165
2/23/2018 19:30:18	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	38.67	0.0002 (ppm)	4.5159
2/23/2018 19:30:18	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	10.16	0.0002 (ppm)	43.8328
2/23/2018 19:30:18	Continuing Calibration Blank	Fe (234.350 nm)	0.0037 (ppm)	2.95	0.0037 (ppm)	60.6573
2/23/2018 19:30:18	Continuing Calibration Blank	K (766.491 nm)	0.0618 (ppm)	13.53	0.0618 (ppm)	224.1551
2/23/2018 19:30:18	Continuing Calibration Blank	Mg (279.078 nm)	0.0087 (ppm)	16.54	0.0087 (ppm)	13.7031
2/23/2018 19:30:18	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	3.55	0.0003 (ppm)	89.4599
2/23/2018 19:30:18	Continuing Calibration Blank	Mo (202.032 nm)	0.0037 (ppm)	1.07	0.0037 (ppm)	42.4769
2/23/2018 19:30:18	Continuing Calibration Blank	Na (588.995 nm)	0.0072 (ppm)	20.08	0.0072 (ppm)	-4203.7075
2/23/2018 19:30:18	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 (ppm)	13.11	0.0004 (ppm)	-20.4356

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:30:18	Continuing Calibration Blank	Pb (220.353 nm)	0.0007 (ppm)	88.92	0.0007 (ppm)	7.4100
2/23/2018 19:30:18	Continuing Calibration Blank	Sb (217.582 nm)	0.0073 (ppm)	22.00	0.0073 (ppm)	10.0483
2/23/2018 19:30:18	Continuing Calibration Blank	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-1.2898
2/23/2018 19:30:18	Continuing Calibration Blank	Sn (189.925 nm)	0.0007 (ppm)	58.82	0.0007 (ppm)	1.9589
2/23/2018 19:30:18	Continuing Calibration Blank	Sr (216.596 nm)	0.0010 (ppm)	14.29	0.0010 (ppm)	8.9896
2/23/2018 19:30:18	Continuing Calibration Blank	Ti (336.122 nm)	0.0017 (ppm)	0.52	0.0017 (ppm)	-137.1615
2/23/2018 19:30:18	Continuing Calibration Blank	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	17.7497
2/23/2018 19:30:18	Continuing Calibration Blank	V (292.401 nm)	0.0007 (ppm)	6.56	0.0007 (ppm)	123.1000
2/23/2018 19:30:18	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.56	1.02 (Ratio)	1008636.19
2/23/2018 19:30:18	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.56	1.02 (Ratio)	1009941.84
2/23/2018 19:30:18	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	36.47	0.0003 (ppm)	-20.5894
2/23/2018 19:33:39	PBS-308694	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-122.0972
2/23/2018 19:33:39	PBS-308694	Al (394.401 nm)	0.0072 (ppm)	11.08	0.0072 (ppm)	170.8729
2/23/2018 19:33:39	PBS-308694	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.5969
2/23/2018 19:33:39	PBS-308694	B (249.772 nm)	0.0019 (ppm)	6.39	0.0019 (ppm)	145.1079
2/23/2018 19:33:39	PBS-308694	Ba (230.424 nm)	0.0004 (ppm)	9.70	0.0004 (ppm)	17.3853
2/23/2018 19:33:39	PBS-308694	Be (313.107 nm)	0.0000 (ppm)	8.13	0.0000 (ppm)	-538.9673
2/23/2018 19:33:39	PBS-308694	Ca (227.547 nm)	0.1407 (ppm)	8.13	0.1407 (ppm)	17.2991
2/23/2018 19:33:39	PBS-308694	Cd (214.439 nm)	0.0002 (ppm)	25.74	0.0002 (ppm)	20.1238
2/23/2018 19:33:39	PBS-308694	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.1126
2/23/2018 19:33:39	PBS-308694	Cr (267.716 nm)	0.0005 (ppm)	5.35	0.0005 (ppm)	19.4608
2/23/2018 19:33:39	PBS-308694	Cu (327.395 nm)	0.0067 (ppm)	1.66	0.0067 (ppm)	500.5030
2/23/2018 19:33:39	PBS-308694	Fe (234.350 nm)	0.0274 (ppm)	0.91	0.0274 (ppm)	327.4314
2/23/2018 19:33:39	PBS-308694	K (766.491 nm)	0.0370 (ppm)	6.05	0.0370 (ppm)	132.8783
2/23/2018 19:33:39	PBS-308694	Mg (279.078 nm)	0.0332 (ppm)	2.31	0.0332 (ppm)	64.2034
2/23/2018 19:33:39	PBS-308694	Mn (257.610 nm)	0.0019 (ppm)	0.93	0.0019 (ppm)	623.0288
2/23/2018 19:33:39	PBS-308694	Mo (202.032 nm)	0.0012 (ppm)	30.39	0.0012 (ppm)	16.5762
2/23/2018 19:33:39	PBS-308694	Na (588.995 nm)	0.1620 (ppm)	1.64	0.1620 (ppm)	4168.4873
2/23/2018 19:33:39	PBS-308694	Ni (230.299 nm)	-0.0002 u (ppm)	73.91	-0.0002 (ppm)	-24.4907
2/23/2018 19:33:39	PBS-308694	Pb (220.353 nm)	0.0007 (ppm)	50.41	0.0007 (ppm)	7.2558
2/23/2018 19:33:39	PBS-308694	Sb (217.582 nm)	0.0035 (ppm)	23.79	0.0035 (ppm)	4.0133
2/23/2018 19:33:39	PBS-308694	Se (196.026 nm)	0.0009 (ppm)	95.40	0.0009 (ppm)	-1.0653
2/23/2018 19:33:39	PBS-308694	Sn (189.925 nm)	0.0124 (ppm)	6.53	0.0124 (ppm)	16.3005
2/23/2018 19:33:39	PBS-308694	Sr (216.596 nm)	0.0004 (ppm)	33.99	0.0004 (ppm)	1.1528
2/23/2018 19:33:39	PBS-308694	Ti (336.122 nm)	0.0002 (ppm)	53.78	0.0002 (ppm)	-479.9445
2/23/2018 19:33:39	PBS-308694	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	17.9502
2/23/2018 19:33:39	PBS-308694	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	100.5450
2/23/2018 19:33:39	PBS-308694	Y (360.074 nm)	1.02 (Ratio)	0.97	1.02 (Ratio)	1013028.80
2/23/2018 19:33:39	PBS-308694	Y_R (360.074 nm)	1.02 (Ratio)	0.97	1.02 (Ratio)	1014357.67
2/23/2018 19:33:39	PBS-308694	Zn (213.857 nm)	0.0031 (ppm)	3.43	0.0031 (ppm)	62.4376
2/23/2018 19:37:00	LCSS-308694	Ag (328.068 nm)	0.0469 (ppm)	0.30	0.0469 (ppm)	3527.4361
2/23/2018 19:37:00	LCSS-308694	Al (394.401 nm)	1.7673 (ppm)	0.31	1.7673 (ppm)	25633.5838
2/23/2018 19:37:00	LCSS-308694	As (188.980 nm)	0.0386 (ppm)	10.21	0.0386 (ppm)	33.5314
2/23/2018 19:37:00	LCSS-308694	B (249.772 nm)	0.9049 (ppm)	0.13	0.9049 (ppm)	27598.7345
2/23/2018 19:37:00	LCSS-308694	Ba (230.424 nm)	2.0475 (ppm)	0.34	2.0475 (ppm)	71573.8827
2/23/2018 19:37:00	LCSS-308694	Be (313.107 nm)	0.0482 (ppm)	0.19	0.0482 (ppm)	72031.5482
2/23/2018 19:37:00	LCSS-308694	Ca (227.547 nm)	1.8647 (ppm)	2.77	1.8647 (ppm)	137.8029
2/23/2018 19:37:00	LCSS-308694	Cd (214.439 nm)	0.0496 (ppm)	0.92	0.0496 (ppm)	1079.1098
2/23/2018 19:37:00	LCSS-308694	Co (230.786 nm)	0.5004 (ppm)	0.46	0.5004 (ppm)	5322.7079
2/23/2018 19:37:00	LCSS-308694	Cr (267.716 nm)	0.2075 (ppm)	0.37	0.2075 (ppm)	10031.5825
2/23/2018 19:37:00	LCSS-308694	Cu (327.395 nm)	0.2412 (ppm)	0.61	0.2412 (ppm)	16980.0929

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:37:00	LCSS-308694	Fe (234.350 nm)	1.0161 (ppm)	0.29	1.0161 (ppm)	11452.6085
2/23/2018 19:37:00	LCSS-308694	K (766.491 nm)	18.2714 (ppm)	0.73	18.2714 (ppm)	67215.0179
2/23/2018 19:37:00	LCSS-308694	Mg (279.078 nm)	1.8983 (ppm)	0.28	1.8983 (ppm)	3915.6236
2/23/2018 19:37:00	LCSS-308694	Mn (257.610 nm)	0.5036 (ppm)	0.25	0.5036 (ppm)	163492.9134
2/23/2018 19:37:00	LCSS-308694	Mo (202.032 nm)	0.4890 (ppm)	0.34	0.4890 (ppm)	5123.9854
2/23/2018 19:37:00	LCSS-308694	Na (588.995 nm)	19.2471 (ppm)	0.79	19.2471 (ppm)	1035978.0358
2/23/2018 19:37:00	LCSS-308694	Ni (230.299 nm)	0.4876 (ppm)	0.34	0.4876 (ppm)	3456.1031
2/23/2018 19:37:00	LCSS-308694	Pb (220.353 nm)	0.4880 (ppm)	0.52	0.4880 (ppm)	1118.5166
2/23/2018 19:37:00	LCSS-308694	Sb (217.582 nm)	0.4386 (ppm)	0.34	0.4386 (ppm)	696.4852
2/23/2018 19:37:00	LCSS-308694	Se (196.026 nm)	0.9027 (ppm)	0.27	0.9027 (ppm)	856.8712
2/23/2018 19:37:00	LCSS-308694	Sn (189.925 nm)	4.8028 (ppm)	0.51	4.8028 (ppm)	5918.1627
2/23/2018 19:37:00	LCSS-308694	Sr (216.596 nm)	2.0396 (ppm)	0.65	2.0396 (ppm)	28241.7237
2/23/2018 19:37:00	LCSS-308694	Ti (336.122 nm)	0.4925 (ppm)	0.07	0.4925 (ppm)	110018.7604
2/23/2018 19:37:00	LCSS-308694	Tl (351.923 nm)	1.7698 (ppm)	0.29	1.7698 (ppm)	5322.8629
2/23/2018 19:37:00	LCSS-308694	V (292.401 nm)	0.4921 (ppm)	0.14	0.4921 (ppm)	18919.7977
2/23/2018 19:37:00	LCSS-308694	Y (360.074 nm)	0.99 (Ratio)	0.84	0.99 (Ratio)	983352.82
2/23/2018 19:37:00	LCSS-308694	Y_R (360.074 nm)	0.99 (Ratio)	0.84	0.99 (Ratio)	984767.15
2/23/2018 19:37:00	LCSS-308694	Zn (213.857 nm)	0.4642 (ppm)	0.43	0.4642 (ppm)	13994.1595
2/23/2018 19:40:21	R1801417-004	Ag (328.068 nm)	0.0026 (ppm)	1.79	0.0026 (ppm)	84.5623
2/23/2018 19:40:21	R1801417-004	Al (394.401 nm)	0.2897 (ppm)	0.21	0.2897 (ppm)	4256.9160
2/23/2018 19:40:21	R1801417-004	As (188.980 nm)	0.0016 (ppm)	30.31	0.0016 (ppm)	-1.1555
2/23/2018 19:40:21	R1801417-004	B (249.772 nm)	0.2292 (ppm)	0.27	0.2292 (ppm)	7056.3597
2/23/2018 19:40:21	R1801417-004	Ba (230.424 nm)	0.0118 (ppm)	1.67	0.0118 (ppm)	418.0500
2/23/2018 19:40:21	R1801417-004	Be (313.107 nm)	0.0000 (ppm)	26.11	0.0000 (ppm)	-535.2353
2/23/2018 19:40:21	R1801417-004	Ca (227.547 nm)	6.5633 (ppm)	1.38	6.5633 (ppm)	466.2103
2/23/2018 19:40:21	R1801417-004	Cd (214.439 nm)	0.0004 (ppm)	3.99	0.0004 (ppm)	24.8697
2/23/2018 19:40:21	R1801417-004	Co (230.786 nm)	0.0006 (ppm)	13.84	0.0006 (ppm)	0.7239
2/23/2018 19:40:21	R1801417-004	Cr (267.716 nm)	0.0439 (ppm)	0.13	0.0439 (ppm)	2117.1239
2/23/2018 19:40:21	R1801417-004	Cu (327.395 nm)	0.0971 (ppm)	0.31	0.0971 (ppm)	6849.4478
2/23/2018 19:40:21	R1801417-004	Fe (234.350 nm)	3.5109 (ppm)	0.41	3.5109 (ppm)	39526.9324
2/23/2018 19:40:21	R1801417-004	K (766.491 nm)	4.0195 (ppm)	0.55	4.0195 (ppm)	14784.0023
2/23/2018 19:40:21	R1801417-004	Mg (279.078 nm)	1.7732 (ppm)	0.23	1.7732 (ppm)	3657.3280
2/23/2018 19:40:21	R1801417-004	Mn (257.610 nm)	0.0709 (ppm)	0.29	0.0709 (ppm)	23024.2743
2/23/2018 19:40:21	R1801417-004	Mo (202.032 nm)	0.0117 (ppm)	1.92	0.0117 (ppm)	126.3383
2/23/2018 19:40:21	R1801417-004	Na (588.995 nm)	73.7757 (ppm)	0.84	73.7757 (ppm)	3983989.8932
2/23/2018 19:40:21	R1801417-004	Ni (230.299 nm)	0.0197 (ppm)	1.83	0.0197 (ppm)	117.3092
2/23/2018 19:40:21	R1801417-004	Pb (220.353 nm)	0.0112 (ppm)	5.53	0.0112 (ppm)	31.1850
2/23/2018 19:40:21	R1801417-004	Sb (217.582 nm)	0.0034 (ppm)	23.06	0.0034 (ppm)	3.9528
2/23/2018 19:40:21	R1801417-004	Se (196.026 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	-0.5811
2/23/2018 19:40:21	R1801417-004	Sn (189.925 nm)	0.0144 (ppm)	3.25	0.0144 (ppm)	18.7971
2/23/2018 19:40:21	R1801417-004	Sr (216.596 nm)	0.0556 (ppm)	1.20	0.0556 (ppm)	765.8938
2/23/2018 19:40:21	R1801417-004	Ti (336.122 nm)	0.0055 (ppm)	0.75	0.0055 (ppm)	705.7103
2/23/2018 19:40:21	R1801417-004	Tl (351.923 nm)	0.0010 (ppm)	> 100.00	0.0010 (ppm)	21.1186
2/23/2018 19:40:21	R1801417-004	V (292.401 nm)	0.0006 (ppm)	19.89	0.0006 (ppm)	122.0219
2/23/2018 19:40:21	R1801417-004	Y (360.074 nm)	0.97 (Ratio)	0.80	0.97 (Ratio)	961944.14
2/23/2018 19:40:21	R1801417-004	Y_R (360.074 nm)	0.97 (Ratio)	0.80	0.97 (Ratio)	963353.93
2/23/2018 19:40:21	R1801417-004	Zn (213.857 nm)	0.5023 (ppm)	0.70	0.5023 (ppm)	15142.9677
2/23/2018 19:43:42	R1801417-004S	Ag (328.068 nm)	0.0495 (ppm)	0.38	0.0495 (ppm)	3725.0489
2/23/2018 19:43:42	R1801417-004S	Al (394.401 nm)	2.1601 (ppm)	0.09	2.1601 (ppm)	31317.4680
2/23/2018 19:43:42	R1801417-004S	As (188.980 nm)	0.0379 (ppm)	8.17	0.0379 (ppm)	32.8641
2/23/2018 19:43:42	R1801417-004S	B (249.772 nm)	1.1382 (ppm)	0.11	1.1382 (ppm)	34692.0176



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:43:42	R1801417-004S	Ba (230.424 nm)	1.9952 (ppm)	0.86	1.9952 (ppm)	69743.7498
2/23/2018 19:43:42	R1801417-004S	Be (313.107 nm)	0.0473 (ppm)	0.36	0.0473 (ppm)	70773.4035
2/23/2018 19:43:42	R1801417-004S	Ca (227.547 nm)	8.9881 (ppm)	0.40	8.9881 (ppm)	635.6967
2/23/2018 19:43:42	R1801417-004S	Cd (214.439 nm)	0.0480 (ppm)	0.98	0.0480 (ppm)	1043.7074
2/23/2018 19:43:42	R1801417-004S	Co (230.786 nm)	0.4874 (ppm)	0.45	0.4874 (ppm)	5184.0506
2/23/2018 19:43:42	R1801417-004S	Cr (267.716 nm)	0.2463 (ppm)	0.37	0.2463 (ppm)	11910.6953
2/23/2018 19:43:42	R1801417-004S	Cu (327.395 nm)	0.3471 (ppm)	0.23	0.3471 (ppm)	24422.1959
2/23/2018 19:43:42	R1801417-004S	Fe (234.350 nm)	4.6182 (ppm)	0.46	4.6182 (ppm)	51986.8502
2/23/2018 19:43:42	R1801417-004S	K (766.491 nm)	23.2866 (ppm)	0.46	23.2866 (ppm)	85665.5743
2/23/2018 19:43:42	R1801417-004S	Mg (279.078 nm)	3.6655 (ppm)	0.32	3.6655 (ppm)	7565.0397
2/23/2018 19:43:42	R1801417-004S	Mn (257.610 nm)	0.5627 (ppm)	0.38	0.5627 (ppm)	182680.2807
2/23/2018 19:43:42	R1801417-004S	Mo (202.032 nm)	0.4872 (ppm)	0.31	0.4872 (ppm)	5105.6824
2/23/2018 19:43:42	R1801417-004S	Na (588.995 nm)	93.9530 (ppm)	0.63	93.9530 (ppm)	5074850.7716
2/23/2018 19:43:42	R1801417-004S	Ni (230.299 nm)	0.4896 (ppm)	0.40	0.4896 (ppm)	3470.3316
2/23/2018 19:43:42	R1801417-004S	Pb (220.353 nm)	0.4782 (ppm)	0.41	0.4782 (ppm)	1096.2225
2/23/2018 19:43:42	R1801417-004S	Sb (217.582 nm)	0.4329 (ppm)	0.41	0.4329 (ppm)	687.5076
2/23/2018 19:43:42	R1801417-004S	Se (196.026 nm)	0.9128 (ppm)	0.13	0.9128 (ppm)	866.4866
2/23/2018 19:43:42	R1801417-004S	Sn (189.925 nm)	4.6498 (ppm)	0.81	4.6498 (ppm)	5729.6954
2/23/2018 19:43:42	R1801417-004S	Sr (216.596 nm)	2.0300 (ppm)	0.53	2.0300 (ppm)	28108.9247
2/23/2018 19:43:42	R1801417-004S	Ti (336.122 nm)	0.4794 (ppm)	0.20	0.4794 (ppm)	107076.9148
2/23/2018 19:43:42	R1801417-004S	Tl (351.923 nm)	1.7921 (ppm)	0.03	1.7921 (ppm)	5389.4336
2/23/2018 19:43:42	R1801417-004S	V (292.401 nm)	0.4816 (ppm)	0.33	0.4816 (ppm)	18519.5078
2/23/2018 19:43:42	R1801417-004S	Y (360.074 nm)	0.96 (Ratio)	0.80	0.96 (Ratio)	947407.59
2/23/2018 19:43:42	R1801417-004S	Y_R (360.074 nm)	0.96 (Ratio)	0.80	0.96 (Ratio)	948794.39
2/23/2018 19:43:42	R1801417-004S	Zn (213.857 nm)	0.9823 (ppm)	0.36	0.9823 (ppm)	29644.2746
2/23/2018 19:47:03	R1801417-004SD	Ag (328.068 nm)	0.0507 (ppm)	0.36	0.0507 (ppm)	3817.3284
2/23/2018 19:47:03	R1801417-004SD	Al (394.401 nm)	2.2412 (ppm)	0.44	2.2412 (ppm)	32490.2919
2/23/2018 19:47:03	R1801417-004SD	As (188.980 nm)	0.0387 (ppm)	10.08	0.0387 (ppm)	33.6090
2/23/2018 19:47:03	R1801417-004SD	B (249.772 nm)	1.1988 (ppm)	0.06	1.1988 (ppm)	36535.7304
2/23/2018 19:47:03	R1801417-004SD	Ba (230.424 nm)	2.0247 (ppm)	0.52	2.0247 (ppm)	70774.6833
2/23/2018 19:47:03	R1801417-004SD	Be (313.107 nm)	0.0480 (ppm)	0.18	0.0480 (ppm)	71765.7051
2/23/2018 19:47:03	R1801417-004SD	Ca (227.547 nm)	9.8908 (ppm)	0.97	9.8908 (ppm)	698.7900
2/23/2018 19:47:03	R1801417-004SD	Cd (214.439 nm)	0.0488 (ppm)	0.48	0.0488 (ppm)	1062.5879
2/23/2018 19:47:03	R1801417-004SD	Co (230.786 nm)	0.4941 (ppm)	0.14	0.4941 (ppm)	5255.5381
2/23/2018 19:47:03	R1801417-004SD	Cr (267.716 nm)	0.2574 (ppm)	0.37	0.2574 (ppm)	12447.9154
2/23/2018 19:47:03	R1801417-004SD	Cu (327.395 nm)	0.3698 (ppm)	0.30	0.3698 (ppm)	26022.3159
2/23/2018 19:47:03	R1801417-004SD	Fe (234.350 nm)	5.0690 (ppm)	0.29	5.0690 (ppm)	57059.6655
2/23/2018 19:47:03	R1801417-004SD	K (766.491 nm)	23.7224 (ppm)	0.81	23.7224 (ppm)	87268.8173
2/23/2018 19:47:03	R1801417-004SD	Mg (279.078 nm)	3.8235 (ppm)	0.33	3.8235 (ppm)	7891.3216
2/23/2018 19:47:03	R1801417-004SD	Mn (257.610 nm)	0.5773 (ppm)	0.33	0.5773 (ppm)	187408.2609
2/23/2018 19:47:03	R1801417-004SD	Mo (202.032 nm)	0.4944 (ppm)	0.35	0.4944 (ppm)	5181.0464
2/23/2018 19:47:03	R1801417-004SD	Na (588.995 nm)	95.9389 (ppm)	0.91	95.9389 (ppm)	5182217.8564
2/23/2018 19:47:03	R1801417-004SD	Ni (230.299 nm)	0.4971 (ppm)	0.62	0.4971 (ppm)	3524.0091
2/23/2018 19:47:03	R1801417-004SD	Pb (220.353 nm)	0.4878 (ppm)	0.67	0.4878 (ppm)	1118.0867
2/23/2018 19:47:03	R1801417-004SD	Sb (217.582 nm)	0.4391 (ppm)	0.80	0.4391 (ppm)	697.2730
2/23/2018 19:47:03	R1801417-004SD	Se (196.026 nm)	0.9226 (ppm)	0.56	0.9226 (ppm)	875.7854
2/23/2018 19:47:03	R1801417-004SD	Sn (189.925 nm)	4.7124 (ppm)	0.48	4.7124 (ppm)	5806.8043
2/23/2018 19:47:03	R1801417-004SD	Sr (216.596 nm)	2.0672 (ppm)	0.40	2.0672 (ppm)	28624.9011
2/23/2018 19:47:03	R1801417-004SD	Ti (336.122 nm)	0.4810 (ppm)	0.09	0.4810 (ppm)	10744.18456
2/23/2018 19:47:03	R1801417-004SD	Tl (351.923 nm)	1.8175 (ppm)	0.22	1.8175 (ppm)	5465.7346
2/23/2018 19:47:03	R1801417-004SD	V (292.401 nm)	0.4883 (ppm)	0.17	0.4883 (ppm)	18772.5176

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:47:03	R1801417-004SD	Y (360.074 nm)	0.96 (Ratio)	0.99	0.96 (Ratio)	947171.72
2/23/2018 19:47:03	R1801417-004SD	Y_R (360.074 nm)	0.96 (Ratio)	0.99	0.96 (Ratio)	948559.95
2/23/2018 19:47:03	R1801417-004SD	Zn (213.857 nm)	1.0683 (ppm)	0.40	1.0683 (ppm)	32244.4026
2/23/2018 19:50:24	R1801417-004A	Ag (328.068 nm)	0.0447 (ppm)	0.57	0.0447 (ppm)	3352.6503
2/23/2018 19:50:24	R1801417-004A	Al (394.401 nm)	2.1625 (ppm)	0.78	2.1625 (ppm)	31351.7530
2/23/2018 19:50:24	R1801417-004A	As (188.980 nm)	0.0399 (ppm)	9.93	0.0399 (ppm)	34.7433
2/23/2018 19:50:24	R1801417-004A	B (249.772 nm)	1.1555 (ppm)	0.47	1.1555 (ppm)	35218.3150
2/23/2018 19:50:24	R1801417-004A	Ba (230.424 nm)	2.0325 (ppm)	0.27	2.0325 (ppm)	71048.0420
2/23/2018 19:50:24	R1801417-004A	Be (313.107 nm)	0.0482 (ppm)	0.41	0.0482 (ppm)	72120.1704
2/23/2018 19:50:24	R1801417-004A	Ca (227.547 nm)	8.3457 (ppm)	1.16	8.3457 (ppm)	590.7922
2/23/2018 19:50:24	R1801417-004A	Cd (214.439 nm)	0.0492 (ppm)	0.18	0.0492 (ppm)	1070.3283
2/23/2018 19:50:24	R1801417-004A	Co (230.786 nm)	0.4981 (ppm)	0.26	0.4981 (ppm)	5297.8901
2/23/2018 19:50:24	R1801417-004A	Cr (267.716 nm)	0.2464 (ppm)	0.43	0.2464 (ppm)	11915.3799
2/23/2018 19:50:24	R1801417-004A	Cu (327.395 nm)	0.3409 (ppm)	0.71	0.3409 (ppm)	23991.5016
2/23/2018 19:50:24	R1801417-004A	Fe (234.350 nm)	4.4068 (ppm)	0.38	4.4068 (ppm)	49607.9052
2/23/2018 19:50:24	R1801417-004A	K (766.491 nm)	23.3382 (ppm)	1.06	23.3382 (ppm)	85855.1421
2/23/2018 19:50:24	R1801417-004A	Mg (279.078 nm)	3.5774 (ppm)	0.38	3.5774 (ppm)	7383.1309
2/23/2018 19:50:24	R1801417-004A	Mn (257.610 nm)	0.5664 (ppm)	0.40	0.5664 (ppm)	183860.2764
2/23/2018 19:50:24	R1801417-004A	Mo (202.032 nm)	0.4984 (ppm)	0.31	0.4984 (ppm)	5223.0651
2/23/2018 19:50:24	R1801417-004A	Na (588.995 nm)	90.0864 (ppm)	1.20	90.0864 (ppm)	4865808.1799
2/23/2018 19:50:24	R1801417-004A	Ni (230.299 nm)	0.4976 (ppm)	0.19	0.4976 (ppm)	3527.2217
2/23/2018 19:50:24	R1801417-004A	Pb (220.353 nm)	0.4904 (ppm)	0.54	0.4904 (ppm)	1124.0235
2/23/2018 19:50:24	R1801417-004A	Sb (217.582 nm)	0.4705 (ppm)	0.62	0.4705 (ppm)	747.2438
2/23/2018 19:50:24	R1801417-004A	Se (196.026 nm)	0.9946 (ppm)	0.68	0.9946 (ppm)	944.3552
2/23/2018 19:50:24	R1801417-004A	Sn (189.925 nm)	4.9425 (ppm)	0.42	4.9425 (ppm)	6090.3086
2/23/2018 19:50:24	R1801417-004A	Sr (216.596 nm)	2.2095 (ppm)	0.08	2.2095 (ppm)	30595.1821
2/23/2018 19:50:24	R1801417-004A	Ti (336.122 nm)	0.4989 (ppm)	0.59	0.4989 (ppm)	111474.5089
2/23/2018 19:50:24	R1801417-004A	Tl (351.923 nm)	1.8320 (ppm)	0.58	1.8320 (ppm)	5509.1448
2/23/2018 19:50:24	R1801417-004A	V (292.401 nm)	0.4912 (ppm)	0.48	0.4912 (ppm)	18884.9367
2/23/2018 19:50:24	R1801417-004A	Y (360.074 nm)	0.96 (Ratio)	1.43	0.96 (Ratio)	948921.43
2/23/2018 19:50:24	R1801417-004A	Y_R (360.074 nm)	0.96 (Ratio)	1.43	0.96 (Ratio)	950311.31
2/23/2018 19:50:24	R1801417-004A	Zn (213.857 nm)	0.9617 (ppm)	0.21	0.9617 (ppm)	29023.9780
2/23/2018 19:53:45	R1801417-004L	Ag (328.068 nm)	0.0004 (ppm)	9.65	0.0004 (ppm)	-86.8673
2/23/2018 19:53:45	R1801417-004L	Al (394.401 nm)	0.0570 (ppm)	1.32	0.0570 (ppm)	890.4403
2/23/2018 19:53:45	R1801417-004L	As (188.980 nm)	0.0017 (ppm)	90.97	0.0017 (ppm)	-1.0710
2/23/2018 19:53:45	R1801417-004L	B (249.772 nm)	0.0473 (ppm)	0.70	0.0473 (ppm)	1524.1010
2/23/2018 19:53:45	R1801417-004L	Ba (230.424 nm)	0.0024 (ppm)	1.92	0.0024 (ppm)	87.3155
2/23/2018 19:53:45	R1801417-004L	Be (313.107 nm)	0.0000 (ppm)	49.43	0.0000 (ppm)	-541.2294
2/23/2018 19:53:45	R1801417-004L	Ca (227.547 nm)	1.3193 (ppm)	0.43	1.3193 (ppm)	99.6784
2/23/2018 19:53:45	R1801417-004L	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	16.7393
2/23/2018 19:53:45	R1801417-004L	Co (230.786 nm)	0.0002 (ppm)	95.09	0.0002 (ppm)	-3.1489
2/23/2018 19:53:45	R1801417-004L	Cr (267.716 nm)	0.0087 (ppm)	1.18	0.0087 (ppm)	415.6491
2/23/2018 19:53:45	R1801417-004L	Cu (327.395 nm)	0.0194 (ppm)	0.83	0.0194 (ppm)	1390.6089
2/23/2018 19:53:45	R1801417-004L	Fe (234.350 nm)	0.7120 (ppm)	0.15	0.7120 (ppm)	8031.7061
2/23/2018 19:53:45	R1801417-004L	K (766.491 nm)	0.8074 (ppm)	1.44	0.8074 (ppm)	2967.1077
2/23/2018 19:53:45	R1801417-004L	Mg (279.078 nm)	0.3665 (ppm)	0.44	0.3665 (ppm)	752.4864
2/23/2018 19:53:45	R1801417-004L	Mn (257.610 nm)	0.0145 (ppm)	0.30	0.0145 (ppm)	4705.3271
2/23/2018 19:53:45	R1801417-004L	Mo (202.032 nm)	0.0029 (ppm)	11.38	0.0029 (ppm)	33.6561
2/23/2018 19:53:45	R1801417-004L	Na (588.995 nm)	15.4059 (ppm)	0.92	15.4059 (ppm)	828304.9606
2/23/2018 19:53:45	R1801417-004L	Ni (230.299 nm)	0.0038 (ppm)	6.81	0.0038 (ppm)	3.7272
2/23/2018 19:53:45	R1801417-004L	Pb (220.353 nm)	0.0015 (ppm)	75.29	0.0015 (ppm)	9.1960

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 19:53:45	R1801417-004L	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	0.7600
2/23/2018 19:53:45	R1801417-004L	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.5644
2/23/2018 19:53:45	R1801417-004L	Sn (189.925 nm)	0.0022 (ppm)	45.48	0.0022 (ppm)	3.7730
2/23/2018 19:53:45	R1801417-004L	Sr (216.596 nm)	0.0117 (ppm)	1.45	0.0117 (ppm)	157.1501
2/23/2018 19:53:45	R1801417-004L	Ti (336.122 nm)	0.0014 (ppm)	2.63	0.0014 (ppm)	-207.8950
2/23/2018 19:53:45	R1801417-004L	Tl (351.923 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	22.2472
2/23/2018 19:53:45	R1801417-004L	V (292.401 nm)	0.0002 (ppm)	76.55	0.0002 (ppm)	105.0368
2/23/2018 19:53:45	R1801417-004L	Y (360.074 nm)	1.01 (Ratio)	0.54	1.01 (Ratio)	1001833.35
2/23/2018 19:53:45	R1801417-004L	Y_R (360.074 nm)	1.01 (Ratio)	0.54	1.01 (Ratio)	1003219.13
2/23/2018 19:53:45	R1801417-004L	Zn (213.857 nm)	0.1019 (ppm)	0.56	0.1019 (ppm)	3048.5068
2/23/2018 19:57:05	R1801417-006	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-120.1488
2/23/2018 19:57:05	R1801417-006	Al (394.401 nm)	116.6299 o (ppm)	0.15	116.6299 (ppm)	1687362.7880
2/23/2018 19:57:05	R1801417-006	As (188.980 nm)	0.0427 (ppm)	4.59	0.0427 (ppm)	37.3381
2/23/2018 19:57:05	R1801417-006	B (249.772 nm)	0.1061 (ppm)	0.80	0.1061 (ppm)	3312.0658
2/23/2018 19:57:05	R1801417-006	Ba (230.424 nm)	0.5877 (ppm)	0.67	0.5877 (ppm)	20548.1380
2/23/2018 19:57:05	R1801417-006	Be (313.107 nm)	0.0045 (ppm)	0.50	0.0045 (ppm)	6246.1606
2/23/2018 19:57:05	R1801417-006	Ca (227.547 nm)	27.7503 (ppm)	0.11	27.7503 (ppm)	1947.0970
2/23/2018 19:57:05	R1801417-006	Cd (214.439 nm)	0.0027 (ppm)	7.56	0.0027 (ppm)	72.7829
2/23/2018 19:57:05	R1801417-006	Co (230.786 nm)	0.0686 (ppm)	1.82	0.0686 (ppm)	724.8648
2/23/2018 19:57:05	R1801417-006	Cr (267.716 nm)	0.1667 (ppm)	0.60	0.1667 (ppm)	8057.1255
2/23/2018 19:57:05	R1801417-006	Cu (327.395 nm)	0.1323 (ppm)	0.17	0.1323 (ppm)	9327.0116
2/23/2018 19:57:05	R1801417-006	Fe (234.350 nm)	197.3593 o (ppm)	0.32	197.3593 (ppm)	2220874.6012
2/23/2018 19:57:05	R1801417-006	K (766.491 nm)	19.8650 (ppm)	0.56	19.8650 (ppm)	73077.9375
2/23/2018 19:57:05	R1801417-006	Mg (279.078 nm)	42.2712 (ppm)	0.56	42.2712 (ppm)	87286.3933
2/23/2018 19:57:05	R1801417-006	Mn (257.610 nm)	2.8257 o (ppm)	0.46	2.8257 (ppm)	917289.2340
2/23/2018 19:57:05	R1801417-006	Mo (202.032 nm)	0.0097 (ppm)	2.72	0.0097 (ppm)	104.8340
2/23/2018 19:57:05	R1801417-006	Nb (588.995 nm)	2.0530 (ppm)	0.82	2.0530 (ppm)	106398.1224
2/23/2018 19:57:05	R1801417-006	Ni (230.289 nm)	0.1746 (ppm)	0.57	0.1746 (ppm)	1222.2698
2/23/2018 19:57:05	R1801417-006	Pb (220.353 nm)	0.1017 (ppm)	1.33	0.1017 (ppm)	237.6910
2/23/2018 19:57:05	R1801417-006	Sb (217.582 nm)	-0.0035 u (ppm)	> 100.00	-0.0035 (ppm)	-7.0317
2/23/2018 19:57:05	R1801417-006	Se (196.026 nm)	0.0058 u (ppm)	> 100.00	0.0058 (ppm)	3.6647
2/23/2018 19:57:05	R1801417-006	Sn (189.925 nm)	0.0133 (ppm)	10.64	0.0133 (ppm)	17.4353
2/23/2018 19:57:05	R1801417-006	Sr (216.596 nm)	0.1353 (ppm)	0.84	0.1353 (ppm)	1869.5073
2/23/2018 19:57:05	R1801417-006	Ti (336.122 nm)	0.7531 (ppm)	0.13	0.7531 (ppm)	168514.8875
2/23/2018 19:57:05	R1801417-006	Tl (351.923 nm)	-0.0157 u (ppm)	12.68	-0.0157 (ppm)	-28.7800
2/23/2018 19:57:05	R1801417-006	V (292.401 nm)	0.2060 (ppm)	0.50	0.2060 (ppm)	7976.7192
2/23/2018 19:57:05	R1801417-006	Y (360.074 nm)	0.98 (Ratio)	0.74	0.98 (Ratio)	970093.61
2/23/2018 19:57:05	R1801417-006	Y_R (360.074 nm)	0.98 (Ratio)	0.73	0.98 (Ratio)	971482.53
2/23/2018 19:57:05	R1801417-006	Zn (213.857 nm)	0.5161 (ppm)	0.65	0.5161 (ppm)	15559.8373
2/23/2018 20:00:26	R1801417-008	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-115.9472
2/23/2018 20:00:26	R1801417-008	Al (394.401 nm)	64.6322 o (ppm)	1.27	64.6322 (ppm)	935107.2174
2/23/2018 20:00:26	R1801417-008	As (188.980 nm)	0.0428 (ppm)	4.93	0.0428 (ppm)	37.4813
2/23/2018 20:00:26	R1801417-008	B (249.772 nm)	0.0876 (ppm)	1.26	0.0876 (ppm)	2750.0486
2/23/2018 20:00:26	R1801417-008	Ba (230.424 nm)	0.3063 (ppm)	1.48	0.3063 (ppm)	10712.6286
2/23/2018 20:00:26	R1801417-008	Be (313.107 nm)	0.0028 (ppm)	1.46	0.0028 (ppm)	3686.1764
2/23/2018 20:00:26	R1801417-008	Ca (227.547 nm)	423.4163 o (ppm)	0.93	423.4163 (ppm)	29602.4834
2/23/2018 20:00:26	R1801417-008	Cd (214.439 nm)	0.0025 (ppm)	0.35	0.0025 (ppm)	68.2509
2/23/2018 20:00:26	R1801417-008	Co (230.786 nm)	0.0515 (ppm)	1.51	0.0515 (ppm)	542.4697
2/23/2018 20:00:26	R1801417-008	Cr (267.716 nm)	0.0969 (ppm)	1.15	0.0969 (ppm)	4681.9040
2/23/2018 20:00:26	R1801417-008	Cu (327.395 nm)	0.1394 (ppm)	1.23	0.1394 (ppm)	9825.8251
2/23/2018 20:00:26	R1801417-008	Fe (234.350 nm)	118.5334 o (ppm)	1.60	118.5334 (ppm)	1333858.6178

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:00:26	R1801417-008	K (766.491 nm)	11.6293 (ppm)	1.08	11.6293 (ppm)	42779.7460
2/23/2018 20:00:26	R1801417-008	Mg (279.078 nm)	149.3731 o (ppm)	1.44	149.3731 (ppm)	308453.3731
2/23/2018 20:00:26	R1801417-008	Mn (257.610 nm)	2.8088 o (ppm)	1.54	2.8088 (ppm)	911817.8909
2/23/2018 20:00:26	R1801417-008	Mo (202.032 nm)	0.0108 (ppm)	3.27	0.0108 (ppm)	116.4396
2/23/2018 20:00:26	R1801417-008	Na (588.995 nm)	1.9346 (ppm)	1.02	1.9346 (ppm)	99996.7920
2/23/2018 20:00:26	R1801417-008	Ni (230.299 nm)	0.1191 (ppm)	1.67	0.1191 (ppm)	826.3386
2/23/2018 20:00:26	R1801417-008	Pb (220.353 nm)	0.0985 (ppm)	2.82	0.0985 (ppm)	230.3489
2/23/2018 20:00:26	R1801417-008	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-2.1372
2/23/2018 20:00:26	R1801417-008	Se (196.026 nm)	0.0034 u (ppm)	> 100.00	0.0034 (ppm)	1.3574
2/23/2018 20:00:26	R1801417-008	Sn (189.925 nm)	0.0105 (ppm)	14.88	0.0105 (ppm)	14.0432
2/23/2018 20:00:26	R1801417-008	Sr (216.596 nm)	0.3831 (ppm)	1.70	0.3831 (ppm)	5301.2519
2/23/2018 20:00:26	R1801417-008	Ti (336.122 nm)	0.7826 (ppm)	1.14	0.7826 (ppm)	175145.7980
2/23/2018 20:00:26	R1801417-008	Ti (351.923 nm)	0.0013 (ppm)	71.09	0.0013 (ppm)	22.1417
2/23/2018 20:00:26	R1801417-008	V (292.401 nm)	0.1238 (ppm)	1.40	0.1238 (ppm)	4834.2993
2/23/2018 20:00:26	R1801417-008	Y (360.074 nm)	0.92 (Ratio)	0.82	0.92 (Ratio)	913885.81
2/23/2018 20:00:26	R1801417-008	Y_R (360.074 nm)	0.92 (Ratio)	0.82	0.92 (Ratio)	915229.07
2/23/2018 20:00:26	R1801417-008	Zn (213.857 nm)	0.4165 (ppm)	1.62	0.4165 (ppm)	12550.4730
2/23/2018 20:03:47	R1801417-010	Ag (328.068 nm)	-0.0002 u (ppm)	9.64	-0.0002 (ppm)	-129.9273
2/23/2018 20:03:47	R1801417-010	Al (394.401 nm)	76.1890 o (ppm)	0.23	76.1890 (ppm)	1102299.4370
2/23/2018 20:03:47	R1801417-010	As (188.980 nm)	0.0474 (ppm)	1.34	0.0474 (ppm)	41.7185
2/23/2018 20:03:47	R1801417-010	B (249.772 nm)	0.0935 (ppm)	0.92	0.0935 (ppm)	2929.6590
2/23/2018 20:03:47	R1801417-010	Ba (230.424 nm)	0.3911 (ppm)	0.19	0.3911 (ppm)	13675.2036
2/23/2018 20:03:47	R1801417-010	Be (313.107 nm)	0.0033 (ppm)	0.75	0.0033 (ppm)	4343.5735
2/23/2018 20:03:47	R1801417-010	Ca (227.547 nm)	368.7809 o (ppm)	0.26	368.7809 (ppm)	25783.7014
2/23/2018 20:03:47	R1801417-010	Cd (214.439 nm)	0.0028 (ppm)	8.01	0.0028 (ppm)	74.5549
2/23/2018 20:03:47	R1801417-010	Co (230.786 nm)	0.0564 (ppm)	0.89	0.0564 (ppm)	594.6195
2/23/2018 20:03:47	R1801417-010	Cr (267.716 nm)	0.1103 (ppm)	0.47	0.1103 (ppm)	5330.2154
2/23/2018 20:03:47	R1801417-010	Cu (327.395 nm)	0.1628 (ppm)	0.75	0.1628 (ppm)	11469.5703
2/23/2018 20:03:47	R1801417-010	Fe (234.350 nm)	133.9717 o (ppm)	0.66	133.9717 (ppm)	1507583.7379
2/23/2018 20:03:47	R1801417-010	K (766.491 nm)	11.5311 (ppm)	0.51	11.5311 (ppm)	42418.5724
2/23/2018 20:03:47	R1801417-010	Mg (279.078 nm)	163.0894 o (ppm)	0.43	163.0894 (ppm)	336777.6605
2/23/2018 20:03:47	R1801417-010	Mn (257.610 nm)	3.3338 o (ppm)	0.37	3.3338 (ppm)	1082257.7074
2/23/2018 20:03:47	R1801417-010	Mo (202.032 nm)	0.0070 (ppm)	2.07	0.0070 (ppm)	77.0741
2/23/2018 20:03:47	R1801417-010	Na (588.995 nm)	1.6494 (ppm)	0.62	1.6494 (ppm)	84580.1806
2/23/2018 20:03:47	R1801417-010	Ni (230.299 nm)	0.1444 (ppm)	0.40	0.1444 (ppm)	1006.8292
2/23/2018 20:03:47	R1801417-010	Pb (220.353 nm)	0.0875 (ppm)	0.47	0.0875 (ppm)	205.3182
2/23/2018 20:03:47	R1801417-010	Sb (217.582 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	1.0277
2/23/2018 20:03:47	R1801417-010	Se (196.026 nm)	0.0035 (ppm)	87.01	0.0035 (ppm)	1.4332
2/23/2018 20:03:47	R1801417-010	Sn (189.925 nm)	0.0137 (ppm)	20.54	0.0137 (ppm)	17.8803
2/23/2018 20:03:47	R1801417-010	Sr (216.596 nm)	0.3230 (ppm)	0.68	0.3230 (ppm)	4468.9598
2/23/2018 20:03:47	R1801417-010	Ti (336.122 nm)	0.4171 (ppm)	0.21	0.4171 (ppm)	93105.4430
2/23/2018 20:03:47	R1801417-010	Ti (351.923 nm)	-0.0047 u (ppm)	27.19	-0.0047 (ppm)	4.0225
2/23/2018 20:03:47	R1801417-010	V (292.401 nm)	0.1393 (ppm)	0.50	0.1393 (ppm)	5426.7139
2/23/2018 20:03:47	R1801417-010	Y (360.074 nm)	0.93 (Ratio)	0.67	0.93 (Ratio)	921961.81
2/23/2018 20:03:47	R1801417-010	Y_R (360.074 nm)	0.93 (Ratio)	0.67	0.93 (Ratio)	923300.29
2/23/2018 20:03:47	R1801417-010	Zn (213.857 nm)	0.5487 (ppm)	0.56	0.5487 (ppm)	16546.9856
2/23/2018 20:07:08	Continuing Calibration Verification	Ag (328.068 nm)	0.4722 (ppm)	0.53	0.4722 (ppm)	36555.2614
2/23/2018 20:07:08	Continuing Calibration Verification	Al (394.401 nm)	9.4451 (ppm)	0.36	9.4451 (ppm)	136709.6960
2/23/2018 20:07:08	Continuing Calibration Verification	As (188.980 nm)	0.9369 (ppm)	1.29	0.9369 (ppm)	874.8190
2/23/2018 20:07:08	Continuing Calibration Verification	B (249.772 nm)	2.4101 (ppm)	0.59	2.4101 (ppm)	73360.7460
2/23/2018 20:07:08	Continuing Calibration Verification	Ba (230.424 nm)	10.0931 (ppm)	0.98	10.0931 (ppm)	352798.5491

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:07:08	Continuing Calibration Verification	Be (313.107 nm)	0.2516 (ppm)	0.54	0.2516 (ppm)	378717.0804
2/23/2018 20:07:08	Continuing Calibration Verification	Ca (227.547 nm)	23.4234 (ppm)	0.21	23.4234 (ppm)	1644.6622
2/23/2018 20:07:08	Continuing Calibration Verification	Cd (214.439 nm)	0.4874 (ppm)	0.95	0.4874 (ppm)	10464.7670
2/23/2018 20:07:08	Continuing Calibration Verification	Co (230.786 nm)	2.5227 (ppm)	0.78	2.5227 (ppm)	26857.5706
2/23/2018 20:07:08	Continuing Calibration Verification	Cr (267.716 nm)	0.5191 (ppm)	0.78	0.5191 (ppm)	25105.8532
2/23/2018 20:07:08	Continuing Calibration Verification	Cu (327.395 nm)	1.2079 (ppm)	0.30	1.2079 (ppm)	84926.1098
2/23/2018 20:07:08	Continuing Calibration Verification	Fe (234.350 nm)	4.9989 (ppm)	0.79	4.9989 (ppm)	56271.0736
2/23/2018 20:07:08	Continuing Calibration Verification	K (766.491 nm)	24.3342 (ppm)	0.23	24.3342 (ppm)	89519.5695
2/23/2018 20:07:08	Continuing Calibration Verification	Mg (279.078 nm)	24.4538 (ppm)	0.70	24.4538 (ppm)	50493.1892
2/23/2018 20:07:08	Continuing Calibration Verification	Mn (257.610 nm)	0.7585 (ppm)	0.69	0.7585 (ppm)	246222.0235
2/23/2018 20:07:08	Continuing Calibration Verification	Mo (202.032 nm)	2.3919 (ppm)	0.69	2.3919 (ppm)	25050.8365
2/23/2018 20:07:08	Continuing Calibration Verification	Na (588.995 nm)	24.9668 (ppm)	0.36	24.9668 (ppm)	1345204.0082
2/23/2018 20:07:08	Continuing Calibration Verification	Ni (230.299 nm)	2.0097 (ppm)	0.74	2.0097 (ppm)	14317.2960
2/23/2018 20:07:08	Continuing Calibration Verification	Pb (220.353 nm)	0.4886 (ppm)	1.26	0.4886 (ppm)	1119.8196
2/23/2018 20:07:08	Continuing Calibration Verification	Sb (217.582 nm)	4.7436 (ppm)	0.34	4.7436 (ppm)	7547.7054
2/23/2018 20:07:08	Continuing Calibration Verification	Se (196.026 nm)	0.4671 (ppm)	0.73	0.4671 (ppm)	442.5256
2/23/2018 20:07:08	Continuing Calibration Verification	Sn (189.925 nm)	4.8892 (ppm)	0.86	4.8892 (ppm)	6024.5708
2/23/2018 20:07:08	Continuing Calibration Verification	Sr (216.596 nm)	2.5123 (ppm)	0.81	2.5123 (ppm)	34788.9464
2/23/2018 20:07:08	Continuing Calibration Verification	Ti (336.122 nm)	2.4704 (ppm)	0.02	2.4704 (ppm)	554001.9784
2/23/2018 20:07:08	Continuing Calibration Verification	Tl (351.923 nm)	0.9688 (ppm)	0.32	0.9688 (ppm)	2922.0581
2/23/2018 20:07:08	Continuing Calibration Verification	V (292.401 nm)	2.4737 (ppm)	0.62	2.4737 (ppm)	94708.4306
2/23/2018 20:07:08	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.38	0.97 (Ratio)	963942.87
2/23/2018 20:07:08	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.38	0.97 (Ratio)	965291.12
2/23/2018 20:07:08	Continuing Calibration Verification	Zn (213.857 nm)	0.9722 (ppm)	0.82	0.9722 (ppm)	29340.0094
2/23/2018 20:10:29	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-117.7732
2/23/2018 20:10:29	Continuing Calibration Blank	Al (394.401 nm)	0.0068 (ppm)	4.54	0.0068 (ppm)	164.3016
2/23/2018 20:10:29	Continuing Calibration Blank	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.6454
2/23/2018 20:10:29	Continuing Calibration Blank	B (249.772 nm)	0.0021 (ppm)	8.74	0.0021 (ppm)	151.5874
2/23/2018 20:10:29	Continuing Calibration Blank	Ba (230.424 nm)	0.0035 (ppm)	4.53	0.0035 (ppm)	127.8174
2/23/2018 20:10:29	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	0.75	0.0001 (ppm)	-421.7647
2/23/2018 20:10:29	Continuing Calibration Blank	Ca (227.547 nm)	0.0050 u (ppm)	> 100.00	0.0050 (ppm)	7.8114
2/23/2018 20:10:29	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	86.66	0.0002 (ppm)	19.0803
2/23/2018 20:10:29	Continuing Calibration Blank	Co (230.786 nm)	0.0008 (ppm)	36.01	0.0008 (ppm)	2.6156
2/23/2018 20:10:29	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	69.26	0.0002 (ppm)	5.0005
2/23/2018 20:10:29	Continuing Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	23.80	0.0004 (ppm)	52.8279
2/23/2018 20:10:29	Continuing Calibration Blank	Fe (234.350 nm)	0.0047 (ppm)	5.40	0.0047 (ppm)	71.7469
2/23/2018 20:10:29	Continuing Calibration Blank	K (766.491 nm)	0.0481 (ppm)	19.01	0.0481 (ppm)	174.0584
2/23/2018 20:10:29	Continuing Calibration Blank	Mg (279.078 nm)	0.0095 (ppm)	16.10	0.0095 (ppm)	15.1794
2/23/2018 20:10:29	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	9.20	0.0003 (ppm)	102.3612
2/23/2018 20:10:29	Continuing Calibration Blank	Mo (202.032 nm)	0.0029 (ppm)	6.41	0.0029 (ppm)	34.1971
2/23/2018 20:10:29	Continuing Calibration Blank	Na (588.995 nm)	0.0087 (ppm)	9.58	0.0087 (ppm)	-4121.5380
2/23/2018 20:10:29	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-21.4491
2/23/2018 20:10:29	Continuing Calibration Blank	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.8853
2/23/2018 20:10:29	Continuing Calibration Blank	Sb (217.582 nm)	0.0041 (ppm)	19.20	0.0041 (ppm)	4.9666
2/23/2018 20:10:29	Continuing Calibration Blank	Se (196.026 nm)	0.0016 (ppm)	60.10	0.0016 (ppm)	-0.3656
2/23/2018 20:10:29	Continuing Calibration Blank	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	2.2445
2/23/2018 20:10:29	Continuing Calibration Blank	Sr (216.596 nm)	0.0011 (ppm)	10.88	0.0011 (ppm)	10.0874
2/23/2018 20:10:29	Continuing Calibration Blank	Ti (336.122 nm)	0.0017 (ppm)	3.25	0.0017 (ppm)	-129.1741
2/23/2018 20:10:29	Continuing Calibration Blank	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	16.1908
2/23/2018 20:10:29	Continuing Calibration Blank	V (292.401 nm)	0.0010 (ppm)	5.24	0.0010 (ppm)	135.7711
2/23/2018 20:10:29	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.62	1.02 (Ratio)	1012488.42

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:10:29	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.62	1.02 (Ratio)	1013815.21
2/23/2018 20:10:29	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	27.42	0.0003 (ppm)	-20.7526
2/23/2018 20:13:49	R1801417-013	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-109.0081
2/23/2018 20:13:49	R1801417-013	Al (394.401 nm)	57.3151 o (ppm)	2.27	57.3151 (ppm)	829248.9327
2/23/2018 20:13:49	R1801417-013	As (188.980 nm)	0.0260 (ppm)	9.93	0.0260 (ppm)	21.7187
2/23/2018 20:13:49	R1801417-013	B (249.772 nm)	0.1102 (ppm)	2.22	0.1102 (ppm)	3438.8065
2/23/2018 20:13:49	R1801417-013	Ba (230.424 nm)	0.3122 (ppm)	3.05	0.3122 (ppm)	10917.2542
2/23/2018 20:13:49	R1801417-013	Be (313.107 nm)	0.0023 (ppm)	1.64	0.0023 (ppm)	2867.4521
2/23/2018 20:13:49	R1801417-013	Ca (227.547 nm)	983.4828 o (ppm)	2.16	983.4828 (ppm)	68748.7821
2/23/2018 20:13:49	R1801417-013	Cd (214.439 nm)	0.0026 (ppm)	13.27	0.0026 (ppm)	70.6804
2/23/2018 20:13:49	R1801417-013	Co (230.786 nm)	0.0356 (ppm)	1.99	0.0356 (ppm)	373.2451
2/23/2018 20:13:49	R1801417-013	Cr (267.716 nm)	0.1014 (ppm)	2.02	0.1014 (ppm)	4899.8694
2/23/2018 20:13:49	R1801417-013	Cu (327.395 nm)	0.1338 (ppm)	2.08	0.1338 (ppm)	9431.5126
2/23/2018 20:13:49	R1801417-013	Fe (234.350 nm)	95.6846 o (ppm)	1.52	95.6846 (ppm)	1076744.3188
2/23/2018 20:13:49	R1801417-013	K (766.491 nm)	12.1010 (ppm)	2.13	12.1010 (ppm)	44515.0193
2/23/2018 20:13:49	R1801417-013	Mg (279.078 nm)	421.2452 o (ppm)	1.87	421.2452 (ppm)	869873.2222
2/23/2018 20:13:49	R1801417-013	Mn (257.610 nm)	2.9784 o (ppm)	2.09	2.9784 (ppm)	966874.3677
2/23/2018 20:13:49	R1801417-013	Mo (202.032 nm)	0.0109 (ppm)	3.98	0.0109 (ppm)	117.7344
2/23/2018 20:13:49	R1801417-013	Na (588.995 nm)	1.7649 (ppm)	2.36	1.7649 (ppm)	90825.1680
2/23/2018 20:13:49	R1801417-013	Ni (230.299 nm)	0.0951 (ppm)	1.66	0.0951 (ppm)	655.3194
2/23/2018 20:13:49	R1801417-013	Pb (220.353 nm)	0.0850 (ppm)	1.71	0.0850 (ppm)	199.5548
2/23/2018 20:13:49	R1801417-013	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	0.0636
2/23/2018 20:13:49	R1801417-013	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-2.2333
2/23/2018 20:13:49	R1801417-013	Sn (189.925 nm)	0.0169 (ppm)	15.83	0.0169 (ppm)	21.8353
2/23/2018 20:13:49	R1801417-013	Sr (216.596 nm)	0.5955 (ppm)	1.71	0.5955 (ppm)	8242.4770
2/23/2018 20:13:49	R1801417-013	Ti (336.122 nm)	0.7234 (ppm)	1.98	0.7234 (ppm)	161852.5267
2/23/2018 20:13:49	R1801417-013	Tl (351.923 nm)	0.0252 (ppm)	15.15	0.0252 (ppm)	93.6484
2/23/2018 20:13:49	R1801417-013	V (292.401 nm)	0.1063 (ppm)	2.23	0.1063 (ppm)	4163.7935
2/23/2018 20:13:49	R1801417-013	Y (360.074 nm)	0.86 (Ratio)	1.69	0.86 (Ratio)	854998.89
2/23/2018 20:13:49	R1801417-013	Y_R (360.074 nm)	0.86 (Ratio)	1.68	0.86 (Ratio)	856280.34
2/23/2018 20:13:49	R1801417-013	Zn (213.857 nm)	0.6959 (ppm)	2.99	0.6959 (ppm)	20991.8240
2/23/2018 20:17:11	R1801417-014	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-109.5111
2/23/2018 20:17:11	R1801417-014	Al (394.401 nm)	42.1294 o (ppm)	1.70	42.1294 (ppm)	609556.9454
2/23/2018 20:17:11	R1801417-014	As (188.980 nm)	0.0254 (ppm)	6.88	0.0254 (ppm)	21.1444
2/23/2018 20:17:11	R1801417-014	B (249.772 nm)	0.1057 (ppm)	2.17	0.1057 (ppm)	3300.5921
2/23/2018 20:17:11	R1801417-014	Ba (230.424 nm)	0.2113 (ppm)	2.08	0.2113 (ppm)	7389.5790
2/23/2018 20:17:11	R1801417-014	Be (313.107 nm)	0.0018 (ppm)	2.24	0.0018 (ppm)	2098.6317
2/23/2018 20:17:11	R1801417-014	Ca (227.547 nm)	1318.1634 o (ppm)	1.79	1318.1634 (ppm)	92141.5496
2/23/2018 20:17:11	R1801417-014	Cd (214.439 nm)	0.0019 (ppm)	8.33	0.0019 (ppm)	55.8992
2/23/2018 20:17:11	R1801417-014	Co (230.786 nm)	0.0254 (ppm)	2.26	0.0254 (ppm)	264.9287
2/23/2018 20:17:11	R1801417-014	Cr (267.716 nm)	0.0693 (ppm)	2.05	0.0693 (ppm)	3348.9920
2/23/2018 20:17:11	R1801417-014	Cu (327.395 nm)	0.1424 (ppm)	2.15	0.1424 (ppm)	10037.2544
2/23/2018 20:17:11	R1801417-014	Fe (234.350 nm)	78.5139 o (ppm)	2.16	78.5139 (ppm)	883524.3208
2/23/2018 20:17:11	R1801417-014	K (766.491 nm)	10.9738 (ppm)	1.64	10.9738 (ppm)	40368.3037
2/23/2018 20:17:11	R1801417-014	Mg (279.078 nm)	596.7489 o (ppm)	1.96	596.7489 (ppm)	1232290.8568
2/23/2018 20:17:11	R1801417-014	Mn (257.610 nm)	3.1226 o (ppm)	1.98	3.1226 (ppm)	1013683.6286
2/23/2018 20:17:11	R1801417-014	Mo (202.032 nm)	0.0038 (ppm)	10.93	0.0038 (ppm)	42.8798
2/23/2018 20:17:11	R1801417-014	Na (588.995 nm)	2.2525 (ppm)	1.60	2.2525 (ppm)	117187.1462
2/23/2018 20:17:11	R1801417-014	Ni (230.299 nm)	0.0704 (ppm)	2.80	0.0704 (ppm)	479.1712
2/23/2018 20:17:11	R1801417-014	Pb (220.353 nm)	0.0631 (ppm)	1.41	0.0631 (ppm)	149.5324
2/23/2018 20:17:11	R1801417-014	Sb (217.582 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	0.9572

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:17:11	R1801417-014	Se (196.026 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-3.9944
2/23/2018 20:17:11	R1801417-014	Sn (189.925 nm)	0.0132 (ppm)	16.58	0.0132 (ppm)	17.2689
2/23/2018 20:17:11	R1801417-014	Sr (216.596 nm)	0.7826 (ppm)	2.67	0.7826 (ppm)	10833.3111
2/23/2018 20:17:11	R1801417-014	Ti (336.122 nm)	0.7071 (ppm)	1.96	0.7071 (ppm)	158199.6457
2/23/2018 20:17:11	R1801417-014	Ti (351.923 nm)	0.0396 (ppm)	5.27	0.0396 (ppm)	136.8642
2/23/2018 20:17:11	R1801417-014	V (292.401 nm)	0.0956 (ppm)	2.14	0.0956 (ppm)	3755.0439
2/23/2018 20:17:11	R1801417-014	Y (360.074 nm)	0.84 (Ratio)	1.09	0.84 (Ratio)	827558.66
2/23/2018 20:17:11	R1801417-014	Y_R (360.074 nm)	0.84 (Ratio)	1.09	0.84 (Ratio)	828831.99
2/23/2018 20:17:11	R1801417-014	Zn (213.857 nm)	0.3941 (ppm)	2.12	0.3941 (ppm)	11876.3615
2/23/2018 20:20:32	R1801417-015	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-121.9349
2/23/2018 20:20:32	R1801417-015	Al (394.401 nm)	40.8555 o (ppm)	1.39	40.8555 (ppm)	591127.3731
2/23/2018 20:20:32	R1801417-015	As (188.980 nm)	0.0227 (ppm)	11.34	0.0227 (ppm)	18.6182
2/23/2018 20:20:32	R1801417-015	B (249.772 nm)	0.1015 (ppm)	1.13	0.1015 (ppm)	3171.9147
2/23/2018 20:20:32	R1801417-015	Ba (230.424 nm)	0.1782 (ppm)	1.29	0.1782 (ppm)	6232.1536
2/23/2018 20:20:32	R1801417-015	Be (313.107 nm)	0.0017 (ppm)	1.17	0.0017 (ppm)	1967.7862
2/23/2018 20:20:32	R1801417-015	Ca (227.547 nm)	1103.2198 o (ppm)	1.08	1103.2198 (ppm)	77117.8937
2/23/2018 20:20:32	R1801417-015	Cd (214.439 nm)	0.0027 (ppm)	10.83	0.0027 (ppm)	72.5361
2/23/2018 20:20:32	R1801417-015	Co (230.786 nm)	0.0258 (ppm)	0.64	0.0258 (ppm)	269.0247
2/23/2018 20:20:32	R1801417-015	Cr (267.716 nm)	0.0613 (ppm)	1.31	0.0613 (ppm)	2961.8878
2/23/2018 20:20:32	R1801417-015	Cu (327.395 nm)	0.1324 (ppm)	1.88	0.1324 (ppm)	9331.4968
2/23/2018 20:20:32	R1801417-015	Fe (234.350 nm)	82.0819 o (ppm)	1.29	82.0819 (ppm)	923675.1852
2/23/2018 20:20:32	R1801417-015	K (766.491 nm)	10.2442 (ppm)	1.13	10.2442 (ppm)	37683.9659
2/23/2018 20:20:32	R1801417-015	Mg (279.078 nm)	480.8302 o (ppm)	1.64	480.8302 (ppm)	992917.0334
2/23/2018 20:20:32	R1801417-015	Mn (257.610 nm)	3.3051 o (ppm)	1.10	3.3051 (ppm)	1072918.1636
2/23/2018 20:20:32	R1801417-015	Mo (202.032 nm)	0.0027 (ppm)	7.47	0.0027 (ppm)	31.4895
2/23/2018 20:20:32	R1801417-015	Na (588.995 nm)	1.7478 (ppm)	1.10	1.7478 (ppm)	89899.6745
2/23/2018 20:20:32	R1801417-015	Ni (230.299 nm)	0.0651 (ppm)	0.73	0.0651 (ppm)	441.3304
2/23/2018 20:20:32	R1801417-015	Pb (220.353 nm)	0.0677 (ppm)	7.67	0.0677 (ppm)	160.0189
2/23/2018 20:20:32	R1801417-015	Sb (217.582 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.9550
2/23/2018 20:20:32	R1801417-015	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-0.5698
2/23/2018 20:20:32	R1801417-015	Sn (189.925 nm)	0.0115 (ppm)	17.55	0.0115 (ppm)	15.2841
2/23/2018 20:20:32	R1801417-015	Sr (216.596 nm)	0.7018 (ppm)	1.25	0.7018 (ppm)	9715.3612
2/23/2018 20:20:32	R1801417-015	Ti (336.122 nm)	0.5575 (ppm)	1.15	0.5575 (ppm)	124614.4512
2/23/2018 20:20:32	R1801417-015	Ti (351.923 nm)	0.0257 (ppm)	17.93	0.0257 (ppm)	95.1195
2/23/2018 20:20:32	R1801417-015	V (292.401 nm)	0.0854 (ppm)	1.30	0.0854 (ppm)	3363.8399
2/23/2018 20:20:32	R1801417-015	Y (360.074 nm)	0.86 (Ratio)	0.51	0.86 (Ratio)	851153.16
2/23/2018 20:20:32	R1801417-015	Y_R (360.074 nm)	0.86 (Ratio)	0.51	0.86 (Ratio)	852452.28
2/23/2018 20:20:32	R1801417-015	Zn (213.857 nm)	1.1256 (ppm)	1.12	1.1256 (ppm)	33973.6039
2/23/2018 20:23:53	R1801451-002	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-111.2576
2/23/2018 20:23:53	R1801451-002	Al (394.401 nm)	17.1959 (ppm)	2.09	17.1959 (ppm)	248841.0744
2/23/2018 20:23:53	R1801451-002	As (188.980 nm)	0.0179 (ppm)	4.04	0.0179 (ppm)	14.1177
2/23/2018 20:23:53	R1801451-002	B (249.772 nm)	0.0584 (ppm)	1.08	0.0584 (ppm)	1862.7002
2/23/2018 20:23:53	R1801451-002	Ba (230.424 nm)	0.1483 (ppm)	1.34	0.1483 (ppm)	5187.4437
2/23/2018 20:23:53	R1801451-002	Be (313.107 nm)	0.0009 (ppm)	0.64	0.0009 (ppm)	781.2984
2/23/2018 20:23:53	R1801451-002	Ca (227.547 nm)	1037.5089 o (ppm)	2.18	1037.5089 (ppm)	72524.9794
2/23/2018 20:23:53	R1801451-002	Cd (214.439 nm)	0.0036 (ppm)	3.90	0.0036 (ppm)	92.0316
2/23/2018 20:23:53	R1801451-002	Co (230.786 nm)	0.0127 (ppm)	5.34	0.0127 (ppm)	130.0512
2/23/2018 20:23:53	R1801451-002	Cr (267.716 nm)	0.0623 (ppm)	1.83	0.0623 (ppm)	3010.0154
2/23/2018 20:23:53	R1801451-002	Cu (327.395 nm)	0.1196 (ppm)	2.51	0.1196 (ppm)	8431.8664
2/23/2018 20:23:53	R1801451-002	Fe (234.350 nm)	48.9966 o (ppm)	1.53	48.9966 (ppm)	551370.9076
2/23/2018 20:23:53	R1801451-002	K (766.491 nm)	5.0383 (ppm)	2.52	5.0383 (ppm)	18532.1074

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:23:53	R1801451-002	Mg (279.078 nm)	506.2143 o (ppm)	1.66	506.2143 (ppm)	1045335.5573
2/23/2018 20:23:53	R1801451-002	Mn (257.610 nm)	2.8803 o (ppm)	1.69	2.8803 (ppm)	935027.5167
2/23/2018 20:23:53	R1801451-002	Mo (202.032 nm)	0.0071 (ppm)	5.75	0.0071 (ppm)	77.6901
2/23/2018 20:23:53	R1801451-002	Na (588.995 nm)	3.0315 (ppm)	2.53	3.0315 (ppm)	159302.4416
2/23/2018 20:23:53	R1801451-002	Ni (230.299 nm)	0.0431 (ppm)	3.62	0.0431 (ppm)	284.2085
2/23/2018 20:23:53	R1801451-002	Pb (220.353 nm)	0.3470 (ppm) †	2.15	0.3470 (ppm)	797.0034
2/23/2018 20:23:53	R1801451-002	Sb (217.582 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.7024
2/23/2018 20:23:53	R1801451-002	Se (196.026 nm)	-0.0015 u (ppm)	36.16	-0.0015 (ppm)	-3.3174
2/23/2018 20:23:53	R1801451-002	Sn (189.925 nm)	0.0147 (ppm)	15.57	0.0147 (ppm)	19.1432
2/23/2018 20:23:53	R1801451-002	Sr (216.596 nm)	0.4094 (ppm)	1.01	0.4094 (ppm)	5665.8367
2/23/2018 20:23:53	R1801451-002	Ti (336.122 nm)	0.3361 (ppm)	1.97	0.3361 (ppm)	74919.1667
2/23/2018 20:23:53	R1801451-002	Tl (351.923 nm)	0.0274 (ppm)	12.20	0.0274 (ppm)	100.3215
2/23/2018 20:23:53	R1801451-002	V (292.401 nm)	0.1379 (ppm)	1.58	0.1379 (ppm)	5373.1553
2/23/2018 20:23:53	R1801451-002	Y (360.074 nm)	0.86 (Ratio)	2.29	0.86 (Ratio)	847639.68
2/23/2018 20:23:53	R1801451-002	Y_R (360.074 nm)	0.86 (Ratio)	2.29	0.86 (Ratio)	848966.50
2/23/2018 20:23:53	R1801451-002	Zn (213.857 nm)	0.8744 (ppm)	1.10	0.8744 (ppm)	26384.8797
2/23/2018 20:27:14	R1801451-007	Ag (328.068 nm)	0.0018 (ppm)	8.33	0.0018 (ppm)	22.6687
2/23/2018 20:27:14	R1801451-007	Al (394.401 nm)	50.2662 o (ppm)	1.34	50.2662 (ppm)	727272.6942
2/23/2018 20:27:14	R1801451-007	As (188.980 nm)	0.0379 (ppm)	4.57	0.0379 (ppm)	32.8744
2/23/2018 20:27:14	R1801451-007	B (249.772 nm)	0.0893 (ppm)	1.56	0.0893 (ppm)	2801.9450
2/23/2018 20:27:14	R1801451-007	Ba (230.424 nm)	0.9377 (ppm)	0.81	0.9377 (ppm)	32782.7113
2/23/2018 20:27:14	R1801451-007	Be (313.107 nm)	0.0024 (ppm)	1.33	0.0024 (ppm)	3085.2631
2/23/2018 20:27:14	R1801451-007	Ce (227.547 nm)	432.1957 o (ppm)	1.31	432.1957 (ppm)	30216.1269
2/23/2018 20:27:14	R1801451-007	Cd (214.439 nm)	0.0042 (ppm)	2.40	0.0042 (ppm)	105.4904
2/23/2018 20:27:14	R1801451-007	Co (230.786 nm)	0.0404 (ppm)	1.18	0.0404 (ppm)	424.7913
2/23/2018 20:27:14	R1801451-007	Cr (267.716 nm)	0.0857 (ppm)	1.53	0.0857 (ppm)	4138.9486
2/23/2018 20:27:14	R1801451-007	Cu (327.395 nm)	0.2285 (ppm)	1.07	0.2285 (ppm)	16085.2391
2/23/2018 20:27:14	R1801451-007	Fe (234.350 nm)	119.7526 o (ppm)	1.87	119.7526 (ppm)	1347578.0832
2/23/2018 20:27:14	R1801451-007	K (766.491 nm)	7.8204 (ppm)	1.08	7.8204 (ppm)	28767.1105
2/23/2018 20:27:14	R1801451-007	Mg (279.078 nm)	93.9899 o (ppm)	1.42	93.9899 (ppm)	194086.2740
2/23/2018 20:27:14	R1801451-007	Mn (257.610 nm)	3.8798 o (ppm)	1.46	3.8798 (ppm)	1259484.0239
2/23/2018 20:27:14	R1801451-007	Mo (202.032 nm)	0.0081 (ppm)	1.61	0.0081 (ppm)	88.0471
2/23/2018 20:27:14	R1801451-007	Na (588.995 nm)	3.4829 (ppm)	1.02	3.4829 (ppm)	183703.8597
2/23/2018 20:27:14	R1801451-007	Ni (230.299 nm)	0.0720 (ppm)	2.08	0.0720 (ppm)	490.8175
2/23/2018 20:27:14	R1801451-007	Pb (220.353 nm)	0.8707 (ppm)	1.03	0.8707 (ppm)	1991.1787
2/23/2018 20:27:14	R1801451-007	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-0.2652
2/23/2018 20:27:14	R1801451-007	Se (196.026 nm)	0.0041 (ppm) †	49.16	0.0041 (ppm)	2.0512
2/23/2018 20:27:14	R1801451-007	Sn (189.925 nm)	0.0622 (ppm)	1.61	0.0622 (ppm)	77.6699
2/23/2018 20:27:14	R1801451-007	Sr (216.596 nm)	0.4375 (ppm)	1.40	0.4375 (ppm)	6054.5971
2/23/2018 20:27:14	R1801451-007	Ti (336.122 nm)	1.0749 (ppm)	1.31	1.0749 (ppm)	240761.7234
2/23/2018 20:27:14	R1801451-007	Tl (351.923 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	11.3439
2/23/2018 20:27:14	R1801451-007	V (292.401 nm)	0.1435 (ppm)	1.51	0.1435 (ppm)	5588.4163
2/23/2018 20:27:14	R1801451-007	Y (360.074 nm)	0.94 (Ratio)	0.53	0.94 (Ratio)	932443.36
2/23/2018 20:27:14	R1801451-007	Y_R (360.074 nm)	0.94 (Ratio)	0.53	0.94 (Ratio)	933888.98
2/23/2018 20:27:14	R1801451-007	Zn (213.857 nm)	0.7468 (ppm)	1.00	0.7468 (ppm)	22530.3917
2/23/2018 20:30:35	R1801486-001	Ag (328.068 nm)	-0.0004 u (ppm) †	21.60	-0.0004 (ppm)	-148.8621
2/23/2018 20:30:35	R1801486-001	Al (394.401 nm)	51.8415 o (ppm)	0.24	51.8415 (ppm)	750062.3589
2/23/2018 20:30:35	R1801486-001	As (188.980 nm)	0.0537 (ppm)	2.02	0.0537 (ppm)	47.6738
2/23/2018 20:30:35	R1801486-001	B (249.772 nm)	0.0563 (ppm)	0.24	0.0563 (ppm)	1797.9164
2/23/2018 20:30:35	R1801486-001	Be (230.424 nm)	0.4241 (ppm) †	0.37	0.4241 (ppm)	14828.6961
2/23/2018 20:30:35	R1801486-001	Be (313.107 nm)	0.0021 (ppm)	0.72	0.0021 (ppm)	2616.7359



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:30:35	R1801486-001	Ca (227.547 nm)	67.2453 o (ppm)	0.33	67.2453 (ppm)	4707.6265
2/23/2018 20:30:35	R1801486-001	Cd (214.439 nm)	0.0019 (ppm)	6.47	0.0019 (ppm)	56.7898
2/23/2018 20:30:35	R1801486-001	Co (230.786 nm)	0.0402 (ppm)	1.34	0.0402 (ppm)	422.9461
2/23/2018 20:30:35	R1801486-001	Cr (267.716 nm)	0.0726 (ppm)	0.36	0.0726 (ppm)	3505.2657
2/23/2018 20:30:35	R1801486-001	Cu (327.395 nm)	0.1400 (ppm)	0.80	0.1400 (ppm)	9869.4204
2/23/2018 20:30:35	R1801486-001	Fe (234.350 nm)	103.9950 o (ppm)	0.12	103.9950 (ppm)	1170259.4782
2/23/2018 20:30:35	R1801486-001	K (766.491 nm)	4.8085 (ppm)	0.61	4.8085 (ppm)	17686.9441
2/23/2018 20:30:35	R1801486-001	Mg (279.078 nm)	26.9903 (ppm)	0.14	26.9903 (ppm)	55730.9920
2/23/2018 20:30:35	R1801486-001	Mn (257.610 nm)	3.0828 o (ppm)	0.26	3.0828 (ppm)	1000770.4084
2/23/2018 20:30:35	R1801486-001	Mo (202.032 nm)	0.0044 (ppm)	1.58	0.0044 (ppm)	49.7534
2/23/2018 20:30:35	R1801486-001	Na (588.995 nm)	0.3943 (ppm)	0.59	0.3943 (ppm)	16725.7904
2/23/2018 20:30:35	R1801486-001	Ni (230.299 nm)	0.0797 (ppm)	2.33	0.0797 (ppm)	545.6236
2/23/2018 20:30:35	R1801486-001	Pb (220.353 nm)	0.0973 (ppm)	0.79	0.0973 (ppm)	227.5874
2/23/2018 20:30:35	R1801486-001	Sb (217.582 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	-4.7118
2/23/2018 20:30:35	R1801486-001	Se (196.026 nm)	0.0017 (ppm)	> 100.00	0.0017 (ppm)	-0.2539
2/23/2018 20:30:35	R1801486-001	Sn (189.925 nm)	0.0139 (ppm)	11.70	0.0139 (ppm)	18.1461
2/23/2018 20:30:35	R1801486-001	Sr (216.596 nm)	0.1123 (ppm)	0.28	0.1123 (ppm)	1550.8287
2/23/2018 20:30:35	R1801486-001	Ti (336.122 nm)	0.5775 (ppm)	0.14	0.5775 (ppm)	129100.6033
2/23/2018 20:30:35	R1801486-001	Tl (351.923 nm)	-0.0123 u (ppm)	13.91	-0.0123 (ppm)	-18.7699
2/23/2018 20:30:35	R1801486-001	V (292.401 nm)	0.1042 (ppm)	0.28	0.1042 (ppm)	4082.8732
2/23/2018 20:30:35	R1801486-001	Y (360.074 nm)	0.99 (Ratio)	0.83	0.99 (Ratio)	983164.88
2/23/2018 20:30:35	R1801486-001	Y_R (360.074 nm)	0.99 (Ratio)	0.83	0.99 (Ratio)	984621.65
2/23/2018 20:30:35	R1801486-001	Zn (213.857 nm)	0.3888 (ppm)	1.17	0.3888 (ppm)	11716.3020
2/23/2018 20:33:56	R1801486-002	Ag (328.068 nm)	-0.0004 u (ppm)	30.09	-0.0004 (ppm)	-144.1002
2/23/2018 20:33:56	R1801486-002	Al (394.401 nm)	65.8762 o (ppm)	2.16	65.8762 (ppm)	953103.1105
2/23/2018 20:33:56	R1801486-002	As (188.980 nm)	0.0686 (ppm)	1.86	0.0686 (ppm)	61.6342
2/23/2018 20:33:56	R1801486-002	B (249.772 nm)	0.0766 (ppm)	2.66	0.0766 (ppm)	2417.0745
2/23/2018 20:33:56	R1801486-002	Ba (230.424 nm)	0.5972 (ppm)	2.38	0.5972 (ppm)	20878.3487
2/23/2018 20:33:56	R1801486-002	Be (313.107 nm)	0.0028 (ppm)	2.33	0.0028 (ppm)	3602.7353
2/23/2018 20:33:56	R1801486-002	Ca (227.547 nm)	55.5791 o (ppm)	2.12	55.5791 (ppm)	3892.2098
2/23/2018 20:33:56	R1801486-002	Cd (214.439 nm)	0.0022 (ppm)	13.31	0.0022 (ppm)	63.6899
2/23/2018 20:33:56	R1801486-002	Co (230.786 nm)	0.0527 (ppm)	1.89	0.0527 (ppm)	555.4331
2/23/2018 20:33:56	R1801486-002	Cr (267.716 nm)	0.0893 (ppm)	2.55	0.0893 (ppm)	4313.2097
2/23/2018 20:33:56	R1801486-002	Cu (327.395 nm)	0.3067 (ppm)	2.19	0.3067 (ppm)	21587.3079
2/23/2018 20:33:56	R1801486-002	Fe (234.350 nm)	144.1114 o (ppm)	2.40	144.1114 (ppm)	1621683.9612
2/23/2018 20:33:56	R1801486-002	K (766.491 nm)	6.4087 (ppm)	1.84	6.4087 (ppm)	23573.7340
2/23/2018 20:33:56	R1801486-002	Mg (279.078 nm)	23.1133 (ppm)	2.38	23.1133 (ppm)	47724.9228
2/23/2018 20:33:56	R1801486-002	Mn (257.610 nm)	7.4996 o (ppm)	2.26	7.4996 (ppm)	2434593.4206
2/23/2018 20:33:56	R1801486-002	Mo (202.032 nm)	0.0062 (ppm)	2.01	0.0062 (ppm)	68.1964
2/23/2018 20:33:56	R1801486-002	Na (588.995 nm)	0.5054 (ppm)	1.75	0.5054 (ppm)	22733.9865
2/23/2018 20:33:56	R1801486-002	Ni (230.299 nm)	0.1190 (ppm)	2.90	0.1190 (ppm)	825.8883
2/23/2018 20:33:56	R1801486-002	Pb (220.353 nm)	0.2222 (ppm)	2.11	0.2222 (ppm)	512.3205
2/23/2018 20:33:56	R1801486-002	Sb (217.582 nm)	-0.0018 u (ppm)	76.90	-0.0018 (ppm)	-4.3053
2/23/2018 20:33:56	R1801486-002	Se (196.026 nm)	0.0048 (ppm)	46.14	0.0048 (ppm)	2.6904
2/23/2018 20:33:56	R1801486-002	Sn (189.925 nm)	0.0207 (ppm)	8.96	0.0207 (ppm)	26.5821
2/23/2018 20:33:56	R1801486-002	Sr (216.596 nm)	0.1465 (ppm)	2.25	0.1465 (ppm)	2024.9537
2/23/2018 20:33:56	R1801486-002	Ti (336.122 nm)	0.6922 (ppm)	2.33	0.6922 (ppm)	154846.7309
2/23/2018 20:33:56	R1801486-002	Tl (351.923 nm)	-0.0194 u (ppm)	16.28	-0.0194 (ppm)	-39.9076
2/23/2018 20:33:56	R1801486-002	V (292.401 nm)	0.1192 (ppm)	2.50	0.1192 (ppm)	4655.9972
2/23/2018 20:33:56	R1801486-002	Y (360.074 nm)	1.02 (Ratio)	1.41	1.02 (Ratio)	1011154.62
2/23/2018 20:33:56	R1801486-002	Y_R (360.074 nm)	1.02 (Ratio)	1.41	1.02 (Ratio)	1012663.88

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:33:56	R1801486-002	Zn (213.857 nm)	0.5582 (ppm)	2.51	0.5582 (ppm)	16832.5659
2/23/2018 20:37:17	R1801486-003	Ag (328.068 nm)	-0.0001 u (ppm)	46.20	-0.0001 (ppm)	-126.6761
2/23/2018 20:37:17	R1801486-003	Al (394.401 nm)	14.2351 (ppm)	0.26	14.2351 (ppm)	206007.6095
2/23/2018 20:37:17	R1801486-003	As (188.980 nm)	0.0901 (ppm)	3.17	0.0901 (ppm)	81.7500
2/23/2018 20:37:17	R1801486-003	B (249.772 nm)	0.0305 (ppm)	0.35	0.0305 (ppm)	1014.8784
2/23/2018 20:37:17	R1801486-003	Ba (230.424 nm)	0.2758 (ppm)	0.39	0.2758 (ppm)	9644.2690
2/23/2018 20:37:17	R1801486-003	Be (313.107 nm)	0.0008 (ppm)	1.33	0.0008 (ppm)	579.9726
2/23/2018 20:37:17	R1801486-003	Ca (227.547 nm)	14.2252 (ppm)	0.49	14.2252 (ppm)	1001.7461
2/23/2018 20:37:17	R1801486-003	Cd (214.439 nm)	0.0011 (ppm)	7.90	0.0011 (ppm)	38.6586
2/23/2018 20:37:17	R1801486-003	Co (230.786 nm)	0.0112 (ppm)	0.74	0.0112 (ppm)	113.6668
2/23/2018 20:37:17	R1801486-003	Cr (267.716 nm)	0.0284 (ppm)	0.24	0.0284 (ppm)	1367.7664
2/23/2018 20:37:17	R1801486-003	Cu (327.395 nm)	0.0450 (ppm)	0.50	0.0450 (ppm)	3190.2354
2/23/2018 20:37:17	R1801486-003	Fe (234.350 nm)	31.6490 u (ppm)	0.41	31.6490 (ppm)	356160.3693
2/23/2018 20:37:17	R1801486-003	K (766.491 nm)	2.0203 (ppm)	0.92	2.0203 (ppm)	7429.2285
2/23/2018 20:37:17	R1801486-003	Mg (279.078 nm)	8.2381 (ppm)	0.42	8.2381 (ppm)	17007.5219
2/23/2018 20:37:17	R1801486-003	Mn (257.610 nm)	0.4182 (ppm)	0.33	0.4182 (ppm)	135764.5960
2/23/2018 20:37:17	R1801486-003	Mo (202.032 nm)	0.0032 (ppm)	3.25	0.0032 (ppm)	37.2925
2/23/2018 20:37:17	R1801486-003	Na (588.995 nm)	0.6921 (ppm)	0.87	0.6921 (ppm)	32823.6175
2/23/2018 20:37:17	R1801486-003	Ni (230.299 nm)	0.0339 (ppm)	0.79	0.0339 (ppm)	218.8871
2/23/2018 20:37:17	R1801486-003	Pb (220.353 nm)	0.0193 (ppm)	2.88	0.0193 (ppm)	49.7892
2/23/2018 20:37:17	R1801486-003	Sb (217.582 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.5658
2/23/2018 20:37:17	R1801486-003	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-0.9862
2/23/2018 20:37:17	R1801486-003	Sn (189.925 nm)	0.0101 (ppm)	6.97	0.0101 (ppm)	13.4825
2/23/2018 20:37:17	R1801486-003	Sr (216.596 nm)	0.0654 (ppm)	1.06	0.0654 (ppm)	901.9260
2/23/2018 20:37:17	R1801486-003	Ti (336.122 nm)	0.3465 (ppm)	0.06	0.3465 (ppm)	77252.2672
2/23/2018 20:37:17	R1801486-003	Tl (351.923 nm)	-0.0046 u (ppm)	26.40	-0.0046 (ppm)	4.4633
2/23/2018 20:37:17	R1801486-003	V (292.401 nm)	0.0369 (ppm)	0.42	0.0369 (ppm)	1509.9341
2/23/2018 20:37:17	R1801486-003	Y (360.074 nm)	1.02 (Ratio)	0.82	1.02 (Ratio)	1011029.39
2/23/2018 20:37:17	R1801486-003	Y_R (360.074 nm)	1.02 (Ratio)	0.82	1.02 (Ratio)	1012475.38
2/23/2018 20:37:17	R1801486-003	Zn (213.857 nm)	0.1091 (ppm)	0.33	0.1091 (ppm)	3264.3383
2/23/2018 20:40:37	R1801417-004 10X	Ag (328.068 nm)	0.0001 (ppm)	51.05	0.0001 (ppm)	-109.2385
2/23/2018 20:40:37	R1801417-004 10X	Al (394.401 nm)	0.0304 (ppm)	0.97	0.0304 (ppm)	506.3768
2/23/2018 20:40:37	R1801417-004 10X	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.2436
2/23/2018 20:40:37	R1801417-004 10X	B (249.772 nm)	0.0222 (ppm)	1.07	0.0222 (ppm)	760.8039
2/23/2018 20:40:37	R1801417-004 10X	Ba (230.424 nm)	0.0012 (ppm)	7.15	0.0012 (ppm)	47.6544
2/23/2018 20:40:37	R1801417-004 10X	Be (313.107 nm)	0.0000 (ppm)	12.94	0.0000 (ppm)	-546.6086
2/23/2018 20:40:37	R1801417-004 10X	Ca (227.547 nm)	0.6693 (ppm)	2.74	0.6693 (ppm)	54.2437
2/23/2018 20:40:37	R1801417-004 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.9745
2/23/2018 20:40:37	R1801417-004 10X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.8952
2/23/2018 20:40:37	R1801417-004 10X	Cr (267.716 nm)	0.0044 (ppm)	1.69	0.0044 (ppm)	206.0667
2/23/2018 20:40:37	R1801417-004 10X	Cu (327.395 nm)	0.0096 (ppm)	0.42	0.0096 (ppm)	699.3942
2/23/2018 20:40:37	R1801417-004 10X	Fe (234.350 nm)	0.3615 (ppm)	0.88	0.3615 (ppm)	4086.7292
2/23/2018 20:40:37	R1801417-004 10X	K (766.491 nm)	0.3690 (ppm)	0.82	0.3690 (ppm)	1354.3742
2/23/2018 20:40:37	R1801417-004 10X	Mg (279.078 nm)	0.1859 (ppm)	0.83	0.1859 (ppm)	379.4476
2/23/2018 20:40:37	R1801417-004 10X	Mn (257.610 nm)	0.0073 (ppm)	0.98	0.0073 (ppm)	2387.2882
2/23/2018 20:40:37	R1801417-004 10X	Mo (202.032 nm)	0.0010 (ppm)	15.92	0.0010 (ppm)	14.5593
2/23/2018 20:40:37	R1801417-004 10X	Na (588.995 nm)	7.5732 (ppm)	0.82	7.5732 (ppm)	404842.0413
2/23/2018 20:40:37	R1801417-004 10X	Ni (230.299 nm)	0.0020 (ppm)	17.72	0.0020 (ppm)	-9.0436
2/23/2018 20:40:37	R1801417-004 10X	Pb (220.353 nm)	0.0012 (ppm)	47.82	0.0012 (ppm)	8.3828
2/23/2018 20:40:37	R1801417-004 10X	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	0.2387
2/23/2018 20:40:37	R1801417-004 10X	Se (196.026 nm)	-0.0020 u (ppm)	38.86	-0.0020 (ppm)	-3.7631

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:40:37	R1801417-004 10X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.4294
2/23/2018 20:40:37	R1801417-004 10X	Sr (216.596 nm)	0.0057 (ppm)	0.45	0.0057 (ppm)	74.3016
2/23/2018 20:40:37	R1801417-004 10X	Ti (336.122 nm)	0.0008 (ppm)	5.72	0.0008 (ppm)	-350.6580
2/23/2018 20:40:37	R1801417-004 10X	Ti (351.923 nm)	-0.0018 u (ppm)	33.99	-0.0018 (ppm)	12.6257
2/23/2018 20:40:37	R1801417-004 10X	V (292.401 nm)	0.0002 (ppm)	45.83	0.0002 (ppm)	105.5616
2/23/2018 20:40:37	R1801417-004 10X	Y (360.074 nm)	1.02 (Ratio)	0.67	1.02 (Ratio)	1011324.81
2/23/2018 20:40:37	R1801417-004 10X	Y_R (360.074 nm)	1.02 (Ratio)	0.67	1.02 (Ratio)	1012763.06
2/23/2018 20:40:37	R1801417-004 10X	Zn (213.857 nm)	0.0524 (ppm)	1.31	0.0524 (ppm)	1551.8760
2/23/2018 20:43:58	R1801417-004S 10X	Ag (328.068 nm)	0.0047 (ppm)	1.38	0.0047 (ppm)	248.8374
2/23/2018 20:43:58	R1801417-004S 10X	Al (394.401 nm)	0.1966 (ppm)	0.66	0.1966 (ppm)	2911.1679
2/23/2018 20:43:58	R1801417-004S 10X	As (188.980 nm)	0.0029 (ppm)	52.10	0.0029 (ppm)	0.1219
2/23/2018 20:43:58	R1801417-004S 10X	B (249.772 nm)	0.1114 (ppm)	0.37	0.1114 (ppm)	3473.5693
2/23/2018 20:43:58	R1801417-004S 10X	Ba (230.424 nm)	0.2009 (ppm)	0.13	0.2009 (ppm)	7027.9972
2/23/2018 20:43:58	R1801417-004S 10X	Be (313.107 nm)	0.0047 (ppm)	0.31	0.0047 (ppm)	6479.6349
2/23/2018 20:43:58	R1801417-004S 10X	Ca (227.547 nm)	0.8528 (ppm)	2.40	0.8528 (ppm)	67.0719
2/23/2018 20:43:58	R1801417-004S 10X	Cd (214.439 nm)	0.0048 (ppm)	1.31	0.0048 (ppm)	119.0318
2/23/2018 20:43:58	R1801417-004S 10X	Co (230.786 nm)	0.0492 (ppm)	0.40	0.0492 (ppm)	518.0125
2/23/2018 20:43:58	R1801417-004S 10X	Cr (267.716 nm)	0.0246 (ppm)	0.31	0.0246 (ppm)	1184.3621
2/23/2018 20:43:58	R1801417-004S 10X	Cu (327.395 nm)	0.0335 (ppm)	0.74	0.0335 (ppm)	2385.2639
2/23/2018 20:43:58	R1801417-004S 10X	Fe (234.350 nm)	0.4678 (ppm)	0.29	0.4678 (ppm)	5283.0684
2/23/2018 20:43:58	R1801417-004S 10X	K (766.491 nm)	2.1559 (ppm)	0.89	2.1559 (ppm)	7928.0633
2/23/2018 20:43:58	R1801417-004S 10X	Mg (279.078 nm)	0.3782 (ppm)	0.39	0.3782 (ppm)	776.5516
2/23/2018 20:43:58	R1801417-004S 10X	Mn (257.610 nm)	0.0572 (ppm)	0.19	0.0572 (ppm)	18560.0896
2/23/2018 20:43:58	R1801417-004S 10X	Mo (202.032 nm)	0.0473 (ppm)	0.36	0.0473 (ppm)	499.3755
2/23/2018 20:43:58	R1801417-004S 10X	Na (588.995 nm)	9.6699 (ppm)	1.02	9.6699 (ppm)	518196.6206
2/23/2018 20:43:58	R1801417-004S 10X	Ni (230.299 nm)	0.0486 (ppm)	1.00	0.0486 (ppm)	323.5181
2/23/2018 20:43:58	R1801417-004S 10X	Pb (220.353 nm)	0.0475 (ppm)	1.79	0.0475 (ppm)	114.0078
2/23/2018 20:43:58	R1801417-004S 10X	Sb (217.582 nm)	0.0428 (ppm)	0.92	0.0428 (ppm)	66.6248
2/23/2018 20:43:58	R1801417-004S 10X	Se (196.026 nm)	0.0888 (ppm)	3.56	0.0888 (ppm)	82.6111
2/23/2018 20:43:58	R1801417-004S 10X	Sn (189.925 nm)	0.4682 (ppm)	0.75	0.4682 (ppm)	577.9457
2/23/2018 20:43:58	R1801417-004S 10X	Sr (216.596 nm)	0.2038 (ppm)	0.38	0.2038 (ppm)	2817.8367
2/23/2018 20:43:58	R1801417-004S 10X	Ti (336.122 nm)	0.0473 (ppm)	0.43	0.0473 (ppm)	10088.4823
2/23/2018 20:43:58	R1801417-004S 10X	Ti (351.923 nm)	0.1701 (ppm)	0.65	0.1701 (ppm)	528.1336
2/23/2018 20:43:58	R1801417-004S 10X	V (292.401 nm)	0.0474 (ppm)	0.47	0.0474 (ppm)	1911.7445
2/23/2018 20:43:58	R1801417-004S 10X	Y (360.074 nm)	1.02 (Ratio)	0.73	1.02 (Ratio)	1007675.91
2/23/2018 20:43:58	R1801417-004S 10X	Y_R (360.074 nm)	1.02 (Ratio)	0.73	1.02 (Ratio)	1009142.52
2/23/2018 20:43:58	R1801417-004S 10X	Zn (213.857 nm)	0.0983 (ppm)	0.41	0.0983 (ppm)	2939.7003
2/23/2018 20:47:19	Continuing Calibration Verification	Ag (328.068 nm)	0.4729 (ppm)	0.45	0.4729 (ppm)	36607.5739
2/23/2018 20:47:19	Continuing Calibration Verification	Al (394.401 nm)	9.4463 (ppm)	0.45	9.4463 (ppm)	136726.9918
2/23/2018 20:47:19	Continuing Calibration Verification	As (188.980 nm)	0.9353 (ppm)	0.56	0.9353 (ppm)	873.2907
2/23/2018 20:47:19	Continuing Calibration Verification	B (249.772 nm)	2.4133 (ppm)	0.46	2.4133 (ppm)	73458.6252
2/23/2018 20:47:19	Continuing Calibration Verification	Ba (230.424 nm)	10.1156 (ppm)	0.60	10.1156 (ppm)	353587.7933
2/23/2018 20:47:19	Continuing Calibration Verification	Be (313.107 nm)	0.2519 (ppm)	0.65	0.2519 (ppm)	379124.6886
2/23/2018 20:47:19	Continuing Calibration Verification	Ca (227.547 nm)	23.3863 (ppm)	0.35	23.3863 (ppm)	1642.0666
2/23/2018 20:47:19	Continuing Calibration Verification	Cd (214.439 nm)	0.4878 (ppm)	0.67	0.4878 (ppm)	10474.4081
2/23/2018 20:47:19	Continuing Calibration Verification	Co (230.786 nm)	2.5276 (ppm)	0.51	2.5276 (ppm)	26909.0543
2/23/2018 20:47:19	Continuing Calibration Verification	Cr (267.716 nm)	0.5218 (ppm)	0.66	0.5218 (ppm)	25238.4702
2/23/2018 20:47:19	Continuing Calibration Verification	Cu (327.395 nm)	1.2068 (ppm)	0.38	1.2068 (ppm)	84849.1306
2/23/2018 20:47:19	Continuing Calibration Verification	Fe (234.350 nm)	5.0057 (ppm)	0.56	5.0057 (ppm)	56347.2307
2/23/2018 20:47:19	Continuing Calibration Verification	K (766.491 nm)	24.3312 (ppm)	0.37	24.3312 (ppm)	89508.5193
2/23/2018 20:47:19	Continuing Calibration Verification	Mg (279.078 nm)	24.5445 (ppm)	0.50	24.5445 (ppm)	50680.3920

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:47:19	Continuing Calibration Verification	Mn (257.610 nm)	0.7605 (ppm)	0.63	0.7605 (ppm)	246881.9936
2/23/2018 20:47:19	Continuing Calibration Verification	Mo (202.032 nm)	2.3958 (ppm)	0.57	2.3958 (ppm)	25091.2008
2/23/2018 20:47:19	Continuing Calibration Verification	Na (588.995 nm)	24.9732 (ppm)	0.26	24.9732 (ppm)	1345552.9233
2/23/2018 20:47:19	Continuing Calibration Verification	Ni (230.299 nm)	2.0163 (ppm)	0.61	2.0163 (ppm)	14364.0061
2/23/2018 20:47:19	Continuing Calibration Verification	Pb (220.353 nm)	0.4913 (ppm)	1.16	0.4913 (ppm)	1125.9598
2/23/2018 20:47:19	Continuing Calibration Verification	Sb (217.582 nm)	4.7426 (ppm)	0.46	4.7426 (ppm)	7546.0622
2/23/2018 20:47:19	Continuing Calibration Verification	Se (196.026 nm)	0.4709 (ppm)	0.29	0.4709 (ppm)	446.1061
2/23/2018 20:47:19	Continuing Calibration Verification	Sn (189.925 nm)	4.8842 (ppm)	0.50	4.8842 (ppm)	6018.4449
2/23/2018 20:47:19	Continuing Calibration Verification	Sr (216.596 nm)	2.5263 (ppm)	0.45	2.5263 (ppm)	34982.9178
2/23/2018 20:47:19	Continuing Calibration Verification	Ti (336.122 nm)	2.4585 (ppm)	0.72	2.4585 (ppm)	551320.6247
2/23/2018 20:47:19	Continuing Calibration Verification	Tl (351.923 nm)	0.9685 (ppm)	0.26	0.9685 (ppm)	2920.8827
2/23/2018 20:47:19	Continuing Calibration Verification	V (292.401 nm)	2.4812 (ppm)	0.54	2.4812 (ppm)	94997.5361
2/23/2018 20:47:19	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.50	0.97 (Ratio)	960823.37
2/23/2018 20:47:19	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.50	0.97 (Ratio)	962276.50
2/23/2018 20:47:19	Continuing Calibration Verification	Zn (213.857 nm)	0.9746 (ppm)	0.58	0.9746 (ppm)	29412.9811
2/23/2018 20:50:40	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-117.7791
2/23/2018 20:50:40	Continuing Calibration Blank	Al (394.401 nm)	0.0073 (ppm)	2.93	0.0073 (ppm)	172.1488
2/23/2018 20:50:40	Continuing Calibration Blank	As (188.980 nm)	-0.0011 u (ppm)	21.14	-0.0011 (ppm)	-3.7130
2/23/2018 20:50:40	Continuing Calibration Blank	B (249.772 nm)	0.0019 (ppm)	13.62	0.0019 (ppm)	145.0914
2/23/2018 20:50:40	Continuing Calibration Blank	Ba (230.424 nm)	0.0040 (ppm)	1.64	0.0040 (ppm)	145.8597
2/23/2018 20:50:40	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	4.06	0.0001 (ppm)	-399.3131
2/23/2018 20:50:40	Continuing Calibration Blank	Ca (227.547 nm)	-0.0053 u (ppm)	> 100.00	-0.0053 (ppm)	7.0909
2/23/2018 20:50:40	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	26.77	0.0002 (ppm)	20.1672
2/23/2018 20:50:40	Continuing Calibration Blank	Co (230.786 nm)	0.0012 (ppm)	20.06	0.0012 (ppm)	7.3935
2/23/2018 20:50:40	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	55.80	0.0002 (ppm)	5.6686
2/23/2018 20:50:40	Continuing Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	19.56	0.0004 (ppm)	57.7152
2/23/2018 20:50:40	Continuing Calibration Blank	Fe (234.350 nm)	0.0049 (ppm)	6.83	0.0049 (ppm)	74.3569
2/23/2018 20:50:40	Continuing Calibration Blank	K (766.491 nm)	0.0226 (ppm)	25.02	0.0226 (ppm)	80.0590
2/23/2018 20:50:40	Continuing Calibration Blank	Mg (279.078 nm)	0.0118 (ppm)	15.09	0.0118 (ppm)	20.0016
2/23/2018 20:50:40	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	3.84	0.0004 (ppm)	116.4628
2/23/2018 20:50:40	Continuing Calibration Blank	Mo (202.032 nm)	0.0028 (ppm)	8.98	0.0028 (ppm)	32.9224
2/23/2018 20:50:40	Continuing Calibration Blank	Na (588.995 nm)	0.0095 (ppm)	8.84	0.0095 (ppm)	-4078.1792
2/23/2018 20:50:40	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 (ppm)	75.89	0.0005 (ppm)	-19.7102
2/23/2018 20:50:40	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.1003
2/23/2018 20:50:40	Continuing Calibration Blank	Sb (217.582 nm)	0.0043 (ppm)	11.10	0.0043 (ppm)	5.3300
2/23/2018 20:50:40	Continuing Calibration Blank	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.9635
2/23/2018 20:50:40	Continuing Calibration Blank	Sn (189.925 nm)	0.0018 (ppm)	12.02	0.0018 (ppm)	3.2766
2/23/2018 20:50:40	Continuing Calibration Blank	Sr (216.596 nm)	0.0011 (ppm)	2.04	0.0011 (ppm)	10.2085
2/23/2018 20:50:40	Continuing Calibration Blank	Ti (336.122 nm)	0.0018 (ppm)	2.75	0.0018 (ppm)	-118.2810
2/23/2018 20:50:40	Continuing Calibration Blank	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	19.2659
2/23/2018 20:50:40	Continuing Calibration Blank	V (292.401 nm)	0.0010 (ppm)	19.31	0.0010 (ppm)	137.0654
2/23/2018 20:50:40	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.78	1.02 (Ratio)	1011385.21
2/23/2018 20:50:40	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.78	1.02 (Ratio)	1012828.78
2/23/2018 20:50:40	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	11.28	0.0004 (ppm)	-18.4676
2/23/2018 20:54:01	R1801417-004SD 10X	Ag (328.068 nm)	0.0048 (ppm)	0.45	0.0048 (ppm)	255.6116
2/23/2018 20:54:01	R1801417-004SD 10X	Al (394.401 nm)	0.2038 (ppm)	0.83	0.2038 (ppm)	3015.1883
2/23/2018 20:54:01	R1801417-004SD 10X	As (188.980 nm)	0.0047 (ppm)	13.62	0.0047 (ppm)	1.7798
2/23/2018 20:54:01	R1801417-004SD 10X	B (249.772 nm)	0.1177 (ppm)	0.66	0.1177 (ppm)	3666.2515
2/23/2018 20:54:01	R1801417-004SD 10X	Ba (230.424 nm)	0.2036 (ppm)	0.65	0.2036 (ppm)	7122.1638
2/23/2018 20:54:01	R1801417-004SD 10X	Be (313.107 nm)	0.0047 (ppm)	0.57	0.0047 (ppm)	6542.4460
2/23/2018 20:54:01	R1801417-004SD 10X	Ca (227.547 nm)	0.9606 (ppm)	3.40	0.9606 (ppm)	74.6073

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 20:54:01	R1801417-004SD 10X	Cd (214.439 nm)	0.0047 (ppm)	2.53	0.0047 (ppm)	116.0915
2/23/2018 20:54:01	R1801417-004SD 10X	Co (230.786 nm)	0.0494 (ppm)	1.16	0.0494 (ppm)	520.7472
2/23/2018 20:54:01	R1801417-004SD 10X	Cr (267.716 nm)	0.0257 (ppm)	0.24	0.0257 (ppm)	1240.4949
2/23/2018 20:54:01	R1801417-004SD 10X	Cu (327.395 nm)	0.0357 (ppm)	1.05	0.0357 (ppm)	2534.2501
2/23/2018 20:54:01	R1801417-004SD 10X	Fe (234.350 nm)	0.5103 (ppm)	0.49	0.5103 (ppm)	5760.9669
2/23/2018 20:54:01	R1801417-004SD 10X	K (766.491 nm)	2.1826 (ppm)	0.89	2.1826 (ppm)	8026.4947
2/23/2018 20:54:01	R1801417-004SD 10X	Mg (279.078 nm)	0.3939 (ppm)	0.52	0.3939 (ppm)	809.0477
2/23/2018 20:54:01	R1801417-004SD 10X	Mn (257.610 nm)	0.0584 (ppm)	0.52	0.0584 (ppm)	18946.6323
2/23/2018 20:54:01	R1801417-004SD 10X	Mo (202.032 nm)	0.0482 (ppm)	0.94	0.0482 (ppm)	507.9156
2/23/2018 20:54:01	R1801417-004SD 10X	Na (588.995 nm)	9.8423 (ppm)	1.13	9.8423 (ppm)	527519.1028
2/23/2018 20:54:01	R1801417-004SD 10X	Ni (230.299 nm)	0.0494 (ppm)	0.69	0.0494 (ppm)	329.0772
2/23/2018 20:54:01	R1801417-004SD 10X	Pb (220.353 nm)	0.0480 (ppm)	2.55	0.0480 (ppm)	115.0735
2/23/2018 20:54:01	R1801417-004SD 10X	Sb (217.582 nm)	0.0445 (ppm)	2.99	0.0445 (ppm)	69.2590
2/23/2018 20:54:01	R1801417-004SD 10X	Se (196.026 nm)	0.0901 (ppm)	2.44	0.0901 (ppm)	83.8342
2/23/2018 20:54:01	R1801417-004SD 10X	Sn (189.925 nm)	0.4714 (ppm)	0.35	0.4714 (ppm)	581.8438
2/23/2018 20:54:01	R1801417-004SD 10X	Sr (216.596 nm)	0.2077 (ppm)	0.06	0.2077 (ppm)	2871.3812
2/23/2018 20:54:01	R1801417-004SD 10X	Ti (336.122 nm)	0.0474 (ppm)	0.58	0.0474 (ppm)	10111.1598
2/23/2018 20:54:01	R1801417-004SD 10X	Tl (351.923 nm)	0.1701 (ppm)	1.49	0.1701 (ppm)	527.9165
2/23/2018 20:54:01	R1801417-004SD 10X	V (292.401 nm)	0.0479 (ppm)	0.32	0.0479 (ppm)	1930.9754
2/23/2018 20:54:01	R1801417-004SD 10X	Y (360.074 nm)	1.02 (Ratio)	0.54	1.02 (Ratio)	1006814.93
2/23/2018 20:54:01	R1801417-004SD 10X	Y_R (360.074 nm)	1.02 (Ratio)	0.54	1.02 (Ratio)	1008268.87
2/23/2018 20:54:01	R1801417-004SD 10X	Zn (213.857 nm)	0.1060 (ppm)	0.91	0.1060 (ppm)	3172.3145
2/23/2018 20:57:22	R1801417-004A 10X	Ag (328.068 nm)	0.0420 (ppm)	0.24	0.0420 (ppm)	3143.5358
2/23/2018 20:57:22	R1801417-004A 10X	Al (394.401 nm)	1.8423 (ppm)	0.03	1.8423 (ppm)	26719.7028
2/23/2018 20:57:22	R1801417-004A 10X	As (188.980 nm)	0.0388 (ppm)	11.09	0.0388 (ppm)	33.8564
2/23/2018 20:57:22	R1801417-004A 10X	B (249.772 nm)	0.9707 (ppm)	0.15	0.9707 (ppm)	29599.1992
2/23/2018 20:57:22	R1801417-004A 10X	Ba (230.424 nm)	2.0524 (ppm)	0.38	2.0524 (ppm)	71743.4531
2/23/2018 20:57:22	R1801417-004A 10X	Be (313.107 nm)	0.0491 (ppm)	0.27	0.0491 (ppm)	73397.7601
2/23/2018 20:57:22	R1801417-004A 10X	Ca (227.547 nm)	2.4446 (ppm)	1.64	2.4446 (ppm)	178.3318
2/23/2018 20:57:22	R1801417-004A 10X	Cd (214.439 nm)	0.0497 (ppm)	0.49	0.0497 (ppm)	1080.7988
2/23/2018 20:57:22	R1801417-004A 10X	Co (230.786 nm)	0.5040 (ppm)	0.26	0.5040 (ppm)	5361.5818
2/23/2018 20:57:22	R1801417-004A 10X	Cr (267.716 nm)	0.2109 (ppm)	0.29	0.2109 (ppm)	10198.7941
2/23/2018 20:57:22	R1801417-004A 10X	Cu (327.395 nm)	0.2518 (ppm)	0.31	0.2518 (ppm)	17722.8745
2/23/2018 20:57:22	R1801417-004A 10X	Fe (234.350 nm)	1.3468 (ppm)	0.38	1.3468 (ppm)	15174.4312
2/23/2018 20:57:22	R1801417-004A 10X	K (766.491 nm)	19.0726 (ppm)	0.49	19.0726 (ppm)	70162.4961
2/23/2018 20:57:22	R1801417-004A 10X	Mg (279.078 nm)	2.0996 (ppm)	0.32	2.0996 (ppm)	4331.3535
2/23/2018 20:57:22	R1801417-004A 10X	Mn (257.610 nm)	0.5098 (ppm)	0.29	0.5098 (ppm)	165500.8870
2/23/2018 20:57:22	R1801417-004A 10X	Mo (202.032 nm)	0.4827 (ppm)	0.33	0.4827 (ppm)	5058.0951
2/23/2018 20:57:22	R1801417-004A 10X	Na (588.995 nm)	26.8342 (ppm)	0.76	26.8342 (ppm)	1446160.4189
2/23/2018 20:57:22	R1801417-004A 10X	Ni (230.299 nm)	0.4907 (ppm)	0.49	0.4907 (ppm)	3478.2443
2/23/2018 20:57:22	R1801417-004A 10X	Pb (220.353 nm)	0.4950 (ppm)	0.16	0.4950 (ppm)	1134.4313
2/23/2018 20:57:22	R1801417-004A 10X	Sb (217.582 nm)	0.4726 (ppm)	0.77	0.4726 (ppm)	750.6486
2/23/2018 20:57:22	R1801417-004A 10X	Se (196.026 nm)	0.9570 (ppm)	0.17	0.9570 (ppm)	908.5572
2/23/2018 20:57:22	R1801417-004A 10X	Sn (189.925 nm)	4.9429 (ppm)	0.55	4.9429 (ppm)	6090.7958
2/23/2018 20:57:22	R1801417-004A 10X	Sr (216.596 nm)	2.1285 (ppm)	0.55	2.1285 (ppm)	29473.0811
2/23/2018 20:57:22	R1801417-004A 10X	Ti (336.122 nm)	0.4880 (ppm)	0.12	0.4880 (ppm)	109027.7532
2/23/2018 20:57:22	R1801417-004A 10X	Tl (351.923 nm)	1.8221 (ppm)	0.03	1.8221 (ppm)	5479.3648
2/23/2018 20:57:22	R1801417-004A 10X	V (292.401 nm)	0.4901 (ppm)	0.13	0.4901 (ppm)	18841.6666
2/23/2018 20:57:22	R1801417-004A 10X	Y (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	982830.62
2/23/2018 20:57:22	R1801417-004A 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	984277.21
2/23/2018 20:57:22	R1801417-004A 10X	Zn (213.857 nm)	0.5292 (ppm)	0.39	0.5292 (ppm)	15957.2867

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:00:42	R1801417-004L 10X	Ag (328.068 nm)	-0.0001 u (ppm)	43.69	-0.0001 (ppm)	-123.4545
2/23/2018 21:00:42	R1801417-004L 10X	Al (394.401 nm)	0.0073 (ppm)	3.07	0.0073 (ppm)	172.1888
2/23/2018 21:00:42	R1801417-004L 10X	As (188.980 nm)	0.0007 u (ppm)	96.62	0.0007 (ppm)	-1.9719
2/23/2018 21:00:42	R1801417-004L 10X	B (249.772 nm)	0.0051 (ppm)	2.70	0.0051 (ppm)	243.3371
2/23/2018 21:00:42	R1801417-004L 10X	Ba (230.424 nm)	0.0005 (ppm)	13.83	0.0005 (ppm)	20.5161
2/23/2018 21:00:42	R1801417-004L 10X	Be (313.107 nm)	0.0000 (ppm)	18.79	0.0000 (ppm)	-536.8336
2/23/2018 21:00:42	R1801417-004L 10X	Ca (227.547 nm)	0.1057 (ppm)	28.08	0.1057 (ppm)	14.8530
2/23/2018 21:00:42	R1801417-004L 10X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.3739
2/23/2018 21:00:42	R1801417-004L 10X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.5778
2/23/2018 21:00:42	R1801417-004L 10X	Cr (267.716 nm)	0.0009 (ppm)	6.92	0.0009 (ppm)	38.4255
2/23/2018 21:00:42	R1801417-004L 10X	Cu (327.395 nm)	0.0020 (ppm)	3.55	0.0020 (ppm)	171.6957
2/23/2018 21:00:42	R1801417-004L 10X	Fe (234.350 nm)	0.0748 (ppm)	1.30	0.0748 (ppm)	861.2069
2/23/2018 21:00:42	R1801417-004L 10X	K (766.491 nm)	0.1022 (ppm)	10.28	0.1022 (ppm)	372.9791
2/23/2018 21:00:42	R1801417-004L 10X	Mg (279.078 nm)	0.0400 (ppm)	1.72	0.0400 (ppm)	78.1569
2/23/2018 21:00:42	R1801417-004L 10X	Mn (257.610 nm)	0.0016 (ppm)	0.75	0.0016 (ppm)	518.6954
2/23/2018 21:00:42	R1801417-004L 10X	Mo (202.032 nm)	0.0009 (ppm)	21.86	0.0009 (ppm)	13.2086
2/23/2018 21:00:42	R1801417-004L 10X	Na (588.995 nm)	1.6188 (ppm)	0.70	1.6188 (ppm)	82928.1961
2/23/2018 21:00:42	R1801417-004L 10X	Ni (230.299 nm)	0.0004 (ppm)	65.43	0.0004 (ppm)	-20.4498
2/23/2018 21:00:42	R1801417-004L 10X	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.9773
2/23/2018 21:00:42	R1801417-004L 10X	Sb (217.582 nm)	0.0012 (ppm)	71.44	0.0012 (ppm)	0.3557
2/23/2018 21:00:42	R1801417-004L 10X	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8663
2/23/2018 21:00:42	R1801417-004L 10X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.4606
2/23/2018 21:00:42	R1801417-004L 10X	Sr (216.596 nm)	0.0018 (ppm)	1.64	0.0018 (ppm)	20.4051
2/23/2018 21:00:42	R1801417-004L 10X	Ti (336.122 nm)	0.0004 (ppm)	9.57	0.0004 (ppm)	-420.3644
2/23/2018 21:00:42	R1801417-004L 10X	Tl (351.923 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	16.9497
2/23/2018 21:00:42	R1801417-004L 10X	V (292.401 nm)	0.0001 (ppm)	57.47	0.0001 (ppm)	102.5100
2/23/2018 21:00:42	R1801417-004L 10X	Y (360.074 nm)	1.03 (Ratio)	0.61	1.03 (Ratio)	1014691.81
2/23/2018 21:00:42	R1801417-004L 10X	Y_R (360.074 nm)	1.03 (Ratio)	0.60	1.03 (Ratio)	1016130.57
2/23/2018 21:00:42	R1801417-004L 10X	Zn (213.857 nm)	0.0176 (ppm)	0.68	0.0176 (ppm)	500.0772
2/23/2018 21:04:03	R1801417-006 10X	Ag (328.068 nm)	-0.0002 u (ppm)	45.44	-0.0002 (ppm)	-130.9053
2/23/2018 21:04:03	R1801417-006 10X	Al (394.401 nm)	10.9340 (ppm)	0.41	10.9340 (ppm)	158250.1651
2/23/2018 21:04:03	R1801417-006 10X	As (188.980 nm)	0.0037 (ppm)	43.28	0.0037 (ppm)	0.8483
2/23/2018 21:04:03	R1801417-006 10X	B (249.772 nm)	0.0111 (ppm)	1.03	0.0111 (ppm)	424.7764
2/23/2018 21:04:03	R1801417-006 10X	Ba (230.424 nm)	0.0625 (ppm)	0.51	0.0625 (ppm)	2188.0783
2/23/2018 21:04:03	R1801417-006 10X	Be (313.107 nm)	0.0005 (ppm)	0.73	0.0005 (ppm)	160.3598
2/23/2018 21:04:03	R1801417-006 10X	Ca (227.547 nm)	2.7380 (ppm)	1.14	2.7380 (ppm)	198.8399
2/23/2018 21:04:03	R1801417-006 10X	Cd (214.439 nm)	0.0003 (ppm)	37.25	0.0003 (ppm)	22.6892
2/23/2018 21:04:03	R1801417-006 10X	Co (230.786 nm)	0.0072 (ppm)	3.42	0.0072 (ppm)	70.8889
2/23/2018 21:04:03	R1801417-006 10X	Cr (267.716 nm)	0.0177 (ppm)	0.29	0.0177 (ppm)	848.9549
2/23/2018 21:04:03	R1801417-006 10X	Cu (327.395 nm)	0.0131 (ppm)	1.06	0.0131 (ppm)	949.2072
2/23/2018 21:04:03	R1801417-006 10X	Fe (234.350 nm)	23.8245 o (ppm)	0.12	23.8245 (ppm)	268113.0204
2/23/2018 21:04:03	R1801417-006 10X	K (766.491 nm)	1.9234 (ppm)	0.68	1.9234 (ppm)	7073.0246
2/23/2018 21:04:03	R1801417-006 10X	Mg (279.078 nm)	4.5051 (ppm)	0.22	4.5051 (ppm)	9298.8474
2/23/2018 21:04:03	R1801417-006 10X	Mn (257.610 nm)	0.3052 (ppm)	0.03	0.3052 (ppm)	99082.3681
2/23/2018 21:04:03	R1801417-006 10X	Mo (202.032 nm)	0.0011 (ppm)	13.66	0.0011 (ppm)	15.4548
2/23/2018 21:04:03	R1801417-006 10X	Na (588.995 nm)	0.1986 (ppm)	1.22	0.1986 (ppm)	6145.4899
2/23/2018 21:04:03	R1801417-006 10X	Ni (230.299 nm)	0.0187 (ppm)	1.82	0.0187 (ppm)	110.4448
2/23/2018 21:04:03	R1801417-006 10X	Pb (220.353 nm)	0.0107 (ppm)	2.99	0.0107 (ppm)	30.1122
2/23/2018 21:04:03	R1801417-006 10X	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.5202
2/23/2018 21:04:03	R1801417-006 10X	Se (196.026 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-0.3383
2/23/2018 21:04:03	R1801417-006 10X	Sn (189.925 nm)	0.0027 (ppm)	18.61	0.0027 (ppm)	4.4440

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:04:03	R1801417-006 10X	Sr (216.596 nm)	0.0146 (ppm)	0.90	0.0146 (ppm)	197.5259
2/23/2018 21:04:03	R1801417-006 10X	Ti (336.122 nm)	0.0783 (ppm)	0.13	0.0783 (ppm)	17062.6126
2/23/2018 21:04:03	R1801417-006 10X	Tl (351.923 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	12.4506
2/23/2018 21:04:03	R1801417-006 10X	V (292.401 nm)	0.0215 (ppm)	0.80	0.0215 (ppm)	919.4189
2/23/2018 21:04:03	R1801417-006 10X	Y (360.074 nm)	1.01 (Ratio)	0.94	1.01 (Ratio)	1000186.48
2/23/2018 21:04:03	R1801417-006 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.94	1.01 (Ratio)	1001636.47
2/23/2018 21:04:03	R1801417-006 10X	Zn (213.857 nm)	0.0540 (ppm)	0.45	0.0540 (ppm)	1601.0441
2/23/2018 21:07:23	R1801417-008 10X	Ag (328.068 nm)	-0.0003 u (ppm)	44.30	-0.0003 (ppm)	-136.4693
2/23/2018 21:07:23	R1801417-008 10X	Al (394.401 nm)	5.7819 (ppm)	0.76	5.7819 (ppm)	83714.2481
2/23/2018 21:07:23	R1801417-008 10X	As (188.980 nm)	0.0033 (ppm)	97.83	0.0033 (ppm)	0.4680
2/23/2018 21:07:23	R1801417-008 10X	B (249.772 nm)	0.0090 (ppm)	2.25	0.0090 (ppm)	361.3033
2/23/2018 21:07:23	R1801417-008 10X	Ba (230.424 nm)	0.0324 (ppm)	0.96	0.0324 (ppm)	1137.3131
2/23/2018 21:07:23	R1801417-008 10X	Be (313.107 nm)	0.0003 (ppm)	3.38	0.0003 (ppm)	-115.4113
2/23/2018 21:07:23	R1801417-008 10X	Ca (227.547 nm)	39.7152 (ppm)	0.82	39.7152 (ppm)	2783.3891
2/23/2018 21:07:23	R1801417-008 10X	Cd (214.439 nm)	0.0002 (ppm)	51.62	0.0002 (ppm)	20.4726
2/23/2018 21:07:23	R1801417-008 10X	Co (230.786 nm)	0.0053 (ppm)	6.33	0.0053 (ppm)	50.6805
2/23/2018 21:07:23	R1801417-008 10X	Cr (267.716 nm)	0.0101 (ppm)	1.23	0.0101 (ppm)	481.1188
2/23/2018 21:07:23	R1801417-008 10X	Cu (327.395 nm)	0.0134 (ppm)	1.04	0.0134 (ppm)	971.2970
2/23/2018 21:07:23	R1801417-008 10X	Fe (234.350 nm)	13.6255 o (ppm)	1.07	13.6255 (ppm)	153345.3860
2/23/2018 21:07:23	R1801417-008 10X	K (766.491 nm)	1.0050 (ppm)	0.41	1.0050 (ppm)	3694.1534
2/23/2018 21:07:23	R1801417-008 10X	Mg (279.078 nm)	15.2151 (ppm)	0.98	15.2151 (ppm)	31414.9682
2/23/2018 21:07:23	R1801417-008 10X	Mn (257.610 nm)	0.3024 (ppm)	1.07	0.3024 (ppm)	98172.1231
2/23/2018 21:07:23	R1801417-008 10X	Mo (202.032 nm)	0.0011 (ppm)	9.62	0.0011 (ppm)	15.3322
2/23/2018 21:07:23	R1801417-008 10X	Na (588.995 nm)	0.1702 (ppm)	0.71	0.1702 (ppm)	4606.8259
2/23/2018 21:07:23	R1801417-008 10X	Ni (230.299 nm)	0.0124 (ppm)	1.46	0.0124 (ppm)	65.5146
2/23/2018 21:07:23	R1801417-008 10X	Pb (220.353 nm)	0.0095 (ppm)	7.23	0.0095 (ppm)	27.3156
2/23/2018 21:07:23	R1801417-008 10X	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.9850
2/23/2018 21:07:23	R1801417-008 10X	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.5239
2/23/2018 21:07:23	R1801417-008 10X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.9479
2/23/2018 21:07:23	R1801417-008 10X	Sr (216.596 nm)	0.0410 (ppm)	1.59	0.0410 (ppm)	563.8551
2/23/2018 21:07:23	R1801417-008 10X	Ti (336.122 nm)	0.0801 (ppm)	1.08	0.0801 (ppm)	17464.1855
2/23/2018 21:07:23	R1801417-008 10X	Tl (351.923 nm)	-0.0020 u (ppm)	80.80	-0.0020 (ppm)	12.0225
2/23/2018 21:07:23	R1801417-008 10X	V (292.401 nm)	0.0129 (ppm)	1.30	0.0129 (ppm)	592.7325
2/23/2018 21:07:23	R1801417-008 10X	Y (360.074 nm)	0.99 (Ratio)	0.34	0.99 (Ratio)	982996.44
2/23/2018 21:07:23	R1801417-008 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.34	0.99 (Ratio)	984465.42
2/23/2018 21:07:23	R1801417-008 10X	Zn (213.857 nm)	0.0431 (ppm)	0.57	0.0431 (ppm)	1271.2571
2/23/2018 21:10:45	R1801417-010 10X	Ag (328.068 nm)	-0.0002 u (ppm)	90.06	-0.0002 (ppm)	-128.8584
2/23/2018 21:10:45	R1801417-010 10X	Al (394.401 nm)	6.8295 (ppm)	2.74	6.8295 (ppm)	98870.1502
2/23/2018 21:10:45	R1801417-010 10X	As (188.980 nm)	0.0065 (ppm)	48.61	0.0065 (ppm)	3.4051
2/23/2018 21:10:45	R1801417-010 10X	B (249.772 nm)	0.0096 (ppm)	4.72	0.0096 (ppm)	380.7107
2/23/2018 21:10:45	R1801417-010 10X	Ba (230.424 nm)	0.0419 (ppm)	2.28	0.0419 (ppm)	1470.1562
2/23/2018 21:10:45	R1801417-010 10X	Be (313.107 nm)	0.0004 (ppm)	2.28	0.0004 (ppm)	-27.8987
2/23/2018 21:10:45	R1801417-010 10X	Ca (227.547 nm)	34.5933 (ppm)	2.76	34.5933 (ppm)	2425.3936
2/23/2018 21:10:45	R1801417-010 10X	Cd (214.439 nm)	0.0003 (ppm)	41.19	0.0003 (ppm)	21.7125
2/23/2018 21:10:45	R1801417-010 10X	Co (230.786 nm)	0.0061 (ppm)	6.34	0.0061 (ppm)	59.1835
2/23/2018 21:10:45	R1801417-010 10X	Cr (267.716 nm)	0.0116 (ppm)	1.80	0.0116 (ppm)	556.1892
2/23/2018 21:10:45	R1801417-010 10X	Cu (327.395 nm)	0.0156 (ppm)	2.61	0.0156 (ppm)	1124.6979
2/23/2018 21:10:45	R1801417-010 10X	Fe (234.350 nm)	15.6986 o (ppm)	2.58	15.6986 (ppm)	176673.4246
2/23/2018 21:10:45	R1801417-010 10X	K (766.491 nm)	0.9942 (ppm)	3.25	0.9942 (ppm)	3654.6160
2/23/2018 21:10:45	R1801417-010 10X	Mg (279.078 nm)	16.7358 (ppm)	2.60	16.7358 (ppm)	34555.4276
2/23/2018 21:10:45	R1801417-010 10X	Mn (257.610 nm)	0.3620 (ppm)	2.60	0.3620 (ppm)	117523.3456

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:10:45	R1801417-010 10X	Mo (202.032 nm)	0.0006 (ppm)	59.37	0.0006 (ppm)	10.2989
2/23/2018 21:10:45	R1801417-010 10X	Na (588.995 nm)	0.1435 (ppm)	2.66	0.1435 (ppm)	3167.6984
2/23/2018 21:10:45	R1801417-010 10X	Ni (230.299 nm)	0.0151 (ppm)	4.71	0.0151 (ppm)	84.3973
2/23/2018 21:10:45	R1801417-010 10X	Pb (220.353 nm)	0.0082 (ppm)	15.05	0.0082 (ppm)	24.5093
2/23/2018 21:10:45	R1801417-010 10X	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.7949
2/23/2018 21:10:45	R1801417-010 10X	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.1226
2/23/2018 21:10:45	R1801417-010 10X	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	0.2650
2/23/2018 21:10:45	R1801417-010 10X	Sr (216.596 nm)	0.0350 (ppm)	3.57	0.0350 (ppm)	480.5146
2/23/2018 21:10:45	R1801417-010 10X	Ti (336.122 nm)	0.0430 (ppm)	2.53	0.0430 (ppm)	9133.1464
2/23/2018 21:10:45	R1801417-010 10X	Ti (351.923 nm)	-0.0031 u (ppm)	3.56	-0.0031 (ppm)	9.0103
2/23/2018 21:10:45	R1801417-010 10X	V (292.401 nm)	0.0145 (ppm)	2.79	0.0145 (ppm)	653.8831
2/23/2018 21:10:45	R1801417-010 10X	Y (360.074 nm)	1.00 (Ratio)	2.11	1.00 (Ratio)	989837.95
2/23/2018 21:10:45	R1801417-010 10X	Y_R (360.074 nm)	1.00 (Ratio)	2.11	1.00 (Ratio)	991330.82
2/23/2018 21:10:45	R1801417-010 10X	Zn (213.857 nm)	0.0573 (ppm)	2.02	0.0573 (ppm)	1698.5528
2/23/2018 21:14:05	R1801417-013 10X	Ag (328.068 nm)	-0.0001 u (ppm)	86.29	-0.0001 (ppm)	-126.3415
2/23/2018 21:14:05	R1801417-013 10X	Al (394.401 nm)	5.1091 (ppm)	1.32	5.1091 (ppm)	73980.6083
2/23/2018 21:14:05	R1801417-013 10X	As (188.980 nm)	0.0021 (ppm)	82.49	0.0021 (ppm)	-0.6331
2/23/2018 21:14:05	R1801417-013 10X	B (249.772 nm)	0.0113 (ppm)	1.50	0.0113 (ppm)	430.9033
2/23/2018 21:14:05	R1801417-013 10X	Ba (230.424 nm)	0.0341 (ppm)	1.66	0.0341 (ppm)	1195.1586
2/23/2018 21:14:05	R1801417-013 10X	Be (313.107 nm)	0.0003 (ppm)	3.98	0.0003 (ppm)	-193.9446
2/23/2018 21:14:05	R1801417-013 10X	Ca (227.547 nm)	92.4767 o (ppm)	0.97	92.4767 (ppm)	6471.2011
2/23/2018 21:14:05	R1801417-013 10X	Cd (214.439 nm)	0.0004 (ppm)	31.04	0.0004 (ppm)	23.2325
2/23/2018 21:14:05	R1801417-013 10X	Co (230.786 nm)	0.0039 (ppm)	7.13	0.0039 (ppm)	36.2412
2/23/2018 21:14:05	R1801417-013 10X	Cr (267.716 nm)	0.0108 (ppm)	0.63	0.0108 (ppm)	515.5693
2/23/2018 21:14:05	R1801417-013 10X	Cu (327.395 nm)	0.0127 (ppm)	1.54	0.0127 (ppm)	923.4335
2/23/2018 21:14:05	R1801417-013 10X	Fe (234.350 nm)	11.1474 o (ppm)	1.18	11.1474 (ppm)	125458.9182
2/23/2018 21:14:05	R1801417-013 10X	K (766.491 nm)	1.0085 (ppm)	1.39	1.0085 (ppm)	3707.0699
2/23/2018 21:14:05	R1801417-013 10X	Mg (279.078 nm)	44.5254 (ppm)	1.26	44.5254 (ppm)	91941.2835
2/23/2018 21:14:05	R1801417-013 10X	Mn (257.610 nm)	0.3280 (ppm)	1.22	0.3280 (ppm)	106484.7489
2/23/2018 21:14:05	R1801417-013 10X	Mo (202.032 nm)	0.0007 (ppm)	38.54	0.0007 (ppm)	11.2745
2/23/2018 21:14:05	R1801417-013 10X	Na (588.995 nm)	0.1464 (ppm)	1.99	0.1464 (ppm)	3324.1619
2/23/2018 21:14:05	R1801417-013 10X	Ni (230.299 nm)	0.0105 (ppm)	5.78	0.0105 (ppm)	51.8116
2/23/2018 21:14:05	R1801417-013 10X	Pb (220.353 nm)	0.0078 (ppm)	7.41	0.0078 (ppm)	23.6026
2/23/2018 21:14:05	R1801417-013 10X	Sb (217.582 nm)	0.0031 (ppm)	47.10	0.0031 (ppm)	3.4394
2/23/2018 21:14:05	R1801417-013 10X	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-2.8822
2/23/2018 21:14:05	R1801417-013 10X	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	2.2334
2/23/2018 21:14:05	R1801417-013 10X	Sr (216.596 nm)	0.0656 (ppm)	2.01	0.0656 (ppm)	903.8138
2/23/2018 21:14:05	R1801417-013 10X	Ti (336.122 nm)	0.0755 (ppm)	1.18	0.0755 (ppm)	16430.0902
2/23/2018 21:14:05	R1801417-013 10X	Ti (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	16.3089
2/23/2018 21:14:05	R1801417-013 10X	V (292.401 nm)	0.0115 (ppm)	0.94	0.0115 (ppm)	536.6958
2/23/2018 21:14:05	R1801417-013 10X	Y (360.074 nm)	0.96 (Ratio)	1.01	0.96 (Ratio)	953539.10
2/23/2018 21:14:05	R1801417-013 10X	Y_R (360.074 nm)	0.96 (Ratio)	1.01	0.96 (Ratio)	955008.61
2/23/2018 21:14:05	R1801417-013 10X	Zn (213.857 nm)	0.0734 (ppm)	1.27	0.0734 (ppm)	2186.0340
2/23/2018 21:17:27	R1801417-014 10X	Ag (328.068 nm)	-0.0001 u (ppm)	57.70	-0.0001 (ppm)	-123.4885
2/23/2018 21:17:27	R1801417-014 10X	Al (394.401 nm)	3.6614 (ppm)	0.55	3.6614 (ppm)	53035.9005
2/23/2018 21:17:27	R1801417-014 10X	As (188.980 nm)	0.0005 (ppm)	96.65	0.0005 (ppm)	-2.1474
2/23/2018 21:17:27	R1801417-014 10X	B (249.772 nm)	0.0106 (ppm)	2.01	0.0106 (ppm)	408.3252
2/23/2018 21:17:27	R1801417-014 10X	Ba (230.424 nm)	0.0223 (ppm)	0.71	0.0223 (ppm)	785.9316
2/23/2018 21:17:27	R1801417-014 10X	Be (313.107 nm)	0.0002 (ppm)	0.97	0.0002 (ppm)	-290.0131
2/23/2018 21:17:27	R1801417-014 10X	Ca (227.547 nm)	123.4376 o (ppm)	0.58	123.4376 (ppm)	8635.2377
2/23/2018 21:17:27	R1801417-014 10X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.3244



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:17:27	R1801417-014 10X	Co (230.786 nm)	0.0027 (ppm)	14.90	0.0027 (ppm)	22.8029
2/23/2018 21:17:27	R1801417-014 10X	Cr (267.716 nm)	0.0073 (ppm)	2.19	0.0073 (ppm)	345.8728
2/23/2018 21:17:27	R1801417-014 10X	Cu (327.395 nm)	0.0133 (ppm)	1.86	0.0133 (ppm)	962.0115
2/23/2018 21:17:27	R1801417-014 10X	Fe (234.350 nm)	8.9736 (ppm)	0.93	8.9736 (ppm)	100997.4219
2/23/2018 21:17:27	R1801417-014 10X	K (766.491 nm)	0.8866 (ppm)	0.75	0.8866 (ppm)	3258.6502
2/23/2018 21:17:27	R1801417-014 10X	Mg (279.078 nm)	63.5218 o (ppm)	0.83	63.5218 (ppm)	131169.0560
2/23/2018 21:17:27	R1801417-014 10X	Mn (257.610 nm)	0.3398 (ppm)	0.93	0.3398 (ppm)	110307.2083
2/23/2018 21:17:27	R1801417-014 10X	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	6.5462
2/23/2018 21:17:27	R1801417-014 10X	Na (588.995 nm)	0.1846 (ppm)	0.34	0.1846 (ppm)	5388.0770
2/23/2018 21:17:27	R1801417-014 10X	Ni (230.299 nm)	0.0071 (ppm)	14.25	0.0071 (ppm)	27.5616
2/23/2018 21:17:27	R1801417-014 10X	Pb (220.353 nm)	0.0046 (ppm)	25.36	0.0046 (ppm)	16.1352
2/23/2018 21:17:27	R1801417-014 10X	Sb (217.582 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	0.5994
2/23/2018 21:17:27	R1801417-014 10X	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.8226
2/23/2018 21:17:27	R1801417-014 10X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.9508
2/23/2018 21:17:27	R1801417-014 10X	Sr (216.596 nm)	0.0855 (ppm)	0.98	0.0855 (ppm)	1179.6133
2/23/2018 21:17:27	R1801417-014 10X	Ti (336.122 nm)	0.0732 (ppm)	0.78	0.0732 (ppm)	15918.1744
2/23/2018 21:17:27	R1801417-014 10X	Tl (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	18.7556
2/23/2018 21:17:27	R1801417-014 10X	V (292.401 nm)	0.0101 (ppm)	1.42	0.0101 (ppm)	486.1597
2/23/2018 21:17:27	R1801417-014 10X	Y (360.074 nm)	0.95 (Ratio)	0.36	0.95 (Ratio)	943958.46
2/23/2018 21:17:27	R1801417-014 10X	Y_R (360.074 nm)	0.95 (Ratio)	0.36	0.95 (Ratio)	945381.49
2/23/2018 21:17:27	R1801417-014 10X	Zn (213.857 nm)	0.0403 (ppm)	1.26	0.0403 (ppm)	1187.5057
2/23/2018 21:20:48	R1801417-015 10X	Ag (328.068 nm)	-0.0001 u (ppm)	69.13	-0.0001 (ppm)	-126.6806
2/23/2018 21:20:48	R1801417-015 10X	Al (394.401 nm)	3.5493 (ppm)	0.74	3.5493 (ppm)	51415.0969
2/23/2018 21:20:48	R1801417-015 10X	As (188.980 nm)	0.0017 (ppm)	66.61	0.0017 (ppm)	-1.0644
2/23/2018 21:20:48	R1801417-015 10X	B (249.772 nm)	0.0101 (ppm)	0.83	0.0101 (ppm)	395.1329
2/23/2018 21:20:48	R1801417-015 10X	Ba (230.424 nm)	0.0189 (ppm)	0.54	0.0189 (ppm)	664.5695
2/23/2018 21:20:48	R1801417-015 10X	Be (313.107 nm)	0.0002 (ppm)	2.90	0.0002 (ppm)	-295.5808
2/23/2018 21:20:48	R1801417-015 10X	Ca (227.547 nm)	102.1517 o (ppm)	0.90	102.1517 (ppm)	7147.4393
2/23/2018 21:20:48	R1801417-015 10X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.5942
2/23/2018 21:20:48	R1801417-015 10X	Co (230.786 nm)	0.0027 (ppm)	4.25	0.0027 (ppm)	22.9760
2/23/2018 21:20:48	R1801417-015 10X	Cr (267.716 nm)	0.0063 (ppm)	0.99	0.0063 (ppm)	299.9448
2/23/2018 21:20:48	R1801417-015 10X	Cu (327.395 nm)	0.0125 (ppm)	1.28	0.0125 (ppm)	904.8101
2/23/2018 21:20:48	R1801417-015 10X	Fe (234.350 nm)	9.3025 (ppm)	0.26	9.3025 (ppm)	104699.3722
2/23/2018 21:20:48	R1801417-015 10X	K (766.491 nm)	0.8326 (ppm)	0.98	0.8326 (ppm)	3060.0644
2/23/2018 21:20:48	R1801417-015 10X	Mg (279.078 nm)	50.1570 (ppm)	0.37	50.1570 (ppm)	103570.5711
2/23/2018 21:20:48	R1801417-015 10X	Mn (257.610 nm)	0.3579 (ppm)	0.25	0.3579 (ppm)	116177.5577
2/23/2018 21:20:48	R1801417-015 10X	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.7735
2/23/2018 21:20:48	R1801417-015 10X	Na (588.995 nm)	0.1428 (ppm)	1.73	0.1428 (ppm)	3126.5432
2/23/2018 21:20:48	R1801417-015 10X	Ni (230.299 nm)	0.0065 (ppm)	5.21	0.0065 (ppm)	22.8360
2/23/2018 21:20:48	R1801417-015 10X	Pb (220.353 nm)	0.0063 (ppm)	14.68	0.0063 (ppm)	20.1308
2/23/2018 21:20:48	R1801417-015 10X	Sb (217.582 nm)	0.0009 (ppm)	83.94	0.0009 (ppm)	-0.0995
2/23/2018 21:20:48	R1801417-015 10X	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-3.0298
2/23/2018 21:20:48	R1801417-015 10X	Sn (189.925 nm)	0.0009 (ppm)	56.79	0.0009 (ppm)	2.1106
2/23/2018 21:20:48	R1801417-015 10X	Sr (216.596 nm)	0.0768 (ppm)	0.37	0.0768 (ppm)	1058.7515
2/23/2018 21:20:48	R1801417-015 10X	Ti (336.122 nm)	0.0573 (ppm)	0.40	0.0573 (ppm)	12351.2926
2/23/2018 21:20:48	R1801417-015 10X	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	19.3808
2/23/2018 21:20:48	R1801417-015 10X	V (292.401 nm)	0.0092 (ppm)	0.60	0.0092 (ppm)	450.0398
2/23/2018 21:20:48	R1801417-015 10X	Y (360.074 nm)	0.96 (Ratio)	0.54	0.96 (Ratio)	951711.45
2/23/2018 21:20:48	R1801417-015 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.54	0.96 (Ratio)	953204.21
2/23/2018 21:20:48	R1801417-015 10X	Zn (213.857 nm)	0.1124 (ppm)	0.36	0.1124 (ppm)	3365.7264
2/23/2018 21:24:08	Continuing Calibration Verification	Ag (328.068 nm)	0.4741 (ppm)	0.25	0.4741 (ppm)	36704.2169

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:24:08	Continuing Calibration Verification	Al (394.401 nm)	9.4692 (ppm)	0.13	9.4692 (ppm)	137057.8992
2/23/2018 21:24:08	Continuing Calibration Verification	As (188.980 nm)	0.9456 (ppm)	0.69	0.9456 (ppm)	882.9239
2/23/2018 21:24:08	Continuing Calibration Verification	B (249.772 nm)	2.4226 (ppm)	0.27	2.4226 (ppm)	73742.1607
2/23/2018 21:24:08	Continuing Calibration Verification	Ba (230.424 nm)	10.1196 (ppm)	0.66	10.1196 (ppm)	353726.9531
2/23/2018 21:24:08	Continuing Calibration Verification	Be (313.107 nm)	0.2526 (ppm)	0.14	0.2526 (ppm)	380256.1653
2/23/2018 21:24:08	Continuing Calibration Verification	Ca (227.547 nm)	23.4531 (ppm)	0.36	23.4531 (ppm)	1646.7390
2/23/2018 21:24:08	Continuing Calibration Verification	Cd (214.439 nm)	0.4875 (ppm)	0.53	0.4875 (ppm)	10466.4331
2/23/2018 21:24:08	Continuing Calibration Verification	Co (230.786 nm)	2.5301 (ppm)	0.32	2.5301 (ppm)	26935.8684
2/23/2018 21:24:08	Continuing Calibration Verification	Cr (267.716 nm)	0.5227 (ppm)	0.45	0.5227 (ppm)	25279.2839
2/23/2018 21:24:08	Continuing Calibration Verification	Cu (327.395 nm)	1.2118 (ppm)	0.19	1.2118 (ppm)	85202.0543
2/23/2018 21:24:08	Continuing Calibration Verification	Fe (234.350 nm)	5.0110 (ppm)	0.40	5.0110 (ppm)	56406.9267
2/23/2018 21:24:08	Continuing Calibration Verification	K (766.491 nm)	24.4433 (ppm)	0.23	24.4433 (ppm)	89920.9105
2/23/2018 21:24:08	Continuing Calibration Verification	Mg (279.078 nm)	24.6066 (ppm)	0.35	24.6066 (ppm)	50808.7210
2/23/2018 21:24:08	Continuing Calibration Verification	Mn (257.610 nm)	0.7613 (ppm)	0.43	0.7613 (ppm)	247135.5488
2/23/2018 21:24:08	Continuing Calibration Verification	Mo (202.032 nm)	2.3939 (ppm)	0.46	2.3939 (ppm)	25071.6494
2/23/2018 21:24:08	Continuing Calibration Verification	Na (588.995 nm)	25.1402 (ppm)	0.41	25.1402 (ppm)	1354577.0840
2/23/2018 21:24:08	Continuing Calibration Verification	Ni (230.299 nm)	2.0214 (ppm)	0.47	2.0214 (ppm)	14400.5193
2/23/2018 21:24:08	Continuing Calibration Verification	Pb (220.353 nm)	0.4896 (ppm)	0.79	0.4896 (ppm)	1122.1381
2/23/2018 21:24:08	Continuing Calibration Verification	Sb (217.582 nm)	4.7535 (ppm)	0.26	4.7535 (ppm)	7563.4982
2/23/2018 21:24:08	Continuing Calibration Verification	Se (196.026 nm)	0.4715 (ppm)	0.57	0.4715 (ppm)	446.6286
2/23/2018 21:24:08	Continuing Calibration Verification	Sn (189.925 nm)	4.9004 (ppm)	0.66	4.9004 (ppm)	6038.4792
2/23/2018 21:24:08	Continuing Calibration Verification	Sr (216.596 nm)	2.5266 (ppm)	0.42	2.5266 (ppm)	34987.2262
2/23/2018 21:24:08	Continuing Calibration Verification	Ti (336.122 nm)	2.4781 (ppm)	0.22	2.4781 (ppm)	555719.8783
2/23/2018 21:24:08	Continuing Calibration Verification	Tl (351.923 nm)	0.9705 (ppm)	0.08	0.9705 (ppm)	2927.1046
2/23/2018 21:24:08	Continuing Calibration Verification	V (292.401 nm)	2.4852 (ppm)	0.36	2.4852 (ppm)	95148.4130
2/23/2018 21:24:08	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	0.59	0.97 (Ratio)	959209.69
2/23/2018 21:24:08	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	0.59	0.97 (Ratio)	960687.57
2/23/2018 21:24:08	Continuing Calibration Verification	Zn (213.857 nm)	0.9771 (ppm)	0.39	0.9771 (ppm)	29488.5250
2/23/2018 21:27:29	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-121.2076
2/23/2018 21:27:29	Continuing Calibration Blank	Al (394.401 nm)	0.0078 (ppm)	6.41	0.0078 (ppm)	178.8033
2/23/2018 21:27:29	Continuing Calibration Blank	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.1669
2/23/2018 21:27:29	Continuing Calibration Blank	B (249.772 nm)	0.0020 (ppm)	11.96	0.0020 (ppm)	149.0473
2/23/2018 21:27:29	Continuing Calibration Blank	Ba (230.424 nm)	0.0047 (ppm)	2.16	0.0047 (ppm)	170.0123
2/23/2018 21:27:29	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	3.20	0.0001 (ppm)	-385.5559
2/23/2018 21:27:29	Continuing Calibration Blank	Ca (227.547 nm)	0.0126 u (ppm)	> 100.00	0.0126 (ppm)	8.3487
2/23/2018 21:27:29	Continuing Calibration Blank	Cd (214.439 nm)	0.0003 (ppm)	46.37	0.0003 (ppm)	21.5867
2/23/2018 21:27:29	Continuing Calibration Blank	Co (230.786 nm)	0.0013 (ppm)	30.04	0.0013 (ppm)	8.0185
2/23/2018 21:27:29	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	42.53	0.0001 (ppm)	2.0845
2/23/2018 21:27:29	Continuing Calibration Blank	Cu (327.395 nm)	0.0005 (ppm)	12.99	0.0005 (ppm)	66.0984
2/23/2018 21:27:29	Continuing Calibration Blank	Fe (234.350 nm)	0.0052 (ppm)	6.40	0.0052 (ppm)	77.5553
2/23/2018 21:27:29	Continuing Calibration Blank	K (766.491 nm)	0.0296 (ppm)	16.75	0.0296 (ppm)	105.7694
2/23/2018 21:27:29	Continuing Calibration Blank	Mg (279.078 nm)	0.0125 (ppm)	7.33	0.0125 (ppm)	21.5264
2/23/2018 21:27:29	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	2.41	0.0004 (ppm)	131.6224
2/23/2018 21:27:29	Continuing Calibration Blank	Mo (202.032 nm)	0.0033 (ppm)	4.84	0.0033 (ppm)	38.6237
2/23/2018 21:27:29	Continuing Calibration Blank	Na (588.995 nm)	0.0109 (ppm)	9.92	0.0109 (ppm)	-4000.4671
2/23/2018 21:27:29	Continuing Calibration Blank	Ni (230.299 nm)	0.0009 (ppm)	37.54	0.0009 (ppm)	-16.9969
2/23/2018 21:27:29	Continuing Calibration Blank	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	3.4393
2/23/2018 21:27:29	Continuing Calibration Blank	Sb (217.582 nm)	0.0036 (ppm)	14.13	0.0036 (ppm)	4.2141
2/23/2018 21:27:29	Continuing Calibration Blank	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-1.3035
2/23/2018 21:27:29	Continuing Calibration Blank	Sn (189.925 nm)	0.0017 (ppm)	21.69	0.0017 (ppm)	3.1817
2/23/2018 21:27:29	Continuing Calibration Blank	Sr (216.596 nm)	0.0014 (ppm)	16.62	0.0014 (ppm)	14.8323

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:27:29	Continuing Calibration Blank	Ti (336.122 nm)	0.0019 (ppm)	2.24	0.0019 (ppm)	-103.3659
2/23/2018 21:27:29	Continuing Calibration Blank	Ti (351.923 nm)	0.0018 (ppm)	12.90	0.0018 (ppm)	23.5687
2/23/2018 21:27:29	Continuing Calibration Blank	V (292.401 nm)	0.0011 (ppm)	5.99	0.0011 (ppm)	138.5972
2/23/2018 21:27:29	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.60	1.02 (Ratio)	1006780.37
2/23/2018 21:27:29	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.60	1.02 (Ratio)	1008281.40
2/23/2018 21:27:29	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	19.87	0.0004 (ppm)	-17.6341
2/23/2018 21:30:50	Contract Required Detection Limit	Ag (328.068 nm)	0.0094 (ppm)	2.12	0.0094 (ppm)	616.3542
2/23/2018 21:30:50	Contract Required Detection Limit	Al (394.401 nm)	0.1772 (ppm)	2.09	0.1772 (ppm)	2629.8146
2/23/2018 21:30:50	Contract Required Detection Limit	As (188.980 nm)	0.0188 (ppm)	7.06	0.0188 (ppm)	14.9244
2/23/2018 21:30:50	Contract Required Detection Limit	B (249.772 nm)	0.1941 (ppm)	2.05	0.1941 (ppm)	5987.7486
2/23/2018 21:30:50	Contract Required Detection Limit	Ba (230.424 nm)	0.2082 (ppm)	2.00	0.2082 (ppm)	7281.2105
2/23/2018 21:30:50	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	1.90	0.0049 (ppm)	6864.2288
2/23/2018 21:30:50	Contract Required Detection Limit	Ca (227.547 nm)	0.9154 (ppm)	5.09	0.9154 (ppm)	71.4445
2/23/2018 21:30:50	Contract Required Detection Limit	Cd (214.439 nm)	0.0097 (ppm)	2.42	0.0097 (ppm)	224.5573
2/23/2018 21:30:50	Contract Required Detection Limit	Co (230.786 nm)	0.0494 (ppm)	2.49	0.0494 (ppm)	520.8448
2/23/2018 21:30:50	Contract Required Detection Limit	Cr (267.716 nm)	0.0101 (ppm)	2.15	0.0101 (ppm)	482.7387
2/23/2018 21:30:50	Contract Required Detection Limit	Cu (327.395 nm)	0.0243 (ppm)	2.36	0.0243 (ppm)	1734.2903
2/23/2018 21:30:50	Contract Required Detection Limit	Fe (234.350 nm)	0.1050 (ppm)	2.02	0.1050 (ppm)	1200.2332
2/23/2018 21:30:50	Contract Required Detection Limit	K (766.491 nm)	0.9296 (ppm)	1.72	0.9296 (ppm)	3416.8442
2/23/2018 21:30:50	Contract Required Detection Limit	Mg (279.078 nm)	1.0092 (ppm)	2.12	1.0092 (ppm)	2079.5687
2/23/2018 21:30:50	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	1.99	0.0154 (ppm)	4992.0679
2/23/2018 21:30:50	Contract Required Detection Limit	Mo (202.032 nm)	0.0247 (ppm)	2.14	0.0247 (ppm)	261.9758
2/23/2018 21:30:50	Contract Required Detection Limit	Na (588.995 nm)	1.0314 (ppm)	1.64	1.0314 (ppm)	51167.8411
2/23/2018 21:30:50	Contract Required Detection Limit	Ni (230.299 nm)	0.0416 (ppm)	2.88	0.0416 (ppm)	273.7457
2/23/2018 21:30:50	Contract Required Detection Limit	Pb (220.353 nm)	0.0084 (ppm)	9.80	0.0084 (ppm)	24.7923
2/23/2018 21:30:50	Contract Required Detection Limit	Sb (217.582 nm)	0.0599 (ppm)	3.82	0.0599 (ppm)	93.9124
2/23/2018 21:30:50	Contract Required Detection Limit	Se (196.026 nm)	0.0120 (ppm)	13.10	0.0120 (ppm)	9.4822
2/23/2018 21:30:50	Contract Required Detection Limit	Sn (189.925 nm)	0.4914 (ppm)	1.99	0.4914 (ppm)	606.4931
2/23/2018 21:30:50	Contract Required Detection Limit	Sr (216.596 nm)	0.1014 (ppm)	2.77	0.1014 (ppm)	1399.7827
2/23/2018 21:30:50	Contract Required Detection Limit	Ti (336.122 nm)	0.0500 (ppm)	1.81	0.0500 (ppm)	10700.2834
2/23/2018 21:30:50	Contract Required Detection Limit	Ti (351.923 nm) 78%	0.0155 R (ppm)	11.77	0.0155 (ppm)	64.7618 R
2/23/2018 21:30:50	Contract Required Detection Limit	V (292.401 nm)	0.0482 (ppm)	1.96	0.0482 (ppm)	1942.1648
2/23/2018 21:30:50	Contract Required Detection Limit	Y (360.074 nm)	1.02 (Ratio)	1.30	1.02 (Ratio)	1009371.15
2/23/2018 21:30:50	Contract Required Detection Limit	Y_R (360.074 nm)	1.02 (Ratio)	1.30	1.02 (Ratio)	1010905.13
2/23/2018 21:30:50	Contract Required Detection Limit	Zn (213.857 nm)	0.0197 (ppm)	3.67	0.0197 (ppm)	564.1397
2/23/2018 21:34:10	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u (ppm)	37.56	-0.0002 (ppm)	-127.7613
2/23/2018 21:34:10	Interference Check Solution A	Al (394.401 nm)	265.3312 o (ppm)	0.21	265.3312 (ppm)	3838637.4652
2/23/2018 21:34:10	Interference Check Solution A	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-2.0775
2/23/2018 21:34:10	Interference Check Solution A	B (249.772 nm)	0.0371 (ppm)	0.18	0.0371 (ppm)	1216.4560
2/23/2018 21:34:10	Interference Check Solution A	Ba (230.424 nm)	0.0006 (ppm)	14.97	0.0006 (ppm)	25.1305
2/23/2018 21:34:10	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	16.66	-0.0001 (ppm)	-658.4865
2/23/2018 21:34:10	Interference Check Solution A	Ca (227.547 nm)	265.1472 o (ppm)	0.18	265.1472 (ppm)	18540.1419
2/23/2018 21:34:10	Interference Check Solution A	Cd (214.439 nm)	-0.0008 u (ppm)	25.92	-0.0008 (ppm)	-2.6153
2/23/2018 21:34:10	Interference Check Solution A	Co (230.786 nm)	-0.0022 u (ppm)	11.73	-0.0022 (ppm)	-28.8749
2/23/2018 21:34:10	Interference Check Solution A	Cr (267.716 nm)	-0.0001 u (ppm)	37.26	-0.0001 (ppm)	-8.9243
2/23/2018 21:34:10	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	8.94	0.0006 (ppm)	71.1927
2/23/2018 21:34:10	Interference Check Solution A	Fe (234.350 nm)	91.5468 o (ppm)	0.49	91.5468 (ppm)	1030182.2401
2/23/2018 21:34:10	Interference Check Solution A	K (766.491 nm)	0.0097 (ppm)	91.22	0.0097 (ppm)	32.6806
2/23/2018 21:34:10	Interference Check Solution A	Mg (279.078 nm)	261.8839 o (ppm)	0.28	261.8839 (ppm)	540789.7104
2/23/2018 21:34:10	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.16	0.0016 (ppm)	530.6397
2/23/2018 21:34:10	Interference Check Solution A	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	4.1445

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:34:10	Interference Check Solution A	Na (588.995 nm)	-0.0111 u (ppm)	7.26	-0.0111 (ppm)	-5193.7424
2/23/2018 21:34:10	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	10.90	-0.0024 (ppm)	-40.0527
2/23/2018 21:34:10	Interference Check Solution A	Pb (220.353 nm)	-0.0028 u (ppm)	16.25	-0.0028 (ppm)	-0.6966
2/23/2018 21:34:10	Interference Check Solution A	Sb (217.582 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.9433
2/23/2018 21:34:10	Interference Check Solution A	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.6236
2/23/2018 21:34:10	Interference Check Solution A	Sn (189.925 nm)	-0.0020 u (ppm)	51.24	-0.0020 (ppm)	-1.3834
2/23/2018 21:34:10	Interference Check Solution A	Sr (216.596 nm)	0.0207 (ppm)	4.01	0.0207 (ppm)	282.8441
2/23/2018 21:34:10	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	1.62	0.0020 (ppm)	-80.2208
2/23/2018 21:34:10	Interference Check Solution A	Tl (351.923 nm)	0.0056 (ppm)	26.19	0.0056 (ppm)	35.0442
2/23/2018 21:34:10	Interference Check Solution A	V (292.401 nm)	0.0032 K (ppm)	6.62	0.0032 (ppm)	220.2532 K
2/23/2018 21:34:10	Interference Check Solution A	Y (360.074 nm)	0.88 (Ratio)	0.68	0.88 (Ratio)	875014.64
2/23/2018 21:34:10	Interference Check Solution A	Y_R (360.074 nm)	0.88 (Ratio)	0.68	0.88 (Ratio)	876499.91
2/23/2018 21:34:10	Interference Check Solution A	Zn (213.857 nm)	0.0124 K (ppm)	1.78	0.0124 (ppm)	344.9789 K
2/23/2018 21:37:31	Interference Check Solution AB	Ag (328.068 nm)	0.2141 (ppm)	0.32	0.2141 (ppm)	16509.0536
2/23/2018 21:37:31	Interference Check Solution AB	Al (394.401 nm)	264.5700 o (ppm)	0.17	264.5700 (ppm)	3827625.6393
2/23/2018 21:37:31	Interference Check Solution AB	As (188.980 nm)	0.1006 (ppm)	3.18	0.1006 (ppm)	91.5353
2/23/2018 21:37:31	Interference Check Solution AB	B (249.772 nm)	0.0382 (ppm)	1.20	0.0382 (ppm)	1249.9378
2/23/2018 21:37:31	Interference Check Solution AB	Ba (230.424 nm)	0.5191 (ppm)	0.75	0.5191 (ppm)	18150.2301
2/23/2018 21:37:31	Interference Check Solution AB	Be (313.107 nm)	0.5085 (ppm)	0.42	0.5085 (ppm)	765968.8980
2/23/2018 21:37:31	Interference Check Solution AB	Ca (227.547 nm)	264.4970 o (ppm)	0.02	264.4970 (ppm)	18494.6910
2/23/2018 21:37:31	Interference Check Solution AB	Cd (214.439 nm)	0.9432 (ppm)	0.87	0.9432 (ppm)	20236.9169
2/23/2018 21:37:31	Interference Check Solution AB	Co (230.786 nm)	0.4852 (ppm)	0.64	0.4852 (ppm)	5160.5669
2/23/2018 21:37:31	Interference Check Solution AB	Cr (267.716 nm)	0.5088 (ppm)	0.56	0.5088 (ppm)	24606.9767
2/23/2018 21:37:31	Interference Check Solution AB	Cu (327.395 nm)	0.5357 (ppm)	0.17	0.5357 (ppm)	37683.9952
2/23/2018 21:37:31	Interference Check Solution AB	Fe (234.350 nm)	91.0496 o (ppm)	0.70	91.0496 (ppm)	1024587.5956
2/23/2018 21:37:31	Interference Check Solution AB	K (766.491 nm)	0.0034 (ppm)	64.15	0.0034 (ppm)	9.2533
2/23/2018 21:37:31	Interference Check Solution AB	Mg (279.078 nm)	261.0180 o (ppm)	0.35	261.0180 (ppm)	539001.7453
2/23/2018 21:37:31	Interference Check Solution AB	Mn (257.610 nm)	0.4987 (ppm)	0.44	0.4987 (ppm)	161893.1787
2/23/2018 21:37:31	Interference Check Solution AB	Mo (202.032 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	7.5733
2/23/2018 21:37:31	Interference Check Solution AB	Na (588.995 nm)	-0.0065 u (ppm)	19.98	-0.0065 (ppm)	-4945.9091
2/23/2018 21:37:31	Interference Check Solution AB	Ni (230.299 nm)	0.9510 (ppm)	0.74	0.9510 (ppm)	6762.8074
2/23/2018 21:37:31	Interference Check Solution AB	Pb (220.353 nm)	0.0467 (ppm)	1.80	0.0467 (ppm)	112.2515
2/23/2018 21:37:31	Interference Check Solution AB	Sb (217.582 nm)	0.6072 (ppm)	0.25	0.6072 (ppm)	964.8390
2/23/2018 21:37:31	Interference Check Solution AB	Se (196.026 nm)	0.0487 (ppm)	4.40	0.0487 (ppm)	44.4080
2/23/2018 21:37:31	Interference Check Solution AB	Sn (189.925 nm)	-0.0031 u (ppm)	4.08	-0.0031 (ppm)	-2.7186
2/23/2018 21:37:31	Interference Check Solution AB	Sr (216.596 nm)	0.0205 (ppm)	0.22	0.0205 (ppm)	279.2388
2/23/2018 21:37:31	Interference Check Solution AB	Ti (336.122 nm)	0.0018 (ppm)	5.66	0.0018 (ppm)	-105.8089
2/23/2018 21:37:31	Interference Check Solution AB	Tl (351.923 nm)	0.1164 (ppm)	2.29	0.1164 (ppm)	367.1761
2/23/2018 21:37:31	Interference Check Solution AB	V (292.401 nm)	0.5000 (ppm)	0.28	0.5000 (ppm)	19222.7808
2/23/2018 21:37:31	Interference Check Solution AB	Y (360.074 nm)	0.88 (Ratio)	0.45	0.88 (Ratio)	875424.21
2/23/2018 21:37:31	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	0.45	0.89 (Ratio)	876905.73
2/23/2018 21:37:31	Interference Check Solution AB	Zn (213.857 nm)	1.0177 (ppm)	0.57	1.0177 (ppm)	30713.7781
2/23/2018 21:40:53	Continuing Calibration Verification1	Ag (328.068 nm)	0.4758 (ppm)	0.42	0.4758 (ppm)	36835.0636
2/23/2018 21:40:53	Continuing Calibration Verification1	Al (394.401 nm)	9.4906 (ppm)	0.10	9.4906 (ppm)	137367.7969
2/23/2018 21:40:53	Continuing Calibration Verification1	As (188.980 nm)	0.9486 (ppm)	0.62	0.9486 (ppm)	885.7576
2/23/2018 21:40:53	Continuing Calibration Verification1	B (249.772 nm)	2.4305 (ppm)	0.45	2.4305 (ppm)	73982.3323
2/23/2018 21:40:53	Continuing Calibration Verification1	Ba (230.424 nm)	10.1710 (ppm)	0.65	10.1710 (ppm)	355524.0371
2/23/2018 21:40:53	Continuing Calibration Verification1	Be (313.107 nm)	0.2534 (ppm)	0.37	0.2534 (ppm)	381407.9994
2/23/2018 21:40:53	Continuing Calibration Verification1	Ca (227.547 nm)	23.4571 (ppm)	0.08	23.4571 (ppm)	1647.0141
2/23/2018 21:40:53	Continuing Calibration Verification1	Cd (214.439 nm)	0.4903 (ppm)	0.79	0.4903 (ppm)	10527.7539
2/23/2018 21:40:53	Continuing Calibration Verification1	Co (230.786 nm)	2.5412 (ppm)	0.63	2.5412 (ppm)	27053.7883

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:40:53	Continuing Calibration Verification1	Cr (267.716 nm)	0.5250 (ppm)	0.63	0.5250 (ppm)	25392.3015
2/23/2018 21:40:53	Continuing Calibration Verification1	Cu (327.395 nm)	1.2154 (ppm)	0.12	1.2154 (ppm)	85457.4924
2/23/2018 21:40:53	Continuing Calibration Verification1	Fe (234.350 nm)	5.0235 (ppm)	0.57	5.0235 (ppm)	56547.5133
2/23/2018 21:40:53	Continuing Calibration Verification1	K (766.491 nm)	24.4994 (ppm)	0.32	24.4994 (ppm)	90127.0142
2/23/2018 21:40:53	Continuing Calibration Verification1	Mg (279.078 nm)	24.7187 (ppm)	0.52	24.7187 (ppm)	51040.1912
2/23/2018 21:40:53	Continuing Calibration Verification1	Mn (257.610 nm)	0.7635 (ppm)	0.57	0.7635 (ppm)	247870.1922
2/23/2018 21:40:53	Continuing Calibration Verification1	Mo (202.032 nm)	2.4003 (ppm)	0.57	2.4003 (ppm)	25138.8830
2/23/2018 21:40:53	Continuing Calibration Verification1	Na (588.995 nm)	25.2254 (ppm)	0.36	25.2254 (ppm)	1359186.0206
2/23/2018 21:40:53	Continuing Calibration Verification1	Ni (230.299 nm)	2.0292 (ppm)	0.45	2.0292 (ppm)	14455.9414
2/23/2018 21:40:53	Continuing Calibration Verification1	Pb (220.353 nm)	0.4902 (ppm)	0.79	0.4902 (ppm)	1123.6258
2/23/2018 21:40:53	Continuing Calibration Verification1	Sb (217.582 nm)	4.7828 (ppm)	0.57	4.7828 (ppm)	7610.1034
2/23/2018 21:40:53	Continuing Calibration Verification1	Se (196.026 nm)	0.4757 (ppm)	0.44	0.4757 (ppm)	450.6276
2/23/2018 21:40:53	Continuing Calibration Verification1	Sn (189.925 nm)	4.9246 (ppm)	0.81	4.9246 (ppm)	6068.2188
2/23/2018 21:40:53	Continuing Calibration Verification1	Sr (216.596 nm)	2.5404 (ppm)	0.54	2.5404 (ppm)	35177.6403
2/23/2018 21:40:53	Continuing Calibration Verification1	Ti (336.122 nm)	2.4836 (ppm)	0.21	2.4836 (ppm)	556968.0644
2/23/2018 21:40:53	Continuing Calibration Verification1	Tl (351.923 nm)	0.9766 (ppm)	0.20	0.9766 (ppm)	2945.3454
2/23/2018 21:40:53	Continuing Calibration Verification1	V (292.401 nm)	2.4946 (ppm)	0.44	2.4946 (ppm)	95509.3973
2/23/2018 21:40:53	Continuing Calibration Verification1	Y (360.074 nm)	0.97 (Ratio)	0.54	0.97 (Ratio)	956039.28
2/23/2018 21:40:53	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.54	0.97 (Ratio)	957581.84
2/23/2018 21:40:53	Continuing Calibration Verification1	Zn (213.857 nm)	0.9820 (ppm)	0.52	0.9820 (ppm)	29635.2113
2/23/2018 21:44:13	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u (ppm)	38.36	-0.0002 (ppm)	-129.9403
2/23/2018 21:44:13	Continuing Calibration Blank1	Al (394.401 nm)	0.0030 (ppm)	5.58	0.0030 (ppm)	109.3822
2/23/2018 21:44:13	Continuing Calibration Blank1	As (188.980 nm)	0.0013 (ppm)	32.50	0.0013 (ppm)	-1.3976
2/23/2018 21:44:13	Continuing Calibration Blank1	B (249.772 nm)	0.0014 (ppm)	22.21	0.0014 (ppm)	129.4186
2/23/2018 21:44:13	Continuing Calibration Blank1	Ba (230.424 nm)	0.0008 (ppm)	7.18	0.0008 (ppm)	32.2436
2/23/2018 21:44:13	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	6.96	0.0000 (ppm)	-515.8109
2/23/2018 21:44:13	Continuing Calibration Blank1	Ca (227.547 nm)	0.0151 u (ppm)	> 100.00	0.0151 (ppm)	8.5184
2/23/2018 21:44:13	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	76.27	0.0001 (ppm)	17.9085
2/23/2018 21:44:13	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-4.6864
2/23/2018 21:44:13	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.7691
2/23/2018 21:44:13	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	32.3675
2/23/2018 21:44:13	Continuing Calibration Blank1	Fe (234.350 nm)	0.0014 (ppm)	7.61	0.0014 (ppm)	35.0993
2/23/2018 21:44:13	Continuing Calibration Blank1	K (766.491 nm)	0.0187 (ppm)	34.70	0.0187 (ppm)	65.8305
2/23/2018 21:44:13	Continuing Calibration Blank1	Mg (279.078 nm)	0.0016 (ppm)	52.33	0.0016 (ppm)	-1.0676
2/23/2018 21:44:13	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001 (ppm)	15.22	0.0001 (ppm)	21.7001
2/23/2018 21:44:13	Continuing Calibration Blank1	Mo (202.032 nm)	0.0021 (ppm)	10.40	0.0021 (ppm)	25.6352
2/23/2018 21:44:13	Continuing Calibration Blank1	Na (588.995 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-4607.5998
2/23/2018 21:44:13	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-23.6978
2/23/2018 21:44:13	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.4657
2/23/2018 21:44:13	Continuing Calibration Blank1	Sb (217.582 nm)	0.0042 (ppm)	16.96	0.0042 (ppm)	5.1741
2/23/2018 21:44:13	Continuing Calibration Blank1	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-1.4298
2/23/2018 21:44:13	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	0.3012
2/23/2018 21:44:13	Continuing Calibration Blank1	Sr (216.596 nm)	0.0004 (ppm)	22.02	0.0004 (ppm)	0.5500
2/23/2018 21:44:13	Continuing Calibration Blank1	Ti (336.122 nm)	0.0009 (ppm)	4.38	0.0009 (ppm)	-326.5697
2/23/2018 21:44:13	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	15.8140
2/23/2018 21:44:13	Continuing Calibration Blank1	V (292.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	104.4146
2/23/2018 21:44:13	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	1005810.66
2/23/2018 21:44:13	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	1007348.29
2/23/2018 21:44:13	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001 (ppm)	12.10	0.0001 (ppm)	-27.7538
2/23/2018 21:47:34	PBW-308802	Ag (328.068 nm)	-0.0002 u (ppm)	15.31	-0.0002 (ppm)	-131.6119
2/23/2018 21:47:34	PBW-308802	Al (394.401 nm)	0.0056 (ppm)	2.15	0.0056 (ppm)	147.5331

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:47:34	PBW-308802	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.6341
2/23/2018 21:47:34	PBW-308802	B (249.772 nm)	0.0014 (ppm)	1.02	0.0014 (ppm)	130.8155
2/23/2018 21:47:34	PBW-308802	Ba (230.424 nm)	0.0002 (ppm)	46.09	0.0002 (ppm)	10.5470
2/23/2018 21:47:34	PBW-308802	Be (313.107 nm)	0.0000 (ppm)	22.92	0.0000 (ppm)	-548.2393
2/23/2018 21:47:34	PBW-308802	Ca (227.547 nm)	-0.0050 u (ppm)	> 100.00	-0.0050 (ppm)	7.1122
2/23/2018 21:47:34	PBW-308802	Cd (214.439 nm)	-0.0003 u (ppm)	21.41	-0.0003 (ppm)	10.0448
2/23/2018 21:47:34	PBW-308802	Co (230.786 nm)	0.0003 (ppm)	18.03	0.0003 (ppm)	-2.5415
2/23/2018 21:47:34	PBW-308802	Cr (267.716 nm)	-0.0002 u (ppm)	10.71	-0.0002 (ppm)	-15.7571
2/23/2018 21:47:34	PBW-308802	Cu (327.395 nm)	0.0002 (ppm)	43.77	0.0002 (ppm)	40.9309
2/23/2018 21:47:34	PBW-308802	Fe (234.350 nm)	0.0035 (ppm)	4.15	0.0035 (ppm)	58.3023
2/23/2018 21:47:34	PBW-308802	K (766.491 nm)	0.1284 (ppm)	1.44	0.1284 (ppm)	469.3237
2/23/2018 21:47:34	PBW-308802	Mg (279.078 nm)	0.0044 (ppm)	31.57	0.0044 (ppm)	4.7566
2/23/2018 21:47:34	PBW-308802	Mn (257.610 nm)	0.0005 (ppm)	0.84	0.0005 (ppm)	153.5551
2/23/2018 21:47:34	PBW-308802	Mo (202.032 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	7.4591
2/23/2018 21:47:34	PBW-308802	Na (588.995 nm)	0.0521 (ppm)	3.15	0.0521 (ppm)	-1777.2079
2/23/2018 21:47:34	PBW-308802	Ni (230.299 nm)	0.0007 (ppm)	31.26	0.0007 (ppm)	-18.0217
2/23/2018 21:47:34	PBW-308802	Pb (220.353 nm)	-0.0014 u (ppm)	27.06	-0.0014 (ppm)	2.6172
2/23/2018 21:47:34	PBW-308802	Sb (217.582 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	0.6847
2/23/2018 21:47:34	PBW-308802	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-0.5656
2/23/2018 21:47:34	PBW-308802	Sn (189.925 nm)	-0.0015 u (ppm)	72.75	-0.0015 (ppm)	-0.7552
2/23/2018 21:47:34	PBW-308802	Sr (216.596 nm)	0.0004 (ppm)	32.47	0.0004 (ppm)	0.4331
2/23/2018 21:47:34	PBW-308802	Ti (336.122 nm)	0.0012 (ppm)	5.78	0.0012 (ppm)	-247.8100
2/23/2018 21:47:34	PBW-308802	Tl (351.923 nm)	-0.0027 u (ppm)	60.60	-0.0027 (ppm)	10.0475
2/23/2018 21:47:34	PBW-308802	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	95.4666
2/23/2018 21:47:34	PBW-308802	Y (360.074 nm)	1.03 (Ratio)	0.35	1.03 (Ratio)	1020216.49
2/23/2018 21:47:34	PBW-308802	Y_R (360.074 nm)	1.03 (Ratio)	0.35	1.03 (Ratio)	1021803.08
2/23/2018 21:47:34	PBW-308802	Zn (213.857 nm)	0.0051 (ppm)	1.31	0.0051 (ppm)	122.7864
2/23/2018 21:50:55	LCSW-308802	Ag (328.068 nm)	0.0492 (ppm)	0.32	0.0492 (ppm)	3705.9618
2/23/2018 21:50:55	LCSW-308802	Al (394.401 nm)	1.8532 (ppm)	0.12	1.8532 (ppm)	26876.9901
2/23/2018 21:50:55	LCSW-308802	As (188.980 nm)	0.0363 (ppm)	7.04	0.0363 (ppm)	31.3478
2/23/2018 21:50:55	LCSW-308802	B (249.772 nm)	0.9734 (ppm)	0.23	0.9734 (ppm)	29680.7033
2/23/2018 21:50:55	LCSW-308802	Ba (230.424 nm)	2.0767 (ppm)	0.47	2.0767 (ppm)	72592.2421
2/23/2018 21:50:55	LCSW-308802	Be (313.107 nm)	0.0501 (ppm)	0.28	0.0501 (ppm)	74882.5799
2/23/2018 21:50:55	LCSW-308802	Ca (227.547 nm)	1.8691 (ppm)	0.92	1.8691 (ppm)	138.1103
2/23/2018 21:50:55	LCSW-308802	Cd (214.439 nm)	0.0505 (ppm)	0.69	0.0505 (ppm)	1097.4679
2/23/2018 21:50:55	LCSW-308802	Co (230.786 nm)	0.5102 (ppm)	0.52	0.5102 (ppm)	5427.5309
2/23/2018 21:50:55	LCSW-308802	Cr (267.716 nm)	0.2083 (ppm)	0.46	0.2083 (ppm)	10071.9917
2/23/2018 21:50:55	LCSW-308802	Cu (327.395 nm)	0.2450 (ppm)	0.11	0.2450 (ppm)	17249.8851
2/23/2018 21:50:55	LCSW-308802	Fe (234.350 nm)	1.0131 (ppm)	0.40	1.0131 (ppm)	11419.2695
2/23/2018 21:50:55	LCSW-308802	K (766.491 nm)	19.1927 (ppm)	0.50	19.1927 (ppm)	70604.5739
2/23/2018 21:50:55	LCSW-308802	Mg (279.078 nm)	1.9872 (ppm)	0.20	1.9872 (ppm)	4099.2194
2/23/2018 21:50:55	LCSW-308802	Mn (257.610 nm)	0.5085 (ppm)	0.38	0.5085 (ppm)	165060.0242
2/23/2018 21:50:55	LCSW-308802	Mo (202.032 nm)	0.4905 (ppm)	0.37	0.4905 (ppm)	5140.0739
2/23/2018 21:50:55	LCSW-308802	Na (588.995 nm)	19.9010 (ppm)	0.62	19.9010 (ppm)	1071329.3519
2/23/2018 21:50:55	LCSW-308802	Ni (230.299 nm)	0.4991 (ppm)	0.42	0.4991 (ppm)	3538.3928
2/23/2018 21:50:55	LCSW-308802	Pb (220.353 nm)	0.5094 (ppm)	0.85	0.5094 (ppm)	1167.4125
2/23/2018 21:50:55	LCSW-308802	Sb (217.582 nm)	0.4636 (ppm)	0.18	0.4636 (ppm)	736.3080
2/23/2018 21:50:55	LCSW-308802	Se (196.026 nm)	1.0010 (ppm)	0.05	1.0010 (ppm)	950.3583
2/23/2018 21:50:55	LCSW-308802	Sn (189.925 nm)	4.9272 (ppm)	0.73	4.9272 (ppm)	6071.3858
2/23/2018 21:50:55	LCSW-308802	Sr (216.596 nm)	2.0416 (ppm)	0.78	2.0416 (ppm)	28269.6276
2/23/2018 21:50:55	LCSW-308802	Ti (336.122 nm)	0.4952 (ppm)	0.10	0.4952 (ppm)	110641.6241

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:50:55	LCSW-308802	Tl (351.923 nm)	1.8664 (ppm)	0.09	1.8664 (ppm)	5612.2538
2/23/2018 21:50:55	LCSW-308802	V (292.401 nm)	0.4940 (ppm)	0.20	0.4940 (ppm)	18993.8462
2/23/2018 21:50:55	LCSW-308802	Y (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	982204.65
2/23/2018 21:50:55	LCSW-308802	Y_R (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	983803.42
2/23/2018 21:50:55	LCSW-308802	Zn (213.857 nm)	0.4962 (ppm)	0.35	0.4962 (ppm)	14958.6136
2/23/2018 21:54:15	R1801196-001	Ag (328.068 nm)	-0.0004 u (ppm)	11.96	-0.0004 (ppm)	-146.5560
2/23/2018 21:54:15	R1801196-001	Al (394.401 nm)	0.0584 (ppm)	6.91	0.0584 (ppm)	910.8325
2/23/2018 21:54:15	R1801196-001	As (188.980 nm)	0.0042 (ppm)	53.12	0.0042 (ppm)	1.3368
2/23/2018 21:54:15	R1801196-001	B (249.772 nm)	0.0462 (ppm)	0.24	0.0462 (ppm)	1492.5996
2/23/2018 21:54:15	R1801196-001	Ba (230.424 nm)	1.0975 (ppm)	0.36	1.0975 (ppm)	38365.3672
2/23/2018 21:54:15	R1801196-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-580.0236
2/23/2018 21:54:15	R1801196-001	Ca (227.547 nm)	2767.5354 o (ppm)	0.13	2767.5354 (ppm)	193446.5646
2/23/2018 21:54:15	R1801196-001	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.5547
2/23/2018 21:54:15	R1801196-001	Co (230.786 nm)	0.0034 (ppm)	3.96	0.0034 (ppm)	30.5074
2/23/2018 21:54:15	R1801196-001	Cr (267.716 nm)	-0.0011 u (ppm)	10.70	-0.0011 (ppm)	-58.1965
2/23/2018 21:54:15	R1801196-001	Cu (327.395 nm)	0.0008 (ppm)	21.64	0.0008 (ppm)	84.3806
2/23/2018 21:54:15	R1801196-001	Fe (234.350 nm)	2.3072 (ppm)	0.49	2.3072 (ppm)	25981.9985
2/23/2018 21:54:15	R1801196-001	K (766.491 nm)	71.4025 o (ppm)	0.48	71.4025 (ppm)	262677.6228
2/23/2018 21:54:15	R1801196-001	Mg (279.078 nm)	52.9813 (ppm)	0.46	52.9813 (ppm)	109402.8832
2/23/2018 21:54:15	R1801196-001	Mn (257.610 nm)	2.4414 o (ppm)	0.26	2.4414 (ppm)	792539.4618
2/23/2018 21:54:15	R1801196-001	Mo (202.032 nm)	0.0024 (ppm)	21.34	0.0024 (ppm)	28.7923
2/23/2018 21:54:15	R1801196-001	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 21:54:15	R1801196-001	Ni (230.299 nm)	-0.0059 u (ppm)	22.57	-0.0059 (ppm)	-65.6237
2/23/2018 21:54:15	R1801196-001	Pb (220.353 nm)	-0.0008 u (ppm)	84.87	-0.0008 (ppm)	3.8305
2/23/2018 21:54:15	R1801196-001	Sb (217.582 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	1.1308
2/23/2018 21:54:15	R1801196-001	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.5768
2/23/2018 21:54:15	R1801196-001	Sn (189.925 nm)	-0.0048 u (ppm)	33.68	-0.0048 (ppm)	-4.8509
2/23/2018 21:54:15	R1801196-001	Sr (216.596 nm)	14.4009 o (ppm)	0.51	14.4009 (ppm)	199435.1866
2/23/2018 21:54:15	R1801196-001	Ti (336.122 nm)	0.0152 (ppm)	0.61	0.0152 (ppm)	2892.1676
2/23/2018 21:54:15	R1801196-001	Tl (351.923 nm)	0.1160 (ppm)	3.08	0.1160 (ppm)	365.7992
2/23/2018 21:54:15	R1801196-001	V (292.401 nm)	0.0006 (ppm)	39.37	0.0006 (ppm)	120.3263
2/23/2018 21:54:15	R1801196-001	Y (360.074 nm)	0.72 (Ratio)	0.64	0.72 (Ratio)	709789.76
2/23/2018 21:54:15	R1801196-001	Y_R (360.074 nm)	0.72 (Ratio)	0.64	0.72 (Ratio)	711099.75
2/23/2018 21:54:15	R1801196-001	Zn (213.857 nm)	0.0030 (ppm)	3.86	0.0030 (ppm)	59.3630
2/23/2018 21:57:36	R1801196-001S	Ag (328.068 nm)	0.0617 (ppm)	0.65	0.0617 (ppm)	4676.5221
2/23/2018 21:57:36	R1801196-001S	Al (394.401 nm)	2.6716 (ppm)	0.26	2.6716 (ppm)	38716.7798
2/23/2018 21:57:36	R1801196-001S	As (188.980 nm)	0.0492 (ppm)	18.81	0.0492 (ppm)	43.4195
2/23/2018 21:57:36	R1801196-001S	B (249.772 nm)	1.1648 (ppm)	0.12	1.1648 (ppm)	35499.6106
2/23/2018 21:57:36	R1801196-001S	Ba (230.424 nm)	2.9858 (ppm)	0.29	2.9858 (ppm)	104371.1380
2/23/2018 21:57:36	R1801196-001S	Be (313.107 nm)	0.0451 (ppm)	0.14	0.0451 (ppm)	67492.3084
2/23/2018 21:57:36	R1801196-001S	Ca (227.547 nm)	2799.7878 o (ppm)	0.21	2799.7878 (ppm)	195700.8736
2/23/2018 21:57:36	R1801196-001S	Cd (214.439 nm)	0.0431 (ppm)	0.71	0.0431 (ppm)	939.0597
2/23/2018 21:57:36	R1801196-001S	Co (230.786 nm)	0.4470 (ppm)	0.41	0.4470 (ppm)	4754.0927
2/23/2018 21:57:36	R1801196-001S	Cr (267.716 nm)	0.1862 (ppm)	0.12	0.1862 (ppm)	9001.2588
2/23/2018 21:57:36	R1801196-001S	Cu (327.395 nm)	0.2966 (ppm)	0.10	0.2966 (ppm)	20874.5507
2/23/2018 21:57:36	R1801196-001S	Fe (234.350 nm)	3.1487 (ppm)	0.37	3.1487 (ppm)	35451.2881
2/23/2018 21:57:36	R1801196-001S	K (766.491 nm)	101.8936 o (ppm)	0.59	101.8936 (ppm)	374850.5962
2/23/2018 21:57:36	R1801196-001S	Mg (279.078 nm)	54.9765 o (ppm)	0.34	54.9765 (ppm)	113523.0226
2/23/2018 21:57:36	R1801196-001S	Mn (257.610 nm)	2.8959 o (ppm)	0.17	2.8959 (ppm)	940093.1041
2/23/2018 21:57:36	R1801196-001S	Mo (202.032 nm)	0.4621 (ppm)	0.27	0.4621 (ppm)	4842.4700
2/23/2018 21:57:36	R1801196-001S	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 21:57:36	R1801196-001S	Ni (230.299 nm)	0.4231 (ppm)	0.52	0.4231 (ppm)	2995.5919
2/23/2018 21:57:36	R1801196-001S	Pb (220.353 nm)	0.4479 (ppm)	0.98	0.4479 (ppm)	1027.1181
2/23/2018 21:57:36	R1801196-001S	Sb (217.582 nm)	0.5271 (ppm)	0.35	0.5271 (ppm)	837.4277
2/23/2018 21:57:36	R1801196-001S	Se (196.026 nm)	1.1293 o (ppm)	0.55	1.1293 (ppm)	1072.5023
2/23/2018 21:57:36	R1801196-001S	Sn (189.925 nm)	4.4148 (ppm)	0.51	4.4148 (ppm)	5440.2157
2/23/2018 21:57:36	R1801196-001S	Sr (216.596 nm)	16.0262 o (ppm)	0.87	16.0262 (ppm)	221943.6173
2/23/2018 21:57:36	R1801196-001S	Ti (336.122 nm)	0.5116 (ppm)	0.10	0.5116 (ppm)	114324.7935
2/23/2018 21:57:36	R1801196-001S	Tl (351.923 nm)	2.6205 o (ppm)	0.02	2.6205 (ppm)	7872.6206
2/23/2018 21:57:36	R1801196-001S	V (292.401 nm)	0.4799 (ppm)	0.13	0.4799 (ppm)	18451.7182
2/23/2018 21:57:36	R1801196-001S	Y (360.074 nm)	0.71 (Ratio)	0.64	0.71 (Ratio)	707094.94
2/23/2018 21:57:36	R1801196-001S	Y_R (360.074 nm)	0.71 (Ratio)	0.64	0.71 (Ratio)	708406.36
2/23/2018 21:57:36	R1801196-001S	Zn (213.857 nm)	0.5324 (ppm)	0.20	0.5324 (ppm)	16053.5684
2/23/2018 22:00:56	R1801196-001SD	Ag (328.068 nm)	0.0604 (ppm)	1.70	0.0604 (ppm)	4576.4861
2/23/2018 22:00:56	R1801196-001SD	Al (394.401 nm)	2.6310 (ppm)	0.97	2.6310 (ppm)	38129.8459
2/23/2018 22:00:56	R1801196-001SD	As (188.980 nm)	0.0437 (ppm)	33.24	0.0437 (ppm)	38.2717
2/23/2018 22:00:56	R1801196-001SD	B (249.772 nm)	1.1386 (ppm)	1.96	1.1386 (ppm)	34705.2913
2/23/2018 22:00:56	R1801196-001SD	Ba (230.424 nm)	2.9409 (ppm)	2.16	2.9409 (ppm)	102801.9315
2/23/2018 22:00:56	R1801196-001SD	Be (313.107 nm)	0.0447 (ppm)	1.85	0.0447 (ppm)	66788.9432
2/23/2018 22:00:56	R1801196-001SD	Ca (227.547 nm)	2734.1921 o (ppm)	1.77	2734.1921 (ppm)	191116.0080
2/23/2018 22:00:56	R1801196-001SD	Cd (214.439 nm)	0.0424 (ppm)	2.40	0.0424 (ppm)	925.3570
2/23/2018 22:00:56	R1801196-001SD	Co (230.786 nm)	0.4425 (ppm)	1.41	0.4425 (ppm)	4706.0183
2/23/2018 22:00:56	R1801196-001SD	Cr (267.716 nm)	0.1856 (ppm)	1.88	0.1856 (ppm)	8974.3516
2/23/2018 22:00:56	R1801196-001SD	Cu (327.395 nm)	0.2919 (ppm)	1.27	0.2919 (ppm)	20548.1333
2/23/2018 22:00:56	R1801196-001SD	Fe (234.350 nm)	3.1136 (ppm)	1.86	3.1136 (ppm)	35056.3265
2/23/2018 22:00:56	R1801196-001SD	K (766.491 nm)	99.2107 o (ppm)	1.59	99.2107 (ppm)	364980.8257
2/23/2018 22:00:56	R1801196-001SD	Mg (279.078 nm)	53.9258 (ppm)	1.86	53.9258 (ppm)	111353.2640
2/23/2018 22:00:56	R1801196-001SD	Mn (257.610 nm)	2.8628 o (ppm)	1.96	2.8628 (ppm)	929347.2081
2/23/2018 22:00:56	R1801196-001SD	Mo (202.032 nm)	0.4582 (ppm)	1.94	0.4582 (ppm)	4801.7092
2/23/2018 22:00:56	R1801196-001SD	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:00:56	R1801196-001SD	Ni (230.299 nm)	0.4129 (ppm)	2.37	0.4129 (ppm)	2922.9432
2/23/2018 22:00:56	R1801196-001SD	Pb (220.353 nm)	0.4456 (ppm)	1.28	0.4456 (ppm)	1021.7556
2/23/2018 22:00:56	R1801196-001SD	Sb (217.582 nm)	0.5174 (ppm)	1.87	0.5174 (ppm)	821.9021
2/23/2018 22:00:56	R1801196-001SD	Se (196.026 nm)	1.0963 o (ppm)	1.04	1.0963 (ppm)	1041.0712
2/23/2018 22:00:56	R1801196-001SD	Sn (189.925 nm)	4.3629 (ppm)	1.53	4.3629 (ppm)	5376.1791
2/23/2018 22:00:56	R1801196-001SD	Sr (216.596 nm)	15.9018 o (ppm)	2.04	15.9018 (ppm)	220220.7932
2/23/2018 22:00:56	R1801196-001SD	Ti (336.122 nm)	0.5050 (ppm)	1.81	0.5050 (ppm)	112829.2444
2/23/2018 22:00:56	R1801196-001SD	Tl (351.923 nm)	2.5769 o (ppm)	1.90	2.5769 (ppm)	7741.7993
2/23/2018 22:00:56	R1801196-001SD	V (292.401 nm)	0.4747 (ppm)	1.81	0.4747 (ppm)	18254.7180
2/23/2018 22:00:56	R1801196-001SD	Y (360.074 nm)	0.72 (Ratio)	0.87	0.72 (Ratio)	715309.63
2/23/2018 22:00:56	R1801196-001SD	Y_R (360.074 nm)	0.72 (Ratio)	0.86	0.72 (Ratio)	716636.18
2/23/2018 22:00:56	R1801196-001SD	Zn (213.857 nm)	0.5253 (ppm)	2.13	0.5253 (ppm)	15837.7376
2/23/2018 22:04:17	R1801196-001A	Ag (328.068 nm)	0.0525 (ppm)	0.31	0.0525 (ppm)	3957.6181
2/23/2018 22:04:17	R1801196-001A	Al (394.401 nm)	2.5952 (ppm)	0.68	2.5952 (ppm)	37611.6249
2/23/2018 22:04:17	R1801196-001A	As (188.980 nm)	0.0479 (ppm)	1.89	0.0479 (ppm)	42.2683
2/23/2018 22:04:17	R1801196-001A	B (249.772 nm)	1.1423 (ppm)	0.32	1.1423 (ppm)	34817.1463
2/23/2018 22:04:17	R1801196-001A	Ba (230.424 nm)	2.9170 (ppm)	0.98	2.9170 (ppm)	101964.6364
2/23/2018 22:04:17	R1801196-001A	Be (313.107 nm)	0.0441 (ppm)	0.29	0.0441 (ppm)	65870.3804
2/23/2018 22:04:17	R1801196-001A	Ca (227.547 nm)	2689.6696 o (ppm)	0.22	2689.6696 (ppm)	188004.0706
2/23/2018 22:04:17	R1801196-001A	Cd (214.439 nm)	0.0424 (ppm)	1.19	0.0424 (ppm)	923.8761
2/23/2018 22:04:17	R1801196-001A	Co (230.786 nm)	0.4376 (ppm)	0.70	0.4376 (ppm)	4654.6157
2/23/2018 22:04:17	R1801196-001A	Cr (267.716 nm)	0.1828 (ppm)	0.53	0.1828 (ppm)	8836.3865



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:04:17	R1801196-001A	Cu (327.395 nm)	0.2861 (ppm)	0.19	0.2861 (ppm)	20138.9033
2/23/2018 22:04:17	R1801196-001A	Fe (234.350 nm)	3.1225 (ppm)	0.42	3.1225 (ppm)	35156.2240
2/23/2018 22:04:17	R1801196-001A	K (766.491 nm)	97.4354 o (ppm)	0.32	97.4354 (ppm)	358449.6033
2/23/2018 22:04:17	R1801196-001A	Mg (279.078 nm)	53.2194 (ppm)	0.35	53.2194 (ppm)	109894.4558
2/23/2018 22:04:17	R1801196-001A	Mn (257.610 nm)	2.8205 o (ppm)	0.42	2.8205 (ppm)	915628.8160
2/23/2018 22:04:17	R1801196-001A	Mo (202.032 nm)	0.4534 (ppm)	0.55	0.4534 (ppm)	4751.3077
2/23/2018 22:04:17	R1801196-001A	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:04:17	R1801196-001A	Ni (230.299 nm)	0.4107 (ppm)	0.49	0.4107 (ppm)	2907.2759
2/23/2018 22:04:17	R1801196-001A	Pb (220.353 nm)	0.4369 (ppm)	0.59	0.4369 (ppm)	1002.1103
2/23/2018 22:04:17	R1801196-001A	Sb (217.582 nm)	0.5443 (ppm)	0.35	0.5443 (ppm)	864.6870
2/23/2018 22:04:17	R1801196-001A	Se (196.026 nm)	1.1638 o (ppm)	0.67	1.1638 (ppm)	1105.2625
2/23/2018 22:04:17	R1801196-001A	Sn (189.925 nm)	4.4834 (ppm)	0.67	4.4834 (ppm)	5524.6677
2/23/2018 22:04:17	R1801196-001A	Sr (216.596 nm)	15.7778 o (ppm)	0.54	15.7778 (ppm)	218504.0886
2/23/2018 22:04:17	R1801196-001A	Ti (336.122 nm)	0.5014 (ppm)	0.26	0.5014 (ppm)	112020.6182
2/23/2018 22:04:17	R1801196-001A	Tl (351.923 nm)	2.5340 o (ppm)	0.15	2.5340 (ppm)	7613.2062
2/23/2018 22:04:17	R1801196-001A	V (292.401 nm)	0.4683 (ppm)	0.31	0.4683 (ppm)	18008.2425
2/23/2018 22:04:17	R1801196-001A	Y (360.074 nm)	0.72 (Ratio)	0.54	0.72 (Ratio)	713161.40
2/23/2018 22:04:17	R1801196-001A	Y_R (360.074 nm)	0.72 (Ratio)	0.55	0.72 (Ratio)	714500.31
2/23/2018 22:04:17	R1801196-001A	Zn (213.857 nm)	0.5181 (ppm)	0.42	0.5181 (ppm)	15620.7369
2/23/2018 22:07:38	R1801196-001L	Ag (328.068 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-131.4471
2/23/2018 22:07:38	R1801196-001L	Al (394.401 nm)	0.0339 (ppm)	1.65	0.0339 (ppm)	556.9457
2/23/2018 22:07:38	R1801196-001L	As (188.980 nm)	0.0032 (ppm)	76.13	0.0032 (ppm)	0.3420
2/23/2018 22:07:38	R1801196-001L	B (249.772 nm)	0.0093 (ppm)	0.12	0.0093 (ppm)	369.3797
2/23/2018 22:07:38	R1801196-001L	Ba (230.424 nm)	0.2282 (ppm)	1.50	0.2282 (ppm)	7979.9523
2/23/2018 22:07:38	R1801196-001L	Be (313.107 nm)	0.0000 (ppm)	56.72	0.0000 (ppm)	-590.0072
2/23/2018 22:07:38	R1801196-001L	Ca (227.547 nm)	499.7976 o (ppm)	0.70	499.7976 (ppm)	34941.2207
2/23/2018 22:07:38	R1801196-001L	Cd (214.439 nm)	0.0001 (ppm)	75.24	0.0001 (ppm)	18.7292
2/23/2018 22:07:38	R1801196-001L	Co (230.786 nm)	0.0003 (ppm)	53.35	0.0003 (ppm)	-2.0655
2/23/2018 22:07:38	R1801196-001L	Cr (267.716 nm)	-0.0005 u (ppm)	23.66	-0.0005 (ppm)	-28.3967
2/23/2018 22:07:38	R1801196-001L	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	30.9755
2/23/2018 22:07:38	R1801196-001L	Fe (234.350 nm)	0.4928 (ppm)	0.77	0.4928 (ppm)	5564.0332
2/23/2018 22:07:38	R1801196-001L	K (766.491 nm)	11.1943 (ppm)	0.51	11.1943 (ppm)	41179.4564
2/23/2018 22:07:38	R1801196-001L	Mg (279.078 nm)	11.0749 (ppm)	0.84	11.0749 (ppm)	22865.5594
2/23/2018 22:07:38	R1801196-001L	Mn (257.610 nm)	0.5119 (ppm)	0.85	0.5119 (ppm)	166179.2936
2/23/2018 22:07:38	R1801196-001L	Mo (202.032 nm)	0.0011 (ppm)	20.89	0.0011 (ppm)	14.6344
2/23/2018 22:07:38	R1801196-001L	Na (588.995 nm)	286.2124 o (ppm)	0.63	286.2124 (ppm)	15469099.6927
2/23/2018 22:07:38	R1801196-001L	Ni (230.299 nm)	-0.0011 u (ppm)	97.76	-0.0011 (ppm)	-30.9976
2/23/2018 22:07:38	R1801196-001L	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2300
2/23/2018 22:07:38	R1801196-001L	Sb (217.582 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	2.6778
2/23/2018 22:07:38	R1801196-001L	Se (196.026 nm)	-0.0028 u (ppm)	61.14	-0.0028 (ppm)	-4.5897
2/23/2018 22:07:38	R1801196-001L	Sn (189.925 nm)	-0.0010 u (ppm)	22.69	-0.0010 (ppm)	-0.1412
2/23/2018 22:07:38	R1801196-001L	Sr (216.596 nm)	3.0900 (ppm)	1.36	3.0900 (ppm)	42789.0867
2/23/2018 22:07:38	R1801196-001L	Ti (336.122 nm)	0.0028 (ppm)	0.74	0.0028 (ppm)	103.3638
2/23/2018 22:07:38	R1801196-001L	Tl (351.923 nm)	0.0238 (ppm)	11.50	0.0238 (ppm)	89.3474
2/23/2018 22:07:38	R1801196-001L	V (292.401 nm)	0.0004 (ppm)	40.27	0.0004 (ppm)	112.9654
2/23/2018 22:07:38	R1801196-001L	Y (360.074 nm)	0.87 (Ratio)	0.27	0.87 (Ratio)	861716.63
2/23/2018 22:07:38	R1801196-001L	Y_R (360.074 nm)	0.87 (Ratio)	0.27	0.87 (Ratio)	863248.44
2/23/2018 22:07:38	R1801196-001L	Zn (213.857 nm)	0.0016 (ppm)	8.18	0.0016 (ppm)	16.3331
2/23/2018 22:10:58	R1801196-002	Ag (328.068 nm)	-0.0007 u (ppm)	15.56	-0.0007 (ppm)	-167.2399
2/23/2018 22:10:58	R1801196-002	Al (394.401 nm)	0.0768 (ppm)	6.54	0.0768 (ppm)	1177.0794
2/23/2018 22:10:58	R1801196-002	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-1.2020

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:10:58	R1801196-002	B (249.772 nm)	0.0895 (ppm)	0.64	0.0895 (ppm)	2807.0260
2/23/2018 22:10:58	R1801196-002	Ba (230.424 nm)	3.8119 (ppm)	0.64	3.8119 (ppm)	133244.8467
2/23/2018 22:10:58	R1801196-002	Be (313.107 nm)	0.0001 (ppm)	43.71	0.0001 (ppm)	-479.2682
2/23/2018 22:10:58	R1801196-002	Ca (227.547 nm)	9294.3013 o (ppm)	0.04	9294.3013 (ppm)	649640.0866
2/23/2018 22:10:58	R1801196-002	Cd (214.439 nm)	0.0033 (ppm)	13.52	0.0033 (ppm)	85.5124
2/23/2018 22:10:58	R1801196-002	Co (230.786 nm)	-0.0027 u (ppm)	37.87	-0.0027 (ppm)	-34.3495
2/23/2018 22:10:58	R1801196-002	Cr (267.716 nm)	-0.0033 u (ppm)	11.35	-0.0033 (ppm)	-163.7329
2/23/2018 22:10:58	R1801196-002	Cu (327.395 nm)	0.0030 (ppm)	6.30	0.0030 (ppm)	241.3426
2/23/2018 22:10:58	R1801196-002	Fe (234.350 nm)	122.8254 o (ppm)	0.62	122.8254 (ppm)	1382155.1109
2/23/2018 22:10:58	R1801196-002	K (766.491 nm)	227.6281 o (ppm)	0.56	227.6281 (ppm)	837412.3103
2/23/2018 22:10:58	R1801196-002	Mg (279.078 nm)	71.9812 o (ppm)	0.94	71.9812 (ppm)	148637.9536
2/23/2018 22:10:58	R1801196-002	Mn (257.610 nm)	12.1914 o (ppm)	0.90	12.1914 (ppm)	3957686.5202
2/23/2018 22:10:58	R1801196-002	Mo (202.032 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	11.6711
2/23/2018 22:10:58	R1801196-002	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:10:58	R1801196-002	Ni (230.299 nm)	-0.0176 u (ppm)	29.16	-0.0176 (ppm)	-148.9364
2/23/2018 22:10:58	R1801196-002	Pb (220.353 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	12.9470
2/23/2018 22:10:58	R1801196-002	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.7989
2/23/2018 22:10:58	R1801196-002	Se (196.026 nm)	0.0092 (ppm)	67.79	0.0092 (ppm)	6.8595
2/23/2018 22:10:58	R1801196-002	Sn (189.925 nm)	-0.0061 u (ppm)	31.48	-0.0061 (ppm)	-6.4807
2/23/2018 22:10:58	R1801196-002	Sr (216.596 nm)	21.2852 o (ppm)	1.16	21.2852 (ppm)	294776.4089
2/23/2018 22:10:58	R1801196-002	Ti (336.122 nm)	0.0576 (ppm)	0.84	0.0576 (ppm)	12417.1822
2/23/2018 22:10:58	R1801196-002	Ti (351.923 nm)	0.3325 (ppm)	1.21	0.3325 (ppm)	1014.7786
2/23/2018 22:10:58	R1801196-002	V (292.401 nm)	0.0066 (ppm)	7.47	0.0066 (ppm)	349.1577
2/23/2018 22:10:58	R1801196-002	Y (360.074 nm)	0.56 (Ratio)	0.54	0.56 (Ratio)	557744.40
2/23/2018 22:10:58	R1801196-002	Y_R (360.074 nm)	0.56 (Ratio)	0.54	0.56 (Ratio)	558824.78
2/23/2018 22:10:58	R1801196-002	Zn (213.857 nm)	0.0271 (ppm)	0.96	0.0271 (ppm)	788.2207
2/23/2018 22:14:19	R1801196-003	Ag (328.068 nm)	-0.0006 u (ppm)	9.25	-0.0006 (ppm)	-166.3253
2/23/2018 22:14:19	R1801196-003	Al (394.401 nm)	0.0810 (ppm)	4.98	0.0810 (ppm)	1238.5425
2/23/2018 22:14:19	R1801196-003	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-3.3927
2/23/2018 22:14:19	R1801196-003	B (249.772 nm)	0.0894 (ppm)	1.10	0.0894 (ppm)	2806.2330
2/23/2018 22:14:19	R1801196-003	Ba (230.424 nm)	3.8253 (ppm)	0.79	3.8253 (ppm)	133713.7640
2/23/2018 22:14:19	R1801196-003	Be (313.107 nm)	0.0001 (ppm)	13.78	0.0001 (ppm)	-452.1830
2/23/2018 22:14:19	R1801196-003	Ca (227.547 nm)	9240.4348 o (ppm)	0.81	9240.4348 (ppm)	645875.0425
2/23/2018 22:14:19	R1801196-003	Cd (214.439 nm)	0.0034 (ppm)	6.63	0.0034 (ppm)	87.5015
2/23/2018 22:14:19	R1801196-003	Co (230.786 nm)	-0.0040 u (ppm)	44.23	-0.0040 (ppm)	-47.9608
2/23/2018 22:14:19	R1801196-003	Cr (267.716 nm)	-0.0033 u (ppm)	8.82	-0.0033 (ppm)	-165.4520
2/23/2018 22:14:19	R1801196-003	Cu (327.395 nm)	0.0031 (ppm)	16.97	0.0031 (ppm)	248.5039
2/23/2018 22:14:19	R1801196-003	Fe (234.350 nm)	123.1807 o (ppm)	0.91	123.1807 (ppm)	1386153.6183
2/23/2018 22:14:19	R1801196-003	K (766.491 nm)	225.4432 o (ppm)	1.22	225.4432 (ppm)	829374.2680
2/23/2018 22:14:19	R1801196-003	Mg (279.078 nm)	72.1067 o (ppm)	0.93	72.1067 (ppm)	148897.0031
2/23/2018 22:14:19	R1801196-003	Mn (257.610 nm)	12.2088 o (ppm)	0.82	12.2088 (ppm)	3963328.4845
2/23/2018 22:14:19	R1801196-003	Mo (202.032 nm)	0.0013 (ppm)	57.23	0.0013 (ppm)	17.6209
2/23/2018 22:14:19	R1801196-003	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:14:19	R1801196-003	Ni (230.299 nm)	-0.0190 u (ppm)	6.49	-0.0190 (ppm)	-158.9627
2/23/2018 22:14:19	R1801196-003	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.1944
2/23/2018 22:14:19	R1801196-003	Sb (217.582 nm)	-0.0037 u (ppm)	25.90	-0.0037 (ppm)	-7.4546
2/23/2018 22:14:19	R1801196-003	Se (196.026 nm)	0.0033 u (ppm)	> 100.00	0.0033 (ppm)	1.2061
2/23/2018 22:14:19	R1801196-003	Sn (189.925 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-1.9723
2/23/2018 22:14:19	R1801196-003	Sr (216.596 nm)	21.2216 o (ppm)	1.72	21.2216 (ppm)	293895.9694
2/23/2018 22:14:19	R1801196-003	Ti (336.122 nm)	0.0574 (ppm)	0.68	0.0574 (ppm)	12370.6286
2/23/2018 22:14:19	R1801196-003	Ti (351.923 nm)	0.3362 (ppm)	0.81	0.3362 (ppm)	1025.8442

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:14:19	R1801196-003	V (292.401 nm)	0.0070 (ppm)	3.69	0.0070 (ppm)	366.1646
2/23/2018 22:14:19	R1801196-003	Y (360.074 nm)	0.57 (Ratio)	0.86	0.57 (Ratio)	561205.48
2/23/2018 22:14:19	R1801196-003	Y_R (360.074 nm)	0.57 (Ratio)	0.86	0.57 (Ratio)	562318.77
2/23/2018 22:14:19	R1801196-003	Zn (213.857 nm)	0.0268 (ppm)	1.55	0.0268 (ppm)	778.5733
2/23/2018 22:17:41	R1801196-004	Ag (328.068 nm)	-0.0010 u (ppm)	19.97	-0.0010 (ppm)	-197.3028
2/23/2018 22:17:41	R1801196-004	Al (394.401 nm)	0.2082 (ppm)	3.27	0.2082 (ppm)	3077.8336
2/23/2018 22:17:41	R1801196-004	As (188.980 nm)	0.0146 (ppm)	58.05	0.0146 (ppm)	11.0722
2/23/2018 22:17:41	R1801196-004	B (249.772 nm)	0.5420 (ppm)	1.20	0.5420 (ppm)	16566.4084
2/23/2018 22:17:41	R1801196-004	Ba (230.424 nm)	0.1096 (ppm)	1.23	0.1096 (ppm)	3834.6186
2/23/2018 22:17:41	R1801196-004	Be (313.107 nm)	0.0001 (ppm)	30.47	0.0001 (ppm)	-435.0076
2/23/2018 22:17:41	R1801196-004	Ca (227.547 nm)	12505.0309 o (ppm)	1.05	12505.0309 (ppm)	874056.5961
2/23/2018 22:17:41	R1801196-004	Cd (214.439 nm)	0.0011 (ppm)	3.94	0.0011 (ppm)	38.9389
2/23/2018 22:17:41	R1801196-004	Co (230.786 nm)	0.0181 (ppm)	4.05	0.0181 (ppm)	186.7798
2/23/2018 22:17:41	R1801196-004	Cr (267.716 nm)	-0.0016 u (ppm)	20.55	-0.0016 (ppm)	-83.0107
2/23/2018 22:17:41	R1801196-004	Cu (327.395 nm)	0.0062 (ppm)	5.19	0.0062 (ppm)	466.8838
2/23/2018 22:17:41	R1801196-004	Fe (234.350 nm)	35.6465 o (ppm)	1.36	35.6465 (ppm)	401144.2415
2/23/2018 22:17:41	R1801196-004	K (766.491 nm)	164.3001 o (ppm)	1.17	164.3001 (ppm)	604436.5188
2/23/2018 22:17:41	R1801196-004	Mg (279.078 nm)	350.6940 o (ppm)	1.40	350.6940 (ppm)	724183.9875
2/23/2018 22:17:41	R1801196-004	Mn (257.610 nm)	2.5867 o (ppm)	1.35	2.5867 (ppm)	839716.7055
2/23/2018 22:17:41	R1801196-004	Mo (202.032 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	9.0027
2/23/2018 22:17:41	R1801196-004	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:17:41	R1801196-004	Ni (230.299 nm)	-0.0056 u (ppm)	40.41	-0.0056 (ppm)	-63.5141
2/23/2018 22:17:41	R1801196-004	Pb (220.353 nm)	0.0063 (ppm)	53.07	0.0063 (ppm)	20.1206
2/23/2018 22:17:41	R1801196-004	Sb (217.582 nm)	0.0064 (ppm)	85.90	0.0064 (ppm)	8.6136
2/23/2018 22:17:41	R1801196-004	Se (196.026 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	-4.9257
2/23/2018 22:17:41	R1801196-004	Sn (189.925 nm)	-0.0059 u (ppm)	83.30	-0.0059 (ppm)	-6.1776
2/23/2018 22:17:41	R1801196-004	Sr (216.596 nm)	39.0452 o (ppm)	1.09	39.0452 (ppm)	540736.4377
2/23/2018 22:17:41	R1801196-004	Ti (336.122 nm)	0.0853 (ppm)	1.17	0.0853 (ppm)	18625.9423
2/23/2018 22:17:41	R1801196-004	Tl (351.923 nm)	0.4521 (ppm)	1.88	0.4521 (ppm)	1373.3057
2/23/2018 22:17:41	R1801196-004	V (292.401 nm)	0.0033 (ppm)	7.00	0.0033 (ppm)	225.9050
2/23/2018 22:17:41	R1801196-004	Y (360.074 nm)	0.51 (Ratio)	1.31	0.51 (Ratio)	500138.74
2/23/2018 22:17:41	R1801196-004	Y_R (360.074 nm)	0.51 (Ratio)	1.31	0.51 (Ratio)	501138.29
2/23/2018 22:17:41	R1801196-004	Zn (213.857 nm)	0.0796 (ppm)	1.47	0.0796 (ppm)	2374.4229
2/23/2018 22:21:02	Continuing Calibration Verification1	Ag (328.068 nm)	0.4744 (ppm)	0.33	0.4744 (ppm)	36725.6174
2/23/2018 22:21:02	Continuing Calibration Verification1	Al (394.401 nm)	9.4841 (ppm)	0.24	9.4841 (ppm)	137273.3099
2/23/2018 22:21:02	Continuing Calibration Verification1	As (188.980 nm)	0.9389 (ppm)	1.20	0.9389 (ppm)	876.6713
2/23/2018 22:21:02	Continuing Calibration Verification1	B (249.772 nm)	2.4236 (ppm)	0.35	2.4236 (ppm)	73771.2743
2/23/2018 22:21:02	Continuing Calibration Verification1	Ba (230.424 nm)	10.1698 (ppm)	0.69	10.1698 (ppm)	355480.4503
2/23/2018 22:21:02	Continuing Calibration Verification1	Be (313.107 nm)	0.2521 (ppm)	0.52	0.2521 (ppm)	379562.3569
2/23/2018 22:21:02	Continuing Calibration Verification1	Ca (227.547 nm)	23.6528 (ppm)	0.30	23.6528 (ppm)	1660.6942
2/23/2018 22:21:02	Continuing Calibration Verification1	Cd (214.439 nm)	0.4876 (ppm)	0.66	0.4876 (ppm)	10469.4470
2/23/2018 22:21:02	Continuing Calibration Verification1	Co (230.786 nm)	2.5339 (ppm)	0.47	2.5339 (ppm)	26976.8880
2/23/2018 22:21:02	Continuing Calibration Verification1	Cr (267.716 nm)	0.5246 (ppm)	0.56	0.5246 (ppm)	25373.2015
2/23/2018 22:21:02	Continuing Calibration Verification1	Cu (327.395 nm)	1.2090 (ppm)	0.43	1.2090 (ppm)	85005.1638
2/23/2018 22:21:02	Continuing Calibration Verification1	Fe (234.350 nm)	5.0125 (ppm)	0.49	5.0125 (ppm)	56423.8430
2/23/2018 22:21:02	Continuing Calibration Verification1	K (766.491 nm)	24.5478 (ppm)	0.28	24.5478 (ppm)	90305.0775
2/23/2018 22:21:02	Continuing Calibration Verification1	Mg (279.078 nm)	24.6791 (ppm)	0.48	24.6791 (ppm)	50958.4014
2/23/2018 22:21:02	Continuing Calibration Verification1	Mn (257.610 nm)	0.7632 (ppm)	0.46	0.7632 (ppm)	247761.4472
2/23/2018 22:21:02	Continuing Calibration Verification1	Mo (202.032 nm)	2.3977 (ppm)	0.54	2.3977 (ppm)	25111.4890
2/23/2018 22:21:02	Continuing Calibration Verification1	Na (588.995 nm)	25.1677 (ppm)	0.41	25.1677 (ppm)	1356067.4613
2/23/2018 22:21:02	Continuing Calibration Verification1	Ni (230.299 nm)	2.0236 (ppm)	0.61	2.0236 (ppm)	14416.0545

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:21:02	Continuing Calibration Verification1	Pb (220.353 nm)	0.4911 (ppm)	0.57	0.4911 (ppm)	1125.5728
2/23/2018 22:21:02	Continuing Calibration Verification1	Sb (217.582 nm)	4.7834 (ppm)	0.33	4.7834 (ppm)	7611.0900
2/23/2018 22:21:02	Continuing Calibration Verification1	Se (196.026 nm)	0.4749 (ppm)	0.80	0.4749 (ppm)	449.9335
2/23/2018 22:21:02	Continuing Calibration Verification1	Sn (189.925 nm)	4.9204 (ppm)	0.47	4.9204 (ppm)	6063.0828
2/23/2018 22:21:02	Continuing Calibration Verification1	Sr (216.596 nm)	2.5344 (ppm)	0.80	2.5344 (ppm)	35094.0814
2/23/2018 22:21:02	Continuing Calibration Verification1	Ti (336.122 nm)	2.4757 (ppm)	0.09	2.4757 (ppm)	555193.9750
2/23/2018 22:21:02	Continuing Calibration Verification1	Tl (351.923 nm)	0.9728 (ppm)	0.55	0.9728 (ppm)	2933.8136
2/23/2018 22:21:02	Continuing Calibration Verification1	V (292.401 nm)	2.4897 (ppm)	0.42	2.4897 (ppm)	95321.0216
2/23/2018 22:21:02	Continuing Calibration Verification1	Y (360.074 nm)	0.97 (Ratio)	0.55	0.97 (Ratio)	958381.43
2/23/2018 22:21:02	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.55	0.97 (Ratio)	960049.40
2/23/2018 22:21:02	Continuing Calibration Verification1	Zn (213.857 nm)	0.9794 (ppm)	0.46	0.9794 (ppm)	29558.6401
2/23/2018 22:24:22	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0003 u (ppm)	44.59	-0.0003 (ppm)	-136.4781
2/23/2018 22:24:22	Continuing Calibration Blank1	Al (394.401 nm)	0.0032 (ppm)	21.01	0.0032 (ppm)	113.4081
2/23/2018 22:24:22	Continuing Calibration Blank1	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.2532
2/23/2018 22:24:22	Continuing Calibration Blank1	B (249.772 nm)	0.0016 (ppm)	24.08	0.0016 (ppm)	137.4336
2/23/2018 22:24:22	Continuing Calibration Blank1	Ba (230.424 nm)	0.0010 (ppm)	6.35	0.0010 (ppm)	41.0148
2/23/2018 22:24:22	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	10.78	0.0000 (ppm)	-507.9688
2/23/2018 22:24:22	Continuing Calibration Blank1	Cb (227.547 nm)	0.0173 u (ppm)	> 100.00	0.0173 (ppm)	8.6772
2/23/2018 22:24:22	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.3595
2/23/2018 22:24:22	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.6636
2/23/2018 22:24:22	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-10.3303
2/23/2018 22:24:22	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 (ppm)	64.81	0.0001 (ppm)	34.0247
2/23/2018 22:24:22	Continuing Calibration Blank1	Fe (234.350 nm)	0.0014 (ppm)	23.89	0.0014 (ppm)	34.8465
2/23/2018 22:24:22	Continuing Calibration Blank1	K (766.491 nm)	0.0223 (ppm)	17.82	0.0223 (ppm)	79.1411
2/23/2018 22:24:22	Continuing Calibration Blank1	Mg (279.078 nm)	0.0024 (ppm)	19.77	0.0024 (ppm)	0.5507
2/23/2018 22:24:22	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001 (ppm)	9.03	0.0001 (ppm)	31.4845
2/23/2018 22:24:22	Continuing Calibration Blank1	Mo (202.032 nm)	0.0023 (ppm)	7.55	0.0023 (ppm)	27.9983
2/23/2018 22:24:22	Continuing Calibration Blank1	Na (588.995 nm)	0.0552 (ppm)	9.36	0.0552 (ppm)	-1605.8528
2/23/2018 22:24:22	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-24.3053
2/23/2018 22:24:22	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.3914
2/23/2018 22:24:22	Continuing Calibration Blank1	Sb (217.582 nm)	0.0026 (ppm)	75.33	0.0026 (ppm)	2.6821
2/23/2018 22:24:22	Continuing Calibration Blank1	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.4464
2/23/2018 22:24:22	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	0.7796
2/23/2018 22:24:22	Continuing Calibration Blank1	Sr (216.596 nm)	0.0006 (ppm)	22.87	0.0006 (ppm)	4.0365
2/23/2018 22:24:22	Continuing Calibration Blank1	Ti (336.122 nm)	0.0008 (ppm)	2.76	0.0008 (ppm)	-341.1676
2/23/2018 22:24:22	Continuing Calibration Blank1	Tl (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.5956
2/23/2018 22:24:22	Continuing Calibration Blank1	V (292.401 nm)	0.0003 (ppm)	42.34	0.0003 (ppm)	107.9568
2/23/2018 22:24:22	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	1.08	1.02 (Ratio)	1008632.30
2/23/2018 22:24:22	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	1.08	1.02 (Ratio)	1010314.06
2/23/2018 22:24:22	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001 (ppm)	75.57	0.0001 (ppm)	-27.6247
2/23/2018 22:27:43	R1801196-005	Ag (328.068 nm)	-0.0006 u (ppm)	5.69	-0.0006 (ppm)	-163.4400
2/23/2018 22:27:43	R1801196-005	Al (394.401 nm)	1.2406 (ppm)	0.50	1.2406 (ppm)	18014.7693
2/23/2018 22:27:43	R1801196-005	As (188.980 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-4.7008
2/23/2018 22:27:43	R1801196-005	B (249.772 nm)	0.0232 (ppm)	1.24	0.0232 (ppm)	792.8033
2/23/2018 22:27:43	R1801196-005	Ba (230.424 nm)	1.8627 (ppm)	0.67	1.8627 (ppm)	65113.7663
2/23/2018 22:27:43	R1801196-005	Be (313.107 nm)	0.0000 (ppm)	12.10	0.0000 (ppm)	-500.0612
2/23/2018 22:27:43	R1801196-005	Ca (227.547 nm)	5392.5827 o (ppm)	0.34	5392.5827 (ppm)	376926.3483
2/23/2018 22:27:43	R1801196-005	Cd (214.439 nm)	0.0003 (ppm)	38.01	0.0003 (ppm)	21.7000
2/23/2018 22:27:43	R1801196-005	Co (230.786 nm)	0.0041 (ppm)	9.56	0.0041 (ppm)	38.2600
2/23/2018 22:27:43	R1801196-005	Cr (267.716 nm)	-0.0012 u (ppm)	11.39	-0.0012 (ppm)	-62.8231
2/23/2018 22:27:43	R1801196-005	Cu (327.395 nm)	0.0040 (ppm)	5.75	0.0040 (ppm)	311.4331

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:27:43	R1801196-005	Fe (234.350 nm)	1.8276 (ppm)	0.43	1.8276 (ppm)	20584.5308
2/23/2018 22:27:43	R1801196-005	K (766.491 nm)	129.0551 o (ppm)	0.28	129.0551 (ppm)	474774.5704
2/23/2018 22:27:43	R1801196-005	Mg (279.078 nm)	37.7073 (ppm)	0.38	37.7073 (ppm)	77861.8141
2/23/2018 22:27:43	R1801196-005	Mn (257.610 nm)	6.0631 o (ppm)	0.33	6.0631 (ppm)	1968271.7578
2/23/2018 22:27:43	R1801196-005	Mo (202.032 nm)	0.0070 (ppm)	9.44	0.0070 (ppm)	76.9290
2/23/2018 22:27:43	R1801196-005	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:27:43	R1801196-005	Ni (230.299 nm)	-0.0016 u (ppm)	39.18	-0.0016 (ppm)	-34.6419
2/23/2018 22:27:43	R1801196-005	Pb (220.353 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	8.4105
2/23/2018 22:27:43	R1801196-005	Sb (217.582 nm)	0.0028 u (ppm)	> 100.00	0.0028 (ppm)	3.0083
2/23/2018 22:27:43	R1801196-005	Se (196.026 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-3.3187
2/23/2018 22:27:43	R1801196-005	Sn (189.925 nm)	-0.0020 u (ppm)	79.50	-0.0020 (ppm)	-1.3467
2/23/2018 22:27:43	R1801196-005	Sr (216.596 nm)	20.3460 o (ppm)	0.43	20.3460 (ppm)	281769.5661
2/23/2018 22:27:43	R1801196-005	Ti (336.122 nm)	0.0636 (ppm)	1.63	0.0636 (ppm)	13755.3943
2/23/2018 22:27:43	R1801196-005	Ti (351.923 nm)	0.2133 (ppm)	2.78	0.2133 (ppm)	657.3782
2/23/2018 22:27:43	R1801196-005	V (292.401 nm)	0.0026 (ppm)	15.49	0.0026 (ppm)	198.6519
2/23/2018 22:27:43	R1801196-005	Y (360.074 nm)	0.64 (Ratio)	0.47	0.64 (Ratio)	631968.29
2/23/2018 22:27:43	R1801196-005	Y_R (360.074 nm)	0.64 (Ratio)	0.47	0.64 (Ratio)	633241.96
2/23/2018 22:27:43	R1801196-005	Zn (213.857 nm)	0.0077 (ppm)	1.09	0.0077 (ppm)	201.2664
2/23/2018 22:31:04	R1801196-006	Ag (328.068 nm)	-0.0004 u (ppm)	12.35	-0.0004 (ppm)	-145.6119
2/23/2018 22:31:04	R1801196-006	Al (394.401 nm)	0.0629 (ppm)	3.15	0.0629 (ppm)	976.1890
2/23/2018 22:31:04	R1801196-006	As (188.980 nm)	0.0083 (ppm)	35.97	0.0083 (ppm)	5.1082
2/23/2018 22:31:04	R1801196-006	B (249.772 nm)	0.2230 (ppm)	0.77	0.2230 (ppm)	6867.9383
2/23/2018 22:31:04	R1801196-006	Ba (230.424 nm)	0.0366 (ppm)	0.73	0.0366 (ppm)	1283.6321
2/23/2018 22:31:04	R1801196-006	Be (313.107 nm)	0.0000 (ppm)	63.81	0.0000 (ppm)	-585.9937
2/23/2018 22:31:04	R1801196-006	Ca (227.547 nm)	2621.3815 o (ppm)	0.31	2621.3815 (ppm)	183231.0239
2/23/2018 22:31:04	R1801196-006	Cd (214.439 nm)	0.0002 (ppm)	24.00	0.0002 (ppm)	20.3442
2/23/2018 22:31:04	R1801196-006	Co (230.786 nm)	0.0016 (ppm)	53.90	0.0016 (ppm)	10.9211
2/23/2018 22:31:04	R1801196-006	Cr (267.716 nm)	-0.0007 u (ppm)	17.65	-0.0007 (ppm)	-38.1314
2/23/2018 22:31:04	R1801196-006	Cu (327.395 nm)	0.0008 (ppm)	16.26	0.0008 (ppm)	85.5855
2/23/2018 22:31:04	R1801196-006	Fe (234.350 nm)	11.5635 o (ppm)	0.95	11.5635 (ppm)	130141.2153
2/23/2018 22:31:04	R1801196-006	K (766.491 nm)	67.6365 o (ppm)	0.23	67.6365 (ppm)	248823.2472
2/23/2018 22:31:04	R1801196-006	Mg (279.078 nm)	110.9532 o (ppm)	0.91	110.9532 (ppm)	229115.6492
2/23/2018 22:31:04	R1801196-006	Mn (257.610 nm)	0.4044 (ppm)	1.05	0.4044 (ppm)	131295.3287
2/23/2018 22:31:04	R1801196-006	Mo (202.032 nm)	0.0007 (ppm)	71.92	0.0007 (ppm)	11.3559
2/23/2018 22:31:04	R1801196-006	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:31:04	R1801196-006	Ni (230.299 nm)	-0.0075 u (ppm)	2.39	-0.0075 (ppm)	-76.6072
2/23/2018 22:31:04	R1801196-006	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.2122
2/23/2018 22:31:04	R1801196-006	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.4537
2/23/2018 22:31:04	R1801196-006	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.9092
2/23/2018 22:31:04	R1801196-006	Sn (189.925 nm)	-0.0026 u (ppm)	27.87	-0.0026 (ppm)	-2.1231
2/23/2018 22:31:04	R1801196-006	Sr (216.596 nm)	24.5298 o (ppm)	0.90	24.5298 (ppm)	339711.2675
2/23/2018 22:31:04	R1801196-006	Ti (336.122 nm)	0.0140 (ppm)	0.81	0.0140 (ppm)	2619.0291
2/23/2018 22:31:04	R1801196-006	Ti (351.923 nm)	0.1002 (ppm)	3.05	0.1002 (ppm)	318.5102
2/23/2018 22:31:04	R1801196-006	V (292.401 nm)	0.0011 (ppm)	18.08	0.0011 (ppm)	139.0660
2/23/2018 22:31:04	R1801196-006	Y (360.074 nm)	0.69 (Ratio)	0.38	0.69 (Ratio)	680358.83
2/23/2018 22:31:04	R1801196-006	Y_R (360.074 nm)	0.69 (Ratio)	0.38	0.69 (Ratio)	681728.97
2/23/2018 22:31:04	R1801196-006	Zn (213.857 nm)	0.0093 (ppm)	2.93	0.0093 (ppm)	248.9754
2/23/2018 22:34:25	R1801196-007	Ag (328.068 nm)	-0.0002 u (ppm)	25.30	-0.0002 (ppm)	-129.4840
2/23/2018 22:34:25	R1801196-007	Al (394.401 nm)	0.0590 (ppm)	1.17	0.0590 (ppm)	920.3119
2/23/2018 22:34:25	R1801196-007	As (188.980 nm)	0.0070 (ppm)	48.22	0.0070 (ppm)	3.8937
2/23/2018 22:34:25	R1801196-007	B (249.772 nm)	0.1535 (ppm)	0.13	0.1535 (ppm)	4752.7157

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:34:25	R1801196-007	Ba (230.424 nm)	0.0107 (ppm)	2.28	0.0107 (ppm)	377.1985
2/23/2018 22:34:25	R1801196-007	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-571.7343
2/23/2018 22:34:25	R1801196-007	Ce (227.547 nm)	254.8178 o (ppm)	0.23	254.8178 (ppm)	17818.1605
2/23/2018 22:34:25	R1801196-007	Cd (214.439 nm)	-0.0001 u (ppm)	75.13	-0.0001 (ppm)	13.1507
2/23/2018 22:34:25	R1801196-007	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.5477
2/23/2018 22:34:25	R1801196-007	Cr (267.716 nm)	-0.0005 u (ppm)	16.16	-0.0005 (ppm)	-27.2431
2/23/2018 22:34:25	R1801196-007	Cu (327.395 nm)	0.0002 (ppm)	15.95	0.0002 (ppm)	43.0198
2/23/2018 22:34:25	R1801196-007	Fe (234.350 nm)	1.6664 (ppm)	0.34	1.6664 (ppm)	18771.0981
2/23/2018 22:34:25	R1801196-007	K (766.491 nm)	3.3419 (ppm)	0.42	3.3419 (ppm)	12291.5323
2/23/2018 22:34:25	R1801196-007	Mg (279.078 nm)	46.6634 (ppm)	0.32	46.6634 (ppm)	86356.2054
2/23/2018 22:34:25	R1801196-007	Mn (257.610 nm)	0.0995 (ppm)	0.33	0.0995 (ppm)	32306.1005
2/23/2018 22:34:25	R1801196-007	Mo (202.032 nm)	0.0011 (ppm)	24.70	0.0011 (ppm)	15.2859
2/23/2018 22:34:25	R1801196-007	Na (588.995 nm)	37.8361 (ppm)	0.12	37.8361 (ppm)	2040967.8637
2/23/2018 22:34:25	R1801196-007	Ni (230.299 nm)	-0.0086 u (ppm)	8.69	-0.0086 (ppm)	-84.4965
2/23/2018 22:34:25	R1801196-007	Pb (220.353 nm)	-0.0012 u (ppm)	26.68	-0.0012 (ppm)	3.0566
2/23/2018 22:34:25	R1801196-007	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	0.1165
2/23/2018 22:34:25	R1801196-007	Se (196.026 nm)	-0.0024 u (ppm)	83.25	-0.0024 (ppm)	-4.1615
2/23/2018 22:34:25	R1801196-007	Sn (189.925 nm)	-0.0015 u (ppm)	53.12	-0.0015 (ppm)	-0.7866
2/23/2018 22:34:25	R1801196-007	Sr (216.596 nm)	4.1017 (ppm)	1.63	4.1017 (ppm)	56800.4809
2/23/2018 22:34:25	R1801196-007	Tl (336.122 nm)	0.0024 (ppm)	1.45	0.0024 (ppm)	9.8728
2/23/2018 22:34:25	R1801196-007	Tl (351.823 nm)	0.0084 (ppm)	47.67	0.0084 (ppm)	43.2908
2/23/2018 22:34:25	R1801196-007	V (292.401 nm)	0.0002 (ppm)	79.89	0.0002 (ppm)	106.4484
2/23/2018 22:34:25	R1801196-007	Y (360.074 nm)	0.94 (Ratio)	0.51	0.94 (Ratio)	925725.10
2/23/2018 22:34:25	R1801196-007	Y_R (360.074 nm)	0.94 (Ratio)	0.51	0.94 (Ratio)	927441.16
2/23/2018 22:34:25	R1801196-007	Zn (213.857 nm)	0.0052 (ppm)	3.68	0.0052 (ppm)	124.7645
2/23/2018 22:37:45	R1801196-008	Ag (328.068 nm)	-0.0005 u (ppm)	25.75	-0.0005 (ppm)	-151.1933
2/23/2018 22:37:45	R1801196-008	Al (394.401 nm)	0.3966 (ppm)	0.49	0.3966 (ppm)	5803.5130
2/23/2018 22:37:45	R1801196-008	As (188.980 nm)	0.0033 (ppm)	69.62	0.0033 (ppm)	0.4374
2/23/2018 22:37:45	R1801196-008	B (249.772 nm)	0.0058 (ppm)	3.94	0.0058 (ppm)	265.0489
2/23/2018 22:37:45	R1801196-008	Ba (230.424 nm)	0.7602 (ppm)	0.58	0.7602 (ppm)	26578.2317
2/23/2018 22:37:45	R1801196-008	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-571.1716
2/23/2018 22:37:45	R1801196-008	Ce (227.547 nm)	2387.2518 o (ppm)	0.25	2387.2518 (ppm)	166886.3360
2/23/2018 22:37:45	R1801196-008	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.5177
2/23/2018 22:37:45	R1801196-008	Co (230.786 nm)	0.0007 (ppm)	88.90	0.0007 (ppm)	1.2775
2/23/2018 22:37:45	R1801196-008	Cr (267.716 nm)	0.0023 (ppm)	9.43	0.0023 (ppm)	108.3847
2/23/2018 22:37:45	R1801196-008	Cu (327.395 nm)	0.0005 (ppm)	47.09	0.0005 (ppm)	59.9784
2/23/2018 22:37:45	R1801196-008	Fe (234.350 nm)	0.0282 (ppm)	1.11	0.0282 (ppm)	336.6494
2/23/2018 22:37:45	R1801196-008	K (766.491 nm)	129.0333 o (ppm)	0.14	129.0333 (ppm)	474694.2189
2/23/2018 22:37:45	R1801196-008	Mg (279.078 nm)	0.0335 (ppm)	14.59	0.0335 (ppm)	64.7652
2/23/2018 22:37:45	R1801196-008	Mn (257.610 nm)	0.0012 (ppm)	2.49	0.0012 (ppm)	390.0551
2/23/2018 22:37:45	R1801196-008	Mo (202.032 nm)	0.0063 (ppm)	3.25	0.0063 (ppm)	69.8941
2/23/2018 22:37:45	R1801196-008	Na (588.995 nm)	#### (ppm)	N/A	### (ppm)	###
2/23/2018 22:37:45	R1801196-008	Ni (230.299 nm)	0.0112 (ppm)	6.69	0.0112 (ppm)	56.6853
2/23/2018 22:37:45	R1801196-008	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.7738
2/23/2018 22:37:45	R1801196-008	Sb (217.582 nm)	0.0032 (ppm)	57.52	0.0032 (ppm)	3.5772
2/23/2018 22:37:45	R1801196-008	Se (196.026 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	-4.5363
2/23/2018 22:37:45	R1801196-008	Sn (189.925 nm)	-0.0045 u (ppm)	15.91	-0.0045 (ppm)	-4.4910
2/23/2018 22:37:45	R1801196-008	Sr (216.596 nm)	10.1433 o (ppm)	0.71	10.1433 (ppm)	140471.5236
2/23/2018 22:37:45	R1801196-008	Tl (336.122 nm)	0.0130 (ppm)	1.09	0.0130 (ppm)	2403.2065
2/23/2018 22:37:45	R1801196-008	Tl (351.823 nm)	0.0950 (ppm)	3.54	0.0950 (ppm)	302.9772
2/23/2018 22:37:45	R1801196-008	V (292.401 nm)	0.0016 (ppm)	5.40	0.0016 (ppm)	160.4276

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:37:45	R1801196-008	Y (360.074 nm)	0.76 (Ratio)	0.35	0.76 (Ratio)	748514.11
2/23/2018 22:37:45	R1801196-008	Y_R (360.074 nm)	0.76 (Ratio)	0.35	0.76 (Ratio)	750000.87
2/23/2018 22:37:45	R1801196-008	Zn (213.857 nm)	0.0021 (ppm)	8.93	0.0021 (ppm)	32.5086
2/23/2018 22:41:05	R1801196-009	Ag (328.068 nm)	-0.0016 u (ppm)	15.01	-0.0016 (ppm)	-239.0038
2/23/2018 22:41:05	R1801196-009	Al (394.401 nm)	0.0853 (ppm)	6.98	0.0853 (ppm)	1299.7357
2/23/2018 22:41:05	R1801196-009	As (188.980 nm)	0.0156 (ppm)	65.55	0.0156 (ppm)	11.9693
2/23/2018 22:41:05	R1801196-009	B (249.772 nm)	0.1601 (ppm)	2.98	0.1601 (ppm)	4955.5900
2/23/2018 22:41:05	R1801196-009	Ba (230.424 nm)	0.1483 (ppm)	2.87	0.1483 (ppm)	5186.8455
2/23/2018 22:41:05	R1801196-009	Be (313.107 nm)	0.0001 (ppm)	9.72	0.0001 (ppm)	-354.1528
2/23/2018 22:41:05	R1801196-009	Ca (227.547 nm)	18630.4844 o (ppm)	2.49	18630.4844 (ppm)	1302200.0702
2/23/2018 22:41:05	R1801196-009	Cd (214.439 nm)	0.0017 (ppm)	21.05	0.0017 (ppm)	52.7682
2/23/2018 22:41:05	R1801196-009	Co (230.786 nm)	0.0029 (ppm)	> 100.00	0.0029 (ppm)	25.3126
2/23/2018 22:41:05	R1801196-009	Cr (267.716 nm)	0.0008 (ppm)	81.15	0.0008 (ppm)	32.6640
2/23/2018 22:41:05	R1801196-009	Cu (327.395 nm)	0.0081 (ppm)	10.02	0.0081 (ppm)	598.0479
2/23/2018 22:41:05	R1801196-009	Fe (234.350 nm)	27.5266 o (ppm)	2.93	27.5266 (ppm)	309772.1499
2/23/2018 22:41:05	R1801196-009	K (766.491 nm)	447.7060 o (ppm)	2.15	447.7060 (ppm)	1647051.1419
2/23/2018 22:41:05	R1801196-009	Mg (279.078 nm)	240.0066 o (ppm)	2.88	240.0066 (ppm)	495612.7753
2/23/2018 22:41:05	R1801196-009	Mn (257.610 nm)	2.2803 o (ppm)	2.80	2.2803 (ppm)	740257.4875
2/23/2018 22:41:05	R1801196-009	Mo (202.032 nm)	0.0020 (ppm)	2.09	0.0020 (ppm)	24.0384
2/23/2018 22:41:05	R1801196-009	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:41:05	R1801196-009	Ni (230.299 nm)	-0.0043 u (ppm)	98.69	-0.0043 (ppm)	-54.1667
2/23/2018 22:41:05	R1801196-009	Pb (220.353 nm)	0.0032 (ppm)	28.60	0.0032 (ppm)	13.0629
2/23/2018 22:41:05	R1801196-009	Sb (217.582 nm)	0.0105 (ppm)	43.68	0.0105 (ppm)	15.1695
2/23/2018 22:41:05	R1801196-009	Se (196.026 nm)	0.0032 (ppm)	63.14	0.0032 (ppm)	1.1771
2/23/2018 22:41:05	R1801196-009	Sn (189.925 nm)	-0.0084 u (ppm)	52.58	-0.0084 (ppm)	-9.2630
2/23/2018 22:41:05	R1801196-009	Sr (216.596 nm)	39.5797 o (ppm)	3.23	39.5797 (ppm)	548138.5903
2/23/2018 22:41:05	R1801196-009	Ti (336.122 nm)	0.1580 (ppm)	3.03	0.1580 (ppm)	34938.9233
2/23/2018 22:41:05	R1801196-009	Tl (351.923 nm)	0.6213 (ppm)	5.01	0.6213 (ppm)	1880.2847
2/23/2018 22:41:05	R1801196-009	V (292.401 nm)	0.0034 (ppm)	14.73	0.0034 (ppm)	226.7678
2/23/2018 22:41:05	R1801196-009	Y (360.074 nm)	0.42 (Ratio)	2.06	0.42 (Ratio)	414088.81
2/23/2018 22:41:05	R1801196-009	Y_R (360.074 nm)	0.42 (Ratio)	2.06	0.42 (Ratio)	414973.91
2/23/2018 22:41:05	R1801196-009	Zn (213.857 nm)	0.0230 (ppm)	2.38	0.0230 (ppm)	663.4614
2/23/2018 22:44:26	R1801196-010	Ag (328.068 nm)	-0.0012 u (ppm)	13.21	-0.0012 (ppm)	-209.5681
2/23/2018 22:44:26	R1801196-010	Al (394.401 nm)	0.1046 (ppm)	3.53	0.1046 (ppm)	1579.8143
2/23/2018 22:44:26	R1801196-010	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-1.5377
2/23/2018 22:44:26	R1801196-010	B (249.772 nm)	0.1426 (ppm)	0.51	0.1426 (ppm)	4423.4042
2/23/2018 22:44:26	R1801196-010	Ba (230.424 nm)	2.5271 (ppm)	0.72	2.5271 (ppm)	88335.7037
2/23/2018 22:44:26	R1801196-010	Be (313.107 nm)	0.0001 (ppm)	6.70	0.0001 (ppm)	-358.8679
2/23/2018 22:44:26	R1801196-010	Ca (227.547 nm)	13552.7580 o (ppm)	0.51	13552.7580 (ppm)	947288.3221
2/23/2018 22:44:26	R1801196-010	Cd (214.439 nm)	0.0014 (ppm)	29.17	0.0014 (ppm)	45.4956
2/23/2018 22:44:26	R1801196-010	Co (230.786 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-16.7355
2/23/2018 22:44:26	R1801196-010	Cr (267.716 nm)	-0.0007 u (ppm)	32.84	-0.0007 (ppm)	-40.2997
2/23/2018 22:44:26	R1801196-010	Cu (327.395 nm)	0.0054 (ppm)	9.27	0.0054 (ppm)	406.7807
2/23/2018 22:44:26	R1801196-010	Fe (234.350 nm)	49.9463 o (ppm)	0.55	49.9463 (ppm)	562057.6707
2/23/2018 22:44:26	R1801196-010	K (766.491 nm)	309.6875 o (ppm)	1.26	309.6875 (ppm)	1139298.3915
2/23/2018 22:44:26	R1801196-010	Mg (279.078 nm)	110.2665 o (ppm)	0.76	110.2665 (ppm)	227697.6946
2/23/2018 22:44:26	R1801196-010	Mn (257.610 nm)	1.8114 o (ppm)	0.45	1.8114 (ppm)	588037.5821
2/23/2018 22:44:26	R1801196-010	Mo (202.032 nm)	0.0019 (ppm)	32.95	0.0019 (ppm)	23.1634
2/23/2018 22:44:26	R1801196-010	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:44:26	R1801196-010	Ni (230.299 nm)	-0.0083 u (ppm)	33.55	-0.0083 (ppm)	-82.3366
2/23/2018 22:44:26	R1801196-010	Pb (220.353 nm)	0.0044 (ppm)	58.41	0.0044 (ppm)	15.8622

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:44:26	R1801196-010	Sb (217.582 nm)	0.0055 u (ppm)	> 100.00	0.0055 (ppm)	7.2692
2/23/2018 22:44:26	R1801196-010	Se (196.026 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	-3.7775
2/23/2018 22:44:26	R1801196-010	Sn (189.925 nm)	-0.0076 u (ppm)	67.42	-0.0076 (ppm)	-8.2926
2/23/2018 22:44:26	R1801196-010	Sr (216.596 nm)	27.4346 o (ppm)	0.75	27.4346 (ppm)	379940.6233
2/23/2018 22:44:26	R1801196-010	Ti (336.122 nm)	0.0966 (ppm)	0.09	0.0966 (ppm)	21167.1678
2/23/2018 22:44:26	R1801196-010	Tl (351.923 nm)	0.4787 (ppm)	2.32	0.4787 (ppm)	1452.9439
2/23/2018 22:44:26	R1801196-010	V (292.401 nm)	0.0039 (ppm)	2.48	0.0039 (ppm)	246.7894
2/23/2018 22:44:26	R1801196-010	Y (360.074 nm)	0.50 (Ratio)	1.05	0.50 (Ratio)	490667.18
2/23/2018 22:44:26	R1801196-010	Y_R (360.074 nm)	0.50 (Ratio)	1.05	0.50 (Ratio)	491729.31
2/23/2018 22:44:26	R1801196-010	Zn (213.857 nm)	0.0137 (ppm)	2.33	0.0137 (ppm)	383.2205
2/23/2018 22:47:46	R1801196-011	Ag (328.068 nm)	-0.0005 u (ppm)	10.77	-0.0005 (ppm)	-154.2276
2/23/2018 22:47:46	R1801196-011	Al (394.401 nm)	0.9935 (ppm)	0.11	0.9935 (ppm)	14439.3785
2/23/2018 22:47:46	R1801196-011	As (188.980 nm)	0.0073 (ppm)	71.99	0.0073 (ppm)	4.2174
2/23/2018 22:47:46	R1801196-011	B (249.772 nm)	0.0167 (ppm)	1.05	0.0167 (ppm)	595.8458
2/23/2018 22:47:46	R1801196-011	Ba (230.424 nm)	0.5248 (ppm)	0.48	0.5248 (ppm)	18348.6329
2/23/2018 22:47:46	R1801196-011	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-550.7546
2/23/2018 22:47:46	R1801196-011	Ca (227.547 nm)	3179.8307 o (ppm)	0.06	3179.8307 (ppm)	222264.2752
2/23/2018 22:47:46	R1801196-011	Cd (214.439 nm)	0.0002 (ppm)	94.70	0.0002 (ppm)	20.0660
2/23/2018 22:47:46	R1801196-011	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.3832
2/23/2018 22:47:46	R1801196-011	Cr (267.716 nm)	-0.0004 u (ppm)	19.18	-0.0004 (ppm)	-22.1711
2/23/2018 22:47:46	R1801196-011	Cu (327.395 nm)	0.0008 (ppm)	37.05	0.0008 (ppm)	83.6539
2/23/2018 22:47:46	R1801196-011	Fe (234.350 nm)	0.1055 (ppm)	5.50	0.1055 (ppm)	1206.0683
2/23/2018 22:47:46	R1801196-011	K (766.491 nm)	169.4744 o (ppm)	0.23	169.4744 (ppm)	623471.9086
2/23/2018 22:47:46	R1801196-011	Mg (279.078 nm)	0.0516 (ppm)	29.12	0.0516 (ppm)	102.1590
2/23/2018 22:47:46	R1801196-011	Mn (257.610 nm)	0.0014 (ppm)	13.26	0.0014 (ppm)	470.6180
2/23/2018 22:47:46	R1801196-011	Mo (202.032 nm)	0.0103 (ppm)	2.48	0.0103 (ppm)	111.0139
2/23/2018 22:47:46	R1801196-011	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:47:46	R1801196-011	Ni (230.299 nm)	0.0086 (ppm)	4.10	0.0086 (ppm)	38.3943
2/23/2018 22:47:46	R1801196-011	Pb (220.353 nm)	-0.0011 u (ppm)	76.49	-0.0011 (ppm)	3.1778
2/23/2018 22:47:46	R1801196-011	Sb (217.582 nm)	0.0020 (ppm)	70.38	0.0020 (ppm)	1.6879
2/23/2018 22:47:46	R1801196-011	Se (196.026 nm)	-0.0038 u (ppm)	> 100.00	-0.0038 (ppm)	-5.5208
2/23/2018 22:47:46	R1801196-011	Sn (189.925 nm)	-0.0043 u (ppm)	65.64	-0.0043 (ppm)	-4.2518
2/23/2018 22:47:46	R1801196-011	Sr (216.596 nm)	16.2234 o (ppm)	1.07	16.2234 (ppm)	224674.7089
2/23/2018 22:47:46	R1801196-011	Ti (336.122 nm)	0.0198 (ppm)	2.34	0.0198 (ppm)	3934.7184
2/23/2018 22:47:46	R1801196-011	Tl (351.923 nm)	0.1233 (ppm)	3.90	0.1233 (ppm)	387.6769
2/23/2018 22:47:46	R1801196-011	V (292.401 nm)	0.0018 (ppm)	13.72	0.0018 (ppm)	165.9499
2/23/2018 22:47:46	R1801196-011	Y (360.074 nm)	0.73 (Ratio)	0.50	0.73 (Ratio)	717952.49
2/23/2018 22:47:46	R1801196-011	Y_R (360.074 nm)	0.73 (Ratio)	0.50	0.73 (Ratio)	719428.15
2/23/2018 22:47:46	R1801196-011	Zn (213.857 nm)	0.0017 (ppm)	3.95	0.0017 (ppm)	19.9858
2/23/2018 22:51:07	R1801196-012	Ag (328.068 nm)	-0.0015 u (ppm)	11.24	-0.0015 (ppm)	-235.7257
2/23/2018 22:51:07	R1801196-012	Al (394.401 nm)	0.2304 (ppm)	3.08	0.2304 (ppm)	3400.0956
2/23/2018 22:51:07	R1801196-012	As (188.980 nm)	0.0157 (ppm)	> 100.00	0.0157 (ppm)	12.1014
2/23/2018 22:51:07	R1801196-012	B (249.772 nm)	0.9681 (ppm)	1.57	0.9681 (ppm)	29519.2677
2/23/2018 22:51:07	R1801196-012	Ba (230.424 nm)	0.1071 (ppm)	1.46	0.1071 (ppm)	3747.4736
2/23/2018 22:51:07	R1801196-012	Be (313.107 nm)	0.0002 (ppm)	11.99	0.0002 (ppm)	-292.1695
2/23/2018 22:51:07	R1801196-012	Ca (227.547 nm)	19675.9591 o (ppm)	1.90	19675.9591 (ppm)	1375274.3575
2/23/2018 22:51:07	R1801196-012	Cd (214.439 nm)	0.0011 (ppm)	15.33	0.0011 (ppm)	39.4637
2/23/2018 22:51:07	R1801196-012	Co (230.786 nm)	0.0025 (ppm)	18.56	0.0025 (ppm)	20.6792
2/23/2018 22:51:07	R1801196-012	Cr (267.716 nm)	-0.0017 u (ppm)	25.30	-0.0017 (ppm)	-86.2084
2/23/2018 22:51:07	R1801196-012	Cu (327.395 nm)	0.0087 (ppm)	9.99	0.0087 (ppm)	639.9276
2/23/2018 22:51:07	R1801196-012	Fe (234.350 nm)	30.1851 o (ppm)	1.88	30.1851 (ppm)	339687.5420



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:51:07	R1801196-012	K (766.491 nm)	238.0173 o (ppm)	2.03	238.0173 (ppm)	875632.8516
2/23/2018 22:51:07	R1801196-012	Mg (279.078 nm)	145.0826 o (ppm)	1.85	145.0826 (ppm)	299593.3867
2/23/2018 22:51:07	R1801196-012	Mn (257.610 nm)	3.5675 o (ppm)	1.71	3.5675 (ppm)	1158122.7778
2/23/2018 22:51:07	R1801196-012	Mo (202.032 nm)	0.0020 (ppm)	24.37	0.0020 (ppm)	24.6632
2/23/2018 22:51:07	R1801196-012	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:51:07	R1801196-012	Ni (230.299 nm)	-0.0036 u (ppm)	> 100.00	-0.0036 (ppm)	-49.0631
2/23/2018 22:51:07	R1801196-012	Pb (220.353 nm)	0.0049 (ppm)	42.65	0.0049 (ppm)	16.9012
2/23/2018 22:51:07	R1801196-012	Sb (217.582 nm)	0.0113 (ppm)	31.69	0.0113 (ppm)	16.4227
2/23/2018 22:51:07	R1801196-012	Se (196.026 nm)	-0.0082 u (ppm)	31.45	-0.0082 (ppm)	-9.7339
2/23/2018 22:51:07	R1801196-012	Sn (189.925 nm)	-0.0066 u (ppm)	95.00	-0.0066 (ppm)	-7.0746
2/23/2018 22:51:07	R1801196-012	Sr (216.596 nm)	90.5755 o (ppm)	1.25	90.5755 (ppm)	1254384.9174
2/23/2018 22:51:07	R1801196-012	Ti (336.122 nm)	0.1701 (ppm)	0.85	0.1701 (ppm)	37649.9358
2/23/2018 22:51:07	R1801196-012	Ti (351.923 nm)	0.6631 (ppm)	1.97	0.6631 (ppm)	2005.7374
2/23/2018 22:51:07	R1801196-012	V (292.401 nm)	0.0037 (ppm)	3.95	0.0037 (ppm)	239.4743
2/23/2018 22:51:07	R1801196-012	Y (360.074 nm)	0.42 (Ratio)	2.54	0.42 (Ratio)	417064.94
2/23/2018 22:51:07	R1801196-012	Y_R (360.074 nm)	0.42 (Ratio)	2.54	0.42 (Ratio)	417972.42
2/23/2018 22:51:07	R1801196-012	Zn (213.857 nm)	0.0515 (ppm)	1.58	0.0515 (ppm)	1526.0163
2/23/2018 22:54:27	R1801196-013	Ag (328.068 nm)	-0.0003 u (ppm)	26.99	-0.0003 (ppm)	-139.3411
2/23/2018 22:54:27	R1801196-013	Al (394.401 nm)	0.2135 (ppm)	1.08	0.2135 (ppm)	3155.7283
2/23/2018 22:54:27	R1801196-013	As (188.980 nm)	0.0158 (ppm)	25.72	0.0158 (ppm)	12.1765
2/23/2018 22:54:27	R1801196-013	B (249.772 nm)	0.0577 (ppm)	0.47	0.0577 (ppm)	1842.3754
2/23/2018 22:54:27	R1801196-013	Ba (230.424 nm)	0.4252 (ppm)	0.70	0.4252 (ppm)	14868.6669
2/23/2018 22:54:27	R1801196-013	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-577.1100
2/23/2018 22:54:27	R1801196-013	Ca (227.547 nm)	1109.4922 o (ppm)	0.11	1109.4922 (ppm)	77556.3090
2/23/2018 22:54:27	R1801196-013	Cd (214.439 nm)	0.0003 (ppm)	50.14	0.0003 (ppm)	21.5655
2/23/2018 22:54:27	R1801196-013	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.9261
2/23/2018 22:54:27	R1801196-013	Cr (267.716 nm)	-0.0013 u (ppm)	14.27	-0.0013 (ppm)	-65.5446
2/23/2018 22:54:27	R1801196-013	Cu (327.395 nm)	0.0004 (ppm)	11.52	0.0004 (ppm)	57.0493
2/23/2018 22:54:27	R1801196-013	Fe (234.350 nm)	14.7290 o (ppm)	0.62	14.7290 (ppm)	165762.3283
2/23/2018 22:54:27	R1801196-013	K (766.491 nm)	50.0255 (ppm)	0.34	50.0255 (ppm)	184034.5639
2/23/2018 22:54:27	R1801196-013	Mg (279.078 nm)	19.4754 (ppm)	0.56	19.4754 (ppm)	40212.6488
2/23/2018 22:54:27	R1801196-013	Mn (257.610 nm)	5.4520 o (ppm)	0.75	5.4520 (ppm)	1769872.9452
2/23/2018 22:54:27	R1801196-013	Mo (202.032 nm)	0.0004 (ppm)	88.74	0.0004 (ppm)	7.7530
2/23/2018 22:54:27	R1801196-013	Na (588.995 nm)	386.0779 o (ppm)	0.13	386.0779 (ppm)	20868192.4775
2/23/2018 22:54:27	R1801196-013	Ni (230.299 nm)	-0.0117 u (ppm)	5.42	-0.0117 (ppm)	-106.9652
2/23/2018 22:54:27	R1801196-013	Pb (220.353 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	1.3257
2/23/2018 22:54:27	R1801196-013	Sb (217.582 nm)	0.0018 (ppm)	74.18	0.0018 (ppm)	1.4460
2/23/2018 22:54:27	R1801196-013	Se (196.026 nm)	-0.0050 u (ppm)	> 100.00	-0.0050 (ppm)	-6.6503
2/23/2018 22:54:27	R1801196-013	Sn (189.925 nm)	-0.0050 u (ppm)	41.88	-0.0050 (ppm)	-5.1446
2/23/2018 22:54:27	R1801196-013	Sr (216.596 nm)	5.7234 o (ppm)	1.31	5.7234 (ppm)	79259.9349
2/23/2018 22:54:27	R1801196-013	Ti (336.122 nm)	0.0095 (ppm)	2.00	0.0095 (ppm)	1613.1254
2/23/2018 22:54:27	R1801196-013	Ti (351.923 nm)	0.0394 (ppm)	4.42	0.0394 (ppm)	136.1916
2/23/2018 22:54:27	R1801196-013	V (292.401 nm)	0.0012 (ppm)	19.65	0.0012 (ppm)	145.5926
2/23/2018 22:54:27	R1801196-013	Y (360.074 nm)	0.83 (Ratio)	0.41	0.83 (Ratio)	823353.15
2/23/2018 22:54:27	R1801196-013	Y_R (360.074 nm)	0.83 (Ratio)	0.41	0.83 (Ratio)	825017.30
2/23/2018 22:54:27	R1801196-013	Zn (213.857 nm)	0.0053 (ppm)	5.58	0.0053 (ppm)	129.3308
2/23/2018 22:57:48	R1801196-014	Ag (328.068 nm)	-0.0006 u (ppm)	16.00	-0.0006 (ppm)	-159.2811
2/23/2018 22:57:48	R1801196-014	Al (394.401 nm)	0.3068 (ppm)	0.75	0.3068 (ppm)	4505.3172
2/23/2018 22:57:48	R1801196-014	As (188.980 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	-0.2103
2/23/2018 22:57:48	R1801196-014	B (249.772 nm)	0.0216 (ppm)	1.05	0.0216 (ppm)	743.8187
2/23/2018 22:57:48	R1801196-014	Ba (230.424 nm)	0.8856 (ppm)	1.28	0.8856 (ppm)	30960.9476

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 22:57:48	R1801196-014	Be (313.107 nm)	0.0000 (ppm)	40.66	0.0000 (ppm)	-549.0978
2/23/2018 22:57:48	R1801196-014	Ca (227.547 nm)	3585.0423 o (ppm)	0.62	3585.0423 (ppm)	250586.8614
2/23/2018 22:57:48	R1801196-014	Cd (214.439 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.9695
2/23/2018 22:57:48	R1801196-014	Co (230.786 nm)	0.0006 (ppm)	78.02	0.0006 (ppm)	0.6422
2/23/2018 22:57:48	R1801196-014	Cr (267.716 nm)	-0.0003 u (ppm)	41.53	-0.0003 (ppm)	-19.4776
2/23/2018 22:57:48	R1801196-014	Cu (327.395 nm)	0.0029 (ppm)	8.30	0.0029 (ppm)	230.7136
2/23/2018 22:57:48	R1801196-014	Fe (234.350 nm)	3.4932 (ppm)	1.27	3.4932 (ppm)	39327.3047
2/23/2018 22:57:48	R1801196-014	K (766.491 nm)	157.7316 o (ppm)	0.36	157.7316 (ppm)	580271.6599
2/23/2018 22:57:48	R1801196-014	Mg (279.078 nm)	9.0874 (ppm)	1.22	9.0874 (ppm)	18761.2571
2/23/2018 22:57:48	R1801196-014	Mn (257.610 nm)	0.3687 (ppm)	1.21	0.3687 (ppm)	119706.9115
2/23/2018 22:57:48	R1801196-014	Mo (202.032 nm)	0.0043 (ppm)	7.71	0.0043 (ppm)	48.9566
2/23/2018 22:57:48	R1801196-014	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 22:57:48	R1801196-014	Ni (230.299 nm)	0.0055 (ppm)	17.33	0.0055 (ppm)	15.6997
2/23/2018 22:57:48	R1801196-014	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.1099
2/23/2018 22:57:48	R1801196-014	Sb (217.582 nm)	0.0039 (ppm)	86.69	0.0039 (ppm)	4.7346
2/23/2018 22:57:48	R1801196-014	Se (196.026 nm)	-0.0061 u (ppm)	33.22	-0.0061 (ppm)	-7.7276
2/23/2018 22:57:48	R1801196-014	Sn (189.925 nm)	-0.0037 u (ppm)	49.23	-0.0037 (ppm)	-3.4786
2/23/2018 22:57:48	R1801196-014	Sr (216.596 nm)	12.6967 o (ppm)	0.62	12.6967 (ppm)	175832.8590
2/23/2018 22:57:48	R1801196-014	Ti (336.122 nm)	0.0198 (ppm)	1.22	0.0198 (ppm)	3928.6866
2/23/2018 22:57:48	R1801196-014	Ti (351.923 nm)	0.1393 (ppm)	1.60	0.1393 (ppm)	435.7571
2/23/2018 22:57:48	R1801196-014	V (292.401 nm)	0.0024 (ppm)	7.10	0.0024 (ppm)	191.1252
2/23/2018 22:57:48	R1801196-014	Y (360.074 nm)	0.71 (Ratio)	0.62	0.71 (Ratio)	702913.15
2/23/2018 22:57:48	R1801196-014	Y_R (360.074 nm)	0.71 (Ratio)	0.62	0.71 (Ratio)	704382.27
2/23/2018 22:57:48	R1801196-014	Zn (213.857 nm)	0.0026 (ppm)	7.33	0.0026 (ppm)	48.2509
2/23/2018 23:01:09	Continuing Calibration Verification 1	Ag (328.068 nm)	0.4735 (ppm)	0.46	0.4735 (ppm)	36655.6733
2/23/2018 23:01:09	Continuing Calibration Verification 1	Al (394.401 nm)	9.4904 (ppm)	0.19	9.4904 (ppm)	137365.5113
2/23/2018 23:01:09	Continuing Calibration Verification 1	As (188.980 nm)	0.9389 (ppm)	1.32	0.9389 (ppm)	876.6310
2/23/2018 23:01:09	Continuing Calibration Verification 1	B (249.772 nm)	2.4156 (ppm)	0.48	2.4156 (ppm)	73529.3125
2/23/2018 23:01:09	Continuing Calibration Verification 1	Ba (230.424 nm)	10.1136 (ppm)	0.60	10.1136 (ppm)	353515.8265
2/23/2018 23:01:09	Continuing Calibration Verification 1	Be (313.107 nm)	0.2518 (ppm)	0.39	0.2518 (ppm)	379087.1414
2/23/2018 23:01:09	Continuing Calibration Verification 1	Ca (227.547 nm)	23.7522 (ppm)	0.24	23.7522 (ppm)	1667.6429
2/23/2018 23:01:09	Continuing Calibration Verification 1	Cd (214.439 nm)	0.4848 (ppm)	0.89	0.4848 (ppm)	10408.4569
2/23/2018 23:01:09	Continuing Calibration Verification 1	Co (230.786 nm)	2.5289 (ppm)	0.73	2.5289 (ppm)	26922.7610
2/23/2018 23:01:09	Continuing Calibration Verification 1	Cr (267.716 nm)	0.5242 (ppm)	0.69	0.5242 (ppm)	25354.3282
2/23/2018 23:01:09	Continuing Calibration Verification 1	Cu (327.395 nm)	1.2071 (ppm)	0.21	1.2071 (ppm)	84873.9209
2/23/2018 23:01:09	Continuing Calibration Verification 1	Fe (234.350 nm)	4.9958 (ppm)	0.66	4.9958 (ppm)	56236.3234
2/23/2018 23:01:09	Continuing Calibration Verification 1	K (766.491 nm)	24.5673 (ppm)	0.34	24.5673 (ppm)	90376.8902
2/23/2018 23:01:09	Continuing Calibration Verification 1	Mg (279.078 nm)	24.6294 (ppm)	0.58	24.6294 (ppm)	50855.6798
2/23/2018 23:01:09	Continuing Calibration Verification 1	Mn (257.610 nm)	0.7612 (ppm)	0.61	0.7612 (ppm)	247117.6865
2/23/2018 23:01:09	Continuing Calibration Verification 1	Mo (202.032 nm)	2.3905 (ppm)	0.74	2.3905 (ppm)	25035.6655
2/23/2018 23:01:09	Continuing Calibration Verification 1	Na (588.995 nm)	25.2636 (ppm)	0.38	25.2636 (ppm)	1361248.0974
2/23/2018 23:01:09	Continuing Calibration Verification 1	Ni (230.299 nm)	2.0170 (ppm)	0.78	2.0170 (ppm)	14369.1552
2/23/2018 23:01:09	Continuing Calibration Verification 1	Pb (220.353 nm)	0.4906 (ppm)	1.04	0.4906 (ppm)	1124.4493
2/23/2018 23:01:09	Continuing Calibration Verification 1	Sb (217.582 nm)	4.7782 (ppm)	0.41	4.7782 (ppm)	7602.8116
2/23/2018 23:01:09	Continuing Calibration Verification 1	Se (196.026 nm)	0.4700 (ppm)	0.43	0.4700 (ppm)	445.2535
2/23/2018 23:01:09	Continuing Calibration Verification 1	Sn (189.925 nm)	4.8999 (ppm)	0.63	4.8999 (ppm)	6037.8247
2/23/2018 23:01:09	Continuing Calibration Verification 1	Sr (216.596 nm)	2.5291 (ppm)	0.98	2.5291 (ppm)	35020.9791
2/23/2018 23:01:09	Continuing Calibration Verification 1	Ti (336.122 nm)	2.4732 (ppm)	0.10	2.4732 (ppm)	554627.3897
2/23/2018 23:01:09	Continuing Calibration Verification 1	Ti (351.923 nm)	0.9685 (ppm)	0.42	0.9685 (ppm)	2920.9717
2/23/2018 23:01:09	Continuing Calibration Verification 1	V (292.401 nm)	2.4866 (ppm)	0.51	2.4866 (ppm)	95202.7174
2/23/2018 23:01:09	Continuing Calibration Verification 1	Y (360.074 nm)	0.97 (Ratio)	0.45	0.97 (Ratio)	957976.56

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:01:09	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.45	0.97 (Ratio)	959768.42
2/23/2018 23:01:09	Continuing Calibration Verification1	Zn (213.857 nm)	0.9775 (ppm)	0.72	0.9775 (ppm)	29500.6839
2/23/2018 23:04:29	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u (ppm)	57.04	-0.0002 (ppm)	-127.9716
2/23/2018 23:04:29	Continuing Calibration Blank1	Al (394.401 nm)	0.0032 (ppm)	15.58	0.0032 (ppm)	112.5056
2/23/2018 23:04:29	Continuing Calibration Blank1	As (188.980 nm)	0.0010 (ppm)	21.20	0.0010 (ppm)	-1.6821
2/23/2018 23:04:29	Continuing Calibration Blank1	B (249.772 nm)	0.0016 (ppm)	18.80	0.0016 (ppm)	135.5789
2/23/2018 23:04:29	Continuing Calibration Blank1	Ba (230.424 nm)	0.0014 (ppm)	1.22	0.0014 (ppm)	51.9653
2/23/2018 23:04:29	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	6.35	0.0000 (ppm)	-500.9358
2/23/2018 23:04:29	Continuing Calibration Blank1	Ca (227.547 nm)	0.0238 (ppm)	46.41	0.0238 (ppm)	9.1274
2/23/2018 23:04:29	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	16.7480
2/23/2018 23:04:29	Continuing Calibration Blank1	Co (230.786 nm)	0.0002 (ppm)	30.85	0.0002 (ppm)	-3.0214
2/23/2018 23:04:29	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.5733
2/23/2018 23:04:29	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 (ppm)	37.10	0.0001 (ppm)	36.2236
2/23/2018 23:04:29	Continuing Calibration Blank1	Fe (234.350 nm)	0.0014 (ppm)	6.98	0.0014 (ppm)	35.2336
2/23/2018 23:04:29	Continuing Calibration Blank1	K (766.491 nm)	0.0227 (ppm)	35.39	0.0227 (ppm)	80.5465
2/23/2018 23:04:29	Continuing Calibration Blank1	Mg (279.078 nm)	0.0032 (ppm)	45.58	0.0032 (ppm)	2.2842
2/23/2018 23:04:29	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001 (ppm)	13.54	0.0001 (ppm)	40.2677
2/23/2018 23:04:29	Continuing Calibration Blank1	Mo (202.032 nm)	0.0025 (ppm)	9.13	0.0025 (ppm)	29.3411
2/23/2018 23:04:29	Continuing Calibration Blank1	Na (588.995 nm)	0.0697 (ppm)	7.72	0.0697 (ppm)	-821.6183
2/23/2018 23:04:29	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-25.8378
2/23/2018 23:04:29	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0007 u (ppm)	85.03	-0.0007 (ppm)	4.0861
2/23/2018 23:04:29	Continuing Calibration Blank1	Sb (217.582 nm)	0.0034 (ppm)	30.08	0.0034 (ppm)	3.9305
2/23/2018 23:04:29	Continuing Calibration Blank1	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.6317
2/23/2018 23:04:29	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	0.1486
2/23/2018 23:04:29	Continuing Calibration Blank1	Sr (216.596 nm)	0.0007 (ppm)	28.22	0.0007 (ppm)	4.6017
2/23/2018 23:04:29	Continuing Calibration Blank1	Ti (336.122 nm)	0.0009 (ppm)	5.32	0.0009 (ppm)	-314.5206
2/23/2018 23:04:29	Continuing Calibration Blank1	Tl (351.923 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	19.5884
2/23/2018 23:04:29	Continuing Calibration Blank1	V (292.401 nm)	0.0002 (ppm)	95.46	0.0002 (ppm)	104.5740
2/23/2018 23:04:29	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	1008086.50
2/23/2018 23:04:29	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	1009884.92
2/23/2018 23:04:29	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001 (ppm)	49.09	0.0001 (ppm)	-27.2327
2/23/2018 23:07:50	R1801196-015	Ag (328.068 nm)	-0.0003 u (ppm)	17.13	-0.0003 (ppm)	-137.9092
2/23/2018 23:07:50	R1801196-015	Al (394.401 nm)	0.0620 (ppm)	2.74	0.0620 (ppm)	963.4349
2/23/2018 23:07:50	R1801196-015	As (188.980 nm)	0.0071 (ppm)	17.63	0.0071 (ppm)	4.0372
2/23/2018 23:07:50	R1801196-015	B (249.772 nm)	0.0277 (ppm)	0.88	0.0277 (ppm)	930.8586
2/23/2018 23:07:50	R1801196-015	Ba (230.424 nm)	0.4163 (ppm)	0.19	0.4163 (ppm)	14556.4882
2/23/2018 23:07:50	R1801196-015	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-574.2708
2/23/2018 23:07:50	R1801196-015	Ca (227.547 nm)	656.2944 u (ppm)	0.05	656.2944 (ppm)	45879.6857
2/23/2018 23:07:50	R1801196-015	Cd (214.439 nm)	0.0005 (ppm)	13.01	0.0005 (ppm)	25.8872
2/23/2018 23:07:50	R1801196-015	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-3.9510
2/23/2018 23:07:50	R1801196-015	Cr (267.716 nm)	-0.0009 u (ppm)	13.13	-0.0009 (ppm)	-49.6421
2/23/2018 23:07:50	R1801196-015	Cu (327.395 nm)	0.0003 (ppm)	29.32	0.0003 (ppm)	49.6108
2/23/2018 23:07:50	R1801196-015	Fe (234.350 nm)	23.4391 u (ppm)	0.49	23.4391 (ppm)	263776.2920
2/23/2018 23:07:50	R1801196-015	K (766.491 nm)	27.5607 (ppm)	0.32	27.5607 (ppm)	101389.4386
2/23/2018 23:07:50	R1801196-015	Mg (279.078 nm)	13.8432 (ppm)	0.43	13.8432 (ppm)	28582.1305
2/23/2018 23:07:50	R1801196-015	Mn (257.610 nm)	3.4132 u (ppm)	0.43	3.4132 (ppm)	1108036.1727
2/23/2018 23:07:50	R1801196-015	Mo (202.032 nm)	0.0063 (ppm)	2.19	0.0063 (ppm)	69.7752
2/23/2018 23:07:50	R1801196-015	Na (588.995 nm)	312.8172 u (ppm)	0.21	312.8172 (ppm)	16907451.0031
2/23/2018 23:07:50	R1801196-015	Ni (230.299 nm)	-0.0054 u (ppm)	10.03	-0.0054 (ppm)	-61.7485
2/23/2018 23:07:50	R1801196-015	Pb (220.353 nm)	-0.0013 u (ppm)	53.94	-0.0013 (ppm)	2.6523
2/23/2018 23:07:50	R1801196-015	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.0344

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:07:50	R1801196-015	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.9381
2/23/2018 23:07:50	R1801196-015	Sn (189.925 nm)	-0.0026 u (ppm)	47.04	-0.0026 (ppm)	-2.0907
2/23/2018 23:07:50	R1801196-015	Sr (216.596 nm)	6.0704 o (ppm)	0.71	6.0704 (ppm)	84065.3160
2/23/2018 23:07:50	R1801196-015	Ti (336.122 nm)	0.0043 (ppm)	1.33	0.0043 (ppm)	450.1272
2/23/2018 23:07:50	R1801196-015	Tl (351.923 nm)	0.0248 (ppm)	4.40	0.0248 (ppm)	92.5059
2/23/2018 23:07:50	R1801196-015	V (292.401 nm)	0.0011 (ppm)	18.42	0.0011 (ppm)	140.6318
2/23/2018 23:07:50	R1801196-015	Y (360.074 nm)	0.86 (Ratio)	0.38	0.86 (Ratio)	854999.45
2/23/2018 23:07:50	R1801196-015	Y_R (360.074 nm)	0.86 (Ratio)	0.38	0.86 (Ratio)	856718.87
2/23/2018 23:07:50	R1801196-015	Zn (213.857 nm)	0.0046 (ppm)	3.12	0.0046 (ppm)	107.5624
2/23/2018 23:11:11	R1801196-016	Ag (328.068 nm)	-0.0003 u (ppm)	10.99	-0.0003 (ppm)	-137.2100
2/23/2018 23:11:11	R1801196-016	Al (394.401 nm)	0.2230 (ppm)	0.28	0.2230 (ppm)	3292.7111
2/23/2018 23:11:11	R1801196-016	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-1.7291
2/23/2018 23:11:11	R1801196-016	B (249.772 nm)	0.0178 (ppm)	0.94	0.0178 (ppm)	628.8189
2/23/2018 23:11:11	R1801196-016	Ba (230.424 nm)	0.0444 (ppm)	0.52	0.0444 (ppm)	1557.0317
2/23/2018 23:11:11	R1801196-016	Be (313.107 nm)	0.0000 (ppm)	51.37	0.0000 (ppm)	-560.3864
2/23/2018 23:11:11	R1801196-016	Ca (227.547 nm)	209.0038 o (ppm)	0.06	209.0038 (ppm)	14615.9518
2/23/2018 23:11:11	R1801196-016	Cd (214.439 nm)	-0.0001 u (ppm)	66.34	-0.0001 (ppm)	13.2648
2/23/2018 23:11:11	R1801196-016	Co (230.786 nm)	0.0005 (ppm)	88.77	0.0005 (ppm)	-0.2789
2/23/2018 23:11:11	R1801196-016	Cr (267.716 nm)	0.0002 (ppm)	58.39	0.0002 (ppm)	3.4660
2/23/2018 23:11:11	R1801196-016	Cu (327.395 nm)	0.0022 (ppm)	1.76	0.0022 (ppm)	179.2264
2/23/2018 23:11:11	R1801196-016	Fe (234.350 nm)	0.3340 (ppm)	0.32	0.3340 (ppm)	3778.0774
2/23/2018 23:11:11	R1801196-016	K (766.491 nm)	8.2209 (ppm)	0.38	8.2209 (ppm)	30240.5342
2/23/2018 23:11:11	R1801196-016	Mg (279.078 nm)	25.6301 (ppm)	0.20	25.6301 (ppm)	52922.2578
2/23/2018 23:11:11	R1801196-016	Mn (257.610 nm)	0.0255 (ppm)	0.36	0.0255 (ppm)	8275.4783
2/23/2018 23:11:11	R1801196-016	Mo (202.032 nm)	0.0029 (ppm)	4.15	0.0029 (ppm)	33.5708
2/23/2018 23:11:11	R1801196-016	Na (588.995 nm)	50.9055 (ppm)	0.40	50.9055 (ppm)	2747542.7834
2/23/2018 23:11:11	R1801196-016	Ni (230.299 nm)	-0.0057 u (ppm)	6.29	-0.0057 (ppm)	-63.6930
2/23/2018 23:11:11	R1801196-016	Pb (220.353 nm)	-0.0018 u (ppm)	28.62	-0.0018 (ppm)	1.5381
2/23/2018 23:11:11	R1801196-016	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.5249
2/23/2018 23:11:11	R1801196-016	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.6281
2/23/2018 23:11:11	R1801196-016	Sn (189.925 nm)	-0.0018 u (ppm)	89.39	-0.0018 (ppm)	-1.1812
2/23/2018 23:11:11	R1801196-016	Sr (216.596 nm)	0.5660 (ppm)	0.37	0.5660 (ppm)	7834.3462
2/23/2018 23:11:11	R1801196-016	Ti (336.122 nm)	0.0058 (ppm)	2.11	0.0058 (ppm)	792.1408
2/23/2018 23:11:11	R1801196-016	Tl (351.923 nm)	0.0047 (ppm)	28.54	0.0047 (ppm)	32.1813
2/23/2018 23:11:11	R1801196-016	V (292.401 nm)	0.0010 (ppm)	11.60	0.0010 (ppm)	135.2925
2/23/2018 23:11:11	R1801196-016	Y (360.074 nm)	0.94 (Ratio)	0.87	0.94 (Ratio)	926474.81
2/23/2018 23:11:11	R1801196-016	Y_R (360.074 nm)	0.94 (Ratio)	0.87	0.94 (Ratio)	928271.15
2/23/2018 23:11:11	R1801196-016	Zn (213.857 nm)	0.0038 (ppm)	1.59	0.0038 (ppm)	83.7535
2/23/2018 23:14:32	R1801196-017	Ag (328.068 nm)	-0.0017 u (ppm)	18.71	-0.0017 (ppm)	-246.0255
2/23/2018 23:14:32	R1801196-017	Al (394.401 nm)	0.1459 (ppm)	6.91	0.1459 (ppm)	2177.6576
2/23/2018 23:14:32	R1801196-017	As (188.980 nm)	0.0064 u (ppm)	> 100.00	0.0064 (ppm)	3.3212
2/23/2018 23:14:32	R1801196-017	B (249.772 nm)	0.2362 (ppm)	0.39	0.2362 (ppm)	7267.6098
2/23/2018 23:14:32	R1801196-017	Ba (230.424 nm)	0.1126 (ppm)	0.35	0.1126 (ppm)	3941.9979
2/23/2018 23:14:32	R1801196-017	Be (313.107 nm)	0.0002 (ppm)	7.97	0.0002 (ppm)	-260.3791
2/23/2018 23:14:32	R1801196-017	Ca (227.547 nm)	20885.3114 o (ppm)	0.88	20885.3114 (ppm)	1459803.0059
2/23/2018 23:14:32	R1801196-017	Cd (214.439 nm)	0.0019 (ppm)	10.89	0.0019 (ppm)	56.5832
2/23/2018 23:14:32	R1801196-017	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-7.5903
2/23/2018 23:14:32	R1801196-017	Cr (267.716 nm)	-0.0016 u (ppm)	25.43	-0.0016 (ppm)	-80.6420
2/23/2018 23:14:32	R1801196-017	Cu (327.395 nm)	0.0092 (ppm)	3.86	0.0092 (ppm)	676.6940
2/23/2018 23:14:32	R1801196-017	Fe (234.350 nm)	40.5129 o (ppm)	0.53	40.5129 (ppm)	455905.2182
2/23/2018 23:14:32	R1801196-017	K (766.491 nm)	282.5781 o (ppm)	1.81	282.5781 (ppm)	1039566.2312

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:14:32	R1801196-017	Mg (279.078 nm)	134.3079 o (ppm)	0.73	134.3079 (ppm)	277343.5102
2/23/2018 23:14:32	R1801196-017	Mn (257.610 nm)	2.2621 o (ppm)	0.52	2.2621 (ppm)	734338.2590
2/23/2018 23:14:32	R1801196-017	Mo (202.032 nm)	0.0020 (ppm)	20.95	0.0020 (ppm)	24.3083
2/23/2018 23:14:32	R1801196-017	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 23:14:32	R1801196-017	Ni (230.299 nm)	-0.0075 u (ppm)	27.36	-0.0075 (ppm)	-76.5474
2/23/2018 23:14:32	R1801196-017	Pb (220.353 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	9.3272
2/23/2018 23:14:32	R1801196-017	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.3710
2/23/2018 23:14:32	R1801196-017	Se (196.026 nm)	-0.0043 u (ppm)	> 100.00	-0.0043 (ppm)	-5.9709
2/23/2018 23:14:32	R1801196-017	Sn (189.925 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	-2.5416
2/23/2018 23:14:32	R1801196-017	Sr (216.596 nm)	94.8145 o (ppm)	2.08	94.8145 (ppm)	1313091.6724
2/23/2018 23:14:32	R1801196-017	Ti (336.122 nm)	0.1907 (ppm)	0.17	0.1907 (ppm)	42279.3013
2/23/2018 23:14:32	R1801196-017	Tl (351.923 nm)	0.7051 (ppm)	0.41	0.7051 (ppm)	2131.5843
2/23/2018 23:14:32	R1801196-017	V (292.401 nm)	0.0047 (ppm)	6.86	0.0047 (ppm)	279.5281
2/23/2018 23:14:32	R1801196-017	Y (360.074 nm)	0.42 (Ratio)	1.58	0.42 (Ratio)	412574.39
2/23/2018 23:14:32	R1801196-017	Y_R (360.074 nm)	0.42 (Ratio)	1.58	0.42 (Ratio)	413477.50
2/23/2018 23:14:32	R1801196-017	Zn (213.857 nm)	0.0261 (ppm)	1.51	0.0261 (ppm)	757.0507
2/23/2018 23:17:53	R1801196-018	Ag (328.068 nm)	-0.0018 u (ppm)	21.96	-0.0018 (ppm)	-255.6218
2/23/2018 23:17:53	R1801196-018	Al (394.401 nm)	0.4121 (ppm)	1.69	0.4121 (ppm)	6028.8331
2/23/2018 23:17:53	R1801196-018	As (188.980 nm)	0.0130 u (ppm)	> 100.00	0.0130 (ppm)	9.5338
2/23/2018 23:17:53	R1801196-018	B (249.772 nm)	0.2702 (ppm)	0.24	0.2702 (ppm)	8302.4170
2/23/2018 23:17:53	R1801196-018	Ba (230.424 nm)	22.1990 o (ppm)	0.28	22.1990 (ppm)	775950.2151
2/23/2018 23:17:53	R1801196-018	Be (313.107 nm)	0.0003 (ppm)	3.45	0.0003 (ppm)	-188.0648
2/23/2018 23:17:53	R1801196-018	Ca (227.547 nm)	25480.7627 o (ppm)	0.35	25480.7627 (ppm)	1781005.7517
2/23/2018 23:17:53	R1801196-018	Cd (214.439 nm)	0.0025 (ppm)	38.88	0.0025 (ppm)	70.0596
2/23/2018 23:17:53	R1801196-018	Co (230.786 nm)	-0.0016 u (ppm)	10.96	-0.0016 (ppm)	-22.5888
2/23/2018 23:17:53	R1801196-018	Cr (267.716 nm)	-0.0005 u (ppm)	76.79	-0.0005 (ppm)	-29.9934
2/23/2018 23:17:53	R1801196-018	Cu (327.395 nm)	0.0133 (ppm)	5.82	0.0133 (ppm)	963.9605
2/23/2018 23:17:53	R1801196-018	Fe (234.350 nm)	59.4669 o (ppm)	0.27	59.4669 (ppm)	669191.1204
2/23/2018 23:17:53	R1801196-018	K (766.491 nm)	530.8381 o (ppm)	1.39	530.8381 (ppm)	1952883.8337
2/23/2018 23:17:53	R1801196-018	Mg (279.078 nm)	93.8462 o (ppm)	0.36	93.8462 (ppm)	193789.5327
2/23/2018 23:17:53	R1801196-018	Mn (257.610 nm)	2.3104 o (ppm)	0.19	2.3104 (ppm)	750035.5914
2/23/2018 23:17:53	R1801196-018	Mo (202.032 nm)	0.0024 (ppm)	46.72	0.0024 (ppm)	28.4224
2/23/2018 23:17:53	R1801196-018	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 23:17:53	R1801196-018	Ni (230.299 nm)	-0.0120 u (ppm)	23.22	-0.0120 (ppm)	-109.0511
2/23/2018 23:17:53	R1801196-018	Pb (220.353 nm)	0.0126 (ppm)	68.41	0.0126 (ppm)	34.4106
2/23/2018 23:17:53	R1801196-018	Sb (217.582 nm)	0.0033 u (ppm)	> 100.00	0.0033 (ppm)	3.8054
2/23/2018 23:17:53	R1801196-018	Se (196.026 nm)	0.0053 u (ppm)	> 100.00	0.0053 (ppm)	3.1690
2/23/2018 23:17:53	R1801196-018	Sn (189.925 nm)	-0.0071 u (ppm)	> 100.00	-0.0071 (ppm)	-7.6997
2/23/2018 23:17:53	R1801196-018	Sr (216.596 nm)	30.8218 o (ppm)	0.64	30.8218 (ppm)	426849.4686
2/23/2018 23:17:53	R1801196-018	Ti (336.122 nm)	0.2667 (ppm)	0.24	0.2667 (ppm)	59339.1787
2/23/2018 23:17:53	R1801196-018	Tl (351.923 nm)	0.8545 (ppm)	1.87	0.8545 (ppm)	2579.2856
2/23/2018 23:17:53	R1801196-018	V (292.401 nm)	0.0059 (ppm)	9.66	0.0059 (ppm)	323.2798
2/23/2018 23:17:53	R1801196-018	Y (360.074 nm)	0.40 (Ratio)	1.18	0.40 (Ratio)	396332.90
2/23/2018 23:17:53	R1801196-018	Y_R (360.074 nm)	0.40 (Ratio)	1.18	0.40 (Ratio)	397211.43
2/23/2018 23:17:53	R1801196-018	Zn (213.857 nm)	0.0223 (ppm)	1.47	0.0223 (ppm)	643.7069
2/23/2018 23:21:13	R1801411-001	Ag (328.068 nm)	0.0003 (ppm)	65.81	0.0003 (ppm)	94.6857
2/23/2018 23:21:13	R1801411-001	Al (394.401 nm)	0.7923 (ppm)	0.19	0.7923 (ppm)	11528.1321
2/23/2018 23:21:13	R1801411-001	As (188.980 nm)	0.2897 (ppm)	1.56	0.2897 (ppm)	268.6387
2/23/2018 23:21:13	R1801411-001	B (249.772 nm)	20.7351 o (ppm)	0.46	20.7351 (ppm)	630495.1351
2/23/2018 23:21:13	R1801411-001	Be (230.424 nm)	1.4940 (ppm)	0.96	1.4940 (ppm)	52225.7876
2/23/2018 23:21:13	R1801411-001	Be (313.107 nm)	-0.0001 u (ppm)	19.39	-0.0001 (ppm)	-671.3853

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:21:13	R1801411-001	Ca (227.547 nm)	116.6996 o (ppm)	1.99	116.6996 (ppm)	8164.2794
2/23/2018 23:21:13	R1801411-001	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.3405
2/23/2018 23:21:13	R1801411-001	Co (230.786 nm)	0.0355 (ppm)	2.25	0.0355 (ppm)	372.7296
2/23/2018 23:21:13	R1801411-001	Cr (267.716 nm)	0.3930 (ppm)	0.77	0.3930 (ppm)	19006.5150
2/23/2018 23:21:13	R1801411-001	Cu (327.395 nm)	0.0118 (ppm)	1.15	0.0118 (ppm)	858.2885
2/23/2018 23:21:13	R1801411-001	Fe (234.350 nm)	4.4319 (ppm)	0.84	4.4319 (ppm)	49891.1325
2/23/2018 23:21:13	R1801411-001	K (766.491 nm)	1479.0582 o (ppm)	0.60	1479.0582 (ppm)	5441266.6247
2/23/2018 23:21:13	R1801411-001	Mg (279.078 nm)	177.9649 o (ppm)	0.80	177.9649 (ppm)	367495.8808
2/23/2018 23:21:13	R1801411-001	Mn (257.610 nm)	0.1460 (ppm)	0.71	0.1460 (ppm)	47403.0810
2/23/2018 23:21:13	R1801411-001	Mo (202.032 nm)	0.0096 (ppm)	3.34	0.0096 (ppm)	103.8623
2/23/2018 23:21:13	R1801411-001	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 23:21:13	R1801411-001	Ni (230.299 nm)	0.1646 (ppm)	2.96	0.1646 (ppm)	1151.1775
2/23/2018 23:21:13	R1801411-001	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.7867
2/23/2018 23:21:13	R1801411-001	Sb (217.582 nm)	0.0120 (ppm)	6.08	0.0120 (ppm)	17.5368
2/23/2018 23:21:13	R1801411-001	Se (196.026 nm)	-0.0031 u (ppm)	> 100.00	-0.0031 (ppm)	-4.8741
2/23/2018 23:21:13	R1801411-001	Sn (189.925 nm)	0.0258 (ppm)	11.36	0.0258 (ppm)	32.8934
2/23/2018 23:21:13	R1801411-001	Sr (216.596 nm)	1.6733 (ppm)	1.78	1.6733 (ppm)	23169.3960
2/23/2018 23:21:13	R1801411-001	Ti (336.122 nm)	0.4067 (ppm)	0.39	0.4067 (ppm)	90764.1717
2/23/2018 23:21:13	R1801411-001	Tl (351.923 nm)	-0.0042 u (ppm)	53.96	-0.0042 (ppm)	5.5841
2/23/2018 23:21:13	R1801411-001	V (292.401 nm)	0.0847 (ppm)	0.51	0.0847 (ppm)	3337.4276
2/23/2018 23:21:13	R1801411-001	Y (360.074 nm)	0.66 (Ratio)	0.42	0.66 (Ratio)	654706.13
2/23/2018 23:21:13	R1801411-001	Y_R (360.074 nm)	0.66 (Ratio)	0.42	0.66 (Ratio)	656127.72
2/23/2018 23:21:13	R1801411-001	Zn (213.857 nm)	0.0917 (ppm)	1.21	0.0917 (ppm)	2740.4863
2/23/2018 23:24:34	R1801411-002	Ag (328.068 nm)	0.0012 (ppm)	13.49	0.0012 (ppm)	-21.1938
2/23/2018 23:24:34	R1801411-002	Al (394.401 nm)	2.6158 (ppm)	0.21	2.6158 (ppm)	37909.3774
2/23/2018 23:24:34	R1801411-002	As (188.980 nm)	0.5892 (ppm)	0.86	0.5892 (ppm)	549.1330
2/23/2018 23:24:34	R1801411-002	B (249.772 nm)	43.9264 o (ppm)	0.20	43.9264 (ppm)	1335580.1659
2/23/2018 23:24:34	R1801411-002	Ba (230.424 nm)	0.8849 (ppm)	1.37	0.8849 (ppm)	30934.2516
2/23/2018 23:24:34	R1801411-002	Be (313.107 nm)	0.0000 (ppm)	53.71	0.0000 (ppm)	-599.1444
2/23/2018 23:24:34	R1801411-002	Ca (227.547 nm)	388.9240 o (ppm)	0.24	388.9240 (ppm)	27191.6177
2/23/2018 23:24:34	R1801411-002	Cd (214.439 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	20.3424
2/23/2018 23:24:34	R1801411-002	Co (230.786 nm)	0.0723 (ppm)	1.67	0.0723 (ppm)	763.9901
2/23/2018 23:24:34	R1801411-002	Cr (267.716 nm)	0.8188 (ppm)	0.70	0.8188 (ppm)	39602.5833
2/23/2018 23:24:34	R1801411-002	Cu (327.395 nm)	0.0463 (ppm)	0.56	0.0463 (ppm)	3284.8354
2/23/2018 23:24:34	R1801411-002	Fe (234.350 nm)	10.4094 (ppm)	0.83	10.4094 (ppm)	117154.1720
2/23/2018 23:24:34	R1801411-002	K (766.491 nm)	3959.4461 o (ppm)	0.80	3959.4461 (ppm)	14566303.0896
2/23/2018 23:24:34	R1801411-002	Mg (279.078 nm)	313.1804 o (ppm)	0.91	313.1804 (ppm)	646717.7035
2/23/2018 23:24:34	R1801411-002	Mn (257.610 nm)	0.3754 (ppm)	0.57	0.3754 (ppm)	121852.2582
2/23/2018 23:24:34	R1801411-002	Mo (202.032 nm)	0.0233 (ppm)	2.33	0.0233 (ppm)	248.0554
2/23/2018 23:24:34	R1801411-002	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 23:24:34	R1801411-002	Ni (230.299 nm)	0.3273 (ppm)	1.79	0.3273 (ppm)	2312.2043
2/23/2018 23:24:34	R1801411-002	Pb (220.353 nm)	0.0029 (ppm)	47.15	0.0029 (ppm)	12.2618
2/23/2018 23:24:34	R1801411-002	Sb (217.582 nm)	0.0225 (ppm)	18.39	0.0225 (ppm)	34.3485
2/23/2018 23:24:34	R1801411-002	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-2.5828
2/23/2018 23:24:34	R1801411-002	Sn (189.925 nm)	0.0599 (ppm)	4.75	0.0599 (ppm)	74.8844
2/23/2018 23:24:34	R1801411-002	Sr (216.596 nm)	3.5417 (ppm)	2.61	3.5417 (ppm)	49044.6084
2/23/2018 23:24:34	R1801411-002	Ti (336.122 nm)	0.8183 (ppm)	0.32	0.8183 (ppm)	183156.4865
2/23/2018 23:24:34	R1801411-002	Tl (351.923 nm)	0.0030 (ppm)	88.03	0.0030 (ppm)	27.1505
2/23/2018 23:24:34	R1801411-002	V (292.401 nm)	0.1708 (ppm)	0.27	0.1708 (ppm)	6632.6035
2/23/2018 23:24:34	R1801411-002	Y (360.074 nm)	0.50 (Ratio)	0.85	0.50 (Ratio)	493954.81
2/23/2018 23:24:34	R1801411-002	Y_R (360.074 nm)	0.50 (Ratio)	0.85	0.50 (Ratio)	495065.31

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:24:34	R1801411-002	Zn (213.857 nm)	0.2285 (ppm)	0.63	0.2285 (ppm)	6872.1167
2/23/2018 23:27:55	Continuing Calibration Verification1	Ag (328.068 nm)	0.4739 (ppm)	0.13	0.4739 (ppm)	36682.1825
2/23/2018 23:27:55	Continuing Calibration Verification1	Al (394.401 nm)	9.4711 (ppm)	0.05	9.4711 (ppm)	137085.2828
2/23/2018 23:27:55	Continuing Calibration Verification1	As (188.980 nm)	0.9432 (ppm)	0.46	0.9432 (ppm)	880.7148
2/23/2018 23:27:55	Continuing Calibration Verification1	B (249.772 nm)	2.4437 (ppm)	0.05	2.4437 (ppm)	74382.3609
2/23/2018 23:27:55	Continuing Calibration Verification1	Ba (230.424 nm)	10.1523 (ppm)	0.51	10.1523 (ppm)	354869.0899
2/23/2018 23:27:55	Continuing Calibration Verification1	Be (313.107 nm)	0.2515 (ppm)	0.40	0.2515 (ppm)	378660.0615
2/23/2018 23:27:55	Continuing Calibration Verification1	Ca (227.547 nm)	23.6682 (ppm)	0.36	23.6682 (ppm)	1661.7716
2/23/2018 23:27:55	Continuing Calibration Verification1	Cd (214.439 nm)	0.4877 (ppm)	0.52	0.4877 (ppm)	10470.8855
2/23/2018 23:27:55	Continuing Calibration Verification1	Co (230.786 nm)	2.5359 (ppm)	0.44	2.5359 (ppm)	26997.7433
2/23/2018 23:27:55	Continuing Calibration Verification1	Cr (267.716 nm)	0.5244 (ppm)	0.40	0.5244 (ppm)	25360.6734
2/23/2018 23:27:55	Continuing Calibration Verification1	Cu (327.395 nm)	1.2020 (ppm)	0.23	1.2020 (ppm)	84515.8919
2/23/2018 23:27:55	Continuing Calibration Verification1	Fe (234.350 nm)	4.9925 (ppm)	0.40	4.9925 (ppm)	56198.4785
2/23/2018 23:27:55	Continuing Calibration Verification1	K (766.491 nm)	24.5632 (ppm)	0.57	24.5632 (ppm)	90361.9612
2/23/2018 23:27:55	Continuing Calibration Verification1	Mg (279.078 nm)	24.7153 (ppm)	0.30	24.7153 (ppm)	51033.2114
2/23/2018 23:27:55	Continuing Calibration Verification1	Mn (257.610 nm)	0.7600 (ppm)	0.37	0.7600 (ppm)	246727.3499
2/23/2018 23:27:55	Continuing Calibration Verification1	Mo (202.032 nm)	2.3952 (ppm)	0.42	2.3952 (ppm)	25084.8807
2/23/2018 23:27:55	Continuing Calibration Verification1	Na (588.995 nm)	25.1421 (ppm)	0.63	25.1421 (ppm)	1354682.5746
2/23/2018 23:27:55	Continuing Calibration Verification1	Ni (230.299 nm)	2.0228 (ppm)	0.42	2.0228 (ppm)	14410.6844
2/23/2018 23:27:55	Continuing Calibration Verification1	Pb (220.353 nm)	0.4887 (ppm)	0.38	0.4887 (ppm)	1120.2004
2/23/2018 23:27:55	Continuing Calibration Verification1	Sb (217.582 nm)	4.7726 (ppm)	0.10	4.7726 (ppm)	7593.8671
2/23/2018 23:27:55	Continuing Calibration Verification1	Se (196.026 nm)	0.4726 (ppm)	0.09	0.4726 (ppm)	447.7075
2/23/2018 23:27:55	Continuing Calibration Verification1	Sn (189.925 nm)	4.9026 (ppm)	0.59	4.9026 (ppm)	6041.0770
2/23/2018 23:27:55	Continuing Calibration Verification1	Sr (216.596 nm)	2.5435 (ppm)	0.86	2.5435 (ppm)	35220.2599
2/23/2018 23:27:55	Continuing Calibration Verification1	Ti (336.122 nm)	2.4643 (ppm)	0.15	2.4643 (ppm)	552620.1882
2/23/2018 23:27:55	Continuing Calibration Verification1	Tl (351.923 nm)	0.9650 (ppm)	0.48	0.9650 (ppm)	2910.5603
2/23/2018 23:27:55	Continuing Calibration Verification1	V (292.401 nm)	2.4895 (ppm)	0.27	2.4895 (ppm)	95314.9025
2/23/2018 23:27:55	Continuing Calibration Verification1	Y (360.074 nm)	0.97 (Ratio)	0.69	0.97 (Ratio)	960930.39
2/23/2018 23:27:55	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.69	0.97 (Ratio)	962806.48
2/23/2018 23:27:55	Continuing Calibration Verification1	Zn (213.857 nm)	0.9814 (ppm)	0.37	0.9814 (ppm)	29616.2745
2/23/2018 23:31:16	Continuing Calibration Blank 1	Ag (328.068 nm)	-0.0003 u (ppm)	37.43	-0.0003 (ppm)	-135.5311
2/23/2018 23:31:16	Continuing Calibration Blank 1	Al (394.401 nm)	0.0041 (ppm)	7.56	0.0041 (ppm)	125.0326
2/23/2018 23:31:16	Continuing Calibration Blank 1	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.9492
2/23/2018 23:31:16	Continuing Calibration Blank 1	B (249.772 nm)	0.0170 (ppm)	7.80	0.0170 (ppm)	603.2341
2/23/2018 23:31:16	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0024 (ppm)	1.32	0.0024 (ppm)	90.3728
2/23/2018 23:31:16	Continuing Calibration Blank 1	Be (313.107 nm)	0.0001 (ppm)	5.69	0.0001 (ppm)	-460.7098
2/23/2018 23:31:16	Continuing Calibration Blank 1	Ca (227.547 nm)	0.0231 (ppm)	> 100.00	0.0231 (ppm)	9.0803
2/23/2018 23:31:16	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0001 (ppm)	68.02	0.0001 (ppm)	18.1748
2/23/2018 23:31:16	Continuing Calibration Blank 1	Co (230.786 nm)	0.0005 (ppm)	49.10	0.0005 (ppm)	-0.6245
2/23/2018 23:31:16	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-1.1485
2/23/2018 23:31:16	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0003 (ppm)	26.10	0.0003 (ppm)	48.5461
2/23/2018 23:31:16	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0022 (ppm)	6.90	0.0022 (ppm)	43.5929
2/23/2018 23:31:16	Continuing Calibration Blank 1	K (766.491 nm)	0.0999 (ppm)	13.36	0.0999 (ppm)	364.3966
2/23/2018 23:31:16	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0062 (ppm)	5.36	0.0062 (ppm)	8.3677
2/23/2018 23:31:16	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0002 (ppm)	4.77	0.0002 (ppm)	67.0270
2/23/2018 23:31:16	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0026 (ppm)	9.86	0.0026 (ppm)	31.2734
2/23/2018 23:31:16	Continuing Calibration Blank 1	Na (588.995 nm)	0.1425 (ppm)	11.27	0.1425 (ppm)	3111.5818
2/23/2018 23:31:16	Continuing Calibration Blank 1	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-25.1815
2/23/2018 23:31:16	Continuing Calibration Blank 1	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.9953
2/23/2018 23:31:16	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0035 (ppm)	46.42	0.0035 (ppm)	4.1182
2/23/2018 23:31:16	Continuing Calibration Blank 1	Se (196.026 nm)	-0.0006 u (ppm)	40.25	-0.0006 (ppm)	-2.4982

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:31:16	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0005 (ppm)	93.56	0.0005 (ppm)	1.7002
2/23/2018 23:31:16	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0010 (ppm)	26.89	0.0010 (ppm)	9.8246
2/23/2018 23:31:16	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0012 (ppm)	2.76	0.0012 (ppm)	-247.9793
2/23/2018 23:31:16	Continuing Calibration Blank 1	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	20.5094
2/23/2018 23:31:16	Continuing Calibration Blank 1	V (292.401 nm)	0.0005 (ppm)	11.53	0.0005 (ppm)	116.7079
2/23/2018 23:31:16	Continuing Calibration Blank 1	Y (360.074 nm)	1.02 (Ratio)	0.52	1.02 (Ratio)	1013391.93
2/23/2018 23:31:16	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.02 (Ratio)	0.52	1.02 (Ratio)	1015301.81
2/23/2018 23:31:16	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0001 (ppm)	76.95	0.0001 (ppm)	-27.9500
2/23/2018 23:34:36	Contract Required Detection Limit	Ag (328.068 nm)	0.0094 (ppm)	0.93	0.0094 (ppm)	615.0981
2/23/2018 23:34:36	Contract Required Detection Limit	Al (394.401 nm)	0.1774 (ppm)	0.61	0.1774 (ppm)	2632.3158
2/23/2018 23:34:36	Contract Required Detection Limit	As (188.980 nm)	0.0191 (ppm)	7.22	0.0191 (ppm)	15.2365
2/23/2018 23:34:36	Contract Required Detection Limit	B (249.772 nm)	0.2008 (ppm)	0.88	0.2008 (ppm)	6191.2350
2/23/2018 23:34:36	Contract Required Detection Limit	Ba (230.424 nm)	0.2084 (ppm)	0.49	0.2084 (ppm)	7288.6024
2/23/2018 23:34:36	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.50	0.0049 (ppm)	6861.0590
2/23/2018 23:34:36	Contract Required Detection Limit	Ca (227.547 nm)	0.9326 (ppm)	2.84	0.9326 (ppm)	72.6486
2/23/2018 23:34:36	Contract Required Detection Limit	Cd (214.439 nm)	0.0096 (ppm)	0.63	0.0096 (ppm)	222.1894
2/23/2018 23:34:36	Contract Required Detection Limit	Co (230.786 nm)	0.0497 (ppm)	2.06	0.0497 (ppm)	523.8725
2/23/2018 23:34:36	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	1.22	0.0102 (ppm)	487.9593
2/23/2018 23:34:36	Contract Required Detection Limit	Cu (327.395 nm)	0.0244 (ppm)	0.39	0.0244 (ppm)	1740.4564
2/23/2018 23:34:36	Contract Required Detection Limit	Fe (234.350 nm)	0.1047 (ppm)	0.72	0.1047 (ppm)	1197.5313
2/23/2018 23:34:36	Contract Required Detection Limit	K (766.491 nm)	0.9931 (ppm)	1.44	0.9931 (ppm)	3650.4692
2/23/2018 23:34:36	Contract Required Detection Limit	Mg (279.078 nm)	1.0137 (ppm)	0.82	1.0137 (ppm)	2088.9812
2/23/2018 23:34:36	Contract Required Detection Limit	Mn (257.610 nm)	0.0153 (ppm)	0.71	0.0153 (ppm)	4978.3754
2/23/2018 23:34:36	Contract Required Detection Limit	Mo (202.032 nm)	0.0247 (ppm)	0.96	0.0247 (ppm)	262.2732
2/23/2018 23:34:36	Contract Required Detection Limit	Na (588.995 nm)	1.1287 (ppm)	1.51	1.1287 (ppm)	58429.0243
2/23/2018 23:34:36	Contract Required Detection Limit	Ni (230.289 nm)	0.0406 (ppm)	3.19	0.0406 (ppm)	266.4132
2/23/2018 23:34:36	Contract Required Detection Limit	Pb (220.353 nm)	0.0087 (ppm)	10.29	0.0087 (ppm)	25.4634
2/23/2018 23:34:36	Contract Required Detection Limit	Sb (217.582 nm)	0.0601 (ppm)	1.89	0.0601 (ppm)	94.2158
2/23/2018 23:34:36	Contract Required Detection Limit	Se (196.026 nm)	0.0112 (ppm)	17.97	0.0112 (ppm)	8.7987
2/23/2018 23:34:36	Contract Required Detection Limit	Sn (189.925 nm)	0.4892 (ppm)	0.67	0.4892 (ppm)	603.7920
2/23/2018 23:34:36	Contract Required Detection Limit	Sr (216.596 nm)	0.1016 (ppm)	0.70	0.1016 (ppm)	1401.9742
2/23/2018 23:34:36	Contract Required Detection Limit	Ti (336.122 nm)	0.0501 (ppm)	0.67	0.0501 (ppm)	10729.6222
2/23/2018 23:34:36	Contract Required Detection Limit	Tl (351.923 nm)	0.0184 (ppm)	6.65	0.0184 (ppm)	73.3552
2/23/2018 23:34:36	Contract Required Detection Limit	V (292.401 nm)	0.0486 (ppm)	0.62	0.0486 (ppm)	1956.2134
2/23/2018 23:34:36	Contract Required Detection Limit	Y (360.074 nm)	1.02 (Ratio)	1.16	1.02 (Ratio)	1007387.38
2/23/2018 23:34:36	Contract Required Detection Limit	Y_R (360.074 nm)	1.02 (Ratio)	1.16	1.02 (Ratio)	1009289.71
2/23/2018 23:34:36	Contract Required Detection Limit	Zn (213.857 nm)	0.0197 (ppm)	0.77	0.0197 (ppm)	563.6348
2/23/2018 23:37:57	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u (ppm)	35.74	-0.0003 (ppm)	-142.0736
2/23/2018 23:37:57	Interference Check Solution A	Al (394.401 nm)	264.8061 o (ppm)	1.37	264.8061 (ppm)	3831041.1110
2/23/2018 23:37:57	Interference Check Solution A	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-1.0248
2/23/2018 23:37:57	Interference Check Solution A	B (249.772 nm)	0.0429 (ppm)	1.28	0.0429 (ppm)	1392.5966
2/23/2018 23:37:57	Interference Check Solution A	Ba (230.424 nm)	0.0007 (ppm)	9.05	0.0007 (ppm)	27.5502
2/23/2018 23:37:57	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	9.00	0.0000 (ppm)	-648.8031
2/23/2018 23:37:57	Interference Check Solution A	Ca (227.547 nm)	264.8133 o (ppm)	1.40	264.8133 (ppm)	18516.8019
2/23/2018 23:37:57	Interference Check Solution A	Cd (214.439 nm)	-0.0007 u (ppm)	9.82	-0.0007 (ppm)	0.1513
2/23/2018 23:37:57	Interference Check Solution A	Co (230.786 nm)	-0.0020 u (ppm)	14.62	-0.0020 (ppm)	-27.4275
2/23/2018 23:37:57	Interference Check Solution A	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-8.5189
2/23/2018 23:37:57	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	24.73	0.0007 (ppm)	74.1197
2/23/2018 23:37:57	Interference Check Solution A	Fe (234.350 nm)	90.6396 o (ppm)	1.21	90.6396 (ppm)	1019973.1011
2/23/2018 23:37:57	Interference Check Solution A	K (766.491 nm)	0.0611 (ppm)	11.79	0.0611 (ppm)	221.5794
2/23/2018 23:37:57	Interference Check Solution A	Mg (279.078 nm)	260.0811 o (ppm)	1.17	260.0811 (ppm)	537066.8721



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:37:57	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.69	0.0016 (ppm)	536.0145
2/23/2018 23:37:57	Interference Check Solution A	Mo (202.032 nm)	0.0006 (ppm)	40.34	0.0006 (ppm)	9.8285
2/23/2018 23:37:57	Interference Check Solution A	Na (588.995 nm)	0.1004 (ppm)	8.94	0.1004 (ppm)	835.3461
2/23/2018 23:37:57	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	25.63	-0.0024 (ppm)	-40.0328
2/23/2018 23:37:57	Interference Check Solution A	Pb (220.353 nm)	-0.0037 u (ppm)	7.16	-0.0037 (ppm)	-2.6282
2/23/2018 23:37:57	Interference Check Solution A	Sb (217.582 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	1.3742
2/23/2018 23:37:57	Interference Check Solution A	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.6815
2/23/2018 23:37:57	Interference Check Solution A	Sn (189.925 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	-2.3533
2/23/2018 23:37:57	Interference Check Solution A	Sr (216.596 nm)	0.0206 (ppm)	4.21	0.0206 (ppm)	280.6414
2/23/2018 23:37:57	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	3.24	0.0020 (ppm)	-69.9775
2/23/2018 23:37:57	Interference Check Solution A	Tl (351.923 nm)	0.0034 (ppm)	21.70	0.0034 (ppm)	28.4021
2/23/2018 23:37:57	Interference Check Solution A	V (292.401 nm)	0.0031 K (ppm)	6.15	0.0031 (ppm)	217.2822 K
2/23/2018 23:37:57	Interference Check Solution A	Y (360.074 nm)	0.89 (Ratio)	1.56	0.89 (Ratio)	879831.34
2/23/2018 23:37:57	Interference Check Solution A	Y_R (360.074 nm)	0.89 (Ratio)	1.56	0.89 (Ratio)	881611.34
2/23/2018 23:37:57	Interference Check Solution A	Zn (213.857 nm)	0.0128 K (ppm)	3.03	0.0128 (ppm)	354.4319 K
2/23/2018 23:41:18	Interference Check Solution AB	Ag (328.068 nm)	0.2121 (ppm)	0.98	0.2121 (ppm)	16353.4137
2/23/2018 23:41:18	Interference Check Solution AB	Al (394.401 nm)	262.1176 o (ppm)	1.12	262.1176 (ppm)	3792147.1098
2/23/2018 23:41:18	Interference Check Solution AB	As (188.980 nm)	0.1024 (ppm)	3.14	0.1024 (ppm)	93.3083
2/23/2018 23:41:18	Interference Check Solution AB	B (249.772 nm)	0.0425 (ppm)	0.89	0.0425 (ppm)	1379.4206
2/23/2018 23:41:18	Interference Check Solution AB	Ba (230.424 nm)	0.5143 (ppm)	1.18	0.5143 (ppm)	17982.7038
2/23/2018 23:41:18	Interference Check Solution AB	Be (313.107 nm)	0.5026 (ppm)	1.37	0.5026 (ppm)	757133.9522
2/23/2018 23:41:18	Interference Check Solution AB	Ca (227.547 nm)	261.8033 o (ppm)	1.11	261.8033 (ppm)	18306.4126
2/23/2018 23:41:18	Interference Check Solution AB	Cd (214.439 nm)	0.9350 (ppm)	1.24	0.9350 (ppm)	20059.6340
2/23/2018 23:41:18	Interference Check Solution AB	Co (230.786 nm)	0.4811 (ppm)	1.08	0.4811 (ppm)	5117.6695
2/23/2018 23:41:18	Interference Check Solution AB	Cr (267.716 nm)	0.5069 (ppm)	1.11	0.5069 (ppm)	24517.9213
2/23/2018 23:41:18	Interference Check Solution AB	Cu (327.395 nm)	0.5268 (ppm)	1.13	0.5268 (ppm)	37057.9073
2/23/2018 23:41:18	Interference Check Solution AB	Fe (234.350 nm)	90.2715 o (ppm)	1.16	90.2715 (ppm)	1015831.4786
2/23/2018 23:41:18	Interference Check Solution AB	K (766.491 nm)	0.0371 (ppm)	17.06	0.0371 (ppm)	133.5238
2/23/2018 23:41:18	Interference Check Solution AB	Mg (279.078 nm)	257.8955 o (ppm)	1.25	257.8955 (ppm)	532553.6669
2/23/2018 23:41:18	Interference Check Solution AB	Mn (257.610 nm)	0.4944 (ppm)	1.22	0.4944 (ppm)	160494.5930
2/23/2018 23:41:18	Interference Check Solution AB	Mo (202.032 nm)	0.0008 (ppm)	8.50	0.0008 (ppm)	11.4919
2/23/2018 23:41:18	Interference Check Solution AB	Na (588.995 nm)	0.0625 (ppm)	7.69	0.0625 (ppm)	-1212.5537
2/23/2018 23:41:18	Interference Check Solution AB	Ni (230.299 nm)	0.9453 (ppm)	1.32	0.9453 (ppm)	6721.5747
2/23/2018 23:41:18	Interference Check Solution AB	Pb (220.353 nm)	0.0464 (ppm)	6.75	0.0464 (ppm)	111.4933
2/23/2018 23:41:18	Interference Check Solution AB	Sb (217.582 nm)	0.6028 (ppm)	0.33	0.6028 (ppm)	957.7721
2/23/2018 23:41:18	Interference Check Solution AB	Se (196.026 nm)	0.0543 (ppm)	2.31	0.0543 (ppm)	49.7368
2/23/2018 23:41:18	Interference Check Solution AB	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.5218
2/23/2018 23:41:18	Interference Check Solution AB	Sr (216.596 nm)	0.0205 (ppm)	3.04	0.0205 (ppm)	279.3203
2/23/2018 23:41:18	Interference Check Solution AB	Ti (336.122 nm)	0.0018 (ppm)	2.23	0.0018 (ppm)	-115.7845
2/23/2018 23:41:18	Interference Check Solution AB	Tl (351.923 nm)	0.1140 (ppm)	2.14	0.1140 (ppm)	359.8889
2/23/2018 23:41:18	Interference Check Solution AB	V (292.401 nm)	0.4961 (ppm)	1.08	0.4961 (ppm)	19071.9777
2/23/2018 23:41:18	Interference Check Solution AB	Y (360.074 nm)	0.89 (Ratio)	1.02	0.89 (Ratio)	883637.61
2/23/2018 23:41:18	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	1.02	0.89 (Ratio)	885416.74
2/23/2018 23:41:18	Interference Check Solution AB	Zn (213.857 nm)	1.0123 (ppm)	1.22	1.0123 (ppm)	30550.7495
2/23/2018 23:44:39	Continuing Calibration Verification 1	Ag (328.068 nm)	0.4748 (ppm)	0.28	0.4748 (ppm)	36757.9398
2/23/2018 23:44:39	Continuing Calibration Verification 1	Al (394.401 nm)	9.5073 (ppm)	0.02	9.5073 (ppm)	137609.5605
2/23/2018 23:44:39	Continuing Calibration Verification 1	As (188.980 nm)	0.9470 (ppm)	1.33	0.9470 (ppm)	884.2631
2/23/2018 23:44:39	Continuing Calibration Verification 1	B (249.772 nm)	2.4217 (ppm)	0.29	2.4217 (ppm)	73713.7844
2/23/2018 23:44:39	Continuing Calibration Verification 1	Ba (230.424 nm)	10.1380 (ppm)	0.44	10.1380 (ppm)	354368.6002
2/23/2018 23:44:39	Continuing Calibration Verification 1	Be (313.107 nm)	0.2525 (ppm)	0.29	0.2525 (ppm)	380156.3168
2/23/2018 23:44:39	Continuing Calibration Verification 1	Ca (227.547 nm)	23.7947 (ppm)	0.05	23.7947 (ppm)	1670.6175

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:44:39	Continuing Calibration Verification 1	Cd (214.439 nm)	0.4868 (ppm)	0.54	0.4868 (ppm)	10452.4666
2/23/2018 23:44:39	Continuing Calibration Verification 1	Co (230.786 nm)	2.5343 (ppm)	0.40	2.5343 (ppm)	26980.3193
2/23/2018 23:44:39	Continuing Calibration Verification 1	Cr (267.716 nm)	0.5255 (ppm)	0.49	0.5255 (ppm)	25417.1903
2/23/2018 23:44:39	Continuing Calibration Verification 1	Cu (327.395 nm)	1.2084 (ppm)	0.12	1.2084 (ppm)	84960.1782
2/23/2018 23:44:39	Continuing Calibration Verification 1	Fe (234.350 nm)	5.0206 (ppm)	0.47	5.0206 (ppm)	56514.8514
2/23/2018 23:44:39	Continuing Calibration Verification 1	K (766.491 nm)	24.6065 (ppm)	0.48	24.6065 (ppm)	90521.2393
2/23/2018 23:44:39	Continuing Calibration Verification 1	Mg (279.078 nm)	24.7469 (ppm)	0.41	24.7469 (ppm)	51098.2979
2/23/2018 23:44:39	Continuing Calibration Verification 1	Mn (257.610 nm)	0.7615 (ppm)	0.47	0.7615 (ppm)	247218.5359
2/23/2018 23:44:39	Continuing Calibration Verification 1	Mo (202.032 nm)	2.3944 (ppm)	0.42	2.3944 (ppm)	25076.8182
2/23/2018 23:44:39	Continuing Calibration Verification 1	Na (588.995 nm)	25.5292 (ppm)	0.51	25.5292 (ppm)	1375612.2356
2/23/2018 23:44:39	Continuing Calibration Verification 1	Ni (230.299 nm)	2.0232 (ppm)	0.59	2.0232 (ppm)	14413.5065
2/23/2018 23:44:39	Continuing Calibration Verification 1	Pb (220.353 nm)	0.4920 (ppm)	0.61	0.4920 (ppm)	1127.5415
2/23/2018 23:44:39	Continuing Calibration Verification 1	Sb (217.582 nm)	4.7893 (ppm)	0.28	4.7893 (ppm)	7620.4563
2/23/2018 23:44:39	Continuing Calibration Verification 1	Se (196.026 nm)	0.4735 (ppm)	0.51	0.4735 (ppm)	448.5251
2/23/2018 23:44:39	Continuing Calibration Verification 1	Sn (189.925 nm)	4.9275 (ppm)	0.73	4.9275 (ppm)	6071.7849
2/23/2018 23:44:39	Continuing Calibration Verification 1	Sr (216.596 nm)	2.5400 (ppm)	0.68	2.5400 (ppm)	35172.4465
2/23/2018 23:44:39	Continuing Calibration Verification 1	Ti (336.122 nm)	2.4754 (ppm)	0.35	2.4754 (ppm)	555128.9694
2/23/2018 23:44:39	Continuing Calibration Verification 1	Tl (351.923 nm)	0.9725 (ppm)	0.12	0.9725 (ppm)	2933.0173
2/23/2018 23:44:39	Continuing Calibration Verification 1	V (292.401 nm)	2.4939 (ppm)	0.39	2.4939 (ppm)	95484.5161
2/23/2018 23:44:39	Continuing Calibration Verification 1	Y (360.074 nm)	0.97 (Ratio)	0.57	0.97 (Ratio)	956175.26
2/23/2018 23:44:39	Continuing Calibration Verification 1	Y_R (360.074 nm)	0.97 (Ratio)	0.57	0.97 (Ratio)	958020.28
2/23/2018 23:44:39	Continuing Calibration Verification 1	Zn (213.857 nm)	0.8815 (ppm)	0.49	0.8815 (ppm)	29619.5553
2/23/2018 23:47:59	Continuing Calibration Blank 1	Ag (328.068 nm)	-0.0001 u (ppm)	55.66	-0.0001 (ppm)	-125.7832
2/23/2018 23:47:59	Continuing Calibration Blank 1	Al (394.401 nm)	0.0056 (ppm)	6.31	0.0056 (ppm)	146.9354
2/23/2018 23:47:59	Continuing Calibration Blank 1	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-1.2021
2/23/2018 23:47:59	Continuing Calibration Blank 1	B (249.772 nm)	0.0046 (ppm)	4.58	0.0046 (ppm)	227.3165
2/23/2018 23:47:59	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0031 (ppm)	1.09	0.0031 (ppm)	111.6504
2/23/2018 23:47:59	Continuing Calibration Blank 1	Be (313.107 nm)	0.0001 (ppm)	2.04	0.0001 (ppm)	-438.4213
2/23/2018 23:47:59	Continuing Calibration Blank 1	Ca (227.547 nm)	0.0379 u (ppm)	> 100.00	0.0379 (ppm)	10.1122
2/23/2018 23:47:59	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0001 (ppm)	42.67	0.0001 (ppm)	18.3567
2/23/2018 23:47:59	Continuing Calibration Blank 1	Co (230.786 nm)	0.0009 (ppm)	9.07	0.0009 (ppm)	3.5129
2/23/2018 23:47:59	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0001 (ppm)	53.91	0.0001 (ppm)	0.2659
2/23/2018 23:47:59	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0003 (ppm)	20.39	0.0003 (ppm)	48.8242
2/23/2018 23:47:59	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0031 (ppm)	4.88	0.0031 (ppm)	53.7234
2/23/2018 23:47:59	Continuing Calibration Blank 1	K (766.491 nm)	0.0481 (ppm)	6.30	0.0481 (ppm)	173.7954
2/23/2018 23:47:59	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0093 (ppm)	14.76	0.0093 (ppm)	14.7917
2/23/2018 23:47:59	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0002 (ppm)	3.97	0.0002 (ppm)	81.0619
2/23/2018 23:47:59	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0030 (ppm)	4.67	0.0030 (ppm)	34.5195
2/23/2018 23:47:59	Continuing Calibration Blank 1	Na (588.995 nm)	0.0810 (ppm)	4.39	0.0810 (ppm)	-211.9306
2/23/2018 23:47:59	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-23.0571
2/23/2018 23:47:59	Continuing Calibration Blank 1	Pb (220.353 nm)	-0.0011 u (ppm)	52.27	-0.0011 (ppm)	3.1057
2/23/2018 23:47:59	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0030 (ppm)	26.90	0.0030 (ppm)	3.2131
2/23/2018 23:47:59	Continuing Calibration Blank 1	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.6082
2/23/2018 23:47:59	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.4564
2/23/2018 23:47:59	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0011 (ppm)	21.57	0.0011 (ppm)	10.7185
2/23/2018 23:47:59	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0013 (ppm)	1.20	0.0013 (ppm)	-233.8383
2/23/2018 23:47:59	Continuing Calibration Blank 1	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	21.3592
2/23/2018 23:47:59	Continuing Calibration Blank 1	V (292.401 nm)	0.0007 (ppm)	9.42	0.0007 (ppm)	123.7501
2/23/2018 23:47:59	Continuing Calibration Blank 1	Y (360.074 nm)	1.02 (Ratio)	1.08	1.02 (Ratio)	1005808.23
2/23/2018 23:47:59	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.02 (Ratio)	1.08	1.02 (Ratio)	1007636.27
2/23/2018 23:47:59	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0002 (ppm)	27.27	0.0002 (ppm)	-25.0460

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:51:20	PBW-308803	Ag (328.068 nm)	-0.0003 u (ppm)	19.93	-0.0003 (ppm)	-140.4511
2/23/2018 23:51:20	PBW-308803	Al (394.401 nm)	0.0057 (ppm)	8.07	0.0057 (ppm)	148.8105
2/23/2018 23:51:20	PBW-308803	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-2.0917
2/23/2018 23:51:20	PBW-308803	B (249.772 nm)	0.0041 (ppm)	0.75	0.0041 (ppm)	212.4732
2/23/2018 23:51:20	PBW-308803	Ba (230.424 nm)	0.0003 (ppm)	25.80	0.0003 (ppm)	13.6260
2/23/2018 23:51:20	PBW-308803	Be (313.107 nm)	0.0000 (ppm)	21.45	0.0000 (ppm)	-543.0645
2/23/2018 23:51:20	PBW-308803	Ca (227.547 nm)	0.0356 (ppm)	50.41	0.0356 (ppm)	9.9515
2/23/2018 23:51:20	PBW-308803	Cd (214.439 nm)	-0.0002 u (ppm)	61.44	-0.0002 (ppm)	11.4055
2/23/2018 23:51:20	PBW-308803	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-4.5595
2/23/2018 23:51:20	PBW-308803	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-8.0570
2/23/2018 23:51:20	PBW-308803	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	28.7623
2/23/2018 23:51:20	PBW-308803	Fe (234.350 nm)	0.0034 (ppm)	10.45	0.0034 (ppm)	56.8984
2/23/2018 23:51:20	PBW-308803	K (766.491 nm)	0.1536 (ppm)	1.90	0.1536 (ppm)	561.8437
2/23/2018 23:51:20	PBW-308803	Mg (279.078 nm)	0.0095 (ppm)	3.95	0.0095 (ppm)	15.3284
2/23/2018 23:51:20	PBW-308803	Mn (257.610 nm)	0.0003 (ppm)	5.51	0.0003 (ppm)	109.3634
2/23/2018 23:51:20	PBW-308803	Mo (202.032 nm)	0.0004 (ppm)	97.35	0.0004 (ppm)	7.3188
2/23/2018 23:51:20	PBW-308803	Na (588.995 nm)	0.1835 (ppm)	1.74	0.1835 (ppm)	5330.3218
2/23/2018 23:51:20	PBW-308803	Ni (230.299 nm)	0.0006 (ppm)	32.98	0.0006 (ppm)	-19.0471
2/23/2018 23:51:20	PBW-308803	Pb (220.353 nm)	-0.0013 u (ppm)	16.00	-0.0013 (ppm)	2.8511
2/23/2018 23:51:20	PBW-308803	Sb (217.582 nm)	0.0025 (ppm)	50.80	0.0025 (ppm)	2.5551
2/23/2018 23:51:20	PBW-308803	Se (196.026 nm)	0.0020 (ppm)	88.27	0.0020 (ppm)	-0.0150
2/23/2018 23:51:20	PBW-308803	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.5275
2/23/2018 23:51:20	PBW-308803	Sr (216.596 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.1795
2/23/2018 23:51:20	PBW-308803	Ti (336.122 nm)	0.0008 (ppm)	3.34	0.0008 (ppm)	-345.1352
2/23/2018 23:51:20	PBW-308803	Tl (351.923 nm)	-0.0027 u (ppm)	59.87	-0.0027 (ppm)	10.2144
2/23/2018 23:51:20	PBW-308803	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	94.2047
2/23/2018 23:51:20	PBW-308803	Y (360.074 nm)	1.03 (Ratio)	0.65	1.03 (Ratio)	1021385.49
2/23/2018 23:51:20	PBW-308803	Y_R (360.074 nm)	1.03 (Ratio)	0.65	1.03 (Ratio)	1023256.31
2/23/2018 23:51:20	PBW-308803	Zn (213.857 nm)	0.0081 (ppm)	0.16	0.0081 (ppm)	214.8153
2/23/2018 23:54:40	LCSW-308803	Ag (328.068 nm)	0.0484 (ppm)	0.05	0.0484 (ppm)	3644.2006
2/23/2018 23:54:40	LCSW-308803	Al (394.401 nm)	1.8343 (ppm)	0.23	1.8343 (ppm)	26602.6924
2/23/2018 23:54:40	LCSW-308803	As (188.980 nm)	0.0397 (ppm)	5.17	0.0397 (ppm)	34.5319
2/23/2018 23:54:40	LCSW-308803	B (249.772 nm)	0.9610 (ppm)	0.26	0.9610 (ppm)	29305.9536
2/23/2018 23:54:40	LCSW-308803	Ba (230.424 nm)	2.0494 (ppm)	0.62	2.0494 (ppm)	71641.2502
2/23/2018 23:54:40	LCSW-308803	Be (313.107 nm)	0.0493 (ppm)	0.28	0.0493 (ppm)	73720.7527
2/23/2018 23:54:40	LCSW-308803	Ca (227.547 nm)	1.8481 (ppm)	0.83	1.8481 (ppm)	136.6367
2/23/2018 23:54:40	LCSW-308803	Cd (214.439 nm)	0.0494 (ppm)	0.22	0.0494 (ppm)	1075.2013
2/23/2018 23:54:40	LCSW-308803	Co (230.786 nm)	0.5036 (ppm)	0.68	0.5036 (ppm)	5356.4231
2/23/2018 23:54:40	LCSW-308803	Cr (267.716 nm)	0.2057 (ppm)	0.34	0.2057 (ppm)	9944.1087
2/23/2018 23:54:40	LCSW-308803	Cu (327.395 nm)	0.2415 (ppm)	0.25	0.2415 (ppm)	17001.4297
2/23/2018 23:54:40	LCSW-308803	Fe (234.350 nm)	1.0001 (ppm)	0.27	1.0001 (ppm)	11273.5676
2/23/2018 23:54:40	LCSW-308803	K (766.491 nm)	18.9884 (ppm)	0.22	18.9884 (ppm)	69852.9122
2/23/2018 23:54:40	LCSW-308803	Mg (279.078 nm)	1.9716 (ppm)	0.37	1.9716 (ppm)	4066.9463
2/23/2018 23:54:40	LCSW-308803	Mn (257.610 nm)	0.4998 (ppm)	0.34	0.4998 (ppm)	162267.2873
2/23/2018 23:54:40	LCSW-308803	Mo (202.032 nm)	0.4825 (ppm)	0.40	0.4825 (ppm)	5055.5971
2/23/2018 23:54:40	LCSW-308803	Na (588.995 nm)	19.8817 (ppm)	0.26	19.8817 (ppm)	1070284.7587
2/23/2018 23:54:40	LCSW-308803	Ni (230.299 nm)	0.4928 (ppm)	0.46	0.4928 (ppm)	3493.0033
2/23/2018 23:54:40	LCSW-308803	Pb (220.353 nm)	0.5015 (ppm)	0.43	0.5015 (ppm)	1149.2240
2/23/2018 23:54:40	LCSW-308803	Sb (217.582 nm)	0.4581 (ppm)	0.84	0.4581 (ppm)	727.5252
2/23/2018 23:54:40	LCSW-308803	Se (196.026 nm)	1.0015 (ppm)	0.26	1.0015 (ppm)	950.9252
2/23/2018 23:54:40	LCSW-308803	Sn (189.925 nm)	4.8455 (ppm)	0.96	4.8455 (ppm)	5970.7289

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/23/2018 23:54:40	LCSW-308803	Sr (216.596 nm)	2.0156 (ppm)	0.31	2.0156 (ppm)	27909.6707
2/23/2018 23:54:40	LCSW-308803	Ti (336.122 nm)	0.4881 (ppm)	0.19	0.4881 (ppm)	109047.4402
2/23/2018 23:54:40	LCSW-308803	Ti (351.923 nm)	1.8432 (ppm)	0.23	1.8432 (ppm)	5542.7758
2/23/2018 23:54:40	LCSW-308803	V (292.401 nm)	0.4876 (ppm)	0.34	0.4876 (ppm)	18747.7720
2/23/2018 23:54:40	LCSW-308803	Y (360.074 nm)	1.00 (Ratio)	0.52	1.00 (Ratio)	986507.26
2/23/2018 23:54:40	LCSW-308803	Y_R (360.074 nm)	1.00 (Ratio)	0.52	1.00 (Ratio)	988356.56
2/23/2018 23:54:40	LCSW-308803	Zn (213.857 nm)	0.4967 (ppm)	0.10	0.4967 (ppm)	14973.6998
2/23/2018 23:58:00	R1801311-018	Ag (328.068 nm)	-0.0005 u (ppm)	40.01	-0.0005 (ppm)	-151.8333
2/23/2018 23:58:00	R1801311-018	Al (394.401 nm)	0.1559 (ppm)	2.29	0.1559 (ppm)	2321.7654
2/23/2018 23:58:00	R1801311-018	As (188.980 nm)	0.0073 u (ppm)	> 100.00	0.0073 (ppm)	4.1889
2/23/2018 23:58:00	R1801311-018	B (249.772 nm)	4.2226 (ppm)	0.67	4.2226 (ppm)	128468.1063
2/23/2018 23:58:00	R1801311-018	Ba (230.424 nm)	0.0756 (ppm)	1.04	0.0756 (ppm)	2646.9076
2/23/2018 23:58:00	R1801311-018	Be (313.107 nm)	0.0000 (ppm)	42.62	0.0000 (ppm)	-619.1698
2/23/2018 23:58:00	R1801311-018	Ca (227.547 nm)	10892.0632 o (ppm)	1.56	10892.0632 (ppm)	761316.9305
2/23/2018 23:58:00	R1801311-018	Cd (214.439 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	9.9947
2/23/2018 23:58:00	R1801311-018	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-3.2002
2/23/2018 23:58:00	R1801311-018	Cr (267.716 nm)	-0.0020 u (ppm)	15.03	-0.0020 (ppm)	-101.1928
2/23/2018 23:58:00	R1801311-018	Cu (327.395 nm)	0.0050 (ppm)	10.93	0.0050 (ppm)	379.7774
2/23/2018 23:58:00	R1801311-018	Fe (234.350 nm)	3.4709 (ppm)	1.03	3.4709 (ppm)	39076.9427
2/23/2018 23:58:00	R1801311-018	K (766.491 nm)	1234.4551 o (ppm)	4.02	1234.4551 (ppm)	4541402.4997
2/23/2018 23:58:00	R1801311-018	Mg (279.078 nm)	195.0684 o (ppm)	1.76	195.0684 (ppm)	402814.6741
2/23/2018 23:58:00	R1801311-018	Mn (257.610 nm)	1.5656 (ppm)	0.78	1.5656 (ppm)	508228.0990
2/23/2018 23:58:00	R1801311-018	Mo (202.032 nm)	0.0010 (ppm)	60.78	0.0010 (ppm)	13.8339
2/23/2018 23:58:00	R1801311-018	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/23/2018 23:58:00	R1801311-018	Ni (230.299 nm)	-0.0038 u (ppm)	4.70	-0.0038 (ppm)	-50.4920
2/23/2018 23:58:00	R1801311-018	Pb (220.353 nm)	0.0034 (ppm)	52.13	0.0034 (ppm)	13.3787
2/23/2018 23:58:00	R1801311-018	Sb (217.582 nm)	0.0020 (ppm)	59.93	0.0020 (ppm)	1.6688
2/23/2018 23:58:00	R1801311-018	Se (196.026 nm)	-0.0078 u (ppm)	> 100.00	-0.0078 (ppm)	-9.3161
2/23/2018 23:58:00	R1801311-018	Sn (189.925 nm)	-0.0082 u (ppm)	87.94	-0.0082 (ppm)	-9.0277
2/23/2018 23:58:00	R1801311-018	Sr (216.596 nm)	43.6446 o (ppm)	1.60	43.6446 (ppm)	604434.2217
2/23/2018 23:58:00	R1801311-018	Ti (336.122 nm)	0.1274 (ppm)	1.95	0.1274 (ppm)	28076.2025
2/23/2018 23:58:00	R1801311-018	Ti (351.923 nm)	0.2644 (ppm)	4.19	0.2644 (ppm)	810.7060
2/23/2018 23:58:00	R1801311-018	V (292.401 nm)	0.0037 (ppm)	20.55	0.0037 (ppm)	239.2824
2/23/2018 23:58:00	R1801311-018	Y (360.074 nm)	0.31 (Ratio)	1.69	0.31 (Ratio)	308343.66
2/23/2018 23:58:00	R1801311-018	Y_R (360.074 nm)	0.31 (Ratio)	1.69	0.31 (Ratio)	309022.06
2/23/2018 23:58:00	R1801311-018	Zn (213.857 nm)	0.0160 (ppm)	0.53	0.0160 (ppm)	452.0972
2/24/2018 00:01:20	R1801311-019	Ag (328.068 nm)	-0.0005 u (ppm)	30.14	-0.0006 (ppm)	-160.7093
2/24/2018 00:01:20	R1801311-019	Al (394.401 nm)	15.6342 (ppm)	1.39	15.6342 (ppm)	226247.2304
2/24/2018 00:01:20	R1801311-019	As (188.980 nm)	0.0033 u (ppm)	> 100.00	0.0033 (ppm)	0.4797
2/24/2018 00:01:20	R1801311-019	B (249.772 nm)	0.2868 (ppm)	0.54	0.2868 (ppm)	8806.7071
2/24/2018 00:01:20	R1801311-019	Ba (230.424 nm)	1.0846 (ppm)	0.35	1.0846 (ppm)	37915.2075
2/24/2018 00:01:20	R1801311-019	Be (313.107 nm)	0.0004 (ppm)	2.01	0.0004 (ppm)	9.9574
2/24/2018 00:01:20	R1801311-019	Ca (227.547 nm)	4639.0592 o (ppm)	0.70	4639.0592 (ppm)	324258.2146
2/24/2018 00:01:20	R1801311-019	Cd (214.439 nm)	0.0005 (ppm)	60.50	0.0005 (ppm)	26.4948
2/24/2018 00:01:20	R1801311-019	Co (230.786 nm)	0.0106 (ppm)	5.78	0.0106 (ppm)	107.3722
2/24/2018 00:01:20	R1801311-019	Cr (267.716 nm)	0.0140 (ppm)	0.10	0.0140 (ppm)	674.1843
2/24/2018 00:01:20	R1801311-019	Cu (327.395 nm)	0.0219 (ppm)	0.53	0.0219 (ppm)	1567.3553
2/24/2018 00:01:20	R1801311-019	Fe (234.350 nm)	14.3322 o (ppm)	0.42	14.3322 (ppm)	161297.0843
2/24/2018 00:01:20	R1801311-019	K (766.491 nm)	59.5525 o (ppm)	1.29	59.5525 (ppm)	219082.9982
2/24/2018 00:01:20	R1801311-019	Mg (279.078 nm)	48.9051 (ppm)	0.44	48.9051 (ppm)	100985.3575
2/24/2018 00:01:20	R1801311-019	Mn (257.610 nm)	1.8884 o (ppm)	0.38	1.8884 (ppm)	613026.5859

Date Time	Label	Element Label (nm)	Conc	%RSD	U/adjusted Conc	Intensity
2/24/2018 00:01:20	R1801311-019	Mo (202.032 nm)	0.0072 (ppm)	5.34	0.0072 (ppm)	78.9052
2/24/2018 00:01:20	R1801311-019	Nā (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:01:20	R1801311-019	Ni (230.299 nm)	-0.0055 u (ppm)	32.75	-0.0055 (ppm)	-62.4398
2/24/2018 00:01:20	R1801311-019	Pb (220.353 nm)	0.0117 (ppm)	16.90	0.0117 (ppm)	32.4373
2/24/2018 00:01:20	R1801311-019	Sb (217.582 nm)	0.0035 (ppm)	68.11	0.0035 (ppm)	3.9992
2/24/2018 00:01:20	R1801311-019	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-3.4282
2/24/2018 00:01:20	R1801311-019	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.7139
2/24/2018 00:01:20	R1801311-019	Sr (216.596 nm)	12.3680 o (ppm)	1.03	12.3680 (ppm)	171281.7087
2/24/2018 00:01:20	R1801311-019	Ti (336.122 nm)	0.3196 (ppm)	2.30	0.3196 (ppm)	71221.4554
2/24/2018 00:01:20	R1801311-019	Ti (351.923 nm)	0.1784 (ppm)	2.50	0.1784 (ppm)	552.9488
2/24/2018 00:01:20	R1801311-019	V (292.401 nm)	0.0226 (ppm)	0.37	0.0226 (ppm)	960.9664
2/24/2018 00:01:20	R1801311-019	Y (360.074 nm)	0.68 (Ratio)	0.93	0.68 (Ratio)	669656.76
2/24/2018 00:01:20	R1801311-019	Y_R (360.074 nm)	0.68 (Ratio)	0.93	0.68 (Ratio)	671102.88
2/24/2018 00:01:20	R1801311-019	Zn (213.857 nm)	0.0829 (ppm)	0.68	0.0829 (ppm)	2473.6623
2/24/2018 00:04:41	R1801311-019L	Ag (328.068 nm)	-0.0002 u (ppm)	74.36	-0.0002 (ppm)	-132.0049
2/24/2018 00:04:41	R1801311-019L	Al (394.401 nm)	3.0249 (ppm)	0.34	3.0249 (ppm)	43827.5216
2/24/2018 00:04:41	R1801311-019L	As (188.980 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-3.8865
2/24/2018 00:04:41	R1801311-019L	B (249.772 nm)	0.0561 (ppm)	0.74	0.0561 (ppm)	1793.2104
2/24/2018 00:04:41	R1801311-019L	Ba (230.424 nm)	0.2383 (ppm)	0.35	0.2383 (ppm)	8334.7377
2/24/2018 00:04:41	R1801311-019L	Be (313.107 nm)	0.0001 (ppm)	8.09	0.0001 (ppm)	-451.6830
2/24/2018 00:04:41	R1801311-019L	Ca (227.547 nm)	835.4393 o (ppm)	0.38	835.4393 (ppm)	58401.1653
2/24/2018 00:04:41	R1801311-019L	Cd (214.439 nm)	0.0002 (ppm)	19.77	0.0002 (ppm)	19.7278
2/24/2018 00:04:41	R1801311-019L	Co (230.786 nm)	0.0021 (ppm)	16.00	0.0021 (ppm)	16.6100
2/24/2018 00:04:41	R1801311-019L	Cr (267.716 nm)	0.0033 (ppm)	7.76	0.0033 (ppm)	154.0969
2/24/2018 00:04:41	R1801311-019L	Cu (327.395 nm)	0.0035 (ppm)	2.98	0.0035 (ppm)	276.9935
2/24/2018 00:04:41	R1801311-019L	Fe (234.350 nm)	3.3016 (ppm)	0.17	3.3016 (ppm)	37171.2405
2/24/2018 00:04:41	R1801311-019L	K (766.491 nm)	9.2983 (ppm)	0.73	9.2983 (ppm)	34204.1351
2/24/2018 00:04:41	R1801311-019L	Mg (279.078 nm)	10.8969 (ppm)	0.20	10.8969 (ppm)	22497.8737
2/24/2018 00:04:41	R1801311-019L	Mn (257.610 nm)	0.4121 (ppm)	0.24	0.4121 (ppm)	133768.0519
2/24/2018 00:04:41	R1801311-019L	Mo (202.032 nm)	0.0018 (ppm)	8.58	0.0018 (ppm)	22.7995
2/24/2018 00:04:41	R1801311-019L	Na (588.995 nm)	449.6884 o (ppm)	0.56	449.6884 (ppm)	24307206.4249
2/24/2018 00:04:41	R1801311-019L	Ni (230.299 nm)	-0.0013 u (ppm)	62.26	-0.0013 (ppm)	-32.3263
2/24/2018 00:04:41	R1801311-019L	Pb (220.353 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	7.0787
2/24/2018 00:04:41	R1801311-019L	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.8816
2/24/2018 00:04:41	R1801311-019L	Se (196.026 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	-3.9286
2/24/2018 00:04:41	R1801311-019L	Sn (189.925 nm)	-0.0040 u (ppm)	25.43	-0.0040 (ppm)	-3.8909
2/24/2018 00:04:41	R1801311-019L	Sr (216.596 nm)	2.8289 (ppm)	0.29	2.8289 (ppm)	39173.1083
2/24/2018 00:04:41	R1801311-019L	Ti (336.122 nm)	0.0928 (ppm)	1.94	0.0928 (ppm)	20313.8896
2/24/2018 00:04:41	R1801311-019L	Ti (351.923 nm)	0.0308 (ppm)	10.40	0.0308 (ppm)	110.6115
2/24/2018 00:04:41	R1801311-019L	V (292.401 nm)	0.0055 (ppm)	4.26	0.0055 (ppm)	309.5999
2/24/2018 00:04:41	R1801311-019L	Y (360.074 nm)	0.84 (Ratio)	0.81	0.84 (Ratio)	831009.60
2/24/2018 00:04:41	R1801311-019L	Y_R (360.074 nm)	0.84 (Ratio)	0.81	0.84 (Ratio)	832707.16
2/24/2018 00:04:41	R1801311-019L	Zn (213.857 nm)	0.0165 (ppm)	0.49	0.0165 (ppm)	466.4870
2/24/2018 00:08:02	R1801417-016	Ag (328.068 nm)	-0.0002 u (ppm)	42.73	-0.0002 (ppm)	-130.5956
2/24/2018 00:08:02	R1801417-016	Al (394.401 nm)	10.7988 (ppm)	0.85	10.7988 (ppm)	156293.8051
2/24/2018 00:08:02	R1801417-016	As (188.980 nm)	0.0151 (ppm)	25.61	0.0151 (ppm)	11.5164
2/24/2018 00:08:02	R1801417-016	B (249.772 nm)	0.0884 (ppm)	1.03	0.0884 (ppm)	2775.2183
2/24/2018 00:08:02	R1801417-016	Ba (230.424 nm)	0.1758 (ppm)	1.12	0.1758 (ppm)	6148.3525
2/24/2018 00:08:02	R1801417-016	Be (313.107 nm)	0.0005 (ppm)	0.17	0.0005 (ppm)	107.3668
2/24/2018 00:08:02	R1801417-016	Ca (227.547 nm)	148.9977 o (ppm)	0.78	148.9977 (ppm)	10421.7752
2/24/2018 00:08:02	R1801417-016	Cd (214.439 nm)	0.0007 (ppm)	27.73	0.0007 (ppm)	31.4226

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:08:02	R1801417-016	Co (230.786 nm)	0.0063 (ppm)	6.15	0.0063 (ppm)	61.2476
2/24/2018 00:08:02	R1801417-016	Cr (267.716 nm)	0.0168 (ppm)	0.97	0.0168 (ppm)	807.4177
2/24/2018 00:08:02	R1801417-016	Cu (327.395 nm)	0.0341 (ppm)	0.48	0.0341 (ppm)	2426.7339
2/24/2018 00:08:02	R1801417-016	Fe (234.350 nm)	19.9994 o (ppm)	1.19	19.9994 (ppm)	225069.3927
2/24/2018 00:08:02	R1801417-016	K (766.491 nm)	17.6816 (ppm)	0.65	17.6816 (ppm)	65045.1777
2/24/2018 00:08:02	R1801417-016	Mg (279.078 nm)	64.0628 o (ppm)	1.18	64.0628 (ppm)	132286.1964
2/24/2018 00:08:02	R1801417-016	Mn (257.610 nm)	2.0406 o (ppm)	1.11	2.0406 (ppm)	662433.4824
2/24/2018 00:08:02	R1801417-016	Mo (202.032 nm)	0.0151 (ppm)	4.70	0.0151 (ppm)	161.3736
2/24/2018 00:08:02	R1801417-016	Na (588.895 nm)	60.4901 o (ppm)	0.64	60.4901 (ppm)	3265722.0950
2/24/2018 00:08:02	R1801417-016	Ni (230.299 nm)	0.0099 (ppm)	4.15	0.0099 (ppm)	47.4545
2/24/2018 00:08:02	R1801417-016	Pb (220.353 nm)	0.0437 (ppm)	4.02	0.0437 (ppm)	105.2575
2/24/2018 00:08:02	R1801417-016	Sb (217.582 nm)	-0.0020 u (ppm)	21.40	-0.0020 (ppm)	-4.5990
2/24/2018 00:08:02	R1801417-016	Se (196.026 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	-4.8892
2/24/2018 00:08:02	R1801417-016	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.3203
2/24/2018 00:08:02	R1801417-016	Sr (216.596 nm)	0.3354 (ppm)	1.54	0.3354 (ppm)	4640.0506
2/24/2018 00:08:02	R1801417-016	Ti (336.122 nm)	0.2272 (ppm)	0.35	0.2272 (ppm)	50483.0703
2/24/2018 00:08:02	R1801417-016	Ti (351.923 nm)	0.0046 (ppm)	29.73	0.0046 (ppm)	31.9735
2/24/2018 00:08:02	R1801417-016	V (292.401 nm)	0.0336 (ppm)	1.55	0.0336 (ppm)	1382.8534
2/24/2018 00:08:02	R1801417-016	Y (360.074 nm)	0.95 (Ratio)	0.47	0.95 (Ratio)	940857.70
2/24/2018 00:08:02	R1801417-016	Y_R (360.074 nm)	0.95 (Ratio)	0.47	0.95 (Ratio)	942707.22
2/24/2018 00:08:02	R1801417-016	Zn (213.857 nm)	0.2107 (ppm)	1.41	0.2107 (ppm)	6333.0331
2/24/2018 00:11:22	R1801469-001	Ag (328.068 nm)	-0.0030 u (ppm)	5.44	-0.0030 (ppm)	-351.8305
2/24/2018 00:11:22	R1801469-001	Al (394.401 nm)	0.3969 (ppm)	2.29	0.3969 (ppm)	5808.0505
2/24/2018 00:11:22	R1801469-001	As (188.980 nm)	0.0115 u (ppm)	> 100.00	0.0115 (ppm)	8.1385
2/24/2018 00:11:22	R1801469-001	B (249.772 nm)	29.7581 o (ppm)	0.23	29.7581 (ppm)	904822.8899
2/24/2018 00:11:22	R1801469-001	Ba (230.424 nm)	0.1022 (ppm)	0.55	0.1022 (ppm)	3578.2429
2/24/2018 00:11:22	R1801469-001	Be (313.107 nm)	0.0003 (ppm)	12.48	0.0003 (ppm)	-137.7419
2/24/2018 00:11:22	R1801469-001	Ce (227.547 nm)	34478.4884 o (ppm)	0.72	34478.4884 (ppm)	2409908.9818
2/24/2018 00:11:22	R1801469-001	Cd (214.439 nm)	0.0034 (ppm)	15.46	0.0034 (ppm)	89.5205
2/24/2018 00:11:22	R1801469-001	Co (230.786 nm)	-0.0030 u (ppm)	76.59	-0.0030 (ppm)	-37.9607
2/24/2018 00:11:22	R1801469-001	Cr (267.716 nm)	-0.0032 u (ppm)	14.85	-0.0032 (ppm)	-159.8701
2/24/2018 00:11:22	R1801469-001	Cu (327.395 nm)	0.0210 (ppm)	5.30	0.0210 (ppm)	1503.5365
2/24/2018 00:11:22	R1801469-001	Fe (234.350 nm)	53.6690 o (ppm)	0.29	53.6690 (ppm)	603948.4302
2/24/2018 00:11:22	R1801469-001	K (766.491 nm)	11762.0429 o (ppm)	2.47	11762.0429 (ppm)	43271079.5086
2/24/2018 00:11:22	R1801469-001	Mg (279.078 nm)	1402.9453 o (ppm)	0.64	1402.9453 (ppm)	2897098.3760
2/24/2018 00:11:22	R1801469-001	Mn (257.610 nm)	13.7079 o (ppm)	0.04	13.7079 (ppm)	4449971.5827
2/24/2018 00:11:22	R1801469-001	Mo (202.032 nm)	0.0021 (ppm)	95.92	0.0021 (ppm)	25.1041
2/24/2018 00:11:22	R1801469-001	Na (588.895 nm)	#### (ppm)	↓	N/A	####
2/24/2018 00:11:22	R1801469-001	Ni (230.299 nm)	-0.0088 u (ppm)	23.69	-0.0088 (ppm)	-86.3347
2/24/2018 00:11:22	R1801469-001	Pb (220.353 nm)	0.0126 u (ppm)	↓	> 100.00	34.4504
2/24/2018 00:11:22	R1801469-001	Sb (217.582 nm)	0.0138 u (ppm)	89.89	0.0138 (ppm)	20.5450
2/24/2018 00:11:22	R1801469-001	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-2.9333
2/24/2018 00:11:22	R1801469-001	Sn (189.925 nm)	-0.0072 u (ppm)	> 100.00	-0.0072 (ppm)	-7.7667
2/24/2018 00:11:22	R1801469-001	Sr (216.596 nm)	161.9834 o (ppm)	1.06	161.9834 (ppm)	2243320.6681
2/24/2018 00:11:22	R1801469-001	Ti (336.122 nm)	0.5714 (ppm)	0.72	0.5714 (ppm)	127749.2508
2/24/2018 00:11:22	R1801469-001	Ti (351.923 nm)	1.1544 (ppm)	2.21	1.1544 (ppm)	3478.1060
2/24/2018 00:11:22	R1801469-001	V (292.401 nm)	0.0104 (ppm)	5.64	0.0104 (ppm)	497.3298
2/24/2018 00:11:22	R1801469-001	Y (360.074 nm)	0.27 (Ratio)	1.80	0.27 (Ratio)	268417.22
2/24/2018 00:11:22	R1801469-001	Y_R (360.074 nm)	0.27 (Ratio)	1.80	0.27 (Ratio)	269020.74
2/24/2018 00:11:22	R1801469-001	Zn (213.857 nm)	0.0482 (ppm)	0.64	0.0482 (ppm)	1425.2400
2/24/2018 00:14:43	R1801469-002	Ag (328.068 nm)	-0.0004 u (ppm)	28.84	-0.0004 (ppm)	-149.9947

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:14:43	R1801469-002	Al (394.401 nm)	0.1495 (ppm)	1.89	0.1495 (ppm)	2229.8040
2/24/2018 00:14:43	R1801469-002	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-3.5326
2/24/2018 00:14:43	R1801469-002	B (249.772 nm)	0.0156 (ppm)	9.09	0.0156 (ppm)	560.1227
2/24/2018 00:14:43	R1801469-002	Ba (230.424 nm)	1.2099 (ppm)	0.25	1.2099 (ppm)	42296.1305
2/24/2018 00:14:43	R1801469-002	Be (313.107 nm)	0.0000 (ppm)	3.35	0.0000 (ppm)	-544.4512
2/24/2018 00:14:43	R1801469-002	Ca (227.547 nm)	4222.7784 o (ppm)	0.50	4222.7784 (ppm)	295161.9406
2/24/2018 00:14:43	R1801469-002	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	17.2106
2/24/2018 00:14:43	R1801469-002	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.9034
2/24/2018 00:14:43	R1801469-002	Cr (267.716 nm)	0.0002 (ppm)	81.68	0.0002 (ppm)	4.1481
2/24/2018 00:14:43	R1801469-002	Cu (327.395 nm)	0.0076 (ppm)	2.81	0.0076 (ppm)	558.8595
2/24/2018 00:14:43	R1801469-002	Fe (234.350 nm)	0.0446 (ppm)	22.34	0.0446 (ppm)	521.4938
2/24/2018 00:14:43	R1801469-002	K (766.491 nm)	176.4708 o (ppm)	0.60	176.4708 (ppm)	649210.9190
2/24/2018 00:14:43	R1801469-002	Mg (279.078 nm)	0.4289 (ppm)	73.00	0.4289 (ppm)	881.3821
2/24/2018 00:14:43	R1801469-002	Mn (257.610 nm)	0.0032 (ppm)	65.47	0.0032 (ppm)	1034.3642
2/24/2018 00:14:43	R1801469-002	Mo (202.032 nm)	0.0030 (ppm)	16.61	0.0030 (ppm)	35.4390
2/24/2018 00:14:43	R1801469-002	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:14:43	R1801469-002	Ni (230.299 nm)	0.0243 (ppm)	6.08	0.0243 (ppm)	150.4192
2/24/2018 00:14:43	R1801469-002	Pb (220.353 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	8.2361
2/24/2018 00:14:43	R1801469-002	Sb (217.582 nm)	0.0062 (ppm)	33.40	0.0062 (ppm)	8.4300
2/24/2018 00:14:43	R1801469-002	Se (196.026 nm)	-0.0054 u (ppm)	58.73	-0.0054 (ppm)	-6.9963
2/24/2018 00:14:43	R1801469-002	Sn (189.925 nm)	-0.0030 u (ppm)	81.26	-0.0030 (ppm)	-2.6678
2/24/2018 00:14:43	R1801469-002	Sr (216.596 nm)	15.8581 o (ppm)	0.38	15.8581 (ppm)	219616.5010
2/24/2018 00:14:43	R1801469-002	Ti (336.122 nm)	0.0241 (ppm)	0.66	0.0241 (ppm)	4893.4375
2/24/2018 00:14:43	R1801469-002	Tl (351.923 nm)	0.1650 (ppm)	2.78	0.1650 (ppm)	512.6026
2/24/2018 00:14:43	R1801469-002	V (292.401 nm)	0.0004 (ppm)	59.55	0.0004 (ppm)	113.0198
2/24/2018 00:14:43	R1801469-002	Y (360.074 nm)	0.69 (Ratio)	0.86	0.69 (Ratio)	685773.39
2/24/2018 00:14:43	R1801469-002	Y_R (360.074 nm)	0.69 (Ratio)	0.86	0.69 (Ratio)	687255.99
2/24/2018 00:14:43	R1801469-002	Zn (213.857 nm)	0.0217 (ppm)	0.79	0.0217 (ppm)	622.9724
2/24/2018 00:18:05	R1801469-003	Ag (328.068 nm)	-0.0012 u (ppm)	22.96	-0.0012 (ppm)	-212.3096
2/24/2018 00:18:05	R1801469-003	Al (394.401 nm)	0.1006 (ppm)	3.79	0.1006 (ppm)	1521.7913
2/24/2018 00:18:05	R1801469-003	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.6291
2/24/2018 00:18:05	R1801469-003	B (249.772 nm)	0.0087 (ppm)	6.21	0.0087 (ppm)	352.8341
2/24/2018 00:18:05	R1801469-003	Ba (230.424 nm)	2.7371 (ppm)	1.26	2.7371 (ppm)	95677.6875
2/24/2018 00:18:05	R1801469-003	Be (313.107 nm)	0.0001 (ppm)	7.93	0.0001 (ppm)	-382.9681
2/24/2018 00:18:05	R1801469-003	Ca (227.547 nm)	14076.4427 o (ppm)	0.73	14076.4427 (ppm)	983891.6813
2/24/2018 00:18:05	R1801469-003	Cd (214.439 nm)	0.0004 (ppm)	56.06	0.0004 (ppm)	23.7443
2/24/2018 00:18:05	R1801469-003	Co (230.786 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-9.2332
2/24/2018 00:18:05	R1801469-003	Cr (267.716 nm)	-0.0004 u (ppm)	88.32	-0.0004 (ppm)	-22.2525
2/24/2018 00:18:05	R1801469-003	Cu (327.395 nm)	0.0063 (ppm)	11.40	0.0063 (ppm)	469.3133
2/24/2018 00:18:05	R1801469-003	Fe (234.350 nm)	0.0183 (ppm)	3.39	0.0183 (ppm)	224.6222
2/24/2018 00:18:05	R1801469-003	K (766.491 nm)	385.9030 o (ppm)	0.98	385.9030 (ppm)	1419685.8767
2/24/2018 00:18:05	R1801469-003	Mg (279.078 nm)	0.0295 (ppm)	11.38	0.0295 (ppm)	56.6170
2/24/2018 00:18:05	R1801469-003	Mn (257.610 nm)	0.0004 (ppm)	7.68	0.0004 (ppm)	136.9225
2/24/2018 00:18:05	R1801469-003	Mo (202.032 nm)	0.0031 (ppm)	17.85	0.0031 (ppm)	36.0432
2/24/2018 00:18:05	R1801469-003	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:18:05	R1801469-003	Ni (230.299 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-34.4913
2/24/2018 00:18:05	R1801469-003	Pb (220.353 nm)	0.0020 (ppm)	68.85	0.0020 (ppm)	10.3818
2/24/2018 00:18:05	R1801469-003	Sb (217.582 nm)	0.0046 u (ppm)	> 100.00	0.0046 (ppm)	5.8407
2/24/2018 00:18:05	R1801469-003	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.4227
2/24/2018 00:18:05	R1801469-003	Sn (189.925 nm)	-0.0055 u (ppm)	72.09	-0.0055 (ppm)	-5.7290
2/24/2018 00:18:05	R1801469-003	Sr (216.596 nm)	29.1157 o (ppm)	0.40	29.1157 (ppm)	403221.8518

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:18:05	R1801469-003	Ti (336.122 nm)	0.1018 (ppm)	0.28	0.1018 (ppm)	22324.1929
2/24/2018 00:18:05	R1801469-003	Ti (351.923 nm)	0.4903 (ppm)	1.03	0.4903 (ppm)	1487.8620
2/24/2018 00:18:05	R1801469-003	V (292.401 nm)	0.0009 (ppm)	50.16	0.0009 (ppm)	131.3048
2/24/2018 00:18:05	R1801469-003	Y (360.074 nm)	0.51 (Ratio)	1.46	0.51 (Ratio)	504029.40
2/24/2018 00:18:05	R1801469-003	Y_R (360.074 nm)	0.51 (Ratio)	1.46	0.51 (Ratio)	505155.78
2/24/2018 00:18:05	R1801469-003	Zn (213.857 nm)	0.0022 (ppm)	4.98	0.0022 (ppm)	35.0993
2/24/2018 00:21:25	R1701469-004	Ag (328.068 nm)	-0.0005 u (ppm)	34.59	-0.0005 (ppm)	-157.9084
2/24/2018 00:21:25	R1701469-004	Al (394.401 nm)	0.7398 (ppm)	12.07	0.7398 (ppm)	10768.6325
2/24/2018 00:21:25	R1701469-004	As (188.980 nm)	0.0048 u (ppm)	> 100.00	0.0048 (ppm)	1.8474
2/24/2018 00:21:25	R1701469-004	B (249.772 nm)	1.2569 (ppm)	7.93	1.2569 (ppm)	38302.0619
2/24/2018 00:21:25	R1701469-004	Ba (230.424 nm)	0.0308 (ppm)	7.68	0.0308 (ppm)	1081.1488
2/24/2018 00:21:25	R1701469-004	Be (313.107 nm)	0.0000 u (ppm)	45.54	0.0000 (ppm)	-642.1243
2/24/2018 00:21:25	R1701469-004	Ca (227.547 nm)	5748.0680 o (ppm)	11.91	5748.0680 (ppm)	401773.2722
2/24/2018 00:21:25	R1701469-004	Cd (214.439 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	10.5362
2/24/2018 00:21:25	R1701469-004	Co (230.786 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-12.6759
2/24/2018 00:21:25	R1701469-004	Cr (267.716 nm)	-0.0010 u (ppm)	20.93	-0.0010 (ppm)	-55.5889
2/24/2018 00:21:25	R1701469-004	Cu (327.395 nm)	0.0042 (ppm)	15.59	0.0042 (ppm)	326.3289
2/24/2018 00:21:25	R1701469-004	Fe (234.350 nm)	2.5177 (ppm)	1.49	2.5177 (ppm)	28350.5008
2/24/2018 00:21:25	R1701469-004	K (766.491 nm)	1265.7294 o (ppm)	18.10	1265.7294 (ppm)	4656457.0182
2/24/2018 00:21:25	R1701469-004	Mg (279.078 nm)	200.4499 o (ppm)	1.35	200.4499 (ppm)	413927.5885
2/24/2018 00:21:25	R1701469-004	Mn (257.610 nm)	1.8977 o (ppm)	2.95	1.8977 (ppm)	616052.4702
2/24/2018 00:21:25	R1701469-004	Mo (202.032 nm)	0.0010 (ppm)	39.50	0.0010 (ppm)	13.7371
2/24/2018 00:21:25	R1701469-004	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:21:25	R1701469-004	Ni (230.299 nm)	-0.0032 u (ppm)	31.79	-0.0032 (ppm)	-46.0523
2/24/2018 00:21:25	R1701469-004	Pb (220.353 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	7.2871
2/24/2018 00:21:25	R1701469-004	Sb (217.582 nm)	0.0019 (ppm)	60.89	0.0019 (ppm)	1.6107
2/24/2018 00:21:25	R1701469-004	Se (196.026 nm)	-0.0114 u (ppm)	23.19	-0.0114 (ppm)	-12.6904
2/24/2018 00:21:25	R1701469-004	Sn (189.925 nm)	-0.0074 u (ppm)	27.79	-0.0074 (ppm)	-8.0096
2/24/2018 00:21:25	R1701469-004	Sr (216.596 nm)	26.9801 o (ppm)	1.81	26.9801 (ppm)	373645.8747
2/24/2018 00:21:25	R1701469-004	Ti (336.122 nm)	0.0701 (ppm)	15.26	0.0701 (ppm)	15205.2074
2/24/2018 00:21:25	R1701469-004	Ti (351.923 nm)	0.1305 (ppm)	16.32	0.1305 (ppm)	409.3017
2/24/2018 00:21:25	R1701469-004	V (292.401 nm)	0.0036 (ppm)	11.94	0.0036 (ppm)	235.0700
2/24/2018 00:21:25	R1701469-004	Y (360.074 nm)	0.30 (Ratio)	6.60	0.30 (Ratio)	296391.67
2/24/2018 00:21:25	R1701469-004	Y_R (360.074 nm)	0.30 (Ratio)	6.60	0.30 (Ratio)	297054.99
2/24/2018 00:21:25	R1701469-004	Zn (213.857 nm)	0.0093 (ppm)	8.79	0.0093 (ppm)	250.5729
2/24/2018 00:24:46	Continuing Calibration Verification1	Ag (328.068 nm)	0.4798 (ppm)	0.09	0.4798 (ppm)	37146.3322
2/24/2018 00:24:46	Continuing Calibration Verification1	Al (394.401 nm)	9.4016 (ppm)	0.10	9.4016 (ppm)	136079.8371
2/24/2018 00:24:46	Continuing Calibration Verification1	As (188.980 nm)	0.9691 (ppm)	0.71	0.9691 (ppm)	904.9444
2/24/2018 00:24:46	Continuing Calibration Verification1	B (249.772 nm)	2.4594 (ppm)	0.10	2.4594 (ppm)	74859.7299
2/24/2018 00:24:46	Continuing Calibration Verification1	Ba (230.424 nm)	10.4155 (ppm)	0.26	10.4155 (ppm)	364070.3675
2/24/2018 00:24:46	Continuing Calibration Verification1	Be (313.107 nm)	0.2586 (ppm)	0.18	0.2586 (ppm)	389299.8872
2/24/2018 00:24:46	Continuing Calibration Verification1	Ca (227.547 nm)	23.5650 (ppm)	0.33	23.5650 (ppm)	1654.5615
2/24/2018 00:24:46	Continuing Calibration Verification1	Cd (214.439 nm)	0.5133 (ppm)	0.29	0.5133 (ppm)	11020.3511
2/24/2018 00:24:46	Continuing Calibration Verification1	Co (230.786 nm)	2.6108 (ppm)	0.34	2.6108 (ppm)	27795.0390
2/24/2018 00:24:46	Continuing Calibration Verification1	Cr (267.716 nm)	0.5410 (ppm)	0.29	0.5410 (ppm)	26163.2321
2/24/2018 00:24:46	Continuing Calibration Verification1	Cu (327.395 nm)	1.1874 (ppm)	0.32	1.1874 (ppm)	83485.4213
2/24/2018 00:24:46	Continuing Calibration Verification1	Fe (234.350 nm)	5.1618 (ppm)	0.27	5.1618 (ppm)	58104.2871
2/24/2018 00:24:46	Continuing Calibration Verification1	K (766.491 nm)	24.2080 (ppm)	0.26	24.2080 (ppm)	89055.2612
2/24/2018 00:24:46	Continuing Calibration Verification1	Mg (279.078 nm)	25.6017 (ppm)	0.16	25.6017 (ppm)	52863.4657
2/24/2018 00:24:46	Continuing Calibration Verification1	Mn (257.610 nm)	0.7806 (ppm)	0.20	0.7806 (ppm)	253418.8643
2/24/2018 00:24:46	Continuing Calibration Verification1	Mo (202.032 nm)	2.4415 (ppm)	0.24	2.4415 (ppm)	25569.5508



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:24:46	Continuing Calibration Verification1	Na (588.995 nm)	27.2792 (ppm)	1.09	27.2792 (ppm)	1470220.1583
2/24/2018 00:24:46	Continuing Calibration Verification1	Ni (230.299 nm)	2.0942 (ppm)	0.33	2.0942 (ppm)	14919.6998
2/24/2018 00:24:46	Continuing Calibration Verification1	Pb (220.353 nm)	0.5066 (ppm)	0.12	0.5066 (ppm)	1160.8768
2/24/2018 00:24:46	Continuing Calibration Verification1	Sb (217.582 nm)	4.8080 (ppm)	0.19	4.8080 (ppm)	7650.1759
2/24/2018 00:24:46	Continuing Calibration Verification1	Se (196.026 nm)	0.4837 (ppm)	0.51	0.4837 (ppm)	458.2685
2/24/2018 00:24:46	Continuing Calibration Verification1	Sn (189.925 nm)	5.1313 (ppm)	0.41	5.1313 (ppm)	6322.8855
2/24/2018 00:24:46	Continuing Calibration Verification1	Sr (216.596 nm)	2.6613 (ppm)	0.37	2.6613 (ppm)	3685.15961
2/24/2018 00:24:46	Continuing Calibration Verification1	Ti (336.122 nm)	2.4831 (ppm)	0.62	2.4831 (ppm)	556846.1879
2/24/2018 00:24:46	Continuing Calibration Verification1	Tl (351.923 nm)	0.9684 (ppm)	0.24	0.9684 (ppm)	2920.5820
2/24/2018 00:24:46	Continuing Calibration Verification1	V (292.401 nm)	2.5233 (ppm)	0.14	2.5233 (ppm)	96607.7933
2/24/2018 00:24:46	Continuing Calibration Verification1	Y (360.074 nm)	0.95 (Ratio)	0.55	0.95 (Ratio)	939133.23
2/24/2018 00:24:46	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95 (Ratio)	0.55	0.95 (Ratio)	940937.96
2/24/2018 00:24:46	Continuing Calibration Verification1	Zn (213.857 nm)	1.0178 (ppm)	0.22	1.0178 (ppm)	30717.7717
2/24/2018 00:28:06	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u (ppm)	24.75	-0.0002 (ppm)	-130.5306
2/24/2018 00:28:06	Continuing Calibration Blank1	Al (394.401 nm)	0.0069 (ppm)	5.41	0.0069 (ppm)	166.7092
2/24/2018 00:28:06	Continuing Calibration Blank1	As (188.980 nm)	0.0015 (ppm)	45.60	0.0015 (ppm)	-1.2547
2/24/2018 00:28:06	Continuing Calibration Blank1	B (249.772 nm)	0.0034 (ppm)	6.66	0.0034 (ppm)	191.6257
2/24/2018 00:28:06	Continuing Calibration Blank1	Ba (230.424 nm)	0.0036 (ppm)	3.95	0.0036 (ppm)	131.8464
2/24/2018 00:28:06	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	7.47	0.0001 (ppm)	-413.3970
2/24/2018 00:28:06	Continuing Calibration Blank1	Ca (227.547 nm)	0.0502 (ppm)	23.32	0.0502 (ppm)	10.9709
2/24/2018 00:28:06	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 (ppm)	70.86	0.0002 (ppm)	20.3486
2/24/2018 00:28:06	Continuing Calibration Blank1	Co (230.786 nm)	0.0008 (ppm)	45.77	0.0008 (ppm)	3.2499
2/24/2018 00:28:06	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 (ppm)	65.46	0.0001 (ppm)	1.2694
2/24/2018 00:28:06	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002 (ppm)	37.51	0.0002 (ppm)	43.5841
2/24/2018 00:28:06	Continuing Calibration Blank1	Fe (234.350 nm)	0.0032 (ppm)	3.59	0.0032 (ppm)	55.6286
2/24/2018 00:28:06	Continuing Calibration Blank1	K (766.491 nm)	0.0533 (ppm)	23.55	0.0533 (ppm)	192.8891
2/24/2018 00:28:06	Continuing Calibration Blank1	Mg (279.078 nm)	0.0124 (ppm)	12.87	0.0124 (ppm)	21.3425
2/24/2018 00:28:06	Continuing Calibration Blank1	Mn (257.610 nm)	0.0003 (ppm)	7.83	0.0003 (ppm)	99.1388
2/24/2018 00:28:06	Continuing Calibration Blank1	Mo (202.032 nm)	0.0032 (ppm)	5.06	0.0032 (ppm)	37.5246
2/24/2018 00:28:06	Continuing Calibration Blank1	Na (588.995 nm)	0.2476 (ppm)	11.10	0.2476 (ppm)	8792.8391
2/24/2018 00:28:06	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006 (ppm)	87.99	0.0006 (ppm)	-19.1128
2/24/2018 00:28:06	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.6060
2/24/2018 00:28:06	Continuing Calibration Blank1	Sb (217.582 nm)	0.0055 (ppm)	6.87	0.0055 (ppm)	7.1838
2/24/2018 00:28:06	Continuing Calibration Blank1	Se (196.026 nm)	0.0020 (ppm)	61.12	0.0020 (ppm)	0.0047
2/24/2018 00:28:06	Continuing Calibration Blank1	Sn (189.925 nm)	0.0013 (ppm)	63.43	0.0013 (ppm)	2.6627
2/24/2018 00:28:06	Continuing Calibration Blank1	Sr (216.596 nm)	0.0016 (ppm)	15.53	0.0016 (ppm)	18.0007
2/24/2018 00:28:06	Continuing Calibration Blank1	Ti (336.122 nm)	0.0013 (ppm)	4.40	0.0013 (ppm)	-231.9890
2/24/2018 00:28:06	Continuing Calibration Blank1	Tl (351.923 nm)	0.0022 (ppm)	89.95	0.0022 (ppm)	24.7902
2/24/2018 00:28:06	Continuing Calibration Blank1	V (292.401 nm)	0.0009 (ppm)	12.49	0.0009 (ppm)	131.8682
2/24/2018 00:28:06	Continuing Calibration Blank1	Y (360.074 nm)	1.00 (Ratio)	0.31	1.00 (Ratio)	987198.12
2/24/2018 00:28:06	Continuing Calibration Blank1	Y_R (360.074 nm)	1.00 (Ratio)	0.31	1.00 (Ratio)	988998.34
2/24/2018 00:28:06	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	7.94	0.0003 (ppm)	-23.1985
2/24/2018 00:31:27	R1801469-004S	Ag (328.068 nm)	0.0230 (ppm)	8.22	0.0230 (ppm)	1673.4706
2/24/2018 00:31:27	R1801469-004S	Al (394.401 nm)	6.5993 (ppm)	11.96	6.5993 (ppm)	95539.3017
2/24/2018 00:31:27	R1801469-004S	As (188.980 nm)	0.0425 (ppm)	8.17	0.0425 (ppm)	37.2017
2/24/2018 00:31:27	R1801469-004S	B (249.772 nm)	2.5907 (ppm)	2.52	2.5907 (ppm)	78852.9323
2/24/2018 00:31:27	R1801469-004S	Ba (230.424 nm)	1.4891 (ppm)	6.31	1.4891 (ppm)	52054.4609
2/24/2018 00:31:27	R1801469-004S	Be (313.107 nm)	0.0248 (ppm)	9.13	0.0248 (ppm)	36760.0287
2/24/2018 00:31:27	R1801469-004S	Ca (227.547 nm)	5969.3963 (ppm)	9.39	5969.3963 (ppm)	417243.1927
2/24/2018 00:31:27	R1801469-004S	Cd (214.439 nm)	0.0011 (ppm)	59.11	0.0011 (ppm)	39.1144
2/24/2018 00:31:27	R1801469-004S	Co (230.786 nm)	0.2539 (ppm)	6.28	0.2539 (ppm)	2698.2758

Date Time	Label	Element Label (nm)	Conc.	%RSD	Unadjusted Conc.	Intensity
2/24/2018 00:31:27	R1801469-004S	Cr (267.716 nm)	0.1275 (ppm)	6.13	0.1275 (ppm)	6161.0795
2/24/2018 00:31:27	R1801469-004S	Cu (327.395 nm)	0.5381 (ppm)	10.35	0.5381 (ppm)	37849.7958
2/24/2018 00:31:27	R1801469-004S	Fe (234.350 nm)	3.3599 (ppm)	6.73	3.3599 (ppm)	37827.6264
2/24/2018 00:31:27	R1801469-004S	K (766.491 nm)	1333.1692 o (ppm)	21.95	1333.1692 (ppm)	4904559.3331
2/24/2018 00:31:27	R1801469-004S	Mg (279.078 nm)	223.7038 o (ppm)	10.96	223.7038 (ppm)	461947.3504
2/24/2018 00:31:27	R1801469-004S	Mn (257.610 nm)	2.3577 o (ppm)	4.61	2.3577 (ppm)	765364.4942
2/24/2018 00:31:27	R1801469-004S	Mo (202.032 nm)	0.3297 (ppm)	4.70	0.3297 (ppm)	3456.1300
2/24/2018 00:31:27	R1801469-004S	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:31:27	R1801469-004S	Ni (230.299 nm)	0.2154 (ppm)	8.91	0.2154 (ppm)	1513.7175
2/24/2018 00:31:27	R1801469-004S	Pb (220.353 nm)	0.0295 (ppm) ^	9.68	0.0295 (ppm)	72.9292
2/24/2018 00:31:27	R1801469-004S	Sb (217.582 nm)	0.6891 (ppm)	5.53	0.6891 (ppm)	1095.1815
2/24/2018 00:31:27	R1801469-004S	Se (196.026 nm)	1.1058 o (ppm)	0.88	1.1058 (ppm)	1050.0708
2/24/2018 00:31:27	R1801469-004S	Sn (189.925 nm)	2.4014 (ppm)	5.61	2.4014 (ppm)	2959.6424
2/24/2018 00:31:27	R1801469-004S	Sr (216.596 nm)	31.5668 o (ppm)	4.38	31.5668 (ppm)	437167.2959
2/24/2018 00:31:27	R1801469-004S	Ti (336.122 nm)	0.5213 (ppm)	1.63	0.5213 (ppm)	116488.3272
2/24/2018 00:31:27	R1801469-004S	Ti (351.923 nm)	4.8526 o (ppm)	10.09	4.8526 (ppm)	14562.8707
2/24/2018 00:31:27	R1801469-004S	V (292.401 nm)	0.3901 (ppm)	2.50	0.3901 (ppm)	15018.0263
2/24/2018 00:31:27	R1801469-004S	Y (360.074 nm)	0.28 (Ratio)	4.29	0.28 (Ratio)	280357.72
2/24/2018 00:31:27	R1801469-004S	Y_R (360.074 nm)	0.28 (Ratio)	4.29	0.28 (Ratio)	280995.04
2/24/2018 00:31:27	R1801469-004S	Zn (213.857 nm)	0.7572 (ppm)	2.00	0.7572 (ppm)	22844.0751
2/24/2018 00:34:47	R1801469-004SD	Ag (328.068 nm)	0.0214 (ppm)	1.72	0.0214 (ppm)	1549.4284
2/24/2018 00:34:47	R1801469-004SD	Al (394.401 nm)	6.9928 (ppm)	2.82	6.9928 (ppm)	101231.6980
2/24/2018 00:34:47	R1801469-004SD	As (188.980 nm)	0.0405 (ppm)	3.20	0.0405 (ppm)	35.2925
2/24/2018 00:34:47	R1801469-004SD	B (249.772 nm)	2.6193 (ppm)	1.14	2.6193 (ppm)	79721.7078
2/24/2018 00:34:47	R1801469-004SD	Ba (230.424 nm)	1.4807 (ppm)	2.94	1.4807 (ppm)	51759.8485
2/24/2018 00:34:47	R1801469-004SD	Be (313.107 nm)	0.0237 (ppm)	3.75	0.0237 (ppm)	35186.3692
2/24/2018 00:34:47	R1801469-004SD	Ca (227.547 nm)	6176.0443 o (ppm)	2.05	6176.0443 (ppm)	431687.0179
2/24/2018 00:34:47	R1801469-004SD	Cd (214.439 nm)	0.0015 (ppm)	14.31	0.0015 (ppm)	47.8421
2/24/2018 00:34:47	R1801469-004SD	Co (230.786 nm)	0.2488 (ppm)	4.27	0.2488 (ppm)	2643.5468
2/24/2018 00:34:47	R1801469-004SD	Cr (267.716 nm)	0.1236 (ppm)	2.49	0.1236 (ppm)	5973.7552
2/24/2018 00:34:47	R1801469-004SD	Cu (327.395 nm)	0.5615 (ppm)	2.18	0.5615 (ppm)	39492.4341
2/24/2018 00:34:47	R1801469-004SD	Fe (234.350 nm)	3.2376 (ppm)	3.25	3.2376 (ppm)	36451.4204
2/24/2018 00:34:47	R1801469-004SD	K (766.491 nm)	1430.2000 o (ppm)	5.61	1430.2000 (ppm)	5261523.4073
2/24/2018 00:34:47	R1801469-004SD	Mg (279.078 nm)	212.0018 o (ppm)	4.58	212.0018 (ppm)	437782.5601
2/24/2018 00:34:47	R1801469-004SD	Mn (257.610 nm)	2.3152 o (ppm)	2.77	2.3152 (ppm)	751567.8492
2/24/2018 00:34:47	R1801469-004SD	Mo (202.032 nm)	0.3229 (ppm)	2.64	0.3229 (ppm)	3384.8099
2/24/2018 00:34:47	R1801469-004SD	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:34:47	R1801469-004SD	Ni (230.299 nm)	0.2081 (ppm)	5.73	0.2081 (ppm)	1461.8697
2/24/2018 00:34:47	R1801469-004SD	Pb (220.353 nm)	0.0288 (ppm)	18.20	0.0288 (ppm)	71.3722
2/24/2018 00:34:47	R1801469-004SD	Sb (217.582 nm)	0.7004 (ppm)	1.58	0.7004 (ppm)	1113.1059
2/24/2018 00:34:47	R1801469-004SD	Se (196.026 nm)	1.1114 o (ppm)	1.45	1.1114 (ppm)	1055.4636
2/24/2018 00:34:47	R1801469-004SD	Sn (189.925 nm)	2.3759 (ppm)	5.19	2.3759 (ppm)	2928.1499
2/24/2018 00:34:47	R1801469-004SD	Sr (216.596 nm)	30.3138 o (ppm)	3.87	30.3138 (ppm)	419815.2073
2/24/2018 00:34:47	R1801469-004SD	Ti (336.122 nm)	0.5247 (ppm)	1.33	0.5247 (ppm)	117254.1344
2/24/2018 00:34:47	R1801469-004SD	Ti (351.923 nm)	5.0981 o (ppm)	2.20	5.0981 (ppm)	15298.5173
2/24/2018 00:34:47	R1801469-004SD	V (292.401 nm)	0.3865 (ppm)	2.38	0.3865 (ppm)	14880.4605
2/24/2018 00:34:47	R1801469-004SD	Y (360.074 nm)	0.28 (Ratio)	1.53	0.28 (Ratio)	280644.72
2/24/2018 00:34:47	R1801469-004SD	Y_R (360.074 nm)	0.28 (Ratio)	1.53	0.28 (Ratio)	281285.08
2/24/2018 00:34:47	R1801469-004SD	Zn (213.857 nm)	0.7675 (ppm)	1.57	0.7675 (ppm)	23156.4531
2/24/2018 00:38:08	R1801469-004A	Ag (328.068 nm)	0.1085 (ppm)	2.08	0.1085 (ppm)	8306.3710
2/24/2018 00:38:08	R1801469-004A	Al (394.401 nm)	6.6529 (ppm)	2.33	6.6529 (ppm)	96314.0941

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:38:08	R1801469-004A	As (188.980 nm)	0.0371 (ppm)	4.00	0.0371 (ppm)	32.1048
2/24/2018 00:38:08	R1801469-004A	B (249.772 nm)	2.5268 (ppm)	0.68	2.5268 (ppm)	76910.4441
2/24/2018 00:38:08	R1801469-004A	Ba (230.424 nm)	1.4513 (ppm)	2.42	1.4513 (ppm)	50732.2382
2/24/2018 00:38:08	R1801469-004A	Be (313.107 nm)	0.0227 (ppm)	3.64	0.0227 (ppm)	33639.6448
2/24/2018 00:38:08	R1801469-004A	Ca (227.547 nm)	5964.2413 o (ppm)	1.58	5964.2413 (ppm)	416882.8778
2/24/2018 00:38:08	R1801469-004A	Cd (214.439 nm)	0.0187 (ppm)	13.40	0.0187 (ppm)	417.1535
2/24/2018 00:38:08	R1801469-004A	Co (230.786 nm)	0.2376 (ppm)	3.79	0.2376 (ppm)	2524.0816
2/24/2018 00:38:08	R1801469-004A	Cr (267.716 nm)	0.1180 (ppm)	3.29	0.1180 (ppm)	5702.6569
2/24/2018 00:38:08	R1801469-004A	Cu (327.395 nm)	0.5380 (ppm)	2.06	0.5380 (ppm)	37843.8090
2/24/2018 00:38:08	R1801469-004A	Fe (234.350 nm)	3.0868 (ppm)	2.88	3.0868 (ppm)	34754.5572
2/24/2018 00:38:08	R1801469-004A	K (766.491 nm)	1402.4794 o (ppm)	4.76	1402.4794 (ppm)	5159543.1424
2/24/2018 00:38:08	R1801469-004A	Mg (279.078 nm)	203.2837 o (ppm)	4.15	203.2837 (ppm)	419779.5437
2/24/2018 00:38:08	R1801469-004A	Mn (257.610 nm)	2.2393 o (ppm)	2.34	2.2393 (ppm)	726953.8726
2/24/2018 00:38:08	R1801469-004A	Mo (202.032 nm)	0.3085 (ppm)	1.90	0.3085 (ppm)	3233.8245
2/24/2018 00:38:08	R1801469-004A	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:38:08	R1801469-004A	Ni (230.299 nm)	0.2018 (ppm)	3.93	0.2018 (ppm)	1416.7452
2/24/2018 00:38:08	R1801469-004A	Pb (220.353 nm)	0.2377 (ppm)	5.03	0.2377 (ppm)	547.7168
2/24/2018 00:38:08	R1801469-004A	Sb (217.582 nm)	0.7232 (ppm)	1.14	0.7232 (ppm)	1149.4493
2/24/2018 00:38:08	R1801469-004A	Se (196.026 nm)	1.1430 o (ppm)	0.62	1.1430 (ppm)	1085.4747
2/24/2018 00:38:08	R1801469-004A	Sn (189.925 nm)	2.4414 (ppm)	1.84	2.4414 (ppm)	3008.9488
2/24/2018 00:38:08	R1801469-004A	Sr (216.596 nm)	30.4676 o (ppm)	6.68	30.4676 (ppm)	421944.7268
2/24/2018 00:38:08	R1801469-004A	Ti (336.122 nm)	0.5063 (ppm)	0.58	0.5063 (ppm)	113133.0429
2/24/2018 00:38:08	R1801469-004A	Tl (351.923 nm)	4.9215 o (ppm)	1.90	4.9215 (ppm)	14769.1473
2/24/2018 00:38:08	R1801469-004A	V (292.401 nm)	0.3704 (ppm)	1.98	0.3704 (ppm)	14266.8139
2/24/2018 00:38:08	R1801469-004A	Y (360.074 nm)	0.29 (Ratio)	0.53	0.29 (Ratio)	283223.37
2/24/2018 00:38:08	R1801469-004A	Y_R (360.074 nm)	0.29 (Ratio)	0.53	0.29 (Ratio)	283870.46
2/24/2018 00:38:08	R1801469-004A	Zn (213.857 nm)	0.7607 (ppm)	1.08	0.7607 (ppm)	22951.3704
2/24/2018 00:41:28	R1801469-004L	Ag (328.068 nm)	-0.0002 u (ppm)	7.95	-0.0002 (ppm)	-127.9513
2/24/2018 00:41:28	R1801469-004L	Al (394.401 nm)	0.1113 (ppm)	2.37	0.1113 (ppm)	1676.0023
2/24/2018 00:41:28	R1801469-004L	As (188.980 nm)	0.0043 (ppm)	48.56	0.0043 (ppm)	1.3684
2/24/2018 00:41:28	R1801469-004L	B (249.772 nm)	0.2236 (ppm)	0.66	0.2236 (ppm)	6885.1552
2/24/2018 00:41:28	R1801469-004L	Ba (230.424 nm)	0.0081 (ppm)	0.38	0.0081 (ppm)	288.4592
2/24/2018 00:41:28	R1801469-004L	Be (313.107 nm)	-0.0001 u (ppm)	16.72	-0.0001 (ppm)	-695.7144
2/24/2018 00:41:28	R1801469-004L	Ca (227.547 nm)	733.1978 o (ppm)	2.20	733.1978 (ppm)	51254.9145
2/24/2018 00:41:28	R1801469-004L	Cd (214.439 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	12.3619
2/24/2018 00:41:28	R1801469-004L	Co (230.786 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-9.1830
2/24/2018 00:41:28	R1801469-004L	Cr (267.716 nm)	-0.0006 u (ppm)	7.50	-0.0006 (ppm)	-33.1953
2/24/2018 00:41:28	R1801469-004L	Cu (327.395 nm)	0.0009 (ppm)	13.86	0.0009 (ppm)	88.3517
2/24/2018 00:41:28	R1801469-004L	Fe (234.350 nm)	0.7463 (ppm)	1.06	0.7463 (ppm)	8417.5118
2/24/2018 00:41:28	R1801469-004L	K (766.491 nm)	128.4548 o (ppm)	3.53	128.4548 (ppm)	472566.0172
2/24/2018 00:41:28	R1801469-004L	Mg (279.078 nm)	68.4817 o (ppm)	1.24	68.4817 (ppm)	141411.4750
2/24/2018 00:41:28	R1801469-004L	Mn (257.610 nm)	0.5039 (ppm)	0.77	0.5039 (ppm)	163582.6826
2/24/2018 00:41:28	R1801469-004L	Mo (202.032 nm)	0.0008 (ppm)	41.83	0.0008 (ppm)	12.2035
2/24/2018 00:41:28	R1801469-004L	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:41:28	R1801469-004L	Ni (230.299 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-27.9272
2/24/2018 00:41:28	R1801469-004L	Pb (220.353 nm)	-0.0031 u (ppm)	95.49	-0.0031 (ppm)	-1.2687
2/24/2018 00:41:28	R1801469-004L	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.4875
2/24/2018 00:41:28	R1801469-004L	Se (196.026 nm)	-0.0031 u (ppm)	> 100.00	-0.0031 (ppm)	-4.8345
2/24/2018 00:41:28	R1801469-004L	Sn (189.925 nm)	-0.0067 u (ppm)	3.02	-0.0067 (ppm)	-7.2056
2/24/2018 00:41:28	R1801469-004L	Sr (216.596 nm)	8.2909 o (ppm)	1.48	8.2909 (ppm)	114817.5442
2/24/2018 00:41:28	R1801469-004L	Ti (336.122 nm)	0.0049 (ppm)	1.03	0.0049 (ppm)	587.4421

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:41:28	R1801469-004L	Ti (351.923 nm)	0.0287 (ppm)	17.11	0.0287 (ppm)	104.3194
2/24/2018 00:41:28	R1801469-004L	V (292.401 nm)	0.0014 (ppm)	10.06	0.0014 (ppm)	152.7612
2/24/2018 00:41:28	R1801469-004L	Y (360.074 nm)	0.55 (Ratio)	0.85	0.55 (Ratio)	548054.12
2/24/2018 00:41:28	R1801469-004L	Y_R (360.074 nm)	0.55 (Ratio)	0.86	0.55 (Ratio)	549307.42
2/24/2018 00:41:28	R1801469-004L	Zn (213.857 nm)	0.0032 (ppm)	4.63	0.0032 (ppm)	64.8000
2/24/2018 00:44:48	R1801469-007	Ag (328.068 nm)	-0.0011 u (ppm)	19.15	-0.0011 (ppm)	-200.4717
2/24/2018 00:44:48	R1801469-007	Al (394.401 nm)	0.1249 (ppm)	0.12	0.1249 (ppm)	1873.4095
2/24/2018 00:44:48	R1801469-007	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.9061
2/24/2018 00:44:48	R1801469-007	B (249.772 nm)	0.0021 (ppm)	3.85	0.0021 (ppm)	151.5817
2/24/2018 00:44:48	R1801469-007	Ba (230.424 nm)	1.9874 (ppm)	1.15	1.9874 (ppm)	69472.5688
2/24/2018 00:44:48	R1801469-007	Be (313.107 nm)	0.0001 (ppm)	7.24	0.0001 (ppm)	-398.9363
2/24/2018 00:44:48	R1801469-007	Ca (227.547 nm)	11753.9876 o (ppm)	1.28	11753.9876 (ppm)	821561.8258
2/24/2018 00:44:48	R1801469-007	Cd (214.439 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.9209
2/24/2018 00:44:48	R1801469-007	Co (230.786 nm)	0.0002 (ppm)	57.01	0.0002 (ppm)	-3.0549
2/24/2018 00:44:48	R1801469-007	Cr (267.716 nm)	0.0014 (ppm)	6.36	0.0014 (ppm)	63.3605
2/24/2018 00:44:48	R1801469-007	Cu (327.395 nm)	0.0041 (ppm)	11.07	0.0041 (ppm)	316.9946
2/24/2018 00:44:48	R1801469-007	Fe (234.350 nm)	0.0407 (ppm)	1.49	0.0407 (ppm)	477.6251
2/24/2018 00:44:48	R1801469-007	K (766.491 nm)	354.1523 o (ppm)	1.76	354.1523 (ppm)	1302878.8798
2/24/2018 00:44:48	R1801469-007	Mg (279.078 nm)	0.0591 (ppm)	15.71	0.0591 (ppm)	117.7507
2/24/2018 00:44:48	R1801469-007	Mn (257.610 nm)	0.0006 (ppm)	8.48	0.0006 (ppm)	189.2007
2/24/2018 00:44:48	R1801469-007	Mo (202.032 nm)	0.0077 (ppm)	6.33	0.0077 (ppm)	84.7073
2/24/2018 00:44:48	R1801469-007	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:44:48	R1801469-007	Ni (230.299 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-13.0977
2/24/2018 00:44:48	R1801469-007	Pb (220.353 nm)	0.0047 (ppm)	2.44	0.0047 (ppm)	16.4239
2/24/2018 00:44:48	R1801469-007	Sb (217.582 nm)	0.0077 (ppm)	28.28	0.0077 (ppm)	10.8028
2/24/2018 00:44:48	R1801469-007	Se (196.026 nm)	-0.0102 u (ppm)	39.43	-0.0102 (ppm)	-11.5827
2/24/2018 00:44:48	R1801469-007	Sn (189.925 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-0.3136
2/24/2018 00:44:48	R1801469-007	Sr (216.596 nm)	35.6314 o (ppm)	0.52	35.6314 (ppm)	493458.8163
2/24/2018 00:44:48	R1801469-007	Ti (336.122 nm)	0.0808 (ppm)	0.79	0.0808 (ppm)	17624.9319
2/24/2018 00:44:48	R1801469-007	Ti (351.923 nm)	0.4122 (ppm)	3.42	0.4122 (ppm)	1253.5806
2/24/2018 00:44:48	R1801469-007	V (292.401 nm)	0.0011 (ppm)	63.68	0.0011 (ppm)	141.7376
2/24/2018 00:44:48	R1801469-007	Y (360.074 nm)	0.54 (Ratio)	1.66	0.54 (Ratio)	533671.89
2/24/2018 00:44:48	R1801469-007	Y_R (360.074 nm)	0.54 (Ratio)	1.66	0.54 (Ratio)	534904.97
2/24/2018 00:44:48	R1801469-007	Zn (213.857 nm)	0.0014 (ppm)	10.50	0.0014 (ppm)	10.5881
2/24/2018 00:48:08	R1801469-008	Ag (328.068 nm)	-0.0012 u (ppm)	14.43	-0.0012 (ppm)	-206.5435
2/24/2018 00:48:08	R1801469-008	Al (394.401 nm)	0.1265 (ppm)	3.69	0.1265 (ppm)	1897.0718
2/24/2018 00:48:08	R1801469-008	As (188.980 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	-4.8652
2/24/2018 00:48:08	R1801469-008	B (249.772 nm)	0.0011 (ppm)	10.16	0.0011 (ppm)	121.2461
2/24/2018 00:48:08	R1801469-008	Ba (230.424 nm)	1.9879 (ppm)	0.41	1.9879 (ppm)	69489.2505
2/24/2018 00:48:08	R1801469-008	Be (313.107 nm)	0.0001 (ppm)	19.63	0.0001 (ppm)	-370.0233
2/24/2018 00:48:08	R1801469-008	Ca (227.547 nm)	11685.1712 o (ppm)	0.26	11685.1712 (ppm)	816751.8481
2/24/2018 00:48:08	R1801469-008	Cd (214.439 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.0555
2/24/2018 00:48:08	R1801469-008	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.7044
2/24/2018 00:48:08	R1801469-008	Cr (267.716 nm)	-0.0004 u (ppm)	14.50	-0.0004 (ppm)	-25.2948
2/24/2018 00:48:08	R1801469-008	Cu (327.395 nm)	0.0045 (ppm)	5.06	0.0045 (ppm)	346.6033
2/24/2018 00:48:08	R1801469-008	Fe (234.350 nm)	0.0317 (ppm)	2.12	0.0317 (ppm)	376.3120
2/24/2018 00:48:08	R1801469-008	K (766.491 nm)	352.8869 o (ppm)	0.48	352.8869 (ppm)	1298223.6436
2/24/2018 00:48:08	R1801469-008	Mg (279.078 nm)	0.0484 (ppm)	2.04	0.0484 (ppm)	95.6613
2/24/2018 00:48:08	R1801469-008	Mn (257.610 nm)	0.0004 (ppm)	9.41	0.0004 (ppm)	119.3158
2/24/2018 00:48:08	R1801469-008	Mo (202.032 nm)	0.0071 (ppm)	6.46	0.0071 (ppm)	77.7686
2/24/2018 00:48:08	R1801469-008	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:48:08	R1801469-008	Ni (230.299 nm)	0.0019 (ppm)	22.20	0.0019 (ppm)	-9.6082
2/24/2018 00:48:08	R1801469-008	Pb (220.353 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	7.6494
2/24/2018 00:48:08	R1801469-008	Sb (217.582 nm)	0.0101 (ppm)	10.70	0.0101 (ppm)	14.5053
2/24/2018 00:48:08	R1801469-008	Se (196.026 nm)	-0.0081 u (ppm)	53.97	-0.0081 (ppm)	-9.5824
2/24/2018 00:48:08	R1801469-008	Sn (189.925 nm)	-0.0066 u (ppm)	35.42	-0.0066 (ppm)	-7.1287
2/24/2018 00:48:08	R1801469-008	Sr (216.596 nm)	35.3437 o (ppm)	1.68	35.3437 (ppm)	489474.7950
2/24/2018 00:48:08	R1801469-008	Ti (336.122 nm)	0.0806 (ppm)	0.15	0.0806 (ppm)	17575.6369
2/24/2018 00:48:08	R1801469-008	Tl (351.923 nm)	0.4166 (ppm)	2.18	0.4166 (ppm)	1266.9560
2/24/2018 00:48:08	R1801469-008	V (292.401 nm)	0.0009 (ppm)	36.41	0.0009 (ppm)	133.1155
2/24/2018 00:48:08	R1801469-008	Y (360.074 nm)	0.54 (Ratio)	0.79	0.54 (Ratio)	537136.40
2/24/2018 00:48:08	R1801469-008	Y_R (360.074 nm)	0.54 (Ratio)	0.79	0.54 (Ratio)	538378.89
2/24/2018 00:48:08	R1801469-008	Zn (213.857 nm)	0.0018 (ppm)	17.01	0.0018 (ppm)	22.8407
2/24/2018 00:51:29	R1801469-009	Ag (328.068 nm)	-0.0009 u (ppm)	20.25	-0.0009 (ppm)	-185.3881
2/24/2018 00:51:29	R1801469-009	Al (394.401 nm)	0.5457 (ppm)	5.04	0.5457 (ppm)	7960.7778
2/24/2018 00:51:29	R1801469-009	As (188.980 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	-0.1894
2/24/2018 00:51:29	R1801469-009	B (249.772 nm)	7.1523 o (ppm)	2.53	7.1523 (ppm)	217538.6760
2/24/2018 00:51:29	R1801469-009	Ba (230.424 nm)	0.0383 (ppm)	2.43	0.0383 (ppm)	1345.1996
2/24/2018 00:51:29	R1801469-009	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-582.3274
2/24/2018 00:51:29	R1801469-009	Ca (227.547 nm)	17547.0230 o (ppm)	2.84	17547.0230 (ppm)	1226470.6679
2/24/2018 00:51:29	R1801469-009	Cd (214.439 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.3214
2/24/2018 00:51:29	R1801469-009	Co (230.786 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-13.2972
2/24/2018 00:51:29	R1801469-009	Cr (267.716 nm)	-0.0019 u (ppm)	22.42	-0.0019 (ppm)	-94.8614
2/24/2018 00:51:29	R1801469-009	Cu (327.395 nm)	0.0103 (ppm)	25.26	0.0103 (ppm)	749.8600
2/24/2018 00:51:29	R1801469-009	Fe (234.350 nm)	15.3887 o (ppm)	2.99	15.3887 (ppm)	173185.4236
2/24/2018 00:51:29	R1801469-009	K (766.491 nm)	5984.9378 o (ppm)	6.04	5984.9378 (ppm)	22017833.3173
2/24/2018 00:51:29	R1801469-009	Mg (279.078 nm)	651.7749 o (ppm)	3.83	651.7749 (ppm)	1345920.4152
2/24/2018 00:51:29	R1801469-009	Mn (257.610 nm)	5.1857 o (ppm)	2.64	5.1857 (ppm)	1683423.0560
2/24/2018 00:51:29	R1801469-009	Mo (202.032 nm)	0.0008 (ppm)	73.88	0.0008 (ppm)	12.3221
2/24/2018 00:51:29	R1801469-009	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 00:51:29	R1801469-009	Ni (230.299 nm)	-0.0063 u (ppm)	7.23	-0.0063 (ppm)	-68.0696
2/24/2018 00:51:29	R1801469-009	Pb (220.353 nm)	0.0050 (ppm)	75.48	0.0050 (ppm)	17.1468
2/24/2018 00:51:29	R1801469-009	Sb (217.582 nm)	0.0044 u (ppm)	> 100.00	0.0044 (ppm)	5.4835
2/24/2018 00:51:29	R1801469-009	Se (196.026 nm)	-0.0066 u (ppm)	> 100.00	-0.0066 (ppm)	-8.1489
2/24/2018 00:51:29	R1801469-009	Sn (189.925 nm)	-0.0107 u (ppm)	67.75	-0.0107 (ppm)	-12.1142
2/24/2018 00:51:29	R1801469-009	Sr (216.596 nm)	77.1304 o (ppm)	3.94	77.1304 (ppm)	1068182.1083
2/24/2018 00:51:29	R1801469-009	Ti (336.122 nm)	0.2292 (ppm)	4.77	0.2292 (ppm)	50933.7078
2/24/2018 00:51:29	R1801469-009	Tl (351.923 nm)	0.4264 (ppm)	0.60	0.4264 (ppm)	1296.2517
2/24/2018 00:51:29	R1801469-009	V (292.401 nm)	0.0057 (ppm)	17.70	0.0057 (ppm)	314.5414
2/24/2018 00:51:29	R1801469-009	Y (360.074 nm)	0.26 (Ratio)	1.53	0.26 (Ratio)	257158.77
2/24/2018 00:51:29	R1801469-009	Y_R (360.074 nm)	0.26 (Ratio)	1.53	0.26 (Ratio)	257749.67
2/24/2018 00:51:29	R1801469-009	Zn (213.857 nm)	0.0256 (ppm)	2.89	0.0256 (ppm)	741.0671
2/24/2018 00:54:50	R1801469-010	Ag (328.068 nm)	-0.0004 u (ppm)	22.04	-0.0004 (ppm)	-145.9371
2/24/2018 00:54:50	R1801469-010	Al (394.401 nm)	0.2507 (ppm)	2.64	0.2507 (ppm)	3693.4047
2/24/2018 00:54:50	R1801469-010	As (188.980 nm)	0.0042 (ppm)	55.34	0.0042 (ppm)	1.2900
2/24/2018 00:54:50	R1801469-010	B (249.772 nm)	4.0317 (ppm)	1.67	4.0317 (ppm)	122662.0041
2/24/2018 00:54:50	R1801469-010	Ba (230.424 nm)	0.0364 (ppm)	2.13	0.0364 (ppm)	1276.6628
2/24/2018 00:54:50	R1801469-010	Be (313.107 nm)	0.0000 (ppm)	73.85	0.0000 (ppm)	-545.0689
2/24/2018 00:54:50	R1801469-010	Ca (227.547 nm)	7943.5547 o (ppm)	1.64	7943.5547 (ppm)	555228.5699
2/24/2018 00:54:50	R1801469-010	Cd (214.439 nm)	0.0006 (ppm)	35.46	0.0006 (ppm)	28.7262
2/24/2018 00:54:50	R1801469-010	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.4920
2/24/2018 00:54:50	R1801469-010	Cr (267.716 nm)	-0.0002 u (ppm)	99.23	-0.0002 (ppm)	-16.5713

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 00:54:50	R1801469-010	Cu (327.395 nm)	0.0056 (ppm)	3.22	0.0056 (ppm)	421.8485
2/24/2018 00:54:50	R1801469-010	Fe (234.350 nm)	10.7969 o (ppm)	1.84	10.7969 (ppm)	121515.1414
2/24/2018 00:54:50	R1801469-010	K (766.491 nm)	941.8737 o (ppm)	1.79	941.8737 (ppm)	3465032.2992
2/24/2018 00:54:50	R1801469-010	Mg (279.078 nm)	706.2530 o (ppm)	1.84	706.2530 (ppm)	1458418.4354
2/24/2018 00:54:50	R1801469-010	Mn (257.610 nm)	4.9492 o (ppm)	1.57	4.9492 (ppm)	1606667.9703
2/24/2018 00:54:50	R1801469-010	Mo (202.032 nm)	0.0013 (ppm)	66.69	0.0013 (ppm)	16.9961
2/24/2018 00:54:50	R1801469-010	Na (588.995 nm)	#### (ppm) *	N/A	#### (ppm)	####
2/24/2018 00:54:50	R1801469-010	Ni (230.299 nm)	-0.0030 u (ppm)	79.73	-0.0030 (ppm)	-44.6004
2/24/2018 00:54:50	R1801469-010	Pb (220.353 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	-0.7926
2/24/2018 00:54:50	R1801469-010	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.0582
2/24/2018 00:54:50	R1801469-010	Se (196.026 nm)	-0.0102 u (ppm)	44.27	-0.0102 (ppm)	-11.6017
2/24/2018 00:54:50	R1801469-010	Sn (189.925 nm)	-0.0040 u (ppm)	40.95	-0.0040 (ppm)	-3.8756
2/24/2018 00:54:50	R1801469-010	Sr (216.596 nm)	77.0074 o (ppm)	1.73	77.0074 (ppm)	1066479.7517
2/24/2018 00:54:50	R1801469-010	Ti (336.122 nm)	0.0542 (ppm)	1.85	0.0542 (ppm)	11651.7090
2/24/2018 00:54:50	R1801469-010	Tl (351.923 nm)	0.2597 (ppm)	2.88	0.2597 (ppm)	796.5239
2/24/2018 00:54:50	R1801469-010	V (292.401 nm)	0.0023 (ppm)	13.40	0.0023 (ppm)	185.8441
2/24/2018 00:54:50	R1801469-010	Y (360.074 nm)	0.45 (Ratio)	2.07	0.45 (Ratio)	444076.99
2/24/2018 00:54:50	R1801469-010	Y_R (360.074 nm)	0.45 (Ratio)	2.07	0.45 (Ratio)	445096.25
2/24/2018 00:54:50	R1801469-010	Zn (213.857 nm)	0.0186 (ppm)	1.87	0.0186 (ppm)	531.0329
2/24/2018 00:58:11	R1801469-011	Ag (328.068 nm)	-0.0004 u (ppm)	22.88	-0.0004 (ppm)	-144.7886
2/24/2018 00:58:11	R1801469-011	Al (394.401 nm)	0.0513 (ppm)	1.39	0.0513 (ppm)	809.2291
2/24/2018 00:58:11	R1801469-011	As (188.980 nm)	0.0034 (ppm)	58.91	0.0034 (ppm)	0.5054
2/24/2018 00:58:11	R1801469-011	B (249.772 nm)	0.0048 (ppm)	5.72	0.0048 (ppm)	232.0217
2/24/2018 00:58:11	R1801469-011	Ba (230.424 nm)	0.3554 (ppm)	0.52	0.3554 (ppm)	12428.2510
2/24/2018 00:58:11	R1801469-011	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-572.2936
2/24/2018 00:58:11	R1801469-011	Ca (227.547 nm)	956.4755 o (ppm)	0.63	956.4755 (ppm)	66861.0822
2/24/2018 00:58:11	R1801469-011	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.2368
2/24/2018 00:58:11	R1801469-011	Co (230.786 nm)	0.0003 (ppm)	62.47	0.0003 (ppm)	-2.6842
2/24/2018 00:58:11	R1801469-011	Cr (267.716 nm)	0.0022 (ppm)	4.47	0.0022 (ppm)	103.3311
2/24/2018 00:58:11	R1801469-011	Cu (327.395 nm)	0.0004 (ppm)	52.76	0.0004 (ppm)	56.1698
2/24/2018 00:58:11	R1801469-011	Fe (234.350 nm)	0.0100 (ppm)	20.87	0.0100 (ppm)	132.1792
2/24/2018 00:58:11	R1801469-011	K (766.491 nm)	13.0798 (ppm)	0.74	13.0798 (ppm)	48115.7226
2/24/2018 00:58:11	R1801469-011	Mg (279.078 nm)	0.1963 (ppm)	71.45	0.1963 (ppm)	400.9247
2/24/2018 00:58:11	R1801469-011	Mn (257.610 nm)	0.0014 (ppm)	68.19	0.0014 (ppm)	440.5174
2/24/2018 00:58:11	R1801469-011	Mo (202.032 nm)	0.0026 (ppm)	12.25	0.0026 (ppm)	30.5763
2/24/2018 00:58:11	R1801469-011	Na (588.995 nm)	72.5848 o (ppm)	2.34	72.5848 (ppm)	3919606.8633
2/24/2018 00:58:11	R1801469-011	Ni (230.299 nm)	0.0003 (ppm)	83.25	0.0003 (ppm)	-20.9146
2/24/2018 00:58:11	R1801469-011	Pb (220.353 nm)	0.0029 (ppm)	40.47	0.0029 (ppm)	12.4337
2/24/2018 00:58:11	R1801469-011	Sb (217.582 nm)	0.0021 (ppm)	80.49	0.0021 (ppm)	1.8987
2/24/2018 00:58:11	R1801469-011	Se (196.026 nm)	-0.0036 u (ppm)	7.73	-0.0036 (ppm)	-5.2793
2/24/2018 00:58:11	R1801469-011	Sn (189.925 nm)	-0.0036 u (ppm)	20.11	-0.0036 (ppm)	-3.3753
2/24/2018 00:58:11	R1801469-011	Sr (216.596 nm)	4.5444 (ppm)	0.88	4.5444 (ppm)	62831.7720
2/24/2018 00:58:11	R1801469-011	Ti (336.122 nm)	0.0061 (ppm)	1.32	0.0061 (ppm)	851.5788
2/24/2018 00:58:11	R1801469-011	Tl (351.923 nm)	0.0280 (ppm)	10.67	0.0280 (ppm)	102.1167
2/24/2018 00:58:11	R1801469-011	V (292.401 nm)	0.0006 (ppm)	34.70	0.0006 (ppm)	119.7366
2/24/2018 00:58:11	R1801469-011	Y (360.074 nm)	0.83 (Ratio)	0.22	0.83 (Ratio)	817750.02
2/24/2018 00:58:11	R1801469-011	Y_R (360.074 nm)	0.83 (Ratio)	0.22	0.83 (Ratio)	819429.55
2/24/2018 00:58:11	R1801469-011	Zn (213.857 nm)	0.0013 (ppm)	8.21	0.0013 (ppm)	7.1366
2/24/2018 01:01:32	R1801469-012	Ag (328.068 nm)	-0.0019 u (ppm)	31.22	-0.0019 (ppm)	-260.7747
2/24/2018 01:01:32	R1801469-012	Al (394.401 nm)	1.8892 (ppm)	1.98	1.8892 (ppm)	27398.0988
2/24/2018 01:01:32	R1801469-012	As (188.980 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	-5.3493

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:01:32	R1801469-012	B (249.772 nm)	0.1172 (ppm)	2.66	0.1172 (ppm)	3649.0597
2/24/2018 01:01:32	R1801469-012	Ba (230.424 nm)	3.9436 (ppm)	2.43	3.9436 (ppm)	137848.5167
2/24/2018 01:01:32	R1801469-012	Be (313.107 nm)	0.0002 (ppm)	6.87	0.0002 (ppm)	-202.9627
2/24/2018 01:01:32	R1801469-012	Ca (227.547 nm)	23583.2535 o (ppm)	1.92	23583.2535 (ppm)	1648377.8255
2/24/2018 01:01:32	R1801469-012	Cd (214.439 nm)	0.0034 (ppm)	3.27	0.0034 (ppm)	89.1748
2/24/2018 01:01:32	R1801469-012	Co (230.786 nm)	-0.0011 u (ppm)	56.62	-0.0011 (ppm)	-17.5136
2/24/2018 01:01:32	R1801469-012	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.4619
2/24/2018 01:01:32	R1801469-012	Cu (327.395 nm)	0.0141 (ppm)	2.34	0.0141 (ppm)	1019.0387
2/24/2018 01:01:32	R1801469-012	Fe (234.350 nm)	71.1465 o (ppm)	2.71	71.1465 (ppm)	800620.5223
2/24/2018 01:01:32	R1801469-012	K (766.491 nm)	436.9412 o (ppm)	1.24	436.9412 (ppm)	1607448.9661
2/24/2018 01:01:32	R1801469-012	Mg (279.078 nm)	136.5388 o (ppm)	2.76	136.5388 (ppm)	281950.2296
2/24/2018 01:01:32	R1801469-012	Mn (257.610 nm)	2.7882 o (ppm)	2.60	2.7882 (ppm)	905130.7410
2/24/2018 01:01:32	R1801469-012	Mo (202.032 nm)	0.0025 (ppm)	25.41	0.0025 (ppm)	29.6552
2/24/2018 01:01:32	R1801469-012	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 01:01:32	R1801469-012	Ni (230.299 nm)	-0.0124 u (ppm)	29.35	-0.0124 (ppm)	-111.8337
2/24/2018 01:01:32	R1801469-012	Pb (220.353 nm)	0.0059 (ppm)	92.00	0.0059 (ppm)	19.0950
2/24/2018 01:01:32	R1801469-012	Sb (217.582 nm)	0.0072 u (ppm)	> 100.00	0.0072 (ppm)	9.9096
2/24/2018 01:01:32	R1801469-012	Se (196.026 nm)	0.0091 u (ppm)	> 100.00	0.0091 (ppm)	6.7550
2/24/2018 01:01:32	R1801469-012	Sn (189.925 nm)	-0.0049 u (ppm)	63.65	-0.0049 (ppm)	-4.9669
2/24/2018 01:01:32	R1801469-012	Sr (216.596 nm)	65.8747 o (ppm)	4.95	65.8747 (ppm)	912300.8508
2/24/2018 01:01:32	R1801469-012	Ti (336.122 nm)	0.2359 (ppm)	1.10	0.2359 (ppm)	52423.7749
2/24/2018 01:01:32	R1801469-012	Ti (351.923 nm)	0.7914 (ppm)	2.06	0.7914 (ppm)	2390.1842
2/24/2018 01:01:32	R1801469-012	V (292.401 nm)	0.0078 (ppm)	7.79	0.0078 (ppm)	398.0558
2/24/2018 01:01:32	R1801469-012	Y (360.074 nm)	0.39 (Ratio)	2.44	0.39 (Ratio)	389292.10
2/24/2018 01:01:32	R1801469-012	Y_R (360.074 nm)	0.39 (Ratio)	2.44	0.39 (Ratio)	390189.25
2/24/2018 01:01:32	R1801469-012	Zn (213.857 nm)	0.0289 (ppm)	1.82	0.0289 (ppm)	840.7637
2/24/2018 01:04:53	Continuing Calibration Verification1	Ag (328.068 nm)	0.4849 (ppm)	0.82	0.4849 (ppm)	37535.8245
2/24/2018 01:04:53	Continuing Calibration Verification1	Al (394.401 nm)	9.5454 (ppm)	0.83	9.5454 (ppm)	138160.1333
2/24/2018 01:04:53	Continuing Calibration Verification1	As (188.980 nm)	0.9754 (ppm)	1.41	0.9754 (ppm)	910.8758
2/24/2018 01:04:53	Continuing Calibration Verification1	B (249.772 nm)	2.4860 (ppm)	0.88	2.4860 (ppm)	75669.4111
2/24/2018 01:04:53	Continuing Calibration Verification1	Ba (230.424 nm)	10.5604 (ppm)	0.97	10.5604 (ppm)	369134.1297
2/24/2018 01:04:53	Continuing Calibration Verification1	Be (313.107 nm)	0.2609 (ppm)	0.86	0.2609 (ppm)	392721.2698
2/24/2018 01:04:53	Continuing Calibration Verification1	Ca (227.547 nm)	24.6417 (ppm)	0.69	24.6417 (ppm)	1729.8184
2/24/2018 01:04:53	Continuing Calibration Verification1	Cd (214.439 nm)	0.5161 (ppm)	1.12	0.5161 (ppm)	11080.8246
2/24/2018 01:04:53	Continuing Calibration Verification1	Co (230.786 nm)	2.6327 (ppm)	1.00	2.6327 (ppm)	28028.5543
2/24/2018 01:04:53	Continuing Calibration Verification1	Cr (267.716 nm)	0.5464 (ppm)	1.07	0.5464 (ppm)	26425.2894
2/24/2018 01:04:53	Continuing Calibration Verification1	Cu (327.395 nm)	1.2073 (ppm)	0.98	1.2073 (ppm)	84889.2794
2/24/2018 01:04:53	Continuing Calibration Verification1	Fe (234.350 nm)	5.2213 (ppm)	1.00	5.2213 (ppm)	58773.6485
2/24/2018 01:04:53	Continuing Calibration Verification1	K (766.491 nm)	24.7021 (ppm)	0.46	24.7021 (ppm)	90872.9043
2/24/2018 01:04:53	Continuing Calibration Verification1	Mg (279.078 nm)	25.8184 (ppm)	0.91	25.8184 (ppm)	53311.1293
2/24/2018 01:04:53	Continuing Calibration Verification1	Mn (257.610 nm)	0.7891 (ppm)	0.99	0.7891 (ppm)	256178.3535
2/24/2018 01:04:53	Continuing Calibration Verification1	Mo (202.032 nm)	2.4679 (ppm)	1.09	2.4679 (ppm)	25845.8670
2/24/2018 01:04:53	Continuing Calibration Verification1	Na (588.995 nm)	26.4515 (ppm)	0.56	26.4515 (ppm)	1425470.2398
2/24/2018 01:04:53	Continuing Calibration Verification1	Ni (230.299 nm)	2.1090 (ppm)	0.91	2.1090 (ppm)	15025.6159
2/24/2018 01:04:53	Continuing Calibration Verification1	Pb (220.353 nm)	0.5122 (ppm)	1.08	0.5122 (ppm)	1173.7573
2/24/2018 01:04:53	Continuing Calibration Verification1	Sb (217.582 nm)	4.8833 (ppm)	0.76	4.8833 (ppm)	7770.0137
2/24/2018 01:04:53	Continuing Calibration Verification1	Se (196.026 nm)	0.4920 (ppm)	1.03	0.4920 (ppm)	466.1356
2/24/2018 01:04:53	Continuing Calibration Verification1	Sn (189.925 nm)	5.1671 (ppm)	0.76	5.1671 (ppm)	6366.9886
2/24/2018 01:04:53	Continuing Calibration Verification1	Sr (216.596 nm)	2.6846 (ppm)	1.39	2.6846 (ppm)	37174.2117
2/24/2018 01:04:53	Continuing Calibration Verification1	Ti (336.122 nm)	2.5178 (ppm)	1.16	2.5178 (ppm)	564633.4110
2/24/2018 01:04:53	Continuing Calibration Verification1	Ti (351.923 nm)	0.9820 (ppm)	0.76	0.9820 (ppm)	2961.5482

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:04:53	Continuing Calibration Verification1	V (292.401 nm)	2.5543 (ppm)	0.93	2.5543 (ppm)	97791.9430
2/24/2018 01:04:53	Continuing Calibration Verification1	Y (360.074 nm)	0.94 (Ratio)	0.40	0.94 (Ratio)	928747.22
2/24/2018 01:04:53	Continuing Calibration Verification1	Y_R (360.074 nm)	0.94 (Ratio)	0.40	0.94 (Ratio)	930553.62
2/24/2018 01:04:53	Continuing Calibration Verification1	Zn (213.857 nm)	1.0263 (ppm)	1.00	1.0263 (ppm)	30974.7087
2/24/2018 01:08:13	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u (ppm)	32.02	-0.0002 (ppm)	-131.0815
2/24/2018 01:08:13	Continuing Calibration Blank1	Al (394.401 nm)	0.0072 (ppm)	3.84	0.0072 (ppm)	170.2869
2/24/2018 01:08:13	Continuing Calibration Blank1	As (188.980 nm)	0.0015 (ppm)	41.40	0.0015 (ppm)	-1.2355
2/24/2018 01:08:13	Continuing Calibration Blank1	B (249.772 nm)	0.0029 (ppm)	13.03	0.0029 (ppm)	175.6153
2/24/2018 01:08:13	Continuing Calibration Blank1	Ba (230.424 nm)	0.0042 (ppm)	2.97	0.0042 (ppm)	153.1464
2/24/2018 01:08:13	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	3.31	0.0001 (ppm)	-400.0099
2/24/2018 01:08:13	Continuing Calibration Blank1	Ca (227.547 nm)	0.0727 (ppm)	34.58	0.0727 (ppm)	12.5434
2/24/2018 01:08:13	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 (ppm)	53.58	0.0002 (ppm)	19.9358
2/24/2018 01:08:13	Continuing Calibration Blank1	Co (230.786 nm)	0.0012 (ppm)	21.79	0.0012 (ppm)	6.9774
2/24/2018 01:08:13	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002 (ppm)	21.95	0.0002 (ppm)	5.4739
2/24/2018 01:08:13	Continuing Calibration Blank1	Cu (327.395 nm)	0.0004 (ppm)	38.54	0.0004 (ppm)	55.9497
2/24/2018 01:08:13	Continuing Calibration Blank1	Fe (234.350 nm)	0.0041 (ppm)	7.99	0.0041 (ppm)	65.1126
2/24/2018 01:08:13	Continuing Calibration Blank1	K (766.491 nm)	0.0674 (ppm)	14.38	0.0674 (ppm)	244.8456
2/24/2018 01:08:13	Continuing Calibration Blank1	Mg (279.078 nm)	0.0153 (ppm)	8.92	0.0153 (ppm)	27.2158
2/24/2018 01:08:13	Continuing Calibration Blank1	Mn (257.610 nm)	0.0004 (ppm)	2.51	0.0004 (ppm)	117.3441
2/24/2018 01:08:13	Continuing Calibration Blank1	Mo (202.032 nm)	0.0032 (ppm)	4.65	0.0032 (ppm)	37.4095
2/24/2018 01:08:13	Continuing Calibration Blank1	Na (588.995 nm)	0.3372 (ppm)	6.57	0.3372 (ppm)	13638.4292
2/24/2018 01:08:13	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-21.6173
2/24/2018 01:08:13	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.3025
2/24/2018 01:08:13	Continuing Calibration Blank1	Sb (217.582 nm)	0.0037 (ppm)	18.51	0.0037 (ppm)	4.3926
2/24/2018 01:08:13	Continuing Calibration Blank1	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.6402
2/24/2018 01:08:13	Continuing Calibration Blank1	Sn (189.925 nm)	0.0025 (ppm)	46.92	0.0025 (ppm)	4.1429
2/24/2018 01:08:13	Continuing Calibration Blank1	Sr (216.596 nm)	0.0018 (ppm)	8.65	0.0018 (ppm)	21.0586
2/24/2018 01:08:13	Continuing Calibration Blank1	Ti (336.122 nm)	0.0014 (ppm)	1.51	0.0014 (ppm)	-209.5337
2/24/2018 01:08:13	Continuing Calibration Blank1	Tl (351.923 nm)	0.0038 (ppm)	15.56	0.0038 (ppm)	29.5988
2/24/2018 01:08:13	Continuing Calibration Blank1	V (292.401 nm)	0.0010 (ppm)	5.75	0.0010 (ppm)	136.1255
2/24/2018 01:08:13	Continuing Calibration Blank1	Y (360.074 nm)	0.99 (Ratio)	0.43	0.99 (Ratio)	983894.62
2/24/2018 01:08:13	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99 (Ratio)	0.43	0.99 (Ratio)	985744.72
2/24/2018 01:08:13	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	8.84	0.0003 (ppm)	-22.3314
2/24/2018 01:11:35	R1801469-013	Ag (328.068 nm)	-0.0003 u (ppm)	8.78	-0.0003 (ppm)	-141.3742
2/24/2018 01:11:35	R1801469-013	Al (394.401 nm)	0.3434 (ppm)	0.20	0.3434 (ppm)	5033.9873
2/24/2018 01:11:35	R1801469-013	As (188.980 nm)	0.0136 (ppm)	23.17	0.0136 (ppm)	10.0984
2/24/2018 01:11:35	R1801469-013	B (249.772 nm)	0.1310 (ppm)	0.22	0.1310 (ppm)	4070.9765
2/24/2018 01:11:35	R1801469-013	Ba (230.424 nm)	0.0258 (ppm)	1.49	0.0258 (ppm)	905.6915
2/24/2018 01:11:35	R1801469-013	Be (313.107 nm)	0.0000 (ppm)	62.61	0.0000 (ppm)	-562.6441
2/24/2018 01:11:35	R1801469-013	Ca (227.547 nm)	236.2016 o (ppm)	0.33	236.2016 (ppm)	16516.9649
2/24/2018 01:11:35	R1801469-013	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	13.9621
2/24/2018 01:11:35	R1801469-013	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.3374
2/24/2018 01:11:35	R1801469-013	Cr (267.716 nm)	0.0003 (ppm)	30.00	0.0003 (ppm)	9.3612
2/24/2018 01:11:35	R1801469-013	Cu (327.395 nm)	0.0010 (ppm)	18.89	0.0010 (ppm)	95.0821
2/24/2018 01:11:35	R1801469-013	Fe (234.350 nm)	1.1367 (ppm)	0.83	1.1367 (ppm)	12810.0159
2/24/2018 01:11:35	R1801469-013	K (766.491 nm)	8.2267 (ppm)	0.13	8.2267 (ppm)	30261.8428
2/24/2018 01:11:35	R1801469-013	Mg (279.078 nm)	26.9986 (ppm)	0.23	26.9986 (ppm)	55748.0605
2/24/2018 01:11:35	R1801469-013	Mn (257.610 nm)	0.0741 (ppm)	0.44	0.0741 (ppm)	24046.2113
2/24/2018 01:11:35	R1801469-013	Mo (202.032 nm)	0.0012 (ppm)	29.17	0.0012 (ppm)	16.1466
2/24/2018 01:11:35	R1801469-013	Na (588.995 nm)	109.7444 o (ppm)	0.36	109.7444 (ppm)	5928591.2719
2/24/2018 01:11:35	R1801469-013	Ni (230.299 nm)	-0.0071 u (ppm)	10.88	-0.0071 (ppm)	-73.6134



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:11:35	R1801469-013	Pb (220.353 nm)	-0.0022 u (ppm)	54.17	-0.0022 (ppm)	0.6784
2/24/2018 01:11:35	R1801469-013	Sb (217.582 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	1.6190
2/24/2018 01:11:35	R1801469-013	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-2.8992
2/24/2018 01:11:35	R1801469-013	Sn (189.925 nm)	-0.0011 u (ppm)	14.39	-0.0011 (ppm)	-0.2415
2/24/2018 01:11:35	R1801469-013	Sr (216.596 nm)	2.0541 (ppm)	0.34	2.0541 (ppm)	28442.6666
2/24/2018 01:11:35	R1801469-013	Ti (336.122 nm)	0.0067 (ppm)	5.20	0.0067 (ppm)	980.9250
2/24/2018 01:11:35	R1801469-013	Ti (351.923 nm)	0.0029 (ppm)	11.23	0.0029 (ppm)	26.8644
2/24/2018 01:11:35	R1801469-013	V (292.401 nm)	0.0008 (ppm)	21.43	0.0008 (ppm)	127.6159
2/24/2018 01:11:35	R1801469-013	Y (360.074 nm)	0.90 (Ratio)	0.41	0.90 (Ratio)	891564.16
2/24/2018 01:11:35	R1801469-013	Y_R (360.074 nm)	0.90 (Ratio)	0.41	0.90 (Ratio)	893392.51
2/24/2018 01:11:35	R1801469-013	Zn (213.857 nm)	0.0045 (ppm)	1.53	0.0045 (ppm)	104.6803
2/24/2018 01:14:55	R1801469-014	Ag (328.068 nm)	-0.0020 u (ppm)	10.88	-0.0020 (ppm)	-267.4883
2/24/2018 01:14:55	R1801469-014	Al (394.401 nm)	0.3171 (ppm)	4.75	0.3171 (ppm)	4654.2584
2/24/2018 01:14:55	R1801469-014	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-3.4343
2/24/2018 01:14:55	R1801469-014	B (249.772 nm)	0.0074 (ppm)	6.63	0.0074 (ppm)	311.7034
2/24/2018 01:14:55	R1801469-014	Ba (230.424 nm)	3.1620 (ppm)	3.38	3.1620 (ppm)	110529.9580
2/24/2018 01:14:55	R1801469-014	Be (313.107 nm)	0.0002 (ppm)	6.17	0.0002 (ppm)	-204.8681
2/24/2018 01:14:55	R1801469-014	Ca (227.547 nm)	24252.3450 o (ppm)	2.34	24252.3450 (ppm)	1695144.5137
2/24/2018 01:14:55	R1801469-014	Cd (214.439 nm)	0.0010 (ppm)	59.71	0.0010 (ppm)	37.5414
2/24/2018 01:14:55	R1801469-014	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-3.7188
2/24/2018 01:14:55	R1801469-014	Cr (267.716 nm)	0.0040 (ppm)	13.03	0.0040 (ppm)	189.9268
2/24/2018 01:14:55	R1801469-014	Cu (327.395 nm)	0.0127 (ppm)	1.63	0.0127 (ppm)	922.9112
2/24/2018 01:14:55	R1801469-014	Fe (234.350 nm)	0.0766 (ppm)	0.96	0.0766 (ppm)	880.5498
2/24/2018 01:14:55	R1801469-014	K (766.491 nm)	917.0414 o (ppm)	2.79	917.0414 (ppm)	3373677.4654
2/24/2018 01:14:55	R1801469-014	Mg (279.078 nm)	0.1449 (ppm)	3.31	0.1449 (ppm)	294.7780
2/24/2018 01:14:55	R1801469-014	Mn (257.610 nm)	0.0033 (ppm)	3.19	0.0033 (ppm)	1076.2639
2/24/2018 01:14:55	R1801469-014	Mo (202.032 nm)	0.0096 (ppm)	8.11	0.0096 (ppm)	104.5486
2/24/2018 01:14:55	R1801469-014	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 01:14:55	R1801469-014	Ni (230.299 nm)	0.0258 (ppm)	5.05	0.0258 (ppm)	161.0106
2/24/2018 01:14:55	R1801469-014	Pb (220.353 nm)	0.0070 (ppm)	22.88	0.0070 (ppm)	21.5931
2/24/2018 01:14:55	R1801469-014	Sb (217.582 nm)	0.0122 (ppm)	40.71	0.0122 (ppm)	17.9288
2/24/2018 01:14:55	R1801469-014	Se (196.026 nm)	-0.0062 u (ppm)	> 100.00	-0.0062 (ppm)	-7.8171
2/24/2018 01:14:55	R1801469-014	Sn (189.925 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	-2.2350
2/24/2018 01:14:55	R1801469-014	Sr (216.596 nm)	40.5186 o (ppm)	3.29	40.5186 (ppm)	561142.1229
2/24/2018 01:14:55	R1801469-014	Ti (336.122 nm)	0.2338 (ppm)	1.91	0.2338 (ppm)	51957.2491
2/24/2018 01:14:55	R1801469-014	Ti (351.923 nm)	0.7977 (ppm)	2.98	0.7977 (ppm)	2409.0841
2/24/2018 01:14:55	R1801469-014	V (292.401 nm)	0.0028 (ppm)	3.48	0.0028 (ppm)	203.5014
2/24/2018 01:14:55	R1801469-014	Y (360.074 nm)	0.40 (Ratio)	3.10	0.40 (Ratio)	396486.11
2/24/2018 01:14:55	R1801469-014	Y_R (360.074 nm)	0.40 (Ratio)	3.10	0.40 (Ratio)	397410.53
2/24/2018 01:14:55	R1801469-014	Zn (213.857 nm)	0.0054 (ppm)	6.16	0.0054 (ppm)	132.6626
2/24/2018 01:18:15	R1801469-015	Ag (328.068 nm)	-0.0009 u (ppm)	23.77	-0.0009 (ppm)	-183.3335
2/24/2018 01:18:15	R1801469-015	Al (394.401 nm)	0.0954 (ppm)	4.03	0.0954 (ppm)	1447.0884
2/24/2018 01:18:15	R1801469-015	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-1.5341
2/24/2018 01:18:15	R1801469-015	B (249.772 nm)	0.0004 (ppm)	27.56	0.0004 (ppm)	100.4437
2/24/2018 01:18:15	R1801469-015	Ba (230.424 nm)	2.0275 (ppm)	0.18	2.0275 (ppm)	70872.9643
2/24/2018 01:18:15	R1801469-015	Be (313.107 nm)	0.0000 (ppm)	23.32	0.0000 (ppm)	-515.8181
2/24/2018 01:18:15	R1801469-015	Ca (227.547 nm)	5660.0551 o (ppm)	0.38	5660.0551 (ppm)	395621.5388
2/24/2018 01:18:15	R1801469-015	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.2233
2/24/2018 01:18:15	R1801469-015	Co (230.786 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	2.3382
2/24/2018 01:18:15	R1801469-015	Cr (267.716 nm)	0.0048 (ppm)	1.26	0.0048 (ppm)	228.6672
2/24/2018 01:18:15	R1801469-015	Cu (327.395 nm)	0.0025 (ppm)	19.14	0.0025 (ppm)	204.0447

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:18:15	R1801469-015	Fe (234.350 nm)	0.0186 (ppm)	1.58	0.0186 (ppm)	228.4881
2/24/2018 01:18:15	R1801469-015	K (766.491 nm)	298.9860 o (ppm)	0.18	298.9860 (ppm)	1098929.0230
2/24/2018 01:18:15	R1801469-015	Mg (279.078 nm)	0.0268 (ppm)	17.01	0.0268 (ppm)	51.0231
2/24/2018 01:18:15	R1801469-015	Mn (257.610 nm)	0.0119 (ppm)	0.95	0.0119 (ppm)	3870.4986
2/24/2018 01:18:15	R1801469-015	Mo (202.032 nm)	0.0020 (ppm)	14.58	0.0020 (ppm)	24.7086
2/24/2018 01:18:15	R1801469-015	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 01:18:15	R1801469-015	Ni (230.299 nm)	0.0016 (ppm)	57.39	0.0016 (ppm)	-12.1526
2/24/2018 01:18:15	R1801469-015	Pb (220.353 nm)	0.0027 (ppm)	46.13	0.0027 (ppm)	11.8795
2/24/2018 01:18:15	R1801469-015	Sb (217.582 nm)	0.0038 (ppm)	82.94	0.0038 (ppm)	4.6027
2/24/2018 01:18:15	R1801469-015	Se (196.026 nm)	-0.0047 u (ppm)	> 100.00	-0.0047 (ppm)	-6.3821
2/24/2018 01:18:15	R1801469-015	Sn (189.925 nm)	-0.0018 u (ppm)	86.20	-0.0018 (ppm)	-1.1962
2/24/2018 01:18:15	R1801469-015	Sr (216.596 nm)	26.1450 o (ppm)	1.10	26.1450 (ppm)	362081.0845
2/24/2018 01:18:15	R1801469-015	Ti (336.122 nm)	0.0334 (ppm)	1.06	0.0334 (ppm)	6970.9292
2/24/2018 01:18:15	R1801469-015	Tl (351.923 nm)	0.2169 (ppm)	2.22	0.2169 (ppm)	668.1263
2/24/2018 01:18:15	R1801469-015	V (292.401 nm)	0.0004 (ppm)	17.39	0.0004 (ppm)	111.6756
2/24/2018 01:18:15	R1801469-015	Y (360.074 nm)	0.64 (Ratio)	0.25	0.64 (Ratio)	630837.30
2/24/2018 01:18:15	R1801469-015	Y_R (360.074 nm)	0.64 (Ratio)	0.25	0.64 (Ratio)	632262.44
2/24/2018 01:18:15	R1801469-015	Zn (213.857 nm)	0.0029 (ppm)	3.74	0.0029 (ppm)	57.1182
2/24/2018 01:21:35	R1801469-016	Ag (328.068 nm)	-0.0023 u (ppm)	8.95	-0.0023 (ppm)	-297.0983
2/24/2018 01:21:35	R1801469-016	Al (394.401 nm)	0.4188 (ppm)	2.43	0.4188 (ppm)	6125.8802
2/24/2018 01:21:35	R1801469-016	As (188.980 nm)	0.0047 u (ppm)	> 100.00	0.0047 (ppm)	1.7714
2/24/2018 01:21:35	R1801469-016	B (249.772 nm)	0.0127 (ppm)	6.78	0.0127 (ppm)	472.9545
2/24/2018 01:21:35	R1801469-016	Ba (230.424 nm)	2.8640 (ppm)	0.77	2.8640 (ppm)	100112.2072
2/24/2018 01:21:35	R1801469-016	Be (313.107 nm)	0.0003 (ppm)	2.00	0.0003 (ppm)	-126.8238
2/24/2018 01:21:35	R1801469-016	Ca (227.547 nm)	30230.3275 o (ppm)	1.19	30230.3275 (ppm)	2112980.3767
2/24/2018 01:21:35	R1801469-016	Cd (214.439 nm)	0.0008 (ppm)	59.10	0.0008 (ppm)	32.9454
2/24/2018 01:21:35	R1801469-016	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.2996
2/24/2018 01:21:35	R1801469-016	Cr (267.716 nm)	0.0031 (ppm)	16.24	0.0031 (ppm)	146.6546
2/24/2018 01:21:35	R1801469-016	Cu (327.395 nm)	0.0164 (ppm)	1.41	0.0164 (ppm)	1182.2210
2/24/2018 01:21:35	R1801469-016	Fe (234.350 nm)	0.0797 (ppm)	1.27	0.0797 (ppm)	915.8578
2/24/2018 01:21:35	R1801469-016	K (766.491 nm)	1281.7084 o (ppm)	2.22	1281.7084 (ppm)	4715241.4330
2/24/2018 01:21:35	R1801469-016	Mg (279.078 nm)	0.1388 (ppm)	6.84	0.1388 (ppm)	282.3213
2/24/2018 01:21:35	R1801469-016	Mn (257.610 nm)	0.0028 (ppm)	4.13	0.0028 (ppm)	913.1708
2/24/2018 01:21:35	R1801469-016	Mo (202.032 nm)	0.0068 (ppm)	22.93	0.0068 (ppm)	75.1891
2/24/2018 01:21:35	R1801469-016	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 01:21:35	R1801469-016	Ni (230.299 nm)	0.0433 (ppm)	3.87	0.0433 (ppm)	285.7996
2/24/2018 01:21:35	R1801469-016	Pb (220.353 nm)	0.0115 (ppm)	74.31	0.0115 (ppm)	31.9524
2/24/2018 01:21:35	R1801469-016	Sb (217.582 nm)	0.0109 (ppm)	24.41	0.0109 (ppm)	15.9054
2/24/2018 01:21:35	R1801469-016	Se (196.026 nm)	-0.0060 u (ppm)	> 100.00	-0.0060 (ppm)	-7.5742
2/24/2018 01:21:35	R1801469-016	Sn (189.925 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	-2.1043
2/24/2018 01:21:35	R1801469-016	Sr (216.596 nm)	36.1720 o (ppm)	0.74	36.1720 (ppm)	500944.8530
2/24/2018 01:21:35	R1801469-016	Ti (336.122 nm)	0.3461 (ppm)	0.98	0.3461 (ppm)	77170.7473
2/24/2018 01:21:35	R1801469-016	Tl (351.923 nm)	0.9931 (ppm)	3.06	0.9931 (ppm)	2994.8532
2/24/2018 01:21:35	R1801469-016	V (292.401 nm)	0.0031 (ppm)	20.64	0.0031 (ppm)	216.0187
2/24/2018 01:21:35	R1801469-016	Y (360.074 nm)	0.36 (Ratio)	1.75	0.36 (Ratio)	358585.33
2/24/2018 01:21:35	R1801469-016	Y_R (360.074 nm)	0.36 (Ratio)	1.75	0.36 (Ratio)	359432.16
2/24/2018 01:21:35	R1801469-016	Zn (213.857 nm)	0.0060 (ppm)	6.18	0.0060 (ppm)	148.9104
2/24/2018 01:24:55	R1701482-001	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-116.6920
2/24/2018 01:24:55	R1701482-001	Al (394.401 nm)	1.0103 (ppm)	0.32	1.0103 (ppm)	14682.2099
2/24/2018 01:24:55	R1701482-001	As (188.980 nm)	0.0040 (ppm)	53.49	0.0040 (ppm)	1.1104
2/24/2018 01:24:55	R1701482-001	B (249.772 nm)	0.2126 (ppm)	0.34	0.2126 (ppm)	6549.8161

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Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:24:55	R1701482-001 <i>Originals</i> R1801482-001	Ba (230.424 nm)	0.0625 (ppm)	0.55	0.0625 (ppm)	2188.8244
2/24/2018 01:24:55	R1701482-001	Be (313.107 nm)	0.0000 (ppm)	4.16	0.0000 (ppm)	-526.9912
2/24/2018 01:24:55	R1701482-001	Ca (227.547 nm)	100.2365 o (ppm)	1.56	100.2365 (ppm)	7013.5727
2/24/2018 01:24:55	R1701482-001	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.7400
2/24/2018 01:24:55	R1701482-001	Co (230.786 nm)	0.0008 (ppm)	27.68	0.0008 (ppm)	2.8149
2/24/2018 01:24:55	R1701482-001	Cr (267.716 nm)	0.0012 (ppm)	5.88	0.0012 (ppm)	53.9312
2/24/2018 01:24:55	R1701482-001	Cu (327.395 nm)	0.0110 (ppm)	0.24	0.0110 (ppm)	800.9685
2/24/2018 01:24:55	R1701482-001	Fe (234.350 nm)	0.7755 (ppm)	0.41	0.7755 (ppm)	8745.2120
2/24/2018 01:24:55	R1701482-001	K (766.491 nm)	9.2403 (ppm)	0.30	9.2403 (ppm)	33990.6561
2/24/2018 01:24:55	R1701482-001	Mg (279.078 nm)	39.0584 (ppm)	0.45	39.0584 (ppm)	80651.9125
2/24/2018 01:24:55	R1701482-001	Mn (257.610 nm)	0.0774 (ppm)	0.49	0.0774 (ppm)	25130.6918
2/24/2018 01:24:55	R1701482-001	Mo (202.032 nm)	0.0035 (ppm)	3.15	0.0035 (ppm)	40.5857
2/24/2018 01:24:55	R1701482-001	Na (588.995 nm)	68.6433 o (ppm)	1.08	68.6433 (ppm)	3706517.5150
2/24/2018 01:24:55	R1701482-001	Ni (230.299 nm)	-0.0006 u (ppm)	77.36	-0.0006 (ppm)	-27.3617
2/24/2018 01:24:55	R1701482-001	Pb (220.353 nm)	-0.0015 u (ppm)	60.03	-0.0015 (ppm)	2.2535
2/24/2018 01:24:55	R1701482-001	Sb (217.582 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	2.6041
2/24/2018 01:24:55	R1701482-001	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.6479
2/24/2018 01:24:55	R1701482-001	Sn (189.925 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-0.2537
2/24/2018 01:24:55	R1701482-001	Sr (216.596 nm)	0.5723 (ppm)	1.08	0.5723 (ppm)	7921.7281
2/24/2018 01:24:55	R1701482-001	Ti (336.122 nm)	0.0316 (ppm)	1.61	0.0316 (ppm)	6581.3787
2/24/2018 01:24:55	R1701482-001	Tl (351.923 nm)	0.0018 (ppm)	72.30	0.0018 (ppm)	23.4174
2/24/2018 01:24:55	R1701482-001	V (292.401 nm)	0.0025 (ppm)	9.25	0.0025 (ppm)	192.1896
2/24/2018 01:24:55	R1701482-001	Y (360.074 nm)	0.93 (Ratio)	0.18	0.93 (Ratio)	924315.65
2/24/2018 01:24:55	R1701482-001	Y_R (360.074 nm)	0.93 (Ratio)	0.18	0.93 (Ratio)	926207.89
2/24/2018 01:24:55	R1701482-001	Zn (213.857 nm)	0.0204 (ppm)	0.22	0.0204 (ppm)	584.3921
2/24/2018 01:28:16	R1801482-002	Ag (328.068 nm)	-0.0003 u (ppm)	16.61	-0.0003 (ppm)	-137.6455
2/24/2018 01:28:16	R1801482-002	Al (394.401 nm)	0.5013 (ppm)	0.40	0.5013 (ppm)	7318.4166
2/24/2018 01:28:16	R1801482-002	As (188.980 nm)	0.0019 (ppm)	31.67	0.0019 (ppm)	-0.8598
2/24/2018 01:28:16	R1801482-002	B (249.772 nm)	0.1486 (ppm)	0.24	0.1486 (ppm)	4605.0759
2/24/2018 01:28:16	R1801482-002	Ba (230.424 nm)	0.0533 (ppm)	0.50	0.0533 (ppm)	1866.4637
2/24/2018 01:28:16	R1801482-002	Be (313.107 nm)	0.0000 (ppm)	24.23	0.0000 (ppm)	-544.8488
2/24/2018 01:28:16	R1801482-002	Ca (227.547 nm)	86.6078 o (ppm)	0.19	86.6078 (ppm)	6060.9841
2/24/2018 01:28:16	R1801482-002	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	17.8689
2/24/2018 01:28:16	R1801482-002	Co (230.786 nm)	0.0004 (ppm)	54.88	0.0004 (ppm)	-1.4552
2/24/2018 01:28:16	R1801482-002	Cr (267.716 nm)	0.0008 (ppm)	14.27	0.0008 (ppm)	31.9523
2/24/2018 01:28:16	R1801482-002	Cu (327.395 nm)	0.0212 (ppm)	0.06	0.0212 (ppm)	1514.6594
2/24/2018 01:28:16	R1801482-002	Fe (234.350 nm)	0.4482 (ppm)	0.39	0.4482 (ppm)	5062.8835
2/24/2018 01:28:16	R1801482-002	K (766.491 nm)	6.9279 (ppm)	0.39	6.9279 (ppm)	25483.8850
2/24/2018 01:28:16	R1801482-002	Mg (279.078 nm)	33.0028 (ppm)	0.33	33.0028 (ppm)	68146.9527
2/24/2018 01:28:16	R1801482-002	Mn (257.610 nm)	0.0584 (ppm)	0.31	0.0584 (ppm)	18949.2788
2/24/2018 01:28:16	R1801482-002	Mo (202.032 nm)	0.0027 (ppm)	11.77	0.0027 (ppm)	31.3958
2/24/2018 01:28:16	R1801482-002	Na (588.995 nm)	52.6305 (ppm)	0.44	52.6305 (ppm)	2840806.0528
2/24/2018 01:28:16	R1801482-002	Ni (230.299 nm)	-0.0005 u (ppm)	68.69	-0.0005 (ppm)	-26.9026
2/24/2018 01:28:16	R1801482-002	Pb (220.353 nm)	-0.0009 u (ppm)	67.98	-0.0009 (ppm)	3.6712
2/24/2018 01:28:16	R1801482-002	Sb (217.582 nm)	0.0037 (ppm)	78.44	0.0037 (ppm)	4.3287
2/24/2018 01:28:16	R1801482-002	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-1.4020
2/24/2018 01:28:16	R1801482-002	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	0.1970
2/24/2018 01:28:16	R1801482-002	Sr (216.596 nm)	0.4783 (ppm)	0.45	0.4783 (ppm)	6618.9153
2/24/2018 01:28:16	R1801482-002	Ti (336.122 nm)	0.0141 (ppm)	2.33	0.0141 (ppm)	2646.0341
2/24/2018 01:28:16	R1801482-002	Tl (351.923 nm)	0.0022 (ppm)	83.41	0.0022 (ppm)	24.8156
2/24/2018 01:28:16	R1801482-002	V (292.401 nm)	0.0015 (ppm)	11.85	0.0015 (ppm)	154.6931

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:28:16	R1801482-002	Y (360.074 nm)	0.94 (Ratio)	0.34	0.94 (Ratio)	930239.23
2/24/2018 01:28:16	R1801482-002	Y_R (360.074 nm)	0.94 (Ratio)	0.34	0.94 (Ratio)	932145.13
2/24/2018 01:28:16	R1801482-002	Zn (213.857 nm)	0.0231 (ppm)	1.33	0.0231 (ppm)	666.8603
2/24/2018 01:31:37	R1801485-001	Ag (328.068 nm)	0.0291 (ppm)	0.52	0.0291 (ppm)	2142.8450
2/24/2018 01:31:37	R1801485-001	Al (394.401 nm)	3.4350 (ppm)	0.76	3.4350 (ppm)	49760.7893
2/24/2018 01:31:37	R1801485-001	As (188.980 nm)	0.0156 (ppm)	9.39	0.0156 (ppm)	11.9944
2/24/2018 01:31:37	R1801485-001	B (249.772 nm)	1.9333 (ppm)	0.34	1.9333 (ppm)	58866.9463
2/24/2018 01:31:37	R1801485-001	Ba (230.424 nm)	0.0896 (ppm)	0.87	0.0896 (ppm)	3137.5194
2/24/2018 01:31:37	R1801485-001	Be (313.107 nm)	-0.0001 u (ppm)	8.96	-0.0001 (ppm)	-670.7422
2/24/2018 01:31:37	R1801485-001	Ca (227.547 nm)	141.5761 o (ppm)	0.22	141.5761 (ppm)	9903.0379
2/24/2018 01:31:37	R1801485-001	Cd (214.439 nm)	0.0010 (ppm)	14.34	0.0010 (ppm)	37.6141
2/24/2018 01:31:37	R1801485-001	Co (230.786 nm)	0.0048 (ppm)	9.04	0.0048 (ppm)	45.9813
2/24/2018 01:31:37	R1801485-001	Cr (267.716 nm)	0.2552 (ppm)	0.42	0.2552 (ppm)	12339.5860
2/24/2018 01:31:37	R1801485-001	Cu (327.395 nm)	0.7230 (ppm)	0.14	0.7230 (ppm)	50844.3932
2/24/2018 01:31:37	R1801485-001	Fe (234.350 nm)	18.5042 o (ppm)	0.88	18.5042 (ppm)	208243.9315
2/24/2018 01:31:37	R1801485-001	K (766.491 nm)	381.8008 o (ppm)	0.78	381.8008 (ppm)	1404594.4198
2/24/2018 01:31:37	R1801485-001	Mg (279.078 nm)	34.3301 (ppm)	0.93	34.3301 (ppm)	70887.8765
2/24/2018 01:31:37	R1801485-001	Mn (257.610 nm)	0.5364 (ppm)	0.64	0.5364 (ppm)	174128.3360
2/24/2018 01:31:37	R1801485-001	Mo (202.032 nm)	0.2173 (ppm)	1.27	0.2173 (ppm)	2278.9831
2/24/2018 01:31:37	R1801485-001	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
2/24/2018 01:31:37	R1801485-001	Ni (230.299 nm)	0.1354 (ppm)	1.16	0.1354 (ppm)	942.8913
2/24/2018 01:31:37	R1801485-001	Pb (220.353 nm)	0.0669 (ppm)	3.11	0.0669 (ppm)	158.3764
2/24/2018 01:31:37	R1801485-001	Sb (217.582 nm)	0.0038 (ppm)	40.48	0.0038 (ppm)	4.4804
2/24/2018 01:31:37	R1801485-001	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-2.3640
2/24/2018 01:31:37	R1801485-001	Sn (189.925 nm)	0.0155 (ppm)	29.58	0.0155 (ppm)	20.1641
2/24/2018 01:31:37	R1801485-001	Sr (216.596 nm)	0.6144 (ppm)	1.08	0.6144 (ppm)	8504.7669
2/24/2018 01:31:37	R1801485-001	Ti (336.122 nm)	0.0372 (ppm)	6.67	0.0372 (ppm)	7831.3821
2/24/2018 01:31:37	R1801485-001	Tl (351.923 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	13.0686
2/24/2018 01:31:37	R1801485-001	V (292.401 nm)	0.0064 (ppm)	2.64	0.0064 (ppm)	342.2750
2/24/2018 01:31:37	R1801485-001	Y (360.074 nm)	0.56 (Ratio)	0.57	0.56 (Ratio)	558473.61
2/24/2018 01:31:37	R1801485-001	Y_R (360.074 nm)	0.56 (Ratio)	0.56	0.56 (Ratio)	559793.12
2/24/2018 01:31:37	R1801485-001	Zn (213.857 nm)	4.7556 o (ppm)	0.25	4.7556 (ppm)	143638.4410
2/24/2018 01:34:57	Continuing Calibration Verification 1	Ag (328.068 nm)	0.4780 (ppm)	0.31	0.4780 (ppm)	37002.0107
2/24/2018 01:34:57	Continuing Calibration Verification 1	Al (394.401 nm)	9.4103 (ppm)	0.21	9.4103 (ppm)	136206.5953
2/24/2018 01:34:57	Continuing Calibration Verification 1	As (188.980 nm)	0.9634 (ppm)	1.08	0.9634 (ppm)	899.5915
2/24/2018 01:34:57	Continuing Calibration Verification 1	B (249.772 nm)	2.4363 (ppm)	0.39	2.4363 (ppm)	74159.3896
2/24/2018 01:34:57	Continuing Calibration Verification 1	Ba (230.424 nm)	10.3436 (ppm)	0.46	10.3436 (ppm)	361557.3356
2/24/2018 01:34:57	Continuing Calibration Verification 1	Be (313.107 nm)	0.2562 (ppm)	0.60	0.2562 (ppm)	385728.9815
2/24/2018 01:34:57	Continuing Calibration Verification 1	Ca (227.547 nm)	23.8902 (ppm)	0.34	23.8902 (ppm)	1677.2924
2/24/2018 01:34:57	Continuing Calibration Verification 1	Cd (214.439 nm)	0.5063 (ppm)	0.72	0.5063 (ppm)	10870.8686
2/24/2018 01:34:57	Continuing Calibration Verification 1	Co (230.786 nm)	2.5875 (ppm)	0.54	2.5875 (ppm)	27547.4509
2/24/2018 01:34:57	Continuing Calibration Verification 1	Cr (267.716 nm)	0.5356 (ppm)	0.54	0.5356 (ppm)	25904.4399
2/24/2018 01:34:57	Continuing Calibration Verification 1	Cu (327.395 nm)	1.1889 (ppm)	0.10	1.1889 (ppm)	83594.9550
2/24/2018 01:34:57	Continuing Calibration Verification 1	Fe (234.350 nm)	5.1120 (ppm)	0.49	5.1120 (ppm)	57543.8002
2/24/2018 01:34:57	Continuing Calibration Verification 1	K (766.491 nm)	24.4284 (ppm)	0.18	24.4284 (ppm)	89865.7946
2/24/2018 01:34:57	Continuing Calibration Verification 1	Mg (279.078 nm)	25.3719 (ppm)	0.45	25.3719 (ppm)	52389.1020
2/24/2018 01:34:57	Continuing Calibration Verification 1	Mn (257.610 nm)	0.7729 (ppm)	0.50	0.7729 (ppm)	250918.1136
2/24/2018 01:34:57	Continuing Calibration Verification 1	Mo (202.032 nm)	2.4286 (ppm)	0.56	2.4286 (ppm)	25435.0605
2/24/2018 01:34:57	Continuing Calibration Verification 1	Na (588.995 nm)	26.2654 (ppm)	0.33	26.2654 (ppm)	1415412.6115
2/24/2018 01:34:57	Continuing Calibration Verification 1	Ni (230.299 nm)	2.0741 (ppm)	0.42	2.0741 (ppm)	14776.6951
2/24/2018 01:34:57	Continuing Calibration Verification 1	Pb (220.353 nm)	0.5060 (ppm)	0.59	0.5060 (ppm)	1159.5014

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:34:57	Continuing Calibration Verification 1	Sb (217.582 nm)	4.8136 (ppm)	0.28	4.8136 (ppm)	7659.0907
2/24/2018 01:34:57	Continuing Calibration Verification 1	Se (196.026 nm)	0.4813 (ppm)	0.76	0.4813 (ppm)	455.9550
2/24/2018 01:34:57	Continuing Calibration Verification 1	Sn (189.925 nm)	5.0792 (ppm)	0.39	5.0792 (ppm)	6258.7189
2/24/2018 01:34:57	Continuing Calibration Verification 1	Sr (216.596 nm)	2.6425 (ppm)	0.61	2.6425 (ppm)	36591.3908
2/24/2018 01:34:57	Continuing Calibration Verification 1	Ti (336.122 nm)	2.4765 (ppm)	0.21	2.4765 (ppm)	555361.2151
2/24/2018 01:34:57	Continuing Calibration Verification 1	Tl (351.923 nm)	0.9624 (ppm)	0.17	0.9624 (ppm)	2902.6306
2/24/2018 01:34:57	Continuing Calibration Verification 1	V (292.401 nm)	2.5145 (ppm)	0.36	2.5145 (ppm)	96268.6573
2/24/2018 01:34:57	Continuing Calibration Verification 1	Y (360.074 nm)	0.95 (Ratio)	0.52	0.95 (Ratio)	945230.63
2/24/2018 01:34:57	Continuing Calibration Verification 1	Y_R (360.074 nm)	0.96 (Ratio)	0.52	0.96 (Ratio)	947144.90
2/24/2018 01:34:57	Continuing Calibration Verification 1	Zn (213.857 nm)	1.0103 (ppm)	0.52	1.0103 (ppm)	30489.4244
2/24/2018 01:38:18	Continuing Calibration Blank 1	Ag (328.068 nm)	-0.0002 u (ppm)	41.01	-0.0002 (ppm)	-130.2966
2/24/2018 01:38:18	Continuing Calibration Blank 1	Al (394.401 nm)	0.0078 (ppm)	4.75	0.0078 (ppm)	179.9462
2/24/2018 01:38:18	Continuing Calibration Blank 1	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.9372
2/24/2018 01:38:18	Continuing Calibration Blank 1	B (249.772 nm)	0.0029 (ppm)	11.01	0.0029 (ppm)	176.7944
2/24/2018 01:38:18	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0047 (ppm)	3.19	0.0047 (ppm)	168.2781
2/24/2018 01:38:18	Continuing Calibration Blank 1	Be (313.107 nm)	0.0001 (ppm)	8.46	0.0001 (ppm)	-383.2838
2/24/2018 01:38:18	Continuing Calibration Blank 1	Ca (227.547 nm)	0.1126 (ppm)	32.54	0.1126 (ppm)	15.3378
2/24/2018 01:38:18	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0002 (ppm)	33.44	0.0002 (ppm)	20.8382
2/24/2018 01:38:18	Continuing Calibration Blank 1	Co (230.786 nm)	0.0010 (ppm)	26.70	0.0010 (ppm)	5.0665
2/24/2018 01:38:18	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0002 (ppm)	83.07	0.0002 (ppm)	4.3170
2/24/2018 01:38:18	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0004 (ppm)	14.35	0.0004 (ppm)	58.6192
2/24/2018 01:38:18	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0042 (ppm)	2.58	0.0042 (ppm)	66.8379
2/24/2018 01:38:18	Continuing Calibration Blank 1	K (766.491 nm)	0.0745 (ppm)	11.86	0.0745 (ppm)	270.8645
2/24/2018 01:38:18	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0155 (ppm)	8.65	0.0155 (ppm)	27.7561
2/24/2018 01:38:18	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0004 (ppm)	3.17	0.0004 (ppm)	127.8213
2/24/2018 01:38:18	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0032 (ppm)	16.81	0.0032 (ppm)	37.2302
2/24/2018 01:38:18	Continuing Calibration Blank 1	Na (588.995 nm)	0.3337 (ppm)	5.03	0.3337 (ppm)	13450.8210
2/24/2018 01:38:18	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-21.3149
2/24/2018 01:38:18	Continuing Calibration Blank 1	Pb (220.353 nm)	-0.0010 u (ppm)	18.45	-0.0010 (ppm)	3.3320
2/24/2018 01:38:18	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0050 (ppm)	30.71	0.0050 (ppm)	6.5097
2/24/2018 01:38:18	Continuing Calibration Blank 1	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.5821
2/24/2018 01:38:18	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	1.9490
2/24/2018 01:38:18	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0021 (ppm)	9.20	0.0021 (ppm)	24.4819
2/24/2018 01:38:18	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0018 (ppm)	1.66	0.0018 (ppm)	-125.3945
2/24/2018 01:38:18	Continuing Calibration Blank 1	Tl (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	23.3240
2/24/2018 01:38:18	Continuing Calibration Blank 1	V (292.401 nm)	0.0012 (ppm)	18.54	0.0012 (ppm)	142.3567
2/24/2018 01:38:18	Continuing Calibration Blank 1	Y (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	996711.43
2/24/2018 01:38:18	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	998635.59
2/24/2018 01:38:18	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0003 (ppm)	12.84	0.0003 (ppm)	-21.0396
2/24/2018 01:41:39	Contract Required Detection Limit	Ag (328.068 nm)	0.0094 (ppm)	0.45	0.0094 (ppm)	610.6412
2/24/2018 01:41:39	Contract Required Detection Limit	Al (394.401 nm)	0.1753 (ppm)	1.12	0.1753 (ppm)	2602.1478
2/24/2018 01:41:39	Contract Required Detection Limit	As (188.980 nm)	0.0199 (ppm)	10.50	0.0199 (ppm)	15.9801
2/24/2018 01:41:39	Contract Required Detection Limit	B (249.772 nm)	0.1944 (ppm)	0.87	0.1944 (ppm)	5996.8691
2/24/2018 01:41:39	Contract Required Detection Limit	Ba (230.424 nm)	0.2101 (ppm)	1.30	0.2101 (ppm)	7348.2101
2/24/2018 01:41:39	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	1.12	0.0050 (ppm)	6838.6317
2/24/2018 01:41:39	Contract Required Detection Limit	Ca (227.547 nm)	0.9419 (ppm)	3.78	0.9419 (ppm)	73.2961
2/24/2018 01:41:39	Contract Required Detection Limit	Cd (214.439 nm)	0.0100 (ppm)	0.67	0.0100 (ppm)	229.4201
2/24/2018 01:41:39	Contract Required Detection Limit	Co (230.786 nm)	0.0509 (ppm)	1.58	0.0509 (ppm)	536.3892
2/24/2018 01:41:39	Contract Required Detection Limit	Cr (267.716 nm)	0.0103 (ppm)	1.90	0.0103 (ppm)	493.9792
2/24/2018 01:41:39	Contract Required Detection Limit	Cu (327.395 nm)	0.0237 (ppm)	0.61	0.0237 (ppm)	1693.2459
2/24/2018 01:41:39	Contract Required Detection Limit	Fe (234.350 nm)	0.1063 (ppm)	1.32	0.1063 (ppm)	1215.0701

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:41:39	Contract Required Detection Limit	K (766.491 nm)	0.9534 (ppm)	0.29	0.9534 (ppm)	3504.3457
2/24/2018 01:41:39	Contract Required Detection Limit	Mg (279.078 nm)	1.0303 (ppm)	1.05	1.0303 (ppm)	2123.1895
2/24/2018 01:41:39	Contract Required Detection Limit	Mn (257.610 nm)	0.0155 (ppm)	0.97	0.0155 (ppm)	5040.2977
2/24/2018 01:41:39	Contract Required Detection Limit	Mo (202.032 nm)	0.0248 (ppm)	1.28	0.0248 (ppm)	263.1235
2/24/2018 01:41:39	Contract Required Detection Limit	Na (588.995 nm)	1.1704 (ppm)	0.26	1.1704 (ppm)	58684.7728
2/24/2018 01:41:39	Contract Required Detection Limit	Ni (230.299 nm)	0.0413 (ppm)	0.68	0.0413 (ppm)	271.1049
2/24/2018 01:41:39	Contract Required Detection Limit	Pb (220.353 nm)	0.0100 (ppm)	3.93	0.0100 (ppm)	28.5911
2/24/2018 01:41:39	Contract Required Detection Limit	Sb (217.582 nm)	0.0605 (ppm)	1.15	0.0605 (ppm)	94.8176
2/24/2018 01:41:39	Contract Required Detection Limit	Se (196.026 nm)	0.0104 (ppm)	22.92	0.0104 (ppm)	8.0053
2/24/2018 01:41:39	Contract Required Detection Limit	Sn (189.925 nm)	0.5030 (ppm)	0.86	0.5030 (ppm)	620.8098
2/24/2018 01:41:39	Contract Required Detection Limit	Sr (216.596 nm)	0.1045 (ppm)	1.21	0.1045 (ppm)	1443.1206
2/24/2018 01:41:39	Contract Required Detection Limit	Ti (336.122 nm)	0.0495 (ppm)	0.69	0.0495 (ppm)	10595.8872
2/24/2018 01:41:39	Contract Required Detection Limit	Tl (351.923 nm)	0.0163 (ppm)	12.60	0.0163 (ppm)	67.1394
2/24/2018 01:41:39	Contract Required Detection Limit	V (292.401 nm)	0.0485 (ppm)	0.74	0.0485 (ppm)	1854.7842
2/24/2018 01:41:39	Contract Required Detection Limit	Y (360.074 nm)	1.01 (Ratio)	0.29	1.01 (Ratio)	997670.21
2/24/2018 01:41:39	Contract Required Detection Limit	Y_R (360.074 nm)	1.01 (Ratio)	0.29	1.01 (Ratio)	999625.13
2/24/2018 01:41:39	Contract Required Detection Limit	Zn (213.857 nm)	0.0202 (ppm)	1.96	0.0202 (ppm)	579.9156
2/24/2018 01:45:00	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u (ppm)	7.68	-0.0003 (ppm)	-142.8431
2/24/2018 01:45:00	Interference Check Solution A	Al (394.401 nm)	262.8141 o (ppm)	0.30	262.8141 (ppm)	3802223.1172
2/24/2018 01:45:00	Interference Check Solution A	As (188.980 nm)	0.0030 (ppm)	11.14	0.0030 (ppm)	0.1382
2/24/2018 01:45:00	Interference Check Solution A	B (249.772 nm)	0.0395 (ppm)	0.97	0.0395 (ppm)	1289.5643
2/24/2018 01:45:00	Interference Check Solution A	Ba (230.424 nm)	0.0007 (ppm)	6.04	0.0007 (ppm)	29.5432
2/24/2018 01:45:00	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	17.63	-0.0001 (ppm)	-650.7303
2/24/2018 01:45:00	Interference Check Solution A	Ce (227.547 nm)	261.7010 o (ppm)	0.30	261.7010 (ppm)	18299.2620
2/24/2018 01:45:00	Interference Check Solution A	Cd (214.439 nm)	-0.0008 u (ppm)	23.36	-0.0008 (ppm)	-2.4899
2/24/2018 01:45:00	Interference Check Solution A	Co (230.786 nm)	-0.0022 u (ppm)	16.43	-0.0022 (ppm)	-28.5800
2/24/2018 01:45:00	Interference Check Solution A	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.5039
2/24/2018 01:45:00	Interference Check Solution A	Cu (327.395 nm)	0.0005 (ppm)	33.38	0.0005 (ppm)	63.2884
2/24/2018 01:45:00	Interference Check Solution A	Fe (234.350 nm)	93.8385 o (ppm)	0.35	93.8385 (ppm)	1055969.7210
2/24/2018 01:45:00	Interference Check Solution A	K (766.491 nm)	0.0489 (ppm)	11.91	0.0489 (ppm)	176.9626
2/24/2018 01:45:00	Interference Check Solution A	Mg (279.078 nm)	268.4260 o (ppm)	0.17	268.4260 (ppm)	554299.4021
2/24/2018 01:45:00	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	0.37	0.0017 (ppm)	544.1035
2/24/2018 01:45:00	Interference Check Solution A	Mo (202.032 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	11.8978
2/24/2018 01:45:00	Interference Check Solution A	Na (588.995 nm)	0.2219 (ppm)	9.96	0.2219 (ppm)	7401.8718
2/24/2018 01:45:00	Interference Check Solution A	Ni (230.299 nm)	-0.0029 u (ppm)	6.63	-0.0029 (ppm)	-44.1960
2/24/2018 01:45:00	Interference Check Solution A	Pb (220.353 nm)	-0.0029 u (ppm)	16.43	-0.0029 (ppm)	-0.8401
2/24/2018 01:45:00	Interference Check Solution A	Sb (217.582 nm)	-0.0043 u (ppm)	26.03	-0.0043 (ppm)	-8.3409
2/24/2018 01:45:00	Interference Check Solution A	Se (196.026 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	0.8497
2/24/2018 01:45:00	Interference Check Solution A	Sn (189.925 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-1.0130
2/24/2018 01:45:00	Interference Check Solution A	Sr (216.596 nm)	0.0212 (ppm)	4.37	0.0212 (ppm)	288.5489
2/24/2018 01:45:00	Interference Check Solution A	Ti (336.122 nm)	0.0019 (ppm)	0.63	0.0019 (ppm)	-84.4095
2/24/2018 01:45:00	Interference Check Solution A	Tl (351.923 nm)	0.0031 (ppm)	66.41	0.0031 (ppm)	27.4347
2/24/2018 01:45:00	Interference Check Solution A	V (292.401 nm)	0.0034 K (ppm)	0.91	0.0034 (ppm)	229.0547 K
2/24/2018 01:45:00	Interference Check Solution A	Y (360.074 nm)	0.87 (Ratio)	0.38	0.87 (Ratio)	863563.90
2/24/2018 01:45:00	Interference Check Solution A	Y_R (360.074 nm)	0.87 (Ratio)	0.38	0.87 (Ratio)	865396.69
2/24/2018 01:45:00	Interference Check Solution A	Zn (213.857 nm)	0.0130 K (ppm)	0.68	0.0130 (ppm)	360.5497 K
2/24/2018 01:48:21	Interference Check Solution AB	Ag (328.068 nm)	0.2164 (ppm)	0.47	0.2164 (ppm)	16686.5350
2/24/2018 01:48:21	Interference Check Solution AB	Al (394.401 nm)	261.8597 o (ppm)	0.29	261.8597 (ppm)	3788414.8566
2/24/2018 01:48:21	Interference Check Solution AB	As (188.980 nm)	0.1047 (ppm)	4.71	0.1047 (ppm)	95.4265
2/24/2018 01:48:21	Interference Check Solution AB	B (249.772 nm)	0.0407 (ppm)	1.02	0.0407 (ppm)	1325.8548
2/24/2018 01:48:21	Interference Check Solution AB	Ba (230.424 nm)	0.5308 (ppm)	0.91	0.5308 (ppm)	18559.7331

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:48:21	Interference Check Solution AB	Be (313.107 nm)	0.5178 (ppm)	0.11	0.5178 (ppm)	780079.4070
2/24/2018 01:48:21	Interference Check Solution AB	Ca (227.547 nm)	260.8249 o (ppm)	0.25	260.8249 (ppm)	18238.0316
2/24/2018 01:48:21	Interference Check Solution AB	Cd (214.439 nm)	0.9855 (ppm)	0.68	0.9855 (ppm)	21142.4735
2/24/2018 01:48:21	Interference Check Solution AB	Co (230.786 nm)	0.4994 (ppm)	0.42	0.4994 (ppm)	5311.8699
2/24/2018 01:48:21	Interference Check Solution AB	Cr (267.716 nm)	0.5250 (ppm)	0.46	0.5250 (ppm)	25393.6303
2/24/2018 01:48:21	Interference Check Solution AB	Cu (327.395 nm)	0.5249 (ppm)	0.30	0.5249 (ppm)	36925.1253
2/24/2018 01:48:21	Interference Check Solution AB	Fe (234.350 nm)	93.7917 o (ppm)	0.52	93.7917 (ppm)	1055443.3957
2/24/2018 01:48:21	Interference Check Solution AB	K (766.491 nm)	0.0382 (ppm)	13.69	0.0382 (ppm)	137.3512
2/24/2018 01:48:21	Interference Check Solution AB	Mg (279.078 nm)	267.9684 o (ppm)	0.35	267.9684 (ppm)	553354.4116
2/24/2018 01:48:21	Interference Check Solution AB	Mn (257.610 nm)	0.5092 (ppm)	0.38	0.5092 (ppm)	165317.6079
2/24/2018 01:48:23	Interference Check Solution AB	Mo (202.032 nm)	0.0003 (ppm)	12.12	0.0003 (ppm)	6.5686
2/24/2018 01:48:21	Interference Check Solution AB	Ne (588.995 nm)	0.2020 (ppm)	6.76	0.2020 (ppm)	6327.0874
2/24/2018 01:48:21	Interference Check Solution AB	Ni (230.299 nm)	0.9816 (ppm)	0.57	0.9816 (ppm)	6980.6168
2/24/2018 01:48:21	Interference Check Solution AB	Pb (220.353 nm)	0.0479 (ppm)	3.87	0.0479 (ppm)	115.0039
2/24/2018 01:48:21	Interference Check Solution AB	Sb (217.582 nm)	0.6115 (ppm)	0.07	0.6115 (ppm)	971.7580
2/24/2018 01:48:21	Interference Check Solution AB	Se (196.026 nm)	0.0495 (ppm)	15.42	0.0495 (ppm)	45.1859
2/24/2018 01:48:21	Interference Check Solution AB	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.6377
2/24/2018 01:48:21	Interference Check Solution AB	Sr (216.596 nm)	0.0219 (ppm)	2.27	0.0219 (ppm)	298.1701
2/24/2018 01:48:21	Interference Check Solution AB	Ti (336.122 nm)	0.0018 (ppm)	3.26	0.0018 (ppm)	-119.1618
2/24/2018 01:48:21	Interference Check Solution AB	Ti (351.923 nm)	0.1132 (ppm)	2.40	0.1132 (ppm)	357.4009
2/24/2018 01:48:21	Interference Check Solution AB	V (292.401 nm)	0.5083 (ppm)	0.45	0.5083 (ppm)	19538.7660
2/24/2018 01:48:21	Interference Check Solution AB	Y (360.074 nm)	0.87 (Ratio)	0.50	0.87 (Ratio)	864093.03
2/24/2018 01:48:21	Interference Check Solution AB	Y_R (360.074 nm)	0.87 (Ratio)	0.50	0.87 (Ratio)	865929.13
2/24/2018 01:48:21	Interference Check Solution AB	Zn (213.857 nm)	1.0537 (ppm)	0.40	1.0537 (ppm)	31800.5742
2/24/2018 01:51:41	Continuing Calibration Verification1	Ag (328.068 nm)	0.4765 (ppm)	0.32	0.4765 (ppm)	36883.7336
2/24/2018 01:51:41	Continuing Calibration Verification1	Al (394.401 nm)	9.3906 (ppm)	0.22	9.3906 (ppm)	135921.8013
2/24/2018 01:51:41	Continuing Calibration Verification1	As (188.980 nm)	0.9598 (ppm)	0.26	0.9598 (ppm)	896.2357
2/24/2018 01:51:41	Continuing Calibration Verification1	B (249.772 nm)	2.4352 (ppm)	0.34	2.4352 (ppm)	74125.7630
2/24/2018 01:51:41	Continuing Calibration Verification1	Be (230.424 nm)	10.3184 (ppm)	0.68	10.3184 (ppm)	360676.8880
2/24/2018 01:51:41	Continuing Calibration Verification1	Be (313.107 nm)	0.2556 (ppm)	0.17	0.2556 (ppm)	384786.9062
2/24/2018 01:51:41	Continuing Calibration Verification1	Ca (227.547 nm)	23.8076 (ppm)	0.21	23.8076 (ppm)	1671.5176
2/24/2018 01:51:41	Continuing Calibration Verification1	Cd (214.439 nm)	0.5036 (ppm)	0.43	0.5036 (ppm)	10811.8806
2/24/2018 01:51:41	Continuing Calibration Verification1	Co (230.786 nm)	2.5751 (ppm)	0.38	2.5751 (ppm)	27415.4057
2/24/2018 01:51:41	Continuing Calibration Verification1	Cr (267.716 nm)	0.5349 (ppm)	0.46	0.5349 (ppm)	25869.8972
2/24/2018 01:51:41	Continuing Calibration Verification1	Cu (327.395 nm)	1.1862 (ppm)	0.25	1.1862 (ppm)	83405.1230
2/24/2018 01:51:41	Continuing Calibration Verification1	Fe (234.350 nm)	5.1121 (ppm)	0.41	5.1121 (ppm)	57544.6908
2/24/2018 01:51:41	Continuing Calibration Verification1	K (766.491 nm)	24.3946 (ppm)	0.43	24.3946 (ppm)	89741.5821
2/24/2018 01:51:41	Continuing Calibration Verification1	Mg (279.078 nm)	25.3064 (ppm)	0.37	25.3064 (ppm)	52253.7509
2/24/2018 01:51:41	Continuing Calibration Verification1	Mn (257.610 nm)	0.7710 (ppm)	0.43	0.7710 (ppm)	250285.0500
2/24/2018 01:51:41	Continuing Calibration Verification1	Mo (202.032 nm)	2.4146 (ppm)	0.51	2.4146 (ppm)	25287.6223
2/24/2018 01:51:41	Continuing Calibration Verification1	Na (588.995 nm)	26.5628 (ppm)	0.50	26.5628 (ppm)	1431490.6318
2/24/2018 01:51:41	Continuing Calibration Verification1	Ni (230.299 nm)	2.0637 (ppm)	0.33	2.0637 (ppm)	14702.4343
2/24/2018 01:51:41	Continuing Calibration Verification1	Pb (220.353 nm)	0.5024 (ppm)	0.85	0.5024 (ppm)	1151.3723
2/24/2018 01:51:41	Continuing Calibration Verification1	Sb (217.582 nm)	4.7988 (ppm)	0.26	4.7988 (ppm)	7635.5200
2/24/2018 01:51:41	Continuing Calibration Verification1	Se (196.026 nm)	0.4800 (ppm)	1.04	0.4800 (ppm)	454.7202
2/24/2018 01:51:41	Continuing Calibration Verification1	Sn (189.925 nm)	5.0331 (ppm)	0.85	5.0331 (ppm)	6201.8922
2/24/2018 01:51:41	Continuing Calibration Verification1	Sr (216.596 nm)	2.6225 (ppm)	0.77	2.6225 (ppm)	36315.2210
2/24/2018 01:51:41	Continuing Calibration Verification1	Ti (336.122 nm)	2.4701 (ppm)	0.54	2.4701 (ppm)	553927.7158
2/24/2018 01:51:41	Continuing Calibration Verification1	Ti (351.923 nm)	0.9619 (ppm)	0.38	0.9619 (ppm)	2901.2377
2/24/2018 01:51:41	Continuing Calibration Verification1	V (292.401 nm)	2.5060 (ppm)	0.37	2.5060 (ppm)	95944.7185
2/24/2018 01:51:41	Continuing Calibration Verification1	Y (360.074 nm)	0.95 (Ratio)	0.62	0.95 (Ratio)	945232.44

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
2/24/2018 01:51:41	Continuing Calibration Verification1	Y_R (360.074 nm)	0.96 (Ratio)	0.62	0.96 (Ratio)	947159.01
2/24/2018 01:51:41	Continuing Calibration Verification1	Zn (213.857 nm)	1.0044 (ppm)	0.40	1.0044 (ppm)	30311.2431
2/24/2018 01:55:02	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u (ppm)	29.76	-0.0002 (ppm)	-132.7783
2/24/2018 01:55:02	Continuing Calibration Blank1	Al (394.401 nm)	0.0079 (ppm)	7.63	0.0079 (ppm)	180.7072
2/24/2018 01:55:02	Continuing Calibration Blank1	As (188.980 nm)	0.0016 (ppm)	98.08	0.0016 (ppm)	-1.0963
2/24/2018 01:55:02	Continuing Calibration Blank1	B (249.772 nm)	0.0026 (ppm)	18.32	0.0026 (ppm)	165.2327
2/24/2018 01:55:02	Continuing Calibration Blank1	Ba (230.424 nm)	0.0050 (ppm)	2.41	0.0050 (ppm)	180.0614
2/24/2018 01:55:02	Continuing Calibration Blank1	Ba (313.107 nm)	0.0001 (ppm)	5.53	0.0001 (ppm)	-372.6679
2/24/2018 01:55:02	Continuing Calibration Blank1	Ca (227.547 nm)	0.0947 (ppm)	34.94	0.0947 (ppm)	14.0847
2/24/2018 01:55:02	Continuing Calibration Blank1	Cd (214.439 nm)	0.0003 (ppm)	29.33	0.0003 (ppm)	22.1670
2/24/2018 01:55:02	Continuing Calibration Blank1	Co (230.786 nm)	0.0010 (ppm)	33.03	0.0010 (ppm)	4.5680
2/24/2018 01:55:02	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002 (ppm)	33.61	0.0002 (ppm)	3.2786
2/24/2018 01:55:02	Continuing Calibration Blank1	Cu (327.395 nm)	0.0004 (ppm)	19.78	0.0004 (ppm)	59.0770
2/24/2018 01:55:02	Continuing Calibration Blank1	Fe (234.350 nm)	0.0048 (ppm)	8.65	0.0048 (ppm)	73.3885
2/24/2018 01:55:02	Continuing Calibration Blank1	K (766.491 nm)	0.0642 (ppm)	18.31	0.0642 (ppm)	233.1422
2/24/2018 01:55:02	Continuing Calibration Blank1	Mg (279.078 nm)	0.0197 (ppm)	6.55	0.0197 (ppm)	35.4164
2/24/2018 01:55:02	Continuing Calibration Blank1	Mn (257.610 nm)	0.0004 (ppm)	2.30	0.0004 (ppm)	138.2739
2/24/2018 01:55:02	Continuing Calibration Blank1	Mo (202.032 nm)	0.0035 (ppm)	11.35	0.0035 (ppm)	40.2114
2/24/2018 01:55:02	Continuing Calibration Blank1	Na (588.995 nm)	0.2972 (ppm)	5.00	0.2972 (ppm)	11477.3094
2/24/2018 01:55:02	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-20.8251
2/24/2018 01:55:02	Continuing Calibration Blank1	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.6478
2/24/2018 01:55:02	Continuing Calibration Blank1	Sb (217.582 nm)	0.0047 (ppm)	35.69	0.0047 (ppm)	5.9101
2/24/2018 01:55:02	Continuing Calibration Blank1	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.0777
2/24/2018 01:55:02	Continuing Calibration Blank1	Sn (189.925 nm)	0.0020 (ppm)	40.05	0.0020 (ppm)	3.5753
2/24/2018 01:55:02	Continuing Calibration Blank1	Sr (216.596 nm)	0.0023 (ppm)	5.35	0.0023 (ppm)	27.8284
2/24/2018 01:55:02	Continuing Calibration Blank1	Ti (336.122 nm)	0.0017 (ppm)	1.23	0.0017 (ppm)	-133.9334
2/24/2018 01:55:02	Continuing Calibration Blank1	Ti (351.923 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	17.0931
2/24/2018 01:55:02	Continuing Calibration Blank1	V (292.401 nm)	0.0013 (ppm)	0.65	0.0013 (ppm)	147.9029
2/24/2018 01:55:02	Continuing Calibration Blank1	Y (360.074 nm)	1.01 (Ratio)	0.55	1.01 (Ratio)	994842.29
2/24/2018 01:55:02	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01 (Ratio)	0.55	1.01 (Ratio)	996780.01
2/24/2018 01:55:02	Continuing Calibration Blank1	Zn (213.857 nm)	0.0005 (ppm)	16.42	0.0005 (ppm)	-16.7014





Ag (328.068 nm)  
Intensity = 77655.8848 \* Concentration - 115.9919  
Correlation coefficient: 1.00000

As (188.980 nm)  
Intensity = 936.5204 \* Concentration - 2.6363  
Correlation coefficient: 1.00000

B (249.772 nm)  
Intensity = 30402.9978 \* Concentration + 87.3421  
Correlation coefficient: 1.00000

Ba (230.424 nm)  
Intensity = 34954.1129 \* Concentration + 4.7635  
Correlation coefficient: 0.99987

Be (313.107 nm)  
Intensity = 1507593.8069 \* Concentration - 574.2592  
Correlation coefficient: 0.99998

Cd (214.439 nm)  
Intensity = 21438.6174 \* Concentration + 15.5985  
Correlation coefficient: 0.99993

Co (230.786 nm)  
Intensity = 10648.4730 \* Concentration - 5.6505  
Correlation coefficient: 0.99995

Cr (267.716 nm)  
Intensity = 48374.3762 \* Concentration - 5.0702  
Correlation coefficient: 0.99996

Cu (327.395 nm)  
Intensity = 70287.4974 \* Concentration + 27.8714  
Correlation coefficient: 1.00000

K (766.491 nm)  
Intensity = 3678.8747 \* Concentration - 3.0729  
Correlation coefficient: 0.99998

Mn (257.610 nm)  
Intensity = 324628.3345 \* Concentration + 2.0659  
Correlation coefficient: 0.99995

Mo (202.032 nm)  
Intensity = 10471.5283 \* Concentration + 3.5930  
Correlation coefficient: 0.99998

Na (588.995 nm)  
Intensity = 54063.6609 \* Concentration - 4592.2675  
Correlation coefficient: 1.00000

Ni (230.299 nm)  
Intensity = 7135.4998 \* Concentration - 23.2629  
Correlation coefficient: 0.99993

Pb (220.353 nm)  
Intensity = 2280.3399 \* Concentration + 5.7176  
Correlation coefficient: 0.99996

Sb (217.582 nm)  
Intensity = 1591.4492 \* Concentration - 1.4927  
Correlation coefficient: 1.00000

Se (196.026 nm)  
Intensity = 951.3429 \* Concentration - 1.8886  
Correlation coefficient: 1.00000

Sn (189.925 nm)  
Intensity = 1232.0158 \* Concentration + 1.0578  
Correlation coefficient: 0.99993

Ti (336.122 nm)  
Intensity = 22464.8785 \* Concentration - 520.4155  
Correlation coefficient: 0.99998

Tl (351.923 nm)  
Intensity = 2997.2723 \* Concentration + 18.1585  
Correlation coefficient: 0.99999

V (292.401 nm)  
Intensity = 38247.0778 \* Concentration + 98.2242  
Correlation coefficient: 0.99998

Zn (213.857 nm)  
Intensity = 30210.6435 \* Concentration - 31.0907  
Correlation coefficient: 0.99999

Al (394.401 nm)  
Intensity = 14467.0943 \* Concentration + 66.4100  
Correlation coefficient: 0.99993

Ca (227.547 nm)  
Intensity = 69.8958 \* Concentration + 7.4647  
Correlation coefficient: 0.99997

Fe (234.350 nm)  
Intensity = 11252.8545 \* Concentration + 19.1434  
Correlation coefficient: 0.99993

Mg (279.078 nm)  
Intensity = 2065.0147 \* Concentration - 4.3446  
Correlation coefficient: 0.99999

Sr (216.596 nm)  
Intensity = 13849.1064 \* Concentration - 4.4933  
Correlation coefficient: 0.99994

# Preparation Information Benchsheet

Prep Run#: 308693  
 Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
 Prep Method: EPA 3050B

Status: Prepped  
 Prep Date/Time: 2/21/18 02:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801562-01	MB		1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	White-Coarse/Colorless-Clear		HB: 1 Well: D3 Temperature: 90.5C/93.5C Correction Factor: 0.0C Corr. Temp: 90.5C/93.5C
2	RQ1801562-02	LCS		1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	White-Coarse/Colorless-Clear	0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185996; 1.0000 mL/185995; 0.1000 mL/180701	Digest on HB 10:44 Digest off HB: 13:15
3	R1801453-001	TP-01 (3.0-4.0)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
4	R1801453-002	TP-02 (4.0)	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Mixed-Medium/Yellow-Clear		
5	R1801453-003	TP-02 (10.0)	.01	1.0500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
6	RQ1801562-03	R1801453-003 MS	.01	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear	0.5000 mL/185685; 0.1000 mL/180701; 0.2000 mL/180703; 1.0000 mL/185996; 1.0000 mL/185995	
7	RQ1801562-04	R1801453-003 DMS	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear	0.2000 mL/180703; 0.5000 mL/185685; 0.1000 mL/180701; 1.0000 mL/185995; 1.0000 mL/185996	
8	R1801453-005	TP-05 (6.0)	.01	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
9	R1801453-006	TP-06 (5.5)	.01	1.0500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
10	R1801453-007	TP-06 (9.0)	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
11	R1801453-008	TP-07 (4.0)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
12	R1801453-009	TP-08 (5.5)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Fine/Yellow-Clear		
13	R1801453-010	TP-09 (7.0)	.01	1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
14	R1801453-011	TP-10 (5.0)	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
15	R1801453-012	TP-12 (5.0)	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
16	R1801453-013	TP-13 (1.0-2.0)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Mixed-Medium/Yellow-Clear		
17	R1801453-014	TP-13 (7.0)	.01	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
18	R1801453-015	TP-14 (3.5)	.01	1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Black-Fine/Yellow-Clear		
19	R1801453-016	TP-17 (4.0)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		

# Preparation Information Benchsheet

Prep Run#: 308693

Prep Workflow: MetDigSICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3050B

Prep Date/Time: 2/21/18 02:33 PM

20	R1801453-017	TP-19 (3.0-4.0)	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Medium/Yellow-Clear		
21	R1801453-018	TP-20 (9.0)	.01	1.0500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Mixed-Fine/Yellow-Clear		
22	R1801453-019	TP-22 (4.0-5.0)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Medium/Yellow-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	1007025
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	1007025

### Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	1:1 Nitric Acid Metals Grade	M7600003T (185923)	Hot Block Cups	50 mL Lot 1707186 (185261)
Hydrogen Peroxide 30% Reagent Grade H2O2	M7600002D (183458)	Nitric Acid Metals Grade HNO3	M7600003T (185922)	Thermometer	293 (12952)

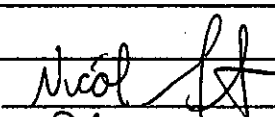
### Preparation Steps

Step: Digestion  
 Started: 2/21/18 14:33  
 Finished: 2/22/18 17:51  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By:		Date:	2/22/18	Extracts Examined Yes No
Received By:	RAOI	Date:	2/22/18	

# Preparation Information Benchsheet

Prep Run#: 308694  
 Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
 Prep Method: EPA 3050B

Status: Prepped  
 Prep Date/Time: 2/21/18 02:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801566-01	MB		1.0g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	White-Coarse/Colorless-Clear		HB: 1 Well: D3 Temperature: 90.5C/93.5C Correction Factor: 0.0C Corr. Temp: 90.5C/93.5C
2	RQ1801566-02	LCS		1.0g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	White-Coarse/Colorless-Clear	1.0000 mL/185995; 0.1000 mL/180701; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185996	Digest on HB: 10:44 Digest off HB: 13:15
3	R1801417-004	GEN-SLUDGE-B39-18-1	.01	1.0100g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
4	RQ1801566-03	R1801417-004 MS	.01	1.0200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear	0.1000 mL/180701; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185996; 1.0000 mL/185995	
5	RQ1801566-04	R1801417-004 DMS	.01	1.0300g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear	0.5000 mL/185685; 0.1000 mL/180701; 0.2000 mL/180703; 1.0000 mL/185996; 1.0000 mL/185995	
6	R1801417-006	GEN-SOIL-B19-18-1	.01	1.0500g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
7	R1801417-008	GEN-SOIL-B7-18-1	.01	1.0100g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
8	R1801417-010	GEN-SOIL-B7-18-3	.01	1.0400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
9	R1801417-013	GEN-SOIL-B39-18-1	.01	1.0200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
10	R1801417-014	GEN-SOIL-B39-18-2	.01	1.0100g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		

# Preparation Information Benchsheet

Prep Run#: 308694

Prep WorkFlow: MetDigSICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3050B

Prep Date/Time: 2/21/18 02:33 PM

11	R1801417-015	GEN-SOIL-B39-18-3	.01	1.0200g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
12	R1801451-002	TB-13 (2-3)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
13	R1801451-007	TB-16 (4-5)	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
14	R1801486-001	SB-1 0-4 ft	.02	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
15	R1801486-002	SB-7 0-4 ft	.02	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
16	R1801486-003	SB-8 4-6 ft	.02	1.0100g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 1007025
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 1007025

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996)	1:1 Nitric Acid Metals Grade M7600003T (185923)	Hot Block Cups	50 mL Lot 1707186 (185261)
Hydrogen Peroxide 30% Reagent Grade H2O2 M7600002D (183458)	Nitric Acid Metals Grade HNO3 M7600003T (185922)	Thermometer	293 (12952)

### Preparation Steps

Step: Digestion  
 Started: 2/21/18 14:33  
 Finished: 2/22/18 17:52  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 308694  
Team: Metals/NMANSEN

Prep WorkFlow: MetDigSICP  
Prep Method: EPA 3050B

Status: Prepped  
Prep Date/Time: 2/21/18 02:33 PM

## Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>2/22/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAOY</u>	Date: <u>2/22/18</u>	



# Preparation Information Benchsheet

Prep Run#: 308802  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 2/22/18 06:02 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801645-01	MB		50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 7 Well: D3 Temperature: 93.0C Corr. Factor: 0.0C Corr. Temp: 93.0C  Plunge Filtered
2	RQ1801645-02	LCS		50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/185996; 0.2500 mL/185685; 0.5000 mL/185995	pH Started: 18:16 Digest on HB: 18:43 HB Shutoff: 4:43 2/23/18  Plunge Filtered
3	R1801196-001	SB915-0424-01,02,03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
4	RQ1801645-03	R1801196-001 MS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/185995; 0.5000 mL/185996; 0.0500 mL/180701; 0.2500 mL/185685	
5	RQ1801645-04	R1801196-001 DMS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/185995; 0.5000 mL/185996	
6	R1801196-002	SB915-0424-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
7	R1801196-003	SB915-0424-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
8	R1801196-004	SB915-0424-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
9	R1801196-005	SB915-0424-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	R1801196-006	SB915-0424-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R1801196-007	SB915-0424-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801196-008	SB915-0424-10	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
13	R1801196-009	SB915-0424-11	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801196-010	SB915-0424-12	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
15	R1801196-011	SB915-0425-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R1801196-012	SB915-0425-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
17	R1801196-013	SB915-0425-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1801196-014	SB915-0425-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 308802

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 2/22/18 06:02 PM

19	R1801196-015	SB915-0425-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear	
20	R1801196-016	SB915-0425-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear	
21	R1801196-017	SB915-0425-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear/Yellow-Clear	
22	R1801196-018	SB915-0425-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear/Yellow-Clear	
23	R1801411-001	Raw Leachate	.01	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2		50.00mL	Brown-Cloudy/Tan-Cloudy	Plunge Filtered
24	R1801411-002	Concentrate	.01	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2		50.00mL	Brown-Cloudy/Yellow-Cloudy	Plunge Filtered

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256

### Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	Hot Block Cups	50 mL Lot 1707186 (185261)	Nitric Acid Metals Grade HNO3	M7600003T (185922)
Plunger Filter	185260 (185260)	Thermometer	294 (12954)		

### Preparation Steps

Step: Digestion  
 Started: 2/22/18 18:02  
 Finished: 2/23/18 15:35  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u><i>[Signature]</i></u>	Date: <u>2/23/18</u>	Extracts Examined Yes No
Received By: <u>RAOI</u>	Date: <u>2/23/18</u>	

# Preparation Information Benchsheet

Prep Run#: 308803  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 2/22/18 06:02 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801646-01	MB		50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 7 Well: D3 Temperature: 93.0C Corr. Factor: 0.0C Corr. Temp: 93.0C  Plunge Filtered
2	RQ1801646-02	LCS		50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.2500 mL/185685; 0.5000 mL/185995; 0.5000 mL/185996; 0.1000 mL/180703	pH Started: 18:16 Digest on HB: 18:43 HB Shutoff: 4:43 2/23/18  Plunge Filtered
3	R1801311-018	SB915-0428-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		
4	R1801311-019	SB915-0428-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
5	R1801417-016	GEN-WATER-B7-18-1	.01	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	7			50.00mL	Colorless-Cloudy/Colorless-Cloudy		Plunge Filtered
6	R1801469-001	SB915-0429-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Yellow-Clear/Yellow-Clear		
7	R1801469-002	SB915-0429-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801469-003	SB915-0429-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	R1801469-004	SB915-0429-04,05,06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	RQ1801646-03	R1801469-004 MS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185995; 0.5000 mL/185996	
11	RQ1801646-04	R1801469-004 DMS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185995; 0.5000 mL/185996; 0.0500 mL/180701; 0.1000 mL/180703	
12	R1801469-007	SB915-0429-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801469-008	SB915-0429-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801469-009	SB915-0429-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Yellow-Clear/Yellow-Clear		
15	R1801469-010	SB915-0429-10	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R1801469-011	SB915-0429-11	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R1801469-012	SB915-0430-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear/Yellow-Clear		

# Preparation Information Benchsheet

Prep Run#: 308803

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 2/22/18 06:02 PM

18	R1801469-013	SB915-0430-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
19	R1801469-014	SB915-0430-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
20	R1801469-015	SB915-0430-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
21	R1801469-016	SB915-0430-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
22	R1801482-001	Sed Pond # 3	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
23	R1801482-002	Sed Pond # 3	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
24	R1801485-001	GEN-WATER-B39-18-1	.01	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Tan-Cloudy/Yellow-Cloudy		Plunge Filtered

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256

### Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	Hot Block Cups	50 mL Lot 1707186 (185261)	Nitric Acid Metals Grade HNO3	M7600003T (185922)
Plunger Filter	185260 (185260)	Thermometer	294 (12954)		

### Preparation Steps

Step: Digestion  
 Started: 2/22/18 18:02  
 Finished: 2/23/18 15:39  
 By: NMANSEN

Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 308803  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 2/22/18 06:02 PM

## Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>2/23/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAOI</u>	Date: <u>2/23/18</u>	

Date: 2/21/18

Analyst: NM

Prep Number: <sup>(LCP)</sup> 308693 <sup>(M)</sup> 308695

Sample	ICP (g)	Hg (g)	Sample Description
MS	1.00	0.60	W-Coarse
LCS	1.00	0.60	W-Coarse
R18001453-001	1.02	0.63	Brown-Fine
R1801453-002	1.01	0.62	Mixed-Medium
-003	1.05	0.64	Brown-Fine
-003MS	1.04	0.61	
-003DMS	1.01	0.65	
-005	1.01	0.61	Br-F
-006	1.05	0.62	Br-M
-007	1.03	0.61	Br-F
-008	1.02	0.60	Br-F
-009	1.02	0.62	Br-F
-010	1.00	0.64	Br-M
-011	1.03	0.62	Br-M
-012	1.03	0.63	Br-M
-013	1.02	0.63	Mixed-M
-014	1.04	0.60	Br-M
-015	1.00	0.60	Bk-F
-016	1.02	0.65	Br-M
-017	1.03	0.60	Br-M
-018	1.05	0.65	Mx-F
-019	1.02	0.65	Br-M

W=White  
 Br=Brown  
 Bk=Black  
 T=Tan  
 Mx=Mixed colors

C=Coarse  
 M=Medium  
 F=Fine

NM  
 2/21/18

Date: 2/21/18  
 Prep Number: 308694 + 308696

Analyst: NM

Sample	ICP (g)	Hg (g)	Sample Description
R1801417-004	1.01	0.65	T-M
-004MS	1.02	0.63	↓
-004MSR	1.03	0.65	↓
-006	1.05	0.62	G-F
-008	1.01	0.65	Br-F
-010	1.04	0.62	Br-M
-013	1.02	0.65	Br-M
-014	1.01	0.63	Br-M
↓ -015	1.02	0.62	Br-M
R1801451-002	1.02	0.62	Bk-C
↓ -007	1.02	0.61	Mx-C
R1801486-001	1.04	0.62	Br-M
-002	1.04	0.62	Br-F <small>metallic</small>
-003	1.01	0.60	Br-M F
-004	1.03	0.62	Br-M
-005	1.05	0.63	Br-M
-006	1.01	0.62	Br-M
↓ -007	1.04	0.61	Br-M
MD	1.00	0.60	W-C
LCS	1.00	0.60	W-C

NM  
2/21/18

Color  
 Br = Brown  
 Bk = Black  
 T = Tan  
 Mx = Mixed  
 W = White  
 G = Gray

Grain Size  
 F = Fine  
 M = Medium  
 C = Coarse

*M*  
 2/21/18

OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)  
 (ICV FOR ILM5.3 IS A 1/2 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600003A	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600003B	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600003C	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600002R	100	2.00		0.500
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600002Q	1000	1.00		5.00
	B	M7600003I	1000	0.500		2.50
	MO	M7600003J	1000	0.500		2.50
	TI	M7600003K	1000	0.500		2.50
	SR	M7600002S	1000	0.500		2.50
	P	-	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
NM 1/29/18	A	M7600003T 10%	M7600004D 5%	M34
NM 1/30/18	B	M7600003T 2%	M7600004D 5%	M34
NM 1/31/18	C	M7600003T 10%	M7600004D 5%	M34
NM 2/2/18	D	M7600003T 2%	M7600004D 5%	M34
NM 2/6/18	E	M7600003T 10%	M7600004D 5%	M34
NM 2/6/18	F	M7600003T 2%	M7600004D 5%	M34
NM 2/7/18	G	M7600003T 10%	M7600004D 5%	M34
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	M34
NM 2/12/18	I	M7600003T 2%	M7600004D 5%	M34
NM 2/13/18	J	M7600003T 10%	M7600004D 5%	M34
NM 2/14/18	K	M7600003T 10%	M7600004D 5%	M34
CK 2/15/18	L	M7600003T 2%	M7600004D 5%	M34
CK 2/15/18	M	M7600003T 10%	M7600004D 5%	M34
CK 2/16/18	N	M7600003T 10%	M7600004D 5%	M34
NM 2/18/18	O	M7600003T 2%	M7600004D 5%	M34
NM 2/20/18	P	M7600003T 10%	M7600004D 5%	M34
NM 2/21/18	Q	M7600003T 10%	M7600004D 5%	M34
NM 2/22/18	R	M7600003T 2%	M7600004D 5%	M34
NM 2/23/18	S	M7600003T 10%	M7600004D 5%	M34
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			



**OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)**  
**(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)**  
**(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)**

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M7600004B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	M7600003G	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M7080014Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M7080014AA	10000	1.00		50.0
	NA	M7080014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600003U	1000	2.00		10.0
	B	M7080012Z	1000	1.00		5.00
	MO	M7600002V	1000	1.00		5.00
	TI	M7080013R	1000	1.00		5.00
	SR	M7080014G	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 1/4/18	A	M7600003T 2%	M7600003D 5%	1/11/18	M34
NM 1/4/18	B	M7600003T 10%	M7600003D 5%	1/11/18	M34
NM 1/12/18	C	M7600003T 2%	M7600003D 5%	1/19/18	M34
NM 1/12/18	D	M7600003T 10%	M7600003D 5%	1/19/18	M34
NM 1/23/18	E	M7600003T 2%	M7600003D 5%	1/30/18	M34
NM 1/23/18	F	M7600003T 10%	M7600003D 5%	1/30/18	M34
NM 1/30/18	G	M7600003T 2%	M7600004D 5%	2/6/18	M34
NM 1/30/18	H	M7600003T 10%	M7600004D 5%	2/6/18	M34
NM 2/7/18	I	M7600003T 2%	M7600004D 5%	2/14/18	M34
NM 2/7/18	J	M7600003T 10%	M7600004D 5%	2/14/18	M34
CK 2/15/18	K	M7600003T 2%	M7600004D 5%	2/22/18	M34
CK 2/15/18	L	M7600003T 10%	M7600004D 5%	2/22/18	M34
NM 2/23/18	M	M7600003T 2%	M7600004D 5%	3/2/18	M34
NM 2/23/18	N	M7600003T 10%	M7600004D 5%	3/2/18	M34
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	M7600003F	10000	2.0	2000	10.0	5 % HCl 2% HNO3	NM 11/9/17	A	M7600002W	M7600003D	5/9/18	M35
CS	M7600003E	10000	2.0		10.0		NM 11/27/17	B	M7600002W	M7600003D	5/27/18	M35
							NM 11/28/17	C	M7600002W	M7600003D	5/28/18	M35
							NM 11/30/17	D	M7600003T	M7600003D	5/30/18	M35
							NM 12/8/17	E	M7600003T	M7600003D	6/8/18	M35
							NM 12/15/17	F	M7600003T	M7600003D	6/15/18	M35
							NM 12/28/17	G	M7600003T	M7600003D	6/28/18	M35
							NM 1/15/18	H	M7600003T	M7600003D	7/15/18	M34
							NM 1/29/18	I	M7600003T	M7600004D	7/29/18	M34
							NM 2/13/18	J	M7600003T	M7600004D	8/13/18	M34
							NM 2/20/18	K	M7600003T	M7600004D	8/20/18	M34
								L				
								M				
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. 1 Int.	AL	M7620002D	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	M7080012EE	5000	0.100		BELOW
	K		5000		0.500	
	MG		5000		0.500	
	NA		5000		0.500	
Single Element	BA	M7080014BB	1000	0.020		0.020
	CU	M7600001A	1000	0.010		0.010
	K	M7080014AA	10000	0.150		2.00
	MN	M7080011R	1000	0.010		0.010
	MO	M7600002V	1000	0.025		0.025
	SB	M7600001G	1000	0.010		0.010
	TL	M7600001N	1000	0.010		0.010
	ZN	M7600003V	1000	0.010		0.010
	P	-	1000	0.100		0.100

Analyst/Date	Letter ID	Nitric Acid Lot#/Concentration	Hydrochloric Acid Lot #/Concentration	Expiration Date	Pipet ID
NM 2/12/18	A	M7600003T 2%	M7600004D 5%	2/19/18	M34 M25
NM 2/12/18	B	M7600003T 10%	M7600004D 5%	2/19/18	M34 M25
NM 2/20/18	C	M7600003T 2%	M7600004D 5%	2/27/18	M34 M25
NM 2/20/18	D	M7600003T 10%	M7600004D 5%	2/27/18	M34 M25
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3,4,5,6 CALIBRATION STANDARD #2**  
 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M7600001J	1000	0.100	1000	0.100
	AS	M7080011X	1000	0.010		0.010
	B	M7080012Z	1000	0.200		0.200
	BE	M7080012V (1/10)	100	0.030		0.003
	CA	M7080014Y	10000	0.100		1.00
	CD	M7080010N (1/10)	100	0.050		0.005
	CU	M7600001A	1000	0.020		0.020
	K	M7080014AA	10000	0.200		2.00
	MG	M7600002H	10000	0.100		1.00
	NA	M7080014Z	10000	0.100		1.00
	PB	M7080011S	1000	0.050		0.050
	SB	M7600001G	1000	0.060		0.060
	SE	M7080014F	1000	0.010		0.010
	SN	M7600003U	1000	0.500		0.500

Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 1/12/18	A	M7600003T 2%	M7600003D 5%	1/19/18	M34 M25
NM 1/12/18	B	M7600003T 10%	M7600003D 5%	1/19/18	M34 M25
NM 1/23/18	C	M7600003T 2%	M7600003D 5%	1/30/18	M34 M25
NM 1/23/18	D	M7600003D 10%	M7600003D 5%	1/30/18	M34 M25
NM 1/31/18	E	M7600003T 2%	M7600003D 5%	2/7/18	M34 M25
NM 1/31/18	F	M7600003T 10%	M7600003D 5%	2/7/18	M34 M25
NM 2/8/18	G	M7600003T 2%	M7600004D 5%	2/15/18	M34 M25
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	2/15/18	M34 M25
NM 2/19/18	I	M7600003T 2%	M7600004D 5%	2/26/18	M34 M25
NM 2/19/18	J	M7600003T 10%	M7600004D 5%	2/26/18	M34 M25
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

OPTIMA 3/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	100	2.00
	CR	M7600002L	100	2.00	100	Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	M7600001R	2000	2.00		Below
	BA	M7600001R	2000	2.00	100	40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	M76000003G	100	4.00		4.00
	CD, SE	M76000003G	50	4.00	100	2.00
	PB		50			Below
Single Metals	B	M7080012Z	1000	1.00		10.0
	MO	M7600002V	1000	1.00		10.0
	TI	M7080013R	1000	1.00		10.0
	SR	M7080014G	1000	1.00		10.0
	CA	M70800148Y	10000	2.50		250
	MG	M76000002H	10000	5.00		500
	NA	M7080014Z	10000	1.50		150
	CR	M7080012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M76000002G	10000	4.60		500
	MN	M7080011R	1000	0.700		10.0
	PB	M7080011S	1000	0.800		10.0
	K	M7080014AA	10000	1.50		150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 1/11/18	A	M76000003T 2%	M76000003D 5%	1/25/18	M34
NM 1/11/18	B	M76000003T 10%	M76000003D 5%	1/25/18	M34
NM 1/26/18	C	M76000003T 2%	M76000004D 5%	2/9/18	M34
NM 1/26/18	D	M76000003T 10%	M76000004D 5%	2/9/18	M34
NM 2/12/18	E	M76000003T 2%	M76000004D 5%	2/26/18	M34
NM 2/12/18	F	M76000003T 10%	M76000004D 5%	2/26/18	M34
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

OPTIMA 3/4/5/6 HLCCV3  
 Standard is prepared biweekly or as necessary)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M7080004Y	10000	2.00	100
	CU	M76000001A	1000	0.40	4.00
	FE	M76000001C	10000	0.40	40.0
	K	M7080004AA	10000	1.00	100
	TL	M76000001N	1000	0.30	3.00

Analyst / Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/8/17	A	M76000002W 2%	M76000003D 5%	11/22/17	M35
NM 11/8/17	B	M76000002W 10%	M76000003D 5%	11/22/17	M35
NM 11/22/17	C	M76000002W 2%	M76000003D 5%	12/6/17	M35
NM 11/22/17	D	M76000002W 10%	M76000003D 5%	12/6/17	M35
NM 12/7/17	E	M76000003T 2%	M76000003D 5%	12/21/17	M35
NM 12/7/17	F	M76000003T 10%	M76000003D 5%	12/21/17	M35
NM 12/27/17	G	M76000003T 2%	M76000003D 5%	1/9/18	M35
NM 12/27/17	H	M76000003T 10%	M76000003D 5%	1/10/18	M35
NM 1/11/18	I	M76000003T 2%	M76000003D 5%	1/25/18	M34
NM 1/11/18	J	M76000003T 10%	M76000003D 5%	1/25/18	M34
NM 1/25/18	K	M76000003T 2%	M76000003D 5%	2/9/18	M34
NM 1/26/18	L	M76000003T 10%	M76000003D 5%	2/9/18	M34
NM 2/12/18	M	M76000003T 2%	M76000004D 5%	2/26/18	M34
NM 2/12/18	N	M76000003T 10%	M76000004D 5%	2/26/18	M34
	O				
	P				
	Q				
	R				
	S				

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7080013X	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M7600002L	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M7600001R	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M7600001I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M7080012Z	1000	0.200		0.200
	MO	M7600002V	1000	0.025		0.0250
	SN	M7600002T	1000	0.500		0.500
	TI	M7080013R	1000	0.050		0.0500
	SB	M7600001G	1000	0.060		0.0600
	SR	M7080014G	1000	0.100		0.100
	P		1000	0.100		0.100

Analyst/Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/22/17	A	M7600002W 2%	M7600003D 5%	5/22/18	M25/M35
NM 11/22/17	B	M7600002W 10%	M7600003D 5%	5/22/18	M25/M35
NM 1/29/18	C	M7600002W 10%	M7600003D 5%	7/29/18	M25/M35
	D		4D		
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

NM 1/29/18

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M7600002W 10%	M7600002I 5%	4/13/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

✓ CM 11/30/17



OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M7080013Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/9/17	A	M7600002W 10%	M7600003D 5%	5/9/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
NM 7/29/18	D	M7600003T 2%	M7600004D 5%	7/29/18	Volumetric
NM 7/29/18	E	M7600003T 10%	M7600004D 5%	7/29/18	Volumetric
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

NM 7/29/18

### Sample Dilutions

Analyst: NM

Date 2/23/18

Instrument: ICP6

Analysis 6010C

#### Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/10	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/10	1	9	1/1000	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/10	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000

#### Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581591 Method/Testcode: 6010C/As T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801562-01	Arsenic, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.3	1.0			2/23/18 17:26:23	N	IV
RQ1801562-01	Barium, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.08	2.0			2/23/18 17:26:23	N	IV
RQ1801562-01	Cadmium, Total	MB		Soil	0.00 ppm	1.0 g	0.02 mg/Kg J	1	0.02	0.50			2/23/18 17:26:23	N	IV
RQ1801562-01	Chromium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.10	1.0			2/23/18 17:26:23	N	IV
RQ1801562-01	Lead, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.2	5.0			2/23/18 17:26:23	N	IV
RQ1801562-01	Selenium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.4	1.0			2/23/18 17:26:23	N	IV
RQ1801562-01	Silver, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.07	1.0			2/23/18 17:26:23	N	IV
RQ1801562-02	Arsenic, Total	LCS		Soil	0.04 ppm	1.0 g	3.67 mg/Kg I	1	0.3	1.0	92		2/23/18 17:29:44	N	IV
RQ1801562-02	Barium, Total	LCS		Soil	2.04 ppm	1.0 g	204 mg/Kg I	1	0.08	2.0	102		2/23/18 17:29:44	N	IV
RQ1801562-02	Cadmium, Total	LCS		Soil	0.05 ppm	1.0 g	4.94 mg/Kg I	1	0.02	0.50	99		2/23/18 17:29:44	N	IV
RQ1801562-02	Chromium, Total	LCS		Soil	0.21 ppm	1.0 g	20.6 mg/Kg I	1	0.10	1.0	103		2/23/18 17:29:44	N	IV
RQ1801562-02	Lead, Total	LCS		Soil	0.49 ppm	1.0 g	48.5 mg/Kg I	1	0.2	5.0	97		2/23/18 17:29:44	N	IV
RQ1801562-02	Selenium, Total	LCS		Soil	0.90 ppm	1.0 g	90.1 mg/Kg I	1	0.4	1.0	89		2/23/18 17:29:44	N	IV
RQ1801562-02	Silver, Total	LCS		Soil	0.05 ppm	1.0 g	4.62 mg/Kg I	1	0.07	1.0	92		2/23/18 17:29:44	N	IV
R1801453-001	Arsenic, Total	N/A		Soil	0.05 ppm	1.0200 g	5.4 mg/Kg I	1	0.4	1.2			2/23/18 17:33:05	N	IV
R1801453-001	Barium, Total	N/A		Soil	0.40 ppm	1.0200 g	46.5 mg/Kg I	1	0.09	2.3			2/23/18 17:33:05	N	IV
R1801453-001	Cadmium, Total	N/A		Soil	0.01 ppm	1.0200 g	1.44 mg/Kg I	1	0.02	0.58			2/23/18 17:33:05	N	IV
R1801453-001	Chromium, Total	N/A		Soil	0.09 ppm	1.0200 g	10.7 mg/Kg I	1	0.2	1.2			2/23/18 17:33:05	N	IV
R1801453-001	Lead, Total	N/A		Soil	1.22 ppm	1.0200 g	140 mg/Kg I	1	0.3	5.8			2/23/18 17:33:05	N	IV
R1801453-001	Selenium, Total	N/A		Soil	0.01 ppm	1.0200 g	0.7 mg/Kg J	1	0.5	1.2			2/23/18 17:33:05	N	IV
R1801453-001	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	1.2 mg/Kg U	1	0.08	1.2			2/23/18 17:33:05	N	IV
R1801453-002	Arsenic, Total	N/A		Soil	0.07 ppm	1.0100 g	8.6 mg/Kg I	1	0.4	1.3			2/23/18 17:36:28	N	IV
R1801453-002	Barium, Total	N/A		Soil	0.40 ppm	1.0100 g	51.7 mg/Kg I	1	0.10	2.6			2/23/18 17:36:28	N	IV
R1801453-002	Cadmium, Total	N/A		Soil	0.01 ppm	1.0100 g	0.77 mg/Kg I	1	0.03	0.64			2/23/18 17:36:28	N	IV
R1801453-002	Chromium, Total	N/A		Soil	0.08 ppm	1.0100 g	9.8 mg/Kg I	1	0.2	1.3			2/23/18 17:36:28	N	IV
R1801453-002	Lead, Total	N/A		Soil	1.63 ppm	1.0100 g	209 mg/Kg I	1	0.3	6.4			2/23/18 17:36:28	N	IV
R1801453-002	Selenium, Total	N/A		Soil	0.01 ppm	1.0100 g	1.6 mg/Kg I	1	0.5	1.3			2/23/18 17:36:28	N	IV
R1801453-002	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	0.4 mg/Kg J	1	0.09	1.3			2/23/18 17:36:28	N	IV
R1801453-003	Arsenic, Total	N/A		Soil	0.03 ppm	1.0500 g	3.5 mg/Kg I	1	0.4	1.2			2/23/18 17:39:49	N	IV
R1801453-003	Barium, Total	N/A		Soil	0.38 ppm	1.0500 g	44.4 mg/Kg I	1	0.09	2.3			2/23/18 17:39:49	N	IV
R1801453-003	Cadmium, Total	N/A		Soil	0.01 ppm	1.0500 g	0.75 mg/Kg I	1	0.02	0.58			2/23/18 17:39:49	N	IV
R1801453-003	Chromium, Total	N/A		Soil	0.09 ppm	1.0500 g	10.7 mg/Kg I	1	0.2	1.2			2/23/18 17:39:49	N	IV
R1801453-003	Lead, Total	N/A		Soil	0.08 ppm	1.0500 g	9.7 mg/Kg I	1	0.3	5.8			2/23/18 17:39:49	N	IV
R1801453-003	Selenium, Total	N/A		Soil	0.01 ppm	1.0500 g	0.7 mg/Kg J	1	0.5	1.2			2/23/18 17:39:49	N	IV
R1801453-003	Silver, Total	N/A		Soil	0.00 ppm	1.0500 g	1.2 mg/Kg U	1	0.08	1.2			2/23/18 17:39:49	N	IV
RQ1801562-03	Arsenic, Total	MS	R1801453-003	Soil	0.06 ppm	1.0400 g	7.2 mg/Kg I	1	0.4	1.2	80		2/23/18 17:43:10	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581591 Method/Testcode: 6010C/Ba T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801562-03	Barium, Total	MS	R1801453-003	Soil	2.30 ppm	1.0400 g	270 mg/Kg	1	0.09	2.3	96		2/23/18 17:43:10	N	IV
RQ1801562-03	Cadmium, Total	MS	R1801453-003	Soil	0.05 ppm	1.0400 g	6.02 mg/Kg	1	0.02	0.59	90		2/23/18 17:43:10	N	IV
RQ1801562-03	Chromium, Total	MS	R1801453-003	Soil	0.28 ppm	1.0400 g	33.2 mg/Kg	1	0.2	1.2	96		2/23/18 17:43:10	N	IV
RQ1801562-03	Lead, Total	MS	R1801453-003	Soil	0.54 ppm	1.0400 g	62.8 mg/Kg	1	0.3	5.9	90		2/23/18 17:43:10	N	IV
RQ1801562-03	Selenium, Total	MS	R1801453-003	Soil	0.89 ppm	1.0400 g	105 mg/Kg	1	0.5	1.2	88		2/23/18 17:43:10	N	IV
RQ1801562-03	Silver, Total	MS	R1801453-003	Soil	0.05 ppm	1.0400 g	5.5 mg/Kg	1	0.08	1.2	93		2/23/18 17:43:10	N	IV
RQ1801562-04	Arsenic, Total	DMS	R1801453-003	Soil	0.06 ppm	1.0100 g	7.6 mg/Kg	1	0.4	1.2	84	4	2/23/18 17:46:30	N	IV
RQ1801562-04	Barium, Total	DMS	R1801453-003	Soil	2.24 ppm	1.0100 g	271 mg/Kg	1	0.09	2.4	94	<1	2/23/18 17:46:30	N	IV
RQ1801562-04	Cadmium, Total	DMS	R1801453-003	Soil	0.05 ppm	1.0100 g	6.06 mg/Kg	1	0.03	0.60	88	<1	2/23/18 17:46:30	N	IV
RQ1801562-04	Chromium, Total	DMS	R1801453-003	Soil	0.28 ppm	1.0100 g	33.8 mg/Kg	1	0.2	1.2	95	2	2/23/18 17:46:30	N	IV
RQ1801562-04	Lead, Total	DMS	R1801453-003	Soil	0.55 ppm	1.0100 g	66.6 mg/Kg	1	0.3	6.0	94	6	2/23/18 17:46:30	N	IV
RQ1801562-04	Selenium, Total	DMS	R1801453-003	Soil	0.88 ppm	1.0100 g	106 mg/Kg	1	0.5	1.2	86	<1	2/23/18 17:46:30	N	IV
RQ1801562-04	Silver, Total	DMS	R1801453-003	Soil	0.05 ppm	1.0100 g	5.5 mg/Kg	1	0.08	1.2	91	<1	2/23/18 17:46:30	N	IV
R1801453-005	Arsenic, Total	N/A		Soil	0.03 ppm	1.0100 g	3.4 mg/Kg	1	0.4	1.1			2/23/18 17:56:32	N	IV
R1801453-005	Barium, Total	N/A		Soil	0.24 ppm	1.0100 g	25.3 mg/Kg	1	0.08	2.1			2/23/18 17:56:32	N	IV
R1801453-005	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.23 mg/Kg	J	0.02	0.53			2/23/18 17:56:32	N	IV
R1801453-005	Chromium, Total	N/A		Soil	0.05 ppm	1.0100 g	5.7 mg/Kg	1	0.10	1.1			2/23/18 17:56:32	N	IV
R1801453-005	Lead, Total	N/A		Soil	0.06 ppm	1.0100 g	6.8 mg/Kg	1	0.3	5.3			2/23/18 17:56:32	N	IV
R1801453-005	Selenium, Total	N/A		Soil	0.00 ppm	1.0100 g	1.1 mg/Kg	U	0.4	1.1			2/23/18 17:56:32	N	IV
R1801453-005	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	1.1 mg/Kg	U	0.07	1.1			2/23/18 17:56:32	N	IV
R1801453-006	Arsenic, Total	N/A		Soil	0.04 ppm	1.0500 g	4.6 mg/Kg	1	0.4	1.1			2/23/18 18:06:34	N	IV
R1801453-006	Barium, Total	N/A		Soil	0.64 ppm	1.0500 g	72.4 mg/Kg	1	0.09	2.3			2/23/18 18:06:34	N	IV
R1801453-006	Cadmium, Total	N/A		Soil	0.00 ppm	1.0500 g	0.47 mg/Kg	J	0.02	0.56			2/23/18 18:06:34	N	IV
R1801453-006	Chromium, Total	N/A		Soil	0.08 ppm	1.0500 g	9.4 mg/Kg	1	0.2	1.1			2/23/18 18:06:34	N	IV
R1801453-006	Lead, Total	N/A		Soil	0.77 ppm	1.0500 g	86.4 mg/Kg	1	0.3	5.6			2/23/18 18:06:34	N	IV
R1801453-006	Selenium, Total	N/A		Soil	0.00 ppm	1.0500 g	1.1 mg/Kg	U	0.5	1.1			2/23/18 18:06:34	N	IV
R1801453-006	Silver, Total	N/A		Soil	0.00 ppm	1.0500 g	0.1 mg/Kg	J	0.08	1.1			2/23/18 18:06:34	N	IV
R1801453-007	Arsenic, Total	N/A		Soil	0.03 ppm	1.0300 g	4.3 mg/Kg	1	0.4	1.2			2/23/18 18:09:55	N	IV
R1801453-007	Barium, Total	N/A		Soil	0.39 ppm	1.0300 g	48.3 mg/Kg	1	0.09	2.5			2/23/18 18:09:55	N	IV
R1801453-007	Cadmium, Total	N/A		Soil	0.01 ppm	1.0300 g	0.70 mg/Kg	1	0.03	0.61			2/23/18 18:09:55	N	IV
R1801453-007	Chromium, Total	N/A		Soil	0.10 ppm	1.0300 g	12.7 mg/Kg	1	0.2	1.2			2/23/18 18:09:55	N	IV
R1801453-007	Lead, Total	N/A		Soil	0.27 ppm	1.0300 g	32.9 mg/Kg	1	0.3	6.1			2/23/18 18:09:55	N	IV
R1801453-007	Selenium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.6 mg/Kg	J	0.5	1.2			2/23/18 18:09:55	N	IV
R1801453-007	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	1.2 mg/Kg	U	0.09	1.2			2/23/18 18:09:55	N	IV
R1801453-008	Arsenic, Total	N/A		Soil	0.05 ppm	1.0200 g	5.5 mg/Kg	1	0.4	1.2			2/23/18 18:13:16	N	IV
R1801453-008	Barium, Total	N/A		Soil	0.87 ppm	1.0200 g	103 mg/Kg	1	0.09	2.4			2/23/18 18:13:16	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581591 Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801453-008	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.40 mg/Kg J	1	0.02	0.59			2/23/18 18:13:16	N	IV
1801453-008	Chromium, Total	N/A		Soil	0.17 ppm	1.0200 g	19.8 mg/Kg	1	0.2	1.2			2/23/18 18:13:16	N	IV
1801453-008	Lead, Total	N/A		Soil	0.20 ppm	1.0200 g	23.5 mg/Kg	1	0.3	5.9			2/23/18 18:13:16	N	IV
1801453-008	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	1.2 mg/Kg U	1	0.5	1.2			2/23/18 18:13:16	N	IV
1801453-008	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	1.2 mg/Kg U	1	0.08	1.2			2/23/18 18:13:16	N	IV
1801453-009	Arsenic, Total	N/A		Soil	0.04 ppm	1.0200 g	3.9 mg/Kg	1	0.4	1.1			2/23/18 18:16:37	N	IV
1801453-009	Barium, Total	N/A		Soil	0.49 ppm	1.0200 g	53.6 mg/Kg	1	0.09	2.2			2/23/18 18:16:37	N	IV
1801453-009	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.38 mg/Kg J	1	0.02	0.55			2/23/18 18:16:37	N	IV
1801453-009	Chromium, Total	N/A		Soil	0.09 ppm	1.0200 g	9.4 mg/Kg	1	0.2	1.1			2/23/18 18:16:37	N	IV
1801453-009	Lead, Total	N/A		Soil	1.77 ppm	1.0200 g	196 mg/Kg	1	0.3	5.5			2/23/18 18:16:37	N	IV
1801453-009	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	1.1 mg/Kg U	1	0.5	1.1			2/23/18 18:16:37	N	IV
1801453-009	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.1 mg/Kg J	1	0.08	1.1			2/23/18 18:16:37	N	IV
1801453-010	Arsenic, Total	N/A		Soil	0.04 ppm	1.0 g	4.1 mg/Kg	1	0.4	1.2			2/23/18 18:19:59	N	IV
1801453-010	Barium, Total	N/A		Soil	1.34 ppm	1.0 g	156 mg/Kg	1	0.09	2.3			2/23/18 18:19:59	N	IV
1801453-010	Cadmium, Total	N/A		Soil	0.00 ppm	1.0 g	0.44 mg/Kg J	1	0.02	0.58			2/23/18 18:19:59	N	IV
1801453-010	Chromium, Total	N/A		Soil	0.08 ppm	1.0 g	9.0 mg/Kg	1	0.2	1.2			2/23/18 18:19:59	N	IV
1801453-010	Lead, Total	N/A		Soil	0.80 ppm	1.0 g	93.1 mg/Kg	1	0.3	5.8			2/23/18 18:19:59	N	IV
1801453-010	Selenium, Total	N/A		Soil	0.00 ppm	1.0 g	1.2 mg/Kg U	1	0.5	1.2			2/23/18 18:19:59	N	IV
1801453-010	Silver, Total	N/A		Soil	0.00 ppm	1.0 g	0.1 mg/Kg J	1	0.08	1.2			2/23/18 18:19:59	N	IV
1801453-011	Arsenic, Total	N/A		Soil	0.09 ppm	1.0300 g	10.7 mg/Kg	1	0.4	1.2			2/23/18 18:23:21	N	IV
1801453-011	Barium, Total	N/A		Soil	2.35 ppm	1.0300 g	274 mg/Kg	1	0.09	2.3			2/23/18 18:23:21	N	IV
1801453-011	Cadmium, Total	N/A		Soil	0.01 ppm	1.0300 g	0.72 mg/Kg	1	0.02	0.58			2/23/18 18:23:21	N	IV
1801453-011	Chromium, Total	N/A		Soil	0.08 ppm	1.0300 g	9.8 mg/Kg	1	0.2	1.2			2/23/18 18:23:21	N	IV
1801453-011	Lead, Total	N/A		Soil	4.76 ppm	1.0300 g	554 mg/Kg	1	0.3	5.8			2/23/18 18:23:21	N	IV
1801453-011	Selenium, Total	N/A		Soil	0.00 ppm	1.0300 g	1.2 mg/Kg U	1	0.5	1.2			2/23/18 18:23:21	N	IV
1801453-011	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	0.2 mg/Kg J	1	0.08	1.2			2/23/18 18:23:21	N	IV
1801453-012	Arsenic, Total	N/A		Soil	0.05 ppm	1.0300 g	6.5 mg/Kg	1	0.4	1.2			2/23/18 18:26:42	N	IV
1801453-012	Barium, Total	N/A		Soil	0.48 ppm	1.0300 g	58.0 mg/Kg	1	0.09	2.4			2/23/18 18:26:42	N	IV
1801453-012	Cadmium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.40 mg/Kg J	1	0.03	0.60			2/23/18 18:26:42	N	IV
1801453-012	Chromium, Total	N/A		Soil	0.09 ppm	1.0300 g	10.8 mg/Kg	1	0.2	1.2			2/23/18 18:26:42	N	IV
1801453-012	Lead, Total	N/A		Soil	0.55 ppm	1.0300 g	66.3 mg/Kg	1	0.3	6.0			2/23/18 18:26:42	N	IV
1801453-012	Selenium, Total	N/A		Soil	0.00 ppm	1.0300 g	1.2 mg/Kg U	1	0.5	1.2			2/23/18 18:26:42	N	IV
1801453-012	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	0.4 mg/Kg J	1	0.08	1.2			2/23/18 18:26:42	N	IV
1801453-013	Arsenic, Total	N/A		Soil	0.22 ppm	1.0200 g	31.4 mg/Kg	1	0.5	1.4			2/23/18 18:30:03	N	IV
1801453-013	Barium, Total	N/A		Soil	0.43 ppm	1.0200 g	61.7 mg/Kg	1	0.2	2.8			2/23/18 18:30:03	N	IV
1801453-013	Cadmium, Total	N/A		Soil	0.05 ppm	1.0200 g	7.48 mg/Kg	1	0.03	0.71			2/23/18 18:30:03	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581591 Method/Testcode: 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801453-013	Chromium, Total	N/A		Soil	0.71 ppm	1.0200 g	101 mg/Kg	1	0.2	1.4			2/23/18 18:30:03	N	IV
1801453-013	Lead, Total	N/A		Soil	1.87 ppm	1.0200 g	267 mg/Kg	1	0.3	7.1			2/23/18 18:30:03	N	IV
1801453-013	Selenium, Total	N/A		Soil	0.02 ppm	1.0200 g	2.7 mg/Kg	1	0.6	1.4			2/23/18 18:30:03	N	IV
1801453-013	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.2 mg/Kg	J 1	0.10	1.4			2/23/18 18:30:03	N	IV
1801453-014	Arsenic, Total	N/A		Soil	0.02 ppm	1.0400 g	2.5 mg/Kg	1	0.4	1.1			2/23/18 18:33:23	N	IV
1801453-014	Barium, Total	N/A		Soil	0.26 ppm	1.0400 g	28.3 mg/Kg	1	0.09	2.2			2/23/18 18:33:23	N	IV
1801453-014	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.24 mg/Kg	J 1	0.02	0.55			2/23/18 18:33:23	N	IV
1801453-014	Chromium, Total	N/A		Soil	0.06 ppm	1.0400 g	6.6 mg/Kg	1	0.2	1.1			2/23/18 18:33:23	N	IV
1801453-014	Lead, Total	N/A		Soil	0.04 ppm	1.0400 g	4.6 mg/Kg	J 1	0.3	5.5			2/23/18 18:33:23	N	IV
1801453-014	Selenium, Total	N/A		Soil	0.00 ppm	1.0400 g	1.1 mg/Kg	U 1	0.5	1.1			2/23/18 18:33:23	N	IV
1801453-014	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	1.1 mg/Kg	U 1	0.08	1.1			2/23/18 18:33:23	N	IV
1801453-015	Arsenic, Total	N/A		Soil	0.06 ppm	1.0 g	7.5 mg/Kg	1	0.4	1.3			2/23/18 18:36:44	N	IV
1801453-015	Barium, Total	N/A		Soil	1.04 ppm	1.0 g	136 mg/Kg	1	0.10	2.6			2/23/18 18:36:44	N	IV
1801453-015	Cadmium, Total	N/A		Soil	0.01 ppm	1.0 g	0.93 mg/Kg	1	0.03	0.65			2/23/18 18:36:44	N	IV
1801453-015	Chromium, Total	N/A		Soil	0.16 ppm	1.0 g	21.1 mg/Kg	1	0.2	1.3			2/23/18 18:36:44	N	IV
1801453-015	Lead, Total	N/A		Soil	4.99 ppm	1.0 g	651 mg/Kg	1	0.3	6.5			2/23/18 18:36:44	N	IV
1801453-015	Selenium, Total	N/A		Soil	0.01 ppm	1.0 g	1.3 mg/Kg	J 1	0.5	1.3			2/23/18 18:36:44	N	IV
1801453-015	Silver, Total	N/A		Soil	0.00 ppm	1.0 g	0.4 mg/Kg	J 1	0.09	1.3			2/23/18 18:36:44	N	IV
1801453-016	Arsenic, Total	N/A		Soil	0.06 ppm	1.0200 g	6.2 mg/Kg	1	0.4	1.1			2/23/18 18:46:46	N	IV
1801453-016	Barium, Total	N/A		Soil	0.52 ppm	1.0200 g	58.2 mg/Kg	1	0.09	2.3			2/23/18 18:46:46	N	IV
1801453-016	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.43 mg/Kg	J 1	0.02	0.56			2/23/18 18:46:46	N	IV
1801453-016	Chromium, Total	N/A		Soil	0.09 ppm	1.0200 g	9.8 mg/Kg	1	0.2	1.1			2/23/18 18:46:46	N	IV
1801453-016	Lead, Total	N/A		Soil	0.76 ppm	1.0200 g	85.8 mg/Kg	1	0.3	5.6			2/23/18 18:46:46	N	IV
1801453-016	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	1.1 mg/Kg	U 1	0.5	1.1			2/23/18 18:46:46	N	IV
1801453-016	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.2 mg/Kg	J 1	0.08	1.1			2/23/18 18:46:46	N	IV
1801453-017	Arsenic, Total	N/A		Soil	0.05 ppm	1.0300 g	5.1 mg/Kg	1	0.4	1.1			2/23/18 18:50:06	N	IV
1801453-017	Barium, Total	N/A		Soil	0.54 ppm	1.0300 g	60.7 mg/Kg	1	0.09	2.3			2/23/18 18:50:06	N	IV
1801453-017	Cadmium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.34 mg/Kg	J 1	0.02	0.57			2/23/18 18:50:06	N	IV
1801453-017	Chromium, Total	N/A		Soil	0.08 ppm	1.0300 g	9.4 mg/Kg	1	0.2	1.1			2/23/18 18:50:06	N	IV
1801453-017	Lead, Total	N/A		Soil	0.60 ppm	1.0300 g	67.4 mg/Kg	1	0.3	5.7			2/23/18 18:50:06	N	IV
1801453-017	Selenium, Total	N/A		Soil	0.00 ppm	1.0300 g	1.1 mg/Kg	U 1	0.5	1.1			2/23/18 18:50:06	N	IV
1801453-017	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	1.1 mg/Kg	U 1	0.08	1.1			2/23/18 18:50:06	N	IV
1801453-018	Arsenic, Total	N/A		Soil	0.07 ppm	1.0500 g	9.1 mg/Kg	1	0.4	1.3			2/23/18 18:53:27	N	IV
1801453-018	Barium, Total	N/A		Soil	0.52 ppm	1.0500 g	68.5 mg/Kg	1	0.10	2.6			2/23/18 18:53:27	N	IV
1801453-018	Cadmium, Total	N/A		Soil	0.01 ppm	1.0500 g	1.04 mg/Kg	1	0.03	0.66			2/23/18 18:53:27	N	IV
1801453-018	Chromium, Total	N/A		Soil	0.09 ppm	1.0500 g	12.2 mg/Kg	1	0.2	1.3			2/23/18 18:53:27	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581591 Method/Testcode: 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801453-018	Lead, Total	N/A		Soil	4.26 ppm	1.0500 g	563 mg/Kg	1	0.3	6.6			2/23/18 18:53:27	N	IV
21801453-018	Selenium, Total	N/A		Soil	0.01 ppm	1.0500 g	1.0 mg/Kg	J 1	0.5	1.3			2/23/18 18:53:27	N	IV
21801453-018	Silver, Total	N/A		Soil	0.00 ppm	1.0500 g	0.2 mg/Kg	J 1	0.09	1.3			2/23/18 18:53:27	N	IV
21801453-019	Arsenic, Total	N/A		Soil	0.08 ppm	1.0200 g	9.8 mg/Kg	1	0.4	1.2			2/23/18 18:56:48	N	IV
21801453-019	Barium, Total	N/A		Soil	0.76 ppm	1.0200 g	91.4 mg/Kg	1	0.09	2.4			2/23/18 18:56:48	N	IV
21801453-019	Cadmium, Total	N/A		Soil	0.01 ppm	1.0200 g	0.71 mg/Kg	1	0.03	0.60			2/23/18 18:56:48	N	IV
21801453-019	Chromium, Total	N/A		Soil	0.11 ppm	1.0200 g	12.7 mg/Kg	1	0.2	1.2			2/23/18 18:56:48	N	IV
21801453-019	Lead, Total	N/A		Soil	1.57 ppm	1.0200 g	190 mg/Kg	1	0.3	6.0			2/23/18 18:56:48	N	IV
21801453-019	Selenium, Total	N/A		Soil	0.01 ppm	1.0200 g	0.8 mg/Kg	J 1	0.5	1.2			2/23/18 18:56:48	N	IV
21801453-019	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.1 mg/Kg	J 1	0.08	1.2			2/23/18 18:56:48	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/AIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801566-01	Aluminum, Total	MB		Soil	0.01 ppm	1.0 g	10 mg/Kg U	1	9	10			2/23/18 19:33:39	N	II
2Q1801566-01	Antimony, Total	MB		Soil	0.00 ppm	1.0 g	6.0 mg/Kg U	1	1.0	6.0			2/23/18 19:33:39	N	II
2Q1801566-01	Arsenic, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.3	1.0			2/23/18 19:33:39	N	II
2Q1801566-01	Barium, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.08	2.0			2/23/18 19:33:39	N	II
2Q1801566-01	Beryllium, Total	MB		Soil	0.00 ppm	1.0 g	0.30 mg/Kg U	1	0.04	0.30			2/23/18 19:33:39	N	II
2Q1801566-01	Cadmium, Total	MB		Soil	0.00 ppm	1.0 g	0.02 mg/Kg J	1	0.02	0.50			2/23/18 19:33:39	N	II
2Q1801566-01	Calcium, Total	MB		Soil	0.14 ppm	1.0 g	10 mg/Kg J	1	6	100			2/23/18 19:33:39	N	II
2Q1801566-01	Chromium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.10	1.0			2/23/18 19:33:39	N	II
2Q1801566-01	Cobalt, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.4	5.0			2/23/18 19:33:39	N	II
2Q1801566-01	Copper, Total	MB		Soil	0.01 ppm	1.0 g	0.7 mg/Kg J	1	0.5	2.0			2/23/18 19:33:39	N	II
2Q1801566-01	Iron, Total	MB		Soil	0.03 ppm	1.0 g	12 mg/Kg U	1	11	12			2/23/18 19:33:39	N	II
2Q1801566-01	Lead, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.2	5.0			2/23/18 19:33:39	N	II
2Q1801566-01	Magnesium, Total	MB		Soil	0.03 ppm	1.0 g	100 mg/Kg U	1	20	100			2/23/18 19:33:39	N	II
2Q1801566-01	Manganese, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	1.0	2.0			2/23/18 19:33:39	N	II
2Q1801566-01	Nickel, Total	MB		Soil	0.00 ppm	1.0 g	4.0 mg/Kg U	1	0.7	4.0			2/23/18 19:33:39	N	II
2Q1801566-01	Potassium, Total	MB		Soil	0.04 ppm	1.0 g	200 mg/Kg U	1	20	200			2/23/18 19:33:39	N	II
2Q1801566-01	Selenium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.4	1.0			2/23/18 19:33:39	N	II
2Q1801566-01	Silver, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.07	1.0			2/23/18 19:33:39	N	II
2Q1801566-01	Sodium, Total	MB		Soil	0.16 ppm	1.0 g	100 mg/Kg U	1	70	100			2/23/18 19:33:39	N	II
2Q1801566-01	Thallium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.6	1.0			2/23/18 19:33:39	N	II
2Q1801566-01	Vanadium, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.7	5.0			2/23/18 19:33:39	N	II
2Q1801566-01	Zinc, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.4	2.0			2/23/18 19:33:39	N	II
2Q1801566-02	Aluminum, Total	LCS		Soil	1.77 ppm	1.0 g	177 mg/Kg	1	9	10	88		2/23/18 19:37:00	N	II
2Q1801566-02	Antimony, Total	LCS		Soil	0.44 ppm	1.0 g	43.9 mg/Kg	1	1.0	6.0	88		2/23/18 19:37:00	N	II
2Q1801566-02	Arsenic, Total	LCS		Soil	0.04 ppm	1.0 g	3.86 mg/Kg	1	0.3	1.0	97		2/23/18 19:37:00	N	II
2Q1801566-02	Barium, Total	LCS		Soil	2.05 ppm	1.0 g	205 mg/Kg	1	0.08	2.0	102		2/23/18 19:37:00	N	II
2Q1801566-02	Beryllium, Total	LCS		Soil	0.05 ppm	1.0 g	4.82 mg/Kg	1	0.04	0.30	96		2/23/18 19:37:00	N	II
2Q1801566-02	Cadmium, Total	LCS		Soil	0.05 ppm	1.0 g	4.96 mg/Kg	1	0.02	0.50	99		2/23/18 19:37:00	N	II
2Q1801566-02	Calcium, Total	LCS		Soil	1.86 ppm	1.0 g	186 mg/Kg	1	6	100	93		2/23/18 19:37:00	N	II
2Q1801566-02	Chromium, Total	LCS		Soil	0.21 ppm	1.0 g	20.8 mg/Kg	1	0.10	1.0	104		2/23/18 19:37:00	N	II
2Q1801566-02	Cobalt, Total	LCS		Soil	0.50 ppm	1.0 g	50.0 mg/Kg	1	0.4	5.0	100		2/23/18 19:37:00	N	II
2Q1801566-02	Copper, Total	LCS		Soil	0.24 ppm	1.0 g	24.1 mg/Kg	1	0.5	2.0	96		2/23/18 19:37:00	N	II
2Q1801566-02	Iron, Total	LCS		Soil	1.02 ppm	1.0 g	102 mg/Kg	1	11	12	102		2/23/18 19:37:00	N	II
2Q1801566-02	Lead, Total	LCS		Soil	0.49 ppm	1.0 g	48.8 mg/Kg	1	0.2	5.0	98		2/23/18 19:37:00	N	II
2Q1801566-02	Magnesium, Total	LCS		Soil	1.90 ppm	1.0 g	190 mg/Kg	1	20	100	95		2/23/18 19:37:00	N	II
2Q1801566-02	Manganese, Total	LCS		Soil	0.50 ppm	1.0 g	50.4 mg/Kg	1	1.0	2.0	101		2/23/18 19:37:00	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592

Method/Testcode: 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801566-02	Nickel, Total	LCS		Soil	0.49 ppm	1.0 g	48.8 mg/Kg	1	0.7	4.0	98		2/23/18 19:37:00	N	II
RQ1801566-02	Potassium, Total	LCS		Soil	18.27 ppm	1.0 g	1830 mg/Kg	1	20	200	91		2/23/18 19:37:00	N	II
RQ1801566-02	Selenium, Total	LCS		Soil	0.90 ppm	1.0 g	90.3 mg/Kg	1	0.4	1.0	89		2/23/18 19:37:00	N	II
RQ1801566-02	Silver, Total	LCS		Soil	0.05 ppm	1.0 g	4.69 mg/Kg	1	0.07	1.0	94		2/23/18 19:37:00	N	II
RQ1801566-02	Sodium, Total	LCS		Soil	19.25 ppm	1.0 g	1920 mg/Kg	1	70	100	96		2/23/18 19:37:00	N	II
RQ1801566-02	Thallium, Total	LCS		Soil	1.77 ppm	1.0 g	177 mg/Kg	1	0.6	1.0	88		2/23/18 19:37:00	N	II
RQ1801566-02	Vanadium, Total	LCS		Soil	0.49 ppm	1.0 g	49.2 mg/Kg	1	0.7	5.0	98		2/23/18 19:37:00	N	II
RQ1801566-02	Zinc, Total	LCS		Soil	0.46 ppm	1.0 g	46.4 mg/Kg	1	0.4	2.0	93		2/23/18 19:37:00	N	II
R1801417-004	Aluminum, Total	N/A		Soil	0.29 ppm	1.0100 g	28.7 mg/Kg #	1	9.0	9.9			2/23/18 19:40:21	N	II
R1801417-004	Antimony, Total	N/A		Soil	0.00 ppm	1.0100 g	5.9 mg/Kg # U	1	1.0	5.9			2/23/18 19:40:21	N	II
R1801417-004	Arsenic, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.29	0.99			2/23/18 19:40:21	N	II
R1801417-004	Barium, Total	N/A		Soil	0.01 ppm	1.0100 g	2.0 mg/Kg # U	1	0.08	2.0			2/23/18 19:40:21	N	II
R1801417-004	Beryllium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.30 mg/Kg # U	1	0.04	0.30			2/23/18 19:40:21	N	II
R1801417-004	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.50 mg/Kg # U	1	0.02	0.50			2/23/18 19:40:21	N	II
R1801417-004	Calcium, Total	N/A		Soil	6.56 ppm	1.0100 g	650 mg/Kg #	1	6	99			2/23/18 19:40:21	N	II
R1801417-004	Chromium, Total	N/A		Soil	0.04 ppm	1.0100 g	4.35 mg/Kg #	1	0.10	0.99			2/23/18 19:40:21	N	II
R1801417-004	Cobalt, Total	N/A		Soil	0.00 ppm	1.0100 g	5.0 mg/Kg # U	1	0.4	5.0			2/23/18 19:40:21	N	II
R1801417-004	Copper, Total	N/A		Soil	0.10 ppm	1.0100 g	9.6 mg/Kg #	1	0.5	2.0			2/23/18 19:40:21	N	II
R1801417-004	Iron, Total	N/A		Soil	3.51 ppm	1.0100 g	348 mg/Kg #	1	11	12			2/23/18 19:40:21	N	II
R1801417-004	Lead, Total	N/A		Soil	0.01 ppm	1.0100 g	5.0 mg/Kg # U	1	0.2	5.0			2/23/18 19:40:21	N	II
R1801417-004	Magnesium, Total	N/A		Soil	1.77 ppm	1.0100 g	176 mg/Kg #	1	19	99			2/23/18 19:40:21	N	II
R1801417-004	Manganese, Total	N/A		Soil	0.07 ppm	1.0100 g	7.0 mg/Kg #	1	1.0	2.0			2/23/18 19:40:21	N	II
R1801417-004	Nickel, Total	N/A		Soil	0.02 ppm	1.0100 g	4.0 mg/Kg # U	1	0.7	4.0			2/23/18 19:40:21	N	II
R1801417-004	Potassium, Total	N/A		Soil	4.02 ppm	1.0100 g	400 mg/Kg #	1	20	200			2/23/18 19:40:21	N	II
R1801417-004	Selenium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.38	0.99			2/23/18 19:40:21	N	II
R1801417-004	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.07	0.99			2/23/18 19:40:21	N	II
R1801417-004	Sodium, Total	N/A		Soil	73.78 ppm	1.0100 g	7300 mg/Kg #	1	64	99			2/23/18 19:40:21	N	II
R1801417-004	Thallium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.52	0.99			2/23/18 19:40:21	N	II
R1801417-004	Vanadium, Total	N/A		Soil	0.00 ppm	1.0100 g	5.0 mg/Kg # U	1	0.7	5.0			2/23/18 19:40:21	N	II
R1801417-004	Zinc, Total	N/A		Soil	0.50 ppm	1.0100 g	49.7 mg/Kg #	1	0.4	2.0			2/23/18 19:40:21	N	II
RQ1801566-03	Aluminum, Total	MS	R1801417-004	Soil	2.16 ppm	1.0200 g	212 mg/Kg #	1	9.0	9.8	93		2/23/18 19:43:42	N	II
RQ1801566-03	Antimony, Total	MS	R1801417-004	Soil	0.43 ppm	1.0200 g	42.4 mg/Kg #	1	1.0	5.9	87		2/23/18 19:43:42	N	II
RQ1801566-03	Arsenic, Total	MS	R1801417-004	Soil	0.04 ppm	1.0200 g	3.72 mg/Kg #	1	0.29	0.98	95		2/23/18 19:43:42	N	II
RQ1801566-03	Barium, Total	MS	R1801417-004	Soil	2.00 ppm	1.0200 g	196 mg/Kg #	1	0.08	2.0	100		2/23/18 19:43:42	N	II
RQ1801566-03	Beryllium, Total	MS	R1801417-004	Soil	0.05 ppm	1.0200 g	4.64 mg/Kg #	1	0.04	0.29	95		2/23/18 19:43:42	N	II
RQ1801566-03	Cadmium, Total	MS	R1801417-004	Soil	0.05 ppm	1.0200 g	4.71 mg/Kg #	1	0.02	0.49	96		2/23/18 19:43:42	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801566-03	Calcium, Total	MS	R1801417-004	Soil	8.99 ppm	1.0200 g	881 mg/Kg #	1	6	98	118		2/23/18 19:43:42	N	II
2Q1801566-03	Chromium, Total	MS	R1801417-004	Soil	0.25 ppm	1.0200 g	24.1 mg/Kg #	1	0.10	0.98	101		2/23/18 19:43:42	N	II
2Q1801566-03	Cobalt, Total	MS	R1801417-004	Soil	0.49 ppm	1.0200 g	47.8 mg/Kg #	1	0.4	4.9	97		2/23/18 19:43:42	N	II
2Q1801566-03	Copper, Total	MS	R1801417-004	Soil	0.35 ppm	1.0200 g	34.0 mg/Kg #	1	0.5	2.0	100		2/23/18 19:43:42	N	II
2Q1801566-03	Iron, Total	MS	R1801417-004	Soil	4.62 ppm	1.0200 g	453 mg/Kg #	1	11	12	107		2/23/18 19:43:42	N	II
2Q1801566-03	Lead, Total	MS	R1801417-004	Soil	0.48 ppm	1.0200 g	46.9 mg/Kg #	1	0.2	4.9	96		2/23/18 19:43:42	N	II
2Q1801566-03	Magnesium, Total	MS	R1801417-004	Soil	3.67 ppm	1.0200 g	359 mg/Kg #	1	19	98	94		2/23/18 19:43:42	N	II
2Q1801566-03	Manganese, Total	MS	R1801417-004	Soil	0.56 ppm	1.0200 g	55.2 mg/Kg #	1	1.0	2.0	98		2/23/18 19:43:42	N	II
2Q1801566-03	Nickel, Total	MS	R1801417-004	Soil	0.49 ppm	1.0200 g	48.0 mg/Kg #	1	0.7	3.9	98		2/23/18 19:43:42	N	II
2Q1801566-03	Potassium, Total	MS	R1801417-004	Soil	23.29 ppm	1.0200 g	2280 mg/Kg #	1	20	200	96		2/23/18 19:43:42	N	II
2Q1801566-03	Selenium, Total	MS	R1801417-004	Soil	0.91 ppm	1.0200 g	89.5 mg/Kg #	1	0.38	0.98	90		2/23/18 19:43:42	N	II
2Q1801566-03	Silver, Total	MS	R1801417-004	Soil	0.05 ppm	1.0200 g	4.85 mg/Kg #	1	0.07	0.98	99		2/23/18 19:43:42	N	II
2Q1801566-03	Sodium, Total	MS	R1801417-004	Soil	93.95 ppm	1.0200 g	9210 mg/Kg #	1	64	98	97		2/23/18 19:43:42	N	II
2Q1801566-03	Thallium, Total	MS	R1801417-004	Soil	1.79 ppm	1.0200 g	176 mg/Kg #	1	0.52	0.98	90		2/23/18 19:43:42	N	II
2Q1801566-03	Vanadium, Total	MS	R1801417-004	Soil	0.48 ppm	1.0200 g	47.2 mg/Kg #	1	0.7	4.9	96		2/23/18 19:43:42	N	II
2Q1801566-03	Zinc, Total	MS	R1801417-004	Soil	0.98 ppm	1.0200 g	96.3 mg/Kg #	1	0.4	2.0	95		2/23/18 19:43:42	N	II
2Q1801566-04	Aluminum, Total	DMS	R1801417-004	Soil	2.24 ppm	1.0300 g	218 mg/Kg #	1	9.0	9.7	97	3	2/23/18 19:47:03	N	II
2Q1801566-04	Antimony, Total	DMS	R1801417-004	Soil	0.44 ppm	1.0300 g	42.6 mg/Kg #	1	1.0	5.8	88	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Arsenic, Total	DMS	R1801417-004	Soil	0.04 ppm	1.0300 g	3.76 mg/Kg #	1	0.29	0.97	97	1	2/23/18 19:47:03	N	II
2Q1801566-04	Barium, Total	DMS	R1801417-004	Soil	2.02 ppm	1.0300 g	197 mg/Kg #	1	0.08	1.9	101	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Beryllium, Total	DMS	R1801417-004	Soil	0.05 ppm	1.0300 g	4.66 mg/Kg #	1	0.04	0.29	96	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Cadmium, Total	DMS	R1801417-004	Soil	0.05 ppm	1.0300 g	4.74 mg/Kg #	1	0.02	0.49	98	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Calcium, Total	DMS	R1801417-004	Soil	9.89 ppm	1.0300 g	960 mg/Kg #	1	6	97	160*	9	2/23/18 19:47:03	N	II
2Q1801566-04	Chromium, Total	DMS	R1801417-004	Soil	0.26 ppm	1.0300 g	25.0 mg/Kg #	1	0.10	0.97	106	3	2/23/18 19:47:03	N	II
2Q1801566-04	Cobalt, Total	DMS	R1801417-004	Soil	0.49 ppm	1.0300 g	48.0 mg/Kg #	1	0.4	4.9	99	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Copper, Total	DMS	R1801417-004	Soil	0.37 ppm	1.0300 g	35.9 mg/Kg #	1	0.5	1.9	108	5	2/23/18 19:47:03	N	II
2Q1801566-04	Iron, Total	DMS	R1801417-004	Soil	5.07 ppm	1.0300 g	492 mg/Kg #	1	11	12	149*	8	2/23/18 19:47:03	N	II
2Q1801566-04	Lead, Total	DMS	R1801417-004	Soil	0.49 ppm	1.0300 g	47.4 mg/Kg #	1	0.2	4.9	98	1	2/23/18 19:47:03	N	II
2Q1801566-04	Magnesium, Total	DMS	R1801417-004	Soil	3.82 ppm	1.0300 g	371 mg/Kg #	1	19	97	101	3	2/23/18 19:47:03	N	II
2Q1801566-04	Manganese, Total	DMS	R1801417-004	Soil	0.58 ppm	1.0300 g	56.0 mg/Kg #	1	1.0	1.9	101	2	2/23/18 19:47:03	N	II
2Q1801566-04	Nickel, Total	DMS	R1801417-004	Soil	0.50 ppm	1.0300 g	48.3 mg/Kg #	1	0.7	3.9	99	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Potassium, Total	DMS	R1801417-004	Soil	23.72 ppm	1.0300 g	2300 mg/Kg #	1	20	190	98	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Selenium, Total	DMS	R1801417-004	Soil	0.92 ppm	1.0300 g	89.6 mg/Kg #	1	0.38	0.97	91	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Silver, Total	DMS	R1801417-004	Soil	0.05 ppm	1.0300 g	4.92 mg/Kg #	1	0.07	0.97	101	1	2/23/18 19:47:03	N	II
2Q1801566-04	Sodium, Total	DMS	R1801417-004	Soil	95.94 ppm	1.0300 g	9310 mg/Kg #	1	64	97	104	1	2/23/18 19:47:03	N	II
2Q1801566-04	Thallium, Total	DMS	R1801417-004	Soil	1.82 ppm	1.0300 g	176 mg/Kg #	1	0.52	0.97	91	<1	2/23/18 19:47:03	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/V T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801566-04	Vanadium, Total	DMS	R1801417-004	Soil	0.49 ppm	1.0300 g	47.4 mg/Kg #	1	0.7	4.9	98	<1	2/23/18 19:47:03	N	II
2Q1801566-04	Zinc, Total	DMS	R1801417-004	Soil	1.07 ppm	1.0300 g	104 mg/Kg #	1	0.4	1.9	111	7	2/23/18 19:47:03	N	II
21801417-006	Aluminum, Total	N/A		Soil	116.63 ppm	1.0500 g	11100 mg/Kg #	1	9.0	9.5			2/23/18 19:57:05	N	II
21801417-006	Antimony, Total	N/A		Soil	0.00 ppm	1.0500 g	5.7 mg/Kg # U	1	1.0	5.7			2/23/18 19:57:05	N	II
21801417-006	Arsenic, Total	N/A		Soil	0.04 ppm	1.0500 g	4.07 mg/Kg #	1	0.29	0.95			2/23/18 19:57:05	N	II
21801417-006	Barium, Total	N/A		Soil	0.59 ppm	1.0500 g	56.0 mg/Kg #	1	0.08	1.9			2/23/18 19:57:05	N	II
21801417-006	Beryllium, Total	N/A		Soil	0.00 ppm	1.0500 g	0.43 mg/Kg #	1	0.04	0.29			2/23/18 19:57:05	N	II
21801417-006	Cadmium, Total	N/A		Soil	0.00 ppm	1.0500 g	0.48 mg/Kg # U	1	0.02	0.48			2/23/18 19:57:05	N	II
21801417-006	Calcium, Total	N/A		Soil	27.75 ppm	1.0500 g	2640 mg/Kg #	1	6	95			2/23/18 19:57:05	N	II
21801417-006	Chromium, Total	N/A		Soil	0.17 ppm	1.0500 g	15.9 mg/Kg #	1	0.10	0.95			2/23/18 19:57:05	N	II
21801417-006	Cobalt, Total	N/A		Soil	0.07 ppm	1.0500 g	6.5 mg/Kg #	1	0.4	4.8			2/23/18 19:57:05	N	II
21801417-006	Copper, Total	N/A		Soil	0.13 ppm	1.0500 g	12.6 mg/Kg #	1	0.5	1.9			2/23/18 19:57:05	N	II
21801417-006	Lead, Total	N/A		Soil	0.10 ppm	1.0500 g	9.7 mg/Kg #	1	0.2	4.8			2/23/18 19:57:05	N	II
21801417-006	Magnesium, Total	N/A		Soil	42.27 ppm	1.0500 g	4030 mg/Kg #	1	19	95			2/23/18 19:57:05	N	II
21801417-006	Manganese, Total	N/A		Soil	2.83 ppm	1.0500 g	269 mg/Kg #	1	1.0	1.9			2/23/18 19:57:05	N	II
21801417-006	Nickel, Total	N/A		Soil	0.17 ppm	1.0500 g	16.6 mg/Kg #	1	0.7	3.8			2/23/18 19:57:05	N	II
21801417-006	Potassium, Total	N/A		Soil	19.87 ppm	1.0500 g	1890 mg/Kg #	1	20	190			2/23/18 19:57:05	N	II
21801417-006	Selenium, Total	N/A		Soil	0.01 ppm	1.0500 g	0.95 mg/Kg # U	1	0.38	0.95			2/23/18 19:57:05	N	II
21801417-006	Silver, Total	N/A		Soil	0.00 ppm	1.0500 g	0.95 mg/Kg # U	1	0.07	0.95			2/23/18 19:57:05	N	II
21801417-006	Sodium, Total	N/A		Soil	2.05 ppm	1.0500 g	196 mg/Kg #	1	64	95			2/23/18 19:57:05	N	II
21801417-006	Thallium, Total	N/A		Soil	-0.02 ppm	1.0500 g	0.95 mg/Kg # U	1	0.52	0.95			2/23/18 19:57:05	N	II
21801417-006	Vanadium, Total	N/A		Soil	0.21 ppm	1.0500 g	19.6 mg/Kg #	1	0.7	4.8			2/23/18 19:57:05	N	II
21801417-006	Zinc, Total	N/A		Soil	0.52 ppm	1.0500 g	49.2 mg/Kg #	1	0.4	1.9			2/23/18 19:57:05	N	II
21801417-008	Aluminum, Total	N/A		Soil	64.63 ppm	1.0100 g	6400 mg/Kg #	1	9.0	9.9			2/23/18 20:00:26	N	II
21801417-008	Antimony, Total	N/A		Soil	0.00 ppm	1.0100 g	5.9 mg/Kg # U	1	1.0	5.9			2/23/18 20:00:26	N	II
21801417-008	Arsenic, Total	N/A		Soil	0.04 ppm	1.0100 g	4.24 mg/Kg #	1	0.29	0.99			2/23/18 20:00:26	N	II
21801417-008	Barium, Total	N/A		Soil	0.31 ppm	1.0100 g	30.3 mg/Kg #	1	0.08	2.0			2/23/18 20:00:26	N	II
21801417-008	Beryllium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.30 mg/Kg # U	1	0.04	0.30			2/23/18 20:00:26	N	II
21801417-008	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.50 mg/Kg # U	1	0.02	0.50			2/23/18 20:00:26	N	II
21801417-008	Chromium, Total	N/A		Soil	0.10 ppm	1.0100 g	9.59 mg/Kg #	1	0.10	0.99			2/23/18 20:00:26	N	II
21801417-008	Cobalt, Total	N/A		Soil	0.05 ppm	1.0100 g	5.1 mg/Kg #	1	0.4	5.0			2/23/18 20:00:26	N	II
21801417-008	Copper, Total	N/A		Soil	0.14 ppm	1.0100 g	13.8 mg/Kg #	1	0.5	2.0			2/23/18 20:00:26	N	II
21801417-008	Lead, Total	N/A		Soil	0.10 ppm	1.0100 g	9.8 mg/Kg #	1	0.2	5.0			2/23/18 20:00:26	N	II
21801417-008	Magnesium, Total	N/A		Soil	149.37 ppm	1.0100 g	14800 mg/Kg #	1	19	99			2/23/18 20:00:26	N	II
21801417-008	Manganese, Total	N/A		Soil	2.81 ppm	1.0100 g	278 mg/Kg #	1	1.0	2.0			2/23/18 20:00:26	N	II
21801417-008	Nickel, Total	N/A		Soil	0.12 ppm	1.0100 g	11.8 mg/Kg #	1	0.7	4.0			2/23/18 20:00:26	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/K T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801417-008	Potassium, Total	N/A	Soil	Soil	11.63 ppm	1.0100 g	1150 mg/Kg #	1	20	200			2/23/18 20:00:26	N	II
21801417-008	Selenium, Total	N/A	Soil	Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.38	0.99			2/23/18 20:00:26	N	II
21801417-008	Silver, Total	N/A	Soil	Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.07	0.99			2/23/18 20:00:26	N	II
21801417-008	Sodium, Total	N/A	Soil	Soil	1.93 ppm	1.0100 g	192 mg/Kg #	1	64	99			2/23/18 20:00:26	N	II
21801417-008	Thallium, Total	N/A	Soil	Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.52	0.99			2/23/18 20:00:26	N	II
21801417-008	Vanadium, Total	N/A	Soil	Soil	0.12 ppm	1.0100 g	12.3 mg/Kg #	1	0.7	5.0			2/23/18 20:00:26	N	II
21801417-008	Zinc, Total	N/A	Soil	Soil	0.42 ppm	1.0100 g	41.2 mg/Kg #	1	0.4	2.0			2/23/18 20:00:26	N	II
21801417-010	Aluminum, Total	N/A	Soil	Soil	76.19 ppm	1.0400 g	7330 mg/Kg #	1	9.0	9.6			2/23/18 20:03:47	N	II
21801417-010	Antimony, Total	N/A	Soil	Soil	0.00 ppm	1.0400 g	5.8 mg/Kg # U	1	1.0	5.8			2/23/18 20:03:47	N	II
21801417-010	Arsenic, Total	N/A	Soil	Soil	0.05 ppm	1.0400 g	4.56 mg/Kg #	1	0.29	0.96			2/23/18 20:03:47	N	II
21801417-010	Barium, Total	N/A	Soil	Soil	0.39 ppm	1.0400 g	37.6 mg/Kg #	1	0.08	1.9			2/23/18 20:03:47	N	II
21801417-010	Beryllium, Total	N/A	Soil	Soil	0.00 ppm	1.0400 g	0.32 mg/Kg #	1	0.04	0.29			2/23/18 20:03:47	N	II
21801417-010	Cadmium, Total	N/A	Soil	Soil	0.00 ppm	1.0400 g	0.48 mg/Kg # U	1	0.02	0.48			2/23/18 20:03:47	N	II
21801417-010	Chromium, Total	N/A	Soil	Soil	0.11 ppm	1.0400 g	10.6 mg/Kg #	1	0.10	0.96			2/23/18 20:03:47	N	II
21801417-010	Cobalt, Total	N/A	Soil	Soil	0.06 ppm	1.0400 g	5.4 mg/Kg #	1	0.4	4.8			2/23/18 20:03:47	N	II
21801417-010	Copper, Total	N/A	Soil	Soil	0.16 ppm	1.0400 g	15.7 mg/Kg #	1	0.5	1.9			2/23/18 20:03:47	N	II
21801417-010	Lead, Total	N/A	Soil	Soil	0.09 ppm	1.0400 g	8.4 mg/Kg #	1	0.2	4.8			2/23/18 20:03:47	N	II
21801417-010	Magnesium, Total	N/A	Soil	Soil	163.09 ppm	1.0400 g	15700 mg/Kg #	1	19	96			2/23/18 20:03:47	N	II
21801417-010	Manganese, Total	N/A	Soil	Soil	3.33 ppm	1.0400 g	321 mg/Kg #	1	1.0	1.9			2/23/18 20:03:47	N	II
21801417-010	Nickel, Total	N/A	Soil	Soil	0.14 ppm	1.0400 g	13.9 mg/Kg #	1	0.7	3.8			2/23/18 20:03:47	N	II
21801417-010	Potassium, Total	N/A	Soil	Soil	11.53 ppm	1.0400 g	1110 mg/Kg #	1	20	190			2/23/18 20:03:47	N	II
21801417-010	Selenium, Total	N/A	Soil	Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.38	0.96			2/23/18 20:03:47	N	II
21801417-010	Silver, Total	N/A	Soil	Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.07	0.96			2/23/18 20:03:47	N	II
21801417-010	Sodium, Total	N/A	Soil	Soil	1.65 ppm	1.0400 g	159 mg/Kg #	1	64	96			2/23/18 20:03:47	N	II
21801417-010	Thallium, Total	N/A	Soil	Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.52	0.96			2/23/18 20:03:47	N	II
21801417-010	Vanadium, Total	N/A	Soil	Soil	0.14 ppm	1.0400 g	13.4 mg/Kg #	1	0.7	4.8			2/23/18 20:03:47	N	II
21801417-010	Zinc, Total	N/A	Soil	Soil	0.55 ppm	1.0400 g	52.8 mg/Kg #	1	0.4	1.9			2/23/18 20:03:47	N	II
21801417-013	Aluminum, Total	N/A	Soil	Soil	57.32 ppm	1.0200 g	5620 mg/Kg #	1	9.0	9.8			2/23/18 20:13:49	N	II
21801417-013	Antimony, Total	N/A	Soil	Soil	0.00 ppm	1.0200 g	5.9 mg/Kg # U	1	1.0	5.9			2/23/18 20:13:49	N	II
21801417-013	Arsenic, Total	N/A	Soil	Soil	0.03 ppm	1.0200 g	2.55 mg/Kg #	1	0.29	0.98			2/23/18 20:13:49	N	II
21801417-013	Barium, Total	N/A	Soil	Soil	0.31 ppm	1.0200 g	30.6 mg/Kg #	1	0.08	2.0			2/23/18 20:13:49	N	II
21801417-013	Beryllium, Total	N/A	Soil	Soil	0.00 ppm	1.0200 g	0.29 mg/Kg # U	1	0.04	0.29			2/23/18 20:13:49	N	II
21801417-013	Cadmium, Total	N/A	Soil	Soil	0.00 ppm	1.0200 g	0.49 mg/Kg # U	1	0.02	0.49			2/23/18 20:13:49	N	II
21801417-013	Chromium, Total	N/A	Soil	Soil	0.10 ppm	1.0200 g	9.94 mg/Kg #	1	0.10	0.98			2/23/18 20:13:49	N	II
21801417-013	Cobalt, Total	N/A	Soil	Soil	0.04 ppm	1.0200 g	4.9 mg/Kg # U	1	0.4	4.9			2/23/18 20:13:49	N	II
21801417-013	Copper, Total	N/A	Soil	Soil	0.13 ppm	1.0200 g	13.1 mg/Kg #	1	0.5	2.0			2/23/18 20:13:49	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801417-013	Lead, Total	N/A		Soil	0.09 ppm	1.0200 g	8.3 mg/Kg #	1	0.2	4.9			2/23/18 20:13:49	N	II
21801417-013	Magnesium, Total	N/A		Soil	421.25 ppm	1.0200 g	41300 mg/Kg #	1	19	98			2/23/18 20:13:49	N	II
21801417-013	Manganese, Total	N/A		Soil	2.98 ppm	1.0200 g	292 mg/Kg #	1	1.0	2.0			2/23/18 20:13:49	N	II
21801417-013	Nickel, Total	N/A		Soil	0.10 ppm	1.0200 g	9.3 mg/Kg #	1	0.7	3.9			2/23/18 20:13:49	N	II
21801417-013	Potassium, Total	N/A		Soil	12.10 ppm	1.0200 g	1190 mg/Kg #	1	20	200			2/23/18 20:13:49	N	II
21801417-013	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.98 mg/Kg # U	1	0.38	0.98			2/23/18 20:13:49	N	II
21801417-013	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.98 mg/Kg # U	1	0.07	0.98			2/23/18 20:13:49	N	II
21801417-013	Sodium, Total	N/A		Soil	1.76 ppm	1.0200 g	173 mg/Kg #	1	64	98			2/23/18 20:13:49	N	II
21801417-013	Thallium, Total	N/A		Soil	0.03 ppm	1.0200 g	2.47 mg/Kg #	1	0.52	0.98			2/23/18 20:13:49	N	II
21801417-013	Vanadium, Total	N/A		Soil	0.11 ppm	1.0200 g	10.4 mg/Kg #	1	0.7	4.9			2/23/18 20:13:49	N	II
21801417-013	Zinc, Total	N/A		Soil	0.70 ppm	1.0200 g	68.2 mg/Kg #	1	0.4	2.0			2/23/18 20:13:49	N	II
21801417-014	Aluminum, Total	N/A		Soil	42.13 ppm	1.0100 g	4170 mg/Kg #	1	9.0	9.9			2/23/18 20:17:11	N	II
21801417-014	Antimony, Total	N/A		Soil	0.00 ppm	1.0100 g	5.9 mg/Kg # U	1	1.0	5.9			2/23/18 20:17:11	N	II
21801417-014	Arsenic, Total	N/A		Soil	0.03 ppm	1.0100 g	2.51 mg/Kg #	1	0.29	0.99			2/23/18 20:17:11	N	II
21801417-014	Barium, Total	N/A		Soil	0.21 ppm	1.0100 g	20.9 mg/Kg #	1	0.08	2.0			2/23/18 20:17:11	N	II
21801417-014	Beryllium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.30 mg/Kg # U	1	0.04	0.30			2/23/18 20:17:11	N	II
21801417-014	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.50 mg/Kg # U	1	0.02	0.50			2/23/18 20:17:11	N	II
21801417-014	Chromium, Total	N/A		Soil	0.07 ppm	1.0100 g	6.86 mg/Kg #	1	0.10	0.99			2/23/18 20:17:11	N	II
21801417-014	Cobalt, Total	N/A		Soil	0.03 ppm	1.0100 g	5.0 mg/Kg # U	1	0.4	5.0			2/23/18 20:17:11	N	II
21801417-014	Copper, Total	N/A		Soil	0.14 ppm	1.0100 g	14.1 mg/Kg #	1	0.5	2.0			2/23/18 20:17:11	N	II
21801417-014	Lead, Total	N/A		Soil	0.06 ppm	1.0100 g	6.2 mg/Kg #	1	0.2	5.0			2/23/18 20:17:11	N	II
21801417-014	Manganese, Total	N/A		Soil	3.12 ppm	1.0100 g	309 mg/Kg #	1	1.0	2.0			2/23/18 20:17:11	N	II
21801417-014	Nickel, Total	N/A		Soil	0.07 ppm	1.0100 g	7.0 mg/Kg #	1	0.7	4.0			2/23/18 20:17:11	N	II
21801417-014	Potassium, Total	N/A		Soil	10.97 ppm	1.0100 g	1090 mg/Kg #	1	20	200			2/23/18 20:17:11	N	II
21801417-014	Selenium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.38	0.99			2/23/18 20:17:11	N	II
21801417-014	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.07	0.99			2/23/18 20:17:11	N	II
21801417-014	Sodium, Total	N/A		Soil	2.25 ppm	1.0100 g	223 mg/Kg #	1	64	99			2/23/18 20:17:11	N	II
21801417-014	Thallium, Total	N/A		Soil	0.04 ppm	1.0100 g	3.92 mg/Kg #	1	0.52	0.99			2/23/18 20:17:11	N	II
21801417-014	Vanadium, Total	N/A		Soil	0.10 ppm	1.0100 g	9.5 mg/Kg #	1	0.7	5.0			2/23/18 20:17:11	N	II
21801417-014	Zinc, Total	N/A		Soil	0.39 ppm	1.0100 g	39.0 mg/Kg #	1	0.4	2.0			2/23/18 20:17:11	N	II
21801417-015	Aluminum, Total	N/A		Soil	40.86 ppm	1.0200 g	4010 mg/Kg #	1	9.0	9.8			2/23/18 20:20:32	N	II
21801417-015	Antimony, Total	N/A		Soil	0.00 ppm	1.0200 g	5.9 mg/Kg # U	1	1.0	5.9			2/23/18 20:20:32	N	II
21801417-015	Arsenic, Total	N/A		Soil	0.02 ppm	1.0200 g	2.23 mg/Kg #	1	0.29	0.98			2/23/18 20:20:32	N	II
21801417-015	Barium, Total	N/A		Soil	0.18 ppm	1.0200 g	17.5 mg/Kg #	1	0.08	2.0			2/23/18 20:20:32	N	II
21801417-015	Beryllium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.29 mg/Kg # U	1	0.04	0.29			2/23/18 20:20:32	N	II
21801417-015	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.49 mg/Kg # U	1	0.02	0.49			2/23/18 20:20:32	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801417-015	Chromium, Total	N/A		Soil	0.06 ppm	1.0200 g	6.01 mg/Kg #	1	0.10	0.98			2/23/18 20:20:32	N	II
21801417-015	Cobalt, Total	N/A		Soil	0.03 ppm	1.0200 g	4.9 mg/Kg # U	1	0.4	4.9			2/23/18 20:20:32	N	II
21801417-015	Copper, Total	N/A		Soil	0.13 ppm	1.0200 g	13.0 mg/Kg #	1	0.5	2.0			2/23/18 20:20:32	N	II
21801417-015	Lead, Total	N/A		Soil	0.07 ppm	1.0200 g	6.6 mg/Kg #	1	0.2	4.9			2/23/18 20:20:32	N	II
21801417-015	Magnesium, Total	N/A		Soil	480.83 ppm	1.0200 g	47100 mg/Kg #	1	19	98			2/23/18 20:20:32	N	II
21801417-015	Manganese, Total	N/A		Soil	3.31 ppm	1.0200 g	324 mg/Kg #	1	1.0	2.0			2/23/18 20:20:32	N	II
21801417-015	Nickel, Total	N/A		Soil	0.07 ppm	1.0200 g	6.4 mg/Kg #	1	0.7	3.9			2/23/18 20:20:32	N	II
21801417-015	Potassium, Total	N/A		Soil	10.24 ppm	1.0200 g	1000 mg/Kg #	1	20	200			2/23/18 20:20:32	N	II
21801417-015	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.98 mg/Kg # U	1	0.38	0.98			2/23/18 20:20:32	N	II
21801417-015	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.98 mg/Kg # U	1	0.07	0.98			2/23/18 20:20:32	N	II
21801417-015	Sodium, Total	N/A		Soil	1.75 ppm	1.0200 g	171 mg/Kg #	1	64	98			2/23/18 20:20:32	N	II
21801417-015	Thallium, Total	N/A		Soil	0.03 ppm	1.0200 g	2.52 mg/Kg #	1	0.52	0.98			2/23/18 20:20:32	N	II
21801417-015	Vanadium, Total	N/A		Soil	0.09 ppm	1.0200 g	8.4 mg/Kg #	1	0.7	4.9			2/23/18 20:20:32	N	II
21801417-015	Zinc, Total	N/A		Soil	1.13 ppm	1.0200 g	110 mg/Kg #	1	0.4	2.0			2/23/18 20:20:32	N	II
21801451-002	Arsenic, Total	N/A		Soil	0.02 ppm	1.0200 g	1.75 mg/Kg #	1	0.29	0.98			2/23/18 20:23:53	N	IV
21801451-002	Barium, Total	N/A		Soil	0.15 ppm	1.0200 g	14.5 mg/Kg #	1	0.08	2.0			2/23/18 20:23:53	N	IV
21801451-002	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.35 mg/Kg # J	1	0.02	0.49			2/23/18 20:23:53	N	IV
21801451-002	Chromium, Total	N/A		Soil	0.06 ppm	1.0200 g	6.11 mg/Kg #	1	0.10	0.98			2/23/18 20:23:53	N	IV
21801451-002	Lead, Total	N/A		Soil	0.35 ppm	1.0200 g	34.0 mg/Kg #	1	0.2	4.9			2/23/18 20:23:53	N	IV
21801451-002	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.98 mg/Kg # U	1	0.38	0.98			2/23/18 20:23:53	N	IV
21801451-002	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.98 mg/Kg # U	1	0.07	0.98			2/23/18 20:23:53	N	IV
21801451-007	Arsenic, Total	N/A		Soil	0.04 ppm	1.0200 g	3.72 mg/Kg #	1	0.29	0.98			2/23/18 20:27:14	N	IV
21801451-007	Barium, Total	N/A		Soil	0.94 ppm	1.0200 g	91.9 mg/Kg #	1	0.08	2.0			2/23/18 20:27:14	N	IV
21801451-007	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.41 mg/Kg # J	1	0.02	0.49			2/23/18 20:27:14	N	IV
21801451-007	Chromium, Total	N/A		Soil	0.09 ppm	1.0200 g	8.40 mg/Kg #	1	0.10	0.98			2/23/18 20:27:14	N	IV
21801451-007	Lead, Total	N/A		Soil	0.87 ppm	1.0200 g	85.4 mg/Kg #	1	0.2	4.9			2/23/18 20:27:14	N	IV
21801451-007	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.40 mg/Kg # J	1	0.38	0.98			2/23/18 20:27:14	N	IV
21801451-007	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	0.18 mg/Kg # J	1	0.07	0.98			2/23/18 20:27:14	N	IV
21801486-001	Arsenic, Total	N/A		Soil	0.05 ppm	1.0400 g	5.16 mg/Kg #	1	0.29	0.96			2/23/18 20:30:35	N	II
21801486-001	Barium, Total	N/A		Soil	0.42 ppm	1.0400 g	40.8 mg/Kg #	1	0.08	1.9			2/23/18 20:30:35	N	II
21801486-001	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.48 mg/Kg # U	1	0.02	0.48			2/23/18 20:30:35	N	II
21801486-001	Chromium, Total	N/A		Soil	0.07 ppm	1.0400 g	6.98 mg/Kg #	1	0.10	0.96			2/23/18 20:30:35	N	II
21801486-001	Lead, Total	N/A		Soil	0.10 ppm	1.0400 g	9.4 mg/Kg #	1	0.2	4.8			2/23/18 20:30:35	N	II
21801486-001	Selenium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.38	0.96			2/23/18 20:30:35	N	II
21801486-001	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.07	0.96			2/23/18 20:30:35	N	II
21801486-002	Arsenic, Total	N/A		Soil	0.07 ppm	1.0400 g	6.60 mg/Kg #	1	0.29	0.96			2/23/18 20:33:56	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581592 Method/Testcode: 6010C/Ba T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801486-002	Barium, Total	N/A		Soil	0.60 ppm	1.0400 g	57.4 mg/Kg #	1	0.08	1.9			2/23/18 20:33:56	N	II
21801486-002	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.48 mg/Kg # U	1	0.02	0.48			2/23/18 20:33:56	N	II
21801486-002	Chromium, Total	N/A		Soil	0.09 ppm	1.0400 g	8.59 mg/Kg #	1	0.10	0.96			2/23/18 20:33:56	N	II
21801486-002	Lead, Total	N/A		Soil	0.22 ppm	1.0400 g	21.4 mg/Kg #	1	0.2	4.8			2/23/18 20:33:56	N	II
21801486-002	Selenium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.38	0.96			2/23/18 20:33:56	N	II
21801486-002	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.07	0.96			2/23/18 20:33:56	N	II
21801486-003	Arsenic, Total	N/A		Soil	0.09 ppm	1.0100 g	8.92 mg/Kg #	1	0.29	0.99			2/23/18 20:37:17	N	II
21801486-003	Barium, Total	N/A		Soil	0.28 ppm	1.0100 g	27.3 mg/Kg #	1	0.08	2.0			2/23/18 20:37:17	N	II
21801486-003	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.50 mg/Kg # U	1	0.02	0.50			2/23/18 20:37:17	N	II
21801486-003	Chromium, Total	N/A		Soil	0.03 ppm	1.0100 g	2.81 mg/Kg #	1	0.10	0.99			2/23/18 20:37:17	N	II
21801486-003	Lead, Total	N/A		Soil	0.02 ppm	1.0100 g	5.0 mg/Kg # U	1	0.2	5.0			2/23/18 20:37:17	N	II
21801486-003	Selenium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.38	0.99			2/23/18 20:37:17	N	II
21801486-003	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	0.99 mg/Kg # U	1	0.07	0.99			2/23/18 20:37:17	N	II
21801417-006	Iron, Total	N/A		Soil	23.82 ppm	1.0500 g	22700 mg/Kg #	10	110	110			2/23/18 21:04:03	N	II
21801417-008	Calcium, Total	N/A		Soil	39.72 ppm	1.0100 g	39300 mg/Kg #	10	60	990			2/23/18 21:07:23	N	II
21801417-008	Iron, Total	N/A		Soil	13.63 ppm	1.0100 g	13500 mg/Kg #	10	110	120			2/23/18 21:07:23	N	II
21801417-010	Calcium, Total	N/A		Soil	34.59 ppm	1.0400 g	33300 mg/Kg #	10	60	960			2/23/18 21:10:45	N	II
21801417-010	Iron, Total	N/A		Soil	15.70 ppm	1.0400 g	15100 mg/Kg #	10	110	120			2/23/18 21:10:45	N	II
21801417-013	Calcium, Total	N/A		Soil	92.48 ppm	1.0200 g	90700 mg/Kg #	10	60	980			2/23/18 21:14:05	N	II
21801417-013	Iron, Total	N/A		Soil	11.15 ppm	1.0200 g	10900 mg/Kg #	10	110	120			2/23/18 21:14:05	N	II
21801417-014	Calcium, Total	N/A		Soil	123.44 ppm	1.0100 g	122000 mg/Kg #	10	60	990			2/23/18 21:17:27	N	II
21801417-014	Iron, Total	N/A		Soil	8.97 ppm	1.0100 g	8880 mg/Kg #	10	110	120			2/23/18 21:17:27	N	II
21801417-014	Magnesium, Total	N/A		Soil	63.52 ppm	1.0100 g	62900 mg/Kg #	10	190	990			2/23/18 21:17:27	N	II
21801417-015	Calcium, Total	N/A		Soil	102.15 ppm	1.0200 g	100000 mg/Kg #	10	60	980			2/23/18 21:20:48	N	II
21801417-015	Iron, Total	N/A		Soil	9.30 ppm	1.0200 g	9120 mg/Kg #	10	110	120			2/23/18 21:20:48	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581593

Method/Testcode: 6010C/AIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801645-01	Aluminum, Total	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	100	100			2/23/18 21:47:34	N	IV
2Q1801645-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			2/23/18 21:47:34	N	IV
2Q1801645-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/18 21:47:34	N	IV
2Q1801645-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			2/23/18 21:47:34	N	IV
2Q1801645-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			2/23/18 21:47:34	N	IV
2Q1801645-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			2/23/18 21:47:34	N	IV
2Q1801645-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 21:47:34	N	IV
2Q1801645-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			2/23/18 21:47:34	N	IV
2Q1801645-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			2/23/18 21:47:34	N	IV
2Q1801645-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			2/23/18 21:47:34	N	IV
2Q1801645-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			2/23/18 21:47:34	N	IV
2Q1801645-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 21:47:34	N	IV
2Q1801645-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/18 21:47:34	N	IV
2Q1801645-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			2/23/18 21:47:34	N	IV
2Q1801645-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			2/23/18 21:47:34	N	IV
2Q1801645-01	Potassium, Total	MB		Water	0.13 ppm	50 mL	2000 µg/L U	1	300	2000			2/23/18 21:47:34	N	IV
2Q1801645-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/18 21:47:34	N	IV
2Q1801645-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/18 21:47:34	N	IV
2Q1801645-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	3	100			2/23/18 21:47:34	N	IV
2Q1801645-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/18 21:47:34	N	IV
2Q1801645-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			2/23/18 21:47:34	N	IV
2Q1801645-01	Zinc, Total	MB		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			2/23/18 21:47:34	N	IV
2Q1801645-02	Aluminum, Total	LCS		Water	1.85 ppm	50 mL	1850 µg/L	1	100	100	93		2/23/18 21:50:55	N	IV
2Q1801645-02	Antimony, Total	LCS		Water	0.46 ppm	50 mL	464 µg/L	1	8	60	93		2/23/18 21:50:55	N	IV
2Q1801645-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	36.3 µg/L	1	4	10	91		2/23/18 21:50:55	N	IV
2Q1801645-02	Barium, Total	LCS		Water	2.08 ppm	50 mL	2080 µg/L	1	13	20	104		2/23/18 21:50:55	N	IV
2Q1801645-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	50.1 µg/L	1	0.7	3.0	100		2/23/18 21:50:55	N	IV
2Q1801645-02	Boron, Total	LCS		Water	0.97 ppm	50 mL	973 µg/L	1	80	200	97		2/23/18 21:50:55	N	IV
2Q1801645-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	50.5 µg/L	1	0.9	5.0	101		2/23/18 21:50:55	N	IV
2Q1801645-02	Chromium, Total	LCS		Water	0.21 ppm	50 mL	208 µg/L	1	3	10	104		2/23/18 21:50:55	N	IV
2Q1801645-02	Cobalt, Total	LCS		Water	0.51 ppm	50 mL	510 µg/L	1	3	50	102		2/23/18 21:50:55	N	IV
2Q1801645-02	Copper, Total	LCS		Water	0.25 ppm	50 mL	245 µg/L	1	10	20	98		2/23/18 21:50:55	N	IV
2Q1801645-02	Iron, Total	LCS		Water	1.01 ppm	50 mL	1010 µg/L	1	80	100	101		2/23/18 21:50:55	N	IV
2Q1801645-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	509 µg/L	1	4	50	102		2/23/18 21:50:55	N	IV
2Q1801645-02	Magnesium, Total	LCS		Water	1.99 ppm	50 mL	1990 µg/L	1	300	1000	99		2/23/18 21:50:55	N	IV
2Q1801645-02	Manganese, Total	LCS		Water	0.51 ppm	50 mL	509 µg/L	1	5	10	102		2/23/18 21:50:55	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581593

Method/Testcode: 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801645-02	Nickel, Total	LCS		Water	0.50 ppm	50 mL	499 µg/L	1	9	40	100		2/23/18 21:50:55	N	IV
RQ1801645-02	Potassium, Total	LCS		Water	19.19 ppm	50 mL	19200 µg/L	1	300	2000	96		2/23/18 21:50:55	N	IV
RQ1801645-02	Selenium, Total	LCS		Water	1.00 ppm	50 mL	1000 µg/L	1	4	10	99		2/23/18 21:50:55	N	IV
RQ1801645-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	49.2 µg/L	1	2	10	98		2/23/18 21:50:55	N	IV
RQ1801645-02	Strontium, Total	LCS		Water	2.04 ppm	50 mL	2040 µg/L	1	3	100	102		2/23/18 21:50:55	N	IV
RQ1801645-02	Thallium, Total	LCS		Water	1.87 ppm	50 mL	1870 µg/L	1	6	10	93		2/23/18 21:50:55	N	IV
RQ1801645-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	494 µg/L	1	3	50	99		2/23/18 21:50:55	N	IV
RQ1801645-02	Zinc, Total	LCS		Water	0.50 ppm	50 mL	496 µg/L	1	7	20	99		2/23/18 21:50:55	N	IV
R1801196-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 21:54:15	Y	IV
R1801196-001	Iron, Total	N/A		Water	2.31 ppm	50 mL	2310 µg/L	1	80	100			2/23/18 21:54:15	Y	IV
R1801196-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 21:54:15	Y	IV
R1801196-001	Magnesium, Total	N/A		Water	52.98 ppm	50 mL	53000 µg/L	1	300	1000			2/23/18 21:54:15	Y	IV
R1801196-001	Manganese, Total	N/A		Water	2.44 ppm	50 mL	2440 µg/L	1	5	10			2/23/18 21:54:15	Y	IV
RQ1801645-03	Cadmium, Total	MS	R1801196-001	Water	0.04 ppm	50 mL	43.1 µg/L	1	0.9	5.0	86		2/23/18 21:57:36	N	IV
RQ1801645-03	Iron, Total	MS	R1801196-001	Water	3.15 ppm	50 mL	3150 µg/L	1	80	100	84		2/23/18 21:57:36	N	IV
RQ1801645-03	Lead, Total	MS	R1801196-001	Water	0.45 ppm	50 mL	448 µg/L	1	4	50	90		2/23/18 21:57:36	N	IV
RQ1801645-03	Magnesium, Total	MS	R1801196-001	Water	54.98 ppm	50 mL	55000 µg/L	1	300	1000	100		2/23/18 21:57:36	N	IV
RQ1801645-03	Manganese, Total	MS	R1801196-001	Water	2.90 ppm	50 mL	2900 µg/L	1	5	10	91		2/23/18 21:57:36	N	IV
RQ1801645-04	Cadmium, Total	DMS	R1801196-001	Water	0.04 ppm	50 mL	42.4 µg/L	1	0.9	5.0	85	2	2/23/18 22:00:56	N	IV
RQ1801645-04	Iron, Total	DMS	R1801196-001	Water	3.11 ppm	50 mL	3110 µg/L	1	80	100	81	1	2/23/18 22:00:56	N	IV
RQ1801645-04	Lead, Total	DMS	R1801196-001	Water	0.45 ppm	50 mL	446 µg/L	1	4	50	89	<1	2/23/18 22:00:56	N	IV
RQ1801645-04	Magnesium, Total	DMS	R1801196-001	Water	53.93 ppm	50 mL	53900 µg/L	1	300	1000	47*	2	2/23/18 22:00:56	N	IV
RQ1801645-04	Manganese, Total	DMS	R1801196-001	Water	2.86 ppm	50 mL	2860 µg/L	1	5	10	84	1	2/23/18 22:00:56	N	IV
R1801196-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 22:31:04	N	IV
R1801196-006	Iron, Total	N/A		Water	11.56 ppm	50 mL	11600 µg/L	1	80	100			2/23/18 22:31:04	N	IV
R1801196-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 22:31:04	N	IV
R1801196-006	Magnesium, Total	N/A		Water	110.95 ppm	50 mL	111000 µg/L	1	300	1000			2/23/18 22:31:04	N	IV
R1801196-006	Manganese, Total	N/A		Water	0.40 ppm	50 mL	404 µg/L	1	5	10			2/23/18 22:31:04	N	IV
R1801196-006	Potassium, Total	N/A		Water	67.64 ppm	50 mL	67600 µg/L	1	300	2000			2/23/18 22:31:04	N	IV
R1801196-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 22:34:25	N	IV
R1801196-007	Iron, Total	N/A		Water	1.67 ppm	50 mL	1670 µg/L	1	80	100			2/23/18 22:34:25	N	IV
R1801196-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 22:34:25	N	IV
R1801196-007	Magnesium, Total	N/A		Water	46.66 ppm	50 mL	46700 µg/L	1	300	1000			2/23/18 22:34:25	N	IV
R1801196-007	Manganese, Total	N/A		Water	0.10 ppm	50 mL	100 µg/L	1	5	10			2/23/18 22:34:25	N	IV
R1801196-007	Potassium, Total	N/A		Water	3.34 ppm	50 mL	3300 µg/L	1	300	2000			2/23/18 22:34:25	N	IV
R1801196-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 22:37:45	N	IV

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

581593

Method/Testcode: 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801196-008	Iron, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	80	100			2/23/18 22:37:45	N	IV
21801196-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 22:37:45	N	IV
21801196-008	Magnesium, Total	N/A		Water	0.03 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/18 22:37:45	N	IV
21801196-008	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			2/23/18 22:37:45	N	IV
21801196-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 22:47:46	N	IV
21801196-011	Iron, Total	N/A		Water	0.11 ppm	50 mL	110 µg/L	1	80	100			2/23/18 22:47:46	N	IV
21801196-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 22:47:46	N	IV
21801196-011	Magnesium, Total	N/A		Water	0.05 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/18 22:47:46	N	IV
21801196-011	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			2/23/18 22:47:46	N	IV
21801196-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 22:54:27	N	IV
21801196-013	Iron, Total	N/A		Water	14.73 ppm	50 mL	14700 µg/L	1	80	100			2/23/18 22:54:27	N	IV
21801196-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 22:54:27	N	IV
21801196-013	Magnesium, Total	N/A		Water	19.48 ppm	50 mL	19500 µg/L	1	300	1000			2/23/18 22:54:27	N	IV
21801196-013	Manganese, Total	N/A		Water	5.45 ppm	50 mL	5450 µg/L	1	5	10			2/23/18 22:54:27	N	IV
21801196-013	Potassium, Total	N/A		Water	50.03 ppm	50 mL	50000 µg/L	1	300	2000			2/23/18 22:54:27	N	IV
21801196-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 22:57:48	N	IV
21801196-014	Iron, Total	N/A		Water	3.49 ppm	50 mL	3490 µg/L	1	80	100			2/23/18 22:57:48	N	IV
21801196-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 22:57:48	N	IV
21801196-014	Magnesium, Total	N/A		Water	9.09 ppm	50 mL	9100 µg/L	1	300	1000			2/23/18 22:57:48	N	IV
21801196-014	Manganese, Total	N/A		Water	0.37 ppm	50 mL	369 µg/L	1	5	10			2/23/18 22:57:48	N	IV
21801196-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 23:07:50	N	IV
21801196-015	Iron, Total	N/A		Water	23.44 ppm	50 mL	23400 µg/L	1	80	100			2/23/18 23:07:50	N	IV
21801196-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 23:07:50	N	IV
21801196-015	Magnesium, Total	N/A		Water	13.84 ppm	50 mL	13800 µg/L	1	300	1000			2/23/18 23:07:50	N	IV
21801196-015	Manganese, Total	N/A		Water	3.41 ppm	50 mL	3410 µg/L	1	5	10			2/23/18 23:07:50	N	IV
21801196-015	Potassium, Total	N/A		Water	27.56 ppm	50 mL	27600 µg/L	1	300	2000			2/23/18 23:07:50	N	IV
21801196-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 23:11:11	N	IV
21801196-016	Iron, Total	N/A		Water	0.33 ppm	50 mL	330 µg/L	1	80	100			2/23/18 23:11:11	N	IV
21801196-016	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 23:11:11	N	IV
21801196-016	Magnesium, Total	N/A		Water	25.63 ppm	50 mL	25600 µg/L	1	300	1000			2/23/18 23:11:11	N	IV
21801196-016	Manganese, Total	N/A		Water	0.03 ppm	50 mL	26 µg/L	1	5	10			2/23/18 23:11:11	N	IV
21801196-016	Potassium, Total	N/A		Water	8.22 ppm	50 mL	8200 µg/L	1	300	2000			2/23/18 23:11:11	N	IV
21801411-001	Aluminum, Total	N/A		Water	0.79 ppm	50 mL	790 µg/L	1	100	100			2/23/18 23:21:13	N	II
21801411-001	Barium, Total	N/A		Water	1.49 ppm	50 mL	1490 µg/L	1	13	20			2/23/18 23:21:13	N	II
21801411-001	Iron, Total	N/A		Water	4.43 ppm	50 mL	4430 µg/L	1	80	100			2/23/18 23:21:13	N	II
21801411-001	Magnesium, Total	N/A		Water	177.96 ppm	50 mL	178000 µg/L	1	300	1000			2/23/18 23:21:13	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581593 Method/Testcode: 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801411-001	Manganese, Total	N/A		Water	0.15 ppm	50 mL	146 µg/L	1	5	10			2/23/18 23:21:13	N	II
21801411-001	Strontium, Total	N/A		Water	1.67 ppm	50 mL	1670 µg/L	1	3	100			2/23/18 23:21:13	N	II
21801411-002	Aluminum, Total	N/A		Water	2.62 ppm	50 mL	2620 µg/L	1	100	100			2/23/18 23:24:34	N	II
21801411-002	Barium, Total	N/A		Water	0.88 ppm	50 mL	885 µg/L	1	13	20			2/23/18 23:24:34	N	II
21801411-002	Iron, Total	N/A		Water	10.41 ppm	50 mL	10400 µg/L	1	80	100			2/23/18 23:24:34	N	II
21801411-002	Magnesium, Total	N/A		Water	313.18 ppm	50 mL	313000 µg/L	1	300	1000			2/23/18 23:24:34	N	II
21801411-002	Manganese, Total	N/A		Water	0.38 ppm	50 mL	375 µg/L	1	5	10			2/23/18 23:24:34	N	II
21801411-002	Strontium, Total	N/A		Water	3.54 ppm	50 mL	3540 µg/L	1	3	100			2/23/18 23:24:34	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

581596

Method/Testcode: 6010C/AIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801646-01	Aluminum, Total	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	100	100			2/23/18 23:51:20	N	IV
RQ1801646-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			2/23/18 23:51:20	N	IV
RQ1801646-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/18 23:51:20	N	IV
RQ1801646-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			2/23/18 23:51:20	N	IV
RQ1801646-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			2/23/18 23:51:20	N	IV
RQ1801646-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/23/18 23:51:20	N	IV
RQ1801646-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			2/23/18 23:51:20	N	IV
RQ1801646-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			2/23/18 23:51:20	N	IV
RQ1801646-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			2/23/18 23:51:20	N	IV
RQ1801646-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			2/23/18 23:51:20	N	IV
RQ1801646-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/23/18 23:51:20	N	IV
RQ1801646-01	Magnesium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			2/23/18 23:51:20	N	IV
RQ1801646-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			2/23/18 23:51:20	N	IV
RQ1801646-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			2/23/18 23:51:20	N	IV
RQ1801646-01	Potassium, Total	MB		Water	0.15 ppm	50 mL	2000 µg/L U	1	300	2000			2/23/18 23:51:20	N	IV
RQ1801646-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/23/18 23:51:20	N	IV
RQ1801646-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/23/18 23:51:20	N	IV
RQ1801646-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/23/18 23:51:20	N	IV
RQ1801646-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			2/23/18 23:51:20	N	IV
RQ1801646-01	Zinc, Total	MB		Water	0.01 ppm	50 mL	8 µg/L U	1	7	20			2/23/18 23:51:20	N	IV
RQ1801646-02	Aluminum, Total	LCS		Water	1.83 ppm	50 mL	1830 µg/L	1	100	100	92		2/23/18 23:54:40	N	IV
RQ1801646-02	Antimony, Total	LCS		Water	0.46 ppm	50 mL	458 µg/L	1	8	60	92		2/23/18 23:54:40	N	IV
RQ1801646-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	39.7 µg/L	1	4	10	99		2/23/18 23:54:40	N	IV
RQ1801646-02	Barium, Total	LCS		Water	2.05 ppm	50 mL	2050 µg/L	1	13	20	102		2/23/18 23:54:40	N	IV
RQ1801646-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	49.3 µg/L	1	0.7	3.0	99		2/23/18 23:54:40	N	IV
RQ1801646-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	49.4 µg/L	1	0.9	5.0	99		2/23/18 23:54:40	N	IV
RQ1801646-02	Chromium, Total	LCS		Water	0.21 ppm	50 mL	206 µg/L	1	3	10	103		2/23/18 23:54:40	N	IV
RQ1801646-02	Cobalt, Total	LCS		Water	0.50 ppm	50 mL	504 µg/L	1	3	50	101		2/23/18 23:54:40	N	IV
RQ1801646-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	242 µg/L	1	10	20	97		2/23/18 23:54:40	N	IV
RQ1801646-02	Iron, Total	LCS		Water	1.00 ppm	50 mL	1000 µg/L	1	80	100	100		2/23/18 23:54:40	N	IV
RQ1801646-02	Lead, Total	LCS		Water	0.50 ppm	50 mL	502 µg/L	1	4	50	100		2/23/18 23:54:40	N	IV
RQ1801646-02	Magnesium, Total	LCS		Water	1.97 ppm	50 mL	1970 µg/L	1	300	1000	99		2/23/18 23:54:40	N	IV
RQ1801646-02	Manganese, Total	LCS		Water	0.50 ppm	50 mL	500 µg/L	1	5	10	100		2/23/18 23:54:40	N	IV
RQ1801646-02	Nickel, Total	LCS		Water	0.49 ppm	50 mL	493 µg/L	1	9	40	99		2/23/18 23:54:40	N	IV
RQ1801646-02	Potassium, Total	LCS		Water	18.99 ppm	50 mL	19000 µg/L	1	300	2000	95		2/23/18 23:54:40	N	IV
RQ1801646-02	Selenium, Total	LCS		Water	1.00 ppm	50 mL	1000 µg/L	1	4	10	99		2/23/18 23:54:40	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581596 Method/Testcode: 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801646-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	48.4 µg/L	1	2	10	97		2/23/18 23:54:40	N	IV
RQ1801646-02	Thallium, Total	LCS		Water	1.84 ppm	50 mL	1840 µg/L	1	6	10	92		2/23/18 23:54:40	N	IV
RQ1801646-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	488 µg/L	1	3	50	98		2/23/18 23:54:40	N	IV
RQ1801646-02	Zinc, Total	LCS		Water	0.50 ppm	50 mL	497 µg/L	1	7	20	99		2/23/18 23:54:40	N	IV
R1801311-019	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/24/18 00:01:20	N	IV
R1801311-019	Iron, Total	N/A		Water	14.33 ppm	50 mL	14300 µg/L	1	80	100			2/24/18 00:01:20	N	IV
R1801311-019	Lead, Total	N/A		Water	0.01 ppm	50 mL	12 µg/L J	1	4	50			2/24/18 00:01:20	N	IV
R1801311-019	Magnesium, Total	N/A		Water	48.91 ppm	50 mL	48900 µg/L	1	300	1000			2/24/18 00:01:20	N	IV
R1801311-019	Manganese, Total	N/A		Water	1.89 ppm	50 mL	1890 µg/L	1	5	10			2/24/18 00:01:20	N	IV
R1801311-019	Potassium, Total	N/A		Water	59.55 ppm	50 mL	59600 µg/L	1	300	2000			2/24/18 00:01:20	N	IV
R1801417-016	Aluminum, Total	N/A		Water	10.80 ppm	50 mL	10800 µg/L	1	100	100			2/24/18 00:08:02	N	II
R1801417-016	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			2/24/18 00:08:02	N	II
R1801417-016	Barium, Total	N/A		Water	0.18 ppm	50 mL	176 µg/L	1	13	20			2/24/18 00:08:02	N	II
R1801417-016	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			2/24/18 00:08:02	N	II
R1801417-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/24/18 00:08:02	N	II
R1801417-016	Chromium, Total	N/A		Water	0.02 ppm	50 mL	17 µg/L	1	3	10			2/24/18 00:08:02	N	II
R1801417-016	Cobalt, Total	N/A		Water	0.01 ppm	50 mL	50 µg/L U	1	3	50			2/24/18 00:08:02	N	II
R1801417-016	Copper, Total	N/A		Water	0.03 ppm	50 mL	34 µg/L	1	10	20			2/24/18 00:08:02	N	II
R1801417-016	Iron, Total	N/A		Water	20.00 ppm	50 mL	20000 µg/L	1	80	100			2/24/18 00:08:02	N	II
R1801417-016	Lead, Total	N/A		Water	0.04 ppm	50 mL	50 µg/L U	1	4	50			2/24/18 00:08:02	N	II
R1801417-016	Magnesium, Total	N/A		Water	64.06 ppm	50 mL	64100 µg/L	1	300	1000			2/24/18 00:08:02	N	II
R1801417-016	Manganese, Total	N/A		Water	2.04 ppm	50 mL	2040 µg/L	1	5	10			2/24/18 00:08:02	N	II
R1801417-016	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			2/24/18 00:08:02	N	II
R1801417-016	Potassium, Total	N/A		Water	17.68 ppm	50 mL	17700 µg/L	1	300	2000			2/24/18 00:08:02	N	II
R1801417-016	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			2/24/18 00:08:02	N	II
R1801417-016	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			2/24/18 00:08:02	N	II
R1801417-016	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			2/24/18 00:08:02	N	II
R1801417-016	Vanadium, Total	N/A		Water	0.03 ppm	50 mL	50 µg/L U	1	3	50			2/24/18 00:08:02	N	II
R1801417-016	Zinc, Total	N/A		Water	0.21 ppm	50 mL	211 µg/L	1	7	20			2/24/18 00:08:02	N	II
R1801469-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/24/18 00:14:43	N	IV
R1801469-002	Iron, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	80	100			2/24/18 00:14:43	N	IV
R1801469-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/24/18 00:14:43	N	IV
R1801469-002	Magnesium, Total	N/A		Water	0.43 ppm	50 mL	400 µg/L J	1	300	1000			2/24/18 00:14:43	N	IV
R1801469-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			2/24/18 00:14:43	N	IV
R1801469-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/24/18 00:58:11	N	IV
R1801469-011	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			2/24/18 00:58:11	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581596 Method/Testcode: 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801469-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/24/18 00:58:11	N	IV
21801469-011	Magnesium, Total	N/A		Water	0.20 ppm	50 mL	1000 µg/L U	1	300	1000			2/24/18 00:58:11	N	IV
21801469-011	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			2/24/18 00:58:11	N	IV
21801469-011	Potassium, Total	N/A		Water	13.08 ppm	50 mL	13100 µg/L	1	300	2000			2/24/18 00:58:11	N	IV
21801469-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			2/24/18 01:11:35	N	IV
21801469-013	Iron, Total	N/A		Water	1.14 ppm	50 mL	1140 µg/L	1	80	100			2/24/18 01:11:35	N	IV
21801469-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			2/24/18 01:11:35	N	IV
21801469-013	Magnesium, Total	N/A		Water	27.00 ppm	50 mL	27000 µg/L	1	300	1000			2/24/18 01:11:35	N	IV
21801469-013	Manganese, Total	N/A		Water	0.07 ppm	50 mL	74 µg/L	1	5	10			2/24/18 01:11:35	N	IV
21801469-013	Potassium, Total	N/A		Water	8.23 ppm	50 mL	8200 µg/L	1	300	2000			2/24/18 01:11:35	N	IV
21801482-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			2/24/18 01:24:55	N	II
21801482-001	Iron, Total	N/A		Water	0.78 ppm	50 mL	0.78 mg/L	1	0.08	0.10			2/24/18 01:24:55	N	II
21801482-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0036	0.0050			2/24/18 01:24:55	N	II
21801482-001	Magnesium, Total	N/A		Water	39.06 ppm	50 mL	39.1 mg/L	1	0.3	1.0			2/24/18 01:24:55	N	II
21801482-001	Manganese, Total	N/A		Water	0.08 ppm	50 mL	0.077 mg/L	1	0.005	0.010			2/24/18 01:24:55	N	II
21801482-001	Potassium, Total	N/A		Water	9.24 ppm	50 mL	9.2 mg/L	1	0.3	2.0			2/24/18 01:24:55	N	II
21801482-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			2/24/18 01:28:16	N	II
21801482-002	Iron, Total	N/A		Water	0.45 ppm	50 mL	0.45 mg/L	1	0.08	0.10			2/24/18 01:28:16	N	II
21801482-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0036	0.0050			2/24/18 01:28:16	N	II
21801482-002	Magnesium, Total	N/A		Water	33.00 ppm	50 mL	33.0 mg/L	1	0.3	1.0			2/24/18 01:28:16	N	II
21801482-002	Manganese, Total	N/A		Water	0.06 ppm	50 mL	0.058 mg/L	1	0.005	0.010			2/24/18 01:28:16	N	II
21801482-002	Potassium, Total	N/A		Water	6.93 ppm	50 mL	6.9 mg/L	1	0.3	2.0			2/24/18 01:28:16	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 581597 Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801646-01	Calcium, Total	MB		Water	0.04 ppm	50 mL	1000 µg/L U	1	400	1000			2/23/18 23:51:20	N	IV
2Q1801646-01	Sodium, Total	MB		Water	0.18 ppm	50 mL	1000 µg/L U	1	400	1000			2/23/18 23:51:20	N	IV
2Q1801646-02	Calcium, Total	LCS		Water	1.85 ppm	50 mL	1850 µg/L	1	400	1000	92		2/23/18 23:54:40	N	IV
2Q1801646-02	Sodium, Total	LCS		Water	19.88 ppm	50 mL	19900 µg/L	1	400	1000	99		2/23/18 23:54:40	N	IV
21801417-016	Calcium, Total	N/A		Water	149.00 ppm	50 mL	149000 µg/L	1	400	1000			2/24/18 00:08:02	N	II
21801417-016	Sodium, Total	N/A		Water	60.49 ppm	50 mL	60500 µg/L	1	400	1000			2/24/18 00:08:02	N	II
21801482-001	Calcium, Total	N/A		Water	100.24 ppm	50 mL	100 mg/L	1	0.4	1.0			2/24/18 01:24:55	N	II
21801482-001	Sodium, Total	N/A		Water	68.64 ppm	50 mL	68.6 mg/L	1	0.4	1.0			2/24/18 01:24:55	N	II
21801482-002	Calcium, Total	N/A		Water	86.61 ppm	50 mL	86.6 mg/L	1	0.4	1.0			2/24/18 01:28:16	N	II
21801482-002	Sodium, Total	N/A		Water	52.63 ppm	50 mL	52.6 mg/L	1	0.4	1.0			2/24/18 01:28:16	N	II

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Metals Cover Page

Analyst: NM

Date: 2/22/18

Instrument: FIMSII

Data File: FEB22A-S

Reviewed By: NM

Entered By: NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
581444	Hg	308695	7471B		

581445	Hg	308696	7471B		




## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No



Perkin Elmer FIMS Run Log

Serial number: 101S12110203

Analyst: NM

Data File: FEB22A-S

Date Prepped: 2/21/18

Date Analyzed: 2/22/18

Lot #: Calibration/CRDL Source Standard: M7600001N

ICV/CCV/LCS/MS Source Standard: M7600001A

Cal/ CRDL 10ppm stock: M7590068A

ICV/CCV/LCS/MS 10ppm stock: M7690038A

Cal/ CRDL 0.1ppm stock: M7590088D

ICV/CCV/LCS/MS 0.1 ppm stock: M7590038D

Pipet ID: M28, M26

DOD Pipet Verification: -

1	Calib Blank	60	PBS-308696
2	0.2ppb std	61	LCSS-308696
3	0.5ppb std	62	R1801417-004
4	1.0ppb std	2	MRL
5	2.0ppb std	8	CCV
6	5.0ppb std	1	CCB
7	10.0ppb std	63	R1801417-004S
8	ICV	64	R1801417-004SD
1	ICB	65	R1801417-006
2	MRL	66	R1801417-008
8	CCV	67	R1801417-010
1	CCB	68	R1801417-013
38	PBS-308695	69	R1801417-014
39	LCSS-308695	8	CCV
40	R1801453-001	1	CCB
41	R1801453-002	70	R1801417-015
42	R1801453-003	71	R1801451-002
43	R1801453-003S	72	R1801451-007
44	R1801453-003SD	73	R1801486-001
8	CCV	74	R1801486-002
1	CCB	75	R1801486-003
45	R1801453-005	2	MRL
46	R1801453-006	8	CCV
47	R1801453-007	1	CCB
48	R1801453-008	76	Sample076
49	R1801453-009		
50	R1801453-010		
51	R1801453-011		
52	R1801453-012		
8	CCV		
1	CCB		
53	R1801453-013		
54	R1801453-014		
55	R1801453-015		
56	R1801453-016		
57	R1801453-017		
58	R1801453-018		
59	R1801453-019		
2	MRL		
8	CCV		
1	CCB		

<R1801453-002 10x

<R1801453-015 5x

NM  
2/22/18

NM 2/22/18

=====  
Analysis BegunLogged In Analyst: ALRCE Metals01  
Spectrometer: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS  
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\AA\Data\Sample Information\Routine3.sif

Batch ID:

Results Data Set: FEB22A-S

Results Library: C:\Users\Public\PerkinElmer\AA\Data\Results\FEB18.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank

Date Collected: 2/22/2018 1:03:24 PM

Analyst:

Data Type: Original

=====  
Replicate Data: Calib Blank

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0000	0.0001	0.0000	1:04:13 PM	Yes
2		[0.00]	0.0000	-0.0000	0.0000	1:04:42 PM	Yes
Mean:		[0.00]	0.0000				
SD:		0.0000	0.0000				
%RSD:		0.00%	42.39				

Auto-zero performed.

Sequence No.: 2

Autosampler Location: 2

Sample ID: 0.2ppb std

Date Collected: 2/22/2018 1:05:00 PM

Analyst:

Data Type: Original

=====  
Replicate Data: 0.2ppb std

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0028	0.0126	0.0028	1:05:49 PM	Yes
2		[0.2]	0.0028	0.0121	0.0028	1:06:19 PM	Yes
Mean:		[0.2]	0.0028				
SD:		0.000	0.0000				
%RSD:		0.00%	0.52				

Standard number 1 applied. [0.2]

Correlation Coef.: 1.000000 Slope: 0.01383 Intercept: 0.00000

Sequence No.: 3

Autosampler Location: 3

Sample ID: 0.5ppb std

Date Collected: 2/22/2018 1:06:37 PM

Analyst:

Data Type: Original

=====  
Replicate Data: 0.5ppb std

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0077	-0.0328	0.0077	1:07:27 PM	Yes
2		[0.5]	0.0075	0.0310	0.0075	1:07:56 PM	Yes
Mean:		[0.5]	0.0076				
SD:		0.000	0.0001				
%RSD:		0.00%	1.77				

Standard number 2 applied. [0.5]

Correlation Coef.: 0.997028 Slope: 0.01498 Intercept: 0.00000

Sequence No.: 4

Autosampler Location: 4

Sample ID: 1.0ppb std

Date Collected: 2/22/2018 1:08:15 PM

Analyst:

Data Type: Original

=====  
Replicate Data: 1.0ppb std

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0133	0.0587	0.0134	1:09:05 PM	Yes

2 [1.0] 0.0137 0.0617 0.0138 1:09:35 PM Yes  
 Mean: [1.0] 0.0135  
 SD: 0.000 0.0003  
 %RSD: 0.00% 2.14  
 Standard number 3 applied. [1.0]  
 Correlation Coef.: 0.995872 Slope: 0.01389 Intercept: 0.00000

Sequence No.: 5 Autosampler Location: 5  
 Sample ID: 2.0ppb std Date Collected: 2/22/2018 1:09:54 PM  
 Analyst: Data Type: Original

Replicate Data: 2.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[2.0]	[2.0]	0.0286	0.1278	0.0287	1:10:45 PM	Yes
2	[2.0]	[2.0]	0.0289	0.1228	0.0289	1:11:14 PM	Yes
Mean:	[2.0]	[2.0]	0.0288				
SD:	0.000	0.000	0.0002				
%RSD:	0.00%	0.00%	0.61				

Standard number 4 applied. [2.0]  
 Correlation Coef.: 0.998973 Slope: 0.01426 Intercept: 0.00000

Sequence No.: 6 Autosampler Location: 6  
 Sample ID: 5.0ppb std Date Collected: 2/22/2018 1:11:34 PM  
 Analyst: Data Type: Original

Replicate Data: 5.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0694	0.3043	0.0695	1:12:23 PM	Yes
2	[5.0]	[5.0]	0.0678	0.2969	0.0678	1:12:52 PM	Yes
Mean:	[5.0]	[5.0]	0.0686				
SD:	0.000	0.000	0.0012				
%RSD:	0.00%	0.00%	1.74				

Standard number 5 applied. [5.0]  
 Correlation Coef.: 0.999650 Slope: 0.01382 Intercept: 0.00000

Sequence No.: 7 Autosampler Location: 7  
 Sample ID: 10.0ppb std Date Collected: 2/22/2018 1:13:10 PM  
 Analyst: Data Type: Original

Replicate Data: 10.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.1316	0.5811	0.1316	1:13:59 PM	Yes
2	[10.0]	[10.0]	0.1358	0.6125	0.1358	1:14:28 PM	Yes
Mean:	[10.0]	[10.0]	0.1337				
SD:	0.000	0.000	0.0029				
%RSD:	0.00%	0.00%	2.20				

Standard number 6 applied. [10.0]  
 Correlation Coef.: 0.999748 Slope: 0.01348 Intercept: 0.00000

Calibration data for Hg 253.7 Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.000	0.00	42.39
0.2ppb std	0.0028	0.2	0.205	0.00	0.52
0.5ppb std	0.0076	0.5	0.562	0.00	1.77
1.0ppb std	0.0135	1.0	1.005	0.00	2.14
2.0ppb std	0.0288	2.0	2.134	0.00	0.61
5.0ppb std	0.0686	5.0	5.090	0.00	1.74
10.0ppb std	0.1337	10.0	9.921	0.00	2.20

Correlation Coef.: 0.999748 Slope: 0.01348 Intercept: 0.00000

Sequence No.: 8  
 Sample ID: ICV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 1:14:47 PM  
 Data Type: Original

## Replicate Data: ICV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.070	3.070	0.0414	0.1842	0.0414	1:15:38 PM	Yes
2	3.151	3.151	0.0425	0.1827	0.0425	1:16:07 PM	Yes
Mean:	3.110	3.110	0.0419				
SD:	0.0571	0.0571	0.0008				
%RSD:	1.84%	1.84%	1.84				

QC value within limits for Hg 253.7 Recovery = 103.67%

All analyte(s) passed QC.

Sequence No.: 9  
 Sample ID: ICB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 1:16:26 PM  
 Data Type: Original

## Replicate Data: ICB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	-0.0002	0.0001	1:17:15 PM	Yes
2	0.006	0.006	0.0001	0.0009	0.0001	1:17:43 PM	Yes
Mean:	0.004	0.004	0.0001				
SD:	0.0024	0.0024	0.0000				
%RSD:	59.61%	59.61%	59.61				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 2/22/2018 1:18:02 PM  
 Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.205	0.205	0.0028	0.0123	0.0028	1:18:51 PM	Yes
2	0.214	0.214	0.0029	0.0134	0.0029	1:19:20 PM	Yes
Mean:	0.210	0.210	0.0028				
SD:	0.0069	0.0069	0.0001				
%RSD:	3.28%	3.28%	3.28				

QC value within limits for Hg 253.7 Recovery = 104.80%

All analyte(s) passed QC.

Sequence No.: 11  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 1:19:39 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.217	3.217	0.0434	0.1889	0.0434	1:20:29 PM	Yes
2	3.142	3.142	0.0423	0.1777	0.0424	1:20:58 PM	Yes
Mean:	3.180	3.180	0.0429				
SD:	0.0530	0.0530	0.0007				
%RSD:	1.67%	1.67%	1.67				

QC value within limits for Hg 253.7 Recovery = 106.00%

All analyte(s) passed QC.

Sequence No.: 12  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 1:21:17 PM  
 Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0001	0.0004	0.0001	1:22:07 PM	Yes
2	0.007	0.007	0.0001	0.0010	0.0001	1:22:35 PM	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.0020	0.0020	0.0000				
%RSD:	36.14%	36.14%	36.14				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 13

Autosampler Location: 38

Sample ID: PBS-308695

Date Collected: 2/22/2018 1:22:54 PM

Analyst:

Data Type: Original

## Replicate Data: PBS-308695

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	0.0014	0.0001	1:23:43 PM	Yes
2	0.012	0.012	0.0002	0.0013	0.0002	1:24:12 PM	Yes
Mean:	0.010	0.010	0.0001				
SD:	0.0017	0.0017	0.0000				
%RSD:	16.30%	16.30%	16.30				

Sequence No.: 14

Autosampler Location: 39

Sample ID: LCSS-308695

Date Collected: 2/22/2018 1:24:31 PM

Analyst:

Data Type: Original

## Replicate Data: LCSS-308695

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.075	1.075	0.0145	0.0618	0.0145	1:25:20 PM	Yes
2	1.078	1.078	0.0145	0.0612	0.0146	1:25:49 PM	Yes
Mean:	1.076	1.076	0.0145				
SD:	0.0023	0.0023	0.0000				
%RSD:	0.21%	0.21%	0.21				

Sequence No.: 15

Autosampler Location: 40

Sample ID: R1801453-001

Date Collected: 2/22/2018 1:26:08 PM

Analyst:

Data Type: Original

## Replicate Data: R1801453-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.293	3.293	0.0444	0.1844	0.0444	1:26:58 PM	Yes
2	3.391	3.391	0.0457	0.2032	0.0457	1:27:27 PM	Yes
Mean:	3.342	3.342	0.0450				
SD:	0.0690	0.0690	0.0009				
%RSD:	2.06%	2.06%	2.06				

Sequence No.: 16

Autosampler Location: 41

Sample ID: R1801453-002

Date Collected: 2/22/2018 1:27:46 PM

Analyst:

Data Type: Original

## Replicate Data: R1801453-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	46.02	46.02	0.6202	2.8561	0.6202	1:28:36 PM	Yes
2	46.91	46.91	0.6322	2.9118	0.6322	1:29:05 PM	Yes
Mean:	46.46	46.46	0.6262				

Sample concentration is greater than that of the highest standard.

Sample concentration is greater than that of the highest standard.

SD: 0.631 0.631 0.0085  
 %RSD: 1.36% 1.36% 1.36

Sample concentration is greater than that of the highest standard.

Sequence No.: 17

Sample ID: R1801453-003

Analyst:

Autosampler Location: 42

Date Collected: 2/22/2018 1:29:25 PM

Data Type: Original

Replicate Data: R1801453-003

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.260	0.260	0.0035	0.0140	0.0035	1:30:15 PM	Yes
2	0.260	0.260	0.0035	0.0145	0.0035	1:30:43 PM	Yes
Mean:	0.260	0.260	0.0035				
SD:	0.0004	0.0004	0.0000				
%RSD:	0.17%	0.17%	0.17				

Sequence No.: 18

Sample ID: R1801453-003S

Analyst:

Autosampler Location: 43

Date Collected: 2/22/2018 1:31:03 PM

Data Type: Original

Replicate Data: R1801453-003S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.319	1.319	0.0178	0.0773	0.0178	1:31:52 PM	Yes
2	1.366	1.366	0.0184	0.0776	0.0184	1:32:21 PM	Yes
Mean:	1.343	1.343	0.0181				
SD:	0.0337	0.0337	0.0005				
%RSD:	2.51%	2.51%	2.51				

Sequence No.: 19

Sample ID: R1801453-003SD

Analyst:

Autosampler Location: 44

Date Collected: 2/22/2018 1:32:40 PM

Data Type: Original

Replicate Data: R1801453-003SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.366	1.366	0.0184	0.0788	0.0184	1:33:30 PM	Yes
2	1.343	1.343	0.0181	0.0754	0.0181	1:33:59 PM	Yes
Mean:	1.355	1.355	0.0183				
SD:	0.0162	0.0162	0.0002				
%RSD:	1.19%	1.19%	1.19				

Sequence No.: 20

Sample ID: CCV

Analyst:

Autosampler Location: 8

Date Collected: 2/22/2018 1:34:19 PM

Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.158	3.158	0.0426	0.1803	0.0426	1:35:08 PM	Yes
2	3.280	3.280	0.0442	0.1946	0.0442	1:35:37 PM	Yes
Mean:	3.219	3.219	0.0434				
SD:	0.0869	0.0869	0.0012				
%RSD:	2.70%	2.70%	2.70				

QC value within limits for Hg 253.7 Recovery = 107.30%  
 All analyte(s) passed QC.

Sequence No.: 21

Sample ID: CCB

Analyst:

Autosampler Location: 1

Date Collected: 2/22/2018 1:35:56 PM

Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0002	0.0001	1:36:45 PM	Yes
2	0.007	0.007	0.0001	0.0008	0.0001	1:37:15 PM	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.0012	0.0012	0.0000				
%RSD:	21.58%	21.58%	21.58				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 22

Autosampler Location: 85

Sample ID: R1801453-002 10X

Date Collected: 2/22/2018 1:37:34 PM

Analyst:

Data Type: Original

## Replicate Data: R1801453-002 10X

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.600	5.600	0.0755	0.3164	0.0755	1:38:24 PM	Yes
2	5.732	5.732	0.0772	0.3339	0.0773	1:38:53 PM	Yes
Mean:	5.666	5.666	0.0764				
SD:	0.0929	0.0929	0.0013				
%RSD:	1.64%	1.64%	1.64				

Sequence No.: 23

Autosampler Location: 45

Sample ID: R1801453-005

Date Collected: 2/22/2018 1:39:13 PM

Analyst:

Data Type: Original

## Replicate Data: R1801453-005

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.043	0.043	0.0006	0.0025	0.0006	1:40:03 PM	Yes
2	0.043	0.043	0.0006	0.0028	0.0006	1:40:32 PM	Yes
Mean:	0.043	0.043	0.0006				
SD:	0.0001	0.0001	0.0000				
%RSD:	0.31%	0.31%	0.31				

Sequence No.: 24

Autosampler Location: 46

Sample ID: R1801453-006

Date Collected: 2/22/2018 1:40:51 PM

Analyst:

Data Type: Original

## Replicate Data: R1801453-006

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.332	3.332	0.0449	0.1931	0.0449	1:41:41 PM	Yes
2	3.457	3.457	0.0466	0.1987	0.0466	1:42:10 PM	Yes
Mean:	3.394	3.394	0.0457				
SD:	0.0882	0.0882	0.0012				
%RSD:	2.60%	2.60%	2.60				

Sequence No.: 25

Autosampler Location: 47

Sample ID: R1801453-007

Date Collected: 2/22/2018 1:42:29 PM

Analyst:

Data Type: Original

## Replicate Data: R1801453-007

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.046	1.046	0.0141	0.0600	0.0141	1:43:20 PM	Yes
2	1.027	1.027	0.0138	0.0580	0.0139	1:43:48 PM	Yes
Mean:	1.037	1.037	0.0140				
SD:	0.0131	0.0131	0.0002				
%RSD:	1.26%	1.26%	1.26				

Sequence No.: 26  
 Sample ID: R1801453-008  
 Analyst:

Autosampler Location: 48  
 Date Collected: 2/22/2018 1:44:08 PM  
 Data Type: Original

## Replicate Data: R1801453-008

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.188	0.188	0.0025	0.0116	0.0026	1:44:59 PM	Yes
2	0.192	0.192	0.0026	0.0117	0.0026	1:45:28 PM	Yes
Mean:	0.190	0.190	0.0026				
SD:	0.0025	0.0025	0.0000				
%RSD:	1.32%	1.32%	1.32				

Sequence No.: 27  
 Sample ID: R1801453-009  
 Analyst:

Autosampler Location: 49  
 Date Collected: 2/22/2018 1:45:48 PM  
 Data Type: Original

## Replicate Data: R1801453-009

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.615	0.615	0.0083	0.0348	0.0083	1:46:39 PM	Yes
2	0.603	0.603	0.0081	0.0337	0.0081	1:47:07 PM	Yes
Mean:	0.609	0.609	0.0082				
SD:	0.0086	0.0086	0.0001				
%RSD:	1.41%	1.41%	1.41				

Sequence No.: 28  
 Sample ID: R1801453-010  
 Analyst:

Autosampler Location: 50  
 Date Collected: 2/22/2018 1:47:27 PM  
 Data Type: Original

## Replicate Data: R1801453-010

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.048	2.048	0.0276	0.1159	0.0276	1:48:17 PM	Yes
2	2.145	2.145	0.0289	0.1169	0.0289	1:48:46 PM	Yes
Mean:	2.097	2.097	0.0283				
SD:	0.0688	0.0688	0.0009				
%RSD:	3.28%	3.28%	3.28				

Sequence No.: 29  
 Sample ID: R1801453-011  
 Analyst:

Autosampler Location: 51  
 Date Collected: 2/22/2018 1:49:05 PM  
 Data Type: Original

## Replicate Data: R1801453-011

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.343	2.343	0.0316	0.1335	0.0316	1:49:55 PM	Yes
2	2.277	2.277	0.0307	0.1321	0.0307	1:50:24 PM	Yes
Mean:	2.310	2.310	0.0311				
SD:	0.0466	0.0466	0.0006				
%RSD:	2.02%	2.02%	2.02				

Sequence No.: 30  
 Sample ID: R1801453-012  
 Analyst:

Autosampler Location: 52  
 Date Collected: 2/22/2018 1:50:44 PM  
 Data Type: Original

## Replicate Data: R1801453-012

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.636	2.636	0.0355	0.1485	0.0355	1:51:34 PM	Yes
2	2.651	2.651	0.0357	0.1502	0.0358	1:52:03 PM	Yes
Mean:	2.644	2.644	0.0356				
SD:	0.0109	0.0109	0.0001				



%RSD: 0.41% 0.41% 0.41

Sequence No.: 31

Sample ID: CCV

Analyst:

Autosampler Location: 8

Date Collected: 2/22/2018 1:52:23 PM

Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.223	3.223	0.0434	0.1835	0.0435	1:53:13 PM	Yes
2	3.294	3.294	0.0444	0.1871	0.0444	1:53:42 PM	Yes
Mean:	3.258	3.258	0.0439				
SD:	0.0501	0.0501	0.0007				
%RSD:	1.54%	1.54%	1.54				

QC value within limits for Hg 253.7 Recovery = 108.62%  
All analyte(s) passed QC.

Sequence No.: 32

Sample ID: CCB

Analyst:

Autosampler Location: 1

Date Collected: 2/22/2018 1:54:01 PM

Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0001	0.0003	0.0001	1:54:50 PM	Yes
2	0.005	0.005	0.0001	0.0004	0.0001	1:55:19 PM	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.0009	0.0009	0.0000				
%RSD:	18.01%	18.01%	18.01				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 33

Sample ID: R1801453-013

Analyst:

Autosampler Location: 53

Date Collected: 2/22/2018 1:55:38 PM

Data Type: Original

Replicate Data: R1801453-013

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.415	0.415	0.0056	0.0239	0.0056	1:56:27 PM	Yes
2	0.421	0.421	0.0057	0.0231	0.0057	1:56:56 PM	Yes
Mean:	0.418	0.418	0.0056				
SD:	0.0041	0.0041	0.0001				
%RSD:	0.97%	0.97%	0.97				

Sequence No.: 34

Sample ID: R1801453-014

Analyst:

Autosampler Location: 54

Date Collected: 2/22/2018 1:57:16 PM

Data Type: Original

Replicate Data: R1801453-014

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.024	0.024	0.0003	0.0011	0.0003	1:58:05 PM	Yes
2	0.027	0.027	0.0004	0.0020	0.0004	1:58:34 PM	Yes
Mean:	0.025	0.025	0.0003				
SD:	0.0025	0.0025	0.0000				
%RSD:	10.01%	10.01%	10.01				

Sequence No.: 35

Sample ID: R1801453-015

Analyst:

Autosampler Location: 55

Date Collected: 2/22/2018 1:58:53 PM

Data Type: Original

Replicate Data: R1801453-015 *Repeated 5X* Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.95	10.95	0.1475	0.6377	0.1476	1:59:43 PM	Yes
Sample concentration is greater than that of the highest standard.							
2	11.40	11.40	0.1536	0.6501	0.1536	2:00:13 PM	Yes
Sample concentration is greater than that of the highest standard.							
Mean:	11.17	11.17	0.1506				
SD:	0.318	0.318	0.0043				
%RSD:	2.85%	2.85%	2.85				
Sample concentration is greater than that of the highest standard.							

Sequence No.: 36 Autosampler Location: 56  
 Sample ID: R1801453-016 Date Collected: 2/22/2018 2:00:32 PM  
 Analyst: Data Type: Original

Replicate Data: R1801453-016 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.731	0.731	0.0098	0.0400	0.0099	2:01:22 PM	Yes
2	0.721	0.721	0.0097	0.0405	0.0097	2:01:51 PM	Yes
Mean:	0.726	0.726	0.0098				
SD:	0.0065	0.0065	0.0001				
%RSD:	0.90%	0.90%	0.90				

Sequence No.: 37 Autosampler Location: 97  
 Sample ID: R1801453-015 5X Date Collected: 2/22/2018 2:02:10 PM  
 Analyst: Data Type: Original

Replicate Data: R1801453-015 5X Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.276	2.276	0.0307	0.1269	0.0307	2:03:01 PM	Yes
2	2.314	2.314	0.0312	0.1326	0.0312	2:03:29 PM	Yes
Mean:	2.295	2.295	0.0309				
SD:	0.0268	0.0268	0.0004				
%RSD:	1.17%	1.17%	1.17				

Sequence No.: 38 Autosampler Location: 57  
 Sample ID: R1801453-017 Date Collected: 2/22/2018 2:03:50 PM  
 Analyst: Data Type: Original

Replicate Data: R1801453-017 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.528	0.528	0.0071	0.0291	0.0071	2:04:39 PM	Yes
2	0.531	0.531	0.0072	0.0303	0.0072	2:05:08 PM	Yes
Mean:	0.530	0.530	0.0071				
SD:	0.0018	0.0018	0.0000				
%RSD:	0.34%	0.34%	0.34				

Sequence No.: 39 Autosampler Location: 58  
 Sample ID: R1801453-018 Date Collected: 2/22/2018 2:05:27 PM  
 Analyst: Data Type: Original

Replicate Data: R1801453-018 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.834	6.834	0.0921	0.3893	0.0921	2:06:17 PM	Yes
2	6.760	6.760	0.0911	0.3800	0.0911	2:06:46 PM	Yes
Mean:	6.797	6.797	0.0916				
SD:	0.0519	0.0519	0.0007				
%RSD:	0.76%	0.76%	0.76				

Sequence No.: 40  
Sample ID: R1801453-019  
Analyst:

Autosampler Location: 59  
Date Collected: 2/22/2018 2:07:06 PM  
Data Type: Original

Replicate Data: R1801453-019

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.086	2.086	0.0281	0.1155	0.0281	2:07:57 PM	Yes
2	2.098	2.098	0.0283	0.1193	0.0283	2:08:26 PM	Yes
Mean:	2.092	2.092	0.0282				
SD:	0.0086	0.0086	0.0001				
%RSD:	0.41%	0.41%	0.41				

Sequence No.: 41  
Sample ID: MRL  
Analyst:

Autosampler Location: 2  
Date Collected: 2/22/2018 2:08:46 PM  
Data Type: Original

Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.221	0.221	0.0030	0.0125	0.0030	2:09:36 PM	Yes
2	0.220	0.220	0.0030	0.0124	0.0030	2:10:04 PM	Yes
Mean:	0.221	0.221	0.0030				
SD:	0.0008	0.0008	0.0000				
%RSD:	0.35%	0.35%	0.35				

QC value within limits for Hg 253.7 Recovery = 110.47%  
All analyte(s) passed QC.

Sequence No.: 42  
Sample ID: CCV  
Analyst:

Autosampler Location: 8  
Date Collected: 2/22/2018 2:10:23 PM  
Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.384	3.384	0.0456	0.1867	0.0456	2:11:13 PM	Yes
2	3.241	3.241	0.0437	0.1819	0.0437	2:11:42 PM	Yes
Mean:	3.312	3.312	0.0446				
SD:	0.1014	0.1014	0.0014				
%RSD:	3.06%	3.06%	3.06				

QC value greater than the upper limit for Hg 253.7 Recovery = 110.41% *OK 7471B*  
QC Failed. Continue with analysis.

Sequence No.: 43  
Sample ID: CCB  
Analyst:

Autosampler Location: 1  
Date Collected: 2/22/2018 2:12:01 PM  
Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	-0.0004	0.0000	2:12:49 PM	Yes
2	0.003	0.003	0.0000	-0.0001	0.0001	2:13:19 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0024	0.0024	0.0000				
%RSD:	191.42%	191.42%	191.42				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 44  
Sample ID: PBS-308696  
Analyst:

Autosampler Location: 60  
Date Collected: 2/22/2018 2:13:37 PM  
Data Type: Original

Replicate Data: PBS-308696

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	-0.0002	0.0000	2:14:28 PM	Yes
2	0.000	0.000	0.0000	-0.0003	0.0000	2:14:58 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0002	0.0002	0.0000				
%RSD:	63.55%	63.55%	63.55				

Sequence No.: 45

Autosampler Location: 61

Sample ID: LCSS-308696

Date Collected: 2/22/2018 2:15:18 PM

Analyst:

Data Type: Original

Replicate Data: LCSS-308696

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.122	1.122	0.0151	0.0633	0.0151	2:16:08 PM	Yes
2	1.105	1.105	0.0149	0.0618	0.0149	2:16:37 PM	Yes
Mean:	1.114	1.114	0.0150				
SD:	0.0120	0.0120	0.0002				
%RSD:	1.08%	1.08%	1.08				

Sequence No.: 46

Autosampler Location: 62

Sample ID: R1801417-004

Date Collected: 2/22/2018 2:16:57 PM

Analyst:

Data Type: Original

Replicate Data: R1801417-004

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.618	2.618	0.0353	0.1518	0.0353	2:17:47 PM	Yes
2	2.619	2.619	0.0353	0.1495	0.0353	2:18:16 PM	Yes
Mean:	2.618	2.618	0.0353				
SD:	0.0003	0.0003	0.0000				
%RSD:	0.01%	0.01%	0.01				

Sequence No.: 47

Autosampler Location: 2

Sample ID: MRL

Date Collected: 2/22/2018 2:18:35 PM

Analyst:

Data Type: Original

*Not Needed*

Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.235	0.235	0.0032	0.0133	0.0032	2:19:25 PM	Yes
2	0.233	0.233	0.0031	0.0129	0.0032	2:19:53 PM	Yes
Mean:	0.234	0.234	0.0032				
SD:	0.0011	0.0011	0.0000				
%RSD:	0.48%	0.48%	0.48				

QC value within limits for Hg 253.7 Recovery = 116.92%

All analyte(s) passed QC.

Sequence No.: 48

Autosampler Location: 8

Sample ID: CCV

Date Collected: 2/22/2018 2:20:12 PM

Analyst:

Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.314	3.314	0.0447	0.1860	0.0447	2:21:02 PM	Yes
2	3.365	3.365	0.0454	0.1857	0.0454	2:21:30 PM	Yes
Mean:	3.340	3.340	0.0450				
SD:	0.0364	0.0364	0.0005				
%RSD:	1.09%	1.09%	1.09				

QC value greater than the upper limit for Hg 253.7 Recovery = 111.32%

QC Failed. Continue with analysis.

*OK 7471B*

Sequence No.: 49  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 2:21:51 PM  
 Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0001	-0.0001	0.0001	2:22:40 PM	Yes
2	0.002	0.002	0.0000	-0.0000	0.0000	2:23:08 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0016	0.0016	0.0000				
%RSD:	60.49%	60.49%	60.49				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 50  
 Sample ID: R1801417-004S  
 Analyst:

Autosampler Location: 63  
 Date Collected: 2/22/2018 2:23:27 PM  
 Data Type: Original

## Replicate Data: R1801417-004S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.786	3.786	0.0510	0.2172	0.0510	2:24:17 PM	Yes
2	3.881	3.881	0.0523	0.2211	0.0523	2:24:46 PM	Yes
Mean:	3.833	3.833	0.0517				
SD:	0.0673	0.0673	0.0009				
%RSD:	1.768	1.768	1.76				

Sequence No.: 51  
 Sample ID: R1801417-004SD  
 Analyst:

Autosampler Location: 64  
 Date Collected: 2/22/2018 2:25:05 PM  
 Data Type: Original

## Replicate Data: R1801417-004SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.773	3.773	0.0508	0.2191	0.0509	2:25:55 PM	Yes
2	3.778	3.778	0.0509	0.2142	0.0509	2:26:24 PM	Yes
Mean:	3.776	3.776	0.0509				
SD:	0.0036	0.0036	0.0000				
%RSD:	0.10%	0.10%	0.10				

Sequence No.: 52  
 Sample ID: R1801417-006  
 Analyst:

Autosampler Location: 65  
 Date Collected: 2/22/2018 2:26:44 PM  
 Data Type: Original

## Replicate Data: R1801417-006

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.115	0.115	0.0016	0.0058	0.0016	2:27:34 PM	Yes
2	0.119	0.119	0.0016	0.0067	0.0016	2:28:03 PM	Yes
Mean:	0.117	0.117	0.0016				
SD:	0.0024	0.0024	0.0000				
%RSD:	2.03%	2.03%	2.03				

Sequence No.: 53  
 Sample ID: R1801417-008  
 Analyst:

Autosampler Location: 66  
 Date Collected: 2/22/2018 2:28:22 PM  
 Data Type: Original

## Replicate Data: R1801417-008

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	0.141	0.141	0.0019	0.0074	0.0019	2:29:12 PM	Yes
2	0.137	0.137	0.0019	0.0069	0.0019	2:29:42 PM	Yes
Mean:	0.139	0.139	0.0019				
SD:	0.0026	0.0026	0.0000				
%RSD:	1.84%	1.84%	1.84				

Sequence No.: 54

Autosampler Location: 67

Sample ID: R1801417-010

Date Collected: 2/22/2018 2:30:02 PM

Analyst:

Data Type: Original

Replicate Data: R1801417-010

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.199	0.199	0.0027	0.0110	0.0027	2:30:52 PM	Yes
2	0.201	0.201	0.0027	0.0114	0.0027	2:31:21 PM	Yes
Mean:	0.200	0.200	0.0027				
SD:	0.0016	0.0016	0.0000				
%RSD:	0.79%	0.79%	0.79				

Sequence No.: 55

Autosampler Location: 68

Sample ID: R1801417-013

Date Collected: 2/22/2018 2:31:41 PM

Analyst:

Data Type: Original

Replicate Data: R1801417-013

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.773	0.773	0.0104	0.0421	0.0104	2:32:31 PM	Yes
2	0.744	0.744	0.0100	0.0404	0.0101	2:32:59 PM	Yes
Mean:	0.758	0.758	0.0102				
SD:	0.0204	0.0204	0.0003				
%RSD:	2.68%	2.68%	2.68				

Sequence No.: 56

Autosampler Location: 69

Sample ID: R1801417-014

Date Collected: 2/22/2018 2:33:19 PM

Analyst:

Data Type: Original

Replicate Data: R1801417-014

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.205	0.205	0.0028	0.0116	0.0028	2:34:09 PM	Yes
2	0.208	0.208	0.0028	0.0121	0.0028	2:34:37 PM	Yes
Mean:	0.206	0.206	0.0028				
SD:	0.0026	0.0026	0.0000				
%RSD:	1.25%	1.25%	1.25				

Sequence No.: 57

Autosampler Location: 8

Sample ID: CCV

Date Collected: 2/22/2018 2:34:57 PM

Analyst:

Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.411	3.411	0.0460	0.1913	0.0460	2:35:47 PM	Yes
2	3.308	3.308	0.0446	0.1869	0.0446	2:36:16 PM	Yes
Mean:	3.360	3.360	0.0453				
SD:	0.0724	0.0724	0.0010				
%RSD:	2.16%	2.16%	2.16				

QC value greater than the upper limit for Hg 253.7 Recovery = 111.98%

QC Failed. Continue with analysis.

Sequence No.: 58

Autosampler Location: 1

Sample ID: CCB

Date Collected: 2/22/2018 2:36:35 PM

Analyst:

Data Type: Original

-----  
Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.010	0.010	0.0001	0.0013	0.0002	2:37:27 PM	Yes
2	0.005	0.005	0.0001	0.0005	0.0001	2:37:56 PM	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.0035	0.0035	0.0000				
%RSD:	47.58%	47.58%	47.58				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

-----  
Sequence No.: 59

Autosampler Location: 70

Sample ID: R1801417-015

Date Collected: 2/22/2018 2:38:14 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801417-015

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.114	0.114	0.0015	0.0060	0.0016	2:39:04 PM	Yes
2	0.110	0.110	0.0015	0.0062	0.0015	2:39:33 PM	Yes
Mean:	0.112	0.112	0.0015				
SD:	0.0034	0.0034	0.0000				
%RSD:	3.06%	3.06%	3.06				

-----  
Sequence No.: 60

Autosampler Location: 71

Sample ID: R1801451-002

Date Collected: 2/22/2018 2:39:53 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801451-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.054	0.054	0.0007	0.0030	0.0008	2:40:43 PM	Yes
2	0.056	0.056	0.0008	0.0033	0.0008	2:41:11 PM	Yes
Mean:	0.055	0.055	0.0007				
SD:	0.0010	0.0010	0.0000				
%RSD:	1.76%	1.76%	1.76				

-----  
Sequence No.: 61

Autosampler Location: 72

Sample ID: R1801451-007

Date Collected: 2/22/2018 2:41:31 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801451-007

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.290	0.290	0.0039	0.0169	0.0039	2:42:21 PM	Yes
2	0.286	0.286	0.0039	0.0163	0.0039	2:42:50 PM	Yes
Mean:	0.288	0.288	0.0039				
SD:	0.0032	0.0032	0.0000				
%RSD:	1.10%	1.10%	1.10				

-----  
Sequence No.: 62

Autosampler Location: 73

Sample ID: R1801486-001

Date Collected: 2/22/2018 2:43:10 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801486-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.114	0.114	0.0015	0.0068	0.0016	2:44:01 PM	Yes
2	0.116	0.116	0.0016	0.0063	0.0016	2:44:30 PM	Yes
Mean:	0.115	0.115	0.0015				
SD:	0.0011	0.0011	0.0000				
%RSD:	0.95%	0.95%	0.95				

Sequence No.: 63  
 Sample ID: R1801486-002  
 Analyst:

Autosampler Location: 74  
 Date Collected: 2/22/2018 2:44:51 PM  
 Data Type: Original

Replicate Data: R1801486-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.096	0.096	0.0013	0.0050	0.0013	2:45:41 PM	Yes
2	0.104	0.104	0.0014	0.0065	0.0014	2:46:10 PM	Yes
Mean:	0.100	0.100	0.0013				
SD:	0.0060	0.0060	0.0001				
%RSD:	5.97%	5.97%	5.97				

Sequence No.: 64  
 Sample ID: R1801486-003  
 Analyst:

Autosampler Location: 75  
 Date Collected: 2/22/2018 2:46:30 PM  
 Data Type: Original

Replicate Data: R1801486-003

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.027	0.027	0.0004	0.0016	0.0004	2:47:21 PM	Yes
2	0.027	0.027	0.0004	0.0017	0.0004	2:47:49 PM	Yes
Mean:	0.027	0.027	0.0004				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.16%	0.16%	0.16				

Sequence No.: 65  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 2/22/2018 2:48:09 PM  
 Data Type: Original

Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.227	0.227	0.0031	0.0126	0.0031	2:48:58 PM	Yes
2	0.230	0.230	0.0031	0.0132	0.0031	2:49:28 PM	Yes
Mean:	0.228	0.228	0.0031				
SD:	0.0017	0.0017	0.0000				
%RSD:	0.73%	0.73%	0.73				

QC value within limits for Hg 253.7 Recovery = 114.25%  
 All analyte(s) passed QC.

Sequence No.: 66  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 2/22/2018 2:49:46 PM  
 Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.418	3.418	0.0461	0.1918	0.0461	2:50:36 PM	Yes
2	3.400	3.400	0.0458	0.1913	0.0458	2:51:04 PM	Yes
Mean:	3.409	3.409	0.0459				
SD:	0.0129	0.0129	0.0002				
%RSD:	0.38%	0.38%	0.38				

QC value greater than the upper limit for Hg 253.7 Recovery = 113.64%  
 QC Failed. Continue with analysis.

OK 7471B

Sequence No.: 67  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 2/22/2018 2:51:23 PM  
 Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7



Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0004	0.0001	2:52:13 PM	Yes
2	0.008	0.008	0.0001	0.0006	0.0001	2:52:43 PM	Yes
Mean:	0.0067	0.006	0.0001				
SD:	0.0021	0.0021	0.0000				
%RSD:	33.19%	33.19%	33.19				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 68

Sample ID: Sample076

Analyst:

Autosampler Location: 76

Date Collected: 2/22/2018 2:53:01 PM

Data Type: Original

Replicate Data: Sample076

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	-0.0007	0.0000	2:53:51 PM	Yes
2	0.006	0.006	0.0001	0.0005	0.0001	2:54:21 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0055	0.0055	0.0001				
%RSD:	263.99%	263.99%	263.99				

# Preparation Information Benchsheet

Prep Run#: 308695  
Team: Metals/NMANSEN

Prep WorkFlow: HgDigS  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 2/21/18 02:37 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801563-01	MB		0.6g	7471B/Hg				100.00mL			HB: 4 Well: C4 Temperature: 95.0C/95.0C Correction Factor: -1.0C Corr. Temp: 94.0C/94.0C
2	RQ1801563-02	LCS		0.6g	7471B/Hg				100.00mL		1.0000 mL/188166	Digest on HB: 16:05 Digest off HB: 16:35
3	R1801453-001	TP-01 (3.0-4.0)	.01	0.6300g	7471B/Hg				100.00mL			
4	R1801453-002	TP-02 (4.0)	.01	0.6200g	7471B/Hg				100.00mL			
5	R1801453-003	TP-02 (10.0)	.01	0.6400g	7471B/Hg				100.00mL			
6	RQ1801563-03	R1801453-003 MS	.01	0.6100g	7471B/Hg				100.00mL		1.0000 mL/188166	
7	RQ1801563-04	R1801453-003 DMS	.01	0.6500g	7471B/Hg				100.00mL		1.0000 mL/188166	
8	R1801453-005	TP-05 (6.0)	.01	0.6100g	7471B/Hg				100.00mL			
9	R1801453-006	TP-06 (5.5)	.01	0.6200g	7471B/Hg				100.00mL			
10	R1801453-007	TP-06 (9.0)	.01	0.6100g	7471B/Hg				100.00mL			
11	R1801453-008	TP-07 (4.0)	.01	0.6000g	7471B/Hg				100.00mL			
12	R1801453-009	TP-08 (5.5)	.01	0.6200g	7471B/Hg				100.00mL			
13	R1801453-010	TP-09 (7.0)	.01	0.6400g	7471B/Hg				100.00mL			
14	R1801453-011	TP-10 (5.0)	.01	0.6200g	7471B/Hg				100.00mL			
15	R1801453-012	TP-12 (5.0)	.01	0.6300g	7471B/Hg				100.00mL			
16	R1801453-013	TP-13 (1.0-2.0)	.01	0.6300g	7471B/Hg				100.00mL			
17	R1801453-014	TP-13 (7.0)	.01	0.6g	7471B/Hg				100.00mL			
18	R1801453-015	TP-14 (3.5)	.01	0.6g	7471B/Hg				100.00mL			
19	R1801453-016	TP-17 (4.0)	.01	0.6500g	7471B/Hg				100.00mL			
20	R1801453-017	TP-19 (3.0-4.0)	.01	0.6g	7471B/Hg				100.00mL			
21	R1801453-018	TP-20 (9.0)	.01	0.6500g	7471B/Hg				100.00mL			
22	R1801453-019	TP-22 (4.0-5.0)	.01	0.6500g	7471B/Hg				100.00mL			

## Spiking Solutions

Name: Mercury LCSW Metals Hg

Inventory ID 188166

Logbook Ref: 188166

Expires On: 02/22/2018

## Preparation Materials

1:1 HCl Metals Grade M7600004D (187996)

1:1 Nitric Acid Metals Grade M7600003T (185923)

Hot Block Cups 125 mL 1703076 (184034)

Hydroxylamine Hydrochloride Reagent Grade M7600003R (185155)

Potassium Permanganate RG KMnO4 M7600003S (185356)

Thermometer 377 (182584)

# Preparation Information Benchsheet

Prep Run#: 308695  
Team: Metals/NMANSEN

Prep Workflow: HgDigS  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 2/21/18 02:37 PM

## Preparation Steps

Step: Digestion  
Started: 2/21/18 14:37  
Finished: 2/22/18 12:41  
By: NMANSEN  
Comments

Comments: Prepped with curve MTS90088L

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nick [Signature]</u>	Date: <u>2/22/18</u>	<u>Extracts Examined</u> Yes No
Received By: <u>RAOI</u>	Date: <u>2/22/18</u>	

# Preparation Information Benchsheet

Prep Run#: 308696  
Team: Metals/NMANSEN

Prep Workflow: HgDigS  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 2/21/18 02:37 PM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801565-01	MB		0.6g	7471B/Hg				100.00mL			HB: 4 Well: C4 Temperature: 94.0C/95.0C Correction Factor: -1.0C Corr. Temp: 93.0C/94.0C
2	RQ1801565-02	LCS		0.6g	7471B/Hg				100.00mL		1.0000 mL/188166	Digest on HB: 17:13 Digest off HB: 17:43
3	R1801417-004	GEN-SLUDGE-B39-18-1	.01	0.6500g	7471B/Hg				100.00mL			
4	RQ1801565-03	R1801417-004 MS	.01	0.6300g	7471B/Hg				100.00mL		1.0000 mL/188166	
5	RQ1801565-04	R1801417-004 DMS	.01	0.6500g	7471B/Hg				100.00mL		1.0000 mL/188166	
6	R1801417-006	GEN-SOIL-B19-18-1	.01	0.6200g	7471B/Hg				100.00mL			
7	R1801417-008	GEN-SOIL-B7-18-1	.01	0.6500g	7471B/Hg				100.00mL			
8	R1801417-010	GEN-SOIL-B7-18-3	.01	0.6200g	7471B/Hg				100.00mL			
9	R1801417-013	GEN-SOIL-B39-18-1	.01	0.6500g	7471B/Hg				100.00mL			
10	R1801417-014	GEN-SOIL-B39-18-2	.01	0.6300g	7471B/Hg				100.00mL			
11	R1801417-015	GEN-SOIL-B39-18-3	.01	0.6200g	7471B/Hg				100.00mL			
12	R1801451-002	TB-13 (2-3)	.01	0.6200g	7471B/Hg				100.00mL			
13	R1801451-007	TB-16 (4-5)	.01	0.6100g	7471B/Hg				100.00mL			
14	R1801486-001	SB-1 0-4 ft	.02	0.6200g	7471B/Hg				100.00mL			
15	R1801486-002	SB-7 0-4 ft	.02	0.6200g	7471B/Hg				100.00mL			
16	R1801486-003	SB-8 4-6 ft	.02	0.6g	7471B/Hg				100.00mL			

## Spiking Solutions

Name: Mercury LCSW Metals Hg      Inventory ID: 188166      Logbook Ref: 188166      Expires On: 02/22/2018

## Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	1:1 Nitric Acid Metals Grade	M7600003T (185923)	Hot Block Cups	125 mL 1703076 (184034)
Hydroxylamine Hydrochloride Reagent Grade	M7600003R (185155)	Potassium Permanganate RG KMnO4	M7600003S (185356)	Thermometer	377 (182584)

## Preparation Steps

Step: Digestion  
Started: 2/21/18 14:37  
Finished: 2/22/18 12:44  
By: NMANSEN  
Comments

Comments: Prepped with curve M7590088L

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 308696

Team: Metals/NMANSEN

Prep WorkFlow: HgDigS

Prep Method: Method

Status: Prepped

Prep Date/Time: 2/21/18 02:37 PM

## Chain of Custody

Relinquished By: <u>Nicol J</u>	Date: <u>2/22/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAO</u>	Date: <u>2/22/18</u>	

Date: 2/21/18

Analyst: NM

Prep Number: 3086935-308695

Sample	ICP (g)	Hg (g)	Sample Description
MB	1.00	0.60	W-Coarse
LCS	1.00	0.60	W-Coarse
R1801453-001	1.02	0.63	Brown-Fine
R1801453-002	1.01	0.62	Mixed-Medium
-003	1.05	0.64	Brown-Fine
-003MS	1.04	0.61	↓
-003DMS	1.01	0.65	↓
-005	1.01	0.61	Br-F
-006	1.05	0.62	Br-M
-007	1.03	0.61	Br-F
-008	1.02	0.60	Br-F
-009	1.02	0.62	Br-F
-010	1.00	0.64	Br-M
-011	1.03	0.62	Br-M
-012	1.03	0.63	Br-M
-013	1.02	0.63	Mixed-M
-014	1.04	0.60	Br-M
-015	1.00	0.60	Bk-F
-016	1.02	0.65	Br-M
-017	1.03	0.60	Br-M
-018	1.05	0.65	Mx-F
-019	1.02	0.65	Br-M

W = White  
 Br = Brown  
 Bk = Black  
 T = Tan  
 Mx = Mixed colors

C = Coarse  
 M = Medium  
 F = Fine

NM  
 2/21/18

MERCURY CCV / LCSW / MS STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg CCV Stk A	M7600001Q	1000	1.00	100	10	0.5% HNO3	NM 2/15/18	A	M7600003T	2/22/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg CCV StkB	Hg CCV Stk A	10.0	1.00	100	0.100	0.5% HNO3	NM 2/15/18	B	M7600003T	M28
							NM 2/20/18	C	M7600003T	M28
							NM 2/21/18	D	M7600003T	M28
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CCV Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
CCV	Hg CCV Stk B	0.100	3.00	0.75	Soils - Final vol. 100mL after digest.	3.00	Water	NM 2/15/18	I	M26, M31
LCS / MS			1.00	0.25		1.00	Soil	NM 2/15/18	J	M26
					Water - Final Vol of 25 mL before digest.		Soil	NM 2/20/18	K	M26
							Soil	NM 2/21/18	L	M26
									M	
									N	
									O	

MERCURY CALIBRATION / CRDL STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg Cal Stk A	M760000IV	1000	1.00	100	10	0.5% HNO <sub>3</sub>	NM 2/15/18	A	M7600003ST	2/22/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg Cal StkB	Hg Cal Stk A	10.0	1.00	100	0.100	0.5% HNO <sub>3</sub>	NM 2/15/18	B	M7600003ST	M28
							NM 2/20/18	C	M7600003ST	M28
							NM 2/21/18	D	M7600003ST	M28
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CAL Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/Soil	Analyst/Date	Letter ID	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	0.05	Soils- Dilute to 10mL w/ DI. Final vol. 100mL after digest. Water - dilute to Final Vol of 25 mL with DI before digest.	0.200	Water	NM 2/15/18	I	M26, M31
0.500			0.500	0.125		0.500	Soil	NM 2/15/18	J	M26
1.00			1.00	0.25		1.00	Soil	NM 2/20/18	K	M26
2.00			2.00	0.5		2.00	Soil	NM 2/21/18	L	M26
5.00			5.00	1.25		5.00			M	
10.0			10.0	2.5		10.0			N	
CRA			0.200	0.05		0.200			O	



## Sample Dilutions

Analyst: HM

Date 2/22/18

Instrument: FIMSTII

Analysis 7471B

### Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/10	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/10	1	9	1/1000	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/10	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000

### Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 581444 Method/Testcode: 7471B/Hg

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801563-01	Mercury, Total	MB		Soil	0.01 µg/L	0.6 g	0.033 mg/Kg U	1	0.010	0.033			2/22/18 13:24	N	IV
RQ1801563-02	Mercury, Total	LCS		Soil	1.08 µg/L	0.6 g	0.179 mg/Kg	1	0.010	0.033	108		2/22/18 13:25	N	IV
R1801453-001	Mercury, Total	N/A		Soil	3.34 µg/L	0.6300 g	0.530 mg/Kg #	1	0.010	0.031			2/22/18 13:27	N	IV
R1801453-003	Mercury, Total	N/A		Soil	0.26 µg/L	0.6400 g	0.041 mg/Kg #	1	0.010	0.031			2/22/18 13:30	N	IV
RQ1801563-03	Mercury, Total	MS	R1801453-003	Soil	1.34 µg/L	0.6100 g	0.220 mg/Kg #	1	0.010	0.032	109		2/22/18 13:32	N	IV
RQ1801563-04	Mercury, Total	DMS	R1801453-003	Soil	1.35 µg/L	0.6500 g	0.208 mg/Kg #	1	0.010	0.030	109	5	2/22/18 13:33	N	IV
R1801453-002	Mercury, Total	N/A		Soil	5.67 µg/L	0.6200 g	9.14 mg/Kg #	10	0.10	0.32			2/22/18 13:38	N	IV
R1801453-005	Mercury, Total	N/A		Soil	0.04 µg/L	0.6100 g	0.032 mg/Kg # U	1	0.010	0.032			2/22/18 13:40	N	IV
R1801453-006	Mercury, Total	N/A		Soil	3.39 µg/L	0.6200 g	0.547 mg/Kg #	1	0.010	0.032			2/22/18 13:42	N	IV
R1801453-007	Mercury, Total	N/A		Soil	1.04 µg/L	0.6100 g	0.170 mg/Kg #	1	0.010	0.032			2/22/18 13:43	N	IV
R1801453-008	Mercury, Total	N/A		Soil	0.19 µg/L	0.6000 g	0.032 mg/Kg # J	1	0.010	0.033			2/22/18 13:45	N	IV
R1801453-009	Mercury, Total	N/A		Soil	0.61 µg/L	0.6200 g	0.098 mg/Kg #	1	0.010	0.032			2/22/18 13:47	N	IV
R1801453-010	Mercury, Total	N/A		Soil	2.10 µg/L	0.6400 g	0.328 mg/Kg #	1	0.010	0.031			2/22/18 13:48	N	IV
R1801453-011	Mercury, Total	N/A		Soil	2.31 µg/L	0.6200 g	0.373 mg/Kg #	1	0.010	0.032			2/22/18 13:50	N	IV
R1801453-012	Mercury, Total	N/A		Soil	2.64 µg/L	0.6300 g	0.420 mg/Kg #	1	0.010	0.031			2/22/18 13:52	N	IV
R1801453-013	Mercury, Total	N/A		Soil	0.42 µg/L	0.6300 g	0.066 mg/Kg #	1	0.010	0.031			2/22/18 13:56	N	IV
R1801453-014	Mercury, Total	N/A		Soil	0.03 µg/L	0.6 g	0.033 mg/Kg # U	1	0.010	0.033			2/22/18 13:58	N	IV
R1801453-016	Mercury, Total	N/A		Soil	0.73 µg/L	0.6500 g	0.112 mg/Kg #	1	0.010	0.030			2/22/18 14:01	N	IV
R1801453-015	Mercury, Total	N/A		Soil	2.29 µg/L	0.6 g	1.91 mg/Kg #	5	0.05	0.17			2/22/18 14:03	N	IV
R1801453-017	Mercury, Total	N/A		Soil	0.53 µg/L	0.6 g	0.088 mg/Kg #	1	0.010	0.033			2/22/18 14:05	N	IV
R1801453-018	Mercury, Total	N/A		Soil	6.80 µg/L	0.6500 g	1.05 mg/Kg #	1	0.010	0.030			2/22/18 14:06	N	IV
R1801453-019	Mercury, Total	N/A		Soil	2.09 µg/L	0.6500 g	0.322 mg/Kg #	1	0.010	0.030			2/22/18 14:08	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 581445 Method/Testcode: 7471B/Hg

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801565-01	Mercury, Total	MB		Soil	0.00 µg/L	0.6 g	0.033 mg/Kg U	1	0.010	0.033			2/22/18 14:14	N	II
RQ1801565-02	Mercury, Total	LCS		Soil	1.11 µg/L	0.6 g	0.186 mg/Kg	1	0.010	0.033	111		2/22/18 14:16	N	II
R1801417-004	Mercury, Total	N/A		Soil	2.62 µg/L	0.6500 g	0.403 mg/Kg #	1	0.010	0.030			2/22/18 14:18	N	II
RQ1801565-03	Mercury, Total	MS	R1801417-004	Soil	3.83 µg/L	0.6300 g	0.608 mg/Kg #	1	0.010	0.031	130*		2/22/18 14:24	N	II
RQ1801565-04	Mercury, Total	DMS	R1801417-004	Soil	3.78 µg/L	0.6500 g	0.581 mg/Kg #	1	0.010	0.030	116	5	2/22/18 14:26	N	II
R1801417-006	Mercury, Total	N/A		Soil	0.12 µg/L	0.6200 g	0.032 mg/Kg # U	1	0.010	0.032			2/22/18 14:28	N	II
R1801417-008	Mercury, Total	N/A		Soil	0.14 µg/L	0.6500 g	0.030 mg/Kg # U	1	0.010	0.030			2/22/18 14:29	N	II
R1801417-010	Mercury, Total	N/A		Soil	0.20 µg/L	0.6200 g	0.032 mg/Kg #	1	0.010	0.032			2/22/18 14:31	N	II
R1801417-013	Mercury, Total	N/A		Soil	0.76 µg/L	0.6500 g	0.117 mg/Kg #	1	0.010	0.030			2/22/18 14:32	N	II
R1801417-014	Mercury, Total	N/A		Soil	0.21 µg/L	0.6300 g	0.033 mg/Kg #	1	0.010	0.031			2/22/18 14:34	N	II
R1801417-015	Mercury, Total	N/A		Soil	0.11 µg/L	0.6200 g	0.032 mg/Kg # U	1	0.010	0.032			2/22/18 14:39	N	II
R1801451-002	Mercury, Total	N/A		Soil	0.06 µg/L	0.6200 g	0.032 mg/Kg # U	1	0.010	0.032			2/22/18 14:41	N	IV
R1801451-007	Mercury, Total	N/A		Soil	0.29 µg/L	0.6100 g	0.047 mg/Kg #	1	0.010	0.032			2/22/18 14:42	N	IV
R1801486-001	Mercury, Total	N/A		Soil	0.11 µg/L	0.6200 g	0.032 mg/Kg # U	1	0.010	0.032			2/22/18 14:44	N	II
R1801486-002	Mercury, Total	N/A		Soil	0.10 µg/L	0.6200 g	0.032 mg/Kg # U	1	0.010	0.032			2/22/18 14:46	N	II
R1801486-003	Mercury, Total	N/A		Soil	0.03 µg/L	0.6 g	0.033 mg/Kg # U	1	0.010	0.033			2/22/18 14:47	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	973	97	1000	951	95	945	94	P
Barium	10000	10300	103	10000	10300	103	10100	101	P
Cadmium	500	502	100	500	496	99	489	98	P
Mercury	3.00	3.11	104	3.00	3.18	106	3.22	107	CV
Chromium	500	520	104	500	521	104	518	104	P
Lead	500	503	101	500	497	99	491	98	P
Selenium	500	481	96	500	481	96	475	95	P
Silver	500	478	96	500	477	95	473	95	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	942	94	942	94	P
Barium				10000	10100	101	10100	101	P
Cadmium				500	490	98	489	98	P
Mercury				3.00	3.26	109	3.31	110	CV
Chromium				500	520	104	521	104	P
Lead				500	493	99	492	98	P
Selenium				500	471	94	472	94	P
Silver				500	474	95	474	95	P

Comments:

METALS  
-2A-  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	943	94			P
Barium				10000	10100	101			P
Cadmium				500	488	98			P
Chromium				500	521	104			P
Lead				500	489	98			P
Selenium				500	472	94			P
Silver				500	473	95			P

Comments:

METALS

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BLANKS

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic	2.90 U	2.90	U	2.90	U	2.90	U	0.290	U	P
Barium	0.73 U	0.80	J	1.10	J	1.60	J	0.073	U	P
Cadmium	0.17 U	0.17	U	0.17	U	0.17	U	0.020	J	P
Mercury	0.057 U	0.057	U	0.057	U	0.057	U	0.009	U	CV
Chromium	0.91 U	0.91	U	0.91	U	0.91	U	0.091	U	P
Lead	1.94 U	1.94	U	1.94	U	1.94	U	0.194	U	P
Selenium	3.77 U	3.77	U	3.77	U	3.77	U	0.377	U	P
Silver	0.66 U	0.66	U	0.66	U	0.66	U	0.066	U	P

Comments:

METALS

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BLANKS

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		2.90	U	2.90	U					P
Barium		2.20	J	3.10	J					P
Cadmium		0.17	U	0.17	U					P
Mercury		0.057	U							CV
Chromium		0.91	U	0.91	U					P
Lead		1.94	U	1.94	U					P
Selenium		3.77	U	3.77	U					P
Silver		0.66	U	0.66	U					P

Comments:



METALS  
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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/23/2018 End Date: 2/23/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	16:42				X	X		X	X				X						X	X					
STANDARD 1	1.00	16:46				X	X		X	X				X						X	X					
STANDARD 2	1.00	16:49				X	X		X	X				X						X	X					
STANDARD 3	1.00	16:52				X	X		X	X				X						X	X					
STANDARD 4	1.00	16:56				X	X		X	X				X						X	X					
STANDARD 5	1.00	16:59				X	X		X	X				X						X	X					
ICV1	1.00	17:02				X	X		X	X				X						X	X					
ICB1	1.00	17:06				X	X		X	X				X						X	X					
CRDL1	1.00	17:09				X	X		X	X				X						X	X					
ICS-A1	1.00	17:12				X	X		X	X				X						X	X					
ICS-AB1	1.00	17:16				X	X		X	X				X						X	X					
CCV1	1.00	17:19				X	X		X	X				X						X	X					
CCB1	1.00	17:23				X	X		X	X				X						X	X					
PBS	1.00	17:26				X	X		X	X				X						X	X					
LCSS	1.00	17:29				X	X		X	X				X						X	X					
TP-01 (3.0-4.0)	1.00	17:33				X	X		X	X				X						X	X					
TP-02 (4.0)	1.00	17:36				X	X		X	X				X						X	X					
TP-02 (10.0)	1.00	17:39				X	X		X	X				X						X	X					
TP-02 (10.0)S	1.00	17:43				X	X		X	X				X						X	X					
TP-02 (10.0)SD	1.00	17:46				X	X		X	X				X						X	X					
ZZZZZZ	1.00	17:49																								
TP-02 (10.0)L	5.00	17:53				X	X		X	X				X						X	X					
TP-05 (6.0)	1.00	17:56				X	X		X	X				X						X	X					
CCV2	1.00	17:59				X	X		X	X				X						X	X					
CCB2	1.00	18:03				X	X		X	X				X						X	X					
TP-06 (5.5)	1.00	18:06				X	X		X	X				X						X	X					
TP-06 (9.0)	1.00	18:09				X	X		X	X				X						X	X					
TP-07 (4.0)	1.00	18:13				X	X		X	X				X						X	X					
TP-08 (5.5)	1.00	18:16				X	X		X	X				X						X	X					
TP-09 (7.0)	1.00	18:19				X	X		X	X				X						X	X					
TP-10 (5.0)	1.00	18:23				X	X		X	X				X						X	X					
TP-12 (5.0)	1.00	18:26				X	X		X	X				X						X	X					
TP-13 (1.0-2.0)	1.00	18:30				X	X		X	X				X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4)

Instrument ID Number: Agilent ICP Method: P

Start Date: 2/23/2018 End Date: 2/23/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
TP-13 (7.0)	1.00	18:33				X	X		X	X				X					X	X						
TP-14 (3.5)	1.00	18:36				X	X		X	X				X					X	X						
CCV3	1.00	18:40				X	X		X	X				X					X	X						
CCB3	1.00	18:43				X	X		X	X				X					X	X						
TP-17 (4.0)	1.00	18:46				X	X		X	X				X					X	X						
TP-19 (3.0-4.0)	1.00	18:50				X	X		X	X				X					X	X						
TP-20 (9.0)	1.00	18:53				X	X		X	X				X					X	X						
TP-22 (4.0-5.0)	1.00	18:56				X	X		X	X				X					X	X						
CCV4	1.00	19:00				X	X		X	X				X					X	X						
CCB4	1.00	19:03				X	X		X	X				X					X	X						
CRDL2	1.00	19:06				X	X		X	X				X					X	X						
ICS-A2	1.00	19:10				X	X		X	X				X					X	X						
ICS-AB2	1.00	19:13				X	X		X	X				X					X	X						
ZZZZZ	1.00	19:16																								
ZZZZZ	1.00	19:20																								
ZZZZZ	1.00	19:23																								
CCV5	1.00	19:26				X	X		X	X				X					X	X						
CCB5	1.00	19:30				X	X		X	X				X					X	X						

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METALS  
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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 2/22/2018 End Date: 2/22/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
Calib Blank	1.00	01:04																										X			
0.2ppb std	1.00	01:06																										X			
0.5ppb std	1.00	01:07																										X			
1.0ppb std	1.00	01:09																										X			
2.0ppb std	1.00	01:11																										X			
5.0ppb std	1.00	01:12																										X			
10.0ppb std	1.00	01:14																										X			
ICV1	1.00	01:16																										X			
ICB1	1.00	01:17																										X			
CRDL1	1.00	01:19																										X			
CCV1	1.00	01:20																										X			
CCB1	1.00	01:22																										X			
PBS	1.00	01:24																										X			
LCSS	1.00	01:25																										X			
TP-01 (3.0-4.0)	1.00	01:27																										X			
TP-02 (4.0)	1.00	01:29																													
TP-02 (10.0)	1.00	01:30																										X			
TP-02 (10.0)S	1.00	01:32																										X			
TP-02 (10.0)SD	1.00	01:33																										X			
CCV2	1.00	01:35																										X			
CCB2	1.00	01:37																										X			
TP-02 (4.0)	10.00	01:38																										X			
TP-05 (6.0)	1.00	01:40																										X			
TP-06 (5.5)	1.00	01:42																										X			
TP-06 (9.0)	1.00	01:43																										X			
TP-07 (4.0)	1.00	01:45																										X			
TP-08 (5.5)	1.00	01:47																										X			
TP-09 (7.0)	1.00	01:48																										X			
TP-10 (5.0)	1.00	01:50																										X			
TP-12 (5.0)	1.00	01:52																										X			
CCV3	1.00	01:53																										X			
CCB3	1.00	01:55																										X			
TP-13 (1.0-2.0)	1.00	01:56																										X			

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (3.0-4

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 2/22/2018 End Date: 2/22/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
TP-13 (7.0)	1.00	01:58																									X
TP-14 (3.5)	1.00	02:00																									
TP-17 (4.0)	1.00	02:01																									X
TP-14 (3.5)	5.00	02:03																									X
TP-19 (3.0-4.0)	1.00	02:05																									X
TP-20 (9.0)	1.00	02:06																									X
TP-22 (4.0-5.0)	1.00	02:08																									X
CRDL2	1.00	02:10																									X
CCV4	1.00	02:11																									X
CCB4	1.00	02:13																									X

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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PREPARATION LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4.0)

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
LCSS	2/21/2018	1.00	100.0
PBS	2/21/2018	1.00	100.0
TP-01 (3.0-4.0)	2/21/2018	1.02	100.0
TP-02 (4.0)	2/21/2018	1.01	100.0
TP-02 (10.0)	2/21/2018	1.05	100.0
TP-02 (10.0)S	2/21/2018	1.04	100.0
TP-02 (10.0)SD	2/21/2018	1.01	100.0
TP-05 (6.0)	2/21/2018	1.01	100.0
TP-06 (5.5)	2/21/2018	1.05	100.0
TP-06 (9.0)	2/21/2018	1.03	100.0
TP-07 (4.0)	2/21/2018	1.02	100.0
TP-08 (5.5)	2/21/2018	1.02	100.0
TP-09 (7.0)	2/21/2018	1.00	100.0
TP-10 (5.0)	2/21/2018	1.03	100.0
TP-12 (5.0)	2/21/2018	1.03	100.0
TP-13 (1.0-2.0)	2/21/2018	1.02	100.0
TP-13 (7.0)	2/21/2018	1.04	100.0
TP-14 (3.5)	2/21/2018	1.00	100.0
TP-17 (4.0)	2/21/2018	1.02	100.0
TP-19 (3.0-4.0)	2/21/2018	1.03	100.0
TP-20 (9.0)	2/21/2018	1.05	100.0
TP-22 (4.0-5.0)	2/21/2018	1.02	100.0

Comments:

METALS

-13-

PREPARATION LOG

Contract: R1801453

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (3.0-4.0)

Method: CV

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
LCSS	2/21/2018	0.60	100.0
PBS	2/21/2018	0.60	100.0
TP-01 (3.0-4.0)	2/21/2018	0.63	100.0
TP-02 (4.0)	2/21/2018	0.62	100.0
TP-02 (10.0)	2/21/2018	0.64	100.0
TP-02 (10.0)S	2/21/2018	0.61	100.0
TP-02 (10.0)SD	2/21/2018	0.65	100.0
TP-05 (6.0)	2/21/2018	0.61	100.0
TP-06 (5.5)	2/21/2018	0.62	100.0
TP-06 (9.0)	2/21/2018	0.61	100.0
TP-07 (4.0)	2/21/2018	0.60	100.0
TP-08 (5.5)	2/21/2018	0.62	100.0
TP-09 (7.0)	2/21/2018	0.64	100.0
TP-10 (5.0)	2/21/2018	0.62	100.0
TP-12 (5.0)	2/21/2018	0.63	100.0
TP-13 (1.0-2.0)	2/21/2018	0.63	100.0
TP-13 (7.0)	2/21/2018	0.60	100.0
TP-14 (3.5)	2/21/2018	0.60	100.0
TP-17 (4.0)	2/21/2018	0.65	100.0
TP-19 (3.0-4.0)	2/21/2018	0.60	100.0
TP-20 (9.0)	2/21/2018	0.65	100.0
TP-22 (4.0-5.0)	2/21/2018	0.65	100.0

Comments:



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-01 (3.0-4.0)  
**Lab Code:** R1801453-001

**Service Request:** R1801453  
**Date Collected:** 02/15/18 09:09  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	85.2	Percent	-	-	1	02/22/18 11:55	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801453-002

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:15  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	77.2	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-02 (10.0)  
**Lab Code:** R1801453-003

**Service Request:** R1801453  
**Date Collected:** 02/15/18 10:28  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 02/19/18 15:59

**Basis:** Dry

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cyanide, Total	9012B	<b>0.13 J</b>	mg/Kg	0.29	0.02	1	02/27/18 15:16	02/26/18	

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dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-04 (6.0-7.0)  
**Lab Code:** R1801453-004

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:30  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	84.5	Percent	-	-	1	02/22/18 11:55	NA	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-05 (6.0)  
**Lab Code:** R1801453-005

**Service Request:** R1801453  
**Date Collected:** 02/15/18 11:48  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	94.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-06 (5.5)  
**Lab Code:** R1801453-006

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:12  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	84.4	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-06 (9.0)  
**Lab Code:** R1801453-007

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:24  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	79.0	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-07 (4.0)  
**Lab Code:** R1801453-008

**Service Request:** R1801453  
**Date Collected:** 02/15/18 12:50  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	82.9	Percent	-	-	1	02/22/18 11:55	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-08 (5.5)  
**Lab Code:** R1801453-009

**Service Request:** R1801453  
**Date Collected:** 02/15/18 13:15  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	88.7	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-09 (7.0)  
**Lab Code:** R1801453-010

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:00  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	85.8	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-10 (5.0)  
**Lab Code:** R1801453-011

**Service Request:** R1801453  
**Date Collected:** 02/15/18 14:40  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	83.3	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59  
**Basis:** Dry

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Cyanide, Total	9012B	0.21 J	mg/Kg	0.29	0.02	1	02/27/18 15:12	02/26/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-12 (5.0)  
**Lab Code:** R1801453-012

**Service Request:** R1801453  
**Date Collected:** 02/15/18 16:05  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	81.1	Percent	-	-	1	02/22/18 11:55	NA	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801453-013

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:35  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	68.8	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-13 (7.0)  
**Lab Code:** R1801453-014

**Service Request:** R1801453  
**Date Collected:** 02/16/18 08:40  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	87.1	Percent	-	-	1	02/22/18 11:55	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801453-015

**Service Request:** R1801453  
**Date Collected:** 02/16/18 09:20  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	76.6	Percent	-	-	1	02/22/18 11:55	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-17 (4.0)  
**Lab Code:** R1801453-016

**Service Request:** R1801453  
**Date Collected:** 02/16/18 11:00  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	86.8	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-19 (3.0-4.0)  
**Lab Code:** R1801453-017

**Service Request:** R1801453  
**Date Collected:** 02/16/18 12:28  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	85.8	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-20 (9.0)  
**Lab Code:** R1801453-018

**Service Request:** R1801453  
**Date Collected:** 02/16/18 13:05  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	72.0	Percent	-	-	1	02/22/18 11:55	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-22 (4.0-5.0)  
**Lab Code:** R1801453-019

**Service Request:** R1801453  
**Date Collected:** 02/16/18 14:20  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	81.1	Percent	-	-	1	02/22/18 11:55	

# Analytical Results Summary

Instrument Name: R-FIA-05

Analyst: MROGERSON

Analysis Lot: 581817 Method/Testcode: 335.4/CN T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801783-01	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.488 mg/L	1✓					2/27/18 14:39:21	N	II
RQ1801783-01	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.488 mg/L	1✓					2/27/18 14:39:21	N	II
RQ1801783-02	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:40:07	N	II
RQ1801783-02	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:40:07	N	II
RQ1801746-01	Cyanide, Total	MB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:40:55	N	II
RQ1801746-01	Cyanide, Total	MB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:40:55	N	II
RQ1801746-02	Cyanide, Total	LCS		Water	0.10 mg/L	6 mL	0.0988 mg/L	1✓	0.002	0.010	99		2/27/18 14:41:43	N	II
RQ1801746-02	Cyanide, Total	LCS		Water	0.10 mg/L	6 mL	0.0988 mg/L	1✓	0.002	0.010	99		2/27/18 14:41:43	N	II
RQ1801746-03	Cyanide, Total	LCS		Water	0.59 mg/L	6 mL	0.587 mg/L	1✓	0.002	0.010	98		2/27/18 14:42:31	N	II
RQ1801746-03	Cyanide, Total	LCS		Water	0.59 mg/L	6 mL	0.587 mg/L	1✓	0.002	0.010	98		2/27/18 14:42:31	N	II
R1801507-001	Cyanide, Total	N/A		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:43:18	Y	II
RQ1801746-04	Cyanide, Total	MS	R1801507-001	Water	0.10 mg/L	6 mL	0.100 mg/L	1✓	0.002	0.010	100		2/27/18 14:44:05	N	II
RQ1801746-05	Cyanide, Total	DMS	R1801507-001	Water	0.10 mg/L	6 mL	0.102 mg/L	1✓	0.002	0.010	102	2	2/27/18 14:44:52	N	II
R1801507-003	Cyanide, Total	N/A		Water	0.01 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:45:39	Y	II
RQ1801746-06	Cyanide, Total	MS	R1801507-003	Water	0.11 mg/L	6 mL	0.107 mg/L	1✓	0.002	0.010	107		2/27/18 14:46:26	N	II
RQ1801746-07	Cyanide, Total	DMS	R1801507-003	Water	0.11 mg/L	6 mL	0.106 mg/L	1✓	0.002	0.010	106	1	2/27/18 14:47:13	N	II
R1801507-005	Cyanide, Total	N/A		Water	0.04 mg/L	6 mL	0.043 mg/L	1✓	0.002	0.010			2/27/18 14:47:59	N	II
RQ1801783-03	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.490 mg/L	1✓					2/27/18 14:48:46	N	II
RQ1801783-03	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.490 mg/L	1✓					2/27/18 14:48:46	N	II
RQ1801783-04	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:49:33	N	II
RQ1801783-04	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:49:33	N	II
R1801507-006	Cyanide, Total	N/A		Water	0.03 mg/L	6 mL	0.033 mg/L	1✓	0.002	0.010			2/27/18 14:50:19	N	II
R1801508-001	Cyanide, Total	N/A		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:51:06	N	II
R1801508-002	Cyanide, Total	N/A		Water	0.01 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:51:52	N	II
R1801508-004	Cyanide, Total	N/A		Water	0.02 mg/L	6 mL	0.017 mg/L	1✓	0.002	0.010			2/27/18 15:13:45	Y	II
RQ1801746-08	Cyanide, Total	MS	R1801508-004	Water	0.12 mg/L	6 mL	0.117 mg/L	1✓	0.002	0.010	100		2/27/18 14:53:24	N	II
RQ1801746-09	Cyanide, Total	DMS	R1801508-004	Water	0.12 mg/L	6 mL	0.118 mg/L	1✓	0.002	0.010	101	<1	2/27/18 14:54:12	N	II
R1801583-001	Cyanide, Total	N/A		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:55:00	N	II
R1801620-002	Cyanide, Total	N/A		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:55:47	N	II
R1801620-003	Cyanide, Total	N/A		Water	0.02 mg/L	6 mL	0.023 mg/L	1✓	0.002	0.010			2/27/18 14:56:35	N	II
R1801620-004	Cyanide, Total	N/A		Water	0.10 mg/L	6 mL	0.103 mg/L	1✓	0.002	0.010			2/27/18 14:57:22	N	II
RQ1801783-05	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.491 mg/L	1✓					2/27/18 14:58:09	N	II
RQ1801783-05	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.491 mg/L	1✓					2/27/18 14:58:09	N	II
RQ1801783-06	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:58:56	N	II
RQ1801783-06	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1✓	0.002	0.010			2/27/18 14:58:56	N	II
R1801620-005	Cyanide, Total	N/A		Water	0.04 mg/L	6 mL	0.044 mg/L	1✓	0.002	0.010			2/27/18 14:59:43	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-FIA-05

Analyst: MROGERSON

Analysis Lot: 581817 Method/Testcode: 335.4/CN T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801620-006	Cyanide, Total	N/A		Water	0.72 mg/L	6 mL	0.719 mg/L	1/	0.002	0.010			2/27/18 15:00:29	N	II
R1801620-007	Cyanide, Total	N/A		Water	0.02 mg/L	6 mL	0.018 mg/L	1/	0.002	0.010			2/27/18 15:01:16	Y	II
RQ1801746-10	Cyanide, Total	MS	R1801620-007	Water	0.12 mg/L	6 mL	0.116 mg/L	1/	0.002	0.010	98		2/27/18 15:02:03	N	II
RQ1801746-11	Cyanide, Total	DMS	R1801620-007	Water	0.12 mg/L	6 mL	0.117 mg/L	1/	0.002	0.010	100	<1	2/27/18 15:02:49	N	II
R1801529-005	Cyanide, Total	N/A		Drinking Water	0.00 mg/L	6 mL	0.0050 mg/L U	1/	0.0020	0.0050			2/27/18 15:03:36	N	II
R1801572-001	Cyanide, Total	N/A		Water	0.00 mg/L	1.0000 mL	0.060 mg/L U	1/	0.012	0.060			2/27/18 15:04:22	N	IV
RQ1801783-08	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.491 mg/L	1/					2/27/18 15:07:28	N	IV
RQ1801783-08	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.491 mg/L	1/					2/27/18 15:07:28	N	IV
RQ1801783-07	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1/	0.002	0.010			2/27/18 15:08:14	N	IV
RQ1801783-07	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1/	0.002	0.010			2/27/18 15:08:14	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-FIA-05

Analyst: MROGERSON

Analysis Lot: 581818 Method/Testcode: 9012B/CN Tot

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801784-01	Cyanide, Total	CCV		Soil	0.49 mg/L	0.2 g	0.491 mg/L	1					2/27/18 14:58:09	N	IV
RQ1801784-02	Cyanide, Total	CCB		Soil	0.00 mg/L	0.2 g	0.30 mg/Kg U	1	0.02	0.30			2/27/18 14:58:56	N	IV
RQ1801747-01	Cyanide, Total	MB		Soil	0.00 mg/L	0.2 g	0.30 mg/Kg U	1	0.02	0.30			2/27/18 15:05:55	N	IV
RQ1801747-02	Cyanide, Total	LCS		Soil	0.10 mg/L	0.2 g	3.02 mg/Kg	1	0.02	0.30	101		2/27/18 15:06:41	N	IV
RQ1801784-03	Cyanide, Total	CCV		Soil	0.49 mg/L	0.2 g	0.491 mg/L	1					2/27/18 15:07:28	N	IV
RQ1801784-04	Cyanide, Total	CCB		Soil	0.00 mg/L	0.2 g	0.30 mg/Kg U	1	0.02	0.30			2/27/18 15:08:14	N	IV
RQ1801747-03	Cyanide, Total	LCS		Soil	0.61 mg/L	0.2 g	18.2 mg/Kg	1	0.02	0.30	101		2/27/18 15:09:02	N	IV
RQ1801747-04	Cyanide, Total	MS	R1801453-004	Soil	0.10 mg/L	0.2108 g	3.38 mg/Kg	1	0.02	0.34	97		2/27/18 15:11:25	N	IV
RQ1801747-05	Cyanide, Total	DMS	R1801453-004	Soil	0.10 mg/L	0.2581 g	2.74 mg/Kg	1	0.02	0.28	95	21	2/27/18 15:12:12	N	IV
R1801453-012	Cyanide, Total	N/A		Soil	0.01 mg/L	0.2543 g	0.21 mg/Kg J	1	0.02	0.29			2/27/18 15:12:59	N	IV
RQ1801784-07	Cyanide, Total	CCV		Soil	0.49 mg/L	0.2 g	0.492 mg/L	1					2/27/18 15:14:32	N	IV
RQ1801784-08	Cyanide, Total	CCB		Soil	0.00 mg/L	0.2 g	0.30 mg/Kg U	1	0.02	0.30			2/27/18 15:15:19	N	IV
R1801453-004	Cyanide, Total	N/A		Soil	0.00 mg/L	0.2452 g	0.13 mg/Kg J	1	0.02	0.29			2/27/18 15:16:06	Y	IV
R1800823-003	Cyanide, Total	N/A		Soil	4.75 mg/L	0.2163 g	658 mg/Kg	5	0.08	1.4			2/27/18 15:16:54	N	IV
RQ1801784-06	Cyanide, Total	CCV		Soil	0.49 mg/L	0.2 g	0.493 mg/L	1					2/27/18 15:17:40	N	IV
RQ1801784-05	Cyanide, Total	CCB		Soil	0.00 mg/L	0.2 g	0.30 mg/Kg U	1	0.02	0.30			2/27/18 15:18:27	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-FIA-05

Analyst: MROGERSON

Analysis Lot: 581819 Method/Testcode: 9012B/CN Tot ASPHT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801785-01	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.488 mg/L	1 ✓					2/27/18 14:39:21	N	II
RQ1801785-02	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1 ✓	0.002	0.010			2/27/18 14:40:07	N	II
RQ1801745-01	Cyanide, Total	MB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1 ✓	0.002	0.010			2/27/18 14:40:55	N	II
RQ1801745-02	Cyanide, Total	LCS		Water	0.10 mg/L	6 mL	0.0988 mg/L	1 ✓	0.002	0.010	99		2/27/18 14:41:43	N	II
RQ1801745-03	Cyanide, Total	LCS		Water	0.59 mg/L	6 mL	0.587 mg/L	1 ✓	0.002	0.010	98		2/27/18 14:42:31	N	II
RQ1801785-03	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.491 mg/L	1 ✓					2/27/18 14:58:09	N	II
RQ1801785-04	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1 ✓	0.002	0.010			2/27/18 14:58:56	N	II
R1801565-001	Cyanide, Total	N/A		Water	0.00 mg/L	6 mL	0.010 mg/L U	1 ✓	0.002	0.010			2/27/18 15:05:09	N	II
RQ1801785-06	Cyanide, Total	CCV		Water	0.49 mg/L	6 mL	0.491 mg/L	1 ✓					2/27/18 15:07:28	N	II
RQ1801785-05	Cyanide, Total	CCB		Water	0.00 mg/L	6 mL	0.010 mg/L U	1 ✓	0.002	0.010			2/27/18 15:08:14	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



**Creator :** KATRINA MENGES  
**Creation Date :** 2/27/2018 2:26:46 PM  
**Last Modified :** 2/27/2018 3:20:01 PM  
**Description :**

MAR 2/27/18

CN- Pipettes: Thor, Nessy

Cup	Sample ID	MDF	Weight	Sample Type	Comments
S1	1.0 ppm CN			Calibration Standard	
S2	0.50 ppm CN			Calibration Standard	
S3	0.20 ppm CN			Calibration Standard	
S4	0.10 ppm CN			Calibration Standard	
S5	0.05 ppm CN			Calibration Standard	
S6	0.02 ppm CN			Calibration Standard	
S7	0.01 ppm CN			Calibration Standard	
S8	0.005 ppm CN			Calibration Standard	
S9	0.00 ppm CN			Calibration Standard	
S10	ICV TV=0.5			Unknown	
S9	ICB			Unknown	
S7	CRDL - 0.0100			Unknown	
S8	CRDL - 0.0050			Unknown	
S10	CCV			Unknown	
S9	CCB			Unknown	
1	MB-1			Unknown	
2	LCS-LL1			Unknown	
3	LCS-HL1			Unknown	
4	R1801507-001			Unknown	
5	R1801507-001 MS			Unknown	
6	R1801507-001 DMS			Unknown	
7	R1801507-003			Unknown	
8	R1801507-003 MS			Unknown	
9	R1801507-003 DMS			Unknown	
10	R1801507-005			Unknown	
S10	CCV			Unknown	
S9	CCB			Unknown	
11	R1801507-006			Unknown	
12	R1801508-001			Unknown	
13	R1801508-002			Unknown	
14	R1801508-004			Unknown	
15	R1801508-004 MS			Unknown	
16	R1801508-004 DMS			Unknown	
17	R1801583-001			Unknown	
18	R1801620-002			Unknown	
19	R1801620-003			Unknown	
20	R1801620-004			Unknown	
S10	CCV			Unknown	
S9	CCB			Unknown	
21	R1801620-005			Unknown	

22	R1801620-006			Unknown	
23	R1801620-007			Unknown	
24	R1801620-007 MS			Unknown	
25	R1801620-007 DMS			Unknown	
26	R1801529-005			Unknown	
27	R1801572-001			Unknown	
28	R1801565-001			Unknown	
29	MB S			Unknown	
30	LCS-LL S			Unknown	
S10	CCV			Unknown	
S9	CCB			Unknown	
31	LCS-HL S			Unknown	
32	R1800823-003			Unknown	
33	R1801453-004			Unknown	
34	R1801453-004 MS			Unknown	
35	R1801453-004 DMS			Unknown	
36	R1801453-012			Unknown	
14	R1801508-004 RPT			Unknown	
S10	CCV			Unknown	
S9	CCB			Unknown	
33	R1801453-004 RPT			Unknown	
37	R1800823-003 RPT	5.00000		Unknown	
S10	CCV			Unknown	
S9	CCB			Unknown	

Analyte Table

	Cyanide 9012B/SM450
	(mg CN/L)
1.0 ppm CN	1.00000
0.50 ppm CN	0.50000
0.20 ppm CN	0.20000
0.10 ppm CN	0.10000
0.05 ppm CN	0.05000
0.02 ppm CN	0.02000
0.01 ppm CN	0.01000
0.005 ppm CN	0.00500
0.00 ppm CN	0.00000

# Preparation Information Benchsheet

Prep Run#: 308979  
 Team: GenChem/MROGERSON

Prep WorkFlow: Gen Dist CN  
 Prep Method: Method

Status: Prepped  
 Prep Date/Time: 2/26/18 03:40 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801746-01	MB		6mL	335.4/CN T				6.00mL			
2	RQ1801746-01	MB		6mL	9012B/CN Tot				6.00mL			
3	RQ1801746-02	LCS		6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
4	RQ1801746-02	LCS		6mL	9012B/CN Tot				6.00mL		0.0600 mL/185609	
5	RQ1801746-03	LCS		6mL	335.4/CN T				6.00mL		0.3600 mL/185609	
6	RQ1801746-03	LCS		6mL	9012B/CN Tot				6.00mL		0.3600 mL/185609	
7	R1801507-001	AA1800058 E008-GRAB-WA-022018	.03	6mL	335.4/CN T				6.00mL			
8	RQ1801746-04	R1801507-001 MS	.03	6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
9	RQ1801746-05	R1801507-001 DMS	.03	6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
10	R1801507-003	AA1800104 E001-GRAB-WA-022018	.04	6mL	335.4/CN T				6.00mL			
11	RQ1801746-06	R1801507-003 MS	.04	6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
12	RQ1801746-07	R1801507-003 DMS	.04	6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
13	R1801507-005	AA1800107 E003INF-GRAB-WA-022018	.03	6mL	335.4/CN T				6.00mL			
14	R1801507-006	AA1800108 E003PAE-GRAB-WA-022018	.03	6mL	335.4/CN T				6.00mL			
15	R1801508-001	2018000419 W01DSAE-24HR-WA-022018	.01	6mL	335.4/CN T				6.00mL			
16	R1801508-002	2018000421 W001-4HR-WA-022018	.03	6mL	335.4/CN T				6.00mL			
17	R1801508-004	2018000423 W004SAE-4HR-WA-022018	.01	6mL	335.4/CN T				6.00mL			
18	RQ1801746-08	R1801508-004 MS	.01	6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
19	RQ1801746-09	R1801508-004 DMS	.01	6mL	335.4/CN T				6.00mL		0.0600 mL/185609	
20	R1801583-001	B325 Final Eff 24 Hour Comp	.09	6mL	335.4/CN T				6.00mL			
21	R1801620-002	AA1800096 EFTCEW-01-GRAB-WA-022218	.02	6mL	335.4/CN T				6.00mL			
22	R1801620-003	AA1800097 EFTCEW-02-GRAB-WA-022218	.02	6mL	335.4/CN T				6.00mL			
23	R1801620-004	AA1800098 EFTCEW-04-GRAB-WA-022218	.02	6mL	335.4/CN T				6.00mL			
24	R1801620-005	AA1800099 EFTCEW-05-GRAB-WA-022218	.02	6mL	335.4/CN T				6.00mL			
25	R1801620-006	AA1800100 EFTCEW-06-GRAB-WA-022218	.02	6mL	335.4/CN T				6.00mL			

# Preparation Information Benchsheet

Prep Run#: 308979  
 Team: GenChem/MROGERSON

Prep WorkFlow: Gen Dist CN  
 Prep Method: Method

Status: Prepped  
 Prep Date/Time: 2/26/18 03:40 PM

26	R1801620-007	AA1800112 E010-GRAB-WA-022218	.01	6mL	335.4/CN T					6.00mL		
27	RQ1801746-10	R1801620-007 MS	.01	6mL	335.4/CN T					6.00mL	0.0600 mL/185609	
28	RQ1801746-11	R1801620-007 DMS	.01	6mL	335.4/CN T					6.00mL	0.0600 mL/185609	
29	R1801529-005	City of Geneva WTP	.04	6mL	335.4/CN T					6.00mL		
30	R1801572-001	PLCRS - Comp	.15	1mL	9012B/CN Tot					6.00mL		

### Spiking Solutions

Name: Cyanide 10 ppm as CN      Inventory ID: 185609      Logbook Ref: 185609      Expires On: 05/13/2018

### Preparation Steps

Step: Distillation  
 Started: 2/26/18 15:40  
 Finished: 2/26/18 16:10  
 By: MROGERSON

Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_ Spike Witness: GNITAJOUPPI Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes      No

# Preparation Information Benchsheet

Prep Run#: 308980  
 Team: GenChem/MROGERSON

Prep WorkFlow: Gen Dist CN  
 Prep Method: Method

Status: Prepped  
 Prep Date/Time: 2/26/18 03:48 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801747-01	MB		0.2g	9012B/CN Tot				6.00mL			
2	RQ1801747-02	LCS		0.2g	9012B/CN Tot				6.00mL		0.0600 mL/185609	
3	RQ1801747-03	LCS		0.2g	9012B/CN Tot				6.00mL		0.3600 mL/185609	
4	R1800823-003	PT-CN-SOIL 7071-06	.01	0.2163g	9012B/CN Tot				6.00mL			
5	R1801453-004	TP-04 (6.0-7.0)	.02	0.2452g	9012B/CN Tot				6.00mL			
6	RQ1801747-04	R1801453-004 MS	.02	0.2108g	9012B/CN Tot				6.00mL		0.0600 mL/185609	
7	RQ1801747-05	R1801453-004 DMS	.02	0.2581g	9012B/CN Tot				6.00mL		0.0600 mL/185609	
8	R1801453-012	TP-12 (5.0)	.05	0.2543g	9012B/CN Tot				6.00mL			

### Spiking Solutions

Name: Cyanide 10 ppm as CN      Inventory ID: 185609      Logbook Ref: 185609      Expires On: 05/13/2018

### Preparation Steps

Step: Distillation  
 Started: 2/26/18 15:48  
 Finished: 2/26/18 16:18  
 By: MROGERSON  
 Comments:

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_ Spike Witness: GNITAJOUPPI Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes      No

# Preparation Information Benchsheet

Prep Run#: 308981  
 Team: GenChem/MROGERSON

Prep WorkFlow: GenDistCN 12Rec  
 Prep Method: Method

Status: Prepped  
 Prep Date/Time: 2/26/18 03:48 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801745-01	MB		6mL	9012B/CN Tot ASPHT				6.00mL			
2	RQ1801745-02	LCS		6mL	9012B/CN Tot ASPHT				6.00mL		0.0600 mL/185609	
3	RQ1801745-03	LCS		6mL	9012B/CN Tot ASPHT				6.00mL		0.3600 mL/185609	
4	R1801565-001	GDS-0218	.03	6mL	9012B/CN Tot ASPHT				6.00mL			

### Spiking Solutions

Name: Cyanide 10 ppm as CN      Inventory ID: 185609      Logbook Ref: 185609      Expires On: 05/13/2018

### Preparation Steps

Step: Distillation  
 Started: 2/26/18 15:48  
 Finished: 2/26/18 16:18  
 By: MROGERSON

Comments:

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_ Spike Witness: GNITAJOUPPI Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes      No

**ALS Environmental**

**Analyte: Cyanide Micro Distillation**

120°C

Analyst: <u>MAR</u>	0.06 mL Pipet ID: <u>DAISY</u>	pH Paper lot: <u>201315</u>
Date: <u>2/26/2018</u>	0.24 mL Pipet ID: <u>CURLY</u>	PbAcet paper: <u>185447</u>
Balance ID: <u>NA</u>	0.75 mL Pipet ID: <u>CURLY</u>	Releasing Sol'n: <u>186939</u>
1M NaOH: <u>WC161102G</u>	1.5 mL Pipet ID: <u>FRANZ</u>	Digest Tube Lot: <u>816280-7352</u>
Antifoam: <u>NA</u>	6mL Pipet ID: <u>NESSY</u>	Tube volume verif: <u>WC98 - 01/15/18</u>
CdCO <sub>3</sub> : <u>NA</u>	DOD Pipet Cal: <u>NA</u>	Sulfamic Acid Sol'n: <u>WC161100D</u>
Ca(OCl) <sub>2</sub> : <u>WC161068A</u>	ppmCN PrepDate: <u>2/26/2018</u>	Ottawa Sand: <u>NA</u>
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : <u>177058</u>		Spk Witness: <u>G.N.</u>

0.25N NaOH fresh daily

Distill Start Time: 15:40

Distill End Time: 16:10

Still #	Order #	Dist. Vol.	Final Vol.	Method	pH	H2S +/-	Comments
1	MB	6	6	NA	NA		
2	LCS-LL 1	6	6	NA	NA		0.06 mL 10 ppm
3	LCS-HL 1	6	6	NA	NA		0.36 mL 10 ppm
4	R1801507-001	6	6	335.4	> 12		
5	R1801507-001 MS	6	6	335.4	> 12		0.06 mL 10 ppm
6	R1801507-001 DMS	6	6	335.4	> 12		0.06 mL 10 ppm
7	R1801507-003	6	6	335.4	> 12		
8	R1801507-003 MS	6	6	335.4	> 12		0.06 mL 10 ppm
9	R1801507-003 DMS	6	6	335.4	> 12		0.06 mL 10 ppm
10	R1801507-005	6	6	335.4	> 12		
11	R1801507-006	6	6	335.4	> 12		
12	R1801508-001	6	6	335.4	> 12		
13	R1801508-002	6	6	335.4	> 12		
14	R1801508-004	6	6	335.4	> 12		
15	R1801508-004 MS	6	6	335.4	> 12		0.06 mL 10 ppm
16	R1801508-004 DMS	6	6	335.4	> 12		0.06 mL 10 ppm
17	R1801583-001	6	6	335.4	7		
18	R1801620-002	6	6	335.4	> 12		
19	R1801620-003	6	6	335.4	> 12		
20	R1801620-004	6	6	335.4	> 12		
21	R1801620-005	6	6	335.4	> 12		
Distillation Start Time:		15:48		End Time:		16:18	
22	R1801620-006	6	6	335.4	> 12		
23	R1801620-007	6	6	335.4	> 12		
24	R1801620-007 MS	6	6	335.4	> 12		0.06 mL 10 ppm
25	R1801620-007 DMS	6	6	335.4	> 12		0.06 mL 10 ppm
26	R1801529-005	6	6	335.4	> 12		
27	R1801572-001	6	6	9012 B	8		
28	R1801565-001	6	6	9012 B ASPHT	> 12		
29	MB S	0.2	6	NA	NA		
30	LCS-LL S	0.2	6	NA	NA		0.06 mL 10 ppm
31	LCS-HL S	0.2	6	NA	NA		0.36 mL 10 ppm
32	R1800823-003	0.2163	6	9012 B	NA		
33	R1801453-004	0.2452	6	9012 B	NA		
34	R1801453-004 MS	0.2108	6	9012 B	NA		0.06 mL 10 ppm
35	R1801453-004 DMS	0.2581	6	9012 B	NA		0.06 mL 10 ppm
36	R1801453-012	0.2543	6	9012 B	NA		

# Sample Dilutions

Final Volume: 8-10mL - Lachat / FIA

Analyst: MAR  
Instrument: Lachat 8500

Date 2/27/18  
Analysis CN

## Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	0.250	4	4	1/2												
1/3		3	6	1/3												
1/4		2	6	1/4												
1/5		2	8	1/5												
1/10		1	9	1/10												
1/20		1	1	1/2	1	9	1/20									
1/30		3	6	1/3	1	9	1/30									
1/40		1	3	1/4	1	9	1/40									
1/50		1	4	1/5	1	9	1/50									
1/100		1	9	1/10	1	9	1/100									
1/200		1	1	1/2	1	9	1/20	1	9	1/200						
1/300		3	6	1/3	1	9	1/30	1	9	1/300						
1/400		1	3	1/4	1	9	1/40	1	9	1/400						
1/500		1	4	1/5	1	9	1/50	1	9	1/500						
1/1000		1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000		3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000		1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000		1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000		1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

## Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor



Original Run Filename: OM\_2-27-2018\_02-26-46PM.OMN Created: 2/27/2018 2:26:46 PM  
 Original Run Author's Signature: [KATRINA MENGES]  
 Current Run Filename: OM\_2-27-2018\_02-26-46PM.OMN Last Modified: 2/27/2018 3:20:01 PM  
 Current Run Author's Signature: [KATRINA MENGES]  
 Description: 10-204-00-1-A

Sample	Cup No.	Channel 2 Cyanide 9012B/SM4500CN QC8500		Detection Time	MDF
		Conc. (mg CN/L)	Area (V.s)		
1.0 ppm CN	S1	1.00000	12.28946	2/27/2018@2:27:37 PM	
0.50 ppm CN	S2	0.50000	6.28462	2/27/2018@2:28:23 PM	
0.20 ppm CN	S3	0.20000	2.54364	2/27/2018@2:29:10 PM	
0.10 ppm CN	S4	0.10000	1.29865	2/27/2018@2:29:57 PM	
0.05 ppm CN	S5	0.05000	0.64592	2/27/2018@2:30:43 PM	
0.02 ppm CN	S6	0.02000	0.26853	2/27/2018@2:31:30 PM	
0.01 ppm CN	S7	0.01000	0.14237	2/27/2018@2:32:16 PM	
0.005 ppm CN	S8	0.00500	0.06964	2/27/2018@2:33:02 PM	
0.00 ppm CN	S9	0.00000	0.00827	2/27/2018@2:33:49 PM	
DQM Test: Minimum Correlation Coefficient					
Result:		0.99999 > 0.99700			
Message		Pass			
Action					
ICV TV=0.5	S10	0.49024	6.11118	2/27/2018@2:36:14 PM	
Calibration:		Table/Fig. : 1			
ICB	S9	-0.00013	0.01063	2/27/2018@2:37:01 PM	
CRDL - 0.0100	S7	0.01048	0.14258	2/27/2018@2:37:47 PM	
CRDL - 0.0050	S8	0.00472	0.07100	2/27/2018@2:38:34 PM	
CCV	S10	0.48797	6.08303	2/27/2018@2:39:21 PM	
CCB	S9	0.00035	0.01658	2/27/2018@2:40:07 PM	
MB-1	1	0.00084	0.02263	2/27/2018@2:40:55 PM	
LCS-LL1	2	0.09883	1.24174	2/27/2018@2:41:43 PM	
LCS-HL1	3	0.58732	7.31896	2/27/2018@2:42:31 PM	
R1801507-001	4	0.00344	0.05505	2/27/2018@2:43:18 PM	
R1801507-001 MS	5	0.09963	1.25177	2/27/2018@2:44:05 PM	
R1801507-001 DMS	6	0.10184	1.27916	2/27/2018@2:44:52 PM	
R1801507-003	7	0.00625	0.09004	2/27/2018@2:45:39 PM	
R1801507-003 MS	8	0.10680	1.34088	2/27/2018@2:46:26 PM	
R1801507-003 DMS	9	0.10571	1.32740	2/27/2018@2:47:13 PM	
R1801507-005	10	0.04319	0.54954	2/27/2018@2:47:59 PM	
CCV	S10	0.49011	6.10966	2/27/2018@2:48:46 PM	
CCB	S9	0.00020	0.01476	2/27/2018@2:49:33 PM	
R1801507-006	11	0.03305	0.42346	2/27/2018@2:50:19 PM	
R1801508-001	12	0.00126	0.02790	2/27/2018@2:51:06 PM	
R1801508-002	13	0.00932	0.12822	2/27/2018@2:51:52 PM	
R1801508-004	14	0.01602	0.21158	2/27/2018@2:52:38 PM	
R1801508-004 MS	15	0.11691	1.46676	2/27/2018@2:53:24 PM	
R1801508-004 DMS	16	0.11791	1.47914	2/27/2018@2:54:12 PM	
R1801583-001	17	0.00077	0.02188	2/27/2018@2:55:00 PM	
R1801620-002	18	0.00194	0.03634	2/27/2018@2:55:47 PM	
R1801620-003	19	0.02273	0.29504	2/27/2018@2:56:35 PM	
R1801620-004	20	0.10330	1.29742	2/27/2018@2:57:22 PM	
CCV	S10	0.49130	6.12441	2/27/2018@2:58:09 PM	
CCB	S9	-0.00005	0.01167	2/27/2018@2:58:56 PM	
R1801620-005	21	0.04375	0.55652	2/27/2018@2:59:43 PM	
R1801620-006	22	0.71862	8.95245	2/27/2018@3:00:29 PM	
R1801620-007	23	0.01785	0.23437	2/27/2018@3:01:16 PM	
R1801620-007 MS	24	0.11633	1.45949	2/27/2018@3:02:03 PM	
R1801620-007 DMS	25	0.11738	1.47252	2/27/2018@3:02:49 PM	
R1801529-005	26	0.00103	0.02505	2/27/2018@3:03:36 PM	
R1801572-001	27	0.00145	0.03033	2/27/2018@3:04:22 PM	
R1801565-001	28	0.00148	0.03070	2/27/2018@3:05:09 PM	
MB S	29	0.00026	0.01547	2/27/2018@3:05:55 PM	
LCS-LL S	30	0.10063	1.26421	2/27/2018@3:06:41 PM	
CCV	S10	0.49121	6.12337	2/27/2018@3:07:28 PM	
CCB	S9	-0.00012	0.01071	2/27/2018@3:08:14 PM	
LCS-HL S	31	0.60564	7.54696	2/27/2018@3:09:02 PM	

R1800823-003	32	3.73237	46.44607	2/27/2018@3:09:50 PM	
R1801453-004	33	0.00756	0.10625	2/27/2018@3:10:38 PM	
R1801453-004 MS	34	0.10043	1.26163	2/27/2018@3:11:25 PM	
R1801453-004 DMS	35	0.09947	1.24979	2/27/2018@3:12:12 PM	
R1801453-012	36	0.00708	0.10035	2/27/2018@3:12:59 PM	
R1801508-004 RPT	14	0.01725	0.22686	2/27/2018@3:13:45 PM	
CCV	S10	0.49190	6.13194	2/27/2018@3:14:32 PM	
CCB	S9	-0.00007	0.01136	2/27/2018@3:15:19 PM	
R1801453-004 RPT	33	0.00446	0.06778	2/27/2018@3:16:06 PM	
R1800823-003 RPT	37	0.94913	11.82016	2/27/2018@3:16:54 PM	5.00 (4.74565)
CCV	S10	0.49349	6.15164	2/27/2018@3:17:40 PM	
CCB	S9	-0.00170	-0.00887	2/27/2018@3:18:27 PM	

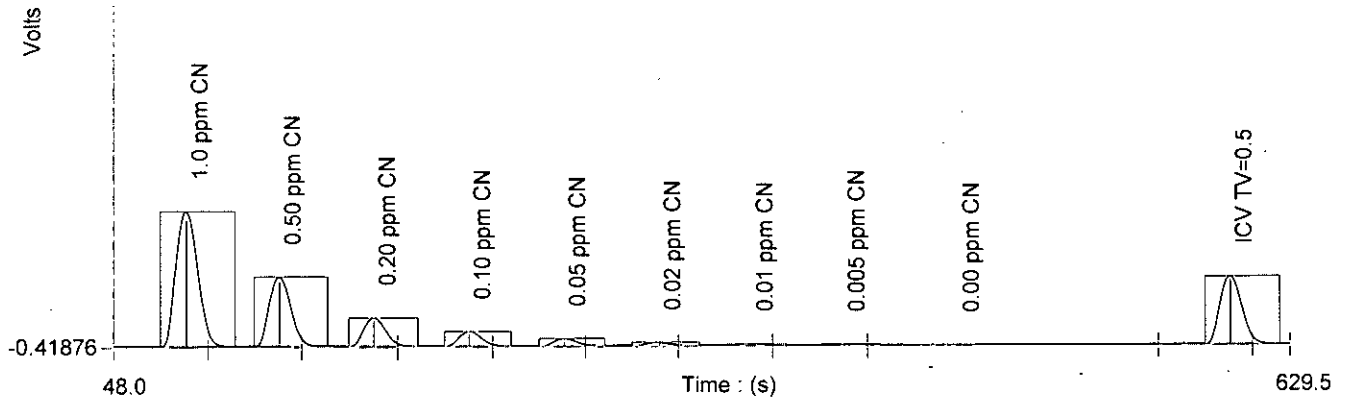
Analyte Properties Table for : OM\_2-27-2018\_02-26-46PM.OMN

Property	Channel 2
	Cyanide 9012B/SM450 0CN QC8500
Concentration Units	mg CN/L
Calibration Fit Type	First Order
Clear Calibration	Yes
Force through Zero	No
Calibration Weighting	1/x
Auto Dilution Trigger	No
% of High Standard	110
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	No
Inject to Peak Start	23
Peak Base Width	38

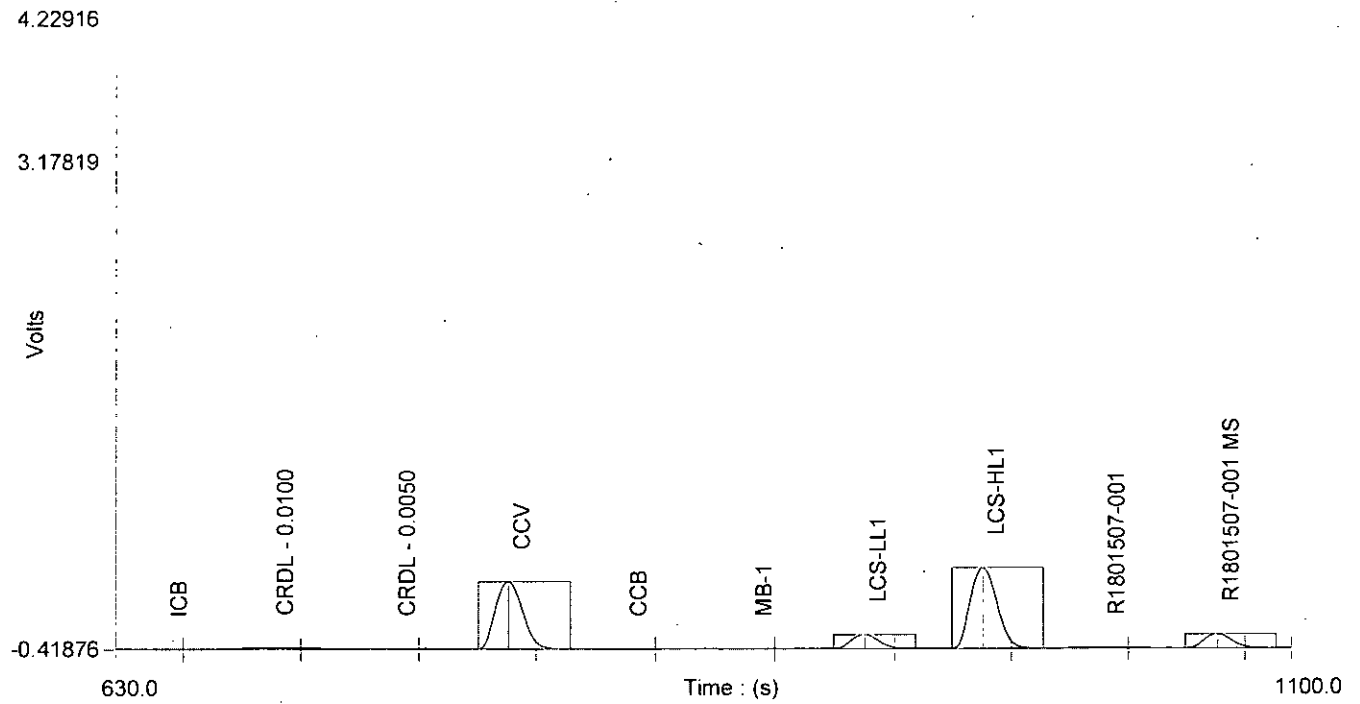
Channel 2 (cyanide) - Set: 1 / 7

4.22916

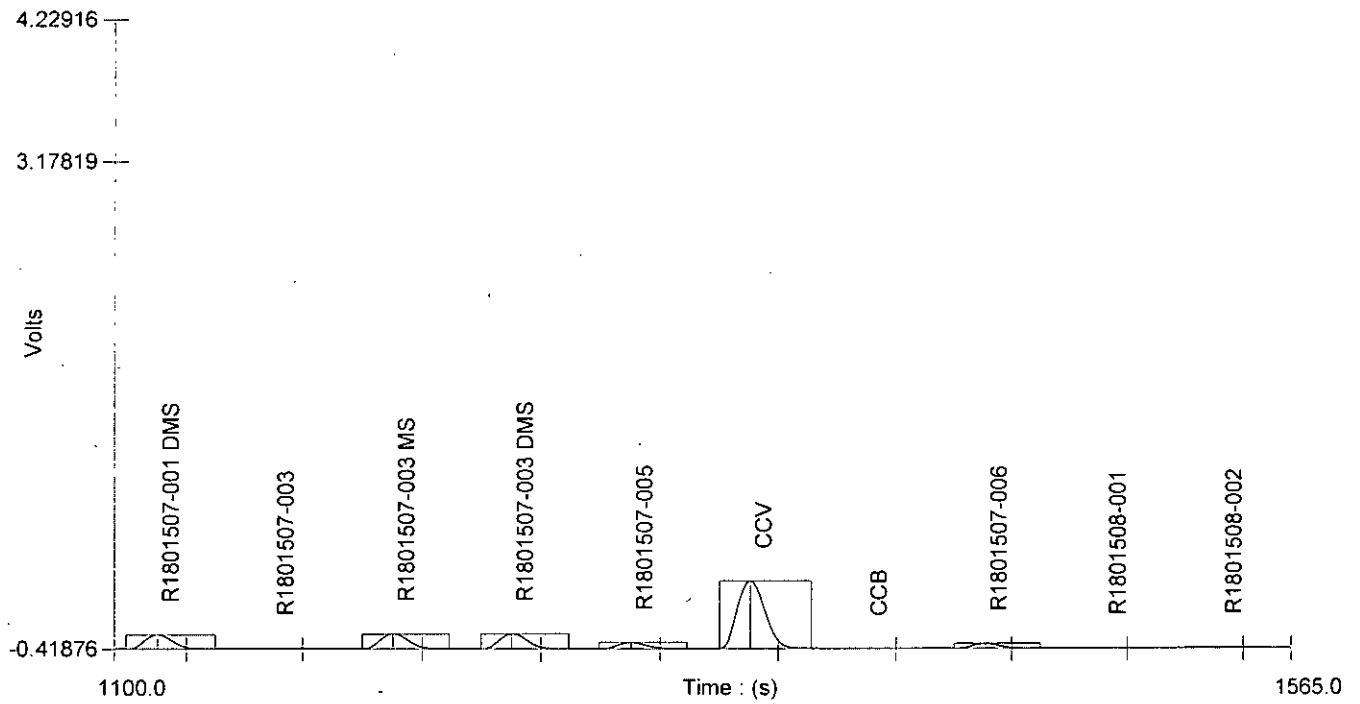
3.17819



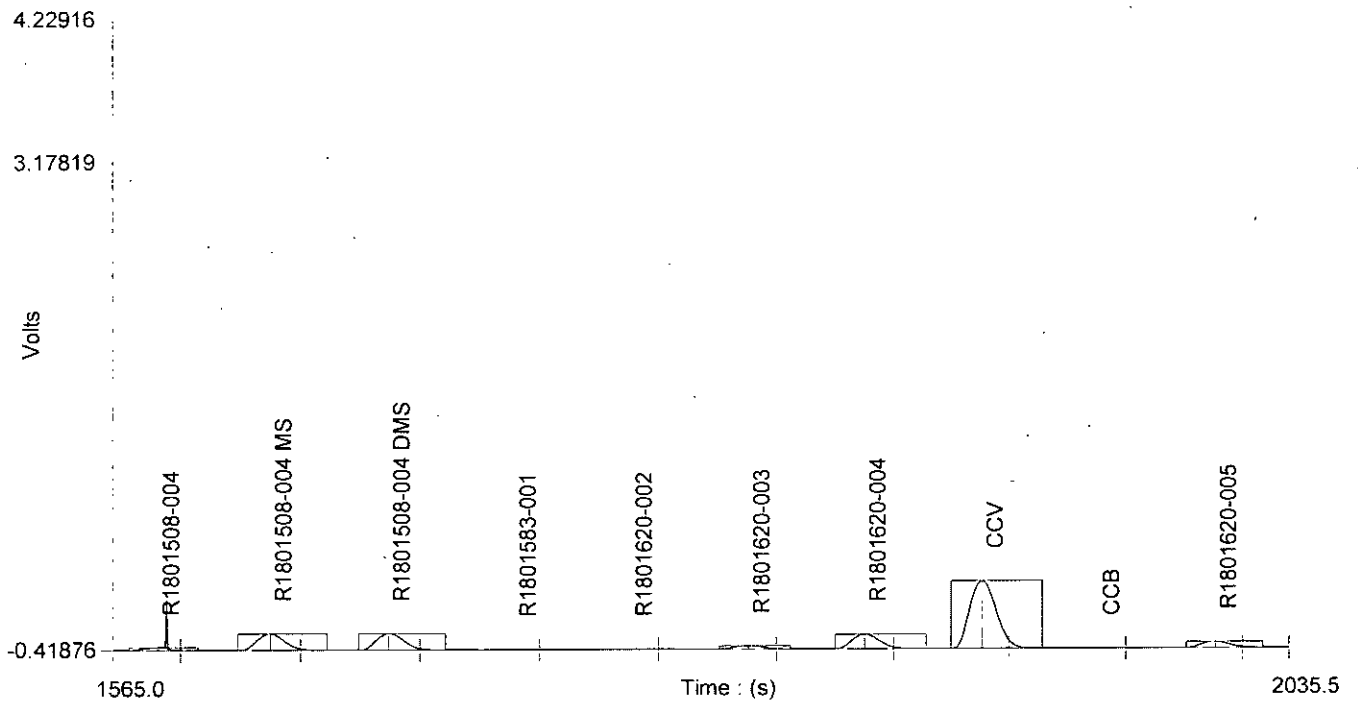
Channel 2 (cyanide) - Set: 2 / 7



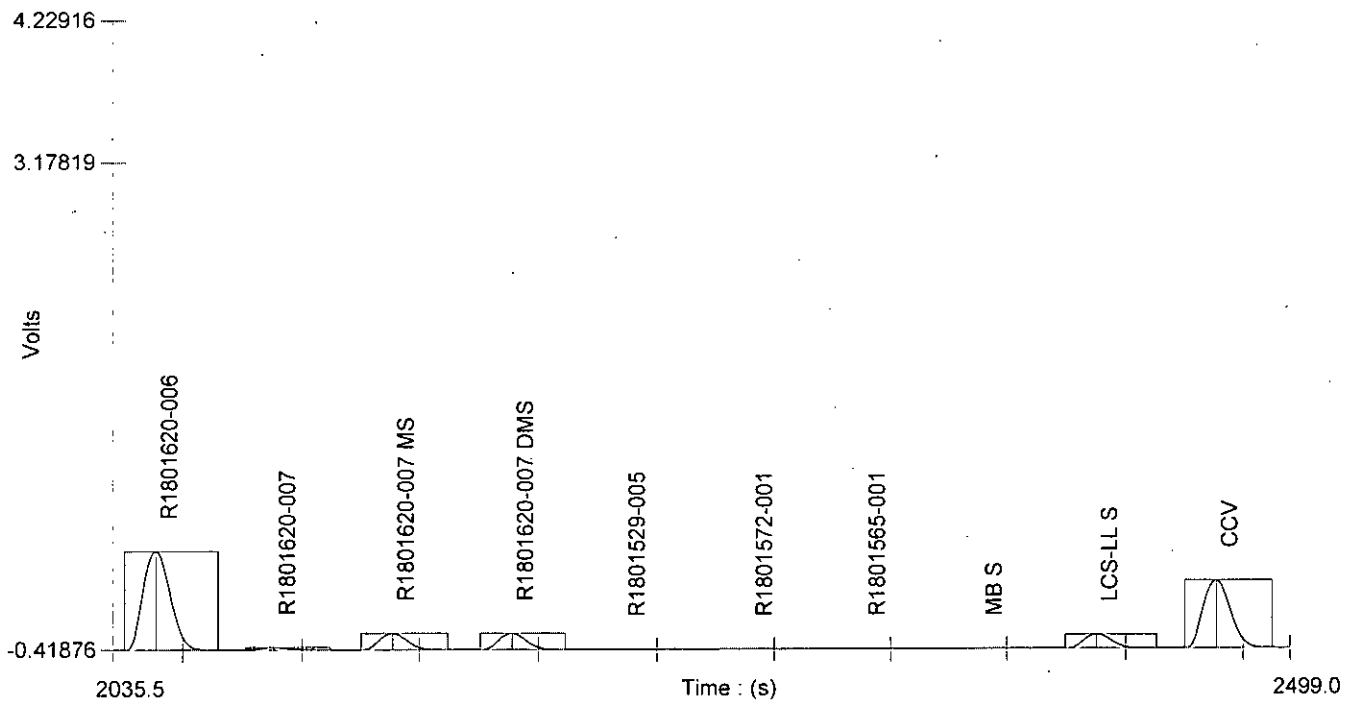
Channel 2 (cyanide) - Set: 3 / 7



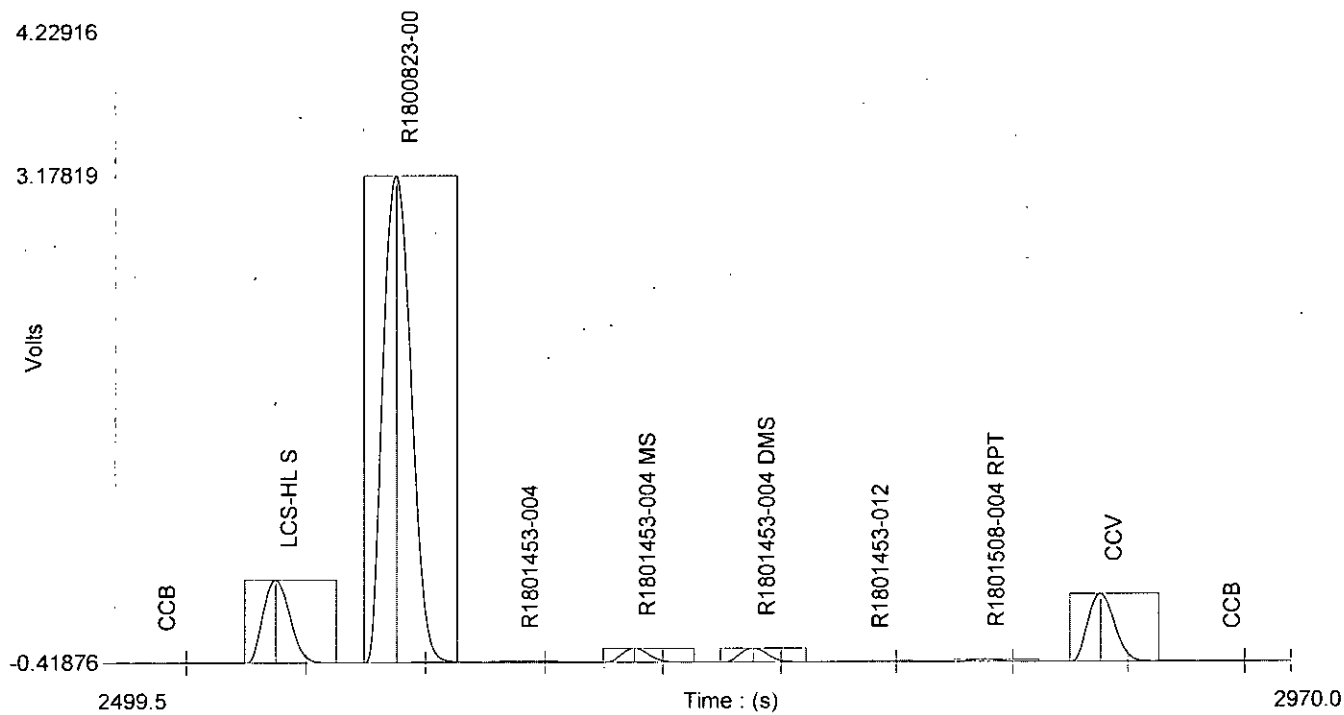
Channel 2 (cyanide) - Set: 4 / 7



Channel 2 (cyanide) - Set: 5 / 7



Channel 2 (cyanide) - Set: 6 / 7



Channel 2 (cyanide) - Set: 7 / 7

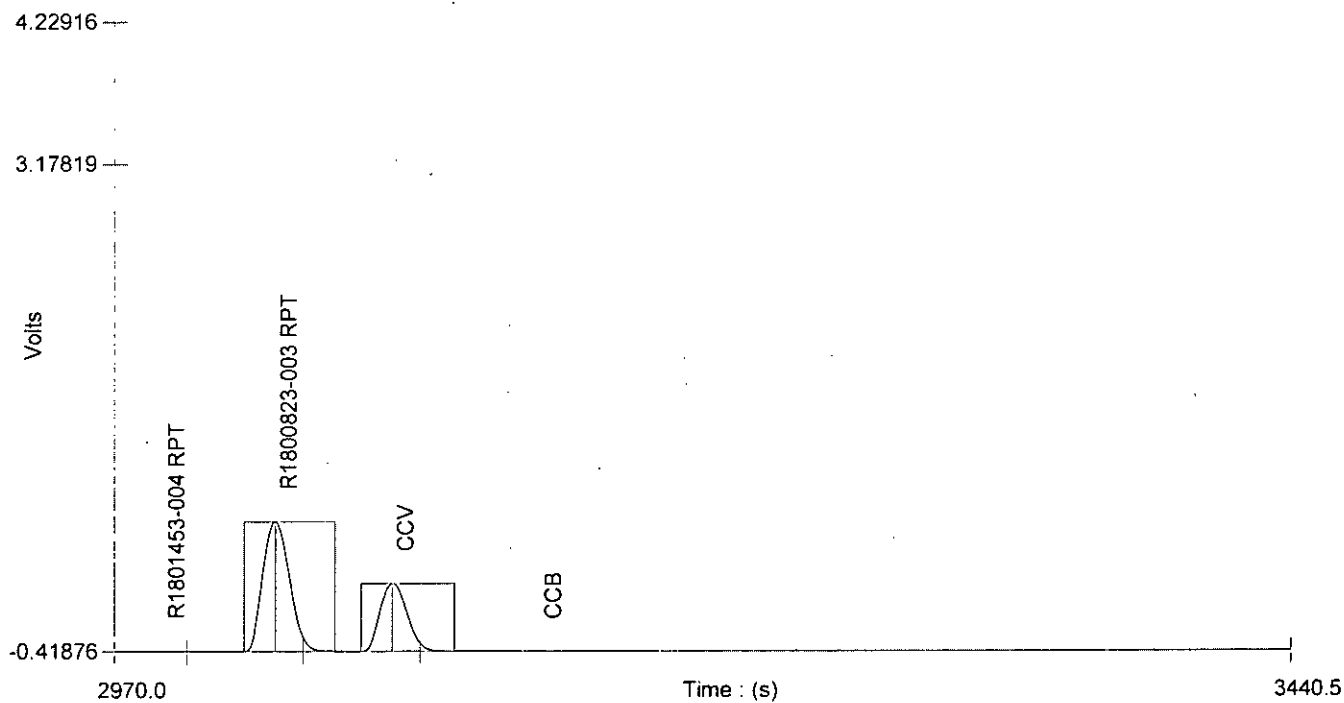
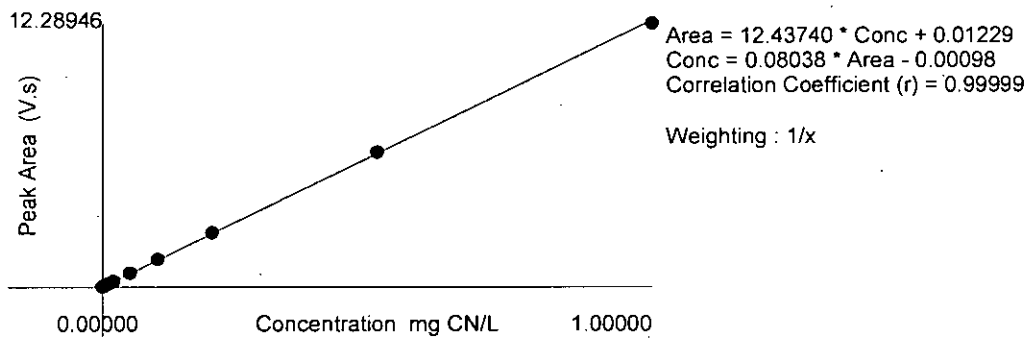


Table : 1 (Cyanide 9012B/SM4500CN QC8500)

	Known Conc. (mg CN/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg CN/L)	Detection Date	Detection Time
1	1.00000	1	12.28946	0.99335	0.0	1.3	0.98685	2/27/2018	2:27:37 PM
2	0.50000	1	6.28462	0.51122	0.0	-0.9	0.50418	2/27/2018	2:28:23 PM
3	0.20000	1	2.54364	0.20716	0.0	-1.8	0.20347	2/27/2018	2:29:10 PM
4	0.10000	1	1.29865	0.10641	0.0	-3.4	0.10340	2/27/2018	2:29:57 PM
5	0.05000	1	0.64592	0.05253	0.0	-1.9	0.05094	2/27/2018	2:30:43 PM
6	0.02000	1	0.26853	0.02129	0.0	-2.9	0.02060	2/27/2018	2:31:30 PM
7	0.01000	1	0.14237	0.01091	0.0	-4.2	0.01046	2/27/2018	2:32:16 PM
8	0.00500	1	0.06964	0.00565	0.0	6.5	0.00461	2/27/2018	2:33:02 PM
9	0.00000	1	0.00827	0.00046			-0.00032	2/27/2018	2:33:49 PM

Figure : 1 (Cyanide 9012B/SM4500CN QC8500)



ALS Environmental  
1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: MAR

Distillation Date: 2/26/18

Analysis: Total Cyanide Instrument: Lachat 8500

Analyzer Date: 2/27/18

<b>PRIMARY STOCKS</b>	<b>Log #</b> <b>Prep/Exp. Dates</b>
-----------------------	--

Standard	185460 Received: 11/08/2017 Expires :2/01/2020
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Reference	185459 Received: 11/08/2017 Expires :2/01/2020
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Working Stock Prep		Stock Soln (mL)	Stock Soln (mg/L)	Final Vol (mL) with 0.25N NaOH in Volumetric	True Value (mg/L)
	Prep Date (Exp 1 week)				
Standard	2/26/2018	1	1000	100	10.0
Reference	2/26/2018	1	1000	100	10.0
Pipet ID:	Curly				

Quality Control	Spiked at prep				
LCS-LL, MS (water)		0.06	10	6	0.10
LCS-HL, (water)		0.36	10	6	0.60
LCS-LL, (soil)		0.06	10	0.2	1.0
LCS-HL, (soil)		0.36	10	0.2	6.0
MS (soil)		0.06	10	~0.2	~1.0
					see bench sheet

Analysis:     Total Cyanide     Instrument: Lachat 8500

<i>Standard Curve Prep</i>	Prepared fresh before use.
Pipet ID:	Curly
DOD pipet Verification:	na

Graduated Disposable Pipet Lot: 19719001

Routine:	Concentration	mLs Carrier Sol'n	mLs 10 mg/L Working Stock (D)
	1.00	9.00	1.00
	0.50	9.50	0.50
	0.20	9.80	0.20
	0.10	1/10 dil'n of 1.00	
	0.050	1/10 dil'n of 0.50	
	0.020	1/10 dil'n of 0.20	
	0.010	1/10 dil'n of 0.10	
	0.005	1/10 dil'n of 0.050	
	0.000	10.0	0.00

<i>Quality Control</i>	Prepared fresh before use	mLs Carrier Sol'n	mL 10 mg/L Reference E
I/CCV, Routine	0.5	9.50	0.5

REAGENTS	Distillation	Log ID	Expiration Date
	Sulfamic Acid	WC161100D	1/3/2019
	H2SO4/MgCl2 Sol'n	186939	1/5/2019
	1 M NaOH	WC161102G	2/2/2019
	0.25 M NaOH	Fresh Daily	Fresh Daily
	Calcium Hypochlorite	WC161068A	5/9/2018
	Na2S2O3	177058	11/2/2021
	Acetate Buffer/ZnAcetate	WC161090E	9/26/2018
	Cadmium Carbonate	180039	3/21/2022
	Antifoam B Emulsion	WC126070C	NA
	Autoanalyzer		
	Buffer	187988	3/13/2018
	Pyridine Barbituric Acid	186601	6/21/2019
	Chloramine-T	185411	11/7/2022

Chloramine-T solution prepared fresh each run: 2.00 g Chloramine-T diluted to 500 g with DI water

Balance ID:

Instrument Log filled in? (Y) (N)



# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot: 581308 Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801264-007	Total Solids	N/A		Soil	82.30 Percent		82.3 Percent	1 -					2/22/18 11:55	N	IV
RQ1801639-01	Total Solids	DUP	R1801264-007	Soil	83.26 Percent		83.3 Percent	1 -				1	2/22/18 11:55	N	IV
R1801264-008	Total Solids	N/A		Soil	80.00 Percent		80.0 Percent	1 -					2/22/18 11:55	N	IV
R1801264-009	Total Solids	N/A		Soil	91.63 Percent		91.6 Percent	1 -					2/22/18 11:55	N	IV
R1801264-010	Total Solids	N/A		Soil	86.38 Percent		86.4 Percent	1 -					2/22/18 11:55	N	IV
R1801264-011	Total Solids	N/A		Soil	85.48 Percent		85.5 Percent	1 -					2/22/18 11:55	N	IV
R1801453-001	Total Solids	N/A		Soil	85.23 Percent		85.2 Percent	1 -					2/22/18 11:55	N	IV
R1801453-002	Total Solids	N/A		Soil	77.21 Percent		77.2 Percent	1 -					2/22/18 11:55	N	IV
R1801453-003	Total Solids	N/A		Soil	81.98 Percent		82.0 Percent	1 -					2/22/18 11:55	N	IV
R1801453-004	Total Solids	N/A		Soil	84.50 Percent		84.5 Percent	1 -					2/22/18 11:55	Y	IV
RQ1801639-02	Total Solids	DUP	R1801453-004	Soil	84.46 Percent		84.5 Percent	1 -				<1	2/22/18 11:55	N	IV
R1801453-005	Total Solids	N/A		Soil	93.99 Percent		94.0 Percent	1 -					2/22/18 11:55	N	IV
R1801453-006	Total Solids	N/A		Soil	84.41 Percent		84.4 Percent	1 -					2/22/18 11:55	N	IV
R1801453-007	Total Solids	N/A		Soil	79.02 Percent		79.0 Percent	1 -					2/22/18 11:55	N	IV
R1801453-008	Total Solids	N/A		Soil	82.93 Percent		82.9 Percent	1 -					2/22/18 11:55	N	IV
R1801453-009	Total Solids	N/A		Soil	88.70 Percent		88.7 Percent	1 -					2/22/18 11:55	N	IV
R1801453-010	Total Solids	N/A		Soil	85.76 Percent		85.8 Percent	1 -					2/22/18 11:55	N	IV
R1801453-011	Total Solids	N/A		Soil	83.28 Percent		83.3 Percent	1 -					2/22/18 11:55	N	IV
R1801453-012	Total Solids	N/A		Soil	81.09 Percent		81.1 Percent	1 -					2/22/18 11:55	N	IV
R1801453-013	Total Solids	N/A		Soil	68.79 Percent		68.8 Percent	1 -					2/22/18 11:55	N	IV
R1801453-014	Total Solids	N/A		Soil	87.13 Percent		87.1 Percent	1 -					2/22/18 11:55	N	IV
R1801453-015	Total Solids	N/A		Soil	76.60 Percent		76.6 Percent	1 -					2/22/18 11:55	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot: 581309 Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801453-016	Total Solids	N/A		Soil	86.81 Percent		86.8 Percent	1 -					2/22/18 11:55	N	IV
R1801453-017	Total Solids	N/A		Soil	85.83 Percent		85.8 Percent	1 -					2/22/18 11:55	N	IV
R1801453-018	Total Solids	N/A		Soil	72.05 Percent		72.0 Percent	1 -					2/22/18 11:55	N	IV
R1801453-019	Total Solids	N/A		Soil	81.12 Percent		81.1 Percent	1 -					2/22/18 11:55	N	IV
R1801339-004	Total Solids	N/A		Soil	22.95 Percent		22.9 Percent	1 -					2/22/18 11:55	N	II
R1801352-001	Total Solids	N/A		Soil	68.62 Percent		68.6 Percent	1 -					2/22/18 11:55	N	IV
R1801352-002	Total Solids	N/A		Soil	85.04 Percent		85.0 Percent	1 -					2/22/18 11:55	Y	IV
RQ1801640-01	Total Solids	DUP	R1801352-002	Soil	84.97 Percent		85.0 Percent	1 -				<1	2/22/18 11:55	N	IV
R1801352-003	Total Solids	N/A		Soil	83.48 Percent		83.5 Percent	1 -					2/22/18 11:55	N	IV
R1801352-004	Total Solids	N/A		Soil	89.44 Percent		89.4 Percent	1 -					2/22/18 11:55	N	IV
R1801352-005	Total Solids	N/A		Soil	88.08 Percent		88.1 Percent	1 -					2/22/18 11:55	N	IV
R1801352-006	Total Solids	N/A		Soil	61.03 Percent		61.0 Percent	1 -					2/22/18 11:55	N	IV
R1801352-007	Total Solids	N/A		Soil	88.03 Percent		88.0 Percent	1 -					2/22/18 11:55	N	IV
R1801352-008	Total Solids	N/A		Soil	81.12 Percent		81.1 Percent	1 -					2/22/18 11:55	N	IV
R1801352-009	Total Solids	N/A		Soil	83.20 Percent		83.2 Percent	1 -					2/22/18 11:55	N	IV
R1801476-001	Total Solids	N/A		Soil	91.42 Percent		91.4 Percent	1 -					2/22/18 11:55	N	I
R1801396-001	Total Solids	N/A		Soil	78.65 Percent		78.6 Percent	1 -					2/22/18 11:55	N	IV
R1801396-002	Total Solids	N/A		Soil	85.41 Percent		85.4 Percent	1 -					2/22/18 11:55	Y	IV
RQ1801640-02	Total Solids	DUP	R1801396-002	Soil	85.22 Percent		85.2 Percent	1 -				<1	2/22/18 11:55	N	IV
R1801396-003	Total Solids	N/A		Soil	72.18 Percent		72.2 Percent	1 -					2/22/18 11:55	N	IV
R1801396-004	Total Solids	N/A		Soil	81.92 Percent		81.9 Percent	1 -					2/22/18 11:55	N	IV
R1801396-005	Total Solids	N/A		Soil	69.29 Percent		69.3 Percent	1 -					2/22/18 11:55	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW  
 Pipet: NA

Date: 2/22/18  
 Time: 11:55

Thermolyne F48025-6048000 Muffle Furnace

Balance ID R-BALANCE-17

Oven ID 7

Class 1 Weight Initial: 10.00

Final: 9.99

**% Volatile Solids:**

$$\% VS = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% Solid = (A - B) / (C - B) * 100$$

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
24	MB	24	B) 1.2700	Dry wgt (A): 1.2900		1.00
			C)	550 wgt (D):		
25	R1801264-007	25	B) 1.2900	Dry wgt (A): 10.5400		82.30
			C) 12.5300	550 wgt (D):		
26	R1801264-007 DUP	26	B) 1.2900	Dry wgt (A): 10.4400		83.26
			C) 12.2800	550 wgt (D):		
27	R1801264-008	27	B) 1.2900	Dry wgt (A): 9.7700		80.00
			C) 11.8900	550 wgt (D):		
28	R1801264-009	28	B) 1.2900	Dry wgt (A): 10.6000		91.63
			C) 11.4500	550 wgt (D):		
29	R1801264-010	29	B) 1.2500	Dry wgt (A): 10.9500		86.38
			C) 12.4800	550 wgt (D):		
30	R1801264-011	30	B) 1.2700	Dry wgt (A): 10.5100		85.48
			C) 12.0800	550 wgt (D):		
31	R1801453-001	31	B) 1.2700	Dry wgt (A): 10.1000		85.23
			C) 11.6300	550 wgt (D):		
32	R1801453-002	32	B) 1.2700	Dry wgt (A): 10.1100		77.21
			C) 12.7200	550 wgt (D):		
33	R1801453-003	33	B) 1.2800	Dry wgt (A): 9.7900		81.98
			C) 11.6600	550 wgt (D):		
34	R1801453-004	34	B) 1.2800	Dry wgt (A): 10.3300		84.50
			C) 11.9900	550 wgt (D):		
35	R1801453-004 DUP	35	B) 1.2800	Dry wgt (A): 9.9200		84.46
			C) 11.5100	550 wgt (D):		
36	R1801453-005	36	B) 1.2900	Dry wgt (A): 11.4600		93.99
			C) 12.1100	550 wgt (D):		
37	R1801453-006	37	B) 1.2900	Dry wgt (A): 10.6000		84.41
			C) 12.3200	550 wgt (D):		
38	R1801453-007	38	B) 1.2700	Dry wgt (A): 9.6700		79.02
			C) 11.9000	550 wgt (D):		
39	R1801453-008	39	B) 1.2900	Dry wgt (A): 10.1800		82.93
			C) 12.0100	550 wgt (D):		
40	R1801453-009	40	B) 1.2800	Dry wgt (A): 11.1700		88.70
			C) 12.4300	550 wgt (D):		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW  
 Pipet: NA  
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID R-BALANCE-17  
 Class 1 Weight Initial: 10.00  
 Date: 2/22/18  
 Time: 11:55  
 Oven ID 7  
 Final: 9.99

**% Volatile Solids:**

$$\% VS = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% Solid = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
41	R1801453-010	41	B) 1.2700	Dry wgt (A): 11.5700		85.76
			C) 13.2800	550 wgt (D):		
42	R1801453-011	42	B) 1.2600	Dry wgt (A): 9.7800		83.28
			C) 11.4900	550 wgt (D):		
43	R1801453-012	43	B) 1.2600	Dry wgt (A): 9.9200		81.09
			C) 11.9400	550 wgt (D):		
44	R1801453-013	44	B) 1.2900	Dry wgt (A): 8.5200		68.79
			C) 11.8000	550 wgt (D):		
45	R1801453-014	45	B) 1.2800	Dry wgt (A): 12.6500		87.13
			C) 14.3300	550 wgt (D):		
46	R1801453-015	46	B) 1.2900	Dry wgt (A): 9.5700		76.60
			C) 12.1000	550 wgt (D):		
47	MB	47	B) 1.2700	Dry wgt (A): 1.2800		1.00
			C)	550 wgt (D):		
48	R1801453-016	48	B) 1.2900	Dry wgt (A): 10.8300		86.81
			C) 12.2800	550 wgt (D):		
49	R1801453-017	49	B) 1.2800	Dry wgt (A): 10.4300		85.83
			C) 11.9400	550 wgt (D):		
50	R1801453-018	50	B) 1.2900	Dry wgt (A): 9.4600		72.05
			C) 12.6300	550 wgt (D):		
51	R1801453-019	51	B) 1.2900	Dry wgt (A): 10.7000		81.12
			C) 12.8900	550 wgt (D):		
52	R1801339-004	52	B) 1.2900	Dry wgt (A): 3.8600		22.95
			C) 12.4900	550 wgt (D):		
53	R1801352-001	53	B) 1.2700	Dry wgt (A): 9.6000		68.62
			C) 13.4100	550 wgt (D):		
54	R1801352-002	54	B) 1.2900	Dry wgt (A): 10.6100		85.04
			C) 12.2500	550 wgt (D):		
55	R1801352-002 DUP	55	B) 1.3000	Dry wgt (A): 10.0600		84.97
			C) 11.6100	550 wgt (D):		
56	R1801352-003	56	B) 1.2900	Dry wgt (A): 9.7800		83.48
			C) 11.4600	550 wgt (D):		
57	R1801352-004	57	B) 1.2800	Dry wgt (A): 12.3700		89.44
			C) 13.6800	550 wgt (D):		
58	R1801352-005	58	B) 1.2900	Dry wgt (A): 11.4900		88.08
			C) 12.8700	550 wgt (D):		
59	R1801352-006	59	B) 1.2900	Dry wgt (A): 7.4600		61.03
			C) 11.4000	550 wgt (D):		
60	R1801352-007	60	B) 1.2800	Dry wgt (A): 12.6800		88.03
			C) 14.2300	550 wgt (D):		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW  
 Pipet: NA

Date: 2/22/18  
 Time: 11:55

Thermolyne F48025-6048000 Muffle Furnace

Balance ID R-BALANCE-17

Oven ID 7

Class 1 Weight Initial: 10.00

Final: 9.99

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)		After Ignition / Dry Weight (g)		% Volatile Solids	% Solids
61	R1801352-008	61	B)	1.3000	Dry wgt (A):	10.5400		81.12
			C)	12.6900	550 wgt (D):			
62	R1801352-009	62	B)	1.3100	Dry wgt (A):	10.7700		83.20
			C)	12.6800	550 wgt (D):			
63	R1801476-001	63	B)	1.2900	Dry wgt (A):	14.1800		91.42
			C)	15.3900	550 wgt (D):			
64	R1801396-001	64	B)	1.2700	Dry wgt (A):	10.5900		78.65
			C)	13.1200	550 wgt (D):			
65	R1801396-002	65	B)	1.2700	Dry wgt (A):	10.2300		85.41
			C)	11.7600	550 wgt (D):			
66	R1801396-002 DUP	66	B)	1.2900	Dry wgt (A):	12.1900		85.22
			C)	14.0800	550 wgt (D):			
67	R1801396-003	67	B)	1.3100	Dry wgt (A):	8.8600		72.18
			C)	11.7700	550 wgt (D):			
68	R1801396-004	68	B)	1.2800	Dry wgt (A):	9.7100		81.92
			C)	11.5700	550 wgt (D):			
69	R1801396-005	69	B)	1.2900	Dry wgt (A):	9.1400		69.29
			C)	12.6200	550 wgt (D):			

ALS Environmental  
 1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: KAW Date: 2/22/18

Analysis: % Solids Instrument: X R-Balance-17  
 \_\_\_\_\_ R-Balance-18

Quality Control:

	Log	Log Book	Log Book	Stock Sol	Stock Sol	Final Vol	True Value
	Book #	Date	Page #	(m/Ls)	(mg/L)	(mLs)	(mg/L)
a) Standards Prep.:							
b) I/CCV Preparation:							
c) LCS Preparation:							
d) Matrix Spike Prep.:							

Instrument log filled in?  (Y)  (N)

Comments:

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Production (optional):

	Start	End	Total
	Time	Time	(minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): \_\_\_\_\_  
 Repeats due to Sample: \_\_\_\_\_  
 Repeats due to Error: \_\_\_\_\_



March 20, 2018

Service Request No:R1801804

Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Accounts Payable,

Enclosed are the results of the sample(s) submitted to our laboratory February 19, 2018  
For your reference, these analyses have been assigned our service request number **R1801804**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.  
dba ALS Environmental



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# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Received:** 02/19/2018

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Five soil samples were received for analysis at ALS Environmental on 02/19/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Semivolatiles by GC/MS:

Method 8270D, 03/02/18, 03/05/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.


Method 8270D, 03/02/2018: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

#### Metals:

No significant anomalies were noted with this analysis.

#### General Chemistry:

No significant anomalies were noted with this analysis.

Approved by 

Date 03/20/2018



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801804-001	TP-02 (4.0)	2/15/2018	1015
R1801804-002	TP-13 (1.0-2.0)	2/16/2018	0835
R1801804-003	TP-14 (3.5)	2/16/2018	0920
R1801804-004	TP-01 (5.0)	2/15/2018	0915
R1801804-005	TP-14 (8.5)	2/16/2018	0935



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49624

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 3

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-18</b>		ANALYSIS REQUESTED (include Method Number and Container Preservative)																															
Project Manager <b>Jeff Danzinger</b>		Request CC		PRESERVATIVE																															
Company/Address <b>Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606</b>		Email <b>jdanzinger@daymail.net</b>		<table border="1"> <tr> <th>NUMBER OF CONTAINERS</th> <th>GCMS/TOC</th> <th>GCMS SV/DAS</th> <th>GC 10/DAG</th> <th>PESTICIDES</th> <th>PCBs</th> <th>METALS, TOTAL</th> <th>METALS, DISSOLVED</th> <th>OTHER</th> <th>REMARKS/ALTERNATE DESCRIPTION</th> </tr> <tr> <td></td> <td><i>GCMS/TOC - 10 - 15 min / (9-17)</i></td> <td><i>GCMS SV/DAS - 20 - 20 min / (9-17)</i></td> <td><i>GC 10/DAG - 20 - 20 min / (9-17)</i></td> <td><i>PESTICIDES - 20 - 20 min / (9-17)</i></td> <td><i>PCBs - 20 - 20 min / (9-17)</i></td> <td><i>METALS, TOTAL - 20 - 20 min / (9-17)</i></td> <td><i>METALS, DISSOLVED - 20 - 20 min / (9-17)</i></td> <td><i>OTHER - 20 - 20 min / (9-17)</i></td> <td><i>Cyanide 9012 100% PL + 10</i></td> </tr> </table>												NUMBER OF CONTAINERS	GCMS/TOC	GCMS SV/DAS	GC 10/DAG	PESTICIDES	PCBs	METALS, TOTAL	METALS, DISSOLVED	OTHER	REMARKS/ALTERNATE DESCRIPTION		<i>GCMS/TOC - 10 - 15 min / (9-17)</i>	<i>GCMS SV/DAS - 20 - 20 min / (9-17)</i>	<i>GC 10/DAG - 20 - 20 min / (9-17)</i>	<i>PESTICIDES - 20 - 20 min / (9-17)</i>	<i>PCBs - 20 - 20 min / (9-17)</i>	<i>METALS, TOTAL - 20 - 20 min / (9-17)</i>	<i>METALS, DISSOLVED - 20 - 20 min / (9-17)</i>	<i>OTHER - 20 - 20 min / (9-17)</i>	<i>Cyanide 9012 100% PL + 10</i>
NUMBER OF CONTAINERS	GCMS/TOC	GCMS SV/DAS	GC 10/DAG	PESTICIDES	PCBs	METALS, TOTAL	METALS, DISSOLVED	OTHER	REMARKS/ALTERNATE DESCRIPTION																										
	<i>GCMS/TOC - 10 - 15 min / (9-17)</i>	<i>GCMS SV/DAS - 20 - 20 min / (9-17)</i>	<i>GC 10/DAG - 20 - 20 min / (9-17)</i>	<i>PESTICIDES - 20 - 20 min / (9-17)</i>	<i>PCBs - 20 - 20 min / (9-17)</i>	<i>METALS, TOTAL - 20 - 20 min / (9-17)</i>	<i>METALS, DISSOLVED - 20 - 20 min / (9-17)</i>	<i>OTHER - 20 - 20 min / (9-17)</i>	<i>Cyanide 9012 100% PL + 10</i>																										
Phone # <b>585-454-0210</b>		Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Sean Kiese</b>																															
CLIENT SAMPLE ID	FOR OFFICE USE ONLY (LAB II)	DATE	TIME	MATRIX	GCMS/TOC	GCMS SV/DAS	GC 10/DAG	PESTICIDES	PCBs	METALS, TOTAL	METALS, DISSOLVED	OTHER	REMARKS/ALTERNATE DESCRIPTION																						
TP-01 (3.0-4.0)		2/15/18	9:09	Soil	X					X																									
TP-02 (4.0)		2/15/18	10:15	Soil	X					X																									
TP-02 (10.0)		2/15/18	10:28	Soil	X					X																									
TP-04 (6.0-7.0)		2/15/18	11:30	Soil			X			X			also do ms/msd																						
TP-05 (6.0)		2/15/18	11:48	Soil	X					X																									
TP-06 (5.5)		2/15/18	12:12	Soil	X					X																									
TP-06 (9.0)		2/15/18	12:24	Soil	X					X																									
TP-07 (4.0)		2/15/18	12:50	Soil	X	X				X																									
TP-08 (5.5)		2/15/18	13:15	Soil	X	X				X																									
TP-09 (7.0)		2/15/18	14:00	Soil	X					X																									
TP-10 (5.0)		2/15/18	14:40	Soil	X	X				X																									
SPECIAL INSTRUCTIONS/COMMENTS Metals RCRA 8  Combine multi-day drop-off of samples for this project into a single report to extend possible					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY)  1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input checked="" type="checkbox"/> 5 day <input type="checkbox"/>  REQUESTED REPORT DATE <b>15 day</b>			REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data			INVOICE INFORMATION See 1/24/18 quote from Christina Gotsch PO # <b>54645-18</b> BILL TO:																								
STATE WHERE SAMPLES WERE COLLECTED					RELINQUISHED BY			RECEIVED BY			RELINQUISHED BY			RECEIVED BY																					
Signature: <i>[Signature]</i>					Signature: <b>B. Bowe</b>			Signature: _____			Signature: _____			Signature: _____																					
Printed Name: <b>Day Environmental</b>					Printed Name: <b>B. Bowe</b>			Printed Name: _____			Printed Name: _____			Printed Name: _____																					
Firm: <b>Day Environmental</b>					Firm: <b>ALS Env</b>			Firm: _____			Firm: _____			Firm: _____																					
Date/Time: <b>2/19/18 15:59</b>					Date/Time: <b>2/19/18 15:59</b>			Date/Time: _____			Date/Time: _____			Date/Time: _____																					

Distribution: White - Lab Copy; Yellow - Return to Originator

**R1801804**  
Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

**5**

**R1801453**  
Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

**5**



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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49625

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Project Name Bulls Head North, Rochester, NY		Project Number 54645-1B		ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager Jeff Danzinger		Report: CC		PRESERVATIVE														
Company/Address Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606		NUMBER OF CONTAINERS	GC/MS VOCs TCL5-DIARY /GR-31 EPA 8260 • EPA 8210 • GUP GC/MS SVOCs EPA 8210 • EPA 8215 GC 10/MS EPA 8210 • EPA 8215 PES THIOIDES EPA 8001 • EPA 8010 PCB2 EPA 8092 • EPA 8093 METALS, TOTAL (List in comments below) METALS, DISCLOSED (List in comments below)	TLC	RCPA	CYANIDE IODIDE	TCLP metals	PRESERVATIVE KEY					REMARKS/ ALTERNATE DESCRIPTION					
Phone # 585-454-0210								Email jdanzinger@daymail.net		0. NONE	1. HCL	2. HNO3	3. H2SO4	4. NaOH	5. Zn Acetate	6. MeOH	7. NaHSO4	8. Other
Sampler's Signature <i>[Signature]</i>								Sampler's Printed Name Sean Keese										
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	TIME	MATRIX	6	7	8	9	10	11	12	13	14	15	16	17	18	
TP-12 (5.0)		2/15/18	16:05	Soil	X	X	X	X	X									
TP-13 (1.0-2.0)		2/16/18	8:35	Soil		X											20 3/1/18	
TP-13 (3.0)		2/14/18	8:40	Soil		X											20 3/1/18	
TP-14 (3.5)		2/11/18	9:20	Soil		X												
TP-17 (4.0)		2/16/18	11:00	Soil		X												
TP-19 (3.0-4.0)		2/16/18	12:28	Soil		X												
TP-20 (9.0)		2/16/18	13:05	Soil		X												
TP-21 (4.0-5.0)		2/16/18	14:20	Soil	X	X		X	X								do not send on PCB only	
TP-01 (6.0)		2/15/18	9:15	Soil													Hold	
TP-03 (3.0)		2/15/18	10:45	Soil													Hold	
TP-14 (8.5)		2/16/18	9:35	Soil													Hold	
SPECIAL INSTRUCTIONS/COMMENTS Metals RCRA 8  Combine multi-day drop-off of samples for this project into a single report to extent possible					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day 15 day REQUESTED REPORT DATE					REPORT REQUIREMENTS I. Results Only X II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries X IV. Data Validation Report with Raw Data N+TDEC Equiv Excl Edata Yes No					INVOICE INFORMATION See 1/24/18 quote from Christina Susano PO # 54645-1B BILL TO: SPINE			
See GAPP <input type="checkbox"/>																		
STATE WHERE SAMPLES WERE COLLECTED																		
RELINQUISHED BY			RECEIVED BY			RELINQUISHED BY			RECEIVED BY			RELINQUISHED BY			RECEIVED BY			
Signature: <i>[Signature]</i>			Signature: <i>[Signature]</i>			Signature:			Signature:			Signature:			Signature:			
Printed Name: <i>[Name]</i>			Printed Name: <i>[Name]</i>			Printed Name:			Printed Name:			Printed Name:			Printed Name:			
Firm: <i>[Firm]</i>			Firm: <i>[Firm]</i>			Firm:			Firm:			Firm:			Firm:			
Date/Time: <i>[Date/Time]</i>			Date/Time: <i>[Date/Time]</i>			Date/Time:			Date/Time:			Date/Time:			Date/Time:			

**R1801804 5**  
Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

**R1801453 5**  
Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

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# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49626

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Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-1B</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE											
Company/Address <b>Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606</b>		Email <b>jdanzinger@daymail.net</b>		NUMBER OF CONTAINERS SCANS VOA & TCL + VOA/CRS GCMS SVOCs GC VOA PESTICIDES METALS: TOTAL METALS: DISSOLVED CYANIDE 9012											
Phone # <b>585 454 0210</b>		Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Jean Reese</b>		PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other _____ REMARKS/ ALTERNATE DESCRIPTION									
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	TIME	MATRIX											
TP-17 (6.0)		2/14/18	11:10	Soil	2									HOLD	
TP-19 (6.0)		2/14/18	12:30	Soil	2									HOLD	
<i>[Handwritten signature]</i>															
SPECIAL INSTRUCTIONS/COMMENTS Metals RCRA 8 Combine multi-day drop-off of samples for this project into a single report to extent possible					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day 15 day REQUESTED REPORT DATE					REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries III. Results + OC and Calibration Summaries IV. Data Validation Report with Raw Data NYDEC Equip. Excl. Estate Yes No					
INVOICE INFORMATION See 1/24/18 quote from Christina Curran PO # 54645-1B BILL TO: SAME															
STATE WHERE SAMPLES WERE COLLECTED															
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY	
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
Printed Name <b>Heather McLean</b>		Printed Name <b>B. Bowe</b>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm <b>Day Environmental</b>		Firm <b>ALS Env</b>		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time <b>2.19.18 / 15:59</b>		Date/Time <b>2/19/18 15:59</b>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	

**R1801804 5**  
Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

**R1801453 5**  
Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Cooler Receipt a.

R1801804 5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



R1801453 5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day

Folder Number R18-1453

Cooler received on 2/20/18 by: e

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N <input type="radio"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="radio"/> N <input type="radio"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="radio"/> N <input type="radio"/>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="radio"/> N <input type="radio"/>

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore <u>5035set</u>	NA

8. Temperature Readings Date: 2/20/18 Time: 0850 ID: IR# IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.2</u>	<u>2.1</u>						
Correction Factor (°C)	<u>+1.0</u>	<u>-</u>						
Corrected Temp (°C)	<u>5.2</u>	<u>2.7</u>						
Temp from: Type of bottle	<u>cont. bottle</u>	<u>-</u>						
Within 0-6°C?	<u>Y</u> N	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by e on 2/20/18 at 0855  
5035 samples placed in storage location: F-09 by e on 2/20/18 at 0900

Cooler Breakdown: Date: 2/20/18 Time: 1658 by: slw

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated QVA

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
<2		HNO <sub>3</sub>								
<2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		Zn Acetate	-	-						
		HCl	**	**						

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 096817-152  
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: slw  
PC Secondary Review: slw 2/22/18 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter  
P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r15.doc 20 of 168 10/11/17

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801804

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1801804-001.01</b>					
		3/2/2018	1632	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
<b>R1801804-002.01</b>					
		3/2/2018	1632	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
<b>R1801804-003.01</b>					
		3/2/2018	1631	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
<b>R1801804-004.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		3/2/2018	1631	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
		3/5/2018	1626	In Lab / NMANSEN	
		3/6/2018	1541	R-A01 / NMANSEN	
<b>R1801804-004.02</b>					
	ALS SOP				
		3/2/2018	1633	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
<b>R1801804-005.01</b>					
	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		3/2/2018	1631	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
		3/5/2018	1625	In Lab / NMANSEN	
		3/6/2018	1541	R-A01 / NMANSEN	
<b>R1801804-005.02</b>					
	8270D				
		3/2/2018	1633	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	
<b>R1801804-005.03</b>					
	ALS SOP				
		3/2/2018	1633	SMO / DWARD	
		3/2/2018	1634	R-002 / DWARD	



# Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
---	---



### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801804

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801804

**Sample Name:** TP-01 (5.0)  
**Lab Code:** R1801804-004  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN

**Analyzed By**

NMANSEN  
NMANSEN  
KWONG

**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

NMANSEN  
NMANSEN  
JMISIUREWICZ

**Analyzed By**

NMANSEN  
NMANSEN  
JMISIUREWICZ  
KWONG





## INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



## Sample Results

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** 02/16/18 09:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	03/05/18 14:18	3/2/18	
2,3,4,6-Tetrachlorophenol	400 U	400	100	1	03/05/18 14:18	3/2/18	
2,4,5-Trichlorophenol	400 U	400	100	1	03/05/18 14:18	3/2/18	
2,4,6-Trichlorophenol	400 U	400	110	1	03/05/18 14:18	3/2/18	
2,4-Dichlorophenol	400 U	400	83	1	03/05/18 14:18	3/2/18	
2,4-Dimethylphenol	400 U	400	77	1	03/05/18 14:18	3/2/18	
2,4-Dinitrophenol	2100 U	2100	75	1	03/05/18 14:18	3/2/18	
2,4-Dinitrotoluene	400 U	400	110	1	03/05/18 14:18	3/2/18	
2,6-Dinitrotoluene	400 U	400	150	1	03/05/18 14:18	3/2/18	
2-Chloronaphthalene	400 U	400	89	1	03/05/18 14:18	3/2/18	
2-Chlorophenol	400 U	400	98	1	03/05/18 14:18	3/2/18	
2-Methylnaphthalene	400 U	400	91	1	03/05/18 14:18	3/2/18	
2-Methylphenol	400 U	400	98	1	03/05/18 14:18	3/2/18	
2-Nitroaniline	2100 U	2100	120	1	03/05/18 14:18	3/2/18	
2-Nitrophenol	400 U	400	92	1	03/05/18 14:18	3/2/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	03/05/18 14:18	3/2/18	
3- and 4-Methylphenol Coelution	400 U	400	110	1	03/05/18 14:18	3/2/18	
3-Nitroaniline	2100 U	2100	87	1	03/05/18 14:18	3/2/18	
4,6-Dinitro-2-methylphenol	2100 U	2100	87	1	03/05/18 14:18	3/2/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	03/05/18 14:18	3/2/18	
4-Chloro-3-methylphenol	400 U	400	92	1	03/05/18 14:18	3/2/18	
4-Chloroaniline	400 U	400	48	1	03/05/18 14:18	3/2/18	
4-Chlorophenyl Phenyl Ether	400 U	400	96	1	03/05/18 14:18	3/2/18	
4-Nitroaniline	2100 U	2100	89	1	03/05/18 14:18	3/2/18	
4-Nitrophenol	2100 U	2100	240	1	03/05/18 14:18	3/2/18	
Acenaphthene	400 U	400	89	1	03/05/18 14:18	3/2/18	
Acenaphthylene	400 U	400	82	1	03/05/18 14:18	3/2/18	
Acetophenone	400 U	400	94	1	03/05/18 14:18	3/2/18	
Anthracene	400 U	400	78	1	03/05/18 14:18	3/2/18	
Atrazine	400 U	400	110	1	03/05/18 14:18	3/2/18	
Benz(a)anthracene	400 U	400	71	1	03/05/18 14:18	3/2/18	
Benzaldehyde	2100 U	2100	96	1	03/05/18 14:18	3/2/18	
Benzo(a)pyrene	400 U	400	81	1	03/05/18 14:18	3/2/18	
Benzo(b)fluoranthene	400 U	400	74	1	03/05/18 14:18	3/2/18	
Benzo(g,h,i)perylene	400 U	400	92	1	03/05/18 14:18	3/2/18	
Benzo(k)fluoranthene	400 U	400	90	1	03/05/18 14:18	3/2/18	
Biphenyl	400 U	400	94	1	03/05/18 14:18	3/2/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	99	1	03/05/18 14:18	3/2/18	
Bis(2-chloroethoxy)methane	400 U	400	92	1	03/05/18 14:18	3/2/18	
Bis(2-chloroethyl) Ether	400 U	400	73	1	03/05/18 14:18	3/2/18	
Bis(2-ethylhexyl) Phthalate	610 U	610	560	1	03/05/18 14:18	3/2/18	
Butyl Benzyl Phthalate	400 U	400	77	1	03/05/18 14:18	3/2/18	
Caprolactam	400 U	400	90	1	03/05/18 14:18	3/2/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** 02/16/18 09:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	400 U	400	100	1	03/05/18 14:18	3/2/18	
Chrysene	400 U	400	79	1	03/05/18 14:18	3/2/18	
Di-n-butyl Phthalate	400 U	400	140	1	03/05/18 14:18	3/2/18	
Di-n-octyl Phthalate	400 U	400	130	1	03/05/18 14:18	3/2/18	
Dibenz(a,h)anthracene	400 U	400	73	1	03/05/18 14:18	3/2/18	
Dibenzofuran	400 U	400	82	1	03/05/18 14:18	3/2/18	
Diethyl Phthalate	400 U	400	220	1	03/05/18 14:18	3/2/18	
Dimethyl Phthalate	400 U	400	120	1	03/05/18 14:18	3/2/18	
Fluoranthene	400 U	400	95	1	03/05/18 14:18	3/2/18	
Fluorene	400 U	400	110	1	03/05/18 14:18	3/2/18	
Hexachlorobenzene	400 U	400	94	1	03/05/18 14:18	3/2/18	
Hexachlorobutadiene	400 U	400	68	1	03/05/18 14:18	3/2/18	
Hexachlorocyclopentadiene	400 U	400	67	1	03/05/18 14:18	3/2/18	
Hexachloroethane	400 U	400	71	1	03/05/18 14:18	3/2/18	
Indeno(1,2,3-cd)pyrene	400 U	400	89	1	03/05/18 14:18	3/2/18	
Isophorone	400 U	400	87	1	03/05/18 14:18	3/2/18	
N-Nitrosodi-n-propylamine	400 U	400	73	1	03/05/18 14:18	3/2/18	
N-Nitrosodiphenylamine	400 U	400	180	1	03/05/18 14:18	3/2/18	
Naphthalene	400 U	400	83	1	03/05/18 14:18	3/2/18	
Nitrobenzene	400 U	400	83	1	03/05/18 14:18	3/2/18	
Pentachlorophenol (PCP)	2100 U	2100	140	1	03/05/18 14:18	3/2/18	
Phenanthrene	400 U	400	84	1	03/05/18 14:18	3/2/18	
Phenol	400 U	400	88	1	03/05/18 14:18	3/2/18	
Pyrene	400 U	400	79	1	03/05/18 14:18	3/2/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	13 - 128	03/05/18 14:18	
2-Fluorobiphenyl	46	10 - 102	03/05/18 14:18	
2-Fluorophenol	50	16 - 129	03/05/18 14:18	
Nitrobenzene-d5	52	10 - 95	03/05/18 14:18	
Phenol-d6	50	10 - 145	03/05/18 14:18	
Terphenyl-d14	62	16 - 126	03/05/18 14:18	



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (5.0)  
**Project No.:** R1801804      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-01 (5.0)      **Lab Code:** R1801804-004

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.316	1.0	2.0		
Barium	6010C	2.2	0.080	1.0	25.5		
Cadmium	6010C	0.545	0.018	1.0	0.087	J	
Mercury	7471B	0.035	0.010	1.0	0.035	U	
Chromium	6010C	1.1	0.099	1.0	5.1		
Lead	6010C	5.5	0.212	1.0	3.5	J	
Selenium	6010C	1.1	0.411	1.0	1.1	U	
Silver	6010C	1.1	0.072	1.0	1.1	U	

% Solids: 89.0

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (5.0)  
**Project No.:** R1801804      **Date Collected:** 2/16/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-14 (8.5)      **Lab Code:** R1801804-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.2	0.343	1.0	3.4		
Barium	6010C	2.4	0.086	1.0	34.0		
Cadmium	6010C	0.591	0.020	1.0	1.2		
Mercury	7471B	0.039	0.011	1.0	0.089		
Chromium	6010C	1.2	0.108	1.0	9.3		
Lead	6010C	5.9	0.229	1.0	15.6		
Selenium	6010C	1.2	0.445	1.0	1.0	J	
Silver	6010C	1.2	0.078	1.0	1.2	U	

% Solids: 81.4

Comments:





## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-01 (5.0)  
**Lab Code:** R1801804-004

**Service Request:** R1801804  
**Date Collected:** 02/15/18 09:15  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	89.0	Percent	-	-	1	03/07/18 17:30	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Service Request:** R1801804  
**Date Collected:** 02/16/18 09:35  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	81.4	Percent	-	-	1	03/07/18 17:30	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
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## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		13 - 128	10 - 102	16 - 129
TP-14 (8.5)	R1801804-005	60	46	50
Method Blank	RQ1801883-01	99	79	80
Lab Control Sample	RQ1801883-02	81	71	72
Duplicate Lab Control Sample	RQ1801883-03	98	83	81

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		10 - 95	10 - 145	16 - 126
TP-14 (8.5)	R1801804-005	52	50	62
Method Blank	RQ1801883-01	84	81	123
Lab Control Sample	RQ1801883-02	78	73	103
Duplicate Lab Control Sample	RQ1801883-03	89	83	117

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Analyzed:** 03/05/18 12:25  
**Date Extracted:** 03/02/18

**Method Blank Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1801883-01  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Instrument ID:**R-MS-51  
**File ID:**I:\ACQUADATA\5973A\DATA\030518\DM120.D\  
**Analysis Lot:**582266  
**Extraction Lot:**309261

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1801883-02	I:\ACQUADATA\5973A\DATA\030218\DM098.D\	03/02/18 18:34
Duplicate Lab Control Sample	RQ1801883-03	I:\ACQUADATA\5973A\DATA\030218\DM099.D\	03/02/18 19:02
TP-14 (8.5)	R1801804-005	I:\ACQUADATA\5973A\DATA\030518\DM124.D\	03/05/18 14:18



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801883-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	330 U	330	96	1	03/05/18 12:25	3/2/18	
2,3,4,6-Tetrachlorophenol	330 U	330	82	1	03/05/18 12:25	3/2/18	
2,4,5-Trichlorophenol	330 U	330	82	1	03/05/18 12:25	3/2/18	
2,4,6-Trichlorophenol	330 U	330	86	1	03/05/18 12:25	3/2/18	
2,4-Dichlorophenol	330 U	330	68	1	03/05/18 12:25	3/2/18	
2,4-Dimethylphenol	330 U	330	63	1	03/05/18 12:25	3/2/18	
2,4-Dinitrophenol	1700 U	1700	62	1	03/05/18 12:25	3/2/18	
2,4-Dinitrotoluene	330 U	330	86	1	03/05/18 12:25	3/2/18	
2,6-Dinitrotoluene	330 U	330	120	1	03/05/18 12:25	3/2/18	
2-Chloronaphthalene	330 U	330	73	1	03/05/18 12:25	3/2/18	
2-Chlorophenol	330 U	330	80	1	03/05/18 12:25	3/2/18	
2-Methylnaphthalene	330 U	330	74	1	03/05/18 12:25	3/2/18	
2-Methylphenol	330 U	330	80	1	03/05/18 12:25	3/2/18	
2-Nitroaniline	1700 U	1700	95	1	03/05/18 12:25	3/2/18	
2-Nitrophenol	330 U	330	75	1	03/05/18 12:25	3/2/18	
3,3'-Dichlorobenzidine	330 U	330	110	1	03/05/18 12:25	3/2/18	
3- and 4-Methylphenol Coelution	330 U	330	83	1	03/05/18 12:25	3/2/18	
3-Nitroaniline	1700 U	1700	72	1	03/05/18 12:25	3/2/18	
4,6-Dinitro-2-methylphenol	1700 U	1700	72	1	03/05/18 12:25	3/2/18	
4-Bromophenyl Phenyl Ether	330 U	330	94	1	03/05/18 12:25	3/2/18	
4-Chloro-3-methylphenol	330 U	330	75	1	03/05/18 12:25	3/2/18	
4-Chloroaniline	330 U	330	40	1	03/05/18 12:25	3/2/18	
4-Chlorophenyl Phenyl Ether	330 U	330	79	1	03/05/18 12:25	3/2/18	
4-Nitroaniline	1700 U	1700	73	1	03/05/18 12:25	3/2/18	
4-Nitrophenol	1700 U	1700	200	1	03/05/18 12:25	3/2/18	
Acenaphthene	330 U	330	73	1	03/05/18 12:25	3/2/18	
Acenaphthylene	330 U	330	68	1	03/05/18 12:25	3/2/18	
Acetophenone	330 U	330	77	1	03/05/18 12:25	3/2/18	
Anthracene	330 U	330	64	1	03/05/18 12:25	3/2/18	
Atrazine	330 U	330	89	1	03/05/18 12:25	3/2/18	
Benz(a)anthracene	330 U	330	58	1	03/05/18 12:25	3/2/18	
Benzaldehyde	1700 U	1700	79	1	03/05/18 12:25	3/2/18	
Benzo(a)pyrene	330 U	330	67	1	03/05/18 12:25	3/2/18	
Benzo(b)fluoranthene	330 U	330	60	1	03/05/18 12:25	3/2/18	
Benzo(g,h,i)perylene	330 U	330	75	1	03/05/18 12:25	3/2/18	
Benzo(k)fluoranthene	330 U	330	74	1	03/05/18 12:25	3/2/18	
Biphenyl	330 U	330	77	1	03/05/18 12:25	3/2/18	
2,2'-Oxybis(1-chloropropane)	330 U	330	81	1	03/05/18 12:25	3/2/18	
Bis(2-chloroethoxy)methane	330 U	330	76	1	03/05/18 12:25	3/2/18	
Bis(2-chloroethyl) Ether	330 U	330	60	1	03/05/18 12:25	3/2/18	
Bis(2-ethylhexyl) Phthalate	500 U	500	460	1	03/05/18 12:25	3/2/18	
Butyl Benzyl Phthalate	330 U	330	63	1	03/05/18 12:25	3/2/18	
Caprolactam	330 U	330	74	1	03/05/18 12:25	3/2/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801883-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	330 U	330	82	1	03/05/18 12:25	3/2/18	
Chrysene	330 U	330	65	1	03/05/18 12:25	3/2/18	
Di-n-butyl Phthalate	330 U	330	110	1	03/05/18 12:25	3/2/18	
Di-n-octyl Phthalate	330 U	330	99	1	03/05/18 12:25	3/2/18	
Dibenz(a,h)anthracene	330 U	330	60	1	03/05/18 12:25	3/2/18	
Dibenzofuran	330 U	330	68	1	03/05/18 12:25	3/2/18	
Diethyl Phthalate	330 U	330	180	1	03/05/18 12:25	3/2/18	
Dimethyl Phthalate	330 U	330	91	1	03/05/18 12:25	3/2/18	
Fluoranthene	330 U	330	78	1	03/05/18 12:25	3/2/18	
Fluorene	330 U	330	83	1	03/05/18 12:25	3/2/18	
Hexachlorobenzene	330 U	330	77	1	03/05/18 12:25	3/2/18	
Hexachlorobutadiene	330 U	330	56	1	03/05/18 12:25	3/2/18	
Hexachlorocyclopentadiene	330 U	330	55	1	03/05/18 12:25	3/2/18	
Hexachloroethane	330 U	330	58	1	03/05/18 12:25	3/2/18	
Indeno(1,2,3-cd)pyrene	330 U	330	73	1	03/05/18 12:25	3/2/18	
Isophorone	330 U	330	71	1	03/05/18 12:25	3/2/18	
N-Nitrosodi-n-propylamine	330 U	330	60	1	03/05/18 12:25	3/2/18	
N-Nitrosodiphenylamine	330 U	330	150	1	03/05/18 12:25	3/2/18	
Naphthalene	330 U	330	68	1	03/05/18 12:25	3/2/18	
Nitrobenzene	330 U	330	68	1	03/05/18 12:25	3/2/18	
Pentachlorophenol (PCP)	1700 U	1700	110	1	03/05/18 12:25	3/2/18	
Phenanthrene	330 U	330	69	1	03/05/18 12:25	3/2/18	
Phenol	330 U	330	72	1	03/05/18 12:25	3/2/18	
Pyrene	330 U	330	65	1	03/05/18 12:25	3/2/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	99	13 - 128	03/05/18 12:25	
2-Fluorobiphenyl	79	10 - 102	03/05/18 12:25	
2-Fluorophenol	80	16 - 129	03/05/18 12:25	
Nitrobenzene-d5	84	10 - 95	03/05/18 12:25	
Phenol-d6	81	10 - 145	03/05/18 12:25	
Terphenyl-d14	123	16 - 126	03/05/18 12:25	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Analyzed:** 03/02/18 18:34  
**Date Extracted:** 03/02/18

**Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1801883-02  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Instrument ID:** R-MS-51  
**File ID:** I:\ACQUADATA\5973A\DATA\030218\DM098.D\  
**Analysis Lot:** 582266  
**Extraction Lot:** 309261

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Duplicate Lab Control Sample	RQ1801883-03	I:\ACQUADATA\5973A\DATA\030218\DM099.D\	03/02/18 19:02
Method Blank	RQ1801883-01	I:\ACQUADATA\5973A\DATA\030518\DM120.D\	03/05/18 12:25
TP-14 (8.5)	R1801804-005	I:\ACQUADATA\5973A\DATA\030518\DM124.D\	03/05/18 14:18

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Analyzed:** 03/02/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801883-02				Duplicate Lab Control Sample RQ1801883-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	2270	3420	66	2750	3420	80	31-127	19	30
2,3,4,6-Tetrachlorophenol	8270D	2700	3330	81	3150	3330	94	37-123	15	30
2,4,5-Trichlorophenol	8270D	2550	3330	76	3030	3330	91	32-104	18	30
2,4,6-Trichlorophenol	8270D	2520	3330	76	2980	3330	89	30-101	16	30
2,4-Dichlorophenol	8270D	2630	3330	79	3020	3330	91	39-135	14	30
2,4-Dimethylphenol	8270D	2580	3330	77	2970	3330	89	31-135	14	30
2,4-Dinitrophenol	8270D	2470	3330	74	1720	3330	51	10-128	37*	30
2,4-Dinitrotoluene	8270D	2670	3330	80	3140	3330	94	39-122	16	30
2,6-Dinitrotoluene	8270D	2730	3330	82	3300	3330	99	34-122	19	30
2-Chloronaphthalene	8270D	2300	3330	69	2720	3330	82	41-124	17	30
2-Chlorophenol	8270D	2440	3330	73	2810	3330	84	39-123	14	30
2-Methylnaphthalene	8270D	2350	3330	70	2730	3330	82	33-125	16	30
2-Methylphenol	8270D	2470	3330	74	2870	3330	86	38-123	15	30
2-Nitroaniline	8270D	2700	3330	81	3220	3330	97	25-116	18	30
2-Nitrophenol	8270D	2820	3330	85	3250	3330	98 *	23-96	14	30
3,3'-Dichlorobenzidine	8270D	1860	3330	56	2230	3330	67	25-105	18	30
3- and 4-Methylphenol Coelution	8270D	2410	3330	72	2780	3330	84	42-114	15	30
3-Nitroaniline	8270D	2040	3330	61	2370	3330	71	43-106	15	30
4,6-Dinitro-2-methylphenol	8270D	2800	3330	84	2440	3330	73	10-127	14	30
4-Bromophenyl Phenyl Ether	8270D	2760	3330	83	3240	3330	97	40-102	16	30
4-Chloro-3-methylphenol	8270D	2530	3330	76	3060	3330	92	42-140	19	30
4-Chloroaniline	8270D	1670	3330	50	1950	3330	59	34-101	17	30
4-Chlorophenyl Phenyl Ether	8270D	2470	3330	74	2950	3330	89	39-100	18	30
4-Nitroaniline	8270D	2240	3330	67	2730	3330	82	35-112	20	30
4-Nitrophenol	8270D	2300	3330	69	2830	3330	85	34-123	21	30
Acenaphthene	8270D	2220	3330	67	2630	3330	79	32-100	16	30
Acenaphthylene	8270D	2400	3330	72	2860	3330	86	33-100	18	30
Acetophenone	8270D	4280	6670	64	4950	6670	74	23-87	14	30
Anthracene	8270D	2780	3330	84	3280	3330	98	46-103	15	30
Atrazine	8270D	2880	3330	87	3350	3330	100	44-137	14	30
Benz(a)anthracene	8270D	2720	3330	82	3210	3330	96	32-105	16	30
Benzaldehyde	8270D	2670	3330	80	3140	3330	94	10-200	16	30
Benzo(a)pyrene	8270D	2820	3330	84	3280	3330	98	48-110	15	30

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Analyzed:** 03/02/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1801883-02				Duplicate Lab Control Sample RQ1801883-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzo(b)fluoranthene	8270D	2590	3330	78	3050	3330	92	44-107	16	30
Benzo(g,h,i)perylene	8270D	2850	3330	85	3300	3330	99	49-120	15	30
Benzo(k)fluoranthene	8270D	2730	3330	82	3140	3330	94	46-107	14	30
Biphenyl	8270D	2320	3330	70	2800	3330	84	24-104	18	30
2,2'-Oxybis(1-chloropropane)	8270D	2280	3330	68 *	2620	3330	79 *	13-63	15	30
Bis(2-chloroethoxy)methane	8270D	2460	3330	74	2820	3330	85	28-91	14	30
Bis(2-chloroethyl) Ether	8270D	2290	3330	69 *	2610	3330	78 *	13-63	12	30
Bis(2-ethylhexyl) Phthalate	8270D	2780	3330	83	3280	3330	98	35-119	17	30
Butyl Benzyl Phthalate	8270D	2650	3330	80	3140	3330	94	47-117	16	30
Caprolactam	8270D	2530	3330	76	2970	3330	89	30-111	16	30
Carbazole	8270D	2660	3330	80	3110	3330	93	41-112	15	30
Chrysene	8270D	2780	3330	83	3250	3330	98	48-111	17	30
Di-n-butyl Phthalate	8270D	2680	3330	81	3080	3330	93	51-120	14	30
Di-n-octyl Phthalate	8270D	2720	3330	81	3160	3330	95	47-127	16	30
Dibenz(a,h)anthracene	8270D	3230	3330	97	3670	3330	110	46-114	13	30
Dibenzofuran	8270D	2380	3330	71	2780	3330	83	34-97	16	30
Diethyl Phthalate	8270D	2120	3330	64	2570	3330	77	45-108	18	30
Dimethyl Phthalate	8270D	2150	3330	65	2600	3330	78	41-101	18	30
Fluoranthene	8270D	2740	3330	82	3230	3330	97	45-113	17	30
Fluorene	8270D	2290	3330	69	2740	3330	82	38-101	17	30
Hexachlorobenzene	8270D	2700	3330	81	3160	3330	95	41-106	16	30
Hexachlorobutadiene	8270D	2470	3330	74	2790	3330	84	10-142	13	30
Hexachlorocyclopentadiene	8270D	1980	3330	59	2270	3330	68	10-133	14	30
Hexachloroethane	8270D	2140	3330	64	2450	3330	74	10-129	14	30
Indeno(1,2,3-cd)pyrene	8270D	2850	3330	85	3290	3330	99	46-115	15	30
Isophorone	8270D	2160	3330	65	2520	3330	76	27-95	16	30
N-Nitrosodi-n-propylamine	8270D	2170	3330	65	2530	3330	76	21-89	16	30
N-Nitrosodiphenylamine	8270D	2970	3330	89	3490	3330	105	37-116	16	30
Naphthalene	8270D	2310	3330	69	2610	3330	78	31-123	12	30
Nitrobenzene	8270D	2210	3330	66	2510	3330	75	35-134	13	30
Pentachlorophenol (PCP)	8270D	3400	3330	102	3530	3330	106	10-137	4	30
Phenanthrene	8270D	2710	3330	81	3160	3330	95	45-106	16	30
Phenol	8270D	2550	3330	76	2980	3330	89	10-144	16	30

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Analyzed:** 03/02/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Pyrene	8270D	2910	3330	87	3400	3330	102	48-117	16	30

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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804  
**Date Analyzed:**03/02/18 10:08

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\030218\DM086.D\  
**Instrument ID:** R-MS-51

**Analytical Method:** 8270D  
**Analysis Lot:** 582266

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	30.68	35796	Pass
68	69	0.00	2	0.00	0	Pass
69	198	0.00	100	40.69	47480	Pass
70	69	0.00	2	0.87	413	Pass
127	198	10	80	53.08	61940	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	116683	Pass
199	198	5	9	6.97	8131	Pass
275	198	10	60	26.73	31189	Pass
365	198	1	100	3.52	4105	Pass
441	442	0.01	24	12.71	25835	Pass
442	442	100	100	100.00	203344	Pass
443	442	15	24	19.59	39840	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801909-04	I:\ACQUADATA\5973A\DATA\030218\DM087.D\	03/02/18 10:45	
Lab Control Sample	RQ1801883-02	I:\ACQUADATA\5973A\DATA\030218\DM098.D\	03/02/18 18:34	
Duplicate Lab Control Sample	RQ1801883-03	I:\ACQUADATA\5973A\DATA\030218\DM099.D\	03/02/18 19:02	

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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804  
**Date Analyzed:**03/05/18 07:34

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\030518\DM110.D\  
**Instrument ID:** R-MS-51

**Analytical Method:** 8270D  
**Analysis Lot:** 582423

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	31.86	36113	Pass
68	69	0.00	2	0.85	425	Pass
69	198	0.00	100	44.30	50220	Pass
70	69	0.00	2	0.68	340	Pass
127	198	10	80	54.23	61472	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	113360	Pass
199	198	5	9	6.90	7819	Pass
275	198	10	60	25.95	29420	Pass
365	198	1	100	2.82	3197	Pass
441	442	0.01	24	17.79	29867	Pass
442	442	100	100	100.00	167909	Pass
443	442	15	24	19.30	32400	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1801937-04	I:\ACQUADATA\5973A\DATA\030518\DM112.D\	03/05/18 08:35	
Method Blank	RQ1801883-01	I:\ACQUADATA\5973A\DATA\030518\DM120.D\	03/05/18 12:25	
TP-14 (8.5)	R1801804-005	I:\ACQUADATA\5973A\DATA\030518\DM124.D\	03/05/18 14:18	



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804  
**Date Analyzed:**03/02/18 10:45

**Internal Standard Area and RT SUMMARY**  
**Semivolatle Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973A\DATA\030218\DM087.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801909-04  
**Analysis Lot:**582266  
**Signal ID:**

	1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	206,150	4.78	362,171	7.66	501,910	12.41
<b>Upper Limit ==&gt;</b>	412,300	5.28	724,342	8.16	1,003,820	12.91
<b>Lower Limit ==&gt;</b>	103,075	4.28	181,086	7.16	250,955	11.91

**Associated Analyses**

Lab Control Sample	RQ1801883-02	198190	4.78	366921	7.65	467822	12.41
Duplicate Lab Control Sample	RQ1801883-03	185328	4.78	338079	7.65	447433	12.41

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804  
**Date Analyzed:**03/02/18 10:45

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973A\DATA\030218\DM087.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801909-04  
**Analysis Lot:**582266  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10		
	Area	RT	Area	RT	Area	RT	
<b>ICAL Result ==&gt;</b>	764,238	5.95	524,629	15.36	570,810	9.13	
<b>Upper Limit ==&gt;</b>	1,528,476	6.45	1,049,258	15.86	1,141,620	9.63	
<b>Lower Limit ==&gt;</b>	382,119	5.45	262,315	14.86	285,405	8.63	
<b>Associated Analyses</b>							
Lab Control Sample	RQ1801883-02	758134	5.95	469662	15.35	537400	9.12
Duplicate Lab Control Sample	RQ1801883-03	715238	5.95	452994	15.35	510369	9.12

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804  
**Date Analyzed:**03/05/18 08:35

**Internal Standard Area and RT SUMMARY**  
**Semivolatle Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973A\DATA\030518\DM112.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801937-04  
**Analysis Lot:**582423  
**Signal ID:**

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>		180,591	4.78	337,128	7.65	544,987	12.41
<b>Upper Limit ==&gt;</b>		361,182	5.28	674,256	8.15	1,089,974	12.91
<b>Lower Limit ==&gt;</b>		90,296	4.28	168,564	7.15	272,494	11.91
<b>Associated Analyses</b>							
Method Blank	RQ1801883-01	168858	4.78	319230	7.65	433837	12.40
TP-14 (8.5)	R1801804-005	191122	4.78	374308	7.65	565593	12.41

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804  
**Date Analyzed:**03/05/18 08:35

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973A\DATA\030518\DM112.D\  
**Instrument ID:** R-MS-51  
**Analysis Method:** 8270D

**Lab Code:**RQ1801937-04  
**Analysis Lot:**582423  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10		
	Area	RT	Area	RT	Area	RT	
<b>ICAL Result ==&gt;</b>	683,743	5.95	559,664	15.36	556,862	9.13	
<b>Upper Limit ==&gt;</b>	1,367,486	6.45	1,119,328	15.86	1,113,724	9.63	
<b>Lower Limit ==&gt;</b>	341,872	5.45	279,832	14.86	278,431	8.63	
<b>Associated Analyses</b>							
Method Blank	RQ1801883-01	643912	5.95	530133	15.35	499951	9.12
TP-14 (8.5)	R1801804-005	734631	5.94	593610	15.35	583998	9.12



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	960	96	1000	962	96	972	97	P
Barium	10000	10300	103	10000	10400	104	10400	104	P
Cadmium	500	501	100	500	503	101	504	101	P
Mercury	3.00	3.18	106	3.00	3.15	105	3.12	104	CV
Chromium	500	520	104	500	524	105	526	105	P
Lead	500	501	100	500	503	101	502	100	P
Selenium	500	483	97	500	487	97	489	98	P
Silver	500	481	96	500	483	97	485	97	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	962	96	956	96	P
Barium				10000	10400	104	10300	103	P
Cadmium				500	503	101	500	100	P
Mercury				3.00	3.14	105	3.14	105	CV
Chromium				500	527	105	525	105	P
Lead				500	504	101	502	100	P
Selenium				500	479	96	481	96	P
Silver				500	484	97	482	96	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	955	96	954	95	P
Barium				10000	10200	102	10200	102	P
Cadmium				500	496	99	496	99	P
Chromium				500	521	104	522	104	P
Lead				500	500	100	499	100	P
Selenium				500	474	95	474	95	P
Silver				500	478	96	478	96	P

Comments:



**METALS**  
-2B-  
CRDL STANDARD FOR AA AND ICP

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	20.20	101	18.80	94
Barium				200.0	218.10	109	204.50	102
Cadmium				10.0	10.60	106	9.80	98
Mercury	0.200	0.205	102					
Chromium				10.0	10.60	106	10.10	101
Lead				10.0	8.30	83	8.50	85
Selenium				10.0	9.30	93	8.80	88
Silver				10.0	10.10	101	9.60	96

Comments:

**METALS**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.198	99					

Comments:

METALS

-3-

BLANKS

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	C	2	C	3	C	C		
Arsenic	2.90 U	2.90	U	2.90	U	2.90	U	0.290	U	P
Barium	1.50 J	0.73	U	1.10	J	1.10	J	0.073	U	P
Cadmium	0.17 U	0.17	U	0.17	U	0.17	U	0.030	J	P
Mercury	0.057 U	0.057	U	0.057	U	0.057	U	0.009	U	CV
Chromium	0.91 U	0.91	U	0.91	U	0.91	U	0.210	J	P
Lead	1.94 U	-3.00	J	1.94	U	1.94	U	0.194	U	P
Selenium	3.77 U	3.77	U	3.77	U	3.77	U	0.377	U	P
Silver	0.66 U	0.66	U	0.66	U	0.66	U	0.066	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		2.90	U	2.90	U	2.90	U			P
Barium		1.50	J	1.90	J	2.50	J			P
Cadmium		0.17	U	0.17	U	0.17	U			P
Mercury		0.057	U							CV
Chromium		0.91	U	0.91	U	0.91	U			P
Lead		-2.30	J	1.94	U	1.94	U			P
Selenium		3.77	U	3.77	U	3.77	U			P
Silver		0.66	U	0.66	U	0.66	U			P

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	2.2	100	100	-0.5	101	101
Barium		500	0.6	525	105	0.5	522	104
Cadmium		1000	-1.4	976	98	-1.3	971	97
Chromium		500	0.2	508	102	0.1	510	102
Lead		50	-5.0	45	90	-4.2	46	92
Selenium		50	-1.1	51	102	0.7	47	94
Silver		200	-0.2	212	106	-0.3	212	106

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-01 (5.0)S

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	5.48	1.97	4.3	82		P
Barium	75 - 125	230.00	25.50	216.0	95		P
Cadmium	75 - 125	5.03	0.09 J	5.4	91		P
Chromium	75 - 125	25.80	5.07	21.6	96		P
Lead	75 - 125	52.50	3.52 J	54.0	91		P
Selenium	75 - 125	97.50	0.41 U	109.0	89		P
Silver	75 - 125	5.11	0.07 U	5.4	95		P

Comments:

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 \_\_\_\_\_

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-01 (5.0) SD

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	5.61	1.97	4.3	85		P
Barium	75 - 125	236.00	25.50	216.0	97		P
Cadmium	75 - 125	5.12	0.09 J	5.4	93		P
Chromium	75 - 125	26.50	5.07	21.6	99		P
Lead	75 - 125	53.30	3.52 J	54.0	92		P
Selenium	75 - 125	98.80	0.41 U	109.0	91		P
Silver	75 - 125	5.22	0.07 U	5.4	97		P

Comments:

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METALS  
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-01 (5.0)A

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Matrix (soil/water): SOIL \_\_\_\_\_ Level (low/med): LOW \_\_\_\_\_

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added(SA)	%R	Q	M
Arsenic		53.50	18.10	40.0	88		P
Barium		2100.00	234.00	2000.0	93		P
Cadmium		46.20	0.80 J	50.0	91		P
Chromium		234.00	46.50	200.0	94		P
Lead		488.00	32.30 J	500.0	91		P
Selenium		992.00	3.77 U	1010.0	98		P
Silver		31.80	0.66 U	50.0	64		P

Comments:

\_\_\_\_\_

\_\_\_\_\_



METALS  
-6-  
DUPLICATES

SAMPLE NO.

TP-01 (5.0)SD

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.0 % Solids for Duplicate: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Arsenic		5.48	5.61	2		P
Barium		230.00	236.00	3		P
Cadmium		5.03	5.12	2		P
Chromium		25.80	26.50	3		P
Lead		52.50	53.30	2		P
Selenium		97.50	98.80	1		P
Silver		5.11	5.22	2		P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Solid LCS Source: CPI

Aqueous LCS Source: \_\_\_\_\_

Analyte	Aqueous (ug/L)			Solid (mg/K)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic				4	3.67		3.2   4.8	92
Barium				200	208.86		160   240	104
Cadmium				5	5.19		4   6	104
Mercury				0.166	0.17		.133   .199	102
Chromium				20	20.89		16   24	104
Lead				50	50.93		40   60	102
Selenium				101	91.78		80.8   121	91
Silver				5	4.86		4   6	97

Comments: \_\_\_\_\_

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

TP-01 (5.0)L

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	18.10	14.50 U	100.0		P
Barium	234.00	244.00	4		P
Cadmium	0.80 J	1.50 J	88		P
Chromium	46.50	48.50 J	4		P
Lead	32.30 J	20.00 J	38		P
Selenium	3.77 U	18.80 U			P
Silver	0.66 U	3.30 U			P

Comments: \_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

ICP ID Number: \_\_\_\_\_ Date: 5/5/2017

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.057	CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

ICP ID Number: Agilent ICP Date: 3/16/2017

Flame AA ID Number: \_\_\_\_\_

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Arsenic	188.980		10.0	2.90	P
Barium	230.424		20.0	0.73	P
Cadmium	214.439		5.0	0.17	P
Chromium	267.716		10.0	0.91	P
Lead	220.353		50.0	1.94	P
Selenium	196.026		10.0	3.77	P
Silver	328.068		10.0	0.66	P

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
ICP LINEAR RANGES (QUARTERLY)

-12-

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

ICP ID Number: Agilent ICP Date: 4/28/2017

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Cadmium	1.000	2000	P
Chromium	1.000	10000	P
Lead	1.000	10000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P

Comments:

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\_\_\_\_\_  
\_\_\_\_\_

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1801804  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	19:09				X	X		X	X				X						X	X					
STANDARD 1	1.00	19:12				X	X		X	X				X						X	X					
STANDARD 2	1.00	19:15				X	X		X	X				X						X	X					
STANDARD 3	1.00	19:19				X	X		X	X				X						X	X					
STANDARD 4	1.00	19:22				X	X		X	X				X						X	X					
STANDARD 5	1.00	19:26				X	X		X	X				X						X	X					
ICV1	1.00	19:29				X	X		X	X				X						X	X					
ICB1	1.00	19:32				X	X		X	X				X						X	X					
CRDL1	1.00	19:36				X	X		X	X				X						X	X					
ICS-A1	1.00	19:39				X	X		X	X				X						X	X					
ICS-AB1	1.00	19:42				X	X		X	X				X						X	X					
CCV1	1.00	19:46				X	X		X	X				X						X	X					
CCB1	1.00	19:49				X	X		X	X				X						X	X					
PBS	1.00	19:52				X	X		X	X				X						X	X					
LCSS	1.00	19:56				X	X		X	X				X						X	X					
ZZZZZ	1.00	19:59																								
ZZZZZ	1.00	20:02																								
ZZZZZ	1.00	20:06																								
ZZZZZ	1.00	20:09																								
ZZZZZ	1.00	20:12																								
ZZZZZ	1.00	20:16																								
ZZZZZ	1.00	20:19																								
ZZZZZ	1.00	20:22																								
CCV2	1.00	20:26				X	X		X	X				X						X	X					
CCB2	1.00	20:29				X	X		X	X				X						X	X					
ZZZZZ	1.00	20:32																								
ZZZZZ	1.00	20:36																								
ZZZZZ	1.00	20:39																								
ZZZZZ	1.00	20:43																								
ZZZZZ	1.00	20:46																								
ZZZZZ	1.00	20:49																								
ZZZZZ	1.00	20:53																								
ZZZZZ	1.00	20:56																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
ZZZZZZ	1.00	20:59																									
TP-01 (5.0)	1.00	21:03			X	X		X	X				X							X	X						
CCV3	1.00	21:06			X	X		X	X				X							X	X						
CCB3	1.00	21:09			X	X		X	X				X							X	X						
TP-01 (5.0)S	1.00	21:13			X	X		X	X				X							X	X						
TP-01 (5.0)SD	1.00	21:16			X	X		X	X				X							X	X						
TP-01 (5.0)A	1.00	21:19			X	X		X	X				X							X	X						
TP-01 (5.0)L	5.00	21:23			X	X		X	X				X							X	X						
TP-14 (8.5)	1.00	21:26			X	X		X	X				X							X	X						
ZZZZZZ	1.00	21:29																									
ZZZZZZ	10.00	21:33																									
ZZZZZZ	10.00	21:36																									
ZZZZZZ	10.00	21:39																									
ZZZZZZ	10.00	21:43																									
CCV4	1.00	21:46			X	X		X	X				X							X	X						
CCB4	1.00	21:50			X	X		X	X				X							X	X						
ZZZZZZ	10.00	21:53																									
ZZZZZZ	10.00	21:56																									
ZZZZZZ	10.00	22:00																									
CCV5	1.00	22:03			X	X		X	X				X							X	X						
CCB5	1.00	22:06			X	X		X	X				X							X	X						
CRDL2	1.00	22:10			X	X		X	X				X							X	X						
ICS-A2	1.00	22:13			X	X		X	X				X							X	X						
ICS-AB2	1.00	22:16			X	X		X	X				X							X	X						
ZZZZZZ	1.00	22:20																									
ZZZZZZ	1.00	22:23																									
ZZZZZZ	1.00	22:26																									
CCV6	1.00	22:30			X	X		X	X				X							X	X						
CCB6	1.00	22:33			X	X		X	X				X							X	X						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



METALS

-14-

ANALYSIS RUN LOG

Contract: R1801804

Lab Code: Case No.: SAS No.: SDG No.: TP-01 (5.0)

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/6/2018 End Date: 3/6/2018

Table with columns: Sample ID., D/F, Time, % R, and Analytes (ALB, SAS, BEA, BED, CED, CEA, CRO, CUE, PFB, PMG, MNG, HGI, NKS, SAEG, NALT, VZN, CN).

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N A	T L	V	Z N	C N
ZZZZZZ	1.00	05:30																									
ZZZZZZ	1.00	05:32																									
ZZZZZZ	1.00	05:34																									
ZZZZZZ	1.00	05:35																									
TP-01 (5.0)	1.00	05:37																									
TP-14 (8.5)	1.00	05:39																									
CRDL2	1.00	05:40																									
CCV4	1.00	05:42																									
CCB4	1.00	05:43																									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** 02/16/18  
**Date Received:** 02/19/18  
**Date Analyzed:** 03/07/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1801804-005DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	-	81.4	82.9	82.1	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



## Raw Data

**ALS Environmental—Rochester Laboratory**  
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## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** 02/16/18 09:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	400 U	400	120	1	03/05/18 14:18	3/2/18	
2,3,4,6-Tetrachlorophenol	400 U	400	100	1	03/05/18 14:18	3/2/18	
2,4,5-Trichlorophenol	400 U	400	100	1	03/05/18 14:18	3/2/18	
2,4,6-Trichlorophenol	400 U	400	110	1	03/05/18 14:18	3/2/18	
2,4-Dichlorophenol	400 U	400	83	1	03/05/18 14:18	3/2/18	
2,4-Dimethylphenol	400 U	400	77	1	03/05/18 14:18	3/2/18	
2,4-Dinitrophenol	2100 U	2100	75	1	03/05/18 14:18	3/2/18	
2,4-Dinitrotoluene	400 U	400	110	1	03/05/18 14:18	3/2/18	
2,6-Dinitrotoluene	400 U	400	150	1	03/05/18 14:18	3/2/18	
2-Chloronaphthalene	400 U	400	89	1	03/05/18 14:18	3/2/18	
2-Chlorophenol	400 U	400	98	1	03/05/18 14:18	3/2/18	
2-Methylnaphthalene	400 U	400	91	1	03/05/18 14:18	3/2/18	
2-Methylphenol	400 U	400	98	1	03/05/18 14:18	3/2/18	
2-Nitroaniline	2100 U	2100	120	1	03/05/18 14:18	3/2/18	
2-Nitrophenol	400 U	400	92	1	03/05/18 14:18	3/2/18	
3,3'-Dichlorobenzidine	400 U	400	130	1	03/05/18 14:18	3/2/18	
3- and 4-Methylphenol Coelution	400 U	400	110	1	03/05/18 14:18	3/2/18	
3-Nitroaniline	2100 U	2100	87	1	03/05/18 14:18	3/2/18	
4,6-Dinitro-2-methylphenol	2100 U	2100	87	1	03/05/18 14:18	3/2/18	
4-Bromophenyl Phenyl Ether	400 U	400	120	1	03/05/18 14:18	3/2/18	
4-Chloro-3-methylphenol	400 U	400	92	1	03/05/18 14:18	3/2/18	
4-Chloroaniline	400 U	400	48	1	03/05/18 14:18	3/2/18	
4-Chlorophenyl Phenyl Ether	400 U	400	96	1	03/05/18 14:18	3/2/18	
4-Nitroaniline	2100 U	2100	89	1	03/05/18 14:18	3/2/18	
4-Nitrophenol	2100 U	2100	240	1	03/05/18 14:18	3/2/18	
Acenaphthene	400 U	400	89	1	03/05/18 14:18	3/2/18	
Acenaphthylene	400 U	400	82	1	03/05/18 14:18	3/2/18	
Acetophenone	400 U	400	94	1	03/05/18 14:18	3/2/18	
Anthracene	400 U	400	78	1	03/05/18 14:18	3/2/18	
Atrazine	400 U	400	110	1	03/05/18 14:18	3/2/18	
Benz(a)anthracene	400 U	400	71	1	03/05/18 14:18	3/2/18	
Benzaldehyde	2100 U	2100	96	1	03/05/18 14:18	3/2/18	
Benzo(a)pyrene	400 U	400	81	1	03/05/18 14:18	3/2/18	
Benzo(b)fluoranthene	400 U	400	74	1	03/05/18 14:18	3/2/18	
Benzo(g,h,i)perylene	400 U	400	92	1	03/05/18 14:18	3/2/18	
Benzo(k)fluoranthene	400 U	400	90	1	03/05/18 14:18	3/2/18	
Biphenyl	400 U	400	94	1	03/05/18 14:18	3/2/18	
2,2'-Oxybis(1-chloropropane)	400 U	400	99	1	03/05/18 14:18	3/2/18	
Bis(2-chloroethoxy)methane	400 U	400	92	1	03/05/18 14:18	3/2/18	
Bis(2-chloroethyl) Ether	400 U	400	73	1	03/05/18 14:18	3/2/18	
Bis(2-ethylhexyl) Phthalate	610 U	610	560	1	03/05/18 14:18	3/2/18	
Butyl Benzyl Phthalate	400 U	400	77	1	03/05/18 14:18	3/2/18	
Caprolactam	400 U	400	90	1	03/05/18 14:18	3/2/18	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801804  
**Date Collected:** 02/16/18 09:35  
**Date Received:** 02/19/18 15:59

**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	400 U	400	100	1	03/05/18 14:18	3/2/18	
Chrysene	400 U	400	79	1	03/05/18 14:18	3/2/18	
Di-n-butyl Phthalate	400 U	400	140	1	03/05/18 14:18	3/2/18	
Di-n-octyl Phthalate	400 U	400	130	1	03/05/18 14:18	3/2/18	
Dibenz(a,h)anthracene	400 U	400	73	1	03/05/18 14:18	3/2/18	
Dibenzofuran	400 U	400	82	1	03/05/18 14:18	3/2/18	
Diethyl Phthalate	400 U	400	220	1	03/05/18 14:18	3/2/18	
Dimethyl Phthalate	400 U	400	120	1	03/05/18 14:18	3/2/18	
Fluoranthene	400 U	400	95	1	03/05/18 14:18	3/2/18	
Fluorene	400 U	400	110	1	03/05/18 14:18	3/2/18	
Hexachlorobenzene	400 U	400	94	1	03/05/18 14:18	3/2/18	
Hexachlorobutadiene	400 U	400	68	1	03/05/18 14:18	3/2/18	
Hexachlorocyclopentadiene	400 U	400	67	1	03/05/18 14:18	3/2/18	
Hexachloroethane	400 U	400	71	1	03/05/18 14:18	3/2/18	
Indeno(1,2,3-cd)pyrene	400 U	400	89	1	03/05/18 14:18	3/2/18	
Isophorone	400 U	400	87	1	03/05/18 14:18	3/2/18	
N-Nitrosodi-n-propylamine	400 U	400	73	1	03/05/18 14:18	3/2/18	
N-Nitrosodiphenylamine	400 U	400	180	1	03/05/18 14:18	3/2/18	
Naphthalene	400 U	400	83	1	03/05/18 14:18	3/2/18	
Nitrobenzene	400 U	400	83	1	03/05/18 14:18	3/2/18	
Pentachlorophenol (PCP)	2100 U	2100	140	1	03/05/18 14:18	3/2/18	
Phenanthrene	400 U	400	84	1	03/05/18 14:18	3/2/18	
Phenol	400 U	400	88	1	03/05/18 14:18	3/2/18	
Pyrene	400 U	400	79	1	03/05/18 14:18	3/2/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	60	13 - 128	03/05/18 14:18	
2-Fluorobiphenyl	46	10 - 102	03/05/18 14:18	
2-Fluorophenol	50	16 - 129	03/05/18 14:18	
Nitrobenzene-d5	52	10 - 95	03/05/18 14:18	
Phenol-d6	50	10 - 145	03/05/18 14:18	
Terphenyl-d14	62	16 - 126	03/05/18 14:18	



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM124.D  
 Acq On : 5 Mar 2018 2:18 pm  
 Operator : J.Misiurewicz  
 Sample : R1801804-005  
 Misc : 309261 8270D SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 14:44:24 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

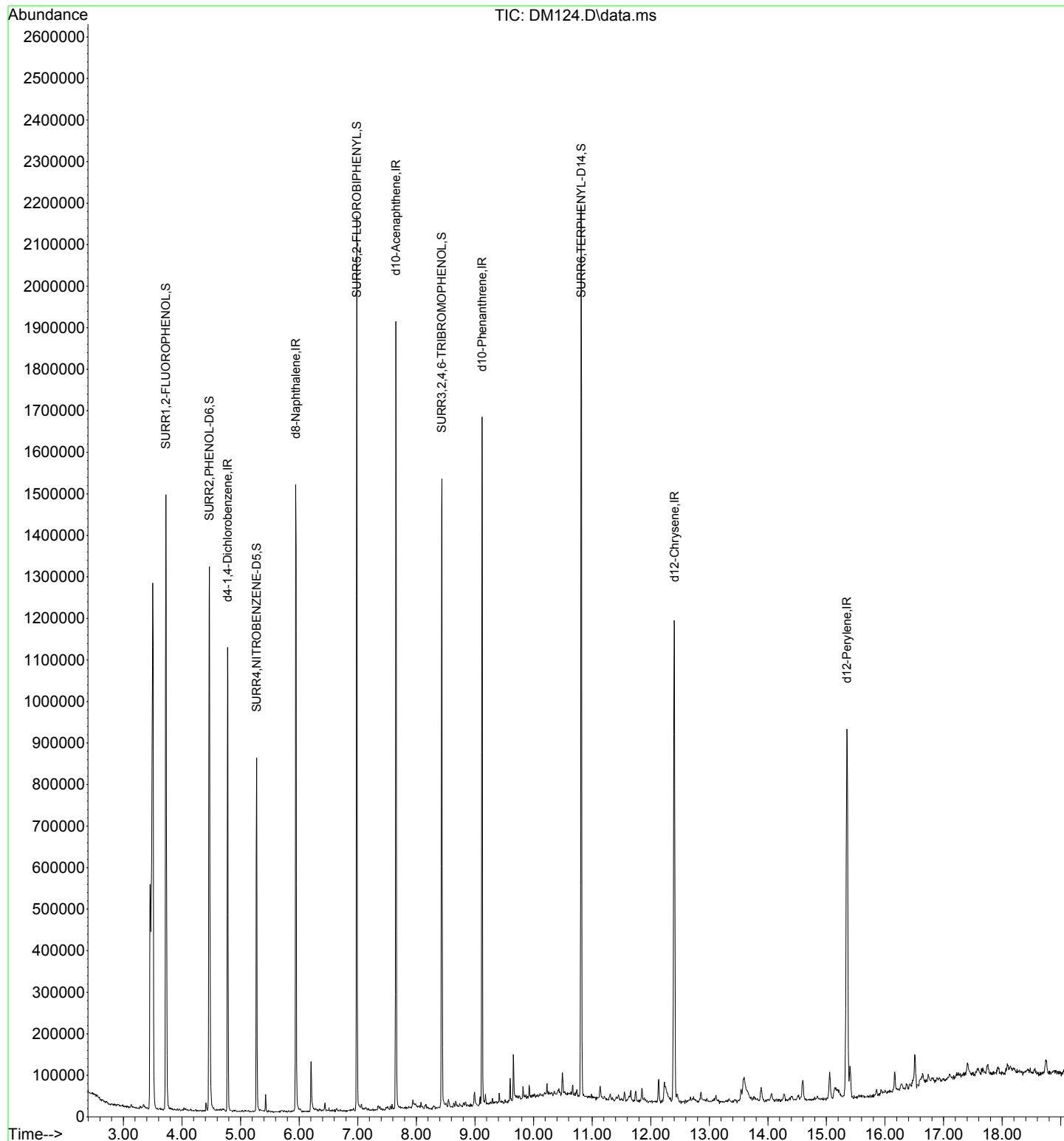
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.778	152	191122	40.00	ppm	-0.03
24) d8-Naphthalene	5.943	136	734631	40.00	ppm	-0.03
42) d10-Acenaphthene	7.652	164	374308	40.00	ppm	-0.03
69) d10-Phenanthrene	9.121	188	583998	40.00	ppm	-0.02
82) d12-Chrysene	12.405	240	565593	40.00	ppm	-0.03
91) d12-Perylene	15.348	264	593610	40.00	ppm	-0.03
<b>System Monitoring Compounds</b>						
4) SURR1,2-FLUOROPHENOL	3.726	112	614102	99.21	ppm	0.00
Spiked Amount 200.000	Range 16	- 129	Recovery =	49.60%		
8) SURR2,PHENOL-D6	4.469	99	765084	99.70	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	49.85%		
25) SURR4,NITROBENZENE-D5	5.275	82	281696	52.13	ppm	-0.02
Spiked Amount 100.000	Range 11	- 91	Recovery =	52.13%		
48) SURR5,2-FLUOROBIPHENYL	6.984	172	612412	46.30	ppm	-0.03
Spiked Amount 100.000	Range 14	- 102	Recovery =	46.30%		
67) SURR3,2,4,6-TRIBROMOPH...	8.437	330	214998	120.45	ppm	-0.02
Spiked Amount 200.000	Range 10	- 109	Recovery =	60.23%		
85) SURR6,TERPHENYL-D14	10.814	244	757657	62.38	ppm	-0.03
Spiked Amount 100.000	Range 16	- 120	Recovery =	62.38%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM124.D  
Acq On : 5 Mar 2018 2:18 pm  
Operator : J.Misiurewicz  
Sample : R1801804-005  
Misc : 309261 8270D SOIL  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Mar 05 14:44:24 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM120.D  
 Acq On : 5 Mar 2018 12:25 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-01  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 13:04:30 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

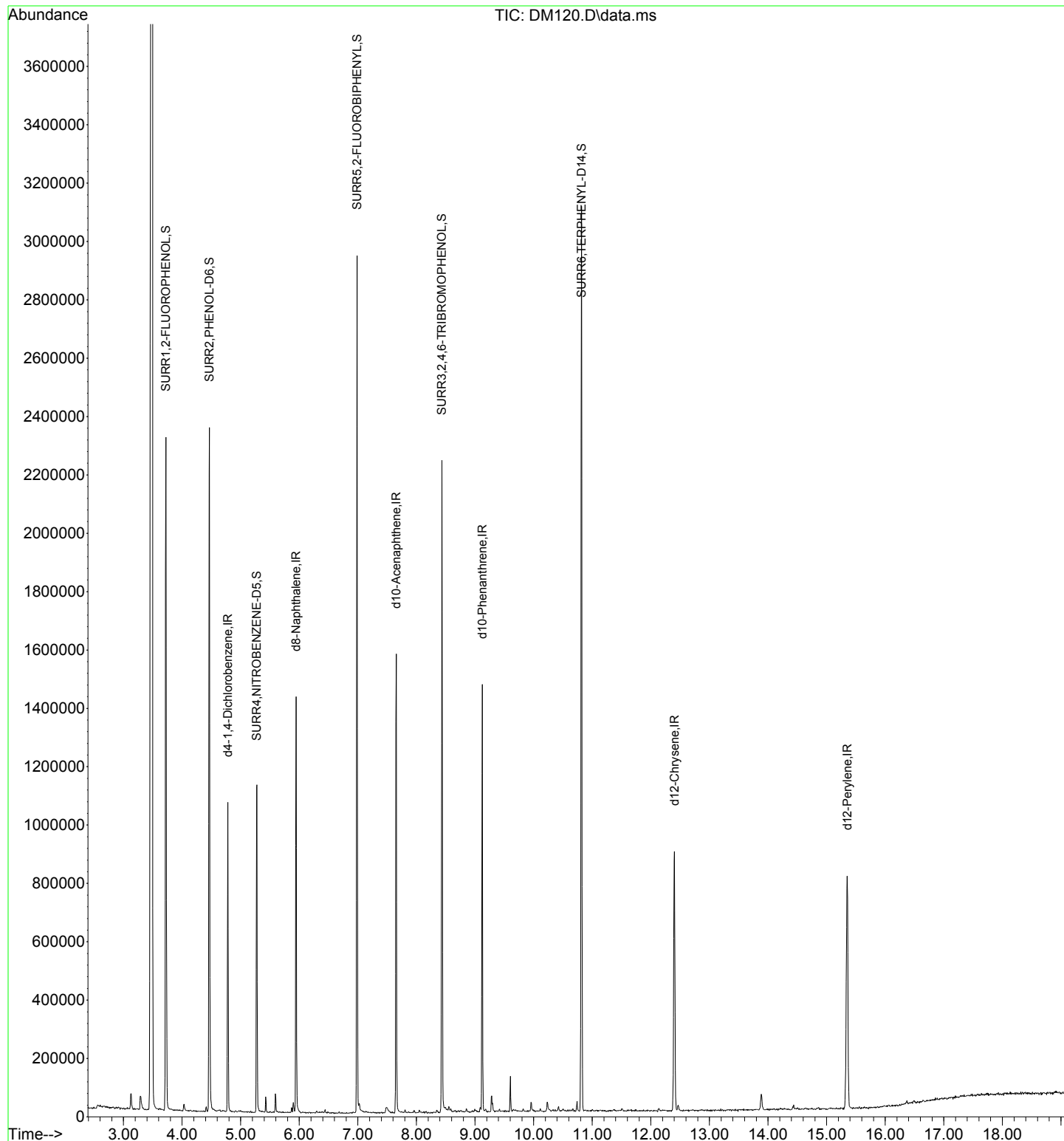
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.781	152	168858	40.00	ppm	-0.02
24) d8-Naphthalene	5.945	136	643912	40.00	ppm	-0.02
42) d10-Acenaphthene	7.654	164	319230	40.00	ppm	-0.02
69) d10-Phenanthrene	9.123	188	499951	40.00	ppm	-0.02
82) d12-Chrysene	12.403	240	433837	40.00	ppm	-0.03
91) d12-Perylene	15.351	264	530133	40.00	ppm	-0.03
System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.723	112	871226	159.31	ppm	-0.01
Spiked Amount 200.000	Range 16	- 129	Recovery =	79.66%		
8) SURR2,PHENOL-D6	4.466	99	1097443	161.87	ppm	0.00
Spiked Amount 200.000	Range 10	- 145	Recovery =	80.94%		
25) SURR4,NITROBENZENE-D5	5.272	82	399660	84.38	ppm	-0.02
Spiked Amount 100.000	Range 11	- 91	Recovery =	84.38%		
48) SURR5,2-FLUOROBIPHENYL	6.987	172	895216	79.35	ppm	-0.02
Spiked Amount 100.000	Range 14	- 102	Recovery =	79.35%		
67) SURR3,2,4,6-TRIBROMOPH...	8.434	330	301204	197.86	ppm	-0.02
Spiked Amount 200.000	Range 10	- 109	Recovery =	98.93%		
85) SURR6,TERPHENYL-D14	10.816	244	1142582	122.64	ppm	-0.03
Spiked Amount 100.000	Range 16	- 120	Recovery =	122.64%#		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

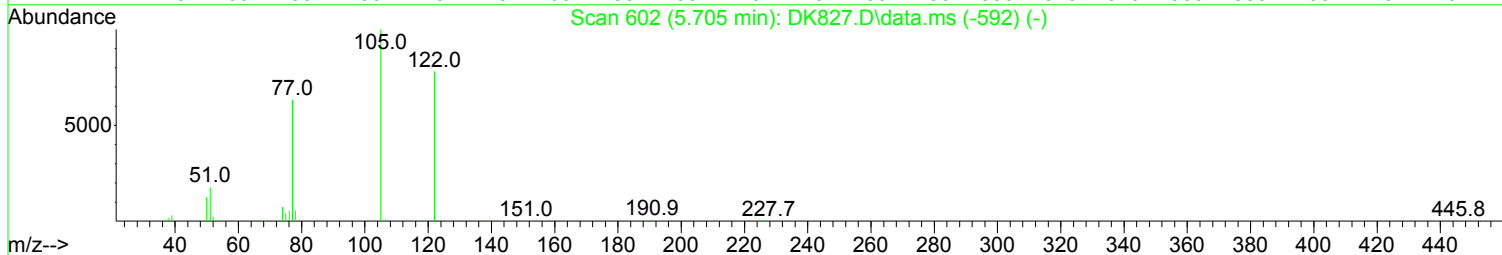
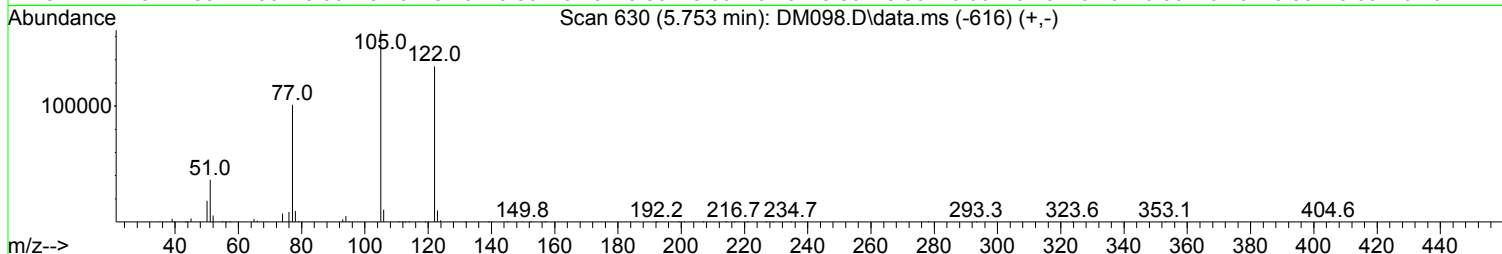
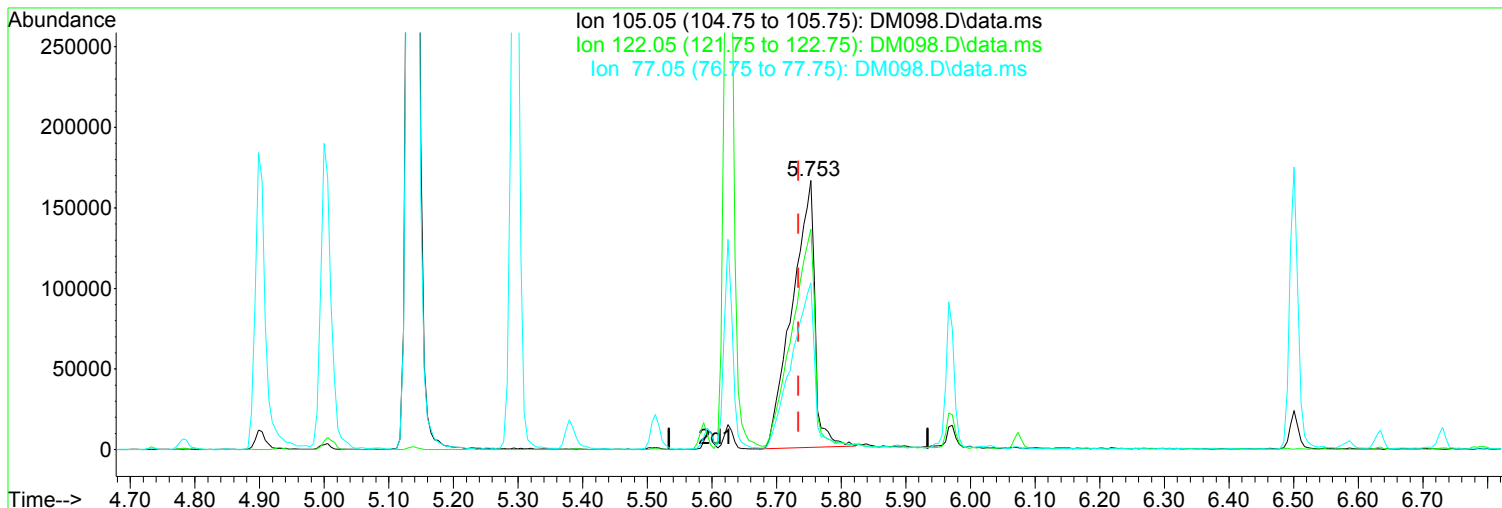
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Acq On : 5 Mar 2018 12:25 pm  
Operator : J.Misiurewicz  
Sample : RQ1801883-01  
Misc : 309261 8270D SOIL BLK  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 13:04:30 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM098.D  
 Acq On : 2 Mar 2018 6:34 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-02  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 06:29:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration



TIC: DM098.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.753min (+ 0.019) 140.35 ppm m

After

response 404832

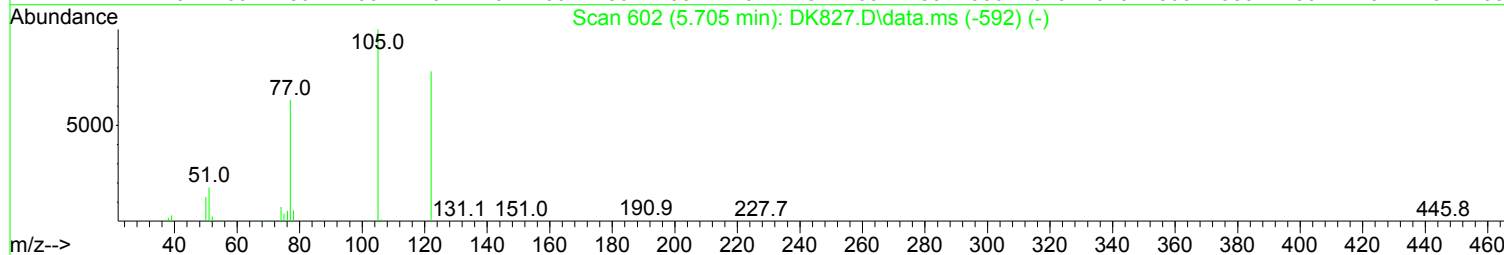
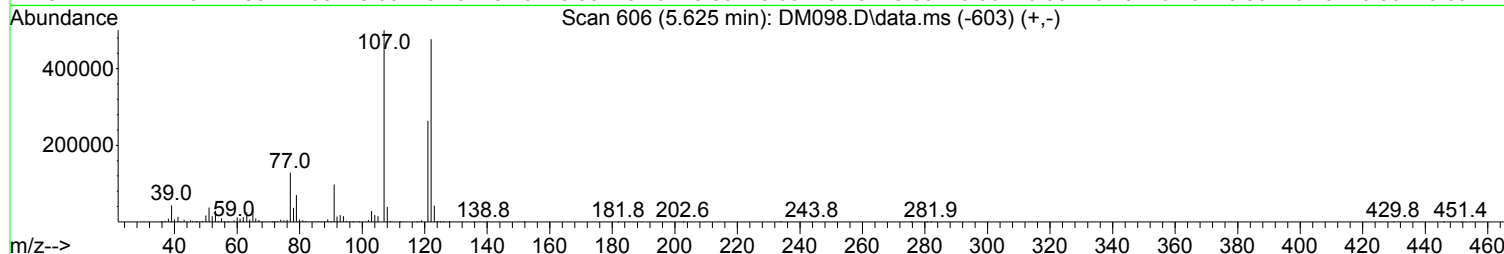
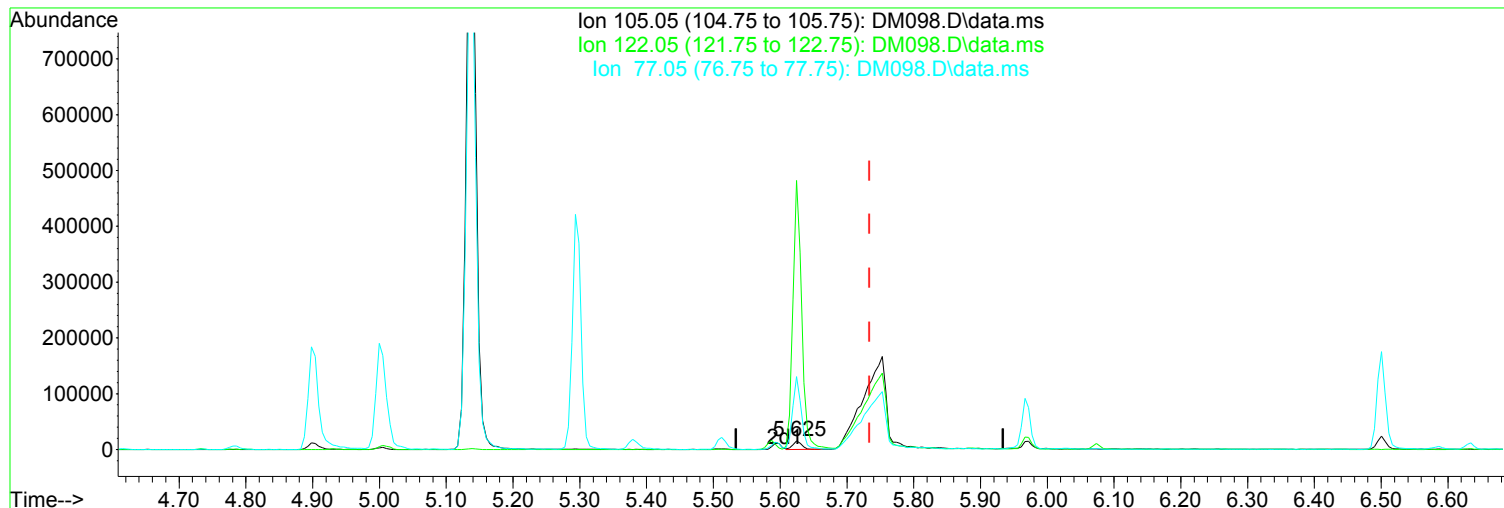
Wrong peak selected.

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	81.99
77.05	68.30	61.99
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM098.D  
 Acq On : 2 Mar 2018 6:34 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-02  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 06:29:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration



TIC: DM098.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.625min (-0.109) 21.24 ppm

Before

response 13982

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	3223.85#
77.05	68.30	867.99#
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM098.D  
 Acq On : 2 Mar 2018 6:34 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-02  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 06:29:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.781	152	198190	40.00	ppm	-0.02
24) d8-Naphthalene	5.945	136	758134	40.00	ppm	-0.02
42) d10-Acenaphthene	7.654	164	366921	40.00	ppm	-0.02
69) d10-Phenanthrene	9.123	188	537400	40.00	ppm	-0.02
82) d12-Chrysene	12.408	240	467822	40.00	ppm	-0.03
91) d12-Perylene	15.351	264	469662	40.00	ppm	-0.03

System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.723	112	924841	144.09	ppm	-0.01
Spiked Amount	200.000	Range	16 - 129	Recovery	=	72.05%
8) SURR2,PHENOL-D6	4.466	99	1163631	146.23	ppm	0.00
Spiked Amount	200.000	Range	10 - 145	Recovery	=	73.11%
25) SURR4,NITROBENZENE-D5	5.278	82	433887	77.81	ppm	-0.02
Spiked Amount	100.000	Range	11 - 91	Recovery	=	77.81%
48) SURR5,2-FLUOROBIPHENYL	6.987	172	916787	70.70	ppm	-0.02
Spiked Amount	100.000	Range	14 - 102	Recovery	=	70.70%
67) SURR3,2,4,6-TRIBROMOPH...	8.439	330	284216	162.43	ppm	-0.02
Spiked Amount	200.000	Range	10 - 109	Recovery	=	81.22%
85) SURR6,TERPHENYL-D14	10.816	244	1030031	102.53	ppm	-0.03
Spiked Amount	100.000	Range	16 - 120	Recovery	=	102.53%

Target Compounds						Qvalue
2) Pyridine	2.730	79	289120	44.887	ppm	92
3) N-Nitrosodimethylamine	2.698	74	210454	66.913	ppm	94
6) Benzaldehyde	4.412	106	337442	80.198	ppm	98
7) Aniline	4.503	93	639859	55.488	ppm	98
9) Phenol	4.476	94	599701	76.421	ppm	99
10) bis(2-Clethyl)Ether	4.540	93	402636	68.763	ppm	90
11) 2-Chlorophenol	4.610	128	478541	73.155	ppm	100
12) 1,3-Diclbzene	4.733	146	466806	66.591	ppm	98
13) 1,4-Dichlorobenzene	4.797	146	477760	66.691	ppm	100
14) 1,2-Diclbzene	4.930	146	468797	69.258	ppm	98
15) Benzyl Alcohol	4.898	79	344914	73.747	ppm	98
17) 2,2'-oxybis(1-Chloropr...	5.005	45	362484	68.366	ppm	# 73
18) 2-Methylphenol	5.000	108	434846	73.997	ppm	97
19) 3+4-Methylphenol	5.139	108	461387	72.367	ppm	100
20) Acetophenone	5.139	105	1098130	128.419	ppm	91
21) N-Nitroso-Di-n-propyla...	5.128	70	275953	65.183	ppm	93
22) Hexachloroethane	5.235	117	169561	64.236	ppm	95
23) Alpha-terpinol	5.972	121	178529	78.893	ppm	91
26) Nitrobenzene	5.294	77	380795	66.396	ppm	90
27) Isophorone	5.513	82	712906	64.779	ppm	99
28) 2-Nitrophenol	5.587	139	241129	84.745	ppm	98
29) 2,4-Dimethylphenol	5.625	107	467132	77.374	ppm	94
30) bis(-2-Chloroethoxy)Me...	5.705	93	500601	73.900	ppm	98
31) Benzoic Acid	5.753	105	404832m	140.347	ppm	
32) 2,4-Dichlorophenol	5.822	162	370743	78.757	ppm	96
33) 1,2,4-Trichlorobenzene	5.892	180	367435	71.145	ppm	97
34) Naphthalene	5.967	128	1304918	69.254	ppm	100
35) 4-Chloroaniline	6.020	127	440683	50.070	ppm	99
37) Hexachlorobutadiene	6.073	225	187442	74.211	ppm	99
38) 4-Chloro-3-methylphenol	6.501	107	361780	75.984	ppm	99
39) Caprolactam	6.372	113	148946	75.898	ppm	87
40) 2-Methylnaphthalene	6.634	142	855002	70.478	ppm	99
41) 1-Methylnaphthalene	6.730	142	819540	72.333	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM098.D  
 Acq On : 2 Mar 2018 6:34 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-02  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 06:29:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

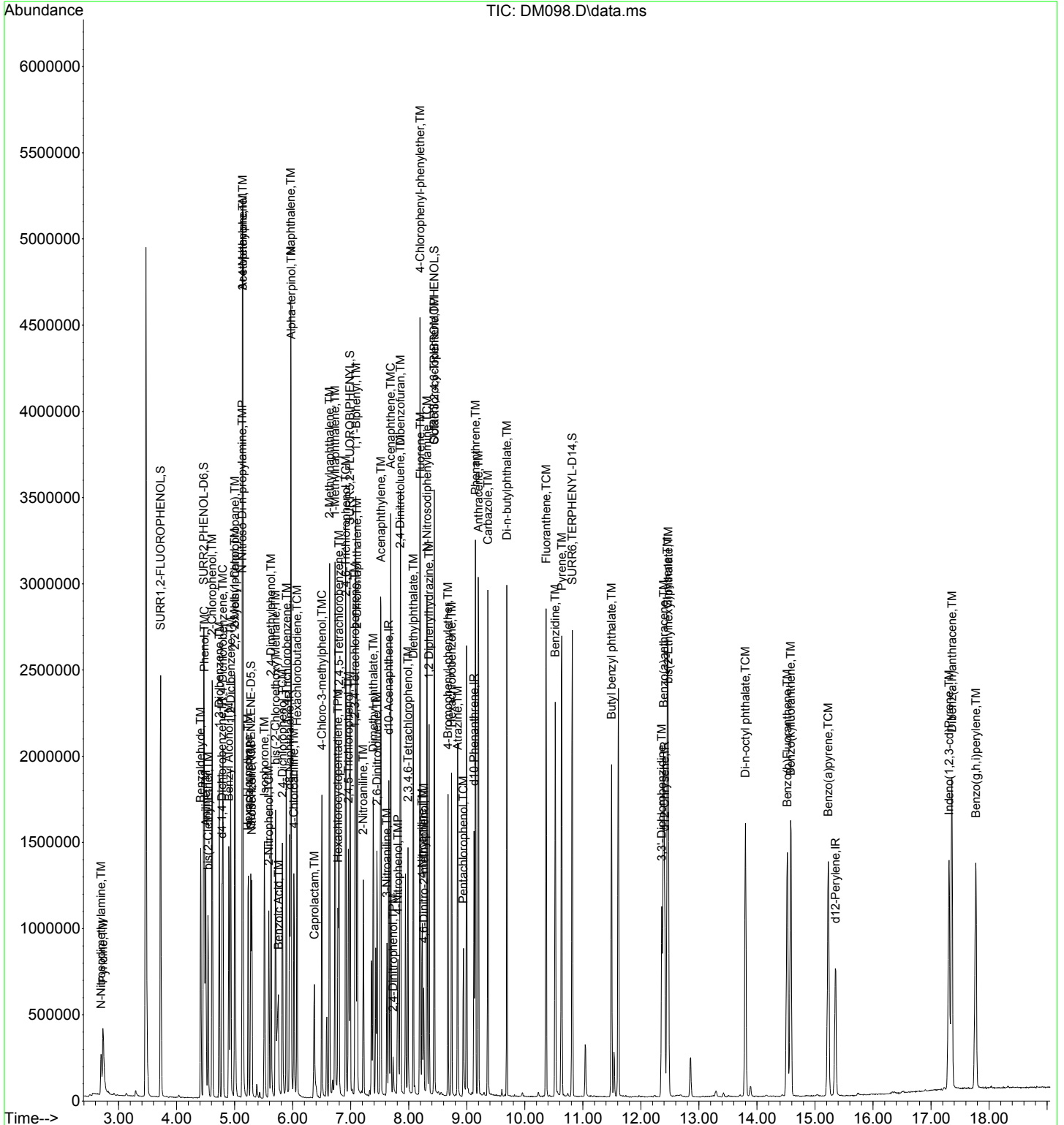
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.778	237	155830	59.394	ppm	98
44) 1,2,4,5-Tetrachloroben...	6.794	216	332600	68.103	ppm	98
45) 1,2,3,4-Tetrachloroben...	7.072	216	314873	66.406	ppm	99
46) 2,4,6-Trichlorophenol	6.917	196	228271	75.505	ppm	97
47) 2,4,5-Trichlorophenol	6.960	196	243027	76.459	ppm	100
49) 1,1'-Biphenyl	7.088	154	1028967	69.739	ppm	99
50) 2-Chloronaphthalene	7.109	162	746951	68.935	ppm	97
51) 2-Nitroaniline	7.216	65	184279	81.094	ppm	100
52) Acenaphthylene	7.521	152	1281472	71.914	ppm	99
53) Dimethyl phthalate	7.387	163	778305	64.570	ppm	99
54) 2,6-Dinitrotoluene	7.451	165	199415	81.907	ppm	99
55) Acenaphthene	7.686	153	813013	66.711	ppm	99
56) 3-Nitroaniline	7.622	138	176932	61.310	ppm	97
57) 2,4-Dinitrophenol	7.729	184	45966	74.071	ppm	80
58) Dibenzofuran	7.857	168	1073440	71.291	ppm	93
59) 2,4-Dinitrotoluene	7.852	165	252686	80.086	ppm	94
60) 4-Nitrophenol	7.815	65	118746	68.946	ppm	93
62) 2,3,4,6-Tetrachlorophenol	7.985	232	170026	81.029	ppm	98
63) Fluorene	8.199	166	854252	68.686	ppm	99
64) 4-Chlorophenyl-phenyle...	8.194	204	370613	74.028	ppm	93
65) Diethylphthalate	8.076	149	772425	63.707	ppm	97
66) 4-Nitroaniline	8.231	138	223270	67.288	ppm	96
68) Octachlorocyclopentene	8.439	307	118022	67.893	ppm	96
70) 4,6-Dinitro-2-methylph...	8.258	198	105367	84.081	ppm	87
71) 1,2 Diphenylhydrazine	8.349	77	752678	77.683	ppm	98
72) N-Nitrosodiphenylamine	8.311	169	716980	89.184	ppm	99
73) 4-Bromophenyl-phenylether	8.674	248	209841	82.901	ppm	98
74) Hexachlorobenzene	8.739	284	255620	81.113	ppm	100
75) Atrazine	8.845	215	127544	86.540	ppm	95
76) Pentachlorophenol	8.941	266	120872	101.992	ppm	98
77) Phenanthrene	9.150	178	1146337	81.278	ppm	99
78) Anthracene	9.198	178	1175618	83.548	ppm	98
79) Carbazole	9.363	167	1159847	79.751	ppm	99
80) Di-n-butylphthalate	9.689	149	1409044	80.537	ppm	99
81) Fluoranthene	10.368	202	1186283	82.283	ppm	99
83) Benzidine	10.522	184	971930	105.510	ppm	99
84) Pyrene	10.635	202	1209602	87.389	ppm	99
86) Butyl benzyl phthalate	11.495	149	594690	79.610	ppm	95
87) 3,3'-Dichlorobenzidine	12.360	252	340646	55.722	ppm	99
88) Benzo(a)anthracene	12.392	228	1069729	81.637	ppm	98
89) Chrysene	12.456	228	1023104	83.498	ppm	100
90) bis(2-Ethylhexyl)phtha...	12.472	149	840040	83.490	ppm	97
92) Di-n-octyl phthalate	13.802	149	1380348	81.486	ppm	97
93) Benzo(b)Fluoranthene	14.523	252	1035591	77.652	ppm	95
94) Benzo(k)fluoranthene	14.582	252	1033230	81.951	ppm	98
95) Benzo(a)pyrene	15.228	252	968721	84.466	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.311	276	918105	85.406	ppm	100
97) Dibenz(a,h)anthracene	17.359	278	1137691	96.812	ppm	99
98) Benzo(g,h,i)perylene	17.770	276	917734	85.352	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



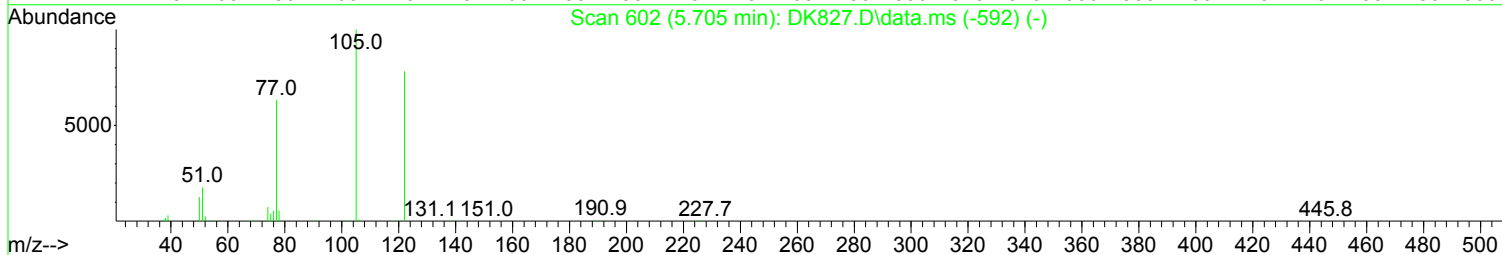
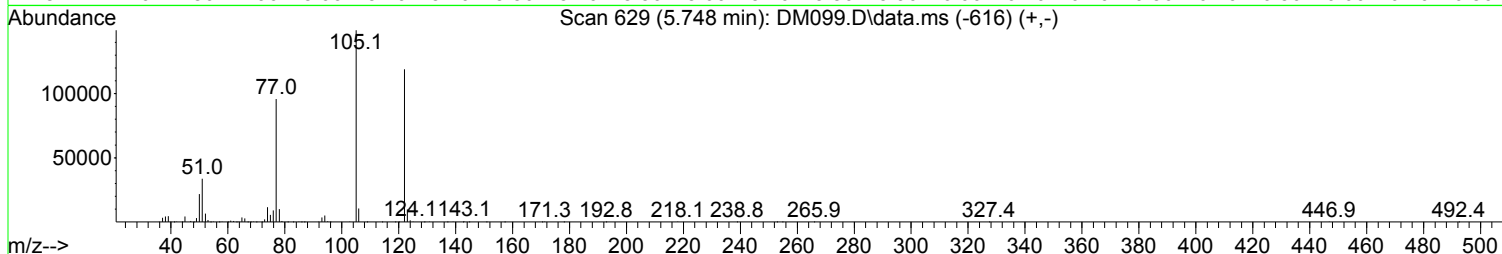
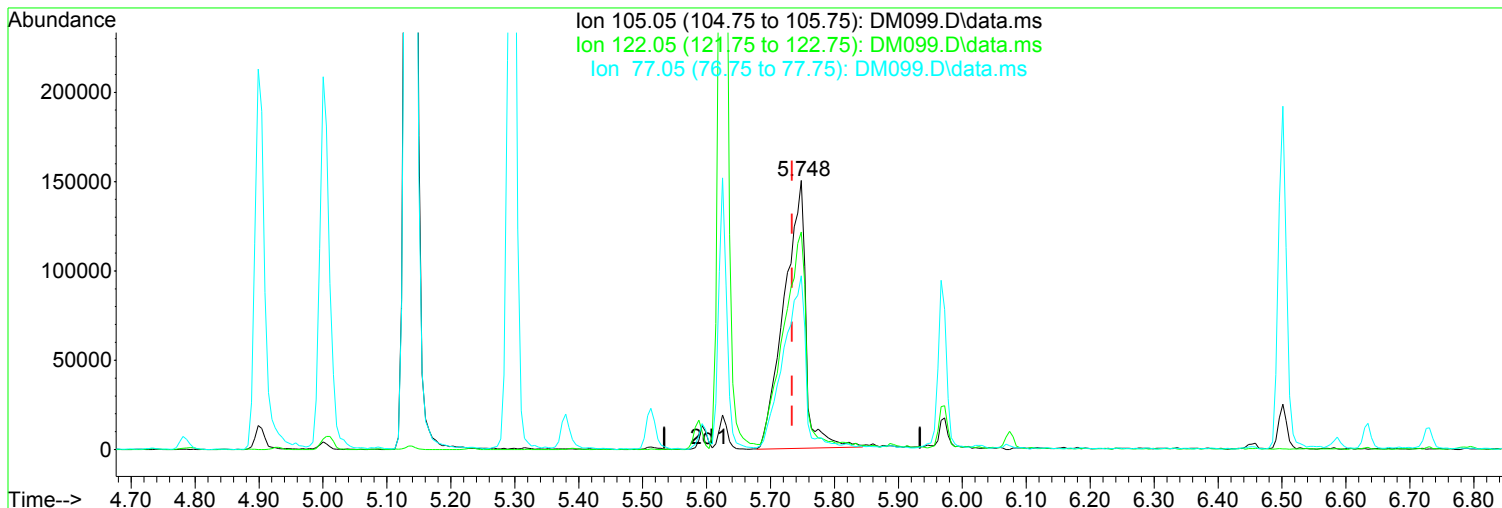
Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM098.D  
Acq On : 2 Mar 2018 6:34 pm  
Operator : J.Misiurewicz  
Sample : RQ1801883-02  
Misc : 309261 8270D SOIL BLK  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 05 06:29:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM099.D  
Acq On : 2 Mar 2018 7:02 pm  
Operator : J.Misiurewicz  
Sample : RQ1801883-03  
Misc : 309261 8270D SOIL BLK  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 06:29:57 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



(31) Benzoic Acid (TM)

Manual Integration:

5.748min (+ 0.014) 132.05 ppm m

After

response 355223

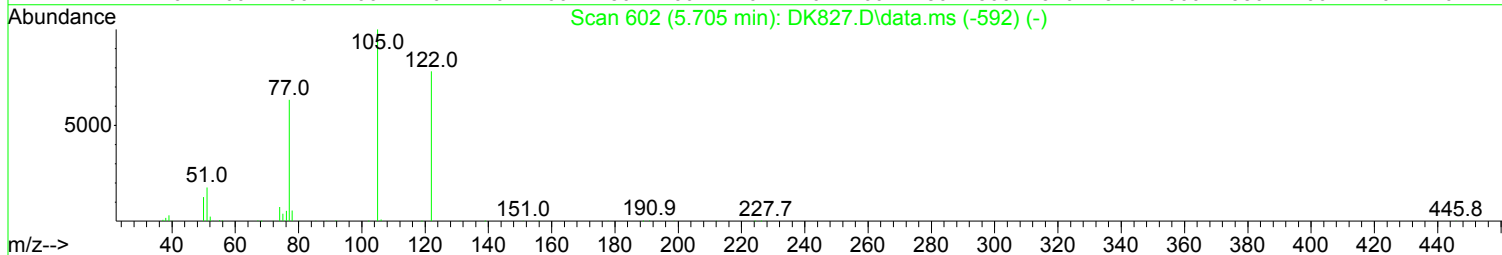
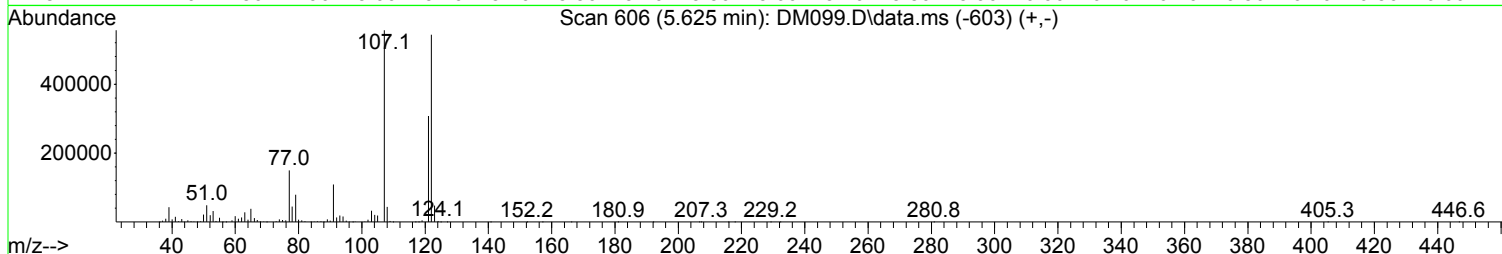
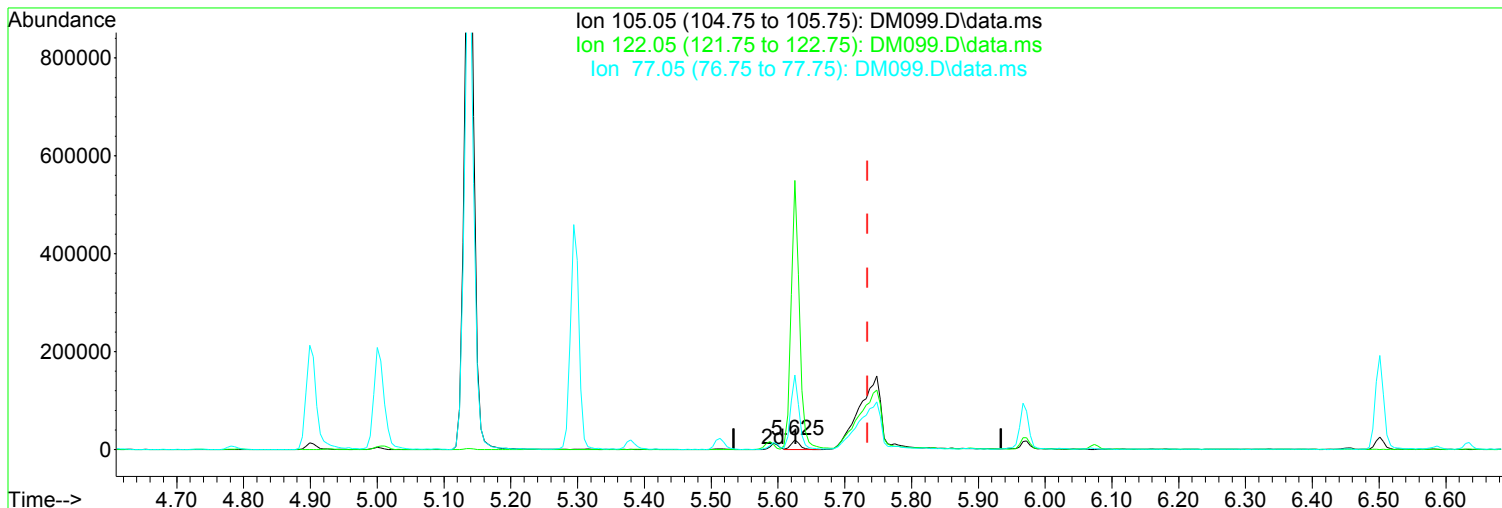
Wrong peak selected.

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	80.90
77.05	68.30	64.54
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM099.D  
Acq On : 2 Mar 2018 7:02 pm  
Operator : J.Misiurewicz  
Sample : RQ1801883-03  
Misc : 309261 8270D SOIL BLK  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 06:29:57 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



TIC: DM099.D\data.ms

(31) Benzoic Acid (TM)

Manual Integration:

5.625min (-0.109) 22.56 ppm

Before

response 17094

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	2890.19#
77.05	68.30	797.05#
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM099.D  
 Acq On : 2 Mar 2018 7:02 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-03  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 06:29:57 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.781	152	185328	40.00	ppm	-0.02	
24) d8-Naphthalene	5.946	136	715238	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.655	164	338079	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.124	188	510369	40.00	ppm	-0.02	
82) d12-Chrysene	12.408	240	447433	40.00	ppm	-0.03	
91) d12-Perylene	15.351	264	452994	40.00	ppm	-0.03	
<b>System Monitoring Compounds</b>							
4) SURR1,2-FLUOROPHENOL	3.724	112	972804	162.08	ppm	-0.01	
Spiked Amount	200.000	Range	16 - 129	Recovery	=	81.04%	
8) SURR2,PHENOL-D6	4.466	99	1234917	165.96	ppm	0.00	
Spiked Amount	200.000	Range	10 - 145	Recovery	=	82.98%	
25) SURR4,NITROBENZENE-D5	5.278	82	467483	88.86	ppm	-0.02	
Spiked Amount	100.000	Range	11 - 91	Recovery	=	88.86%	
48) SURR5,2-FLUOROBIPHENYL	6.987	172	995058	83.28	ppm	-0.02	
Spiked Amount	100.000	Range	14 - 102	Recovery	=	83.28%	
67) SURR3,2,4,6-TRIBROMOPH...	8.440	330	314595	195.13	ppm	-0.02	
Spiked Amount	200.000	Range	10 - 109	Recovery	=	97.56%	
85) SURR6,TERPHENYL-D14	10.817	244	1128589	117.46	ppm	-0.03	
Spiked Amount	100.000	Range	16 - 120	Recovery	=	117.46%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.725	79	305940	50.794	ppm		94
3) N-Nitrosodimethylamine	2.693	74	224621	76.374	ppm		97
6) Benzaldehyde	4.413	106	370992	94.290	ppm		95
7) Aniline	4.498	93	692085	64.182	ppm		94
9) Phenol	4.477	94	656220	89.427	ppm		98
10) bis(2-Clethyl)Ether	4.541	93	429058	78.361	ppm		91
11) 2-Chlorophenol	4.610	128	515742	84.314	ppm		98
12) 1,3-Diclbzene	4.733	146	490498	74.827	ppm		98
13) 1,4-Dichlorobenzene	4.797	146	512710	76.537	ppm		98
14) 1,2-Diclbzene	4.931	146	493618	77.987	ppm		98
15) Benzyl Alcohol	4.899	79	371735	84.998	ppm		96
17) 2,2'-oxybis(1-Chloropr...	5.006	45	389698	78.599	ppm	#	72
18) 2-Methylphenol	5.000	108	473868	86.234	ppm		99
19) 3+4-Methylphenol	5.139	108	497880	83.510	ppm		98
20) Acetophenone	5.139	105	1186586	148.394	ppm		92
21) N-Nitroso-Di-n-propyla...	5.134	70	300472	75.900	ppm		92
22) Hexachloroethane	5.230	117	181512	73.536	ppm		90
23) Alpha-terpinol	5.972	121	199670	94.359	ppm		94
26) Nitrobenzene	5.294	77	407323	75.281	ppm		93
27) Isophorone	5.513	82	785914	75.696	ppm		99
28) 2-Nitrophenol	5.588	139	262066	97.627	ppm		96
29) 2,4-Dimethylphenol	5.625	107	507768	89.149	ppm		99
30) bis(-2-Chloroethoxy)Me...	5.705	93	540028	84.501	ppm		97
31) Benzoic Acid	5.748	105	355223m	132.050	ppm		
32) 2,4-Dichlorophenol	5.823	162	402476	90.626	ppm		98
33) 1,2,4-Trichlorobenzene	5.892	180	402929	82.696	ppm		99
34) Naphthalene	5.967	128	1390689	78.233	ppm		100
35) 4-Chloroaniline	6.020	127	486424	58.582	ppm		99
37) Hexachlorobutadiene	6.074	225	199594	83.761	ppm		100
38) 4-Chloro-3-methylphenol	6.501	107	412505	91.834	ppm		99
39) Caprolactam	6.373	113	164970	89.105	ppm		92
40) 2-Methylnaphthalene	6.635	142	937750	81.935	ppm		99
41) 1-Methylnaphthalene	6.731	142	895687	83.795	ppm		98

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM099.D  
 Acq On : 2 Mar 2018 7:02 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1801883-03  
 Misc : 309261 8270D SOIL BLK  
 ALS Vial : 14 Sample Multiplier: 1

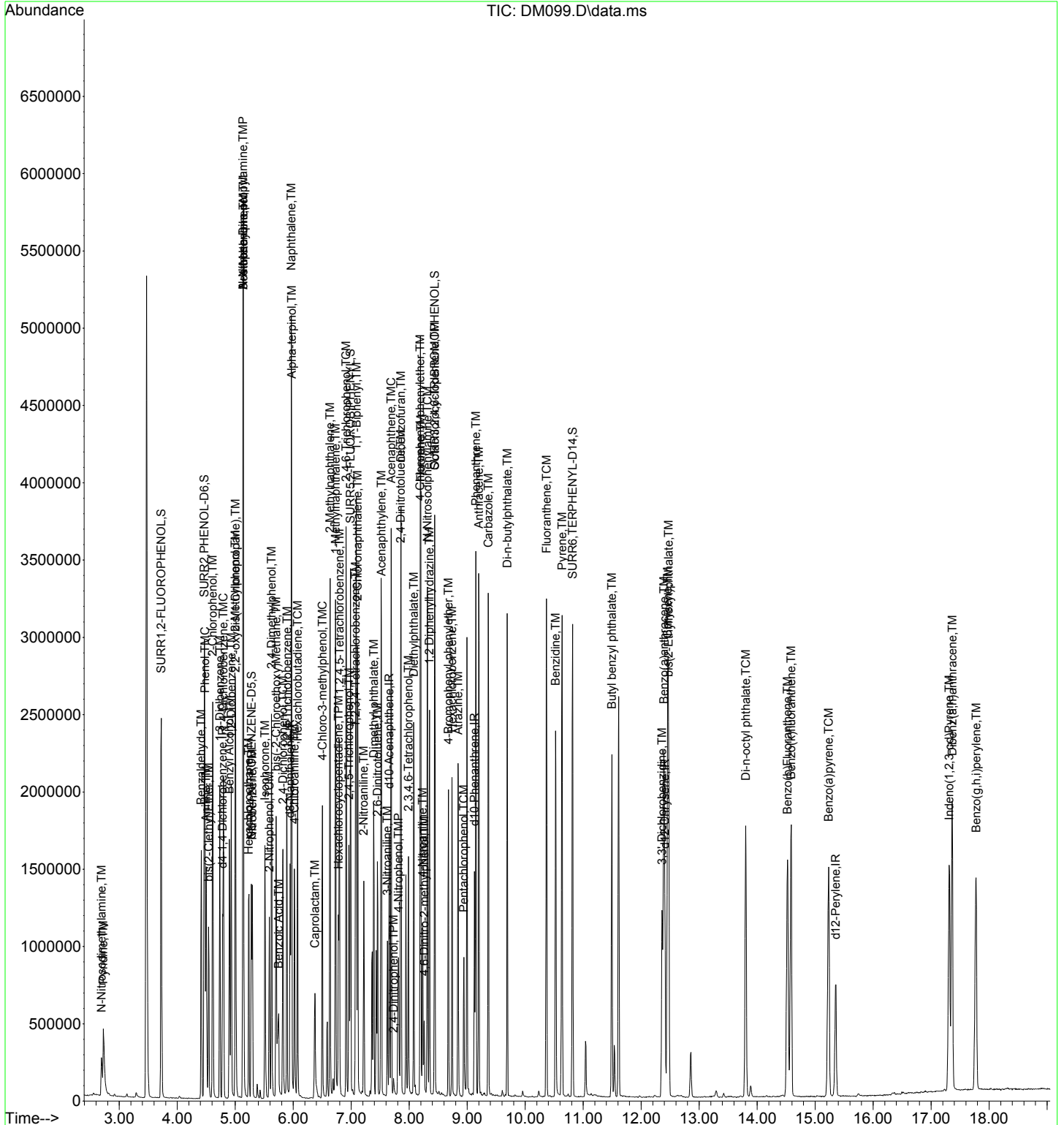
Quant Time: Mar 05 06:29:57 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Hexachlorocyclopentadiene	6.779	237	164897	68.211	ppm	96
44) 1,2,4,5-Tetrachloroben...	6.795	216	370653	82.370	ppm	96
45) 1,2,3,4-Tetrachloroben...	7.073	216	352743	80.739	ppm	99
46) 2,4,6-Trichlorophenol	6.912	196	249096	89.423	ppm	99
47) 2,4,5-Trichlorophenol	6.960	196	266498	90.996	ppm	96
49) 1,1'-Biphenyl	7.089	154	1141718	83.982	ppm	98
50) 2-Chloronaphthalene	7.110	162	815435	81.676	ppm	96
51) 2-Nitroaniline	7.217	65	202214	96.579	ppm	96
52) Acenaphthylene	7.521	152	1408412	85.780	ppm	100
53) Dimethyl phthalate	7.388	163	866215	77.994	ppm	99
54) 2,6-Dinitrotoluene	7.452	165	222255	99.076	ppm	83
55) Acenaphthene	7.687	153	886911	78.984	ppm	99
56) 3-Nitroaniline	7.623	138	188900	71.041	ppm	100
57) 2,4-Dinitrophenol	7.730	184	24455	51.463	ppm	94
58) Dibenzofuran	7.858	168	1155554	83.292	ppm	99
59) 2,4-Dinitrotoluene	7.852	165	285021	94.215	ppm	95
60) 4-Nitrophenol	7.815	65	134881	84.995	ppm	89
62) 2,3,4,6-Tetrachlorophenol	7.986	232	182532	94.411	ppm	98
63) Fluorene	8.200	166	940883	82.106	ppm	100
64) 4-Chlorophenyl-phenyle...	8.189	204	408649	88.589	ppm	97
65) Diethylphthalate	8.077	149	860545	77.030	ppm	98
66) 4-Nitroaniline	8.232	138	250520	81.941	ppm	96
68) Octachlorocyclopentene	8.440	307	128331	80.121	ppm	94
70) 4,6-Dinitro-2-methylph...	8.258	198	83545	73.268	ppm	82
71) 1,2 Diphenylhydrazine	8.349	77	827433	89.922	ppm	98
72) N-Nitrosodiphenylamine	8.312	169	800108	104.796	ppm	100
73) 4-Bromophenyl-phenylether	8.675	248	233531	97.147	ppm	98
74) Hexachlorobenzene	8.739	284	283799	94.825	ppm	99
75) Atrazine	8.846	215	140531	100.402	ppm	95
76) Pentachlorophenol	8.942	266	121448	105.968	ppm	95
77) Phenanthrene	9.150	178	1271161	94.902	ppm	99
78) Anthracene	9.198	178	1313341	98.279	ppm	100
79) Carbazole	9.364	167	1287602	93.224	ppm	99
80) Di-n-butylphthalate	9.690	149	1537592	92.539	ppm	99
81) Fluoranthene	10.368	202	1327712	96.971	ppm	99
83) Benzidine	10.523	184	1059508	120.258	ppm	99
84) Pyrene	10.635	202	1349473	101.936	ppm	98
86) Butyl benzyl phthalate	11.495	149	672432	94.119	ppm	96
87) 3,3'-Dichlorobenzidine	12.360	252	390848	66.848	ppm	99
88) Benzo(a)anthracene	12.392	228	1207021	96.312	ppm	98
89) Chrysene	12.456	228	1143264	97.556	ppm	99
90) bis(2-Ethylhexyl)phtha...	12.472	149	945569	98.261	ppm	99
92) Di-n-octyl phthalate	13.802	149	1548558	94.780	ppm	97
93) Benzo(b)Fluoranthene	14.523	252	1177043	91.506	ppm	97
94) Benzo(k)fluoranthene	14.587	252	1144103	94.084	ppm	97
95) Benzo(a)pyrene	15.234	252	1087688	98.329	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.311	276	1024437	98.804	ppm	99
97) Dibenz(a,h)anthracene	17.365	278	1248181	110.123	ppm	99
98) Benzo(g,h,i)perylene	17.776	276	1026484	98.979	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM099.D  
Acq On : 2 Mar 2018 7:02 pm  
Operator : J.Misiurewicz  
Sample : RQ1801883-03  
Misc : 309261 8270D SOIL BLK  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 05 06:29:57 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM087.D  
 Acq On : 2 Mar 2018 10:45 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 02 12:10:51 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	127	-0.02
2	TM Pyridine	1.300	1.327		-2.1	124	-0.05
3	TM N-Nitrosodimethylamine	0.635	0.662		-4.3	124	-0.05
4	S SURR1,2-FLUOROPHENOL	1.295	1.392		-7.5	133	-0.02
5	TM N-Nitrosodiethylamine	0.717	0.637		11.2	109	-0.03
6	TM Benzaldehyde	0.849	0.866		-2.0	127	-0.02
7	TM Aniline	2.327	2.442		-4.9	130	-0.02
8	S SURR2,PHENOL-D6	1.606	1.705		-6.2	131	0.00
9	TMC Phenol	1.584	1.814		-14.5	146	0.00
10	TM bis(2-Clethyl)Ether	1.182	1.215		-2.8	130	-0.02
11	TM 2-Chlorophenol	1.320	1.434		-8.6	136	-0.02
12	TM 1,3-Diclbzence	1.415	1.504		-6.3	134	-0.02
13	TMC 1,4-Dichlorobenzene	1.446	1.538		-6.4	134	-0.02
14	TM 1,2-Diclbzence	1.366	1.460		-6.9	134	-0.02
15	TM Benzyl Alcohol	0.944	1.003		-6.2	129	-0.02
16	T 1-Methyl-2-pyrrolidinone	0.844	0.861		-2.0	123	0.00
17	TM 2,2'-oxybis(1-Chloropropane	1.070	0.951		11.1	112	-0.02
18	TM 2-Methylphenol	1.186	1.253		-5.6	132	0.00
19	TM 3+4-Methylphenol	1.287	1.474		-14.5	145	0.00
20	TM Acetophenone	1.726	1.767		-2.4	130	-0.02
21	TMP N-Nitroso-Di-n-propylamine	0.854	0.857		-0.4	124	-0.02
22	TM Hexachloroethane	0.533	0.578		-8.4	137	-0.03
23	TM Alpha-terpinol	0.457	0.482		-5.5	132	-0.02
24	IR d8-Naphthalene	1.000	1.000		0.0	122	-0.02
25	S SURR4,NITROBENZENE-D5	0.294	0.346		-17.7	138	-0.02
26	TM Nitrobenzene	0.303	0.341		-12.5	132	-0.01
27	TM Isophorone	0.581	0.620		-6.7	128	-0.02
28	TCM 2-Nitrophenol	0.150	0.202		-34.7#	155	-0.02
29	TM 2,4-Dimethylphenol	0.319	0.347		-8.8	129	-0.01
30	TM bis(-2-Chloroethoxy)Methane	0.357	0.387		-8.4	132	-0.02
31	TM Benzoic Acid	0.119	0.139	-3.2	<del>-16.8</del>	130	0.00
32	TCM 2,4-Dichlorophenol	0.248	0.279		-12.5	133	-0.01
33	TM 1,2,4-Trichlorobenzene	0.272	0.304		-11.8	137	-0.02
34	TM Naphthalene	0.994	1.077		-8.4	133	-0.02
35	TM 4-Chloroaniline	0.464	0.417		10.1	109	-0.01
36	TM 2,6-Dichlorophenol	0.271	0.305		-12.5	136	-0.01
37	TCM Hexachlorobutadiene	0.133	0.152		-14.3	138	-0.03
38	TMC 4-Chloro-3-methylphenol	0.251	0.279		-11.2	133	0.00
39	TM Caprolactam	0.104	0.111		-6.7	126	0.00
40	TM 2-Methylnaphthalene	0.640	0.696		-8.7	134	-0.02
41	TM 1-Methylnaphthalene	0.598	0.645		-7.9	133	-0.02
42	IR d10-Acenaphthene	1.000	1.000		0.0	121	-0.02
43	TPM Hexachlorocyclopentadiene	0.286	0.293		-2.4	117	-0.02
44	TM 1,2,4,5-Tetrachlorobenzene	0.532	0.586		-10.2	135	-0.01
45	TM 1,2,3,4-Tetrachlorobenzene	0.517	0.565		-9.3	134	-0.02
46	TCM 2,4,6-Trichlorophenol	0.330	0.378		-14.5	134	-0.01
47	TM 2,4,5-Trichlorophenol	0.347	0.384		-10.7	132	0.00
48	S SURR5,2-FLUOROBIPHENYL	1.414	1.485		-5.0	129	-0.02
49	TM 1,1'-Biphenyl	1.608	1.677		-4.3	128	-0.02
50	TM 2-Chloronaphthalene	1.181	1.264		-7.0	132	-0.02

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM087.D  
 Acq On : 2 Mar 2018 10:45 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 02 12:10:51 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
51	TM 2-Nitroaniline	0.248	0.287		-15.7	128	-0.01
52	TM Acenaphthylene	1.943	2.059		-6.0	129	-0.02
53	TM Dimethyl phthalate	1.314	1.376		-4.7	133	-0.02
54	TM 2,6-Dinitrotoluene	0.265	0.319		-20.4#	139	-0.01
55	TMC Acenaphthene	1.329	1.391		-4.7	127	-0.02
56	TM 3-Nitroaniline	0.315	0.367		-16.5	138	-0.01
57	TPM 2,4-Dinitrophenol	0.064	0.108	30.4	<del>-68.8#</del>	179	0.00
58	TM Dibenzofuran	1.641	1.718		-4.7	130	-0.02
59	TM 2,4-Dinitrotoluene	0.327	0.419	-17.1	<del>-28.1#</del>	146	0.00
60	TMP 4-Nitrophenol	0.188	0.215		-14.4	137	0.00
61	TM Pentachlorobenzene	0.473	0.505		-6.8	130	-0.01
62	TM 2,3,4,6-Tetrachlorophenol	0.229	0.253		-10.5	131	-0.01
63	TM Fluorene	1.356	1.395		-2.9	126	-0.02
64	TM 4-Chlorophenyl-phenylether	0.546	0.580		-6.2	130	-0.02
65	TM Diethylphthalate	1.322	1.395		-5.5	132	-0.02
66	TM 4-Nitroaniline	0.362	0.395		-9.1	127	0.00
67	S SURR3,2,4,6-TRIBROMOPHENOL	0.191	0.215		-12.6	135	-0.01
68	TM Octachlorocyclopentene	0.190	0.186		2.1	116	-0.02
69	IR dl0-Phenanthrene	1.000	1.000		0.0	113	-0.02
70	TM 4,6-Dinitro-2-methylphenol	0.084	0.134	-32.8	<del>-59.5#</del>	162	0.00
71	TM 1,2 Diphenylhydrazine	0.721	0.751		-4.2	126	-0.02
72	TCM N-Nitrosodiphenylamine	0.598	0.652		-9.0	129	-0.02
73	TM 4-Bromophenyl-phenylether	0.188	0.212		-12.8	136	-0.02
74	TM Hexachlorobenzene	0.235	0.259		-10.2	132	-0.01
75	TM Atrazine	0.110	0.106		3.6	107	-0.01
76	TCM Pentachlorophenol	0.072	0.107	-23.6	<del>-48.6#</del>	156	0.00
77	TM Phenanthrene	1.050	1.173		-11.7	128	-0.01
78	TM Anthracene	1.047	1.198		-14.4	128	-0.02
79	TM Carbazole	1.083	1.179		-8.9	121	-0.01
80	TM Di-n-butylphthalate	1.302	1.518		-16.6	126	-0.02
81	TCM Fluoranthene	1.073	1.187		-10.6	121	-0.02
82	IR dl2-Chrysene	1.000	1.000		0.0	105	-0.02
83	TM Benzidine	0.788	0.812		-3.0	104	-0.01
84	TM Pyrene	1.183	1.380		-16.7	120	-0.02
85	S SURR6,TERPHENYL-D14	0.859	1.014		-18.0	121	-0.02
86	TM Butyl benzyl phthalate	0.639	0.721		-12.8	116	-0.03
87	TM 3,3'-Dichlorobenzidine	0.523	0.486		7.1	94	-0.02
88	TM Benzo(a)anthracene	1.120	1.238		-10.5	116	-0.02
89	TM Chrysene	1.048	1.137		-8.5	115	-0.02
90	TM bis(2-Ethylhexyl)phthalate	0.860	1.007		-17.1	117	-0.04
91	IR dl2-Perylene	1.000	1.000		0.0	109	-0.02
92	TCM Di-n-octyl phthalate	1.443	1.641		-13.7	117	-0.04
93	TM Benzo(b)fluoranthene	1.136	1.254		-10.4	117	-0.01
94	TM Benzo(k)fluoranthene	1.074	1.205		-12.2	119	-0.01
95	TCM Benzo(a)pyrene	0.977	1.120		-14.6	120	-0.01
96	TM Indeno(1,2,3-cd)Pyrene	0.916	1.078		-17.7	124	0.00
97	TM Dibenz(a,h)anthracene	1.001	1.158		-15.7	122	0.00
98	TM Benzo(g,h,i)perylene	0.916	1.029		-12.3	122	0.00



Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM087.D  
Acq On : 2 Mar 2018 10:45 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 02 12:10:51 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range                      SPCC's out = 0    CCC's out = 2

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM087.D  
 Acq On : 2 Mar 2018 10:45 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 02 12:10:51 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.781	152	206150	40.00	ppm	-0.02	
24) d8-Naphthalene	5.950	136	764238	40.00	ppm	-0.02	
42) d10-Acenaphthene	7.660	164	362171	40.00	ppm	-0.02	
69) d10-Phenanthrene	9.128	188	570810	40.00	ppm	-0.02	
82) d12-Chrysene	12.413	240	501910	40.00	ppm	-0.02	
91) d12-Perylene	15.361	264	524629	40.00	ppm	-0.02	
System Monitoring Compounds							
4) SURR1,2-FLUOROPHENOL	3.718	112	573954	85.97	ppm	-0.02	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	42.98%	
8) SURR2,PHENOL-D6	4.466	99	703010	84.93	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	42.47%	
25) SURR4,NITROBENZENE-D5	5.277	82	528622	94.04	ppm	-0.02	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	94.04%	
48) SURR5,2-FLUOROBIPHENYL	6.992	172	1075502	84.03	ppm	-0.02	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	84.03%	
67) SURR3,2,4,6-TRIBROMOPH...	8.445	330	156004	90.33	ppm	-0.01	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	45.16%	
85) SURR6,TERPHENYL-D14	10.822	244	1018289	94.47	ppm	-0.02	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	94.47%	
Target Compounds							
							Qvalue
2) Pyridine	2.714	79	547170	81.669	ppm		92
3) N-Nitrosodimethylamine	2.676	74	273030	83.457	ppm		92
5) N-Nitrosodiethylamine	3.884	102	262694	71.072	ppm		94
6) Benzaldehyde	4.412	106	356893	81.545	ppm		98
7) Aniline	4.498	93	1006758	83.934	ppm		92
9) Phenol	4.482	94	747781	91.612	ppm		99
10) bis(2-Clethyl)Ether	4.540	93	500905	82.243	ppm		94
11) 2-Chlorophenol	4.610	128	591341	86.909	ppm		98
12) 1,3-Diclbzene	4.733	146	620278	85.067	ppm		98
13) 1,4-Dichlorobenzene	4.797	146	634200	85.110	ppm		100
14) 1,2-Diclbzene	4.930	146	602091	85.516	ppm		98
15) Benzyl Alcohol	4.898	79	413713	85.042	ppm		98
16) 1-Methyl-2-pyrrolidinone	4.957	99	355179	81.660	ppm		94
17) 2,2'-oxybis(1-Chloropr...	5.005	45	392254	71.124	ppm		94
18) 2-Methylphenol	5.016	108	516796	84.547	ppm		97
19) 3+4-Methylphenol	5.149	108	607912	91.667	ppm		95
20) Acetophenone	5.139	105	728675	81.924	ppm		89
21) N-Nitroso-Di-n-propyla...	5.133	70	353244	80.218	ppm		86
22) Hexachloroethane	5.229	117	238192	86.752	ppm		92
23) Alpha-terpinol	5.972	121	198885	84.495	ppm		92
26) Nitrobenzene	5.299	77	521639	90.227	ppm		87
27) Isophorone	5.513	82	948279	85.478	ppm		100
28) 2-Nitrophenol	5.587	139	308047	107.399	ppm		97
29) 2,4-Dimethylphenol	5.630	107	530828	87.222	ppm		99
30) bis(-2-Chloroethoxy)Me...	5.705	93	590858	86.527	ppm		100
31) Benzoic Acid	5.742	105	212818	82.581	ppm		94
32) 2,4-Dichlorophenol	5.828	162	426406	89.858	ppm		96
33) 1,2,4-Trichlorobenzene	5.892	180	464665	89.252	ppm		97
34) Naphthalene	5.972	128	1645592	86.637	ppm		100
35) 4-Chloroaniline	6.025	127	637326	71.834	ppm		99
36) 2,6-Dichlorophenol	6.036	162	466399	90.049	ppm		95
37) Hexachlorobutadiene	6.073	225	232304	91.237	ppm		100
38) 4-Chloro-3-methylphenol	6.506	107	426603	88.883	ppm		97

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM087.D  
 Acq On : 2 Mar 2018 10:45 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 02 12:10:51 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

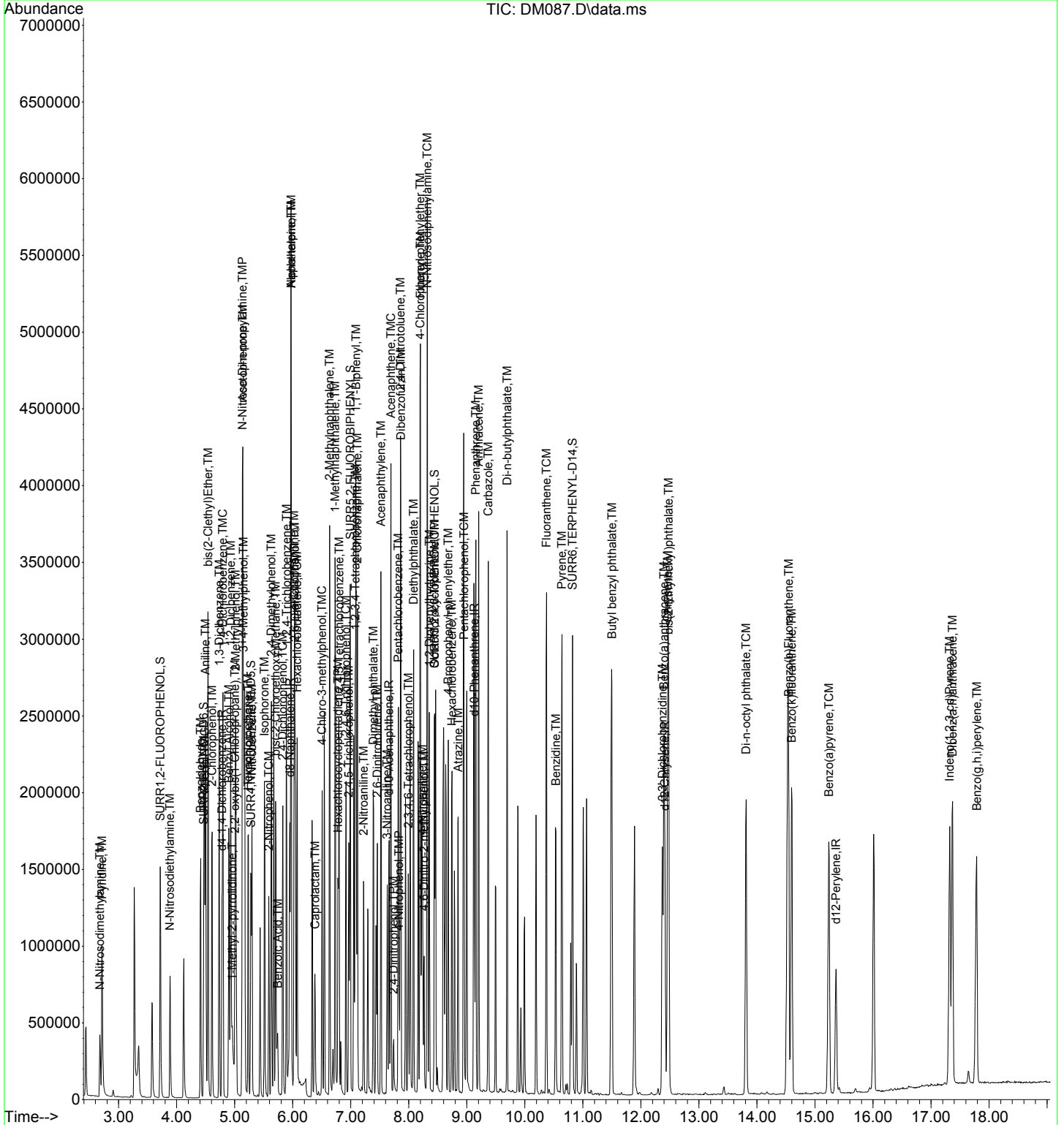
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Caprolactam	6.383	113	169135	85.497	ppm	84
40) 2-Methylnaphthalene	6.634	142	1063885	86.996	ppm	97
41) 1-Methylnaphthalene	6.730	142	985773	86.310	ppm	98
43) Hexachlorocyclopentadiene	6.778	237	212228	81.950	ppm	98
44) 1,2,4,5-Tetrachloroben...	6.800	216	424660	88.094	ppm	96
45) 1,2,3,4-Tetrachloroben...	7.077	216	409329	87.459	ppm	97
46) 2,4,6-Trichlorophenol	6.917	196	273967	91.809	ppm	97
47) 2,4,5-Trichlorophenol	6.965	196	278067	88.630	ppm	98
49) 1,1'-Biphenyl	7.088	154	1214613	83.401	ppm	99
50) 2-Chloronaphthalene	7.115	162	915800	85.627	ppm	97
51) 2-Nitroaniline	7.222	65	207644	92.575	ppm	91
52) Acenaphthylene	7.521	152	1491583	84.803	ppm	99
53) Dimethyl phthalate	7.387	163	996744	83.776	ppm	100
54) 2,6-Dinitrotoluene	7.457	165	230722	96.009	ppm	96
55) Acenaphthene	7.692	153	1007766	83.776	ppm	99
56) 3-Nitroaniline	7.628	138	265894	93.345	ppm	99
57) 2,4-Dinitrophenol	7.740	184	77931	104.320	ppm	80
58) Dibenzofuran	7.863	168	1244730	83.752	ppm	99
59) 2,4-Dinitrotoluene	7.857	165	303165	93.683	ppm	96
60) 4-Nitrophenol	7.831	65	156025	91.778	ppm	95
61) Pentachlorobenzene	7.820	250	365810	85.406	ppm	98
62) 2,3,4,6-Tetrachlorophenol	7.991	232	183077	88.393	ppm	97
63) Fluorene	8.199	166	1010161	82.287	ppm	99
64) 4-Chlorophenyl-phenyle...	8.194	204	419905	84.973	ppm	94
65) Diethylphthalate	8.082	149	1010761	84.457	ppm	99
66) 4-Nitroaniline	8.236	138	286352	87.431	ppm	95
68) Octachlorocyclopentene	8.445	307	135058	78.712	ppm	94
70) 4,6-Dinitro-2-methylph...	8.263	198	153197	106.202	ppm	86
71) 1,2 Diphenylhydrazine	8.354	77	857033	83.276	ppm	96
72) N-Nitrosodiphenylamine	8.317	169	1489207	174.399	ppm	99
73) 4-Bromophenyl-phenylether	8.680	248	241461	89.810	ppm	99
74) Hexachlorobenzene	8.744	284	295447	88.264	ppm	98
75) Atrazine	8.851	215	121472	77.596	ppm	92
76) Pentachlorophenol	8.952	266	122629	98.851	ppm	99
77) Phenanthrene	9.155	178	1339481	89.414	ppm	99
78) Anthracene	9.203	178	1368040	91.533	ppm	99
79) Carbazole	9.369	167	1345408	87.095	ppm	98
80) Di-n-butylphthalate	9.695	149	1732573	93.232	ppm	99
81) Fluoranthene	10.373	202	1355302	88.505	ppm	99
83) Benzidine	10.533	184	814995	82.465	ppm	97
84) Pyrene	10.640	202	1385398	93.291	ppm	99
86) Butyl benzyl phthalate	11.500	149	723607	90.289	ppm	96
87) 3,3'-Dichlorobenzidine	12.370	252	487666	74.354	ppm	98
88) Benzo(a)anthracene	12.397	228	1243154	88.429	ppm	99
89) Chrysene	12.461	228	1141323	86.820	ppm	98
90) bis(2-Ethylhexyl)phtha...	12.477	149	1011129	93.669	ppm	97
92) Di-n-octyl phthalate	13.813	149	1721385	90.972	ppm	96
93) Benzo(b)Fluoranthene	14.544	252	1315743	88.322	ppm	97
94) Benzo(k)fluoranthene	14.598	252	1264266	89.769	ppm	99
95) Benzo(a)pyrene	15.239	252	1174702	91.695	ppm	98
96) Indeno(1,2,3-cd)Pyrene	17.322	276	1130624	94.156	ppm	98
97) Dibenz(a,h)anthracene	17.370	278	1214950	92.555	ppm	98
98) Benzo(g,h,i)perylene	17.786	276	1079230	89.856	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



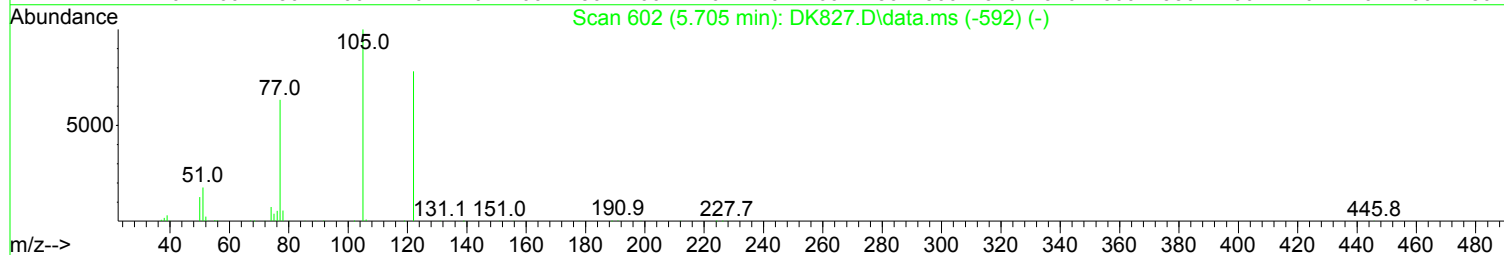
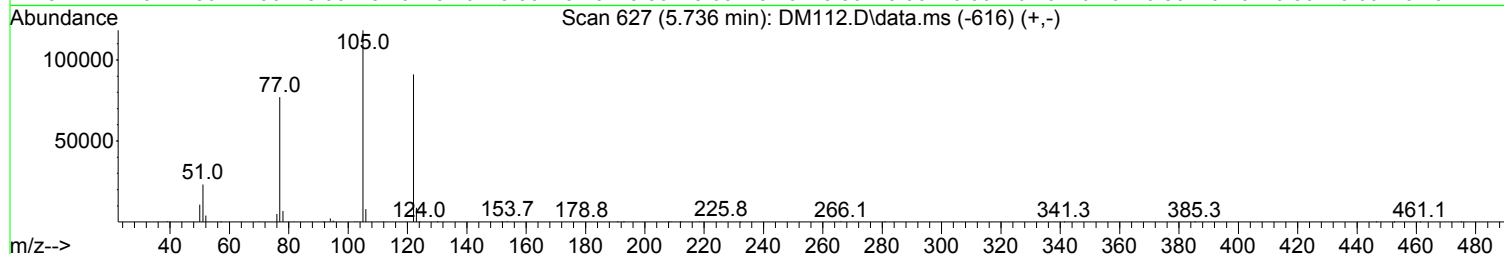
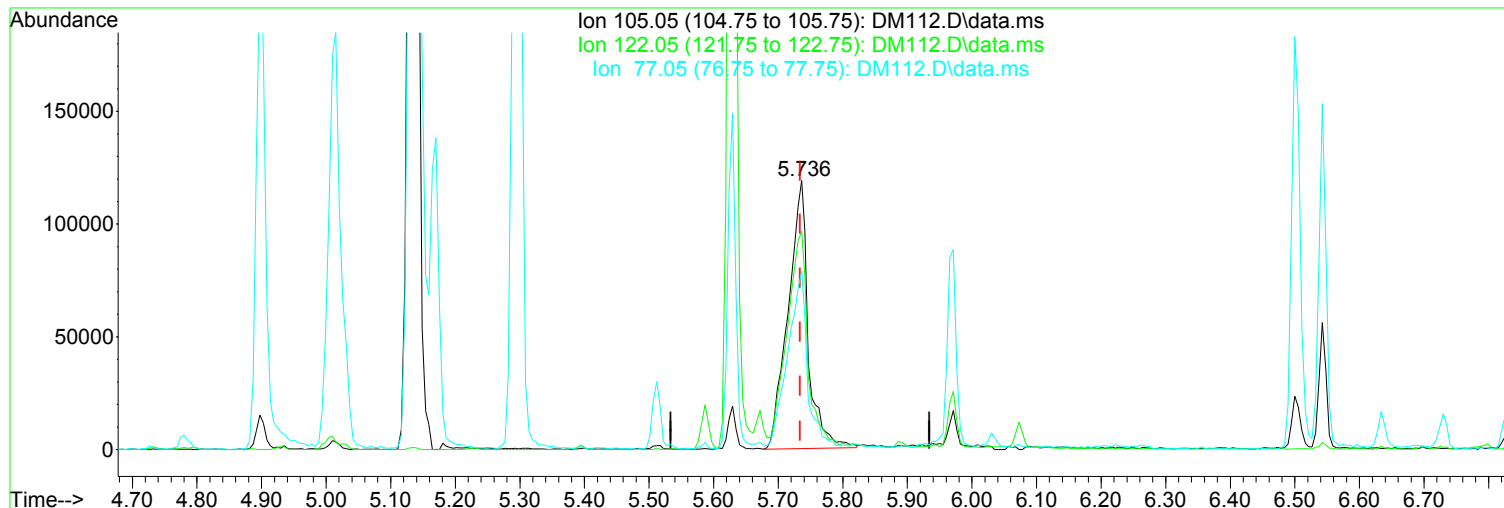
Data Path : I:\ACQUATA\5973A\DATA\030218\  
Data File : DM087.D  
Acq On : 2 Mar 2018 10:45 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 02 12:10:51 2018  
Quant Method : I:\ACQUATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM112.D  
Acq On : 5 Mar 2018 8:35 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



(31) Benzoic Acid (TM)

Manual Integration:

5.736min (+ 0.002) 105.81 ppm m

After

response 259802

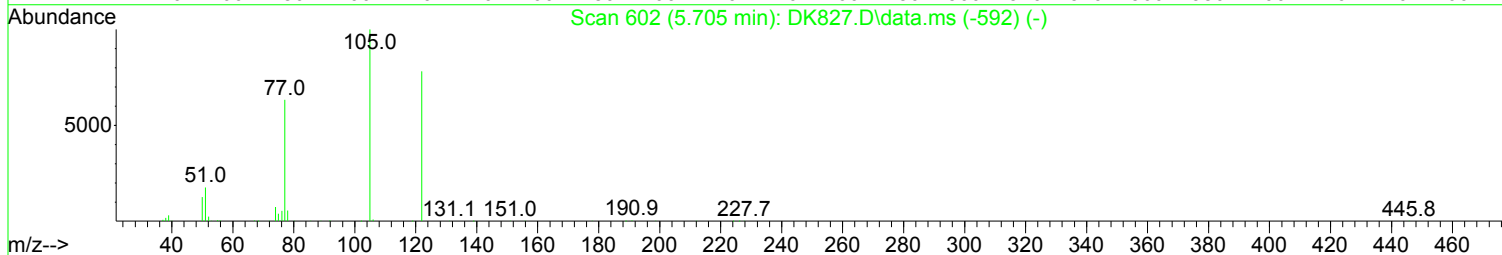
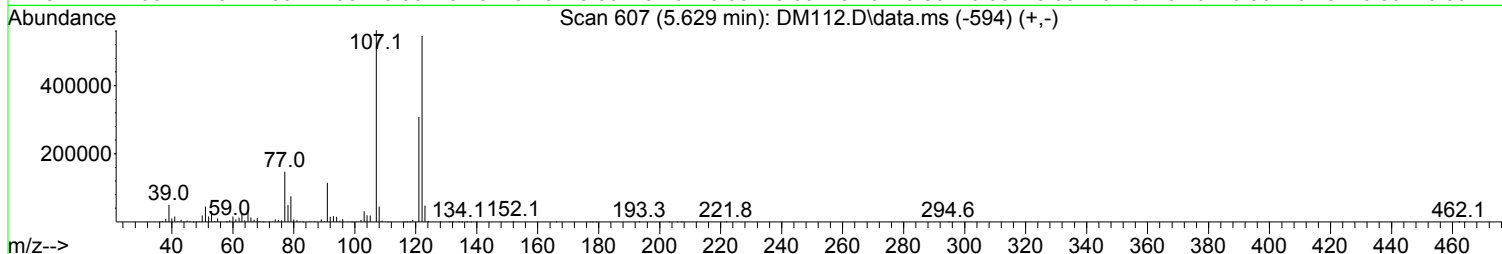
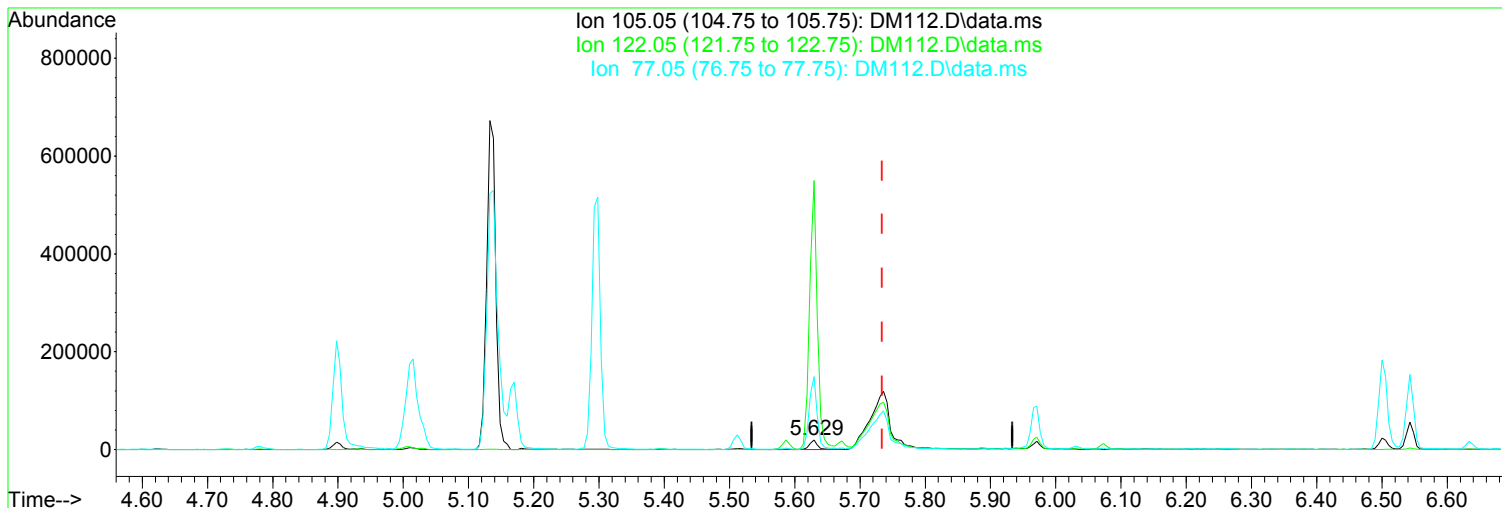
Wrong peak selected.

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	81.19
77.05	68.30	66.37
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM112.D  
Acq On : 5 Mar 2018 8:35 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



(31) Benzoic Acid (TM)

Manual Integration:

5.629min (-0.105) 22.83 ppm

Before

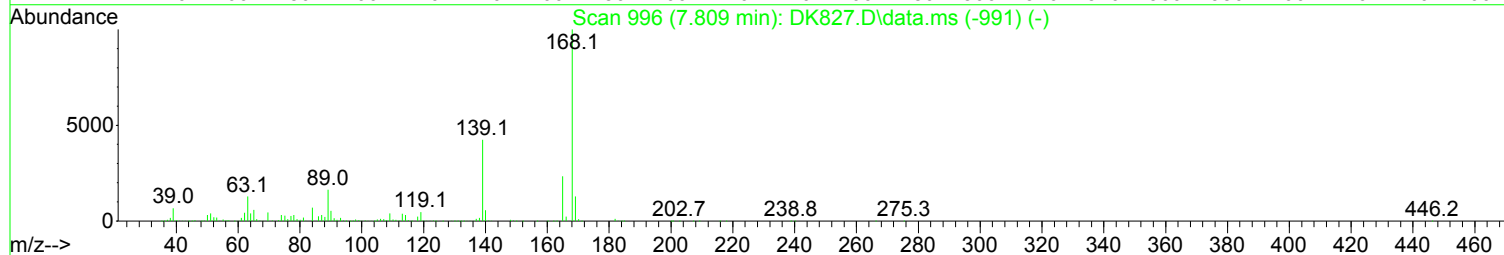
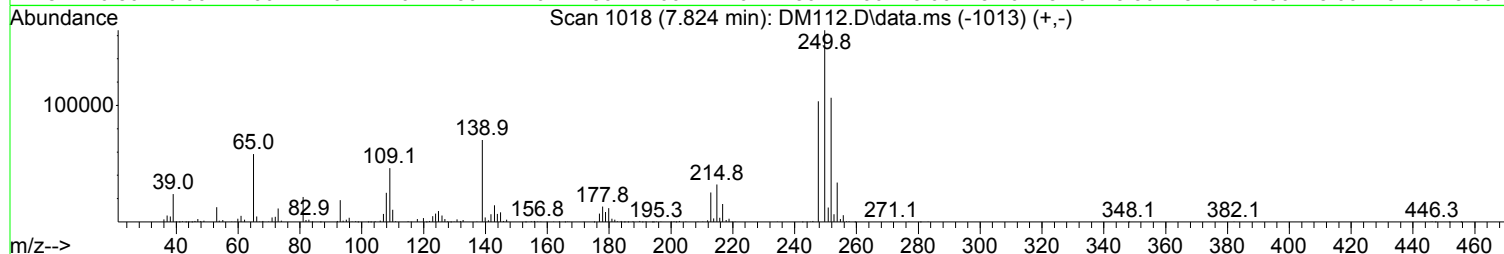
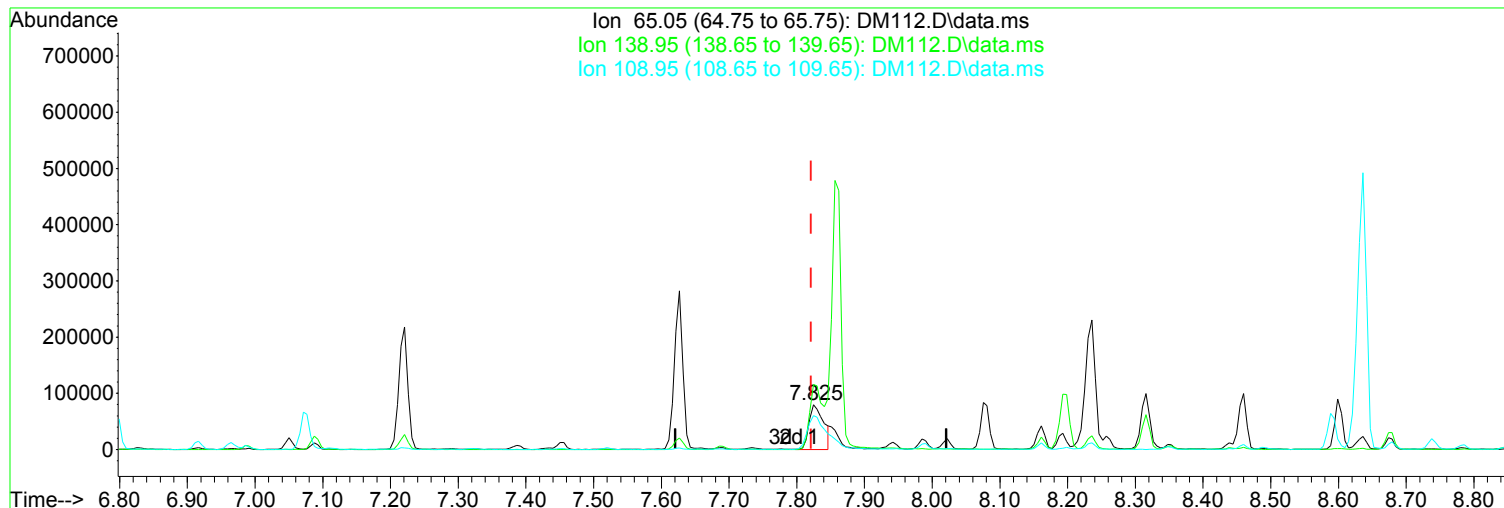
response 17126

Ion	Exp%	Act%
105.05	100.00	100.00
122.05	84.80	2856.88#
77.05	68.30	773.67#
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM112.D  
 Acq On : 5 Mar 2018 8:35 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration



TIC: DM112.D\data.ms

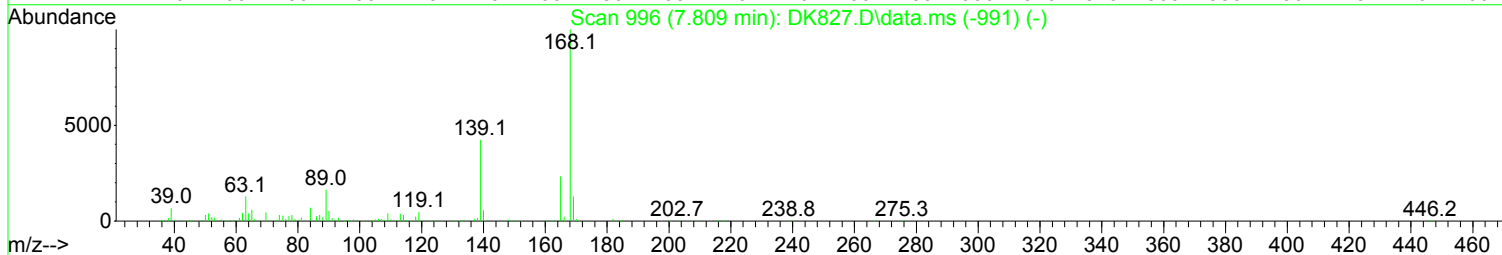
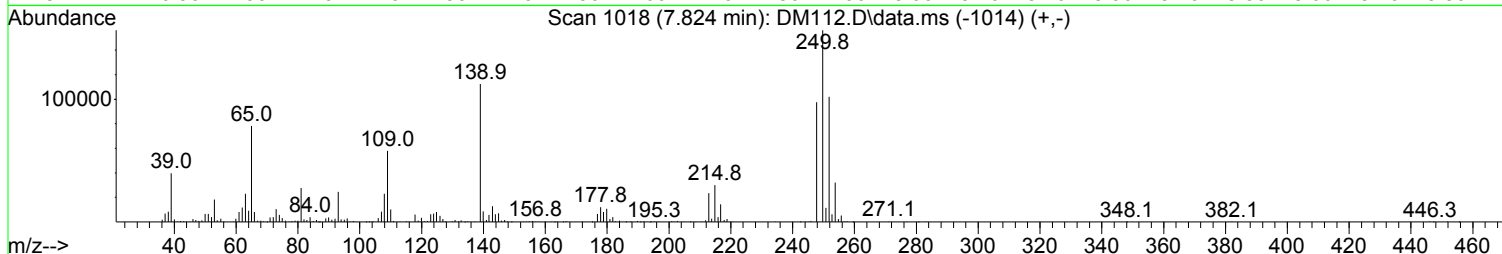
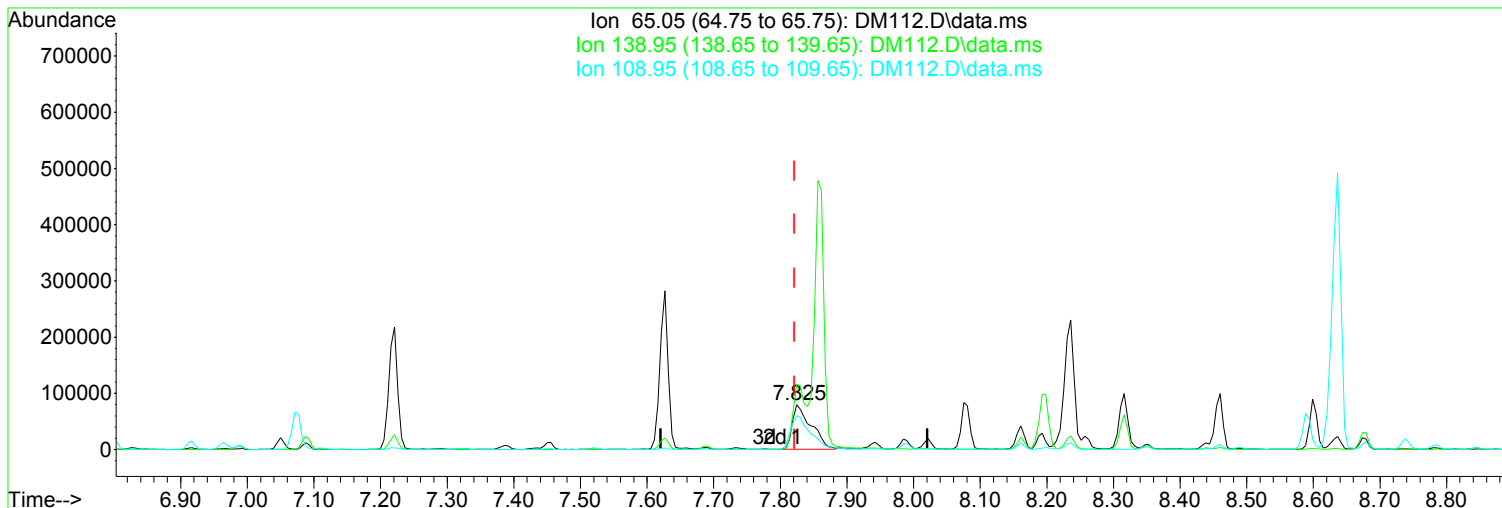
(60) 4-Nitrophenol (TMP)		
7.824min (+ 0.003) 75.66 ppm m		
response	119736	
Ion	Exp%	Act%
65.05	100.00	100.00
138.95	148.60	144.97
108.95	72.40	75.59
0.00	0.00	0.00

Manual Integration:  
 After  
 Split Peak.  
 03/05/18



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM112.D  
Acq On : 5 Mar 2018 8:35 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration



TIC: DM112.D\data.ms

(60) 4-Nitrophenol (TMP)			Manual Integration:
7.824min (+ 0.003)	97.63 ppm		Before
response	154501		
Ion	Exp%	Act%	03/05/18
65.05	100.00	100.00	
138.95	148.60	143.59	
108.95	72.40	73.87	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM112.D  
 Acq On : 5 Mar 2018 8:35 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	111	-0.02
2	TM Pyridine	1.300	1.374		-5.7	113	-0.06
3	TM N-Nitrosodimethylamine	0.635	0.677		-6.6	111	-0.06
4	S SURR1,2-FLUOROPHENOL	1.295	1.417		-9.4	118	-0.02
5	TM N-Nitrosodiethylamine	0.717	0.654		8.8	98	-0.03
6	TM Benzaldehyde	0.849	0.911		-7.3	117	-0.02
7	TM Aniline	2.327	2.446		-5.1	114	-0.02
8	S SURR2,PHENOL-D6	1.606	1.741		-8.4	117	0.00
9	TMC Phenol	1.584	1.872		-18.2	132	0.00
10	TM bis(2-Clethyl)Ether	1.182	1.249		-5.7	117	-0.02
11	TM 2-Chlorophenol	1.320	1.471		-11.4	123	-0.02
12	TM 1,3-Diclbzence	1.415	1.539		-8.8	120	-0.02
13	TMC 1,4-Dichlorobenzene	1.446	1.578		-9.1	120	-0.02
14	TM 1,2-Diclbzence	1.366	1.506		-10.2	121	-0.02
15	TM Benzyl Alcohol	0.944	1.023		-8.4	116	-0.02
16	T 1-Methyl-2-pyrrolidinone	0.844	0.946		-12.1	118	0.00
17	TM 2,2'-oxybis(1-Chloropropane	1.070	0.945		11.7	98	-0.02
18	TM 2-Methylphenol	1.186	1.310		-10.5	121	0.00
19	TM 3+4-Methylphenol	1.287	1.573		-22.2#	135	0.00
20	TM Acetophenone	1.726	1.828		-5.9	118	-0.02
21	TMP N-Nitroso-Di-n-propylamine	0.854	0.876		-2.6	111	-0.02
22	TM Hexachloroethane	0.533	0.580		-8.8	120	-0.03
23	TM Alpha-terpinol	0.457	0.494		-8.1	119	-0.02
24	IR d8-Naphthalene	1.000	1.000		0.0	109	-0.02
25	S SURR4,NITROBENZENE-D5	0.294	0.348		-18.4	124	-0.02
26	TM Nitrobenzene	0.303	0.346		-14.2	120	-0.02
27	TM Isophorone	0.581	0.626		-7.7	115	-0.02
28	TCM 2-Nitrophenol	0.150	0.203		-35.3#	140	-0.02
29	TM 2,4-Dimethylphenol	0.319	0.362		-13.5	120	-0.01
30	TM bis(-2-Chloroethoxy)Methane	0.357	0.389		-9.0	118	-0.02
31	TM Benzoic Acid	0.119	0.190	-32.3	<del>-59.7#</del>	159	0.00 NT
32	TCM 2,4-Dichlorophenol	0.248	0.289		-16.5	123	-0.01
33	TM 1,2,4-Trichlorobenzene	0.272	0.306		-12.5	123	-0.02
34	TM Naphthalene	0.994	1.089		-9.6	121	-0.02
35	TM 4-Chloroaniline	0.464	0.434		6.5	102	-0.02
36	TM 2,6-Dichlorophenol	0.271	0.309		-14.0	123	-0.02
37	TCM Hexachlorobutadiene	0.133	0.152		-14.3	124	-0.03
38	TMC 4-Chloro-3-methylphenol	0.251	0.298		-18.7	127	-0.01
39	TM Caprolactam	0.104	0.119		-14.4	121	0.00
40	TM 2-Methylnaphthalene	0.640	0.713		-11.4	122	-0.02
41	TM 1-Methylnaphthalene	0.598	0.664		-11.0	123	-0.02
42	IR d10-Acenaphthene	1.000	1.000		0.0	112	-0.02
43	TPM Hexachlorocyclopentadiene	0.286	0.265		7.3	98	-0.02
44	TM 1,2,4,5-Tetrachlorobenzene	0.532	0.574		-7.9	123	-0.02
45	TM 1,2,3,4-Tetrachlorobenzene	0.517	0.556		-7.5	123	-0.02
46	TCM 2,4,6-Trichlorophenol	0.330	0.376		-13.9	124	-0.01
47	TM 2,4,5-Trichlorophenol	0.347	0.393		-13.3	125	0.00
48	S SURR5,2-FLUOROBIPHENYL	1.414	1.508		-6.6	122	-0.02
49	TM 1,1'-Biphenyl	1.608	1.725		-7.3	123	-0.02
50	TM 2-Chloronaphthalene	1.181	1.265		-7.1	123	-0.02

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM112.D  
 Acq On : 5 Mar 2018 8:35 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
51 TM 2-Nitroaniline	0.248	0.298		-20.2#	124	-0.01
52 TM Acenaphthylene	1.943	2.089		-7.5	122	-0.02
53 TM Dimethyl phthalate	1.314	1.368		-4.1	123	-0.02
54 TM 2,6-Dinitrotoluene	0.265	0.325		-22.6#	132	-0.01
55 TMC Acenaphthene	1.329	1.428		-7.4	122	-0.02
56 TM 3-Nitroaniline	0.315	0.381		-21.0#	134	-0.01
57 TPM 2,4-Dinitrophenol	0.064	0.120	-39.8	<del>-87.5#</del>	187	-0.01
58 TM Dibenzofuran	1.641	1.748		-6.5	123	-0.02
59 TM 2,4-Dinitrotoluene	0.327	0.427	-18.9	<del>-30.6#</del>	138	0.00
60 TMP 4-Nitrophenol	0.188	0.178		5.3	105	0.00
61 TM Pentachlorobenzene	0.473	0.510		-7.8	122	-0.02
62 TM 2,3,4,6-Tetrachlorophenol	0.229	0.264		-15.3	127	-0.01
63 TM Fluorene	1.356	1.389		-2.4	117	-0.02
64 TM 4-Chlorophenyl-phenylether	0.546	0.570		-4.4	119	-0.02
65 TM Diethylphthalate	1.322	1.390		-5.1	122	-0.02
66 TM 4-Nitroaniline	0.362	0.424		-17.1	127	0.00
67 S SURR3,2,4,6-TRIBROMOPHENOL	0.191	0.224		-17.3	131	-0.01
68 TM Octachlorocyclopentene	0.190	0.206		-8.4	119	-0.02
69 IR dl10-Phenanthrene	1.000	1.000		0.0	110	-0.02
70 TM 4,6-Dinitro-2-methylphenol	0.084	0.142	-38.6	<del>-69.0#</del>	168	0.00
71 TM 1,2 Diphenylhydrazine	0.721	0.705		2.2	115	-0.02
72 TCM N-Nitrosodiphenylamine	0.598	0.639		-6.9	124	-0.02
73 TM 4-Bromophenyl-phenylether	0.188	0.198		-5.3	124	-0.02
74 TM Hexachlorobenzene	0.235	0.250		-6.4	125	-0.01
75 TM Atrazine	0.110	0.105		4.5	102	-0.02
76 TCM Pentachlorophenol	0.072	0.115	-29.3	<del>-59.7#</del>	162	-0.01
77 TM Phenanthrene	1.050	1.154		-9.9	123	-0.02
78 TM Anthracene	1.047	1.182		-12.9	123	-0.02
79 TM Carbazole	1.083	1.228		-13.4	123	-0.01
80 TM Di-n-butylphthalate	1.302	1.512		-16.1	123	-0.02
81 TCM Fluoranthene	1.073	1.237		-15.3	123	-0.02
82 IR dl12-Chrysene	1.000	1.000		0.0	114	-0.02
83 TM Benzidine	0.788	0.825		-4.7	115	-0.02
84 TM Pyrene	1.183	1.325		-12.0	125	-0.02
85 S SURR6,TERPHENYL-D14	0.859	0.954		-11.1	124	-0.02
86 TM Butyl benzyl phthalate	0.639	0.676		-5.8	118	-0.04
87 TM 3,3'-Dichlorobenzidine	0.523	0.480		8.2	100	-0.03
88 TM Benzo(a)anthracene	1.120	1.216		-8.6	124	-0.02
89 TM Chrysene	1.048	1.148		-9.5	126	-0.02
90 TM bis(2-Ethylhexyl)phthalate	0.860	0.941		-9.4	119	-0.04
91 IR dl12-Perylene	1.000	1.000		0.0	116	-0.03
92 TCM Di-n-octyl phthalate	1.443	1.600		-10.9	122	-0.05
93 TM Benzo(b)fluoranthene	1.136	1.281		-12.8	128	-0.02
94 TM Benzo(k)fluoranthene	1.074	1.201		-11.8	126	-0.01
95 TCM Benzo(a)pyrene	0.977	1.122		-14.8	129	-0.02
96 TM Indeno(1,2,3-cd)Pyrene	0.916	1.084		-18.3	133	0.00
97 TM Dibenz(a,h)anthracene	1.001	1.169		-16.8	131	-0.01
98 TM Benzo(g,h,i)perylene	0.916	1.034		-12.9	131	0.00

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM112.D  
Acq On : 5 Mar 2018 8:35 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
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(#) = Out of Range                      SPCC's out = 0    CCC's out = 2

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM112.D  
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 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.780	152	180591	40.00	ppm	-0.02
24) d8-Naphthalene	5.950	136	683743	40.00	ppm	-0.02
42) d10-Acenaphthene	7.654	164	337128	40.00	ppm	-0.02
69) d10-Phenanthrene	9.128	188	556862	40.00	ppm	-0.02
82) d12-Chrysene	12.412	240	544987	40.00	ppm	-0.02
91) d12-Perylene	15.355	264	559664	40.00	ppm	-0.03

System Monitoring Compounds						
4) SURR1,2-FLUOROPHENOL	3.712	112	511892	87.52	ppm	-0.02
Spiked Amount	200.000	Range	10 - 105	Recovery	=	43.76%
8) SURR2,PHENOL-D6	4.465	99	628679	86.70	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	43.35%
25) SURR4,NITROBENZENE-D5	5.277	82	475943	94.64	ppm	-0.02
Spiked Amount	100.000	Range	37 - 117	Recovery	=	94.64%
48) SURR5,2-FLUOROBIPHENYL	6.991	172	1016511	85.32	ppm	-0.02
Spiked Amount	100.000	Range	39 - 119	Recovery	=	85.32%
67) SURR3,2,4,6-TRIBROMOPH...	8.444	330	150780	93.79	ppm	-0.01
Spiked Amount	200.000	Range	28 - 157	Recovery	=	46.90%
85) SURR6,TERPHENYL-D14	10.821	244	1040235	88.88	ppm	-0.02
Spiked Amount	100.000	Range	40 - 133	Recovery	=	88.88%

Target Compounds						Qvalue
2) Pyridine	2.702	79	496426	84.582	ppm	91
3) N-Nitrosodimethylamine	2.670	74	244633	85.360	ppm	96
5) N-Nitrosodiethylamine	3.883	102	236244	72.962	ppm	92
6) Benzaldehyde	4.412	106	329172	85.856	ppm	98
7) Aniline	4.497	93	883315	84.065	ppm	95
9) Phenol	4.476	94	676284	94.579	ppm	99
10) bis(2-Clethyl)Ether	4.540	93	451181	84.563	ppm	94
11) 2-Chlorophenol	4.604	128	531136	89.108	ppm	98
12) 1,3-Diclbzene	4.732	146	556024	87.048	ppm	99
13) 1,4-Dichlorobenzene	4.796	146	569995	87.320	ppm	98
14) 1,2-Diclbzene	4.930	146	543896	88.184	ppm	98
15) Benzyl Alcohol	4.898	79	369373	86.673	ppm	96
16) 1-Methyl-2-pyrrolidinone	4.951	99	341594	89.652	ppm	91
17) 2,2'-oxybis(1-Chloropr...	5.004	45	341359	70.656	ppm	83
18) 2-Methylphenol	5.015	108	473275	88.385	ppm	94
19) 3+4-Methylphenol	5.149	108	568262	97.816	ppm	98
20) Acetophenone	5.133	105	660246	84.736	ppm	88
21) N-Nitroso-Di-n-propyla...	5.133	70	316574	82.065	ppm	87
22) Hexachloroethane	5.229	117	209506	87.103	ppm	90
23) Alpha-terpinol	5.971	121	178568	86.601	ppm	92
26) Nitrobenzene	5.298	77	472780	91.403	ppm	82
27) Isophorone	5.512	82	855993	86.243	ppm	98
28) 2-Nitrophenol	5.587	139	277789	108.251	ppm	96
29) 2,4-Dimethylphenol	5.629	107	495433	90.990	ppm	99
30) bis(-2-Chloroethoxy)Me...	5.704	93	531791	87.045	ppm	99
31) Benzoic Acid	5.736	105	259802m	105.808	ppm	
32) 2,4-Dichlorophenol	5.827	162	394597	92.944	ppm	98
33) 1,2,4-Trichlorobenzene	5.891	180	417981	89.737	ppm	98
34) Naphthalene	5.966	128	1489325	87.641	ppm	99
35) 4-Chloroaniline	6.025	127	593634	74.786	ppm	98
36) 2,6-Dichlorophenol	6.030	162	421918	91.051	ppm	97
37) Hexachlorobutadiene	6.073	225	207849	91.243	ppm	99
38) 4-Chloro-3-methylphenol	6.500	107	406893	94.757	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM112.D  
 Acq On : 5 Mar 2018 8:35 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 08:59:40 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Thu Mar 01 11:34:21 2018  
 Response via : Initial Calibration

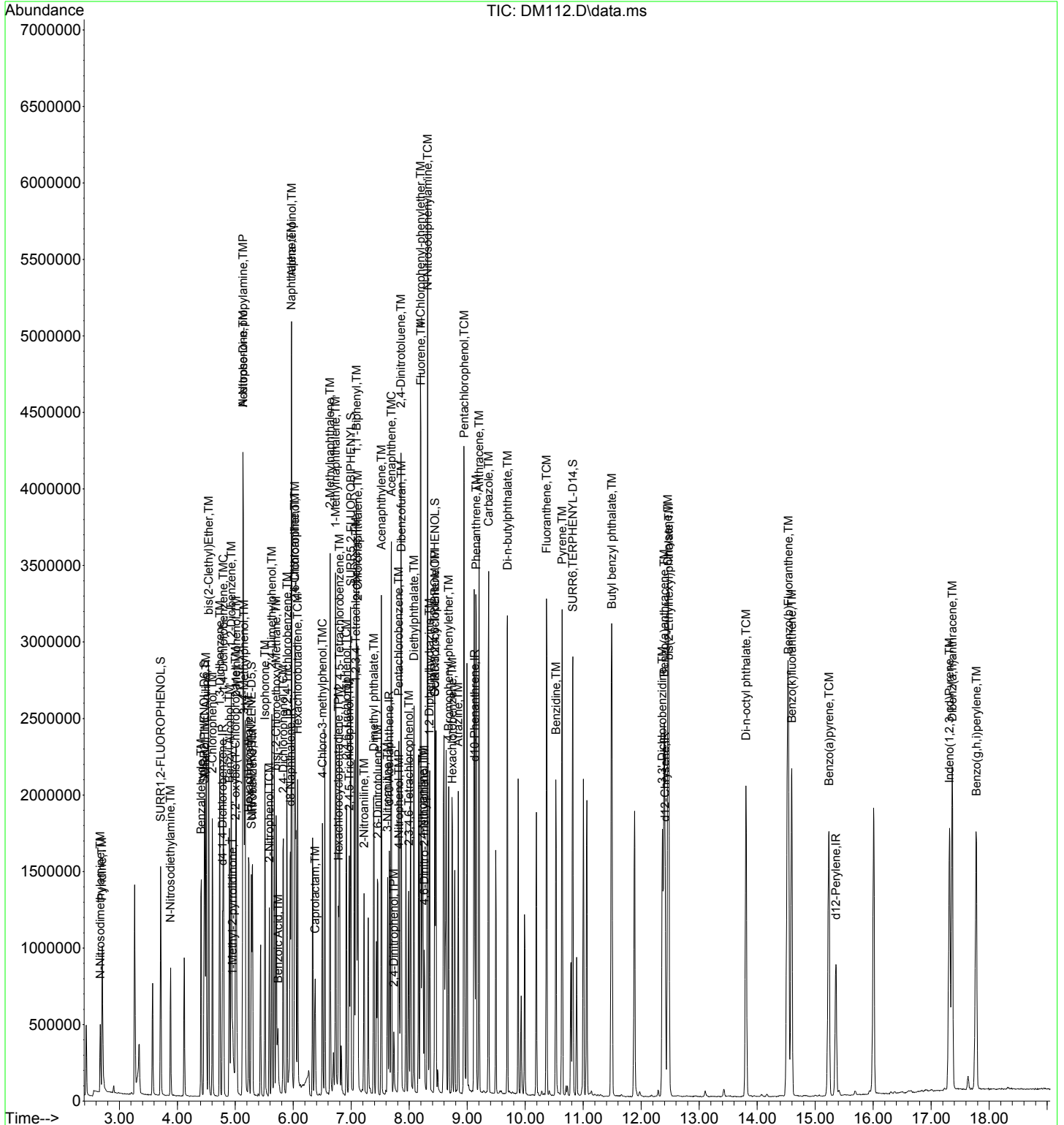
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Caprolactam	6.377	113	162322	91.713	ppm	90
40) 2-Methylnaphthalene	6.633	142	974680	89.084	ppm	99
41) 1-Methylnaphthalene	6.730	142	908353	88.894	ppm	99
43) Hexachlorocyclopentadiene	6.778	237	178588	74.083	ppm	99
44) 1,2,4,5-Tetrachloroben...	6.794	216	386750	86.189	ppm	95
45) 1,2,3,4-Tetrachloroben...	7.077	216	374701	86.007	ppm	99
46) 2,4,6-Trichlorophenol	6.917	196	253756	91.352	ppm	100
47) 2,4,5-Trichlorophenol	6.965	196	264742	90.651	ppm	98
49) 1,1'-Biphenyl	7.087	154	1163360	85.816	ppm	99
50) 2-Chloronaphthalene	7.114	162	852819	85.661	ppm	99
51) 2-Nitroaniline	7.221	65	201183	96.357	ppm	95
52) Acenaphthylene	7.520	152	1408349	86.018	ppm	100
53) Dimethyl phthalate	7.387	163	922145	83.264	ppm	99
54) 2,6-Dinitrotoluene	7.456	165	218992	97.897	ppm	96
55) Acenaphthene	7.691	153	962609	85.967	ppm	99
56) 3-Nitroaniline	7.627	138	256880	96.879	ppm	93
57) 2,4-Dinitrophenol	7.734	184	81197	111.820	ppm	90
58) Dibenzofuran	7.862	168	1178690	85.199	ppm	96
59) 2,4-Dinitrotoluene	7.857	165	287774	95.149	ppm	93
60) 4-Nitrophenol	7.824	65	119736m	75.664	ppm	
61) Pentachlorobenzene	7.819	250	344002	86.281	ppm	97
62) 2,3,4,6-Tetrachlorophenol	7.990	232	178136	92.397	ppm	98
63) Fluorene	8.198	166	936610	81.964	ppm	100
64) 4-Chlorophenyl-phenyle...	8.193	204	384003	83.481	ppm	94
65) Diethylphthalate	8.081	149	937144	84.123	ppm	99
66) 4-Nitroaniline	8.236	138	285713	93.716	ppm	96
68) Octachlorocyclopentene	8.444	307	138699	86.838	ppm	97
70) 4,6-Dinitro-2-methylph...	8.257	198	158525	110.866	ppm	87
71) 1,2 Diphenylhydrazine	8.348	77	785475	78.235	ppm	96
72) N-Nitrosodiphenylamine	8.316	169	1423089	170.830	ppm	98
73) 4-Bromophenyl-phenylether	8.679	248	220978	84.250	ppm	96
74) Hexachlorobenzene	8.743	284	278562	85.304	ppm	93
75) Atrazine	8.845	215	116722	76.429	ppm	97
76) Pentachlorophenol	8.946	266	127883	103.445	ppm	98
77) Phenanthrene	9.154	178	1285768	87.978	ppm	99
78) Anthracene	9.203	178	1316927	90.320	ppm	98
79) Carbazole	9.368	167	1367309	90.730	ppm	99
80) Di-n-butylphthalate	9.694	149	1683983	92.888	ppm	99
81) Fluoranthene	10.367	202	1377531	92.210	ppm	97
83) Benzidine	10.527	184	899336	83.806	ppm	98
84) Pyrene	10.634	202	1444501	89.583	ppm	98
86) Butyl benzyl phthalate	11.494	149	736543	84.638	ppm	97
87) 3,3'-Dichlorobenzidine	12.364	252	522907	73.425	ppm	99
88) Benzo(a)anthracene	12.396	228	1325348	86.824	ppm	98
89) Chrysene	12.461	228	1251015	87.642	ppm	100
90) bis(2-Ethylhexyl)phtha...	12.477	149	1026053	87.539	ppm	99
92) Di-n-octyl phthalate	13.807	149	1791433	88.747	ppm	98
93) Benzo(b)Fluoranthene	14.538	252	1434180	90.246	ppm	98
94) Benzo(k)fluoranthene	14.597	252	1344382	89.482	ppm	99
95) Benzo(a)pyrene	15.238	252	1256136	91.913	ppm	99
96) Indeno(1,2,3-cd)Pyrene	17.316	276	1213362	94.721	ppm	99
97) Dibenz(a,h)anthracene	17.364	278	1308116	93.414	ppm	99
98) Benzo(g,h,i)perylene	17.780	276	1157890	90.370	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM112.D  
Acq On : 5 Mar 2018 8:35 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270/625  
ALS Vial : 4 Sample Multiplier: 1

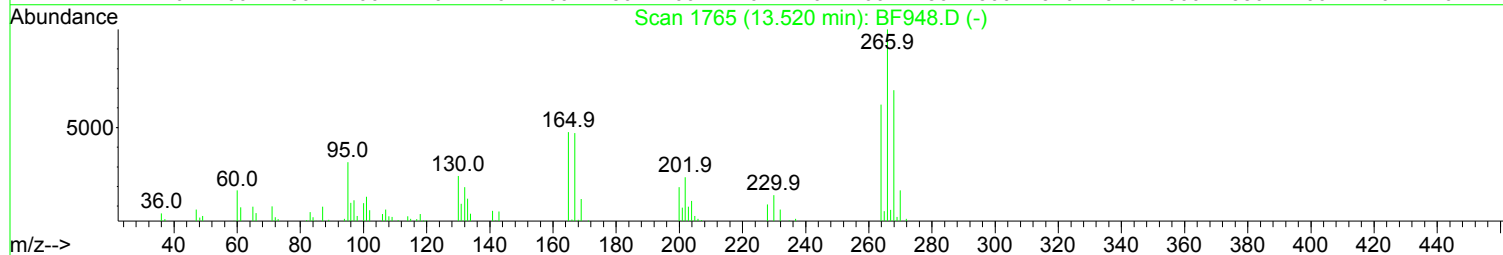
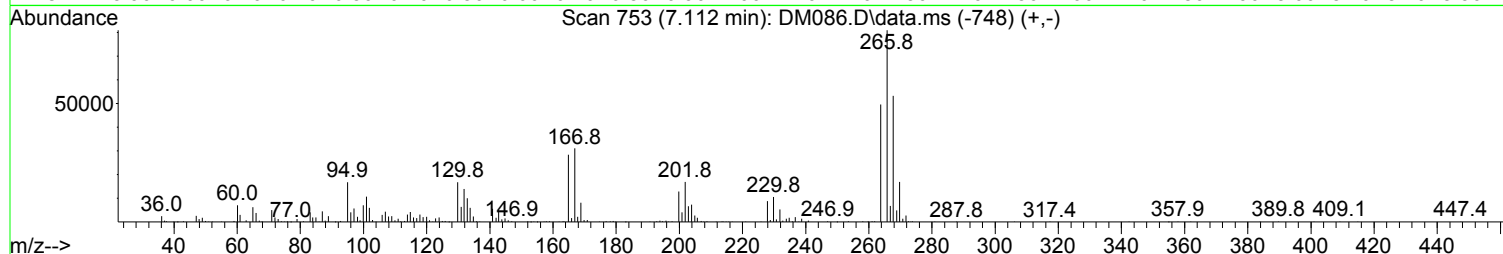
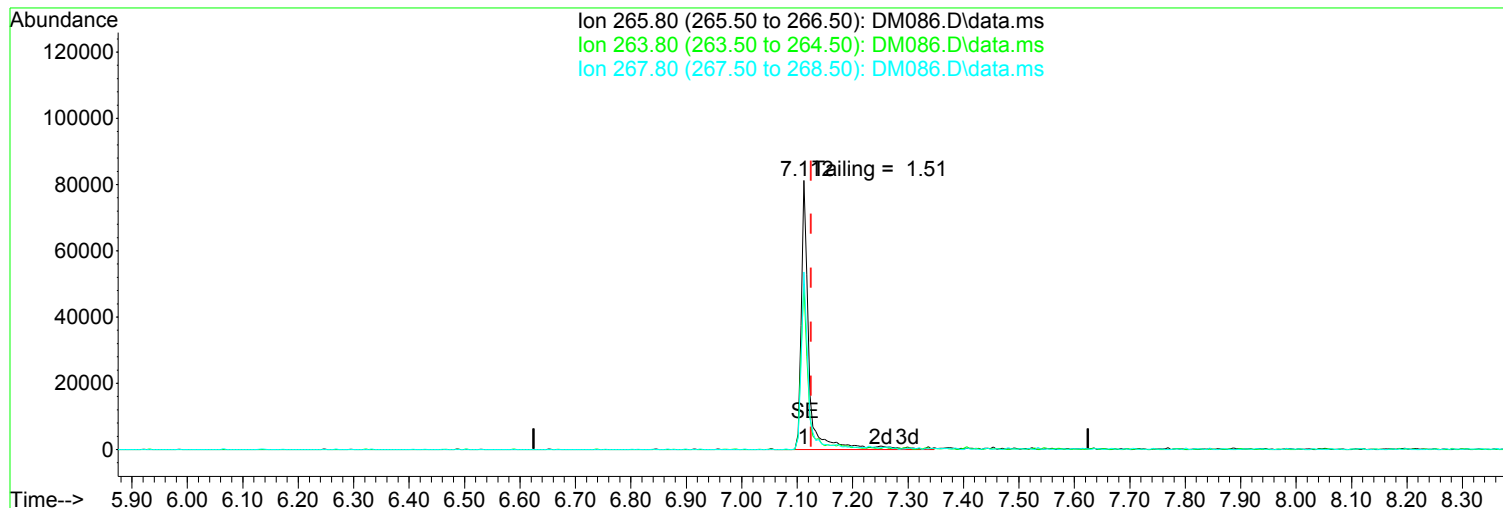
Quant Time: Mar 05 08:59:40 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318AS.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Thu Mar 01 11:34:21 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM086.D  
Acq On : 2 Mar 2018 10:08 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 10:43:05 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



(5) Pentachlorophenol (TCM)

Manual Integration:

7.112min (-0.013) 63.24 ppm

After

response 75857

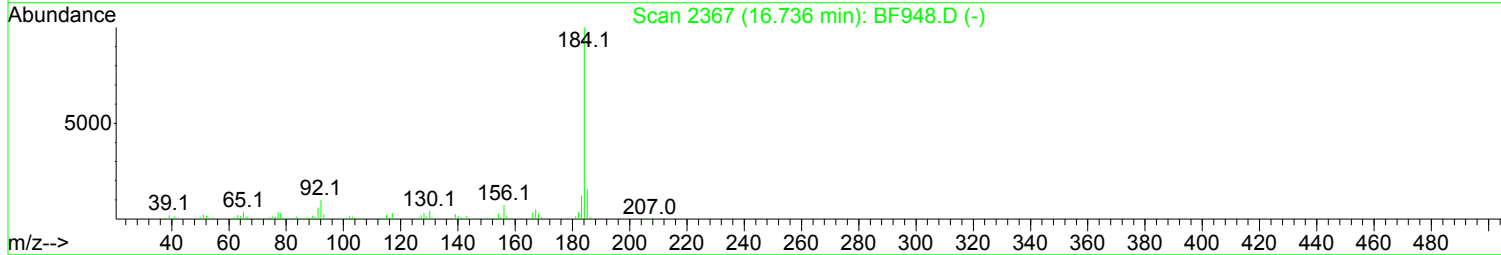
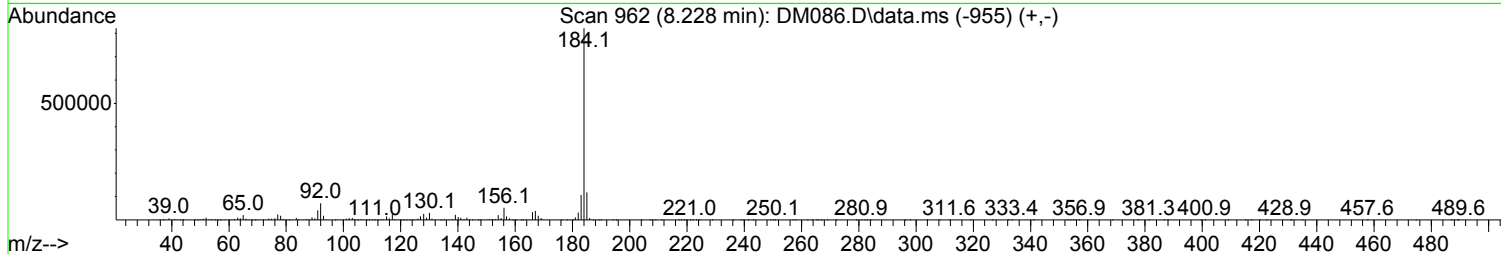
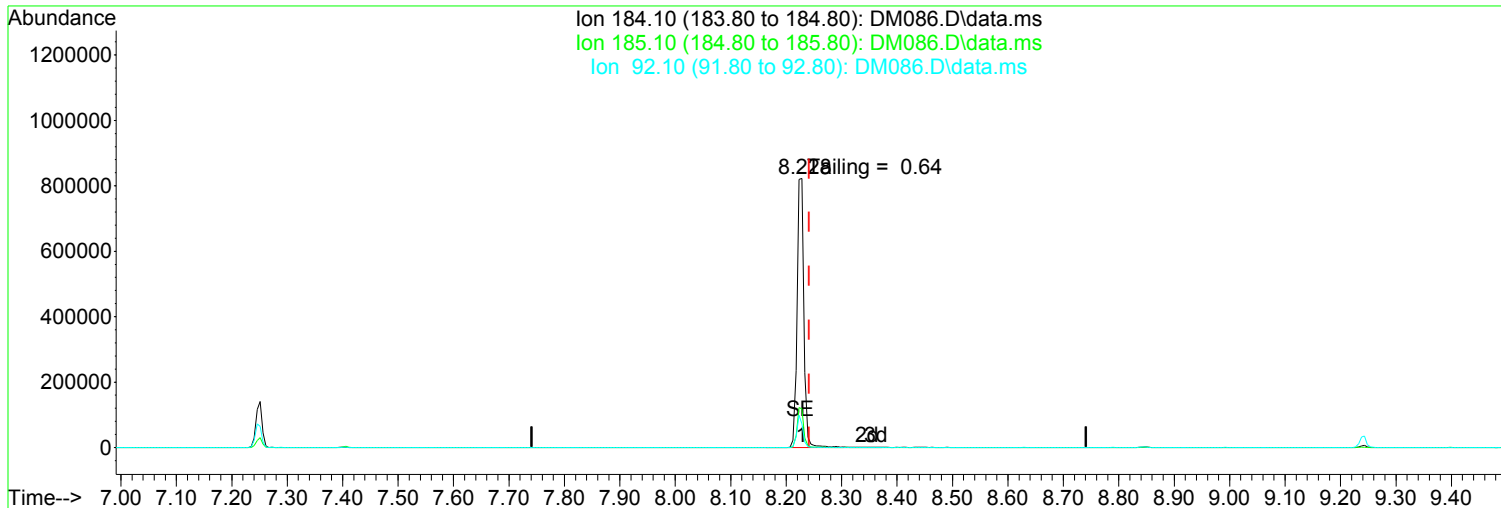
Other - Tailing

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	63.50	61.35
267.80	64.20	65.82
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM086.D  
Acq On : 2 Mar 2018 10:08 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 02 10:43:05 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DM086.D\data.ms

(8) Benzidine (T)

8.228min (-0.013) 51.90 ppm

response 708810

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.80	14.39
92.10	10.10	8.77
0.00	0.00	0.00

Manual Integration:  
After  
Other - Tailing  
03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM086.D  
 Acq On : 2 Mar 2018 10:08 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

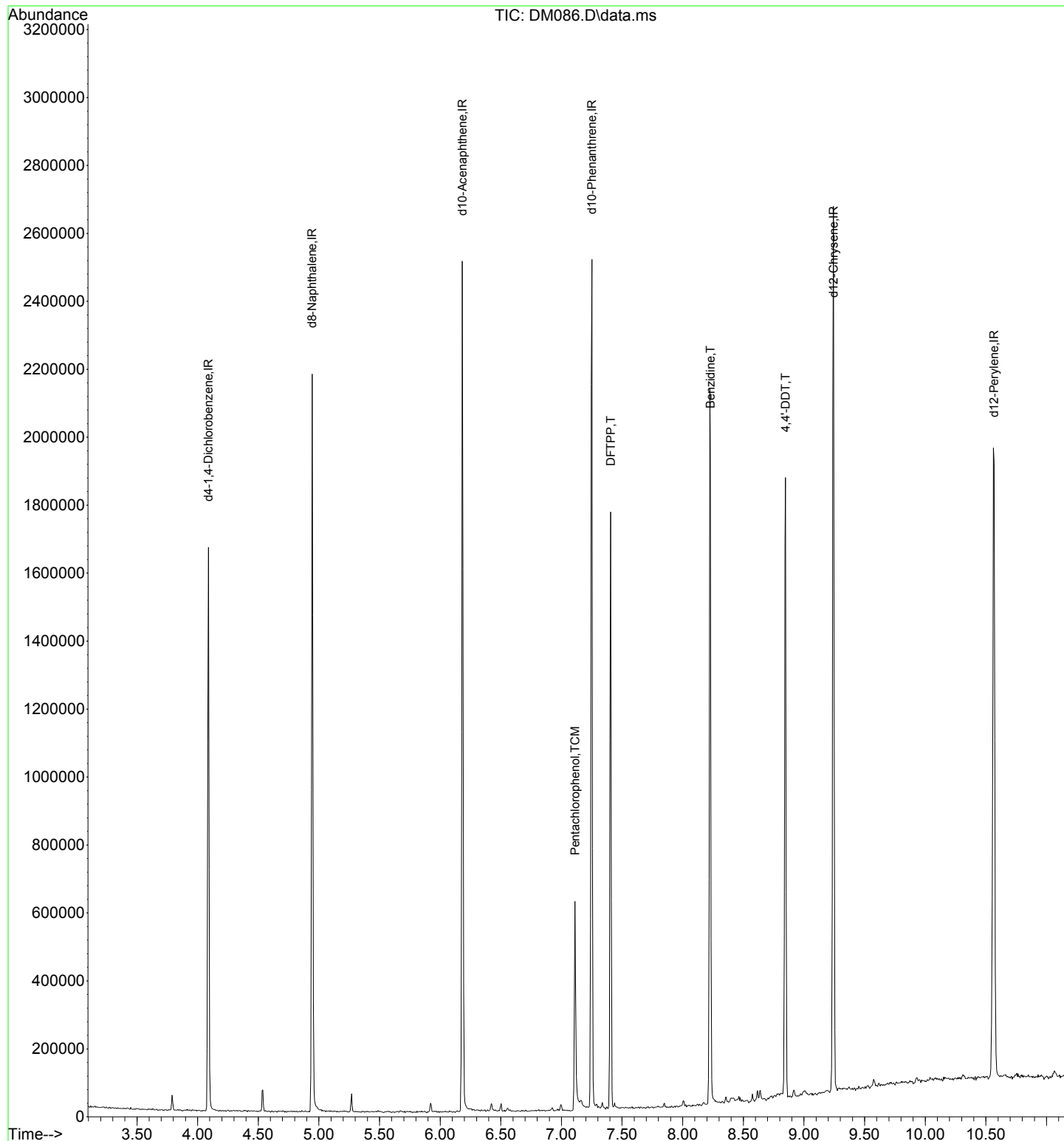
Quant Time: Mar 02 10:43:05 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 07:26:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.089	152	227978	40.00	ppm	-0.02	
2) d8-Naphthalene	4.944	136	853367	40.00	ppm	-0.02	
3) d10-Acenaphthene	6.183	164	417861	40.00	ppm	-0.02	
4) d10-Phenanthrene	7.251	188	765037	40.00	ppm	-0.01	
7) d12-Chrysene	9.243	240	698377	40.00	ppm	-0.01	
12) d12-Perylene	10.568	264	741489	40.00	ppm	-0.01	
Target Compounds							
5) Pentachlorophenol	7.112	266	75857	63.235	ppm		Qvalue 98
6) DFTPP	7.406	198	118174	51.449	ppm	#	66
8) Benzidine	8.228	184	708810	51.898	ppm		98
9) 4,4'-DDE	7.406	246	1661	N.D.			
10) 4,4'-DDD	8.640	235	4238	N.D.			
11) 4,4'-DDT	8.848	235	297296	52.449	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
Data File : DM086.D  
Acq On : 2 Mar 2018 10:08 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

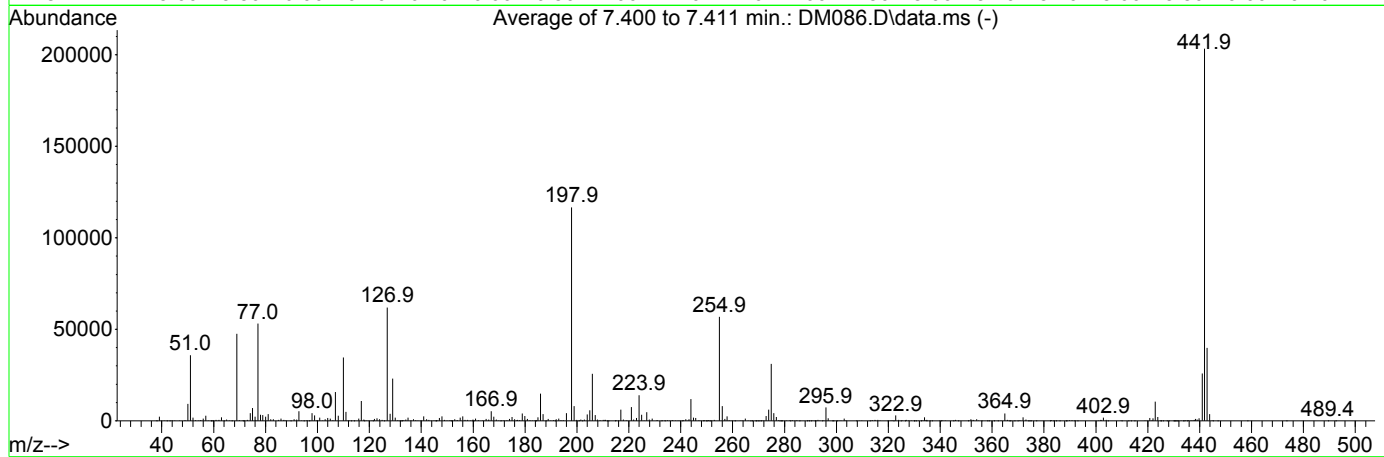
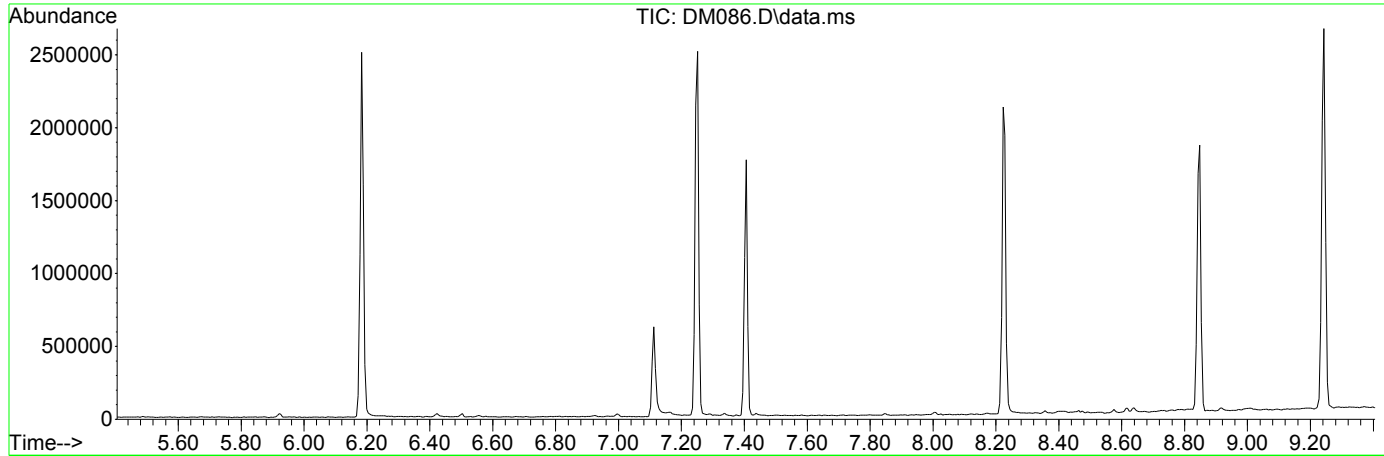
Quant Time: Mar 02 10:43:05 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM086.D  
 Acq On : 2 Mar 2018 10:08 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Wed Oct 03 16:33:08 2012



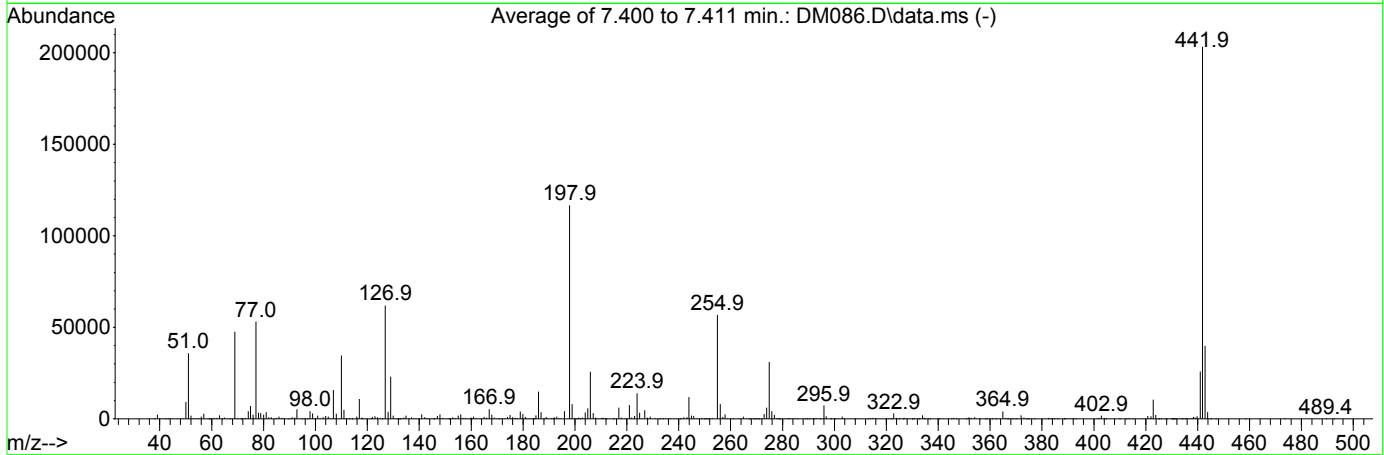
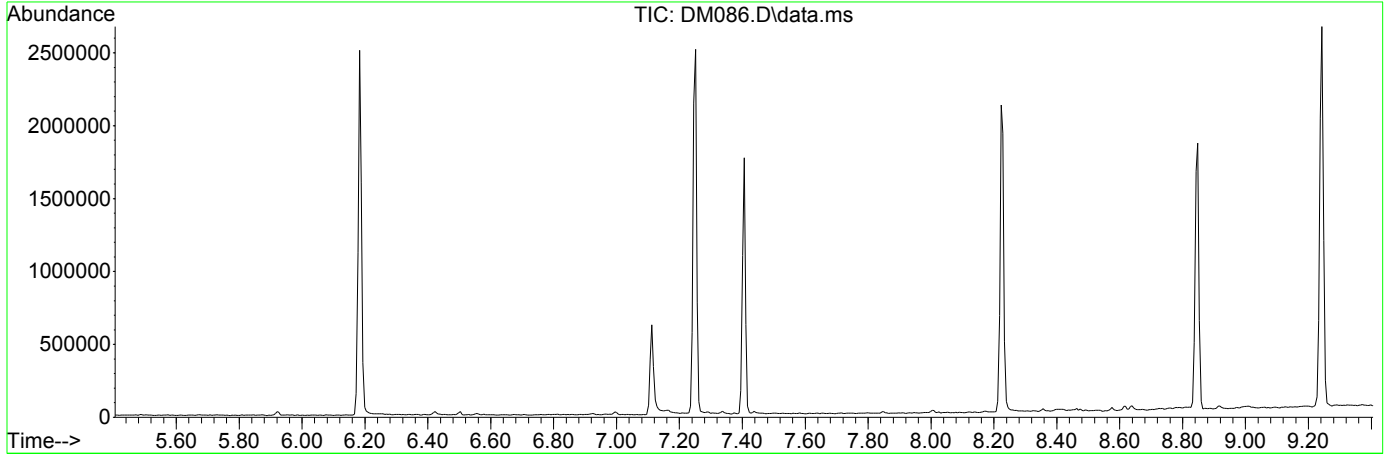
AutoFind: Scans 807, 808, 809; Background Corrected with Scan 802

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.7	35796	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.7	47480	PASS
70	69	0.00	2	0.9	413	PASS
127	198	40	60	53.1	61940	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	116683	PASS
199	198	5	9	7.0	8131	PASS
275	198	10	30	26.7	31189	PASS
365	198	1	500	3.5	4105	PASS
441	443	0.01	100	64.8	25835	PASS
442	198	50	500	174.3	203344	PASS
443	442	17	23	19.6	39840	PASS

Data Path : I:\ACQUDATA\5973A\DATA\030218\  
 Data File : DM086.D  
 Acq On : 2 Mar 2018 10:08 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 07:26:38 2018

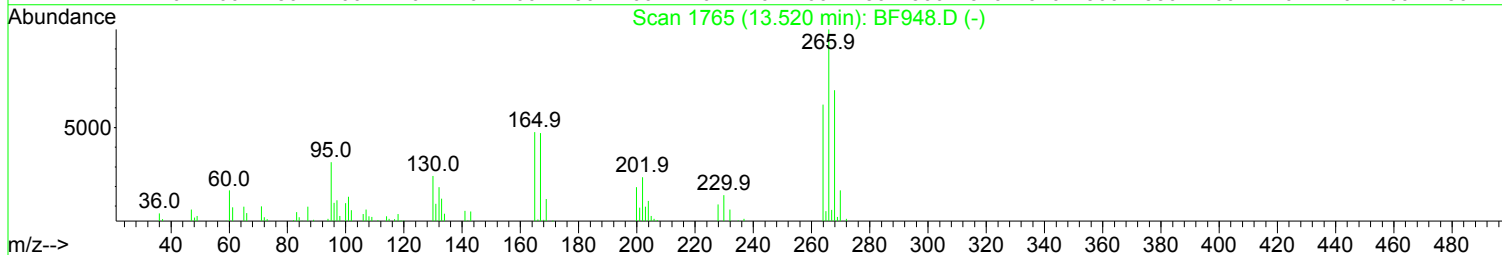
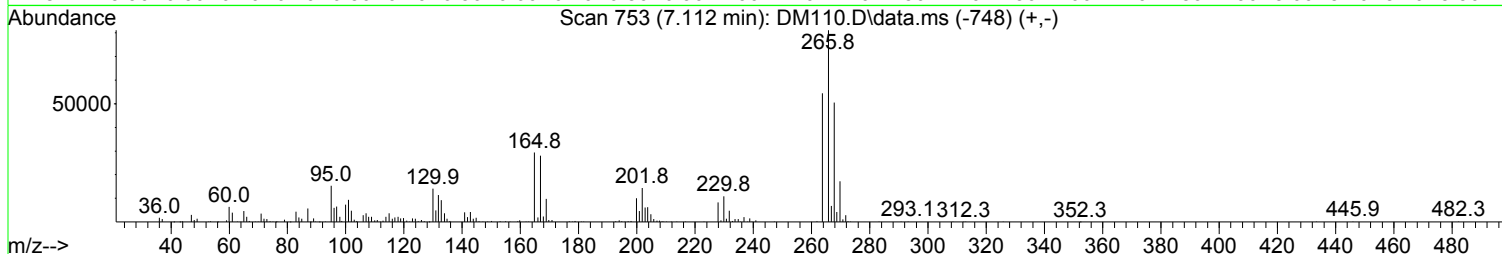
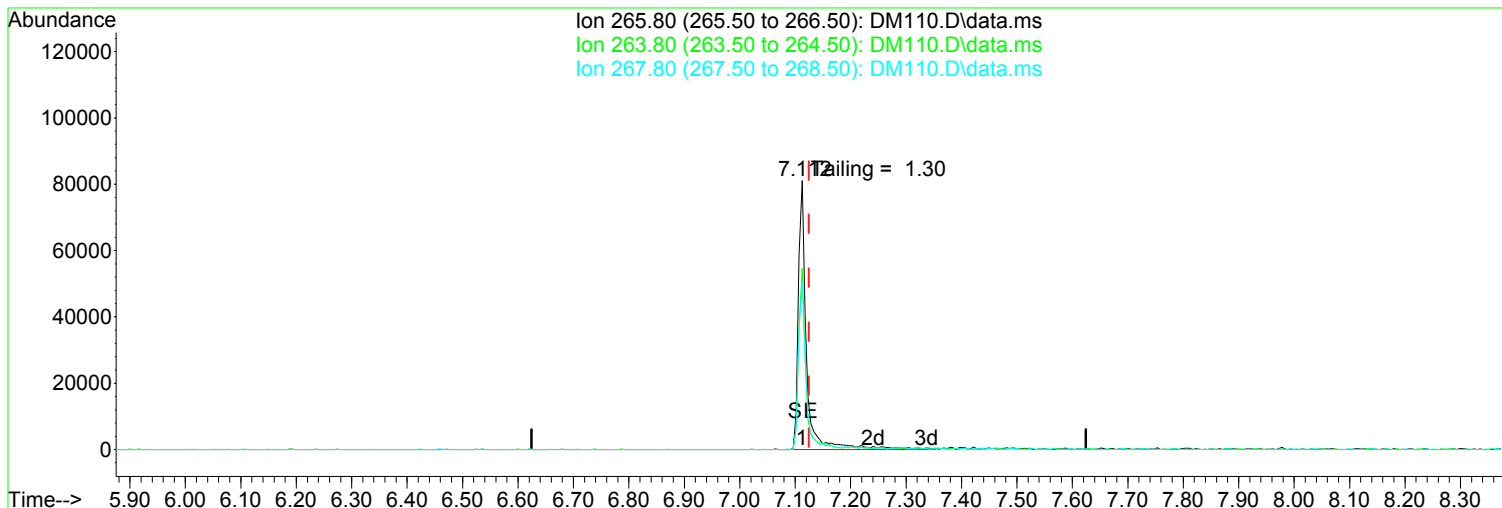


AutoFind: Scans 807, 808, 809; Background Corrected with Scan 802

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.7	35796	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.7	47480	PASS
70	69	0.00	2	0.9	413	PASS
127	198	10	80	53.1	61940	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	116683	PASS
199	198	5	9	7.0	8131	PASS
275	198	10	60	26.7	31189	PASS
365	198	1	500	3.5	4105	PASS
441	442	0.01	24	12.7	25835	PASS
442	442	100	100	100.0	203344	PASS
443	442	15	24	19.6	39840	PASS

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM110.D  
Acq On : 5 Mar 2018 7:34 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 07:53:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DM110.D\data.ms

(5) Pentachlorophenol (TCM)

Manual Integration:

7.112min (-0.013) 67.21 ppm

After

response 79847

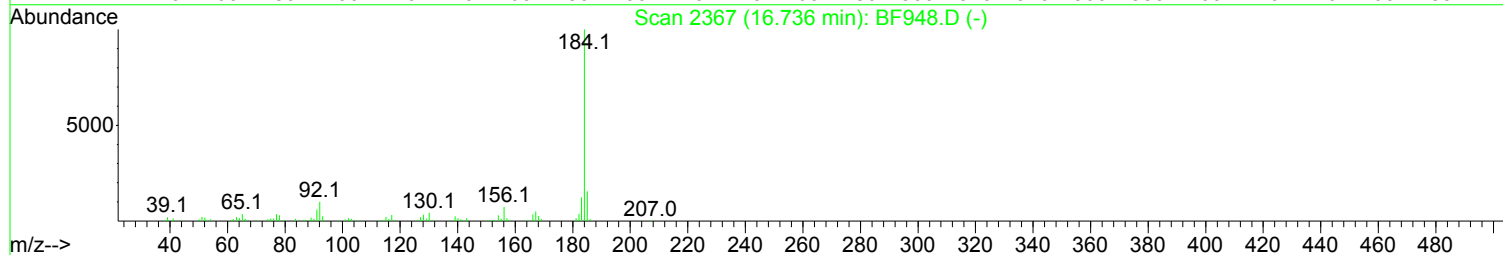
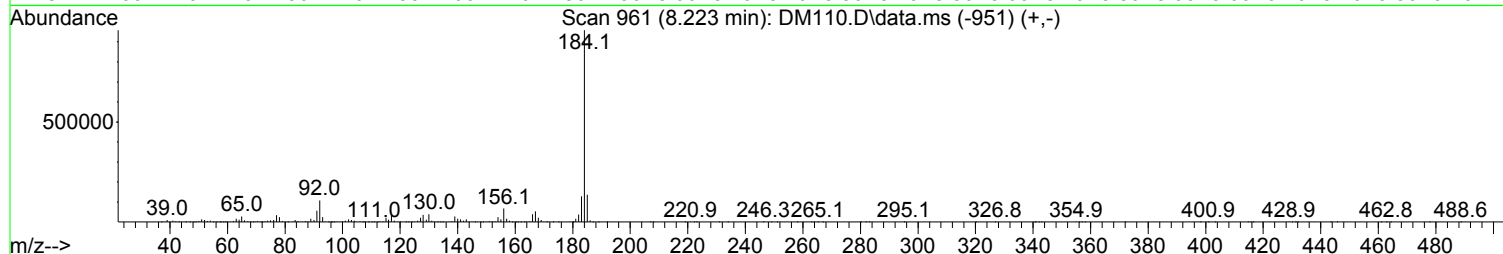
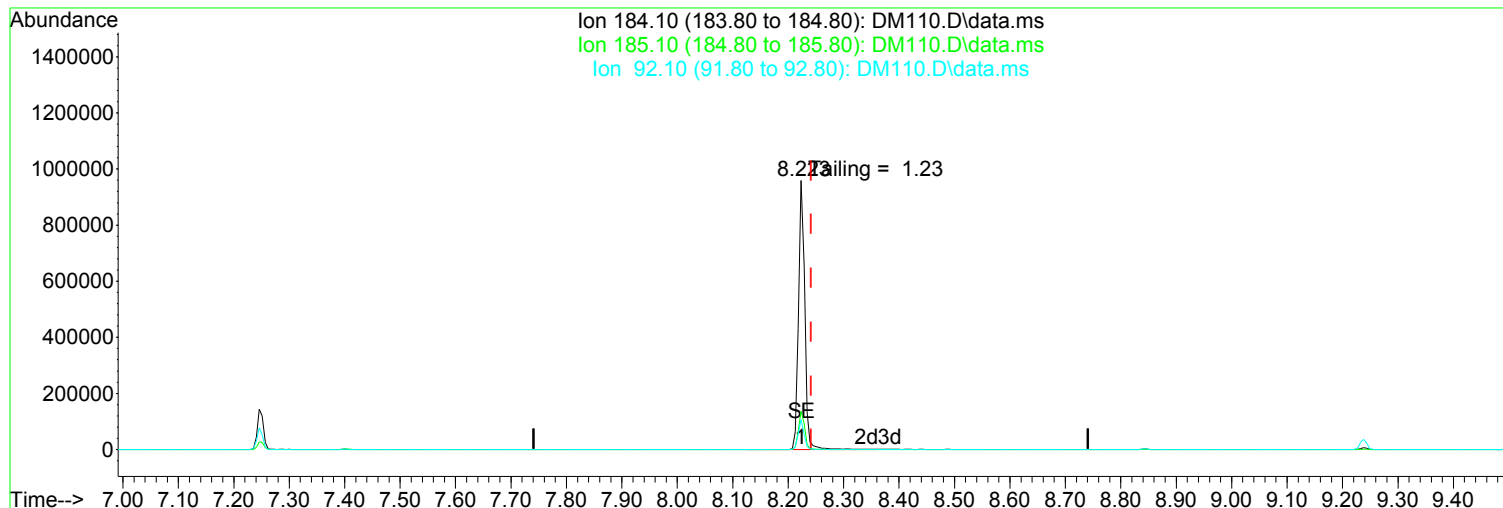
Other - Tailing

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	63.50	67.33
267.80	64.20	62.51
0.00	0.00	0.00

03/05/18

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM110.D  
Acq On : 5 Mar 2018 7:34 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 07:53:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



TIC: DM110.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.223min (-0.018) 51.27 ppm

After

response 742770

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.80	14.21
92.10	10.10	11.19
0.00	0.00	0.00

03/05/18



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM110.D  
 Acq On : 5 Mar 2018 7:34 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

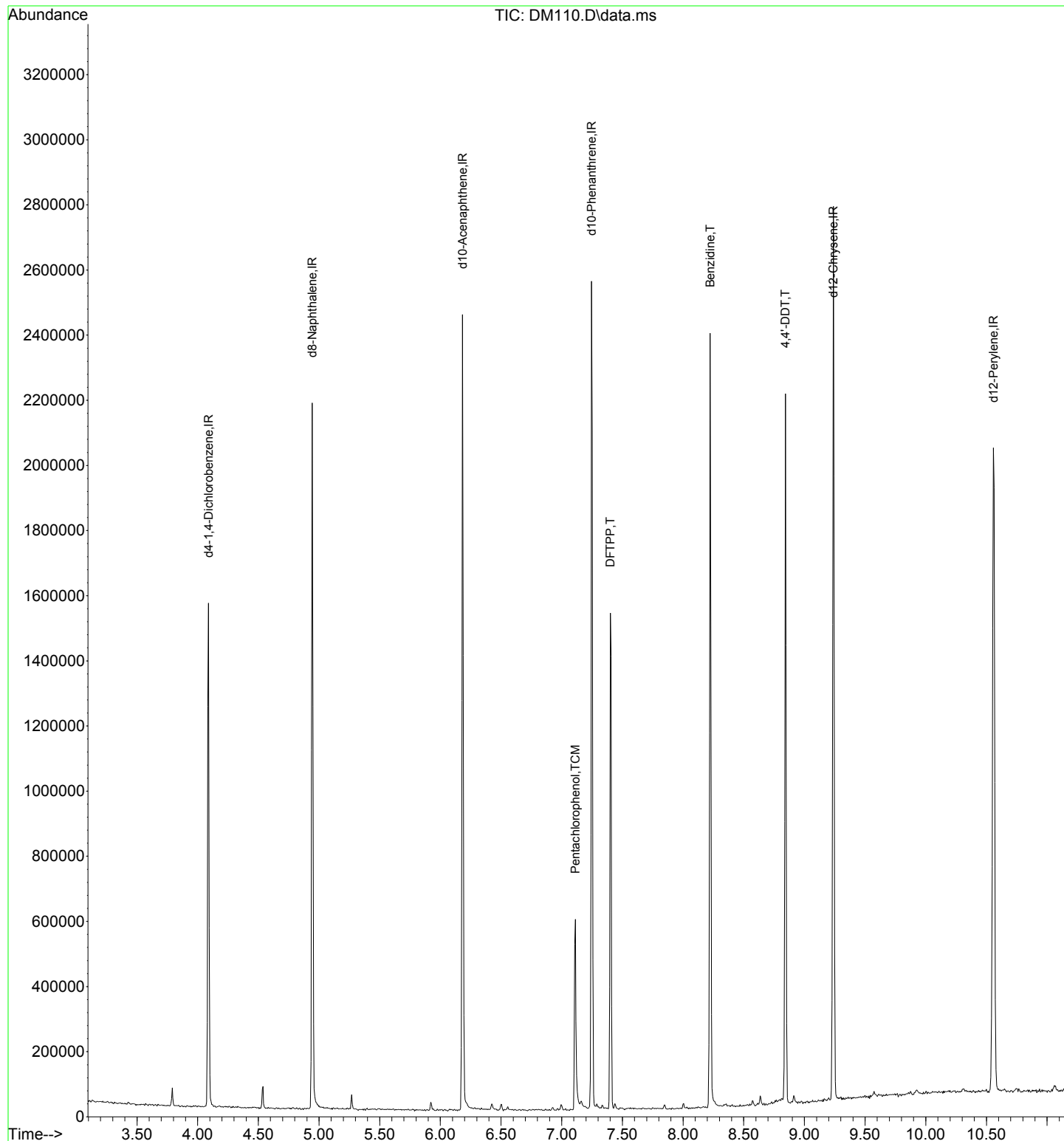
Quant Time: Mar 05 07:53:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 07:26:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.089	152	225984	40.00	ppm	-0.02	
2) d8-Naphthalene	4.944	136	840659	40.00	ppm	-0.02	
3) d10-Acenaphthene	6.183	164	417514	40.00	ppm	-0.02	
4) d10-Phenanthrene	7.246	188	757621	40.00	ppm	-0.02	
7) d12-Chrysene	9.238	240	740785	40.00	ppm	-0.02	
12) d12-Perylene	10.557	264	794020	40.00	ppm	-0.02	
Target Compounds							
5) Pentachlorophenol	7.112	266	79847	67.213	ppm		Qvalue 96
6) DFTPP	7.401	198	117107	51.484	ppm		89
8) Benzidine	8.223	184	742770	51.271	ppm		98
9) 4,4'-DDE	7.401	246	2066	N.D.			
10) 4,4'-DDD	8.640	235	4773	N.D.			
11) 4,4'-DDT	8.843	235	305364	50.788	ppm		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
Data File : DM110.D  
Acq On : 5 Mar 2018 7:34 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

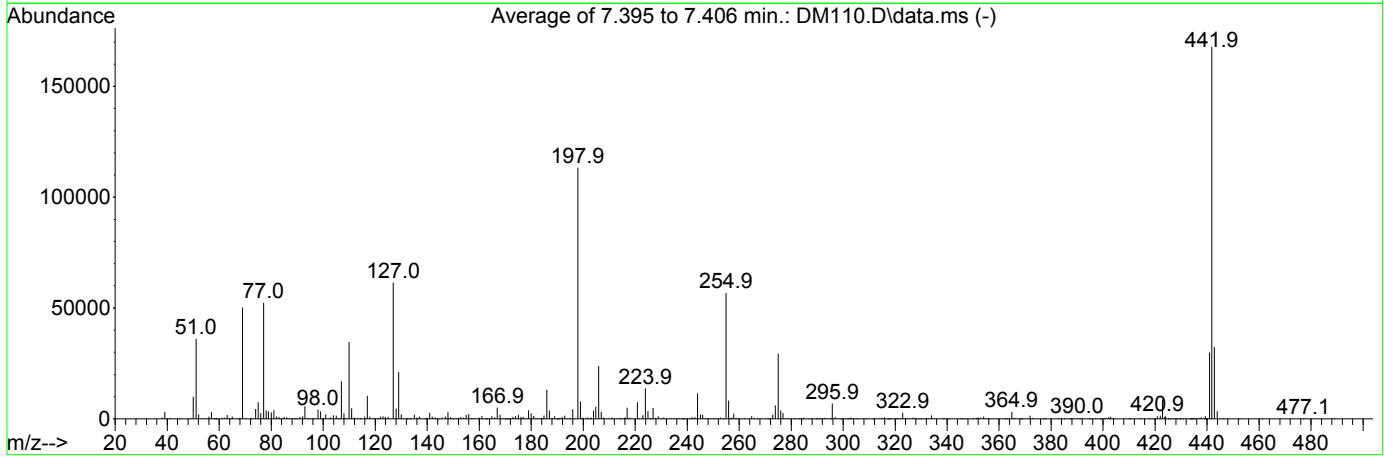
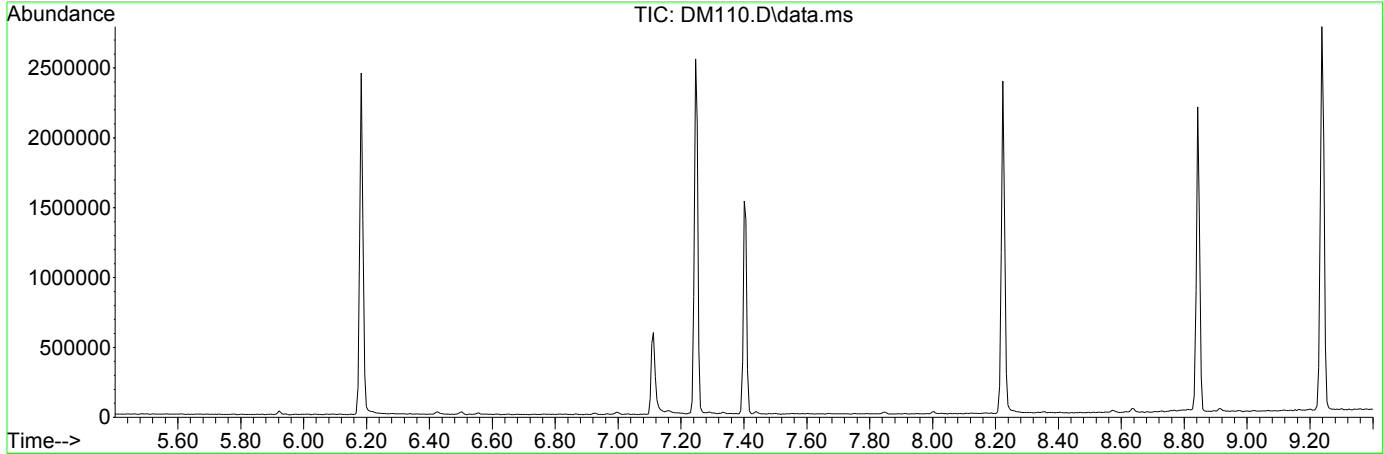
Quant Time: Mar 05 07:53:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM110.D  
 Acq On : 5 Mar 2018 7:34 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Wed Oct 03 16:33:08 2012



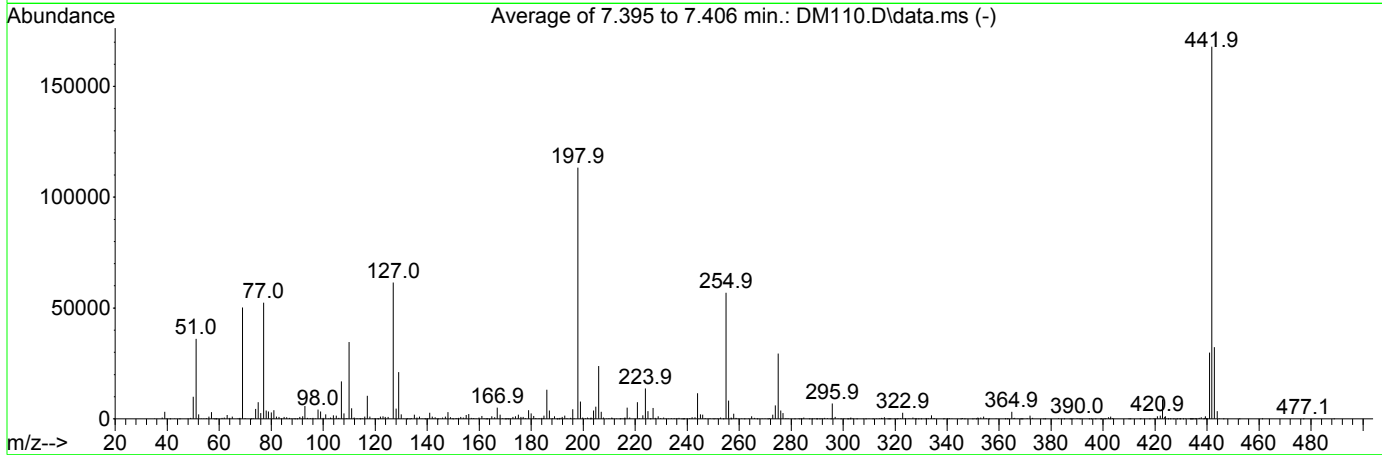
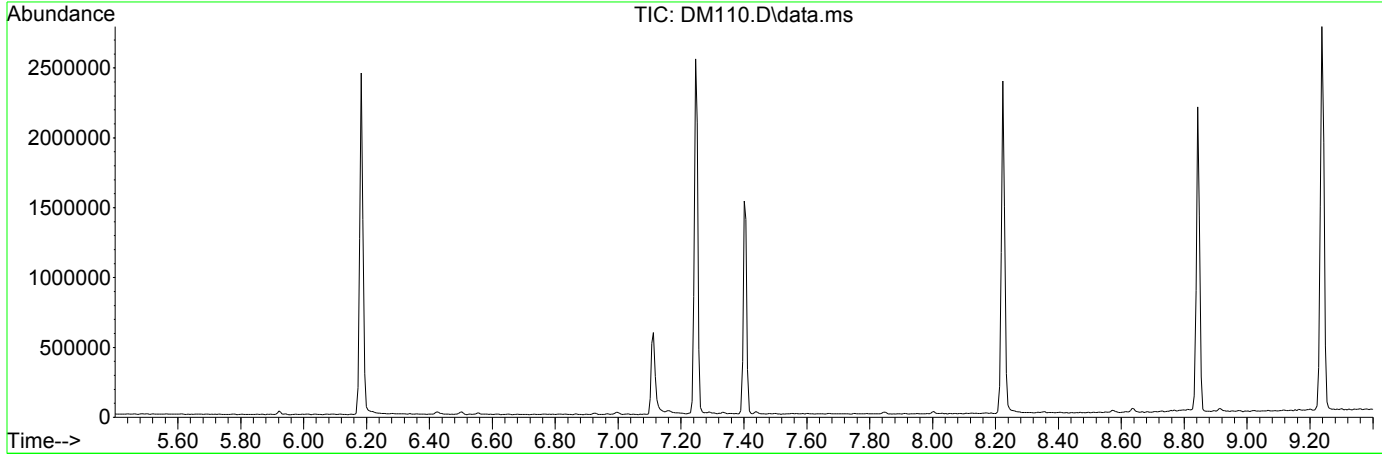
AutoFind: Scans 806, 807, 808; Background Corrected with Scan 800

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.9	36113	PASS
68	69	0.00	2	0.8	425	PASS
69	198	0.00	100	44.3	50220	PASS
70	69	0.00	2	0.7	340	PASS
127	198	40	60	54.2	61472	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	113360	PASS
199	198	5	9	6.9	7819	PASS
275	198	10	30	26.0	29420	PASS
365	198	1	500	2.8	3197	PASS
441	443	0.01	100	92.2	29867	PASS
442	198	50	500	148.1	167909	PASS
443	442	17	23	19.3	32400	PASS

Data Path : I:\ACQUDATA\5973A\DATA\030518\  
 Data File : DM110.D  
 Acq On : 5 Mar 2018 7:34 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 07:26:38 2018



AutoFind: Scans 806, 807, 808; Background Corrected with Scan 800

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.9	36113	PASS
68	69	0.00	2	0.8	425	PASS
69	198	0.00	100	44.3	50220	PASS
70	69	0.00	2	0.7	340	PASS
127	198	10	80	54.2	61472	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	113360	PASS
199	198	5	9	6.9	7819	PASS
275	198	10	60	26.0	29420	PASS
365	198	1	500	2.8	3197	PASS
441	442	0.01	24	17.8	29867	PASS
442	442	100	100	100.0	167909	PASS
443	442	15	24	19.3	32400	PASS

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL632.D  
 Acq On : 23 Jan 2018 4:10 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.803	152	171646	40.00	ppm	0.00	
33) d8-Naphthalene	5.967	136	645772	40.00	ppm	0.00	
57) d10-Acenaphthene	7.676	164	306677	40.00	ppm	0.00	
91) d10-Phenanthrene	9.145	188	520588	40.00	ppm	0.00	
117) d12-Chrysene	12.435	240	494740	40.00	ppm	0.00	
135) d12-Perylene	15.378	264	493790	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.735	112	430986	77.53	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	38.77%	
12) SURR2,PHENOL-D6	4.477	99	542406	78.70	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	39.35%	
34) SURR4,NITROBENZENE-D5	5.300	82	399513	84.11	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	84.11%	
63) SURR5,2-FLUOROBIPHENYL	7.009	172	840968	77.59	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	77.59%	
88) SURR3,2,4,6-TRIBROMOPH...	8.456	330	115884	79.24	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	39.62%	
124) SURR6,TERPHENYL-D14	10.844	244	832816	78.39	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	78.39%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.757	79	463344	83.060	ppm		98
3) N-Nitrosodimethylamine	2.720	74	239551	87.942	ppm		98
4) 2-Picoline	3.302	93	496445	83.889	ppm		99
5) N-Nitrosomethylamine	3.377	42	158673	77.242	ppm		96
6) Methyl Methansulfonate	3.601	80	189615	79.512	ppm		98
8) N-Nitrosodiethylamine	3.911	102	138354	44.956	ppm		98
9) Ethyl Mathanesulfonate	4.141	79	300866	78.704	ppm		99
10) Benzaldehyde	4.434	106	304992	83.695	ppm		97
11) Aniline	4.520	93	782166	78.318	ppm		87
13) Phenol	4.488	94	557108	81.972	ppm		92
14) bis(2-Clethyl)Ether	4.562	93	423626	83.536	ppm		98
15) Pentachloroethane	4.562	117	157140	77.991	ppm		98
16) 2-Chlorophenol	4.627	128	460455	81.276	ppm		97
17) 1,3-Diclbzene	4.755	146	483122	79.576	ppm		99
18) 1,4-Dichlorobenzene	4.819	146	475063	76.570	ppm		100
19) 1,2-Diclbzene	4.952	146	465591	79.422	ppm		98
20) Benzyl Alcohol	4.915	79	332608	82.114	ppm		99
21) 1-Methyl-2-pyrrolidinone	4.968	99	298773	82.500	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.027	45	442089	96.274	ppm		87
23) 2-Methylphenol	5.027	108	395426	77.695	ppm		90
24) 3+4-Methylphenol	5.155	108	435831	78.930	ppm		99
25) Acetophenone	5.155	105	576575	77.854	ppm		99
26) N-Nitroso-Di-n-propyla...	5.155	70	302173	82.414	ppm		95
27) N-Nitrosopyrrolidine	5.145	100	245130	82.221	ppm		89
28) N-Nitrosomorpholine	5.177	56	220756	81.304	ppm		98
29) o-Toluidine	5.187	106	726924	82.034	ppm		91
30) Hexachloroethane	5.257	117	179578	78.551	ppm		99
31) o,o,o-Triethylphosphor...	5.695	198	182507	80.546	ppm		94
32) Alpha-terpinol	5.994	121	154435	78.800	ppm		94
35) Nitrobenzene	5.316	77	467008	95.596	ppm		95
36) N-Nitrosopiperidine	5.454	42	209188	81.759	ppm		99
37) Isophorone	5.529	82	870939	92.909	ppm		97
38) 2-Nitrophenol	5.604	139	223043	92.028	ppm		98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL632.D  
 Acq On : 23 Jan 2018 4:10 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.641	107	417607	81.207	ppm	95
40) bis(-2-Chloroethoxy)Me...	5.727	93	480559	83.284	ppm	99
41) Benzoic Acid	5.737	105	186878	85.097	ppm	94
42) 2,4-Dichlorophenol	5.839	162	340398	84.893	ppm	95
43) a,a-Dimethylphenethyla...	5.983	58	852408m	84.434	ppm	
44) 1,2,4-Trichlorobenzene	5.908	180	353982	80.466	ppm	99
45) Naphthalene	5.989	128	1322212	82.382	ppm	100
46) 4-Chloroaniline	6.042	127	350386	46.737	ppm	99
47) 2,6-Dichlorophenol	6.047	162	337131	77.031	ppm	96
48) Hexachlorobutadiene	6.101	225	170703	79.343	ppm	95
49) Hexachloropropene	6.069	213	205892	82.622	ppm	98
50) 4-Chloro-3-methylphenol	6.512	107	335544	82.736	ppm	100
51) N-N-di-n-butylamine	6.357	84	270873	76.624	ppm	95
52) Caprolactam	6.394	113	136498	81.657	ppm	99
53) p-Phenylenediamine	6.389	80	40337	184.580	ppm	88
54) Safrole	6.565	162	205538	46.812	ppm	99
55) 2-Methylnaphthalene	6.656	142	819515	79.307	ppm	98
56) 1-Methylnaphthalene	6.752	142	767701	79.547	ppm	97
58) Hexachlorocyclopentadiene	6.800	237	179707	81.949	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.816	216	316958	77.649	ppm	97
60) 1,2,3,4-Tetrachloroben...	7.094	216	306233	77.271	ppm	99
61) 2,4,6-Trichlorophenol	6.929	196	212183	83.971	ppm	99
62) 2,4,5-Trichlorophenol	6.977	196	215781	81.223	ppm	98
64) Isosafrole	7.073	104	127143	75.617	ppm	# 1
65) 1,1'-Biphenyl	7.110	154	977896	79.297	ppm	99
66) 2-Chloronaphthalene	7.132	162	714178	78.858	ppm	97
67) 2-Nitroaniline	7.233	65	169817	89.410	ppm	94
68) 1,4-Naphthoquinone	7.308	158	231130	78.493	ppm	98
69) m-Dinitrobenzene	7.447	168	114642	86.737	ppm	94
70) Acenaphthylene	7.537	152	1226166	82.327	ppm	99
71) Dimethyl phthalate	7.409	163	757385	75.177	ppm	99
72) 2,6-Dinitrotoluene	7.473	165	201067	98.809	ppm	95
73) Acenaphthene	7.708	153	822273	80.725	ppm	98
74) 3-Nitroaniline	7.639	138	207249	85.922	ppm	98
75) 2,4-Dinitrophenol	7.746	184	63956	102.315	ppm	89
76) Dibenzofuran	7.879	168	1005931	79.932	ppm	99
77) 2,4-Dinitrotoluene	7.869	165	260338	94.733	ppm	96
78) 4-Nitrophenol	7.826	65	126337	87.763	ppm	96
79) Pentachlorobenzene	7.837	250	282753	77.960	ppm	96
80) 1-Naphthylamine	7.959	143	644414	99.421	ppm	96
81) 2-Naphthylamine	8.040	143	729888	82.666	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.002	232	148932	84.919	ppm	97
83) Fluorene	8.216	166	852077	81.970	ppm	98
84) 4-Chlorophenyl-phenyle...	8.216	204	355591	84.980	ppm	95
85) Diethylphthalate	8.104	149	765451	75.533	ppm	99
86) 4-Nitroaniline	8.248	138	224580	80.978	ppm	99
87) 5-Nitro-o-toluidine	8.237	152	249455	88.354	ppm	99
89) Sulfotepp	8.483	322	143343	84.811	ppm	91
90) Octachlorocyclopentene	8.467	307	123230	84.814	ppm	96
92) Thionazin	8.184	107	132409	76.964	ppm	91
93) 4,6-Dinitro-2-methylph...	8.269	198	107598	87.492	ppm	95
94) Diphenylamine	8.333	169	1223746	157.143	ppm	98
95) 1,2 Diphenylhydrazine	8.371	77	722861	77.015	ppm	100
96) N-Nitrosodiphenylamine	8.333	169	1223746	157.136	ppm	98
97) 1,3,5-Trinitrobenzene	8.606	74	95594	87.978	ppm	# 73
98) Diallate	8.611	86	265752	72.802	ppm	98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL632.D  
 Acq On : 23 Jan 2018 4:10 pm  
 Operator : J.Misiurewicz  
 Sample : ICV  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

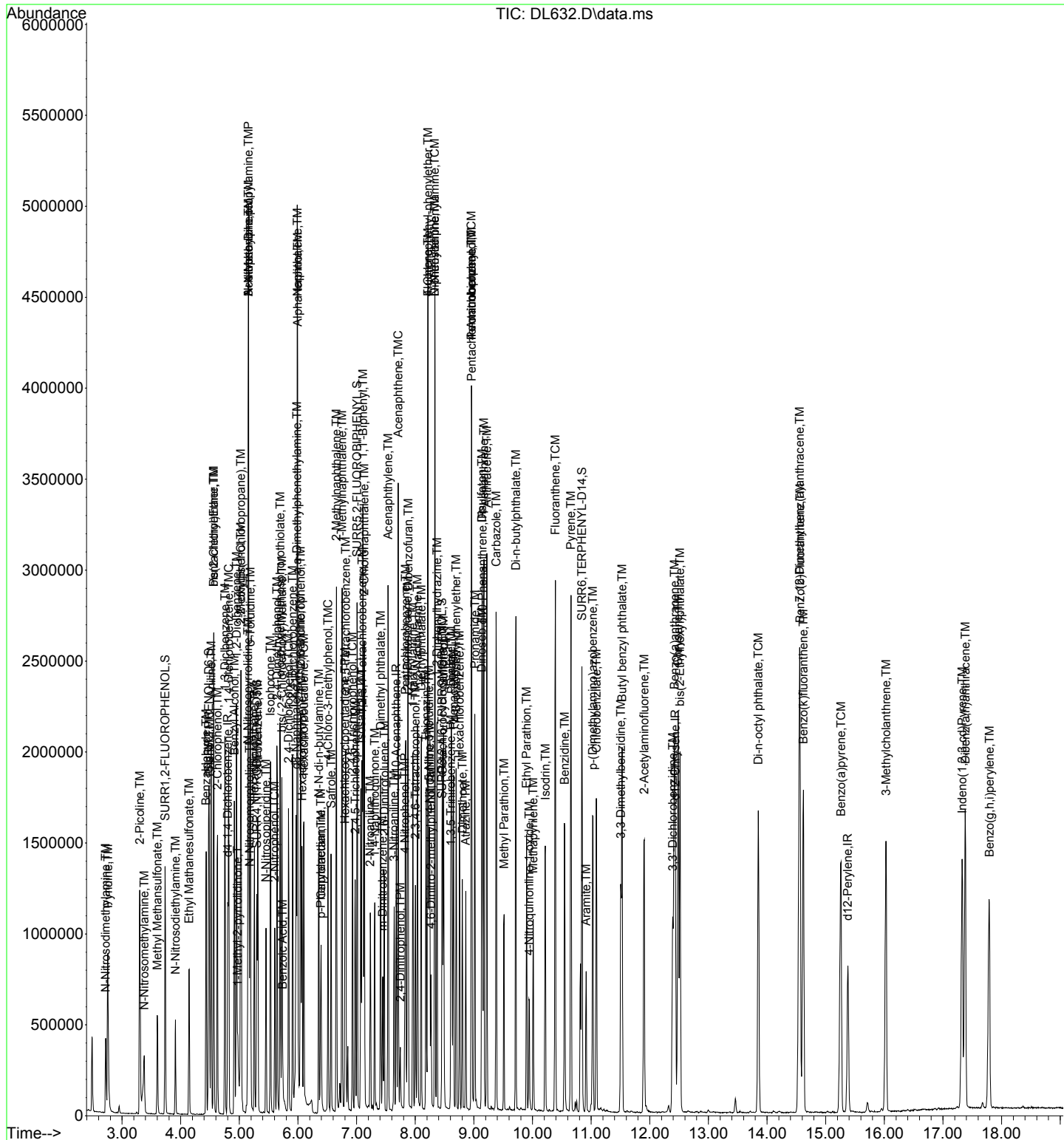
Quant Time: Jan 24 07:57:43 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.622	121	144094	78.451	ppm	98
100) Phenacetin	8.654	108	420256	83.555	ppm	95
101) 4-Bromophenyl-phenylether	8.696	248	199113	81.203	ppm	98
102) Hexachlorobenzene	8.755	284	222722	72.956	ppm	98
103) Dimethoate	8.803	87	237919	79.796	ppm	95
104) Atrazine	8.862	215	66944	46.889	ppm	97
105) Pentachlorophenol	8.958	266	100852	92.071	ppm	99
106) 4-Aminobiphenyl	8.958	169	844757	85.479	ppm	99
107) Pentachloronitrobenzene	8.963	237	75957	89.660	ppm	92
108) Pronamide	9.017	173	347399	82.375	ppm	99
109) Dinoseb	9.134	211	141388	82.079	ppm	94
110) Disulfoton	9.140	88	297125	86.831	ppm	97
111) Phenanthrene	9.172	178	1112359	81.416	ppm	99
112) Anthracene	9.220	178	1131618	83.019	ppm	100
113) Carbazole	9.380	167	1108058	78.650	ppm	99
114) Di-n-butylphthalate	9.717	149	1379932	81.420	ppm	99
115) 4-Nitroquinonline-1-oxide	9.946	190	77936	85.211	ppm	95
116) Fluoranthene	10.390	202	1201271	86.014	ppm	99
118) Methyl Parathion	9.514	109	183543	92.692	ppm	98
119) Ethyl Parathion	9.898	97	136694	83.834	ppm	97
120) Methapyrilene	10.010	58	255076	95.226	ppm	96
121) Isodrin	10.219	193	112732	81.626	ppm	99
122) Benzidine	10.550	184	710140	72.896	ppm	98
123) Pyrene	10.657	202	1231350	84.120	ppm	99
125) Aramite	10.913	185	153905m	85.333	ppm	
126) p-(Dimethylamino)azobe...	11.025	120	387842	83.944	ppm	95
127) Chlorobenzilate	11.089	139	367232	85.232	ppm	97
128) Butyl benzyl phthalate	11.527	149	603826	76.435	ppm	97
129) 3,3-Dimethylbenzidine	11.506	212	487655	47.958	ppm	98
130) 2-Acetylaminofluorene	11.906	181	500721	83.159	ppm	96
131) 3,3'-Dichlorobenzidine	12.392	252	306685	47.437	ppm	99
132) Benzo(a)anthracene	12.419	228	1125855	81.246	ppm	99
133) Chrysene	12.483	228	1093148	84.360	ppm	100
134) bis(2-Ethylhexyl)phtha...	12.515	149	854628	80.318	ppm	97
136) Di-n-octyl phthalate	13.851	149	1392830	78.205	ppm	99
137) 7,12-Dimethylbenz(a)an...	14.556	256	542750	82.990	ppm	94
138) Benzo(b)Fluoranthene	14.561	252	1189038	84.801	ppm	99
139) Benzo(k)fluoranthene	14.620	252	1127882	85.087	ppm	99
140) Benzo(a)pyrene	15.261	252	1038211	86.102	ppm	99
141) 3-Methylcholanthrene	16.030	268	603585	85.479	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.328	276	921916	81.570	ppm	96
143) Dibenz(a,h)anthracene	17.381	278	1035101	83.778	ppm	99
144) Benzo(g,h,i)perylene	17.792	276	840392	74.340	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUdata\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

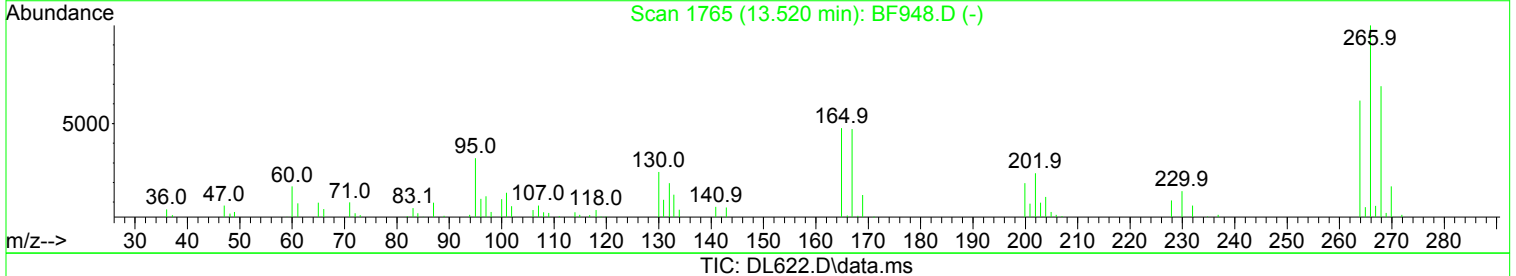
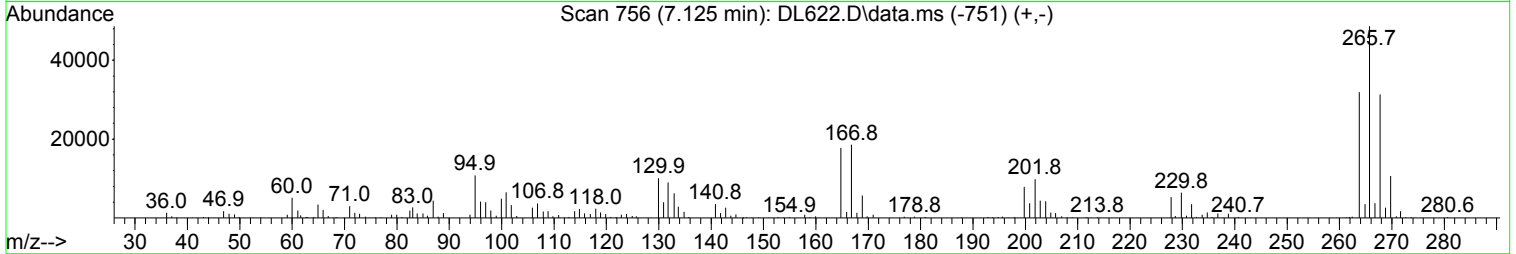
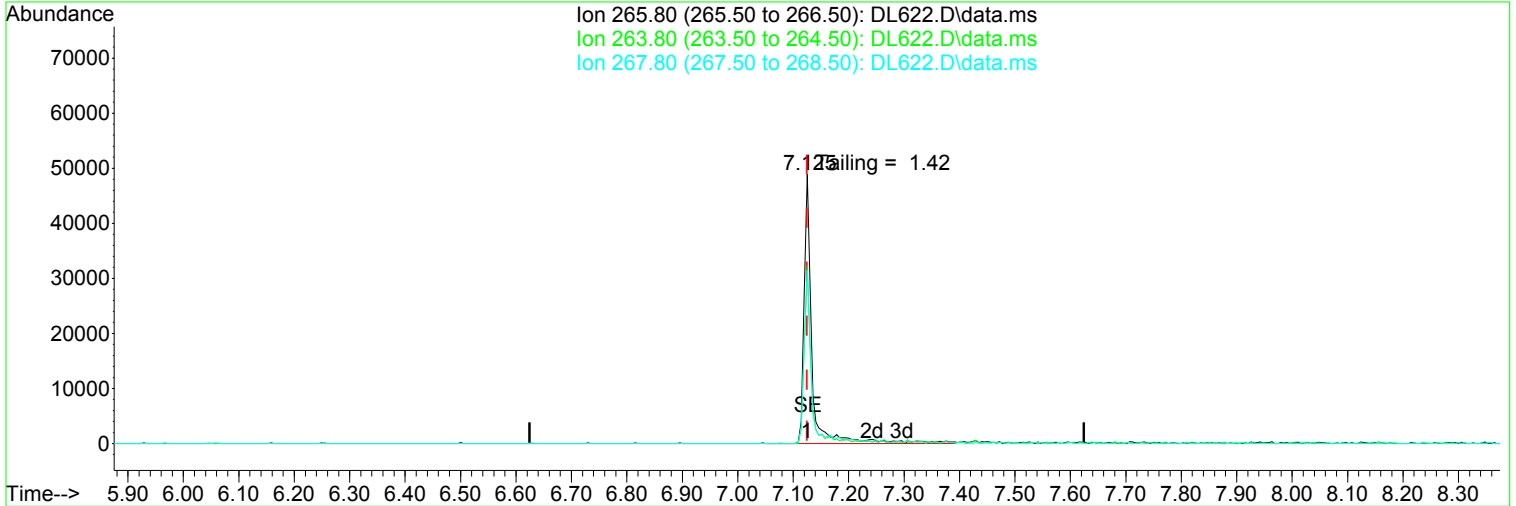
Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUdata\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL622.D  
Acq On : 23 Jan 2018 11:26 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 NG DFTTP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 07:26:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



(5) Pentachlorophenol (TCM)

7.125min ( 0.000) 50.00 ppm

response 44880

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	63.50	65.60
267.80	64.20	64.44
0.00	0.00	0.00

Manual Integration:

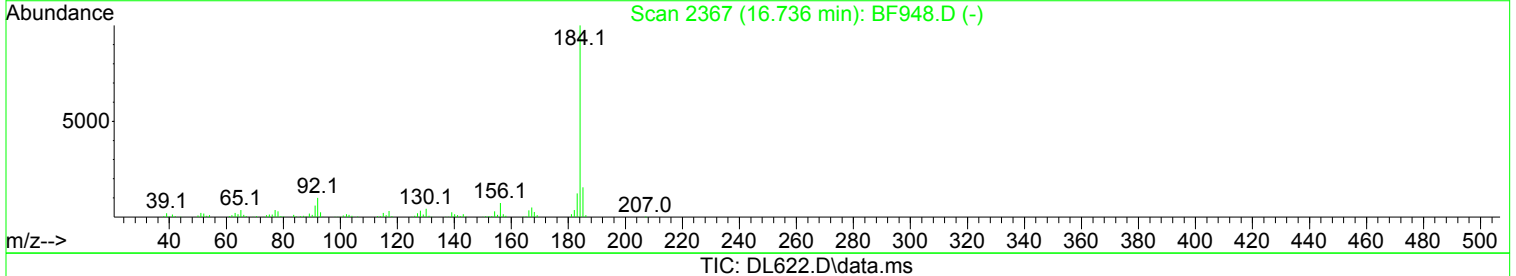
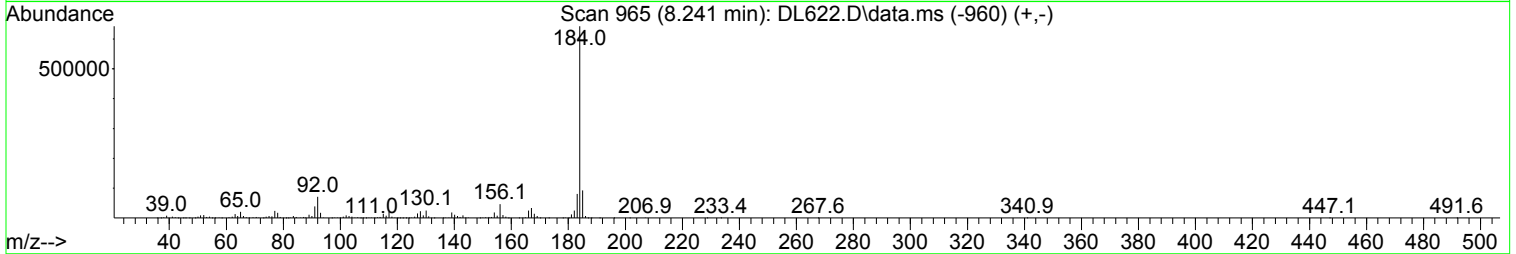
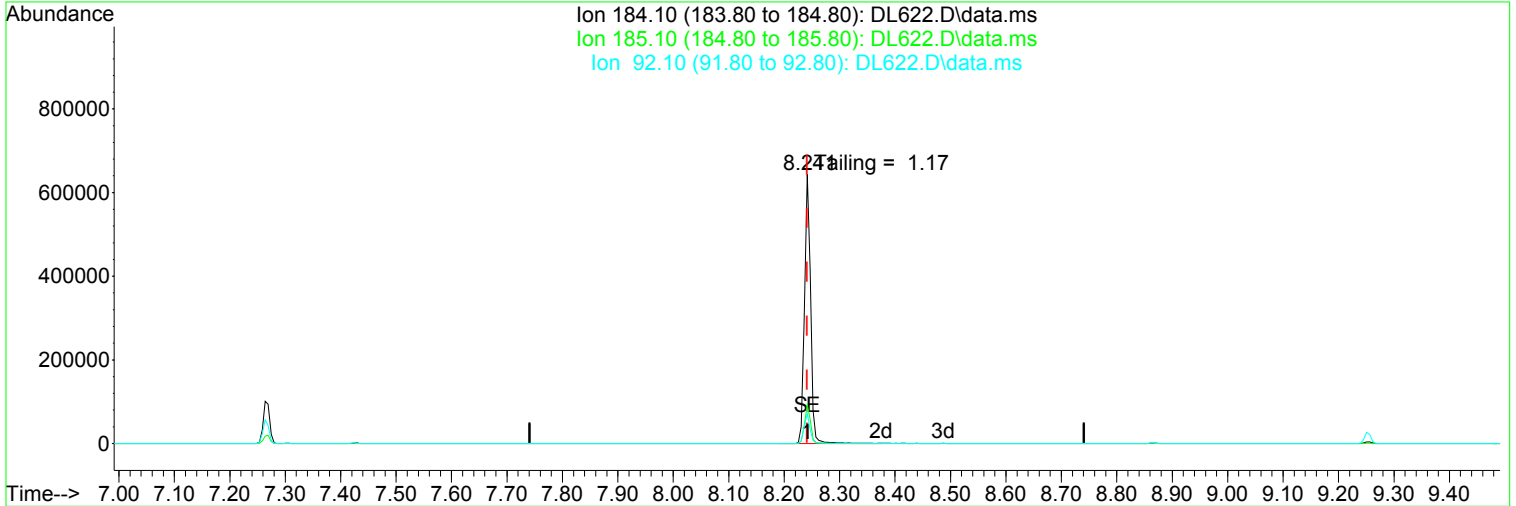
After

Other - Tailing

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL622.D  
Acq On : 23 Jan 2018 11:26 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 NG DFTTP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 07:26:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



(8) Benzidine (T)

8.241min ( 0.000) 50.00 ppm

response	486117
Ion	Exp% Act%
184.10	100.00 100.00
185.10	14.80 14.43
92.10	10.10 11.10
0.00	0.00 0.00

Manual Integration:  
After  
Other - Tailing  
01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL622.D  
 Acq On : 23 Jan 2018 11:26 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 NG DFTTP  
 ALS Vial : 2 Sample Multiplier: 1

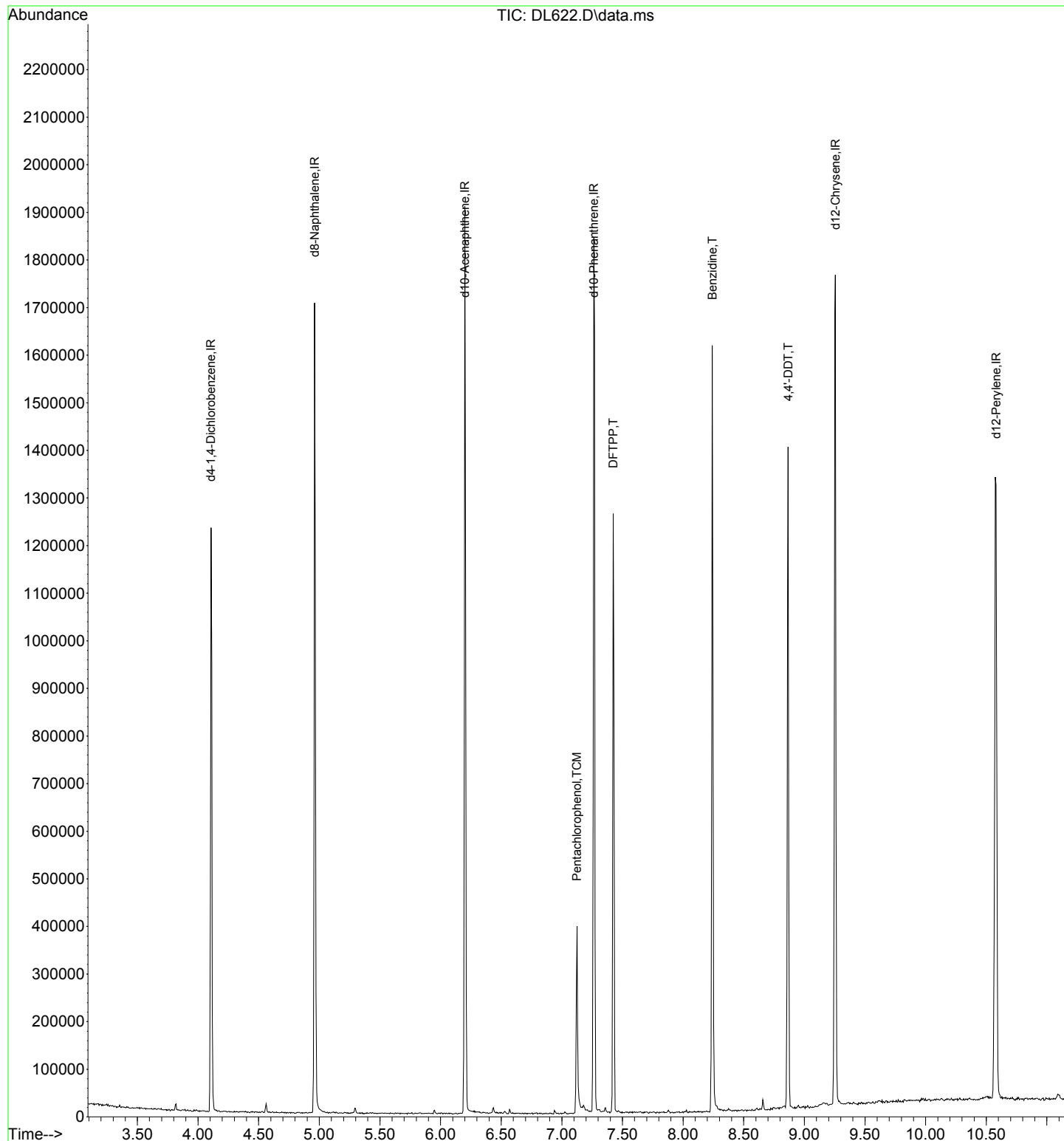
Quant Time: Jan 24 07:26:55 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Wed Jan 24 07:26:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
-----							
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.107	152	167263	40.00	ppm	0.00	
2) d8-Naphthalene	4.962	136	643501	40.00	ppm	0.00	
3) d10-Acenaphthene	6.201	164	315010	40.00	ppm	0.00	
4) d10-Phenanthrene	7.264	188	572438	40.00	ppm	0.00	
7) d12-Chrysene	9.256	240	497144	40.00	ppm	0.00	
12) d12-Perylene	10.581	264	519454	40.00	ppm	0.00	
Target Compounds							
5) Pentachlorophenol	7.125	266	44880	50.000	ppm		Qvalue 99
6) DFTTP	7.424	198	85933	50.000	ppm		90
8) Benzidine	8.241	184	486117	50.000	ppm		98
9) 4,4'-DDE	7.424	246	1286		N.D.		
10) 4,4'-DDD	8.658	235	2604		N.D.		
11) 4,4'-DDT	8.866	235	201750	50.000	ppm		98
-----							

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL622.D  
Acq On : 23 Jan 2018 11:26 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 NG DFTTP  
ALS Vial : 2 Sample Multiplier: 1

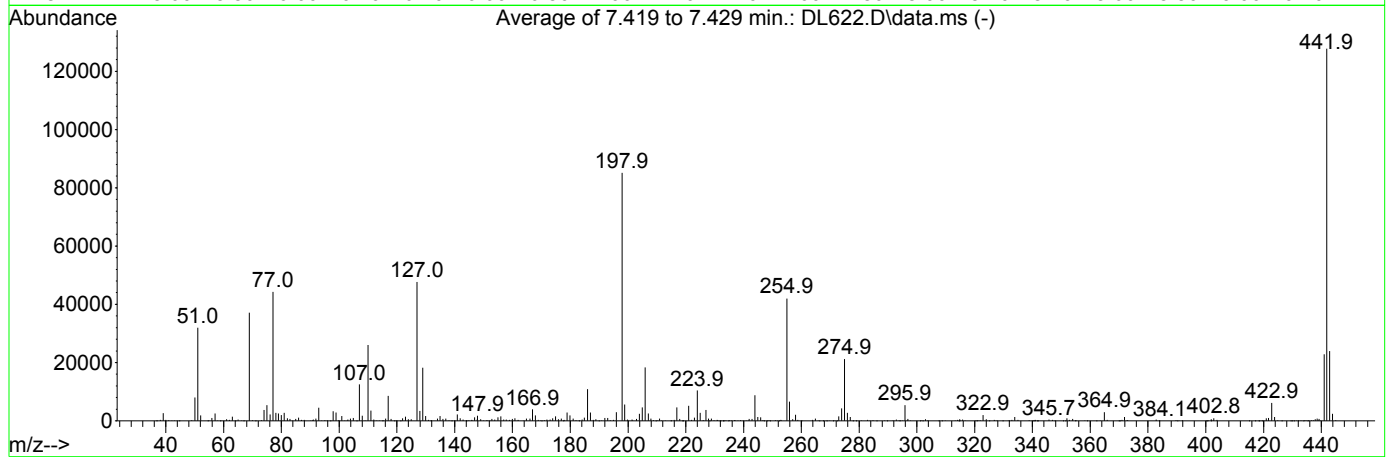
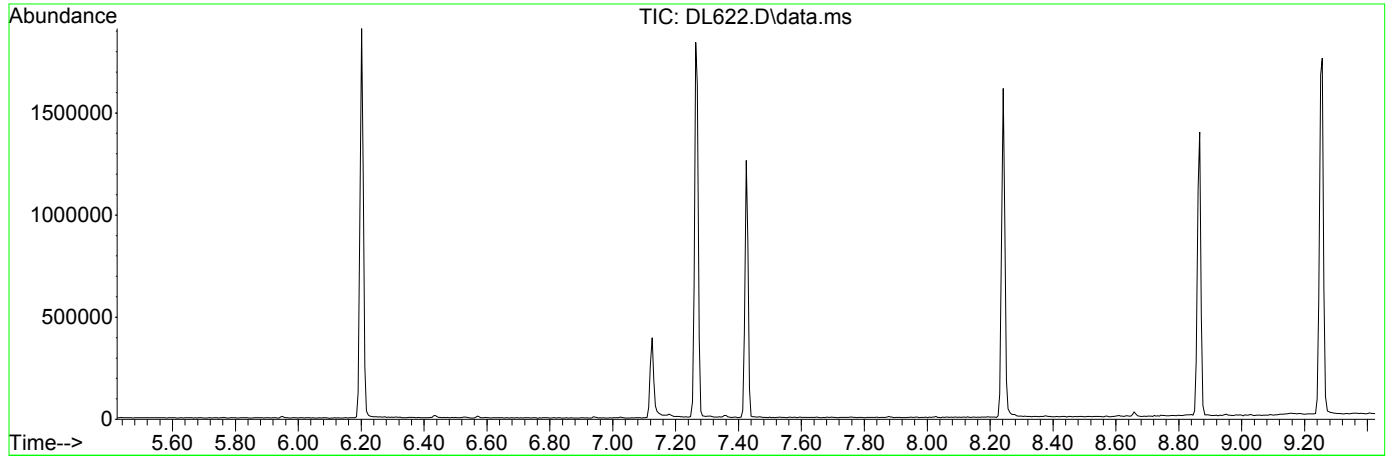
Quant Time: Jan 24 07:26:55 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Wed Jan 24 07:26:38 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL622.D  
 Acq On : 23 Jan 2018 11:26 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 NG DFTTP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Wed Oct 03 16:33:08 2012



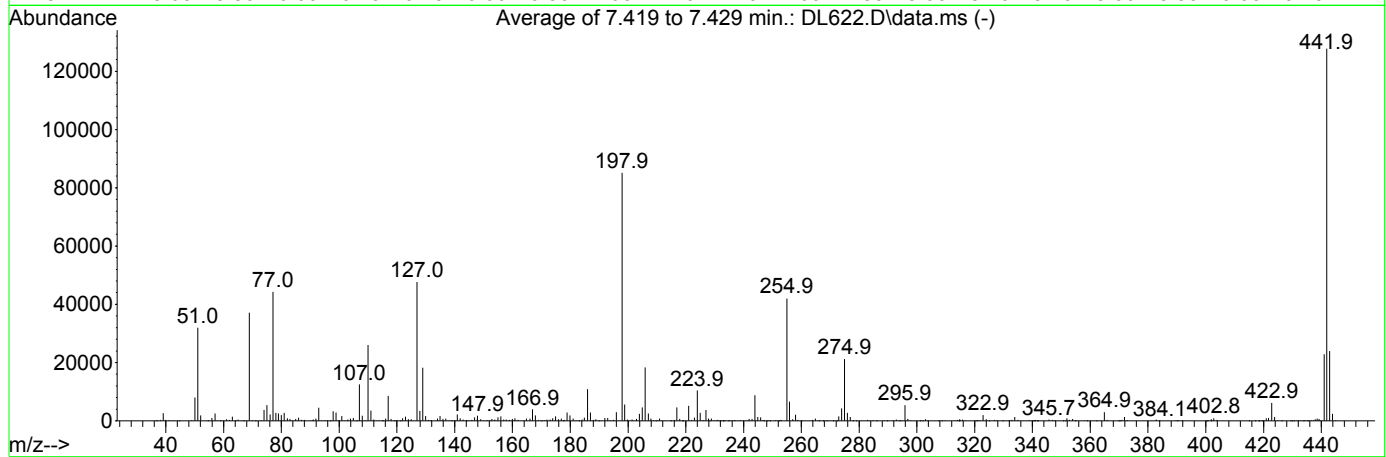
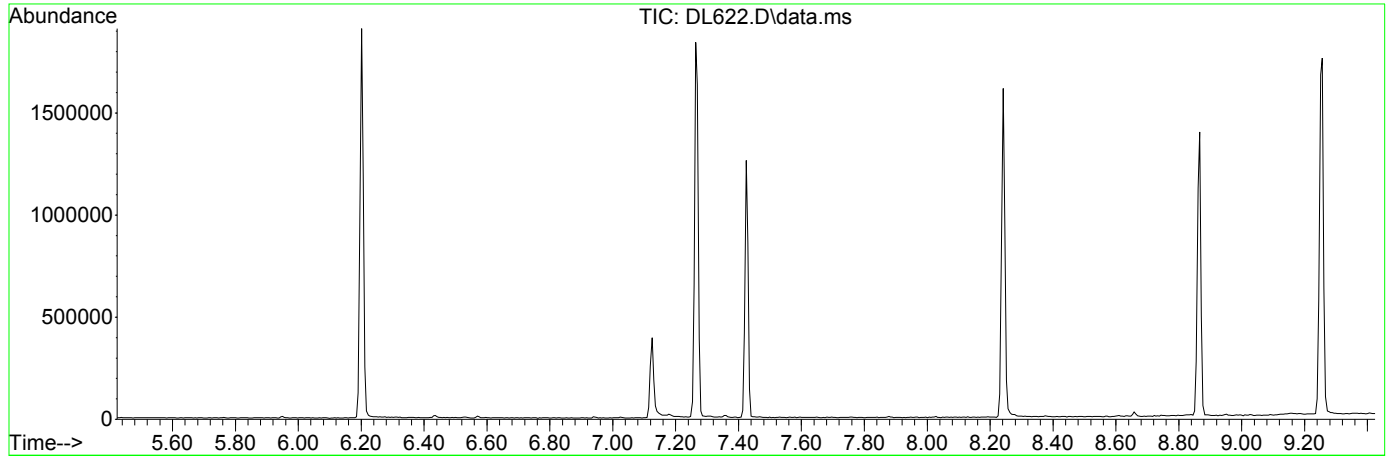
AutoFind: Scans 811, 812, 813; Background Corrected with Scan 807

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.5	31965	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	37189	PASS
70	69	0.00	2	0.7	255	PASS
127	198	40	60	55.9	47648	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	85165	PASS
199	198	5	9	6.6	5582	PASS
275	198	10	30	24.9	21183	PASS
365	198	1	500	3.6	3027	PASS
441	443	0.01	100	95.2	22837	PASS
442	198	50	500	150.0	127736	PASS
443	442	17	23	18.8	23976	PASS

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL622.D  
 Acq On : 23 Jan 2018 11:26 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 NG DFTTP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973A\METHODS\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Wed Jan 24 07:26:38 2018



AutoFind: Scans 811, 812, 813; Background Corrected with Scan 807

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.5	31965	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.7	37189	PASS
70	69	0.00	2	0.7	255	PASS
127	198	10	80	55.9	47648	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	85165	PASS
199	198	5	9	6.6	5582	PASS
275	198	10	60	24.9	21183	PASS
365	198	1	500	3.6	3027	PASS
441	442	0.01	24	17.9	22837	PASS
442	442	100	100	100.0	127736	PASS
443	442	15	24	18.8	23976	PASS

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL623.D  
 Acq On : 23 Jan 2018 11:51 am  
 Operator : J.Misiurewicz  
 Sample : BLK  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 24 07:55:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 07:09:23 2018  
 Response via : Initial Calibration

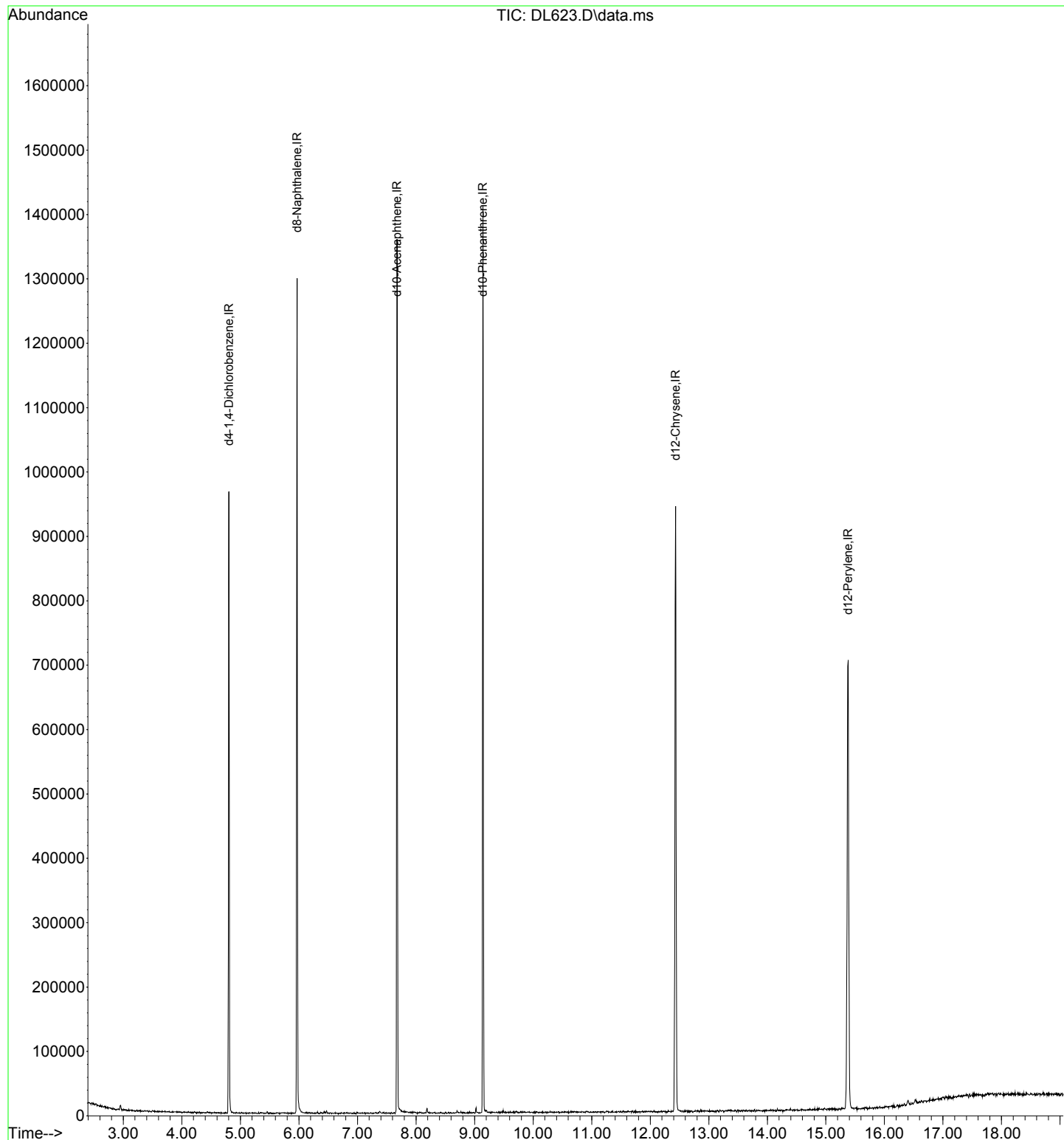
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	157012	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	598067	40.00	ppm	0.00
57) d10-Acenaphthene	7.673	164	282069	40.00	ppm	0.00
91) d10-Phenanthrene	9.142	188	483189	40.00	ppm	0.00
117) d12-Chrysene	12.432	240	421880	40.00	ppm	0.00
135) d12-Perylene	15.380	264	447719	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	0.00%#
12) SURR2,PHENOL-D6	0.000	99	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	0.00%#
34) SURR4,NITROBENZENE-D5	5.275	82	120	0.03	ppm	-0.02
Spiked Amount	100.000	Range	37 - 117	Recovery	=	0.03%#
63) SURR5,2-FLUOROBIPHENYL	0.000	172	0	0.00	ppm	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	0.00%#
88) SURR3,2,4,6-TRIBROMOPH...	0.000	330	0	0.00	ppm	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.00%#
124) SURR6,TERPHENYL-D14	10.851	244	122	0.01	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	0.01%#

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL623.D  
Acq On : 23 Jan 2018 11:51 am  
Operator : J.Misiurewicz  
Sample : BLK  
Misc : Initial Calibration 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

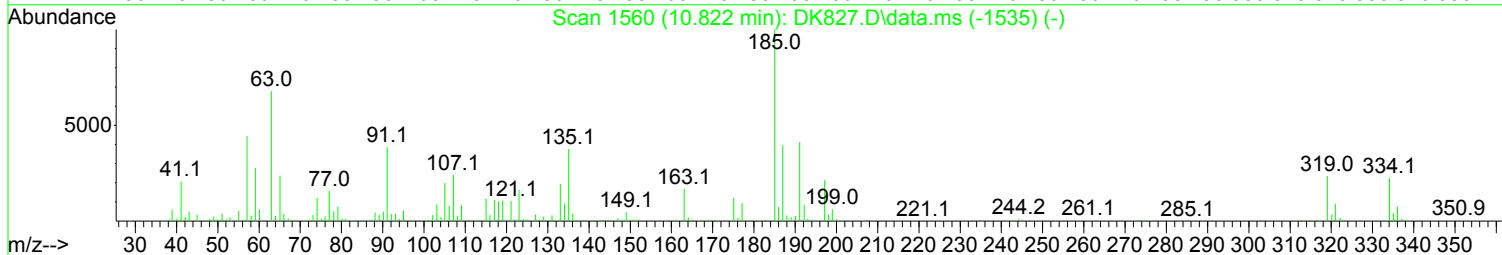
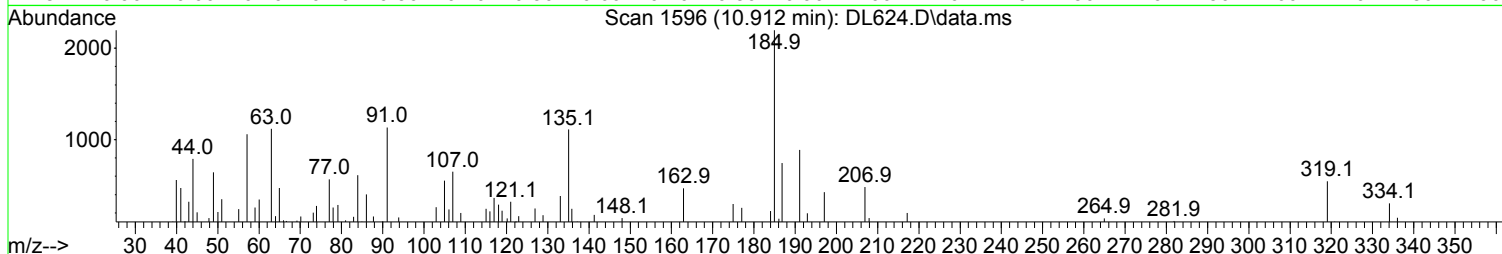
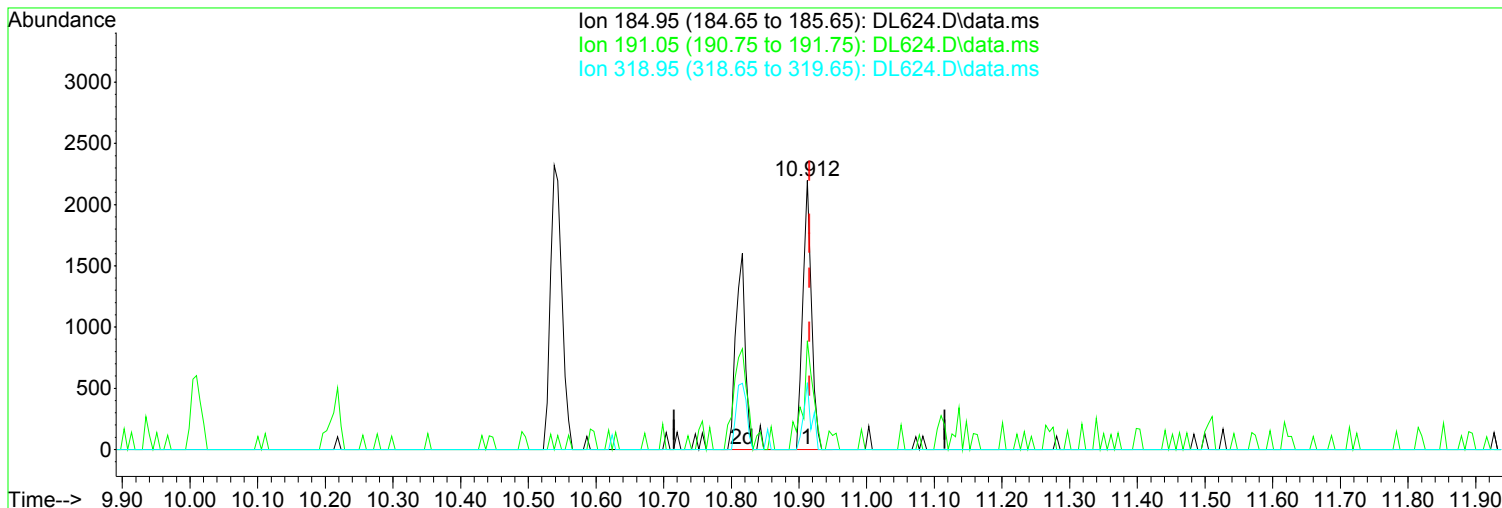
Quant Time: Jan 24 07:55:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL624.D  
Acq On : 23 Jan 2018 12:20 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.912min (-0.003) 2.53 ppm m

After

response 3601

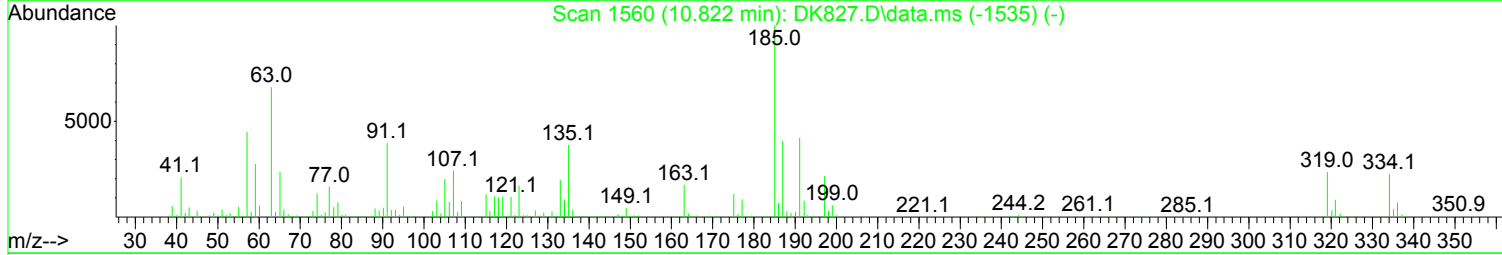
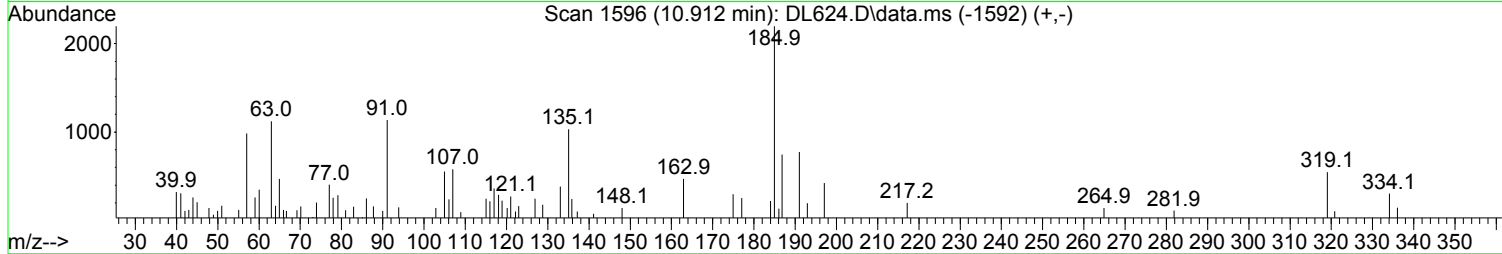
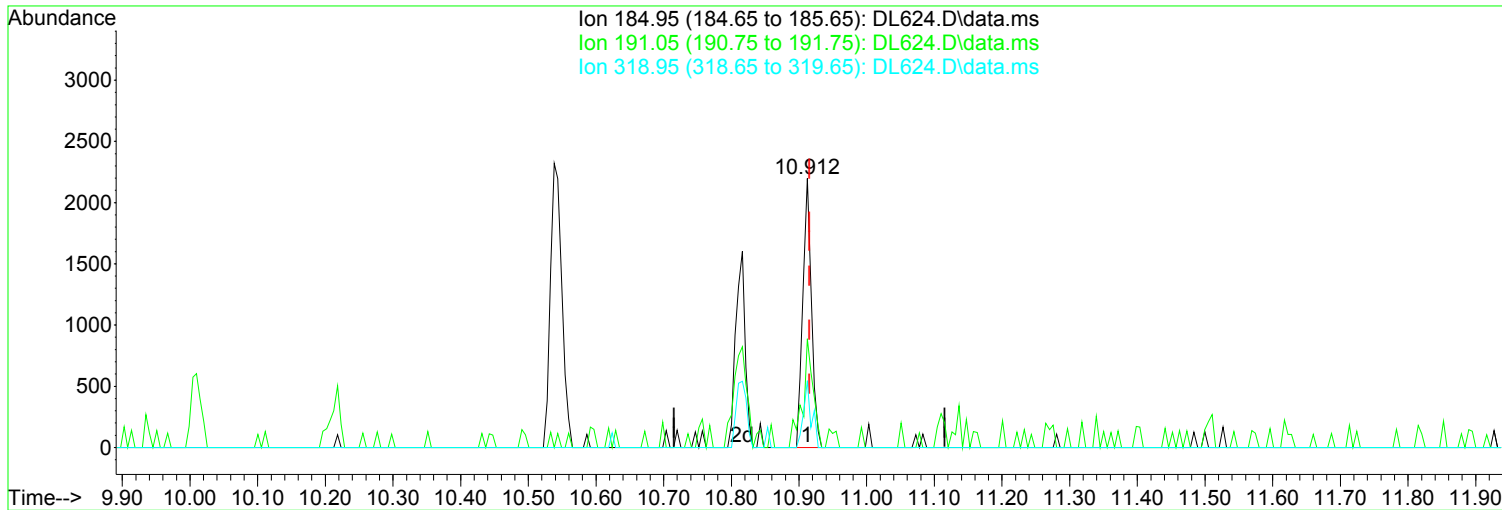
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	40.37
318.95	19.40	24.90
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL624.D  
Acq On : 23 Jan 2018 12:20 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL624.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.912min (-0.003) 1.39 ppm

Before

response 1977

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	35.18
318.95	19.40	24.90
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.802	152	156739	40.00	ppm	0.00
33) d8-Naphthalene	5.966	136	610662	40.00	ppm	0.00
57) d10-Acenaphthene	7.676	164	293908	40.00	ppm	0.00
91) d10-Phenanthrene	9.139	188	494836	40.00	ppm	0.00
117) d12-Chrysene	12.429	240	448163	40.00	ppm	-0.01
135) d12-Perylene	15.377	264	488553	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.734	112	11922	2.18	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	1.09%#
12) SURR2,PHENOL-D6	4.471	99	13808	2.11	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	1.05%#
34) SURR4,NITROBENZENE-D5	5.293	82	9611	1.74	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	1.74%#
63) SURR5,2-FLUOROBIPHENYL	7.008	172	25790	2.35	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	2.35%#
88) SURR3,2,4,6-TRIBROMOPH...	8.455	330	3282	1.46	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.73%#
124) SURR6,TERPHENYL-D14	10.837	244	23566	2.40	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	2.40%#

Target Compounds						Qvalue
2) Pyridine	2.783	79	11357	2.100	ppm	94
3) N-Nitrosodimethylamine	2.740	74	5629	2.050	ppm	94
4) 2-Picoline	3.317	93	12888	2.227	ppm	96
5) N-Nitrosomethylamine	3.381	42	4737	2.235	ppm	85
6) Methyl Methansulfonate	3.606	80	5328	1.931	ppm	82
8) N-Nitrosodiethylamine	3.910	102	6829	2.277	ppm	83
9) Ethyl Mathanesulfonate	4.140	79	8803	2.333	ppm	88
10) Benzaldehyde	4.434	106	16987	4.753	ppm	94
11) Aniline	4.519	93	22900	2.433	ppm	84
13) Phenol	4.482	94	15945	2.492	ppm	94
14) bis(2-Clethyl)Ether	4.562	93	12426	2.610	ppm	95
15) Pentachloroethane	4.562	117	5205	2.770	ppm	90
16) 2-Chlorophenol	4.626	128	12967	2.467	ppm	93
17) 1,3-Diclbzene	4.754	146	14027	2.508	ppm	92
18) 1,4-Dichlorobenzene	4.818	146	14788	2.631	ppm	88
19) 1,2-Diclbzene	4.952	146	13515	2.529	ppm	95
20) Benzyl Alcohol	4.914	79	8168	2.016	ppm	85
21) 1-Methyl-2-pyrrolidinone	4.941	99	7408	2.249	ppm	90
22) 2,2'-oxybis(1-Chloropr...	5.026	45	10605	2.359	ppm	# 62
23) 2-Methylphenol	5.010	108	11752	2.497	ppm	93
24) 3+4-Methylphenol	5.149	108	12406	2.518	ppm	95
25) Acetophenone	5.149	105	17425	2.600	ppm	98
26) N-Nitroso-Di-n-propyla...	5.144	70	8145	2.379	ppm	90
27) N-Nitrosopyrrolidine	5.133	100	6412	2.439	ppm	77
28) N-Nitrosomorpholine	5.165	56	6373	2.481	ppm	90
29) o-Toluidine	5.181	106	20120	2.584	ppm	90
30) Hexachloroethane	5.251	117	5587	2.757	ppm	96
31) o,o,o-Triethylphosphor...	5.694	198	4856	2.223	ppm	78
32) Alpha-terpinol	5.988	121	4635	2.729	ppm	90
35) Nitrobenzene	5.309	77	10469	1.882	ppm	99
36) N-Nitrosopiperidine	5.448	42	6191	2.292	ppm	96
37) Isophorone	5.523	82	21286	2.250	ppm	97
38) 2-Nitrophenol	5.603	139	4838	1.696	ppm	88

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.635	107	11411	2.198	ppm	97
40) bis(-2-Chloroethoxy)Me...	5.721	93	14290	2.512	ppm	98
42) 2,4-Dichlorophenol	5.833	162	7991	1.956	ppm	95
43) a,a-Dimethylphenethyla...	5.827	58	22474	2.166	ppm	89
44) 1,2,4-Trichlorobenzene	5.908	180	10636	2.341	ppm	94
45) Naphthalene	5.988	128	41207	2.673	ppm	96
46) 4-Chloroaniline	6.036	127	16957	2.249	ppm	96
47) 2,6-Dichlorophenol	6.046	162	9743	2.200	ppm	87
48) Hexachlorobutadiene	6.100	225	4681	1.877	ppm	95
49) Hexachloropropene	6.068	213	5464	1.834	ppm	85
50) 4-Chloro-3-methylphenol	6.506	107	9055	2.283	ppm	99
51) N-N-di-n-butylamine	6.351	84	9758	2.903	ppm	92
52) Caprolactam	6.356	113	3487	2.288	ppm	# 64
54) Safrole	6.565	162	10338	2.369	ppm	86
55) 2-Methylnaphthalene	6.650	142	24589	2.500	ppm	96
56) 1-Methylnaphthalene	6.746	142	22838	2.483	ppm	98
58) Hexachlorocyclopentadiene	6.800	237	4391	1.597	ppm	87
59) 1,2,4,5-Tetrachloroben...	6.810	216	9845	2.186	ppm	95
60) 1,2,3,4-Tetrachloroben...	7.088	216	9553	2.244	ppm	96
61) 2,4,6-Trichlorophenol	6.928	196	5557	1.973	ppm	88
62) 2,4,5-Trichlorophenol	6.971	196	6119	2.094	ppm	95
64) Isosafrole	7.067	104	3977	2.145	ppm	# 34
65) 1,1'-Biphenyl	7.104	154	30872	2.533	ppm	96
66) 2-Chloronaphthalene	7.125	162	21925	2.436	ppm	92
67) 2-Nitroaniline	7.227	65	3685	1.582	ppm	82
68) 1,4-Naphthoquinone	7.302	158	6397	2.238	ppm	73
69) m-Dinitrobenzene	7.435	168	1758	1.055	ppm	92
70) Acenaphthylene	7.537	152	35297	2.466	ppm	96
71) Dimethyl phthalate	7.403	163	25174	2.535	ppm	97
72) 2,6-Dinitrotoluene	7.462	165	3567	1.604	ppm	94
73) Acenaphthene	7.702	153	23876	2.442	ppm	98
74) 3-Nitroaniline	7.633	138	4175	1.557	ppm	95
76) Dibenzofuran	7.873	168	31047	2.470	ppm	94
77) 2,4-Dinitrotoluene	7.857	165	3587	1.126	ppm	93
78) 4-Nitrophenol	7.814	65	1928	1.056	ppm	# 69
79) Pentachlorobenzene	7.830	250	9313	2.205	ppm	96
80) 1-Naphthylamine	7.953	143	16286	2.530	ppm	97
81) 2-Naphthylamine	8.033	143	21213	2.449	ppm	95
82) 2,3,4,6-Tetrachlorophenol	7.996	232	3094	1.367	ppm	89
83) Fluorene	8.210	166	25805	2.487	ppm	100
84) 4-Chlorophenyl-phenyle...	8.210	204	10807	2.423	ppm	92
85) Diethylphthalate	8.092	149	25829	2.462	ppm	99
86) 4-Nitroaniline	8.231	138	4378	1.492	ppm	88
87) 5-Nitro-o-toluidine	8.226	152	4542	1.476	ppm	96
89) Sulfotepp	8.477	322	4038	1.737	ppm	89
90) Octachlorocyclopentene	8.461	307	3280	1.607	ppm	86
92) Thionazin	8.172	107	4418	2.940	ppm	85
93) 4,6-Dinitro-2-methylph...	8.258	198	708	0.403	ppm	# 4
94) Diphenylamine	8.327	169	37829	5.253	ppm	98
95) 1,2 Diphenylhydrazine	8.365	77	24484	2.818	ppm	93
96) N-Nitrosodiphenylamine	8.327	169	37829	5.253	ppm	98
97) 1,3,5-Trinirobenzene	8.589	74	954	0.631	ppm	# 46
98) Diallate	8.610	86	9698	2.759	ppm	96
99) Phorate	8.616	121	4474	2.669	ppm	87
100) Phenacetin	8.632	108	9538	1.929	ppm	94
101) 4-Bromophenyl-phenylether	8.696	248	6361	2.405	ppm	93

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL624.D  
 Acq On : 23 Jan 2018 12:20 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 24 06:46:38 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

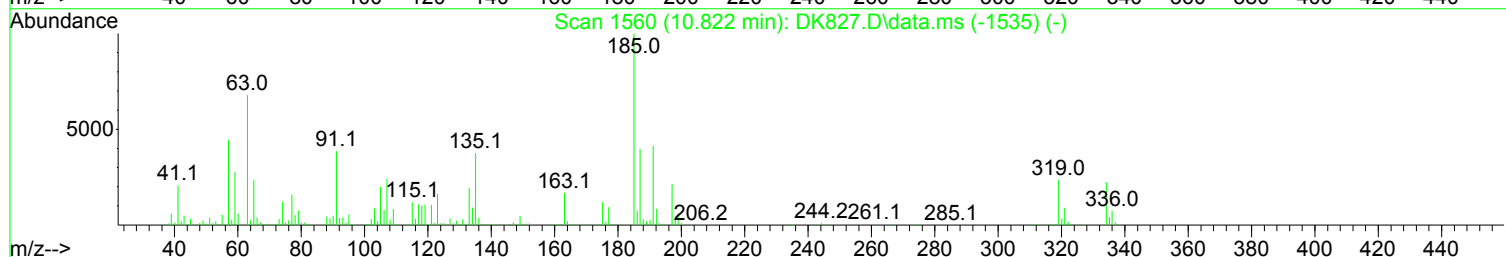
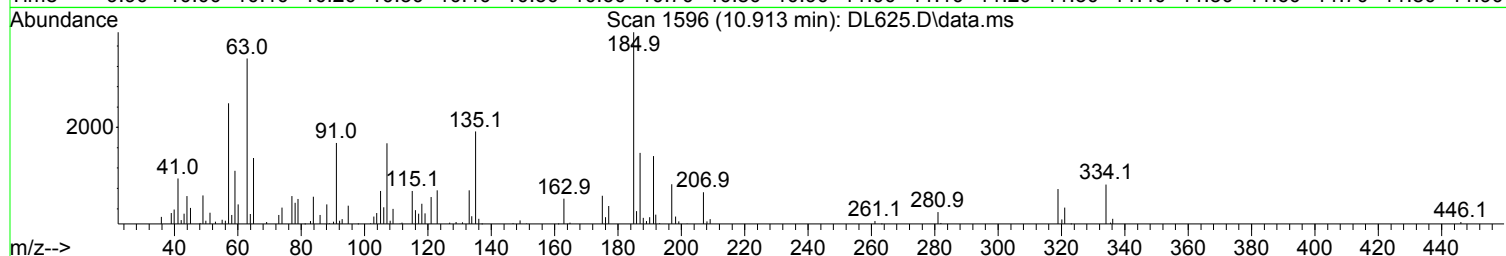
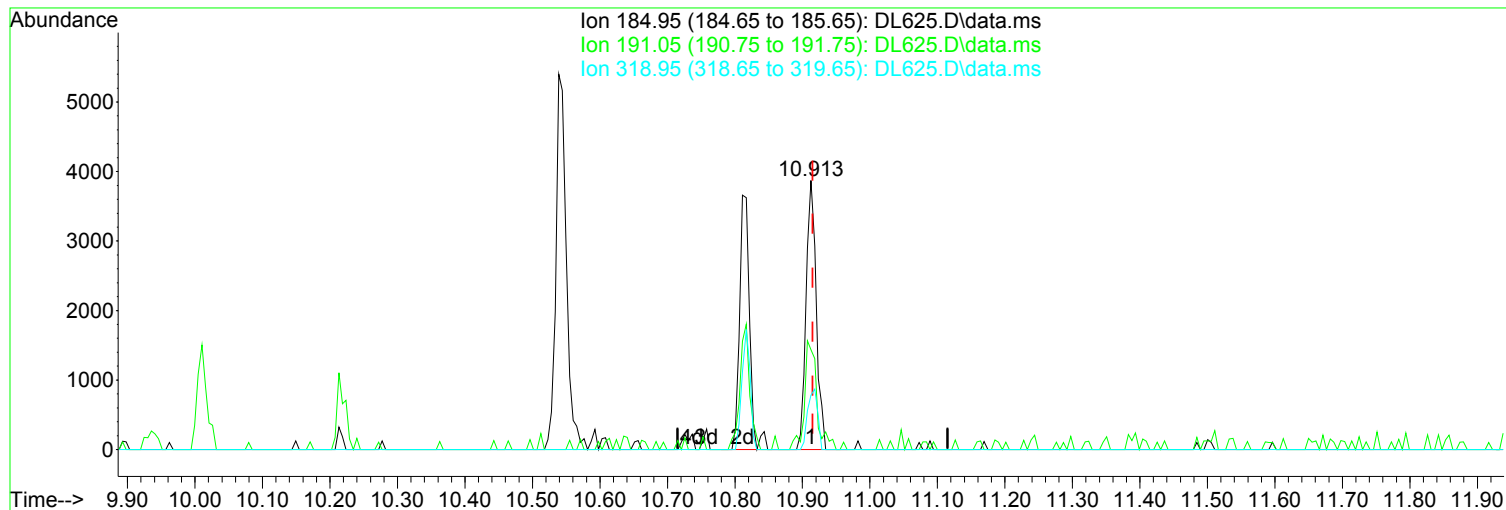
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) Hexachlorobenzene	8.749	284	7916	2.287	ppm	94
103) Dimethoate	8.786	87	6727	2.182	ppm	99
104) Atrazine	8.851	215	3074	2.062	ppm	95
105) Pentachlorophenol	8.952	266	772	0.371	ppm #	72
106) 4-Aminobiphenyl	8.952	169	21983	2.292	ppm	96
107) Pentachloronitrobenzene	8.957	237	1296	1.222	ppm	72
108) Pronamide	9.005	173	7505	1.878	ppm	96
109) Dinoseb	9.128	211	1212	0.477	ppm	94
110) Disulfoton	9.139	88	12083	3.574	ppm	75
111) Phenanthrene	9.166	178	33021	2.526	ppm	97
112) Anthracene	9.214	178	31906	2.444	ppm	96
113) Carbazole	9.374	167	31340	2.350	ppm	98
114) Di-n-butylphthalate	9.710	149	34458	2.101	ppm	99
115) 4-Nitroquinonline-1-oxide	9.940	190	919	0.784	ppm	89
116) Fluoranthene	10.383	202	28705	2.153	ppm	95
118) Methyl Parathion	9.508	109	2466	1.110	ppm	94
119) Ethyl Parathion	9.892	97	1609	0.975	ppm	95
120) Methapyrilene	10.010	58	5915	1.960	ppm	95
121) Isodrin	10.213	193	3364	2.858	ppm	88
122) Benzidine	10.544	184	20866	2.476	ppm	96
123) Pyrene	10.650	202	32290	2.663	ppm	95
125) Aramite	10.912	185	3601m	2.528	ppm	
126) p-(Dimethylamino)azobe...	11.024	120	9378	2.508	ppm	90
127) Chlorobenzilate	11.083	139	9009	2.477	ppm	87
128) Butyl benzyl phthalate	11.526	149	16613	2.444	ppm	93
129) 3,3-Dimethylbenzidine	11.500	212	20017	2.095	ppm	99
130) 2-Acetylaminofluorene	11.890	181	9423	1.850	ppm	95
131) 3,3'-Dichlorobenzidine	12.386	252	13926	2.177	ppm	95
132) Benzo(a)anthracene	12.408	228	32244	2.534	ppm	94
133) Chrysene	12.472	228	30487	2.583	ppm	94
134) bis(2-Ethylhexyl)phtha...	12.515	149	22138	2.350	ppm	94
136) Di-n-octyl phthalate	13.850	149	32687	1.929	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.533	256	14752	2.126	ppm	98
138) Benzo(b)Fluoranthene	14.533	252	33024	2.312	ppm	95
139) Benzo(k)fluoranthene	14.592	252	32439	2.376	ppm	95
140) Benzo(a)pyrene	15.238	252	27297	2.239	ppm	95
141) 3-Methylcholanthrene	16.013	268	15622	2.156	ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.311	276	27700	2.485	ppm	96
143) Dibenz(a,h)anthracene	17.364	278	30229	2.395	ppm	99
144) Benzo(g,h,i)perylene	17.770	276	30779	1.119	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL625.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.913min (-0.003) 5.60 ppm m

After

response 7813

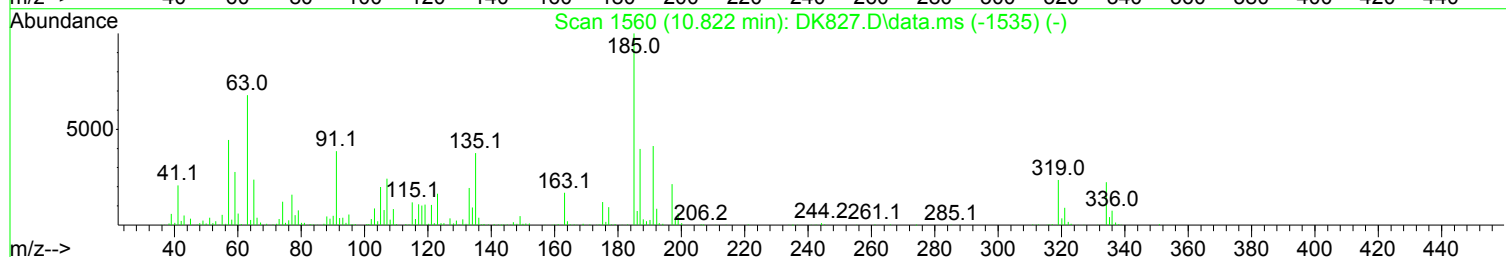
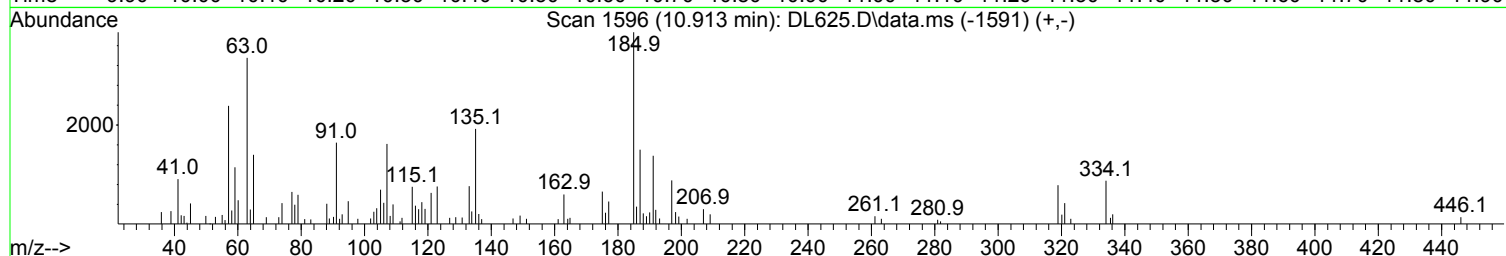
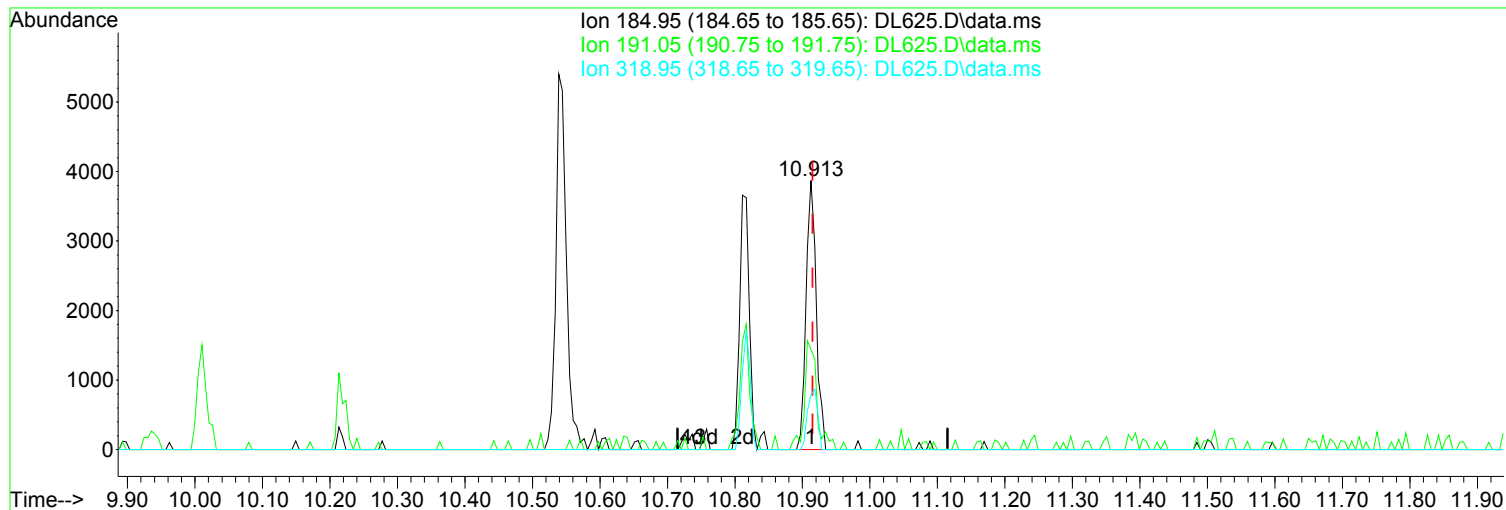
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	37.16
318.95	19.40	20.26
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL625.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.913min (-0.003) 2.90 ppm

Before

response 4048

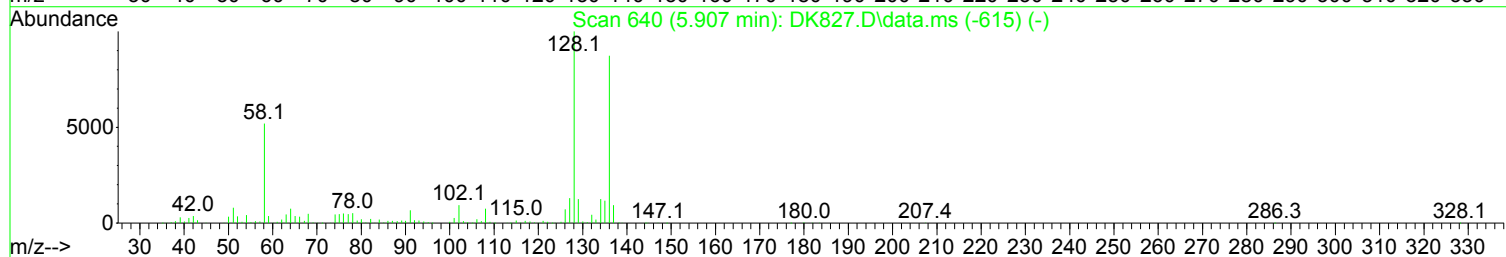
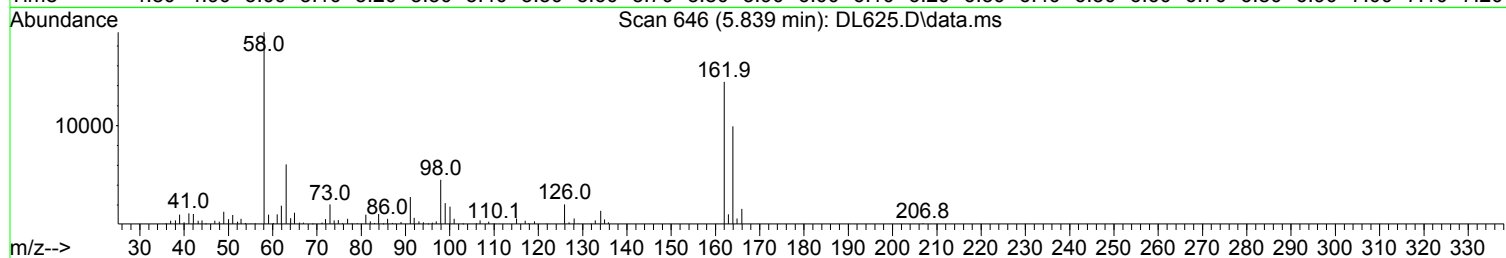
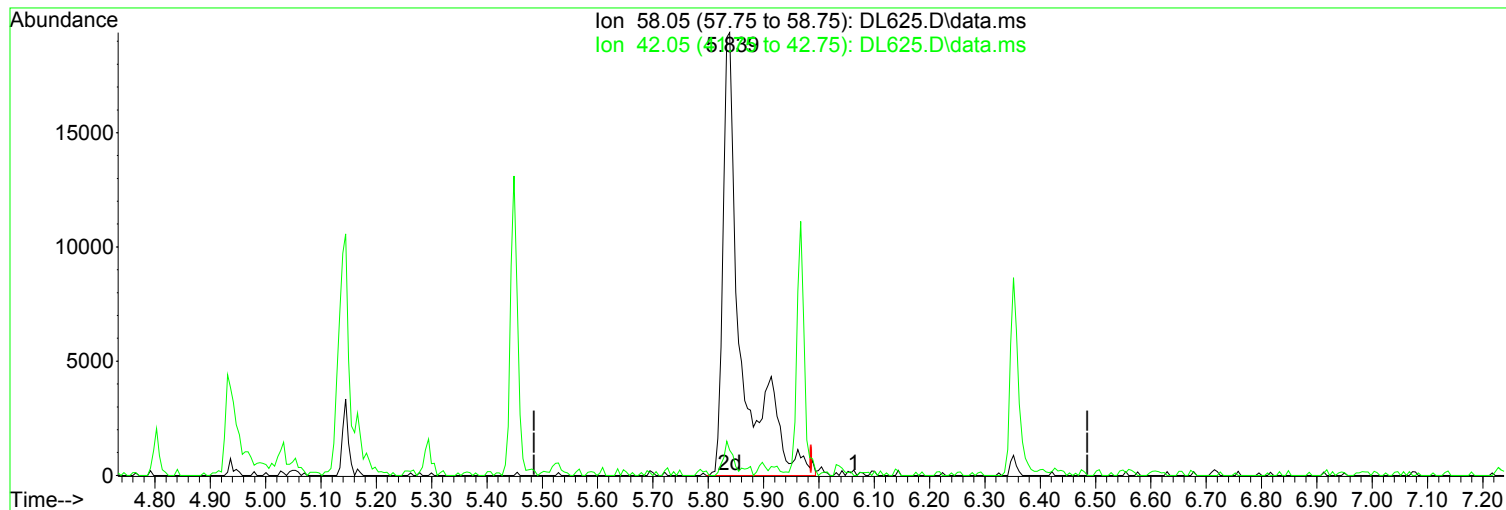
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	34.03
318.95	19.40	20.26
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.839min (-0.147) 4.34 ppm m

After

response 44184

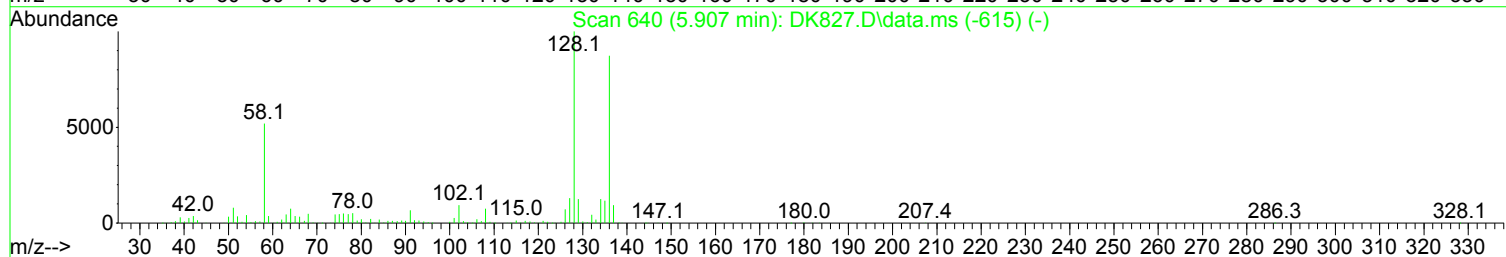
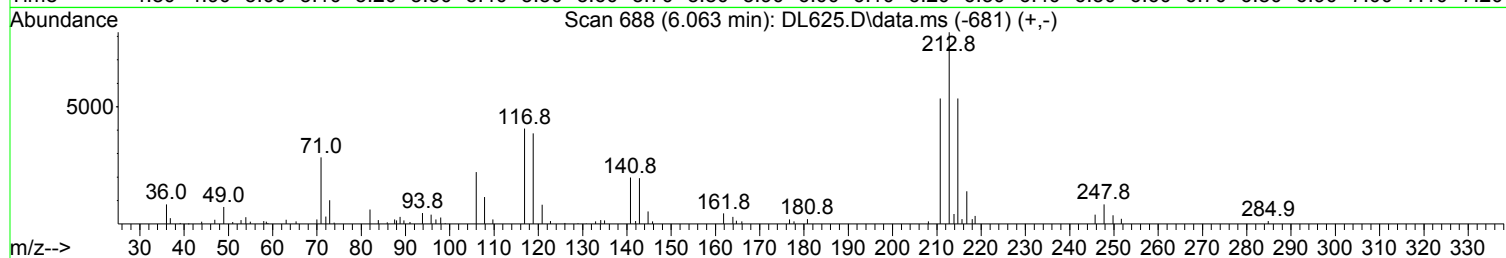
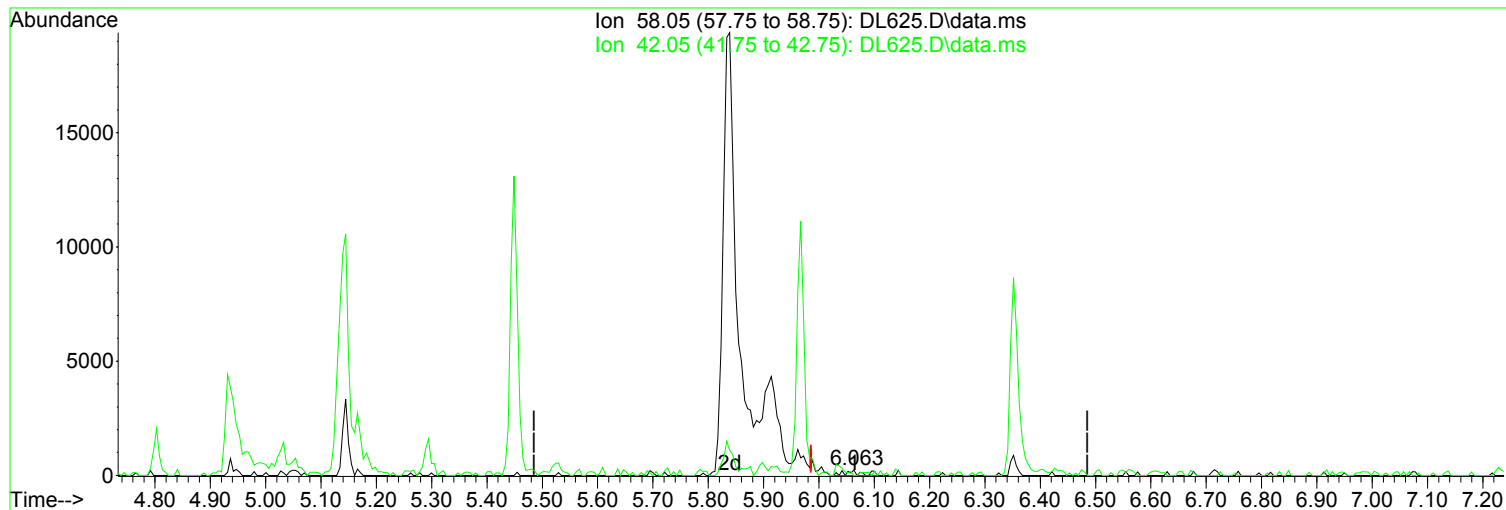
Peak not found.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	5.66
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL625.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.063min (+ 0.077) 0.05 ppm

Before

response

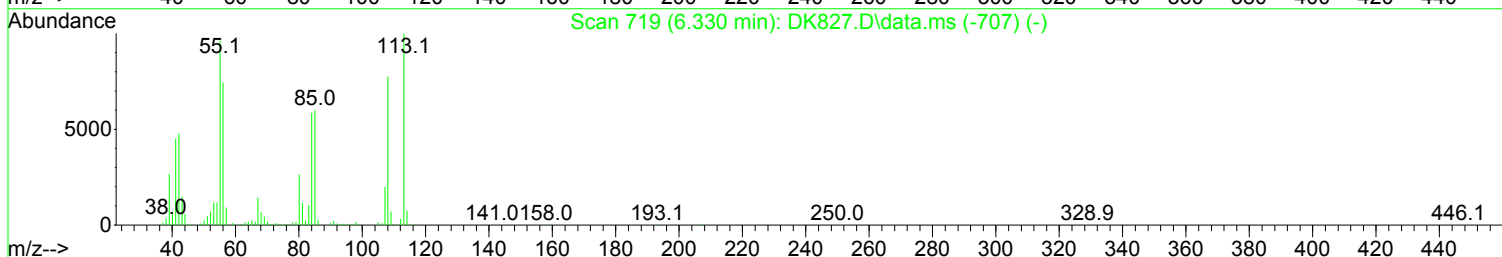
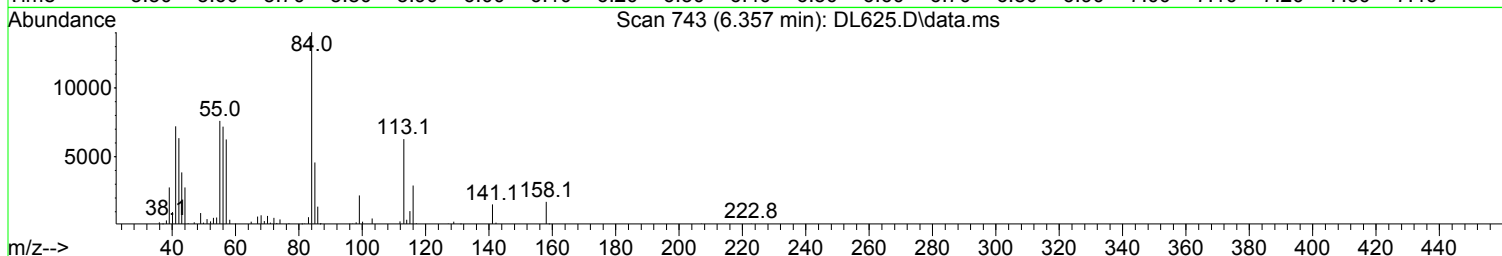
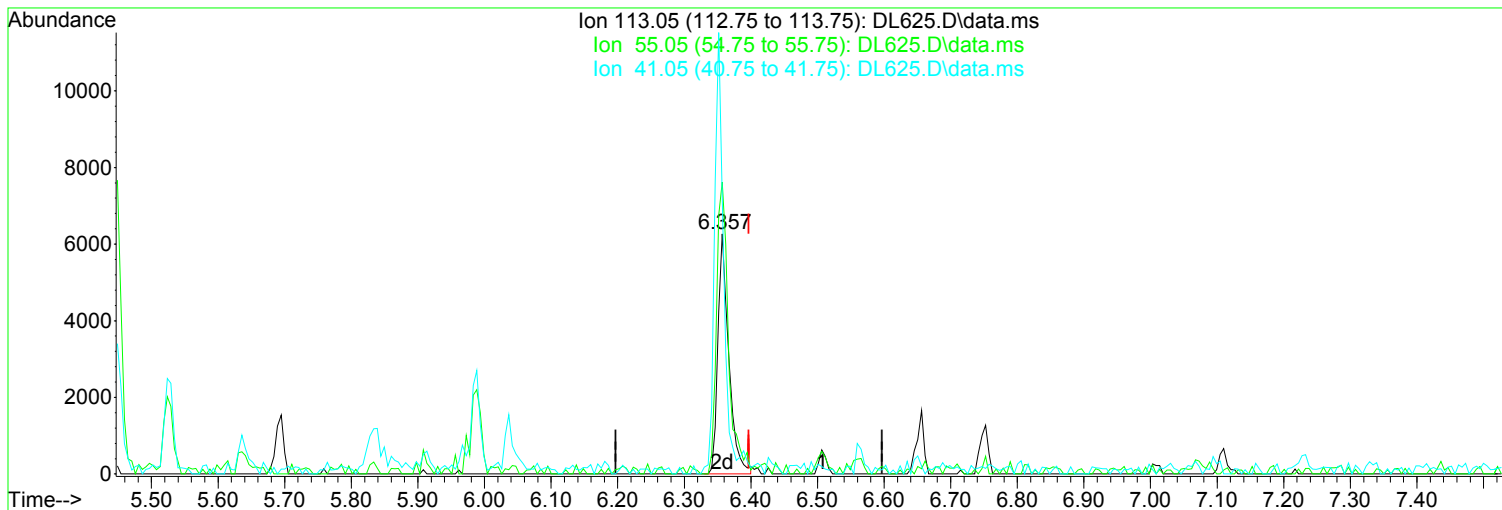
464

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL625.D  
Acq On : 23 Jan 2018 12:48 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(52) Caprolactam (TM)

Manual Integration:

6.357min (-0.040) 4.82 ppm m

After

response 7213

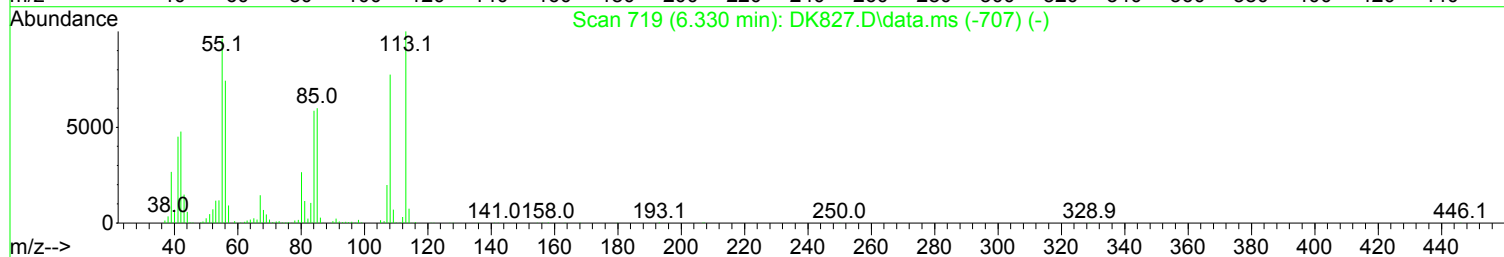
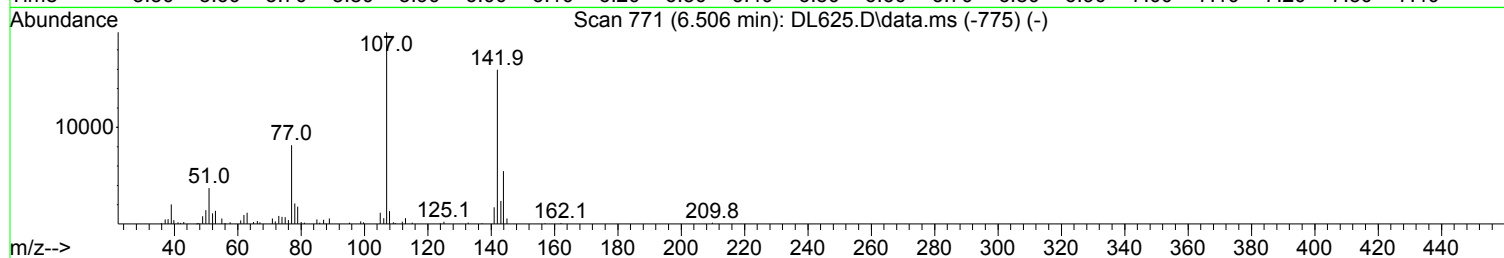
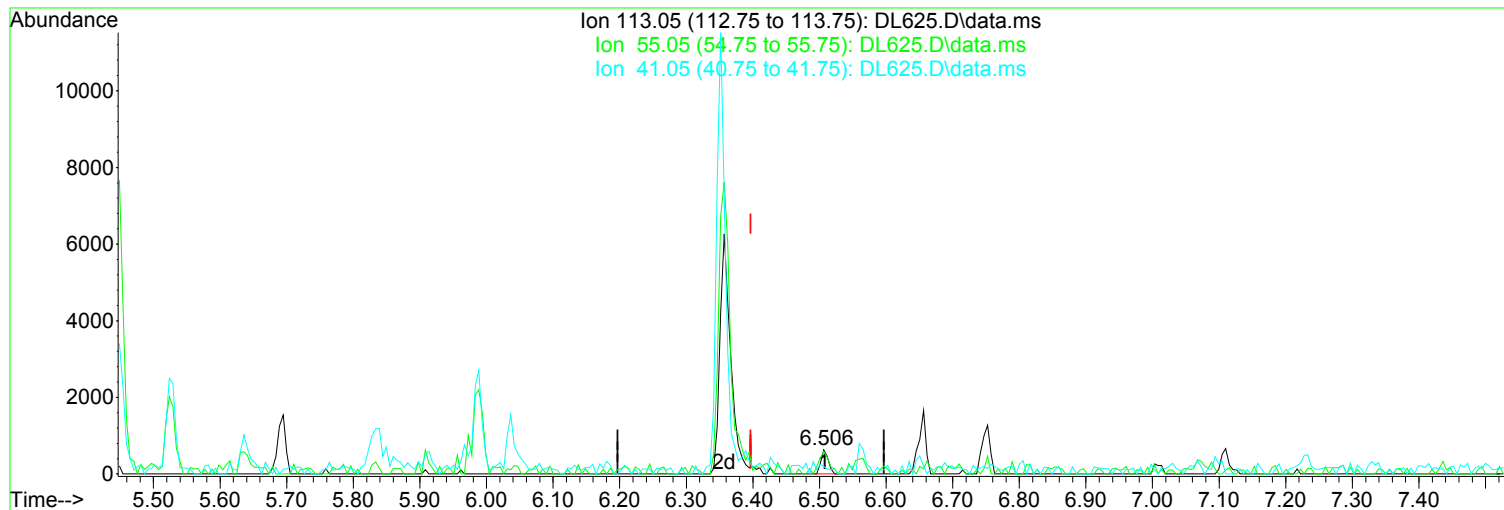
Peak not found.

Ion	Exp%	Act%
113.05	100.00	100.00
55.05	99.50	121.52
41.05	43.30	115.22#
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL625.D\data.ms

(52) Caprolactam (TM)

Manual Integration:

6.506min (+ 0.110) 0.32 ppm

Before

response 485

Ion	Exp%	Act%
113.05	100.00	100.00
55.05	99.50	93.38
41.05	43.30	30.91
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
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Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.803	152	155153	40.00	ppm	0.00	
33) d8-Naphthalene	5.967	136	599680	40.00	ppm	0.00	
57) d10-Acenaphthene	7.676	164	282661	40.00	ppm	0.00	
91) d10-Phenanthrene	9.145	188	469484	40.00	ppm	0.00	
117) d12-Chrysene	12.430	240	438652	40.00	ppm	-0.01	
135) d12-Perylene	15.378	264	474864	40.00	ppm	0.00	
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.734	112	24964	4.61	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	2.31%#	
12) SURR2,PHENOL-D6	4.471	99	30300	4.68	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	2.34%#	
34) SURR4,NITROBENZENE-D5	5.294	82	21228	3.92	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	3.92%#	
63) SURR5,2-FLUOROBIPHENYL	7.008	172	51646	4.88	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	4.88%#	
88) SURR3,2,4,6-TRIBROMOPH...	8.456	330	6647	3.07	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	1.53%#	
124) SURR6,TERPHENYL-D14	10.838	244	47009	4.89	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	4.89%#	
Target Compounds							
							Qvalue
2) Pyridine	2.773	79	24873	4.647	ppm		89
3) N-Nitrosodimethylamine	2.730	74	10093	3.713	ppm		76
4) 2-Picoline	3.312	93	26085	4.553	ppm		98
5) N-Nitrosomethylamine	3.382	42	9189	4.380	ppm		82
6) Methyl Methansulfonate	3.606	80	10612	3.885	ppm		94
8) N-Nitrosodiethylamine	3.911	102	13067	4.401	ppm		98
9) Ethyl Mathanesulfonate	4.140	79	16635	4.453	ppm		98
10) Benzaldehyde	4.434	106	33553	9.484	ppm		97
11) Aniline	4.520	93	43407	4.660	ppm		82
13) Phenol	4.482	94	28933	4.569	ppm		94
14) bis(2-Clethyl)Ether	4.562	93	22491	4.773	ppm		96
15) Pentachloroethane	4.562	117	8662	4.658	ppm		89
16) 2-Chlorophenol	4.626	128	24629	4.734	ppm		90
17) 1,3-Diclbzene	4.755	146	27483	4.965	ppm		97
18) 1,4-Dichlorobenzene	4.819	146	28410	5.107	ppm		96
19) 1,2-Diclbzene	4.952	146	26133	4.940	ppm		99
20) Benzyl Alcohol	4.915	79	17802	4.438	ppm		91
21) 1-Methyl-2-pyrrolidinone	4.936	99	15683	4.810	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.027	45	21343	4.796	ppm	#	69
23) 2-Methylphenol	5.011	108	21486	4.612	ppm		91
24) 3+4-Methylphenol	5.150	108	24077	4.937	ppm		90
25) Acetophenone	5.150	105	34674	5.227	ppm		96
26) N-Nitroso-Di-n-propyla...	5.144	70	16248	4.795	ppm		83
27) N-Nitrosopyrrolidine	5.134	100	13714	5.270	ppm		81
28) N-Nitrosomorpholine	5.166	56	12723	5.004	ppm		93
29) o-Toluidine	5.182	106	40667	5.275	ppm		99
30) Hexachloroethane	5.257	117	10281	5.126	ppm		93
31) o,o,o-Triethylphosphor...	5.695	198	9553	4.417	ppm		95
32) Alpha-terpinol	5.988	121	8663	5.152	ppm		93
35) Nitrobenzene	5.310	77	21079	3.859	ppm		91
36) N-Nitrosopiperidine	5.449	42	11837	4.463	ppm		93
37) Isophorone	5.524	82	42665	4.593	ppm		96
38) 2-Nitrophenol	5.604	139	9162	3.270	ppm		95

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.636	107	23268	4.563	ppm	98
40) bis(-2-Chloroethoxy)Me...	5.721	93	26648	4.771	ppm	98
42) 2,4-Dichlorophenol	5.833	162	18142	4.521	ppm	87
43) a,a-Dimethylphenethyla...	5.839	58	44184m	4.336	ppm	
44) 1,2,4-Trichlorobenzene	5.908	180	20099	4.505	ppm	98
45) Naphthalene	5.988	128	76678	5.065	ppm	97
46) 4-Chloroaniline	6.036	127	34501	4.660	ppm	96
47) 2,6-Dichlorophenol	6.047	162	19657	4.520	ppm	96
48) Hexachlorobutadiene	6.101	225	10631	4.340	ppm	92
49) Hexachloropropene	6.068	213	10959	3.745	ppm	100
50) 4-Chloro-3-methylphenol	6.506	107	18040	4.631	ppm	92
51) N-N-di-n-butylamine	6.352	84	18435	5.584	ppm	96
52) Caprolactam	6.357	113	7213m	4.819	ppm	
54) Safrole	6.565	162	19265	4.496	ppm	96
55) 2-Methylnaphthalene	6.656	142	50329	5.211	ppm	98
56) 1-Methylnaphthalene	6.747	142	47787	5.290	ppm	94
58) Hexachlorocyclopentadiene	6.800	237	8895	3.363	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.811	216	18944	4.374	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.094	216	18663	4.559	ppm	93
61) 2,4,6-Trichlorophenol	6.928	196	10153	3.748	ppm	91
62) 2,4,5-Trichlorophenol	6.971	196	11964	4.257	ppm	89
64) Isosafrole	7.067	104	7228	4.053	ppm	# 25
65) 1,1'-Biphenyl	7.105	154	58418	4.984	ppm	96
66) 2-Chloronaphthalene	7.126	162	41794	4.828	ppm	94
67) 2-Nitroaniline	7.233	65	7365	3.287	ppm	94
68) 1,4-Naphthoquinone	7.302	158	13704	4.985	ppm	82
69) m-Dinitrobenzene	7.436	168	3907	2.437	ppm	85
70) Acenaphthylene	7.537	152	71309	5.181	ppm	95
71) Dimethyl phthalate	7.404	163	48289	5.057	ppm	97
72) 2,6-Dinitrotoluene	7.463	165	7196	3.365	ppm	91
73) Acenaphthene	7.708	153	47524	5.054	ppm	97
74) 3-Nitroaniline	7.633	138	8629	3.346	ppm	99
75) 2,4-Dinitrophenol	7.740	184	600	5.629	ppm	95
76) Dibenzofuran	7.874	168	60068	4.970	ppm	95
77) 2,4-Dinitrotoluene	7.863	165	7922	2.586	ppm	83
78) 4-Nitrophenol	7.820	65	4083	2.326	ppm	88
79) Pentachlorobenzene	7.831	250	17257	4.248	ppm	94
80) 1-Naphthylamine	7.954	143	31539	5.094	ppm	98
81) 2-Naphthylamine	8.034	143	43819	5.261	ppm	100
82) 2,3,4,6-Tetrachlorophenol	8.002	232	7035	3.232	ppm	87
83) Fluorene	8.216	166	51776	5.188	ppm	100
84) 4-Chlorophenyl-phenyle...	8.210	204	20984	4.892	ppm	98
85) Diethylphthalate	8.098	149	47846	4.743	ppm	98
86) 4-Nitroaniline	8.232	138	10421	3.693	ppm	92
87) 5-Nitro-o-toluidine	8.226	152	9148	3.091	ppm	94
89) Sulfotepp	8.483	322	7423	3.321	ppm	81
90) Octachlorocyclopentene	8.461	307	6145	3.130	ppm	97
92) Thionazin	8.173	107	8001	5.612	ppm	95
93) 4,6-Dinitro-2-methylph...	8.264	198	2293	1.376	ppm	89
94) Diphenylamine	8.328	169	76435	11.187	ppm	99
95) 1,2 Diphenylhydrazine	8.365	77	45741	5.548	ppm	94
96) N-Nitrosodiphenylamine	8.328	169	76435	11.187	ppm	99
97) 1,3,5-Trinirobenzene	8.589	74	1839	1.282	ppm	77
98) Diallate	8.611	86	17488	5.244	ppm	93
99) Phorate	8.622	121	8191	5.151	ppm	99
100) Phenacetin	8.632	108	21266	4.533	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL625.D  
 Acq On : 23 Jan 2018 12:48 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 24 06:46:45 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 4-Bromophenyl-phenylether	8.696	248	11831	4.714	ppm	96
102) Hexachlorobenzene	8.755	284	14564	4.435	ppm	95
103) Dimethoate	8.787	87	14925	5.101	ppm	89
104) Atrazine	8.857	215	6349	4.489	ppm	91
105) Pentachlorophenol	8.953	266	1374	0.696	ppm	# 72
106) 4-Aminobiphenyl	8.953	169	40469	4.448	ppm	98
107) Pentachloronitrobenzene	8.958	237	2975	2.957	ppm	96
108) Pronamide	9.006	173	16919	4.462	ppm	97
109) Dinoseb	9.129	211	2572	1.066	ppm	85
110) Disulfoton	9.140	88	17787	5.545	ppm	86
111) Phenanthrene	9.166	178	64444	5.196	ppm	97
112) Anthracene	9.214	178	61811	4.990	ppm	99
113) Carbazole	9.375	167	60845	4.810	ppm	97
114) Di-n-butylphthalate	9.711	149	70155	4.509	ppm	97
115) 4-Nitroquinoline-1-oxide	9.935	190	2060	1.851	ppm	93
116) Fluoranthene	10.384	202	59362	4.693	ppm	99
118) Methyl Parathion	9.508	109	5170	2.378	ppm	97
119) Ethyl Parathion	9.893	97	3552	2.199	ppm	89
120) Methapyrilene	10.010	58	12861	4.353	ppm	95
121) Isodrin	10.218	193	5926	5.144	ppm	87
122) Benzidine	10.544	184	43205	5.239	ppm	99
123) Pyrene	10.651	202	63076	5.316	ppm	99
125) Aramite	10.913	185	7813m	5.603	ppm	
126) p-(Dimethylamino)azobe...	11.025	120	19049	5.204	ppm	97
127) Chlorobenzilate	11.084	139	18084	5.080	ppm	91
128) Butyl benzyl phthalate	11.527	149	34787	5.228	ppm	90
129) 3,3-Dimethylbenzidine	11.506	212	43048	4.604	ppm	98
130) 2-Acetylaminofluorene	11.890	181	18727	3.757	ppm	97
131) 3,3'-Dichlorobenzidine	12.387	252	27399	4.376	ppm	97
132) Benzo(a)anthracene	12.408	228	61301	4.921	ppm	99
133) Chrysene	12.478	228	59068	5.113	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.515	149	43293	4.696	ppm	95
136) Di-n-octyl phthalate	13.850	149	65157	3.957	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.539	256	27815	4.125	ppm	97
138) Benzo(b)Fluoranthene	14.539	252	59618	4.295	ppm	93
139) Benzo(k)fluoranthene	14.598	252	57322	4.319	ppm	97
140) Benzo(a)pyrene	15.244	252	52012	4.389	ppm	98
141) 3-Methylcholanthrene	16.014	268	28980	4.116	ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.306	276	49754	4.592	ppm	98
143) Dibenz(a,h)anthracene	17.365	278	54670	4.456	ppm	96
144) Benzo(g,h,i)perylene	17.771	276	53661	3.343	ppm	95

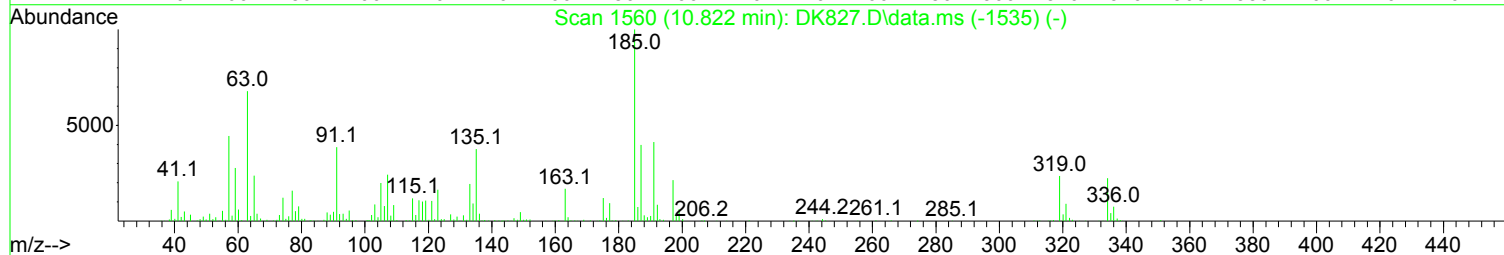
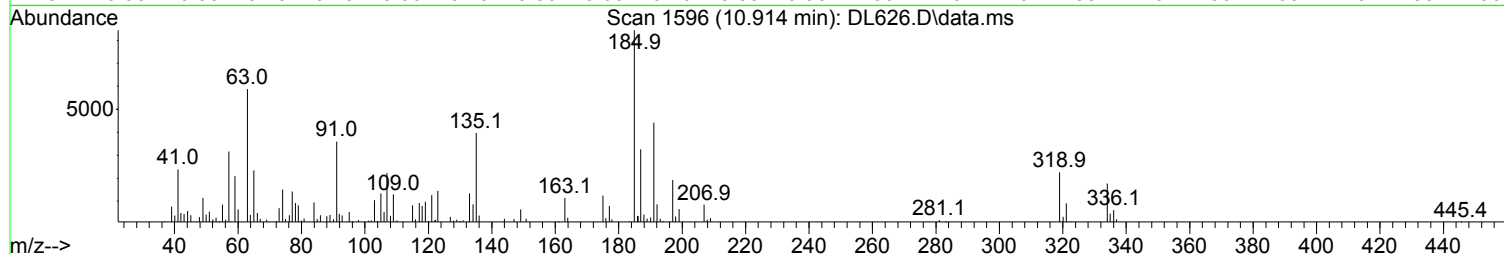
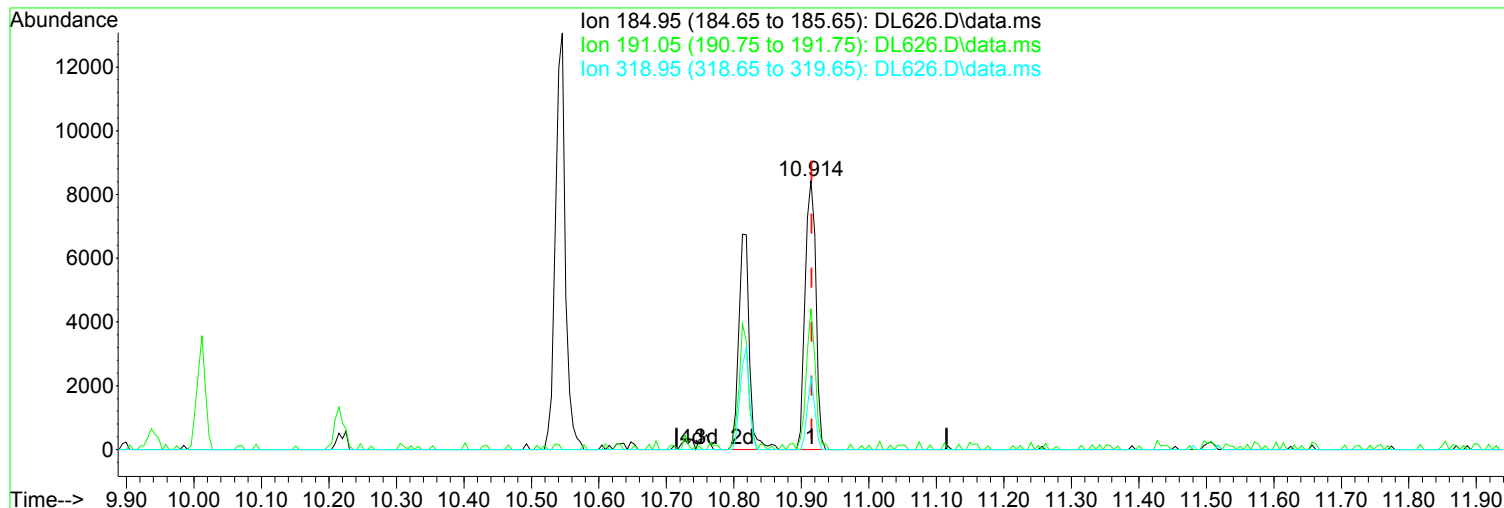
(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL626.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.914min (-0.001) 10.55 ppm m

After

response 16723

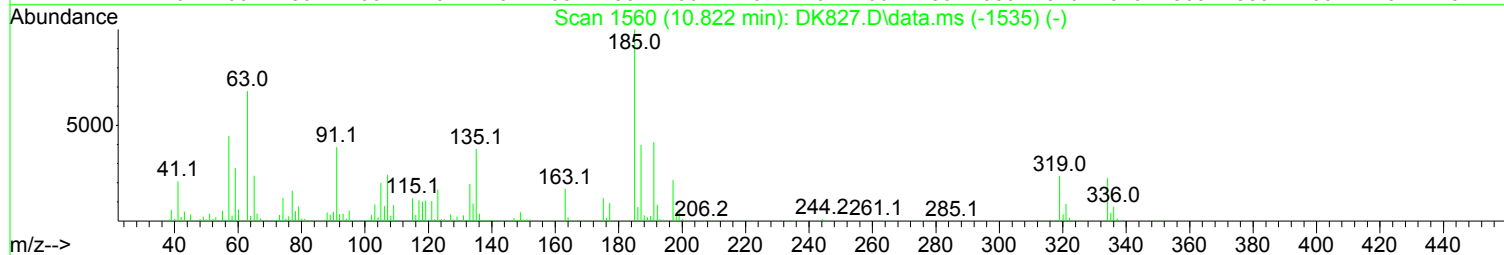
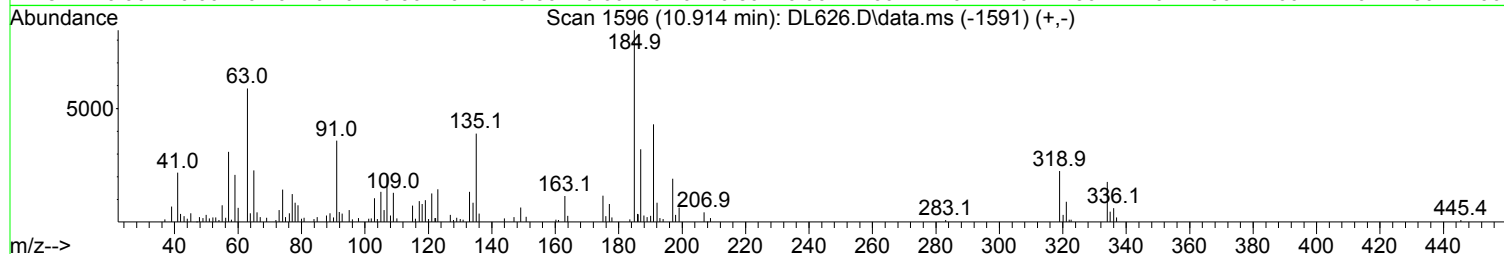
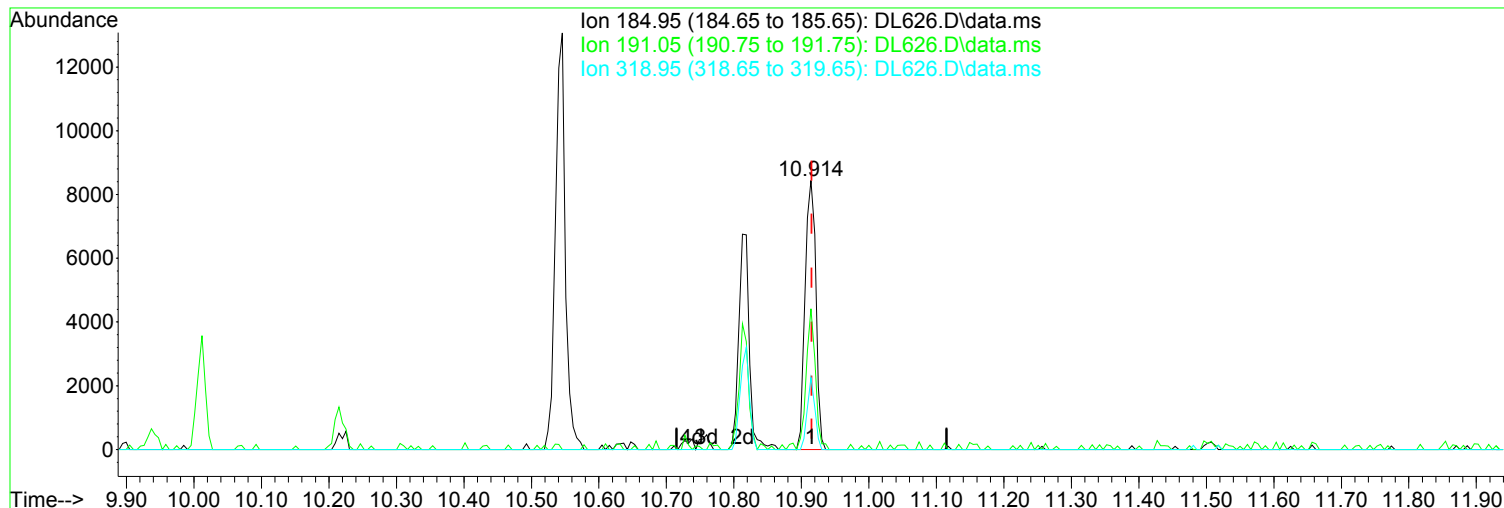
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	52.30
318.95	19.40	26.77
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL626.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.914min (-0.001) 5.90 ppm

Before

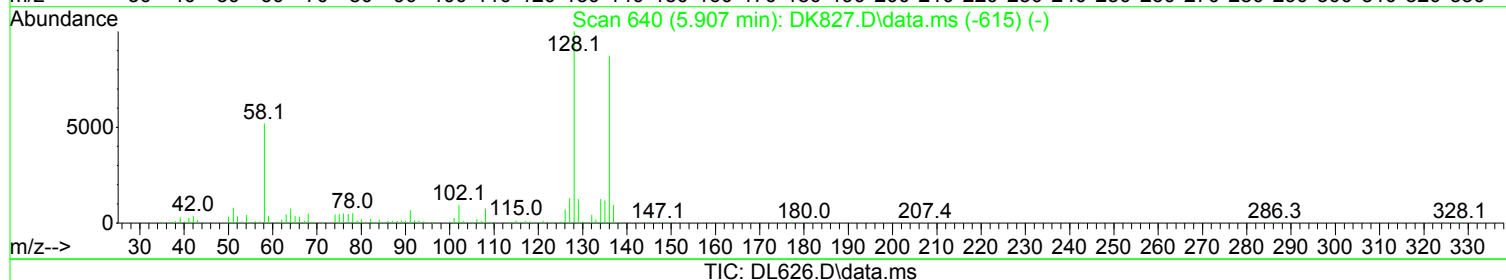
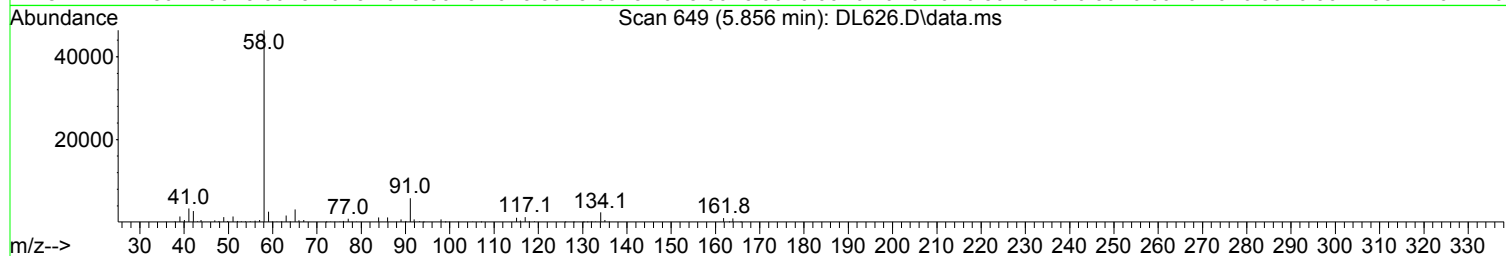
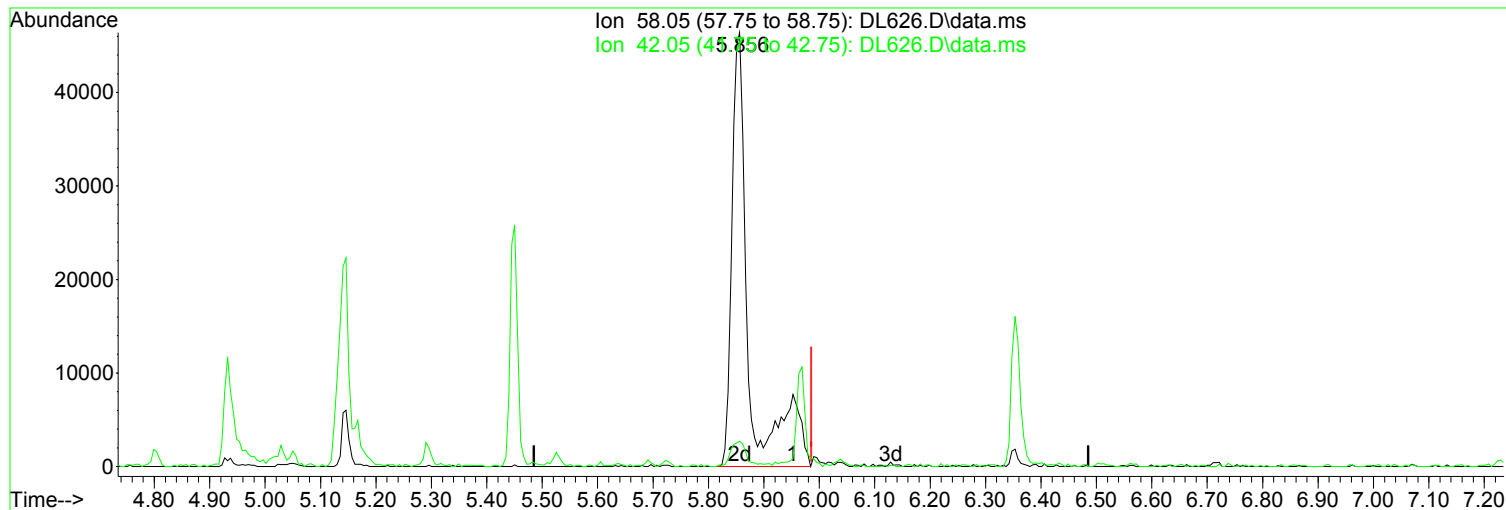
response 9347

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	51.10
318.95	19.40	26.77
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.856min (-0.129) 9.19 ppm m

After

response 98332

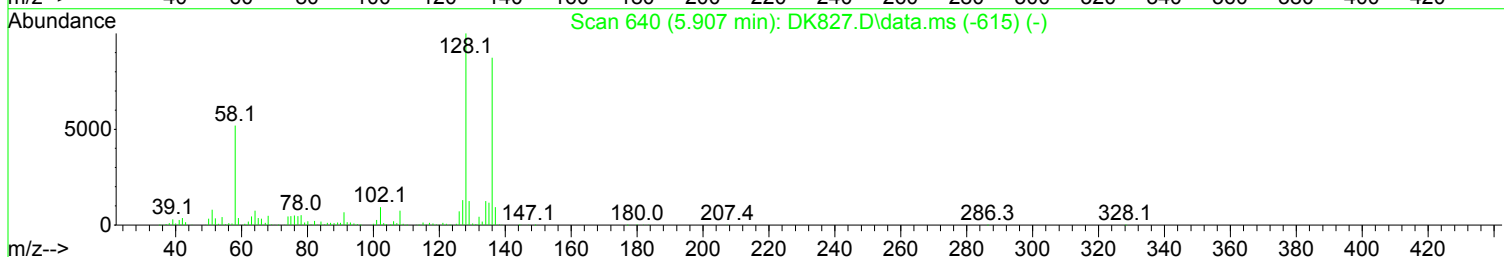
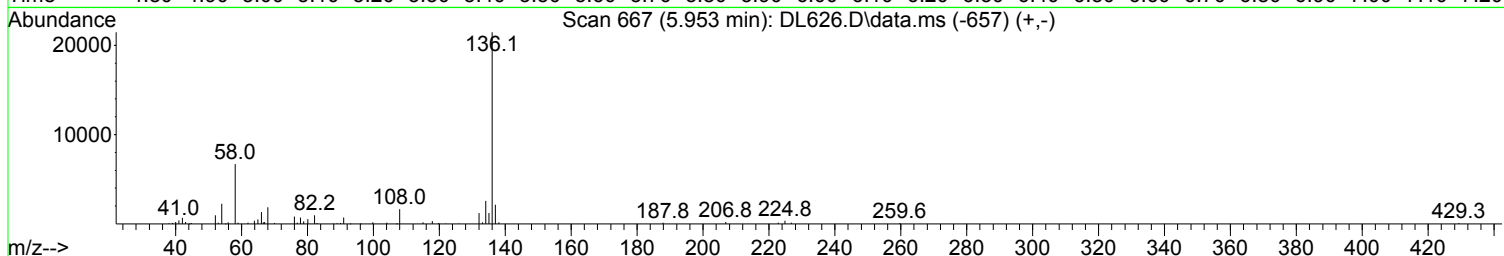
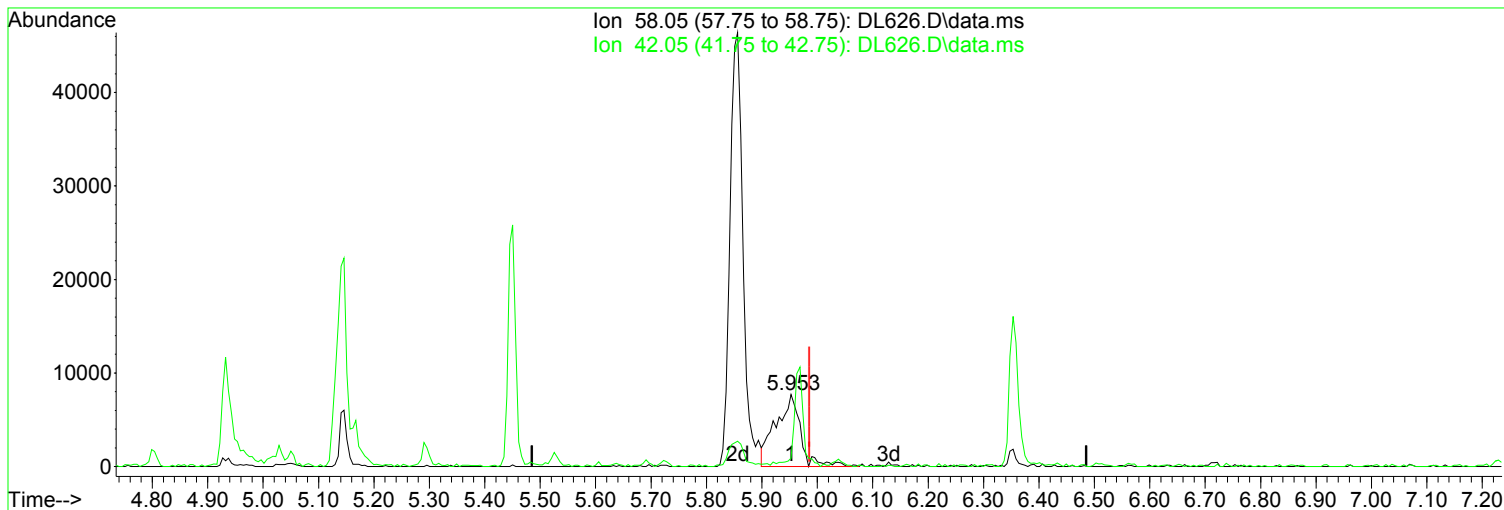
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	5.86
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL626.D  
Acq On : 23 Jan 2018 1:17 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL626.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.953min (-0.033) 2.24 ppm

Before

response 23954

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	9.98
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL626.D  
 Acq On : 23 Jan 2018 1:17 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.804	152	160682	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	629605	40.00	ppm	0.00
57) d10-Acenaphthene	7.678	164	296294	40.00	ppm	0.00
91) d10-Phenanthrene	9.141	188	470099	40.00	ppm	0.00
117) d12-Chrysene	12.431	240	498697	40.00	ppm	-0.01
135) d12-Perylene	15.380	264	477975	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.736	112	51883	9.26	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	4.63%#
12) SURR2,PHENOL-D6	4.473	99	65945	9.83	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	4.92%#
34) SURR4,NITROBENZENE-D5	5.296	82	43113	7.59	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	7.59%#
63) SURR5,2-FLUOROBIPHENYL	7.010	172	104836	9.46	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	9.46%#
88) SURR3,2,4,6-TRIBROMOPH...	8.452	330	13858	6.10	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	3.05%#
124) SURR6,TERPHENYL-D14	10.840	244	104326	9.54	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	9.54%#

Target Compounds						Qvalue
2) Pyridine	2.769	79	53143	9.587	ppm	98
3) N-Nitrosodimethylamine	2.732	74	24206	8.599	ppm	94
4) 2-Picoline	3.309	93	55039	9.276	ppm	99
5) N-Nitrosomethylamine	3.378	42	19412	8.935	ppm	88
6) Methyl Methansulfonate	3.602	80	21912	7.745	ppm	96
8) N-Nitrosodiethylamine	3.912	102	27125	8.822	ppm	96
9) Ethyl Mathanesulfonate	4.142	79	35524	9.183	ppm	96
10) Benzaldehyde	4.436	106	69145	18.872	ppm	95
11) Aniline	4.516	93	94267	9.772	ppm	82
13) Phenol	4.484	94	62691	9.558	ppm	99
14) bis(2-Clethyl)Ether	4.559	93	46606	9.550	ppm	93
15) Pentachloroethane	4.564	117	18734	9.727	ppm	95
16) 2-Chlorophenol	4.623	128	52515	9.747	ppm	97
17) 1,3-Diclbzene	4.756	146	57992	10.116	ppm	98
18) 1,4-Dichlorobenzene	4.820	146	56592	9.823	ppm	97
19) 1,2-Diclbzene	4.954	146	55695	10.166	ppm	98
20) Benzyl Alcohol	4.916	79	37499	9.027	ppm	94
21) 1-Methyl-2-pyrrolidinone	4.932	99	33627	9.958	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.029	45	43352	9.407	ppm	# 67
23) 2-Methylphenol	5.013	108	48318	10.015	ppm	95
24) 3+4-Methylphenol	5.146	108	49895	9.878	ppm	87
25) Acetophenone	5.151	105	70470	10.257	ppm	97
26) N-Nitroso-Di-n-propyla...	5.146	70	36042	10.270	ppm	82
27) N-Nitrosopyrrolidine	5.135	100	26965	10.006	ppm	82
28) N-Nitrosomorpholine	5.167	56	26332	10.000	ppm	95
29) o-Toluidine	5.183	106	85695	10.734	ppm	96
30) Hexachloroethane	5.258	117	21432	10.317	ppm	90
31) o,o,o-Triethylphosphor...	5.696	198	21989	9.817	ppm	94
32) Alpha-terpinol	5.990	121	18737	10.760	ppm	87
35) Nitrobenzene	5.312	77	44651	7.787	ppm	100
36) N-Nitrosopiperidine	5.450	42	24284	8.720	ppm	97
37) Isophorone	5.525	82	90550	9.285	ppm	98
38) 2-Nitrophenol	5.605	139	19996	6.797	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL626.D  
 Acq On : 23 Jan 2018 1:17 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.637	107	50189	9.375	ppm	97
40) bis(-2-Chloroethoxy)Me...	5.723	93	56457	9.627	ppm	97
41) Benzoic Acid	5.696	105	9088	2.300	ppm	92
42) 2,4-Dichlorophenol	5.835	162	37532	8.909	ppm	95
43) a,a-Dimethylphenethyla...	5.856	58	98332m	9.191	ppm	
44) 1,2,4-Trichlorobenzene	5.910	180	42323	9.035	ppm	99
45) Naphthalene	5.990	128	157299	9.896	ppm	100
46) 4-Chloroaniline	6.038	127	72846	9.371	ppm	98
47) 2,6-Dichlorophenol	6.043	162	42109	9.222	ppm	95
48) Hexachlorobutadiene	6.097	225	20872	8.116	ppm	93
49) Hexachloropropene	6.070	213	23001	7.487	ppm	96
50) 4-Chloro-3-methylphenol	6.508	107	39284	9.606	ppm	99
51) N-N-di-n-butylamine	6.353	84	39792	11.481	ppm	94
52) Caprolactam	6.358	113	17009	10.823	ppm	# 69
53) p-Phenylenediamine	6.385	80	2363	10.934	ppm	# 60
54) Safrole	6.567	162	40727	9.052	ppm	96
55) 2-Methylnaphthalene	6.652	142	98397	9.703	ppm	98
56) 1-Methylnaphthalene	6.748	142	91808	9.680	ppm	99
58) Hexachlorocyclopentadiene	6.802	237	20262	7.309	ppm	96
59) 1,2,4,5-Tetrachloroben...	6.812	216	38999	8.590	ppm	94
60) 1,2,3,4-Tetrachloroben...	7.090	216	38344	8.935	ppm	99
61) 2,4,6-Trichlorophenol	6.930	196	23854	8.401	ppm	99
62) 2,4,5-Trichlorophenol	6.973	196	23730	8.056	ppm	92
64) Isosafrole	7.069	104	16730	8.950	ppm	# 30
65) 1,1'-Biphenyl	7.106	154	120297	9.792	ppm	97
66) 2-Chloronaphthalene	7.128	162	89757	9.891	ppm	96
67) 2-Nitroaniline	7.229	65	16559	7.051	ppm	96
68) 1,4-Naphthoquinone	7.304	158	31355	10.880	ppm	81
69) m-Dinitrobenzene	7.437	168	9145	5.442	ppm	93
70) Acenaphthylene	7.539	152	145129	10.059	ppm	98
71) Dimethyl phthalate	7.405	163	103593	10.349	ppm	98
72) 2,6-Dinitrotoluene	7.464	165	16662	7.433	ppm	90
73) Acenaphthene	7.710	153	100715	10.219	ppm	99
74) 3-Nitroaniline	7.635	138	20953	7.751	ppm	92
75) 2,4-Dinitrophenol	7.742	184	1674	6.548	ppm	96
76) Dibenzofuran	7.875	168	125840	9.933	ppm	96
77) 2,4-Dinitrotoluene	7.859	165	16882	5.257	ppm	96
78) 4-Nitrophenol	7.817	65	10327	5.613	ppm	95
79) Pentachlorobenzene	7.833	250	35233	8.274	ppm	97
80) 1-Naphthylamine	7.955	143	67182	10.352	ppm	99
81) 2-Naphthylamine	8.036	143	92509	10.596	ppm	100
82) 2,3,4,6-Tetrachlorophenol	7.998	232	15112	6.623	ppm	94
83) Fluorene	8.217	166	102013	9.752	ppm	94
84) 4-Chlorophenyl-phenyle...	8.212	204	40412	8.987	ppm	94
85) Diethylphthalate	8.100	149	97993	9.267	ppm	98
86) 4-Nitroaniline	8.239	138	23389	7.906	ppm	94
87) 5-Nitro-o-toluidine	8.228	152	20037	6.458	ppm	94
89) Sulfotep	8.484	322	14999	6.401	ppm	83
90) Octachlorocyclopentene	8.463	307	14060	6.832	ppm	97
92) Thionazin	8.180	107	16823	11.784	ppm	97
93) 4,6-Dinitro-2-methylph...	8.260	198	5345	3.202	ppm	# 57
94) Diphenylamine	8.329	169	160256	23.424	ppm	100
95) 1,2 Diphenylhydrazine	8.367	77	98151	11.890	ppm	95
96) N-Nitrosodiphenylamine	8.329	169	160256	23.424	ppm	100
97) 1,3,5-Trinitrobenzene	8.591	74	5196	3.616	ppm	91
98) Diallate	8.612	86	38017	11.385	ppm	87

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL626.D  
 Acq On : 23 Jan 2018 1:17 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 24 06:46:52 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.623	121	17710	11.122	ppm	98
100) Phenacetin	8.634	108	48768	10.382	ppm	97
101) 4-Bromophenyl-phenylether	8.698	248	25163	10.014	ppm	97
102) Hexachlorobenzene	8.751	284	31000	9.428	ppm	93
103) Dimethoate	8.789	87	32891	11.228	ppm	91
104) Atrazine	8.858	215	14323	10.113	ppm	81
105) Pentachlorophenol	8.954	266	4738	2.396	ppm	81
106) 4-Aminobiphenyl	8.954	169	90703	9.955	ppm	97
107) Pentachloronitrobenzene	8.960	237	6462	6.414	ppm	94
108) Pronamide	9.008	173	37534	9.885	ppm	99
109) Dinoseb	9.130	211	7674	3.176	ppm	92
110) Disulfoton	9.136	88	31353	9.761	ppm	97
111) Phenanthrene	9.168	178	124719	10.043	ppm	98
112) Anthracene	9.216	178	125345	10.107	ppm	98
113) Carbazole	9.376	167	132350	10.448	ppm	99
114) Di-n-butylphthalate	9.713	149	163075	10.466	ppm	99
115) 4-Nitroquinonline-1-oxide	9.937	190	5146	4.618	ppm	93
116) Fluoranthene	10.386	202	135276	10.680	ppm	99
118) Methyl Parathion	9.510	109	14481	5.858	ppm	94
119) Ethyl Parathion	9.894	97	9382	5.108	ppm	69
120) Methapyrilene	10.012	58	28067	8.356	ppm	94
121) Isodrin	10.220	193	12213	9.325	ppm	95
122) Benzidine	10.541	184	94821	10.113	ppm	98
123) Pyrene	10.653	202	140598	10.422	ppm	96
125) Aramite	10.914	185	16723m	10.548	ppm	
126) p-(Dimethylamino)azobe...	11.027	120	43542	10.463	ppm	99
127) Chlorobenzilate	11.085	139	41065	10.147	ppm	96
128) Butyl benzyl phthalate	11.529	149	76724	10.143	ppm	96
129) 3,3-Dimethylbenzidine	11.502	212	100516	9.456	ppm	99
130) 2-Acetylaminofluorene	11.892	181	46247	8.160	ppm	96
131) 3,3'-Dichlorobenzidine	12.389	252	62008	8.710	ppm	96
132) Benzo(a)anthracene	12.415	228	139750	9.868	ppm	96
133) Chrysene	12.474	228	132505	10.089	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.517	149	101211	9.656	ppm	97
136) Di-n-octyl phthalate	13.847	149	157083	9.477	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.541	256	63270	9.321	ppm	98
138) Benzo(b)Fluoranthene	14.541	252	137864	9.867	ppm	96
139) Benzo(k)fluoranthene	14.600	252	133899	10.023	ppm	99
140) Benzo(a)pyrene	15.241	252	115455	9.680	ppm	98
141) 3-Methylcholanthrene	16.015	268	66327	9.358	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.313	276	111823	10.254	ppm	94
143) Dibenz(a,h)anthracene	17.366	278	120825	9.783	ppm	99
144) Benzo(g,h,i)perylene	17.772	276	117081	9.283	ppm	97

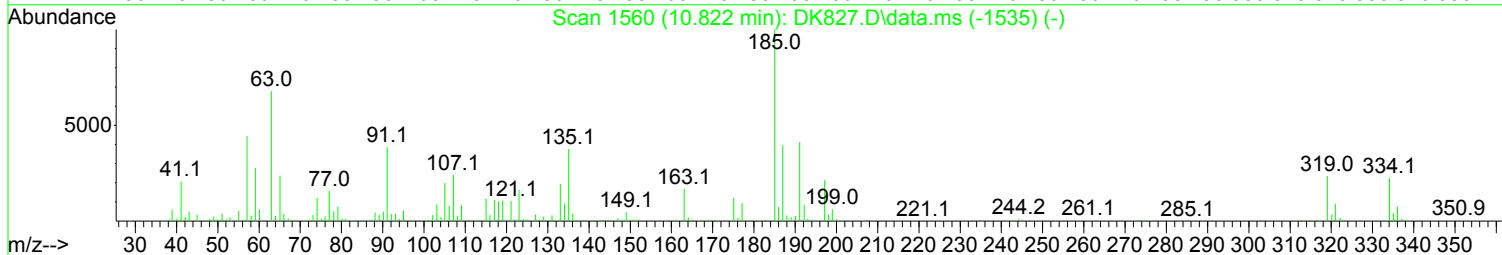
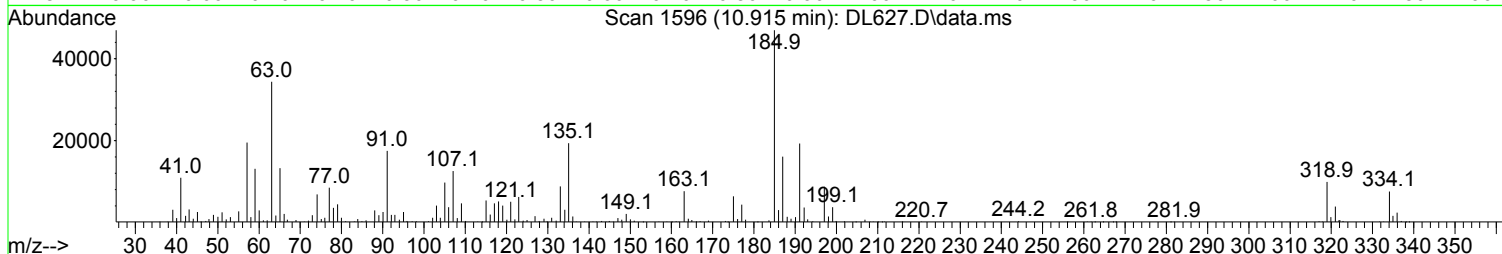
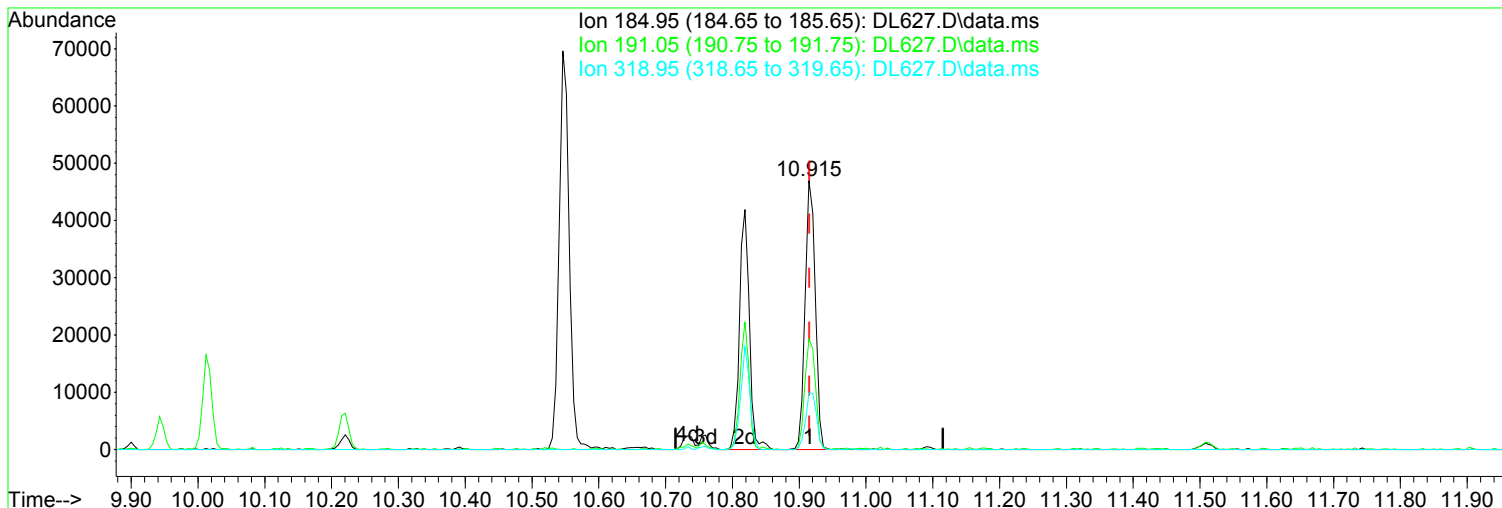
(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL627.D  
Acq On : 23 Jan 2018 1:47 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL627.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min (-0.001) 59.56 ppm m

After

response 92803

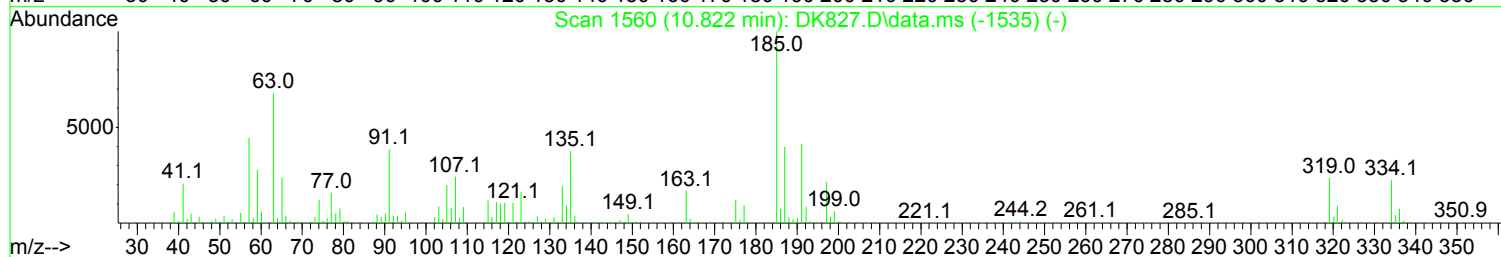
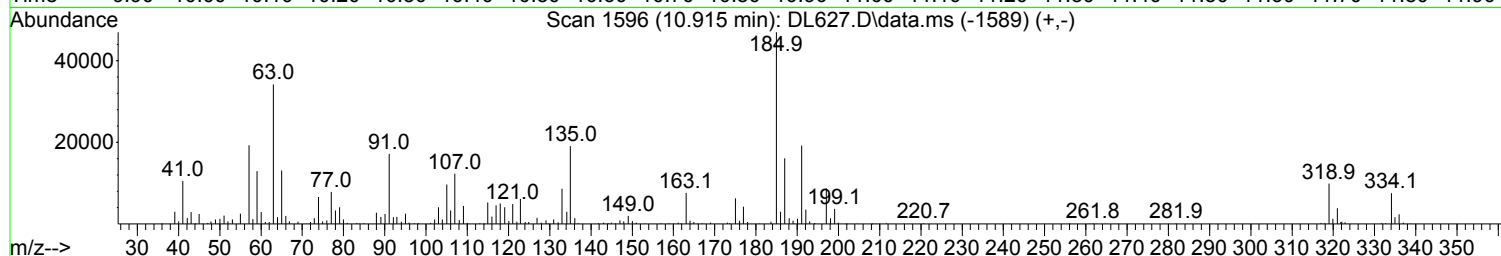
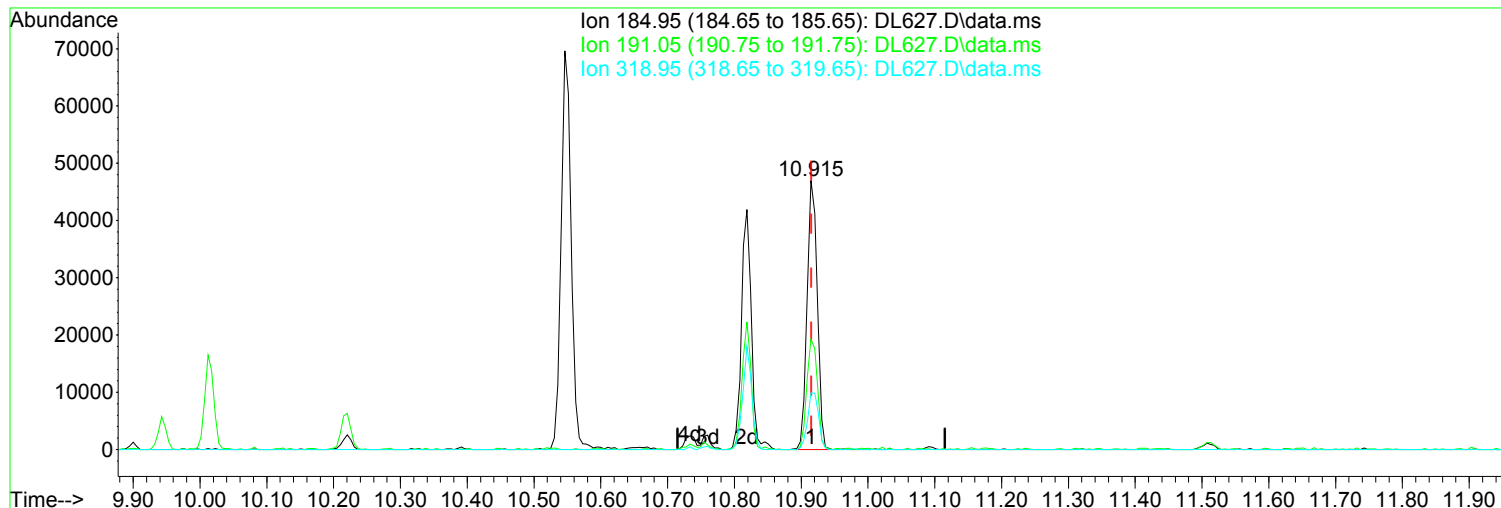
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	41.09
318.95	19.40	21.05
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL627.D  
Acq On : 23 Jan 2018 1:47 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL627.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min (-0.001) 31.65 ppm

Before

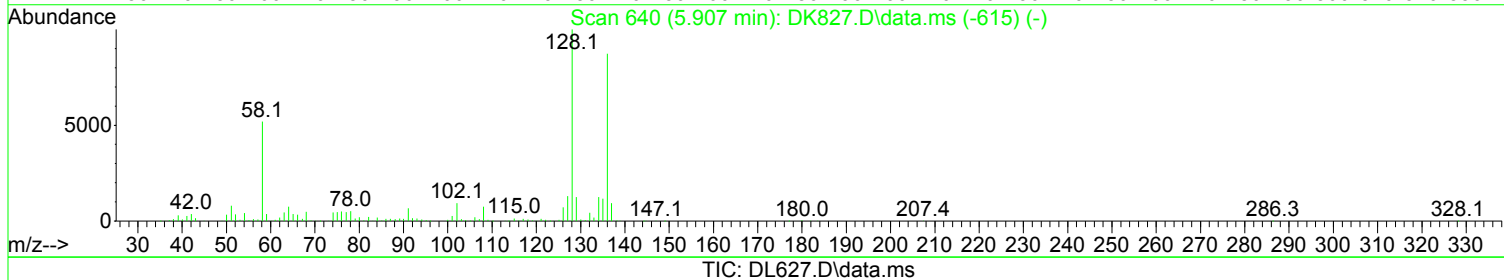
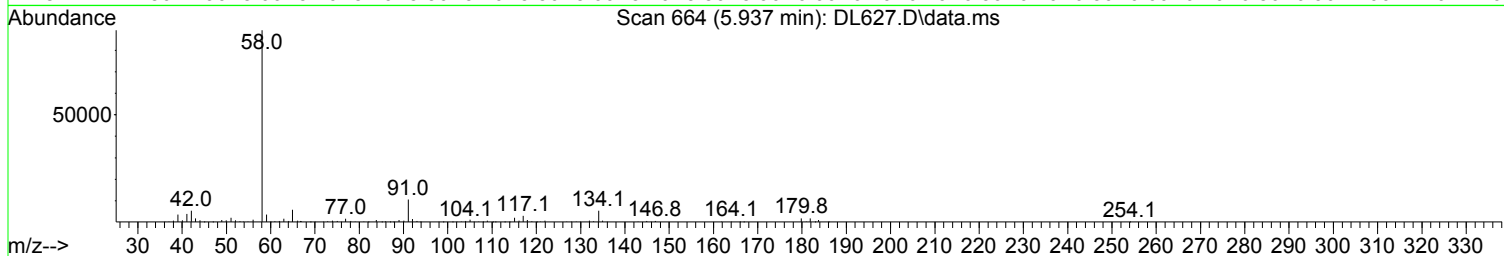
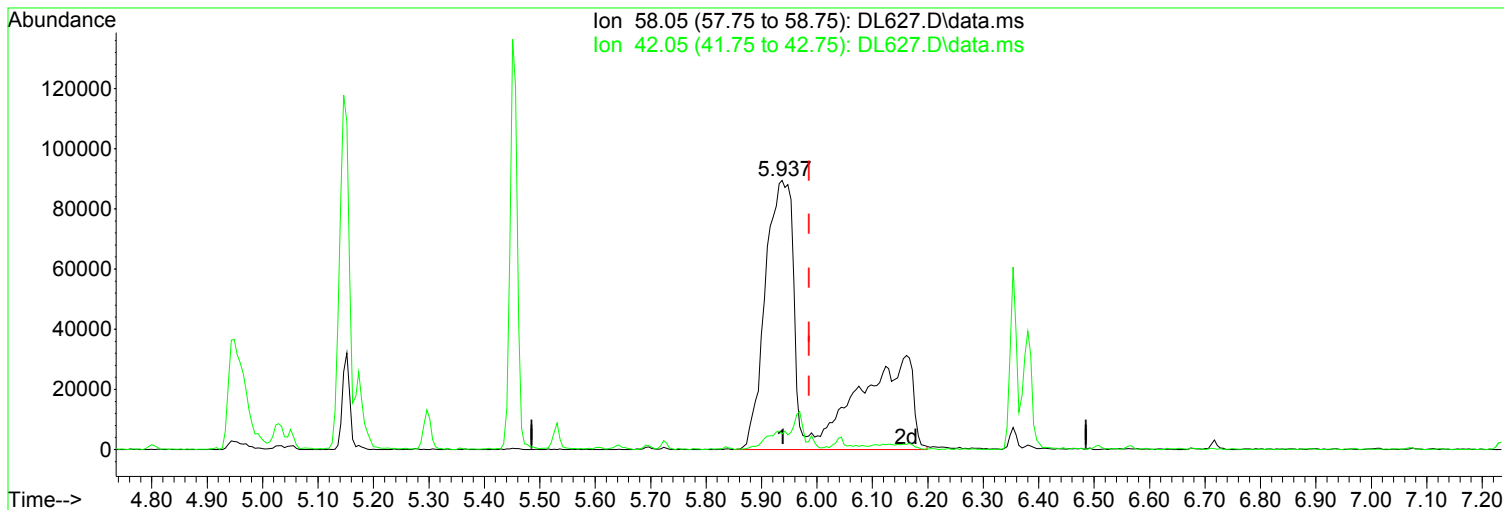
response 49307

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	40.89
318.95	19.40	21.05
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.937min (-0.049) 48.19 ppm m

After

response 523061

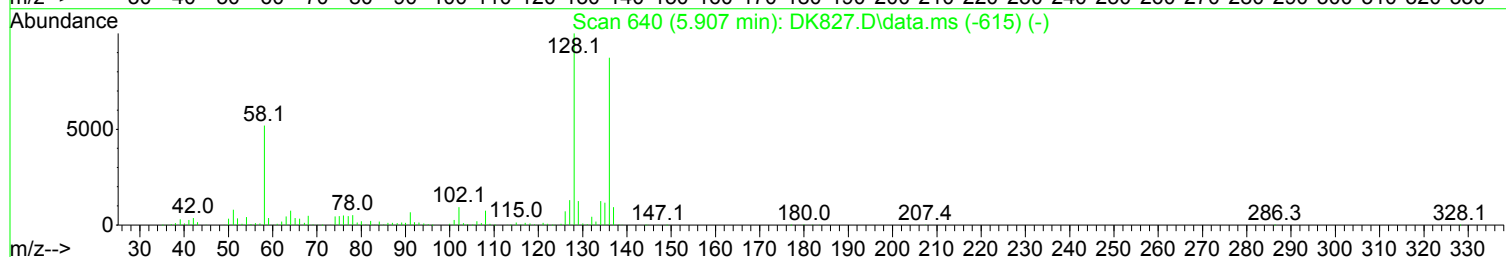
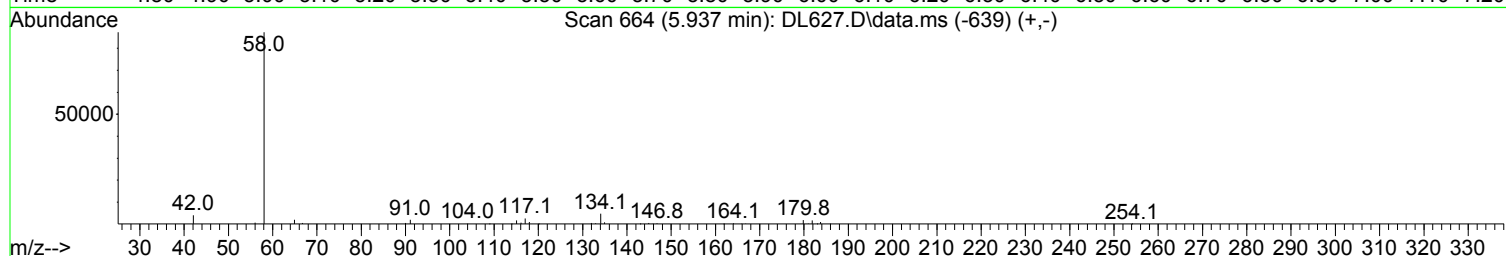
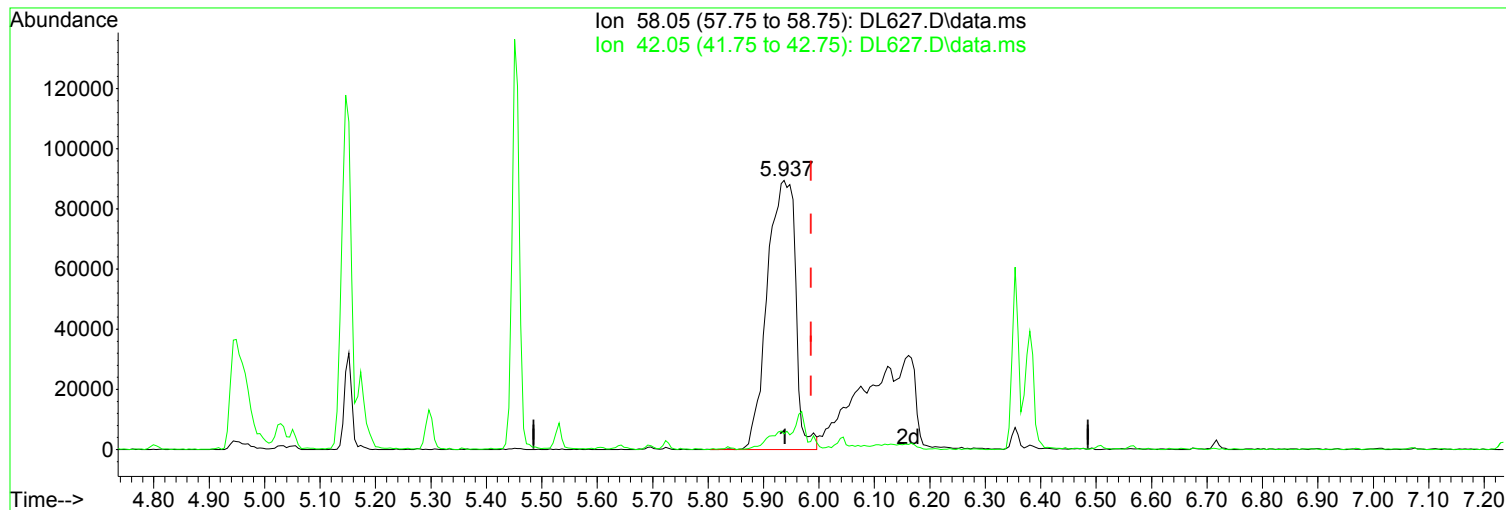
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	5.88
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL627.D  
Acq On : 23 Jan 2018 1:47 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL627.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.937min (-0.049) 29.17 ppm

Before

response 316633

Ion	Exp%	Act%	
58.05	100.00	100.00	01/24/18
42.05	9.80	4.59	
0.00	0.00	0.00	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	167762	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	638777	40.00	ppm	0.00
57) d10-Acenaphthene	7.678	164	298631	40.00	ppm	0.00
91) d10-Phenanthrene	9.147	188	497437	40.00	ppm	0.00
117) d12-Chrysene	12.437	240	490131	40.00	ppm	0.00
135) d12-Perylene	15.385	264	489111	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.736	112	269193	46.01	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	23.00%
12) SURR2,PHENOL-D6	4.473	99	335790	47.93	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	23.97%
34) SURR4,NITROBENZENE-D5	5.296	82	234789	40.74	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	40.74%
63) SURR5,2-FLUOROBIPHENYL	7.010	172	530157	47.46	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	47.46%
88) SURR3,2,4,6-TRIBROMOPH...	8.458	330	72471	31.65	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	15.82%#
124) SURR6,TERPHENYL-D14	10.845	244	525939	48.93	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	48.93%

Target Compounds						Qvalue
2) Pyridine	2.759	79	268167	46.336	ppm	97
3) N-Nitrosodimethylamine	2.727	74	134693	45.832	ppm	98
4) 2-Picoline	3.304	93	283357	45.738	ppm	99
5) N-Nitrosomethylamine	3.379	42	95242	41.987	ppm	98
6) Methyl Methansulfonate	3.603	80	114410	38.732	ppm	99
8) N-Nitrosodiethylamine	3.913	102	150578	46.904	ppm	97
9) Ethyl Mathanesulfonate	4.142	79	183218	45.361	ppm	98
10) Benzaldehyde	4.436	106	179972	47.047	ppm	93
11) Aniline	4.522	93	482105	47.865	ppm	86
13) Phenol	4.484	94	329669	48.143	ppm	98
14) bis(2-Clethyl)Ether	4.564	93	243143	47.722	ppm	99
15) Pentachloroethane	4.564	117	93659	46.575	ppm	96
16) 2-Chlorophenol	4.628	128	271529	48.268	ppm	95
17) 1,3-Diclbzene	4.757	146	292372	48.850	ppm	98
18) 1,4-Dichlorobenzene	4.821	146	298075	49.557	ppm	99
19) 1,2-Diclbzene	4.954	146	282682	49.419	ppm	99
20) Benzyl Alcohol	4.917	79	197148	45.454	ppm	99
21) 1-Methyl-2-pyrrolidinone	4.949	99	181247	51.406	ppm	99
22) 2,2'-oxybis(1-Chloropr...	5.029	45	224779	46.718	ppm	# 81
23) 2-Methylphenol	5.024	108	241525	47.950	ppm	99
24) 3+4-Methylphenol	5.157	108	264841	50.219	ppm	96
25) Acetophenone	5.157	105	353171	49.235	ppm	97
26) N-Nitroso-Di-n-propyla...	5.152	70	177232	48.372	ppm	83
27) N-Nitrosopyrrolidine	5.141	100	144268	51.274	ppm	88
28) N-Nitrosomorpholine	5.173	56	129054	46.941	ppm	99
29) o-Toluidine	5.189	106	422261	50.658	ppm	98
30) Hexachloroethane	5.259	117	109407	50.445	ppm	87
31) o,o,o-Triethylphosphor...	5.697	198	109807	46.957	ppm	92
32) Alpha-terpinol	5.990	121	92409	50.829	ppm	99
35) Nitrobenzene	5.312	77	243402	41.838	ppm	95
36) N-Nitrosopiperidine	5.451	42	125137	44.289	ppm	95
37) Isophorone	5.531	82	472727	47.779	ppm	98
38) 2-Nitrophenol	5.606	139	118860	39.823	ppm	97

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.643	107	250300	46.083	ppm	96
40) bis(-2-Chloroethoxy)Me...	5.723	93	285928	48.057	ppm	99
41) Benzoic Acid	5.723	105	80709	20.130	ppm	99
42) 2,4-Dichlorophenol	5.841	162	199736	46.731	ppm	98
43) a,a-Dimethylphenethyla...	5.937	58	523061m	48.190	ppm	
44) 1,2,4-Trichlorobenzene	5.910	180	215237	45.289	ppm	99
45) Naphthalene	5.990	128	792620	49.149	ppm	99
46) 4-Chloroaniline	6.038	127	373869	47.407	ppm	98
47) 2,6-Dichlorophenol	6.049	162	217858	47.029	ppm	95
48) Hexachlorobutadiene	6.097	225	104310	39.977	ppm	98
49) Hexachloropropene	6.070	213	124734	40.017	ppm	98
50) 4-Chloro-3-methylphenol	6.508	107	202176	48.727	ppm	97
51) N-N-di-n-butylamine	6.354	84	162300	46.154	ppm	96
52) Caprolactam	6.380	113	83165	52.161	ppm	94
53) p-Phenylenediamine	6.391	80	11971	54.597	ppm	82
54) Safrole	6.567	162	214338	46.956	ppm	98
55) 2-Methylnaphthalene	6.658	142	512053	49.770	ppm	99
56) 1-Methylnaphthalene	6.754	142	471490	49.000	ppm	97
58) Hexachlorocyclopentadiene	6.802	237	109935	39.344	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.813	216	199924	43.689	ppm	97
60) 1,2,3,4-Tetrachloroben...	7.096	216	189237	43.751	ppm	98
61) 2,4,6-Trichlorophenol	6.930	196	124024	43.338	ppm	97
62) 2,4,5-Trichlorophenol	6.973	196	133644	45.013	ppm	97
64) Isosafrole	7.069	104	81250	43.124	ppm	# 32
65) 1,1'-Biphenyl	7.112	154	599516	48.418	ppm	97
66) 2-Chloronaphthalene	7.133	162	443310	48.468	ppm	100
67) 2-Nitroaniline	7.235	65	96832	40.908	ppm	95
68) 1,4-Naphthoquinone	7.304	158	155867	53.663	ppm	83
69) m-Dinitrobenzene	7.443	168	54974	32.456	ppm	93
70) Acenaphthylene	7.539	152	731702	50.319	ppm	99
71) Dimethyl phthalate	7.411	163	480962	47.670	ppm	99
72) 2,6-Dinitrotoluene	7.470	165	100960	44.689	ppm	92
73) Acenaphthene	7.710	153	498712	50.204	ppm	97
74) 3-Nitroaniline	7.641	138	112081	41.137	ppm	99
75) 2,4-Dinitrophenol	7.742	184	20475	22.350	ppm	99
76) Dibenzofuran	7.881	168	617835	48.385	ppm	97
77) 2,4-Dinitrotoluene	7.865	165	118682	36.666	ppm	95
78) 4-Nitrophenol	7.822	65	66082	35.638	ppm	93
79) Pentachlorobenzene	7.833	250	177268	41.303	ppm	96
80) 1-Naphthylamine	7.961	143	304452	46.548	ppm	95
81) 2-Naphthylamine	8.036	143	412557	46.885	ppm	97
82) 2,3,4,6-Tetrachlorophenol	8.004	232	81805	35.570	ppm	96
83) Fluorene	8.218	166	510028	48.376	ppm	98
84) 4-Chlorophenyl-phenyle...	8.212	204	204594	45.143	ppm	100
85) Diethylphthalate	8.100	149	475889	44.650	ppm	98
86) 4-Nitroaniline	8.244	138	140845	47.239	ppm	96
87) 5-Nitro-o-toluidine	8.234	152	130462	41.720	ppm	99
89) Sulfotepp	8.485	322	83104	35.188	ppm	94
90) Octachlorocyclopentene	8.469	307	74447	35.893	ppm	97
92) Thionazin	8.185	107	78077	51.684	ppm	90
93) 4,6-Dinitro-2-methylph...	8.266	198	52083	29.487	ppm	90
94) Diphenylamine	8.335	169	716969	99.036	ppm	98
95) 1,2 Diphenylhydrazine	8.372	77	461138	52.791	ppm	100
96) N-Nitrosodiphenylamine	8.335	169	716969	99.036	ppm	98
97) 1,3,5-Trinitrobenzene	8.602	74	36917	24.280	ppm	81
98) Diallate	8.613	86	166365	47.082	ppm	88

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL627.D  
 Acq On : 23 Jan 2018 1:47 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 24 06:46:59 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.623	121	83595	49.611	ppm	89
100) Phenacetin	8.645	108	257613	51.829	ppm	97
101) 4-Bromophenyl-phenylether	8.698	248	110959	41.731	ppm	99
102) Hexachlorobenzene	8.757	284	143616	41.277	ppm	98
103) Dimethoate	8.800	87	153447	49.502	ppm	100
104) Atrazine	8.864	215	73215	48.853	ppm	96
105) Pentachlorophenol	8.960	266	40981	19.582	ppm	95
106) 4-Aminobiphenyl	8.960	169	496468	51.497	ppm	99
107) Pentachloronitrobenzene	8.965	237	42769	40.121	ppm	92
108) Pronamide	9.013	173	207281	51.588	ppm	99
109) Dinoseb	9.131	211	66826	26.136	ppm	95
110) Disulfoton	9.142	88	157898	46.457	ppm	99
111) Phenanthrene	9.168	178	651319	49.564	ppm	100
112) Anthracene	9.222	178	650874	49.597	ppm	99
113) Carbazole	9.382	167	698816	52.136	ppm	99
114) Di-n-butylphthalate	9.718	149	864857	52.458	ppm	99
115) 4-Nitroquinonline-1-oxide	9.943	190	42404	35.965	ppm	96
116) Fluoranthene	10.391	202	702699	52.430	ppm	99
118) Methyl Parathion	9.515	109	101901	41.941	ppm	98
119) Ethyl Parathion	9.900	97	72325	40.067	ppm	98
120) Methapyrilene	10.012	58	137610	41.686	ppm	98
121) Isodrin	10.220	193	65591	50.955	ppm	99
122) Benzidine	10.546	184	508537	55.186	ppm	97
123) Pyrene	10.658	202	728540	54.948	ppm	100
125) Aramite	10.915	185	92803m	59.561	ppm	
126) p-(Dimethylamino)azobe...	11.027	120	240836	58.886	ppm	97
127) Chlorobenzilate	11.091	139	216909	54.534	ppm	99
128) Butyl benzyl phthalate	11.529	149	387138	52.074	ppm	97
129) 3,3-Dimethylbenzidine	11.508	212	531237	50.848	ppm	99
130) 2-Acetylaminofluorene	11.903	181	290520	52.157	ppm	99
131) 3,3'-Dichlorobenzidine	12.394	252	323425	46.226	ppm	99
132) Benzo(a)anthracene	12.421	228	679376	48.810	ppm	98
133) Chrysene	12.485	228	627019	48.576	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.517	149	538970	52.318	ppm	99
136) Di-n-octyl phthalate	13.852	149	894231	52.723	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.557	256	331249	47.690	ppm	99
138) Benzo(b)Fluoranthene	14.557	252	703800	49.225	ppm	99
139) Benzo(k)fluoranthene	14.616	252	672301	49.181	ppm	99
140) Benzo(a)pyrene	15.257	252	609728	49.958	ppm	99
141) 3-Methylcholanthrene	16.026	268	364031	50.193	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.324	276	563776	50.521	ppm	97
143) Dibenz(a,h)anthracene	17.377	278	611653	48.397	ppm	100
144) Benzo(g,h,i)perylene	17.783	276	557496	52.712	ppm	99

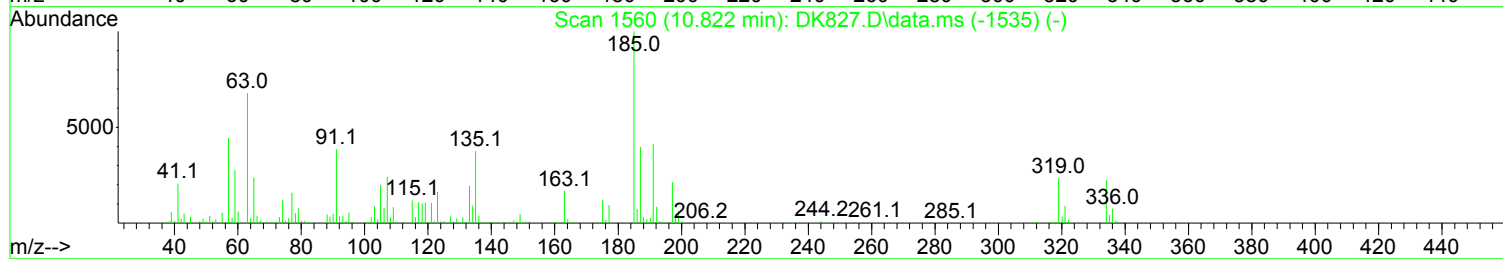
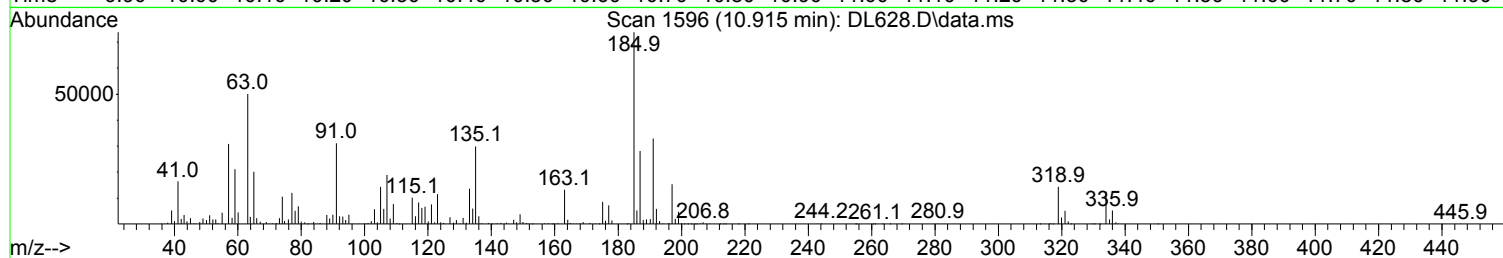
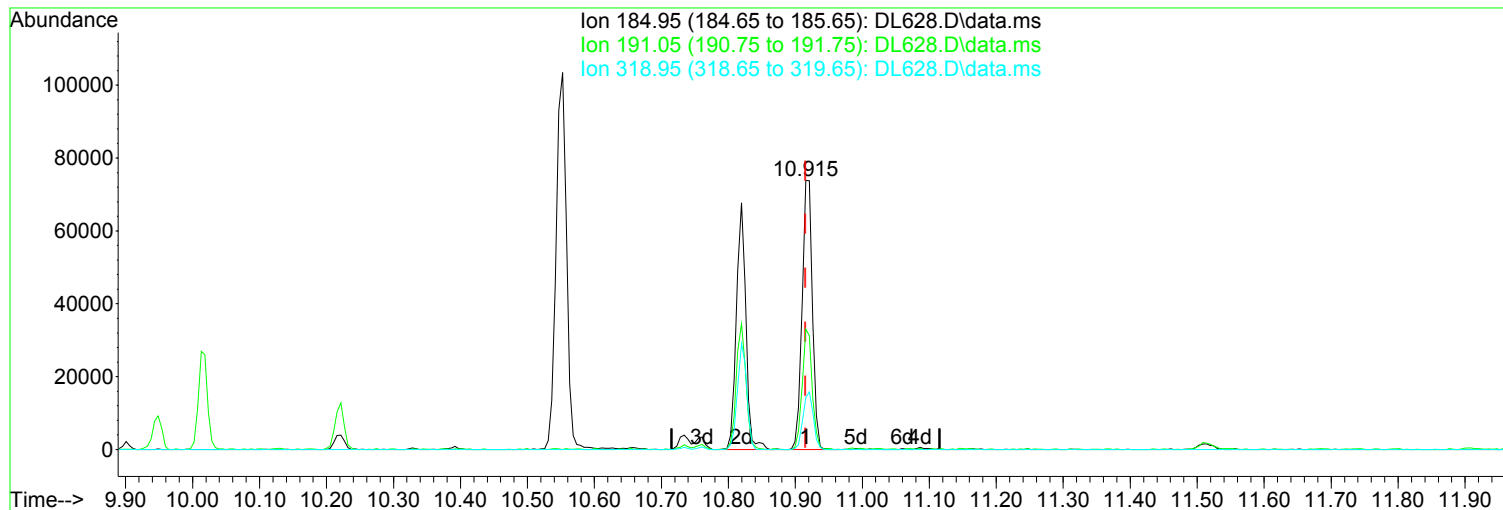
(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL628.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min ( 0.000) 96.15 ppm m

After

response 145793

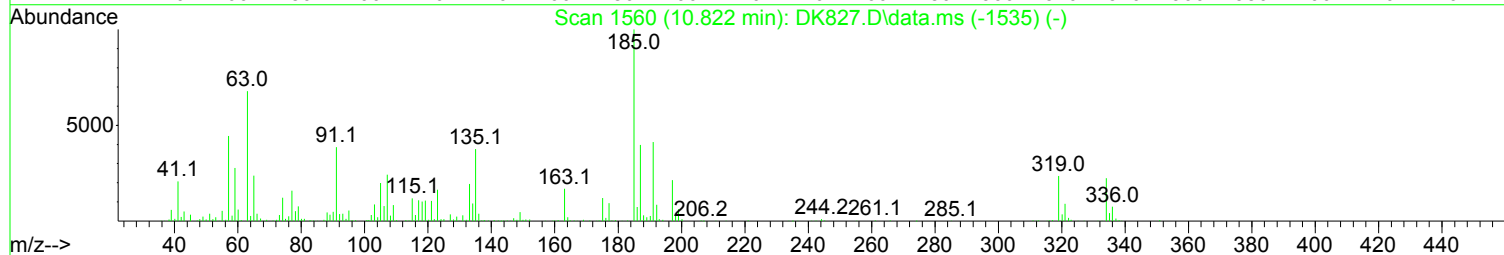
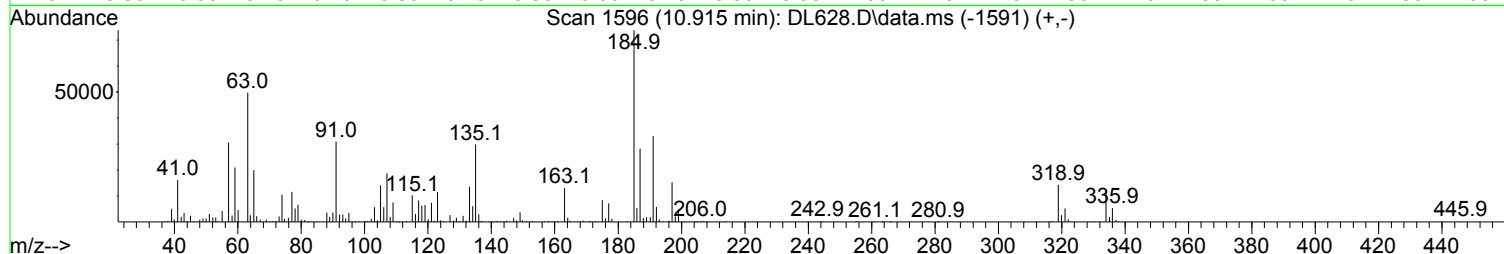
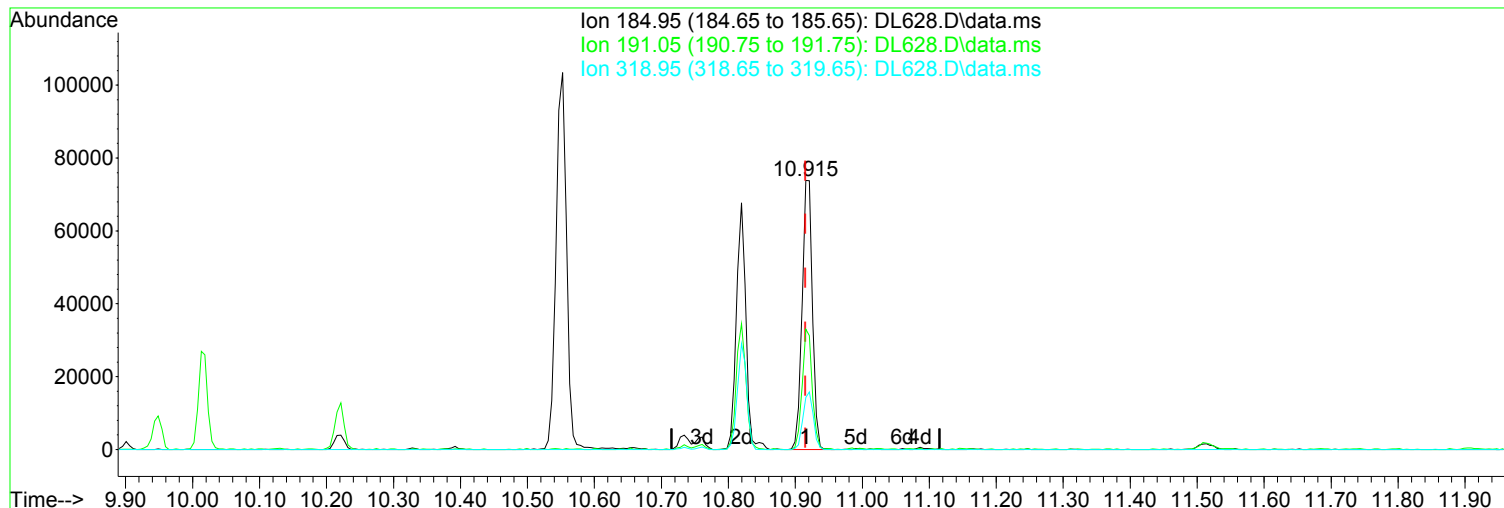
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	44.69
318.95	19.40	19.41
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.915min ( 0.000) 52.28 ppm

Before

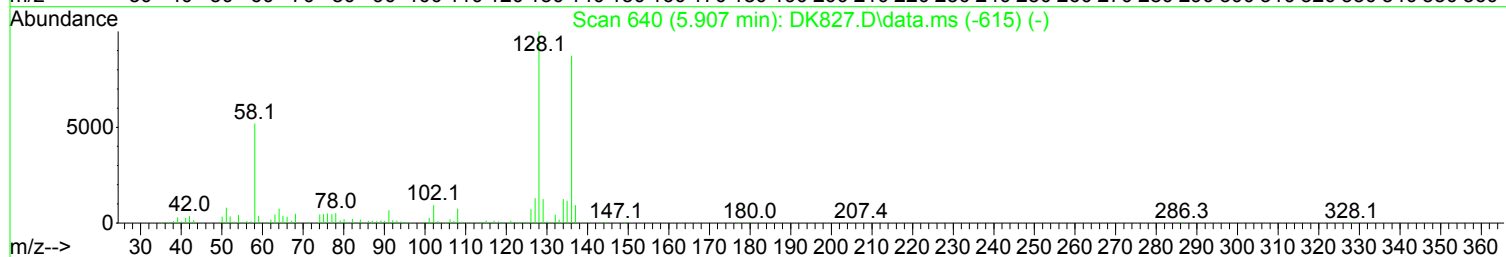
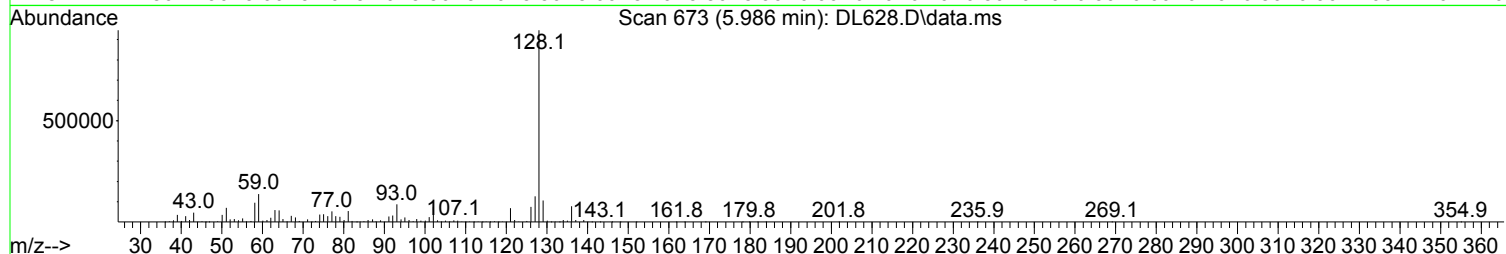
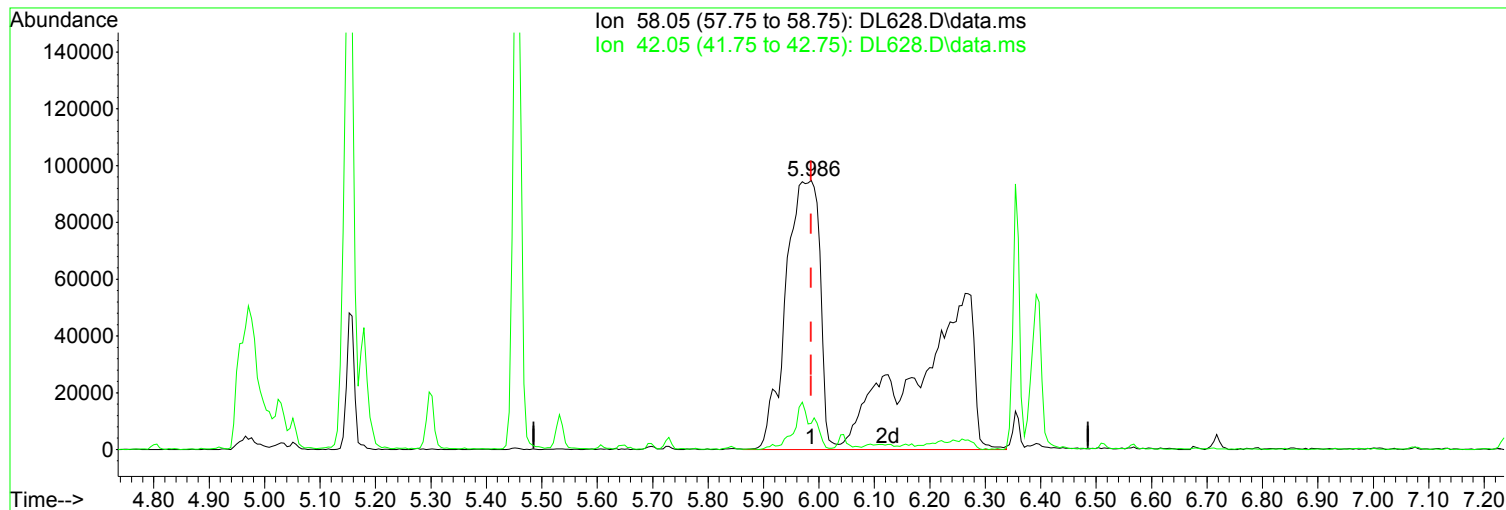
response 79281

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	44.69
318.95	19.40	19.41
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.986min ( 0.000) 75.84 ppm m

After

response 810044

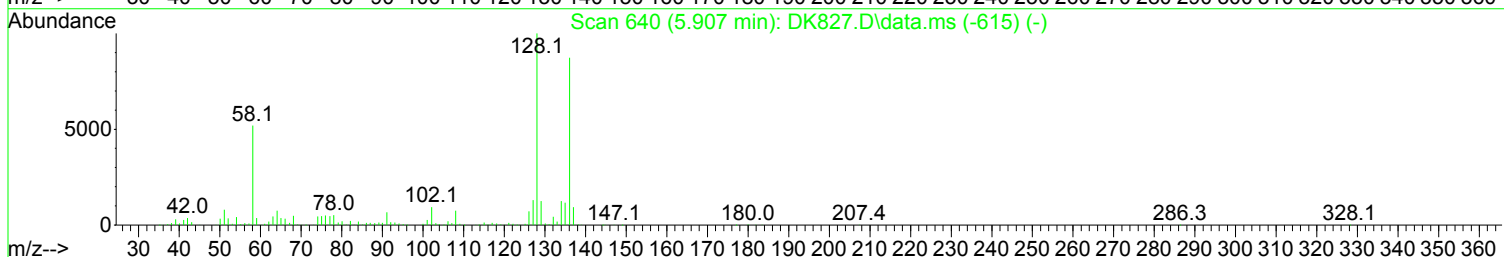
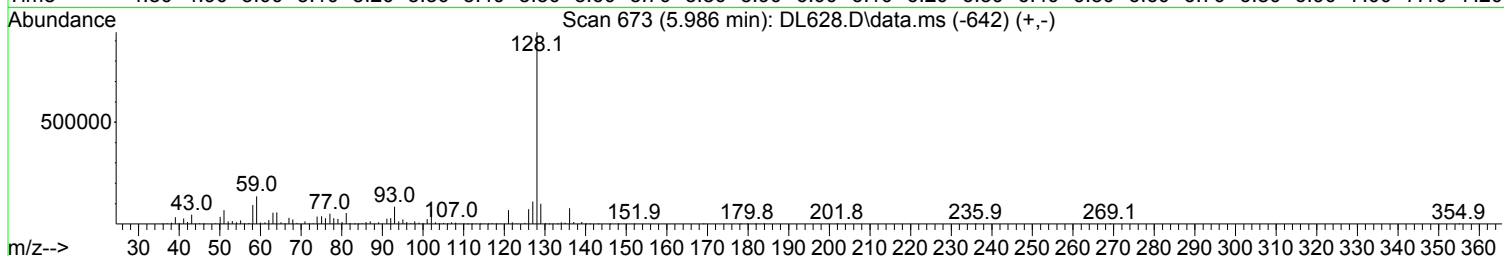
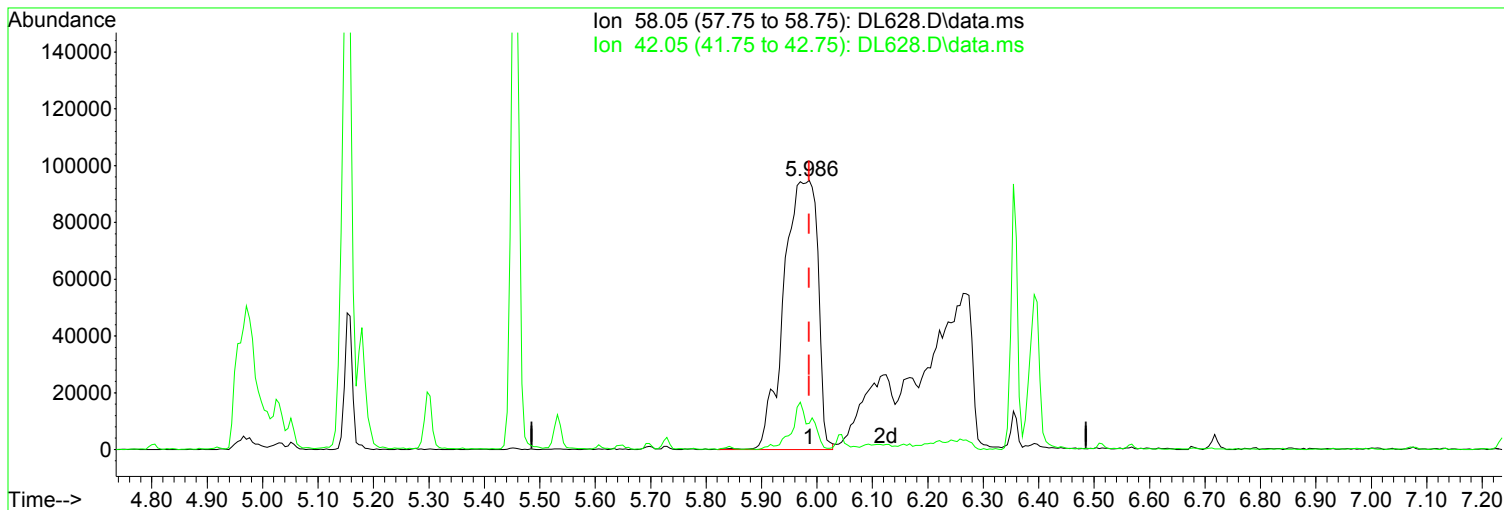
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	9.80
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL628.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.986min ( 0.000) 37.55 ppm

Before

response 401070

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	9.57
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	162352	40.00	ppm	0.00
33) d8-Naphthalene	5.970	136	628608	40.00	ppm	0.00
57) d10-Acenaphthene	7.679	164	299837	40.00	ppm	0.00
91) d10-Phenanthrene	9.148	188	504203	40.00	ppm	0.00
117) d12-Chrysene	12.443	240	476984	40.00	ppm	0.00
135) d12-Perylene	15.386	264	482398	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.737	112	432058	76.31	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	38.16%
12) SURR2,PHENOL-D6	4.474	99	537797	79.33	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	39.66%
34) SURR4,NITROBENZENE-D5	5.297	82	382569	67.45	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	67.45%
63) SURR5,2-FLUOROBIPHENYL	7.011	172	831359	74.12	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	74.12%
88) SURR3,2,4,6-TRIBROMOPH...	8.459	330	115470	50.22	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	25.11%#
124) SURR6,TERPHENYL-D14	10.846	244	839338	80.23	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	80.23%

Target Compounds						Qvalue
2) Pyridine	2.754	79	440417	78.634	ppm	100
3) N-Nitrosodimethylamine	2.722	74	221044	77.720	ppm	100
4) 2-Picoline	3.299	93	461149	76.916	ppm	100
5) N-Nitrosomethylamine	3.374	42	155810	70.977	ppm	100
6) Methyl Methansulfonate	3.604	80	184431	64.518	ppm	100
8) N-Nitrosodiethylamine	3.913	102	241988	77.889	ppm	100
9) Ethyl Mathanesulfonate	4.143	79	293988	75.211	ppm	100
10) Benzaldehyde	4.437	106	280766	75.842	ppm	100
11) Aniline	4.522	93	772593	79.262	ppm	100
13) Phenol	4.490	94	512841	77.388	ppm	100
14) bis(2-Clethyl)Ether	4.565	93	384680	78.017	ppm	100
15) Pentachloroethane	4.565	117	150814	77.496	ppm	100
16) 2-Chlorophenol	4.624	128	433317	79.595	ppm	100
17) 1,3-Diclbzene	4.757	146	462681	79.882	ppm	100
18) 1,4-Dichlorobenzene	4.821	146	473223	81.298	ppm	100
19) 1,2-Diclbzene	4.955	146	448504	81.021	ppm	100
20) Benzyl Alcohol	4.917	79	319477	76.113	ppm	100
21) 1-Methyl-2-pyrrolidinone	4.971	99	288337	84.505	ppm	100
22) 2,2'-oxybis(1-Chloropr...	5.030	45	349401	75.039	ppm	100
23) 2-Methylphenol	5.024	108	392020	80.421	ppm	100
24) 3+4-Methylphenol	5.158	108	420015	82.297	ppm	100
25) Acetophenone	5.158	105	559219	80.558	ppm	100
26) N-Nitroso-Di-n-propyla...	5.152	70	284349	80.193	ppm	100
27) N-Nitrosopyrrolidine	5.147	100	233738	85.841	ppm	100
28) N-Nitrosomorpholine	5.179	56	204469	76.850	ppm	100
29) o-Toluidine	5.190	106	673713	83.517	ppm	100
30) Hexachloroethane	5.254	117	173923	82.864	ppm	100
31) o,o,o-Triethylphosphor...	5.697	198	175005	77.331	ppm	100
32) Alpha-terpinol	5.991	121	150137	85.334	ppm	100
35) Nitrobenzene	5.318	77	394333	68.878	ppm	100
36) N-Nitrosopiperidine	5.457	42	201029	72.301	ppm	100
37) Isophorone	5.532	82	741721	76.179	ppm	100
38) 2-Nitrophenol	5.606	139	199016	67.756	ppm	100

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.644	107	411647	77.014	ppm	100
40) bis(-2-Chloroethoxy)Me...	5.729	93	448795	76.651	ppm	100
41) Benzoic Acid	5.740	105	163453	41.427	ppm	97
42) 2,4-Dichlorophenol	5.841	162	319957	76.069	ppm	100
43) a,a-Dimethylphenethyla...	5.986	58	810044m	75.837	ppm	
44) 1,2,4-Trichlorobenzene	5.911	180	340173	72.735	ppm	100
45) Naphthalene	5.991	128	1235286	77.838	ppm	100
46) 4-Chloroaniline	6.044	127	584020	75.252	ppm	100
47) 2,6-Dichlorophenol	6.050	162	342591	75.151	ppm	100
48) Hexachlorobutadiene	6.098	225	167823	65.358	ppm	100
49) Hexachloropropene	6.071	213	197293	64.319	ppm	100
50) 4-Chloro-3-methylphenol	6.514	107	321164	78.657	ppm	100
51) N-N-di-n-butylamine	6.354	84	250421	72.365	ppm	100
52) Caprolactam	6.397	113	133752	85.246	ppm	100
53) p-Phenylenediamine	6.397	80	16333	75.696	ppm	100
54) Safole	6.568	162	348097	77.493	ppm	100
55) 2-Methylnaphthalene	6.659	142	795849	78.605	ppm	100
56) 1-Methylnaphthalene	6.755	142	740009	78.149	ppm	100
58) Hexachlorocyclopentadiene	6.803	237	181900	64.838	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.819	216	315106	68.583	ppm	100
60) 1,2,3,4-Tetrachloroben...	7.097	216	305831	70.422	ppm	100
61) 2,4,6-Trichlorophenol	6.931	196	203855	70.946	ppm	100
62) 2,4,5-Trichlorophenol	6.974	196	211430	70.927	ppm	100
64) Isosafrole	7.075	104	133482	70.561	ppm	100
65) 1,1'-Biphenyl	7.113	154	946430	76.128	ppm	100
66) 2-Chloronaphthalene	7.134	162	694966	75.677	ppm	100
67) 2-Nitroaniline	7.235	65	161974	68.153	ppm	100
68) 1,4-Naphthoquinone	7.310	158	235266	80.673	ppm	100
69) m-Dinitrobenzene	7.449	168	100775	59.258	ppm	100
70) Acenaphthylene	7.540	152	1153471	79.004	ppm	100
71) Dimethyl phthalate	7.412	163	751584	74.193	ppm	100
72) 2,6-Dinitrotoluene	7.470	165	165434	72.934	ppm	100
73) Acenaphthene	7.711	153	791013	79.309	ppm	100
74) 3-Nitroaniline	7.641	138	192048	70.204	ppm	100
75) 2,4-Dinitrophenol	7.743	184	43500	40.258	ppm	100
76) Dibenzofuran	7.882	168	958733	74.780	ppm	100
77) 2,4-Dinitrotoluene	7.871	165	208131	64.041	ppm	100
78) 4-Nitrophenol	7.823	65	113667	61.053	ppm	100
79) Pentachlorobenzene	7.839	250	281053	65.222	ppm	100
80) 1-Naphthylamine	7.962	143	484558	73.786	ppm	100
81) 2-Naphthylamine	8.042	143	671075	75.957	ppm	100
82) 2,3,4,6-Tetrachlorophenol	8.005	232	140047	60.650	ppm	100
83) Fluorene	8.218	166	801614	75.726	ppm	100
84) 4-Chlorophenyl-phenyle...	8.213	204	322506	70.873	ppm	100
85) Diethylphthalate	8.101	149	767293	71.702	ppm	100
86) 4-Nitroaniline	8.250	138	225187	75.224	ppm	100
87) 5-Nitro-o-toluidine	8.240	152	224974	71.653	ppm	100
89) Sulfotepp	8.485	322	135048	56.952	ppm	100
90) Octachlorocyclopentene	8.469	307	116526	55.955	ppm	100
92) Thionazin	8.186	107	130121	84.980	ppm	100
93) 4,6-Dinitro-2-methylph...	8.272	198	94496	52.782	ppm	100
94) Diphenylamine	8.336	169	1150908	156.843	ppm	100
95) 1,2 Diphenylhydrazine	8.373	77	680846	76.897	ppm	100
96) N-Nitrosodiphenylamine	8.336	169	1151275	156.893	ppm	100
97) 1,3,5-Trinitrobenzene	8.608	74	86923	56.401	ppm	100
98) Diallate	8.613	86	261545	73.025	ppm	100

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL628.D  
 Acq On : 23 Jan 2018 2:16 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

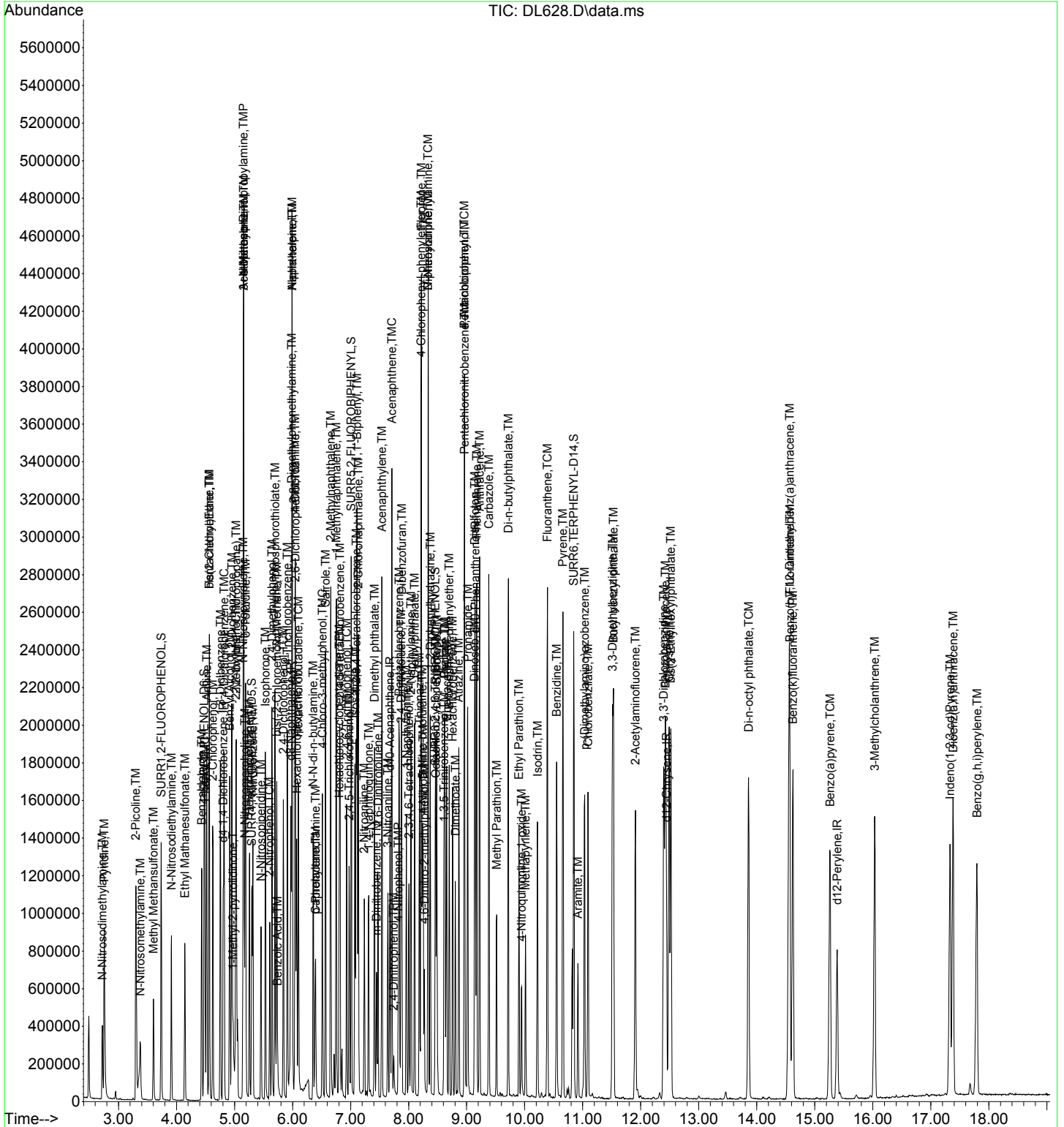
Quant Time: Jan 24 06:47:06 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.624	121	139626	81.752	ppm	100
100) Phenacetin	8.656	108	410015	81.384	ppm	100
101) 4-Bromophenyl-phenylether	8.699	248	177772	65.961	ppm	100
102) Hexachlorobenzene	8.758	284	223661	63.420	ppm	100
103) Dimethoate	8.806	87	216454	68.891	ppm	100
104) Atrazine	8.864	215	113887	74.971	ppm	100
105) Pentachlorophenol	8.961	266	78737	37.117	ppm	100
106) 4-Aminobiphenyl	8.961	169	804620	82.341	ppm	100
107) Pentachloronitrobenzene	8.966	237	71364	66.047	ppm	100
108) Pronamide	9.019	173	333103	81.790	ppm	100
109) Dinoseb	9.137	211	126521	48.819	ppm	100
110) Disulfoton	9.142	88	256667	74.504	ppm	100
111) Phenanthrene	9.174	178	1043155	78.316	ppm	100
112) Anthracene	9.222	178	1066846	80.203	ppm	100
113) Carbazole	9.383	167	1112665	81.898	ppm	100
114) Di-n-butylphthalate	9.719	149	1373645	82.200	ppm	100
115) 4-Nitroquinonline-1-oxide	9.949	190	73459	61.467	ppm	100
116) Fluoranthene	10.392	202	1116412	82.180	ppm	100
118) Methyl Parathion	9.516	109	168603	71.306	ppm	100
119) Ethyl Parathion	9.901	97	128207	72.983	ppm	100
120) Methapyrilene	10.013	58	208457	64.888	ppm	100
121) Isodrin	10.221	193	107673	85.953	ppm	100
122) Benzidine	10.552	184	783446	87.362	ppm	100
123) Pyrene	10.659	202	1155936	89.586	ppm	100
125) Aramite	10.915	185	145793m	96.149	ppm	
126) p-(Dimethylamino)azobe...	11.033	120	373775	93.909	ppm	100
127) Chlorobenzilate	11.092	139	341372	88.192	ppm	100
128) Butyl benzyl phthalate	11.530	149	626432	86.584	ppm	100
129) 3,3-Dimethylbenzidine	11.514	212	832381	81.868	ppm	100
130) 2-Acetylaminofluorene	11.909	181	491036	90.586	ppm	100
131) 3,3'-Dichlorobenzidine	12.395	252	521387	76.575	ppm	100
132) Benzo(a)anthracene	12.422	228	1068699	78.898	ppm	100
133) Chrysene	12.491	228	993504	79.090	ppm	100
134) bis(2-Ethylhexyl)phtha...	12.518	149	864721	86.252	ppm	100
136) Di-n-octyl phthalate	13.858	149	1472193	88.006	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.563	256	530519	77.442	ppm	100
138) Benzo(b)Fluoranthene	14.569	252	1122902	79.630	ppm	100
139) Benzo(k)fluoranthene	14.622	252	1064985	78.991	ppm	100
140) Benzo(a)pyrene	15.263	252	975392	81.030	ppm	100
141) 3-Methylcholanthrene	16.032	268	589066	82.352	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.330	276	910930	82.766	ppm	100
143) Dibenz(a,h)anthracene	17.384	278	999095	80.154	ppm	100
144) Benzo(g,h,i)perylene	17.795	276	882192	91.118	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL628.D  
Acq On : 23 Jan 2018 2:16 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

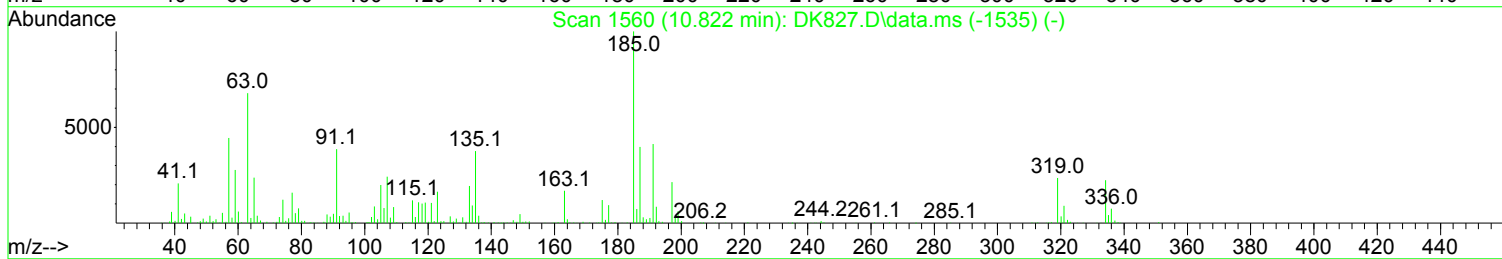
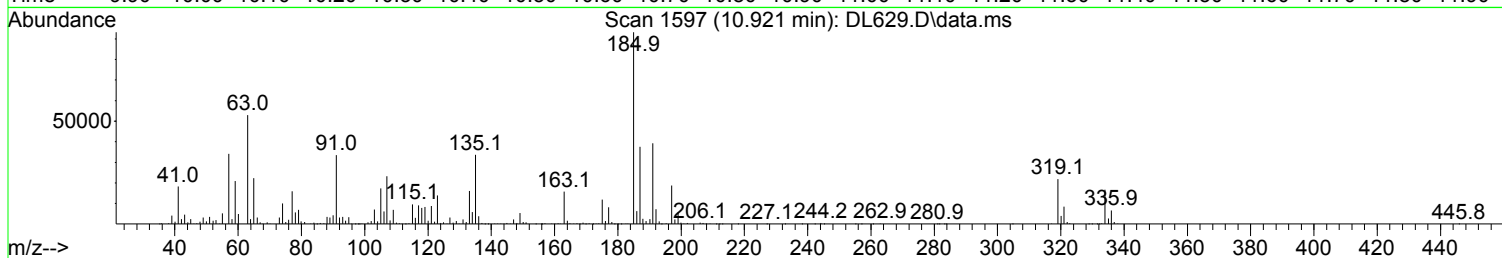
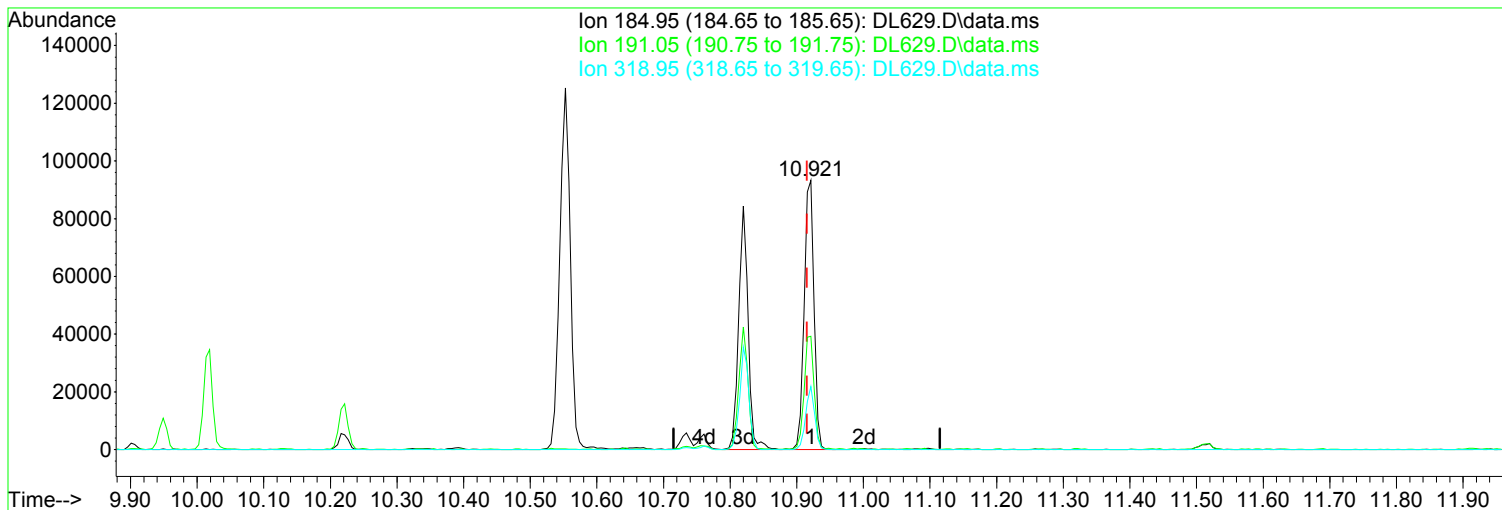
Quant Time: Jan 24 06:47:06 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.921min (+ 0.006) 118.30 ppm m

After

response 179884

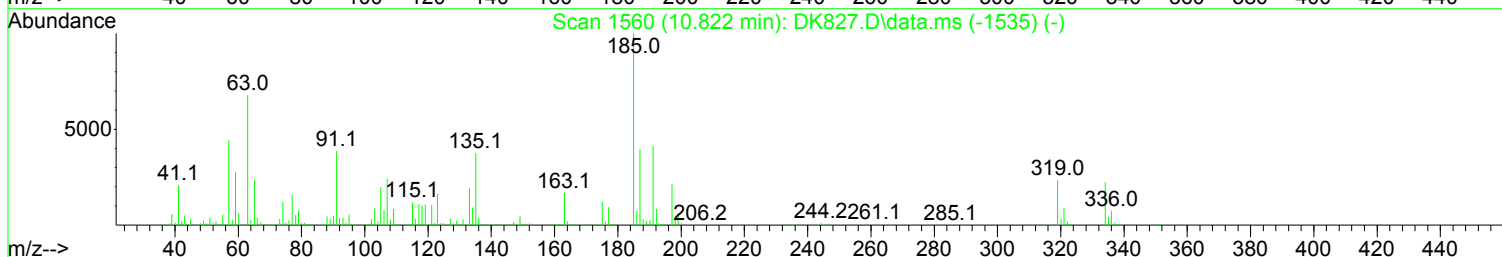
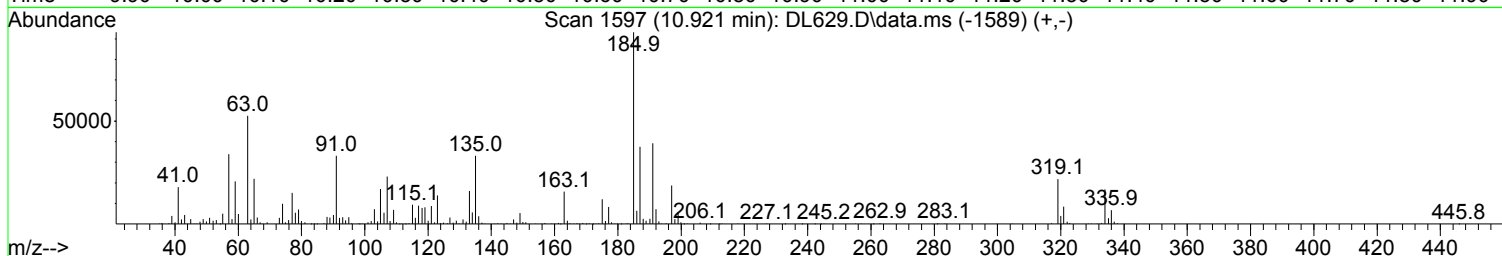
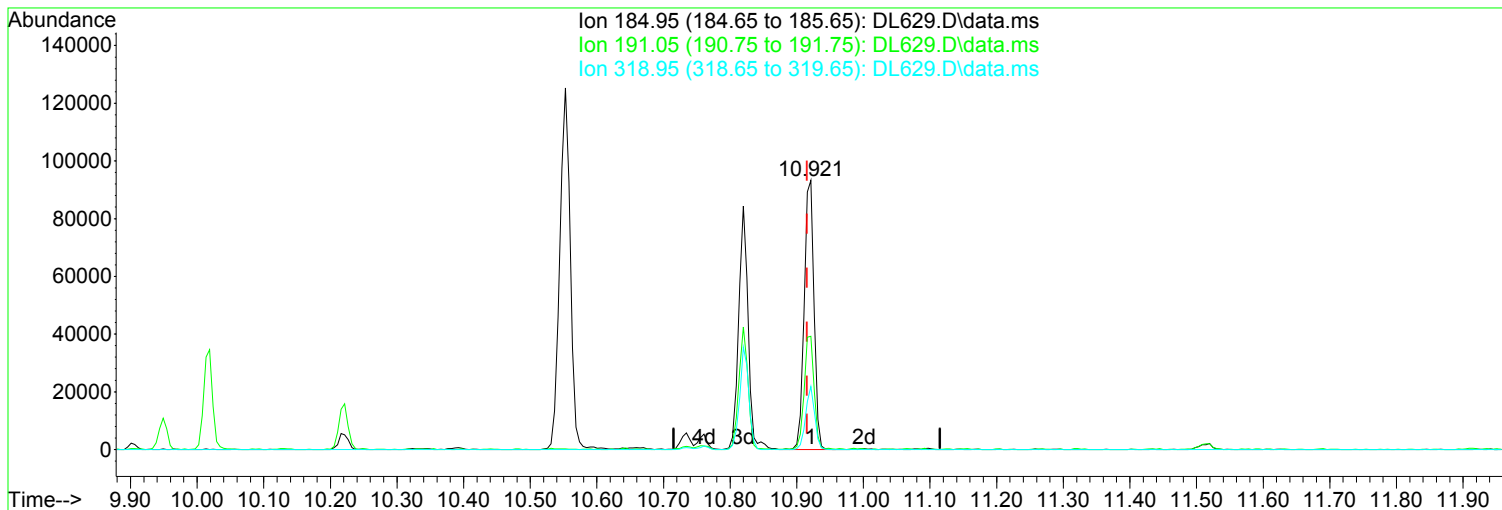
Split Peak.

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	42.16
318.95	19.40	23.45
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.921min (+ 0.006) 63.22 ppm

Before

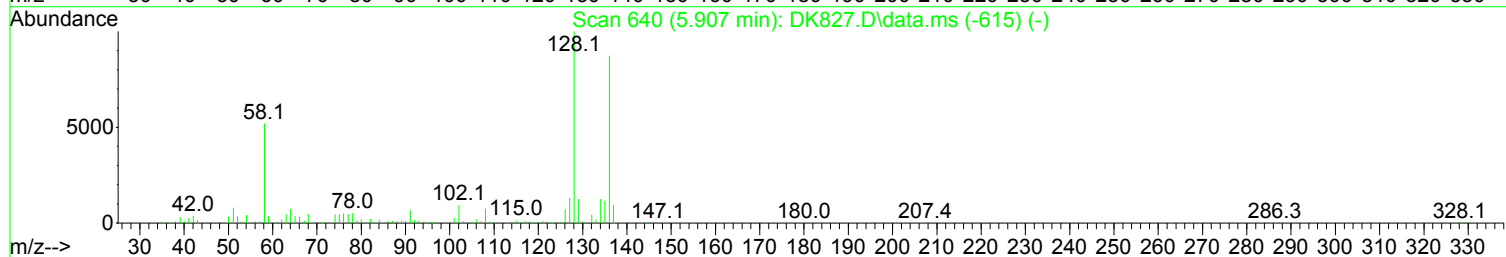
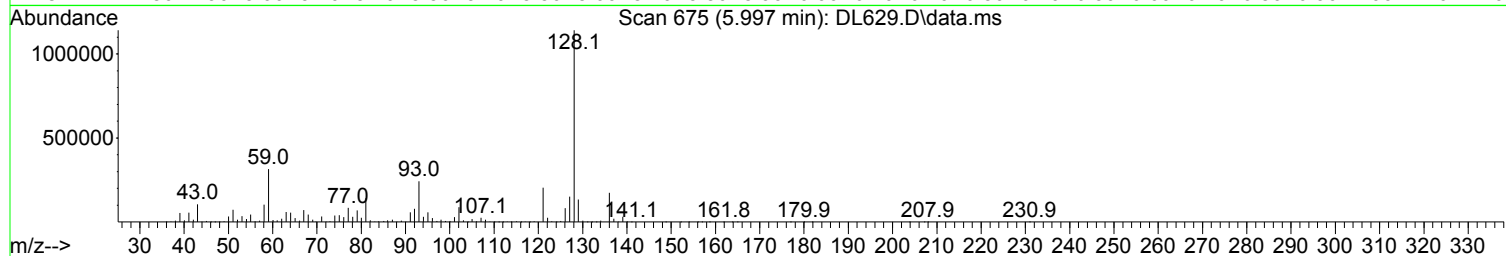
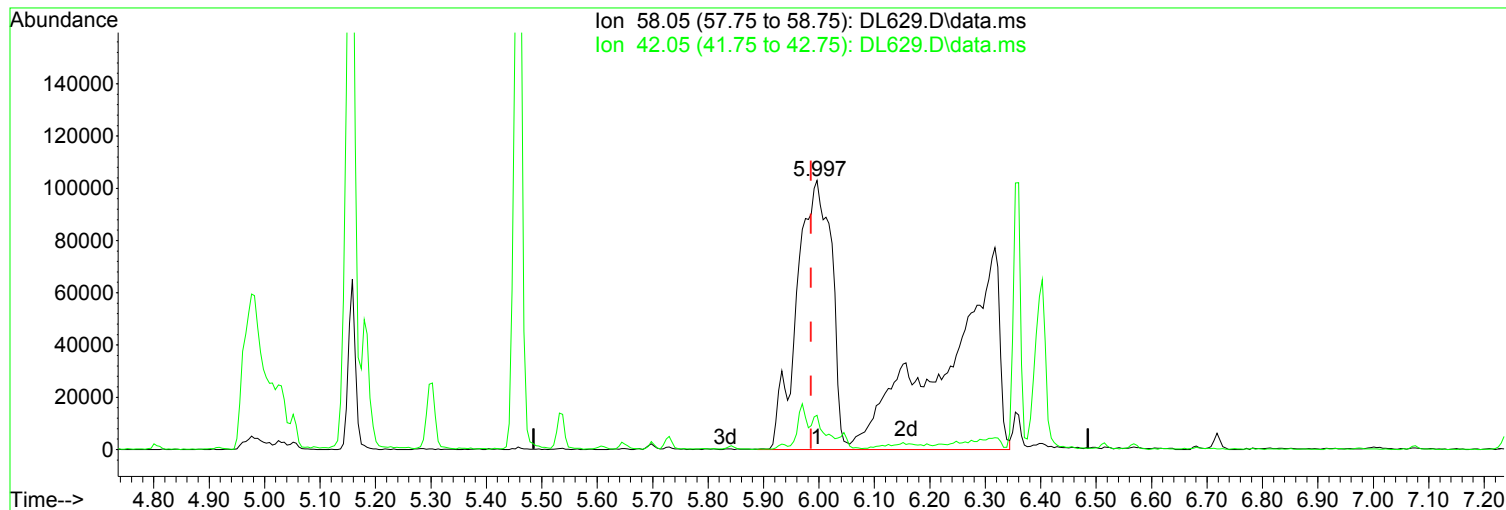
response 96137

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	42.04
318.95	19.40	23.45
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.997min (+ 0.011) 93.65 ppm m

After

response 975404

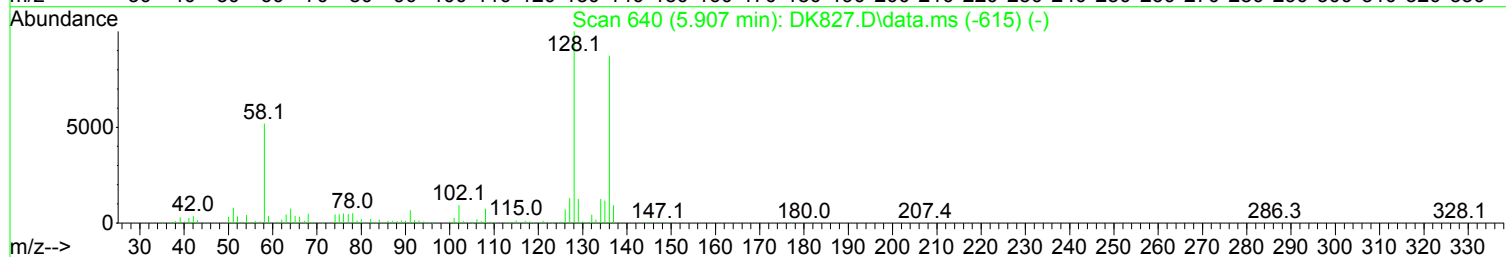
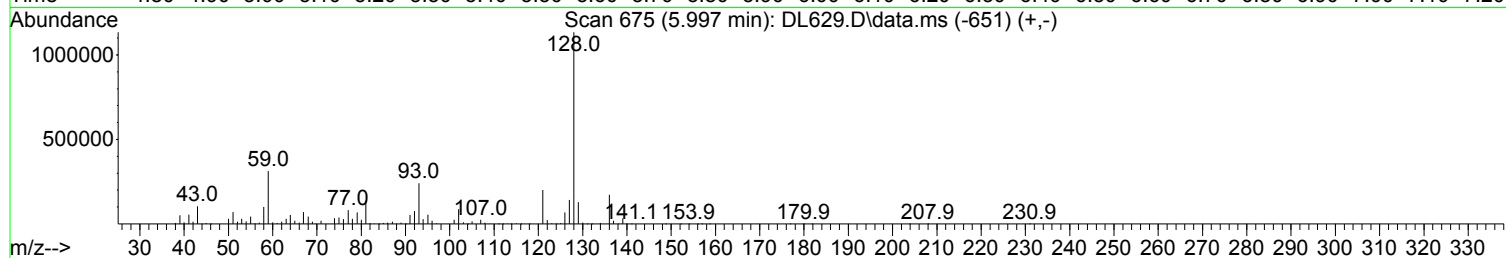
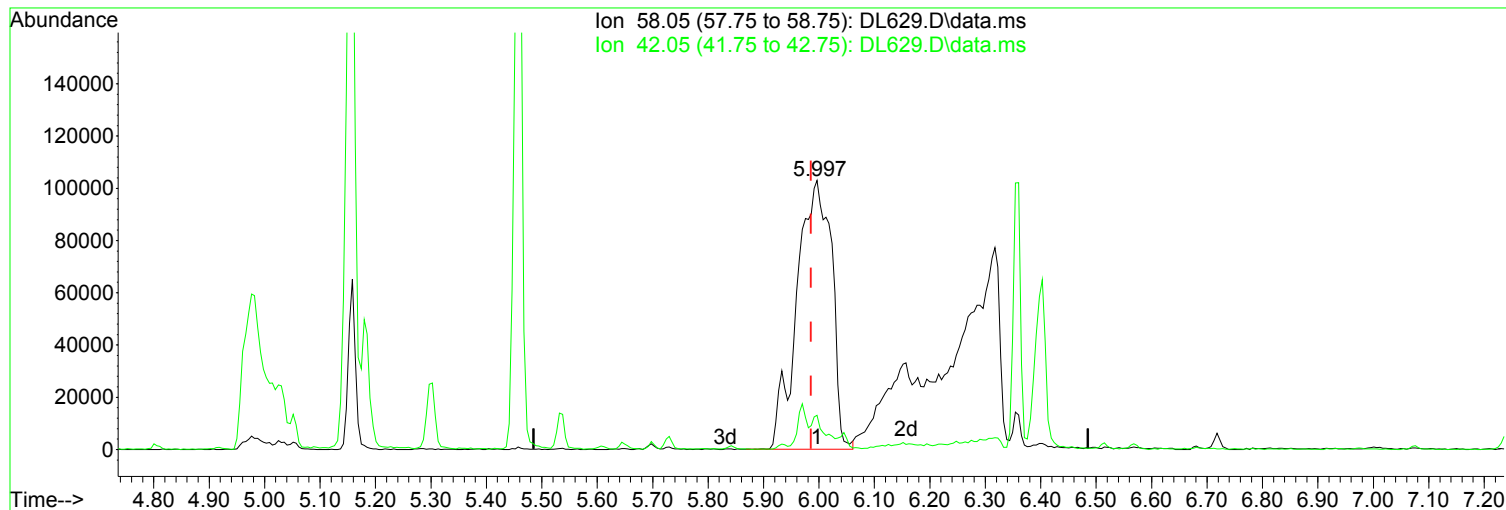
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	12.71
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL629.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.997min (+ 0.011) 42.88 ppm

Before

response 446586

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	12.50
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL629.D  
 Acq On : 23 Jan 2018 2:44 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.806	152	163567	40.00	ppm	0.00	
33) d8-Naphthalene	5.970	136	612983	40.00	ppm	0.00	
57) d10-Acenaphthene	7.679	164	290624	40.00	ppm	0.00	
91) d10-Phenanthrene	9.148	188	507909	40.00	ppm	0.00	
117) d12-Chrysene	12.443	240	478329	40.00	ppm	0.00	
135) d12-Perylene	15.386	264	472525	40.00	ppm	0.00	
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.737	112	529363	92.80	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	46.40%	
12) SURR2,PHENOL-D6	4.480	99	669888	98.08	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	49.04%	
34) SURR4,NITROBENZENE-D5	5.302	82	481777	87.11	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	87.11%	
63) SURR5,2-FLUOROBIPHENYL	7.011	172	1029649	94.71	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	94.71%	
88) SURR3,2,4,6-TRIBROMOPH...	8.459	330	143600	64.43	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	32.22%	
124) SURR6,TERPHENYL-D14	10.846	244	1032176	98.39	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	98.39%	
Target Compounds							
							Qvalue
2) Pyridine	2.755	79	537453	95.247	ppm		98
3) N-Nitrosodimethylamine	2.723	74	274422	95.772	ppm		100
4) 2-Picoline	3.299	93	566979	93.866	ppm		98
5) N-Nitrosomethylamine	3.374	42	194594	87.986	ppm		97
6) Methyl Methansulfonate	3.604	80	226797	78.749	ppm		99
8) N-Nitrosodiethylamine	3.914	102	297116	94.923	ppm		97
9) Ethyl Mathanesulfonate	4.149	79	361385	91.766	ppm		96
10) Benzaldehyde	4.437	106	335220	89.879	ppm		98
11) Aniline	4.523	93	951461	96.887	ppm		79
13) Phenol	4.490	94	655367	98.160	ppm		90
14) bis(2-Clethyl)Ether	4.565	93	473949	95.407	ppm		98
15) Pentachloroethane	4.565	117	186761	95.255	ppm		99
16) 2-Chlorophenol	4.629	128	537879	98.068	ppm		98
17) 1,3-Diclbzene	4.758	146	566652	97.106	ppm		97
18) 1,4-Dichlorobenzene	4.822	146	586958	100.088	ppm		99
19) 1,2-Diclbzene	4.955	146	554880	99.492	ppm		99
20) Benzyl Alcohol	4.918	79	390710	92.392	ppm		99
21) 1-Methyl-2-pyrrolidinone	4.977	99	353033	102.697	ppm		98
22) 2,2'-oxybis(1-Chloropr...	5.030	45	425192	90.638	ppm		98
23) 2-Methylphenol	5.030	108	485807	98.921	ppm		94
24) 3+4-Methylphenol	5.163	108	519296	100.994	ppm		96
25) Acetophenone	5.158	105	686213	98.118	ppm		95
26) N-Nitroso-Di-n-propyla...	5.158	70	346097	96.882	ppm		94
27) N-Nitrosopyrrolidine	5.153	100	284819	103.823	ppm		79
28) N-Nitrosomorpholine	5.180	56	249157	92.951	ppm		97
29) o-Toluidine	5.190	106	833432	102.550	ppm		89
30) Hexachloroethane	5.260	117	209847	99.237	ppm		86
31) o,o,o-Triethylphosphor...	5.698	198	218712	95.926	ppm		99
32) Alpha-terpinol	5.997	121	186291	105.096	ppm		95
35) Nitrobenzene	5.318	77	487995	87.411	ppm		100
36) N-Nitrosopiperidine	5.457	42	239717	88.412	ppm		97
37) Isophorone	5.537	82	912184	96.074	ppm		98
38) 2-Nitrophenol	5.607	139	257082	89.757	ppm		98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL629.D  
 Acq On : 23 Jan 2018 2:44 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 24 06:47:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.650	107	497540	95.457	ppm	95
40) bis(-2-Chloroethoxy)Me...	5.730	93	547169	95.835	ppm	99
41) Benzoic Acid	5.751	105	231310	60.120	ppm	97
42) 2,4-Dichlorophenol	5.842	162	405537	98.874	ppm	96
43) a,a-Dimethylphenethyla...	5.997	58	975404m	93.646	ppm	
44) 1,2,4-Trichlorobenzene	5.911	180	418626	91.791	ppm	100
45) Naphthalene	5.991	128	1491253	96.362	ppm	99
46) 4-Chloroaniline	6.045	127	727528	96.133	ppm	99
47) 2,6-Dichlorophenol	6.055	162	422550	95.054	ppm	93
48) Hexachlorobutadiene	6.104	225	206102	82.312	ppm	98
49) Hexachloropropene	6.071	213	248190	82.974	ppm	100
50) 4-Chloro-3-methylphenol	6.515	107	396668	99.625	ppm	95
51) N-N-di-n-butylamine	6.360	84	305913	90.654	ppm	98
52) Caprolactam	6.403	113	163756	107.029	ppm	95
53) p-Phenylenediamine	6.397	80	21331	101.379	ppm	90
54) Safrole	6.568	162	427871	97.681	ppm	99
55) 2-Methylnaphthalene	6.659	142	969998	98.248	ppm	98
56) 1-Methylnaphthalene	6.755	142	916769	99.284	ppm	99
58) Hexachlorocyclopentadiene	6.803	237	224064	82.399	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.819	216	388902	87.328	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.097	216	377931	89.783	ppm	98
61) 2,4,6-Trichlorophenol	6.937	196	256697	92.169	ppm	98
62) 2,4,5-Trichlorophenol	6.979	196	260680	90.220	ppm	97
64) Isosafrole	7.076	104	163232	89.023	ppm	# 27
65) 1,1'-Biphenyl	7.113	154	1158791	96.164	ppm	97
66) 2-Chloronaphthalene	7.134	162	860187	96.638	ppm	99
67) 2-Nitroaniline	7.241	65	199213	86.479	ppm	93
68) 1,4-Naphthoquinone	7.311	158	277724	98.251	ppm	83
69) m-Dinitrobenzene	7.449	168	135623	82.277	ppm	95
70) Acenaphthylene	7.540	152	1397743	98.770	ppm	99
71) Dimethyl phthalate	7.412	163	926541	94.363	ppm	100
72) 2,6-Dinitrotoluene	7.476	165	208813	94.976	ppm	79
73) Acenaphthene	7.711	153	972871	100.635	ppm	94
74) 3-Nitroaniline	7.642	138	249552	94.117	ppm	97
75) 2,4-Dinitrophenol	7.749	184	60927	54.447	ppm	85
76) Dibenzofuran	7.882	168	1183620	95.247	ppm	98
77) 2,4-Dinitrotoluene	7.871	165	275587	87.485	ppm	98
78) 4-Nitrophenol	7.829	65	146633	81.257	ppm	93
79) Pentachlorobenzene	7.839	250	341253	81.702	ppm	98
80) 1-Naphthylamine	7.962	143	593194	93.192	ppm	100
81) 2-Naphthylamine	8.042	143	812873	94.923	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.005	232	176514	78.866	ppm	97
83) Fluorene	8.219	166	961714	93.731	ppm	95
84) 4-Chlorophenyl-phenyle...	8.219	204	383777	87.011	ppm	95
85) Diethylphthalate	8.106	149	953778	91.954	ppm	97
86) 4-Nitroaniline	8.256	138	279586	96.356	ppm	99
87) 5-Nitro-o-toluidine	8.240	152	291826	95.892	ppm	95
89) Sulfotepp	8.486	322	169269	73.647	ppm	97
90) Octachlorocyclopentene	8.470	307	147539	73.093	ppm	98
92) Thionazin	8.187	107	155598	100.877	ppm	97
93) 4,6-Dinitro-2-methylph...	8.277	198	125398	69.532	ppm	96
94) Diphenylamine	8.341	169	1424716	192.740	ppm	100
95) 1,2 Diphenylhydrazine	8.373	77	831070	93.179	ppm	98
96) N-Nitrosodiphenylamine	8.341	169	1424716	192.740	ppm	100
97) 1,3,5-Trinitrobenzene	8.614	74	115505	74.400	ppm	83
98) Diallate	8.614	86	327311	90.721	ppm	99

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL629.D  
 Acq On : 23 Jan 2018 2:44 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

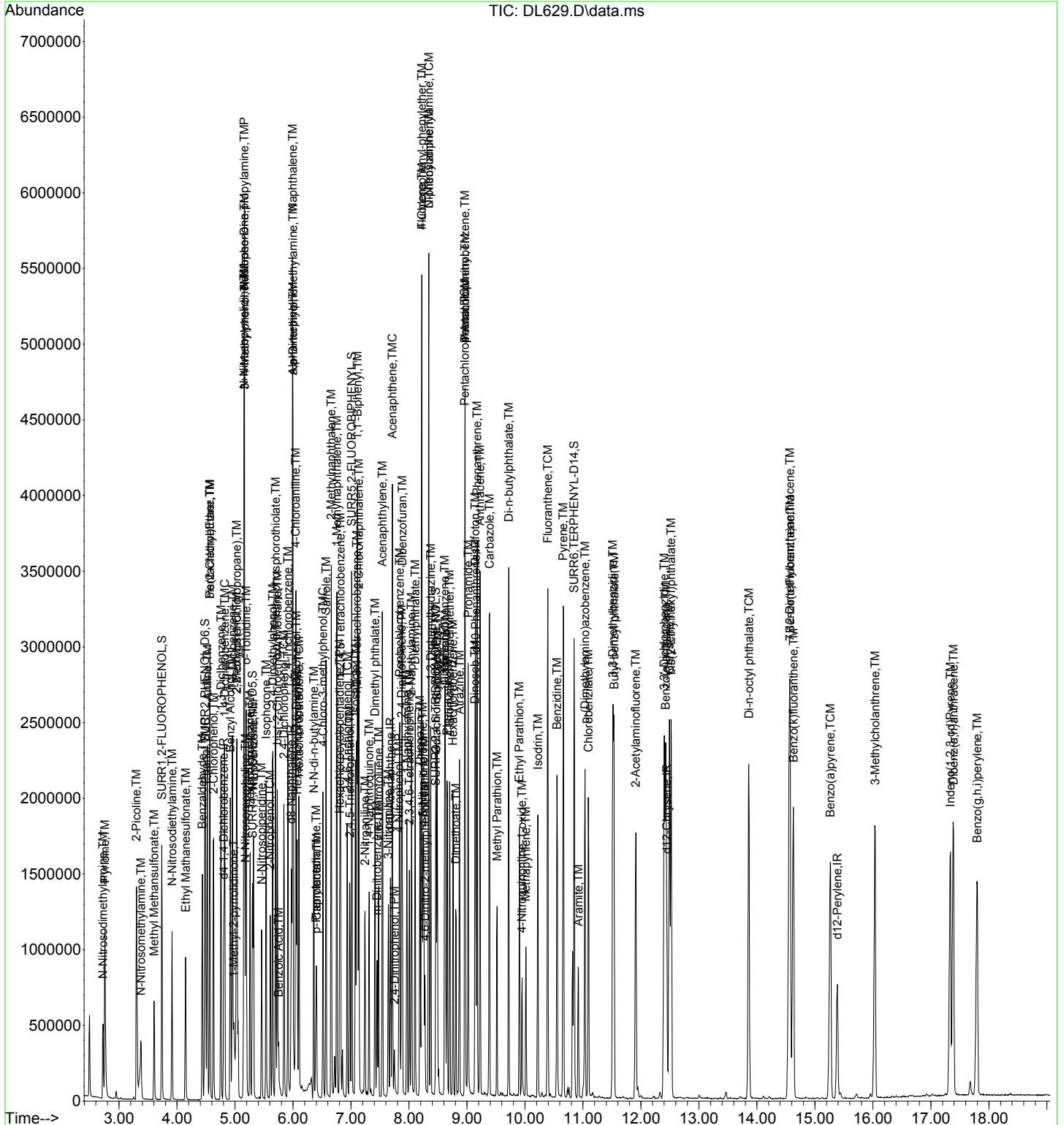
Quant Time: Jan 24 06:47:13 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.624	121	174106	101.196	ppm	87
100) Phenacetin	8.657	108	496868	97.903	ppm	97
101) 4-Bromophenyl-phenylether	8.699	248	221712	81.665	ppm	97
102) Hexachlorobenzene	8.758	284	272241	76.632	ppm	96
103) Dimethoate	8.806	87	256534	81.051	ppm	98
104) Atrazine	8.870	215	137857	90.088	ppm	96
105) Pentachlorophenol	8.961	266	106544	49.859	ppm	97
106) 4-Aminobiphenyl	8.966	169	996735	101.257	ppm	99
107) Pentachloronitrobenzene	8.966	237	87898	80.755	ppm	96
108) Pronamide	9.020	173	416015	101.403	ppm	99
109) Dinoseb	9.137	211	165949	63.565	ppm	97
110) Disulfoton	9.143	88	313778	90.418	ppm	97
111) Phenanthrene	9.175	178	1295833	96.577	ppm	99
112) Anthracene	9.223	178	1312804	97.973	ppm	99
113) Carbazole	9.388	167	1378628	100.733	ppm	100
114) Di-n-butylphthalate	9.719	149	1705346	101.305	ppm	99
115) 4-Nitroquinonline-1-oxide	9.949	190	90964	75.560	ppm	95
116) Fluoranthene	10.392	202	1389616	101.545	ppm	98
118) Methyl Parathion	9.516	109	202410	85.364	ppm	99
119) Ethyl Parathion	9.901	97	159827	90.727	ppm	98
120) Methapyrilene	10.013	58	246493	76.512	ppm	99
121) Isodrin	10.221	193	134517	107.080	ppm	98
122) Benzidine	10.553	184	954469	106.134	ppm	99
123) Pyrene	10.659	202	1442948	111.516	ppm	100
125) Aramite	10.921	185	179884m	118.298	ppm	
126) p-(Dimethylamino)azobe...	11.033	120	464045	116.261	ppm	98
127) Chlorobenzilate	11.092	139	427429	110.114	ppm	98
128) Butyl benzyl phthalate	11.535	149	769398	106.046	ppm	97
129) 3,3-Dimethylbenzidine	11.514	212	1007985	98.861	ppm	99
130) 2-Acetylaminofluorene	11.909	181	609987	112.213	ppm	99
131) 3,3'-Dichlorobenzidine	12.401	252	641574	93.961	ppm	99
132) Benzo(a)anthracene	12.422	228	1320525	97.215	ppm	99
133) Chrysene	12.491	228	1217237	96.628	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.518	149	1062396	105.671	ppm	99
136) Di-n-octyl phthalate	13.859	149	1823923	111.311	ppm	99
137) 7,12-Dimethylbenz(a)an...	14.564	256	654227	97.496	ppm	98
138) Benzo(b)Fluoranthene	14.569	252	1394953	100.990	ppm	98
139) Benzo(k)fluoranthene	14.628	252	1279473	96.883	ppm	99
140) Benzo(a)pyrene	15.263	252	1200921	101.851	ppm	99
141) 3-Methylcholanthrene	16.038	268	711658	101.569	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.336	276	1098205	101.867	ppm	100
143) Dibenz(a,h)anthracene	17.389	278	1217570	99.723	ppm	99
144) Benzo(g,h,i)perylene	17.800	276	1055924	116.723	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL629.D  
Acq On : 23 Jan 2018 2:44 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

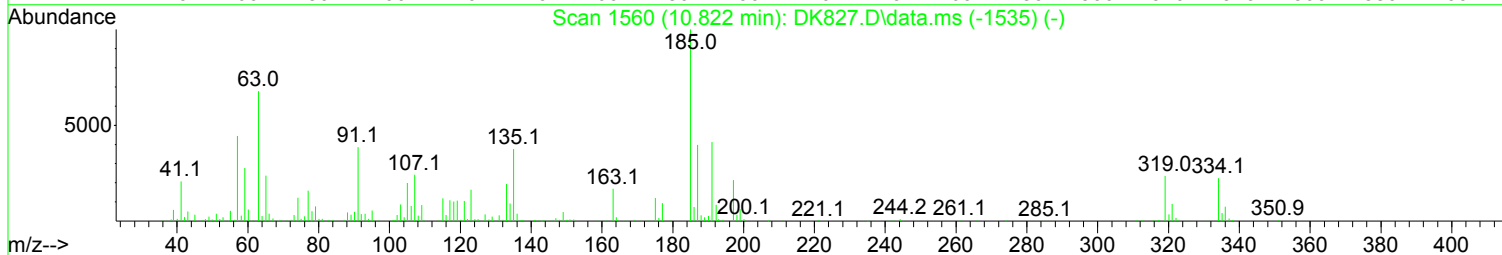
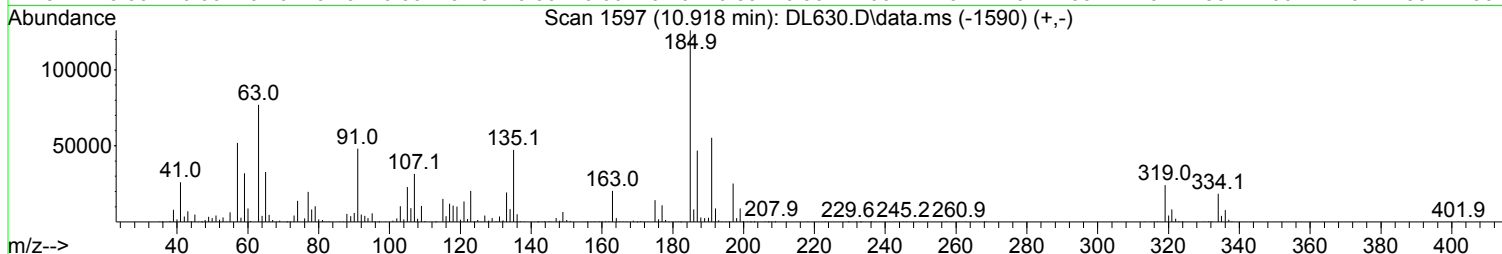
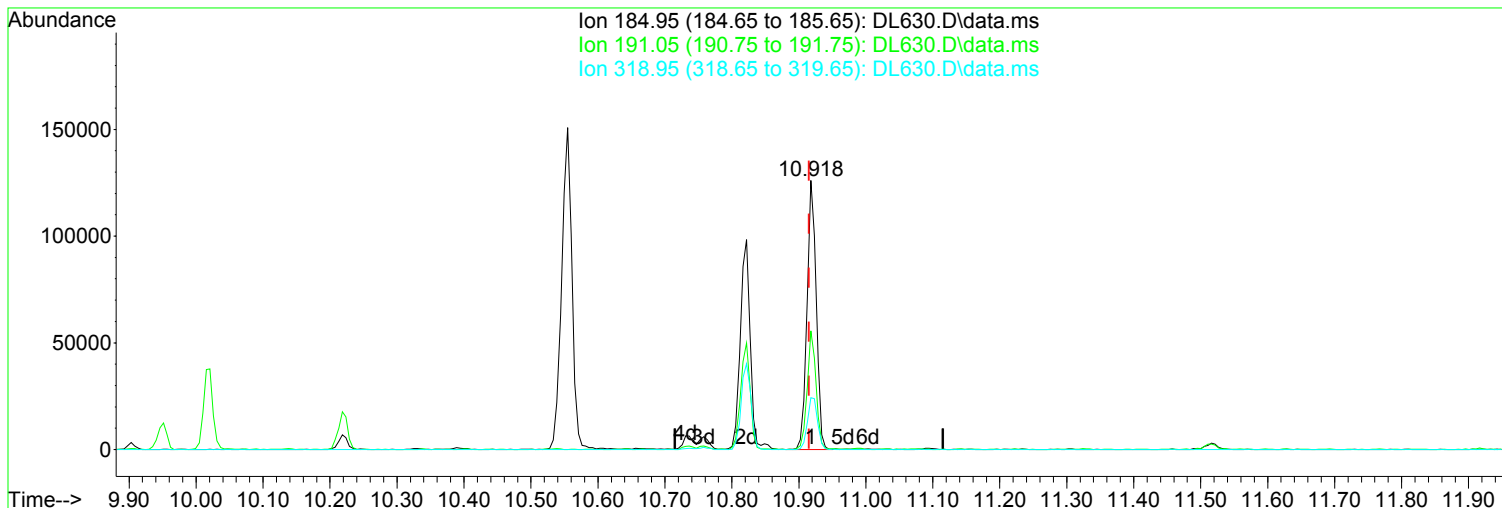
Quant Time: Jan 24 06:47:13 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



TIC: DL630.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.918min (+ 0.002) 78.77 ppm

Before

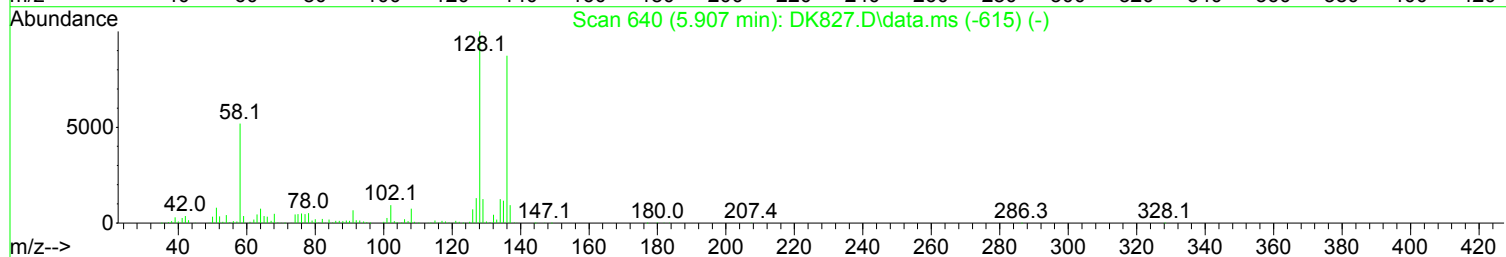
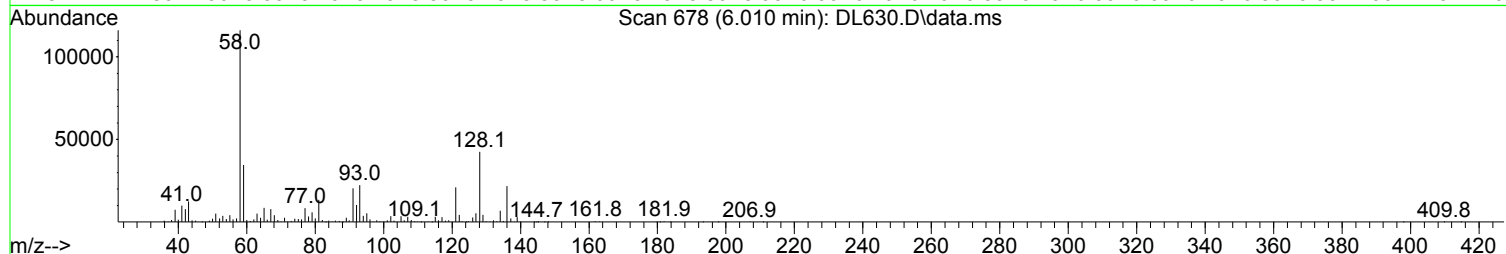
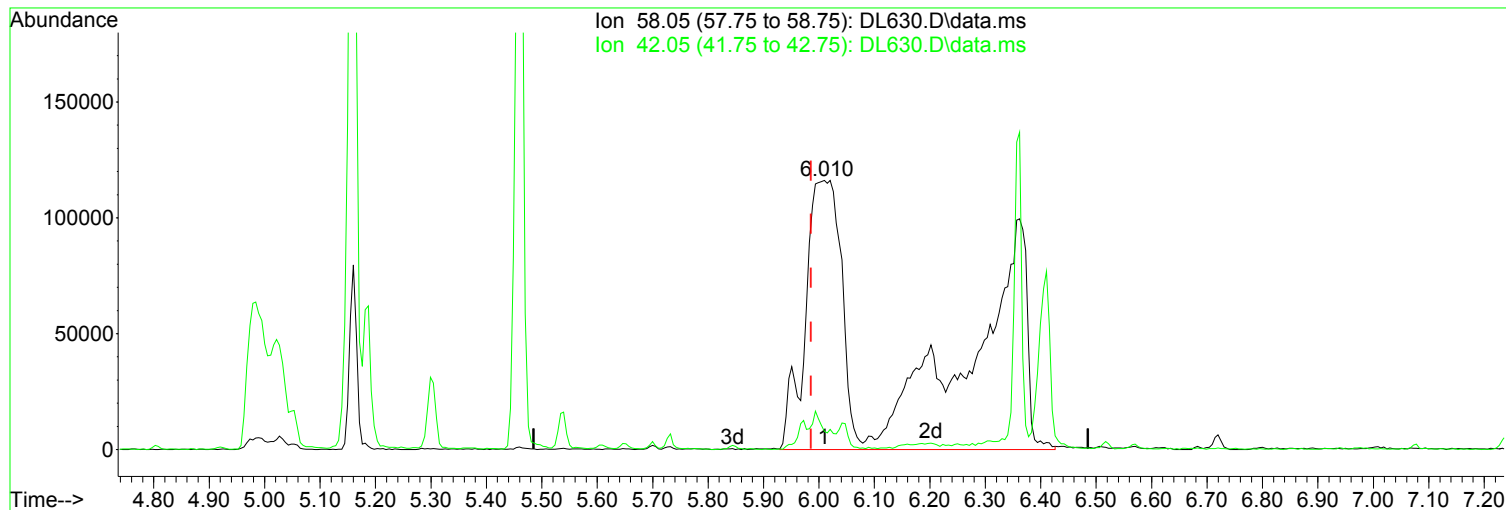
response 120273

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	43.92
318.95	19.40	19.28
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL630.D  
Acq On : 23 Jan 2018 3:13 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.024) 112.05 ppm m

After

response 1227256

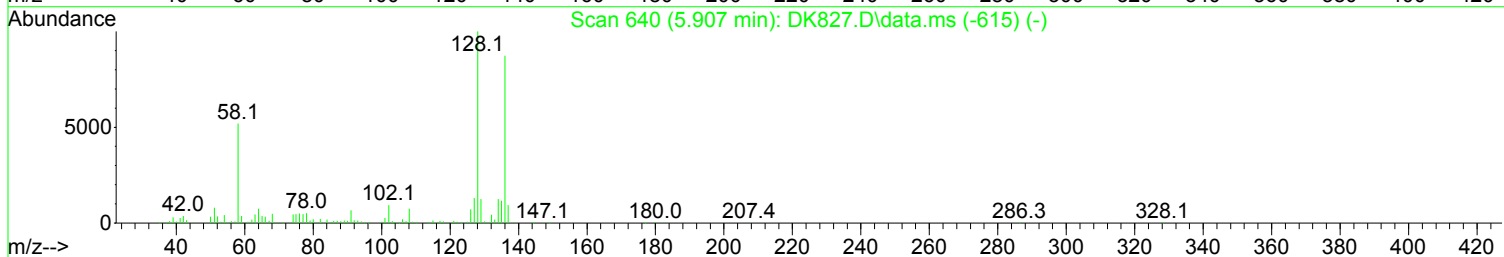
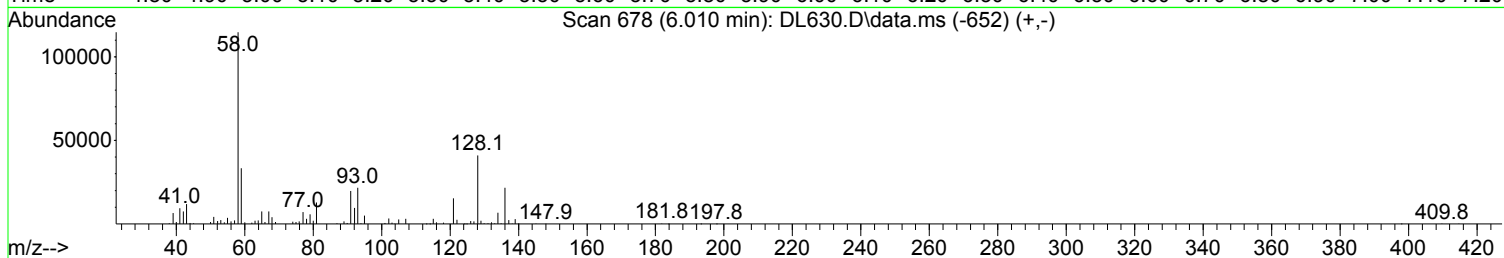
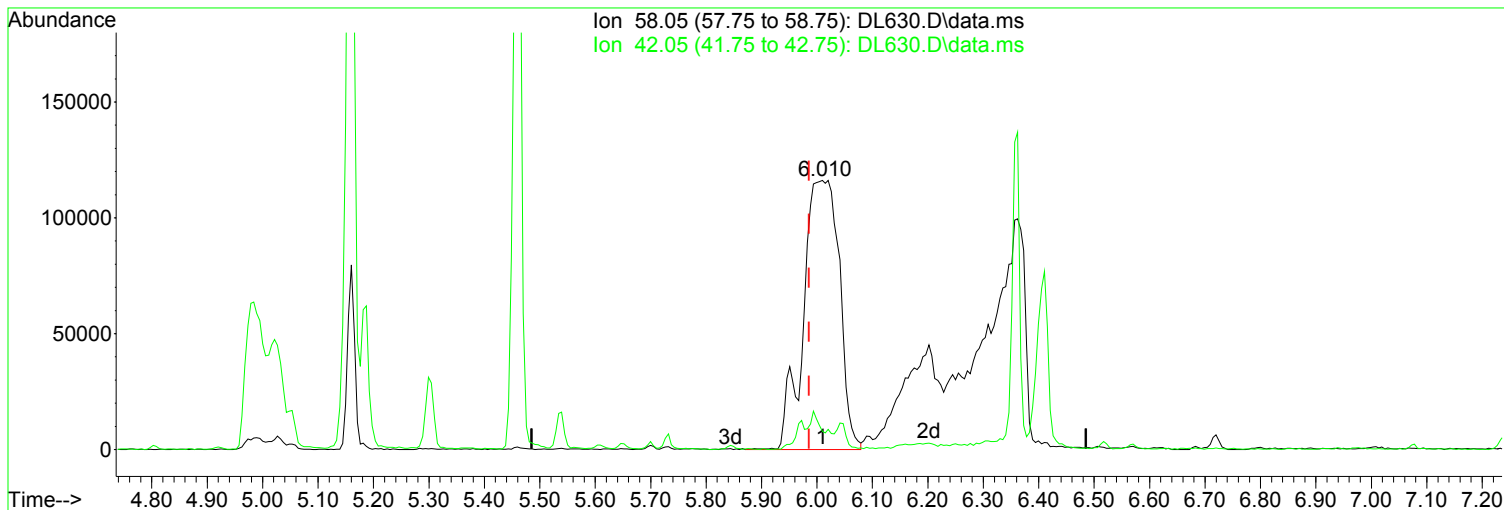
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	6.82
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.024) 48.04 ppm

Before

response 526188

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	6.50
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.802	152	167515	40.00	ppm	0.00
33) d8-Naphthalene	5.972	136	644609	40.00	ppm	0.00
57) d10-Acenaphthene	7.676	164	305148	40.00	ppm	0.00
91) d10-Phenanthrene	9.150	188	515397	40.00	ppm	0.00
117) d12-Chrysene	12.445	240	480318	40.00	ppm	0.00
135) d12-Perylene	15.383	264	475892	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.740	112	655802	112.25	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	56.13%
12) SURR2,PHENOL-D6	4.477	99	827950	118.36	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	59.18%
34) SURR4,NITROBENZENE-D5	5.299	82	600495	103.25	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	103.25%
63) SURR5,2-FLUOROBIPHENYL	7.014	172	1267259	111.02	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	111.02%
88) SURR3,2,4,6-TRIBROMOPH...	8.461	330	179159	76.56	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	38.28%
124) SURR6,TERPHENYL-D14	10.849	244	1258979	119.51	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	119.51%

Target Compounds						Qvalue
2) Pyridine	2.757	79	667290	115.469	ppm	99
3) N-Nitrosodimethylamine	2.725	74	346028	117.916	ppm	97
4) 2-Picoline	3.302	93	706723	114.243	ppm	99
5) N-Nitrosomethylamine	3.376	42	245942	108.583	ppm	95
6) Methyl Methansulfonate	3.606	80	282038	95.622	ppm	99
8) N-Nitrosodiethylamine	3.916	102	369864	115.379	ppm	96
9) Ethyl Mathanesulfonate	4.145	79	444784	110.281	ppm	97
10) Benzaldehyde	4.434	106	406612	106.451	ppm	97
11) Aniline	4.525	93	1159728	115.311	ppm	99
13) Phenol	4.493	94	798242	116.742	ppm	99
14) bis(2-Clethyl)Ether	4.567	93	585856	115.155	ppm	97
15) Pentachloroethane	4.567	117	232743	115.909	ppm	94
16) 2-Chlorophenol	4.626	128	670542	119.374	ppm	97
17) 1,3-Diclbzene	4.754	146	701022	117.301	ppm	97
18) 1,4-Dichlorobenzene	4.818	146	716882	119.361	ppm	99
19) 1,2-Diclbzene	4.952	146	675643	118.291	ppm	98
20) Benzyl Alcohol	4.920	79	490021	113.146	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.984	99	437228	124.192	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.032	45	525648	109.411	ppm	98
23) 2-Methylphenol	5.027	108	599344	119.163	ppm	98
24) 3+4-Methylphenol	5.166	108	641387	121.799	ppm	93
25) Acetophenone	5.160	105	846367	118.166	ppm	95
26) N-Nitroso-Di-n-propyla...	5.160	70	422154	115.388	ppm	97
27) N-Nitrosopyrrolidine	5.155	100	352186	125.355	ppm	73
28) N-Nitrosomorpholine	5.182	56	310432	113.081	ppm	98
29) o-Toluidine	5.192	106	1023490	122.967	ppm	87
30) Hexachloroethane	5.256	117	261404	120.706	ppm	90
31) o,o,o-Triethylphosphor...	5.700	198	271758	116.383	ppm	99
32) Alpha-terpinol	5.993	121	225421	124.174	ppm	99
35) Nitrobenzene	5.321	77	612735	104.369	ppm	99
36) N-Nitrosopiperidine	5.459	42	301223	105.646	ppm	95
37) Isophorone	5.540	82	1111727	111.346	ppm	97
38) 2-Nitrophenol	5.609	139	327729	108.808	ppm	98

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 2,4-Dimethylphenol	5.652	107	623403	113.736	ppm	95
40) bis(-2-Chloroethoxy)Me...	5.732	93	662183	110.289	ppm	97
41) Benzoic Acid	5.758	105	311038	76.876	ppm	99
42) 2,4-Dichlorophenol	5.844	162	496798	115.181	ppm	97
43) a,a-Dimethylphenethyla...	6.010	58	1227256m	112.045	ppm	
44) 1,2,4-Trichlorobenzene	5.913	180	521707	108.781	ppm	99
45) Naphthalene	5.993	128	1816947	111.648	ppm	97
46) 4-Chloroaniline	6.047	127	899383	113.010	ppm	99
47) 2,6-Dichlorophenol	6.052	162	531913	113.785	ppm	97
48) Hexachlorobutadiene	6.100	225	257906	97.948	ppm	99
49) Hexachloropropene	6.074	213	305801	97.219	ppm	99
50) 4-Chloro-3-methylphenol	6.517	107	489084	116.809	ppm	98
51) N-N-di-n-butylamine	6.362	84	375859	105.917	ppm	97
52) Caprolactam	6.410	113	203004	126.171	ppm	91
53) p-Phenylenediamine	6.399	80	24702	111.641	ppm	# 75
54) Safrole	6.570	162	534569	116.052	ppm	98
55) 2-Methylnaphthalene	6.656	142	1209726	116.517	ppm	99
56) 1-Methylnaphthalene	6.757	142	1140922	117.497	ppm	98
58) Hexachlorocyclopentadiene	6.805	237	279161	97.774	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.821	216	481460	102.966	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.099	216	465363	105.292	ppm	99
61) 2,4,6-Trichlorophenol	6.934	196	316800	108.335	ppm	97
62) 2,4,5-Trichlorophenol	6.982	196	323214	106.539	ppm	97
64) Isosafrole	7.078	104	201453	104.639	ppm	# 19
65) 1,1'-Biphenyl	7.115	154	1432472	113.218	ppm	97
66) 2-Chloronaphthalene	7.136	162	1056096	113.000	ppm	98
67) 2-Nitroaniline	7.238	65	246339	101.847	ppm	96
68) 1,4-Naphthoquinone	7.313	158	332057	111.881	ppm	84
69) m-Dinitrobenzene	7.452	168	176467	101.960	ppm	96
70) Acenaphthylene	7.542	152	1750828	117.832	ppm	100
71) Dimethyl phthalate	7.414	163	1151543	111.697	ppm	100
72) 2,6-Dinitrotoluene	7.478	165	268581	116.347	ppm	89
73) Acenaphthene	7.713	153	1195101	117.739	ppm	96
74) 3-Nitroaniline	7.649	138	318680	114.467	ppm	95
75) 2,4-Dinitrophenol	7.751	184	84996	68.811	ppm	87
76) Dibenzofuran	7.884	168	1440999	110.439	ppm	97
77) 2,4-Dinitrotoluene	7.874	165	352149	106.469	ppm	99
78) 4-Nitrophenol	7.831	65	189770	100.156	ppm	98
79) Pentachlorobenzene	7.841	250	418424	95.410	ppm	98
80) 1-Napthylamine	7.964	143	738076	110.434	ppm	99
81) 2-Napthylamine	8.044	143	1012247	112.579	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.007	232	223301	95.022	ppm	95
83) Fluorene	8.221	166	1174108	108.985	ppm	98
84) 4-Chlorophenyl-phenyle...	8.215	204	465531	100.523	ppm	98
85) Diethylphthalate	8.109	149	1188077	109.091	ppm	98
86) 4-Nitroaniline	8.258	138	351133	115.254	ppm	97
87) 5-Nitro-o-toluidine	8.247	152	364307	114.011	ppm	99
89) Sulfotepp	8.488	322	206076	85.393	ppm	98
90) Octachlorocyclopentene	8.466	307	173858	82.032	ppm	99
92) Thionazin	8.189	107	201359	128.648	ppm	100
93) 4,6-Dinitro-2-methylph...	8.279	198	170525	93.181	ppm	96
94) Diphenylamine	8.344	169	1772813	236.347	ppm	100
95) 1,2 Diphenylhydrazine	8.376	77	1014744	112.120	ppm	98
96) N-Nitrosodiphenylamine	8.344	169	1772869	236.354	ppm	100
97) 1,3,5-Trinitrobenzene	8.621	74	146466	92.972	ppm	# 1
98) Diallate	8.616	86	406210	110.954	ppm	87

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL630.D  
 Acq On : 23 Jan 2018 3:13 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

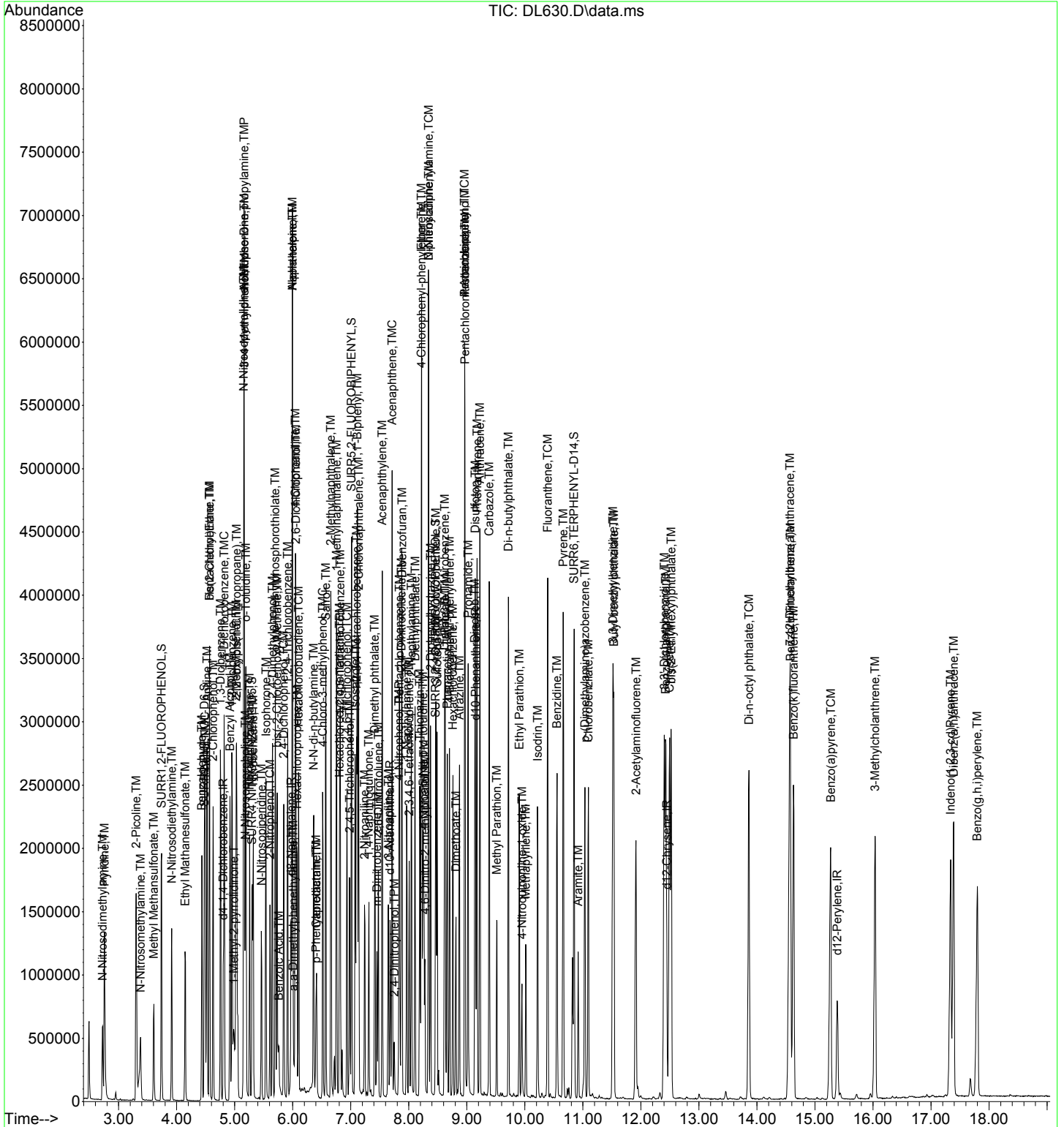
Quant Time: Jan 24 06:47:21 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.627	121	219696	125.840	ppm	87
100) Phenacetin	8.664	108	624001	121.167	ppm	100
101) 4-Bromophenyl-phenylether	8.701	248	275286	99.925	ppm	99
102) Hexachlorobenzene	8.760	284	344739	95.629	ppm	99
103) Dimethoate	8.814	87	291472	90.752	ppm	99
104) Atrazine	8.872	215	166532	107.246	ppm	98
105) Pentachlorophenol	8.963	266	158552	73.119	ppm	96
106) 4-Aminobiphenyl	8.963	169	1208401	120.976	ppm	99
107) Pentachloronitrobenzene	8.968	237	110942	100.446	ppm	98
108) Pronamide	9.022	173	525672	126.270	ppm	98
109) Dinoseb	9.139	211	225684	85.190	ppm	99
110) Disulfoton	9.145	88	403622	114.617	ppm	99
111) Phenanthrene	9.177	178	1628565	119.611	ppm	99
112) Anthracene	9.225	178	1634238	120.190	ppm	99
113) Carbazole	9.385	167	1693027	121.908	ppm	99
114) Di-n-butylphthalate	9.716	149	2075923	121.527	ppm	98
115) 4-Nitroquinonline-1-oxide	9.951	190	110956	90.827	ppm	99
116) Fluoranthene	10.395	202	1697072	122.210	ppm	99
118) Methyl Parathion	9.513	109	245866	103.261	ppm	91
119) Ethyl Parathion	9.903	97	208109	117.646	ppm	99
120) Methapyrilene	10.015	58	304850	94.234	ppm	99
121) Isodrin	10.218	193	166580	132.054	ppm	94
122) Benzidine	10.555	184	1137425	125.954	ppm	98
123) Pyrene	10.662	202	1751366	134.791	ppm	99
125) Aramite	10.918	185	222839m	145.940	ppm	
126) p-(Dimethylamino)azobe...	11.035	120	568247	141.778	ppm	99
127) Chlorobenzilate	11.094	139	531536	136.367	ppm	98
128) Butyl benzyl phthalate	11.532	149	955488	131.149	ppm	98
129) 3,3-Dimethylbenzidine	11.516	212	1229932	120.129	ppm	99
130) 2-Acetylaminofluorene	11.917	181	748151	137.060	ppm	99
131) 3,3'-Dichlorobenzidine	12.403	252	770688	112.403	ppm	99
132) Benzo(a)anthracene	12.424	228	1604475	117.630	ppm	98
133) Chrysene	12.494	228	1484843	117.383	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.520	149	1299742	128.744	ppm	98
136) Di-n-octyl phthalate	13.861	149	2262373	137.092	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.566	256	793830	117.463	ppm	97
138) Benzo(b)Fluoranthene	14.577	252	1681686	120.887	ppm	98
139) Benzo(k)fluoranthene	14.630	252	1569221	117.983	ppm	99
140) Benzo(a)pyrene	15.271	252	1465930	123.447	ppm	98
141) 3-Methylcholanthrene	16.035	268	877762	124.389	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.338	276	1342146	123.613	ppm	99
143) Dibenz(a,h)anthracene	17.391	278	1457245	118.508	ppm	99
144) Benzo(g,h,i)perylene	17.797	276	1254674	145.246	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

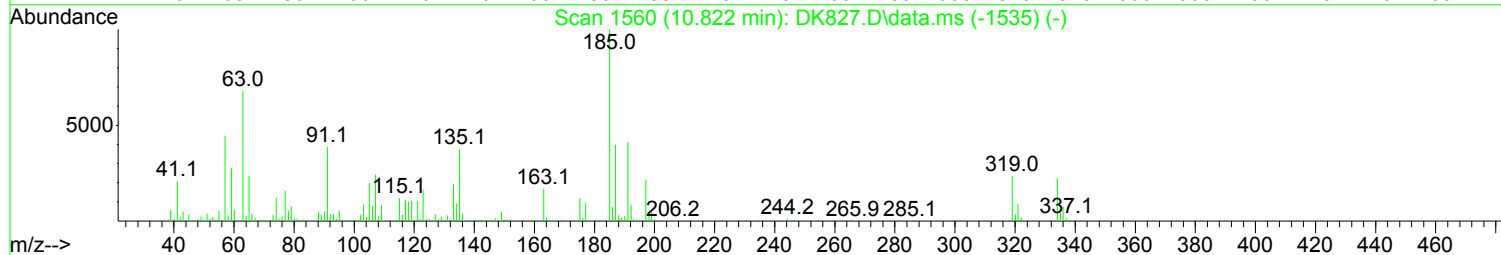
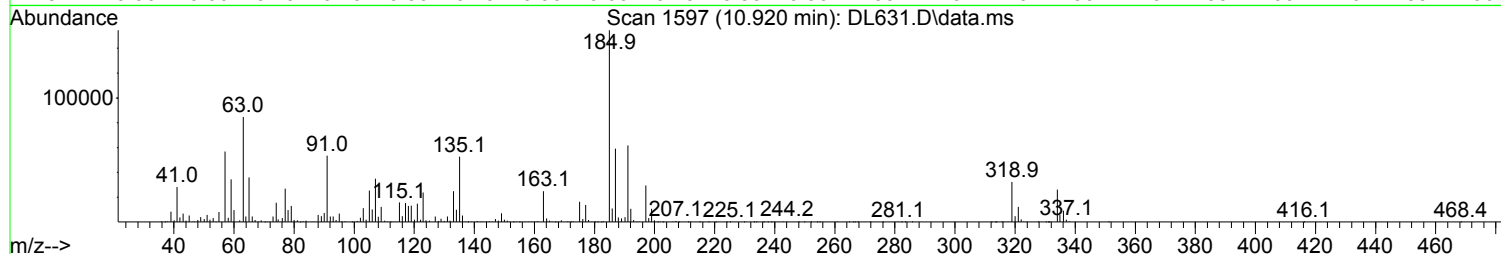
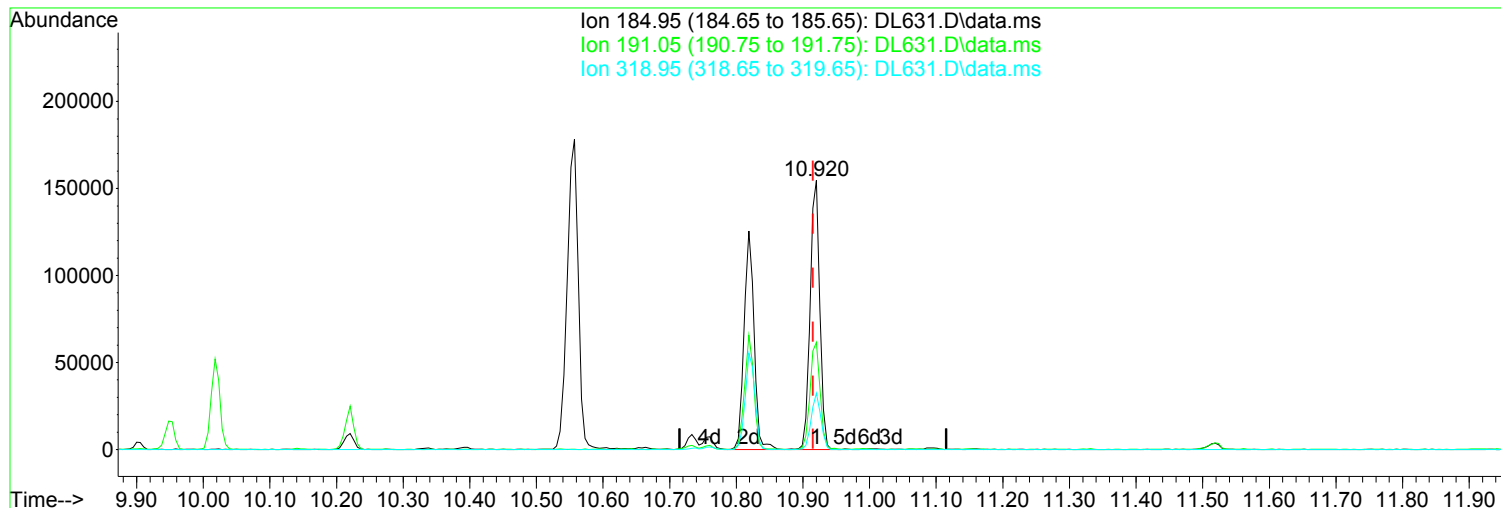
Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL630.D  
Acq On : 23 Jan 2018 3:13 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 24 06:47:21 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.920min (+ 0.005) 191.26 ppm m

After

response 289116

Split Peak.

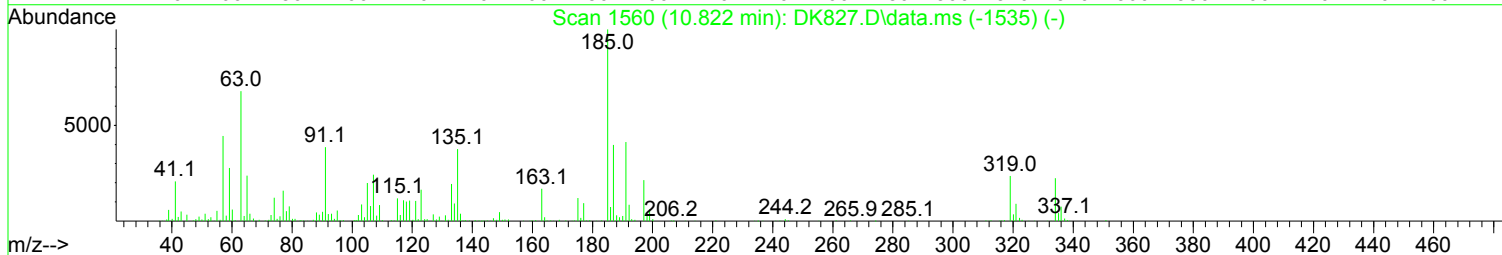
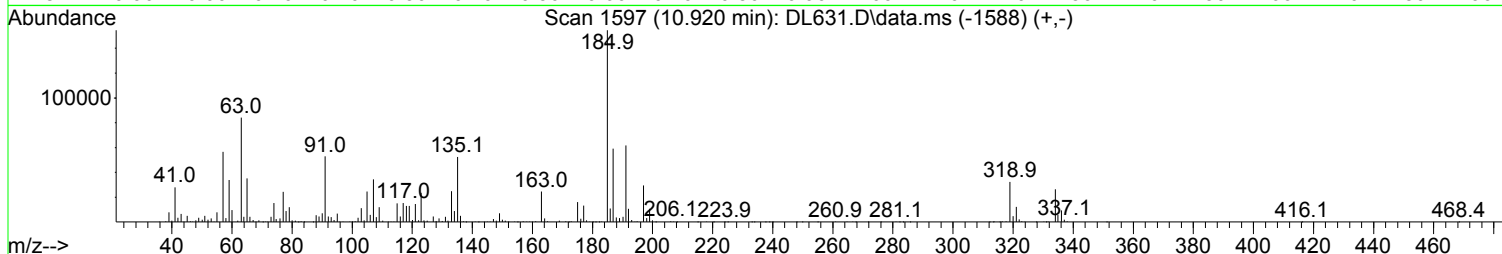
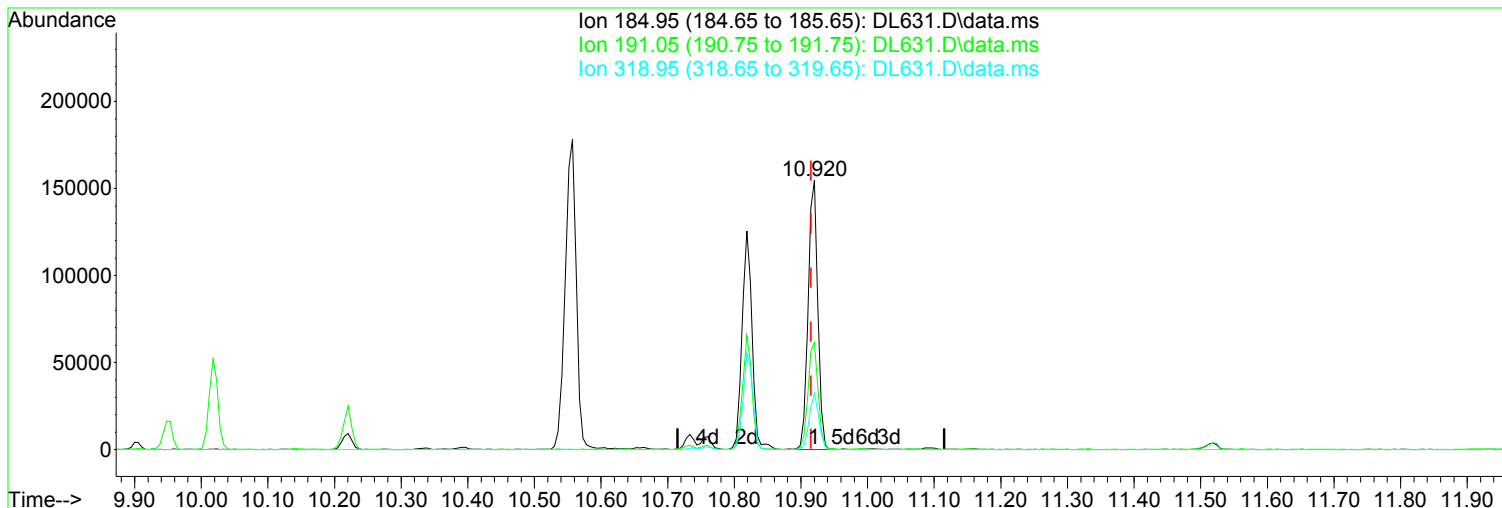
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	39.87
318.95	19.40	20.91
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



TIC: DL631.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.920min (+ 0.005) 103.57 ppm

Before

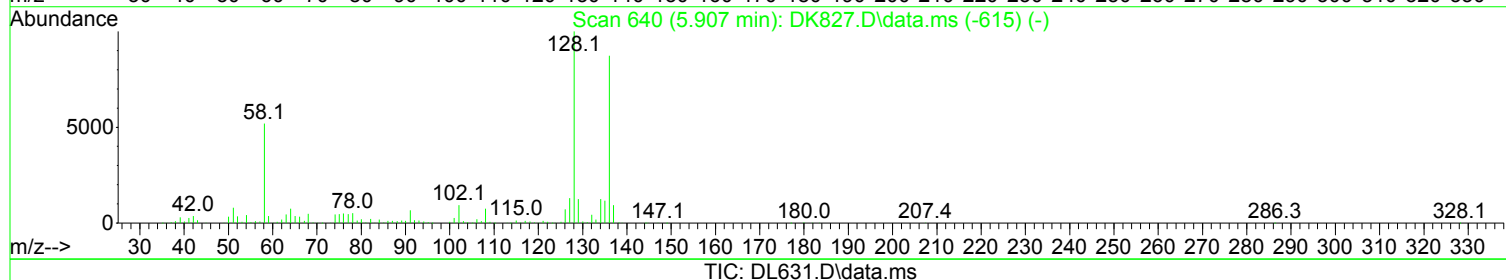
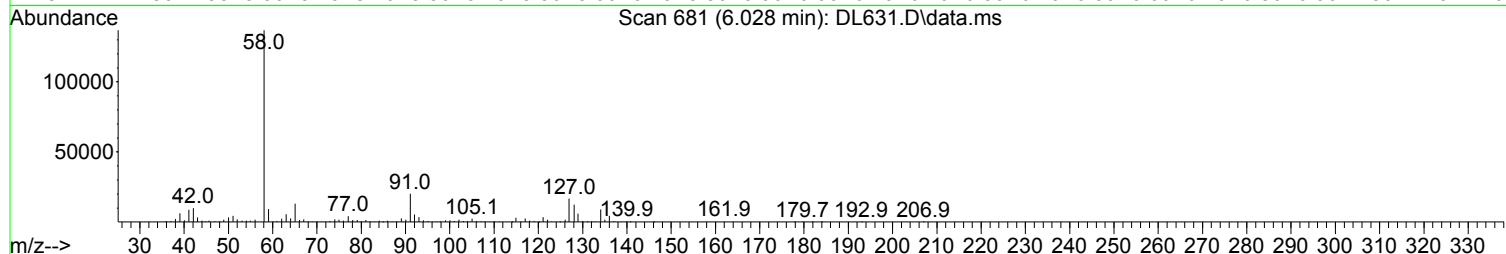
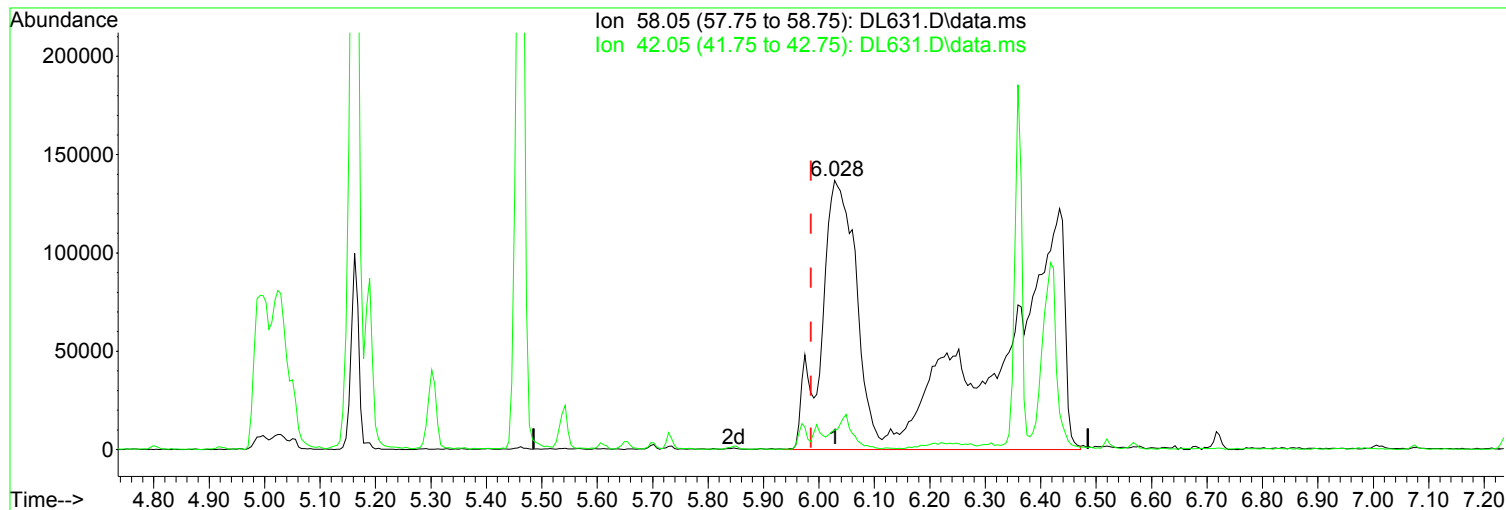
response 156554

Ion	Exp%	Act%
184.95	100.00	100.00
191.05	44.70	39.71
318.95	19.40	20.91
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.028min (+ 0.042) 148.11 ppm m

After

response 1560638

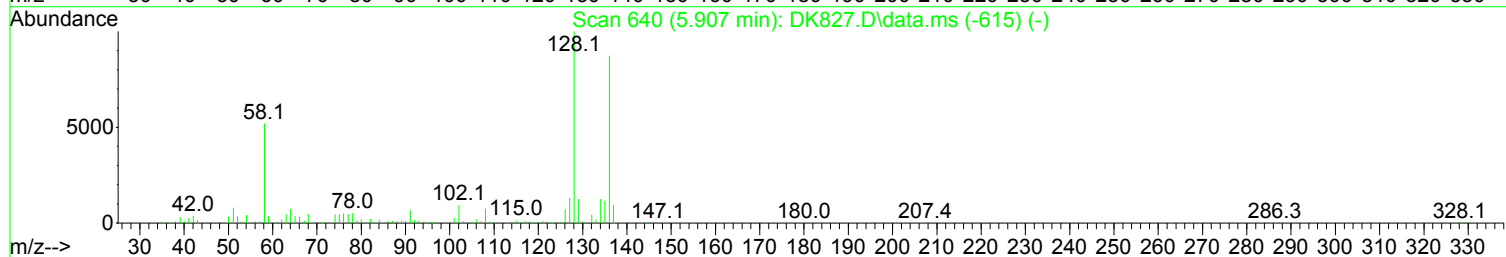
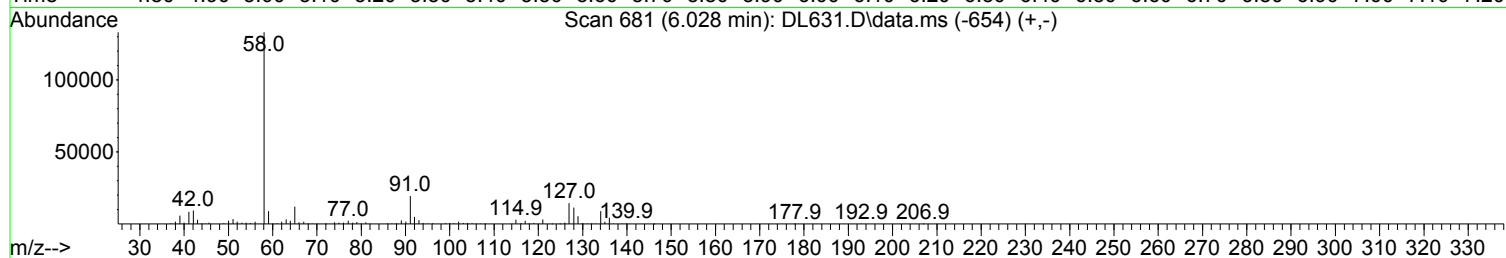
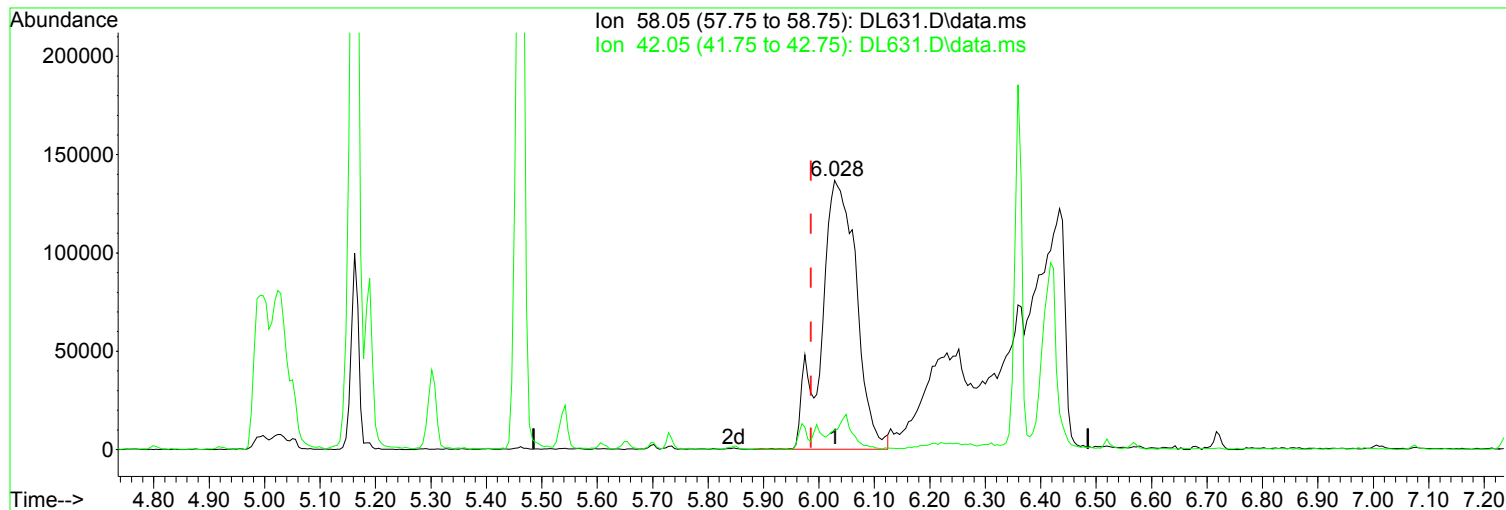
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	7.20
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.028min (+ 0.042) 57.06 ppm

Before

response 601226

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	9.80	6.99
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.805	152	162870	40.00	ppm	0.00
33) d8-Naphthalene	5.969	136	620126	40.00	ppm	0.00
57) d10-Acenaphthene	7.678	164	298903	40.00	ppm	0.00
91) d10-Phenanthrene	9.147	188	526994	40.00	ppm	0.00
117) d12-Chrysene	12.448	240	475502	40.00	ppm	0.00
135) d12-Perylene	15.385	264	483029	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.737	112	882038	155.28	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	77.64%
12) SURR2,PHENOL-D6	4.479	99	1101943	162.02	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	81.01%
34) SURR4,NITROBENZENE-D5	5.301	82	797655	142.56	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	142.56%#
63) SURR5,2-FLUOROBIPHENYL	7.016	172	1697458	151.81	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	151.81%#
88) SURR3,2,4,6-TRIBROMOPH...	8.463	330	229625	100.18	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	50.09%
124) SURR6,TERPHENYL-D14	10.851	244	1638464	157.11	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	157.11%#

Target Compounds						Qvalue
2) Pyridine	2.754	79	884601	157.438	ppm	100
3) N-Nitrosodimethylamine	2.722	74	454710	159.370	ppm	97
4) 2-Picoline	3.299	93	936643	155.729	ppm	98
5) N-Nitrosomethylamine	3.379	42	319105	144.902	ppm	97
6) Methyl Methansulfonate	3.608	80	377785	131.737	ppm	98
8) N-Nitrosodiethylamine	3.913	102	498690	160.004	ppm	92
9) Ethyl Mathanesulfonate	4.148	79	611212	155.868	ppm	98
11) Aniline	4.522	93	1552835	158.801	ppm	97
13) Phenol	4.490	94	1073407	161.462	ppm	97
14) bis(2-Clethyl)Ether	4.564	93	779718	157.631	ppm	99
15) Pentachloroethane	4.564	117	313378	160.518	ppm	97
16) 2-Chlorophenol	4.628	128	900344	164.856	ppm	99
17) 1,3-Diclbzene	4.757	146	929079	159.895	ppm	98
18) 1,4-Dichlorobenzene	4.821	146	939939	160.964	ppm	97
19) 1,2-Diclbzene	4.954	146	902151	162.452	ppm	100
20) Benzyl Alcohol	4.922	79	659114	156.529	ppm	99
21) 1-Methyl-2-pyrrolidinone	4.992	99	562842	164.431	ppm	99
22) 2,2'-oxybis(1-Chloropr...	5.029	45	693761	148.521	ppm	95
23) 2-Methylphenol	5.034	108	806707	164.966	ppm	97
24) 3+4-Methylphenol	5.168	108	939182	183.437	ppm	89
25) Acetophenone	5.163	105	1118710	160.643	ppm	94
26) N-Nitroso-Di-n-propyla...	5.163	70	561437	157.835	ppm	96
27) N-Nitrosopyrrolidine	5.163	100	469124	171.739	ppm	# 54
28) N-Nitrosomorpholine	5.189	56	408951	153.217	ppm	95
29) o-Toluidine	5.195	106	1350414	166.873	ppm	78
30) Hexachloroethane	5.259	117	350083	166.264	ppm	84
31) o,o,o-Triethylphosphor...	5.702	198	358581	157.945	ppm	92
32) Alpha-terpinol	5.996	121	299873	169.898	ppm	99
35) Nitrobenzene	5.323	77	813135	143.973	ppm	95
36) N-Nitrosopiperidine	5.462	42	408406	148.893	ppm	95
37) Isophorone	5.542	82	1465663	152.590	ppm	97
38) 2-Nitrophenol	5.611	139	447925	154.585	ppm	96
39) 2,4-Dimethylphenol	5.654	107	823762	156.224	ppm	96

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) bis(-2-Chloroethoxy)Me...	5.729	93	883370	152.937	ppm	98
41) Benzoic Acid	5.766	105	359263	92.301	ppm	99
42) 2,4-Dichlorophenol	5.846	162	672055	161.966	ppm	96
43) a,a-Dimethylphenethyla...	6.028	58	1560638m	148.107	ppm	
44) 1,2,4-Trichlorobenzene	5.910	180	697378	151.151	ppm	99
45) Naphthalene	5.990	128	2389517	152.628	ppm	97
46) 4-Chloroaniline	6.049	127	1178254	153.896	ppm	98
47) 2,6-Dichlorophenol	6.055	162	713249	158.599	ppm	99
48) Hexachlorobutadiene	6.103	225	339982	134.216	ppm	99
49) Hexachloropropene	6.071	213	412074	136.176	ppm	99
50) 4-Chloro-3-methylphenol	6.519	107	649338	161.205	ppm	96
51) N-N-di-n-butylamine	6.359	84	498363	145.983	ppm	98
52) Caprolactam	6.418	113	273606	176.765	ppm	90
53) p-Phenylenediamine	6.402	80	28596	134.342	ppm	94
54) Safrole	6.567	162	714805	161.306	ppm	99
55) 2-Methylnaphthalene	6.658	142	1604686	160.661	ppm	99
56) 1-Methylnaphthalene	6.754	142	1478018	158.223	ppm	98
58) Hexachlorocyclopentadiene	6.802	237	373827	133.666	ppm	97
59) 1,2,4,5-Tetrachloroben...	6.818	216	643731	140.546	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.096	216	626398	144.689	ppm	99
61) 2,4,6-Trichlorophenol	6.936	196	422271	147.420	ppm	98
62) 2,4,5-Trichlorophenol	6.979	196	427485	143.853	ppm	96
64) Isosafrole	7.075	104	266078	141.094	ppm	# 29
65) 1,1'-Biphenyl	7.112	154	1872045	151.052	ppm	96
66) 2-Chloronaphthalene	7.139	162	1408081	153.809	ppm	97
67) 2-Nitroaniline	7.240	65	330494	139.495	ppm	95
68) 1,4-Naphthoquinone	7.310	158	428359	147.344	ppm	78
69) m-Dinitrobenzene	7.454	168	247849	146.195	ppm	96
70) Acenaphthylene	7.545	152	2297818	157.876	ppm	99
71) Dimethyl phthalate	7.417	163	1556370	154.118	ppm	99
72) 2,6-Dinitrotoluene	7.475	165	361281	159.773	ppm	97
73) Acenaphthene	7.716	153	1583607	159.273	ppm	96
74) 3-Nitroaniline	7.652	138	434064	159.170	ppm	90
75) 2,4-Dinitrophenol	7.753	184	125180	96.015	ppm	90
76) Dibenzofuran	7.881	168	1895628	148.318	ppm	98
77) 2,4-Dinitrotoluene	7.876	165	488461	150.768	ppm	94
78) 4-Nitrophenol	7.833	65	252806	136.212	ppm	94
79) Pentachlorobenzene	7.838	250	529746	123.318	ppm	98
80) 1-Naphthylamine	7.967	143	993244	151.719	ppm	98
81) 2-Naphthylamine	8.047	143	1339415	152.078	ppm	97
82) 2,3,4,6-Tetrachlorophenol	8.009	232	309148	134.302	ppm	97
83) Fluorene	8.223	166	1542286	146.151	ppm	98
84) 4-Chlorophenyl-phenyle...	8.218	204	616687	135.945	ppm	96
85) Diethylphthalate	8.111	149	1585493	148.623	ppm	98
86) 4-Nitroaniline	8.266	138	478487	160.338	ppm	98
87) 5-Nitro-o-toluidine	8.250	152	495862	158.424	ppm	96
89) Sulfotepp	8.490	322	269325	113.934	ppm	97
90) Octachlorocyclopentene	8.469	307	223631	107.721	ppm	100
92) Thionazin	8.191	107	269429	168.350	ppm	99
93) 4,6-Dinitro-2-methylph...	8.282	198	242065	129.362	ppm	99
94) Diphenylamine	8.341	169	2364256	308.260	ppm	99
95) 1,2 Diphenylhydrazine	8.378	77	1339897	144.789	ppm	96
96) N-Nitrosodiphenylamine	8.341	169	2364256	308.260	ppm	99
97) 1,3,5-Trinirobenzene	8.624	74	207351	128.724	ppm	# 1
98) Diallate	8.618	86	550923	147.170	ppm	100
99) Phorate	8.629	121	299314	167.671	ppm	86

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
 Data File : DL631.D  
 Acq On : 23 Jan 2018 3:42 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

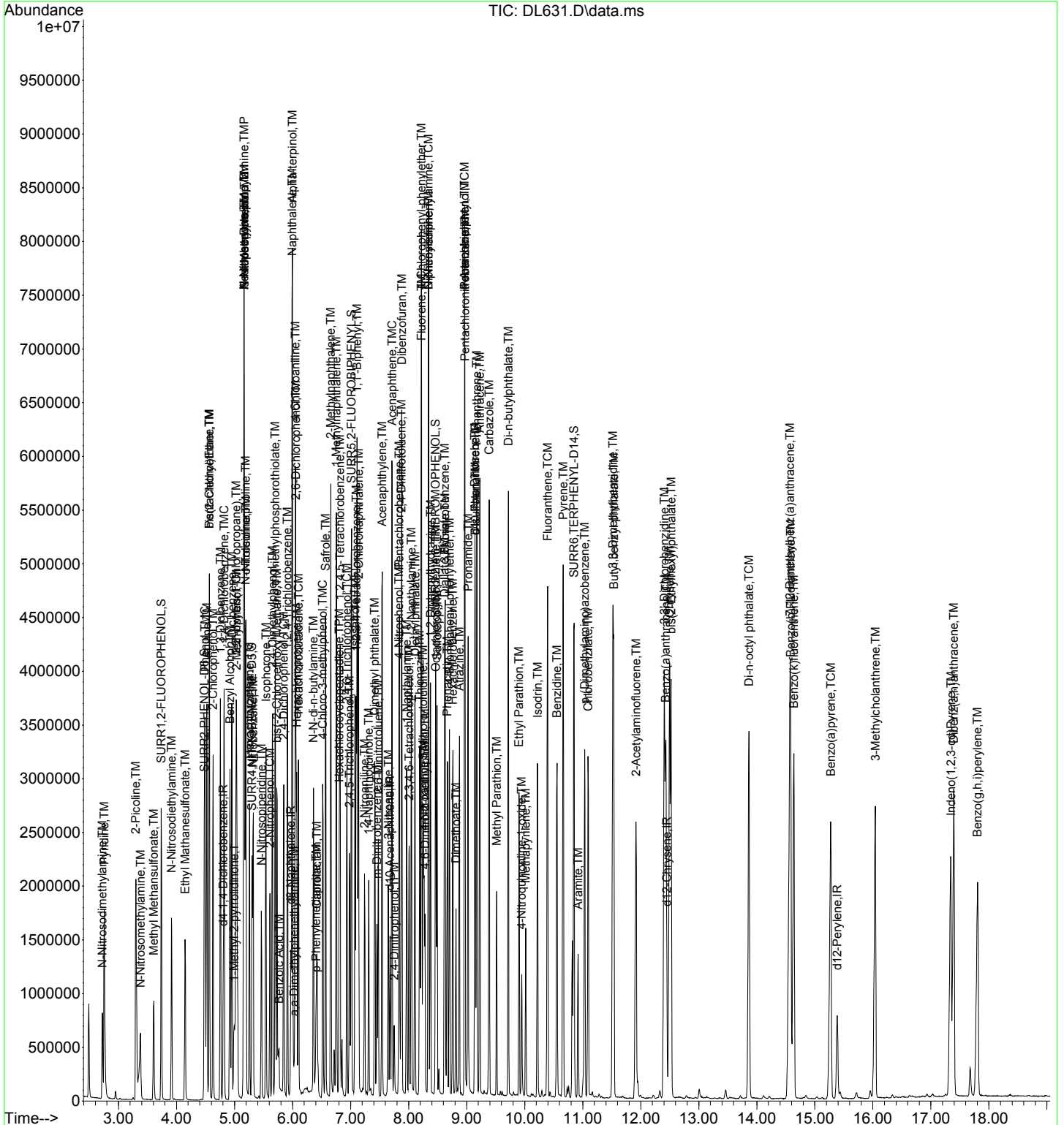
Quant Time: Jan 24 06:47:29 2018  
 Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Wed Jan 24 06:46:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.666	108	822528	156.202	ppm	97
101) 4-Bromophenyl-phenylether	8.704	248	376194	133.548	ppm	97
102) Hexachlorobenzene	8.762	284	460599	124.957	ppm	97
103) Dimethoate	8.816	87	344763	104.982	ppm	97
104) Atrazine	8.875	215	213293	134.337	ppm	96
105) Pentachlorophenol	8.965	266	229887	103.684	ppm	94
106) 4-Aminobiphenyl	8.965	169	1559358	152.676	ppm	98
107) Pentachloronitrobenzene	8.971	237	146391	129.624	ppm	96
108) Pronamide	9.024	173	694195	163.081	ppm	99
109) Dinoseb	9.142	211	320819	118.436	ppm	99
110) Disulfoton	9.147	88	535365	148.683	ppm	98
111) Phenanthrene	9.174	178	2140655	153.762	ppm	98
112) Anthracene	9.227	178	2174955	156.436	ppm	98
113) Carbazole	9.387	167	2267727	159.697	ppm	98
114) Di-n-butylphthalate	9.719	149	2702522	154.727	ppm	97
115) 4-Nitroquinoline-1-oxide	9.948	190	141108	112.967	ppm	93
116) Fluoranthene	10.397	202	2244701	158.089	ppm	99
118) Methyl Parathion	9.516	109	307109	130.289	ppm	97
119) Ethyl Parathion	9.900	97	286192	163.425	ppm	99
120) Methapyrilene	10.018	58	382109	119.312	ppm	96
121) Isodrin	10.221	193	226595	181.449	ppm	99
122) Benzidine	10.557	184	1462158	163.554	ppm	99
123) Pyrene	10.664	202	2309344	179.534	ppm	99
125) Aramite	10.920	185	289116m	191.263	ppm	
126) p-(Dimethylamino)azobe...	11.032	120	741031	186.760	ppm	96
127) Chlorobenzilate	11.091	139	699581	181.297	ppm	93
128) Butyl benzyl phthalate	11.534	149	1277574	177.134	ppm	98
129) 3,3-Dimethylbenzidine	11.518	212	1587818	156.656	ppm	100
130) 2-Acetylaminofluorene	11.919	181	1011426	187.168	ppm	99
131) 3,3'-Dichlorobenzidine	12.405	252	1030091	151.758	ppm	98
132) Benzo(a)anthracene	12.426	228	2141762	158.610	ppm	98
133) Chrysene	12.496	228	1977391	157.905	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.523	149	1738444	173.942	ppm	97
136) Di-n-octyl phthalate	13.863	149	3032536	181.046	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.574	256	1073206	156.456	ppm	97
138) Benzo(b)Fluoranthene	14.584	252	2266633	160.528	ppm	99
139) Benzo(k)fluoranthene	14.638	252	2040268	151.132	ppm	99
140) Benzo(a)pyrene	15.273	252	1982481	164.479	ppm	99
141) 3-Methylcholanthrene	16.042	268	1155171	161.283	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.346	276	1752659	159.037	ppm	99
143) Dibenz(a,h)anthracene	17.394	278	1926802	154.379	ppm	97
144) Benzo(g,h,i)perylene	17.805	276	1613792	208.790	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

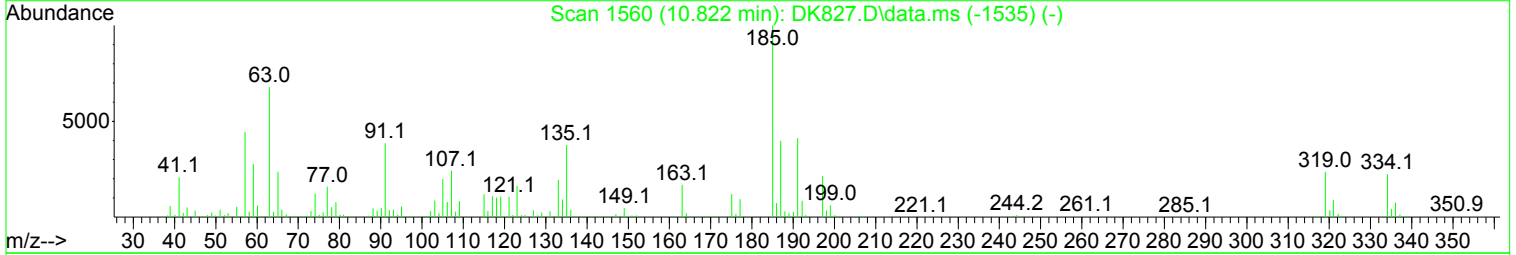
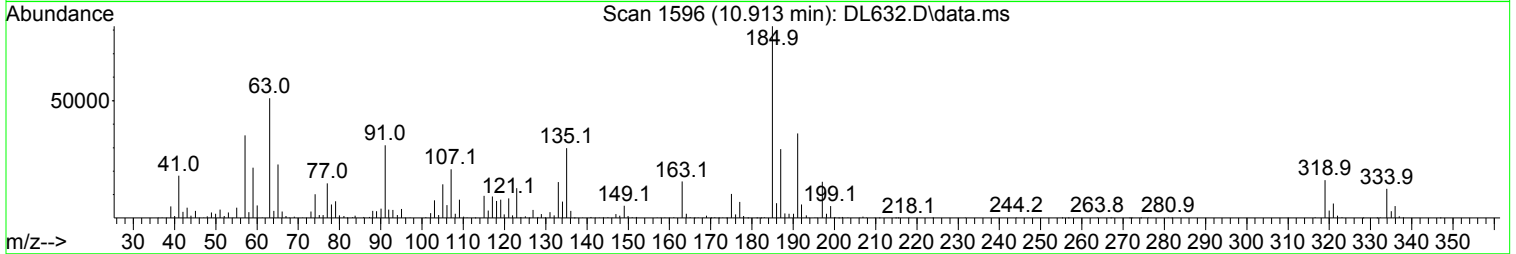
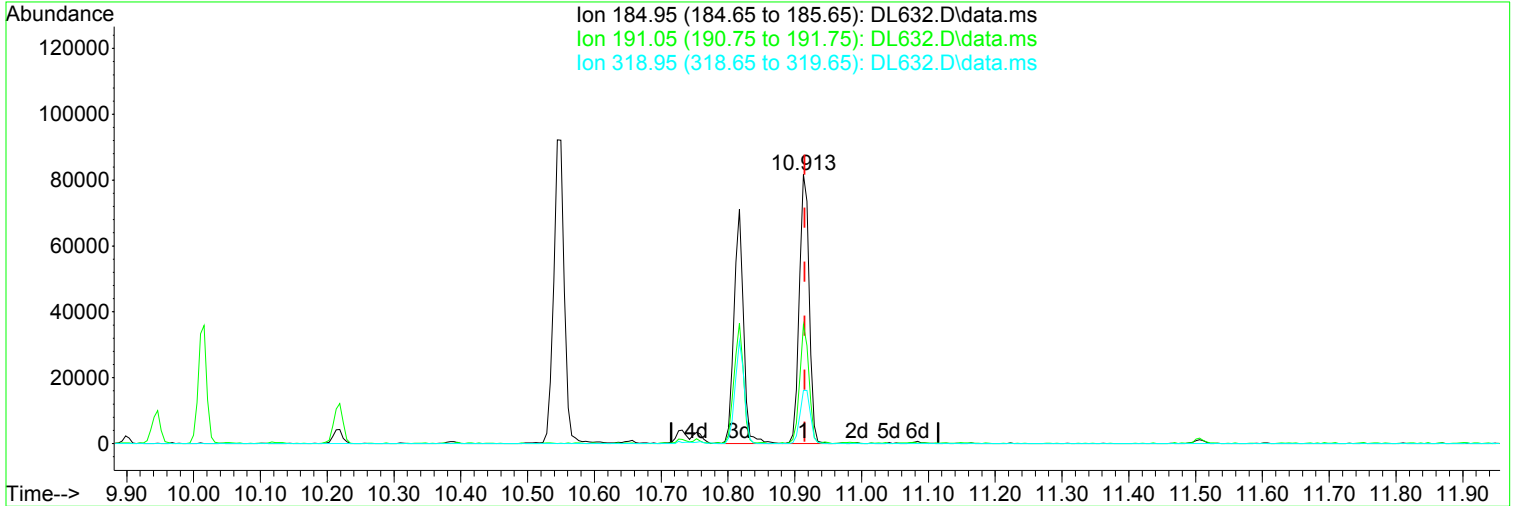
Data Path : I:\ACQUdata\5973A\DATA\012318\  
Data File : DL631.D  
Acq On : 23 Jan 2018 3:42 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 24 06:47:29 2018  
Quant Method : I:\ACQUdata\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 06:46:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL632.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.913min (-0.002) 85.33 ppm m

After

response 153905

Split Peak.

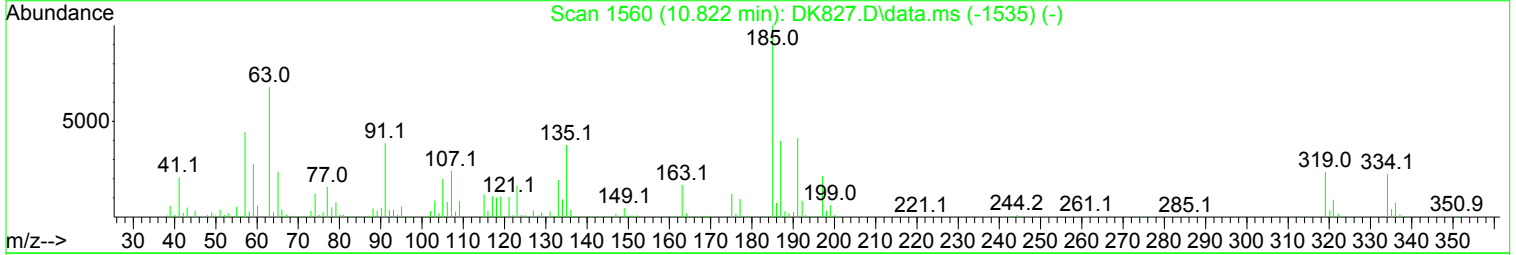
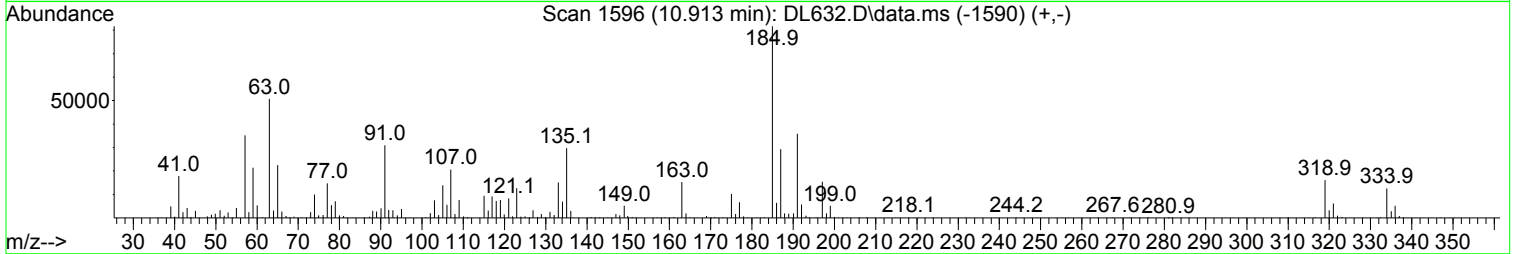
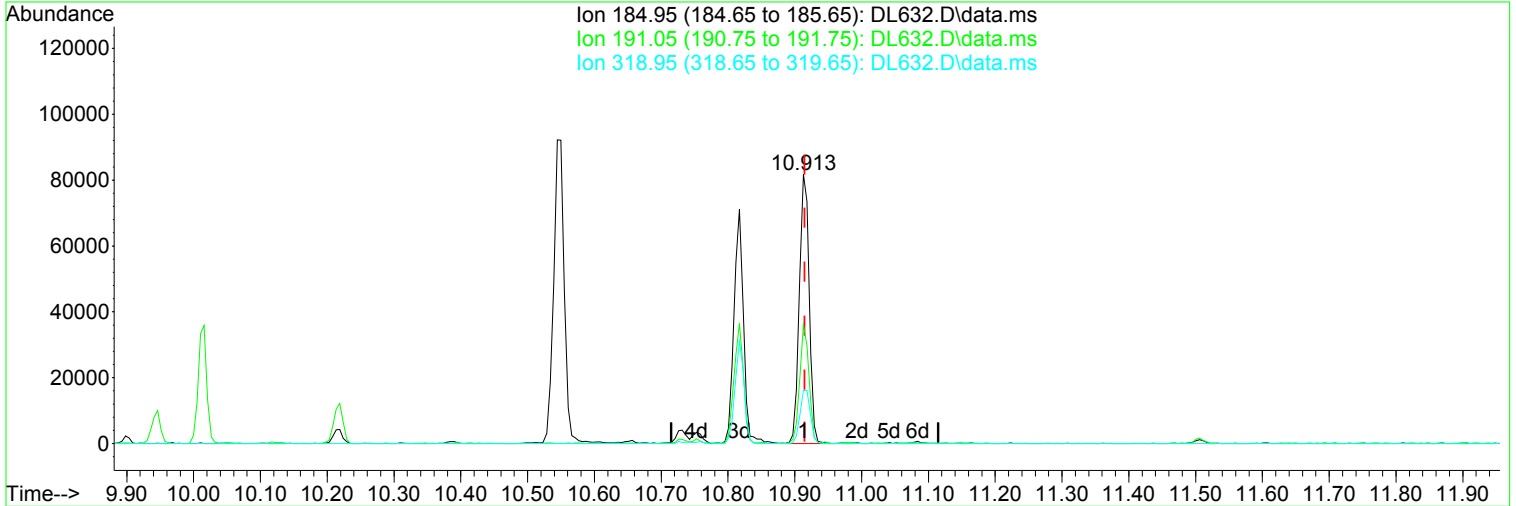
Ion	Exp%	Act%
184.95	100.00	100.00
191.05	41.10	44.11
318.95	21.00	19.73
0.00	0.00	0.00

01/24/18



Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration

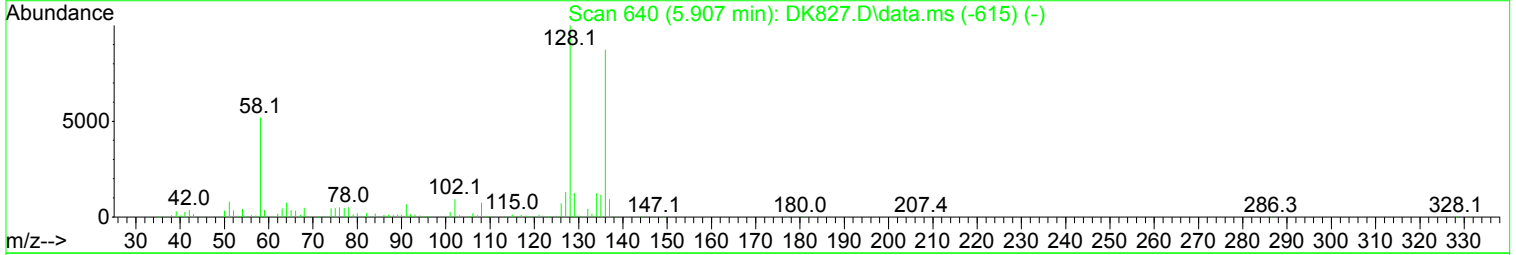
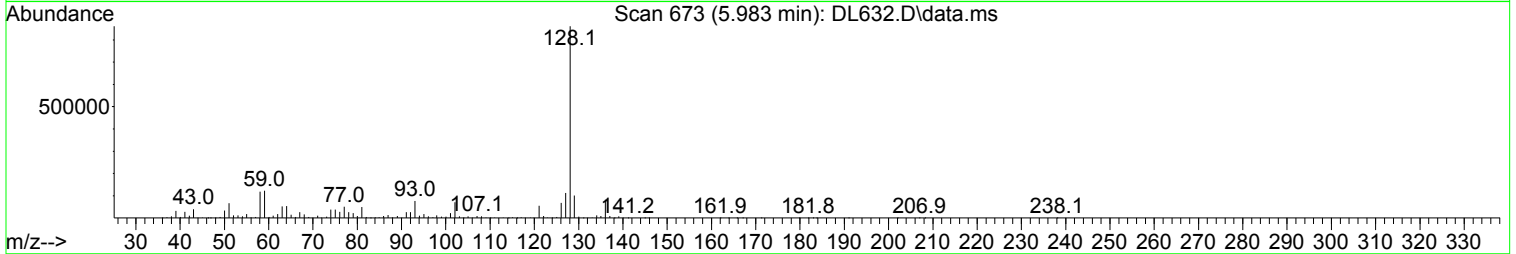
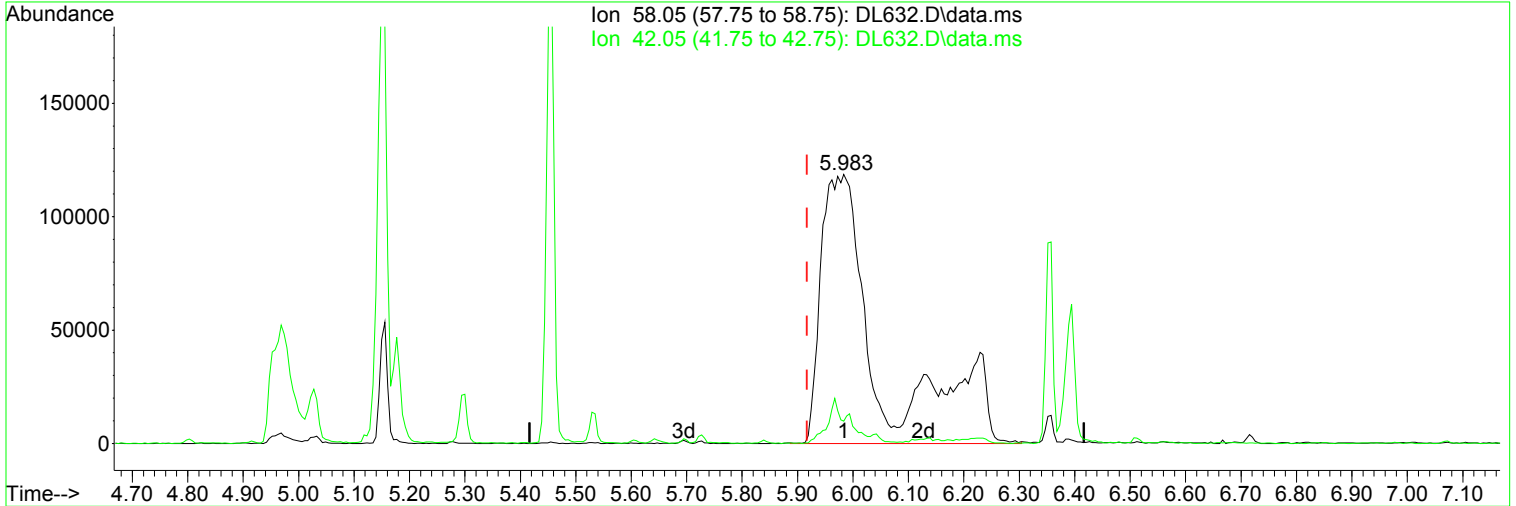


TIC: DL632.D\data.ms

(125) Aramite (TM)			Manual Integration:
10.913min (-0.002)	46.29 ppm		Before
response	83483		
Ion	Exp%	Act%	01/24/18
184.95	100.00	100.00	
191.05	41.10	43.91	
318.95	21.00	19.73	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.983min (+ 0.066) 84.43 ppm m

After

response 852408

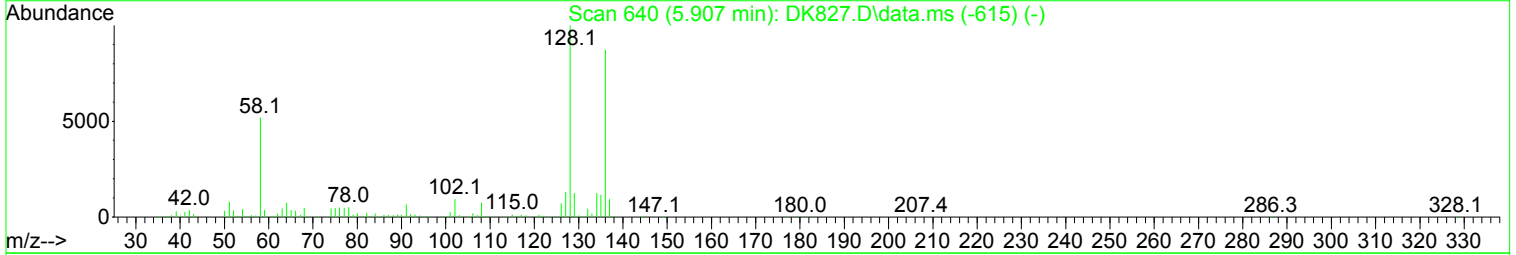
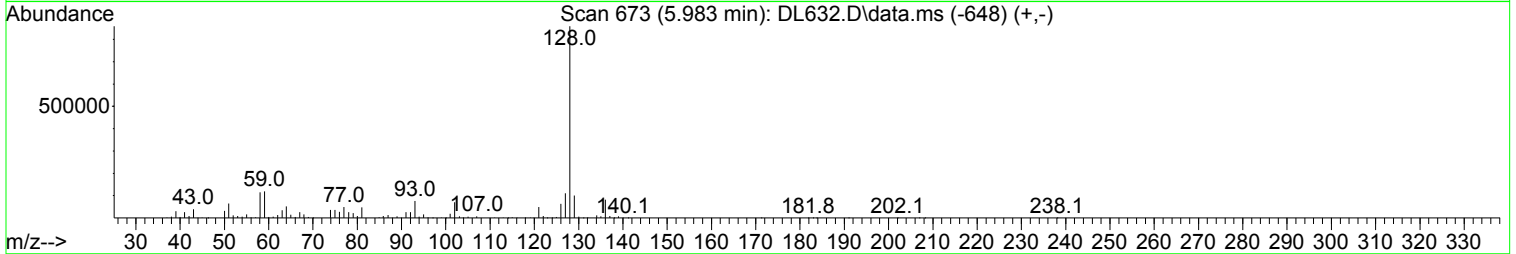
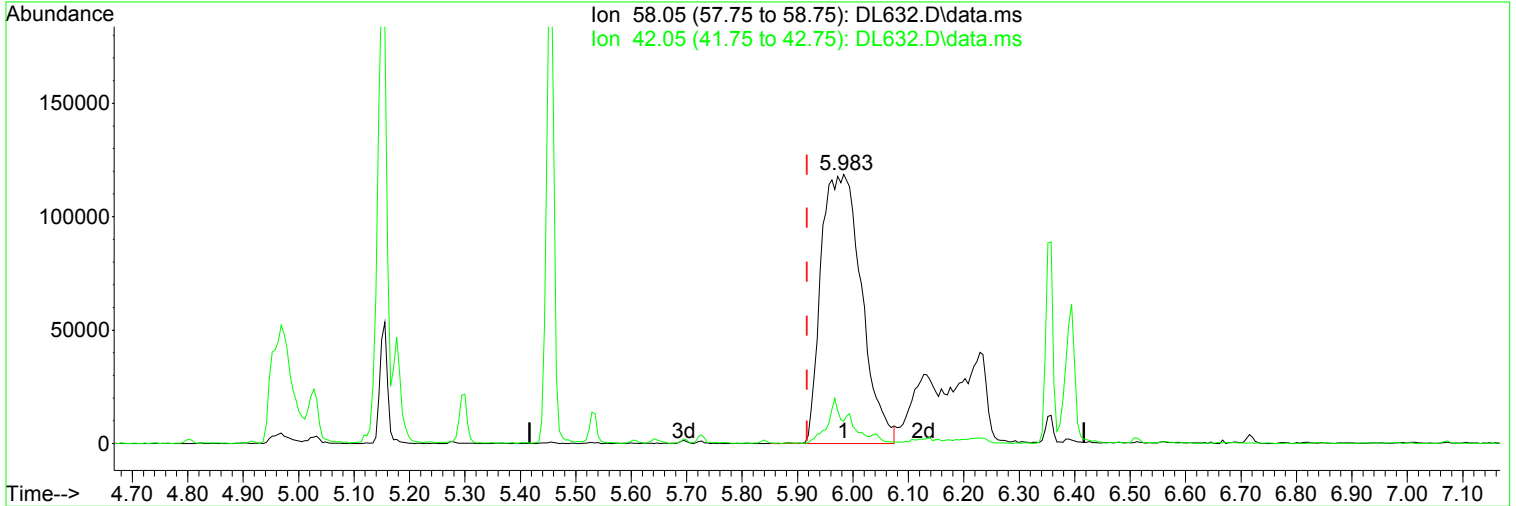
Poor integration.

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	5.90	8.32
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

Data Path : I:\ACQUDATA\5973A\DATA\012318\  
Data File : DL632.D  
Acq On : 23 Jan 2018 4:10 pm  
Operator : J.Misiurewicz  
Sample : ICV  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 24 07:57:43 2018  
Quant Method : I:\ACQUDATA\5973A\METHODS\8270012318A.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Wed Jan 24 07:09:23 2018  
Response via : Initial Calibration



TIC: DL632.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.983min (+ 0.066) 59.35 ppm

Before

response 599157

Ion	Exp%	Act%
58.05	100.00	100.00
42.05	5.90	8.12
0.00	0.00	0.00
0.00	0.00	0.00

01/24/18

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800014-01	2.5 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL624.D	01/23/2018 12:20
02	RC1800014-02	5.0 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL625.D	01/23/2018 12:48
03	RC1800014-03	10 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL626.D	01/23/2018 13:17
04	RC1800014-04	50 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL627.D	01/23/2018 13:47
05	RC1800014-05	80 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL628.D	01/23/2018 14:16
06	RC1800014-06	100 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL629.D	01/23/2018 14:44
07	RC1800014-07	120 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL630.D	01/23/2018 15:13
08	RC1800014-08	160 ppm STD	I:\ACQU\DATA\5973A\DATA\012318\DL631.D	01/23/2018 15:42

**Analyte**

**1,2,4,5-Tetrachlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.536	02	5.000	0.5362	03	10.000	0.5265	04	50.000	0.5356
05	80.000	0.5255	06	100.000	0.5353	07	120.000	0.5259	08	160.000	0.5384

**2,3,4,6-Tetrachlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.1991	03	10.000	0.204	04	50.000	0.2191	05	80.000	0.2335
06	100.000	0.2429	07	120.000	0.2439	08	160.000	0.2586			

**2,4,5-Trichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3331	02	5.000	0.3386	03	10.000	0.3204	04	50.000	0.358
05	80.000	0.3526	06	100.000	0.3588	07	120.000	0.3531	08	160.000	0.3575

**2,4,6-Trichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3025	02	5.000	0.2874	03	10.000	0.322	04	50.000	0.3322
05	80.000	0.3399	06	100.000	0.3533	07	120.000	0.3461	08	160.000	0.3532

**2,4-Dichlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2094	02	5.000	0.242	03	10.000	0.2384	04	50.000	0.2501
05	80.000	0.2545	06	100.000	0.2646	07	120.000	0.2569	08	160.000	0.2709

**2,4-Dimethylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.299	02	5.000	0.3104	03	10.000	0.3189	04	50.000	0.3135
05	80.000	0.3274	06	100.000	0.3247	07	120.000	0.3224	08	160.000	0.3321

**2,4-Dinitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.01698	03	10.000	0.0226	04	50.000	0.05485	05	80.000	0.07254
06	100.000	0.08386	07	120.000	0.09285	08	160.000	0.1047			

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

**Analyte**

**2,4-Dinitrotoluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2242	03	10.000	0.2279	04	50.000	0.3179	05	80.000	0.3471
06	100.000	0.3793	07	120.000	0.3847	08	160.000	0.4085			

**2,6-Dinitrotoluene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2037	03	10.000	0.2249	04	50.000	0.2705	05	80.000	0.2759
06	100.000	0.2874	07	120.000	0.2934	08	160.000	0.3022			

**2-Chloronaphthalene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.194	02	5.000	1.183	03	10.000	1.212	04	50.000	1.188
05	80.000	1.159	06	100.000	1.184	07	120.000	1.154	08	160.000	1.178

**2-Chlorophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.324	02	5.000	1.27	03	10.000	1.307	04	50.000	1.295
05	80.000	1.334	06	100.000	1.315	07	120.000	1.334	08	160.000	1.382

**2-Methylnaphthalene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6443	02	5.000	0.6714	03	10.000	0.6251	04	50.000	0.6413
05	80.000	0.633	06	100.000	0.633	07	120.000	0.6256	08	160.000	0.6469

**2-Methylphenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.2	02	5.000	1.108	03	10.000	1.203	04	50.000	1.152
05	80.000	1.207	06	100.000	1.188	07	120.000	1.193	08	160.000	1.238

**2-Nitroaniline**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2006	02	5.000	0.2084	03	10.000	0.2235	04	50.000	0.2594
05	80.000	0.2701	06	100.000	0.2742	07	120.000	0.2691	08	160.000	0.2764

**2-Nitrophenol**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1268	02	5.000	0.1222	03	10.000	0.127	04	50.000	0.1489
05	80.000	0.1583	06	100.000	0.1678	07	120.000	0.1695	08	160.000	0.1806

**3,3'-Dichlorobenzidine**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4972	02	5.000	0.4997	03	10.000	0.4974	04	50.000	0.5279
05	80.000	0.5465	06	100.000	0.5365	07	120.000	0.5348	08	160.000	0.5416

**3- and 4-Methylphenol Coelution**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.266	02	5.000	1.241	03	10.000	1.242	04	50.000	1.263
05	80.000	1.294	06	100.000	1.27	07	120.000	1.276	08	160.000	1.442

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801804  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

3-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2442	03	10.000	0.2829	04	50.000	0.3003	05	80.000	0.3203
06	100.000	0.3435	07	120.000	0.3481	08	160.000	0.363			

4,6-Dinitro-2-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.03907	03	10.000	0.04548	04	50.000	0.08376	05	80.000	0.09371
06	100.000	0.09876	07	120.000	0.1103	08	160.000	0.1148			

4-Bromophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2057	02	5.000	0.2016	03	10.000	0.2141	04	50.000	0.1784
05	80.000	0.1763	06	100.000	0.1746	07	120.000	0.178	08	160.000	0.1785

4-Chloro-3-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2373	02	5.000	0.2407	03	10.000	0.2496	04	50.000	0.2532
05	80.000	0.2555	06	100.000	0.2588	07	120.000	0.2529	08	160.000	0.2618

4-Chloroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4443	02	5.000	0.4603	03	10.000	0.4628	04	50.000	0.4682
05	80.000	0.4645	06	100.000	0.4747	07	120.000	0.4651	08	160.000	0.475

4-Chlorophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5883	02	5.000	0.5939	03	10.000	0.5456	04	50.000	0.5481
05	80.000	0.5378	06	100.000	0.5282	07	120.000	0.5085	08	160.000	0.5158

4-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2949	03	10.000	0.3158	04	50.000	0.3773	05	80.000	0.3755
06	100.000	0.3848	07	120.000	0.3836	08	160.000	0.4002			

4-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1394	04	50.000	0.177	05	80.000	0.1895	06	100.000	0.2018
07	120.000	0.2073	08	160.000	0.2114						

Acenaphthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.3	02	5.000	1.345	03	10.000	1.36	04	50.000	1.336
05	80.000	1.319	06	100.000	1.339	07	120.000	1.305	08	160.000	1.325

Acenaphthylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.922	02	5.000	2.018	03	10.000	1.959	04	50.000	1.96
05	80.000	1.923	06	100.000	1.924	07	120.000	1.913	08	160.000	1.922

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801804  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

Acetophenone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.779	02	5.000	1.788	03	10.000	1.754	04	50.000	1.684
05	80.000	1.722	06	100.000	1.678	07	120.000	1.684	08	160.000	1.717

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.032	02	5.000	1.053	03	10.000	1.067	04	50.000	1.047
05	80.000	1.058	06	100.000	1.034	07	120.000	1.057	08	160.000	1.032

Atrazine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09939	02	5.000	0.1082	03	10.000	0.1219	04	50.000	0.1177
05	80.000	0.1129	06	100.000	0.1086	07	120.000	0.1077	08	160.000	0.1012

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.151	02	5.000	1.118	03	10.000	1.121	04	50.000	1.109
05	80.000	1.12	06	100.000	1.104	07	120.000	1.113	08	160.000	1.126

Benzaldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.867	02	10.000	0.865	03	20.000	0.8606	04	50.000	0.8582
05	80.000	0.8647	06	100.000	0.8198	07	120.000	0.8091			

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.894	02	5.000	0.8762	03	10.000	0.9662	04	50.000	0.9973
05	80.000	1.011	06	100.000	1.017	07	120.000	1.027	08	160.000	1.026

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.082	02	5.000	1.004	03	10.000	1.154	04	50.000	1.151
05	80.000	1.164	06	100.000	1.181	07	120.000	1.178	08	160.000	1.173

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.008	02	5.000	0.904	03	10.000	0.9798	04	50.000	0.9119
05	80.000	0.9144	06	100.000	0.8939	07	120.000	0.8788	08	160.000	0.8352

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.062	02	5.000	0.9657	03	10.000	1.121	04	50.000	1.1
05	80.000	1.104	06	100.000	1.083	07	120.000	1.099	08	160.000	1.056

Biphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.681	02	5.000	1.653	03	10.000	1.624	04	50.000	1.606
05	80.000	1.578	06	100.000	1.595	07	120.000	1.565	08	160.000	1.566

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

**Analyte**

**2,2'-Oxybis(1-chloropropane)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.083	02	5.000	1.1	03	10.000	1.079	04	50.000	1.072
05	80.000	1.076	06	100.000	1.04	07	120.000	1.046	08	160.000	1.065

**Bis(2-chloroethoxy)methane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3744	02	5.000	0.3555	03	10.000	0.3587	04	50.000	0.3581
05	80.000	0.357	06	100.000	0.3571	07	120.000	0.3424	08	160.000	0.3561

**Bis(2-chloroethyl) Ether**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.268	02	5.000	1.16	03	10.000	1.16	04	50.000	1.159
05	80.000	1.185	06	100.000	1.159	07	120.000	1.166	08	160.000	1.197

**Bis(2-ethylhexyl) Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.7904	02	5.000	0.7896	03	10.000	0.8118	04	50.000	0.8797
05	80.000	0.9064	06	100.000	0.8884	07	120.000	0.902	08	160.000	0.914

**Butyl Benzyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5931	02	5.000	0.6344	03	10.000	0.6154	04	50.000	0.6319
05	80.000	0.6567	06	100.000	0.6434	07	120.000	0.6631	08	160.000	0.6717

**Caprolactam**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09136	02	5.000	0.09622	03	10.000	0.1081	04	50.000	0.1042
05	80.000	0.1064	06	100.000	0.1069	07	120.000	0.105	08	160.000	0.1103

**Carbazole**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.013	02	5.000	1.037	03	10.000	1.126	04	50.000	1.124
05	80.000	1.103	06	100.000	1.086	07	120.000	1.095	08	160.000	1.076

**Chrysene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.088	02	5.000	1.077	03	10.000	1.063	04	50.000	1.023
05	80.000	1.041	06	100.000	1.018	07	120.000	1.03	08	160.000	1.04

**Di-n-butyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.114	02	5.000	1.195	03	10.000	1.388	04	50.000	1.391
05	80.000	1.362	06	100.000	1.343	07	120.000	1.343	08	160.000	1.282

**Di-n-octyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	1.098	03	10.000	1.315	04	50.000	1.463	05	80.000	1.526
06	100.000	1.544	07	120.000	1.585	08	160.000	1.57			



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801804  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

Dibenz(a,h)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.99	02	5.000	0.921	03	10.000	1.011	04	50.000	1
05	80.000	1.036	06	100.000	1.031	07	120.000	1.021	08	160.000	0.9972

Dibenzofuran

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.69	02	5.000	1.7	03	10.000	1.699	04	50.000	1.655
05	80.000	1.599	06	100.000	1.629	07	120.000	1.574	08	160.000	1.585

Diethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.406	02	5.000	1.354	03	10.000	1.323	04	50.000	1.275
05	80.000	1.28	06	100.000	1.313	07	120.000	1.298	08	160.000	1.326

Dimethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.37	02	5.000	1.367	03	10.000	1.399	04	50.000	1.288
05	80.000	1.253	06	100.000	1.275	07	120.000	1.258	08	160.000	1.302

Fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9281	02	5.000	1.012	03	10.000	1.151	04	50.000	1.13
05	80.000	1.107	06	100.000	1.094	07	120.000	1.098	08	160.000	1.065

Fluorene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.405	02	5.000	1.465	03	10.000	1.377	04	50.000	1.366
05	80.000	1.337	06	100.000	1.324	07	120.000	1.283	08	160.000	1.29

Hexachlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.256	02	5.000	0.2482	03	10.000	0.2638	04	50.000	0.231
05	80.000	0.2218	06	100.000	0.2144	07	120.000	0.223	08	160.000	0.2185

Hexachlorobutadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1226	02	5.000	0.1418	03	10.000	0.1326	04	50.000	0.1306
05	80.000	0.1335	06	100.000	0.1345	07	120.000	0.1334	08	160.000	0.1371

Hexachlorocyclopentadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.239	02	5.000	0.2518	03	10.000	0.2735	04	50.000	0.2945
05	80.000	0.3033	06	100.000	0.3084	07	120.000	0.3049	08	160.000	0.3127

Hexachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5703	02	5.000	0.5301	03	10.000	0.5335	04	50.000	0.5217
05	80.000	0.5356	06	100.000	0.5132	07	120.000	0.5202	08	160.000	0.5374

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801804  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9072	02	5.000	0.8382	03	10.000	0.9358	04	50.000	0.9221
05	80.000	0.9442	06	100.000	0.9296	07	120.000	0.9401	08	160.000	0.9071

Isophorone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5577	02	5.000	0.5692	03	10.000	0.5753	04	50.000	0.592
05	80.000	0.59	06	100.000	0.5952	07	120.000	0.5749	08	160.000	0.5909

N-Nitrosodi-n-propylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8314	02	5.000	0.8378	03	10.000	0.8972	04	50.000	0.8452
05	80.000	0.8757	06	100.000	0.8464	07	120.000	0.84	08	160.000	0.8618

N-Nitrosodiphenylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.6116	02	10.000	0.6512	03	20.000	0.6818	04	100.000	0.5765
05	160.000	0.5708	06	200.000	0.561	07	240.000	0.5733	08	320.000	0.5608

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.08	02	5.000	1.023	03	10.000	0.9994	04	50.000	0.9927
05	80.000	0.9826	06	100.000	0.9731	07	120.000	0.9396	08	160.000	0.9633

Nitrobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2743	02	5.000	0.2812	03	10.000	0.2837	04	50.000	0.3048
05	80.000	0.3137	06	100.000	0.3184	07	120.000	0.3169	08	160.000	0.3278

Pentachlorophenol (PCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.02341	03	10.000	0.04031	04	50.000	0.06591	05	80.000	0.07808
06	100.000	0.08391	07	120.000	0.1025	08	160.000	0.1091			

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.068	02	5.000	1.098	03	10.000	1.061	04	50.000	1.047
05	80.000	1.034	06	100.000	1.021	07	120.000	1.053	08	160.000	1.016

Phenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.628	02	5.000	1.492	03	10.000	1.561	04	50.000	1.572
05	80.000	1.579	06	100.000	1.603	07	120.000	1.588	08	160.000	1.648

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.153	02	5.000	1.15	03	10.000	1.128	04	50.000	1.189
05	80.000	1.212	06	100.000	1.207	07	120.000	1.215	08	160.000	1.214

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801804  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800014  
Instrument ID: R-MS-51

Signal ID: 1

Analyte

2,4,6-Tribromophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1787	02	5.000	0.1881	03	10.000	0.1871	04	50.000	0.1941
05	80.000	0.1926	06	100.000	0.1976	07	120.000	0.1957	08	160.000	0.1921

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.404	02	5.000	1.462	03	10.000	1.415	04	50.000	1.42
05	80.000	1.386	06	100.000	1.417	07	120.000	1.384	08	160.000	1.42

2-Fluorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.217	02	5.000	1.287	03	10.000	1.292	04	50.000	1.284
05	80.000	1.331	06	100.000	1.295	07	120.000	1.305	08	160.000	1.354

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2518	02	5.000	0.2832	03	10.000	0.2739	04	50.000	0.294
05	80.000	0.3043	06	100.000	0.3144	07	120.000	0.3105	08	160.000	0.3216

Phenol-d6

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.41	02	5.000	1.562	03	10.000	1.642	04	50.000	1.601
05	80.000	1.656	06	100.000	1.638	07	120.000	1.648	08	160.000	1.691

Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8413	02	5.000	0.8573	03	10.000	0.8368	04	50.000	0.8584
05	80.000	0.8798	06	100.000	0.8632	07	120.000	0.8737	08	160.000	0.8614

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,2,4,5-Tetrachlorobenzene	TRG	Average RF	% RSD	1.0	20	0.5324	0.010
2,3,4,6-Tetrachlorophenol	TRG	Average RF	% RSD	9.7	20	0.2287	0.010
2,4,5-Trichlorophenol	TRG	Average RF	% RSD	4.1	20	0.3465	0.200
2,4,6-Trichlorophenol	TRG	Average RF	% RSD	7.3	20	0.3296	0.200
2,4-Dichlorophenol	TRG	Average RF	% RSD	7.7	20	0.2484	0.200
2,4-Dimethylphenol	TRG	Average RF	% RSD	3.3	20	0.3185	0.200
2,4-Dinitrophenol	TRG	Quadratic	COD	0.9956	0.99	0.06405	0.010
2,4-Dinitrotoluene	TRG	Quadratic	COD	0.9975	0.99	0.3271	0.200
2,6-Dinitrotoluene	TRG	Average RF	% RSD	13.9	20	0.2654	0.200
2-Chloronaphthalene	TRG	Average RF	% RSD	1.6	20	1.181	0.800
2-Chlorophenol	TRG	Average RF	% RSD	2.5	20	1.32	0.800
2-Methylnaphthalene	TRG	Average RF	% RSD	2.3	20	0.6401	0.400
2-Methylphenol	TRG	Average RF	% RSD	3.3	20	1.186	0.700
2-Nitroaniline	TRG	Average RF	% RSD	12.7	20	0.2477	0.010
2-Nitrophenol	TRG	Average RF	% RSD	15.0	20	0.1501	0.100
3,3'-Dichlorobenzidine	TRG	Average RF	% RSD	4.0	20	0.5227	0.010
3- and 4-Methylphenol Coelution	TRG	Average RF	% RSD	5.0	20	1.287	0.600
3-Nitroaniline	TRG	Average RF	% RSD	13.3	20	0.3146	0.010
4,6-Dinitro-2-methylphenol	TRG	Quadratic	COD	0.9959	0.99	0.0837	0.010
4-Bromophenyl Phenyl Ether	TRG	Average RF	% RSD	8.5	20	0.1884	0.100
4-Chloro-3-methylphenol	TRG	Average RF	% RSD	3.4	20	0.2512	0.200
4-Chloroaniline	TRG	Average RF	% RSD	2.1	20	0.4644	0.010
4-Chlorophenyl Phenyl Ether	TRG	Average RF	% RSD	5.7	20	0.5458	0.400
4-Nitroaniline	TRG	Average RF	% RSD	11.0	20	0.3617	0.010
4-Nitrophenol	TRG	Average RF	% RSD	14.3	20	0.1878	0.010
Acenaphthene	TRG	Average RF	% RSD	1.5	20	1.329	0.900
Acenaphthylene	TRG	Average RF	% RSD	1.8	20	1.943	0.900
Acetophenone	TRG	Average RF	% RSD	2.5	20	1.726	0.010
Anthracene	TRG	Average RF	% RSD	1.3	20	1.047	0.700
Atrazine	TRG	Average RF	% RSD	7.0	20	0.1097	0.010
Benz(a)anthracene	TRG	Average RF	% RSD	1.3	20	1.12	0.800
Benzaldehyde	TRG	Average RF	% RSD	2.8	20	0.8492	0.010
Benzo(a)pyrene	TRG	Average RF	% RSD	6.1	20	0.9768	0.700
Benzo(b)fluoranthene	TRG	Average RF	% RSD	5.4	20	1.136	0.700

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	6.0	20	0.9157	0.500
Benzo(k)fluoranthene	TRG	Average RF	% RSD	4.5	20	1.074	0.700
Biphenyl	TRG	Average RF	% RSD	2.6	20	1.608	0.010
2,2'-Oxybis(1-chloropropane)	TRG	Average RF	% RSD	1.8	20	1.07	0.010
Bis(2-chloroethoxy)methane	TRG	Average RF	% RSD	2.4	20	0.3574	0.300
Bis(2-chloroethyl) Ether	TRG	Average RF	% RSD	3.2	20	1.182	0.700
Bis(2-ethylhexyl) Phthalate	TRG	Average RF	% RSD	6.2	20	0.8603	0.010
Butyl Benzyl Phthalate	TRG	Average RF	% RSD	4.1	20	0.6387	0.010
Caprolactam	TRG	Average RF	% RSD	6.2	20	0.1035	0.010
Carbazole	TRG	Average RF	% RSD	3.7	20	1.083	0.010
Chrysene	TRG	Average RF	% RSD	2.5	20	1.048	0.700
Di-n-butyl Phthalate	TRG	Average RF	% RSD	7.6	20	1.302	0.010
Di-n-octyl Phthalate	TRG	Average RF	% RSD	12.3	20	1.443	0.010
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	3.6	20	1.001	0.400
Dibenzofuran	TRG	Average RF	% RSD	3.2	20	1.641	0.800
Diethyl Phthalate	TRG	Average RF	% RSD	3.2	20	1.322	0.010
Dimethyl Phthalate	TRG	Average RF	% RSD	4.3	20	1.314	0.010
Fluoranthene	TRG	Average RF	% RSD	6.7	20	1.073	0.600
Fluorene	TRG	Average RF	% RSD	4.5	20	1.356	0.900
Hexachlorobenzene	TRG	Average RF	% RSD	8.0	20	0.2346	0.100
Hexachlorobutadiene	TRG	Average RF	% RSD	4.1	20	0.1333	0.010
Hexachlorocyclopentadiene	TRG	Average RF	% RSD	9.8	20	0.286	0.050
Hexachloroethane	TRG	Average RF	% RSD	3.3	20	0.5328	0.300
Indeno(1,2,3-cd)pyrene	TRG	Average RF	% RSD	3.7	20	0.9155	0.500
Isophorone	TRG	Average RF	% RSD	2.3	20	0.5806	0.400
N-Nitrosodi-n-propylamine	TRG	Average RF	% RSD	2.6	20	0.8544	0.500
N-Nitrosodiphenylamine	TRG	Average RF	% RSD	7.6	20	0.5984	0.010
Naphthalene	TRG	Average RF	% RSD	4.3	20	0.9941	0.700
Nitrobenzene	TRG	Average RF	% RSD	6.6	20	0.3026	0.200
Pentachlorophenol (PCP)	TRG	Quadratic	COD	0.9951	0.99	0.07189	0.050
Phenanthrene	TRG	Average RF	% RSD	2.6	20	1.05	0.700
Phenol	TRG	Average RF	% RSD	3.0	20	1.584	0.800
Pyrene	TRG	Average RF	% RSD	2.9	20	1.183	0.600
2,4,6-Tribromophenol	SURR	Average RF	% RSD	3.2	20	0.1907	
2-Fluorobiphenyl	SURR	Average RF	% RSD	1.7	20	1.414	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2-Fluorophenol	SURR	Average RF	% RSD	3.1	20	1.295	
Nitrobenzene-d5	SURR	Average RF	% RSD	8.0	20	0.2942	
Phenol-d6	SURR	Average RF	% RSD	5.5	20	1.606	
Terphenyl-d14	SURR	Average RF	% RSD	1.7	20	0.859	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800014-09	ICV	I:\ACQUDATA\5973A\DATA\012318\DL632.D	01/23/2018 16:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	77.6	5.324E-1	5.168E-1	-2.938	±30	Average RF
2,3,4,6-Tetrachlorophenol	80.0	84.9	2.287E-1	2.428E-1	6.15	±30	Average RF
2,4,5-Trichlorophenol	80.0	81.2	3.465E-1	3.518E-1	1.53	±30	Average RF
2,4,6-Trichlorophenol	80.0	84.0	3.296E-1	3.459E-1	4.96	±30	Average RF
2,4-Dichlorophenol	80.0	84.9	2.484E-1	2.636E-1	6.12	±30	Average RF
2,4-Dimethylphenol	80.0	81.2	3.185E-1	3.233E-1	1.51	±30	Average RF
2,4-Dinitrophenol	80.0	102	6.405E-2	1.043E-1	27.89	±30	Quadratic
2,4-Dinitrotoluene	80.0	94.7	3.271E-1	4.244E-1	18.42	±30	Quadratic
2,6-Dinitrotoluene	80.0	98.8	2.654E-1	3.278E-1	23.51	±30	Average RF
2-Chloronaphthalene	80.0	78.9	1.181E0	1.164E0	-1.427	±30	Average RF
2-Chlorophenol	80.0	81.3	1.32E0	1.341E0	1.60	±30	Average RF
2-Methylnaphthalene	80.0	79.3	6.401E-1	6.345E-1	-0.867	±30	Average RF
2-Methylphenol	80.0	77.7	1.186E0	1.152E0	-2.881	±30	Average RF
2-Nitroaniline	80.0	89.4	2.477E-1	2.769E-1	11.76	±30	Average RF
2-Nitrophenol	80.0	92.0	1.501E-1	1.727E-1	15.04	±30	Average RF
3,3'-Dichlorobenzidine	50.0	47.4	5.227E-1	4.959E-1	-5.125	±30	Average RF
3- and 4-Methylphenol Coelution	80.0	78.9	1.287E0	1.27E0	-1.338	±30	Average RF
3-Nitroaniline	80.0	85.9	3.146E-1	3.379E-1	7.40	±30	Average RF
4,6-Dinitro-2-methylphenol	80.0	87.5	8.37E-2	1.033E-1	9.37	±30	Quadratic
4-Bromophenyl Phenyl Ether	80.0	81.2	1.884E-1	1.912E-1	1.50	±30	Average RF
4-Chloro-3-methylphenol	80.0	82.7	2.512E-1	2.598E-1	3.42	±30	Average RF
4-Chloroaniline	50.0	46.7	4.644E-1	4.341E-1	-6.525	±30	Average RF
4-Chlorophenyl Phenyl Ether	80.0	85.0	5.458E-1	5.797E-1	6.23	±30	Average RF
4-Nitroaniline	80.0	81.0	3.617E-1	3.662E-1	1.22	±30	Average RF
4-Nitrophenol	80.0	87.8	1.878E-1	2.06E-1	9.70	±30	Average RF
Acenaphthene	80.0	80.7	1.329E0	1.341E0	0.907	±30	Average RF
Acenaphthylene	80.0	82.3	1.943E0	1.999E0	2.91	±30	Average RF
Acetophenone	80.0	77.9	1.726E0	1.68E0	-2.683	±30	Average RF
Anthracene	80.0	83.0	1.047E0	1.087E0	3.77	±30	Average RF
Atrazine	50.0	46.9	1.097E-1	1.029E-1	-6.222	±30	Average RF
Benz(a)anthracene	80.0	81.2	1.12E0	1.138E0	1.56	±30	Average RF
Benzaldehyde	80.0	83.7	8.492E-1	8.884E-1	4.62	±30	Average RF
Benzo(a)pyrene	80.0	86.1	9.768E-1	1.051E0	7.63	±30	Average RF
Benzo(b)fluoranthene	80.0	84.8	1.136E0	1.204E0	6.00	±30	Average RF
Benzo(g,h,i)perylene	80.0	74.3	9.157E-1	8.51E-1	-7.075	±30	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800014-09	ICV	I:\ACQUDATA\5973A\DATA\012318\DL632.D	01/23/2018 16:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzo(k)fluoranthene	80.0	85.1	1.074E0	1.142E0	6.36	±30	Average RF
Biphenyl	80.0	79.3	1.608E0	1.594E0	-0.878	±30	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	96.3	1.07E0	1.288E0	20.34	±30	Average RF
Bis(2-chloroethoxy)methane	80.0	83.3	3.574E-1	3.721E-1	4.11	±30	Average RF
Bis(2-chloroethyl) Ether	80.0	83.5	1.182E0	1.234E0	4.42	±30	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	80.3	8.603E-1	8.637E-1	0.398	±30	Average RF
Butyl Benzyl Phthalate	80.0	76.4	6.387E-1	6.102E-1	-4.457	±30	Average RF
Caprolactam	80.0	81.7	1.035E-1	1.057E-1	2.07	±30	Average RF
Carbazole	80.0	78.7	1.083E0	1.064E0	-1.687	±30	Average RF
Chrysene	80.0	84.4	1.048E0	1.105E0	5.45	±30	Average RF
Di-n-butyl Phthalate	80.0	81.4	1.302E0	1.325E0	1.78	±30	Average RF
Di-n-octyl Phthalate	80.0	78.2	1.443E0	1.41E0	-2.243	±30	Average RF
Dibenz(a,h)anthracene	80.0	83.8	1.001E0	1.048E0	4.72	±30	Average RF
Dibenzofuran	80.0	79.9	1.641E0	1.64E0	-0.085	±30	Average RF
Diethyl Phthalate	80.0	75.5	1.322E0	1.248E0	-5.583	±30	Average RF
Dimethyl Phthalate	80.0	75.2	1.314E0	1.235E0	-6.028	±30	Average RF
Fluoranthene	80.0	86.0	1.073E0	1.154E0	7.52	±30	Average RF
Fluorene	80.0	82.0	1.356E0	1.389E0	2.46	±30	Average RF
Hexachlorobenzene	80.0	73.0	2.346E-1	2.139E-1	-8.805	±30	Average RF
Hexachlorobutadiene	80.0	79.3	1.333E-1	1.322E-1	-0.822	±30	Average RF
Hexachlorocyclopentadiene	80.0	81.9	2.86E-1	2.93E-1	2.44	±30	Average RF
Hexachloroethane	80.0	78.6	5.328E-1	5.231E-1	-1.811	±30	Average RF
Indeno(1,2,3-cd)pyrene	80.0	81.6	9.155E-1	9.335E-1	1.96	±30	Average RF
Isophorone	80.0	92.9	5.806E-1	6.743E-1	16.14	±30	Average RF
N-Nitrosodi-n-propylamine	80.0	82.4	8.544E-1	8.802E-1	3.02	±30	Average RF
N-Nitrosodiphenylamine	160	157	5.984E-1	5.877E-1	-1.790	±30	Average RF
Naphthalene	80.0	82.4	9.941E-1	1.024E0	2.98	±30	Average RF
Nitrobenzene	80.0	95.6	3.026E-1	3.616E-1	19.50	±30	Average RF
Pentachlorophenol (PCP)	80.0	92.1	7.189E-2	9.686E-2	15.09	±30	Quadratic
Phenanthrene	80.0	81.4	1.05E0	1.068E0	1.77	±30	Average RF
Phenol	80.0	82.0	1.584E0	1.623E0	2.47	±30	Average RF
Pyrene	80.0	84.1	1.183E0	1.244E0	5.15	±30	Average RF
2,4,6-Tribromophenol	80.0	79.2	1.907E-1	1.889E-1	-0.950	±30	Average RF
2-Fluorobiphenyl	80.0	77.6	1.414E0	1.371E0	-3.006	±30	Average RF
2-Fluorophenol	80.0	77.5	1.295E0	1.255E0	-3.087	±30	Average RF



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801804  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800014  
**Instrument ID:** R-MS-51

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800014-09	ICV	I:\ACQUDATA\5973A\DATA\012318\DL632.D	01/23/2018 16:10

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Nitrobenzene-d5	80.0	84.1	2.942E-1	3.093E-1	5.14	±30	Average RF
Phenol-d6	80.0	78.7	1.606E0	1.58E0	-1.619	±30	Average RF
Terphenyl-d14	80.0	78.4	8.59E-1	8.417E-1	-2.018	±30	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801804  
Date Analyzed: 03/02/18 10:45

Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D  
File ID: I:\ACQUADATA\5973A\DATA\030218\DM087.D\  
Signal ID: 1

Calibration Date: 1/23/2018  
Calibration ID: RC1800014  
Analysis Lot: 582266  
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	88.1	0.5324	0.5863	10.1	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	88.4	0.2287	0.2527	10.5	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	88.6	0.3465	0.3839	10.8	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	91.8	0.3296	0.3782	14.8	NA	±20	Average RF
2,4-Dichlorophenol	80.0	89.9	0.2484	0.279	12.3	NA	±20	Average RF
2,4-Dimethylphenol	80.0	87.2	0.3185	0.3473	9.0	NA	±20	Average RF
2,4-Dinitrophenol	80.0	104	0.0641	0.1076	NA	30.4*	±20	Quadratic
2,4-Dinitrotoluene	80.0	93.7	0.3271	0.4185	NA	17.1	±20	Quadratic
2,6-Dinitrotoluene	80.0	96.0	0.2654	0.3185	20.0	NA	±20	Average RF
2-Chloronaphthalene	80.0	85.6	1.1812	1.2643	7.0	NA	±20	Average RF
2-Chlorophenol	80.0	86.9	1.3202	1.4342	8.6	NA	±20	Average RF
2-Methylnaphthalene	80.0	87.0	0.6401	0.696	8.7	NA	±20	Average RF
2-Methylphenol	80.0	84.5	1.186	1.2534	5.7	NA	±20	Average RF
2-Nitroaniline	80.0	92.6	0.2477	0.2867	15.7	NA	±20	Average RF
2-Nitrophenol	80.0	107	0.1501	0.2015	34.2*	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	74.4	0.5227	0.4858	-7.1	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	91.7	1.2868	1.4744	14.6	NA	±20	Average RF
3-Nitroaniline	80.0	93.3	0.3146	0.3671	16.7	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	106	0.0837	0.1342	NA	32.8*	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	89.8	0.1884	0.2115	12.3	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	88.9	0.2512	0.2791	11.1	NA	±20	Average RF
4-Chloroaniline	80.0	71.8	0.4644	0.417	-10.2	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	85.0	0.5458	0.5797	6.2	NA	±20	Average RF
4-Nitroaniline	80.0	87.4	0.3617	0.3953	9.3	NA	±20	Average RF
4-Nitrophenol	80.0	91.8	0.1878	0.2154	14.7	NA	±20	Average RF
Acenaphthene	80.0	83.8	1.3286	1.3913	4.7	NA	±20	Average RF
Acenaphthylene	80.0	84.8	1.9426	2.0592	6.0	NA	±20	Average RF
Acetophenone	80.0	81.9	1.7258	1.7673	2.4	NA	±20	Average RF
Anthracene	80.0	91.5	1.0473	1.1983	14.4	NA	±20	Average RF
Atrazine	80.0	77.6	0.1097	0.1064	-3.0	NA	±20	Average RF
Benz(a)anthracene	80.0	88.4	1.1204	1.2384	10.5	NA	±20	Average RF
Benzaldehyde	80.0	81.5	0.8492	0.8656	1.9	NA	±20	Average RF
Benzo(a)pyrene	80.0	91.7	0.9768	1.1196	14.6	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	88.3	1.1358	1.254	10.4	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	89.9	0.9157	1.0286	12.3	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	89.8	1.0738	1.2049	12.2	NA	±20	Average RF
Biphenyl	80.0	83.4	1.6085	1.6769	4.3	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	71.1	1.0701	0.9514	-11.1	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	86.5	0.3574	0.3866	8.2	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	82.2	1.1818	1.2149	2.8	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	93.7	0.8603	1.0073	17.1	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	90.3	0.6387	0.7209	12.9	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801804  
**Date Analyzed:** 03/02/18 10:45

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUADATA\5973A\DATA\030218\DM087.D\  
**Signal ID:** 1

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800014  
**Analysis Lot:** 582266  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	85.5	0.1035	0.1107	6.9	NA	±20	Average RF
Carbazole	80.0	87.1	1.0825	1.1785	8.9	NA	±20	Average RF
Chrysene	80.0	86.8	1.0477	1.137	8.5	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	93.2	1.3022	1.5176	16.5	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	91.0	1.4427	1.6406	13.7	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	92.6	1.0008	1.1579	15.7	NA	±20	Average RF
Dibenzofuran	80.0	83.8	1.6415	1.7184	4.7	NA	±20	Average RF
Diethyl Phthalate	80.0	84.5	1.3218	1.3954	5.6	NA	±20	Average RF
Dimethyl Phthalate	80.0	83.8	1.314	1.3761	4.7	NA	±20	Average RF
Fluoranthene	80.0	88.5	1.0731	1.1872	10.6	NA	±20	Average RF
Fluorene	80.0	82.3	1.3558	1.3946	2.9	NA	±20	Average RF
Hexachlorobenzene	80.0	88.3	0.2346	0.2588	10.3	NA	±20	Average RF
Hexachlorobutadiene	80.0	91.2	0.1333	0.152	14.0	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	82.0	0.286	0.293	2.4	NA	±20	Average RF
Hexachloroethane	80.0	86.8	0.5328	0.5777	8.4	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	94.2	0.9155	1.0775	17.7	NA	±20	Average RF
Isophorone	80.0	85.5	0.5806	0.6204	6.8	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	80.2	0.8544	0.8568	0.3	NA	±20	Average RF
N-Nitrosodiphenylamine	160	174	0.5984	0.6522	9.0	NA	±20	Average RF
Naphthalene	80.0	86.6	0.9941	1.0766	8.3	NA	±20	Average RF
Nitrobenzene	80.0	90.2	0.3026	0.3413	12.8	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	98.9	0.0719	0.1074	NA	23.6*	±20	Quadratic
Phenanthrene	80.0	89.4	1.0498	1.1733	11.8	NA	±20	Average RF
Phenol	80.0	91.6	1.5838	1.8137	14.5	NA	±20	Average RF
Pyrene	80.0	93.3	1.1835	1.3801	16.6	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	90.3	0.1907	0.2154	12.9	NA	±20	Average RF
2-Fluorobiphenyl	80.0	84.0	1.4136	1.4848	5.0	NA	±20	Average RF
2-Fluorophenol	80.0	86.0	1.2954	1.3921	7.5	NA	±20	Average RF
Nitrobenzene-d5	80.0	94.0	0.2942	0.3458	17.5	NA	±20	Average RF
Phenol-d6	80.0	84.9	1.606	1.7051	6.2	NA	±20	Average RF
Terphenyl-d14	80.0	94.5	0.859	1.0144	18.1	NA	±20	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801804  
Date Analyzed: 03/05/18 08:35

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

Analysis Method: 8270D  
File ID: I:\ACQUADATA\5973A\DATA\030518\DM112.D\  
Signal ID: 1

Calibration Date: 1/23/2018  
Calibration ID: RC1800014  
Analysis Lot: 582423  
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	86.2	0.5324	0.5736	7.7	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	92.4	0.2287	0.2642	15.5	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	90.7	0.3465	0.3926	13.3	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	91.4	0.3296	0.3763	14.2	NA	±20	Average RF
2,4-Dichlorophenol	80.0	92.9	0.2484	0.2886	16.2	NA	±20	Average RF
2,4-Dimethylphenol	80.0	91.0	0.3185	0.3623	13.7	NA	±20	Average RF
2,4-Dinitrophenol	80.0	112	0.0641	0.1204	NA	39.8*	±20	Quadratic
2,4-Dinitrotoluene	80.0	95.1	0.3271	0.4268	NA	18.9	±20	Quadratic
2,6-Dinitrotoluene	80.0	97.9	0.2654	0.3248	22.4*	NA	±20	Average RF
2-Chloronaphthalene	80.0	85.7	1.1812	1.2648	7.1	NA	±20	Average RF
2-Chlorophenol	80.0	89.1	1.3202	1.4705	11.4	NA	±20	Average RF
2-Methylnaphthalene	80.0	89.1	0.6401	0.7128	11.4	NA	±20	Average RF
2-Methylphenol	80.0	88.4	1.186	1.3104	10.5	NA	±20	Average RF
2-Nitroaniline	80.0	96.4	0.2477	0.2984	20.4	NA	±20	Average RF
2-Nitrophenol	80.0	108	0.1501	0.2031	35.3*	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	73.4	0.5227	0.4797	-8.2	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	97.8	1.2868	1.5733	22.3*	NA	±20	Average RF
3-Nitroaniline	80.0	96.9	0.3146	0.381	21.1*	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	111	0.0837	0.1423	NA	38.6*	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	84.3	0.1884	0.1984	5.3	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	94.8	0.2512	0.2975	18.4	NA	±20	Average RF
4-Chloroaniline	80.0	74.8	0.4644	0.4341	-6.5	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	83.5	0.5458	0.5695	4.4	NA	±20	Average RF
4-Nitroaniline	80.0	93.7	0.3617	0.4237	17.1	NA	±20	Average RF
4-Nitrophenol	80.0	75.7	0.1878	0.1776	-5.4	NA	±20	Average RF
Acenaphthene	80.0	86.0	1.3286	1.4277	7.5	NA	±20	Average RF
Acenaphthylene	80.0	86.0	1.9426	2.0887	7.5	NA	±20	Average RF
Acetophenone	80.0	84.7	1.7258	1.828	5.9	NA	±20	Average RF
Anthracene	80.0	90.3	1.0473	1.1825	12.9	NA	±20	Average RF
Atrazine	80.0	76.4	0.1097	0.1048	-4.5	NA	±20	Average RF
Benz(a)anthracene	80.0	86.8	1.1204	1.2159	8.5	NA	±20	Average RF
Benzaldehyde	80.0	85.9	0.8492	0.9114	7.3	NA	±20	Average RF
Benzo(a)pyrene	80.0	91.9	0.9768	1.1222	14.9	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	90.2	1.1358	1.2813	12.8	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	90.4	0.9157	1.0345	13.0	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	89.5	1.0738	1.2011	11.9	NA	±20	Average RF
Biphenyl	80.0	85.8	1.6085	1.7254	7.3	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	70.7	1.0701	0.9451	-11.7	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	87.0	0.3574	0.3889	8.8	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	84.6	1.1818	1.2492	5.7	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	87.5	0.8603	0.9414	9.4	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	84.6	0.6387	0.6757	5.8	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801804  
**Date Analyzed:** 03/05/18 08:35

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUADATA\5973A\DATA\030518\DM112.D\  
**Signal ID:** 1

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800014  
**Analysis Lot:** 582423  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	91.7	0.1035	0.1187	14.6	NA	±20	Average RF
Carbazole	80.0	90.7	1.0825	1.2277	13.4	NA	±20	Average RF
Chrysene	80.0	87.6	1.0477	1.1477	9.6	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	92.9	1.3022	1.512	16.1	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	88.7	1.4427	1.6005	10.9	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	93.4	1.0008	1.1687	16.8	NA	±20	Average RF
Dibenzofuran	80.0	85.2	1.6415	1.7481	6.5	NA	±20	Average RF
Diethyl Phthalate	80.0	84.1	1.3218	1.3899	5.2	NA	±20	Average RF
Dimethyl Phthalate	80.0	83.3	1.314	1.3676	4.1	NA	±20	Average RF
Fluoranthene	80.0	92.2	1.0731	1.2369	15.3	NA	±20	Average RF
Fluorene	80.0	82.0	1.3558	1.3891	2.5	NA	±20	Average RF
Hexachlorobenzene	80.0	85.3	0.2346	0.2501	6.6	NA	±20	Average RF
Hexachlorobutadiene	80.0	91.2	0.1333	0.152	14.1	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	74.1	0.286	0.2649	-7.4	NA	±20	Average RF
Hexachloroethane	80.0	87.1	0.5328	0.5801	8.9	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	94.7	0.9155	1.084	18.4	NA	±20	Average RF
Isophorone	80.0	86.2	0.5806	0.626	7.8	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	82.1	0.8544	0.8765	2.6	NA	±20	Average RF
N-Nitrosodiphenylamine	160	171	0.5984	0.6389	6.8	NA	±20	Average RF
Naphthalene	80.0	87.6	0.9941	1.0891	9.6	NA	±20	Average RF
Nitrobenzene	80.0	91.4	0.3026	0.3457	14.3	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	103	0.0719	0.1148	NA	29.3*	±20	Quadratic
Phenanthrene	80.0	88.0	1.0498	1.1545	10.0	NA	±20	Average RF
Phenol	80.0	94.6	1.5838	1.8724	18.2	NA	±20	Average RF
Pyrene	80.0	89.6	1.1835	1.3253	12.0	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	93.8	0.1907	0.2236	17.2	NA	±20	Average RF
2-Fluorobiphenyl	80.0	85.3	1.4136	1.5076	6.7	NA	±20	Average RF
2-Fluorophenol	80.0	87.5	1.2954	1.4173	9.4	NA	±20	Average RF
Nitrobenzene-d5	80.0	94.6	0.2942	0.348	18.3	NA	±20	Average RF
Phenol-d6	80.0	86.7	1.606	1.7406	8.4	NA	±20	Average RF
Terphenyl-d14	80.0	88.9	0.859	0.9544	11.1	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**582266  
**Instrument ID:**R-MS-51

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\5973A\DATA\030218\DM086.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	10:08:00	
I:\ACQUDATA\5973A\DATA\030218\DM086.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	10:08:00	
I:\ACQUDATA\5973A\DATA\030218\DM087.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	10:45:00	
I:\ACQUDATA\5973A\DATA\030218\DM087.D\	Continuing Calibration Verification	RQ1801909-04	3/2/2018	10:45:00	
I:\ACQUDATA\5973A\DATA\030218\DM095.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	17:10:00	
I:\ACQUDATA\5973A\DATA\030218\DM096.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	17:38:00	
I:\ACQUDATA\5973A\DATA\030218\DM098.D\	Lab Control Sample	RQ1801883-02	3/2/2018	18:34:00	
I:\ACQUDATA\5973A\DATA\030218\DM099.D\	Duplicate Lab Control Sample	RQ1801883-03	3/2/2018	19:02:00	
I:\ACQUDATA\5973A\DATA\030218\DM101.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	19:58:00	
I:\ACQUDATA\5973A\DATA\030218\DM102.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	20:26:00	
I:\ACQUDATA\5973A\DATA\030218\DM103.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	20:54:00	
I:\ACQUDATA\5973A\DATA\030218\DM104.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	21:22:00	
I:\ACQUDATA\5973A\DATA\030218\DM105.D\	ZZZZZZZ	ZZZZZZZ	3/2/2018	21:50:00	

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801804

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**582423  
**Instrument ID:**R-MS-51

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQU\DATA\5973A\DATA\030518\DM110.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	07:34:00	
I:\ACQU\DATA\5973A\DATA\030518\DM110.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	07:34:00	
I:\ACQU\DATA\5973A\DATA\030518\DM112.D\	Continuing Calibration Verification	RQ1801937-04	3/5/2018	08:35:00	
I:\ACQU\DATA\5973A\DATA\030518\DM112.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	08:35:00	
I:\ACQU\DATA\5973A\DATA\030518\DM114.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	09:34:00	
I:\ACQU\DATA\5973A\DATA\030518\DM115.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	10:03:00	
I:\ACQU\DATA\5973A\DATA\030518\DM116.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	10:31:00	
I:\ACQU\DATA\5973A\DATA\030518\DM117.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	10:59:00	
I:\ACQU\DATA\5973A\DATA\030518\DM118.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	11:28:00	
I:\ACQU\DATA\5973A\DATA\030518\DM119.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	11:56:00	
I:\ACQU\DATA\5973A\DATA\030518\DM120.D\	Method Blank	RQ1801883-01	3/5/2018	12:25:00	
I:\ACQU\DATA\5973A\DATA\030518\DM121.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	12:53:00	
I:\ACQU\DATA\5973A\DATA\030518\DM122.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	13:22:00	
I:\ACQU\DATA\5973A\DATA\030518\DM123.D\	ZZZZZZZ	ZZZZZZZ	3/5/2018	13:50:00	
I:\ACQU\DATA\5973A\DATA\030518\DM124.D\	TP-14 (8.5)	R1801804-005	3/5/2018	14:18:00	

AM 3/5/18

Analysis: 3/5/18 8270/625

Analyst: OMIS, Vreure

Run Method: 8270A / TUNE

Date: 3/5/18

Instr. 5973A R-MS-51

Quant Method:

Syringes:

LIMS Run#: SP423

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			DM109	-	
2	TUNE		184894	10	Y	
3	CCV	30 $\mu$ L	188222 188321	11	(N)	
4	CCV	$\downarrow$	$\downarrow$	12	Y	
5	Blk			13	Y	
6	R1801807-004		309190	14	Y	
7	-006			15	Y	
8	-002	200 $\mu$ L		16	Y	
9	-003	5.0 $\mu$ L		17	Y	
10	-005			18	Y	
11	-001			19	Y	
12	R1801883-01	MS	309201	20	Y	
13	R1801792-006			21	Y	
14	-010			22	Y	
15	-011			23	Y	
16	R1801804-005			24	Y	

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_ exp: \_\_\_\_\_

All samples = 1 mL + 10  $\mu$ L Combined IS/Surr.; 188246



Analysis: 8270/025  
 Date: 3/21/8  
 Syringes: \_\_\_\_\_

Analyst: AMISW...  
 Instr. 5973A R-MS-51

Run Method: 8270A | TMRP  
 Quant Method: 8270 012318A.S.M

LIMS Run#: 582266

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			DM085	-	
2	TUNE			86	Y	
3	CCV	30, $\mu$ L	184894	87	Y	
3	Blk		185222 188377	88	Y	
4	R1801807-001		309190	89	(N)	opt to confirm Surr 9
5	-002			90	(N)	RPT 1/200
6	-003			91	(N)	RPT 1/5
7	-004			92	(N)	RPT carry over?
8	-005			93	(N)	Repeat to confirm Surr 9
9	-006	5.0		94	(N)	RPT 1/1
10	-007			95	Y	
11	-008			96	Y	
12	RQ1801883-01	Blk	309261	97	(N)	RPT to confirm Surr 9
13	-02	LCS	82705	98	Y	
14	-03	LCS		99	Y	
15	R1801792-006			100	(N)	1570 to rpt
16	RQ1801883-04			01	Y	
17	-05			02	Y	
18	R1801792-007			03	Y	
19	-008			04	Y	
20	-009			05	Y	
21	-010			06	(N)	OUT OF TUNE
22	-011			07	Y	
23	R1801804-005			08	Y	

All samples = 1 mL + 10  $\mu$ L Combined IS/Surr.; 188246

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

Analysis: 5270/625  
 Date: 1/23/18  
 Syringes: \_\_\_\_\_

Analyst: DMIS/ur-w/12  
 Instr. 5973A R-MS-51

Run Method: 5270A/TUNE  
 Quant Method: 5270 01231 84m

LIMS Run#: \_\_\_\_\_

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			DL621	-	
2	Tune		184894	22	Y	
3	Blk			23	Y	
4	2.5 <u>ppm STD</u>		187471	24	Y	
5	5.0		72	25	Y	
6	10		73	26	Y	
7	50		74	27	Y	
8	50		75	28	Y	
9	100		76	29	Y	
10	120		77	30	Y	
11	160		78	31	Y	
12	ICV		79	32	Y	

Ours 1/24/18

All samples = 1 mL + 10 uL Combined IS/Surr.; 185797

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_ Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

ALS Group USA, Corp.  
dba ALS Environmental

Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1801804

Semivolatile Organic Compounds by GC/MS

**Prep Method:** EPA 3541  
**Analytical Method:** 8270D

**Extraction Lot:** 309261  
**Extraction Date:** 03/02/18 09:40

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
TP-14 (8.5)	R1801804-005	2/16/18	2/19/18	30.2300 g	1 mL	81.4
Method Blank	RQ1801883-01MB	NA	NA	30.0 g	1 mL	
Lab Control Sample	RQ1801883-02LCS	NA	NA	30.0 g	1 mL	
Duplicate Lab Control Sample	RQ1801883-03DLCS	NA	NA	30.0 g	1 mL	

# Preparation Information Benchsheet

Prep Run#: 309261  
 Team: Semivoa GCMS/JMSIUREWICZ

Prep WorkFlow: OrgExtS(14)  
 Prep Method: EPA 3541

Status: Prepped  
 Prep Date/Time: 3/2/18 09:40 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801883-01	MB		30.0g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
2	RQ1801883-02	LCS		30.0g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/188214; 1.0000 mL/188035; 1.0000 mL/187974; 1.0000 mL/187635	
3	RQ1801883-03	DLCS		30.0g	8270D/SVO				1.00mL	Sand	1.0000 mL/188214; 1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035	
4	R1801792-006	M-1	.07	30.0500g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
5	RQ1801883-04	R1801792-006 MS	.07	30.0100g	8270D/SVO				1.00mL	Sand	1.0000 mL/187635; 1.0000 mL/187974; 1.0000 mL/188035; 1.0000 mL/188214	
6	RQ1801883-05	R1801792-006 DMS	.07	30.1100g	8270D/SVO				1.00mL	Sand	1.0000 mL/187635; 1.0000 mL/188214; 1.0000 mL/187974; 1.0000 mL/188035	
7	R1801792-007	M-2	.02	30.2600g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
8	R1801792-008	M-3	.07	30.3100g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
9	R1801792-009	M-4	.07	30.0200g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
10	R1801792-010	WH-1	.01	30.0900g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
11	R1801792-011	WH-2	.01	30.1900g	8270D/SVO				1.00mL	Brown/Fine	1.0000 mL/187974	
12	R1801804-005	TP-14 (8.5)	.02	30.2300g	8270D/SVO				1.00mL	Brown/Medium	1.0000 mL/187974	

### Spiking Solutions

Name:	8270 LCS-NSI	Inventory ID	187635	Logbook Ref.		Expires On:	06/30/2018	Lot #:	122017
Name:	8270 Soil Surrogate 100-200ppm	Inventory ID	187974	Logbook Ref.		Expires On:	08/11/2018		
Name:	OLM/SOM additional Spike 100ppm	Inventory ID	188035	Logbook Ref.		Expires On:	06/03/2018		
Name:	Benzidine LCS Spike 100ppm	Inventory ID	188214	Logbook Ref.		Expires On:	08/25/2018		

### Preparation Materials

Boiling Stones PTFE	(187987)	Eppendorf Pipette Repeater	EXT #18 (184837)
Dichloromethane (Methylene Chloride) 99.9% MeCl2	canister (187394)	Prepared Sodium Sulfate Na2SO4	(188345)
		50:50 Dichloromethane:Acetone	(188340)
		Sand Reagent Grade	(187622)

### Preparation Steps

Step:	Extraction	Concentration	Extraction Complete
Started:	3/2/18 09:40	3/2/18 13:25	3/2/18 14:45
Finished:	3/2/18 13:25	3/2/18 14:40	3/2/18 14:45
By:	JMSIUREWICZ	JMSIUREWICZ	JMSIUREWICZ
Comments	Comments	Comments	Comments

# Preparation Information Benchsheet

Prep Run#: 309261  
Team: Semivoa GCMS/JMISIUREWICZ

Prep WorkFlow: OrgExtS(14)  
Prep Method: EPA 3541

Status: Prepped  
Prep Date/Time: 3/2/18 09:40 AM

Comments:

Reviewed By: MUGER Date: 3/5/18 Spike Witness: MCYMBAL Date:

Chain of Custody

Reinquinshed By: \_\_\_\_\_ Date: \_\_\_\_\_

Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Extracts Examined  
Yes No



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Day Environmental, Incorporated      **Service Request:** TP-01 (5.0)  
**Project No.:** R1801804      **Date Collected:** 2/15/2018  
**Project Name:**      **Date Received:** 2/19/2018  
**Matrix:** SOIL      **Units:** mg/Kg  
**Basis:**

**Sample Name:** TP-01 (5.0)      **Lab Code:** R1801804-004

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	6010C	1.1	0.316	1.0	2.0		
Barium	6010C	2.2	0.080	1.0	25.5		
Cadmium	6010C	0.545	0.018	1.0	0.087	J	
Mercury	7471B	0.035	0.010	1.0	0.035	U	
Chromium	6010C	1.1	0.099	1.0	5.1		
Lead	6010C	5.5	0.212	1.0	3.5	J	
Selenium	6010C	1.1	0.411	1.0	1.1	U	
Silver	6010C	1.1	0.072	1.0	1.1	U	

% Solids: 89.0

Comments:





# Metals Cover Page

Analyst: NM

Date: 7/10/18

Instrument: ICPL6

Data File: Lamar Blot

Reviewed By: CK 7/11/18

Entered By: CK 7/11/18

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
5827089 CK 7/11/18	TAL+B (-Zn)	309408	6010C	Zn	

582710	TAL+BSn (-Zn)	309226	6010C	Zn	




## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

**ICP-6 Run Log**  
Serial number: MY15340001

Analyst: NM

Date: 3/6/18

Data File: 6MAR06A

	Prep Date	Lot #		Prep Date	Lot #
MRL	1/29/18	M7620094C	Cal Std 1	2/28/18	M7620014F
ICSA	1/30/17	M7620109C	Cal Std 2	2/27/18	M7620024L
IC SAB	1/29/18	M7620116E	Cal Std 5/ HLCCV1	3/6/18	M7620035P
Int. Std	3/6/18	M7620126L	ICV/CCV	3/6/18	M7620054BB
HLCCV3	2/27/18	M7620087P	HLCCV2	2/27/18	M7620074H

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NH03	HCl	Pipet Used	DOD Pipet Verification	IEC Date
	M7600003T	M7600004D	M2S.M3S	-	-

	PBS-309408	S1:6	Continuing Calibration Verification
	LCSS-309408	S1:7	Continuing Calibration Blank
	R1801700-001	S1:3	Contract Required Detection Limit
	R1801700-002	S1:4	Interference Check Solution A
	R1801700-003	S1:5	Interference Check Solution AB
	R1801700-004	S1:21	HLCCV2
	R1801700-005	S1:22	HLCCV3
	R1801700-006	S1:23	HLCCV1
	R1801700-007	S1:6	Continuing Calibration Verification
10	R1801739-001	S1:7	Continuing Calibration Blank
16	Continuing Calibration Verification	1:34	PBW-309226
17	Continuing Calibration Blank	1:35	LCSW-309226
11	R1801792-001	1:36	R1801639-001 10X
12	R1801792-002	1:37	R1801639-002 10X
13	R1801792-003	1:38	R1801639-005 10X
14	R1801792-004	1:39	R1801639-007 10X
15	R1801792-005	1:40	R1801639-008 10X
16	R1801792-006	1:41	R1801639-009 10X
17	R1801792-007	1:42	R1801639-012 10X
18	R1801792-008	1:43	R1801639-012L 10X
19	R1801792-009	S1:6	Continuing Calibration Verification
20	R1801804-004	S1:7	Continuing Calibration Blank
1:6	Continuing Calibration Verification	1:44	R1801639-009 100X
1:7	Continuing Calibration Blank	1:45	R1801639-005 1000X
21	R1801804-004S	1:46	PBW-309352
22	R1801804-004SD	1:47	LCSW-309352
23	R1801804-004A	1:48	R1801805-001
24	R1801804-004L	1:49	R1801805-001L
25	R1801804-005	S1:6	Continuing Calibration Verification
26	R1801809-001	S1:7	Continuing Calibration Blank
27	R1801700-001 10X	S1:3	Contract Required Detection Limit
28	R1801700-002 10X	S1:4	Interference Check Solution A
1:29	R1801700-003 10X	S1:5	Interference Check Solution AB
1:30	R1801700-004 10X	S1:6	Continuing Calibration Verification
31:6	Continuing Calibration Verification	S1:7	Continuing Calibration Blank
31:7	Continuing Calibration Blank		
1:31	R1801700-005 10X		
1:32	R1801700-006 10X		
1:33	R1801700-007 10X		

*NM*  
*3/6/18*

*not in sequence  
∴ not analyzed*



Path: C:\Agilent\ICP Expert\My Results\6MAR06A.esws  
 Date created: 11/10/2015 11:09:45 AM  
 Instrument used: MY15340001  
 Software Version : 7.100.6821.61355    Firmware Version : 2994  
 Notes:

*Analyst: NM 3/6/18  
 (CH 3/7/18)*

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:09:13	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-108.6907
3/6/2018 19:09:13	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	114.9746
3/6/2018 19:09:13	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.7415
3/6/2018 19:09:13	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	72.6967
3/6/2018 19:09:13	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	1.1553
3/6/2018 19:09:13	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-506.1143
3/6/2018 19:09:13	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.2316
3/6/2018 19:09:13	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	13.8263
3/6/2018 19:09:13	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-8.2849
3/6/2018 19:09:13	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.6531
3/6/2018 19:09:13	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	18.6076
3/6/2018 19:09:13	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	19.6919
3/6/2018 19:09:13	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	18.6251
3/6/2018 19:09:13	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5.8983
3/6/2018 19:09:13	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.3741
3/6/2018 19:09:13	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	7.1926
3/6/2018 19:09:13	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-7990.8984
3/6/2018 19:09:13	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-23.8169
3/6/2018 19:09:13	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.7732
3/6/2018 19:09:13	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	2.1162
3/6/2018 19:09:13	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.6608
3/6/2018 19:09:13	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.5838
3/6/2018 19:09:13	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.9434
3/6/2018 19:09:13	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-576.8086
3/6/2018 19:09:13	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	18.7232
3/6/2018 19:09:13	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	136.1860
3/6/2018 19:09:13	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	733517.56
3/6/2018 19:09:13	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	733410.03
3/6/2018 19:09:13	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-26.7449
3/6/2018 19:12:35	Standard 1	Ag (328.068 nm)		N/A		-103.0014
3/6/2018 19:12:35	Standard 1	Al (394.401 nm)		N/A		291.9305
3/6/2018 19:12:35	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	2.9426
3/6/2018 19:12:35	Standard 1	B (249.772 nm)		N/A		63.4508
3/6/2018 19:12:35	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	609.5728
3/6/2018 19:12:35	Standard 1	Be (313.107 nm)		N/A		-499.4842
3/6/2018 19:12:35	Standard 1	Ca (227.547 nm)		N/A		28.7784
3/6/2018 19:12:35	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	35.8505
3/6/2018 19:12:35	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	17.0326
3/6/2018 19:12:35	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	215.4846
3/6/2018 19:12:35	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	574.5829

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:12:35	Standard 1	Fe (234.350 nm)		N/A		20.7558
3/6/2018 19:12:35	Standard 1	K (766.491 nm)		N/A		4404.2032
3/6/2018 19:12:35	Standard 1	Mg (279.078 nm)		N/A		859.1771
3/6/2018 19:12:35	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	2892.5556
3/6/2018 19:12:35	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	216.2365
3/6/2018 19:12:35	Standard 1	Na (588.995 nm)		N/A		8967.9457
3/6/2018 19:12:35	Standard 1	Ni (230.299 nm)		N/A		-20.8340
3/6/2018 19:12:35	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	11.0141
3/6/2018 19:12:35	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	13.7924
3/6/2018 19:12:35	Standard 1	Se (196.026 nm)		N/A		-2.9142
3/6/2018 19:12:35	Standard 1	Sn (189.925 nm)		N/A		0.3002
3/6/2018 19:12:35	Standard 1	Sr (216.596 nm)		N/A		-1.8471
3/6/2018 19:12:35	Standard 1	Ti (336.122 nm)		N/A		-588.9229
3/6/2018 19:12:35	Standard 1	Ti (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	42.2310
3/6/2018 19:12:35	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	222.1171
3/6/2018 19:12:35	Standard 1	Y (360.074 nm)	1.01 (Ratio)	0.91	1.01 (Ratio)	740188.16
3/6/2018 19:12:35	Standard 1	Y_R (360.074 nm)	1.01 (Ratio)	0.92	1.01 (Ratio)	740308.03
3/6/2018 19:12:35	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	228.5661
3/6/2018 19:15:57	Standard 2	Ag (328.068 nm)		N/A		-105.4832
3/6/2018 19:15:57	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1045.4698
3/6/2018 19:15:57	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	4.8560
3/6/2018 19:15:57	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4642.6029
3/6/2018 19:15:57	Standard 2	Ba (230.424 nm)		N/A		1.3752
3/6/2018 19:15:57	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3138.0361
3/6/2018 19:15:57	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	52.0138
3/6/2018 19:15:57	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	111.2552
3/6/2018 19:15:57	Standard 2	Co (230.786 nm)		N/A		-5.5245
3/6/2018 19:15:57	Standard 2	Cr (267.716 nm)		N/A		10.7022
3/6/2018 19:15:57	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1016.6142
3/6/2018 19:15:57	Standard 2	Fe (234.350 nm)		N/A		25.8125
3/6/2018 19:15:57	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4385.8561
3/6/2018 19:15:57	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1725.3223
3/6/2018 19:15:57	Standard 2	Mn (257.610 nm)		N/A		16.7427
3/6/2018 19:15:57	Standard 2	Mo (202.032 nm)		N/A		6.1725
3/6/2018 19:15:57	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	25745.8694
3/6/2018 19:15:57	Standard 2	Ni (230.299 nm)		N/A		-22.9329
3/6/2018 19:15:57	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	106.9604
3/6/2018 19:15:57	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	70.7020
3/6/2018 19:15:57	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	2.0468
3/6/2018 19:15:57	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	523.8469
3/6/2018 19:15:57	Standard 2	Sr (216.596 nm)		N/A		-4.6102
3/6/2018 19:15:57	Standard 2	Ti (336.122 nm)		N/A		-605.2388
3/6/2018 19:15:57	Standard 2	Ti (351.923 nm)		N/A		18.5151
3/6/2018 19:15:57	Standard 2	V (292.401 nm)		N/A		138.3488
3/6/2018 19:15:57	Standard 2	Y (360.074 nm)	1.00 (Ratio)	1.57	1.00 (Ratio)	734715.86
3/6/2018 19:15:57	Standard 2	Y_R (360.074 nm)	1.00 (Ratio)	1.57	1.00 (Ratio)	735085.33
3/6/2018 19:15:57	Standard 2	Zn (213.857 nm)		N/A		-28.9495
3/6/2018 19:19:19	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	484.1786
3/6/2018 19:19:19	Standard 3	Al (394.401 nm)		N/A		1938.3695
3/6/2018 19:19:19	Standard 3	As (188.980 nm)		N/A		12.5954
3/6/2018 19:19:19	Standard 3	B (249.772 nm)		N/A		1209.6898

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:19:19	Standard 3	Ba (230.424 nm)		N/A		6110.1625
3/6/2018 19:19:19	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	5564.2186
3/6/2018 19:19:19	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	27.7990
3/6/2018 19:19:19	Standard 3	Cd (214.439 nm)		N/A		214.2385
3/6/2018 19:19:19	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	448.4600
3/6/2018 19:19:19	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	422.0782
3/6/2018 19:19:19	Standard 3	Cu (327.395 nm)		N/A		1212.3146
3/6/2018 19:19:19	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1016.2195
3/6/2018 19:19:19	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1130.5722
3/6/2018 19:19:19	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	859.5112
3/6/2018 19:19:19	Standard 3	Mn (257.610 nm)		N/A		4226.9845
3/6/2018 19:19:19	Standard 3	Mo (202.032 nm)		N/A		420.6301
3/6/2018 19:19:19	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	9001.4325
3/6/2018 19:19:19	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	229.5899
3/6/2018 19:19:19	Standard 3	Pb (220.353 nm)		N/A		22.3112
3/6/2018 19:19:19	Standard 3	Sb (217.582 nm)		N/A		116.7838
3/6/2018 19:19:19	Standard 3	Se (196.026 nm)		N/A		5.1745
3/6/2018 19:19:19	Standard 3	Sn (189.925 nm)		N/A		105.4282
3/6/2018 19:19:19	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	629.2036
3/6/2018 19:19:19	Standard 3	Tl (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	7865.6156
3/6/2018 19:19:19	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	55.6217
3/6/2018 19:19:19	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	1644.3032
3/6/2018 19:19:19	Standard 3	Y (360.074 nm)	1.00 (Ratio)	2.22	1.00 (Ratio)	737039.79
3/6/2018 19:19:19	Standard 3	Y_R (360.074 nm)	1.01 (Ratio)	2.22	1.01 (Ratio)	737581.84
3/6/2018 19:19:19	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	471.9513
3/6/2018 19:22:42	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	11753.2926
3/6/2018 19:22:42	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	39003.4837
3/6/2018 19:22:42	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	290.5149
3/6/2018 19:22:42	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	23402.7492
3/6/2018 19:22:42	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	120588.0666
3/6/2018 19:22:42	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	124041.8458
3/6/2018 19:22:42	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	452.4108
3/6/2018 19:22:42	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4036.2900
3/6/2018 19:22:42	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	9104.6973
3/6/2018 19:22:42	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	8354.3527
3/6/2018 19:22:42	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	24057.8381
3/6/2018 19:22:42	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	19835.9666
3/6/2018 19:22:42	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	23453.4661
3/6/2018 19:22:42	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	17385.6978
3/6/2018 19:22:42	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	83432.4395
3/6/2018 19:22:42	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	8396.9610
3/6/2018 19:22:42	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	331212.6625
3/6/2018 19:22:42	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	5027.5064
3/6/2018 19:22:42	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	397.7642
3/6/2018 19:22:42	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2362.4119
3/6/2018 19:22:42	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	143.0390
3/6/2018 19:22:42	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2113.3354
3/6/2018 19:22:42	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	12571.1057
3/6/2018 19:22:42	Standard 4	Tl (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	169479.8620
3/6/2018 19:22:42	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	811.4050
3/6/2018 19:22:42	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	30805.6787

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:22:42	Standard 4	Y (360.074 nm)	0.99 (Ratio)	1.75	0.99 (Ratio)	725537.81
3/6/2018 19:22:42	Standard 4	Y_R (360.074 nm)	0.99 (Ratio)	1.75	0.99 (Ratio)	726360.01
3/6/2018 19:22:42	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	9932.2453
3/6/2018 19:26:04	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	60210.9345
3/6/2018 19:26:04	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	208432.9227
3/6/2018 19:26:04	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1468.8047
3/6/2018 19:26:04	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	118761.1665
3/6/2018 19:26:04	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	579124.0856
3/6/2018 19:26:04	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	620454.3162
3/6/2018 19:26:04	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2355.8173
3/6/2018 19:26:04	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	19668.7583
3/6/2018 19:26:04	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	44652.0195
3/6/2018 19:26:04	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	41126.9694
3/6/2018 19:26:04	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	122134.8318
3/6/2018 19:26:04	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	96500.3762
3/6/2018 19:26:04	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	123222.7000
3/6/2018 19:26:04	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	86840.4936
3/6/2018 19:26:04	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	405253.2363
3/6/2018 19:26:04	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	41775.3882
3/6/2018 19:26:04	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	1700795.6930
3/6/2018 19:26:04	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	24493.0793
3/6/2018 19:26:04	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1922.8496
3/6/2018 19:26:04	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	11775.5091
3/6/2018 19:26:04	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	725.5502
3/6/2018 19:26:04	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	10284.6562
3/6/2018 19:26:04	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	61495.4724
3/6/2018 19:26:04	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	842559.2563
3/6/2018 19:26:04	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4189.2775
3/6/2018 19:26:04	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	152520.5990
3/6/2018 19:26:04	Standard 5	Y (360.074 nm)	0.96 (Ratio)	0.77	0.96 (Ratio)	700696.47
3/6/2018 19:26:04	Standard 5	Y_R (360.074 nm)	0.96 (Ratio)	0.77	0.96 (Ratio)	701782.08
3/6/2018 19:26:04	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	50178.1073
3/6/2018 19:29:25	Initial Calibration Verification	Ag (328.068 nm)	0.4807 (ppm)	0.53	0.4807 (ppm)	28868.5321
3/6/2018 19:29:25	Initial Calibration Verification	Al (394.401 nm)	9.6726 (ppm)	0.45	9.6726 (ppm)	100605.1871
3/6/2018 19:29:25	Initial Calibration Verification	As (188.980 nm)	0.9600 (ppm)	1.00	0.9600 (ppm)	704.3977
3/6/2018 19:29:25	Initial Calibration Verification	B (249.772 nm)	2.4514 (ppm)	0.46	2.4514 (ppm)	58220.8920
3/6/2018 19:29:25	Initial Calibration Verification	Ba (230.424 nm)	10.2935 (ppm)	0.62	10.2935 (ppm)	298531.4822
3/6/2018 19:29:25	Initial Calibration Verification	Be (313.107 nm)	0.2515 (ppm)	0.56	0.2515 (ppm)	311810.2173
3/6/2018 19:29:25	Initial Calibration Verification	Ca (227.547 nm)	24.1177 (ppm)	0.59	24.1177 (ppm)	1137.3436
3/6/2018 19:29:25	Initial Calibration Verification	Cd (214.439 nm)	0.5008 (ppm)	0.44	0.5008 (ppm)	9864.9346
3/6/2018 19:29:25	Initial Calibration Verification	Co (230.786 nm)	2.5828 (ppm)	0.50	2.5828 (ppm)	23079.5172
3/6/2018 19:29:25	Initial Calibration Verification	Cr (267.716 nm)	0.5200 (ppm)	0.37	0.5200 (ppm)	21400.7654
3/6/2018 19:29:25	Initial Calibration Verification	Cu (327.395 nm)	1.2263 (ppm)	0.53	1.2263 (ppm)	59882.3482
3/6/2018 19:29:25	Initial Calibration Verification	Fe (234.350 nm)	5.0514 (ppm)	0.40	5.0514 (ppm)	48806.7624
3/6/2018 19:29:25	Initial Calibration Verification	K (766.491 nm)	23.7649 (ppm)	0.71	23.7649 (ppm)	58456.3913
3/6/2018 19:29:25	Initial Calibration Verification	Mg (279.078 nm)	24.9387 (ppm)	0.44	24.9387 (ppm)	43312.8103
3/6/2018 19:29:25	Initial Calibration Verification	Mn (257.610 nm)	0.7654 (ppm)	0.40	0.7654 (ppm)	207032.9881
3/6/2018 19:29:25	Initial Calibration Verification	Mo (202.032 nm)	2.3597 (ppm)	0.35	2.3597 (ppm)	19722.3790
3/6/2018 19:29:25	Initial Calibration Verification	Na (588.995 nm)	24.5631 (ppm)	0.65	24.5631 (ppm)	831226.9308
3/6/2018 19:29:25	Initial Calibration Verification	Ni (230.299 nm)	2.0526 (ppm)	0.59	2.0526 (ppm)	12571.8975
3/6/2018 19:29:25	Initial Calibration Verification	Pb (220.353 nm)	0.5014 (ppm)	0.63	0.5014 (ppm)	968.3598

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:29:25	Initial Calibration Verification	Sb (217.582 nm)	4.9543 (ppm)	0.77	4.9543 (ppm)	5835.5815
3/6/2018 19:29:25	Initial Calibration Verification	Se (196.026 nm)	0.4829 (ppm)	1.67	0.4829 (ppm)	349.4578
3/6/2018 19:29:25	Initial Calibration Verification	Sn (189.925 nm)	5.0643 (ppm)	0.52	5.0643 (ppm)	5214.4479
3/6/2018 19:29:25	Initial Calibration Verification	Sr (216.596 nm)	2.5311 (ppm)	0.38	2.5311 (ppm)	31155.1463
3/6/2018 19:29:25	Initial Calibration Verification	Ti (336.122 nm)	2.5070 (ppm)	0.40	2.5070 (ppm)	422313.3146
3/6/2018 19:29:25	Initial Calibration Verification	Tl (351.923 nm)	0.9911 (ppm)	0.65	0.9911 (ppm)	2081.5642
3/6/2018 19:29:25	Initial Calibration Verification	V (292.401 nm)	2.5201 (ppm)	0.34	2.5201 (ppm)	76959.6187
3/6/2018 19:29:25	Initial Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.99	0.98 (Ratio)	716149.08
3/6/2018 19:29:25	Initial Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.99	0.98 (Ratio)	717280.81
3/6/2018 19:29:25	Initial Calibration Verification	Zn (213.857 nm)	1.1635 Q (ppm)	0.46	1.1635 (ppm)	29171.6333 Q
3/6/2018 19:32:46	Initial Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-107.6377
3/6/2018 19:32:46	Initial Calibration Blank	Al (394.401 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	118.0869
3/6/2018 19:32:46	Initial Calibration Blank	As (188.980 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.0078
3/6/2018 19:32:46	Initial Calibration Blank	B (249.772 nm)	0.0042 (ppm)	18.11	0.0042 (ppm)	173.0425
3/6/2018 19:32:46	Initial Calibration Blank	Ba (230.424 nm)	0.0015 (ppm)	30.28	0.0015 (ppm)	45.4985
3/6/2018 19:32:46	Initial Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	15.87	0.0000 (ppm)	-449.5230
3/6/2018 19:32:46	Initial Calibration Blank	Ca (227.547 nm)	-0.0526 u (ppm)	98.71	-0.0526 (ppm)	3.7670
3/6/2018 19:32:46	Initial Calibration Blank	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.4999
3/6/2018 19:32:46	Initial Calibration Blank	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-7.4942
3/6/2018 19:32:46	Initial Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	0.9896
3/6/2018 19:32:46	Initial Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	26.74	0.0001 (ppm)	23.7405
3/6/2018 19:32:46	Initial Calibration Blank	Fe (234.350 nm)	0.0008 (ppm)	12.21	0.0008 (ppm)	27.2930
3/6/2018 19:32:46	Initial Calibration Blank	K (766.491 nm)	0.0283 (ppm)	46.51	0.0283 (ppm)	88.1785
3/6/2018 19:32:46	Initial Calibration Blank	Mg (279.078 nm)	0.0018 (ppm)	64.82	0.0018 (ppm)	-2.8556
3/6/2018 19:32:46	Initial Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	43.72	0.0001 (ppm)	33.3649
3/6/2018 19:32:46	Initial Calibration Blank	Mo (202.032 nm)	0.0010 (ppm)	14.40	0.0010 (ppm)	15.2087
3/6/2018 19:32:46	Initial Calibration Blank	Na (588.995 nm)	0.0130 (ppm)	28.61	0.0130 (ppm)	-7547.5651
3/6/2018 19:32:46	Initial Calibration Blank	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-22.1580
3/6/2018 19:32:46	Initial Calibration Blank	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.7853
3/6/2018 19:32:46	Initial Calibration Blank	Sb (217.582 nm)	0.0021 (ppm)	87.62	0.0021 (ppm)	4.5933
3/6/2018 19:32:46	Initial Calibration Blank	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.6170
3/6/2018 19:32:46	Initial Calibration Blank	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.8850
3/6/2018 19:32:46	Initial Calibration Blank	Sr (216.596 nm)	0.0005 (ppm)	32.43	0.0005 (ppm)	2.8348
3/6/2018 19:32:46	Initial Calibration Blank	Ti (336.122 nm)	0.0007 (ppm)	7.98	0.0007 (ppm)	-459.7053
3/6/2018 19:32:46	Initial Calibration Blank	Tl (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	16.6503
3/6/2018 19:32:46	Initial Calibration Blank	V (292.401 nm)	0.0006 (ppm)	20.37	0.0006 (ppm)	153.6817
3/6/2018 19:32:46	Initial Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	3.29	1.00 (Ratio)	733358.27
3/6/2018 19:32:46	Initial Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	3.29	1.00 (Ratio)	734450.89
3/6/2018 19:32:46	Initial Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-27.8762
3/6/2018 19:36:07	Contract Required Detection Limit	Ag (328.068 nm)	0.0101 (ppm)	10.22	0.0101 (ppm)	498.8280
3/6/2018 19:36:07	Contract Required Detection Limit	Al (394.401 nm)	0.1880 (ppm)	9.29	0.1880 (ppm)	2067.7836
3/6/2018 19:36:07	Contract Required Detection Limit	As (188.980 nm)	0.0202 (ppm)	2.03	0.0202 (ppm)	14.0803
3/6/2018 19:36:07	Contract Required Detection Limit	B (249.772 nm)	0.2078 (ppm)	8.46	0.2078 (ppm)	5002.6761
3/6/2018 19:36:07	Contract Required Detection Limit	Ba (230.424 nm)	0.2181 (ppm)	8.78	0.2181 (ppm)	6326.8072
3/6/2018 19:36:07	Contract Required Detection Limit	Be (313.107 nm)	0.0051 (ppm)	7.98	0.0051 (ppm)	5841.4521
3/6/2018 19:36:07	Contract Required Detection Limit	Ca (227.547 nm)	1.0118 (ppm)	14.60	1.0118 (ppm)	53.6839
3/6/2018 19:36:07	Contract Required Detection Limit	Cd (214.439 nm)	0.0106 (ppm)	7.70	0.0106 (ppm)	222.6288
3/6/2018 19:36:07	Contract Required Detection Limit	Co (230.786 nm)	0.0536 (ppm)	9.06	0.0536 (ppm)	470.4720
3/6/2018 19:36:07	Contract Required Detection Limit	Cr (267.716 nm)	0.0106 (ppm)	7.23	0.0106 (ppm)	434.4099
3/6/2018 19:36:07	Contract Required Detection Limit	Cu (327.395 nm)	0.0256 (ppm)	9.98	0.0256 (ppm)	1266.2214
3/6/2018 19:36:07	Contract Required Detection Limit	Fe (234.350 nm)	0.1079 (ppm)	8.51	0.1079 (ppm)	1062.0983

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:36:07	Contract Required Detection Limit	K (766.491 nm)	0.9541 (ppm)	10.73	0.9541 (ppm)	2364.8066
3/6/2018 19:36:07	Contract Required Detection Limit	Mg (279.078 nm)	1.0618 (ppm)	8.62	1.0618 (ppm)	1838.5226
3/6/2018 19:36:07	Contract Required Detection Limit	Mn (257.610 nm)	0.0161 (ppm)	8.58	0.0161 (ppm)	4356.6237
3/6/2018 19:36:07	Contract Required Detection Limit	Mo (202.032 nm)	0.0260 (ppm)	9.95	0.0260 (ppm)	224.7277
3/6/2018 19:36:07	Contract Required Detection Limit	Na (588.995 nm)	1.0440 (ppm)	6.80	1.0440 (ppm)	27676.5875
3/6/2018 19:36:07	Contract Required Detection Limit	Ni (230.299 nm)	0.0443 (ppm)	4.95	0.0443 (ppm)	248.1223
3/6/2018 19:36:07	Contract Required Detection Limit	Pb (220.353 nm)	0.0083 (ppm)	13.46	0.0083 (ppm)	22.6194
3/6/2018 19:36:07	Contract Required Detection Limit	Sb (217.582 nm)	0.0632 (ppm)	5.91	0.0632 (ppm)	76.5103
3/6/2018 19:36:07	Contract Required Detection Limit	Se (196.026 nm)	0.0093 (ppm)	32.42	0.0093 (ppm)	5.1081
3/6/2018 19:36:07	Contract Required Detection Limit	Sn (189.925 nm)	0.5293 (ppm)	8.66	0.5293 (ppm)	545.4678
3/6/2018 19:36:07	Contract Required Detection Limit	Sr (216.596 nm)	0.1066 (ppm)	8.88	0.1066 (ppm)	1309.5123
3/6/2018 19:36:07	Contract Required Detection Limit	Ti (336.122 nm)	0.0529 (ppm)	8.02	0.0529 (ppm)	8354.3703
3/6/2018 19:36:07	Contract Required Detection Limit	Tl (351.923 nm)	0.0186 (ppm)	27.40	0.0186 (ppm)	57.4560
3/6/2018 19:36:07	Contract Required Detection Limit	V (292.401 nm)	0.0511 (ppm)	9.66	0.0511 (ppm)	1692.8159
3/6/2018 19:36:07	Contract Required Detection Limit	Y (360.074 nm)	0.98 (Ratio)	8.32	0.98 (Ratio)	716118.92
3/6/2018 19:36:07	Contract Required Detection Limit	Y_R (360.074 nm)	0.98 (Ratio)	8.32	0.98 (Ratio)	717372.84
3/6/2018 19:36:07	Contract Required Detection Limit	Zn (213.857 nm)	0.0210 (ppm)	8.15	0.0210 (ppm)	501.1803
3/6/2018 19:39:28	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u (ppm)	36.29	-0.0002 (ppm)	-122.0986
3/6/2018 19:39:28	Interference Check Solution A	Al (394.401 nm)	267.7300 o (ppm)	0.49	267.7300 (ppm)	2781612.5939
3/6/2018 19:39:28	Interference Check Solution A	As (188.980 nm)	0.0022 (ppm)	30.47	0.0022 (ppm)	0.8703
3/6/2018 19:39:28	Interference Check Solution A	B (249.772 nm)	0.0495 (ppm)	1.42	0.0495 (ppm)	1246.2609
3/6/2018 19:39:28	Interference Check Solution A	Ba (230.424 nm)	0.0006 (ppm)	26.33	0.0006 (ppm)	18.8543
3/6/2018 19:39:28	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	26.44	0.0000 (ppm)	-564.5887
3/6/2018 19:39:28	Interference Check Solution A	Ca (227.547 nm)	268.9986 o (ppm)	0.44	268.9986 (ppm)	12622.1618
3/6/2018 19:39:28	Interference Check Solution A	Cd (214.439 nm)	-0.0014 Ku (ppm)	13.73	-0.0014 (ppm)	-12.7757 K
3/6/2018 19:39:28	Interference Check Solution A	Co (230.786 nm)	-0.0024 u (ppm)	17.02	-0.0024 (ppm)	-29.5859
3/6/2018 19:39:28	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	9.5529
3/6/2018 19:39:28	Interference Check Solution A	Cu (327.395 nm)	0.0009 (ppm)	10.98	0.0009 (ppm)	63.4990
3/6/2018 19:39:28	Interference Check Solution A	Fe (234.350 nm)	93.0228 o (ppm)	0.42	93.0228 (ppm)	898443.1496
3/6/2018 19:39:28	Interference Check Solution A	K (766.491 nm)	0.1020 (ppm)	17.43	0.1020 (ppm)	269.3950
3/6/2018 19:39:28	Interference Check Solution A	Mg (279.078 nm)	266.6098 o (ppm)	0.37	266.6098 (ppm)	463098.2627
3/6/2018 19:39:28	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	1.03	0.0017 (ppm)	450.6902
3/6/2018 19:39:28	Interference Check Solution A	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	8.7438
3/6/2018 19:39:28	Interference Check Solution A	Na (588.995 nm)	-0.0132 u (ppm)	12.84	-0.0132 (ppm)	-8440.7626
3/6/2018 19:39:28	Interference Check Solution A	Ni (230.299 nm)	-0.0025 u (ppm)	19.93	-0.0025 (ppm)	-39.1225
3/6/2018 19:39:28	Interference Check Solution A	Pb (220.353 nm)	-0.0050 u (ppm)	27.01	-0.0050 (ppm)	-2.7661
3/6/2018 19:39:28	Interference Check Solution A	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	2.7168
3/6/2018 19:39:28	Interference Check Solution A	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-2.4367
3/6/2018 19:39:28	Interference Check Solution A	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.0526
3/6/2018 19:39:28	Interference Check Solution A	Sr (216.596 nm)	0.0191 (ppm)	3.49	0.0191 (ppm)	232.0242
3/6/2018 19:39:28	Interference Check Solution A	Ti (336.122 nm)	0.0017 (ppm)	0.59	0.0017 (ppm)	-288.5230
3/6/2018 19:39:28	Interference Check Solution A	Tl (351.923 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	22.9501
3/6/2018 19:39:28	Interference Check Solution A	V (292.401 nm)	0.0034 K (ppm)	11.08	0.0034 (ppm)	240.4953 K
3/6/2018 19:39:28	Interference Check Solution A	Y (360.074 nm)	0.90 (Ratio)	0.82	0.90 (Ratio)	658194.16
3/6/2018 19:39:28	Interference Check Solution A	Y_R (360.074 nm)	0.90 (Ratio)	0.82	0.90 (Ratio)	659815.64
3/6/2018 19:39:28	Interference Check Solution A	Zn (213.857 nm)	0.0110 K (ppm)	0.90	0.0110 (ppm)	248.2994 K
3/6/2018 19:42:48	Interference Check Solution AB	Ag (328.068 nm)	0.2123 (ppm)	7.34	0.2123 (ppm)	12691.9005
3/6/2018 19:42:48	Interference Check Solution AB	Al (394.401 nm)	265.1431 o (ppm)	7.54	265.1431 (ppm)	2754736.9734
3/6/2018 19:42:48	Interference Check Solution AB	As (188.980 nm)	0.0995 (ppm)	6.89	0.0995 (ppm)	72.3700
3/6/2018 19:42:48	Interference Check Solution AB	B (249.772 nm)	0.0500 (ppm)	8.27	0.0500 (ppm)	1257.5636
3/6/2018 19:42:48	Interference Check Solution AB	Ba (230.424 nm)	0.5251 (ppm)	7.16	0.5251 (ppm)	15229.3404



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:42:48	Interference Check Solution AB	Be (313.107 nm)	0.5010 (ppm)	7.37	0.5010 (ppm)	621753.8937
3/6/2018 19:42:48	Interference Check Solution AB	Ca (227.547 nm)	266.1997 o (ppm)	7.70	266.1997 (ppm)	12490.8963
3/6/2018 19:42:48	Interference Check Solution AB	Cd (214.439 nm)	0.9764 (ppm)	7.29	0.9764 (ppm)	19222.4394
3/6/2018 19:42:48	Interference Check Solution AB	Co (230.786 nm)	0.4952 (ppm)	7.54	0.4952 (ppm)	4418.5866
3/6/2018 19:42:48	Interference Check Solution AB	Cr (267.716 nm)	0.5080 (ppm)	7.48	0.5080 (ppm)	20906.4559
3/6/2018 19:42:48	Interference Check Solution AB	Cu (327.395 nm)	0.5319 (ppm)	7.63	0.5319 (ppm)	25985.7614
3/6/2018 19:42:48	Interference Check Solution AB	Fe (234.350 nm)	92.2935 o (ppm)	7.16	92.2935 (ppm)	891399.6349
3/6/2018 19:42:48	Interference Check Solution AB	K (766.491 nm)	0.1820 (ppm)	10.93	0.1820 (ppm)	466.2518
3/6/2018 19:42:48	Interference Check Solution AB	Mg (279.078 nm)	264.0438 o (ppm)	7.43	264.0438 (ppm)	458641.0000
3/6/2018 19:42:48	Interference Check Solution AB	Mn (257.610 nm)	0.5013 (ppm)	7.60	0.5013 (ppm)	135600.4249
3/6/2018 19:42:48	Interference Check Solution AB	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	6.0116
3/6/2018 19:42:48	Interference Check Solution AB	Na (588.995 nm)	-0.0110 u (ppm)	> 100.00	-0.0110 (ppm)	-8365.4669
3/6/2018 19:42:48	Interference Check Solution AB	Ni (230.299 nm)	0.9621 (ppm)	7.71	0.9621 (ppm)	5880.2257
3/6/2018 19:42:48	Interference Check Solution AB	Pb (220.353 nm)	0.0453 (ppm)	6.19	0.0453 (ppm)	93.5896
3/6/2018 19:42:48	Interference Check Solution AB	Sb (217.582 nm)	0.6097 (ppm)	6.94	0.6097 (ppm)	719.9984
3/6/2018 19:42:48	Interference Check Solution AB	Se (196.026 nm)	0.0510 (ppm)	6.82	0.0510 (ppm)	35.4478
3/6/2018 19:42:48	Interference Check Solution AB	Sn (189.925 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-0.8872
3/6/2018 19:42:48	Interference Check Solution AB	Sr (216.596 nm)	0.0198 (ppm)	8.08	0.0198 (ppm)	241.1558
3/6/2018 19:42:48	Interference Check Solution AB	Ti (336.122 nm)	0.0015 (ppm)	8.74	0.0015 (ppm)	-317.2914
3/6/2018 19:42:48	Interference Check Solution AB	Tl (351.923 nm)	0.1161 (ppm)	8.41	0.1161 (ppm)	260.3382
3/6/2018 19:42:48	Interference Check Solution AB	V (292.401 nm)	0.5063 (ppm)	7.49	0.5063 (ppm)	15569.2844
3/6/2018 19:42:48	Interference Check Solution AB	Y (360.074 nm)	0.90 (Ratio)	5.99	0.90 (Ratio)	663361.54
3/6/2018 19:42:48	Interference Check Solution AB	Y_R (360.074 nm)	0.91 (Ratio)	5.99	0.91 (Ratio)	665123.07
3/6/2018 19:42:48	Interference Check Solution AB	Zn (213.857 nm)	1.0166 (ppm)	7.36	1.0166 (ppm)	25484.7891
3/6/2018 19:46:09	Continuing Calibration Verification	Ag (328.068 nm)	0.4834 (ppm)	1.03	0.4834 (ppm)	29029.7178
3/6/2018 19:46:09	Continuing Calibration Verification	Al (394.401 nm)	9.7768 (ppm)	1.21	9.7768 (ppm)	101688.1478
3/6/2018 19:46:09	Continuing Calibration Verification	As (188.980 nm)	0.9619 (ppm)	1.34	0.9619 (ppm)	705.8202
3/6/2018 19:46:09	Continuing Calibration Verification	B (249.772 nm)	2.4437 (ppm)	0.89	2.4437 (ppm)	58039.9995
3/6/2018 19:46:09	Continuing Calibration Verification	Ba (230.424 nm)	10.3660 (ppm)	0.67	10.3660 (ppm)	300634.6195
3/6/2018 19:46:09	Continuing Calibration Verification	Be (313.107 nm)	0.2520 (ppm)	1.03	0.2520 (ppm)	312431.0937
3/6/2018 19:46:09	Continuing Calibration Verification	Ca (227.547 nm)	24.2532 (ppm)	1.41	24.2532 (ppm)	1143.6956
3/6/2018 19:46:09	Continuing Calibration Verification	Cd (214.439 nm)	0.5030 (ppm)	0.96	0.5030 (ppm)	9908.8459
3/6/2018 19:46:09	Continuing Calibration Verification	Co (230.786 nm)	2.5915 (ppm)	0.98	2.5915 (ppm)	23157.0066
3/6/2018 19:46:09	Continuing Calibration Verification	Cr (267.716 nm)	0.5239 (ppm)	0.97	0.5239 (ppm)	21558.7293
3/6/2018 19:46:09	Continuing Calibration Verification	Cu (327.395 nm)	1.2267 (ppm)	1.08	1.2267 (ppm)	59904.9164
3/6/2018 19:46:09	Continuing Calibration Verification	Fe (234.350 nm)	5.0759 (ppm)	1.01	5.0759 (ppm)	49043.3613
3/6/2018 19:46:09	Continuing Calibration Verification	K (766.491 nm)	23.8853 (ppm)	1.26	23.8853 (ppm)	58752.4082
3/6/2018 19:46:09	Continuing Calibration Verification	Mg (279.078 nm)	25.0901 (ppm)	0.98	25.0901 (ppm)	43575.8254
3/6/2018 19:46:09	Continuing Calibration Verification	Mn (257.610 nm)	0.7696 (ppm)	0.93	0.7696 (ppm)	208161.3994
3/6/2018 19:46:09	Continuing Calibration Verification	Mo (202.032 nm)	2.3727 (ppm)	0.89	2.3727 (ppm)	19831.5841
3/6/2018 19:46:09	Continuing Calibration Verification	Na (588.995 nm)	24.8767 (ppm)	1.27	24.8767 (ppm)	841940.6097
3/6/2018 19:46:09	Continuing Calibration Verification	Ni (230.299 nm)	2.0623 (ppm)	1.05	2.0623 (ppm)	12631.3446
3/6/2018 19:46:09	Continuing Calibration Verification	Pb (220.353 nm)	0.5026 (ppm)	1.53	0.5026 (ppm)	970.5763
3/6/2018 19:46:09	Continuing Calibration Verification	Sb (217.582 nm)	4.9772 (ppm)	1.19	4.9772 (ppm)	5862.4680
3/6/2018 19:46:09	Continuing Calibration Verification	Se (196.026 nm)	0.4865 (ppm)	0.51	0.4865 (ppm)	352.0330
3/6/2018 19:46:09	Continuing Calibration Verification	Sn (189.925 nm)	5.0844 (ppm)	0.93	5.0844 (ppm)	5235.0586
3/6/2018 19:46:09	Continuing Calibration Verification	Sr (216.596 nm)	2.5548 (ppm)	1.13	2.5548 (ppm)	31447.2262
3/6/2018 19:46:09	Continuing Calibration Verification	Ti (336.122 nm)	2.5174 (ppm)	1.03	2.5174 (ppm)	424064.2348
3/6/2018 19:46:09	Continuing Calibration Verification	Tl (351.923 nm)	1.0073 (ppm)	0.52	1.0073 (ppm)	2115.1157
3/6/2018 19:46:09	Continuing Calibration Verification	V (292.401 nm)	2.5420 (ppm)	0.94	2.5420 (ppm)	77628.5851
3/6/2018 19:46:09	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	1.41	0.97 (Ratio)	713003.93

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:46:09	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	1.41	0.97 (Ratio)	714830.17
3/6/2018 19:46:09	Continuing Calibration Verification	Zn (213.857 nm)	1.1676 Q (ppm)	0.94	1.1676 (ppm)	29274.4324 Q
3/6/2018 19:49:29	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u (ppm)	34.86	-0.0003 (ppm)	-125.6101
3/6/2018 19:49:29	Continuing Calibration Blank	Al (394.401 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	109.1081
3/6/2018 19:49:29	Continuing Calibration Blank	As (188.980 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-2.5552
3/6/2018 19:49:29	Continuing Calibration Blank	B (249.772 nm)	0.0021 (ppm)	18.29	0.0021 (ppm)	122.9477
3/6/2018 19:49:29	Continuing Calibration Blank	Ba (230.424 nm)	0.0006 (ppm)	75.35	0.0006 (ppm)	18.8227
3/6/2018 19:49:29	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	30.36	0.0000 (ppm)	-473.7555
3/6/2018 19:49:29	Continuing Calibration Blank	Ca (227.547 nm)	-0.0405 u (ppm)	> 100.00	-0.0405 (ppm)	4.3311
3/6/2018 19:49:29	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	15.6982
3/6/2018 19:49:29	Continuing Calibration Blank	Co (230.786 nm)	0.0002 (ppm)	56.34	0.0002 (ppm)	-6.1437
3/6/2018 19:49:29	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.8663
3/6/2018 19:49:29	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.6893
3/6/2018 19:49:29	Continuing Calibration Blank	Fe (234.350 nm)	0.0012 (ppm)	91.03	0.0012 (ppm)	30.9456
3/6/2018 19:49:29	Continuing Calibration Blank	K (766.491 nm)	0.0272 (ppm)	29.95	0.0272 (ppm)	85.5759
3/6/2018 19:49:29	Continuing Calibration Blank	Mg (279.078 nm)	0.0025 (ppm)	81.58	0.0025 (ppm)	-1.5427
3/6/2018 19:49:29	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	93.59	0.0001 (ppm)	14.3713
3/6/2018 19:49:29	Continuing Calibration Blank	Mo (202.032 nm)	0.0008 (ppm)	43.39	0.0008 (ppm)	13.5760
3/6/2018 19:49:29	Continuing Calibration Blank	Na (588.995 nm)	0.0071 (ppm)	16.43	0.0071 (ppm)	-7747.1926
3/6/2018 19:49:29	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-21.6904
3/6/2018 19:49:29	Continuing Calibration Blank	Pb (220.353 nm)	-0.0030 u (ppm)	32.86	-0.0030 (ppm)	1.1082
3/6/2018 19:49:29	Continuing Calibration Blank	Sb (217.582 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	4.4166
3/6/2018 19:49:29	Continuing Calibration Blank	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-2.5247
3/6/2018 19:49:29	Continuing Calibration Blank	Sn (189.925 nm)	0.0025 (ppm)	89.11	0.0025 (ppm)	3.1317
3/6/2018 19:49:29	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.2890
3/6/2018 19:49:29	Continuing Calibration Blank	Ti (336.122 nm)	0.0004 (ppm)	15.61	0.0004 (ppm)	-516.2904
3/6/2018 19:49:29	Continuing Calibration Blank	Tl (351.923 nm)	-0.0019 u (ppm)	12.98	-0.0019 (ppm)	14.7661
3/6/2018 19:49:29	Continuing Calibration Blank	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	138.1591
3/6/2018 19:49:29	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.96	1.01 (Ratio)	738692.67
3/6/2018 19:49:29	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.96	1.01 (Ratio)	740514.01
3/6/2018 19:49:29	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-28.0579
3/6/2018 19:52:50	PBS-309408	Ag (328.068 nm)	-0.0002 u (ppm)	33.85	-0.0002 (ppm)	-121.9702
3/6/2018 19:52:50	PBS-309408	Al (394.401 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	124.6188
3/6/2018 19:52:50	PBS-309408	As (188.980 nm)	-0.0014 u (ppm)	53.59	-0.0014 (ppm)	-1.7775
3/6/2018 19:52:50	PBS-309408	B (249.772 nm)	0.0008 (ppm)	69.18	0.0008 (ppm)	90.7652
3/6/2018 19:52:50	PBS-309408	Ba (230.424 nm)	0.0003 (ppm)	42.09	0.0003 (ppm)	10.1455
3/6/2018 19:52:50	PBS-309408	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-499.7197
3/6/2018 19:52:50	PBS-309408	Ca (227.547 nm)	0.0648 (ppm)	45.53	0.0648 (ppm)	9.2714
3/6/2018 19:52:50	PBS-309408	Cd (214.439 nm)	0.0003 (ppm)	62.16	0.0003 (ppm)	20.0069
3/6/2018 19:52:50	PBS-309408	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-6.5112
3/6/2018 19:52:50	PBS-309408	Cr (267.716 nm)	0.0021 (ppm)	12.05	0.0021 (ppm)	85.0571
3/6/2018 19:52:50	PBS-309408	Cu (327.395 nm)	0.0004 (ppm)	30.02	0.0004 (ppm)	38.6067
3/6/2018 19:52:50	PBS-309408	Fe (234.350 nm)	0.0122 (ppm)	13.70	0.0122 (ppm)	137.4402
3/6/2018 19:52:50	PBS-309408	K (766.491 nm)	0.0222 (ppm)	44.11	0.0222 (ppm)	73.1538
3/6/2018 19:52:50	PBS-309408	Mg (279.078 nm)	0.0082 (ppm)	27.83	0.0082 (ppm)	8.4014
3/6/2018 19:52:50	PBS-309408	Mn (257.610 nm)	0.0007 (ppm)	8.77	0.0007 (ppm)	179.1786
3/6/2018 19:52:50	PBS-309408	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.3751
3/6/2018 19:52:50	PBS-309408	Na (588.995 nm)	0.0384 (ppm)	39.54	0.0384 (ppm)	-6677.5829
3/6/2018 19:52:50	PBS-309408	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-25.5902
3/6/2018 19:52:50	PBS-309408	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.9492
3/6/2018 19:52:50	PBS-309408	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	1.8906

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:52:50	PBS-309408	Se (196.026 nm)	-0.0024 u (ppm)	38.36	-0.0024 (ppm)	-3.4144
3/6/2018 19:52:50	PBS-309408	Sn (189.925 nm)	0.0065 (ppm)	52.93	0.0065 (ppm)	7.2519
3/6/2018 19:52:50	PBS-309408	Sr (216.596 nm)	0.0002 (ppm)	92.44	0.0002 (ppm)	-0.5565
3/6/2018 19:52:50	PBS-309408	Tl (336.122 nm)	-0.0008 u (ppm)	59.16	-0.0008 (ppm)	-719.1918
3/6/2018 19:52:50	PBS-309408	Tl (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	18.4031
3/6/2018 19:52:50	PBS-309408	V (292.401 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	147.8874
3/6/2018 19:52:50	PBS-309408	Y (360.074 nm)	0.97 (Ratio)	9.01	0.97 (Ratio)	709118.50
3/6/2018 19:52:50	PBS-309408	Y_R (360.074 nm)	0.97 (Ratio)	9.01	0.97 (Ratio)	710943.29
3/6/2018 19:52:50	PBS-309408	Zn (213.857 nm)	0.0015 (ppm)	12.40	0.0015 (ppm)	9.7362
3/6/2018 19:56:10	LCSS-309408	Ag (328.068 nm)	0.0486 (ppm)	2.59	0.0486 (ppm)	2820.1677
3/6/2018 19:56:10	LCSS-309408	Al (394.401 nm)	1.8539 (ppm)	2.39	1.8539 (ppm)	19376.0043
3/6/2018 19:56:10	LCSS-309408	As (188.980 nm)	0.0367 (ppm)	2.38	0.0367 (ppm)	26.2499
3/6/2018 19:56:10	LCSS-309408	B (249.772 nm)	0.9274 (ppm)	2.29	0.9274 (ppm)	22070.5872
3/6/2018 19:56:10	LCSS-309408	Ba (230.424 nm)	2.0886 (ppm)	2.22	2.0886 (ppm)	60573.2739
3/6/2018 19:56:10	LCSS-309408	Be (313.107 nm)	0.0483 (ppm)	2.24	0.0483 (ppm)	59476.6304
3/6/2018 19:56:10	LCSS-309408	Ca (227.547 nm)	1.9413 (ppm)	2.43	1.9413 (ppm)	97.2779
3/6/2018 19:56:10	LCSS-309408	Cd (214.439 nm)	0.0519 (ppm)	1.89	0.0519 (ppm)	1033.9040
3/6/2018 19:56:10	LCSS-309408	Co (230.786 nm)	0.5163 (ppm)	2.15	0.5163 (ppm)	4607.3725
3/6/2018 19:56:10	LCSS-309408	Cr (267.716 nm)	0.2089 (ppm)	2.32	0.2089 (ppm)	8595.2977
3/6/2018 19:56:10	LCSS-309408	Cu (327.395 nm)	0.2477 (ppm)	2.53	0.2477 (ppm)	12108.9653
3/6/2018 19:56:10	LCSS-309408	Fe (234.350 nm)	1.0114 (ppm)	2.27	1.0114 (ppm)	9788.2182
3/6/2018 19:56:10	LCSS-309408	K (766.491 nm)	18.4179 (ppm)	2.59	18.4179 (ppm)	45308.1814
3/6/2018 19:56:10	LCSS-309408	Mg (279.078 nm)	1.9728 (ppm)	2.29	1.9728 (ppm)	3420.8066
3/6/2018 19:56:10	LCSS-309408	Mn (257.610 nm)	0.5072 (ppm)	2.19	0.5072 (ppm)	137187.8496
3/6/2018 19:56:10	LCSS-309408	Mo (202.032 nm)	0.4930 (ppm)	2.05	0.4930 (ppm)	4126.3707
3/6/2018 19:56:10	LCSS-309408	Na (588.895 nm)	19.5225 (ppm)	2.58	19.5225 (ppm)	659010.2043
3/6/2018 19:56:10	LCSS-309408	Ni (230.299 nm)	0.5012 (ppm)	2.29	0.5012 (ppm)	3051.7950
3/6/2018 19:56:10	LCSS-309408	Pb (220.353 nm)	0.5093 (ppm)	2.30	0.5093 (ppm)	983.5791
3/6/2018 19:56:10	LCSS-309408	Sb (217.582 nm)	0.4552 (ppm)	2.57	0.4552 (ppm)	538.0533
3/6/2018 19:56:10	LCSS-309408	Se (196.026 nm)	0.9178 (ppm)	2.18	0.9178 (ppm)	665.5903
3/6/2018 19:56:10	LCSS-309408	Sn (189.925 nm)	4.9118 (ppm)	2.22	4.9118 (ppm)	5057.3738
3/6/2018 19:56:10	LCSS-309408	Sr (216.596 nm)	2.0264 (ppm)	2.42	2.0264 (ppm)	24942.1169
3/6/2018 19:56:10	LCSS-309408	Tl (336.122 nm)	0.4927 (ppm)	2.23	0.4927 (ppm)	82541.2690
3/6/2018 19:56:10	LCSS-309408	Tl (351.923 nm)	1.8697 (ppm)	2.44	1.8697 (ppm)	3909.8950
3/6/2018 19:56:10	LCSS-309408	V (292.401 nm)	0.5009 (ppm)	2.23	0.5009 (ppm)	15405.0455
3/6/2018 19:56:10	LCSS-309408	Y (360.074 nm)	0.98 (Ratio)	2.44	0.98 (Ratio)	719709.63
3/6/2018 19:56:10	LCSS-309408	Y_R (360.074 nm)	0.98 (Ratio)	2.44	0.98 (Ratio)	721784.49
3/6/2018 19:56:10	LCSS-309408	Zn (213.857 nm)	0.4823 (ppm)	2.49	0.4823 (ppm)	12075.7843
3/6/2018 19:59:32	R1801700-001	Ag (328.068 nm)	0.0022 (ppm)	2.06	0.0022 (ppm)	23.8086
3/6/2018 19:59:32	R1801700-001	Al (394.401 nm)	80.4713 o (ppm)	1.03	80.4713 (ppm)	836146.7707
3/6/2018 19:59:32	R1801700-001	As (188.980 nm)	0.0231 (ppm)	5.07	0.0231 (ppm)	16.2224
3/6/2018 19:59:32	R1801700-001	B (249.772 nm)	0.1117 (ppm)	1.40	0.1117 (ppm)	2721.6490
3/6/2018 19:59:32	R1801700-001	Ba (230.424 nm)	0.8420 (ppm)	0.77	0.8420 (ppm)	24420.3318
3/6/2018 19:59:32	R1801700-001	Be (313.107 nm)	0.0039 (ppm)	0.91	0.0039 (ppm)	4289.5151
3/6/2018 19:59:32	R1801700-001	Ca (227.547 nm)	50.1032 (ppm)	1.17	50.1032 (ppm)	2356.0519
3/6/2018 19:59:32	R1801700-001	Cd (214.439 nm)	0.0035 (ppm)	3.85	0.0035 (ppm)	83.4840
3/6/2018 19:59:32	R1801700-001	Co (230.786 nm)	0.0486 (ppm)	1.36	0.0486 (ppm)	426.0099
3/6/2018 19:59:32	R1801700-001	Cr (267.716 nm)	0.1167 (ppm)	1.12	0.1167 (ppm)	4803.0092
3/6/2018 19:59:32	R1801700-001	Cu (327.395 nm)	0.1610 (ppm)	1.03	0.1610 (ppm)	7876.9449
3/6/2018 19:59:32	R1801700-001	Fe (234.350 nm)	111.2567 o (ppm)	0.96	111.2567 (ppm)	1074548.5053
3/6/2018 19:59:32	R1801700-001	K (766.491 nm)	9.7853 (ppm)	1.53	9.7853 (ppm)	24080.6400

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 19:59:32	R1801700-001	Mg (279.078 nm)	37.9948 (ppm)	0.99	37.9948 (ppm)	65991.4978
3/6/2018 19:59:32	R1801700-001	Mn (257.610 nm)	1.2408 (ppm)	0.96	1.2408 (ppm)	335585.6989
3/6/2018 19:59:32	R1801700-001	Mo (202.032 nm)	0.0071 (ppm)	3.33	0.0071 (ppm)	66.5846
3/6/2018 19:59:32	R1801700-001	Na (588.995 nm)	0.9733 (ppm)	1.40	0.9733 (ppm)	25262.9598
3/6/2018 19:59:32	R1801700-001	Ni (230.299 nm)	0.1443 (ppm)	1.67	0.1443 (ppm)	861.5454
3/6/2018 19:59:32	R1801700-001	Pb (220.353 nm)	0.1809 (ppm)	0.58	0.1809 (ppm)	353.7892
3/6/2018 19:59:32	R1801700-001	Sb (217.582 nm)	0.0010 (ppm)	73.85	0.0010 (ppm)	3.3326
3/6/2018 19:59:32	R1801700-001	Se (196.026 nm)	0.0089 (ppm)	65.77	0.0089 (ppm)	4.7851
3/6/2018 19:59:32	R1801700-001	Sn (189.925 nm)	0.0147 (ppm)	18.48	0.0147 (ppm)	15.7052
3/6/2018 19:59:32	R1801700-001	Sr (216.596 nm)	0.4572 (ppm)	0.87	0.4572 (ppm)	5624.7566
3/6/2018 19:59:32	R1801700-001	Ti (336.122 nm)	0.6216 (ppm)	1.08	0.6216 (ppm)	104267.8052
3/6/2018 19:59:32	R1801700-001	Tl (351.923 nm)	-0.0067 u (ppm)	27.86	-0.0067 (ppm)	4.8655
3/6/2018 19:59:32	R1801700-001	V (292.401 nm)	0.1536 (ppm)	1.33	0.1536 (ppm)	4817.3264
3/6/2018 19:59:32	R1801700-001	Y (360.074 nm)	1.02 (Ratio)	1.37	1.02 (Ratio)	746356.33
3/6/2018 19:59:32	R1801700-001	Y_R (360.074 nm)	1.02 (Ratio)	1.37	1.02 (Ratio)	748738.74
3/6/2018 19:59:32	R1801700-001	Zn (213.857 nm)	0.7137 (ppm)	0.69	0.7137 (ppm)	17883.0483
3/6/2018 20:02:52	R1801700-002	Ag (328.068 nm)	-0.0003 u (ppm)	51.60	-0.0003 (ppm)	-129.0399
3/6/2018 20:02:52	R1801700-002	Al (394.401 nm)	62.2113 o (ppm)	2.62	62.2113 (ppm)	646440.1229
3/6/2018 20:02:52	R1801700-002	As (188.980 nm)	0.0536 (ppm)	1.37	0.0536 (ppm)	38.6474
3/6/2018 20:02:52	R1801700-002	B (249.772 nm)	0.1029 (ppm)	2.64	0.1029 (ppm)	2512.6931
3/6/2018 20:02:52	R1801700-002	Ba (230.424 nm)	0.6840 (ppm)	2.34	0.6840 (ppm)	19837.6050
3/6/2018 20:02:52	R1801700-002	Be (313.107 nm)	0.0030 (ppm)	2.32	0.0030 (ppm)	3216.1367
3/6/2018 20:02:52	R1801700-002	Ce (227.547 nm)	210.7418 o (ppm)	2.77	210.7418 (ppm)	9889.9419
3/6/2018 20:02:52	R1801700-002	Cd (214.439 nm)	0.0026 (ppm)	5.00	0.0026 (ppm)	64.5737
3/6/2018 20:02:52	R1801700-002	Co (230.786 nm)	0.0431 (ppm)	1.17	0.0431 (ppm)	376.8929
3/6/2018 20:02:52	R1801700-002	Cr (267.716 nm)	0.0843 (ppm)	2.32	0.0843 (ppm)	3467.7253
3/6/2018 20:02:52	R1801700-002	Cu (327.395 nm)	0.1690 (ppm)	2.36	0.1690 (ppm)	8267.6551
3/6/2018 20:02:52	R1801700-002	Fe (234.350 nm)	108.3727 o (ppm)	2.42	108.3727 (ppm)	1046693.8126
3/6/2018 20:02:52	R1801700-002	K (766.491 nm)	9.6973 (ppm)	2.92	9.6973 (ppm)	23864.1652
3/6/2018 20:02:52	R1801700-002	Mg (279.078 nm)	61.9194 o (ppm)	2.46	61.9194 (ppm)	107548.8130
3/6/2018 20:02:52	R1801700-002	Mn (257.610 nm)	4.2235 o (ppm)	2.39	4.2235 (ppm)	1142339.7600
3/6/2018 20:02:52	R1801700-002	Mo (202.032 nm)	0.0083 (ppm)	6.52	0.0083 (ppm)	76.8463
3/6/2018 20:02:52	R1801700-002	Na (588.995 nm)	0.9710 (ppm)	2.72	0.9710 (ppm)	25184.1953
3/6/2018 20:02:52	R1801700-002	Ni (230.299 nm)	0.1202 (ppm)	1.97	0.1202 (ppm)	713.5268
3/6/2018 20:02:52	R1801700-002	Pb (220.353 nm)	0.1206 (ppm)	3.85	0.1206 (ppm)	238.0616
3/6/2018 20:02:52	R1801700-002	Sb (217.582 nm)	-0.0021 u (ppm)	29.08	-0.0021 (ppm)	-0.3447
3/6/2018 20:02:52	R1801700-002	Se (196.026 nm)	0.0056 (ppm)	26.85	0.0056 (ppm)	2.4332
3/6/2018 20:02:52	R1801700-002	Sn (189.925 nm)	0.0109 (ppm)	13.39	0.0109 (ppm)	11.7990
3/6/2018 20:02:52	R1801700-002	Sr (216.596 nm)	0.5403 (ppm)	2.30	0.5403 (ppm)	6648.5581
3/6/2018 20:02:52	R1801700-002	Ti (336.122 nm)	0.4463 (ppm)	2.39	0.4463 (ppm)	74697.6307
3/6/2018 20:02:52	R1801700-002	Tl (351.923 nm)	-0.0052 u (ppm)	39.89	-0.0052 (ppm)	7.8775
3/6/2018 20:02:52	R1801700-002	V (292.401 nm)	0.1284 (ppm)	2.33	0.1284 (ppm)	4051.8349
3/6/2018 20:02:52	R1801700-002	Y (360.074 nm)	0.97 (Ratio)	2.54	0.97 (Ratio)	711669.04
3/6/2018 20:02:52	R1801700-002	Y_R (360.074 nm)	0.97 (Ratio)	2.54	0.97 (Ratio)	714105.32
3/6/2018 20:02:52	R1801700-002	Zn (213.857 nm)	0.6263 (ppm)	2.64	0.6263 (ppm)	15689.4396
3/6/2018 20:06:13	R1801700-003	Ag (328.068 nm)	0.0004 (ppm)	18.05	0.0004 (ppm)	-87.4537
3/6/2018 20:06:13	R1801700-003	Al (394.401 nm)	43.9199 o (ppm)	2.22	43.9199 (ppm)	456407.5093
3/6/2018 20:06:13	R1801700-003	As (188.980 nm)	0.0287 (ppm)	9.55	0.0287 (ppm)	20.3521
3/6/2018 20:06:13	R1801700-003	B (249.772 nm)	0.0947 (ppm)	2.29	0.0947 (ppm)	2319.0892
3/6/2018 20:06:13	R1801700-003	Ba (230.424 nm)	0.3832 (ppm)	2.82	0.3832 (ppm)	11114.5985
3/6/2018 20:06:13	R1801700-003	Be (313.107 nm)	0.0022 (ppm)	1.18	0.0022 (ppm)	2184.9452

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:06:13	R1801700-003	Ca (227.547 nm)	377.8497 o (ppm)	2.31	377.8497 (ppm)	17727.2394
3/6/2018 20:06:13	R1801700-003	Cd (214.439 nm)	0.0019 (ppm)	8.27	0.0019 (ppm)	50.5343
3/6/2018 20:06:13	R1801700-003	Co (230.786 nm)	0.0399 (ppm)	1.29	0.0399 (ppm)	348.5528
3/6/2018 20:06:13	R1801700-003	Cr (267.716 nm)	0.0698 (ppm)	2.16	0.0698 (ppm)	2870.8054
3/6/2018 20:06:13	R1801700-003	Cu (327.395 nm)	0.1223 (ppm)	2.17	0.1223 (ppm)	5988.1186
3/6/2018 20:06:13	R1801700-003	Fe (234.350 nm)	75.8860 o (ppm)	2.32	75.8860 (ppm)	732934.2339
3/6/2018 20:06:13	R1801700-003	K (766.491 nm)	9.9653 (ppm)	2.54	9.9653 (ppm)	24523.3736
3/6/2018 20:06:13	R1801700-003	Mg (279.078 nm)	101.1427 o (ppm)	2.19	101.1427 (ppm)	175680.1259
3/6/2018 20:06:13	R1801700-003	Mn (257.610 nm)	2.6162 o (ppm)	2.05	2.6162 (ppm)	707603.0947
3/6/2018 20:06:13	R1801700-003	Mo (202.032 nm)	0.0091 (ppm)	6.38	0.0091 (ppm)	83.2572
3/6/2018 20:06:13	R1801700-003	Na (588.995 nm)	1.2075 (ppm)	2.01	1.2075 (ppm)	33264.0269
3/6/2018 20:06:13	R1801700-003	Ni (230.299 nm)	0.1009 (ppm)	2.99	0.1009 (ppm)	595.5234
3/6/2018 20:06:13	R1801700-003	Pb (220.353 nm)	0.0873 (ppm)	0.31	0.0873 (ppm)	174.1199
3/6/2018 20:06:13	R1801700-003	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	2.2123
3/6/2018 20:06:13	R1801700-003	Se (196.026 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	-0.1293
3/6/2018 20:06:13	R1801700-003	Sn (189.925 nm)	0.0117 (ppm)	13.01	0.0117 (ppm)	12.6573
3/6/2018 20:06:13	R1801700-003	Sr (216.596 nm)	0.7596 (ppm)	2.41	0.7596 (ppm)	9347.9871
3/6/2018 20:06:13	R1801700-003	Ti (336.122 nm)	0.7104 (ppm)	2.25	0.7104 (ppm)	119256.6499
3/6/2018 20:06:13	R1801700-003	Tl (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	22.4524
3/6/2018 20:06:13	R1801700-003	V (292.401 nm)	0.1013 (ppm)	2.12	0.1013 (ppm)	3223.7877
3/6/2018 20:06:13	R1801700-003	Y (360.074 nm)	0.95 (Ratio)	2.43	0.95 (Ratio)	693280.03
3/6/2018 20:06:13	R1801700-003	Y_R (360.074 nm)	0.95 (Ratio)	2.44	0.95 (Ratio)	695788.00
3/6/2018 20:06:13	R1801700-003	Zn (213.857 nm)	0.3883 (ppm)	3.06	0.3883 (ppm)	9717.5359
3/6/2018 20:09:34	R1801700-004	Ag (328.068 nm)	-0.0002 u (ppm)	69.46	-0.0002 (ppm)	-123.1870
3/6/2018 20:09:34	R1801700-004	Al (394.401 nm)	71.9868 o (ppm)	2.44	71.9868 (ppm)	747999.3724
3/6/2018 20:09:34	R1801700-004	As (188.980 nm)	0.0417 (ppm)	14.58	0.0417 (ppm)	29.8588
3/6/2018 20:09:34	R1801700-004	B (249.772 nm)	0.1337 (ppm)	2.47	0.1337 (ppm)	3244.0237
3/6/2018 20:09:34	R1801700-004	Ba (230.424 nm)	0.5322 (ppm)	2.40	0.5322 (ppm)	15437.0686
3/6/2018 20:09:34	R1801700-004	Be (313.107 nm)	0.0034 (ppm)	2.10	0.0034 (ppm)	3775.3591
3/6/2018 20:09:34	R1801700-004	Ca (227.547 nm)	530.6773 o (ppm)	2.54	530.6773 (ppm)	24894.7974
3/6/2018 20:09:34	R1801700-004	Cd (214.439 nm)	0.0027 (ppm)	6.60	0.0027 (ppm)	66.4264
3/6/2018 20:09:34	R1801700-004	Co (230.786 nm)	0.0653 (ppm)	2.17	0.0653 (ppm)	575.5436
3/6/2018 20:09:34	R1801700-004	Cr (267.716 nm)	0.1075 (ppm)	2.21	0.1075 (ppm)	4423.0835
3/6/2018 20:09:34	R1801700-004	Cu (327.395 nm)	0.1809 (ppm)	2.28	0.1809 (ppm)	8849.2921
3/6/2018 20:09:34	R1801700-004	Fe (234.350 nm)	129.5785 o (ppm)	2.15	129.5785 (ppm)	1251501.9781
3/6/2018 20:09:34	R1801700-004	K (766.491 nm)	14.2299 (ppm)	2.91	14.2299 (ppm)	35010.0055
3/6/2018 20:09:34	R1801700-004	Mg (279.078 nm)	147.6696 o (ppm)	2.27	147.6696 (ppm)	256497.8183
3/6/2018 20:09:34	R1801700-004	Mn (257.610 nm)	3.9849 o (ppm)	2.32	3.9849 (ppm)	1077812.3099
3/6/2018 20:09:34	R1801700-004	Mo (202.032 nm)	0.0086 (ppm)	3.81	0.0086 (ppm)	79.2569
3/6/2018 20:09:34	R1801700-004	Na (588.995 nm)	1.3724 (ppm)	2.44	1.3724 (ppm)	38896.5700
3/6/2018 20:09:34	R1801700-004	Ni (230.299 nm)	0.1620 (ppm)	2.29	0.1620 (ppm)	970.0493
3/6/2018 20:09:34	R1801700-004	Pb (220.353 nm)	0.0910 (ppm)	1.22	0.0910 (ppm)	181.3666
3/6/2018 20:09:34	R1801700-004	Sb (217.582 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	-1.6423
3/6/2018 20:09:34	R1801700-004	Se (196.026 nm)	0.0039 u (ppm)	> 100.00	0.0039 (ppm)	1.2029
3/6/2018 20:09:34	R1801700-004	Sn (189.925 nm)	0.0120 (ppm)	6.11	0.0120 (ppm)	12.9525
3/6/2018 20:09:34	R1801700-004	Sr (216.596 nm)	0.9016 (ppm)	1.80	0.9016 (ppm)	11095.9633
3/6/2018 20:09:34	R1801700-004	Ti (336.122 nm)	0.8421 (ppm)	2.25	0.8421 (ppm)	141475.3940
3/6/2018 20:09:34	R1801700-004	Tl (351.923 nm)	0.0052 (ppm)	76.59	0.0052 (ppm)	29.4693
3/6/2018 20:09:34	R1801700-004	V (292.401 nm)	0.1523 (ppm)	2.14	0.1523 (ppm)	4777.6995
3/6/2018 20:09:34	R1801700-004	Y (360.074 nm)	0.94 (Ratio)	2.31	0.94 (Ratio)	687096.86
3/6/2018 20:09:34	R1801700-004	Y_R (360.074 nm)	0.94 (Ratio)	2.31	0.94 (Ratio)	689732.02

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:09:34	R1801700-004	Zn (213.857 nm)	0.5609 (ppm)	2.34	0.5609 (ppm)	14048.7223
3/6/2018 20:12:54	R1801700-005	Ag (328.068 nm)	0.0008 (ppm)	10.58	0.0008 (ppm)	-60.2339
3/6/2018 20:12:54	R1801700-005	Al (394.401 nm)	62.3442 o (ppm)	1.69	62.3442 (ppm)	647820.6021
3/6/2018 20:12:54	R1801700-005	As (188.980 nm)	0.0430 (ppm)	7.70	0.0430 (ppm)	30.8361
3/6/2018 20:12:54	R1801700-005	B (249.772 nm)	0.1319 (ppm)	1.47	0.1319 (ppm)	3201.0320
3/6/2018 20:12:54	R1801700-005	Ba (230.424 nm)	0.7203 (ppm)	1.51	0.7203 (ppm)	20891.4182
3/6/2018 20:12:54	R1801700-005	Be (313.107 nm)	0.0031 (ppm)	0.86	0.0031 (ppm)	3286.7843
3/6/2018 20:12:54	R1801700-005	Ca (227.547 nm)	533.5301 o (ppm)	1.73	533.5301 (ppm)	25028.5897
3/6/2018 20:12:54	R1801700-005	Cd (214.439 nm)	0.0068 (ppm)	3.10	0.0068 (ppm)	147.1537
3/6/2018 20:12:54	R1801700-005	Co (230.786 nm)	0.0525 (ppm)	2.28	0.0525 (ppm)	461.0281
3/6/2018 20:12:54	R1801700-005	Cr (267.716 nm)	0.1062 (ppm)	1.63	0.1062 (ppm)	4369.6209
3/6/2018 20:12:54	R1801700-005	Cu (327.395 nm)	0.2732 (ppm)	1.92	0.2732 (ppm)	13357.6965
3/6/2018 20:12:54	R1801700-005	Fe (234.350 nm)	105.1726 o (ppm)	1.50	105.1726 (ppm)	1015787.1396
3/6/2018 20:12:54	R1801700-005	K (766.491 nm)	12.0484 (ppm)	2.11	12.0484 (ppm)	29645.5567
3/6/2018 20:12:54	R1801700-005	Mg (279.078 nm)	122.2498 o (ppm)	1.51	122.2498 (ppm)	212343.2854
3/6/2018 20:12:54	R1801700-005	Mn (257.610 nm)	3.3544 o (ppm)	1.26	3.3544 (ppm)	907280.0687
3/6/2018 20:12:54	R1801700-005	Mo (202.032 nm)	0.0071 (ppm)	9.41	0.0071 (ppm)	66.6100
3/6/2018 20:12:54	R1801700-005	Na (588.995 nm)	1.3629 (ppm)	1.69	1.3629 (ppm)	38574.2927
3/6/2018 20:12:54	R1801700-005	Ni (230.299 nm)	0.1456 (ppm)	1.38	0.1456 (ppm)	869.3309
3/6/2018 20:12:54	R1801700-005	Pb (220.353 nm)	0.3431 (ppm)	1.49	0.3431 (ppm)	664.6752
3/6/2018 20:12:54	R1801700-005	Sb (217.582 nm)	0.0158 (ppm)	11.95	0.0158 (ppm)	20.7126
3/6/2018 20:12:54	R1801700-005	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.3346
3/6/2018 20:12:54	R1801700-005	Sn (189.925 nm)	0.0295 (ppm)	5.44	0.0295 (ppm)	30.9641
3/6/2018 20:12:54	R1801700-005	Sr (216.596 nm)	0.9300 (ppm)	1.15	0.9300 (ppm)	11445.4037
3/6/2018 20:12:54	R1801700-005	Ti (336.122 nm)	0.7855 (ppm)	1.84	0.7855 (ppm)	131921.0511
3/6/2018 20:12:54	R1801700-005	Tl (351.923 nm)	0.0103 (ppm)	10.16	0.0103 (ppm)	40.2407
3/6/2018 20:12:54	R1801700-005	V (292.401 nm)	0.1343 (ppm)	1.61	0.1343 (ppm)	4229.3259
3/6/2018 20:12:54	R1801700-005	Y (360.074 nm)	0.94 (Ratio)	1.71	0.94 (Ratio)	691010.80
3/6/2018 20:12:54	R1801700-005	Y_R (360.074 nm)	0.95 (Ratio)	1.71	0.95 (Ratio)	693737.73
3/6/2018 20:12:54	R1801700-005	Zn (213.857 nm)	0.9271 (ppm)	1.46	0.9271 (ppm)	23238.4292
3/6/2018 20:16:15	R1801700-006	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-106.8855
3/6/2018 20:16:15	R1801700-006	Al (394.401 nm)	86.0169 o (ppm)	0.68	86.0169 (ppm)	893760.2232
3/6/2018 20:16:15	R1801700-006	As (188.980 nm)	0.0369 (ppm)	8.68	0.0369 (ppm)	26.3522
3/6/2018 20:16:15	R1801700-006	B (249.772 nm)	0.1208 (ppm)	0.80	0.1208 (ppm)	2938.0953
3/6/2018 20:16:15	R1801700-006	Ba (230.424 nm)	1.1500 (ppm)	0.72	1.1500 (ppm)	33352.8190
3/6/2018 20:16:15	R1801700-006	Be (313.107 nm)	0.0042 (ppm)	0.41	0.0042 (ppm)	4752.3099
3/6/2018 20:16:15	R1801700-006	Ca (227.547 nm)	60.7200 o (ppm)	0.91	60.7200 (ppm)	2853.9763
3/6/2018 20:16:15	R1801700-006	Cd (214.439 nm)	0.0042 (ppm)	1.54	0.0042 (ppm)	96.9215
3/6/2018 20:16:15	R1801700-006	Co (230.786 nm)	0.0642 (ppm)	1.07	0.0642 (ppm)	565.1930
3/6/2018 20:16:15	R1801700-006	Cr (267.716 nm)	0.1196 (ppm)	0.49	0.1196 (ppm)	4919.5386
3/6/2018 20:16:15	R1801700-006	Cu (327.395 nm)	0.1355 (ppm)	1.45	0.1355 (ppm)	6630.9322
3/6/2018 20:16:15	R1801700-006	Fe (234.350 nm)	138.3900 o (ppm)	0.63	138.3900 (ppm)	1336604.0042
3/6/2018 20:16:15	R1801700-006	K (766.491 nm)	9.7235 (ppm)	0.99	9.7235 (ppm)	23928.7341
3/6/2018 20:16:15	R1801700-006	Mg (279.078 nm)	36.7647 (ppm)	0.69	36.7647 (ppm)	63854.7181
3/6/2018 20:16:15	R1801700-006	Mn (257.610 nm)	5.7031 o (ppm)	0.61	5.7031 (ppm)	1542536.6080
3/6/2018 20:16:15	R1801700-006	Mo (202.032 nm)	0.0080 (ppm)	4.38	0.0080 (ppm)	74.3416
3/6/2018 20:16:15	R1801700-006	Na (588.995 nm)	0.8426 (ppm)	0.81	0.8426 (ppm)	20796.6649
3/6/2018 20:16:15	R1801700-006	Ni (230.299 nm)	0.1441 (ppm)	0.30	0.1441 (ppm)	860.3837
3/6/2018 20:16:15	R1801700-006	Pb (220.353 nm)	0.1863 (ppm)	2.01	0.1863 (ppm)	364.0582
3/6/2018 20:16:15	R1801700-006	Sb (217.582 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	-0.3172
3/6/2018 20:16:15	R1801700-006	Se (196.026 nm)	0.0070 (ppm)	65.53	0.0070 (ppm)	3.4500

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:16:15	R1801700-006	Sn (189.925 nm)	0.0149 (ppm)	4.02	0.0149 (ppm)	15.8937
3/6/2018 20:16:15	R1801700-006	Sr (216.596 nm)	0.3242 (ppm)	0.52	0.3242 (ppm)	3988.2964
3/6/2018 20:16:15	R1801700-006	Ti (336.122 nm)	0.4622 (ppm)	0.74	0.4622 (ppm)	77386.4126
3/6/2018 20:16:15	R1801700-006	Tl (351.923 nm)	-0.0140 u (ppm)	29.23	-0.0140 (ppm)	-10.3249
3/6/2018 20:16:15	R1801700-006	V (292.401 nm)	0.1723 (ppm)	0.53	0.1723 (ppm)	5388.7831
3/6/2018 20:16:15	R1801700-006	Y (360.074 nm)	1.01 (Ratio)	1.17	1.01 (Ratio)	743999.11
3/6/2018 20:16:15	R1801700-006	Y_R (360.074 nm)	1.02 (Ratio)	1.17	1.02 (Ratio)	746905.00
3/6/2018 20:16:15	R1801700-006	Zn (213.857 nm)	0.7519 (ppm)	0.90	0.7519 (ppm)	18842.6059
3/6/2018 20:19:36	R1801700-007	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-106.7770
3/6/2018 20:19:36	R1801700-007	Al (394.401 nm)	104.4901 o (ppm)	2.56	104.4901 (ppm)	1085681.9343
3/6/2018 20:19:36	R1801700-007	As (188.980 nm)	0.0491 (ppm)	10.31	0.0491 (ppm)	35.3251
3/6/2018 20:19:36	R1801700-007	B (249.772 nm)	0.1653 (ppm)	2.23	0.1653 (ppm)	3994.5837
3/6/2018 20:19:36	R1801700-007	Ba (230.424 nm)	0.7865 (ppm)	2.58	0.7865 (ppm)	22812.4810
3/6/2018 20:19:36	R1801700-007	Be (313.107 nm)	0.0046 (ppm)	2.08	0.0046 (ppm)	5210.4754
3/6/2018 20:19:36	R1801700-007	Ca (227.547 nm)	510.5613 o (ppm)	2.56	510.5613 (ppm)	23951.3643
3/6/2018 20:19:36	R1801700-007	Cd (214.439 nm)	0.0022 (ppm)	5.94	0.0022 (ppm)	56.9187
3/6/2018 20:19:36	R1801700-007	Co (230.786 nm)	0.0793 (ppm)	2.46	0.0793 (ppm)	700.2538
3/6/2018 20:19:36	R1801700-007	Cr (267.716 nm)	0.1548 (ppm)	2.47	0.1548 (ppm)	6371.7902
3/6/2018 20:19:36	R1801700-007	Cu (327.395 nm)	0.1823 (ppm)	2.56	0.1823 (ppm)	8916.5093
3/6/2018 20:19:36	R1801700-007	Fe (234.350 nm)	165.6095 o (ppm)	2.30	165.6095 (ppm)	1599492.9427
3/6/2018 20:19:36	R1801700-007	K (766.491 nm)	21.1713 (ppm)	2.86	21.1713 (ppm)	52078.7997
3/6/2018 20:19:36	R1801700-007	Mg (279.078 nm)	140.9138 o (ppm)	2.38	140.9138 (ppm)	244762.8879
3/6/2018 20:19:36	R1801700-007	Mn (257.610 nm)	4.3633 o (ppm)	2.32	4.3633 (ppm)	1180169.5971
3/6/2018 20:19:36	R1801700-007	Mo (202.032 nm)	0.0063 (ppm)	5.61	0.0063 (ppm)	60.2202
3/6/2018 20:19:36	R1801700-007	Na (588.995 nm)	1.6037 (ppm)	2.79	1.6037 (ppm)	46800.9683
3/6/2018 20:19:36	R1801700-007	Ni (230.299 nm)	0.1811 (ppm)	2.48	0.1811 (ppm)	1087.5860
3/6/2018 20:19:36	R1801700-007	Pb (220.353 nm)	0.0767 (ppm)	3.82	0.0767 (ppm)	153.9586
3/6/2018 20:19:36	R1801700-007	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	2.3747
3/6/2018 20:19:36	R1801700-007	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.9160
3/6/2018 20:19:36	R1801700-007	Sn (189.925 nm)	0.0080 (ppm)	14.69	0.0080 (ppm)	8.8080
3/6/2018 20:19:36	R1801700-007	Sr (216.596 nm)	0.8291 (ppm)	1.89	0.8291 (ppm)	10203.9402
3/6/2018 20:19:36	R1801700-007	Ti (336.122 nm)	2.0266 (ppm)	2.41	2.0266 (ppm)	341281.1521
3/6/2018 20:19:36	R1801700-007	Tl (351.923 nm)	0.0050 (ppm)	68.23	0.0050 (ppm)	29.2273
3/6/2018 20:19:36	R1801700-007	V (292.401 nm)	0.2073 (ppm)	2.43	0.2073 (ppm)	6455.9834
3/6/2018 20:19:36	R1801700-007	Y (360.074 nm)	0.94 (Ratio)	2.43	0.94 (Ratio)	687366.94
3/6/2018 20:19:36	R1801700-007	Y_R (360.074 nm)	0.94 (Ratio)	2.43	0.94 (Ratio)	690213.89
3/6/2018 20:19:36	R1801700-007	Zn (213.857 nm)	0.4478 (ppm)	2.62	0.4478 (ppm)	11209.9648
3/6/2018 20:22:57	R1801739-001	Ag (328.068 nm)	0.0047 (ppm)	4.06	0.0047 (ppm)	176.1953
3/6/2018 20:22:57	R1801739-001	Al (394.401 nm)	5.6190 (ppm)	2.47	5.6190 (ppm)	58492.2245
3/6/2018 20:22:57	R1801739-001	As (188.980 nm)	0.0101 (ppm)	8.58	0.0101 (ppm)	6.6859
3/6/2018 20:22:57	R1801739-001	B (249.772 nm)	0.1033 (ppm)	2.65	0.1033 (ppm)	2523.7856
3/6/2018 20:22:57	R1801739-001	Ba (230.424 nm)	1.0536 (ppm)	2.11	1.0536 (ppm)	30556.5692
3/6/2018 20:22:57	R1801739-001	Be (313.107 nm)	0.0002 (ppm)	9.89	0.0002 (ppm)	-319.6617
3/6/2018 20:22:57	R1801739-001	Ca (227.547 nm)	65.0796 o (ppm)	2.58	65.0796 (ppm)	3058.4383
3/6/2018 20:22:57	R1801739-001	Cd (214.439 nm)	0.0041 (ppm)	6.18	0.0041 (ppm)	95.0234
3/6/2018 20:22:57	R1801739-001	Co (230.786 nm)	0.0020 (ppm)	28.29	0.0020 (ppm)	9.5349
3/6/2018 20:22:57	R1801739-001	Cr (267.716 nm)	0.1354 (ppm)	2.27	0.1354 (ppm)	5571.6336
3/6/2018 20:22:57	R1801739-001	Cu (327.395 nm)	1.3776 (ppm)	2.38	1.3776 (ppm)	67267.6302
3/6/2018 20:22:57	R1801739-001	Fe (234.350 nm)	143.2609 o (ppm)	2.20	143.2609 (ppm)	1383647.7952
3/6/2018 20:22:57	R1801739-001	K (766.491 nm)	3.4328 (ppm)	2.58	3.4328 (ppm)	8459.8561
3/6/2018 20:22:57	R1801739-001	Mg (279.078 nm)	8.7670 (ppm)	2.37	8.7670 (ppm)	15222.5111

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:22:57	R1801739-001	Mn (257.610 nm)	0.6336 (ppm)	2.40	0.6336 (ppm)	171377.1631
3/6/2018 20:22:57	R1801739-001	Mo (202.032 nm)	0.0155 (ppm)	1.02	0.0155 (ppm)	136.7224
3/6/2018 20:22:57	R1801739-001	Na (588.995 nm)	1.8547 (ppm)	2.55	1.8547 (ppm)	55376.7378
3/6/2018 20:22:57	R1801739-001	Ni (230.299 nm)	0.0180 (ppm)	1.85	0.0180 (ppm)	86.8899
3/6/2018 20:22:57	R1801739-001	Pb (220.353 nm)	0.0316 (ppm)	0.58	0.0316 (ppm)	67.4112
3/6/2018 20:22:57	R1801739-001	Sb (217.582 nm)	0.0032 u (ppm)	95.43	0.0032 (ppm)	5.8479
3/6/2018 20:22:57	R1801739-001	Se (196.026 nm)	0.0082 (ppm)	76.99	0.0082 (ppm)	4.2895
3/6/2018 20:22:57	R1801739-001	Sn (189.925 nm)	0.0862 (ppm)	2.07	0.0862 (ppm)	89.3040
3/6/2018 20:22:57	R1801739-001	Sr (216.596 nm)	0.3001 (ppm)	2.45	0.3001 (ppm)	3691.9023
3/6/2018 20:22:57	R1801739-001	Ti (336.122 nm)	0.1067 (ppm)	2.52	0.1067 (ppm)	17419.5506
3/6/2018 20:22:57	R1801739-001	Ti (351.923 nm)	-0.0031 u (ppm)	> 100.00	-0.0031 (ppm)	12.1815
3/6/2018 20:22:57	R1801739-001	V (292.401 nm)	0.0228 (ppm)	3.02	0.0228 (ppm)	831.7707
3/6/2018 20:22:57	R1801739-001	Y (360.074 nm)	0.96 (Ratio)	2.50	0.96 (Ratio)	701573.18
3/6/2018 20:22:57	R1801739-001	Y_R (360.074 nm)	0.96 (Ratio)	2.50	0.96 (Ratio)	704213.89
3/6/2018 20:22:57	R1801739-001	Zn (213.857 nm)	1.7722 (ppm)	2.22	1.7722 (ppm)	44444.6935
3/6/2018 20:26:18	Continuing Calibration Verification	Ag (328.068 nm)	0.4847 (ppm)	1.66	0.4847 (ppm)	29107.8215
3/6/2018 20:26:18	Continuing Calibration Verification	Al (394.401 nm)	9.8393 (ppm)	1.72	9.8393 (ppm)	102337.0022
3/6/2018 20:26:18	Continuing Calibration Verification	As (188.980 nm)	0.9721 (ppm)	1.51	0.9721 (ppm)	713.2564
3/6/2018 20:26:18	Continuing Calibration Verification	B (249.772 nm)	2.4273 (ppm)	1.50	2.4273 (ppm)	57649.0959
3/6/2018 20:26:18	Continuing Calibration Verification	Ba (230.424 nm)	10.3951 (ppm)	1.59	10.3951 (ppm)	301479.6229
3/6/2018 20:26:18	Continuing Calibration Verification	Be (313.107 nm)	0.2526 (ppm)	1.71	0.2526 (ppm)	313217.9934
3/6/2018 20:26:18	Continuing Calibration Verification	Ca (227.547 nm)	24.3424 (ppm)	1.41	24.3424 (ppm)	1147.8812
3/6/2018 20:26:18	Continuing Calibration Verification	Cd (214.439 nm)	0.5041 (ppm)	1.74	0.5041 (ppm)	9929.9008
3/6/2018 20:26:18	Continuing Calibration Verification	Co (230.786 nm)	2.6049 (ppm)	1.61	2.6049 (ppm)	23276.7632
3/6/2018 20:26:18	Continuing Calibration Verification	Cr (267.716 nm)	0.5258 (ppm)	1.62	0.5258 (ppm)	21635.8307
3/6/2018 20:26:18	Continuing Calibration Verification	Cu (327.395 nm)	1.2247 (ppm)	1.59	1.2247 (ppm)	59803.9626
3/6/2018 20:26:18	Continuing Calibration Verification	Fe (234.350 nm)	5.0948 (ppm)	1.77	5.0948 (ppm)	49225.6026
3/6/2018 20:26:18	Continuing Calibration Verification	K (766.491 nm)	23.9254 (ppm)	1.90	23.9254 (ppm)	58851.0704
3/6/2018 20:26:18	Continuing Calibration Verification	Mg (279.078 nm)	25.1620 (ppm)	1.72	25.1620 (ppm)	43700.7091
3/6/2018 20:26:18	Continuing Calibration Verification	Mn (257.610 nm)	0.7745 (ppm)	1.58	0.7745 (ppm)	209479.7471
3/6/2018 20:26:18	Continuing Calibration Verification	Mo (202.032 nm)	2.3892 (ppm)	1.56	2.3892 (ppm)	19968.9853
3/6/2018 20:26:18	Continuing Calibration Verification	Na (588.995 nm)	25.2528 (ppm)	2.05	25.2528 (ppm)	854790.6190
3/6/2018 20:26:18	Continuing Calibration Verification	Ni (230.299 nm)	2.0742 (ppm)	1.63	2.0742 (ppm)	12703.9192
3/6/2018 20:26:18	Continuing Calibration Verification	Pb (220.353 nm)	0.5019 (ppm)	2.14	0.5019 (ppm)	969.2682
3/6/2018 20:26:18	Continuing Calibration Verification	Sb (217.582 nm)	4.9775 (ppm)	1.67	4.9775 (ppm)	5862.8311
3/6/2018 20:26:18	Continuing Calibration Verification	Se (196.026 nm)	0.4890 (ppm)	1.75	0.4890 (ppm)	353.8455
3/6/2018 20:26:18	Continuing Calibration Verification	Sn (189.925 nm)	5.0712 (ppm)	1.83	5.0712 (ppm)	5221.5399
3/6/2018 20:26:18	Continuing Calibration Verification	Sr (216.596 nm)	2.5734 (ppm)	1.79	2.5734 (ppm)	31676.2874
3/6/2018 20:26:18	Continuing Calibration Verification	Ti (336.122 nm)	2.5244 (ppm)	1.66	2.5244 (ppm)	425244.7974
3/6/2018 20:26:18	Continuing Calibration Verification	Ti (351.923 nm)	1.0265 (ppm)	1.76	1.0265 (ppm)	2155.0679
3/6/2018 20:26:18	Continuing Calibration Verification	V (292.401 nm)	2.5682 (ppm)	1.58	2.5682 (ppm)	78425.4320
3/6/2018 20:26:18	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	1.93	0.97 (Ratio)	711432.21
3/6/2018 20:26:18	Continuing Calibration Verification	Y_R (360.074 nm)	0.97 (Ratio)	1.93	0.97 (Ratio)	714096.11
3/6/2018 20:26:18	Continuing Calibration Verification	Zn (213.857 nm)	1.1739 Q (ppm)	1.67	1.1739 (ppm)	29431.7052 Q
3/6/2018 20:29:38	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u (ppm)	35.31	-0.0003 (ppm)	-126.0778
3/6/2018 20:29:38	Continuing Calibration Blank	Al (394.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	113.4035
3/6/2018 20:29:38	Continuing Calibration Blank	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-0.2113
3/6/2018 20:29:38	Continuing Calibration Blank	B (249.772 nm)	0.0020 (ppm)	32.46	0.0020 (ppm)	119.5231
3/6/2018 20:29:38	Continuing Calibration Blank	Ba (230.424 nm)	0.0011 (ppm)	45.23	0.0011 (ppm)	33.6036
3/6/2018 20:29:38	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	13.30	0.0000 (ppm)	-447.7832
3/6/2018 20:29:38	Continuing Calibration Blank	Ca (227.547 nm)	0.0313 u (ppm)	> 100.00	0.0313 (ppm)	7.6996



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:29:38	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	19.41	0.0001 (ppm)	15.8327
3/6/2018 20:29:38	Continuing Calibration Blank	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-5.3240
3/6/2018 20:29:38	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.4300
3/6/2018 20:29:38	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	20.9978
3/6/2018 20:29:38	Continuing Calibration Blank	Fe (234.350 nm)	0.0019 (ppm)	24.85	0.0019 (ppm)	38.4488
3/6/2018 20:29:38	Continuing Calibration Blank	K (766.491 nm)	0.0190 (ppm)	17.82	0.0190 (ppm)	65.4496
3/6/2018 20:29:38	Continuing Calibration Blank	Mg (279.078 nm)	0.0013 (ppm)	> 100.00	0.0013 (ppm)	-3.6065
3/6/2018 20:29:38	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	38.90	0.0001 (ppm)	24.0044
3/6/2018 20:29:38	Continuing Calibration Blank	Mo (202.032 nm)	0.0010 (ppm)	40.46	0.0010 (ppm)	15.6721
3/6/2018 20:29:38	Continuing Calibration Blank	Na (588.995 nm)	0.0093 (ppm)	23.08	0.0093 (ppm)	-7674.1072
3/6/2018 20:29:38	Continuing Calibration Blank	Ni (230.299 nm)	0.0008 (ppm)	64.22	0.0008 (ppm)	-19.1317
3/6/2018 20:29:38	Continuing Calibration Blank	Pb (220.353 nm)	-0.0013 u (ppm)	96.00	-0.0013 (ppm)	4.3489
3/6/2018 20:29:38	Continuing Calibration Blank	Sb (217.582 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	0.7661
3/6/2018 20:29:38	Continuing Calibration Blank	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-2.5396
3/6/2018 20:29:38	Continuing Calibration Blank	Sn (189.925 nm)	0.0023 (ppm)	18.53	0.0023 (ppm)	2.9099
3/6/2018 20:29:38	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.9730
3/6/2018 20:29:38	Continuing Calibration Blank	Ti (336.122 nm)	0.0008 (ppm)	9.91	0.0008 (ppm)	-442.8544
3/6/2018 20:29:38	Continuing Calibration Blank	Tl (351.923 nm)	-0.0013 u (ppm)	54.86	-0.0013 (ppm)	16.0510
3/6/2018 20:29:38	Continuing Calibration Blank	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	140.1050
3/6/2018 20:29:38	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	1.02	1.01 (Ratio)	743370.43
3/6/2018 20:29:38	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	1.02	1.02 (Ratio)	745934.85
3/6/2018 20:29:38	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-28.4120
3/6/2018 20:32:59	R1801792-001	Ag (328.068 nm)	-0.0004 u (ppm)	25.43	-0.0004 (ppm)	-131.1102
3/6/2018 20:32:59	R1801792-001	Al (394.401 nm)	30.0359 o (ppm)	1.85	30.0359 (ppm)	312163.8201
3/6/2018 20:32:59	R1801792-001	As (188.980 nm)	0.0065 (ppm)	44.04	0.0065 (ppm)	4.0051
3/6/2018 20:32:59	R1801792-001	B (249.772 nm)	0.0350 (ppm)	2.15	0.0350 (ppm)	903.3492
3/6/2018 20:32:59	R1801792-001	Ba (230.424 nm)	0.0806 (ppm)	1.47	0.0806 (ppm)	2340.1194
3/6/2018 20:32:59	R1801792-001	Be (313.107 nm)	0.0015 (ppm)	0.56	0.0015 (ppm)	1360.2804
3/6/2018 20:32:59	R1801792-001	Ca (227.547 nm)	6.1869 (ppm)	2.39	6.1869 (ppm)	296.3946
3/6/2018 20:32:59	R1801792-001	Cd (214.439 nm)	0.0012 (ppm)	9.91	0.0012 (ppm)	36.6798
3/6/2018 20:32:59	R1801792-001	Co (230.786 nm)	0.0164 (ppm)	1.93	0.0164 (ppm)	138.2860
3/6/2018 20:32:59	R1801792-001	Cr (267.716 nm)	0.0315 (ppm)	2.01	0.0315 (ppm)	1295.7545
3/6/2018 20:32:59	R1801792-001	Cu (327.395 nm)	0.0199 (ppm)	1.86	0.0199 (ppm)	989.9471
3/6/2018 20:32:59	R1801792-001	Fe (234.350 nm)	55.1207 o (ppm)	1.70	55.1207 (ppm)	532381.2188
3/6/2018 20:32:59	R1801792-001	K (766.491 nm)	1.6393 (ppm)	2.13	1.6393 (ppm)	4049.5856
3/6/2018 20:32:59	R1801792-001	Mg (279.078 nm)	7.8017 (ppm)	1.69	7.8017 (ppm)	13545.7089
3/6/2018 20:32:59	R1801792-001	Mn (257.610 nm)	1.0093 (ppm)	1.67	1.0093 (ppm)	272980.5022
3/6/2018 20:32:59	R1801792-001	Mo (202.032 nm)	0.0014 (ppm)	24.66	0.0014 (ppm)	18.9937
3/6/2018 20:32:59	R1801792-001	Na (588.995 nm)	0.3987 (ppm)	1.85	0.3987 (ppm)	5631.8270
3/6/2018 20:32:59	R1801792-001	Ni (230.299 nm)	0.0262 (ppm)	0.98	0.0262 (ppm)	137.2278
3/6/2018 20:32:59	R1801792-001	Pb (220.353 nm)	0.0118 (ppm)	2.71	0.0118 (ppm)	29.3365
3/6/2018 20:32:59	R1801792-001	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	2.6963
3/6/2018 20:32:59	R1801792-001	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.3032
3/6/2018 20:32:59	R1801792-001	Sn (189.925 nm)	0.0106 (ppm)	12.60	0.0106 (ppm)	11.5251
3/6/2018 20:32:59	R1801792-001	Sr (216.596 nm)	0.0225 (ppm)	3.16	0.0225 (ppm)	274.4405
3/6/2018 20:32:59	R1801792-001	Ti (336.122 nm)	1.5060 (ppm)	1.83	1.5060 (ppm)	253459.5128
3/6/2018 20:32:59	R1801792-001	Tl (351.923 nm)	-0.0039 u (ppm)	> 100.00	-0.0039 (ppm)	10.6852
3/6/2018 20:32:59	R1801792-001	V (292.401 nm)	0.0798 (ppm)	1.67	0.0798 (ppm)	2569.2577
3/6/2018 20:32:59	R1801792-001	Y (360.074 nm)	1.02 (Ratio)	2.03	1.02 (Ratio)	750269.29
3/6/2018 20:32:59	R1801792-001	Y_R (360.074 nm)	1.03 (Ratio)	2.03	1.03 (Ratio)	752860.25
3/6/2018 20:32:59	R1801792-001	Zn (213.857 nm)	0.1128 (ppm)	2.07	0.1128 (ppm)	2803.6620

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:36:20	R1801792-002	Ag (328.068 nm)	-0.0005 u (ppm)	25.22	-0.0005 (ppm)	-137.7662
3/6/2018 20:36:20	R1801792-002	Al (394.401 nm)	22.4506 o (ppm)	0.79	22.4506 (ppm)	233358.3894
3/6/2018 20:36:20	R1801792-002	As (188.980 nm)	0.0064 (ppm)	42.76	0.0064 (ppm)	3.9955
3/6/2018 20:36:20	R1801792-002	B (249.772 nm)	0.0301 (ppm)	0.43	0.0301 (ppm)	786.4111
3/6/2018 20:36:20	R1801792-002	Ba (230.424 nm)	0.0733 (ppm)	1.39	0.0733 (ppm)	2126.4511
3/6/2018 20:36:20	R1801792-002	Be (313.107 nm)	0.0013 (ppm)	0.55	0.0013 (ppm)	1071.4474
3/6/2018 20:36:20	R1801792-002	Ca (227.547 nm)	6.4948 (ppm)	1.37	6.4948 (ppm)	310.8352
3/6/2018 20:36:20	R1801792-002	Cd (214.439 nm)	0.0008 (ppm)	15.18	0.0008 (ppm)	30.2923
3/6/2018 20:36:20	R1801792-002	Co (230.786 nm)	0.0149 (ppm)	3.31	0.0149 (ppm)	124.8066
3/6/2018 20:36:20	R1801792-002	Cr (267.716 nm)	0.0307 (ppm)	0.72	0.0307 (ppm)	1264.1991
3/6/2018 20:36:20	R1801792-002	Cu (327.395 nm)	0.0155 (ppm)	1.67	0.0155 (ppm)	777.0022
3/6/2018 20:36:20	R1801792-002	Fe (234.350 nm)	48.1701 o (ppm)	0.58	48.1701 (ppm)	465251.7644
3/6/2018 20:36:20	R1801792-002	K (766.491 nm)	1.6871 (ppm)	1.19	1.6871 (ppm)	4167.1031
3/6/2018 20:36:20	R1801792-002	Mg (279.078 nm)	7.5747 (ppm)	0.67	7.5747 (ppm)	13151.4496
3/6/2018 20:36:20	R1801792-002	Mn (257.610 nm)	0.8350 (ppm)	0.60	0.8350 (ppm)	225854.7288
3/6/2018 20:36:20	R1801792-002	Mo (202.032 nm)	0.0009 (ppm)	9.09	0.0009 (ppm)	14.9879
3/6/2018 20:36:20	R1801792-002	Na (588.995 nm)	0.3783 (ppm)	1.10	0.3783 (ppm)	4935.4522
3/6/2018 20:36:20	R1801792-002	Ni (230.299 nm)	0.0203 (ppm)	3.92	0.0203 (ppm)	100.8663
3/6/2018 20:36:20	R1801792-002	Pb (220.353 nm)	0.0097 (ppm)	2.69	0.0097 (ppm)	25.4121
3/6/2018 20:36:20	R1801792-002	Sb (217.582 nm)	-0.0014 u (ppm)	82.43	-0.0014 (ppm)	0.5212
3/6/2018 20:36:20	R1801792-002	Se (196.026 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	-0.1288
3/6/2018 20:36:20	R1801792-002	Sn (189.925 nm)	0.0136 (ppm)	11.04	0.0136 (ppm)	14.5911
3/6/2018 20:36:20	R1801792-002	Sr (216.596 nm)	0.0242 (ppm)	2.18	0.0242 (ppm)	294.6310
3/6/2018 20:36:20	R1801792-002	Ti (336.122 nm)	1.2708 (ppm)	0.71	1.2708 (ppm)	213780.9920
3/6/2018 20:36:20	R1801792-002	Tl (351.923 nm)	-0.0046 u (ppm)	18.81	-0.0046 (ppm)	9.0620
3/6/2018 20:36:20	R1801792-002	V (292.401 nm)	0.0671 (ppm)	0.80	0.0671 (ppm)	2180.8753
3/6/2018 20:36:20	R1801792-002	Y (360.074 nm)	1.03 (Ratio)	1.08	1.03 (Ratio)	757125.55
3/6/2018 20:36:20	R1801792-002	Y_R (360.074 nm)	1.04 (Ratio)	1.08	1.04 (Ratio)	759663.93
3/6/2018 20:36:20	R1801792-002	Zn (213.857 nm)	0.0835 (ppm)	0.94	0.0835 (ppm)	2068.3774
3/6/2018 20:39:41	R1801792-003	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-116.1942
3/6/2018 20:39:41	R1801792-003	Al (394.401 nm)	62.8316 o (ppm)	1.12	62.8316 (ppm)	652884.7069
3/6/2018 20:39:41	R1801792-003	As (188.980 nm)	0.0184 (ppm)	16.26	0.0184 (ppm)	12.7787
3/6/2018 20:39:41	R1801792-003	B (249.772 nm)	0.0586 (ppm)	1.17	0.0586 (ppm)	1462.8968
3/6/2018 20:39:41	R1801792-003	Ba (230.424 nm)	0.3792 (ppm)	0.96	0.3792 (ppm)	10998.8356
3/6/2018 20:39:41	R1801792-003	Be (313.107 nm)	0.0030 (ppm)	0.99	0.0030 (ppm)	3177.2378
3/6/2018 20:39:41	R1801792-003	Ca (227.547 nm)	2.8295 (ppm)	2.43	2.8295 (ppm)	138.9352
3/6/2018 20:39:41	R1801792-003	Cd (214.439 nm)	0.0021 (ppm)	6.15	0.0021 (ppm)	54.6233
3/6/2018 20:39:41	R1801792-003	Co (230.786 nm)	0.0288 (ppm)	0.30	0.0288 (ppm)	249.5769
3/6/2018 20:39:41	R1801792-003	Cr (267.716 nm)	0.0594 (ppm)	0.82	0.0594 (ppm)	2443.4461
3/6/2018 20:39:41	R1801792-003	Cu (327.395 nm)	0.1483 (ppm)	1.24	0.1483 (ppm)	7259.3148
3/6/2018 20:39:41	R1801792-003	Fe (234.350 nm)	97.8997 o (ppm)	0.95	97.8997 (ppm)	945545.2627
3/6/2018 20:39:41	R1801792-003	K (766.491 nm)	2.3342 (ppm)	1.28	2.3342 (ppm)	5758.4445
3/6/2018 20:39:41	R1801792-003	Mg (279.078 nm)	8.4758 (ppm)	0.99	8.4758 (ppm)	14716.7170
3/6/2018 20:39:41	R1801792-003	Mn (257.610 nm)	5.4469 o (ppm)	0.88	5.4469 (ppm)	1473239.6622
3/6/2018 20:39:41	R1801792-003	Mo (202.032 nm)	0.0037 (ppm)	11.92	0.0037 (ppm)	38.1319
3/6/2018 20:39:41	R1801792-003	Na (588.995 nm)	0.4260 (ppm)	0.97	0.4260 (ppm)	6562.1422
3/6/2018 20:39:41	R1801792-003	Ni (230.299 nm)	0.0375 (ppm)	6.28	0.0375 (ppm)	206.3411
3/6/2018 20:39:41	R1801792-003	Pb (220.353 nm)	2.8840 o (ppm)	0.97	2.8840 (ppm)	5537.6192
3/6/2018 20:39:41	R1801792-003	Sb (217.582 nm)	0.0091 (ppm)	13.63	0.0091 (ppm)	12.8140
3/6/2018 20:39:41	R1801792-003	Se (196.026 nm)	0.0030 (ppm)	44.26	0.0030 (ppm)	0.5527
3/6/2018 20:39:41	R1801792-003	Sn (189.925 nm)	0.0123 (ppm)	13.07	0.0123 (ppm)	13.2736

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:39:41	R1801792-003	Sr (216.596 nm)	0.0357 (ppm)	2.06	0.0357 (ppm)	437.0238
3/6/2018 20:39:41	R1801792-003	Ti (336.122 nm)	2.2539 (ppm)	1.01	2.2539 (ppm)	379621.7176
3/6/2018 20:39:41	R1801792-003	Tl (351.923 nm)	-0.0045 u (ppm)	> 100.00	-0.0045 (ppm)	9.3872
3/6/2018 20:39:41	R1801792-003	V (292.401 nm)	0.1466 (ppm)	0.77	0.1466 (ppm)	4605.2282
3/6/2018 20:39:41	R1801792-003	Y (360.074 nm)	1.02 (Ratio)	1.38	1.02 (Ratio)	751211.78
3/6/2018 20:39:41	R1801792-003	Y_R (360.074 nm)	1.03 (Ratio)	1.38	1.03 (Ratio)	753794.80
3/6/2018 20:39:41	R1801792-003	Zn (213.857 nm)	0.3072 (ppm)	1.05	0.3072 (ppm)	7682.8625
3/6/2018 20:43:02	R1801792-004	Ag (328.068 nm)	-0.0003 u (ppm)	29.35	-0.0003 (ppm)	-128.8271
3/6/2018 20:43:02	R1801792-004	Al (394.401 nm)	65.6280 o (ppm)	1.93	65.6280 (ppm)	681936.4523
3/6/2018 20:43:02	R1801792-004	As (188.980 nm)	0.0244 (ppm)	4.47	0.0244 (ppm)	17.1524
3/6/2018 20:43:02	R1801792-004	B (249.772 nm)	0.0641 (ppm)	1.45	0.0641 (ppm)	1593.0993
3/6/2018 20:43:02	R1801792-004	Ba (230.424 nm)	0.3920 (ppm)	1.82	0.3920 (ppm)	11371.2196
3/6/2018 20:43:02	R1801792-004	Be (313.107 nm)	0.0033 (ppm)	1.77	0.0033 (ppm)	3649.3114
3/6/2018 20:43:02	R1801792-004	Ca (227.547 nm)	2.3272 (ppm)	4.55	2.3272 (ppm)	115.3783
3/6/2018 20:43:02	R1801792-004	Cd (214.439 nm)	0.0023 (ppm)	10.16	0.0023 (ppm)	59.6191
3/6/2018 20:43:02	R1801792-004	Co (230.786 nm)	0.0290 (ppm)	3.96	0.0290 (ppm)	250.7731
3/6/2018 20:43:02	R1801792-004	Cr (267.716 nm)	0.0568 (ppm)	1.81	0.0568 (ppm)	2337.7312
3/6/2018 20:43:02	R1801792-004	Cu (327.395 nm)	0.0347 (ppm)	1.86	0.0347 (ppm)	1710.7611
3/6/2018 20:43:02	R1801792-004	Fe (234.350 nm)	107.0986 o (ppm)	1.80	107.0986 (ppm)	1034388.9320
3/6/2018 20:43:02	R1801792-004	K (766.491 nm)	2.2706 (ppm)	2.13	2.2706 (ppm)	5602.0252
3/6/2018 20:43:02	R1801792-004	Mg (279.078 nm)	8.7434 (ppm)	1.79	8.7434 (ppm)	15181.5496
3/6/2018 20:43:02	R1801792-004	Mn (257.610 nm)	5.4509 o (ppm)	1.78	5.4509 (ppm)	1474336.7365
3/6/2018 20:43:02	R1801792-004	Mo (202.032 nm)	0.0035 (ppm)	0.35	0.0035 (ppm)	36.0836
3/6/2018 20:43:02	R1801792-004	Na (588.995 nm)	0.4397 (ppm)	1.54	0.4397 (ppm)	7030.9935
3/6/2018 20:43:02	R1801792-004	Ni (230.299 nm)	0.0397 (ppm)	3.05	0.0397 (ppm)	219.6905
3/6/2018 20:43:02	R1801792-004	Pb (220.353 nm)	0.2842 (ppm)	1.94	0.2842 (ppm)	551.8735
3/6/2018 20:43:02	R1801792-004	Sb (217.582 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-0.4588
3/6/2018 20:43:02	R1801792-004	Se (196.026 nm)	0.0097 (ppm)	35.97	0.0097 (ppm)	5.3767
3/6/2018 20:43:02	R1801792-004	Sn (189.925 nm)	0.0154 (ppm)	8.83	0.0154 (ppm)	16.4250
3/6/2018 20:43:02	R1801792-004	Sr (216.596 nm)	0.0316 (ppm)	1.24	0.0316 (ppm)	386.2066
3/6/2018 20:43:02	R1801792-004	Ti (336.122 nm)	1.9726 (ppm)	1.90	1.9726 (ppm)	332163.8802
3/6/2018 20:43:02	R1801792-004	Tl (351.923 nm)	-0.0061 u (ppm)	68.06	-0.0061 (ppm)	6.0107
3/6/2018 20:43:02	R1801792-004	V (292.401 nm)	0.1563 (ppm)	1.57	0.1563 (ppm)	4900.6008
3/6/2018 20:43:02	R1801792-004	Y (360.074 nm)	1.02 (Ratio)	2.03	1.02 (Ratio)	748296.55
3/6/2018 20:43:02	R1801792-004	Y_R (360.074 nm)	1.02 (Ratio)	2.03	1.02 (Ratio)	750867.27
3/6/2018 20:43:02	R1801792-004	Zn (213.857 nm)	0.3264 (ppm)	2.16	0.3264 (ppm)	8163.4823
3/6/2018 20:46:23	R1801792-005	Ag (328.068 nm)	-0.0003 u (ppm)	27.13	-0.0003 (ppm)	-125.8534
3/6/2018 20:46:23	R1801792-005	Al (394.401 nm)	54.6131 o (ppm)	1.58	54.6131 (ppm)	567500.4060
3/6/2018 20:46:23	R1801792-005	As (188.980 nm)	0.0089 (ppm)	35.96	0.0089 (ppm)	5.8195
3/6/2018 20:46:23	R1801792-005	B (249.772 nm)	0.0485 (ppm)	1.32	0.0485 (ppm)	1223.5981
3/6/2018 20:46:23	R1801792-005	Ba (230.424 nm)	0.3090 (ppm)	1.65	0.3090 (ppm)	8963.9568
3/6/2018 20:46:23	R1801792-005	Be (313.107 nm)	0.0022 (ppm)	1.03	0.0022 (ppm)	2279.4012
3/6/2018 20:46:23	R1801792-005	Ca (227.547 nm)	3.5340 (ppm)	2.10	3.5340 (ppm)	171.9770
3/6/2018 20:46:23	R1801792-005	Cd (214.439 nm)	0.0015 (ppm)	3.17	0.0015 (ppm)	43.4942
3/6/2018 20:46:23	R1801792-005	Co (230.786 nm)	0.0218 (ppm)	1.58	0.0218 (ppm)	186.5984
3/6/2018 20:46:23	R1801792-005	Cr (267.716 nm)	0.0430 (ppm)	1.09	0.0430 (ppm)	1766.9730
3/6/2018 20:46:23	R1801792-005	Cu (327.395 nm)	0.0189 (ppm)	1.32	0.0189 (ppm)	942.6657
3/6/2018 20:46:23	R1801792-005	Fe (234.350 nm)	81.0755 o (ppm)	1.48	81.0755 (ppm)	783055.2490
3/6/2018 20:46:23	R1801792-005	K (766.491 nm)	1.5464 (ppm)	2.11	1.5464 (ppm)	3821.1538
3/6/2018 20:46:23	R1801792-005	Mg (279.078 nm)	7.6794 (ppm)	1.58	7.6794 (ppm)	13333.3808
3/6/2018 20:46:23	R1801792-005	Mn (257.610 nm)	3.4092 o (ppm)	1.49	3.4092 (ppm)	922112.9812

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:46:23	R1801792-005	Mo (202.032 nm)	0.0015 (ppm)	13.28	0.0015 (ppm)	19.4243
3/6/2018 20:46:23	R1801792-005	Na (588.995 nm)	0.3750 (ppm)	1.30	0.3750 (ppm)	4820.0854
3/6/2018 20:46:23	R1801792-005	Ni (230.299 nm)	0.0256 (ppm)	4.36	0.0256 (ppm)	133.5136
3/6/2018 20:46:23	R1801792-005	Pb (220.353 nm)	0.0221 (ppm)	2.30	0.0221 (ppm)	49.2348
3/6/2018 20:46:23	R1801792-005	Sb (217.582 nm)	-0.0048 u (ppm)	28.29	-0.0048 (ppm)	-3.5781
3/6/2018 20:46:23	R1801792-005	Se (196.026 nm)	0.0038 (ppm)	83.93	0.0038 (ppm)	1.0968
3/6/2018 20:46:23	R1801792-005	Sn (189.925 nm)	0.0127 (ppm)	11.97	0.0127 (ppm)	13.6880
3/6/2018 20:46:23	R1801792-005	Sr (216.596 nm)	0.0304 (ppm)	2.35	0.0304 (ppm)	371.7842
3/6/2018 20:46:23	R1801792-005	Ti (336.122 nm)	1.7470 (ppm)	1.51	1.7470 (ppm)	294104.8262
3/6/2018 20:46:23	R1801792-005	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	18.1973
3/6/2018 20:46:23	R1801792-005	V (292.401 nm)	0.1178 (ppm)	1.63	0.1178 (ppm)	3726.2862
3/6/2018 20:46:23	R1801792-005	Y (360.074 nm)	1.02 (Ratio)	1.83	1.02 (Ratio)	747089.81
3/6/2018 20:46:23	R1801792-005	Y_R (360.074 nm)	1.02 (Ratio)	1.83	1.02 (Ratio)	749603.47
3/6/2018 20:46:23	R1801792-005	Zn (213.857 nm)	0.2078 (ppm)	1.59	0.2078 (ppm)	5187.3295
3/6/2018 20:49:43	R1801792-006	Ag (328.068 nm)	-0.0004 u (ppm)	30.74	-0.0004 (ppm)	-131.2564
3/6/2018 20:49:43	R1801792-006	Al (394.401 nm)	102.3628 o (ppm)	2.42	102.3628 (ppm)	1063580.9376
3/6/2018 20:49:43	R1801792-006	As (188.980 nm)	0.0242 (ppm)	10.81	0.0242 (ppm)	17.0331
3/6/2018 20:49:43	R1801792-006	B (249.772 nm)	0.0837 (ppm)	2.33	0.0837 (ppm)	2058.1056
3/6/2018 20:49:43	R1801792-006	Ba (230.424 nm)	0.2357 (ppm)	2.50	0.2357 (ppm)	6836.1910
3/6/2018 20:49:43	R1801792-006	Be (313.107 nm)	0.0040 (ppm)	2.19	0.0040 (ppm)	4433.1365
3/6/2018 20:49:43	R1801792-006	Ca (227.547 nm)	39.8104 (ppm)	2.26	39.8104 (ppm)	1873.3260
3/6/2018 20:49:43	R1801792-006	Cd (214.439 nm)	0.0015 (ppm)	13.18	0.0015 (ppm)	43.5026
3/6/2018 20:49:43	R1801792-006	Co (230.786 nm)	0.0417 (ppm)	3.93	0.0417 (ppm)	364.8442
3/6/2018 20:49:43	R1801792-006	Cr (267.716 nm)	0.0732 (ppm)	1.98	0.0732 (ppm)	3012.8155
3/6/2018 20:49:43	R1801792-006	Cu (327.395 nm)	0.0979 (ppm)	2.67	0.0979 (ppm)	4799.8816
3/6/2018 20:49:43	R1801792-006	Fe (234.350 nm)	133.8304 o (ppm)	2.19	133.8304 (ppm)	1292567.6424
3/6/2018 20:49:43	R1801792-006	K (766.491 nm)	2.0185 (ppm)	2.87	2.0185 (ppm)	4982.0477
3/6/2018 20:49:43	R1801792-006	Mg (279.078 nm)	39.4484 (ppm)	2.20	39.4484 (ppm)	68516.4865
3/6/2018 20:49:43	R1801792-006	Mn (257.610 nm)	1.2998 (ppm)	2.22	1.2998 (ppm)	351561.3634
3/6/2018 20:49:43	R1801792-006	Mo (202.032 nm)	0.0032 (ppm)	8.19	0.0032 (ppm)	33.9679
3/6/2018 20:49:43	R1801792-006	Na (588.995 nm)	0.5474 (ppm)	2.19	0.5474 (ppm)	10709.9875
3/6/2018 20:49:43	R1801792-006	Ni (230.299 nm)	0.0600 (ppm)	1.31	0.0600 (ppm)	344.4124
3/6/2018 20:49:43	R1801792-006	Pb (220.353 nm)	0.0630 (ppm)	3.84	0.0630 (ppm)	127.5199
3/6/2018 20:49:43	R1801792-006	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	2.2580
3/6/2018 20:49:43	R1801792-006	Se (196.026 nm)	0.0038 (ppm)	68.27	0.0038 (ppm)	1.0746
3/6/2018 20:49:43	R1801792-006	Sn (189.925 nm)	0.0102 (ppm)	23.24	0.0102 (ppm)	11.0442
3/6/2018 20:49:43	R1801792-006	Sr (216.596 nm)	0.0639 (ppm)	3.28	0.0639 (ppm)	784.2413
3/6/2018 20:49:43	R1801792-006	Ti (336.122 nm)	2.7599 (ppm)	2.34	2.7599 (ppm)	464972.9359
3/6/2018 20:49:43	R1801792-006	Tl (351.923 nm)	-0.0063 u (ppm)	34.43	-0.0063 (ppm)	5.6303
3/6/2018 20:49:43	R1801792-006	V (292.401 nm)	0.2056 (ppm)	2.26	0.2056 (ppm)	6404.2444
3/6/2018 20:49:43	R1801792-006	Y (360.074 nm)	0.99 (Ratio)	2.32	0.99 (Ratio)	729091.13
3/6/2018 20:49:43	R1801792-006	Y_R (360.074 nm)	1.00 (Ratio)	2.32	1.00 (Ratio)	731634.29
3/6/2018 20:49:43	R1801792-006	Zn (213.857 nm)	0.3313 (ppm)	2.32	0.3313 (ppm)	8286.2136
3/6/2018 20:53:04	R1801792-007	Ag (328.068 nm)	-0.0004 u (ppm)	11.35	-0.0004 (ppm)	-131.8424
3/6/2018 20:53:04	R1801792-007	Al (394.401 nm)	74.4980 o (ppm)	1.28	74.4980 (ppm)	774089.0670
3/6/2018 20:53:04	R1801792-007	As (188.980 nm)	0.0107 (ppm)	15.46	0.0107 (ppm)	7.1307
3/6/2018 20:53:04	R1801792-007	B (249.772 nm)	0.0474 (ppm)	1.28	0.0474 (ppm)	1196.3604
3/6/2018 20:53:04	R1801792-007	Ba (230.424 nm)	0.1545 (ppm)	0.91	0.1545 (ppm)	4481.5830
3/6/2018 20:53:04	R1801792-007	Be (313.107 nm)	0.0028 (ppm)	0.67	0.0028 (ppm)	2971.9682
3/6/2018 20:53:04	R1801792-007	Ca (227.547 nm)	5.6391 (ppm)	0.43	5.6391 (ppm)	270.7033
3/6/2018 20:53:04	R1801792-007	Cd (214.439 nm)	0.0008 (ppm)	13.19	0.0008 (ppm)	28.5902

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:53:04	R1801792-007	Co (230.786 nm)	0.0216 (ppm)	2.77	0.0216 (ppm)	184.7274
3/6/2018 20:53:04	R1801792-007	Cr (267.716 nm)	0.0460 (ppm)	1.46	0.0460 (ppm)	1891.5067
3/6/2018 20:53:04	R1801792-007	Cu (327.395 nm)	0.0217 (ppm)	0.32	0.0217 (ppm)	1079.8004
3/6/2018 20:53:04	R1801792-007	Fe (234.350 nm)	78.5392 o (ppm)	0.95	78.5392 (ppm)	758558.7188
3/6/2018 20:53:04	R1801792-007	K (766.491 nm)	1.2086 (ppm)	1.59	1.2086 (ppm)	2990.5691
3/6/2018 20:53:04	R1801792-007	Mg (279.078 nm)	9.0095 (ppm)	1.07	9.0095 (ppm)	15643.7793
3/6/2018 20:53:04	R1801792-007	Mn (257.610 nm)	0.5332 (ppm)	1.09	0.5332 (ppm)	144214.8629
3/6/2018 20:53:04	R1801792-007	Mo (202.032 nm)	0.0018 (ppm)	19.21	0.0018 (ppm)	21.8619
3/6/2018 20:53:04	R1801792-007	Na (588.995 nm)	0.5102 (ppm)	1.26	0.5102 (ppm)	9440.1990
3/6/2018 20:53:04	R1801792-007	Ni (230.299 nm)	0.0300 (ppm)	3.11	0.0300 (ppm)	160.1117
3/6/2018 20:53:04	R1801792-007	Pb (220.353 nm)	0.0246 (ppm)	3.06	0.0246 (ppm)	53.9947
3/6/2018 20:53:04	R1801792-007	Sb (217.582 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-0.0982
3/6/2018 20:53:04	R1801792-007	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.9254
3/6/2018 20:53:04	R1801792-007	Sn (189.925 nm)	0.0122 (ppm)	12.51	0.0122 (ppm)	13.1237
3/6/2018 20:53:04	R1801792-007	Sr (216.596 nm)	0.0245 (ppm)	2.89	0.0245 (ppm)	298.6661
3/6/2018 20:53:04	R1801792-007	Ti (336.122 nm)	2.3647 (ppm)	1.13	2.3647 (ppm)	398304.3117
3/6/2018 20:53:04	R1801792-007	Ti (351.923 nm)	-0.0025 u (ppm)	48.29	-0.0025 (ppm)	13.5580
3/6/2018 20:53:04	R1801792-007	V (292.401 nm)	0.1221 (ppm)	1.07	0.1221 (ppm)	3858.9606
3/6/2018 20:53:04	R1801792-007	Y (360.074 nm)	1.03 (Ratio)	1.42	1.03 (Ratio)	752357.82
3/6/2018 20:53:04	R1801792-007	Y_R (360.074 nm)	1.03 (Ratio)	1.42	1.03 (Ratio)	754842.84
3/6/2018 20:53:04	R1801792-007	Zn (213.857 nm)	0.1916 (ppm)	0.73	0.1916 (ppm)	4781.2393
3/6/2018 20:56:25	R1801792-008	Ag (328.068 nm)	-0.0003 u (ppm)	48.28	-0.0003 (ppm)	-127.2749
3/6/2018 20:56:25	R1801792-008	Al (394.401 nm)	79.3057 o (ppm)	1.24	79.3057 (ppm)	824036.8536
3/6/2018 20:56:25	R1801792-008	As (188.980 nm)	0.0077 (ppm)	15.29	0.0077 (ppm)	4.9109
3/6/2018 20:56:25	R1801792-008	B (249.772 nm)	0.0462 (ppm)	0.60	0.0462 (ppm)	1167.4585
3/6/2018 20:56:25	R1801792-008	Ba (230.424 nm)	0.1470 (ppm)	0.98	0.1470 (ppm)	4264.3998
3/6/2018 20:56:25	R1801792-008	Be (313.107 nm)	0.0027 (ppm)	0.96	0.0027 (ppm)	2805.2464
3/6/2018 20:56:25	R1801792-008	Ca (227.547 nm)	2.6526 (ppm)	2.33	2.6526 (ppm)	130.6388
3/6/2018 20:56:25	R1801792-008	Cd (214.439 nm)	0.0010 (ppm)	31.51	0.0010 (ppm)	34.0494
3/6/2018 20:56:25	R1801792-008	Co (230.786 nm)	0.0214 (ppm)	3.19	0.0214 (ppm)	183.4302
3/6/2018 20:56:25	R1801792-008	Cr (267.716 nm)	0.0447 (ppm)	1.09	0.0447 (ppm)	1838.9349
3/6/2018 20:56:25	R1801792-008	Cu (327.395 nm)	0.0203 (ppm)	1.14	0.0203 (ppm)	1009.5483
3/6/2018 20:56:25	R1801792-008	Fe (234.350 nm)	77.3055 o (ppm)	0.97	77.3055 (ppm)	746643.6321
3/6/2018 20:56:25	R1801792-008	K (766.491 nm)	1.0840 (ppm)	1.34	1.0840 (ppm)	2684.1959
3/6/2018 20:56:25	R1801792-008	Mg (279.078 nm)	6.7717 (ppm)	1.22	6.7717 (ppm)	11756.5690
3/6/2018 20:56:25	R1801792-008	Mn (257.610 nm)	0.5347 (ppm)	1.09	0.5347 (ppm)	144613.8706
3/6/2018 20:56:25	R1801792-008	Mo (202.032 nm)	0.0015 (ppm)	38.65	0.0015 (ppm)	19.3377
3/6/2018 20:56:25	R1801792-008	Na (588.995 nm)	2.8487 (ppm)	1.38	2.8487 (ppm)	89337.3407
3/6/2018 20:56:25	R1801792-008	Ni (230.299 nm)	0.0272 (ppm)	1.29	0.0272 (ppm)	142.8712
3/6/2018 20:56:25	R1801792-008	Pb (220.353 nm)	0.0231 (ppm)	1.06	0.0231 (ppm)	51.1487
3/6/2018 20:56:25	R1801792-008	Sb (217.582 nm)	-0.0022 u (ppm)	88.24	-0.0022 (ppm)	-0.4315
3/6/2018 20:56:25	R1801792-008	Se (196.026 nm)	0.0040 u (ppm)	> 100.00	0.0040 (ppm)	1.2450
3/6/2018 20:56:25	R1801792-008	Sn (189.925 nm)	0.0112 (ppm)	17.13	0.0112 (ppm)	12.0904
3/6/2018 20:56:25	R1801792-008	Sr (216.596 nm)	0.0230 (ppm)	1.87	0.0230 (ppm)	279.8780
3/6/2018 20:56:25	R1801792-008	Ti (336.122 nm)	2.1896 (ppm)	1.10	2.1896 (ppm)	368769.4923
3/6/2018 20:56:25	R1801792-008	Ti (351.923 nm)	-0.0026 u (ppm)	27.92	-0.0026 (ppm)	13.3356
3/6/2018 20:56:25	R1801792-008	V (292.401 nm)	0.1209 (ppm)	0.91	0.1209 (ppm)	3820.2552
3/6/2018 20:56:25	R1801792-008	Y (360.074 nm)	1.02 (Ratio)	1.48	1.02 (Ratio)	748180.91
3/6/2018 20:56:25	R1801792-008	Y_R (360.074 nm)	1.02 (Ratio)	1.48	1.02 (Ratio)	750636.29
3/6/2018 20:56:25	R1801792-008	Zn (213.857 nm)	0.1911 (ppm)	1.46	0.1911 (ppm)	4769.2177
3/6/2018 20:59:46	R1801792-009	Ag (328.068 nm)	-0.0002 u (ppm)	44.41	-0.0002 (ppm)	-119.3247

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 20:59:46	R1801792-009	Al (394.401 nm)	92.6003 o (ppm)	2.59	92.6003 (ppm)	962157.2082
3/6/2018 20:59:46	R1801792-009	As (188.980 nm)	0.0083 (ppm)	20.25	0.0083 (ppm)	5.3387
3/6/2018 20:59:46	R1801792-009	B (249.772 nm)	0.0553 (ppm)	2.06	0.0553 (ppm)	1385.4309
3/6/2018 20:59:46	R1801792-009	Ba (230.424 nm)	0.2179 (ppm)	2.35	0.2179 (ppm)	6319.6135
3/6/2018 20:59:46	R1801792-009	Be (313.107 nm)	0.0034 (ppm)	2.28	0.0034 (ppm)	3726.3198
3/6/2018 20:59:46	R1801792-009	Ce (227.547 nm)	1.8116 (ppm)	4.05	1.8116 (ppm)	91.1949
3/6/2018 20:59:46	R1801792-009	Cd (214.439 nm)	0.0010 (ppm)	8.07	0.0010 (ppm)	33.8368
3/6/2018 20:59:46	R1801792-009	Co (230.786 nm)	0.0252 (ppm)	3.43	0.0252 (ppm)	216.7241
3/6/2018 20:59:46	R1801792-009	Cr (267.716 nm)	0.0561 (ppm)	2.44	0.0561 (ppm)	2306.3259
3/6/2018 20:59:46	R1801792-009	Cu (327.395 nm)	0.0217 (ppm)	2.78	0.0217 (ppm)	1077.2784
3/6/2018 20:59:46	R1801792-009	Fe (234.350 nm)	93.5118 o (ppm)	2.52	93.5118 (ppm)	903166.0344
3/6/2018 20:59:46	R1801792-009	K (766.491 nm)	1.2194 (ppm)	3.45	1.2194 (ppm)	3017.0162
3/6/2018 20:59:46	R1801792-009	Mg (279.078 nm)	6.7416 (ppm)	2.53	6.7416 (ppm)	11704.2544
3/6/2018 20:59:46	R1801792-009	Mn (257.610 nm)	0.6354 (ppm)	2.52	0.6354 (ppm)	171863.0775
3/6/2018 20:59:46	R1801792-009	Mo (202.032 nm)	0.0027 (ppm)	10.72	0.0027 (ppm)	29.5199
3/6/2018 20:59:46	R1801792-009	Na (588.995 nm)	0.3917 (ppm)	2.48	0.3917 (ppm)	5391.0929
3/6/2018 20:59:46	R1801792-009	Ni (230.299 nm)	0.0343 (ppm)	4.65	0.0343 (ppm)	186.8657
3/6/2018 20:59:46	R1801792-009	Pb (220.353 nm)	0.0277 (ppm)	4.41	0.0277 (ppm)	59.8280
3/6/2018 20:59:46	R1801792-009	Sb (217.582 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	0.4357
3/6/2018 20:59:46	R1801792-009	Se (196.026 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	0.0408
3/6/2018 20:59:46	R1801792-009	Sn (189.925 nm)	0.0128 (ppm)	12.65	0.0128 (ppm)	13.7655
3/6/2018 20:59:46	R1801792-009	Sr (216.596 nm)	0.0292 (ppm)	0.70	0.0292 (ppm)	356.6492
3/6/2018 20:59:46	R1801792-009	Ti (336.122 nm)	2.5565 (ppm)	2.50	2.5565 (ppm)	430664.8082
3/6/2018 20:59:46	R1801792-009	Tl (351.923 nm)	0.0027 (ppm)	54.44	0.0027 (ppm)	24.2694
3/6/2018 20:59:46	R1801792-009	V (292.401 nm)	0.1521 (ppm)	2.61	0.1521 (ppm)	4772.6036
3/6/2018 20:59:46	R1801792-009	Y (360.074 nm)	1.01 (Ratio)	2.44	1.01 (Ratio)	738477.83
3/6/2018 20:59:46	R1801792-009	Y_R (360.074 nm)	1.01 (Ratio)	2.44	1.01 (Ratio)	740868.79
3/6/2018 20:59:46	R1801792-009	Zn (213.857 nm)	0.2420 (ppm)	2.57	0.2420 (ppm)	6045.6369
3/6/2018 21:03:08	R1801804-004	Ag (328.068 nm)	-0.0004 u (ppm)	41.36	-0.0004 (ppm)	-133.6451
3/6/2018 21:03:08	R1801804-004	Al (394.401 nm)	30.2692 o (ppm)	2.10	30.2692 (ppm)	314587.8189
3/6/2018 21:03:08	R1801804-004	As (188.980 nm)	0.0181 (ppm)	11.21	0.0181 (ppm)	12.5472
3/6/2018 21:03:08	R1801804-004	B (249.772 nm)	0.0683 (ppm)	2.12	0.0683 (ppm)	1692.4292
3/6/2018 21:03:08	R1801804-004	Ba (230.424 nm)	0.2338 (ppm)	2.09	0.2338 (ppm)	6780.7225
3/6/2018 21:03:08	R1801804-004	Be (313.107 nm)	0.0014 (ppm)	2.41	0.0014 (ppm)	1207.5838
3/6/2018 21:03:08	R1801804-004	Ce (227.547 nm)	379.1794 o (ppm)	2.08	379.1794 (ppm)	17789.6006
3/6/2018 21:03:08	R1801804-004	Cd (214.439 nm)	0.0008 (ppm)	30.73	0.0008 (ppm)	30.4078
3/6/2018 21:03:08	R1801804-004	Co (230.786 nm)	0.0246 (ppm)	0.90	0.0246 (ppm)	212.0569
3/6/2018 21:03:08	R1801804-004	Cr (267.716 nm)	0.0465 (ppm)	1.39	0.0465 (ppm)	1913.7643
3/6/2018 21:03:08	R1801804-004	Cu (327.395 nm)	0.0866 (ppm)	2.37	0.0866 (ppm)	4243.7803
3/6/2018 21:03:08	R1801804-004	Fe (234.350 nm)	77.4372 o (ppm)	1.97	77.4372 (ppm)	747916.0161
3/6/2018 21:03:08	R1801804-004	K (766.491 nm)	5.5922 (ppm)	2.32	5.5922 (ppm)	13769.9293
3/6/2018 21:03:08	R1801804-004	Mg (279.078 nm)	75.6477 o (ppm)	1.96	75.6477 (ppm)	131395.0286
3/6/2018 21:03:08	R1801804-004	Mn (257.610 nm)	2.7065 o (ppm)	1.74	2.7065 (ppm)	732034.5585
3/6/2018 21:03:08	R1801804-004	Mo (202.032 nm)	0.0013 (ppm)	19.09	0.0013 (ppm)	18.0987
3/6/2018 21:03:08	R1801804-004	Na (588.995 nm)	0.9535 (ppm)	2.17	0.9535 (ppm)	24585.4101
3/6/2018 21:03:08	R1801804-004	Ni (230.299 nm)	0.0493 (ppm)	5.38	0.0493 (ppm)	278.8493
3/6/2018 21:03:08	R1801804-004	Pb (220.353 nm)	0.0323 (ppm)	4.95	0.0323 (ppm)	68.6424
3/6/2018 21:03:08	R1801804-004	Sb (217.582 nm)	-0.0015 u (ppm)	19.45	-0.0015 (ppm)	0.2963
3/6/2018 21:03:08	R1801804-004	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.2858
3/6/2018 21:03:08	R1801804-004	Sn (189.925 nm)	0.0102 (ppm)	22.22	0.0102 (ppm)	11.0785
3/6/2018 21:03:08	R1801804-004	Sr (216.596 nm)	0.5105 (ppm)	2.23	0.5105 (ppm)	6281.9287

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:03:08	R1801804-004	Ti (336.122 nm)	1.0663 (ppm)	2.15	1.0663 (ppm)	179291.6439
3/6/2018 21:03:08	R1801804-004	Ti (351.923 nm)	0.0049 (ppm)	82.16	0.0049 (ppm)	28.9612
3/6/2018 21:03:08	R1801804-004	V (292.401 nm)	0.0998 (ppm)	2.10	0.0998 (ppm)	3179.1311
3/6/2018 21:03:08	R1801804-004	Y (360.074 nm)	0.96 (Ratio)	2.18	0.96 (Ratio)	704631.41
3/6/2018 21:03:08	R1801804-004	Y_R (360.074 nm)	0.96 (Ratio)	2.18	0.96 (Ratio)	707029.90
3/6/2018 21:03:08	R1801804-004	Zn (213.857 nm)	0.1732 (ppm)	2.04	0.1732 (ppm)	4319.7149
3/6/2018 21:06:29	Continuing Calibration Verification	Ag (328.068 nm)	0.4838 (ppm)	1.82	0.4838 (ppm)	29054.1161
3/6/2018 21:06:29	Continuing Calibration Verification	Al (394.401 nm)	9.7873 (ppm)	1.70	9.7873 (ppm)	101797.2841
3/6/2018 21:06:29	Continuing Calibration Verification	As (188.980 nm)	0.9622 (ppm)	2.08	0.9622 (ppm)	706.0254
3/6/2018 21:06:29	Continuing Calibration Verification	B (249.772 nm)	2.4384 (ppm)	1.65	2.4384 (ppm)	57913.4332
3/6/2018 21:06:29	Continuing Calibration Verification	Ba (230.424 nm)	10.3698 (ppm)	1.47	10.3698 (ppm)	300745.7221
3/6/2018 21:06:29	Continuing Calibration Verification	Be (313.107 nm)	0.2538 (ppm)	1.59	0.2538 (ppm)	314690.6005
3/6/2018 21:06:29	Continuing Calibration Verification	Ca (227.547 nm)	24.3104 (ppm)	1.81	24.3104 (ppm)	1146.3821
3/6/2018 21:06:29	Continuing Calibration Verification	Cd (214.439 nm)	0.5025 (ppm)	1.66	0.5025 (ppm)	9898.7356
3/6/2018 21:06:29	Continuing Calibration Verification	Co (230.786 nm)	2.5957 (ppm)	1.70	2.5957 (ppm)	23194.7321
3/6/2018 21:06:29	Continuing Calibration Verification	Cr (267.716 nm)	0.5271 (ppm)	1.66	0.5271 (ppm)	21690.4889
3/6/2018 21:06:29	Continuing Calibration Verification	Cu (327.395 nm)	1.2283 (ppm)	1.77	1.2283 (ppm)	59981.7624
3/6/2018 21:06:29	Continuing Calibration Verification	Fe (234.350 nm)	5.0853 (ppm)	1.71	5.0853 (ppm)	49133.9813
3/6/2018 21:06:29	Continuing Calibration Verification	K (766.491 nm)	23.9969 (ppm)	1.94	23.9969 (ppm)	59026.9609
3/6/2018 21:06:29	Continuing Calibration Verification	Mg (279.078 nm)	25.1184 (ppm)	1.73	25.1184 (ppm)	43625.0688
3/6/2018 21:06:29	Continuing Calibration Verification	Mn (257.610 nm)	0.7742 (ppm)	1.62	0.7742 (ppm)	209407.5539
3/6/2018 21:06:29	Continuing Calibration Verification	Mo (202.032 nm)	2.3816 (ppm)	1.61	2.3816 (ppm)	19905.2122
3/6/2018 21:06:29	Continuing Calibration Verification	Na (588.995 nm)	25.2076 (ppm)	2.10	25.2076 (ppm)	853244.3666
3/6/2018 21:06:29	Continuing Calibration Verification	Ni (230.299 nm)	2.0677 (ppm)	1.74	2.0677 (ppm)	12664.1460
3/6/2018 21:06:29	Continuing Calibration Verification	Pb (220.353 nm)	0.5039 (ppm)	1.78	0.5039 (ppm)	973.0753
3/6/2018 21:06:29	Continuing Calibration Verification	Sb (217.582 nm)	4.9503 (ppm)	1.79	4.9503 (ppm)	5830.7967
3/6/2018 21:06:29	Continuing Calibration Verification	Se (196.026 nm)	0.4789 (ppm)	2.16	0.4789 (ppm)	346.5093
3/6/2018 21:06:29	Continuing Calibration Verification	Sn (189.925 nm)	5.0507 (ppm)	1.37	5.0507 (ppm)	5200.3913
3/6/2018 21:06:29	Continuing Calibration Verification	Sr (216.596 nm)	2.5751 (ppm)	1.87	2.5751 (ppm)	31696.8924
3/6/2018 21:06:29	Continuing Calibration Verification	Ti (336.122 nm)	2.5226 (ppm)	1.64	2.5226 (ppm)	424943.2671
3/6/2018 21:06:29	Continuing Calibration Verification	Ti (351.923 nm)	1.0091 (ppm)	1.83	1.0091 (ppm)	2118.9569
3/6/2018 21:06:29	Continuing Calibration Verification	V (292.401 nm)	2.5595 (ppm)	1.61	2.5595 (ppm)	78159.3988
3/6/2018 21:06:29	Continuing Calibration Verification	Y (360.074 nm)	0.97 (Ratio)	1.83	0.97 (Ratio)	714730.43
3/6/2018 21:06:29	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	1.83	0.98 (Ratio)	716931.92
3/6/2018 21:06:29	Continuing Calibration Verification	Zn (213.857 nm)	1.1666 Q (ppm)	1.66	1.1666 (ppm)	29248.0626 Q
3/6/2018 21:09:50	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	67.38	-0.0002 (ppm)	-123.5363
3/6/2018 21:09:50	Continuing Calibration Blank	Al (394.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	117.3330
3/6/2018 21:09:50	Continuing Calibration Blank	As (188.980 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-2.0942
3/6/2018 21:09:50	Continuing Calibration Blank	B (249.772 nm)	0.0017 (ppm)	34.21	0.0017 (ppm)	113.5332
3/6/2018 21:09:50	Continuing Calibration Blank	Ba (230.424 nm)	0.0011 (ppm)	70.44	0.0011 (ppm)	33.2042
3/6/2018 21:09:50	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	25.91	0.0000 (ppm)	-449.5034
3/6/2018 21:09:50	Continuing Calibration Blank	Ca (227.547 nm)	0.0044 u (ppm)	> 100.00	0.0044 (ppm)	6.4359
3/6/2018 21:09:50	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	26.68	0.0001 (ppm)	16.5079
3/6/2018 21:09:50	Continuing Calibration Blank	Co (230.786 nm)	0.0003 (ppm)	54.43	0.0003 (ppm)	-5.6005
3/6/2018 21:09:50	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	91.43	0.0001 (ppm)	3.6232
3/6/2018 21:09:50	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	23.3729
3/6/2018 21:09:50	Continuing Calibration Blank	Fe (234.350 nm)	0.0018 (ppm)	15.07	0.0018 (ppm)	37.2740
3/6/2018 21:09:50	Continuing Calibration Blank	K (766.491 nm)	0.0081 u (ppm)	> 100.00	0.0081 (ppm)	38.5510
3/6/2018 21:09:50	Continuing Calibration Blank	Mg (279.078 nm)	0.0028 (ppm)	87.13	0.0028 (ppm)	-1.0337
3/6/2018 21:09:50	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	72.55	0.0001 (ppm)	24.3697
3/6/2018 21:09:50	Continuing Calibration Blank	Mo (202.032 nm)	0.0011 (ppm)	3.33	0.0011 (ppm)	16.5393

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intenshy
3/6/2018 21:09:50	Continuing Calibration Blank	Na (588.995 nm)	0.0070 (ppm)	45.55	0.0070 (ppm)	-7753.4102
3/6/2018 21:09:50	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-24.0302
3/6/2018 21:09:50	Continuing Calibration Blank	Pb (220.353 nm)	-0.0016 u (ppm)	51.48	-0.0016 (ppm)	3.7282
3/6/2018 21:09:50	Continuing Calibration Blank	Sb (217.582 nm)	0.0015 (ppm)	> 100.00	0.0015 (ppm)	3.9364
3/6/2018 21:09:50	Continuing Calibration Blank	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-2.1995
3/6/2018 21:09:50	Continuing Calibration Blank	Sn (189.925 nm)	0.0019 (ppm)	83.04	0.0019 (ppm)	2.5054
3/6/2018 21:09:50	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	87.99	0.0002 (ppm)	-0.8119
3/6/2018 21:09:50	Continuing Calibration Blank	Tl (336.122 nm)	0.0009 (ppm)	1.44	0.0009 (ppm)	-420.7880
3/6/2018 21:09:50	Continuing Calibration Blank	Tl (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	16.5639
3/6/2018 21:09:50	Continuing Calibration Blank	V (292.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	142.0238
3/6/2018 21:09:50	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	1.12	1.02 (Ratio)	746471.98
3/6/2018 21:09:50	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	1.12	1.02 (Ratio)	748533.04
3/6/2018 21:09:50	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-28.1968
3/6/2018 21:13:10	R1801804-004S	Ag (328.068 nm)	0.0473 (ppm)	0.94	0.0473 (ppm)	2741.6924
3/6/2018 21:13:10	R1801804-004S	Al (394.401 nm)	33.9269 o (ppm)	0.90	33.9269 (ppm)	352587.9079
3/6/2018 21:13:10	R1801804-004S	As (188.980 nm)	0.0507 (ppm)	18.84	0.0507 (ppm)	36.4777
3/6/2018 21:13:10	R1801804-004S	B (249.772 nm)	0.9639 (ppm)	0.71	0.9639 (ppm)	22937.6954
3/6/2018 21:13:10	R1801804-004S	Ba (230.424 nm)	2.1262 (ppm)	1.07	2.1262 (ppm)	61666.0841
3/6/2018 21:13:10	R1801804-004S	Be (313.107 nm)	0.0469 (ppm)	0.83	0.0469 (ppm)	57794.2558
3/6/2018 21:13:10	R1801804-004S	Ce (227.547 nm)	385.1464 o (ppm)	0.98	385.1464 (ppm)	18069.4496
3/6/2018 21:13:10	R1801804-004S	Cd (214.439 nm)	0.0466 (ppm)	0.68	0.0466 (ppm)	929.9270
3/6/2018 21:13:10	R1801804-004S	Co (230.786 nm)	0.4820 (ppm)	0.87	0.4820 (ppm)	4300.7706
3/6/2018 21:13:10	R1801804-004S	Cr (267.716 nm)	0.2384 (ppm)	0.89	0.2384 (ppm)	9811.7064
3/6/2018 21:13:10	R1801804-004S	Cu (327.395 nm)	0.3190 (ppm)	1.16	0.3190 (ppm)	15589.7812
3/6/2018 21:13:10	R1801804-004S	Fe (234.350 nm)	76.5543 o (ppm)	0.62	76.5543 (ppm)	739388.8147
3/6/2018 21:13:10	R1801804-004S	K (766.491 nm)	24.9539 (ppm)	1.30	24.9539 (ppm)	61360.1054
3/6/2018 21:13:10	R1801804-004S	Mg (279.078 nm)	74.5646 o (ppm)	0.80	74.5646 (ppm)	129513.6268
3/6/2018 21:13:10	R1801804-004S	Mn (257.610 nm)	3.6062 o (ppm)	0.51	3.6062 (ppm)	975379.4344
3/6/2018 21:13:10	R1801804-004S	Mo (202.032 nm)	0.4681 (ppm)	0.81	0.4681 (ppm)	3918.2583
3/6/2018 21:13:10	R1801804-004S	Na (588.995 nm)	21.7739 (ppm)	1.10	21.7739 (ppm)	735930.1847
3/6/2018 21:13:10	R1801804-004S	Ni (230.299 nm)	0.4921 (ppm)	0.66	0.4921 (ppm)	2995.7310
3/6/2018 21:13:10	R1801804-004S	Pb (220.353 nm)	0.4859 (ppm)	0.82	0.4859 (ppm)	938.6019
3/6/2018 21:13:10	R1801804-004S	Sb (217.582 nm)	0.4096 (ppm)	0.43	0.4096 (ppm)	484.4548
3/6/2018 21:13:10	R1801804-004S	Se (196.026 nm)	0.9025 (ppm)	1.29	0.9025 (ppm)	654.4541
3/6/2018 21:13:10	R1801804-004S	Sn (189.925 nm)	4.5609 (ppm)	0.74	4.5609 (ppm)	4696.0902
3/6/2018 21:13:10	R1801804-004S	Sr (216.596 nm)	2.3144 (ppm)	0.78	2.3144 (ppm)	28487.6689
3/6/2018 21:13:10	R1801804-004S	Tl (336.122 nm)	1.6501 (ppm)	0.81	1.6501 (ppm)	277767.3675
3/6/2018 21:13:10	R1801804-004S	Tl (351.923 nm)	1.9371 (ppm)	0.98	1.9371 (ppm)	4050.3496
3/6/2018 21:13:10	R1801804-004S	V (292.401 nm)	0.5704 (ppm)	0.77	0.5704 (ppm)	17523.6533
3/6/2018 21:13:10	R1801804-004S	Y (360.074 nm)	0.97 (Ratio)	1.21	0.97 (Ratio)	711225.78
3/6/2018 21:13:10	R1801804-004S	Y_R (360.074 nm)	0.97 (Ratio)	1.20	0.97 (Ratio)	713551.81
3/6/2018 21:13:10	R1801804-004S	Zn (213.857 nm)	0.6142 (ppm)	1.45	0.6142 (ppm)	15387.5120
3/6/2018 21:16:32	R1801804-004SD	Ag (328.068 nm)	0.0483 (ppm)	2.82	0.0483 (ppm)	2800.4675
3/6/2018 21:16:32	R1801804-004SD	Al (394.401 nm)	35.4931 o (ppm)	2.48	35.4931 (ppm)	368859.0416
3/6/2018 21:16:32	R1801804-004SD	As (188.980 nm)	0.0519 (ppm)	3.69	0.0519 (ppm)	37.3478
3/6/2018 21:16:32	R1801804-004SD	B (249.772 nm)	0.9813 (ppm)	2.38	0.9813 (ppm)	23349.8377
3/6/2018 21:16:32	R1801804-004SD	Ba (230.424 nm)	2.1844 (ppm)	2.44	2.1844 (ppm)	63353.5929
3/6/2018 21:16:32	R1801804-004SD	Be (313.107 nm)	0.0478 (ppm)	2.47	0.0478 (ppm)	58886.4954
3/6/2018 21:16:32	R1801804-004SD	Ce (227.547 nm)	363.3526 o (ppm)	2.58	363.3526 (ppm)	17047.3319
3/6/2018 21:16:32	R1801804-004SD	Cd (214.439 nm)	0.0474 (ppm)	2.54	0.0474 (ppm)	946.8445
3/6/2018 21:16:32	R1801804-004SD	Co (230.786 nm)	0.4941 (ppm)	2.56	0.4941 (ppm)	4408.2897



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:16:32	R1801804-004SD	Cr (267.716 nm)	0.2449 (ppm)	2.45	0.2449 (ppm)	10077.4736
3/6/2018 21:16:32	R1801804-004SD	Cu (327.395 nm)	0.3250 (ppm)	2.75	0.3250 (ppm)	15882.9905
3/6/2018 21:16:32	R1801804-004SD	Fe (234.350 nm)	79.9436 o (ppm)	2.54	79.9436 (ppm)	772123.1415
3/6/2018 21:16:32	R1801804-004SD	K (766.491 nm)	25.4510 (ppm)	2.85	25.4510 (ppm)	62602.4463
3/6/2018 21:16:32	R1801804-004SD	Mg (279.078 nm)	78.3312 o (ppm)	2.42	78.3312 (ppm)	136056.2602
3/6/2018 21:16:32	R1801804-004SD	Mn (257.610 nm)	3.1752 o (ppm)	2.45	3.1752 (ppm)	858799.9650
3/6/2018 21:16:32	R1801804-004SD	Mo (202.032 nm)	0.4755 (ppm)	2.59	0.4755 (ppm)	3980.2458
3/6/2018 21:16:32	R1801804-004SD	Na (588.995 nm)	22.0234 (ppm)	2.70	22.0234 (ppm)	744455.1998
3/6/2018 21:16:32	R1801804-004SD	Ni (230.299 nm)	0.5014 (ppm)	2.58	0.5014 (ppm)	3052.9448
3/6/2018 21:16:32	R1801804-004SD	Pb (220.353 nm)	0.4934 (ppm)	2.31	0.4934 (ppm)	952.9391
3/6/2018 21:16:32	R1801804-004SD	Sb (217.582 nm)	0.4117 (ppm)	3.14	0.4117 (ppm)	486.9271
3/6/2018 21:16:32	R1801804-004SD	Se (196.026 nm)	0.9149 (ppm)	2.87	0.9149 (ppm)	663.5239
3/6/2018 21:16:32	R1801804-004SD	Sn (189.925 nm)	4.6450 (ppm)	2.66	4.6450 (ppm)	4782.7458
3/6/2018 21:16:32	R1801804-004SD	Sr (216.596 nm)	2.3497 (ppm)	2.55	2.3497 (ppm)	28922.3734
3/6/2018 21:16:32	R1801804-004SD	Ti (336.122 nm)	1.6363 (ppm)	2.44	1.6363 (ppm)	275434.3683
3/6/2018 21:16:32	R1801804-004SD	Tl (351.923 nm)	1.9716 (ppm)	2.84	1.9716 (ppm)	4122.1891
3/6/2018 21:16:32	R1801804-004SD	V (292.401 nm)	0.5828 (ppm)	2.46	0.5828 (ppm)	17903.8341
3/6/2018 21:16:32	R1801804-004SD	Y (360.074 nm)	0.96 (Ratio)	2.53	0.96 (Ratio)	703057.59
3/6/2018 21:16:32	R1801804-004SD	Y_R (360.074 nm)	0.96 (Ratio)	2.53	0.96 (Ratio)	705318.56
3/6/2018 21:16:32	R1801804-004SD	Zn (213.857 nm)	0.6229 (ppm)	2.55	0.6229 (ppm)	15604.1889
3/6/2018 21:19:53	R1801804-004A	Ag (328.068 nm)	0.0318 (ppm)	0.58	0.0318 (ppm)	1809.8540
3/6/2018 21:19:53	R1801804-004A	Al (394.401 nm)	31.1872 o (ppm)	0.82	31.1872 (ppm)	324125.0349
3/6/2018 21:19:53	R1801804-004A	As (188.980 nm)	0.0535 (ppm)	9.85	0.0535 (ppm)	38.5814
3/6/2018 21:19:53	R1801804-004A	B (249.772 nm)	0.9796 (ppm)	0.71	0.9796 (ppm)	23309.5939
3/6/2018 21:19:53	R1801804-004A	Ba (230.424 nm)	2.0969 (ppm)	0.87	2.0969 (ppm)	60816.6540
3/6/2018 21:19:53	R1801804-004A	Be (313.107 nm)	0.0466 (ppm)	0.71	0.0466 (ppm)	57331.8879
3/6/2018 21:19:53	R1801804-004A	Ce (227.547 nm)	367.7337 o (ppm)	0.85	367.7337 (ppm)	17252.8033
3/6/2018 21:19:53	R1801804-004A	Cd (214.439 nm)	0.0462 (ppm)	0.83	0.0462 (ppm)	923.1732
3/6/2018 21:19:53	R1801804-004A	Co (230.786 nm)	0.4783 (ppm)	0.59	0.4783 (ppm)	4266.8687
3/6/2018 21:19:53	R1801804-004A	Cr (267.716 nm)	0.2336 (ppm)	0.63	0.2336 (ppm)	9610.6399
3/6/2018 21:19:53	R1801804-004A	Cu (327.395 nm)	0.3202 (ppm)	0.71	0.3202 (ppm)	15648.8044
3/6/2018 21:19:53	R1801804-004A	Fe (234.350 nm)	75.0249 o (ppm)	0.74	75.0249 (ppm)	724618.0314
3/6/2018 21:19:53	R1801804-004A	K (766.491 nm)	24.9713 (ppm)	1.10	24.9713 (ppm)	61422.9542
3/6/2018 21:19:53	R1801804-004A	Mg (279.078 nm)	74.2946 o (ppm)	0.70	74.2946 (ppm)	129044.6631
3/6/2018 21:19:53	R1801804-004A	Mn (257.610 nm)	3.0528 o (ppm)	0.94	3.0528 (ppm)	825705.1592
3/6/2018 21:19:53	R1801804-004A	Mo (202.032 nm)	0.4663 (ppm)	0.64	0.4663 (ppm)	3903.0752
3/6/2018 21:19:53	R1801804-004A	Na (588.995 nm)	21.3618 (ppm)	1.11	21.3618 (ppm)	721851.6546
3/6/2018 21:19:53	R1801804-004A	Ni (230.299 nm)	0.4852 (ppm)	0.57	0.4852 (ppm)	2953.3354
3/6/2018 21:19:53	R1801804-004A	Pb (220.353 nm)	0.4879 (ppm)	0.58	0.4879 (ppm)	942.5370
3/6/2018 21:19:53	R1801804-004A	Sb (217.582 nm)	0.4641 (ppm)	0.51	0.4641 (ppm)	548.5663
3/6/2018 21:19:53	R1801804-004A	Se (196.026 nm)	0.9917 (ppm)	0.98	0.9917 (ppm)	719.3668
3/6/2018 21:19:53	R1801804-004A	Sn (189.925 nm)	4.7244 (ppm)	0.68	4.7244 (ppm)	4864.4992
3/6/2018 21:19:53	R1801804-004A	Sr (216.596 nm)	2.5339 (ppm)	0.55	2.5339 (ppm)	31189.6793
3/6/2018 21:19:53	R1801804-004A	Ti (336.122 nm)	1.4940 (ppm)	0.71	1.4940 (ppm)	251434.5078
3/6/2018 21:19:53	R1801804-004A	Tl (351.923 nm)	1.9094 (ppm)	0.75	1.9094 (ppm)	3992.6704
3/6/2018 21:19:53	R1801804-004A	V (292.401 nm)	0.5623 (ppm)	0.74	0.5623 (ppm)	17276.2703
3/6/2018 21:19:53	R1801804-004A	Y (360.074 nm)	0.97 (Ratio)	1.12	0.97 (Ratio)	710204.08
3/6/2018 21:19:53	R1801804-004A	Y_R (360.074 nm)	0.97 (Ratio)	1.12	0.97 (Ratio)	712408.05
3/6/2018 21:19:53	R1801804-004A	Zn (213.857 nm)	0.6149 (ppm)	0.73	0.6149 (ppm)	15403.5188
3/6/2018 21:23:15	R1801804-004L	Ag (328.068 nm)	-0.0004 u (ppm)	11.14	-0.0004 (ppm)	-131.6724
3/6/2018 21:23:15	R1801804-004L	Al (394.401 nm)	5.7685 (ppm)	1.47	5.7685 (ppm)	60045.2694

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:23:15	R1801804-004L	As (188.980 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	1.0744
3/6/2018 21:23:15	R1801804-004L	B (249.772 nm)	0.0155 (ppm)	3.73	0.0155 (ppm)	439.4646
3/6/2018 21:23:15	R1801804-004L	Ba (230.424 nm)	0.0489 (ppm)	1.84	0.0489 (ppm)	1418.7244
3/6/2018 21:23:15	R1801804-004L	Be (313.107 nm)	0.0003 (ppm)	4.41	0.0003 (ppm)	-123.6929
3/6/2018 21:23:15	R1801804-004L	Ca (227.547 nm)	74.0544 o (ppm)	1.58	74.0544 (ppm)	3479.3565
3/6/2018 21:23:15	R1801804-004L	Cd (214.439 nm)	0.0003 (ppm)	62.57	0.0003 (ppm)	19.0440
3/6/2018 21:23:15	R1801804-004L	Co (230.786 nm)	0.0052 (ppm)	8.13	0.0052 (ppm)	38.1540
3/6/2018 21:23:15	R1801804-004L	Cr (267.716 nm)	0.0097 (ppm)	1.13	0.0097 (ppm)	398.0499
3/6/2018 21:23:15	R1801804-004L	Cu (327.395 nm)	0.0174 (ppm)	1.87	0.0174 (ppm)	870.0611
3/6/2018 21:23:15	R1801804-004L	Fe (234.350 nm)	16.8045 o (ppm)	1.33	16.8045 (ppm)	162319.6075
3/6/2018 21:23:15	R1801804-004L	K (766.491 nm)	1.0665 (ppm)	2.61	1.0665 (ppm)	2641.1978
3/6/2018 21:23:15	R1801804-004L	Mg (279.078 nm)	15.6204 (ppm)	1.40	15.6204 (ppm)	27126.9004
3/6/2018 21:23:15	R1801804-004L	Mn (257.610 nm)	0.5753 (ppm)	1.35	0.5753 (ppm)	155617.8974
3/6/2018 21:23:15	R1801804-004L	Mo (202.032 nm)	0.0003 (ppm)	39.46	0.0003 (ppm)	10.0139
3/6/2018 21:23:15	R1801804-004L	Na (588.995 nm)	0.1796 (ppm)	1.08	0.1796 (ppm)	-1854.9934
3/6/2018 21:23:15	R1801804-004L	Ni (230.299 nm)	0.0107 (ppm)	9.79	0.0107 (ppm)	41.7075
3/6/2018 21:23:15	R1801804-004L	Pb (220.353 nm)	0.0040 (ppm)	12.62	0.0040 (ppm)	14.4544
3/6/2018 21:23:15	R1801804-004L	Sb (217.582 nm)	0.0009 (ppm)	93.40	0.0009 (ppm)	3.1768
3/6/2018 21:23:15	R1801804-004L	Se (196.026 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	-3.4283
3/6/2018 21:23:15	R1801804-004L	Sn (189.925 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	2.3408
3/6/2018 21:23:15	R1801804-004L	Sr (216.596 nm)	0.1082 (ppm)	1.34	0.1082 (ppm)	1328.4438
3/6/2018 21:23:15	R1801804-004L	Ti (336.122 nm)	0.2190 (ppm)	1.46	0.2190 (ppm)	36356.3423
3/6/2018 21:23:15	R1801804-004L	Tl (351.923 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	13.2159
3/6/2018 21:23:15	R1801804-004L	V (292.401 nm)	0.0205 (ppm)	0.88	0.0205 (ppm)	762.1938
3/6/2018 21:23:15	R1801804-004L	Y (360.074 nm)	0.99 (Ratio)	1.54	0.99 (Ratio)	729772.35
3/6/2018 21:23:15	R1801804-004L	Y_R (360.074 nm)	1.00 (Ratio)	1.54	1.00 (Ratio)	731800.28
3/6/2018 21:23:15	R1801804-004L	Zn (213.857 nm)	0.0359 (ppm)	1.85	0.0359 (ppm)	873.9821
3/6/2018 21:26:36	R1801804-005	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-110.8431
3/6/2018 21:26:36	R1801804-005	Al (394.401 nm)	59.1027 o (ppm)	1.80	59.1027 (ppm)	614144.1531
3/6/2018 21:26:36	R1801804-005	As (188.980 nm)	0.0287 (ppm)	5.08	0.0287 (ppm)	20.3614
3/6/2018 21:26:36	R1801804-005	B (249.772 nm)	0.0969 (ppm)	1.65	0.0969 (ppm)	2370.1813
3/6/2018 21:26:36	R1801804-005	Ba (230.424 nm)	0.2880 (ppm)	1.57	0.2880 (ppm)	8352.6672
3/6/2018 21:26:36	R1801804-005	Be (313.107 nm)	0.0031 (ppm)	0.91	0.0031 (ppm)	3303.5571
3/6/2018 21:26:36	R1801804-005	Ca (227.547 nm)	265.1831 o (ppm)	1.86	265.1831 (ppm)	12443.2164
3/6/2018 21:26:36	R1801804-005	Cd (214.439 nm)	0.0103 (ppm)	1.89	0.0103 (ppm)	217.2490
3/6/2018 21:26:36	R1801804-005	Co (230.786 nm)	0.0305 (ppm)	1.60	0.0305 (ppm)	264.3632
3/6/2018 21:26:36	R1801804-005	Cr (267.716 nm)	0.0785 (ppm)	1.51	0.0785 (ppm)	3231.8300
3/6/2018 21:26:36	R1801804-005	Cu (327.395 nm)	0.0797 (ppm)	1.74	0.0797 (ppm)	3908.8055
3/6/2018 21:26:36	R1801804-005	Fe (234.350 nm)	101.0566 o (ppm)	1.60	101.0566 (ppm)	976034.6700
3/6/2018 21:26:36	R1801804-005	K (766.491 nm)	6.8512 (ppm)	2.11	6.8512 (ppm)	16865.6649
3/6/2018 21:26:36	R1801804-005	Mg (279.078 nm)	155.8982 o (ppm)	1.70	155.8982 (ppm)	270791.0174
3/6/2018 21:26:36	R1801804-005	Mn (257.610 nm)	2.5784 o (ppm)	1.60	2.5784 (ppm)	697389.4830
3/6/2018 21:26:36	R1801804-005	Mo (202.032 nm)	0.0027 (ppm)	20.17	0.0027 (ppm)	29.8515
3/6/2018 21:26:36	R1801804-005	Na (588.995 nm)	1.0120 (ppm)	2.12	1.0120 (ppm)	26583.7440
3/6/2018 21:26:36	R1801804-005	Ni (230.299 nm)	0.0647 (ppm)	0.73	0.0647 (ppm)	372.9041
3/6/2018 21:26:36	R1801804-005	Pb (220.353 nm)	0.1317 (ppm)	1.11	0.1317 (ppm)	259.3292
3/6/2018 21:26:36	R1801804-005	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	1.6407
3/6/2018 21:26:36	R1801804-005	Se (196.026 nm)	0.0088 (ppm)	34.90	0.0088 (ppm)	4.7126
3/6/2018 21:26:36	R1801804-005	Sn (189.925 nm)	0.0121 (ppm)	30.88	0.0121 (ppm)	13.0344
3/6/2018 21:26:36	R1801804-005	Sr (216.596 nm)	0.1556 (ppm)	1.35	0.1556 (ppm)	1913.0936
3/6/2018 21:26:36	R1801804-005	Ti (336.122 nm)	0.7415 (ppm)	1.67	0.7415 (ppm)	124509.3422

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:26:36	R1801804-005	Tl (351.923 nm)	-0.0033 u (ppm)	> 100.00	-0.0033 (ppm)	11.8537
3/6/2018 21:26:36	R1801804-005	V (292.401 nm)	0.1357 (ppm)	1.70	0.1357 (ppm)	4271.8832
3/6/2018 21:26:36	R1801804-005	Y (360.074 nm)	0.98 (Ratio)	1.95	0.98 (Ratio)	716794.48
3/6/2018 21:26:36	R1801804-005	Y_R (360.074 nm)	0.98 (Ratio)	1.95	0.98 (Ratio)	718988.46
3/6/2018 21:26:36	R1801804-005	Zn (213.857 nm)	6.8747 u (ppm)	2.01	6.8747 (ppm)	172491.2174
3/6/2018 21:29:56	R1801809-001	Ag (328.068 nm)	-0.0003 u (ppm)	43.46	-0.0003 (ppm)	-125.0410
3/6/2018 21:29:56	R1801809-001	Al (394.401 nm)	0.0470 (ppm)	6.28	0.0470 (ppm)	602.9416
3/6/2018 21:29:56	R1801809-001	As (188.980 nm)	0.0042 (ppm)	49.06	0.0042 (ppm)	2.3763
3/6/2018 21:29:56	R1801809-001	B (249.772 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	73.7468
3/6/2018 21:29:56	R1801809-001	Ba (230.424 nm)	0.0013 (ppm)	9.79	0.0013 (ppm)	38.0110
3/6/2018 21:29:56	R1801809-001	Be (313.107 nm)	0.0000 (ppm)	56.50	0.0000 (ppm)	-470.8368
3/6/2018 21:29:56	R1801809-001	Ca (227.547 nm)	0.0360 (ppm)	87.44	0.0360 (ppm)	7.9195
3/6/2018 21:29:56	R1801809-001	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	15.2232
3/6/2018 21:29:56	R1801809-001	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-6.5969
3/6/2018 21:29:56	R1801809-001	Cr (267.716 nm)	0.0023 (ppm)	6.13	0.0023 (ppm)	94.6471
3/6/2018 21:29:56	R1801809-001	Cu (327.395 nm)	0.0011 (ppm)	11.80	0.0011 (ppm)	74.2814
3/6/2018 21:29:56	R1801809-001	Fe (234.350 nm)	0.0693 (ppm)	9.88	0.0693 (ppm)	688.9084
3/6/2018 21:29:56	R1801809-001	K (766.491 nm)	0.0550 (ppm)	20.47	0.0550 (ppm)	153.8692
3/6/2018 21:29:56	R1801809-001	Mg (279.078 nm)	0.1139 (ppm)	6.52	0.1139 (ppm)	191.8848
3/6/2018 21:29:56	R1801809-001	Mn (257.610 nm)	0.0012 (ppm)	13.68	0.0012 (ppm)	324.0447
3/6/2018 21:29:56	R1801809-001	Mo (202.032 nm)	0.0060 (ppm)	3.98	0.0060 (ppm)	57.6622
3/6/2018 21:29:56	R1801809-001	Na (588.995 nm)	0.0545 (ppm)	3.43	0.0545 (ppm)	-6130.4368
3/6/2018 21:29:56	R1801809-001	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-23.2273
3/6/2018 21:29:56	R1801809-001	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.8112
3/6/2018 21:29:56	R1801809-001	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	1.8855
3/6/2018 21:29:56	R1801809-001	Se (196.026 nm)	-0.0070 u (ppm)	79.34	-0.0070 (ppm)	-6.7252
3/6/2018 21:29:56	R1801809-001	Sn (189.925 nm)	0.0128 (ppm)	1.65	0.0128 (ppm)	13.7433
3/6/2018 21:29:56	R1801809-001	Sr (216.596 nm)	0.0003 (ppm)	61.60	0.0003 (ppm)	0.7958
3/6/2018 21:29:56	R1801809-001	Ti (336.122 nm)	0.0040 (ppm)	0.93	0.0040 (ppm)	100.7395
3/6/2018 21:29:56	R1801809-001	Tl (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	16.4442
3/6/2018 21:29:56	R1801809-001	V (292.401 nm)	-0.0002 u (ppm)	92.75	-0.0002 (ppm)	130.5086
3/6/2018 21:29:56	R1801809-001	Y (360.074 nm)	1.02 (Ratio)	2.01	1.02 (Ratio)	747146.46
3/6/2018 21:29:56	R1801809-001	Y_R (360.074 nm)	1.02 (Ratio)	2.01	1.02 (Ratio)	749054.74
3/6/2018 21:29:56	R1801809-001	Zn (213.857 nm)	0.0032 (ppm)	11.39	0.0032 (ppm)	53.6585
3/6/2018 21:33:17	R1801700-001 10X	Ag (328.068 nm)	0.0001 (ppm)	68.60	0.0001 (ppm)	-103.0012
3/6/2018 21:33:17	R1801700-001 10X	Al (394.401 nm)	7.7261 (ppm)	2.14	7.7261 (ppm)	80382.9148
3/6/2018 21:33:17	R1801700-001 10X	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.3706
3/6/2018 21:33:17	R1801700-001 10X	B (249.772 nm)	0.0112 (ppm)	3.42	0.0112 (ppm)	339.2460
3/6/2018 21:33:17	R1801700-001 10X	Ba (230.424 nm)	0.0893 (ppm)	2.49	0.0893 (ppm)	2591.1513
3/6/2018 21:33:17	R1801700-001 10X	Be (313.107 nm)	0.0004 (ppm)	0.79	0.0004 (ppm)	23.4827
3/6/2018 21:33:17	R1801700-001 10X	Ca (227.547 nm)	4.9754 (ppm)	0.13	4.9754 (ppm)	239.5743
3/6/2018 21:33:17	R1801700-001 10X	Cd (214.439 nm)	0.0003 (ppm)	16.58	0.0003 (ppm)	20.3207
3/6/2018 21:33:17	R1801700-001 10X	Co (230.786 nm)	0.0054 (ppm)	7.24	0.0054 (ppm)	40.3004
3/6/2018 21:33:17	R1801700-001 10X	Cr (267.716 nm)	0.0123 (ppm)	1.24	0.0123 (ppm)	503.5853
3/6/2018 21:33:17	R1801700-001 10X	Cu (327.395 nm)	0.0164 (ppm)	2.87	0.0164 (ppm)	817.8981
3/6/2018 21:33:17	R1801700-001 10X	Fe (234.350 nm)	12.4183 u (ppm)	1.99	12.4183 (ppm)	119956.9288
3/6/2018 21:33:17	R1801700-001 10X	K (766.491 nm)	0.9419 (ppm)	2.49	0.9419 (ppm)	2334.7928
3/6/2018 21:33:17	R1801700-001 10X	Mg (279.078 nm)	3.9603 (ppm)	1.87	3.9603 (ppm)	6873.2362
3/6/2018 21:33:17	R1801700-001 10X	Mn (257.610 nm)	0.1330 (ppm)	1.97	0.1330 (ppm)	35974.4772
3/6/2018 21:33:17	R1801700-001 10X	Mo (202.032 nm)	0.0005 (ppm)	45.83	0.0005 (ppm)	11.7167
3/6/2018 21:33:17	R1801700-001 10X	Na (588.995 nm)	0.0950 (ppm)	1.09	0.0950 (ppm)	-4746.8245

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:33:17	R1801700-001 10X	Ni (230.299 nm)	0.0151 (ppm)	2.43	0.0151 (ppm)	68.7388
3/6/2018 21:33:17	R1801700-001 10X	Pb (220.353 nm)	0.0188 (ppm)	1.01	0.0188 (ppm)	42.7844
3/6/2018 21:33:17	R1801700-001 10X	Sb (217.582 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	0.6691
3/6/2018 21:33:17	R1801700-001 10X	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.8281
3/6/2018 21:33:17	R1801700-001 10X	Sn (189.925 nm)	0.0013 (ppm)	> 100.00	0.0013 (ppm)	1.8764
3/6/2018 21:33:17	R1801700-001 10X	Sr (216.596 nm)	0.0487 (ppm)	2.12	0.0487 (ppm)	596.7874
3/6/2018 21:33:17	R1801700-001 10X	Ti (336.122 nm)	0.0645 (ppm)	1.44	0.0645 (ppm)	10304.6882
3/6/2018 21:33:17	R1801700-001 10X	Tl (351.923 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	15.7266
3/6/2018 21:33:17	R1801700-001 10X	V (292.401 nm)	0.0158 (ppm)	3.22	0.0158 (ppm)	618.7107
3/6/2018 21:33:17	R1801700-001 10X	Y (360.074 nm)	1.02 (Ratio)	2.25	1.02 (Ratio)	746921.04
3/6/2018 21:33:17	R1801700-001 10X	Y_R (360.074 nm)	1.02 (Ratio)	2.25	1.02 (Ratio)	748818.10
3/6/2018 21:33:17	R1801700-001 10X	Zn (213.857 nm)	0.0854 (ppm)	2.04	0.0854 (ppm)	2116.3233
3/6/2018 21:36:38	R1801700-002 10X	Ag (328.068 nm)	-0.0002 u (ppm)	41.40	-0.0002 (ppm)	-120.5764
3/6/2018 21:36:38	R1801700-002 10X	Al (394.401 nm)	5.8934 (ppm)	1.88	5.8934 (ppm)	61342.6500
3/6/2018 21:36:38	R1801700-002 10X	As (188.980 nm)	0.0051 (ppm)	37.68	0.0051 (ppm)	2.9876
3/6/2018 21:36:38	R1801700-002 10X	B (249.772 nm)	0.0104 (ppm)	3.42	0.0104 (ppm)	319.5311
3/6/2018 21:36:38	R1801700-002 10X	Ba (230.424 nm)	0.0722 (ppm)	1.29	0.0722 (ppm)	2095.9061
3/6/2018 21:36:38	R1801700-002 10X	Be (313.107 nm)	0.0003 (ppm)	4.10	0.0003 (ppm)	-94.4038
3/6/2018 21:36:38	R1801700-002 10X	Ca (227.547 nm)	20.5766 (ppm)	2.38	20.5766 (ppm)	971.2644
3/6/2018 21:36:38	R1801700-002 10X	Cd (214.439 nm)	0.0002 (ppm)	60.06	0.0002 (ppm)	17.8082
3/6/2018 21:36:38	R1801700-002 10X	Co (230.786 nm)	0.0045 (ppm)	10.47	0.0045 (ppm)	31.6959
3/6/2018 21:36:38	R1801700-002 10X	Cr (267.716 nm)	0.0089 (ppm)	1.82	0.0089 (ppm)	366.6426
3/6/2018 21:36:38	R1801700-002 10X	Cu (327.395 nm)	0.0168 (ppm)	1.86	0.0168 (ppm)	836.7536
3/6/2018 21:36:38	R1801700-002 10X	Fe (234.350 nm)	12.0383 u (ppm)	1.81	12.0383 (ppm)	116286.4688
3/6/2018 21:36:38	R1801700-002 10X	K (766.491 nm)	0.8939 (ppm)	3.26	0.8939 (ppm)	2216.7168
3/6/2018 21:36:38	R1801700-002 10X	Mg (279.078 nm)	6.4150 (ppm)	1.75	6.4150 (ppm)	11137.0229
3/6/2018 21:36:38	R1801700-002 10X	Mn (257.610 nm)	0.4561 (ppm)	1.77	0.4561 (ppm)	123356.6656
3/6/2018 21:36:38	R1801700-002 10X	Mo (202.032 nm)	0.0009 (ppm)	18.70	0.0009 (ppm)	14.7899
3/6/2018 21:36:38	R1801700-002 10X	Na (588.995 nm)	0.0887 (ppm)	0.77	0.0887 (ppm)	-4959.3630
3/6/2018 21:36:38	R1801700-002 10X	Ni (230.299 nm)	0.0129 (ppm)	5.19	0.0129 (ppm)	55.1348
3/6/2018 21:36:38	R1801700-002 10X	Pb (220.353 nm)	0.0120 (ppm)	14.75	0.0120 (ppm)	29.8813
3/6/2018 21:36:38	R1801700-002 10X	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	2.1944
3/6/2018 21:36:38	R1801700-002 10X	Se (196.026 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.9102
3/6/2018 21:36:38	R1801700-002 10X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.9146
3/6/2018 21:36:38	R1801700-002 10X	Sr (216.596 nm)	0.0576 (ppm)	1.49	0.0576 (ppm)	706.7288
3/6/2018 21:36:38	R1801700-002 10X	Ti (336.122 nm)	0.0455 (ppm)	1.56	0.0455 (ppm)	7106.6483
3/6/2018 21:36:38	R1801700-002 10X	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	16.9084
3/6/2018 21:36:38	R1801700-002 10X	V (292.401 nm)	0.0134 (ppm)	1.99	0.0134 (ppm)	543.7888
3/6/2018 21:36:38	R1801700-002 10X	Y (360.074 nm)	1.01 (Ratio)	2.10	1.01 (Ratio)	737959.77
3/6/2018 21:36:38	R1801700-002 10X	Y_R (360.074 nm)	1.01 (Ratio)	2.10	1.01 (Ratio)	739838.49
3/6/2018 21:36:38	R1801700-002 10X	Zn (213.857 nm)	0.0650 (ppm)	2.60	0.0650 (ppm)	1604.2095
3/6/2018 21:39:58	R1801700-003 10X	Ag (328.068 nm)	-0.0003 u (ppm)	45.71	-0.0003 (ppm)	-126.1397
3/6/2018 21:39:58	R1801700-003 10X	Al (394.401 nm)	3.9867 (ppm)	0.82	3.9867 (ppm)	41533.1790
3/6/2018 21:39:58	R1801700-003 10X	As (188.980 nm)	0.0021 (ppm)	25.29	0.0021 (ppm)	0.7903
3/6/2018 21:39:58	R1801700-003 10X	B (249.772 nm)	0.0090 (ppm)	2.25	0.0090 (ppm)	286.8653
3/6/2018 21:39:58	R1801700-003 10X	Ba (230.424 nm)	0.0396 (ppm)	0.96	0.0396 (ppm)	1149.4709
3/6/2018 21:39:58	R1801700-003 10X	Be (313.107 nm)	0.0002 (ppm)	1.20	0.0002 (ppm)	-208.1150
3/6/2018 21:39:58	R1801700-003 10X	Ca (227.547 nm)	35.7048 (ppm)	0.75	35.7048 (ppm)	1680.7734
3/6/2018 21:39:58	R1801700-003 10X	Cd (214.439 nm)	0.0001 (ppm)	28.54	0.0001 (ppm)	16.1378
3/6/2018 21:39:58	R1801700-003 10X	Co (230.786 nm)	0.0042 (ppm)	5.27	0.0042 (ppm)	28.9016
3/6/2018 21:39:58	R1801700-003 10X	Cr (267.716 nm)	0.0071 (ppm)	2.66	0.0071 (ppm)	292.5941

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:39:58	R1801700-003 10X	Cu (327.395 nm)	0.0118 (ppm)	3.13	0.0118 (ppm)	596.4531
3/6/2018 21:39:58	R1801700-003 10X	Fe (234.350 nm)	8.1577 (ppm)	0.59	8.1577 (ppm)	78807.9815
3/6/2018 21:39:58	R1801700-003 10X	K (766.491 nm)	0.8741 (ppm)	0.97	0.8741 (ppm)	2167.9304
3/6/2018 21:39:58	R1801700-003 10X	Mg (279.078 nm)	10.1659 (ppm)	0.66	10.1659 (ppm)	17652.4106
3/6/2018 21:39:58	R1801700-003 10X	Mn (257.610 nm)	0.2779 (ppm)	0.66	0.2779 (ppm)	75178.7998
3/6/2018 21:39:58	R1801700-003 10X	Mo (202.032 nm)	0.0006 (ppm)	49.23	0.0006 (ppm)	12.0063
3/6/2018 21:39:58	R1801700-003 10X	Na (588.995 nm)	0.1070 (ppm)	0.28	0.1070 (ppm)	-4334.9158
3/6/2018 21:39:58	R1801700-003 10X	Ni (230.299 nm)	0.0100 (ppm)	2.78	0.0100 (ppm)	37.3173
3/6/2018 21:39:58	R1801700-003 10X	Pb (220.353 nm)	0.0085 (ppm)	24.95	0.0085 (ppm)	23.1296
3/6/2018 21:39:58	R1801700-003 10X	Sb (217.582 nm)	-0.0009 u (ppm)	73.18	-0.0009 (ppm)	1.0135
3/6/2018 21:39:58	R1801700-003 10X	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-2.4292
3/6/2018 21:39:58	R1801700-003 10X	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3069
3/6/2018 21:39:58	R1801700-003 10X	Sr (216.596 nm)	0.0798 (ppm)	0.04	0.0798 (ppm)	979.3743
3/6/2018 21:39:58	R1801700-003 10X	Ti (336.122 nm)	0.0714 (ppm)	0.46	0.0714 (ppm)	11473.8797
3/6/2018 21:39:58	R1801700-003 10X	Tl (351.923 nm)	-0.0032 u (ppm)	76.20	-0.0032 (ppm)	12.0841
3/6/2018 21:39:58	R1801700-003 10X	V (292.401 nm)	0.0102 (ppm)	2.29	0.0102 (ppm)	447.3367
3/6/2018 21:39:58	R1801700-003 10X	Y (360.074 nm)	1.01 (Ratio)	1.15	1.01 (Ratio)	741114.67
3/6/2018 21:39:58	R1801700-003 10X	Y_R (360.074 nm)	1.01 (Ratio)	1.15	1.01 (Ratio)	742974.79
3/6/2018 21:39:58	R1801700-003 10X	Zn (213.857 nm)	0.0395 (ppm)	0.87	0.0395 (ppm)	964.8487
3/6/2018 21:43:19	R1801700-004 10X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-113.2958
3/6/2018 21:43:19	R1801700-004 10X	Al (394.401 nm)	6.7242 (ppm)	1.75	6.7242 (ppm)	69974.3581
3/6/2018 21:43:19	R1801700-004 10X	As (188.980 nm)	0.0034 (ppm)	87.71	0.0034 (ppm)	1.7771
3/6/2018 21:43:19	R1801700-004 10X	B (249.772 nm)	0.0136 (ppm)	0.30	0.0136 (ppm)	395.7498
3/6/2018 21:43:19	R1801700-004 10X	Ba (230.424 nm)	0.0572 (ppm)	1.97	0.0572 (ppm)	1660.0692
3/6/2018 21:43:19	R1801700-004 10X	Be (313.107 nm)	0.0004 (ppm)	1.54	0.0004 (ppm)	-19.7795
3/6/2018 21:43:19	R1801700-004 10X	Ca (227.547 nm)	50.7899 (ppm)	1.77	50.7899 (ppm)	2388.2579
3/6/2018 21:43:19	R1801700-004 10X	Cd (214.439 nm)	0.0002 (ppm)	38.58	0.0002 (ppm)	18.2709
3/6/2018 21:43:19	R1801700-004 10X	Co (230.786 nm)	0.0071 (ppm)	5.99	0.0071 (ppm)	55.3446
3/6/2018 21:43:19	R1801700-004 10X	Cr (267.716 nm)	0.0113 (ppm)	1.61	0.0113 (ppm)	465.2627
3/6/2018 21:43:19	R1801700-004 10X	Cu (327.395 nm)	0.0180 (ppm)	1.06	0.0180 (ppm)	895.2310
3/6/2018 21:43:19	R1801700-004 10X	Fe (234.350 nm)	14.7326 u (ppm)	1.61	14.7326 (ppm)	142308.4280
3/6/2018 21:43:19	R1801700-004 10X	K (766.491 nm)	1.2597 (ppm)	2.36	1.2597 (ppm)	3116.2396
3/6/2018 21:43:19	R1801700-004 10X	Mg (279.078 nm)	15.2123 (ppm)	1.69	15.2123 (ppm)	26418.0790
3/6/2018 21:43:19	R1801700-004 10X	Mn (257.610 nm)	0.4348 (ppm)	1.65	0.4348 (ppm)	117608.9346
3/6/2018 21:43:19	R1801700-004 10X	Mo (202.032 nm)	0.0009 (ppm)	52.30	0.0009 (ppm)	15.0009
3/6/2018 21:43:19	R1801700-004 10X	Na (588.995 nm)	0.1176 (ppm)	0.34	0.1176 (ppm)	-3974.4200
3/6/2018 21:43:19	R1801700-004 10X	Ni (230.299 nm)	0.0178 (ppm)	6.14	0.0178 (ppm)	85.1457
3/6/2018 21:43:19	R1801700-004 10X	Pb (220.353 nm)	0.0075 (ppm)	5.45	0.0075 (ppm)	21.2343
3/6/2018 21:43:19	R1801700-004 10X	Sb (217.582 nm)	0.0013 (ppm)	89.34	0.0013 (ppm)	3.6888
3/6/2018 21:43:19	R1801700-004 10X	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.0953
3/6/2018 21:43:19	R1801700-004 10X	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.0840
3/6/2018 21:43:19	R1801700-004 10X	Sr (216.596 nm)	0.0986 (ppm)	1.81	0.0986 (ppm)	1211.4042
3/6/2018 21:43:19	R1801700-004 10X	Ti (336.122 nm)	0.0877 (ppm)	1.31	0.0877 (ppm)	14209.4187
3/6/2018 21:43:19	R1801700-004 10X	Tl (351.923 nm)	-0.0034 u (ppm)	> 100.00	-0.0034 (ppm)	11.6374
3/6/2018 21:43:19	R1801700-004 10X	V (292.401 nm)	0.0158 (ppm)	1.33	0.0158 (ppm)	618.2347
3/6/2018 21:43:19	R1801700-004 10X	Y (360.074 nm)	0.99 (Ratio)	1.91	0.99 (Ratio)	729742.19
3/6/2018 21:43:19	R1801700-004 10X	Y_R (360.074 nm)	1.00 (Ratio)	1.91	1.00 (Ratio)	731572.07
3/6/2018 21:43:19	R1801700-004 10X	Zn (213.857 nm)	0.0587 (ppm)	2.01	0.0587 (ppm)	1446.6904
3/6/2018 21:46:40	Continuing Calibration Verification	Ag (328.068 nm)	0.4815 (ppm)	1.10	0.4815 (ppm)	28914.6762
3/6/2018 21:46:40	Continuing Calibration Verification	Al (394.401 nm)	9.7258 (ppm)	1.38	9.7258 (ppm)	101158.4382
3/6/2018 21:46:40	Continuing Calibration Verification	As (188.980 nm)	0.9563 (ppm)	1.61	0.9563 (ppm)	701.7041

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:46:40	Continuing Calibration Verification	B (249.772 nm)	2.4356 (ppm)	1.28	2.4356 (ppm)	57846.1639
3/6/2018 21:46:40	Continuing Calibration Verification	Ba (230.424 nm)	10.3108 (ppm)	1.29	10.3108 (ppm)	299034.2375
3/6/2018 21:46:40	Continuing Calibration Verification	Be (313.107 nm)	0.2536 (ppm)	1.48	0.2536 (ppm)	314417.5434
3/6/2018 21:46:40	Continuing Calibration Verification	Ca (227.547 nm)	24.2222 (ppm)	1.53	24.2222 (ppm)	1142.2433
3/6/2018 21:46:40	Continuing Calibration Verification	Cd (214.439 nm)	0.4999 (ppm)	1.36	0.4999 (ppm)	9848.3454
3/6/2018 21:46:40	Continuing Calibration Verification	Co (230.786 nm)	2.5809 (ppm)	1.34	2.5809 (ppm)	23062.3519
3/6/2018 21:46:40	Continuing Calibration Verification	Cr (267.716 nm)	0.5245 (ppm)	1.22	0.5245 (ppm)	21582.6441
3/6/2018 21:46:40	Continuing Calibration Verification	Cu (327.395 nm)	1.2284 (ppm)	1.66	1.2284 (ppm)	59985.1581
3/6/2018 21:46:40	Continuing Calibration Verification	Fe (234.350 nm)	5.0497 (ppm)	1.32	5.0497 (ppm)	48789.9445
3/6/2018 21:46:40	Continuing Calibration Verification	K (766.491 nm)	23.9031 (ppm)	1.68	23.9031 (ppm)	58796.1590
3/6/2018 21:46:40	Continuing Calibration Verification	Mg (279.078 nm)	24.9693 (ppm)	1.42	24.9693 (ppm)	43366.0136
3/6/2018 21:46:40	Continuing Calibration Verification	Mn (257.610 nm)	0.7698 (ppm)	1.31	0.7698 (ppm)	208216.5268
3/6/2018 21:46:40	Continuing Calibration Verification	Mo (202.032 nm)	2.3712 (ppm)	1.28	2.3712 (ppm)	19818.6987
3/6/2018 21:46:40	Continuing Calibration Verification	Na (588.995 nm)	25.0656 (ppm)	1.64	25.0656 (ppm)	848394.5491
3/6/2018 21:46:40	Continuing Calibration Verification	Ni (230.299 nm)	2.0532 (ppm)	1.49	2.0532 (ppm)	12575.1540
3/6/2018 21:46:40	Continuing Calibration Verification	Pb (220.353 nm)	0.5023 (ppm)	1.17	0.5023 (ppm)	970.0107
3/6/2018 21:46:40	Continuing Calibration Verification	Sb (217.582 nm)	4.9155 (ppm)	1.67	4.9155 (ppm)	5789.8576
3/6/2018 21:46:40	Continuing Calibration Verification	Se (196.026 nm)	0.4810 (ppm)	2.21	0.4810 (ppm)	348.0142
3/6/2018 21:46:40	Continuing Calibration Verification	Sn (189.925 nm)	5.0389 (ppm)	1.73	5.0389 (ppm)	5188.2442
3/6/2018 21:46:40	Continuing Calibration Verification	Sr (216.596 nm)	2.5540 (ppm)	1.24	2.5540 (ppm)	31437.8721
3/6/2018 21:46:40	Continuing Calibration Verification	Ti (336.122 nm)	2.5119 (ppm)	1.32	2.5119 (ppm)	423139.8294
3/6/2018 21:46:40	Continuing Calibration Verification	Tl (351.923 nm)	1.0026 (ppm)	1.22	1.0026 (ppm)	2105.3703
3/6/2018 21:46:40	Continuing Calibration Verification	V (292.401 nm)	2.5435 (ppm)	1.36	2.5435 (ppm)	77674.1538
3/6/2018 21:46:40	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	1.66	0.98 (Ratio)	717775.77
3/6/2018 21:46:40	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	1.65	0.98 (Ratio)	719573.53
3/6/2018 21:46:40	Continuing Calibration Verification	Zn (213.857 nm)	1.1589 Q (ppm)	1.35	1.1589 (ppm)	29055.3860 Q
3/6/2018 21:50:00	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	77.21	-0.0001 (ppm)	-113.0751
3/6/2018 21:50:00	Continuing Calibration Blank	Al (394.401 nm)	0.0009 (ppm)	82.93	0.0009 (ppm)	123.9154
3/6/2018 21:50:00	Continuing Calibration Blank	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.4732
3/6/2018 21:50:00	Continuing Calibration Blank	B (249.772 nm)	0.0018 (ppm)	25.17	0.0018 (ppm)	115.6597
3/6/2018 21:50:00	Continuing Calibration Blank	Ba (230.424 nm)	0.0015 (ppm)	33.91	0.0015 (ppm)	44.0095
3/6/2018 21:50:00	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	14.63	0.0001 (ppm)	-435.8968
3/6/2018 21:50:00	Continuing Calibration Blank	Ca (227.547 nm)	-0.0287 u (ppm)	> 100.00	-0.0287 (ppm)	4.8866
3/6/2018 21:50:00	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	98.00	0.0001 (ppm)	14.8896
3/6/2018 21:50:00	Continuing Calibration Blank	Co (230.786 nm)	0.0006 (ppm)	42.06	0.0006 (ppm)	-3.3369
3/6/2018 21:50:00	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.9732
3/6/2018 21:50:00	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	25.0039
3/6/2018 21:50:00	Continuing Calibration Blank	Fe (234.350 nm)	0.0012 (ppm)	17.71	0.0012 (ppm)	31.1508
3/6/2018 21:50:00	Continuing Calibration Blank	K (766.491 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	26.0592
3/6/2018 21:50:00	Continuing Calibration Blank	Mg (279.078 nm)	0.0021 (ppm)	> 100.00	0.0021 (ppm)	-2.1735
3/6/2018 21:50:00	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	28.60	0.0001 (ppm)	29.6377
3/6/2018 21:50:00	Continuing Calibration Blank	Mo (202.032 nm)	0.0009 (ppm)	28.58	0.0009 (ppm)	14.4196
3/6/2018 21:50:00	Continuing Calibration Blank	Na (588.995 nm)	0.0045 (ppm)	23.62	0.0045 (ppm)	-7838.4701
3/6/2018 21:50:00	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-22.7258
3/6/2018 21:50:00	Continuing Calibration Blank	Pb (220.353 nm)	-0.0023 u (ppm)	51.90	-0.0023 (ppm)	2.2757
3/6/2018 21:50:00	Continuing Calibration Blank	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	3.2735
3/6/2018 21:50:00	Continuing Calibration Blank	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-2.5419
3/6/2018 21:50:00	Continuing Calibration Blank	Sn (189.925 nm)	0.0018 (ppm)	50.55	0.0018 (ppm)	2.4287
3/6/2018 21:50:00	Continuing Calibration Blank	Sr (216.596 nm)	0.0004 (ppm)	69.00	0.0004 (ppm)	1.7581
3/6/2018 21:50:00	Continuing Calibration Blank	Ti (336.122 nm)	0.0009 (ppm)	11.93	0.0009 (ppm)	-430.9185
3/6/2018 21:50:00	Continuing Calibration Blank	Tl (351.923 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	24.8117

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:50:00	Continuing Calibration Blenk	V (292.401 nm)	0.0003 (ppm)	36.50	0.0003 (ppm)	145.9966
3/6/2018 21:50:00	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	1.08	1.02 (Ratio)	748519.99
3/6/2018 21:50:00	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	1.08	1.02 (Ratio)	750157.57
3/6/2018 21:50:00	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-27.4204
3/6/2018 21:53:21	R1801700-005 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-107.4694
3/6/2018 21:53:21	R1801700-005 10X	Al (394.401 nm)	6.9630 (ppm)	5.23	6.9630 (ppm)	72455.0594
3/6/2018 21:53:21	R1801700-005 10X	As (188.980 nm)	0.0058 (ppm)	> 100.00	0.0058 (ppm)	3.5414
3/6/2018 21:53:21	R1801700-005 10X	B (249.772 nm)	0.0170 (ppm)	6.72	0.0170 (ppm)	474.9741
3/6/2018 21:53:21	R1801700-005 10X	Ba (230.424 nm)	0.0927 (ppm)	5.17	0.0927 (ppm)	2688.5213
3/6/2018 21:53:21	R1801700-005 10X	Be (313.107 nm)	0.0004 (ppm)	3.59	0.0004 (ppm)	4.7349
3/6/2018 21:53:21	R1801700-005 10X	Ca (227.547 nm)	61.5238 o (ppm)	5.48	61.5238 (ppm)	2891.6740
3/6/2018 21:53:21	R1801700-005 10X	Cd (214.439 nm)	0.0007 (ppm)	2.11	0.0007 (ppm)	28.2874
3/6/2018 21:53:21	R1801700-005 10X	Co (230.786 nm)	0.0066 (ppm)	7.79	0.0066 (ppm)	51.0807
3/6/2018 21:53:21	R1801700-005 10X	Cr (267.716 nm)	0.0136 (ppm)	5.65	0.0136 (ppm)	557.4316
3/6/2018 21:53:21	R1801700-005 10X	Cu (327.395 nm)	0.0325 (ppm)	5.29	0.0325 (ppm)	1605.6709
3/6/2018 21:53:21	R1801700-005 10X	Fe (234.350 nm)	14.0770 o (ppm)	5.21	14.0770 (ppm)	135977.1503
3/6/2018 21:53:21	R1801700-005 10X	K (766.491 nm)	1.2710 (ppm)	6.47	1.2710 (ppm)	3144.0339
3/6/2018 21:53:21	R1801700-005 10X	Mg (279.078 nm)	15.0819 (ppm)	5.32	15.0819 (ppm)	26191.5393
3/6/2018 21:53:21	R1801700-005 10X	Mn (257.610 nm)	0.4344 (ppm)	5.24	0.4344 (ppm)	117488.0070
3/6/2018 21:53:21	R1801700-005 10X	Mo (202.032 nm)	0.0010 (ppm)	52.37	0.0010 (ppm)	15.6046
3/6/2018 21:53:21	R1801700-005 10X	Na (588.995 nm)	0.1406 (ppm)	4.63	0.1406 (ppm)	-3186.9818
3/6/2018 21:53:21	R1801700-005 10X	Ni (230.299 nm)	0.0194 (ppm)	4.68	0.0194 (ppm)	95.0636
3/6/2018 21:53:21	R1801700-005 10X	Pb (220.353 nm)	0.0424 (ppm)	4.95	0.0424 (ppm)	88.1769
3/6/2018 21:53:21	R1801700-005 10X	Sb (217.582 nm)	0.0018 (ppm)	59.99	0.0018 (ppm)	4.1956
3/6/2018 21:53:21	R1801700-005 10X	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-2.5099
3/6/2018 21:53:21	R1801700-005 10X	Sn (189.925 nm)	0.0022 (ppm)	86.55	0.0022 (ppm)	2.8037
3/6/2018 21:53:21	R1801700-005 10X	Sr (216.596 nm)	0.1207 (ppm)	4.86	0.1207 (ppm)	1483.4467
3/6/2018 21:53:21	R1801700-005 10X	Ti (336.122 nm)	0.0971 (ppm)	5.28	0.0971 (ppm)	15805.3725
3/6/2018 21:53:21	R1801700-005 10X	Tl (351.923 nm)	-0.0058 u (ppm)	98.35	-0.0058 (ppm)	6.7257
3/6/2018 21:53:21	R1801700-005 10X	V (292.401 nm)	0.0169 (ppm)	6.10	0.0169 (ppm)	650.4704
3/6/2018 21:53:21	R1801700-005 10X	Y (360.074 nm)	0.99 (Ratio)	1.90	0.99 (Ratio)	729715.04
3/6/2018 21:53:21	R1801700-005 10X	Y_R (360.074 nm)	1.00 (Ratio)	1.90	1.00 (Ratio)	731359.74
3/6/2018 21:53:21	R1801700-005 10X	Zn (213.857 nm)	0.1164 (ppm)	5.12	0.1164 (ppm)	2894.8382
3/6/2018 21:56:42	R1801700-006 10X	Ag (328.068 nm)	-0.0001 u (ppm)	23.83	-0.0001 (ppm)	-116.3003
3/6/2018 21:56:42	R1801700-006 10X	Al (394.401 nm)	8.2742 (ppm)	1.74	8.2742 (ppm)	86076.8910
3/6/2018 21:56:42	R1801700-006 10X	As (188.980 nm)	0.0027 (ppm)	66.57	0.0027 (ppm)	1.2648
3/6/2018 21:56:42	R1801700-006 10X	B (249.772 nm)	0.0126 (ppm)	0.50	0.0126 (ppm)	372.6559
3/6/2018 21:56:42	R1801700-006 10X	Ba (230.424 nm)	0.1231 (ppm)	1.67	0.1231 (ppm)	3572.3052
3/6/2018 21:56:42	R1801700-006 10X	Be (313.107 nm)	0.0005 (ppm)	2.04	0.0005 (ppm)	83.8468
3/6/2018 21:56:42	R1801700-006 10X	Ca (227.547 nm)	6.0885 (ppm)	1.69	6.0885 (ppm)	291.7791
3/6/2018 21:56:42	R1801700-006 10X	Cd (214.439 nm)	0.0004 (ppm)	42.77	0.0004 (ppm)	21.0179
3/6/2018 21:56:42	R1801700-006 10X	Co (230.786 nm)	0.0069 (ppm)	10.95	0.0069 (ppm)	53.4600
3/6/2018 21:56:42	R1801700-006 10X	Cr (267.716 nm)	0.0127 (ppm)	1.19	0.0127 (ppm)	523.0838
3/6/2018 21:56:42	R1801700-006 10X	Cu (327.395 nm)	0.0139 (ppm)	3.30	0.0139 (ppm)	696.5899
3/6/2018 21:56:42	R1801700-006 10X	Fe (234.350 nm)	15.7893 o (ppm)	1.47	15.7893 (ppm)	152514.2129
3/6/2018 21:56:42	R1801700-006 10X	K (766.491 nm)	0.9408 (ppm)	2.04	0.9408 (ppm)	2332.0361
3/6/2018 21:56:42	R1801700-006 10X	Mg (279.078 nm)	3.8742 (ppm)	1.66	3.8742 (ppm)	6723.6853
3/6/2018 21:56:42	R1801700-006 10X	Mn (257.610 nm)	0.6274 (ppm)	1.51	0.6274 (ppm)	169695.3000
3/6/2018 21:56:42	R1801700-006 10X	Mo (202.032 nm)	0.0011 (ppm)	26.24	0.0011 (ppm)	16.1111
3/6/2018 21:56:42	R1801700-006 10X	Na (588.995 nm)	0.0802 (ppm)	0.88	0.0802 (ppm)	-5252.2368
3/6/2018 21:56:42	R1801700-006 10X	Ni (230.299 nm)	0.0167 (ppm)	2.71	0.0167 (ppm)	78.4106

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 21:56:42	R1801700-006 10X	Pb (220.353 nm)	0.0189 (ppm)	8.72	0.0189 (ppm)	43.0720
3/6/2018 21:56:42	R1801700-006 10X	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	2.3339
3/6/2018 21:56:42	R1801700-006 10X	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.8089
3/6/2018 21:56:42	R1801700-006 10X	Sn (189.925 nm)	0.0020 (ppm)	> 100.00	0.0020 (ppm)	2.6205
3/6/2018 21:56:42	R1801700-006 10X	Sr (216.596 nm)	0.0350 (ppm)	1.78	0.0350 (ppm)	428.3546
3/6/2018 21:56:42	R1801700-006 10X	Ti (336.122 nm)	0.0484 (ppm)	1.86	0.0484 (ppm)	7581.9299
3/6/2018 21:56:42	R1801700-006 10X	Tl (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	22.5534
3/6/2018 21:56:42	R1801700-006 10X	V (292.401 nm)	0.0178 (ppm)	2.07	0.0178 (ppm)	680.0403
3/6/2018 21:56:42	R1801700-006 10X	Y (360.074 nm)	1.02 (Ratio)	1.74	1.02 (Ratio)	746569.75
3/6/2018 21:56:42	R1801700-006 10X	Y_R (360.074 nm)	1.02 (Ratio)	1.74	1.02 (Ratio)	748146.48
3/6/2018 21:56:42	R1801700-006 10X	Zn (213.857 nm)	0.0798 (ppm)	1.77	0.0798 (ppm)	1975.1740
3/6/2018 22:00:03	R1801700-007 10X	Ag (328.068 nm)	-0.0001 u (ppm)	69.73	-0.0001 (ppm)	-115.0544
3/6/2018 22:00:03	R1801700-007 10X	Al (394.401 nm)	9.5767 (ppm)	1.06	9.5767 (ppm)	99608.7689
3/6/2018 22:00:03	R1801700-007 10X	As (188.980 nm)	0.0054 (ppm)	35.37	0.0054 (ppm)	3.2166
3/6/2018 22:00:03	R1801700-007 10X	B (249.772 nm)	0.0171 (ppm)	2.47	0.0171 (ppm)	478.4130
3/6/2018 22:00:03	R1801700-007 10X	Ba (230.424 nm)	0.0840 (ppm)	0.87	0.0840 (ppm)	2436.6300
3/6/2018 22:00:03	R1801700-007 10X	Be (313.107 nm)	0.0005 (ppm)	1.76	0.0005 (ppm)	132.1306
3/6/2018 22:00:03	R1801700-007 10X	Ca (227.547 nm)	48.6391 (ppm)	1.13	48.6391 (ppm)	2287.3855
3/6/2018 22:00:03	R1801700-007 10X	Cd (214.439 nm)	0.0002 (ppm)	18.13	0.0002 (ppm)	17.1876
3/6/2018 22:00:03	R1801700-007 10X	Co (230.786 nm)	0.0088 (ppm)	1.23	0.0088 (ppm)	69.9861
3/6/2018 22:00:03	R1801700-007 10X	Cr (267.716 nm)	0.0166 (ppm)	1.56	0.0166 (ppm)	682.1473
3/6/2018 22:00:03	R1801700-007 10X	Cu (327.395 nm)	0.0181 (ppm)	1.07	0.0181 (ppm)	900.5655
3/6/2018 22:00:03	R1801700-007 10X	F (234.350 nm)	19.0699 u (ppm)	0.88	19.0699 (ppm)	184198.6021
3/6/2018 22:00:03	R1801700-007 10X	K (766.491 nm)	1.8926 (ppm)	1.25	1.8926 (ppm)	4672.6160
3/6/2018 22:00:03	R1801700-007 10X	Mg (279.078 nm)	14.5095 (ppm)	0.97	14.5095 (ppm)	25197.2977
3/6/2018 22:00:03	R1801700-007 10X	Mn (257.610 nm)	0.4735 (ppm)	0.86	0.4735 (ppm)	128078.1692
3/6/2018 22:00:03	R1801700-007 10X	Mo (202.032 nm)	0.0003 (ppm)	82.02	0.0003 (ppm)	9.7060
3/6/2018 22:00:03	R1801700-007 10X	Na (588.995 nm)	0.1396 (ppm)	0.54	0.1396 (ppm)	-3221.6144
3/6/2018 22:00:03	R1801700-007 10X	Ni (230.299 nm)	0.0190 (ppm)	4.44	0.0190 (ppm)	92.8713
3/6/2018 22:00:03	R1801700-007 10X	Pb (220.353 nm)	0.0067 (ppm)	20.47	0.0067 (ppm)	19.6273
3/6/2018 22:00:03	R1801700-007 10X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	2.7046
3/6/2018 22:00:03	R1801700-007 10X	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-2.3874
3/6/2018 22:00:03	R1801700-007 10X	Sn (189.925 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-0.5243
3/6/2018 22:00:03	R1801700-007 10X	Sr (216.596 nm)	0.0895 (ppm)	1.35	0.0895 (ppm)	1098.7569
3/6/2018 22:00:03	R1801700-007 10X	Ti (336.122 nm)	0.2094 (ppm)	0.91	0.2094 (ppm)	34747.5436
3/6/2018 22:00:03	R1801700-007 10X	Tl (351.923 nm)	-0.0042 u (ppm)	76.20	-0.0042 (ppm)	10.0541
3/6/2018 22:00:03	R1801700-007 10X	V (292.401 nm)	0.0216 (ppm)	0.97	0.0216 (ppm)	793.2859
3/6/2018 22:00:03	R1801700-007 10X	Y (360.074 nm)	1.00 (Ratio)	1.25	1.00 (Ratio)	735565.89
3/6/2018 22:00:03	R1801700-007 10X	Y_R (360.074 nm)	1.01 (Ratio)	1.25	1.01 (Ratio)	737222.96
3/6/2018 22:00:03	R1801700-007 10X	Zn (213.857 nm)	0.0463 (ppm)	1.39	0.0463 (ppm)	1134.6383
3/6/2018 22:03:24	Continuing Calibration Verification	Ag (328.068 nm)	0.4778 (ppm)	0.58	0.4778 (ppm)	28693.8498
3/6/2018 22:03:24	Continuing Calibration Verification	Al (394.401 nm)	9.6346 (ppm)	0.71	9.6346 (ppm)	100210.4411
3/6/2018 22:03:24	Continuing Calibration Verification	As (188.980 nm)	0.9547 (ppm)	0.79	0.9547 (ppm)	700.4741
3/6/2018 22:03:24	Continuing Calibration Verification	B (249.772 nm)	2.4198 (ppm)	0.61	2.4198 (ppm)	57472.0742
3/6/2018 22:03:24	Continuing Calibration Verification	Ba (230.424 nm)	10.2055 (ppm)	0.68	10.2055 (ppm)	295979.0156
3/6/2018 22:03:24	Continuing Calibration Verification	Be (313.107 nm)	0.2517 (ppm)	0.73	0.2517 (ppm)	312085.4825
3/6/2018 22:03:24	Continuing Calibration Verification	Ca (227.547 nm)	23.9606 (ppm)	0.67	23.9606 (ppm)	1129.9740
3/6/2018 22:03:24	Continuing Calibration Verification	Cd (214.439 nm)	0.4955 (ppm)	0.80	0.4955 (ppm)	9761.1907
3/6/2018 22:03:24	Continuing Calibration Verification	Co (230.786 nm)	2.5579 (ppm)	0.65	2.5579 (ppm)	22856.8767
3/6/2018 22:03:24	Continuing Calibration Verification	Cr (267.716 nm)	0.5209 (ppm)	0.67	0.5209 (ppm)	21436.9748
3/6/2018 22:03:24	Continuing Calibration Verification	Cu (327.395 nm)	1.2178 (ppm)	0.85	1.2178 (ppm)	59468.1963



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:03:24	Continuing Calibration Verification	Fe (234.350 nm)	5.0090 (ppm)	0.66	5.0090 (ppm)	48397.4188
3/6/2018 22:03:24	Continuing Calibration Verification	K (766.491 nm)	23.7144 (ppm)	0.89	23.7144 (ppm)	58332.3427
3/6/2018 22:03:24	Continuing Calibration Verification	Mg (279.078 nm)	24.7531 (ppm)	0.72	24.7531 (ppm)	42990.4653
3/6/2018 22:03:24	Continuing Calibration Verification	Mn (257.610 nm)	0.7634 (ppm)	0.64	0.7634 (ppm)	206481.8731
3/6/2018 22:03:24	Continuing Calibration Verification	Mo (202.032 nm)	2.3494 (ppm)	0.65	2.3494 (ppm)	19636.6221
3/6/2018 22:03:24	Continuing Calibration Verification	Na (588.995 nm)	24.7872 (ppm)	0.87	24.7872 (ppm)	838880.1697
3/6/2018 22:03:24	Continuing Calibration Verification	Ni (230.299 nm)	2.0398 (ppm)	0.64	2.0398 (ppm)	12492.9241
3/6/2018 22:03:24	Continuing Calibration Verification	Pb (220.353 nm)	0.4995 (ppm)	0.85	0.4995 (ppm)	964.7359
3/6/2018 22:03:24	Continuing Calibration Verification	Sb (217.582 nm)	4.8770 (ppm)	0.69	4.8770 (ppm)	5744.5423
3/6/2018 22:03:24	Continuing Calibration Verification	Se (196.026 nm)	0.4737 (ppm)	0.95	0.4737 (ppm)	342.7054
3/6/2018 22:03:24	Continuing Calibration Verification	Sn (189.925 nm)	4.9766 (ppm)	0.91	4.9766 (ppm)	5124.1356
3/6/2018 22:03:24	Continuing Calibration Verification	Sr (216.596 nm)	2.5323 (ppm)	0.66	2.5323 (ppm)	31170.8850
3/6/2018 22:03:24	Continuing Calibration Verification	Ti (336.122 nm)	2.4918 (ppm)	0.68	2.4918 (ppm)	419746.6964
3/6/2018 22:03:24	Continuing Calibration Verification	Tl (351.923 nm)	0.9922 (ppm)	0.84	0.9922 (ppm)	2083.7370
3/6/2018 22:03:24	Continuing Calibration Verification	V (292.401 nm)	2.5189 (ppm)	0.64	2.5189 (ppm)	76923.7600
3/6/2018 22:03:24	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	1.09	0.99 (Ratio)	724934.31
3/6/2018 22:03:24	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	1.09	0.99 (Ratio)	726585.14
3/6/2018 22:03:24	Continuing Calibration Verification	Zn (213.857 nm)	1.1479 Q (ppm)	0.71	1.1479 (ppm)	28780.4596 Q
3/6/2018 22:06:45	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-112.3465
3/6/2018 22:06:45	Continuing Calibration Blank	Al (394.401 nm)	0.0015 (ppm)	72.93	0.0015 (ppm)	130.8901
3/6/2018 22:06:45	Continuing Calibration Blank	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.5131
3/6/2018 22:06:45	Continuing Calibration Blank	B (249.772 nm)	0.0021 (ppm)	31.29	0.0021 (ppm)	122.0310
3/6/2018 22:06:45	Continuing Calibration Blank	Ba (230.424 nm)	0.0019 (ppm)	32.31	0.0019 (ppm)	55.8503
3/6/2018 22:06:45	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	25.80	0.0001 (ppm)	-414.4128
3/6/2018 22:06:45	Continuing Calibration Blank	Ca (227.547 nm)	-0.0429 u (ppm)	> 100.00	-0.0429 (ppm)	4.2183
3/6/2018 22:06:45	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	71.22	0.0001 (ppm)	16.6285
3/6/2018 22:06:45	Continuing Calibration Blank	Co (230.786 nm)	0.0005 (ppm)	15.67	0.0005 (ppm)	-3.5204
3/6/2018 22:06:45	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	3.0726
3/6/2018 22:06:45	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	44.76	0.0002 (ppm)	27.9408
3/6/2018 22:06:45	Continuing Calibration Blank	Fe (234.350 nm)	0.0013 (ppm)	17.73	0.0013 (ppm)	31.8712
3/6/2018 22:06:45	Continuing Calibration Blank	K (766.491 nm)	0.0114 u (ppm)	> 100.00	0.0114 (ppm)	46.7472
3/6/2018 22:06:45	Continuing Calibration Blank	Mg (279.078 nm)	0.0030 (ppm)	68.87	0.0030 (ppm)	-0.6474
3/6/2018 22:06:45	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	39.71	0.0002 (ppm)	44.2311
3/6/2018 22:06:45	Continuing Calibration Blank	Mo (202.032 nm)	0.0014 (ppm)	15.28	0.0014 (ppm)	18.7220
3/6/2018 22:06:45	Continuing Calibration Blank	Na (588.995 nm)	0.0054 (ppm)	66.06	0.0054 (ppm)	-7806.1069
3/6/2018 22:06:45	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 (ppm)	26.87	0.0004 (ppm)	-21.3367
3/6/2018 22:06:45	Continuing Calibration Blank	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	5.4049
3/6/2018 22:06:45	Continuing Calibration Blank	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	2.6270
3/6/2018 22:06:45	Continuing Calibration Blank	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-3.0471
3/6/2018 22:06:45	Continuing Calibration Blank	Sn (189.925 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.6841
3/6/2018 22:06:45	Continuing Calibration Blank	Sr (216.596 nm)	0.0003 (ppm)	66.39	0.0003 (ppm)	1.1955
3/6/2018 22:06:45	Continuing Calibration Blank	Ti (336.122 nm)	0.0010 (ppm)	11.12	0.0010 (ppm)	-413.4743
3/6/2018 22:06:45	Continuing Calibration Blank	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	18.1971
3/6/2018 22:06:45	Continuing Calibration Blank	V (292.401 nm)	0.0005 (ppm)	49.51	0.0005 (ppm)	152.3658
3/6/2018 22:06:45	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	750697.11
3/6/2018 22:06:45	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.84	1.03 (Ratio)	752221.22
3/6/2018 22:06:45	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	70.26	0.0001 (ppm)	-24.7881
3/6/2018 22:10:05	Contract Required Detection Limit	Ag (328.068 nm)	0.0096 (ppm)	0.53	0.0096 (ppm)	471.8768
3/6/2018 22:10:05	Contract Required Detection Limit	Al (394.401 nm)	0.1772 (ppm)	0.50	0.1772 (ppm)	1956.1190
3/6/2018 22:10:05	Contract Required Detection Limit	As (188.980 nm)	0.0188 (ppm)	11.13	0.0188 (ppm)	13.0662
3/6/2018 22:10:05	Contract Required Detection Limit	B (249.772 nm)	0.1933 (ppm)	0.15	0.1933 (ppm)	4658.5579

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:10:05	Contract Required Detection Limit	Ba (230.424 nm)	0.2045 (ppm)	0.05	0.2045 (ppm)	5932.8147
3/6/2018 22:10:05	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.15	0.0049 (ppm)	5541.3998
3/6/2018 22:10:05	Contract Required Detection Limit	Ca (227.547 nm)	0.8795 (ppm)	2.77	0.8795 (ppm)	47.4806
3/6/2018 22:10:05	Contract Required Detection Limit	Cd (214.439 nm)	0.0098 (ppm)	1.95	0.0098 (ppm)	206.8696
3/6/2018 22:10:05	Contract Required Detection Limit	Co (230.786 nm)	0.0497 (ppm)	0.59	0.0497 (ppm)	436.2899
3/6/2018 22:10:05	Contract Required Detection Limit	Cr (267.716 nm)	0.0101 (ppm)	0.11	0.0101 (ppm)	413.9860
3/6/2018 22:10:05	Contract Required Detection Limit	Cu (327.395 nm)	0.0240 (ppm)	0.54	0.0240 (ppm)	1188.9323
3/6/2018 22:10:05	Contract Required Detection Limit	Fe (234.350 nm)	0.1013 (ppm)	0.37	0.1013 (ppm)	998.1539
3/6/2018 22:10:05	Contract Required Detection Limit	K (766.491 nm)	0.8755 (ppm)	1.22	0.8755 (ppm)	2171.4585
3/6/2018 22:10:05	Contract Required Detection Limit	Mg (279.078 nm)	0.9941 (ppm)	0.28	0.9941 (ppm)	1720.8492
3/6/2018 22:10:05	Contract Required Detection Limit	Mn (257.610 nm)	0.0151 (ppm)	0.27	0.0151 (ppm)	4091.5694
3/6/2018 22:10:05	Contract Required Detection Limit	Mo (202.032 nm)	0.0246 (ppm)	0.27	0.0246 (ppm)	212.5444
3/6/2018 22:10:05	Contract Required Detection Limit	Na (588.995 nm)	0.9980 (ppm)	0.60	0.9980 (ppm)	26107.3868
3/6/2018 22:10:05	Contract Required Detection Limit	Ni (230.299 nm)	0.0420 (ppm)	3.28	0.0420 (ppm)	233.7277
3/6/2018 22:10:05	Contract Required Detection Limit	Pb (220.353 nm)	0.0085 (ppm)	16.05	0.0085 (ppm)	23.1386
3/6/2018 22:10:05	Contract Required Detection Limit	Sb (217.582 nm)	0.0598 (ppm)	1.95	0.0598 (ppm)	72.5819
3/6/2018 22:10:05	Contract Required Detection Limit	Se (196.026 nm)	0.0088 (ppm)	7.75	0.0088 (ppm)	4.7078
3/6/2018 22:10:05	Contract Required Detection Limit	Sn (189.925 nm)	0.4938 (ppm)	0.29	0.4938 (ppm)	508.9751
3/6/2018 22:10:05	Contract Required Detection Limit	Sr (216.596 nm)	0.0994 (ppm)	0.26	0.0994 (ppm)	1220.7693
3/6/2018 22:10:05	Contract Required Detection Limit	Ti (336.122 nm)	0.0498 (ppm)	0.15	0.0498 (ppm)	7824.7042
3/6/2018 22:10:05	Contract Required Detection Limit	Tl (351.923 nm)	0.0155 R (ppm)	26.23	0.0155 (ppm)	50.9332 R
3/6/2018 22:10:05	Contract Required Detection Limit	V (292.401 nm)	0.0476 (ppm)	0.30	0.0476 (ppm)	1587.1761
3/6/2018 22:10:05	Contract Required Detection Limit	Y (360.074 nm)	1.04 (Ratio)	0.30	1.04 (Ratio)	762774.61
3/6/2018 22:10:05	Contract Required Detection Limit	Y_R (360.074 nm)	1.04 (Ratio)	0.29	1.04 (Ratio)	764319.02
3/6/2018 22:10:05	Contract Required Detection Limit	Zn (213.857 nm)	0.0196 (ppm)	0.82	0.0196 (ppm)	464.3505
3/6/2018 22:13:26	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u (ppm)	22.42	-0.0003 (ppm)	-124.6246
3/6/2018 22:13:26	Interference Check Solution A	Al (394.401 nm)	265.2397 o (ppm)	0.75	265.2397 (ppm)	2755739.9143
3/6/2018 22:13:26	Interference Check Solution A	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.0783
3/6/2018 22:13:26	Interference Check Solution A	B (249.772 nm)	0.0486 (ppm)	0.36	0.0486 (ppm)	1225.6114
3/6/2018 22:13:26	Interference Check Solution A	Ba (230.424 nm)	0.0005 (ppm)	21.99	0.0005 (ppm)	15.0972
3/6/2018 22:13:26	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	24.70	0.0000 (ppm)	-546.2365
3/6/2018 22:13:26	Interference Check Solution A	Ca (227.547 nm)	265.7862 o (ppm)	0.66	265.7862 (ppm)	12471.5043
3/6/2018 22:13:26	Interference Check Solution A	Cd (214.439 nm)	-0.0013 Ku (ppm)	6.64	-0.0013 (ppm)	-10.7786 K
3/6/2018 22:13:26	Interference Check Solution A	Co (230.786 nm)	-0.0021 u (ppm)	22.97	-0.0021 (ppm)	-27.1030
3/6/2018 22:13:26	Interference Check Solution A	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.0414
3/6/2018 22:13:26	Interference Check Solution A	Cu (327.395 nm)	0.0009 (ppm)	10.57	0.0009 (ppm)	61.1807
3/6/2018 22:13:26	Interference Check Solution A	Fe (234.350 nm)	92.1180 o (ppm)	0.69	92.1180 (ppm)	889704.2131
3/6/2018 22:13:26	Interference Check Solution A	K (766.491 nm)	0.0558 (ppm)	10.94	0.0558 (ppm)	155.8895
3/6/2018 22:13:26	Interference Check Solution A	Mg (279.078 nm)	263.9379 o (ppm)	0.62	263.9379 (ppm)	458457.0683
3/6/2018 22:13:26	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	0.69	0.0016 (ppm)	436.5723
3/6/2018 22:13:26	Interference Check Solution A	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	8.5317
3/6/2018 22:13:26	Interference Check Solution A	Na (588.995 nm)	-0.0251 u (ppm)	4.69	-0.0251 (ppm)	-8849.9228
3/6/2018 22:13:26	Interference Check Solution A	Ni (230.299 nm)	-0.0032 u (ppm)	25.66	-0.0032 (ppm)	-43.1734
3/6/2018 22:13:26	Interference Check Solution A	Pb (220.353 nm)	-0.0042 u (ppm)	57.78	-0.0042 (ppm)	-1.2994
3/6/2018 22:13:26	Interference Check Solution A	Sb (217.582 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-0.0216
3/6/2018 22:13:26	Interference Check Solution A	Se (196.026 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-1.1530
3/6/2018 22:13:26	Interference Check Solution A	Sn (189.925 nm)	-0.0024 u (ppm)	81.22	-0.0024 (ppm)	-1.8559
3/6/2018 22:13:26	Interference Check Solution A	Sr (216.596 nm)	0.0188 (ppm)	5.45	0.0188 (ppm)	228.5988
3/6/2018 22:13:26	Interference Check Solution A	Ti (336.122 nm)	0.0017 (ppm)	5.70	0.0017 (ppm)	-287.3586
3/6/2018 22:13:26	Interference Check Solution A	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	20.4054
3/6/2018 22:13:26	Interference Check Solution A	V (292.401 nm)	0.0034 K (ppm)	2.48	0.0034 (ppm)	240.5462 K

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:13:26	Interference Check Solution A	Y (360.074 nm)	0.91 (Ratio)	1.10	0.91 (Ratio)	665626.08
3/6/2018 22:13:26	Interference Check Solution A	Y_R (360.074 nm)	0.91 (Ratio)	1.10	0.91 (Ratio)	667275.98
3/6/2018 22:13:26	Interference Check Solution A	Zn (213.857 nm)	0.0106 K (ppm)	0.86	0.0106 (ppm)	238.4896 K
3/6/2018 22:16:46	Interference Check Solution AB	Ag (328.068 nm)	0.2119 (ppm)	1.00	0.2119 (ppm)	12666.8410
3/6/2018 22:16:46	Interference Check Solution AB	Al (394.401 nm)	264.5399 o (ppm)	0.96	264.5399 (ppm)	2748469.8278
3/6/2018 22:16:46	Interference Check Solution AB	As (188.980 nm)	0.1014 (ppm)	6.51	0.1014 (ppm)	73.7040
3/6/2018 22:16:46	Interference Check Solution AB	B (249.772 nm)	0.0495 (ppm)	0.65	0.0495 (ppm)	1246.0716
3/6/2018 22:16:46	Interference Check Solution AB	Ba (230.424 nm)	0.5224 (ppm)	1.09	0.5224 (ppm)	15150.8527
3/6/2018 22:16:46	Interference Check Solution AB	Be (313.107 nm)	0.5054 (ppm)	0.93	0.5054 (ppm)	627288.3499
3/6/2018 22:16:46	Interference Check Solution AB	Ca (227.547 nm)	264.5869 o (ppm)	1.11	264.5869 (ppm)	12415.2593
3/6/2018 22:16:46	Interference Check Solution AB	Cd (214.439 nm)	0.9712 (ppm)	0.90	0.9712 (ppm)	19119.2437
3/6/2018 22:16:46	Interference Check Solution AB	Co (230.786 nm)	0.4925 (ppm)	1.17	0.4925 (ppm)	4393.8360
3/6/2018 22:16:46	Interference Check Solution AB	Cr (267.716 nm)	0.5097 (ppm)	0.78	0.5097 (ppm)	20973.3969
3/6/2018 22:16:46	Interference Check Solution AB	Cu (327.395 nm)	0.5331 (ppm)	1.14	0.5331 (ppm)	26041.3018
3/6/2018 22:16:46	Interference Check Solution AB	Fe (234.350 nm)	92.0145 o (ppm)	0.98	92.0145 (ppm)	888705.2950
3/6/2018 22:16:46	Interference Check Solution AB	K (766.491 nm)	0.0378 (ppm)	43.13	0.0378 (ppm)	111.6224
3/6/2018 22:16:46	Interference Check Solution AB	Mg (279.078 nm)	263.4119 o (ppm)	0.89	263.4119 (ppm)	457543.4793
3/6/2018 22:16:46	Interference Check Solution AB	Mn (257.610 nm)	0.5022 (ppm)	0.94	0.5022 (ppm)	135831.5266
3/6/2018 22:16:46	Interference Check Solution AB	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.5331
3/6/2018 22:16:46	Interference Check Solution AB	Na (588.995 nm)	-0.0239 u (ppm)	4.75	-0.0239 (ppm)	-8805.8139
3/6/2018 22:16:46	Interference Check Solution AB	Ni (230.299 nm)	0.9612 (ppm)	1.05	0.9612 (ppm)	5874.5924
3/6/2018 22:16:46	Interference Check Solution AB	Pb (220.353 nm)	0.0460 (ppm)	1.24	0.0460 (ppm)	94.9896
3/6/2018 22:16:46	Interference Check Solution AB	Sb (217.582 nm)	0.6095 (ppm)	1.74	0.6095 (ppm)	719.7912
3/6/2018 22:16:46	Interference Check Solution AB	Se (196.026 nm)	0.0474 (ppm)	6.56	0.0474 (ppm)	32.7688
3/6/2018 22:16:46	Interference Check Solution AB	Sn (189.925 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.7248
3/6/2018 22:16:46	Interference Check Solution AB	Sr (216.596 nm)	0.0195 (ppm)	2.74	0.0195 (ppm)	236.9438
3/6/2018 22:16:46	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	6.31	0.0016 (ppm)	-310.1570
3/6/2018 22:16:46	Interference Check Solution AB	Tl (351.923 nm)	0.1158 (ppm)	5.15	0.1158 (ppm)	259.6411
3/6/2018 22:16:46	Interference Check Solution AB	V (292.401 nm)	0.5067 (ppm)	1.02	0.5067 (ppm)	15582.6660
3/6/2018 22:16:46	Interference Check Solution AB	Y (360.074 nm)	0.91 (Ratio)	1.29	0.91 (Ratio)	665799.60
3/6/2018 22:16:46	Interference Check Solution AB	Y_R (360.074 nm)	0.91 (Ratio)	1.29	0.91 (Ratio)	667454.49
3/6/2018 22:16:46	Interference Check Solution AB	Zn (213.857 nm)	1.0103 (ppm)	0.86	1.0103 (ppm)	25325.2711
3/6/2018 22:20:07	HLCCV2	Ag (328.068 nm)	2.1493 o (ppm)	1.80	2.1493 (ppm)	129452.4645
3/6/2018 22:20:07	HLCCV2	Al (394.401 nm)	552.6837 Qo (ppm)	2.11	552.6837 (ppm)	5742049.2650 Q
3/6/2018 22:20:07	HLCCV2	As (188.980 nm)	4.0894 o (ppm)	2.06	4.0894 (ppm)	3002.9780
3/6/2018 22:20:07	HLCCV2	B (249.772 nm)	10.4796 o (ppm)	1.84	10.4796 (ppm)	248656.9879
3/6/2018 22:20:07	HLCCV2	Ba (230.424 nm)	38.7934 o (ppm)	1.95	38.7934 (ppm)	1125083.9395
3/6/2018 22:20:07	HLCCV2	Be (313.107 nm)	0.9981 o (ppm)	1.81	0.9981 (ppm)	1239200.4514
3/6/2018 22:20:07	HLCCV2	Ca (227.547 nm)	277.7296 Qo (ppm)	1.96	277.7296 (ppm)	13031.6470 Q
3/6/2018 22:20:07	HLCCV2	Cd (214.439 nm)	1.9047 o (ppm)	1.86	1.9047 (ppm)	37483.3575
3/6/2018 22:20:07	HLCCV2	Co (230.786 nm)	9.4915 o (ppm)	1.88	9.4915 (ppm)	84836.7314
3/6/2018 22:20:07	HLCCV2	Cr (267.716 nm)	9.9801 o (ppm)	1.76	9.9801 (ppm)	410709.2499
3/6/2018 22:20:07	HLCCV2	Cu (327.395 nm)	5.4899 o (ppm)	1.89	5.4899 (ppm)	268018.4176
3/6/2018 22:20:07	HLCCV2	Fe (234.350 nm)	46.9275 o (ppm)	1.85	46.9275 (ppm)	453250.4003
3/6/2018 22:20:07	HLCCV2	K (766.491 nm)	168.1361 Qo (ppm)	1.92	168.1361 (ppm)	413464.8851 Q
3/6/2018 22:20:07	HLCCV2	Mg (279.078 nm)	521.2291 o (ppm)	2.14	521.2291 (ppm)	905374.6500
3/6/2018 22:20:07	HLCCV2	Mn (257.610 nm)	9.6827 o (ppm)	1.85	9.6827 (ppm)	2618938.3251
3/6/2018 22:20:07	HLCCV2	Mo (202.032 nm)	9.9654 o (ppm)	1.74	9.9654 (ppm)	83268.0473
3/6/2018 22:20:07	HLCCV2	Na (588.995 nm)	161.3141 o (ppm)	2.02	161.3141 (ppm)	5503424.0114
3/6/2018 22:20:07	HLCCV2	Ni (230.299 nm)	7.4549 o (ppm)	1.93	7.4549 (ppm)	45721.9950
3/6/2018 22:20:07	HLCCV2	Pb (220.353 nm)	9.7391 o (ppm)	1.80	9.7391 (ppm)	18684.0471

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:20:07	HLCCV2	Sb (217.582 nm)	0.0281 (ppm)	10.46	0.0281 (ppm)	35.1967
3/6/2018 22:20:07	HLCCV2	Se (196.026 nm)	2.0422 o (ppm)	2.03	2.0422 (ppm)	1483.0601
3/6/2018 22:20:07	HLCCV2	Sn (189.925 nm)	-0.0205 u (ppm)	7.22	-0.0205 (ppm)	-20.4743
3/6/2018 22:20:07	HLCCV2	Sr (216.596 nm)	9.7856 o (ppm)	1.74	9.7856 (ppm)	120460.2568
3/6/2018 22:20:07	HLCCV2	Ti (336.122 nm)	10.1161 o (ppm)	1.81	10.1161 (ppm)	1705830.3933
3/6/2018 22:20:07	HLCCV2	Tl (351.923 nm)	4.6004 Qo (ppm)	1.79	4.6004 (ppm)	9593.4990 Q
3/6/2018 22:20:07	HLCCV2	V (292.401 nm)	10.0396 o (ppm)	1.76	10.0396 (ppm)	306187.4773
3/6/2018 22:20:07	HLCCV2	Y (360.074 nm)	0.86 (Ratio)	2.11	0.86 (Ratio)	628108.52
3/6/2018 22:20:07	HLCCV2	Y_R (360.074 nm)	0.86 (Ratio)	2.11	0.86 (Ratio)	629784.10
3/6/2018 22:20:07	HLCCV2	Zn (213.857 nm)	4.0414 o (ppm)	1.81	4.0414 (ppm)	101390.1753
3/6/2018 22:23:30	HLCCV3	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-108.7427
3/6/2018 22:23:30	HLCCV3	Al (394.401 nm)	0.0815 (ppm)	16.10	0.0815 (ppm)	961.7584
3/6/2018 22:23:30	HLCCV3	As (188.980 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	0.2118
3/6/2018 22:23:30	HLCCV3	B (249.772 nm)	0.0291 (ppm)	6.29	0.0291 (ppm)	763.3558
3/6/2018 22:23:30	HLCCV3	Ba (230.424 nm)	0.0046 (ppm)	22.79	0.0046 (ppm)	135.3108
3/6/2018 22:23:30	HLCCV3	Be (313.107 nm)	0.0001 (ppm)	17.83	0.0001 (ppm)	-341.1995
3/6/2018 22:23:30	HLCCV3	Ca (227.547 nm)	199.8125 o (ppm)	0.71	199.8125 (ppm)	9377.3609
3/6/2018 22:23:30	HLCCV3	Cd (214.439 nm)	0.0006 (ppm)	12.11	0.0006 (ppm)	25.2658
3/6/2018 22:23:30	HLCCV3	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-8.2997
3/6/2018 22:23:30	HLCCV3	Cr (267.716 nm)	0.0009 (ppm)	53.66	0.0009 (ppm)	36.0808
3/6/2018 22:23:30	HLCCV3	Cu (327.395 nm)	4.0854 o (ppm)	1.80	4.0854 (ppm)	199455.7286
3/6/2018 22:23:30	HLCCV3	Fe (234.350 nm)	38.0374 o (ppm)	0.59	38.0374 (ppm)	367388.4935
3/6/2018 22:23:30	HLCCV3	K (766.491 nm)	95.5938 o (ppm)	0.99	95.5938 (ppm)	235083.4364
3/6/2018 22:23:30	HLCCV3	Mg (279.078 nm)	0.0474 (ppm)	28.37	0.0474 (ppm)	76.4031
3/6/2018 22:23:30	HLCCV3	Mn (257.610 nm)	0.0012 (ppm)	21.70	0.0012 (ppm)	322.8958
3/6/2018 22:23:30	HLCCV3	Mo (202.032 nm)	0.0047 (ppm)	7.14	0.0047 (ppm)	46.4027
3/6/2018 22:23:30	HLCCV3	Na (588.995 nm)	0.0103 (ppm)	49.98	0.0103 (ppm)	-7638.7359
3/6/2018 22:23:30	HLCCV3	Ni (230.299 nm)	-0.0280 u (ppm)	3.71	-0.0280 (ppm)	-195.7658
3/6/2018 22:23:30	HLCCV3	Pb (220.353 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	3.9164
3/6/2018 22:23:30	HLCCV3	Sb (217.582 nm)	0.0027 (ppm)	70.51	0.0027 (ppm)	5.2702
3/6/2018 22:23:30	HLCCV3	Se (196.026 nm)	-0.0051 u (ppm)	> 100.00	-0.0051 (ppm)	-5.3542
3/6/2018 22:23:30	HLCCV3	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.1429
3/6/2018 22:23:30	HLCCV3	Sr (216.596 nm)	0.0065 (ppm)	4.88	0.0065 (ppm)	76.4954
3/6/2018 22:23:30	HLCCV3	Ti (336.122 nm)	0.0036 (ppm)	5.33	0.0036 (ppm)	27.5763
3/6/2018 22:23:30	HLCCV3	Tl (351.923 nm)	2.9666 o (ppm)	0.83	2.9666 (ppm)	6192.9508
3/6/2018 22:23:30	HLCCV3	V (292.401 nm)	0.0025 (ppm)	9.57	0.0025 (ppm)	212.0683
3/6/2018 22:23:30	HLCCV3	Y (360.074 nm)	0.96 (Ratio)	1.03	0.96 (Ratio)	705901.75
3/6/2018 22:23:30	HLCCV3	Y_R (360.074 nm)	0.96 (Ratio)	1.02	0.96 (Ratio)	707532.41
3/6/2018 22:23:30	HLCCV3	Zn (213.857 nm)	0.0381 (ppm)	1.67	0.0381 (ppm)	928.3956
3/6/2018 22:26:51	HLCCV1	Ag (328.068 nm)	0.9958 (ppm)	1.29	0.9958 (ppm)	59920.0658
3/6/2018 22:26:51	HLCCV1	Al (394.401 nm)	20.0103 (ppm)	1.31	20.0103 (ppm)	208005.4914
3/6/2018 22:26:51	HLCCV1	As (188.980 nm)	1.9671 (ppm)	1.42	1.9671 (ppm)	1444.1384
3/6/2018 22:26:51	HLCCV1	B (249.772 nm)	4.9659 (ppm)	1.25	4.9659 (ppm)	117867.5086
3/6/2018 22:26:51	HLCCV1	Ba (230.424 nm)	19.8665 (ppm)	1.21	19.8665 (ppm)	576168.8284
3/6/2018 22:26:51	HLCCV1	Be (313.107 nm)	0.5019 (ppm)	1.41	0.5019 (ppm)	622933.3601
3/6/2018 22:26:51	HLCCV1	Ca (227.547 nm)	49.5970 (ppm)	1.61	49.5970 (ppm)	2332.3138
3/6/2018 22:26:51	HLCCV1	Cd (214.439 nm)	0.9906 (ppm)	1.32	0.9906 (ppm)	19500.7705
3/6/2018 22:26:51	HLCCV1	Co (230.786 nm)	4.9538 (ppm)	1.27	4.9538 (ppm)	44273.8252
3/6/2018 22:26:51	HLCCV1	Cr (267.716 nm)	1.0048 (ppm)	1.20	1.0048 (ppm)	41347.6497
3/6/2018 22:26:51	HLCCV1	Cu (327.395 nm)	2.4896 (ppm)	1.27	2.4896 (ppm)	121554.9244
3/6/2018 22:26:51	HLCCV1	Fe (234.350 nm)	9.9469 (ppm)	1.16	9.9469 (ppm)	96088.3183

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:26:51	HLCCV1	K (766.491 nm)	50.2977 (ppm)	1.57	50.2977 (ppm)	123700.5244
3/6/2018 22:26:51	HLCCV1	Mg (279.078 nm)	49.7645 (ppm)	1.21	49.7645 (ppm)	86435.5385
3/6/2018 22:26:51	HLCCV1	Mn (257.610 nm)	1.4994 (ppm)	1.21	1.4994 (ppm)	405545.7714
3/6/2018 22:26:51	HLCCV1	Mo (202.032 nm)	5.0004 (ppm)	1.26	5.0004 (ppm)	41785.4569
3/6/2018 22:26:51	HLCCV1	Na (588.995 nm)	50.5304 (ppm)	1.67	50.5304 (ppm)	1718415.4707
3/6/2018 22:26:51	HLCCV1	Ni (230.299 nm)	3.9692 (ppm)	1.31	3.9692 (ppm)	24332.4417
3/6/2018 22:26:51	HLCCV1	Pb (220.353 nm)	0.9947 (ppm)	1.31	0.9947 (ppm)	1914.3400
3/6/2018 22:26:51	HLCCV1	Sb (217.582 nm)	9.8513 (ppm)	1.39	9.8513 (ppm)	11601.5091
3/6/2018 22:26:51	HLCCV1	Se (196.026 nm)	0.9847 (ppm)	0.76	0.9847 (ppm)	714.2539
3/6/2018 22:26:51	HLCCV1	Sn (189.925 nm)	9.8518 (ppm)	1.44	9.8518 (ppm)	10143.2972
3/6/2018 22:26:51	HLCCV1	Sr (216.596 nm)	5.0008 (ppm)	1.08	5.0008 (ppm)	61558.1192
3/6/2018 22:26:51	HLCCV1	Ti (336.122 nm)	4.9881 (ppm)	1.42	4.9881 (ppm)	840834.7453
3/6/2018 22:26:51	HLCCV1	Tl (351.923 nm)	2.0186 (ppm)	1.32	2.0186 (ppm)	4219.9487
3/6/2018 22:26:51	HLCCV1	V (292.401 nm)	5.0162 (ppm)	1.27	5.0162 (ppm)	153052.0403
3/6/2018 22:26:51	HLCCV1	Y (360.074 nm)	0.96 (Ratio)	1.58	0.96 (Ratio)	707005.54
3/6/2018 22:26:51	HLCCV1	Y_R (360.074 nm)	0.97 (Ratio)	1.58	0.97 (Ratio)	708626.92
3/6/2018 22:26:51	HLCCV1	Zn (213.857 nm)	1.9814 (ppm)	1.30	1.9814 (ppm)	49696.7606
3/6/2018 22:30:12	Continuing Calibration Verification	Ag (328.068 nm)	0.4779 (ppm)	0.94	0.4779 (ppm)	28700.6264
3/6/2018 22:30:12	Continuing Calibration Verification	Al (394.401 nm)	9.6368 (ppm)	0.97	9.6368 (ppm)	100233.6616
3/6/2018 22:30:12	Continuing Calibration Verification	As (188.980 nm)	0.9540 (ppm)	0.84	0.9540 (ppm)	700.0138
3/6/2018 22:30:12	Continuing Calibration Verification	B (249.772 nm)	2.4295 (ppm)	0.98	2.4295 (ppm)	57702.5046
3/6/2018 22:30:12	Continuing Calibration Verification	Ba (230.424 nm)	10.2360 (ppm)	0.64	10.2360 (ppm)	296885.6489
3/6/2018 22:30:12	Continuing Calibration Verification	Be (313.107 nm)	0.2524 (ppm)	0.75	0.2524 (ppm)	312978.6682
3/6/2018 22:30:12	Continuing Calibration Verification	Ca (227.547 nm)	23.9896 (ppm)	1.23	23.9896 (ppm)	1131.3353
3/6/2018 22:30:12	Continuing Calibration Verification	Cd (214.439 nm)	0.4955 (ppm)	0.97	0.4955 (ppm)	9762.1574
3/6/2018 22:30:12	Continuing Calibration Verification	Co (230.786 nm)	2.5600 (ppm)	0.92	2.5600 (ppm)	22875.5554
3/6/2018 22:30:12	Continuing Calibration Verification	Cr (267.716 nm)	0.5217 (ppm)	0.85	0.5217 (ppm)	21467.0563
3/6/2018 22:30:12	Continuing Calibration Verification	Cu (327.395 nm)	1.2227 (ppm)	1.18	1.2227 (ppm)	59705.2230
3/6/2018 22:30:12	Continuing Calibration Verification	Fe (234.350 nm)	5.0134 (ppm)	0.90	5.0134 (ppm)	48439.9802
3/6/2018 22:30:12	Continuing Calibration Verification	K (766.491 nm)	23.8256 (ppm)	1.22	23.8256 (ppm)	58605.7410
3/6/2018 22:30:12	Continuing Calibration Verification	Mg (279.078 nm)	24.7885 (ppm)	0.96	24.7885 (ppm)	43051.9900
3/6/2018 22:30:12	Continuing Calibration Verification	Mn (257.610 nm)	0.7645 (ppm)	0.85	0.7645 (ppm)	206781.4300
3/6/2018 22:30:12	Continuing Calibration Verification	Mo (202.032 nm)	2.3557 (ppm)	0.82	2.3557 (ppm)	19688.8886
3/6/2018 22:30:12	Continuing Calibration Verification	Na (588.995 nm)	24.7784 (ppm)	1.20	24.7784 (ppm)	838582.6100
3/6/2018 22:30:12	Continuing Calibration Verification	Ni (230.299 nm)	2.0354 (ppm)	0.96	2.0354 (ppm)	12468.1555
3/6/2018 22:30:12	Continuing Calibration Verification	Pb (220.353 nm)	0.4986 (ppm)	0.66	0.4986 (ppm)	962.9879
3/6/2018 22:30:12	Continuing Calibration Verification	Sb (217.582 nm)	4.8773 (ppm)	1.18	4.8773 (ppm)	5744.8391
3/6/2018 22:30:12	Continuing Calibration Verification	Se (196.026 nm)	0.4739 (ppm)	0.83	0.4739 (ppm)	342.8603
3/6/2018 22:30:12	Continuing Calibration Verification	Sn (189.925 nm)	4.9909 (ppm)	0.71	4.9909 (ppm)	5138.8597
3/6/2018 22:30:12	Continuing Calibration Verification	Sr (216.596 nm)	2.5315 (ppm)	0.90	2.5315 (ppm)	31160.4146
3/6/2018 22:30:12	Continuing Calibration Verification	Ti (336.122 nm)	2.4960 (ppm)	0.88	2.4960 (ppm)	420451.8492
3/6/2018 22:30:12	Continuing Calibration Verification	Tl (351.923 nm)	0.9949 (ppm)	0.74	0.9949 (ppm)	2089.3993
3/6/2018 22:30:12	Continuing Calibration Verification	V (292.401 nm)	2.5229 (ppm)	0.81	2.5229 (ppm)	77044.3275
3/6/2018 22:30:12	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	1.27	0.99 (Ratio)	725868.99
3/6/2018 22:30:12	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	1.27	0.99 (Ratio)	727481.71
3/6/2018 22:30:12	Continuing Calibration Verification	Zn (213.857 nm)	1.1481 Q (ppm)	0.88	1.1481 (ppm)	28785.4009 Q
3/6/2018 22:33:32	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	36.10	-0.0001 (ppm)	-113.9872
3/6/2018 22:33:32	Continuing Calibration Blank	Al (394.401 nm)	0.0032 (ppm)	43.17	0.0032 (ppm)	148.2778
3/6/2018 22:33:32	Continuing Calibration Blank	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.3018
3/6/2018 22:33:32	Continuing Calibration Blank	B (249.772 nm)	0.0050 (ppm)	13.85	0.0050 (ppm)	190.4312
3/6/2018 22:33:32	Continuing Calibration Blank	Ba (230.424 nm)	0.0025 (ppm)	21.86	0.0025 (ppm)	72.6469

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:33:32	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	4.92	0.0001 (ppm)	-411.3934
3/6/2018 22:33:32	Continuing Calibration Blank	Cs (227.547 nm)	-0.0091 u (ppm)	> 100.00	-0.0091 (ppm)	5.8034
3/6/2018 22:33:32	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	81.96	0.0001 (ppm)	16.3783
3/6/2018 22:33:32	Continuing Calibration Blank	Co (230.786 nm)	0.0006 (ppm)	50.17	0.0006 (ppm)	-3.2465
3/6/2018 22:33:32	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	78.22	0.0001 (ppm)	3.9746
3/6/2018 22:33:32	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	50.26	0.0002 (ppm)	27.3857
3/6/2018 22:33:32	Continuing Calibration Blank	Fe (234.350 nm)	0.0018 (ppm)	31.97	0.0018 (ppm)	37.2924
3/6/2018 22:33:32	Continuing Calibration Blank	K (766.491 nm)	0.0632 (ppm)	16.58	0.0632 (ppm)	173.9322
3/6/2018 22:33:32	Continuing Calibration Blank	Mg (279.078 nm)	0.0054 (ppm)	45.62	0.0054 (ppm)	3.4522
3/6/2018 22:33:32	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	16.91	0.0002 (ppm)	52.2820
3/6/2018 22:33:32	Continuing Calibration Blank	Mo (202.032 nm)	0.0017 (ppm)	21.28	0.0017 (ppm)	21.2458
3/6/2018 22:33:32	Continuing Calibration Blank	Na (588.995 nm)	0.0081 (ppm)	9.97	0.0081 (ppm)	-7713.9541
3/6/2018 22:33:32	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	-21.2494
3/6/2018 22:33:32	Continuing Calibration Blank	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	5.0107
3/6/2018 22:33:32	Continuing Calibration Blank	Sb (217.582 nm)	0.0032 (ppm)	42.54	0.0032 (ppm)	5.8590
3/6/2018 22:33:32	Continuing Calibration Blank	Se (196.026 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-1.0498
3/6/2018 22:33:32	Continuing Calibration Blank	Sn (189.925 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.1468
3/6/2018 22:33:32	Continuing Calibration Blank	Sr (216.596 nm)	0.0006 (ppm)	51.18	0.0006 (ppm)	3.8504
3/6/2018 22:33:32	Continuing Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	4.77	0.0012 (ppm)	-366.5616
3/6/2018 22:33:32	Continuing Calibration Blank	Tl (351.923 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	20.2750
3/6/2018 22:33:32	Continuing Calibration Blank	V (292.401 nm)	0.0005 (ppm)	63.75	0.0005 (ppm)	151.7818
3/6/2018 22:33:32	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	1.28	1.03 (Ratio)	752060.48
3/6/2018 22:33:32	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	1.28	1.03 (Ratio)	753579.52
3/6/2018 22:33:32	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	98.64	0.0001 (ppm)	-25.1380
3/6/2018 22:36:53	PBW-309226	Ag (328.068 nm)	-0.0002 u (ppm)	31.56	-0.0002 (ppm)	-118.1546
3/6/2018 22:36:53	PBW-309226	Al (394.401 nm)	0.0054 (ppm)	16.23	0.0054 (ppm)	171.3406
3/6/2018 22:36:53	PBW-309226	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.4351
3/6/2018 22:36:53	PBW-309226	B (249.772 nm)	0.0031 (ppm)	1.26	0.0031 (ppm)	146.0193
3/6/2018 22:36:53	PBW-309226	Ba (230.424 nm)	0.0006 (ppm)	8.36	0.0006 (ppm)	18.3290
3/6/2018 22:36:53	PBW-309226	Be (313.107 nm)	0.0000 (ppm)	17.09	0.0000 (ppm)	-471.9692
3/6/2018 22:36:53	PBW-309226	Ca (227.547 nm)	-0.0126 u (ppm)	> 100.00	-0.0126 (ppm)	5.6399
3/6/2018 22:36:53	PBW-309226	Cd (214.439 nm)	-0.0002 u (ppm)	25.20	-0.0002 (ppm)	9.2812
3/6/2018 22:36:53	PBW-309226	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-5.1566
3/6/2018 22:36:53	PBW-309226	Cr (267.716 nm)	0.0001 (ppm)	8.19	0.0001 (ppm)	5.5058
3/6/2018 22:36:53	PBW-309226	Cu (327.395 nm)	0.0002 (ppm)	84.08	0.0002 (ppm)	28.5940
3/6/2018 22:36:53	PBW-309226	Fe (234.350 nm)	0.0080 (ppm)	4.82	0.0080 (ppm)	97.0641
3/6/2018 22:36:53	PBW-309226	K (766.491 nm)	0.1353 (ppm)	4.52	0.1353 (ppm)	351.4080
3/6/2018 22:36:53	PBW-309226	Mg (279.078 nm)	0.0039 (ppm)	61.40	0.0039 (ppm)	0.8209
3/6/2018 22:36:53	PBW-309226	Mn (257.610 nm)	0.0003 (ppm)	5.51	0.0003 (ppm)	75.3699
3/6/2018 22:36:53	PBW-309226	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	6.7313
3/6/2018 22:36:53	PBW-309226	Na (588.995 nm)	0.0285 (ppm)	9.01	0.0285 (ppm)	-7016.3731
3/6/2018 22:36:53	PBW-309226	Ni (230.299 nm)	0.0016 (ppm)	20.01	0.0016 (ppm)	-14.2554
3/6/2018 22:36:53	PBW-309226	Pb (220.353 nm)	-0.0021 u (ppm)	63.14	-0.0021 (ppm)	2.6699
3/6/2018 22:36:53	PBW-309226	Sb (217.582 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	1.1969
3/6/2018 22:36:53	PBW-309226	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-2.8372
3/6/2018 22:36:53	PBW-309226	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	1.6115
3/6/2018 22:36:53	PBW-309226	Sr (216.596 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-2.6129
3/6/2018 22:36:53	PBW-309226	Ti (336.122 nm)	0.0018 (ppm)	3.51	0.0018 (ppm)	-277.0193
3/6/2018 22:36:53	PBW-309226	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	20.4759
3/6/2018 22:36:53	PBW-309226	V (292.401 nm)	-0.0003 u (ppm)	76.42	-0.0003 (ppm)	126.6037
3/6/2018 22:36:53	PBW-309226	Y (360.074 nm)	1.06 (Ratio)	0.07	1.06 (Ratio)	779847.17

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:36:53	PBW-309226	Y_R (360.074 nm)	1.07 (Ratio)	0.07	1.07 (Ratio)	781430.11
3/6/2018 22:36:53	PBW-309226	Zn (213.857 nm)	0.0034 (ppm)	1.32	0.0034 (ppm)	59.0144
3/6/2018 22:40:14	LCSW-309226	Ag (328.068 nm)	0.0491 (ppm)	0.42	0.0491 (ppm)	2850.0058
3/6/2018 22:40:14	LCSW-309226	Al (394.401 nm)	1.8704 (ppm)	0.12	1.8704 (ppm)	19546.6539
3/6/2018 22:40:14	LCSW-309226	As (188.980 nm)	0.0365 (ppm)	9.79	0.0365 (ppm)	26.0821
3/6/2018 22:40:14	LCSW-309226	B (249.772 nm)	0.9716 (ppm)	0.08	0.9716 (ppm)	23119.6053
3/6/2018 22:40:14	LCSW-309226	Ba (230.424 nm)	2.0465 (ppm)	0.42	2.0465 (ppm)	59353.8177
3/6/2018 22:40:14	LCSW-309226	Be (313.107 nm)	0.0493 (ppm)	0.01	0.0493 (ppm)	60670.9160
3/6/2018 22:40:14	LCSW-309226	Ca (227.547 nm)	1.9246 (ppm)	1.83	1.9246 (ppm)	96.4949
3/6/2018 22:40:14	LCSW-309226	Cd (214.439 nm)	0.0512 (ppm)	0.53	0.0512 (ppm)	1020.2798
3/6/2018 22:40:14	LCSW-309226	Co (230.786 nm)	0.5102 (ppm)	0.23	0.5102 (ppm)	4551.9878
3/6/2018 22:40:14	LCSW-309226	Cr (267.716 nm)	0.2040 (ppm)	0.10	0.2040 (ppm)	8395.6209
3/6/2018 22:40:14	LCSW-309226	Cu (327.395 nm)	0.2441 (ppm)	0.09	0.2441 (ppm)	11934.5501
3/6/2018 22:40:14	LCSW-309226	Fe (234.350 nm)	0.9950 (ppm)	0.05	0.9950 (ppm)	9629.8429
3/6/2018 22:40:14	LCSW-309226	K (766.491 nm)	18.5678 (ppm)	0.39	18.5678 (ppm)	45676.8257
3/6/2018 22:40:14	LCSW-309226	Mg (279.078 nm)	1.9735 (ppm)	0.05	1.9735 (ppm)	3422.1780
3/6/2018 22:40:14	LCSW-309226	Mn (257.610 nm)	0.5006 (ppm)	0.07	0.5006 (ppm)	135408.9236
3/6/2018 22:40:14	LCSW-309226	Mo (202.032 nm)	0.4913 (ppm)	0.32	0.4913 (ppm)	4111.7552
3/6/2018 22:40:14	LCSW-309226	Na (588.995 nm)	19.4106 (ppm)	0.46	19.4106 (ppm)	655186.7676
3/6/2018 22:40:14	LCSW-309226	Ni (230.299 nm)	0.4971 (ppm)	0.13	0.4971 (ppm)	3026.4353
3/6/2018 22:40:14	LCSW-309226	Pb (220.353 nm)	0.5115 (ppm)	0.38	0.5115 (ppm)	987.6619
3/6/2018 22:40:14	LCSW-309226	Sb (217.582 nm)	0.4665 (ppm)	0.64	0.4665 (ppm)	551.3874
3/6/2018 22:40:14	LCSW-309226	Se (196.026 nm)	1.0258 (ppm)	0.62	1.0258 (ppm)	744.1568
3/6/2018 22:40:14	LCSW-309226	Sn (189.925 nm)	4.9406 (ppm)	0.22	4.9406 (ppm)	5087.0161
3/6/2018 22:40:14	LCSW-309226	Sr (216.596 nm)	2.0225 (ppm)	0.41	2.0225 (ppm)	24895.1053
3/6/2018 22:40:14	LCSW-309226	Ti (336.122 nm)	0.4905 (ppm)	0.10	0.4905 (ppm)	82158.5177
3/6/2018 22:40:14	LCSW-309226	Tl (351.923 nm)	1.8801 (ppm)	0.17	1.8801 (ppm)	3931.7725
3/6/2018 22:40:14	LCSW-309226	V (292.401 nm)	0.4889 (ppm)	0.04	0.4889 (ppm)	15039.4253
3/6/2018 22:40:14	LCSW-309226	Y (360.074 nm)	1.02 (Ratio)	0.47	1.02 (Ratio)	749812.52
3/6/2018 22:40:14	LCSW-309226	Y_R (360.074 nm)	1.02 (Ratio)	0.47	1.02 (Ratio)	751411.20
3/6/2018 22:40:14	LCSW-309226	Zn (213.857 nm)	0.5084 (ppm)	0.52	0.5084 (ppm)	12732.2045
3/6/2018 22:43:35	R1801639-001 10X	Ag (328.068 nm)	-0.0002 u (ppm)	8.16	-0.0002 (ppm)	-122.9137
3/6/2018 22:43:35	R1801639-001 10X	Al (394.401 nm)	0.0307 (ppm)	4.55	0.0307 (ppm)	433.7586
3/6/2018 22:43:35	R1801639-001 10X	As (188.980 nm)	-0.0034 u (ppm)	66.33	-0.0034 (ppm)	-3.2244
3/6/2018 22:43:35	R1801639-001 10X	B (249.772 nm)	0.0078 (ppm)	4.49	0.0078 (ppm)	256.6541
3/6/2018 22:43:35	R1801639-001 10X	Ba (230.424 nm)	0.0022 (ppm)	13.11	0.0022 (ppm)	65.1661
3/6/2018 22:43:35	R1801639-001 10X	Be (313.107 nm)	0.0000 (ppm)	33.42	0.0000 (ppm)	-471.9047
3/6/2018 22:43:35	R1801639-001 10X	Ca (227.547 nm)	26.8083 (ppm)	1.79	26.8083 (ppm)	1263.5292
3/6/2018 22:43:35	R1801639-001 10X	Cd (214.439 nm)	0.0001 (ppm)	7.96	0.0001 (ppm)	16.3135
3/6/2018 22:43:35	R1801639-001 10X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-6.8339
3/6/2018 22:43:35	R1801639-001 10X	Cr (267.716 nm)	-0.0001 u (ppm)	93.87	-0.0001 (ppm)	-6.4620
3/6/2018 22:43:35	R1801639-001 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.0751
3/6/2018 22:43:35	R1801639-001 10X	Fe (234.350 nm)	0.1214 (ppm)	1.26	0.1214 (ppm)	1191.8555
3/6/2018 22:43:35	R1801639-001 10X	K (766.491 nm)	0.9967 (ppm)	2.11	0.9967 (ppm)	2469.6214
3/6/2018 22:43:35	R1801639-001 10X	Mg (279.078 nm)	5.4625 (ppm)	1.69	5.4625 (ppm)	9482.5498
3/6/2018 22:43:35	R1801639-001 10X	Mn (257.610 nm)	0.0055 (ppm)	1.70	0.0055 (ppm)	1489.1776
3/6/2018 22:43:35	R1801639-001 10X	Mo (202.032 nm)	0.0003 (ppm)	62.20	0.0003 (ppm)	10.1031
3/6/2018 22:43:35	R1801639-001 10X	Na (588.995 nm)	26.2439 (ppm)	1.99	26.2439 (ppm)	888650.3554
3/6/2018 22:43:35	R1801639-001 10X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-24.3073
3/6/2018 22:43:35	R1801639-001 10X	Pb (220.353 nm)	-0.0021 u (ppm)	34.15	-0.0021 (ppm)	2.7567
3/6/2018 22:43:35	R1801639-001 10X	Sb (217.582 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	1.2817

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:43:35	R1801639-001 10X	Se (196.026 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	-3.6612
3/6/2018 22:43:35	R1801639-001 10X	Sn (189.925 nm)	-0.0015 u (ppm)	11.04	-0.0015 (ppm)	-0.9264
3/6/2018 22:43:35	R1801639-001 10X	Sr (216.596 nm)	0.1641 (ppm)	1.91	0.1641 (ppm)	2016.8990
3/6/2018 22:43:35	R1801639-001 10X	Ti (336.122 nm)	0.0007 (ppm)	16.47	0.0007 (ppm)	-458.6846
3/6/2018 22:43:35	R1801639-001 10X	Ti (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	15.9817
3/6/2018 22:43:35	R1801639-001 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	140.1026
3/6/2018 22:43:35	R1801639-001 10X	Y (360.074 nm)	1.00 (Ratio)	1.92	1.00 (Ratio)	731362.66
3/6/2018 22:43:35	R1801639-001 10X	Y_R (360.074 nm)	1.00 (Ratio)	1.92	1.00 (Ratio)	732916.05
3/6/2018 22:43:35	R1801639-001 10X	Zn (213.857 nm)	0.0011 (ppm)	10.99	0.0011 (ppm)	1.1186
3/6/2018 22:46:56	R1801639-002 10X	Ag (328.068 nm)	-0.0002 u (ppm)	53.30	-0.0002 (ppm)	-120.7581
3/6/2018 22:46:56	R1801639-002 10X	Al (394.401 nm)	0.0357 (ppm)	2.81	0.0357 (ppm)	485.5905
3/6/2018 22:46:56	R1801639-002 10X	As (188.980 nm)	-0.0028 u (ppm)	66.29	-0.0028 (ppm)	-2.7659
3/6/2018 22:46:56	R1801639-002 10X	B (249.772 nm)	0.0065 (ppm)	1.60	0.0065 (ppm)	225.8318
3/6/2018 22:46:56	R1801639-002 10X	Ba (230.424 nm)	0.0021 (ppm)	7.15	0.0021 (ppm)	63.2952
3/6/2018 22:46:56	R1801639-002 10X	Be (313.107 nm)	0.0000 (ppm)	30.43	0.0000 (ppm)	-479.2218
3/6/2018 22:46:56	R1801639-002 10X	Ca (227.547 nm)	26.2682 (ppm)	0.79	26.2682 (ppm)	1238.1995
3/6/2018 22:46:56	R1801639-002 10X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.8798
3/6/2018 22:46:56	R1801639-002 10X	Co (230.786 nm)	-0.0001 u (ppm)	31.15	-0.0001 (ppm)	-9.3435
3/6/2018 22:46:56	R1801639-002 10X	Cr (267.716 nm)	-0.0002 u (ppm)	80.83	-0.0002 (ppm)	-8.3460
3/6/2018 22:46:56	R1801639-002 10X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.3240
3/6/2018 22:46:56	R1801639-002 10X	Fe (234.350 nm)	0.1228 (ppm)	0.25	0.1228 (ppm)	1205.4975
3/6/2018 22:46:56	R1801639-002 10X	K (766.491 nm)	0.9792 (ppm)	0.92	0.9792 (ppm)	2426.3598
3/6/2018 22:46:56	R1801639-002 10X	Mg (279.078 nm)	5.3778 (ppm)	0.55	5.3778 (ppm)	9335.4682
3/6/2018 22:46:56	R1801639-002 10X	Mn (257.610 nm)	0.0054 (ppm)	0.82	0.0054 (ppm)	1455.4037
3/6/2018 22:46:56	R1801639-002 10X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	6.7534
3/6/2018 22:46:56	R1801639-002 10X	Na (588.995 nm)	25.7563 (ppm)	0.87	25.7563 (ppm)	871991.9947
3/6/2018 22:46:56	R1801639-002 10X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-23.1779
3/6/2018 22:46:56	R1801639-002 10X	Pb (220.353 nm)	-0.0027 u (ppm)	43.94	-0.0027 (ppm)	1.5621
3/6/2018 22:46:56	R1801639-002 10X	Sb (217.582 nm)	0.0032 (ppm)	46.19	0.0032 (ppm)	5.8420
3/6/2018 22:46:56	R1801639-002 10X	Se (196.026 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-0.4945
3/6/2018 22:46:56	R1801639-002 10X	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.8228
3/6/2018 22:46:56	R1801639-002 10X	Sr (216.596 nm)	0.1607 (ppm)	0.88	0.1607 (ppm)	1975.5237
3/6/2018 22:46:56	R1801639-002 10X	Ti (336.122 nm)	0.0005 (ppm)	3.22	0.0005 (ppm)	-490.9137
3/6/2018 22:46:56	R1801639-002 10X	Ti (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.9269
3/6/2018 22:46:56	R1801639-002 10X	V (292.401 nm)	0.0002 (ppm)	95.23	0.0002 (ppm)	143.5677
3/6/2018 22:46:56	R1801639-002 10X	Y (360.074 nm)	1.01 (Ratio)	0.83	1.01 (Ratio)	737539.98
3/6/2018 22:46:56	R1801639-002 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.83	1.01 (Ratio)	739069.75
3/6/2018 22:46:56	R1801639-002 10X	Zn (213.857 nm)	0.0007 (ppm)	17.27	0.0007 (ppm)	-9.7964
3/6/2018 22:50:16	R1801639-005 10X	Ag (328.068 nm)	-0.0005 u (ppm)	4.58	-0.0005 (ppm)	-136.7817
3/6/2018 22:50:16	R1801639-005 10X	Al (394.401 nm)	0.0587 (ppm)	3.75	0.0587 (ppm)	724.4721
3/6/2018 22:50:16	R1801639-005 10X	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.6017
3/6/2018 22:50:16	R1801639-005 10X	B (249.772 nm)	0.0134 (ppm)	3.46	0.0134 (ppm)	389.6728
3/6/2018 22:50:16	R1801639-005 10X	Ba (230.424 nm)	0.0202 (ppm)	1.36	0.0202 (ppm)	587.3094
3/6/2018 22:50:16	R1801639-005 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-509.2472
3/6/2018 22:50:16	R1801639-005 10X	Ca (227.547 nm)	1641.0775 u (ppm)	1.07	1641.0775 (ppm)	76972.1445
3/6/2018 22:50:16	R1801639-005 10X	Cd (214.439 nm)	0.0001 (ppm)	90.23	0.0001 (ppm)	15.4878
3/6/2018 22:50:16	R1801639-005 10X	Co (230.786 nm)	0.0007 (ppm)	31.69	0.0007 (ppm)	-2.3340
3/6/2018 22:50:16	R1801639-005 10X	Cr (267.716 nm)	-0.0006 u (ppm)	16.25	-0.0006 (ppm)	-24.9314
3/6/2018 22:50:16	R1801639-005 10X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	24.9340
3/6/2018 22:50:16	R1801639-005 10X	Fe (234.350 nm)	2.1153 (ppm)	0.75	2.1153 (ppm)	20449.7696
3/6/2018 22:50:16	R1801639-005 10X	K (766.491 nm)	21.3722 (ppm)	1.24	21.3722 (ppm)	52572.8989



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:50:16	R1801639-005 10X	Mg (279.078 nm)	85.1417 u (ppm)	0.70	85.1417 (ppm)	147886.2264
3/6/2018 22:50:16	R1801639-005 10X	Mn (257.610 nm)	0.2459 (ppm)	0.68	0.2459 (ppm)	66496.9068
3/6/2018 22:50:16	R1801639-005 10X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.6659
3/6/2018 22:50:16	R1801639-005 10X	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/6/2018 22:50:16	R1801639-005 10X	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-21.5001
3/6/2018 22:50:16	R1801639-005 10X	Pb (220.353 nm)	-0.0021 u (ppm)	18.92	-0.0021 (ppm)	2.7685
3/6/2018 22:50:16	R1801639-005 10X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	2.7031
3/6/2018 22:50:16	R1801639-005 10X	Se (196.026 nm)	-0.0045 u (ppm)	84.69	-0.0045 (ppm)	-4.9293
3/6/2018 22:50:16	R1801639-005 10X	Sn (189.925 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-1.0901
3/6/2018 22:50:16	R1801639-005 10X	Sr (216.596 nm)	4.3270 (ppm)	0.92	4.3270 (ppm)	53264.1493
3/6/2018 22:50:16	R1801639-005 10X	Ti (336.122 nm)	0.0104 (ppm)	1.01	0.0104 (ppm)	1170.3809
3/6/2018 22:50:16	R1801639-005 10X	Tl (351.923 nm)	0.0624 (ppm)	5.07	0.0624 (ppm)	148.6244
3/6/2018 22:50:16	R1801639-005 10X	V (292.401 nm)	0.0007 (ppm)	45.48	0.0007 (ppm)	156.1479
3/6/2018 22:50:16	R1801639-005 10X	Y (360.074 nm)	0.82 (Ratio)	1.12	0.82 (Ratio)	604745.38
3/6/2018 22:50:16	R1801639-005 10X	Y_R (360.074 nm)	0.83 (Ratio)	1.12	0.83 (Ratio)	606426.34
3/6/2018 22:50:16	R1801639-005 10X	Zn (213.857 nm)	0.0023 (ppm)	2.60	0.0023 (ppm)	30.3161
3/6/2018 22:53:37	R1801639-007 10X	Ag (328.068 nm)	-0.0001 u (ppm)	64.13	-0.0001 (ppm)	-113.8909
3/6/2018 22:53:37	R1801639-007 10X	Al (394.401 nm)	0.0212 (ppm)	3.49	0.0212 (ppm)	335.4578
3/6/2018 22:53:37	R1801639-007 10X	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6760
3/6/2018 22:53:37	R1801639-007 10X	B (249.772 nm)	0.0027 (ppm)	4.04	0.0027 (ppm)	135.6156
3/6/2018 22:53:37	R1801639-007 10X	Ba (230.424 nm)	0.0271 (ppm)	0.53	0.0271 (ppm)	788.0029
3/6/2018 22:53:37	R1801639-007 10X	Be (313.107 nm)	0.0000 (ppm)	22.85	0.0000 (ppm)	-482.2369
3/6/2018 22:53:37	R1801639-007 10X	Ca (227.547 nm)	44.5831 (ppm)	0.30	44.5831 (ppm)	2097.1644
3/6/2018 22:53:37	R1801639-007 10X	Cd (214.439 nm)	0.0001 (ppm)	53.32	0.0001 (ppm)	15.9145
3/6/2018 22:53:37	R1801639-007 10X	Co (230.786 nm)	0.0004 (ppm)	48.36	0.0004 (ppm)	-5.1179
3/6/2018 22:53:37	R1801639-007 10X	Cr (267.716 nm)	-0.0001 u (ppm)	32.14	-0.0001 (ppm)	-5.1850
3/6/2018 22:53:37	R1801639-007 10X	Cu (327.395 nm)	0.0003 (ppm)	31.52	0.0003 (ppm)	34.4680
3/6/2018 22:53:37	R1801639-007 10X	Fe (234.350 nm)	0.0058 (ppm)	4.40	0.0058 (ppm)	75.8379
3/6/2018 22:53:37	R1801639-007 10X	K (766.491 nm)	0.7189 (ppm)	1.39	0.7189 (ppm)	1786.5096
3/6/2018 22:53:37	R1801639-007 10X	Mg (279.078 nm)	4.7634 (ppm)	0.23	4.7634 (ppm)	8268.2241
3/6/2018 22:53:37	R1801639-007 10X	Mn (257.610 nm)	0.2631 (ppm)	0.11	0.2631 (ppm)	71171.0160
3/6/2018 22:53:37	R1801639-007 10X	Mo (202.032 nm)	-0.0006 u (ppm)	53.98	-0.0006 (ppm)	2.3303
3/6/2018 22:53:37	R1801639-007 10X	Na (588.995 nm)	42.0063 (ppm)	0.38	42.0063 (ppm)	1427185.3438
3/6/2018 22:53:37	R1801639-007 10X	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-25.0000
3/6/2018 22:53:37	R1801639-007 10X	Pb (220.353 nm)	-0.0028 u (ppm)	35.67	-0.0028 (ppm)	1.3339
3/6/2018 22:53:37	R1801639-007 10X	Sb (217.582 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	1.5548
3/6/2018 22:53:37	R1801639-007 10X	Se (196.026 nm)	-0.0052 u (ppm)	39.59	-0.0052 (ppm)	-5.4333
3/6/2018 22:53:37	R1801639-007 10X	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	0.0416
3/6/2018 22:53:37	R1801639-007 10X	Sr (216.596 nm)	0.2191 (ppm)	0.37	0.2191 (ppm)	2694.3159
3/6/2018 22:53:37	R1801639-007 10X	Ti (336.122 nm)	0.0003 (ppm)	8.98	0.0003 (ppm)	-524.0643
3/6/2018 22:53:37	R1801639-007 10X	Tl (351.923 nm)	-0.0028 u (ppm)	87.31	-0.0028 (ppm)	12.9005
3/6/2018 22:53:37	R1801639-007 10X	V (292.401 nm)	0.0003 (ppm)	30.91	0.0003 (ppm)	146.6817
3/6/2018 22:53:37	R1801639-007 10X	Y (360.074 nm)	1.00 (Ratio)	0.46	1.00 (Ratio)	733516.24
3/6/2018 22:53:37	R1801639-007 10X	Y_R (360.074 nm)	1.00 (Ratio)	0.46	1.00 (Ratio)	735047.69
3/6/2018 22:53:37	R1801639-007 10X	Zn (213.857 nm)	0.0010 (ppm)	12.13	0.0010 (ppm)	-1.6802
3/6/2018 22:56:57	R1801639-008 10X	Ag (328.068 nm)	-0.0002 u (ppm)	93.40	-0.0002 (ppm)	-121.7368
3/6/2018 22:56:57	R1801639-008 10X	Al (394.401 nm)	0.0290 (ppm)	3.28	0.0290 (ppm)	416.6074
3/6/2018 22:56:57	R1801639-008 10X	As (188.980 nm)	-0.0040 u (ppm)	65.64	-0.0040 (ppm)	-3.6813
3/6/2018 22:56:57	R1801639-008 10X	B (249.772 nm)	0.0053 (ppm)	3.01	0.0053 (ppm)	199.3525
3/6/2018 22:56:57	R1801639-008 10X	Be (230.424 nm)	0.0061 (ppm)	1.21	0.0061 (ppm)	177.9117
3/6/2018 22:56:57	R1801639-008 10X	Be (313.107 nm)	0.0000 (ppm)	38.56	0.0000 (ppm)	-469.5062

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 22:56:57	R1801639-008 10X	Ca (227.547 nm)	18.6514 (ppm) ↓	0.61	18.6514 (ppm)	880.9769
3/6/2018 22:56:57	R1801639-008 10X	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.1282
3/6/2018 22:56:57	R1801639-008 10X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-7.4812
3/6/2018 22:56:57	R1801639-008 10X	Cr (267.716 nm)	-0.0002 u (ppm)	22.96	-0.0002 (ppm)	-7.3400
3/6/2018 22:56:57	R1801639-008 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	22.2971
3/6/2018 22:56:57	R1801639-008 10X	Fe (234.350 nm)	0.0194 (ppm)	3.13	0.0194 (ppm)	206.7893
3/6/2018 22:56:57	R1801639-008 10X	K (766.491 nm)	0.8713 (ppm)	1.76	0.8713 (ppm)	2161.2421
3/6/2018 22:56:57	R1801639-008 10X	Mg (279.078 nm)	2.9105 (ppm)	0.33	2.9105 (ppm)	5049.7430
3/6/2018 22:56:57	R1801639-008 10X	Mn (257.610 nm)	0.0572 (ppm)	0.15	0.0572 (ppm)	15472.2666
3/6/2018 22:56:57	R1801639-008 10X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	6.4585
3/6/2018 22:56:57	R1801639-008 10X	Na (588.995 nm)	12.0104 (ppm)	0.66	12.0104 (ppm)	402352.5431
3/6/2018 22:56:57	R1801639-008 10X	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-25.0655
3/6/2018 22:56:57	R1801639-008 10X	Pb (220.353 nm)	-0.0019 u (ppm)	13.02	-0.0019 (ppm)	3.1055
3/6/2018 22:56:57	R1801639-008 10X	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	1.3695
3/6/2018 22:56:57	R1801639-008 10X	Se (196.026 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-2.7274
3/6/2018 22:56:57	R1801639-008 10X	Sn (189.925 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.7292
3/6/2018 22:56:57	R1801639-008 10X	Sr (216.596 nm)	0.1461 (ppm)	0.36	0.1461 (ppm)	1795.5046
3/6/2018 22:56:57	R1801639-008 10X	Ti (336.122 nm)	0.0003 (ppm)	28.78	0.0003 (ppm)	-518.6433
3/6/2018 22:56:57	R1801639-008 10X	Tl (351.923 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	13.5523
3/6/2018 22:56:57	R1801639-008 10X	V (292.401 nm)	0.0001 (ppm)	98.14	0.0001 (ppm)	137.8938
3/6/2018 22:56:57	R1801639-008 10X	Y (360.074 nm)	1.02 (Ratio)	0.63	1.02 (Ratio)	747505.59
3/6/2018 22:56:57	R1801639-008 10X	Y_R (360.074 nm)	1.02 (Ratio)	0.63	1.02 (Ratio)	748951.57
3/6/2018 22:56:57	R1801639-008 10X	Zn (213.857 nm)	0.0006 (ppm)	16.05	0.0006 (ppm)	-12.0709
3/6/2018 23:00:18	R1801639-009 10X	Ag (328.068 nm)	-0.0003 u (ppm)	30.90	-0.0003 (ppm)	-128.9628
3/6/2018 23:00:18	R1801639-009 10X	Al (394.401 nm)	0.0605 (ppm)	2.36	0.0605 (ppm)	743.1391
3/6/2018 23:00:18	R1801639-009 10X	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.7927
3/6/2018 23:00:18	R1801639-009 10X	B (249.772 nm)	0.0064 (ppm)	5.87	0.0064 (ppm)	224.7121
3/6/2018 23:00:18	R1801639-009 10X	Ba (230.424 nm)	0.1518 (ppm)	0.67	0.1518 (ppm)	4404.9174
3/6/2018 23:00:18	R1801639-009 10X	Be (313.107 nm)	0.0000 (ppm)	37.89	0.0000 (ppm)	-479.8395
3/6/2018 23:00:18	R1801639-009 10X	Ca (227.547 nm)	307.5906 o (ppm)	0.62	307.5906 (ppm)	14432.1158
3/6/2018 23:00:18	R1801639-009 10X	Cd (214.439 nm)	-0.0001 u (ppm)	96.70	-0.0001 (ppm)	12.4093
3/6/2018 23:00:18	R1801639-009 10X	Co (230.786 nm)	0.0006 (ppm)	65.88	0.0006 (ppm)	-3.3094
3/6/2018 23:00:18	R1801639-009 10X	Cr (267.716 nm)	-0.0004 u (ppm)	43.32	-0.0004 (ppm)	-18.1492
3/6/2018 23:00:18	R1801639-009 10X	Cu (327.395 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	26.7779
3/6/2018 23:00:18	R1801639-009 10X	Fe (234.350 nm)	1.7710 (ppm)	0.60	1.7710 (ppm)	17124.2772
3/6/2018 23:00:18	R1801639-009 10X	K (766.491 nm)	15.9368 (ppm) ↗	0.86	15.9368 (ppm)	39207.1070
3/6/2018 23:00:18	R1801639-009 10X	Mg (279.078 nm)	28.0558 (ppm)	0.58	28.0558 (ppm)	48727.3588
3/6/2018 23:00:18	R1801639-009 10X	Mn (257.610 nm)	0.1317 (ppm)	0.33	0.1317 (ppm)	35633.7500
3/6/2018 23:00:18	R1801639-009 10X	Mo (202.032 nm)	0.0008 (ppm)	16.01	0.0008 (ppm)	13.6851
3/6/2018 23:00:18	R1801639-009 10X	Na (588.995 nm)	150.8750 o (ppm)	0.80	150.8750 (ppm)	5146763.6436
3/6/2018 23:00:18	R1801639-009 10X	Ni (230.299 nm)	-0.0005 u (ppm)	67.75	-0.0005 (ppm)	-26.9783
3/6/2018 23:00:18	R1801639-009 10X	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	4.4083
3/6/2018 23:00:18	R1801639-009 10X	Sb (217.582 nm)	0.0007 (ppm)	86.13	0.0007 (ppm)	2.8876
3/6/2018 23:00:18	R1801639-009 10X	Se (196.026 nm)	0.0008 (ppm)	84.33	0.0008 (ppm)	-1.0439
3/6/2018 23:00:18	R1801639-009 10X	Sn (189.925 nm)	-0.0023 u (ppm)	15.94	-0.0023 (ppm)	-1.7670
3/6/2018 23:00:18	R1801639-009 10X	Sr (216.596 nm)	1.5298 (ppm)	0.81	1.5298 (ppm)	18829.3289
3/6/2018 23:00:18	R1801639-009 10X	Ti (336.122 nm)	0.0023 (ppm)	0.55	0.0023 (ppm)	-185.6056
3/6/2018 23:00:18	R1801639-009 10X	Tl (351.923 nm)	0.0070 (ppm)	63.10	0.0070 (ppm)	33.2361
3/6/2018 23:00:18	R1801639-009 10X	V (292.401 nm)	0.0006 (ppm)	26.37	0.0006 (ppm)	155.7895
3/6/2018 23:00:18	R1801639-009 10X	Y (360.074 nm)	0.94 (Ratio)	0.97	0.94 (Ratio)	688101.08
3/6/2018 23:00:18	R1801639-009 10X	Y_R (360.074 nm)	0.94 (Ratio)	0.96	0.94 (Ratio)	689710.63

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:00:18	R1801639-009 10X	Zn (213.857 nm)	0.0009 (ppm)	9.71	0.0009 (ppm)	-3.4643
3/6/2018 23:03:39	R1801639-012 10X	Ag (328.068 nm)	-0.0001 u (ppm)	18.88	-0.0001 (ppm)	-115.5864
3/6/2018 23:03:39	R1801639-012 10X	Al (394.401 nm)	0.0188 (ppm)	0.11	0.0188 (ppm)	310.5338
3/6/2018 23:03:39	R1801639-012 10X	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6336
3/6/2018 23:03:39	R1801639-012 10X	B (249.772 nm)	0.0096 (ppm)	1.21	0.0096 (ppm)	300.1936
3/6/2018 23:03:39	R1801639-012 10X	Ba (230.424 nm)	0.0065 (ppm)	2.74	0.0065 (ppm)	190.2278
3/6/2018 23:03:39	R1801639-012 10X	Be (313.107 nm)	0.0000 (ppm)	60.71	0.0000 (ppm)	-483.3544
3/6/2018 23:03:39	R1801639-012 10X	Ca (227.547 nm)	31.1963 (ppm)	0.88	31.1963 (ppm)	1469.3262
3/6/2018 23:03:39	R1801639-012 10X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.5867
3/6/2018 23:03:39	R1801639-012 10X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-7.6087
3/6/2018 23:03:39	R1801639-012 10X	Cr (267.716 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-7.5856
3/6/2018 23:03:39	R1801639-012 10X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	21.9379
3/6/2018 23:03:39	R1801639-012 10X	Fe (234.350 nm)	0.0148 (ppm)	1.41	0.0148 (ppm)	162.5616
3/6/2018 23:03:39	R1801639-012 10X	K (766.491 nm)	2.8519 (ppm)	0.78	2.8519 (ppm)	7031.4313
3/6/2018 23:03:39	R1801639-012 10X	Mg (279.078 nm)	5.0611 (ppm)	0.26	5.0611 (ppm)	8785.2678
3/6/2018 23:03:39	R1801639-012 10X	Mn (257.610 nm)	0.1267 (ppm)	0.30	0.1267 (ppm)	34262.1297
3/6/2018 23:03:39	R1801639-012 10X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.9999
3/6/2018 23:03:39	R1801639-012 10X	Na (588.995 nm)	23.1431 (ppm)	0.69	23.1431 (ppm)	782709.6042
3/6/2018 23:03:39	R1801639-012 10X	Ni (230.299 nm)	-0.0006 u (ppm)	88.45	-0.0006 (ppm)	-27.1972
3/6/2018 23:03:39	R1801639-012 10X	Pb (220.353 nm)	-0.0020 u (ppm)	6.29	-0.0020 (ppm)	2.8623
3/6/2018 23:03:39	R1801639-012 10X	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	1.6250
3/6/2018 23:03:39	R1801639-012 10X	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.9096
3/6/2018 23:03:39	R1801639-012 10X	Sn (189.925 nm)	-0.0020 u (ppm)	45.92	-0.0020 (ppm)	-1.4983
3/6/2018 23:03:39	R1801639-012 10X	Sr (216.596 nm)	0.2211 (ppm)	0.52	0.2211 (ppm)	2718.9297
3/6/2018 23:03:39	R1801639-012 10X	Ti (336.122 nm)	0.0002 (ppm)	33.30	0.0002 (ppm)	-549.6100
3/6/2018 23:03:39	R1801639-012 10X	Tl (351.923 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	14.4493
3/6/2018 23:03:39	R1801639-012 10X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	137.3128
3/6/2018 23:03:39	R1801639-012 10X	Y (360.074 nm)	1.01 (Ratio)	0.65	1.01 (Ratio)	740086.43
3/6/2018 23:03:39	R1801639-012 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.65	1.01 (Ratio)	741497.32
3/6/2018 23:03:39	R1801639-012 10X	Zn (213.857 nm)	0.0006 (ppm)	4.23	0.0006 (ppm)	-10.4875
3/6/2018 23:07:00	R1801639-012L 10X	Ag (328.068 nm)	-0.0001 u (ppm)	71.89	-0.0001 (ppm)	-112.3104
3/6/2018 23:07:00	R1801639-012L 10X	Al (394.401 nm)	0.0051 (ppm)	3.11	0.0051 (ppm)	168.3266
3/6/2018 23:07:00	R1801639-012L 10X	As (188.980 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-1.8607
3/6/2018 23:07:00	R1801639-012L 10X	B (249.772 nm)	0.0015 (ppm)	4.02	0.0015 (ppm)	108.8563
3/6/2018 23:07:00	R1801639-012L 10X	Ba (230.424 nm)	0.0015 (ppm)	8.78	0.0015 (ppm)	44.5166
3/6/2018 23:07:00	R1801639-012L 10X	Be (313.107 nm)	0.0000 (ppm)	21.12	0.0000 (ppm)	-466.2917
3/6/2018 23:07:00	R1801639-012L 10X	Ca (227.547 nm)	6.1291 (ppm)	1.55	6.1291 (ppm)	293.6847
3/6/2018 23:07:00	R1801639-012L 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.3487
3/6/2018 23:07:00	R1801639-012L 10X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-9.3324
3/6/2018 23:07:00	R1801639-012L 10X	Cr (267.716 nm)	-0.0002 u (ppm)	29.35	-0.0002 (ppm)	-6.9081
3/6/2018 23:07:00	R1801639-012L 10X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	19.9111
3/6/2018 23:07:00	R1801639-012L 10X	Fe (234.350 nm)	0.0030 (ppm)	11.15	0.0030 (ppm)	49.0123
3/6/2018 23:07:00	R1801639-012L 10X	K (766.491 nm)	0.5650 (ppm)	1.07	0.5650 (ppm)	1408.0654
3/6/2018 23:07:00	R1801639-012L 10X	Mg (279.078 nm)	1.0424 (ppm)	0.77	1.0424 (ppm)	1804.6967
3/6/2018 23:07:00	R1801639-012L 10X	Mn (257.610 nm)	0.0262 (ppm)	0.57	0.0262 (ppm)	7097.9898
3/6/2018 23:07:00	R1801639-012L 10X	Mo (202.032 nm)	-0.0002 u (ppm)	41.84	-0.0002 (ppm)	5.9231
3/6/2018 23:07:00	R1801639-012L 10X	Na (588.995 nm)	4.7767 (ppm)	0.88	4.7767 (ppm)	155210.0933
3/6/2018 23:07:00	R1801639-012L 10X	Ni (230.299 nm)	-0.0004 u (ppm)	78.89	-0.0004 (ppm)	-26.2817
3/6/2018 23:07:00	R1801639-012L 10X	Pb (220.353 nm)	-0.0005 u (ppm)	64.24	-0.0005 (ppm)	5.8553
3/6/2018 23:07:00	R1801639-012L 10X	Sb (217.582 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	4.0970
3/6/2018 23:07:00	R1801639-012L 10X	Se (196.026 nm)	-0.0039 u (ppm)	81.90	-0.0039 (ppm)	-4.4747

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:07:00	R1801639-012L 10X	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.1664
3/6/2018 23:07:00	R1801639-012L 10X	Sr (216.596 nm)	0.0457 (ppm)	0.71	0.0457 (ppm)	559.2242
3/6/2018 23:07:00	R1801639-012L 10X	Ti (336.122 nm)	-0.0001 u (ppm)	32.91	-0.0001 (ppm)	-600.0717
3/6/2018 23:07:00	R1801639-012L 10X	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	21.0400
3/6/2018 23:07:00	R1801639-012L 10X	V (292.401 nm)	-0.0002 u (ppm)	93.69	-0.0002 (ppm)	131.5716
3/6/2018 23:07:00	R1801639-012L 10X	Y (360.074 nm)	1.02 (Ratio)	0.97	1.02 (Ratio)	750748.48
3/6/2018 23:07:00	R1801639-012L 10X	Y_R (360.074 nm)	1.03 (Ratio)	0.97	1.03 (Ratio)	752093.03
3/6/2018 23:07:00	R1801639-012L 10X	Zn (213.857 nm)	0.0008 (ppm)	7.64	0.0008 (ppm)	-5.9346
3/6/2018 23:10:21	Continuing Calibration Verification	Ag (328.068 nm)	0.4776 (ppm)	0.47	0.4776 (ppm)	28681.3362
3/6/2018 23:10:21	Continuing Calibration Verification	Al (394.401 nm)	9.6156 (ppm)	0.47	9.6156 (ppm)	100013.7277
3/6/2018 23:10:21	Continuing Calibration Verification	As (188.980 nm)	0.9459 (ppm)	2.64	0.9459 (ppm)	694.0300
3/6/2018 23:10:21	Continuing Calibration Verification	B (249.772 nm)	2.4253 (ppm)	0.42	2.4253 (ppm)	57603.5426
3/6/2018 23:10:21	Continuing Calibration Verification	Ba (230.424 nm)	10.2144 (ppm)	0.25	10.2144 (ppm)	296239.2472
3/6/2018 23:10:21	Continuing Calibration Verification	Be (313.107 nm)	0.2520 (ppm)	0.57	0.2520 (ppm)	312503.1149
3/6/2018 23:10:21	Continuing Calibration Verification	Ca (227.547 nm)	23.8787 (ppm)	0.89	23.8787 (ppm)	1126.1342
3/6/2018 23:10:21	Continuing Calibration Verification	Cd (214.439 nm)	0.4952 (ppm)	0.53	0.4952 (ppm)	9755.2107
3/6/2018 23:10:21	Continuing Calibration Verification	Co (230.786 nm)	2.5552 (ppm)	0.43	2.5552 (ppm)	22832.7544
3/6/2018 23:10:21	Continuing Calibration Verification	Cr (267.716 nm)	0.5209 (ppm)	0.39	0.5209 (ppm)	21437.0254
3/6/2018 23:10:21	Continuing Calibration Verification	Cu (327.395 nm)	1.2204 (ppm)	0.59	1.2204 (ppm)	59593.3567
3/6/2018 23:10:21	Continuing Calibration Verification	Fe (234.350 nm)	5.0037 (ppm)	0.41	5.0037 (ppm)	48345.7841
3/6/2018 23:10:21	Continuing Calibration Verification	K (766.491 nm)	23.6526 (ppm)	0.81	23.6526 (ppm)	58180.2415
3/6/2018 23:10:21	Continuing Calibration Verification	Mg (279.078 nm)	24.7593 (ppm)	0.47	24.7593 (ppm)	43001.1994
3/6/2018 23:10:21	Continuing Calibration Verification	Mn (257.610 nm)	0.7634 (ppm)	0.42	0.7634 (ppm)	206488.9678
3/6/2018 23:10:21	Continuing Calibration Verification	Mo (202.032 nm)	2.3491 (ppm)	0.40	2.3491 (ppm)	19634.3012
3/6/2018 23:10:21	Continuing Calibration Verification	Na (588.995 nm)	24.7004 (ppm)	0.78	24.7004 (ppm)	835917.6011
3/6/2018 23:10:21	Continuing Calibration Verification	Ni (230.299 nm)	2.0342 (ppm)	0.34	2.0342 (ppm)	12458.9034
3/6/2018 23:10:21	Continuing Calibration Verification	Pb (220.353 nm)	0.4959 (ppm)	0.83	0.4959 (ppm)	957.7645
3/6/2018 23:10:21	Continuing Calibration Verification	Sb (217.582 nm)	4.8635 (ppm)	0.63	4.8635 (ppm)	5728.6064
3/6/2018 23:10:21	Continuing Calibration Verification	Se (196.026 nm)	0.4742 (ppm)	1.71	0.4742 (ppm)	343.1171
3/6/2018 23:10:21	Continuing Calibration Verification	Sn (189.925 nm)	4.9827 (ppm)	0.76	4.9827 (ppm)	5130.3694
3/6/2018 23:10:21	Continuing Calibration Verification	Sr (216.596 nm)	2.5317 (ppm)	0.37	2.5317 (ppm)	31163.0464
3/6/2018 23:10:21	Continuing Calibration Verification	Ti (336.122 nm)	2.4905 (ppm)	0.43	2.4905 (ppm)	419520.3122
3/6/2018 23:10:21	Continuing Calibration Verification	Tl (351.923 nm)	0.9908 (ppm)	1.19	0.9908 (ppm)	2080.7872
3/6/2018 23:10:21	Continuing Calibration Verification	V (292.401 nm)	2.5158 (ppm)	0.42	2.5158 (ppm)	76829.4980
3/6/2018 23:10:21	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.94	0.99 (Ratio)	725830.63
3/6/2018 23:10:21	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.94	0.99 (Ratio)	727270.37
3/6/2018 23:10:21	Continuing Calibration Verification	Zn (213.857 nm)	1.1475 Q (ppm)	0.40	1.1475 (ppm)	28770.4154 Q
3/6/2018 23:13:41	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	95.24	-0.0001 (ppm)	-117.3509
3/6/2018 23:13:41	Continuing Calibration Blank	Al (394.401 nm)	0.0037 (ppm)	27.78	0.0037 (ppm)	153.7742
3/6/2018 23:13:41	Continuing Calibration Blank	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.2735
3/6/2018 23:13:41	Continuing Calibration Blank	B (249.772 nm)	0.0023 (ppm)	29.82	0.0023 (ppm)	126.4970
3/6/2018 23:13:41	Continuing Calibration Blank	Ba (230.424 nm)	0.0029 (ppm)	7.90	0.0029 (ppm)	86.1898
3/6/2018 23:13:41	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	3.90	0.0001 (ppm)	-394.6012
3/6/2018 23:13:41	Continuing Calibration Blank	Ca (227.547 nm)	-0.0101 u (ppm)	90.65	-0.0101 (ppm)	5.7599
3/6/2018 23:13:41	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	15.3589
3/6/2018 23:13:41	Continuing Calibration Blank	Co (230.786 nm)	0.0008 (ppm)	10.46	0.0008 (ppm)	-1.4354
3/6/2018 23:13:41	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	49.55	0.0002 (ppm)	6.6579
3/6/2018 23:13:41	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	38.01	0.0003 (ppm)	32.4327
3/6/2018 23:13:41	Continuing Calibration Blank	Fe (234.350 nm)	0.0019 (ppm)	6.52	0.0019 (ppm)	37.5830
3/6/2018 23:13:41	Continuing Calibration Blank	K (766.491 nm)	0.0208 (ppm)	47.59	0.0208 (ppm)	69.8808
3/6/2018 23:13:41	Continuing Calibration Blank	Mg (279.078 nm)	0.0055 (ppm)	13.32	0.0055 (ppm)	3.5780

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:13:41	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	18.00	0.0002 (ppm)	59.3456
3/6/2018 23:13:41	Continuing Calibration Blank	Mo (202.032 nm)	0.0019 (ppm)	8.89	0.0019 (ppm)	23.1784
3/6/2018 23:13:41	Continuing Calibration Blank	Na (588.995 nm)	0.0078 (ppm)	9.10	0.0078 (ppm)	-7723.1180
3/6/2018 23:13:41	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 (ppm)	84.36	0.0004 (ppm)	-21.4948
3/6/2018 23:13:41	Continuing Calibration Blank	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	4.5923
3/6/2018 23:13:41	Continuing Calibration Blank	Sb (217.582 nm)	0.0022 (ppm)	43.27	0.0022 (ppm)	4.7588
3/6/2018 23:13:41	Continuing Calibration Blank	Se (196.026 nm)	0.0016 (ppm)	> 100.00	0.0016 (ppm)	-0.5004
3/6/2018 23:13:41	Continuing Calibration Blank	Sn (189.925 nm)	0.0027 (ppm)	51.84	0.0027 (ppm)	3.3208
3/6/2018 23:13:41	Continuing Calibration Blank	Sr (216.596 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	2.7306
3/6/2018 23:13:41	Continuing Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	0.30	0.0012 (ppm)	-373.7327
3/6/2018 23:13:41	Continuing Calibration Blank	Tl (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	17.5729
3/6/2018 23:13:41	Continuing Calibration Blank	V (292.401 nm)	0.0005 (ppm)	54.89	0.0005 (ppm)	152.0113
3/6/2018 23:13:41	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	1.21	1.02 (Ratio)	751050.67
3/6/2018 23:13:41	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	1.21	1.03 (Ratio)	752315.47
3/6/2018 23:13:41	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	21.56	0.0003 (ppm)	-19.7908
3/6/2018 23:17:02	R1801639-009 100X	Ag (328.068 nm)	-0.0003 u (ppm)	58.45	-0.0003 (ppm)	-125.2957
3/6/2018 23:17:02	R1801639-009 100X	Al (394.401 nm)	0.0162 (ppm)	5.84	0.0162 (ppm)	282.7865
3/6/2018 23:17:02	R1801639-009 100X	As (188.980 nm)	-0.0036 u (ppm)	45.11	-0.0036 (ppm)	-3.4215
3/6/2018 23:17:02	R1801639-009 100X	B (249.772 nm)	0.0009 (ppm)	31.90	0.0009 (ppm)	93.4795
3/6/2018 23:17:02	R1801639-009 100X	Ba (230.424 nm)	0.0160 (ppm)	1.06	0.0160 (ppm)	465.7761
3/6/2018 23:17:02	R1801639-009 100X	Be (313.107 nm)	0.0000 (ppm)	30.23	0.0000 (ppm)	-485.2246
3/6/2018 23:17:02	R1801639-009 100X	Ca (227.547 nm)	28.5623 (ppm)	0.38	28.5623 (ppm)	1345.7944
3/6/2018 23:17:02	R1801639-009 100X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.6871
3/6/2018 23:17:02	R1801639-009 100X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-6.5695
3/6/2018 23:17:02	R1801639-009 100X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.5157
3/6/2018 23:17:02	R1801639-009 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.4412
3/6/2018 23:17:02	R1801639-009 100X	Fe (234.350 nm)	0.1838 (ppm)	0.56	0.1838 (ppm)	1794.6237
3/6/2018 23:17:02	R1801639-009 100X	K (766.491 nm)	1.3820 (ppm)	0.81	1.3820 (ppm)	3416.8840
3/6/2018 23:17:02	R1801639-009 100X	Mg (279.078 nm)	2.8288 (ppm)	0.45	2.8288 (ppm)	4907.7309
3/6/2018 23:17:02	R1801639-009 100X	Mn (257.610 nm)	0.0136 (ppm)	0.37	0.0136 (ppm)	3690.7103
3/6/2018 23:17:02	R1801639-009 100X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	7.6404
3/6/2018 23:17:02	R1801639-009 100X	Na (588.995 nm)	15.2639 (ppm)	0.77	15.2639 (ppm)	513510.7731
3/6/2018 23:17:02	R1801639-009 100X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-23.1391
3/6/2018 23:17:02	R1801639-009 100X	Pb (220.353 nm)	-0.0020 u (ppm)	22.47	-0.0020 (ppm)	2.9860
3/6/2018 23:17:02	R1801639-009 100X	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	1.6072
3/6/2018 23:17:02	R1801639-009 100X	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.9797
3/6/2018 23:17:02	R1801639-009 100X	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.1293
3/6/2018 23:17:02	R1801639-009 100X	Sr (216.596 nm)	0.1603 (ppm)	0.36	0.1603 (ppm)	1970.1833
3/6/2018 23:17:02	R1801639-009 100X	Ti (336.122 nm)	0.0002 (ppm)	58.09	0.0002 (ppm)	-547.4064
3/6/2018 23:17:02	R1801639-009 100X	Tl (351.923 nm)	-0.0048 u (ppm)	32.99	-0.0048 (ppm)	8.7985
3/6/2018 23:17:02	R1801639-009 100X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	136.3354
3/6/2018 23:17:02	R1801639-009 100X	Y (360.074 nm)	1.01 (Ratio)	0.85	1.01 (Ratio)	740939.27
3/6/2018 23:17:02	R1801639-009 100X	Y_R (360.074 nm)	1.01 (Ratio)	0.85	1.01 (Ratio)	742255.54
3/6/2018 23:17:02	R1801639-009 100X	Zn (213.857 nm)	0.0006 (ppm)	14.42	0.0006 (ppm)	-11.6552
3/6/2018 23:20:23	R1801639-005 1000X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-115.4394
3/6/2018 23:20:23	R1801639-005 1000X	Al (394.401 nm)	0.0096 (ppm)	9.93	0.0096 (ppm)	214.8528
3/6/2018 23:20:23	R1801639-005 1000X	As (188.980 nm)	-0.0011 u (ppm)	87.74	-0.0011 (ppm)	-1.5350
3/6/2018 23:20:23	R1801639-005 1000X	B (249.772 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	73.2995
3/6/2018 23:20:23	R1801639-005 1000X	Ba (230.424 nm)	0.0003 (ppm)	27.66	0.0003 (ppm)	11.2078
3/6/2018 23:20:23	R1801639-005 1000X	Be (313.107 nm)	0.0000 (ppm)	72.56	0.0000 (ppm)	-478.2285
3/6/2018 23:20:23	R1801639-005 1000X	Ca (227.547 nm)	14.1775 (ppm)	1.42	14.1775 (ppm)	671.1516

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:20:23	R1801639-005 1000X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.6520
3/6/2018 23:20:23	R1801639-005 1000X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-8.6257
3/6/2018 23:20:23	R1801639-005 1000X	Cr (267.716 nm)	-0.0001 u (ppm)	38.38	-0.0001 (ppm)	-3.7527
3/6/2018 23:20:23	R1801639-005 1000X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.3122
3/6/2018 23:20:23	R1801639-005 1000X	Fe (234.350 nm)	0.0232 (ppm)	0.86	0.0232 (ppm)	243.6062
3/6/2018 23:20:23	R1801639-005 1000X	K (766.491 nm)	0.1477 (ppm)	5.33	0.1477 (ppm)	381.8889
3/6/2018 23:20:23	R1801639-005 1000X	Mg (279.078 nm)	0.8863 (ppm)	1.24	0.8863 (ppm)	1533.5320
3/6/2018 23:20:23	R1801639-005 1000X	Mn (257.610 nm)	0.0027 (ppm)	0.88	0.0027 (ppm)	725.4829
3/6/2018 23:20:23	R1801639-005 1000X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.9222
3/6/2018 23:20:23	R1801639-005 1000X	Na (588.995 nm)	9.6553 (ppm)	1.44	9.6553 (ppm)	321890.0209
3/6/2018 23:20:23	R1801639-005 1000X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-23.1959
3/6/2018 23:20:23	R1801639-005 1000X	Pb (220.353 nm)	-0.0015 u (ppm)	12.26	-0.0015 (ppm)	3.8902
3/6/2018 23:20:23	R1801639-005 1000X	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	1.6276
3/6/2018 23:20:23	R1801639-005 1000X	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.3373
3/6/2018 23:20:23	R1801639-005 1000X	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.2379
3/6/2018 23:20:23	R1801639-005 1000X	Sr (216.596 nm)	0.0478 (ppm)	0.68	0.0478 (ppm)	585.7030
3/6/2018 23:20:23	R1801639-005 1000X	Ti (336.122 nm)	-0.0001 u (ppm)	77.26	-0.0001 (ppm)	-589.5079
3/6/2018 23:20:23	R1801639-005 1000X	Tl (351.923 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	23.8077
3/6/2018 23:20:23	R1801639-005 1000X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	135.9960
3/6/2018 23:20:23	R1801639-005 1000X	Y (360.074 nm)	1.02 (Ratio)	1.27	1.02 (Ratio)	744789.23
3/6/2018 23:20:23	R1801639-005 1000X	Y_R (360.074 nm)	1.02 (Ratio)	1.27	1.02 (Ratio)	746016.37
3/6/2018 23:20:23	R1801639-005 1000X	Zn (213.857 nm)	0.0007 (ppm)	14.15	0.0007 (ppm)	-8.6961
3/6/2018 23:23:44	Continuing Calibration Verification	Ag (328.068 nm)	0.4760 (ppm)	0.65	0.4760 (ppm)	28587.4130
3/6/2018 23:23:44	Continuing Calibration Verification	Al (394.401 nm)	9.6235 (ppm)	0.70	9.6235 (ppm)	100095.4794
3/6/2018 23:23:44	Continuing Calibration Verification	As (188.980 nm)	0.9549 (ppm)	0.62	0.9549 (ppm)	700.6151
3/6/2018 23:23:44	Continuing Calibration Verification	B (249.772 nm)	2.4289 (ppm)	0.67	2.4289 (ppm)	57688.7090
3/6/2018 23:23:44	Continuing Calibration Verification	Ba (230.424 nm)	10.2095 (ppm)	0.73	10.2095 (ppm)	296097.2908
3/6/2018 23:23:44	Continuing Calibration Verification	Be (313.107 nm)	0.2528 (ppm)	0.72	0.2528 (ppm)	313433.0656
3/6/2018 23:23:44	Continuing Calibration Verification	Ca (227.547 nm)	23.9310 (ppm)	1.15	23.9310 (ppm)	1128.5848
3/6/2018 23:23:44	Continuing Calibration Verification	Cd (214.439 nm)	0.4951 (ppm)	0.55	0.4951 (ppm)	9753.8279
3/6/2018 23:23:44	Continuing Calibration Verification	Co (230.786 nm)	2.5581 (ppm)	0.78	2.5581 (ppm)	22858.5840
3/6/2018 23:23:44	Continuing Calibration Verification	Cr (267.716 nm)	0.5211 (ppm)	0.53	0.5211 (ppm)	21445.7859
3/6/2018 23:23:44	Continuing Calibration Verification	Cu (327.395 nm)	1.2242 (ppm)	0.83	1.2242 (ppm)	59781.6841
3/6/2018 23:23:44	Continuing Calibration Verification	Fe (234.350 nm)	5.0074 (ppm)	0.56	5.0074 (ppm)	48382.0666
3/6/2018 23:23:44	Continuing Calibration Verification	K (766.491 nm)	23.6702 (ppm)	1.00	23.6702 (ppm)	58223.6806
3/6/2018 23:23:44	Continuing Calibration Verification	Mg (279.078 nm)	24.7655 (ppm)	0.67	24.7655 (ppm)	43012.0455
3/6/2018 23:23:44	Continuing Calibration Verification	Mn (257.610 nm)	0.7634 (ppm)	0.69	0.7634 (ppm)	206473.0588
3/6/2018 23:23:44	Continuing Calibration Verification	Mo (202.032 nm)	2.3488 (ppm)	0.61	2.3488 (ppm)	19631.5522
3/6/2018 23:23:44	Continuing Calibration Verification	Na (588.995 nm)	24.7419 (ppm)	1.05	24.7419 (ppm)	837333.3354
3/6/2018 23:23:44	Continuing Calibration Verification	Ni (230.299 nm)	2.0339 (ppm)	0.63	2.0339 (ppm)	12456.6994
3/6/2018 23:23:44	Continuing Calibration Verification	Pb (220.353 nm)	0.4966 (ppm)	0.71	0.4966 (ppm)	959.2002
3/6/2018 23:23:44	Continuing Calibration Verification	Sb (217.582 nm)	4.8654 (ppm)	0.58	4.8654 (ppm)	5730.8104
3/6/2018 23:23:44	Continuing Calibration Verification	Se (196.026 nm)	0.4741 (ppm)	0.49	0.4741 (ppm)	343.0377
3/6/2018 23:23:44	Continuing Calibration Verification	Sn (189.925 nm)	4.9803 (ppm)	0.85	4.9803 (ppm)	5127.8903
3/6/2018 23:23:44	Continuing Calibration Verification	Sr (216.596 nm)	2.5337 (ppm)	0.45	2.5337 (ppm)	31187.7123
3/6/2018 23:23:44	Continuing Calibration Verification	Ti (336.122 nm)	2.4930 (ppm)	0.67	2.4930 (ppm)	419955.3295
3/6/2018 23:23:44	Continuing Calibration Verification	Tl (351.923 nm)	0.9865 (ppm)	0.67	0.9865 (ppm)	2071.9361
3/6/2018 23:23:44	Continuing Calibration Verification	V (292.401 nm)	2.5154 (ppm)	0.65	2.5154 (ppm)	76814.8261
3/6/2018 23:23:44	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	1.06	0.99 (Ratio)	726084.13
3/6/2018 23:23:44	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	1.06	0.99 (Ratio)	727371.61
3/6/2018 23:23:44	Continuing Calibration Verification	Zn (213.857 nm)	1.1469 Q (ppm)	0.70	1.1469 (ppm)	28754.5803 Q

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:27:04	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	45.75	0.0001 (ppm)	-104.8562
3/6/2018 23:27:04	Continuing Calibration Blank	Al (394.401 nm)	0.0042 (ppm)	10.10	0.0042 (ppm)	158.5374
3/6/2018 23:27:04	Continuing Calibration Blank	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.8566
3/6/2018 23:27:04	Continuing Calibration Blank	B (249.772 nm)	0.0025 (ppm)	15.20	0.0025 (ppm)	132.0107
3/6/2018 23:27:04	Continuing Calibration Blank	Ba (230.424 nm)	0.0036 (ppm)	7.31	0.0036 (ppm)	105.4929
3/6/2018 23:27:04	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	7.00	0.0001 (ppm)	-376.6363
3/6/2018 23:27:04	Continuing Calibration Blank	Ca (227.547 nm)	0.0555 (ppm)	> 100.00	0.0555 (ppm)	8.8354
3/6/2018 23:27:04	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	69.91	0.0001 (ppm)	16.6044
3/6/2018 23:27:04	Continuing Calibration Blank	Co (230.786 nm)	0.0008 (ppm)	32.91	0.0008 (ppm)	-1.2231
3/6/2018 23:27:04	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	97.98	0.0002 (ppm)	5.9245
3/6/2018 23:27:04	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	10.78	0.0003 (ppm)	31.6653
3/6/2018 23:27:04	Continuing Calibration Blank	Fe (234.350 nm)	0.0022 (ppm)	13.86	0.0022 (ppm)	40.8540
3/6/2018 23:27:04	Continuing Calibration Blank	K (766.491 nm)	0.0166 (ppm)	24.55	0.0166 (ppm)	59.4200
3/6/2018 23:27:04	Continuing Calibration Blank	Mg (279.078 nm)	0.0077 (ppm)	16.16	0.0077 (ppm)	7.4004
3/6/2018 23:27:04	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	10.71	0.0003 (ppm)	75.5877
3/6/2018 23:27:04	Continuing Calibration Blank	Mo (202.032 nm)	0.0018 (ppm)	19.94	0.0018 (ppm)	22.2089
3/6/2018 23:27:04	Continuing Calibration Blank	Na (588.995 nm)	0.0087 (ppm)	16.70	0.0087 (ppm)	-7692.8394
3/6/2018 23:27:04	Continuing Calibration Blank	Ni (230.299 nm)	0.0013 (ppm)	31.96	0.0013 (ppm)	-15.6862
3/6/2018 23:27:04	Continuing Calibration Blank	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.8402
3/6/2018 23:27:04	Continuing Calibration Blank	Sb (217.582 nm)	0.0022 (ppm)	86.12	0.0022 (ppm)	4.7071
3/6/2018 23:27:04	Continuing Calibration Blank	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-2.5854
3/6/2018 23:27:04	Continuing Calibration Blank	Sn (189.925 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	2.4360
3/6/2018 23:27:04	Continuing Calibration Blank	Sr (216.596 nm)	0.0008 (ppm)	38.70	0.0008 (ppm)	7.2157
3/6/2018 23:27:04	Continuing Calibration Blank	Ti (336.122 nm)	0.0014 (ppm)	2.61	0.0014 (ppm)	-342.8947
3/6/2018 23:27:04	Continuing Calibration Blank	Tl (351.923 nm)	0.0036 (ppm)	35.90	0.0036 (ppm)	26.2480
3/6/2018 23:27:04	Continuing Calibration Blank	V (292.401 nm)	0.0007 (ppm)	36.44	0.0007 (ppm)	158.7618
3/6/2018 23:27:04	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	1.02	1.03 (Ratio)	754141.00
3/6/2018 23:27:04	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	1.02	1.03 (Ratio)	755247.20
3/6/2018 23:27:04	Continuing Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	42.31	0.0002 (ppm)	-20.7862
3/6/2018 23:30:25	Contract Required Detection Limit	Ag (328.068 nm)	0.0097 (ppm)	1.02	0.0097 (ppm)	474.3911
3/6/2018 23:30:25	Contract Required Detection Limit	Al (394.401 nm)	0.1792 (ppm)	1.22	0.1792 (ppm)	1976.8131
3/6/2018 23:30:25	Contract Required Detection Limit	As (188.980 nm)	0.0174 (ppm)	11.68	0.0174 (ppm)	12.0751
3/6/2018 23:30:25	Contract Required Detection Limit	B (249.772 nm)	0.1968 (ppm)	0.90	0.1968 (ppm)	4740.0405
3/6/2018 23:30:25	Contract Required Detection Limit	Ba (230.424 nm)	0.2064 (ppm)	1.10	0.2064 (ppm)	5988.3702
3/6/2018 23:30:25	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	1.02	0.0049 (ppm)	5632.5577
3/6/2018 23:30:25	Contract Required Detection Limit	Ca (227.547 nm)	0.9227 (ppm)	8.08	0.9227 (ppm)	49.5071
3/6/2018 23:30:25	Contract Required Detection Limit	Cd (214.439 nm)	0.0101 (ppm)	1.24	0.0101 (ppm)	212.3060
3/6/2018 23:30:25	Contract Required Detection Limit	Co (230.786 nm)	0.0504 (ppm)	0.28	0.0504 (ppm)	442.4901
3/6/2018 23:30:25	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	0.44	0.0102 (ppm)	417.4373
3/6/2018 23:30:25	Contract Required Detection Limit	Cu (327.395 nm)	0.0244 (ppm)	1.59	0.0244 (ppm)	1209.2475
3/6/2018 23:30:25	Contract Required Detection Limit	Fe (234.350 nm)	0.1020 (ppm)	1.09	0.1020 (ppm)	1004.5273
3/6/2018 23:30:25	Contract Required Detection Limit	K (766.491 nm)	0.8890 (ppm)	1.00	0.8890 (ppm)	2204.5736
3/6/2018 23:30:25	Contract Required Detection Limit	Mg (279.078 nm)	1.0054 (ppm)	1.35	1.0054 (ppm)	1740.4678
3/6/2018 23:30:25	Contract Required Detection Limit	Mn (257.610 nm)	0.0153 (ppm)	1.18	0.0153 (ppm)	4137.4130
3/6/2018 23:30:25	Contract Required Detection Limit	Mo (202.032 nm)	0.0250 (ppm)	3.33	0.0250 (ppm)	215.8848
3/6/2018 23:30:25	Contract Required Detection Limit	Na (588.995 nm)	1.0028 (ppm)	1.10	1.0028 (ppm)	26269.5532
3/6/2018 23:30:25	Contract Required Detection Limit	Ni (230.299 nm)	0.0415 (ppm)	1.46	0.0415 (ppm)	230.6782
3/6/2018 23:30:25	Contract Required Detection Limit	Pb (220.353 nm)	0.0078 R (ppm)	11.69	0.0078 (ppm)	21.6621 R
3/6/2018 23:30:25	Contract Required Detection Limit	Sb (217.582 nm)	0.0592 (ppm)	4.91	0.0592 (ppm)	71.7961
3/6/2018 23:30:25	Contract Required Detection Limit	Se (196.026 nm)	0.0120 (ppm)	11.38	0.0120 (ppm)	7.0419
3/6/2018 23:30:25	Contract Required Detection Limit	Sn (189.925 nm)	0.4955 (ppm)	1.52	0.4955 (ppm)	510.7030

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:30:25	Contract Required Detection Limit	Sr (216.596 nm)	0.1008 (ppm)	1.68	0.1008 (ppm)	1238.1179
3/6/2018 23:30:25	Contract Required Detection Limit	Ti (336.122 nm)	0.0504 (ppm)	1.05	0.0504 (ppm)	7928.7495
3/6/2018 23:30:25	Contract Required Detection Limit	Tl (351.923 nm)	0.0171 (ppm)	8.97	0.0171 (ppm)	54.3415
3/6/2018 23:30:25	Contract Required Detection Limit	V (292.401 nm)	0.0481 (ppm)	1.68	0.0481 (ppm)	1602.4047
3/6/2018 23:30:25	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	1.36	1.03 (Ratio)	759141.39
3/6/2018 23:30:25	Contract Required Detection Limit	Y_R (360.074 nm)	1.04 (Ratio)	1.36	1.04 (Ratio)	760249.37
3/6/2018 23:30:25	Contract Required Detection Limit	Zn (213.857 nm)	0.0201 (ppm)	1.71	0.0201 (ppm)	476.4264
3/6/2018 23:33:45	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-116.4228
3/6/2018 23:33:45	Interference Check Solution A	Al (394.401 nm)	264.3239 o (ppm)	0.79	264.3239 (ppm)	2746225.5393
3/6/2018 23:33:45	Interference Check Solution A	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.4987
3/6/2018 23:33:45	Interference Check Solution A	B (249.772 nm)	0.0481 (ppm)	0.50	0.0481 (ppm)	1212.6061
3/6/2018 23:33:45	Interference Check Solution A	Ba (230.424 nm)	0.0006 (ppm)	26.19	0.0006 (ppm)	17.1497
3/6/2018 23:33:45	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	42.80	0.0000 (ppm)	-548.2543
3/6/2018 23:33:45	Interference Check Solution A	Ca (227.547 nm)	265.1679 o (ppm)	0.83	265.1679 (ppm)	12442.5063
3/6/2018 23:33:45	Interference Check Solution A	Cd (214.439 nm)	-0.0013 Ku (ppm)	15.39	-0.0013 (ppm)	-11.4990 K
3/6/2018 23:33:45	Interference Check Solution A	Co (230.786 nm)	-0.0019 u (ppm)	29.98	-0.0019 (ppm)	-25.6997
3/6/2018 23:33:45	Interference Check Solution A	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.0175
3/6/2018 23:33:45	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	18.54	0.0007 (ppm)	52.3954
3/6/2018 23:33:45	Interference Check Solution A	Fe (234.350 nm)	91.9386 o (ppm)	0.60	91.9386 (ppm)	887972.2316
3/6/2018 23:33:45	Interference Check Solution A	K (766.491 nm)	0.0867 (ppm)	18.30	0.0867 (ppm)	231.8950
3/6/2018 23:33:45	Interference Check Solution A	Mg (279.078 nm)	263.7154 o (ppm)	0.76	263.7154 (ppm)	458070.8812
3/6/2018 23:33:45	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	0.71	0.0016 (ppm)	442.8087
3/6/2018 23:33:45	Interference Check Solution A	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.3057
3/6/2018 23:33:45	Interference Check Solution A	Na (588.995 nm)	-0.0232 u (ppm)	7.29	-0.0232 (ppm)	-8783.9770
3/6/2018 23:33:45	Interference Check Solution A	Ni (230.299 nm)	-0.0023 u (ppm)	30.49	-0.0023 (ppm)	-37.7279
3/6/2018 23:33:45	Interference Check Solution A	Pb (220.353 nm)	-0.0060 Ku (ppm)	51.48	-0.0060 (ppm)	-4.7027 K
3/6/2018 23:33:45	Interference Check Solution A	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	2.8679
3/6/2018 23:33:45	Interference Check Solution A	Se (196.026 nm)	0.0039 (ppm)	> 100.00	0.0039 (ppm)	1.1750
3/6/2018 23:33:45	Interference Check Solution A	Sn (189.925 nm)	-0.0020 u (ppm)	75.72	-0.0020 (ppm)	-1.4688
3/6/2018 23:33:45	Interference Check Solution A	Sr (216.596 nm)	0.0189 (ppm)	6.22	0.0189 (ppm)	229.9037
3/6/2018 23:33:45	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	1.86	0.0018 (ppm)	-273.9598
3/6/2018 23:33:45	Interference Check Solution A	Tl (351.923 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	25.4598
3/6/2018 23:33:45	Interference Check Solution A	V (292.401 nm)	0.0033 K (ppm)	5.45	0.0033 (ppm)	236.1517 K
3/6/2018 23:33:45	Interference Check Solution A	Y (360.074 nm)	0.91 (Ratio)	1.14	0.91 (Ratio)	669345.71
3/6/2018 23:33:45	Interference Check Solution A	Y_R (360.074 nm)	0.91 (Ratio)	1.14	0.91 (Ratio)	670651.89
3/6/2018 23:33:45	Interference Check Solution A	Zn (213.857 nm)	0.0107 K (ppm)	1.24	0.0107 (ppm)	241.9838 K
3/6/2018 23:37:06	Interference Check Solution AB	Ag (328.068 nm)	0.2109 (ppm)	0.21	0.2109 (ppm)	12604.4854
3/6/2018 23:37:06	Interference Check Solution AB	Al (394.401 nm)	262.4360 o (ppm)	0.33	262.4360 (ppm)	2726612.3778
3/6/2018 23:37:06	Interference Check Solution AB	As (188.980 nm)	0.0992 (ppm)	6.03	0.0992 (ppm)	72.1066
3/6/2018 23:37:06	Interference Check Solution AB	B (249.772 nm)	0.0486 (ppm)	0.61	0.0486 (ppm)	1226.6062
3/6/2018 23:37:06	Interference Check Solution AB	Ba (230.424 nm)	0.5190 (ppm)	0.39	0.5190 (ppm)	15052.9763
3/6/2018 23:37:06	Interference Check Solution AB	Be (313.107 nm)	0.5052 (ppm)	0.33	0.5052 (ppm)	626967.4249
3/6/2018 23:37:06	Interference Check Solution AB	Ca (227.547 nm)	263.2585 o (ppm)	0.51	263.2585 (ppm)	12352.9575
3/6/2018 23:37:06	Interference Check Solution AB	Cd (214.439 nm)	0.9659 (ppm)	0.34	0.9659 (ppm)	19014.7460
3/6/2018 23:37:06	Interference Check Solution AB	Co (230.786 nm)	0.4900 (ppm)	0.28	0.4900 (ppm)	4371.7371
3/6/2018 23:37:06	Interference Check Solution AB	Cr (267.716 nm)	0.5074 (ppm)	0.37	0.5074 (ppm)	20881.9946
3/6/2018 23:37:06	Interference Check Solution AB	Cu (327.395 nm)	0.5322 (ppm)	0.47	0.5322 (ppm)	25999.4107
3/6/2018 23:37:06	Interference Check Solution AB	Fe (234.350 nm)	91.5490 o (ppm)	0.13	91.5490 (ppm)	884209.5404
3/6/2018 23:37:06	Interference Check Solution AB	K (766.491 nm)	0.0452 (ppm)	27.03	0.0452 (ppm)	129.7019
3/6/2018 23:37:06	Interference Check Solution AB	Mg (279.078 nm)	262.2627 o (ppm)	0.30	262.2627 (ppm)	455547.2925
3/6/2018 23:37:06	Interference Check Solution AB	Mn (257.610 nm)	0.4995 (ppm)	0.37	0.4995 (ppm)	135089.3942



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:37:06	Interference Check Solution AB	Mo (202.032 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	3.6125
3/6/2018 23:37:06	Interference Check Solution AB	Na (588.995 nm)	-0.0224 u (ppm)	5.96	-0.0224 (ppm)	-8757.2145
3/6/2018 23:37:06	Interference Check Solution AB	Ni (230.299 nm)	0.9537 (ppm)	0.23	0.9537 (ppm)	5828.2459
3/6/2018 23:37:06	Interference Check Solution AB	Pb (220.353 nm)	0.0469 (ppm)	1.67	0.0469 (ppm)	96.6457
3/6/2018 23:37:06	Interference Check Solution AB	Sb (217.582 nm)	0.6036 (ppm)	1.07	0.6036 (ppm)	712.8556
3/6/2018 23:37:06	Interference Check Solution AB	Se (196.026 nm)	0.0543 (ppm)	5.62	0.0543 (ppm)	37.8454
3/6/2018 23:37:06	Interference Check Solution AB	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.8679
3/6/2018 23:37:06	Interference Check Solution AB	Sr (216.596 nm)	0.0196 (ppm)	4.20	0.0196 (ppm)	238.2982
3/6/2018 23:37:06	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	4.06	0.0016 (ppm)	-307.7384
3/6/2018 23:37:06	Interference Check Solution AB	Tl (351.923 nm)	0.1142 (ppm)	2.74	0.1142 (ppm)	256.3887
3/6/2018 23:37:06	Interference Check Solution AB	V (292.401 nm)	0.5030 (ppm)	0.27	0.5030 (ppm)	15470.8896
3/6/2018 23:37:06	Interference Check Solution AB	Y (360.074 nm)	0.92 (Ratio)	0.73	0.92 (Ratio)	671525.03
3/6/2018 23:37:06	Interference Check Solution AB	Y_R (360.074 nm)	0.92 (Ratio)	0.72	0.92 (Ratio)	672819.76
3/6/2018 23:37:06	Interference Check Solution AB	Zn (213.857 nm)	1.0049 (ppm)	0.29	1.0049 (ppm)	25189.7228
3/6/2018 23:40:27	Continuing Calibration Verification	Ag (328.068 nm)	0.4761 (ppm)	0.73	0.4761 (ppm)	28589.9628
3/6/2018 23:40:27	Continuing Calibration Verification	Al (394.401 nm)	9.5960 (ppm)	0.75	9.5960 (ppm)	99809.9644
3/6/2018 23:40:27	Continuing Calibration Verification	As (188.980 nm)	0.9359 (ppm)	0.96	0.9359 (ppm)	686.7238
3/6/2018 23:40:27	Continuing Calibration Verification	B (249.772 nm)	2.4233 (ppm)	0.64	2.4233 (ppm)	57554.2747
3/6/2018 23:40:27	Continuing Calibration Verification	Ba (230.424 nm)	10.1711 (ppm)	0.75	10.1711 (ppm)	294981.5971
3/6/2018 23:40:27	Continuing Calibration Verification	Be (313.107 nm)	0.2518 (ppm)	0.77	0.2518 (ppm)	312205.5036
3/6/2018 23:40:27	Continuing Calibration Verification	Ca (227.547 nm)	23.9000 (ppm)	0.86	23.9000 (ppm)	1127.1321
3/6/2018 23:40:27	Continuing Calibration Verification	Cd (214.439 nm)	0.4932 (ppm)	0.62	0.4932 (ppm)	9716.9264
3/6/2018 23:40:27	Continuing Calibration Verification	Co (230.786 nm)	2.5452 (ppm)	0.57	2.5452 (ppm)	22743.7503
3/6/2018 23:40:27	Continuing Calibration Verification	Cr (267.716 nm)	0.5191 (ppm)	0.63	0.5191 (ppm)	21359.8853
3/6/2018 23:40:27	Continuing Calibration Verification	Cu (327.395 nm)	1.2212 (ppm)	0.76	1.2212 (ppm)	59634.0747
3/6/2018 23:40:27	Continuing Calibration Verification	Fe (234.350 nm)	5.0040 (ppm)	0.81	5.0040 (ppm)	48348.8503
3/6/2018 23:40:27	Continuing Calibration Verification	K (766.491 nm)	23.5847 (ppm)	0.76	23.5847 (ppm)	58013.3323
3/6/2018 23:40:27	Continuing Calibration Verification	Mg (279.078 nm)	24.7086 (ppm)	0.74	24.7086 (ppm)	42913.1332
3/6/2018 23:40:27	Continuing Calibration Verification	Mn (257.610 nm)	0.7602 (ppm)	0.63	0.7602 (ppm)	205617.4221
3/6/2018 23:40:27	Continuing Calibration Verification	Mo (202.032 nm)	2.3421 (ppm)	0.63	2.3421 (ppm)	19575.3841
3/6/2018 23:40:27	Continuing Calibration Verification	Na (588.995 nm)	24.5926 (ppm)	0.78	24.5926 (ppm)	832234.4729
3/6/2018 23:40:27	Continuing Calibration Verification	Ni (230.299 nm)	2.0243 (ppm)	0.70	2.0243 (ppm)	12397.8357
3/6/2018 23:40:27	Continuing Calibration Verification	Pb (220.353 nm)	0.4940 (ppm)	0.65	0.4940 (ppm)	954.1136
3/6/2018 23:40:27	Continuing Calibration Verification	Sb (217.582 nm)	4.8489 (ppm)	0.97	4.8489 (ppm)	5711.4408
3/6/2018 23:40:27	Continuing Calibration Verification	Se (196.026 nm)	0.4674 (ppm)	0.96	0.4674 (ppm)	338.1597
3/6/2018 23:40:27	Continuing Calibration Verification	Sn (189.925 nm)	4.9686 (ppm)	0.73	4.9686 (ppm)	5115.8924
3/6/2018 23:40:27	Continuing Calibration Verification	Sr (216.596 nm)	2.5219 (ppm)	0.49	2.5219 (ppm)	31042.3972
3/6/2018 23:40:27	Continuing Calibration Verification	Ti (336.122 nm)	2.4859 (ppm)	0.63	2.4859 (ppm)	418757.6998
3/6/2018 23:40:27	Continuing Calibration Verification	Tl (351.923 nm)	0.9835 (ppm)	1.30	0.9835 (ppm)	2065.6070
3/6/2018 23:40:27	Continuing Calibration Verification	V (292.401 nm)	2.5063 (ppm)	0.65	2.5063 (ppm)	76540.0349
3/6/2018 23:40:27	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	1.08	0.99 (Ratio)	728685.08
3/6/2018 23:40:27	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	1.08	1.00 (Ratio)	729828.16
3/6/2018 23:40:27	Continuing Calibration Verification	Zn (213.857 nm)	1.1431 Q (ppm)	0.77	1.1431 (ppm)	28659.7574 Q
3/6/2018 23:43:48	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-108.5111
3/6/2018 23:43:48	Continuing Calibration Blank	Al (394.401 nm)	0.0058 (ppm)	18.12	0.0058 (ppm)	175.2094
3/6/2018 23:43:48	Continuing Calibration Blank	As (188.980 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-1.7112
3/6/2018 23:43:48	Continuing Calibration Blank	B (249.772 nm)	0.0025 (ppm)	14.74	0.0025 (ppm)	132.8946
3/6/2018 23:43:48	Continuing Calibration Blank	Ba (230.424 nm)	0.0039 (ppm)	7.08	0.0039 (ppm)	115.3889
3/6/2018 23:43:48	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	9.41	0.0001 (ppm)	-360.0204
3/6/2018 23:43:48	Continuing Calibration Blank	Ca (227.547 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	6.1241
3/6/2018 23:43:48	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	56.05	0.0001 (ppm)	16.7037

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:43:48	Continuing Calibration Blank	Co (230.786 nm)	0.0010 (ppm)	11.00	0.0010 (ppm)	0.8148
3/6/2018 23:43:48	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	6.2977
3/6/2018 23:43:48	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	80.01	0.0003 (ppm)	32.2788
3/6/2018 23:43:48	Continuing Calibration Blank	Fe (234.350 nm)	0.0031 (ppm)	18.38	0.0031 (ppm)	49.7356
3/6/2018 23:43:48	Continuing Calibration Blank	K (766.491 nm)	0.0277 (ppm)	34.98	0.0277 (ppm)	86.7078
3/6/2018 23:43:48	Continuing Calibration Blank	Mg (279.078 nm)	0.0102 (ppm)	22.60	0.0102 (ppm)	11.7688
3/6/2018 23:43:48	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	8.25	0.0003 (ppm)	80.7714
3/6/2018 23:43:48	Continuing Calibration Blank	Mo (202.032 nm)	0.0020 (ppm)	13.83	0.0020 (ppm)	23.8553
3/6/2018 23:43:48	Continuing Calibration Blank	Na (588.995 nm)	0.0070 (ppm)	14.98	0.0070 (ppm)	-7750.2756
3/6/2018 23:43:48	Continuing Calibration Blank	Ni (230.299 nm)	0.0010 (ppm)	29.41	0.0010 (ppm)	-17.6421
3/6/2018 23:43:48	Continuing Calibration Blank	Pb (220.353 nm)	-0.0020 u (ppm)	36.19	-0.0020 (ppm)	3.0204
3/6/2018 23:43:48	Continuing Calibration Blank	Sb (217.582 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	4.4655
3/6/2018 23:43:48	Continuing Calibration Blank	Se (196.026 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-0.3569
3/6/2018 23:43:48	Continuing Calibration Blank	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	0.4092
3/6/2018 23:43:48	Continuing Calibration Blank	Sr (216.596 nm)	0.0010 (ppm)	6.62	0.0010 (ppm)	9.3086
3/6/2018 23:43:48	Continuing Calibration Blank	Ti (336.122 nm)	0.0015 (ppm)	3.53	0.0015 (ppm)	-330.2558
3/6/2018 23:43:48	Continuing Calibration Blank	Ti (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	19.3352
3/6/2018 23:43:48	Continuing Calibration Blank	V (292.401 nm)	0.0009 (ppm)	30.60	0.0009 (ppm)	162.8976
3/6/2018 23:43:48	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.71	1.03 (Ratio)	755997.25
3/6/2018 23:43:48	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.71	1.03 (Ratio)	756986.78
3/6/2018 23:43:48	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	19.44	0.0004 (ppm)	-15.6485
3/6/2018 23:47:08	TCLP SPIKE A	Ag (328.068 nm)	0.8113 (ppm)	1.08	0.8113 (ppm)	48794.7221
3/6/2018 23:47:08	TCLP SPIKE A	Al (394.401 nm)	0.0016 (ppm)	11.96	0.0016 (ppm)	131.2327
3/6/2018 23:47:08	TCLP SPIKE A	As (188.980 nm)	0.9420 (ppm)	2.05	0.9420 (ppm)	691.1341
3/6/2018 23:47:08	TCLP SPIKE A	B (249.772 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	76.4653
3/6/2018 23:47:08	TCLP SPIKE A	Ba (230.424 nm)	1.0284 (ppm)	1.32	1.0284 (ppm)	29826.6469
3/6/2018 23:47:08	TCLP SPIKE A	Be (313.107 nm)	0.0000 (ppm)	4.72	0.0000 (ppm)	-463.3036
3/6/2018 23:47:08	TCLP SPIKE A	Ca (227.547 nm)	-0.0956 u (ppm)	18.56	-0.0956 (ppm)	1.7491
3/6/2018 23:47:08	TCLP SPIKE A	Cd (214.439 nm)	1.0101 (ppm)	0.93	1.0101 (ppm)	19885.8832
3/6/2018 23:47:08	TCLP SPIKE A	Co (230.786 nm)	-0.0011 u (ppm)	28.37	-0.0011 (ppm)	-18.3605
3/6/2018 23:47:08	TCLP SPIKE A	Cr (267.716 nm)	1.0289 (ppm)	0.93	1.0289 (ppm)	42341.6798
3/6/2018 23:47:08	TCLP SPIKE A	Cu (327.395 nm)	0.9887 (ppm)	1.27	0.9887 (ppm)	48284.2307
3/6/2018 23:47:08	TCLP SPIKE A	Fe (234.350 nm)	0.0096 (ppm)	4.28	0.0096 (ppm)	112.6536
3/6/2018 23:47:08	TCLP SPIKE A	K (766.491 nm)	0.0047 (ppm)	93.60	0.0047 (ppm)	30.1041
3/6/2018 23:47:08	TCLP SPIKE A	Mg (279.078 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-6.7894
3/6/2018 23:47:08	TCLP SPIKE A	Mn (257.610 nm)	0.0000 (ppm)	16.83	0.0000 (ppm)	7.8133
3/6/2018 23:47:08	TCLP SPIKE A	Mo (202.032 nm)	0.0001 (ppm)	88.06	0.0001 (ppm)	8.1262
3/6/2018 23:47:08	TCLP SPIKE A	Na (588.995 nm)	-0.0019 u (ppm)	75.76	-0.0019 (ppm)	-8057.3518
3/6/2018 23:47:08	TCLP SPIKE A	Ni (230.299 nm)	1.0090 (ppm)	0.89	1.0090 (ppm)	6167.9428
3/6/2018 23:47:08	TCLP SPIKE A	Pb (220.353 nm)	1.0443 (ppm)	0.93	1.0443 (ppm)	2009.4294
3/6/2018 23:47:08	TCLP SPIKE A	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	2.3440
3/6/2018 23:47:08	TCLP SPIKE A	Se (196.026 nm)	0.9261 (ppm)	1.64	0.9261 (ppm)	671.6510
3/6/2018 23:47:08	TCLP SPIKE A	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.1399
3/6/2018 23:47:08	TCLP SPIKE A	Sr (216.596 nm)	0.0005 (ppm)	57.11	0.0005 (ppm)	3.4145
3/6/2018 23:47:08	TCLP SPIKE A	Ti (336.122 nm)	0.0003 (ppm)	43.53	0.0003 (ppm)	-533.1059
3/6/2018 23:47:08	TCLP SPIKE A	Ti (351.923 nm)	-0.0038 u (ppm)	15.62	-0.0038 (ppm)	10.7708
3/6/2018 23:47:08	TCLP SPIKE A	V (292.401 nm)	0.0001 (ppm)	18.86	0.0001 (ppm)	140.6984
3/6/2018 23:47:08	TCLP SPIKE A	Y (360.074 nm)	1.03 (Ratio)	1.23	1.03 (Ratio)	756728.03
3/6/2018 23:47:08	TCLP SPIKE A	Y_R (360.074 nm)	1.03 (Ratio)	1.23	1.03 (Ratio)	757685.02
3/6/2018 23:47:08	TCLP SPIKE A	Zn (213.857 nm)	0.9503 (ppm)	1.06	0.9503 (ppm)	23821.6191
3/6/2018 23:50:29	TCLP SPIKE L	Ag (328.068 nm)	0.8445 (ppm)	0.36	0.8445 (ppm)	50796.3654

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/6/2018 23:50:29	TCLP SPIKE L	Al (394.401 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	122.4801
3/6/2018 23:50:29	TCLP SPIKE L	As (188.980 nm)	0.9018 (ppm)	0.26	0.9018 (ppm)	661.6111
3/6/2018 23:50:29	TCLP SPIKE L	B (249.772 nm)	-0.0002 u (ppm)	50.87	-0.0002 (ppm)	67.4682
3/6/2018 23:50:29	TCLP SPIKE L	Ba (230.424 nm)	0.9856 (ppm)	0.82	0.9856 (ppm)	28585.9447
3/6/2018 23:50:29	TCLP SPIKE L	Be (313.107 nm)	0.0000 (ppm)	13.90	0.0000 (ppm)	-455.8244
3/6/2018 23:50:29	TCLP SPIKE L	Ca (227.547 nm)	-0.0532 u (ppm)	57.12	-0.0532 (ppm)	3.7374
3/6/2018 23:50:29	TCLP SPIKE L	Cd (214.439 nm)	0.9741 (ppm)	0.39	0.9741 (ppm)	19176.0584
3/6/2018 23:50:29	TCLP SPIKE L	Co (230.786 nm)	-0.0009 u (ppm)	73.90	-0.0009 (ppm)	-16.5645
3/6/2018 23:50:29	TCLP SPIKE L	Cf (267.716 nm)	0.9872 (ppm)	0.34	0.9872 (ppm)	40627.1042
3/6/2018 23:50:29	TCLP SPIKE L	Cu (327.395 nm)	0.9498 (ppm)	0.46	0.9498 (ppm)	46386.2719
3/6/2018 23:50:29	TCLP SPIKE L	Fe (234.350 nm)	0.0094 (ppm)	1.85	0.0094 (ppm)	110.8724
3/6/2018 23:50:29	TCLP SPIKE L	K (766.491 nm)	-0.0038 u (ppm)	> 100.00	-0.0038 (ppm)	9.3957
3/6/2018 23:50:29	TCLP SPIKE L	Mg (279.078 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-5.6959
3/6/2018 23:50:29	TCLP SPIKE L	Mn (257.610 nm)	0.0000 (ppm)	43.15	0.0000 (ppm)	5.7915
3/6/2018 23:50:29	TCLP SPIKE L	Mo (202.032 nm)	-0.0003 u (ppm)	96.43	-0.0003 (ppm)	4.9079
3/6/2018 23:50:29	TCLP SPIKE L	Na (588.995 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-8017.4151
3/6/2018 23:50:29	TCLP SPIKE L	Ni (230.299 nm)	0.9704 (ppm)	0.39	0.9704 (ppm)	5931.0520
3/6/2018 23:50:29	TCLP SPIKE L	Pb (220.353 nm)	1.0007 (ppm)	0.71	1.0007 (ppm)	1925.9022
3/6/2018 23:50:29	TCLP SPIKE L	Sb (217.582 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	0.6915
3/6/2018 23:50:29	TCLP SPIKE L	Se (196.026 nm)	0.8981 (ppm)	0.40	0.8981 (ppm)	651.3078
3/6/2018 23:50:29	TCLP SPIKE L	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.1871
3/6/2018 23:50:29	TCLP SPIKE L	Sr (216.596 nm)	0.0005 (ppm)	63.36	0.0005 (ppm)	3.4296
3/6/2018 23:50:29	TCLP SPIKE L	Ti (336.122 nm)	0.0001 (ppm)	10.71	0.0001 (ppm)	-559.6127
3/6/2018 23:50:29	TCLP SPIKE L	Tl (351.923 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	15.7040
3/6/2018 23:50:29	TCLP SPIKE L	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	138.0534
3/6/2018 23:50:29	TCLP SPIKE L	Y (360.074 nm)	1.04 (Ratio)	0.75	1.04 (Ratio)	761475.23
3/6/2018 23:50:29	TCLP SPIKE L	Y_R (360.074 nm)	1.04 (Ratio)	0.75	1.04 (Ratio)	762474.48
3/6/2018 23:50:29	TCLP SPIKE L	Zn (213.857 nm)	0.9113 (ppm)	0.50	0.9113 (ppm)	22841.9697

Ag (328.068 nm)  
Intensity = 60280.6947 \* Concentration - 108.6907  
Correlation coefficient: 0.99999

As (188.980 nm)  
Intensity = 734.5138 \* Concentration - 0.7415  
Correlation coefficient: 1.00000

B (249.772 nm)  
Intensity = 23720.6752 \* Concentration + 72.6967  
Correlation coefficient: 0.99999

Ba (230.424 nm)  
Intensity = 29001.9395 \* Concentration + 1.1553  
Correlation coefficient: 0.99996

Be (313.107 nm)  
Intensity = 1242054.0982 \* Concentration - 506.1143  
Correlation coefficient: 1.00000

Cd (214.439 nm)  
Intensity = 19672.5216 \* Concentration + 13.8263  
Correlation coefficient: 0.99999

Co (230.786 nm)  
Intensity = 8939.0380 \* Concentration - 8.2849  
Correlation coefficient: 0.99999

Cr (267.716 nm)  
Intensity = 41152.6803 \* Concentration - 0.6531  
Correlation coefficient: 1.00000

Cu (327.395 nm)  
Intensity = 48817.1211 \* Concentration + 18.6076  
Correlation coefficient: 0.99999

K (766.491 nm)  
Intensity = 2458.9969 \* Concentration + 18.6251  
Correlation coefficient: 0.99995

Mn (257.610 nm)  
Intensity = 270474.6955 \* Concentration + 0.3741  
Correlation coefficient: 0.99998

Mo (202.032 nm)  
Intensity = 8355.0289 \* Concentration + 7.1926  
Correlation coefficient: 1.00000

Na (588.995 nm)  
Intensity = 34165.7273 \* Concentration - 7990.8984  
Correlation coefficient: 1.00000

Ni (230.299 nm)  
Intensity = 6136.3559 \* Concentration - 23.8169  
Correlation coefficient: 0.99998

Pb (220.353 nm)  
Intensity = 1917.7528 \* Concentration + 6.7732  
Correlation coefficient: 0.99998

Sb (217.582 nm)  
Intensity = 1177.4461 \* Concentration + 2.1162  
Correlation coefficient: 1.00000

Se (196.026 nm)  
Intensity = 727.0341 \* Concentration - 1.6608  
Correlation coefficient: 0.99999

Sn (189.825 nm)  
Intensity = 1029.5238 \* Concentration + 0.5838  
Correlation coefficient: 0.99999

Ti (336.122 nm)  
Intensity = 168682.2081 \* Concentration - 576.8086  
Correlation coefficient: 1.00000

Tl (351.923 nm)  
Intensity = 2081.2773 \* Concentration + 18.7232  
Correlation coefficient: 0.99995

V (292.401 nm)  
Intensity = 30484.2591 \* Concentration + 136.1860  
Correlation coefficient: 1.00000

Zn (213.857 nm)  
Intensity = 25094.5385 \* Concentration - 26.7449  
Correlation coefficient: 1.00000

Al (394.401 nm)  
Intensity = 10389.1879 \* Concentration + 114.9746  
Correlation coefficient: 0.99991

Ca (227.547 nm)  
Intensity = 46.8996 \* Concentration + 6.2316  
Correlation coefficient: 0.99995

Fe (234.350 nm)  
Intensity = 9658.1006 \* Concentration + 19.6919  
Correlation coefficient: 0.99998

Mg (279.078 nm)  
Intensity = 1737.0109 \* Concentration - 5.8983  
Correlation coefficient: 1.00000

Sr (216.596 nm)  
Intensity = 12310.2677 \* Concentration - 2.9434  
Correlation coefficient: 0.99999

# Preparation Information Benchsheet

Prep Run#: 309408  
 Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
 Prep Method: EPA 3050B

Status: Prepped  
 Prep Date/Time: 3/5/18 04:24 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801944-01	MB		1.0g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	White-Coarse/Colorless-Clear		HB: 1 Well: F2 Temperature: 91.5C/94.0C Correction Factor: 0.0C Corr. Temp: 91.5C/94.0C
2	RQ1801944-03	MB		1.0g	6010C/Cu T, Pb T				100.00mL	White-Coarse/Colorless-Clear		
3	RQ1801944-02	LCS		1.0g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	White-Coarse/Colorless-Clear	1.0000 mL/185996; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185995; 0.1000 mL/180701	Digest on HB: 10:12 Digest off HB: 12:48
4	RQ1801944-04	LCS		1.0g	6010C/Cu T, Pb T				100.00mL	White-Coarse/Yellow-Clear	0.1000 mL/180701; 1.0000 mL/185995; 0.5000 mL/185685; 0.2000 mL/180703; 1.0000 mL/185996	
5	R1801700-001	SED SWS-1	.03	1.0g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Fine/Yellow-Clear		
6	R1801700-002	SED SWS-4	.02	1.0400g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Fine/Yellow-Clear		
7	R1801700-003	SED SWS-5	.02	1.0g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Fine/Yellow-Clear		
8	R1801700-004	SED SWS-5R	.01	1.0100g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Fine/Yellow-Clear		
9	R1801700-005	SED SWS-7	.02	1.0200g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Fine/Yellow-Clear		
10	R1801700-006	SED SWS-6	.02	1.0300g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Medium/Yellow-Clear		
11	R1801700-007	SED SWS-2	.01	1.0400g	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T				100.00mL	Brown-Fine/Yellow-Clear		

# Preparation Information Benchsheet

Prep Run#: 309408

Team: Metals/NMANSEN

Prep Workflow: MetDigSICP

Prep Method: EPA 3050B

Status: Prepped

Prep Date/Time: 3/5/18 04:24 PM

12	R1801739-001	Biosolids	.01	1.0200g	6010C/As T, Cd T, Cr T, Cu T, Mo T, Ni T, Pb T, Se T, Zn T			100.00mL	Black-Medium/Yellow-Clear		
13	R1801792-001	RR-1	.01	1.0200g	6010C/Pb T			100.00mL	Brown-Fine/Yellow-Clear		
14	R1801792-002	RR-2	.01	1.0g	6010C/Pb T			100.00mL	Brown-Fine/Yellow-Clear		
15	R1801792-003	RR-3	.01	1.0g	6010C/Pb T			100.00mL	Brown-Medium/Yellow-Clear		
16	R1801792-004	RR-4	.01	1.0100g	6010C/Pb T			100.00mL	Brown-Medium/Yellow-Clear		
17	R1801792-005	RR-5	.01	1.0400g	6010C/Pb T			100.00mL	Brown-Fine/Yellow-Clear		
18	R1801792-006	M-1	.01	1.0500g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Fine/Yellow-Clear		
19	R1801792-007	M-2	.01	1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Fine/Yellow-Clear		
20	R1801792-008	M-3	.01	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Fine/Yellow-Clear		
21	R1801792-009	M-4	.01	1.0200g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Fine/Yellow-Clear		
22	R1801804-004	TP-01 (5.0)	.01	1.0300g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Medium/Yellow-Clear		
23	RQ1801944-05	R1801804-004 MS	.01	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Medium/Yellow-Clear	1.0000 mL/185995; 0.1000 mL/180701; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185996	
24	RQ1801944-06	R1801804-004 DMS	.01	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Medium/Yellow-Clear	0.1000 mL/180701; 0.2000 mL/180703; 0.5000 mL/185685; 1.0000 mL/185995; 1.0000 mL/185996	
25	R1801804-005	TP-14 (8.5)	.01	1.0400g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T			100.00mL	Brown-Fine/Yellow-Clear		
26	R1801809-001	NMP Non Haz Waste	.02	1.0200g	6010C/Cu T, Pb T			100.00mL	Yellow-Clear/Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070250
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070250

### Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	1:1 Nitric Acid Metals Grade	M7600004S (188218)	Hot Block Cups	50 mL Lot 1707186 (185261)
Filter Paper No. 415 12.5 cm	184140 (184140)	Nitric Acid Metals Grade HNO3	M7600004S (188217)	Thermometer	294 (12954)
Hydrogen Peroxide 30% Reagent Grade H2O2	M7600002D (183458)				



# Preparation Information Benchsheet

Prep Run#: 309408  
Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
Prep Method: EPA 3050B

Status: Prepped  
Prep Date/Time: 3/5/18 04:24 PM

## Preparation Steps

Step: Digestion  
Started: 3/5/18 16:24  
Finished: 3/6/18 17:06  
By: NMANSEN  
Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/6/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAOY</u>	Date: <u>3/6/18</u>	

Date: 3/5/18

Analyst: NM

Prep Number: ICP 309408 Hg 309409

Sample	ICP (g)	Hg (g)	Sample Description
MB	1.00	0.60	W-C
LCS	1.00	0.60	W-C
R1800843-004	-	0.60	C-L
R1801688-001	-	0.62	Br-F
↓ MS	-	0.63	Br-F
↓ MSD	-	0.60	Br-F
R1801700-001	1.00	0.62	Br-F
-002	1.04	0.60	Br-F
-003	1.00	0.64	Br-F
-004	1.01	0.65	Br-F
-005	1.02	0.65	Br-F
-006	1.03	0.60	Br-M
↓ -007	1.04	0.63	Br-F
R18001339-001	1.02	0.63	Bk-M
R1800792-001	1.02	-	Br-F
-002	1.00	-	Br-F
-003	1.00	-	Br-M
-004	1.01	-	Br-M
-005	1.04	-	Br-F
-006	1.05	0.64	Br-E
-007	1.00	0.64	Br-F
-008	1.04	0.64	Br-F
-009	1.02	0.62	Br-F
<del>R1801801</del>			
R1801804-004	1.03	0.64	Br-M
↓ MS	1.04	-	Br-M
↓ MSD	1.04	-	Br-M
R1801804-005	1.04	0.63	Br-F
R1801809-001	1.02	-	Y-L
NM 3/6/18			

Color  
 Br = Brown  
 W = White  
 C = Clear Colorless  
MM 3/5/18  
 Bk = Black  
 Y = Yellow

Grain Size  
 C = Coarse  
 M = Medium  
 F = Fine  
 L = Liquid

# Preparation Information Benchsheet

Prep Run#: 309226  
 Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
 Prep Method: EPA 3005A/3010A

Status: Prepped  
 Prep Date/Time: 3/1/18 03:18 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801872-01	MB		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T, As T DOD, B T, B T DOD, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T DOD, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T, Sb T DOD, Se T, Se T DOD, Sn T, Sn T DOD, Sr T DOD, Ti T DOD, Ti T, Ti T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear		HB: 7 Well: A4 Temperature: 92.5C Correction Factor: 0.0C Corr. Temp: 92.5C  Plunge Filtered
2	RQ1801872-02	LCS		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T, As T DOD, B T, B T DOD, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T DOD, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T, Sb T DOD, Se T, Se T DOD, Sn T, Sn T DOD, Sr T DOD, Ti T DOD, Ti T, Ti T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/185995; 0.2500 mL/185685; 0.5000 mL/185996 .	pH Started: 15:07 Digest on HB: 15:40 HB Shutoff: 01:40 3/2/18  Plunge Filtered
3	RQ1801872-05	MDLV		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T, As T DOD, B T, B T DOD, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T DOD, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T, Sb T DOD, Se T, Se T DOD, Sn T, Sn T DOD, Sr T DOD, Ti T DOD, Ti T, Ti T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309226

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/1/18 03:18 PM

4	RQ1801872-06	MDLV		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T, As T DOD, B T, B T DOD, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T DOD, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T, Sb T DOD, Se T, Se T DOD, Sn T, Sn T DOD, Sr T DOD, Ti T DOD, Ti T, Ti T DOD, V T, V T DOD, Zn T, Zn T DOD	<2		50.00mL	Colorless-Clear		
5	R1800843-001	ICP#6 Water LODv	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, B T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Mo T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Sn T DOD, Sr T DOD, Ti T DOD, Ti T DOD, V T DOD, Zn T DOD	<2		50.00mL	Colorless-Clear		
6	R1801557-001	40% Whey	.09	5mL	6010C/K T	<2		50.00mL	Yellow-Cloudy/Yellow-Cloudy		Plunge Filtered
7	R1801639-001	SCA-0258-01	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T	<2		50.00mL	Colorless-Clear		
8	R1801639-002	SCA-0258-02	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T	<2		50.00mL	Colorless-Clear		
9	R1801639-003	SCA-0258-03,04,05	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T	<2		50.00mL	Colorless-Clear		
10	RQ1801872-03	R1801639-003 MS	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.1000 mL/180703; 0.2500 mL/185685; 0.0500 mL/180701; 0.5000 mL/185995; 0.5000 mL/185996	
11	RQ1801872-04	R1801639-003 DMS	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/185996; 0.2500 mL/185685; 0.5000 mL/185995	

# Preparation Information Benchsheet

Prep Run#: 309226

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/1/18 03:18 PM

12	R1801639-004	SCA-0258-06	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R1801639-005	SCA-0258-07	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R1801639-007	SCA-0259-01	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R1801639-008	SCA-0259-02	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R1801639-009	SCA-0259-03	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R1801639-010	SCA-0259-04	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R1801639-011	SCA-0259-05	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
19	R1801639-012	SCA-0259-06	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1801639-013	SCA-0259-07	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1801639-014	SCA-0259-08	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

**Spiking Solutions**

Name: Selenium 1000 ug/mL Se

Inventory ID 180701

Logbook Ref: M7080014F

Expires On: 10/12/2018

Lot #: 1635013

# Preparation Information Benchsheet

Prep Run#: 309226

Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/1/18 03:18 PM

Name: Strontium 1000 ug/mL Sr

Inventory ID 180703

Logbook Ref: M7080014G

Expires On: 10/12/2018

Lot #: 1610313

Name: Tin 1000 ug/mL Sn

Inventory ID 185685

Logbook Ref: M7600003U

Expires On: 05/31/2019

Lot #: 1713622

Name: Custom LCS STD A Metals

Inventory ID 185995

Logbook Ref: M7600003Y

Expires On: 05/20/2019

Lot #: 10070256

Name: Custom LCS STD B Metals

Inventory ID 185996

Logbook Ref: M7600003Z

Expires On: 05/20/2019

Lot #: 10070256

## Preparation Materials

1:1 HCl Metals Grade

M7600004D (187996)

Hot Block Cups

50 mL Lot 1707186 (185261)

Nitric Acid Metals Grade HNO3 M7600004S (188217)

Plunger Filter

185260 (185260)

Thermometer

293 (12952)

## Preparation Steps

Step: Digestion

Started: 3/1/18 15:18

Finished: 3/2/18 18:21

By: NMANSEN

Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Chain of Custody

Relinquished By:

*Wool*  
*RAOI*

Date:

3/2/18

Extracts Examined

Received By:

*RAOI*

Date:

3/2/18

Yes

No

# Preparation Information Benchsheet

Prep Run#: 309352  
 Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
 Prep Method: EPA 200.2

Status: Prepped  
 Prep Date/Time: 3/5/18 11:31 AM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801925-01	MB		10mL	200.7/Ag T, Al D, Al T, As T, Ba T, Ca T, Co T, Cr T, Cu D, Cu T, Fe T, Mg T, Mo T, Na T, Ni T, Pb T, Sn T, Ti T, Zn T	<2			10.00mL	Colorless-Clear		HB: 9 Well: E5 Temperature: 92.3C/94.1C Correction Factor: 0.0C Corr. Temp: 92.3C/94.1C
2	RQ1801925-03	MB		10mL	200.7/Pd T, WT	<2			10.00mL	Colorless-Clear		
3	RQ1801925-02	LCS		10mL	200.7/Ag T, Al D, Al T, As T, Ba T, Ca T, Co T, Cr T, Cu D, Cu T, Fe T, Mg T, Mo T, Na T, Ni T, Pb T, Sn T, Ti T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185996; 0.0100 mL/180701; 0.0500 mL/185685; 0.1000 mL/185995	pH Started: 11:55 Digest on HB: 12:30 Digest off HB: 14:30
4	RQ1801925-04	LCS		10mL	200.7/Pd T, WT	<2			10.00mL	Colorless-Clear	0.0200 mL/186800; 0.0200 mL/186805	
5	R1801643-001	STE-02192018-7 DAY	.01	10mL	200.7/Ba T	<2			10.00mL	Colorless-Clear		
6	R1801643-002	TKP-02192018-7 DAY	.01	10mL	200.7/Ba T	<2			10.00mL	Colorless-Clear		
7	R1801707-001	Outfall 013 Comp	.01	10mL	200.7/Fe T	<2			10.00mL	Colorless-Clear		
8	R1801710-002	2018000493 W001-4HR-WA-022718	.04	10mL	200.7/Al T	<2			10.00mL	Colorless-Clear		
9	R1801711-001	AA1800117 E001-24HR-WA-022718	.03	10mL	200.7/Al T	<2			10.00mL	Colorless-Clear		
10	R1801713-001	020 Comp	.06	10mL	200.7/Co T, Cr T, Cu T, Fe T, Zn T	<2			10.00mL	Colorless-Clear		
11	R1801713-002	020 Sol Met	.01	10mL	200.7/Cu D	<2			10.00mL	Colorless-Clear		
12	R1801713-005	RIV	.05	10mL	200.7/Zn T	<2			10.00mL	Colorless-Clear		
13	R1801719-002	STE-02272018-24 HR	.07	10mL	200.7/Ag T, Al T, Ba T, Cr T, Fe T, Ni T, Zn T	<2			10.00mL	Colorless-Clear		
14	RQ1801925-07	R1801719-002 MS	.07	10mL	200.7/Ag T, Al T, Ba T, Cr T, Fe T, Ni T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185996; 0.0500 mL/185685; 0.1000 mL/185995; 0.0100 mL/180701	
15	RQ1801925-08	R1801719-002 DMS	.07	10mL	200.7/Ag T, Al T, Ba T, Cr T, Fe T, Ni T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185995; 0.0100 mL/180701; 0.1000 mL/185996; 0.0500 mL/185685	
16	R1801728-001	B731 022818 0853	.01	10mL	200.7/Cu T, Pb T, Zn T	<2			10.00mL	Colorless-Clear		
17	R1801770-001	Effluent Grab Milton	.01	10mL	200.7/Al D	<2			10.00mL	Colorless-Clear		
18	R1801770-002	Effluent Grab Lake	.01	10mL	200.7/Al D	<2			10.00mL	Colorless-Clear		
19	R1801777-001	020 Comp	.06	10mL	200.7/Co T, Cr T, Cu T, Fe T, Zn T	<2			10.00mL	Colorless-Clear		
20	RQ1801925-05	R1801777-001 MS	.06	10mL	200.7/Co T, Cr T, Cu T, Fe T, Zn T	<2			10.00mL	Colorless-Clear	0.0100 mL/180701; 0.1000 mL/185996; 0.0500 mL/185685; 0.1000 mL/185995	
21	RQ1801925-06	R1801777-001 DMS	.06	10mL	200.7/Co T, Cr T, Cu T, Fe T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185995; 0.1000 mL/185996; 0.0500 mL/185685; 0.0100 mL/180701	
22	R1801777-002	020 Sol Met	.01	10mL	200.7/Cu D	<2			10.00mL	Colorless-Clear		
23	R1801777-005	RIV	.05	10mL	200.7/Zn T	<2			10.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309352

Prep WorkFlow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 200.2

Prep Date/Time: 3/5/18 11:31 AM

24	R1801789-001	EFF-022818	.01	10mL	200.7/Ca T, Fe T, Mg T	<2		10.00mL	Colorless-Clear		
25	R1801789-002	INF-022818	.01	10mL	200.7/Ca T, Fe T, Mg T	<2		10.00mL	Colorless-Clear		
26	R1801795-002	Screenhouse 001R	.03	10mL	200.7/Na T	<2		10.00mL	Colorless-Clear		
27	R1801803-001	Effluent	.04	10mL	200.7/Cu T	<2		10.00mL	Colorless-Clear		
28	R1801805-001	B325 Final Eff 24 Hour Comp	.01	10mL	200.7/Al T, As T, Co T, Cr T, Cu T, Mo T, Pb T, Pd T, Sn T, Ti T, W T, Zn T	<2		10.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	10070256
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	10070256
Name: Palladium 1000 ug/mL Pd	Inventory ID	186800	Logbook Ref:	M7600004J	Expires On:	06/30/2019	Lot #:	1733335
Name: Tungsten 1000 ug/mL W	Inventory ID	186805	Logbook Ref:	M7600004N	Expires On:	06/30/2019	Lot #:	172821

### Preparation Materials

1:1 HCl Metals Grade      M7600004D (187996)      1:1 Nitric Acid Metals Grade      M7600004S (188218)      Hot Block Cups      10 mL Lot P7202846 (188215)  
 Thermometer      401 (182586)

### Preparation Steps

Step: Digestion  
 Started: 3/5/18 11:31  
 Finished: 3/5/18 17:10  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u><i>[Signature]</i></u>	Date: <u>3/5/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAOI</u>	Date: <u>3/5/18</u>	



OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)  
 (ICV FOR ILM5.3 IS A 1/2 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600003A	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600003B	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600003C	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600002R	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600002Q	1000	1.00		5.00
	B	M7600003I	1000	0.500		2.50
	MO	M7600003J	1000	0.500		2.50
	TI	M7600003K	1000	0.500		2.50
	SR	M7600002S	1000	0.500		2.50
	P	-	1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
NM 1/29/18	A	M7600003T 10%	M7600004D 5%	M34
NM 1/30/18	B	M7600003T 2%	M7600004D 5%	M34
NM 1/31/18	C	M7600003T 10%	M7600004D 5%	M34
NM 2/2/18	D	M7600003T 2%	M7600004D 5%	M34
NM 2/6/18	E	M7600003T 10%	M7600004D 5%	M34
NM 2/6/18	F	M7600003T 2%	M7600004D 5%	M34
NM 2/7/18	G	M7600003T 10%	M7600004D 5%	M34
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	M34
NM 2/12/18	I	M7600003T 2%	M7600004D 5%	M34
NM 2/13/18	J	M7600003T 10%	M7600004D 5%	M34
NM 2/14/18	K	M7600003T 10%	M7600004D 5%	M34
CK 2/15/18	L	M7600003T 2%	M7600004D 5%	M34
CK 2/15/18	M	M7600003T 10%	M7600004D 5%	M34
CK 2/16/18	N	M7600003T 10%	M7600004D 5%	M34
NM 2/18/18	O	M7600003T 2%	M7600004D 5%	M34
NM 2/20/18	P	M7600003T 10%	M7600004D 5%	M34
NM 2/21/18	Q	M7600003T 10%	M7600004D 5%	M34
NM 2/22/18	R	M7600003T 2%	M7600004D 5%	M34
NM 2/23/18	S	M7600003T 10%	M7600004D 5%	M34
NM 2/26/18	T	M7600003T 2%	M7600004D 5%	M34
NM 2/27/18	U	M7600003T 2%	M7600004D 5%	M34
NM 2/27/18	V	M7600003T 10%	M7600004D 5%	M34
NM 2/28/18	W	M7600003T 10%	M7600004D 5%	M34
NM 3/1/18	X	M7600003T 10%	M7600004D 5%	M34
CK 3/2/18	Y	M7600003T 10%	M7600004D 5%	M34
NM 3/2/18	Z	M7600003T 2%	M7600004D 5%	M34
CK 3/6/18	AA	M7600003T 2%	M7600004D 5%	M34
CK 3/6/18	BB	M7600003T 10%	M7600004D 5%	M34

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. 1 Int.	AL	M7620002D	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	M708001ZE	5000	0.100		BELOW
	K		5000			0.500
	MG		5000			0.500
	NA		5000			0.020
Single Element	BA	M708001HBB	1000	0.020		0.010
	CU	M7600001A	1000	0.010		2.00
	K	M7080014AA	10000	0.150		0.010
	MN	M7080011R	1000	0.010		0.025
	MO	M7600002V	1000	0.025		0.010
	SB	M7600001G	1000	0.010		0.010
	TL	M7600001N	1000	0.010		0.010
	ZN	M7600003V	1000	0.010		0.100
	P	-	1000	0.100		

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 2/12/18	A	M76000003T 2%	M76000004D 5%	2/19/18	M34M25
NM 2/12/18	B	M76000003T 10%	M76000004D 5%	2/19/18	M34 M25
NM 2/20/18	C	M76000003T 2%	M76000004D 5%	2/27/18	M34 M25
NM 2/20/18	D	M76000003T 10%	M76000004D 5%	2/27/18	M34 M25
NM 2/28/18	E	M76000003T 2%	M76000004D 5%	3/7/18	M25 M34
NM 2/28/18	F	M76000003T 10%	M76000004D 5%	3/7/18	M25 M34
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3/4/5/6 HLCCV3**

(Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M7080004Y	10000	2.00	100	200
	CU	M7600001A	1000	0.40		4.00
	FE	M7600001C	10000	0.40		40.0
	K	M7080004AA	10000	1.00		100
	TL	M7600001N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 11/8/17	A	M7600002W 2%	M7600003D 5%	11/22/17	M35
NM 11/8/17	B	M7600002W 10%	M7600003D 5%	11/22/17	M35
NM 11/22/17	C	M7600002W 2%	M7600003D 5%	12/6/17	M35
NM 11/22/17	D	M7600002W 10%	M7600003D 5%	12/6/17	M35
NM 12/7/17	E	M7600003T 2%	M7600003D 5%	12/21/17	M35
NM 12/7/17	F	M7600003T 10%	M7600003D 5%	12/21/17	M35
NM 12/27/17	G	M7600003T 2%	M7600003D 5%	1/10/18	M35
NM 12/27/17	H	M7600003T 10%	M7600003D 5%	1/10/18	M35
NM 1/11/18	I	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	J	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/25/18	K	M7600003T 2%	M7600003D <sup>4D</sup> 5%	2/9/18	M34
NM 1/25/18	L	M7600003T 10%	M7600003D <sup>4D</sup> 5%	2/9/18	M34
NM 2/12/18	M	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	N	M7600003T 10%	M7600004D 5%	2/26/18	M34
NM 2/27/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
NM 2/27/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
	Q				
	R				
	S				

OPTIMA 3/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	M7600001R	2000	2.00		40.0
	BA		2000			1.00
	BE		50			10.0
	CO, V		500			5.00
	CU		250			Below
	FE		1000			4.00
Cal Std 4	AS, TL	M7600003G	100	4.00		2.00
	CD, SE		50			Below
	PB		50			10.0
Single Metals	B	M7080012Z	1000	1.00		10.0
	MO	M7600002V	1000	1.00		10.0
	TI	M7080013R	1000	1.00		10.0
	SR	M7080014G	1000	1.00		10.0
	CA	M7080014X	10000	2.50		250
	MG	M7600002H	10000	5.00		500
	NA	M7080014Z	10000	1.50		150
	CR	M7080012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M7600002G	10000	4.60		500
	MN	M7080011R	1000	0.700		10.00
	PB	M7080011S	1000	0.800		10.0
	K	M7080014AA	10000	1.50		150

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 1/11/18	A	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	B	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/26/18	C	M7600003T 2%	M7600004D 5%	2/9/18	M34
NM 1/26/18	D	M7600003T 10%	M7600004D 5%	2/9/18	M34
NM 2/12/18	E	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	F	M7600003T 10%	M7600004D 5%	2/26/18	M34
NM 2/27/18	G	M7600003T 2%	M7600004D 5%	3/13/18	M34
NM 2/27/18	H	M7600003T 10%	M7600004D 5%	3/13/18	M34
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

**OPTIMA 3,4,5,6 CALIBRATION STANDARD #2**  
 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M7600001J	1000	0.100	1000	0.100
	AS	M7080011X	1000	0.010		0.010
	B	M7080012Z	1000	0.200		0.200
	BE	M7080012V (1/10)	100	0.030		0.003
	CA	M7080014Y	10000	0.100		1.00
	CD	M7080010N (1/10)	100	0.050		0.005
	CU	M7600001A	1000	0.020		0.020
	K	M7080014AA	10000	0.200		2.00
	MG	M7600002H	10000	0.100		1.00
	NA	M7080014Z	10000	0.100		1.00
	PB	M7080011S	1000	0.050		0.050
	SB	M7600001G	1000	0.060		0.060
	SE	M7080014F	1000	0.010		0.010
	SN	M7600003U	1000	0.500		0.500

Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 1/12/18	A	M7600003T 2%	M7600003D 5%	1/19/18	M34 M25
NM 1/12/18	B	M7600003T 10%	M7600003D 5%	1/19/18	M34 M25
NM 1/23/18	C	M7600003T 2%	M7600003D 5%	1/30/18	M34 M25
NM 1/23/18	D	M7600003T 10%	M7600003D 5%	1/30/18	M34 M25
NM 1/31/18	E	M7600003T 2%	M7600003D 5%	2/7/18	M34 M25
NM 1/31/18	F	M7600003T 10%	M7600003D 5%	2/7/18	M34 M25
NM 2/6/18	G	M7600003T 2%	M7600004D 5%	2/15/18	M34 M25
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	2/15/18	M34 M25
NM 2/19/18	I	M7600003T 2%	M7600004D 5%	2/26/18	M34 M25
NM 2/19/18	J	M7600003T 10%	M7600004D 5%	2/26/18	M34 M25
NM 2/27/18	K	M7600003T 2%	M7600004D 5%	3/6/18	M34 M25
NM 2/27/18	L	M7600003T 10%	M7600004D 5%	3/6/18	M34 M25
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)**  
**(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)**  
**(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)**

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M7600004B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	M7600003G	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M7080014Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M7080014AA	10000	1.00		50.0
	NA	M7080014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600003U	1000	2.00		10.0
	B	M7080012Z	1000	1.00		5.00
	MO	M7600002V	1000	1.00		5.00
	TI	M7080013R	1000	1.00		5.00
SR	M7080014G	1000	1.00		5.00	

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 1/4/18	A	M7600003T 2%	M7600003D 5%	1/11/18	M34
NM 1/4/18	B	M7600003T 10%	M7600003D 5%	1/11/18	M34
NM 1/12/18	C	M7600003T 2%	M7600003D 5%	1/19/18	M34
NM 1/12/18	D	M7600003T 10%	M7600003D 5%	1/19/18	M34
NM 1/23/18	E	M7600003T 2%	M7600003D 5%	1/30/18	M34
NM 1/23/18	F	M7600003T 10%	M7600003D 5%	1/30/18	M34
NM 1/30/18	G	M7600003T 2%	M7600004D 5%	2/6/18	M34
NM 1/30/18	H	M7600003T 10%	M7600004D 5%	2/6/18	M34
NM 2/7/18	I	M7600003T 2%	M7600004D 5%	2/14/18	M34
NM 2/7/18	J	M7600003T 10%	M7600004D 5%	2/14/18	M34
CK 2/15/18	K	M7600003T 2%	M7600004D 5%	2/22/18	M34
CK 2/15/18	L	M7600003T 10%	M7600004D 5%	2/22/18	M34
NM 2/23/18	M	M7600003T 2%	M7600004D 5%	3/2/18	M34
NM 2/23/18	N	M7600003T 10%	M7600004D 5%	3/2/18	M34
CK 3/16/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
CK 3/16/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7080013X	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M7600002L	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M7600001R	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M7600001I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M7080012Z	1000	0.200		0.200
	MO	M7600002V	1000	0.025		0.0250
	SN	M7600002T	1000	0.500		0.500
	TI	M7080013R	1000	0.050		0.0500
	SB	M7600001G	1000	0.060		0.0600
	SR	M7080014G	1000	0.100		0.100
	P	-	1000	0.100		0.100

Analyst/Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/22/17	A	M7600002W 2%	M7600003D 5%	5/22/18	M25/M35
NM 11/22/17	B	M7600002W 10%	M7600003D 5%	5/22/18	M25/M35
NM 7/29/18	C	M7600002W 10%	M7600008S 5%	7/29/18	M25/M35
	D		4D		
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

NM 7/29/18

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M7600002W 10%	M7600002I 5%	4/13/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

✓ 11/30/17



OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M7080013Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/9/17	A	M7600002W 10%	M7600003D 5%	5/9/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
NM 7/29/18	D	M7600003T 2%	M7600004D 5%	7/29/18	Volumetric
NM 7/29/18	E	M7600003T 10%	M7600004D 5%	7/29/18	Volumetric
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

NM 7/29/18

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	M7600003F	10000	2.0	2000	10.0	5% HCl 2% HNO3	NM 11/9/17	A	M7600002W	M7600003D	5/9/18	M35
CS	M7600003E	10000	2.0		10.0		NM 11/27/17	B	M7600002W	M7600003D	5/27/18	M35
							NM 11/28/17	C	M7600002W	M7600003D	5/28/18	M35
							NM 11/30/17	D	M7600003T	M7600003D	5/30/18	M35
							NM 12/8/17	E	M7600003T	M7600003D	6/8/18	M35
							NM 12/15/17	F	M7600003T	M7600003D	6/15/18	M35
							NM 12/28/17	G	M7600003T	M7600003D	6/28/18	M35
							NM 1/15/18	H	M7600003T	M7600003D	7/15/18	M34
							NM 1/29/18	I	M7600003T	M7600004D	7/29/18	M34
							NM 2/13/18	J	M7600003T	M7600004D	8/13/18	M34
							NM 2/20/18	K	M7600003T	M7600004D	8/20/18	M34
							OK 3/6/18	L	M7600003T	M7600004D	9/6/18	M34
								M				
								N				
							O					
							P					
							Q					
							R					
							S					
							T					
							V					

## Sample Dilutions

Analyst: NM  
Instrument: ICPG

Date 3/6/18  
Analysis 6010C/200.7

### Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/10	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/10	1	9	1/1000	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/10	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000

### Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709

Method/Testcode: 6010C/AIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801944-01	Aluminum, Total	MB		Soil	0.00 ppm	1.0 g	10 mg/Kg U	1	9	10			3/6/18 19:52:50	N	IV
RQ1801944-01	Antimony, Total	MB		Soil	0.00 ppm	1.0 g	6.0 mg/Kg U	1	1.0	6.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Arsenic, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.3	1.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Barium, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.08	2.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Beryllium, Total	MB		Soil	0.00 ppm	1.0 g	0.30 mg/Kg U	1	0.04	0.30			3/6/18 19:52:50	N	IV
RQ1801944-01	Boron, Total	MB		Soil	0.00 ppm	1.0 g	20 mg/Kg U	1	9	20			3/6/18 19:52:50	N	IV
RQ1801944-01	Cadmium, Total	MB		Soil	0.00 ppm	1.0 g	0.03 mg/Kg J	1	0.02	0.50			3/6/18 19:52:50	N	IV
RQ1801944-01	Calcium, Total	MB		Soil	0.06 ppm	1.0 g	6 mg/Kg J	1	6	100			3/6/18 19:52:50	N	IV
RQ1801944-01	Chromium, Total	MB		Soil	0.00 ppm	1.0 g	0.2 mg/Kg J	1	0.10	1.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Cobalt, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.4	5.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Copper, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.5	2.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Iron, Total	MB		Soil	0.01 ppm	1.0 g	12 mg/Kg U	1	11	12			3/6/18 19:52:50	N	IV
RQ1801944-01	Lead, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.2	5.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Magnesium, Total	MB		Soil	0.01 ppm	1.0 g	100 mg/Kg U	1	20	100			3/6/18 19:52:50	N	IV
RQ1801944-01	Manganese, Total	MB		Soil	0.00 ppm	1.0 g	2.0 mg/Kg U	1	1.0	2.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Molybdenum, Total	MB		Soil	0.00 ppm	1.0 g	2.5 mg/Kg U	1	0.7	2.5			3/6/18 19:52:50	N	IV
RQ1801944-01	Nickel, Total	MB		Soil	0.00 ppm	1.0 g	4.0 mg/Kg U	1	0.7	4.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Potassium, Total	MB		Soil	0.02 ppm	1.0 g	200 mg/Kg U	1	20	200			3/6/18 19:52:50	N	IV
RQ1801944-01	Selenium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.4	1.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Silver, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.07	1.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Sodium, Total	MB		Soil	0.04 ppm	1.0 g	100 mg/Kg U	1	70	100			3/6/18 19:52:50	N	IV
RQ1801944-01	Thallium, Total	MB		Soil	0.00 ppm	1.0 g	1.0 mg/Kg U	1	0.6	1.0			3/6/18 19:52:50	N	IV
RQ1801944-01	Vanadium, Total	MB		Soil	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.7	5.0			3/6/18 19:52:50	N	IV
RQ1801944-03	Copper, Total	MB		NonAq Liquid	0.00 ppm	1.0 g	2.0 mg/Kg U	1	0.2	2.0			3/6/18 19:52:50	N	II
RQ1801944-03	Lead, Total	MB		NonAq Liquid	0.00 ppm	1.0 g	5.0 mg/Kg U	1	0.3	5.0			3/6/18 19:52:50	N	II
RQ1801944-02	Aluminum, Total	LCS		Soil	1.85 ppm	1.0 g	185 mg/Kg	1	9	10	93		3/6/18 19:56:10	N	IV
RQ1801944-02	Antimony, Total	LCS		Soil	0.46 ppm	1.0 g	45.5 mg/Kg	1	1.0	6.0	91		3/6/18 19:56:10	N	IV
RQ1801944-02	Arsenic, Total	LCS		Soil	0.04 ppm	1.0 g	3.67 mg/Kg	1	0.3	1.0	92		3/6/18 19:56:10	N	IV
RQ1801944-02	Barium, Total	LCS		Soil	2.09 ppm	1.0 g	209 mg/Kg	1	0.08	2.0	104		3/6/18 19:56:10	N	IV
RQ1801944-02	Beryllium, Total	LCS		Soil	0.05 ppm	1.0 g	4.83 mg/Kg	1	0.04	0.30	97		3/6/18 19:56:10	N	IV
RQ1801944-02	Boron, Total	LCS		Soil	0.93 ppm	1.0 g	92.7 mg/Kg	1	9	20	93		3/6/18 19:56:10	N	IV
RQ1801944-02	Cadmium, Total	LCS		Soil	0.05 ppm	1.0 g	5.19 mg/Kg	1	0.02	0.50	104		3/6/18 19:56:10	N	IV
RQ1801944-02	Calcium, Total	LCS		Soil	1.94 ppm	1.0 g	194 mg/Kg	1	6	100	97		3/6/18 19:56:10	N	IV
RQ1801944-02	Chromium, Total	LCS		Soil	0.21 ppm	1.0 g	20.9 mg/Kg	1	0.10	1.0	104		3/6/18 19:56:10	N	IV
RQ1801944-02	Cobalt, Total	LCS		Soil	0.52 ppm	1.0 g	51.6 mg/Kg	1	0.4	5.0	103		3/6/18 19:56:10	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709

Method/Testcode: 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1801944-02	Copper, Total	LCS		Soil	0.25 ppm	1.0 g	24.8 mg/Kg	1	0.5	2.0	99		3/6/18 19:56:10	N	IV
2Q1801944-02	Iron, Total	LCS		Soil	1.01 ppm	1.0 g	101 mg/Kg	1	11	12	101		3/6/18 19:56:10	N	IV
2Q1801944-02	Lead, Total	LCS		Soil	0.51 ppm	1.0 g	50.9 mg/Kg	1	0.2	5.0	102		3/6/18 19:56:10	N	IV
2Q1801944-02	Magnesium, Total	LCS		Soil	1.97 ppm	1.0 g	197 mg/Kg	1	20	100	99		3/6/18 19:56:10	N	IV
2Q1801944-02	Manganese, Total	LCS		Soil	0.51 ppm	1.0 g	50.7 mg/Kg	1	1.0	2.0	101		3/6/18 19:56:10	N	IV
2Q1801944-02	Molybdenum, Total	LCS		Soil	0.49 ppm	1.0 g	49.3 mg/Kg	1	0.7	2.5	99		3/6/18 19:56:10	N	IV
2Q1801944-02	Nickel, Total	LCS		Soil	0.50 ppm	1.0 g	50.1 mg/Kg	1	0.7	4.0	100		3/6/18 19:56:10	N	IV
2Q1801944-02	Potassium, Total	LCS		Soil	18.42 ppm	1.0 g	1840 mg/Kg	1	20	200	92		3/6/18 19:56:10	N	IV
2Q1801944-02	Selenium, Total	LCS		Soil	0.92 ppm	1.0 g	91.8 mg/Kg	1	0.4	1.0	91		3/6/18 19:56:10	N	IV
2Q1801944-02	Silver, Total	LCS		Soil	0.05 ppm	1.0 g	4.86 mg/Kg	1	0.07	1.0	97		3/6/18 19:56:10	N	IV
2Q1801944-02	Sodium, Total	LCS		Soil	19.52 ppm	1.0 g	1950 mg/Kg	1	70	100	98		3/6/18 19:56:10	N	IV
2Q1801944-02	Thallium, Total	LCS		Soil	1.87 ppm	1.0 g	187 mg/Kg	1	0.6	1.0	93		3/6/18 19:56:10	N	IV
2Q1801944-02	Vanadium, Total	LCS		Soil	0.50 ppm	1.0 g	50.1 mg/Kg	1	0.7	5.0	100		3/6/18 19:56:10	N	IV
2Q1801944-04	Copper, Total	LCS		NonAq Liquid	0.25 ppm	1.0 g	24.8 mg/Kg	1	0.2	2.0	99		3/6/18 19:56:10	N	II
2Q1801944-04	Lead, Total	LCS		NonAq Liquid	0.51 ppm	1.0 g	50.9 mg/Kg	1	0.3	5.0	102		3/6/18 19:56:10	N	II
21801700-001	Antimony, Total	N/A		Soil	0.00 ppm	1.0 g	13 mg/Kg U	1	3	13			3/6/18 19:59:32	N	IV
21801700-001	Arsenic, Total	N/A		Soil	0.02 ppm	1.0 g	4.8 mg/Kg	1	0.7	2.1			3/6/18 19:59:32	N	IV
21801700-001	Barium, Total	N/A		Soil	0.84 ppm	1.0 g	176 mg/Kg	1	0.2	4.2			3/6/18 19:59:32	N	IV
21801700-001	Beryllium, Total	N/A		Soil	0.00 ppm	1.0 g	0.82 mg/Kg	1	0.09	0.63			3/6/18 19:59:32	N	IV
21801700-001	Boron, Total	N/A		Soil	0.11 ppm	1.0 g	23 mg/Kg J	1	19	42			3/6/18 19:59:32	N	IV
21801700-001	Cadmium, Total	N/A		Soil	0.00 ppm	1.0 g	0.7 mg/Kg J	1	0.04	1.0			3/6/18 19:59:32	N	IV
21801700-001	Calcium, Total	N/A		Soil	50.10 ppm	1.0 g	10500 mg/Kg	1	20	210			3/6/18 19:59:32	N	IV
21801700-001	Chromium, Total	N/A		Soil	0.12 ppm	1.0 g	24.4 mg/Kg	1	0.2	2.1			3/6/18 19:59:32	N	IV
21801700-001	Cobalt, Total	N/A		Soil	0.05 ppm	1.0 g	10 mg/Kg	1	0.7	10			3/6/18 19:59:32	N	IV
21801700-001	Copper, Total	N/A		Soil	0.16 ppm	1.0 g	33.7 mg/Kg	1	1.0	4.2			3/6/18 19:59:32	N	IV
21801700-001	Lead, Total	N/A		Soil	0.18 ppm	1.0 g	38 mg/Kg	1	0.5	10			3/6/18 19:59:32	N	IV
21801700-001	Magnesium, Total	N/A		Soil	37.99 ppm	1.0 g	7950 mg/Kg	1	40	210			3/6/18 19:59:32	N	IV
21801700-001	Manganese, Total	N/A		Soil	1.24 ppm	1.0 g	260 mg/Kg	1	2.1	4.2			3/6/18 19:59:32	N	IV
21801700-001	Nickel, Total	N/A		Soil	0.14 ppm	1.0 g	30.2 mg/Kg	1	1.5	8.4			3/6/18 19:59:32	N	IV
21801700-001	Potassium, Total	N/A		Soil	9.79 ppm	1.0 g	2050 mg/Kg	1	40	420			3/6/18 19:59:32	N	IV
21801700-001	Selenium, Total	N/A		Soil	0.01 ppm	1.0 g	1.9 mg/Kg J	1	0.8	2.1			3/6/18 19:59:32	N	IV
21801700-001	Silver, Total	N/A		Soil	0.00 ppm	1.0 g	0.5 mg/Kg J	1	0.2	2.1			3/6/18 19:59:32	N	IV
21801700-001	Sodium, Total	N/A		Soil	0.97 ppm	1.0 g	200 mg/Kg J	1	140	210			3/6/18 19:59:32	N	IV
21801700-001	Thallium, Total	N/A		Soil	-0.01 ppm	1.0 g	2.1 mg/Kg U	1	1.1	2.1			3/6/18 19:59:32	N	IV
21801700-001	Vanadium, Total	N/A		Soil	0.15 ppm	1.0 g	32 mg/Kg	1	2	10			3/6/18 19:59:32	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709 Method/Testcode: 6010C/Sb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801700-002	Antimony, Total	N/A		Soil	0.00 ppm	1.0400 g	15 mg/Kg U	1	3	15			3/6/18 20:02:52	N	IV
1801700-002	Arsenic, Total	N/A		Soil	0.05 ppm	1.0400 g	13.7 mg/Kg	1	0.8	2.6			3/6/18 20:02:52	N	IV
1801700-002	Barium, Total	N/A		Soil	0.68 ppm	1.0400 g	174 mg/Kg	1	0.2	5.1			3/6/18 20:02:52	N	IV
1801700-002	Beryllium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.77 mg/Kg J	1	0.11	0.77			3/6/18 20:02:52	N	IV
1801700-002	Boron, Total	N/A		Soil	0.10 ppm	1.0400 g	26 mg/Kg J	1	23	51			3/6/18 20:02:52	N	IV
1801700-002	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.7 mg/Kg J	1	0.05	1.3			3/6/18 20:02:52	N	IV
1801700-002	Chromium, Total	N/A		Soil	0.08 ppm	1.0400 g	21.5 mg/Kg	1	0.3	2.6			3/6/18 20:02:52	N	IV
1801700-002	Cobalt, Total	N/A		Soil	0.04 ppm	1.0400 g	11 mg/Kg J	1	0.9	13			3/6/18 20:02:52	N	IV
1801700-002	Copper, Total	N/A		Soil	0.17 ppm	1.0400 g	43.1 mg/Kg	1	1.2	5.1			3/6/18 20:02:52	N	IV
1801700-002	Lead, Total	N/A		Soil	0.12 ppm	1.0400 g	31 mg/Kg	1	0.5	13			3/6/18 20:02:52	N	IV
1801700-002	Magnesium, Total	N/A		Soil	61.92 ppm	1.0400 g	15800 mg/Kg	1	50	260			3/6/18 20:02:52	N	IV
1801700-002	Manganese, Total	N/A		Soil	4.22 ppm	1.0400 g	1080 mg/Kg	1	2.6	5.1			3/6/18 20:02:52	N	IV
1801700-002	Nickel, Total	N/A		Soil	0.12 ppm	1.0400 g	31 mg/Kg	1	2	10			3/6/18 20:02:52	N	IV
1801700-002	Potassium, Total	N/A		Soil	9.70 ppm	1.0400 g	2470 mg/Kg	1	50	510			3/6/18 20:02:52	N	IV
1801700-002	Selenium, Total	N/A		Soil	0.01 ppm	1.0400 g	1.4 mg/Kg J	1	1.0	2.6			3/6/18 20:02:52	N	IV
1801700-002	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	2.6 mg/Kg U	1	0.2	2.6			3/6/18 20:02:52	N	IV
1801700-002	Sodium, Total	N/A		Soil	0.97 ppm	1.0400 g	250 mg/Kg J	1	170	260			3/6/18 20:02:52	N	IV
1801700-002	Thallium, Total	N/A		Soil	-0.01 ppm	1.0400 g	2.6 mg/Kg U	1	1.4	2.6			3/6/18 20:02:52	N	IV
1801700-002	Vanadium, Total	N/A		Soil	0.13 ppm	1.0400 g	33 mg/Kg	1	2	13			3/6/18 20:02:52	N	IV
1801700-003	Antimony, Total	N/A		Soil	0.00 ppm	1.0 g	13 mg/Kg U	1	3	13			3/6/18 20:06:13	N	IV
1801700-003	Arsenic, Total	N/A		Soil	0.03 ppm	1.0 g	6.3 mg/Kg	1	0.7	2.2			3/6/18 20:06:13	N	IV
1801700-003	Barium, Total	N/A		Soil	0.38 ppm	1.0 g	83.7 mg/Kg	1	0.2	4.4			3/6/18 20:06:13	N	IV
1801700-003	Beryllium, Total	N/A		Soil	0.00 ppm	1.0 g	0.48 mg/Kg J	1	0.09	0.66			3/6/18 20:06:13	N	IV
1801700-003	Boron, Total	N/A		Soil	0.09 ppm	1.0 g	21 mg/Kg J	1	19	44			3/6/18 20:06:13	N	IV
1801700-003	Cadmium, Total	N/A		Soil	0.00 ppm	1.0 g	0.4 mg/Kg J	1	0.04	1.1			3/6/18 20:06:13	N	IV
1801700-003	Chromium, Total	N/A		Soil	0.07 ppm	1.0 g	15.2 mg/Kg	1	0.2	2.2			3/6/18 20:06:13	N	IV
1801700-003	Cobalt, Total	N/A		Soil	0.04 ppm	1.0 g	9 mg/Kg J	1	0.8	11			3/6/18 20:06:13	N	IV
1801700-003	Copper, Total	N/A		Soil	0.12 ppm	1.0 g	26.7 mg/Kg	1	1.1	4.4			3/6/18 20:06:13	N	IV
1801700-003	Lead, Total	N/A		Soil	0.09 ppm	1.0 g	19 mg/Kg	1	0.5	11			3/6/18 20:06:13	N	IV
1801700-003	Magnesium, Total	N/A		Soil	101.14 ppm	1.0 g	22100 mg/Kg	1	50	220			3/6/18 20:06:13	N	IV
1801700-003	Manganese, Total	N/A		Soil	2.62 ppm	1.0 g	571 mg/Kg	1	2.2	4.4			3/6/18 20:06:13	N	IV
1801700-003	Nickel, Total	N/A		Soil	0.10 ppm	1.0 g	22.0 mg/Kg	1	1.5	8.7			3/6/18 20:06:13	N	IV
1801700-003	Potassium, Total	N/A		Soil	9.97 ppm	1.0 g	2180 mg/Kg	1	40	440			3/6/18 20:06:13	N	IV
1801700-003	Selenium, Total	N/A		Soil	0.00 ppm	1.0 g	2.2 mg/Kg U	1	0.9	2.2			3/6/18 20:06:13	N	IV
1801700-003	Silver, Total	N/A		Soil	0.00 ppm	1.0 g	2.2 mg/Kg U	1	0.2	2.2			3/6/18 20:06:13	N	IV
1801700-003	Sodium, Total	N/A		Soil	1.21 ppm	1.0 g	260 mg/Kg	1	140	220			3/6/18 20:06:13	N	IV

‡ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709

Method/Testcode: 6010C/TIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801700-003	Thallium, Total	N/A		Soil	0.00 ppm	1.0 g	2.2 mg/Kg U	1	1.2	2.2			3/6/18 20:06:13	N	IV
21801700-003	Vanadium, Total	N/A		Soil	0.10 ppm	1.0 g	22 mg/Kg	1	2	11			3/6/18 20:06:13	N	IV
21801700-004	Antimony, Total	N/A		Soil	0.00 ppm	1.0100 g	8.5 mg/Kg U	1	1.5	8.5			3/6/18 20:09:34	N	IV
21801700-004	Arsenic, Total	N/A		Soil	0.04 ppm	1.0100 g	5.9 mg/Kg	1	0.5	1.4			3/6/18 20:09:34	N	IV
21801700-004	Barium, Total	N/A		Soil	0.53 ppm	1.0100 g	75.6 mg/Kg	1	0.2	2.8			3/6/18 20:09:34	N	IV
21801700-004	Beryllium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.48 mg/Kg	1	0.06	0.43			3/6/18 20:09:34	N	IV
21801700-004	Boron, Total	N/A		Soil	0.13 ppm	1.0100 g	19 mg/Kg J	1	13	28			3/6/18 20:09:34	N	IV
21801700-004	Cadmium, Total	N/A		Soil	0.00 ppm	1.0100 g	0.38 mg/Kg J	1	0.03	0.71			3/6/18 20:09:34	N	IV
21801700-004	Chromium, Total	N/A		Soil	0.11 ppm	1.0100 g	15.3 mg/Kg	1	0.2	1.4			3/6/18 20:09:34	N	IV
21801700-004	Cobalt, Total	N/A		Soil	0.07 ppm	1.0100 g	9.3 mg/Kg	1	0.5	7.1			3/6/18 20:09:34	N	IV
21801700-004	Copper, Total	N/A		Soil	0.18 ppm	1.0100 g	25.7 mg/Kg	1	0.7	2.8			3/6/18 20:09:34	N	IV
21801700-004	Lead, Total	N/A		Soil	0.09 ppm	1.0100 g	12.9 mg/Kg	1	0.3	7.1			3/6/18 20:09:34	N	IV
21801700-004	Magnesium, Total	N/A		Soil	147.67 ppm	1.0100 g	21000 mg/Kg	1	30	140			3/6/18 20:09:34	N	IV
21801700-004	Manganese, Total	N/A		Soil	3.98 ppm	1.0100 g	566 mg/Kg	1	1.5	2.8			3/6/18 20:09:34	N	IV
21801700-004	Nickel, Total	N/A		Soil	0.16 ppm	1.0100 g	23.0 mg/Kg	1	1.0	5.7			3/6/18 20:09:34	N	IV
21801700-004	Potassium, Total	N/A		Soil	14.23 ppm	1.0100 g	2020 mg/Kg	1	30	280			3/6/18 20:09:34	N	IV
21801700-004	Selenium, Total	N/A		Soil	0.00 ppm	1.0100 g	1.4 mg/Kg U	1	0.6	1.4			3/6/18 20:09:34	N	IV
21801700-004	Silver, Total	N/A		Soil	0.00 ppm	1.0100 g	1.4 mg/Kg U	1	0.10	1.4			3/6/18 20:09:34	N	IV
21801700-004	Sodium, Total	N/A		Soil	1.37 ppm	1.0100 g	190 mg/Kg	1	100	140			3/6/18 20:09:34	N	IV
21801700-004	Thallium, Total	N/A		Soil	0.01 ppm	1.0100 g	1.4 mg/Kg U	1	0.8	1.4			3/6/18 20:09:34	N	IV
21801700-004	Vanadium, Total	N/A		Soil	0.15 ppm	1.0100 g	21.6 mg/Kg	1	1.0	7.1			3/6/18 20:09:34	N	IV
21801700-005	Antimony, Total	N/A		Soil	0.02 ppm	1.0200 g	2.4 mg/Kg J	1	1.6	9.3			3/6/18 20:12:54	N	IV
21801700-005	Arsenic, Total	N/A		Soil	0.04 ppm	1.0200 g	6.7 mg/Kg	1	0.5	1.5			3/6/18 20:12:54	N	IV
21801700-005	Barium, Total	N/A		Soil	0.72 ppm	1.0200 g	112 mg/Kg	1	0.2	3.1			3/6/18 20:12:54	N	IV
21801700-005	Beryllium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.48 mg/Kg	1	0.07	0.46			3/6/18 20:12:54	N	IV
21801700-005	Boron, Total	N/A		Soil	0.13 ppm	1.0200 g	20 mg/Kg J	1	14	31			3/6/18 20:12:54	N	IV
21801700-005	Cadmium, Total	N/A		Soil	0.01 ppm	1.0200 g	1.05 mg/Kg	1	0.03	0.77			3/6/18 20:12:54	N	IV
21801700-005	Chromium, Total	N/A		Soil	0.11 ppm	1.0200 g	16.4 mg/Kg	1	0.2	1.5			3/6/18 20:12:54	N	IV
21801700-005	Cobalt, Total	N/A		Soil	0.05 ppm	1.0200 g	8.1 mg/Kg	1	0.6	7.7			3/6/18 20:12:54	N	IV
21801700-005	Copper, Total	N/A		Soil	0.27 ppm	1.0200 g	42.3 mg/Kg	1	0.8	3.1			3/6/18 20:12:54	N	IV
21801700-005	Lead, Total	N/A		Soil	0.34 ppm	1.0200 g	53.1 mg/Kg	1	0.4	7.7			3/6/18 20:12:54	N	IV
21801700-005	Magnesium, Total	N/A		Soil	122.25 ppm	1.0200 g	18900 mg/Kg	1	30	150			3/6/18 20:12:54	N	IV
21801700-005	Manganese, Total	N/A		Soil	3.35 ppm	1.0200 g	520 mg/Kg	1	1.6	3.1			3/6/18 20:12:54	N	IV
21801700-005	Nickel, Total	N/A		Soil	0.15 ppm	1.0200 g	22.6 mg/Kg	1	1.1	6.2			3/6/18 20:12:54	N	IV
21801700-005	Potassium, Total	N/A		Soil	12.05 ppm	1.0200 g	1870 mg/Kg	1	30	310			3/6/18 20:12:54	N	IV
21801700-005	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	1.5 mg/Kg U	1	0.6	1.5			3/6/18 20:12:54	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709

Method/Testcode: 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801700-005	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	1.5 mg/Kg U	1	0.2	1.5			3/6/18 20:12:54	N	IV
1801700-005	Sodium, Total	N/A		Soil	1.36 ppm	1.0200 g	210 mg/Kg	1	100	150			3/6/18 20:12:54	N	IV
1801700-005	Thallium, Total	N/A		Soil	0.01 ppm	1.0200 g	1.6 mg/Kg	1	0.9	1.5			3/6/18 20:12:54	N	IV
1801700-005	Vanadium, Total	N/A		Soil	0.13 ppm	1.0200 g	20.8 mg/Kg	1	1.1	7.7			3/6/18 20:12:54	N	IV
1801700-006	Antimony, Total	N/A		Soil	0.00 ppm	1.0300 g	9.7 mg/Kg U	1	1.7	9.7			3/6/18 20:16:15	N	IV
1801700-006	Arsenic, Total	N/A		Soil	0.04 ppm	1.0300 g	6.0 mg/Kg	1	0.5	1.6			3/6/18 20:16:15	N	IV
1801700-006	Barium, Total	N/A		Soil	1.15 ppm	1.0300 g	186 mg/Kg	1	0.2	3.2			3/6/18 20:16:15	N	IV
1801700-006	Beryllium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.68 mg/Kg	1	0.07	0.49			3/6/18 20:16:15	N	IV
1801700-006	Boron, Total	N/A		Soil	0.12 ppm	1.0300 g	20 mg/Kg J	1	15	32			3/6/18 20:16:15	N	IV
1801700-006	Cadmium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.68 mg/Kg J	1	0.03	0.81			3/6/18 20:16:15	N	IV
1801700-006	Calcium, Total	N/A		Soil	60.72 ppm	1.0300 g	9830 mg/Kg	1	9	160			3/6/18 20:16:15	N	IV
1801700-006	Chromium, Total	N/A		Soil	0.12 ppm	1.0300 g	19.4 mg/Kg	1	0.2	1.6			3/6/18 20:16:15	N	IV
1801700-006	Cobalt, Total	N/A		Soil	0.06 ppm	1.0300 g	10.4 mg/Kg	1	0.6	8.1			3/6/18 20:16:15	N	IV
1801700-006	Copper, Total	N/A		Soil	0.14 ppm	1.0300 g	21.9 mg/Kg	1	0.8	3.2			3/6/18 20:16:15	N	IV
1801700-006	Lead, Total	N/A		Soil	0.19 ppm	1.0300 g	30.1 mg/Kg	1	0.4	8.1			3/6/18 20:16:15	N	IV
1801700-006	Magnesium, Total	N/A		Soil	36.76 ppm	1.0300 g	5950 mg/Kg	1	40	160			3/6/18 20:16:15	N	IV
1801700-006	Manganese, Total	N/A		Soil	5.70 ppm	1.0300 g	923 mg/Kg	1	1.7	3.2			3/6/18 20:16:15	N	IV
1801700-006	Nickel, Total	N/A		Soil	0.14 ppm	1.0300 g	23.3 mg/Kg	1	1.2	6.5			3/6/18 20:16:15	N	IV
1801700-006	Potassium, Total	N/A		Soil	9.72 ppm	1.0300 g	1570 mg/Kg	1	30	320			3/6/18 20:16:15	N	IV
1801700-006	Selenium, Total	N/A		Soil	0.01 ppm	1.0300 g	1.1 mg/Kg J	1	0.7	1.6			3/6/18 20:16:15	N	IV
1801700-006	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	1.6 mg/Kg U	1	0.2	1.6			3/6/18 20:16:15	N	IV
1801700-006	Sodium, Total	N/A		Soil	0.84 ppm	1.0300 g	140 mg/Kg J	1	110	160			3/6/18 20:16:15	N	IV
1801700-006	Thallium, Total	N/A		Soil	-0.01 ppm	1.0300 g	1.6 mg/Kg U	1	0.9	1.6			3/6/18 20:16:15	N	IV
1801700-006	Vanadium, Total	N/A		Soil	0.17 ppm	1.0300 g	27.9 mg/Kg	1	1.1	8.1			3/6/18 20:16:15	N	IV
1801700-007	Antimony, Total	N/A		Soil	0.00 ppm	1.0400 g	7.3 mg/Kg U	1	1.3	7.3			3/6/18 20:19:36	N	IV
1801700-007	Arsenic, Total	N/A		Soil	0.05 ppm	1.0400 g	6.0 mg/Kg	1	0.4	1.2			3/6/18 20:19:36	N	IV
1801700-007	Barium, Total	N/A		Soil	0.79 ppm	1.0400 g	95.8 mg/Kg	1	0.09	2.4			3/6/18 20:19:36	N	IV
1801700-007	Beryllium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.56 mg/Kg	1	0.05	0.37			3/6/18 20:19:36	N	IV
1801700-007	Boron, Total	N/A		Soil	0.17 ppm	1.0400 g	20 mg/Kg J	1	11	24			3/6/18 20:19:36	N	IV
1801700-007	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.27 mg/Kg BJ	1	0.03	0.61			3/6/18 20:19:36	N	IV
1801700-007	Chromium, Total	N/A		Soil	0.15 ppm	1.0400 g	18.9 mg/Kg	1	0.2	1.2			3/6/18 20:19:36	N	IV
1801700-007	Cobalt, Total	N/A		Soil	0.08 ppm	1.0400 g	9.7 mg/Kg	1	0.5	6.1			3/6/18 20:19:36	N	IV
1801700-007	Copper, Total	N/A		Soil	0.18 ppm	1.0400 g	22.2 mg/Kg	1	0.6	2.4			3/6/18 20:19:36	N	IV
1801700-007	Lead, Total	N/A		Soil	0.08 ppm	1.0400 g	9.3 mg/Kg	1	0.3	6.1			3/6/18 20:19:36	N	IV
1801700-007	Magnesium, Total	N/A		Soil	140.91 ppm	1.0400 g	17200 mg/Kg	1	30	120			3/6/18 20:19:36	N	IV
1801700-007	Manganese, Total	N/A		Soil	4.36 ppm	1.0400 g	532 mg/Kg	1	1.3	2.4			3/6/18 20:19:36	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709

Method/Testcode: 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801700-007	Nickel, Total	N/A		Soil	0.18 ppm	1.0400 g	22.1 mg/Kg	1	0.9	4.9			3/6/18 20:19:36	N	IV
1801700-007	Potassium, Total	N/A		Soil	21.17 ppm	1.0400 g	2580 mg/Kg	1	30	240			3/6/18 20:19:36	N	IV
1801700-007	Selenium, Total	N/A		Soil	0.00 ppm	1.0400 g	1.2 mg/Kg U	1	0.5	1.2			3/6/18 20:19:36	N	IV
1801700-007	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	1.2 mg/Kg U	1	0.09	1.2			3/6/18 20:19:36	N	IV
1801700-007	Sodium, Total	N/A		Soil	1.60 ppm	1.0400 g	200 mg/Kg	1	80	120			3/6/18 20:19:36	N	IV
1801700-007	Thallium, Total	N/A		Soil	0.01 ppm	1.0400 g	1.2 mg/Kg U	1	0.7	1.2			3/6/18 20:19:36	N	IV
1801700-007	Vanadium, Total	N/A		Soil	0.21 ppm	1.0400 g	25.3 mg/Kg	1	0.9	6.1			3/6/18 20:19:36	N	IV
1801739-001	Arsenic, Total	N/A		Soil	0.01 ppm	1.0200 g	3.5 mg/Kg	1	1.0	3.4			3/6/18 20:22:57	N	I
1801739-001	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	1.7 mg/Kg U	1	0.06	1.7			3/6/18 20:22:57	N	I
1801739-001	Chromium, Total	N/A		Soil	0.14 ppm	1.0200 g	46.3 mg/Kg	1	0.4	3.4			3/6/18 20:22:57	N	I
1801739-001	Copper, Total	N/A		Soil	1.38 ppm	1.0200 g	471 mg/Kg	1	1.6	6.8			3/6/18 20:22:57	N	I
1801739-001	Lead, Total	N/A		Soil	0.03 ppm	1.0200 g	17 mg/Kg U	1	0.7	17			3/6/18 20:22:57	N	I
1801739-001	Molybdenum, Total	N/A		Soil	0.02 ppm	1.0200 g	8.5 mg/Kg U	1	2.2	8.5			3/6/18 20:22:57	N	I
1801739-001	Nickel, Total	N/A		Soil	0.02 ppm	1.0200 g	14 mg/Kg U	1	3	14			3/6/18 20:22:57	N	I
1801739-001	Selenium, Total	N/A		Soil	0.01 ppm	1.0200 g	3.4 mg/Kg U	1	1.3	3.4			3/6/18 20:22:57	N	I
1801792-001	Lead, Total	N/A		Soil	0.01 ppm	1.0200 g	5.3 mg/Kg U	1	0.3	5.3			3/6/18 20:32:59	N	II
1801792-002	Lead, Total	N/A		Soil	0.01 ppm	1.0 g	5.5 mg/Kg U	1	0.3	5.5			3/6/18 20:36:20	N	II
1801792-003	Lead, Total	N/A		Soil	2.88 ppm	1.0 g	350 mg/Kg	1	0.3	6.1			3/6/18 20:39:41	N	II
1801792-004	Lead, Total	N/A		Soil	0.28 ppm	1.0100 g	33.4 mg/Kg	1	0.3	5.9			3/6/18 20:43:02	N	II
1801792-005	Lead, Total	N/A		Soil	0.02 ppm	1.0400 g	5.5 mg/Kg U	1	0.3	5.5			3/6/18 20:46:23	N	II
1801792-006	Arsenic, Total	N/A		Soil	0.02 ppm	1.0500 g	2.5 mg/Kg	1	0.3	1.0			3/6/18 20:49:43	N	II
1801792-006	Barium, Total	N/A		Soil	0.24 ppm	1.0500 g	24.0 mg/Kg	1	0.08	2.0			3/6/18 20:49:43	N	II
1801792-006	Cadmium, Total	N/A		Soil	0.00 ppm	1.0500 g	0.51 mg/Kg U	1	0.02	0.51			3/6/18 20:49:43	N	II
1801792-006	Chromium, Total	N/A		Soil	0.07 ppm	1.0500 g	7.5 mg/Kg	1	0.10	1.0			3/6/18 20:49:43	N	II
1801792-006	Lead, Total	N/A		Soil	0.06 ppm	1.0500 g	6.4 mg/Kg	1	0.2	5.1			3/6/18 20:49:43	N	II
1801792-006	Selenium, Total	N/A		Soil	0.00 ppm	1.0500 g	1.0 mg/Kg U	1	0.4	1.0			3/6/18 20:49:43	N	II
1801792-006	Silver, Total	N/A		Soil	0.00 ppm	1.0500 g	1.0 mg/Kg U	1	0.07	1.0			3/6/18 20:49:43	N	II
1801792-007	Arsenic, Total	N/A		Soil	0.01 ppm	1.0 g	1.3 mg/Kg	1	0.4	1.2			3/6/18 20:53:04	N	II
1801792-007	Barium, Total	N/A		Soil	0.15 ppm	1.0 g	18.1 mg/Kg	1	0.09	2.3			3/6/18 20:53:04	N	II
1801792-007	Cadmium, Total	N/A		Soil	0.00 ppm	1.0 g	0.59 mg/Kg U	1	0.02	0.59			3/6/18 20:53:04	N	II
1801792-007	Chromium, Total	N/A		Soil	0.05 ppm	1.0 g	5.4 mg/Kg	1	0.2	1.2			3/6/18 20:53:04	N	II
1801792-007	Lead, Total	N/A		Soil	0.02 ppm	1.0 g	5.9 mg/Kg U	1	0.3	5.9			3/6/18 20:53:04	N	II
1801792-007	Selenium, Total	N/A		Soil	0.00 ppm	1.0 g	1.2 mg/Kg U	1	0.5	1.2			3/6/18 20:53:04	N	II
1801792-007	Silver, Total	N/A		Soil	0.00 ppm	1.0 g	1.2 mg/Kg U	1	0.08	1.2			3/6/18 20:53:04	N	II
1801792-008	Arsenic, Total	N/A		Soil	0.01 ppm	1.0400 g	1.2 mg/Kg U	1	0.4	1.2			3/6/18 20:56:25	N	II
1801792-008	Barium, Total	N/A		Soil	0.15 ppm	1.0400 g	17.3 mg/Kg	1	0.09	2.4			3/6/18 20:56:25	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709

Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801792-008	Cadmium, Total	N/A		Soil	0.00 ppm	1.0400 g	0.59 mg/Kg U	1	0.02	0.59			3/6/18 20:56:25	N	II
1801792-008	Chromium, Total	N/A		Soil	0.04 ppm	1.0400 g	5.3 mg/Kg	1	0.2	1.2			3/6/18 20:56:25	N	II
1801792-008	Lead, Total	N/A		Soil	0.02 ppm	1.0400 g	5.9 mg/Kg U	1	0.3	5.9			3/6/18 20:56:25	N	II
1801792-008	Selenium, Total	N/A		Soil	0.00 ppm	1.0400 g	1.2 mg/Kg U	1	0.5	1.2			3/6/18 20:56:25	N	II
1801792-008	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	1.2 mg/Kg U	1	0.08	1.2			3/6/18 20:56:25	N	II
1801792-009	Arsenic, Total	N/A		Soil	0.01 ppm	1.0200 g	1.1 mg/Kg U	1	0.4	1.1			3/6/18 20:59:46	N	II
1801792-009	Barium, Total	N/A		Soil	0.22 ppm	1.0200 g	24.1 mg/Kg	1	0.09	2.2			3/6/18 20:59:46	N	II
1801792-009	Cadmium, Total	N/A		Soil	0.00 ppm	1.0200 g	0.55 mg/Kg U	1	0.02	0.55			3/6/18 20:59:46	N	II
1801792-009	Chromium, Total	N/A		Soil	0.06 ppm	1.0200 g	6.2 mg/Kg	1	0.2	1.1			3/6/18 20:59:46	N	II
1801792-009	Lead, Total	N/A		Soil	0.03 ppm	1.0200 g	5.5 mg/Kg U	1	0.3	5.5			3/6/18 20:59:46	N	II
1801792-009	Selenium, Total	N/A		Soil	0.00 ppm	1.0200 g	1.1 mg/Kg U	1	0.5	1.1			3/6/18 20:59:46	N	II
1801792-009	Silver, Total	N/A		Soil	0.00 ppm	1.0200 g	1.1 mg/Kg U	1	0.08	1.1			3/6/18 20:59:46	N	II
1801804-004	Arsenic, Total	N/A		Soil	0.02 ppm	1.0300 g	1.76 mg/Kg #	1	0.29	0.97			3/6/18 21:03:08	N	IV
1801804-004	Barium, Total	N/A		Soil	0.23 ppm	1.0300 g	22.7 mg/Kg #	1	0.08	1.9			3/6/18 21:03:08	N	IV
1801804-004	Cadmium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.08 mg/Kg # BJ	1	0.02	0.49			3/6/18 21:03:08	N	IV
1801804-004	Chromium, Total	N/A		Soil	0.05 ppm	1.0300 g	4.51 mg/Kg #	1	0.10	0.97			3/6/18 21:03:08	N	IV
1801804-004	Lead, Total	N/A		Soil	0.03 ppm	1.0300 g	3.1 mg/Kg # J	1	0.2	4.9			3/6/18 21:03:08	N	IV
1801804-004	Selenium, Total	N/A		Soil	0.00 ppm	1.0300 g	0.97 mg/Kg # U	1	0.38	0.97			3/6/18 21:03:08	N	IV
1801804-004	Silver, Total	N/A		Soil	0.00 ppm	1.0300 g	0.97 mg/Kg # U	1	0.07	0.97			3/6/18 21:03:08	N	IV
1801944-05	Arsenic, Total	MS	R1801804-004	Soil	0.05 ppm	1.0400 g	4.88 mg/Kg #	1	0.29	0.96	81		3/6/18 21:13:10	N	IV
1801944-05	Barium, Total	MS	R1801804-004	Soil	2.13 ppm	1.0400 g	204 mg/Kg #	1	0.08	1.9	95		3/6/18 21:13:10	N	IV
1801944-05	Cadmium, Total	MS	R1801804-004	Soil	0.05 ppm	1.0400 g	4.48 mg/Kg #	1	0.02	0.48	92		3/6/18 21:13:10	N	IV
1801944-05	Chromium, Total	MS	R1801804-004	Soil	0.24 ppm	1.0400 g	22.9 mg/Kg #	1	0.10	0.96	96		3/6/18 21:13:10	N	IV
1801944-05	Lead, Total	MS	R1801804-004	Soil	0.49 ppm	1.0400 g	46.7 mg/Kg #	1	0.2	4.8	91		3/6/18 21:13:10	N	IV
1801944-05	Selenium, Total	MS	R1801804-004	Soil	0.90 ppm	1.0400 g	86.8 mg/Kg #	1	0.38	0.96	89		3/6/18 21:13:10	N	IV
1801944-05	Silver, Total	MS	R1801804-004	Soil	0.05 ppm	1.0400 g	4.55 mg/Kg #	1	0.07	0.96	95		3/6/18 21:13:10	N	IV
1801944-06	Arsenic, Total	DMS	R1801804-004	Soil	0.05 ppm	1.0400 g	4.99 mg/Kg #	1	0.29	0.96	84	2	3/6/18 21:16:32	N	IV
1801944-06	Barium, Total	DMS	R1801804-004	Soil	2.18 ppm	1.0400 g	210 mg/Kg #	1	0.08	1.9	97	3	3/6/18 21:16:32	N	IV
1801944-06	Cadmium, Total	DMS	R1801804-004	Soil	0.05 ppm	1.0400 g	4.56 mg/Kg #	1	0.02	0.48	93	2	3/6/18 21:16:32	N	IV
1801944-06	Chromium, Total	DMS	R1801804-004	Soil	0.24 ppm	1.0400 g	23.5 mg/Kg #	1	0.10	0.96	99	3	3/6/18 21:16:32	N	IV
1801944-06	Lead, Total	DMS	R1801804-004	Soil	0.49 ppm	1.0400 g	47.4 mg/Kg #	1	0.2	4.8	92	2	3/6/18 21:16:32	N	IV
1801944-06	Selenium, Total	DMS	R1801804-004	Soil	0.91 ppm	1.0400 g	88.0 mg/Kg #	1	0.38	0.96	91	1	3/6/18 21:16:32	N	IV
1801944-06	Silver, Total	DMS	R1801804-004	Soil	0.05 ppm	1.0400 g	4.64 mg/Kg #	1	0.07	0.96	97	2	3/6/18 21:16:32	N	IV
1801804-005	Arsenic, Total	N/A		Soil	0.03 ppm	1.0400 g	2.76 mg/Kg #	1	0.29	0.96			3/6/18 21:26:36	N	IV
1801804-005	Barium, Total	N/A		Soil	0.29 ppm	1.0400 g	27.7 mg/Kg #	1	0.08	1.9			3/6/18 21:26:36	N	IV
1801804-005	Cadmium, Total	N/A		Soil	0.01 ppm	1.0400 g	0.99 mg/Kg #	1	0.02	0.48			3/6/18 21:26:36	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582709 Method/Testcode: 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801804-005	Chromium, Total	N/A		Soil	0.08 ppm	1.0400 g	7.55 mg/Kg #	1	0.10	0.96			3/6/18 21:26:36	N	IV
R1801804-005	Lead, Total	N/A		Soil	0.13 ppm	1.0400 g	12.7 mg/Kg #	1	0.2	4.8			3/6/18 21:26:36	N	IV
R1801804-005	Selenium, Total	N/A		Soil	0.01 ppm	1.0400 g	0.85 mg/Kg # J	1	0.38	0.96			3/6/18 21:26:36	N	IV
R1801804-005	Silver, Total	N/A		Soil	0.00 ppm	1.0400 g	0.96 mg/Kg # U	1	0.07	0.96			3/6/18 21:26:36	N	IV
R1801809-001	Copper, Total	N/A		NonAq Liquid	0.00 ppm	1.0200 g	2.0 mg/Kg U	1	0.2	2.0			3/6/18 21:29:56	N	II
R1801809-001	Lead, Total	N/A		NonAq Liquid	0.00 ppm	1.0200 g	4.9 mg/Kg U	1	0.3	4.9			3/6/18 21:29:56	N	II
R1801700-001	Aluminum, Total	N/A		Soil	7.73 ppm	1.0 g	16200 mg/Kg	10	190	210			3/6/18 21:33:17	N	IV
R1801700-001	Iron, Total	N/A		Soil	12.42 ppm	1.0 g	26000 mg/Kg	10	240	250			3/6/18 21:33:17	N	IV
R1801700-002	Aluminum, Total	N/A		Soil	5.89 ppm	1.0400 g	15000 mg/Kg	10	230	260			3/6/18 21:36:38	N	IV
R1801700-002	Calcium, Total	N/A		Soil	20.58 ppm	1.0400 g	52500 mg/Kg	10	200	2600			3/6/18 21:36:38	N	IV
R1801700-002	Iron, Total	N/A		Soil	12.04 ppm	1.0400 g	30700 mg/Kg	10	290	310			3/6/18 21:36:38	N	IV
R1801700-003	Aluminum, Total	N/A		Soil	3.99 ppm	1.0 g	8700 mg/Kg	10	200	220			3/6/18 21:39:58	N	IV
R1801700-003	Calcium, Total	N/A		Soil	35.70 ppm	1.0 g	78000 mg/Kg	10	200	2200			3/6/18 21:39:58	N	IV
R1801700-003	Iron, Total	N/A		Soil	8.16 ppm	1.0 g	17800 mg/Kg	10	250	260			3/6/18 21:39:58	N	IV
R1801700-004	Aluminum, Total	N/A		Soil	6.72 ppm	1.0100 g	9550 mg/Kg	10	130	140			3/6/18 21:43:19	N	IV
R1801700-004	Calcium, Total	N/A		Soil	50.79 ppm	1.0100 g	72100 mg/Kg	10	80	1400			3/6/18 21:43:19	N	IV
R1801700-004	Iron, Total	N/A		Soil	14.73 ppm	1.0100 g	20900 mg/Kg	10	160	170			3/6/18 21:43:19	N	IV
R1801700-005	Aluminum, Total	N/A		Soil	6.96 ppm	1.0200 g	10800 mg/Kg	10	140	150			3/6/18 21:53:21	N	IV
R1801700-005	Calcium, Total	N/A		Soil	61.52 ppm	1.0200 g	95300 mg/Kg	10	80	1500			3/6/18 21:53:21	N	IV
R1801700-005	Iron, Total	N/A		Soil	14.08 ppm	1.0200 g	21800 mg/Kg	10	180	190			3/6/18 21:53:21	N	IV
R1801700-006	Aluminum, Total	N/A		Soil	8.27 ppm	1.0300 g	13400 mg/Kg	10	150	160			3/6/18 21:56:42	N	IV
R1801700-006	Iron, Total	N/A		Soil	15.79 ppm	1.0300 g	25500 mg/Kg	10	180	190			3/6/18 21:56:42	N	IV
R1801700-007	Aluminum, Total	N/A		Soil	9.58 ppm	1.0400 g	11700 mg/Kg	10	110	120			3/6/18 22:00:03	N	IV
R1801700-007	Calcium, Total	N/A		Soil	48.64 ppm	1.0400 g	59300 mg/Kg	10	70	1200			3/6/18 22:00:03	N	IV
R1801700-007	Iron, Total	N/A		Soil	19.07 ppm	1.0400 g	23200 mg/Kg	10	140	150			3/6/18 22:00:03	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 582710

Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801639-001	Calcium, Total	N/A		Water	26.81 ppm	50 mL	268000 µg/L	10	4000	10000			3/6/18 22:43:35	N	IV
21801639-001	Sodium, Total	N/A		Water	26.24 ppm	50 mL	262000 µg/L	10	4000	10000			3/6/18 22:43:35	N	IV
21801639-002	Calcium, Total	N/A		Water	26.27 ppm	50 mL	263000 µg/L	10	4000	10000			3/6/18 22:46:56	N	IV
21801639-002	Sodium, Total	N/A		Water	25.76 ppm	50 mL	258000 µg/L	10	4000	10000			3/6/18 22:46:56	N	IV
21801639-005	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	1000 µg/L	U 10	1000	1000			3/6/18 22:50:16	N	IV
21801639-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	600 µg/L	U 10	80	600			3/6/18 22:50:16	N	IV
21801639-005	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L	U 10	40	100			3/6/18 22:50:16	N	IV
21801639-005	Barium, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L	10	130	200			3/6/18 22:50:16	N	IV
21801639-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	30 µg/L	U 10	7	30			3/6/18 22:50:16	N	IV
21801639-005	Boron, Total	N/A		Water	0.01 ppm	50 mL	2000 µg/L	U 10	800	2000			3/6/18 22:50:16	N	IV
21801639-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 10	9	50			3/6/18 22:50:16	N	IV
21801639-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L	U 10	30	100			3/6/18 22:50:16	N	IV
21801639-005	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L	U 10	30	500			3/6/18 22:50:16	N	IV
21801639-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	200 µg/L	U 10	100	200			3/6/18 22:50:16	N	IV
21801639-005	Iron, Total	N/A		Water	2.12 ppm	50 mL	21200 µg/L	10	800	1000			3/6/18 22:50:16	N	IV
21801639-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L	U 10	40	500			3/6/18 22:50:16	N	IV
21801639-005	Magnesium, Total	N/A		Water	85.14 ppm	50 mL	851000 µg/L	10	3000	10000			3/6/18 22:50:16	N	IV
21801639-005	Manganese, Total	N/A		Water	0.25 ppm	50 mL	2460 µg/L	10	50	100			3/6/18 22:50:16	N	IV
21801639-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	400 µg/L	U 10	90	400			3/6/18 22:50:16	N	IV
21801639-005	Potassium, Total	N/A		Water	21.37 ppm	50 mL	214000 µg/L	10	3000	20000			3/6/18 22:50:16	N	IV
21801639-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L	U 10	40	100			3/6/18 22:50:16	N	IV
21801639-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L	U 10	20	100			3/6/18 22:50:16	N	IV
21801639-005	Thallium, Total	N/A		Water	0.06 ppm	50 mL	620 µg/L	10	60	100			3/6/18 22:50:16	N	IV
21801639-005	Tin, Total	N/A		Water	0.00 ppm	50 mL	5000 µg/L	U 10	300	5000			3/6/18 22:50:16	N	IV
21801639-005	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L	U 10	30	500			3/6/18 22:50:16	N	IV
21801639-007	Calcium, Total	N/A		Water	44.58 ppm	50 mL	446000 µg/L	10	4000	10000			3/6/18 22:53:37	N	IV
21801639-007	Sodium, Total	N/A		Water	42.01 ppm	50 mL	420000 µg/L	10	4000	10000			3/6/18 22:53:37	N	IV
21801639-008	Calcium, Total	N/A		Water	18.65 ppm	50 mL	187000 µg/L	10	4000	10000			3/6/18 22:56:57	N	IV
21801639-009	Potassium, Total	N/A		Water	15.94 ppm	50 mL	159000 µg/L	10	3000	20000			3/6/18 23:00:18	N	IV
21801639-012	Calcium, Total	N/A		Water	31.20 ppm	50 mL	312000 µg/L	10	4000	10000			3/6/18 23:03:39	N	IV
21801639-012	Sodium, Total	N/A		Water	23.14 ppm	50 mL	231000 µg/L	10	4000	10000			3/6/18 23:03:39	N	IV
21801639-009	Calcium, Total	N/A		Water	28.56 ppm	50 mL	2860000 µg/L	100	40000	100000			3/6/18 23:17:02	N	IV
21801639-009	Sodium, Total	N/A		Water	15.26 ppm	50 mL	1530000 µg/L	100	40000	100000			3/6/18 23:17:02	N	IV
21801639-005	Calcium, Total	N/A		Water	14.18 ppm	50 mL	14200000 µg/L	1000	4000000	1000000			3/6/18 23:20:23	N	IV
21801639-005	Sodium, Total	N/A		Water	9.66 ppm	50 mL	9700000 µg/L	1000	4000000	1000000			3/6/18 23:20:23	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Metals Cover Page

Analyst: NM

Date: 3/6/18

Instrument: FIMSTL

Data File: MAR06-S

Reviewed By: NM

Entered By: NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
582855	Hg DDD	309409	7471B		

582856	Hg	309409	7471B		




## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

Perkin Elmer FIMS Run Log

Serial number: 101S12110203

Analyst: NM

Data File: MAR06-S

Date Prepped: 3/6/18

Date Analyzed: 3/6/18

Lot #: Calibration/CRDL Source Standard: M7600001V

ICV/CCV/LCS/MS Source Standard: M7600001A

Cal/ CRDL 10ppm stock: M7590090A

ICV/CCV/LCS/MS 10ppm stock: M7590040A

Cal/ CRDL 0.1ppm stock: M7590090B

ICV/CCV/LCS/MS 0.1 ppm stock: M7590040B

Pipet ID: M28, M26

DOD Pipet Verification: \_\_\_\_\_

1  
2  
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56  
57  
58  
59  
2  
8  
1  
60

Calib Blank  
0.2ppb std  
0.5ppb std  
1.0ppb std  
2.0ppb std  
5.0ppb std  
10.0ppb std

ICV  
ICB  
MRL  
CCV  
CCB

PBS-309409  
LCSS-309409  
LOQ  
LOD  
MDLV1  
MDLV2

R1801688-001  
CCV  
CCB

R1801688-002  
R1801700-001  
R1801700-002  
R1801700-003  
R1801700-004  
R1801700-005  
R1801700-006  
R1801700-007

CCV  
CCB

R1801739-001  
R1801792-006  
R1801792-007  
R1801792-008  
R1801792-009  
R1801804-004  
R1801804-005

MRL  
CCV  
CCB

Sample060

*NM*  
*3/6/18*

*3/7/18*

*R1801700-006*

NM3/6/18

=====  
Analysis BegunLogged In Analyst: ALRCE Metals01  
Spectrometer: FIMS-100, S/N B050-9550Technique: AA FIMS-MHS  
Autosampler: S10Sample Information File: C:\Users\Public\PerkinElmer\AA\Data\Sample Information\Routine3.sif  
Batch ID:  
Results Data Set: MAR06-S  
Results Library: C:\Users\Public\PerkinElmer\AA\Data\Results\MAR18.mdb=====  
Sequence No.: 1  
Sample ID: Calib Blank  
Analyst:  
Autosampler Location: 1  
Date Collected: 3/6/2018 4:35:35 PM  
Data Type: Original=====  
Replicate Data: Calib Blank  
Analyte: Hg 253.7  
Repl SampleConc StndConc BlnkCorr Peak Peak Time Peak  
# ug/L ug/L Signal Area Height Stored  
1 [0.00] 0.0001 0.0010 0.0001 4:36:25 PM Yes  
2 [0.00] 0.0001 0.0010 0.0001 4:36:53 PM Yes  
Mean: [0.00] 0.0001  
SD: 0.0000 0.0000  
%RSD: 0.00% 14.47  
Auto-zero performed.=====  
Sequence No.: 2  
Sample ID: 0.2ppb std  
Analyst:  
Autosampler Location: 2  
Date Collected: 3/6/2018 4:37:12 PM  
Data Type: Original=====  
Replicate Data: 0.2ppb std  
Analyte: Hg 253.7  
Repl SampleConc StndConc BlnkCorr Peak Peak Time Peak  
# ug/L ug/L Signal Area Height Stored  
1 [0.2] 0.0031 0.0124 0.0033 4:38:01 PM Yes  
2 [0.2] 0.0032 0.0125 0.0033 4:38:30 PM Yes  
Mean: [0.2] 0.0032  
SD: 0.000 0.0000  
%RSD: 0.00% 0.46  
Standard number 1 applied. [0.2]  
Correlation Coef.: 1.000000 Slope: 0.01577 Intercept: 0.00000=====  
Sequence No.: 3  
Sample ID: 0.5ppb std  
Analyst:  
Autosampler Location: 3  
Date Collected: 3/6/2018 4:38:49 PM  
Data Type: Original=====  
Replicate Data: 0.5ppb std  
Analyte: Hg 253.7  
Repl SampleConc StndConc BlnkCorr Peak Peak Time Peak  
# ug/L ug/L Signal Area Height Stored  
1 [0.5] 0.0082 0.0317 0.0083 4:39:39 PM Yes  
2 [0.5] 0.0081 0.0316 0.0083 4:40:07 PM Yes  
Mean: [0.5] 0.0081  
SD: 0.000 0.0000  
%RSD: 0.00% 0.25  
Standard number 2 applied. [0.5]  
Correlation Coef.: 0.999608 Slope: 0.01622 Intercept: 0.00000=====  
Sequence No.: 4  
Sample ID: 1.0ppb std  
Analyst:  
Autosampler Location: 4  
Date Collected: 3/6/2018 4:40:26 PM  
Data Type: Original=====  
Replicate Data: 1.0ppb std  
Analyte: Hg 253.7  
Repl SampleConc StndConc BlnkCorr Peak Peak Time Peak  
# ug/L ug/L Signal Area Height Stored  
1 [1.0] 0.0163 0.0621 0.0165 4:41:16 PM Yes

2 [1.0] 0.0163 0.0619 0.0164 4:41:46 PM Yes  
 Mean: [1.0] 0.0163  
 SD: 0.000 0.0000  
 %RSD: 0.00% 0.18  
 Standard number 3 applied. [1.0]  
 Correlation Coef.: 0.999938 Slope: 0.01628 Intercept: 0.00000

Sequence No.: 5 Autosampler Location: 5  
 Sample ID: 2.0ppb std Date Collected: 3/6/2018 4:42:06 PM  
 Analyst: Data Type: Original

Replicate Data: 2.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[2.0]	[2.0]	0.0324	0.1235	0.0325	4:42:56 PM	Yes
2	[2.0]	[2.0]	0.0323	0.1224	0.0324	4:43:25 PM	Yes
Mean:	[2.0]	[2.0]	0.0323				
SD:	0.000	0.000	0.0001				
%RSD:	0.00%	0.00%	0.29				

Standard number 4 applied. [2.0]  
 Correlation Coef.: 0.999975 Slope: 0.01620 Intercept: 0.00000

Sequence No.: 6 Autosampler Location: 6  
 Sample ID: 5.0ppb std Date Collected: 3/6/2018 4:43:45 PM  
 Analyst: Data Type: Original

Replicate Data: 5.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0798	0.3020	0.0800	4:44:34 PM	Yes
2	[5.0]	[5.0]	0.0796	0.3010	0.0798	4:45:03 PM	Yes
Mean:	[5.0]	[5.0]	0.0797				
SD:	0.000	0.000	0.0002				
%RSD:	0.00%	0.00%	0.19				

Standard number 5 applied. [5.0]  
 Correlation Coef.: 0.999962 Slope: 0.01599 Intercept: 0.00000

Sequence No.: 7 Autosampler Location: 7  
 Sample ID: 10.0ppb std Date Collected: 3/6/2018 4:45:21 PM  
 Analyst: Data Type: Original

Replicate Data: 10.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.1549	0.5890	0.1551	4:46:10 PM	Yes
2	[10.0]	[10.0]	0.1537	0.5878	0.1538	4:46:39 PM	Yes
Mean:	[10.0]	[10.0]	0.1543				
SD:	0.000	0.000	0.0009				
%RSD:	0.00%	0.00%	0.58				

Standard number 6 applied. [10.0]  
 Correlation Coef.: 0.999784 Slope: 0.01557 Intercept: 0.00000

Calibration data for Hg 253.7 Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.000	0.00	14.47
0.2ppb std	0.0032	0.2	0.203	0.00	0.46
0.5ppb std	0.0081	0.5	0.523	0.00	0.25
1.0ppb std	0.0163	1.0	1.047	0.00	0.18
2.0ppb std	0.0323	2.0	2.077	0.00	0.29
5.0ppb std	0.0797	5.0	5.122	0.00	0.19
10.0ppb std	0.1543	10.0	9.914	0.00	0.58

Correlation Coef.: [0.999784] Slope: 0.01557 Intercept: 0.00000



Sequence No.: 8  
Sample ID: ICV  
Analyst:

Autosampler Location: 8  
Date Collected: 3/6/2018 4:46:58 PM  
Data Type: Original

Replicate Data: ICV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.196	3.196	0.0497	0.1844	0.0499	4:47:49 PM	Yes
2	3.173	3.173	0.0494	0.1863	0.0495	4:48:17 PM	Yes
Mean:	3.185	3.185	0.0496				
SD:	0.0157	0.0157	0.0002				
%RSD:	0.49%	0.49%	0.49				

QC value greater than the upper limit for Hg 253.7 Recovery = 106.15% **OK7471B**  
QC Failed. Continue with analysis.

Sequence No.: 9  
Sample ID: ICB  
Analyst:

Autosampler Location: 1  
Date Collected: 3/6/2018 4:48:37 PM  
Data Type: Original

Replicate Data: ICB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	0.0002	0.0001	4:49:26 PM	Yes
2	-0.005	-0.005	-0.0001	0.0003	0.0001	4:49:55 PM	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.0003	0.0003	0.0000				
%RSD:	5.58%	5.58%	5.58				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 10  
Sample ID: MRL  
Analyst:

Autosampler Location: 2  
Date Collected: 3/6/2018 4:50:13 PM  
Data Type: Original

Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.204	0.204	0.0032	0.0125	0.0033	4:51:03 PM	Yes
2	0.205	0.205	0.0032	0.0125	0.0033	4:51:32 PM	Yes
Mean:	0.205	0.205	0.0032				
SD:	0.0002	0.0002	0.0000				
%RSD:	0.11%	0.11%	0.11				

QC value within limits for Hg 253.7 Recovery = 102.30%  
All analyte(s) passed QC.

Sequence No.: 11  
Sample ID: CCV  
Analyst:

Autosampler Location: 8  
Date Collected: 3/6/2018 4:51:50 PM  
Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.150	3.150	0.0490	0.1840	0.0492	4:52:40 PM	Yes
2	3.151	3.151	0.0490	0.1840	0.0492	4:53:09 PM	Yes
Mean:	3.151	3.151	0.0490				
SD:	0.0007	0.0007	0.0000				
%RSD:	0.02%	0.02%	0.02				

QC value within limits for Hg 253.7 Recovery = 105.02%  
All analyte(s) passed QC.

Sequence No.: 12  
Sample ID: CCB  
Analyst:

Autosampler Location: 1  
Date Collected: 3/6/2018 4:53:28 PM  
Data Type: Original

Replicate Data: CCB Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.0001	0.0006	0.0001	4:54:18 PM	Yes
2	-0.005	-0.005	-0.0001	0.0003	0.0001	4:54:47 PM	Yes
Mean:	-0.004	-0.004	-0.0001				
SD:	0.0008	0.0008	0.0000				
%RSD:	19.95%	19.95%	19.95%				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 13 Autosampler Location: 38  
Sample ID: PBS-309409 Date Collected: 3/6/2018 4:55:05 PM  
Analyst: Data Type: Original

Replicate Data: PBS-309409 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	0.0005	0.0001	4:55:55 PM	Yes
2	-0.003	-0.003	-0.0000	0.0005	0.0001	4:56:24 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0011	0.0011	0.0000				
%RSD:	45.41%	45.41%	45.41%				

Sequence No.: 14 Autosampler Location: 39  
Sample ID: LCSS-309409 Date Collected: 3/6/2018 4:56:43 PM  
Analyst: Data Type: Original

Replicate Data: LCSS-309409 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.040	1.040	0.0162	0.0612	0.0163	4:57:33 PM	Yes
2	1.048	1.048	0.0163	0.0614	0.0164	4:58:02 PM	Yes
Mean:	1.044	1.044	0.0162				
SD:	0.0057	0.0057	0.0001				
%RSD:	0.55%	0.55%	0.55%				

Sequence No.: 15 Autosampler Location: 40  
Sample ID: LOQ Date Collected: 3/6/2018 4:58:21 PM  
Analyst: Data Type: Original

Replicate Data: LOQ Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.207	0.207	0.0032	0.0127	0.0034	4:59:11 PM	Yes
2	0.206	0.206	0.0032	0.0131	0.0033	4:59:40 PM	Yes
Mean:	0.207	0.207	0.0032				
SD:	0.0002	0.0002	0.0000				
%RSD:	0.12%	0.12%	0.12%				

Sequence No.: 16 Autosampler Location: 41  
Sample ID: LOD Date Collected: 3/6/2018 4:59:59 PM  
Analyst: Data Type: Original

Replicate Data: LOD Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.100	0.100	0.0016	0.0065	0.0017	5:00:49 PM	Yes
2	0.099	0.099	0.0015	0.0066	0.0017	5:01:18 PM	Yes
Mean:	0.100	0.100	0.0015				
SD:	0.0005	0.0005	0.0000				
%RSD:	0.49%	0.49%	0.49%				

Sequence No.: 17  
 Sample ID: MDLV1  
 Analyst:

Autosampler Location: 42  
 Date Collected: 3/6/2018 5:01:38 PM  
 Data Type: Original

Replicate Data: MDLV1

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.048	0.048	0.0007	0.0037	0.0009	5:02:28 PM	Yes
2	0.048	0.048	0.0007	0.0037	0.0009	5:02:57 PM	Yes
Mean:	0.048	0.048	0.0007				
SD:	0.0001	0.0001	0.0000				
%RSD:	0.26%	0.26%	0.26				

Sequence No.: 18  
 Sample ID: MDLV2  
 Analyst:

Autosampler Location: 43  
 Date Collected: 3/6/2018 5:03:16 PM  
 Data Type: Original

Replicate Data: MDLV2

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.039	0.039	0.0006	0.0029	0.0007	5:04:05 PM	Yes
2	0.037	0.037	0.0006	0.0028	0.0007	5:04:34 PM	Yes
Mean:	0.038	0.038	0.0006				
SD:	0.0016	0.0016	0.0000				
%RSD:	4.30%	4.30%	4.30				

Sequence No.: 19  
 Sample ID: R1801688-001  
 Analyst:

Autosampler Location: 44  
 Date Collected: 3/6/2018 5:04:53 PM  
 Data Type: Original

Replicate Data: R1801688-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0001	0.0001	0.0000	5:05:43 PM	Yes
2	-0.006	-0.006	-0.0001	-0.0001	0.0000	5:06:12 PM	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.54%	0.54%	0.54				

Sequence No.: 20  
 Sample ID: R1801688-001S  
 Analyst:

Autosampler Location: 45  
 Date Collected: 3/6/2018 5:06:31 PM  
 Data Type: Original

Replicate Data: R1801688-001S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.124	1.124	0.0175	0.0648	0.0176	5:07:21 PM	Yes
2	1.132	1.132	0.0176	0.0651	0.0177	5:07:50 PM	Yes
Mean:	1.128	1.128	0.0176				
SD:	0.0057	0.0057	0.0001				
%RSD:	0.51%	0.51%	0.51				

Sequence No.: 21  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/6/2018 5:08:10 PM  
 Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.120	3.120	0.0486	0.1838	0.0487	5:08:59 PM	Yes
2	3.119	3.119	0.0485	0.1816	0.0487	5:09:28 PM	Yes

Mean: 3.120 / 3.120 0.0486  
 SD: 0.0008 0.0008 0.0000  
 %RSD: 0.03% 0.03% 0.03

QC value within limits for Hg 253.7 Recovery = 103.99%  
 All analyte(s) passed QC.

Sequence No.: 22

Autosampler Location: 1

Sample ID: CCB

Date Collected: 3/6/2018 5:09:48 PM

Analyst:

Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	-0.0000	0.0001	5:10:38 PM	Yes
2	-0.005	-0.005	-0.0001	0.0002	0.0001	5:11:07 PM	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.09%	0.09%	0.09				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 23

Autosampler Location: 46

Sample ID: R1801688-001SD

Date Collected: 3/6/2018 5:11:25 PM

Analyst:

Data Type: Original

Replicate Data: R1801688-001SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.128	1.128	0.0176	0.0647	0.0177	5:12:15 PM	Yes
2	1.127	1.127	0.0175	0.0654	0.0177	5:12:44 PM	Yes
Mean:	1.127	1.127	0.0175				
SD:	0.0009	0.0009	0.0000				
%RSD:	0.08%	0.08%	0.08				

Sequence No.: 24

Autosampler Location: 47

Sample ID: R1801700-001

Date Collected: 3/6/2018 5:13:03 PM

Analyst:

Data Type: Original

Replicate Data: R1801700-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.333	0.333	0.0052	0.0200	0.0053	5:13:54 PM	Yes
2	0.328	0.328	0.0051	0.0192	0.0052	5:14:23 PM	Yes
Mean:	0.331	0.331	0.0051				
SD:	0.0038	0.0038	0.0001				
%RSD:	1.16%	1.16%	1.16				

Sequence No.: 25

Autosampler Location: 48

Sample ID: R1801700-002

Date Collected: 3/6/2018 5:14:42 PM

Analyst:

Data Type: Original

Replicate Data: R1801700-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.189	0.189	0.0029	0.0112	0.0031	5:15:33 PM	Yes
2	0.190	0.190	0.0030	0.0116	0.0031	5:16:02 PM	Yes
Mean:	0.190	0.190	0.0030				
SD:	0.0012	0.0012	0.0000				
%RSD:	0.61%	0.61%	0.61				

Sequence No.: 26

Autosampler Location: 49

Sample ID: R1801700-003

Date Collected: 3/6/2018 5:16:22 PM

Analyst:

Data Type: Original

Replicate Data: R1801700-003

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.168	0.168	0.0026	0.0108	0.0028	5:17:14 PM	Yes
2	0.164	0.164	0.0026	0.0099	0.0027	5:17:42 PM	Yes
Mean:	0.166	0.166	0.0026				
SD:	0.0026	0.0026	0.0000				
%RSD:	1.54%	1.54%	1.54				

Sequence No.: 27  
Sample ID: R1801700-004  
Analyst:

Autosampler Location: 50  
Date Collected: 3/6/2018 5:18:03 PM  
Data Type: Original

Replicate Data: R1801700-004

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.194	0.194	0.0030	0.0115	0.0031	5:18:52 PM	Yes
2	0.192	0.192	0.0030	0.0115	0.0031	5:19:21 PM	Yes
Mean:	0.193	0.193	0.0030				
SD:	0.0008	0.0008	0.0000				
%RSD:	0.43%	0.43%	0.43				

Sequence No.: 28  
Sample ID: R1801700-005  
Analyst:

Autosampler Location: 51  
Date Collected: 3/6/2018 5:19:41 PM  
Data Type: Original

Replicate Data: R1801700-005

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.563	0.563	0.0088	0.0328	0.0089	5:20:30 PM	Yes
2	0.567	0.567	0.0088	0.0331	0.0090	5:20:59 PM	Yes
Mean:	0.565	0.565	0.0088				
SD:	0.0025	0.0025	0.0000				
%RSD:	0.45%	0.45%	0.45				

Sequence No.: 29  
Sample ID: R1701700-006  
Analyst:

Autosampler Location: 52  
Date Collected: 3/6/2018 5:21:19 PM  
Data Type: Original

*Handwritten:* 3/7/18 R1801700-006

Replicate Data: R1701700-006

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.308	0.308	0.0048	0.0182	0.0049	5:22:09 PM	Yes
2	0.311	0.311	0.0048	0.0186	0.0050	5:22:38 PM	Yes
Mean:	0.309	0.309	0.0048				
SD:	0.0022	0.0022	0.0000				
%RSD:	0.70%	0.70%	0.70				

Sequence No.: 30  
Sample ID: R1801700-007  
Analyst:

Autosampler Location: 53  
Date Collected: 3/6/2018 5:22:57 PM  
Data Type: Original

Replicate Data: R1801700-007

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.091	0.091	0.0014	0.0059	0.0016	5:23:47 PM	Yes
2	0.089	0.089	0.0014	0.0054	0.0015	5:24:15 PM	Yes
Mean:	0.090	0.090	0.0014				
SD:	0.0018	0.0018	0.0000				
%RSD:	2.02%	2.02%	2.02				

Sequence No.: 31  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/6/2018 5:24:35 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.151	3.151	0.0490	0.1819	0.0492	5:25:25 PM	Yes
2	3.126	3.126	0.0487	0.1826	0.0488	5:25:54 PM	Yes
Mean:	3.139	3.139	0.0489				
SD:	0.0177	0.0177	0.0003				
%RSD:	0.56%	0.56%	0.56				

QC value within limits for Hg 253.7 Recovery = 104.62%  
 All analyte(s) passed QC.

Sequence No.: 32  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 3/6/2018 5:26:13 PM  
 Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	0.0001	0.0001	5:27:02 PM	Yes
2	-0.007	-0.007	-0.0001	-0.0003	0.0000	5:27:31 PM	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.0016	0.0016	0.0000				
%RSD:	28.40%	28.40%	28.40				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 33  
 Sample ID: R1801739-001  
 Analyst:

Autosampler Location: 54  
 Date Collected: 3/6/2018 5:27:50 PM  
 Data Type: Original

## Replicate Data: R1801739-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.530	0.530	0.0083	0.0309	0.0084	5:28:40 PM	Yes
2	0.536	0.536	0.0083	0.0320	0.0085	5:29:09 PM	Yes
Mean:	0.533	0.533	0.0083				
SD:	0.0040	0.0040	0.0001				
%RSD:	0.76%	0.76%	0.76				

Sequence No.: 34  
 Sample ID: R1801792-006  
 Analyst:

Autosampler Location: 55  
 Date Collected: 3/6/2018 5:29:28 PM  
 Data Type: Original

## Replicate Data: R1801792-006

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.167	0.167	0.0026	0.0102	0.0027	5:30:18 PM	Yes
2	0.165	0.165	0.0026	0.0098	0.0027	5:30:47 PM	Yes
Mean:	0.166	0.166	0.0026				
SD:	0.0012	0.0012	0.0000				
%RSD:	0.71%	0.71%	0.71				

Sequence No.: 35  
 Sample ID: R1801792-007  
 Analyst:

Autosampler Location: 56  
 Date Collected: 3/6/2018 5:31:07 PM  
 Data Type: Original

## Replicate Data: R1801792-007

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	0.174	0.174	0.0027	0.0102	0.0028	5:31:56 PM	Yes
2	0.175	0.175	0.0027	0.0108	0.0029	5:32:26 PM	Yes
Mean:	0.174	0.174	0.0027				
SD:	0.0011	0.0011	0.0000				
%RSD:	0.62%	0.62%	0.62				

Sequence No.: 36  
 Sample ID: R1801792-008  
 Analyst:

Autosampler Location: 57  
 Date Collected: 3/6/2018 5:32:45 PM  
 Data Type: Original

Replicate Data: R1801792-008  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.180	0.180	0.0028	0.0107	0.0029	5:33:35 PM	Yes
2	0.180	0.180	0.0028	0.0108	0.0029	5:34:04 PM	Yes
Mean:	0.180	0.180	0.0028				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.01%	0.01%	0.01				

Sequence No.: 37  
 Sample ID: R1801792-009  
 Analyst:

Autosampler Location: 58  
 Date Collected: 3/6/2018 5:34:23 PM  
 Data Type: Original

Replicate Data: R1801792-009  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.329	0.329	0.0051	0.0198	0.0053	5:35:13 PM	Yes
2	0.325	0.325	0.0051	0.0191	0.0052	5:35:42 PM	Yes
Mean:	0.327	0.327	0.0051				
SD:	0.0028	0.0028	0.0000				
%RSD:	0.86%	0.86%	0.86				

Sequence No.: 38  
 Sample ID: R1801804-004  
 Analyst:

Autosampler Location: 59  
 Date Collected: 3/6/2018 5:36:01 PM  
 Data Type: Original

Replicate Data: R1801804-004  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.025	0.025	0.0004	0.0020	0.0005	5:36:52 PM	Yes
2	0.025	0.025	0.0004	0.0021	0.0005	5:37:21 PM	Yes
Mean:	0.025	0.025	0.0004				
SD:	0.0001	0.0001	0.0000				
%RSD:	0.36%	0.36%	0.36				

Sequence No.: 39  
 Sample ID: R1801804-005  
 Analyst:

Autosampler Location: 60  
 Date Collected: 3/6/2018 5:37:41 PM  
 Data Type: Original

Replicate Data: R1801804-005  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.457	0.457	0.0071	0.0263	0.0072	5:38:31 PM	Yes
2	0.460	0.460	0.0072	0.0268	0.0073	5:39:00 PM	Yes
Mean:	0.458	0.458	0.0071				
SD:	0.0026	0.0026	0.0000				
%RSD:	0.57%	0.57%	0.57				

Sequence No.: 40  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 3/6/2018 5:39:20 PM  
 Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.200	0.200	0.0031	0.0118	0.0032	5:40:09 PM	Yes
2	0.197	0.197	0.0031	0.0117	0.0032	5:40:39 PM	Yes
Mean:	0.198	0.198	0.0031				
SD:	0.0024	0.0024	0.0000				
%RSD:	1.23%	1.23%	1.23				

QC value within limits for Hg 253.7 Recovery = 99.15%  
All analyte(s) passed QC.

Sequence No.: 41

Autosampler Location: 8

Sample ID: CCV

Date Collected: 3/6/2018 5:40:58 PM

Analyst:

Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.141	3.141	0.0489	0.1829	0.0490	5:41:47 PM	Yes
2	3.132	3.132	0.0487	0.1824	0.0489	5:42:16 PM	Yes
Mean:	3.137	3.137	0.0488				
SD:	0.0067	0.0067	0.0001				
%RSD:	0.21%	0.21%	0.21				

QC value within limits for Hg 253.7 Recovery = 104.55%  
All analyte(s) passed QC.

Sequence No.: 42

Autosampler Location: 1

Sample ID: CCB

Date Collected: 3/6/2018 5:42:35 PM

Analyst:

Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.0001	-0.0002	0.0001	5:43:24 PM	Yes
2	-0.003	-0.003	-0.0000	0.0004	0.0001	5:43:53 PM	Yes
Mean:	-0.004	-0.004	-0.0001				
SD:	0.0009	0.0009	0.0000				
%RSD:	23.22%	23.22%	23.22				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 43

Autosampler Location: 61

Sample ID: Sample061

Date Collected: 3/6/2018 5:44:12 PM

Analyst:

Data Type: Original

## Replicate Data: Sample061

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.007	-0.007	-0.0001	-0.0001	0.0000	5:45:03 PM	Yes
2	-0.007	-0.007	-0.0001	-0.0001	0.0000	5:45:32 PM	Yes
Mean:	-0.007	-0.007	-0.0001				
SD:	0.0003	0.0003	0.0000				
%RSD:	4.22%	4.22%	4.22				



# Preparation Information Benchsheet

Prep Run#: 309409  
Team: Metals/NMANSEN

Prep Workflow: HgDigS  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 3/5/18 04:29 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1801946-01	MB		0.6g	7471B/Hg, Hg DOD				100.00mL			HB: 4 Well: E2 Temperature: 92.0C/94.0C Correction Factor: -1.0C Corr. Temp: 91.0C/93.0C
2	RQ1801946-02	LCS		0.6g	7471B/Hg, Hg DOD				100.00mL		1.0000 mL/188430	Digest on HB: 11:12 Digest off HB: 11:42
3	R1800843-004	Hg Soil LODV	.01	0.6g	7471B/Hg DOD				100.00mL			
4	R1801688-001	VMAC Canandaigua	.01	0.6200g	7471B/Hg				100.00mL			
5	RQ1801946-03	R1801688-001 MS	.01	0.6300g	7471B/Hg				100.00mL		1.0000 mL/188430	
6	RQ1801946-04	R1801688-001 DMS	.01	0.6g	7471B/Hg				100.00mL		1.0000 mL/188430	
7	R1801700-001	SED SWS-1	.03	0.6200g	7471B/Hg				100.00mL			
8	R1801700-002	SED SWS-4	.02	0.6g	7471B/Hg				100.00mL			
9	R1801700-003	SED SWS-5	.02	0.6400g	7471B/Hg				100.00mL			
10	R1801700-004	SED SWS-5R	.01	0.6500g	7471B/Hg				100.00mL			
11	R1801700-005	SED SWS-7	.02	0.6500g	7471B/Hg				100.00mL			
12	R1801700-006	SED SWS-6	.02	0.6g	7471B/Hg				100.00mL			
13	R1801700-007	SED SWS-2	.01	0.6300g	7471B/Hg				100.00mL			
14	R1801739-001	Biosolids	.01	0.6300g	7471B/Hg				100.00mL			
15	R1801792-006	M-1	.01	0.6400g	7471B/Hg				100.00mL			
16	R1801792-007	M-2	.01	0.6400g	7471B/Hg				100.00mL			
17	R1801792-008	M-3	.01	0.6400g	7471B/Hg				100.00mL			
18	R1801792-009	M-4	.01	0.6200g	7471B/Hg				100.00mL			
19	R1801804-004	TP-01 (5.0)	.01	0.6400g	7471B/Hg				100.00mL			
20	R1801804-005	TP-14 (8.5)	.01	0.6300g	7471B/Hg				100.00mL			

## Spiking Solutions

Name: Mercury LCSW Metals Hg

Inventory ID 188430

Logbook Ref: 188430

Expires On: 03/07/2018

## Preparation Materials

1:1 HCl Metals Grade M7600004D (187996)

Hydroxylamine Hydrochloride Reagent Grade M7600003R (185155)

1:1 Nitric Acid Metals Grade M7600004S (188218)

Potassium Permanganate RG KMnO4 M7600003S (185356)

Hot Block Cups 125 mL 1703076 (184034)

Thermometer 377 (182584)

## Preparation Steps

Step: Digestion

Started: 3/5/18 16:29

Finished: 3/6/18 15:37

By: NMANSEN

Comments

# Preparation Information Benchsheet

Prep Run#: 309409  
Team: Metals/NMANSEN

Prep Workflow: HgDigS  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 3/5/18 04:29 PM

Comments: Prepped with curve 1175900905

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>[Signature]</u>	Date: <u>3/6/18</u>	<u>Extracts Examined</u>	
Received By: <u>RAOI</u>	Date: <u>3/6/18</u>	Yes	No

Date: 3/5/18

Analyst: NM

Prep Number: ICP 309408 Hg 309409

Sample	ICP (g)	Hg (g)	Sample Description
MS	1.00	0.60	W-C
LCS	1.00	0.60	W-C
R1800843-004	-	0.60	C-L
R1801688-001	-	0.62	Br-F
MS	-	0.63	Br-F
MSD	-	0.60	Br-F
R1801700-001	1.00	0.62	Br-F
-002	1.04	0.60	Br-F
-003	1.00	0.64	Br-F
-004	1.01	0.65	Br-F
-005	1.02	0.65	Br-F
-006	1.03	0.60	Br-M
-007	1.04	0.63	Br-F
R1800739-001	1.02	0.63	Bk-M
R1800792-001	1.02	-	Br-F
-002	1.00	-	Br-F
-003	1.00	-	Br-M
-004	1.01	-	Br-M
-005	1.04	-	Br-F
-006	1.05	0.64	Br-F
-007	1.00	0.64	Br-F
-008	1.04	0.64	Br-F
-009	1.02	0.62	Br-F
<del>R1801804</del>			
R1801804-004	1.03	0.64	Br-M
MS	1.04	-	Br-M
MSD	1.04	-	Br-M
R1801804-005	1.04	0.63	Br-F
R1801809-001	1.02	-	Y-L

Color  
 Br = Brown  
 W = White  
 C = Clear Colorless  
 N1 3/5/18  
 Bk = Black  
 Y = Yellow

Grain Size  
 C = Coarse  
 M = Medium  
 F = Fine  
 L = Liquid

NM  
 3/5/18

# MERCURY CALIBRATION / CRDL STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg Cal Stk A	M7600004V	1000	1.00	100	10	0.5% HNO <sub>3</sub>	NM 3/5/18	A	M7600004S	3/12/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg Cal StkB	Hg Cal Stk A	10.0	1.00	100	0.100	0.5% HNO <sub>3</sub>	NM 3/5/18	B	M7600004S	M28
							NM 3/6/18	C	M7600004S	M28
								D		
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CAL Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/Soil	Analyst/Date	Letter ID	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	0.05	Soils- Dilute to 10mL w/ DI. Final vol. 100mL after digest. Water - dilute to Final Vol of 25 mL with DI before digest.	0.200	Water	NM 3/5/18	I	M26, M31
0.500			0.500	0.125		0.500	Soil	NM 3/6/18	J	M26
1.00			1.00	0.25		1.00			K	
2.00			2.00	0.5		2.00			L	
5.00			5.00	1.25		5.00			M	
10.0			10.0	2.5		10.0			N	
CRA			0.200	0.05		0.200			O	

MERCURY CCV / LCSW / MS STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg CCV Stk A	M7600001Q	1000	1.00	100	10	0.5%HNO3	NM 3/5/18	A	M7600004S	3/12/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg CCV StkB	Hg CCV Stk A	10.0	1.00	100	0.100	0.5%HNO3	NM 3/5/18	B	M7600004S	M28
							NM 3/6/18	C	M7600004S	M28
								D		
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CCV Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
CCV	Hg CCV Stk B	0.100	3.00	0.75	Soils- Final vol. 100mL after digest.	3.00	Water	NM 3/5/18	I	M31, M26
LCS / MS			1.00	0.25		1.00	Soil	NM 3/6/18	J	M26
					Water - Final Vol of 25 mL before digest.				K	
									L	
									M	
									N	
									O	

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 582856 Method/Testcode: 7471B/Hg

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801946-01	Mercury, Total	MB		Soil	0.00 µg/L	0.6 g	0.033 mg/Kg U	1	0.010	0.033			3/6/18 16:56	N	III
RQ1801946-02	Mercury, Total	LCS		Soil	1.04 µg/L	0.6 g	0.174 mg/Kg	1	0.010	0.033	104		3/6/18 16:58	N	III
RQ1801946-05	Mercury, Total	MDLV		Soil	0.05 µg/L	0.6 g	0.033 mg/Kg U	1	0.010	0.033			3/6/18 17:02:57	N	IV
RQ1801946-06	Mercury, Total	MDLV		Soil	0.04 µg/L	0.6 g	0.033 mg/Kg U	1	0.010	0.033			3/6/18 17:04:34	N	IV
R1801688-001	Mercury, Total	N/A		Soil	-0.01 µg/L	0.6200 g	0.033 mg/Kg U	1	0.010	0.033			3/6/18 17:06	N	II
RQ1801946-03	Mercury, Total	MS	R1801688-001	Soil	1.13 µg/L	0.6300 g	0.183 mg/Kg	1	0.010	0.032	113		3/6/18 17:07	N	II
RQ1801946-04	Mercury, Total	DMS	R1801688-001	Soil	1.13 µg/L	0.6 g	0.192 mg/Kg	1	0.010	0.034	113	5	3/6/18 17:12	N	II
R1801700-001	Mercury, Total	N/A		Soil	0.33 µg/L	0.6200 g	0.112 mg/Kg	1	0.020	0.067			3/6/18 17:14	N	IV
R1801700-002	Mercury, Total	N/A		Soil	0.19 µg/L	0.6 g	0.084 mg/Kg J	1	0.026	0.088			3/6/18 17:16	N	IV
R1801700-003	Mercury, Total	N/A		Soil	0.17 µg/L	0.6400 g	0.057 mg/Kg J	1	0.020	0.068			3/6/18 17:17	N	IV
R1801700-004	Mercury, Total	N/A		Soil	0.19 µg/L	0.6500 g	0.043 mg/Kg J	1	0.013	0.044			3/6/18 17:19	N	IV
R1801700-005	Mercury, Total	N/A		Soil	0.57 µg/L	0.6500 g	0.137 mg/Kg	1	0.014	0.048			3/6/18 17:20	N	IV
R1801700-006	Mercury, Total	N/A		Soil	0.31 µg/L	0.6 g	0.086 mg/Kg	1	0.016	0.055			3/6/18 17:22	N	IV
R1801700-007	Mercury, Total	N/A		Soil	0.09 µg/L	0.6300 g	0.018 mg/Kg J	1	0.012	0.040			3/6/18 17:24	N	IV
R1801739-001	Mercury, Total	N/A		Soil	0.53 µg/L	0.6300 g	0.29 mg/Kg	1	0.04	0.11			3/6/18 17:29	N	I
R1801792-006	Mercury, Total	N/A		Soil	0.17 µg/L	0.6400 g	0.033 mg/Kg U	1	0.010	0.033			3/6/18 17:30	N	II
R1801792-007	Mercury, Total	N/A		Soil	0.17 µg/L	0.6400 g	0.036 mg/Kg U	1	0.011	0.036			3/6/18 17:32	N	II
R1801792-008	Mercury, Total	N/A		Soil	0.18 µg/L	0.6400 g	0.038 mg/Kg U	1	0.011	0.038			3/6/18 17:34	N	II
R1801792-009	Mercury, Total	N/A		Soil	0.33 µg/L	0.6200 g	0.060 mg/Kg	1	0.011	0.036			3/6/18 17:35	N	II
R1801804-004	Mercury, Total	N/A		Soil	0.02 µg/L	0.6400 g	0.035 mg/Kg U	1	0.011	0.035			3/6/18 17:37	N	IV
R1801804-005	Mercury, Total	N/A		Soil	0.46 µg/L	0.6300 g	0.089 mg/Kg	1	0.012	0.039			3/6/18 17:39	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 582855 Method/Testcode: 7471B/Hg DOD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1801946-01	Mercury	MB		Soil	0.00 µg/L	0.6 g	0.033 mg/Kg U	1 /	0.010	0.033			3/6/18 16:56	N	III
RQ1801946-02	Mercury	LCS		Soil	1.04 µg/L	0.6 g	0.174 mg/Kg	1 /	0.010	0.033	104		3/6/18 16:58	N	III
RQ1802104-02	Mercury	LCS		Soil	0.21 µg/L	0.6 g	0.0344 mg/Kg	1 /	0.010	0.033	103		3/6/18 16:59	N	III
RQ1802104-01	Mercury	LODV		Soil	0.10 µg/L	0.6 g	0.0166 mg/Kg J	1 /	0.010	0.033	100		3/6/18 17:01	N	III
R1800843-004	Mercury	N/A		Soil	0.10 µg/L	0.6 g	0.017 mg/Kg J	1 /	0.010	0.033			3/6/18 17:01:00	N	III

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	960	96	1000	962	96	972	97	P
Barium	10000	10300	103	10000	10400	104	10400	104	P
Cadmium	500	501	100	500	503	101	504	101	P
Mercury	3.00	3.18	106	3.00	3.15	105	3.12	104	CV
Chromium	500	520	104	500	524	105	526	105	P
Lead	500	501	100	500	503	101	502	100	P
Selenium	500	483	97	500	487	97	489	98	P
Silver	500	481	96	500	483	97	485	97	P

Comments:



**METALS**

-2A-

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	962	96	956	96	P
Barium				10000	10400	104	10300	103	P
Cadmium				500	503	101	500	100	P
Mercury				3.00	3.14	105	3.14	105	CV
Chromium				500	527	105	525	105	P
Lead				500	504	101	502	100	P
Selenium				500	479	96	481	96	P
Silver				500	484	97	482	96	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	955	96	954	95	P
Barium				10000	10200	102	10200	102	P
Cadmium				500	496	99	496	99	P
Chromium				500	521	104	522	104	P
Lead				500	500	100	499	100	P
Selenium				500	474	95	474	95	P
Silver				500	478	96	478	96	P

Comments:

METALS

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BLANKS

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	C	2	C	3	C	C		
Arsenic	2.90 U	2.90	U	2.90	U	2.90	U	0.290	U	P
Barium	1.50 J	0.73	U	1.10	J	1.10	J	0.073	U	P
Cadmium	0.17 U	0.17	U	0.17	U	0.17	U	0.030	J	P
Mercury	0.057 U	0.057	U	0.057	U	0.057	U	0.009	U	CV
Chromium	0.91 U	0.91	U	0.91	U	0.91	U	0.210	J	P
Lead	1.94 U	-3.00	J	1.94	U	1.94	U	0.194	U	P
Selenium	3.77 U	3.77	U	3.77	U	3.77	U	0.377	U	P
Silver	0.66 U	0.66	U	0.66	U	0.66	U	0.066	U	P

Comments:

METALS

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BLANKS

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		2.90	U	2.90	U	2.90	U			P
Barium		1.50	J	1.90	J	2.50	J			P
Cadmium		0.17	U	0.17	U	0.17	U			P
Mercury		0.057	U							CV
Chromium		0.91	U	0.91	U	0.91	U			P
Lead		-2.30	J	1.94	U	1.94	U			P
Selenium		3.77	U	3.77	U	3.77	U			P
Silver		0.66	U	0.66	U	0.66	U			P

Comments:

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1801804  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	19:09				X	X		X	X				X						X	X					
STANDARD 1	1.00	19:12				X	X		X	X				X						X	X					
STANDARD 2	1.00	19:15				X	X		X	X				X						X	X					
STANDARD 3	1.00	19:19				X	X		X	X				X						X	X					
STANDARD 4	1.00	19:22				X	X		X	X				X						X	X					
STANDARD 5	1.00	19:26				X	X		X	X				X						X	X					
ICV1	1.00	19:29				X	X		X	X				X						X	X					
ICB1	1.00	19:32				X	X		X	X				X						X	X					
CRDL1	1.00	19:36				X	X		X	X				X						X	X					
ICS-A1	1.00	19:39				X	X		X	X				X						X	X					
ICS-AB1	1.00	19:42				X	X		X	X				X						X	X					
CCV1	1.00	19:46				X	X		X	X				X						X	X					
CCB1	1.00	19:49				X	X		X	X				X						X	X					
PBS	1.00	19:52				X	X		X	X				X						X	X					
LCSS	1.00	19:56				X	X		X	X				X						X	X					
ZZZZZ	1.00	19:59																								
ZZZZZ	1.00	20:02																								
ZZZZZ	1.00	20:06																								
ZZZZZ	1.00	20:09																								
ZZZZZ	1.00	20:12																								
ZZZZZ	1.00	20:16																								
ZZZZZ	1.00	20:19																								
ZZZZZ	1.00	20:22																								
CCV2	1.00	20:26				X	X		X	X				X						X	X					
CCB2	1.00	20:29				X	X		X	X				X						X	X					
ZZZZZ	1.00	20:32																								
ZZZZZ	1.00	20:36																								
ZZZZZ	1.00	20:39																								
ZZZZZ	1.00	20:43																								
ZZZZZ	1.00	20:46																								
ZZZZZ	1.00	20:49																								
ZZZZZ	1.00	20:53																								
ZZZZZ	1.00	20:56																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
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ANALYSIS RUN LOG

Contract: R1801804  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
ZZZZZZ	1.00	20:59																									
TP-01 (5.0)	1.00	21:03			X	X		X	X				X							X	X						
CCV3	1.00	21:06			X	X		X	X				X							X	X						
CCB3	1.00	21:09			X	X		X	X				X							X	X						
TP-01 (5.0)S	1.00	21:13			X	X		X	X				X							X	X						
TP-01 (5.0)SD	1.00	21:16			X	X		X	X				X							X	X						
TP-01 (5.0)A	1.00	21:19			X	X		X	X				X							X	X						
TP-01 (5.0)L	5.00	21:23			X	X		X	X				X							X	X						
TP-14 (8.5)	1.00	21:26			X	X		X	X				X							X	X						
ZZZZZZ	1.00	21:29																									
ZZZZZZ	10.00	21:33																									
ZZZZZZ	10.00	21:36																									
ZZZZZZ	10.00	21:39																									
ZZZZZZ	10.00	21:43																									
CCV4	1.00	21:46			X	X		X	X				X							X	X						
CCB4	1.00	21:50			X	X		X	X				X							X	X						
ZZZZZZ	10.00	21:53																									
ZZZZZZ	10.00	21:56																									
ZZZZZZ	10.00	22:00																									
CCV5	1.00	22:03			X	X		X	X				X							X	X						
CCB5	1.00	22:06			X	X		X	X				X							X	X						
CRDL2	1.00	22:10			X	X		X	X				X							X	X						
ICS-A2	1.00	22:13			X	X		X	X				X							X	X						
ICS-AB2	1.00	22:16			X	X		X	X				X							X	X						
ZZZZZZ	1.00	22:20																									
ZZZZZZ	1.00	22:23																									
ZZZZZZ	1.00	22:26																									
CCV6	1.00	22:30			X	X		X	X				X							X	X						
CCB6	1.00	22:33			X	X		X	X				X							X	X						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801804  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)  
 Instrument ID Number: PE FAA/CVAA Method: CV  
 Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
Calib Blank	1.00	04:36															X									
0.2ppb std	1.00	04:38															X									
0.5ppb std	1.00	04:40															X									
1.0ppb std	1.00	04:41															X									
2.0ppb std	1.00	04:43															X									
5.0ppb std	1.00	04:45															X									
10.0ppb std	1.00	04:46															X									
ICV1	1.00	04:48															X									
ICB1	1.00	04:49															X									
CRDL1	1.00	04:51															X									
CCV1	1.00	04:53															X									
CCB1	1.00	04:54															X									
PBS	1.00	04:56															X									
LCSS	1.00	04:58															X									
ZZZZZZ	1.00	04:59																								
ZZZZZZ	1.00	05:01																								
ZZZZZZ	1.00	05:02																								
ZZZZZZ	1.00	05:04																								
ZZZZZZ	1.00	05:06																								
ZZZZZZ	1.00	05:07																								
CCV2	1.00	05:09															X									
CCB2	1.00	05:11															X									
ZZZZZZ	1.00	05:12																								
ZZZZZZ	1.00	05:14																								
ZZZZZZ	1.00	05:16																								
ZZZZZZ	1.00	05:17																								
ZZZZZZ	1.00	05:19																								
ZZZZZZ	1.00	05:20																								
ZZZZZZ	1.00	05:22																								
ZZZZZZ	1.00	05:24																								
CCV3	1.00	05:25															X									
CCB3	1.00	05:27															X									
ZZZZZZ	1.00	05:29																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-01 (5.0)

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/6/2018 End Date: 3/6/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N A	T L	V	Z N	C N
ZZZZZZ	1.00	05:30																									
ZZZZZZ	1.00	05:32																									
ZZZZZZ	1.00	05:34																									
ZZZZZZ	1.00	05:35																									
TP-01 (5.0)	1.00	05:37																									
TP-14 (8.5)	1.00	05:39																									
CRDL2	1.00	05:40																									
CCV4	1.00	05:42																									
CCB4	1.00	05:43																									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



**METALS**

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**PREPARATION LOG**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Method: P

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
LCSS	3/5/2018	1.00	100.0
PBS	3/5/2018	1.00	100.0
TP-01 (5.0)	3/5/2018	1.03	100.0
TP-01 (5.0) S	3/5/2018	1.04	100.0
TP-01 (5.0) SD	3/5/2018	1.04	100.0
TP-14 (8.5)	3/5/2018	1.04	100.0

Comments:

**METALS**

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**PREPARATION LOG**

Contract: R1801804

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-01 (5.0)

Method: CV

Sample ID	Preparation Date	Initial Weight (g)	Final Volume (mL)
LCSS	3/5/2018	0.60	100.0
PBS	3/5/2018	0.60	100.0
TP-01 (5.0)	3/5/2018	0.64	100.0
TP-14 (8.5)	3/5/2018	0.63	100.0

Comments:



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-01 (5.0)  
**Lab Code:** R1801804-004

**Service Request:** R1801804  
**Date Collected:** 02/15/18 09:15  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	89.0	Percent	-	-	1	03/07/18 17:30	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-14 (8.5)  
**Lab Code:** R1801804-005

**Service Request:** R1801804  
**Date Collected:** 02/16/18 09:35  
**Date Received:** 02/19/18 15:59  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	81.4	Percent	-	-	1	03/07/18 17:30	

# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot:

582874

Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801818-001	Total Solids	N/A		Soil	67.86 Percent		67.9 Percent	1 ✓					3/7/18 17:30	N	IV
R1801715-001	Total Solids	N/A		Soil	93.41 Percent		93.4 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-002	Total Solids	N/A		Soil	82.49 Percent		82.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-003	Total Solids	N/A		Soil	91.90 Percent		91.9 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-004	Total Solids	N/A		Soil	90.90 Percent		90.9 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-005	Total Solids	N/A		Soil	88.00 Percent		88.0 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-006	Total Solids	N/A		Soil	89.46 Percent		89.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-007	Total Solids	N/A		Soil	88.08 Percent		88.1 Percent	1 ✓					3/7/18 17:30	N	II
R1801718-001	Total Solids	N/A		Soil	87.61 Percent		87.6 Percent	1 ✓					3/7/18 17:30	N	I
R1801804-004	Total Solids	N/A		Soil	89.04 Percent		89.0 Percent	1 ✓					3/7/18 17:30	N	IV
R1801804-005	Total Solids	N/A		Soil	81.35 Percent		81.4 Percent	1 ✓					3/7/18 17:30	N	IV
RQ1802071-01	Total Solids	DUP	R1801804-005	Soil	82.93 Percent		82.9 Percent	1 ✓				2	3/7/18 17:30	N	IV
R1801830-001	Total Solids	N/A		Soil	88.74 Percent		88.7 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-001	Total Solids	N/A		Soil	89.33 Percent		89.3 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-002	Total Solids	N/A		Soil	90.88 Percent		90.9 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-003	Total Solids	N/A		Soil	85.54 Percent		85.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-004	Total Solids	N/A		Soil	92.50 Percent		92.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-005	Total Solids	N/A		Soil	87.70 Percent		87.7 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-006	Total Solids	N/A		Soil	84.70 Percent		84.7 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-007	Total Solids	N/A		Soil	89.34 Percent		89.3 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-008	Total Solids	N/A		Soil	90.92 Percent		90.9 Percent	1 ✓					3/7/18 17:30	N	II
RQ1802071-02	Total Solids	DUP	R1801857-008	Soil	90.07 Percent		90.1 Percent	1 ✓				<1	3/7/18 17:30	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot: 582875 Method/Testcode: ALS SOP/Total Solids

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt.</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC?</u>	<u>Tier</u>
R1801861-002	Total Solids	N/A		Soil	86.77 Percent		86.8 Percent	1 ✓					3/7/18 17:30	N	II
R1801882-001	Total Solids	N/A		Soil	78.57 Percent		78.6 Percent	1 ✓					3/7/18 17:30	N	IV
R1801882-002	Total Solids	N/A		Soil	84.58 Percent		84.6 Percent	1 ✓					3/7/18 17:30	N	IV
R1801882-003	Total Solids	N/A		Soil	82.86 Percent		82.9 Percent	1 ✓					3/7/18 17:30	N	IV
R1801882-004	Total Solids	N/A		Soil	72.47 Percent		72.5 Percent	1 ✓					3/7/18 17:30	N	IV
RQ1802072-01	Total Solids	DUP	R1801882-004	Soil	73.20 Percent		73.2 Percent	1 ✓				1	3/7/18 17:30	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW  
 Pipet: NA  
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID R-BALANCE-17  
 Class 1 Weight Initial: 10.01  
 Date: 3/7/18  
 Time: 17:30  
 Oven ID 7  
 Final: 9.99

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
1	MB	219101	B) 2.6200	Dry wgt (A): 2.6000		1.00
			C)	550 wgt (D):		
2	R1801818-001	219102	B) 2.5600	Dry wgt (A): 9.4000		67.86
			C) 12.6400	550 wgt (D):		
3	R1801715-001	219103	B) 2.5600	Dry wgt (A): 12.6300		93.41
			C) 13.3400	550 wgt (D):		
4	R1801715-002	219104	B) 2.5700	Dry wgt (A): 12.1800		82.49
			C) 14.2200	550 wgt (D):		
5	R1801715-003	219105	B) 2.5800	Dry wgt (A): 12.1100		91.90
			C) 12.9500	550 wgt (D):		
6	R1801715-004	219106	B) 2.5900	Dry wgt (A): 12.7800		90.90
			C) 13.8000	550 wgt (D):		
7	R1801715-005	219107	B) 2.6000	Dry wgt (A): 11.6200		88.00
			C) 12.8500	550 wgt (D):		
8	R1801715-006	219108	B) 2.5900	Dry wgt (A): 12.6100		89.46
			C) 13.7900	550 wgt (D):		
9	R1801715-007	219109	B) 2.6000	Dry wgt (A): 11.9100		88.08
			C) 13.1700	550 wgt (D):		
10	R1801718-001	219110	B) 2.5700	Dry wgt (A): 12.1900		87.61
			C) 13.5500	550 wgt (D):		
11	R1801804-004	219111	B) 2.6200	Dry wgt (A): 12.9400		89.04
			C) 14.2100	550 wgt (D):		
12	R1801804-005	219112	B) 2.5900	Dry wgt (A): 11.9700		81.35
			C) 14.1200	550 wgt (D):		
13	R1801804-005 DUP	219113	B) 2.6300	Dry wgt (A): 13.1700		82.93
			C) 15.3400	550 wgt (D):		
14	R1801830-001	219114	B) 2.6000	Dry wgt (A): 12.1400		88.74
			C) 13.3500	550 wgt (D):		
15	R1801857-001	219115	B) 2.6200	Dry wgt (A): 11.7500		89.33
			C) 12.8400	550 wgt (D):		
16	R1801857-002	219116	B) 2.6200	Dry wgt (A): 12.9800		90.88
			C) 14.0200	550 wgt (D):		
17	R1801857-003	219117	B) 2.6000	Dry wgt (A): 11.1800		85.54
			C) 12.6300	550 wgt (D):		
18	R1801857-004	219118	B) 2.6300	Dry wgt (A): 12.1200		92.50
			C) 12.8900	550 wgt (D):		
19	R1801857-005	219119	B) 2.6100	Dry wgt (A): 11.8100		87.70
			C) 13.1000	550 wgt (D):		
20	R1801857-006	219120	B) 2.6100	Dry wgt (A): 11.5200		84.70
			C) 13.1300	550 wgt (D):		



Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW Date: 3/7/18  
 Pipet: NA Time: 17:30  
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID R-BALANCE-17 Oven ID 7  
 Class 1 Weight Initial: 10.01 Final: 9.99

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
21	R1801857-007	219121	B) 2.5900	Dry wgt (A): 13.3200		89.34
			C) 14.6000	550 wgt (D):		
22	R1801857-008	219122	B) 2.6200	Dry wgt (A): 12.8300		90.92
			C) 13.8500	550 wgt (D):		
23	R1801857-008 DUP	219123	B) 2.6000	Dry wgt (A): 12.3000		90.06
			C) 13.3700	550 wgt (D):		
24	MB	219124	B) 2.5800	Dry wgt (A): 2.6000		1.00
			C)	550 wgt (D):		
25	R1801861-002	219125	B) 2.5700	Dry wgt (A): 13.3900		86.77
			C) 15.0400	550 wgt (D):		
26	R1801882-001	219126	B) 2.6000	Dry wgt (A): 11.8000		78.57
			C) 14.3100	550 wgt (D):		
27	R1801882-002	219127	B) 2.6100	Dry wgt (A): 11.9900		84.58
			C) 13.7000	550 wgt (D):		
28	R1801882-003	219128	B) 2.5700	Dry wgt (A): 11.6600		82.86
			C) 13.5400	550 wgt (D):		
29	R1801882-004	219129	B) 2.6100	Dry wgt (A): 11.1900		72.47
			C) 14.4500	550 wgt (D):		
30	R1801882-004 DUP	219130	B) 2.5900	Dry wgt (A): 11.0300		73.20
			C) 14.1200	550 wgt (D):		





March 12, 2018

Service Request No:R1801818

Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Accounts Payable,

Enclosed are the results of the sample(s) submitted to our laboratory March 01, 2018  
For your reference, these analyses have been assigned our service request number **R1801818**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS** 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



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# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Received:** 03/01/2018

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

One soil sample was received for analysis at ALS Environmental on 03/01/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The sample was received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### General Chemistry:

No significant anomalies were noted with this analysis.

#### Volatiles by GC/MS:

Method 8260C, 03/08/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by 

Date 03/12/2018

**SAMPLE DETECTION SUMMARY**

**CLIENT ID: MW-08 (6.0-8.0)** **Lab ID: R1801818-001**

Analyte	Results	Flag	MDL	PQL	Units	Method
Total Solids	67.9				Percent	ALS SOP
1,2,4-Trimethylbenzene	2400		88	810	ug/Kg	8260C
1,3,5-Trimethylbenzene	310	J	130	810	ug/Kg	8260C
Benzene	890		47	810	ug/Kg	8260C
Cyclohexane	450	J	230	810	ug/Kg	8260C
Ethylbenzene	1300		38	810	ug/Kg	8260C
Isopropylbenzene (Cumene)	320	J	110	810	ug/Kg	8260C
Methylcyclohexane	1800		200	810	ug/Kg	8260C
Toluene	2600		170	810	ug/Kg	8260C
m,p-Xylenes	4900		180	1600	ug/Kg	8260C
n-Butylbenzene	790	J	160	810	ug/Kg	8260C
n-Propylbenzene	1300		130	810	ug/Kg	8260C
o-Xylene	790	J	78	810	ug/Kg	8260C
sec-Butylbenzene	390	J	120	810	ug/Kg	8260C





## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801818

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801818-001	MW-08 (6.0-8.0)	2/28/2018	1210



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

# 49600

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-1B</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE																			
Company/Address <b>Day Environmental, Inc 1563 Lyell Avenue Rochester, NY 14606</b>		Email <b>jdanzinger@daymail.net</b>		NUMBER OF CONTAINERS												Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____  REMARKS/ ALTERNATE DESCRIPTION							
Phone # <b>585-454-0210</b>		Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Jeff Danzinger</b>		GC/MS VOA's • 8260 • 824 • CLP GC/MS SVOA's • 8270 • 825 GC VOA's • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS - DISSOLVED (List in comments below) <b>Full TCLP</b> <b>Ign (Flash Point)</b> <b>Reactivity</b> <b>PH</b> <b>PCB-</b>																	
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX																			
MW-08(6.0-8.0)		2/28/18	1210	Soil	4	X																	
IDW-01 (Soil)		3/1/18	1510	Soil	2							X	X	X	X	X							
SPECIAL INSTRUCTIONS/COMMENTS <b>Metals</b>						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE						REPORT REQUIREMENTS I. Results Only X II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries X IV. Data Validation Report with Raw Data NYSDEL Equiv Exce Edata <input checked="" type="checkbox"/> es <input type="checkbox"/> No						INVOICE INFORMATION See 1/24/18 quote from Christina Cusano PO # 54645-1B BILL TO:					
STATE WHERE SAMPLES WERE COLLECTED																							
RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY								
<i>[Signature]</i>					<i>[Signature]</i>																		
Signature <b>Jeff Danzinger</b>					Signature <b>Daniel Ward</b>					Signature					Signature								
Printed Name <b>Jeff Danzinger</b>					Printed Name <b>Daniel Ward</b>					Printed Name					Printed Name								
Firm <b>ALS</b>					Firm <b>ALS</b>					Firm					Firm								
Date/Time <b>3/1/18 @ 4:00 PM</b>					Date/Time <b>3/1/18 / 1600</b>					Date/Time					Date/Time								

**R1801818 5**  
 Day Environmental, Incorporated  
 Bulls Head North, Rochester, NY



# Cooler Receipt and Preservation Check Form

**R1801818**  
 Day Environmental, Incorporated  
 Bulls Head North, Rochester, NY  
**5**

Project/Client Day Env. Folder Number \_\_\_\_\_

Cooler received on 3/1/18 by: du

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <del>Wet Ice</del> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore <u>5035set</u> NA

8. Temperature Readings Date: 3/1/18 Time: 1615 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.8</u>						
Correction Factor (°C)	<u>4.0</u>						
Corrected Temp (°C)	<u>4.8</u>						
Temp from: Type of bottle	<u>cont. tube</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
 & Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-cool by du on 3/1/18 at 1615  
 5035 samples placed in storage location: R-FM by du on 3/1/18 at 1615

Cooler Breakdown: Date: 3/5/18 Time: 1037 by: du

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES NO
- 10. Did all bottle labels and tags agree with custody papers?  YES NO
- 11. Were correct containers used for the tests indicated?  YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)?  YES NO
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated  N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 7-144-003  
 Explain all Discrepancies/ Other Comments: \_\_\_\_\_

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: du  
 PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp.  
dba ALS Environmental

Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801818

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1801818-001.01</b>	ALS SOP	3/5/2018	1034	SMO / DWARD	
		3/5/2018	1035	R-002 / DWARD	
<b>R1801818-001.02</b>		3/5/2018	1034	SMO / DWARD	
		3/5/2018	1034	F-09 / DWARD	
<b>R1801818-001.03</b>		3/5/2018	1034	SMO / DWARD	
		3/5/2018	1034	F-09 / DWARD	
<b>R1801818-001.04</b>	8260C	3/5/2018	1034	SMO / DWARD	
		3/5/2018	1034	F-09 / DWARD	
		3/8/2018	1428	In Lab / FNAEGLER	
		3/8/2018	1432	F-09 / FNAEGLER	



# Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
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[www.alsglobal.com](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801818

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Soil	Total Solids

**ALS Group USA, Corp.**

dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801818

**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001  
**Sample Matrix:** Soil

**Date Collected:** 02/28/18  
**Date Received:** 03/1/18

**Analysis Method**  
8260C  
ALS SOP

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER  
KWONG



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

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Phone (585) 288-5380 Fax (585) 288-8475

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Collected:** 02/28/18 12:10  
**Date Received:** 03/01/18 16:00

**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	810 U	810	120	109.5	03/08/18 14:43	
1,1,2,2-Tetrachloroethane	810 U	810	140	109.5	03/08/18 14:43	
1,1,2-Trichloroethane	810 U	810	120	109.5	03/08/18 14:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	810 U	810	200	109.5	03/08/18 14:43	
1,1-Dichloroethane (1,1-DCA)	810 U	810	210	109.5	03/08/18 14:43	
1,1-Dichloroethene (1,1-DCE)	810 U	810	210	109.5	03/08/18 14:43	
1,2,3-Trichlorobenzene	810 U	810	100	109.5	03/08/18 14:43	
1,2,4-Trichlorobenzene	810 U	810	96	109.5	03/08/18 14:43	
1,2,4-Trimethylbenzene	<b>2400</b>	810	88	109.5	03/08/18 14:43	
1,2-Dibromo-3-chloropropane (DBCP)	810 U	810	310	109.5	03/08/18 14:43	
1,2-Dibromoethane	810 U	810	200	109.5	03/08/18 14:43	
1,2-Dichlorobenzene	810 U	810	99	109.5	03/08/18 14:43	
1,2-Dichloroethane	810 U	810	99	109.5	03/08/18 14:43	
1,2-Dichloropropane	810 U	810	160	109.5	03/08/18 14:43	
1,3,5-Trimethylbenzene	<b>310 J</b>	810	130	109.5	03/08/18 14:43	
1,3-Dichlorobenzene	810 U	810	110	109.5	03/08/18 14:43	
1,4-Dichlorobenzene	810 U	810	91	109.5	03/08/18 14:43	
1,4-Dioxane	16000 U	16000	3100	109.5	03/08/18 14:43	
2-Butanone (MEK)	810 U	810	370	109.5	03/08/18 14:43	
2-Hexanone	810 U	810	200	109.5	03/08/18 14:43	
4-Isopropyltoluene	810 U	810	150	109.5	03/08/18 14:43	
4-Methyl-2-pentanone	810 U	810	160	109.5	03/08/18 14:43	
Acetone	810 U	810	460	109.5	03/08/18 14:43	
Benzene	<b>890</b>	810	47	109.5	03/08/18 14:43	
Bromochloromethane	810 U	810	220	109.5	03/08/18 14:43	
Bromodichloromethane	810 U	810	99	109.5	03/08/18 14:43	
Bromoform	810 U	810	150	109.5	03/08/18 14:43	
Bromomethane	810 U	810	230	109.5	03/08/18 14:43	
Carbon Disulfide	810 U	810	200	109.5	03/08/18 14:43	
Carbon Tetrachloride	810 U	810	150	109.5	03/08/18 14:43	
Chlorobenzene	810 U	810	47	109.5	03/08/18 14:43	
Chloroethane	810 U	810	470	109.5	03/08/18 14:43	
Chloroform	810 U	810	210	109.5	03/08/18 14:43	
Chloromethane	810 U	810	65	109.5	03/08/18 14:43	
Cyclohexane	<b>450 J</b>	810	230	109.5	03/08/18 14:43	
Dibromochloromethane	810 U	810	120	109.5	03/08/18 14:43	
Dichlorodifluoromethane (CFC 12)	810 U	810	310	109.5	03/08/18 14:43	
Dichloromethane	810 U	810	92	109.5	03/08/18 14:43	
Ethylbenzene	<b>1300</b>	810	38	109.5	03/08/18 14:43	
Isopropylbenzene (Cumene)	<b>320 J</b>	810	110	109.5	03/08/18 14:43	
Methyl Acetate	810 U	810	290	109.5	03/08/18 14:43	
Methyl tert-Butyl Ether	810 U	810	160	109.5	03/08/18 14:43	
Methylcyclohexane	<b>1800</b>	810	200	109.5	03/08/18 14:43	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Collected:** 02/28/18 12:10  
**Date Received:** 03/01/18 16:00

**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	810 U	810	49	109.5	03/08/18 14:43	
Tetrachloroethene (PCE)	810 U	810	150	109.5	03/08/18 14:43	
Toluene	<b>2600</b>	810	170	109.5	03/08/18 14:43	
Trichloroethene (TCE)	810 U	810	170	109.5	03/08/18 14:43	
Trichlorofluoromethane (CFC 11)	810 U	810	110	109.5	03/08/18 14:43	
Vinyl Chloride	810 U	810	300	109.5	03/08/18 14:43	
cis-1,2-Dichloroethene	810 U	810	160	109.5	03/08/18 14:43	
cis-1,3-Dichloropropene	810 U	810	150	109.5	03/08/18 14:43	
m,p-Xylenes	<b>4900</b>	1600	180	109.5	03/08/18 14:43	
n-Butylbenzene	<b>790 J</b>	810	160	109.5	03/08/18 14:43	
n-Propylbenzene	<b>1300</b>	810	130	109.5	03/08/18 14:43	
o-Xylene	<b>790 J</b>	810	78	109.5	03/08/18 14:43	
sec-Butylbenzene	<b>390 J</b>	810	120	109.5	03/08/18 14:43	
tert-Butylbenzene	810 U	810	94	109.5	03/08/18 14:43	
trans-1,2-Dichloroethene	810 U	810	140	109.5	03/08/18 14:43	
trans-1,3-Dichloropropene	810 U	810	33	109.5	03/08/18 14:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	03/08/18 14:43	
Dibromofluoromethane	88	63 - 138	03/08/18 14:43	
Toluene-d8	100	66 - 138	03/08/18 14:43	



## General Chemistry

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001

**Service Request:** R1801818  
**Date Collected:** 02/28/18 12:10  
**Date Received:** 03/01/18 16:00  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	67.9	Percent	-	1	03/07/18 17:30	



## QC Summary Forms

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## Volatile Organic Compounds by GC/MS

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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Extraction Method:** EPA 5035A

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		51 - 136	63 - 138	66 - 138
MW-08 (6.0-8.0)	R1801818-001	98	88	100
Lab Control Sample	RQ1802100-07	97	95	99
Method Blank	RQ1802100-08	99	89	98

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Analyzed:** 03/08/18 14:14  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1802100-08  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\030818\C5390.D\  
**Analysis Lot:** 582947

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1802100-07	I:\ACQUADATA\MSVOA14\Data\030818\C5387.D\	03/08/18 13:04
MW-08 (6.0-8.0)	R1801818-001	I:\ACQUADATA\MSVOA14\Data\030818\C5391.D\	03/08/18 14:43

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1802100-08

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	250 U	250	37	50	03/08/18 14:14	
1,1,2,2-Tetrachloroethane	250 U	250	41	50	03/08/18 14:14	
1,1,2-Trichloroethane	250 U	250	37	50	03/08/18 14:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	250 U	250	62	50	03/08/18 14:14	
1,1-Dichloroethane (1,1-DCA)	250 U	250	63	50	03/08/18 14:14	
1,1-Dichloroethene (1,1-DCE)	250 U	250	64	50	03/08/18 14:14	
1,2,3-Trichlorobenzene	250 U	250	31	50	03/08/18 14:14	
1,2,4-Trichlorobenzene	250 U	250	30	50	03/08/18 14:14	
1,2,4-Trimethylbenzene	250 U	250	27	50	03/08/18 14:14	
1,2-Dibromo-3-chloropropane (DBCP)	250 U	250	94	50	03/08/18 14:14	
1,2-Dibromoethane	250 U	250	61	50	03/08/18 14:14	
1,2-Dichlorobenzene	250 U	250	31	50	03/08/18 14:14	
1,2-Dichloroethane	250 U	250	31	50	03/08/18 14:14	
1,2-Dichloropropane	250 U	250	49	50	03/08/18 14:14	
1,3,5-Trimethylbenzene	250 U	250	40	50	03/08/18 14:14	
1,3-Dichlorobenzene	250 U	250	32	50	03/08/18 14:14	
1,4-Dichlorobenzene	250 U	250	28	50	03/08/18 14:14	
1,4-Dioxane	5000 U	5000	960	50	03/08/18 14:14	
2-Butanone (MEK)	250 U	250	120	50	03/08/18 14:14	
2-Hexanone	250 U	250	61	50	03/08/18 14:14	
4-Isopropyltoluene	250 U	250	44	50	03/08/18 14:14	
4-Methyl-2-pentanone	250 U	250	49	50	03/08/18 14:14	
Acetone	250 U	250	150	50	03/08/18 14:14	
Benzene	250 U	250	15	50	03/08/18 14:14	
Bromochloromethane	250 U	250	68	50	03/08/18 14:14	
Bromodichloromethane	250 U	250	31	50	03/08/18 14:14	
Bromoform	250 U	250	47	50	03/08/18 14:14	
Bromomethane	250 U	250	69	50	03/08/18 14:14	
Carbon Disulfide	250 U	250	62	50	03/08/18 14:14	
Carbon Tetrachloride	250 U	250	46	50	03/08/18 14:14	
Chlorobenzene	250 U	250	15	50	03/08/18 14:14	
Chloroethane	250 U	250	150	50	03/08/18 14:14	
Chloroform	250 U	250	63	50	03/08/18 14:14	
Chloromethane	250 U	250	20	50	03/08/18 14:14	
Cyclohexane	250 U	250	69	50	03/08/18 14:14	
Dibromochloromethane	250 U	250	37	50	03/08/18 14:14	
Dichlorodifluoromethane (CFC 12)	250 U	250	95	50	03/08/18 14:14	
Dichloromethane	250 U	250	29	50	03/08/18 14:14	
Ethylbenzene	250 U	250	12	50	03/08/18 14:14	
Isopropylbenzene (Cumene)	250 U	250	34	50	03/08/18 14:14	
Methyl Acetate	250 U	250	88	50	03/08/18 14:14	
Methyl tert-Butyl Ether	250 U	250	47	50	03/08/18 14:14	
Methylcyclohexane	250 U	250	60	50	03/08/18 14:14	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1802100-08

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	250 U	250	15	50	03/08/18 14:14	
Tetrachloroethene (PCE)	250 U	250	44	50	03/08/18 14:14	
Toluene	250 U	250	50	50	03/08/18 14:14	
Trichloroethene (TCE)	250 U	250	51	50	03/08/18 14:14	
Trichlorofluoromethane (CFC 11)	250 U	250	33	50	03/08/18 14:14	
Vinyl Chloride	250 U	250	92	50	03/08/18 14:14	
cis-1,2-Dichloroethene	250 U	250	48	50	03/08/18 14:14	
cis-1,3-Dichloropropene	250 U	250	45	50	03/08/18 14:14	
m,p-Xylenes	500 U	500	55	50	03/08/18 14:14	
n-Butylbenzene	250 U	250	49	50	03/08/18 14:14	
n-Propylbenzene	250 U	250	39	50	03/08/18 14:14	
o-Xylene	250 U	250	24	50	03/08/18 14:14	
sec-Butylbenzene	250 U	250	36	50	03/08/18 14:14	
tert-Butylbenzene	250 U	250	29	50	03/08/18 14:14	
trans-1,2-Dichloroethene	250 U	250	43	50	03/08/18 14:14	
trans-1,3-Dichloropropene	250 U	250	10	50	03/08/18 14:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	51 - 136	03/08/18 14:14	
Dibromofluoromethane	89	63 - 138	03/08/18 14:14	
Toluene-d8	98	66 - 138	03/08/18 14:14	

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Analyzed:** 03/08/18 13:04  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample

**Instrument ID:**R-MS-14

**Lab Code:** RQ1802100-07

**File ID:**I:\ACQUADATA\MSVOA14\Data\030818\C5387.D\

**Analysis Method:** 8260C

**Analysis Lot:**582947

**Prep Method:** EPA 5035A

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1802100-08	I:\ACQUADATA\MSVOA14\Data\030818\C5390.D\	03/08/18 14:14
MW-08 (6.0-8.0)	R1801818-001	I:\ACQUADATA\MSVOA14\Data\030818\C5391.D\	03/08/18 14:43



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Analyzed:** 03/08/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1802100-07

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.9	20.0	90	40-140
1,1,2,2-Tetrachloroethane	8260C	17.8	20.0	89	40-140
1,1,2-Trichloroethane	8260C	17.5	20.0	88	40-140
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.5	20.0	97	40-140
1,1-Dichloroethane (1,1-DCA)	8260C	20.3	20.0	102	40-140
1,1-Dichloroethene (1,1-DCE)	8260C	19.2	20.0	96	40-140
1,2,3-Trichlorobenzene	8260C	16.2	20.0	81	40-140
1,2,4-Trichlorobenzene	8260C	16.5	20.0	82	40-140
1,2,4-Trimethylbenzene	8260C	18.1	20.0	90	40-140
1,2-Dibromo-3-chloropropane (DBCP)	8260C	13.0	20.0	65	40-140
1,2-Dibromoethane	8260C	17.5	20.0	87	40-140
1,2-Dichlorobenzene	8260C	17.2	20.0	86	40-140
1,2-Dichloroethane	8260C	18.6	20.0	93	40-140
1,2-Dichloropropane	8260C	19.1	20.0	95	40-140
1,3,5-Trimethylbenzene	8260C	18.0	20.0	90	40-140
1,3-Dichlorobenzene	8260C	17.1	20.0	86	40-140
1,4-Dichlorobenzene	8260C	16.9	20.0	85	40-140
1,4-Dioxane	8260C	280	400	70	40-140
2-Butanone (MEK)	8260C	18.7	20.0	93	40-140
2-Hexanone	8260C	16.8	20.0	84	40-140
4-Isopropyltoluene	8260C	17.3	20.0	86	40-140
4-Methyl-2-pentanone	8260C	17.2	20.0	86	40-140
Acetone	8260C	17.9	20.0	90	40-140
Benzene	8260C	18.3	20.0	92	40-140
Bromochloromethane	8260C	19.2	20.0	96	40-140
Bromodichloromethane	8260C	17.5	20.0	88	40-140
Bromoform	8260C	14.3	20.0	71	40-140
Bromomethane	8260C	16.5	20.0	83	40-140
Carbon Disulfide	8260C	21.0	20.0	105	40-140
Carbon Tetrachloride	8260C	15.8	20.0	79	40-140
Chlorobenzene	8260C	17.2	20.0	86	40-140
Chloroethane	8260C	15.8	20.0	79	40-140
Chloroform	8260C	19.1	20.0	95	40-140

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Analyzed:** 03/08/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

**Lab Control Sample**  
RQ1802100-07

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	16.7	20.0	84	40-140
Cyclohexane	8260C	19.7	20.0	99	40-140
Dibromochloromethane	8260C	16.2	20.0	81	40-140
Dichlorodifluoromethane (CFC 12)	8260C	20.8	20.0	104	40-140
Dichloromethane	8260C	19.5	20.0	98	40-140
Ethylbenzene	8260C	17.1	20.0	86	40-140
Isopropylbenzene (Cumene)	8260C	17.1	20.0	86	40-140
Methyl Acetate	8260C	17.4	20.0	87	40-140
Methyl tert-Butyl Ether	8260C	19.0	20.0	95	40-140
Methylcyclohexane	8260C	19.7	20.0	98	40-140
Styrene	8260C	17.4	20.0	87	40-140
Tetrachloroethene (PCE)	8260C	16.5	20.0	83	40-140
Toluene	8260C	17.7	20.0	89	40-140
Trichloroethene (TCE)	8260C	16.9	20.0	85	40-140
Trichlorofluoromethane (CFC 11)	8260C	19.6	20.0	98	40-140
Vinyl Chloride	8260C	19.1	20.0	95	40-140
cis-1,2-Dichloroethene	8260C	18.1	20.0	91	40-140
cis-1,3-Dichloropropene	8260C	17.7	20.0	89	40-140
m,p-Xylenes	8260C	34.8	40.0	87	40-140
n-Butylbenzene	8260C	18.4	20.0	92	40-140
n-Propylbenzene	8260C	18.6	20.0	93	40-140
o-Xylene	8260C	17.3	20.0	86	40-140
sec-Butylbenzene	8260C	17.9	20.0	89	40-140
tert-Butylbenzene	8260C	17.1	20.0	86	40-140
trans-1,2-Dichloroethene	8260C	19.2	20.0	96	40-140
trans-1,3-Dichloropropene	8260C	16.7	20.0	84	40-140

**ALS Group USA, Corp.**  
dba ALS Environmental

QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801818  
**Date Analyzed:**03/08/18 10:36

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\030818\C5383.D\  
**Instrument ID:** R-MS-14

**Analytical Method:** 8260C  
**Analysis Lot:** 582947

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	20.92	28549	Pass
75	95	30	60	51.16	69816	Pass
95	95	100	100	100.00	136475	Pass
96	95	5	9	6.52	8900	Pass
173	174	0	2	0.00	0	Pass
174	95	50	120	83.83	114411	Pass
175	174	5	9	7.47	8550	Pass
176	174	95	101	96.94	110907	Pass
177	176	5	9	6.78	7525	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1802100-06	I:\ACQUADATA\MSVOA14\Data\030818\C5385.D\	03/08/18 11:46	
Lab Control Sample	RQ1802100-07	I:\ACQUADATA\MSVOA14\Data\030818\C5387.D\	03/08/18 13:04	
Method Blank	RQ1802100-08	I:\ACQUADATA\MSVOA14\Data\030818\C5390.D\	03/08/18 14:14	
MW-08 (6.0-8.0)	R1801818-001	I:\ACQUADATA\MSVOA14\Data\030818\C5391.D\	03/08/18 14:43	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801818  
**Date Analyzed:**03/08/18 11:46

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\MSVOA14\Data\030818\C5385.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1802100-06  
**Analysis Lot:**582947  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	204,748	11.74	442,219	5.94	388,587	9.58
<b>Upper Limit ==&gt;</b>	409,496	12.24	884,438	6.44	777,174	10.08
<b>Lower Limit ==&gt;</b>	102,374	11.24	221,110	5.44	194,294	9.08

**Associated Analyses**

Lab Control Sample	RQ1802100-07	206185	11.74	445695	5.94	387814	9.58
Method Blank	RQ1802100-08	195762	11.74	394819	5.94	350302	9.58
MW-08 (6.0-8.0)	R1801818-001	204702	11.74	425136	5.94	372411	9.58

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801818  
**Date Analyzed:**03/08/18 11:46

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\MSVOA14\Data\030818\C5385.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1802100-06  
**Analysis Lot:**582947  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	286,676	4.69
<b>Upper Limit ==&gt;</b>	573,352	5.19
<b>Lower Limit ==&gt;</b>	143,338	4.19

**Associated Analyses**

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Lab Control Sample	RQ1802100-07	285030	4.69
Method Blank	RQ1802100-08	254604	4.68
MW-08 (6.0-8.0)	R1801818-001	270386	4.68



## Raw Data

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Collected:** 02/28/18 12:10  
**Date Received:** 03/01/18 16:00

**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001

**Units:** ug/Kg  
**Basis:** Dry

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	810 U	810	120	109.5	03/08/18 14:43	
1,1,2,2-Tetrachloroethane	810 U	810	140	109.5	03/08/18 14:43	
1,1,2-Trichloroethane	810 U	810	120	109.5	03/08/18 14:43	
1,1,2-Trichloro-1,2,2-trifluoroethane	810 U	810	200	109.5	03/08/18 14:43	
1,1-Dichloroethane (1,1-DCA)	810 U	810	210	109.5	03/08/18 14:43	
1,1-Dichloroethene (1,1-DCE)	810 U	810	210	109.5	03/08/18 14:43	
1,2,3-Trichlorobenzene	810 U	810	100	109.5	03/08/18 14:43	
1,2,4-Trichlorobenzene	810 U	810	96	109.5	03/08/18 14:43	
1,2,4-Trimethylbenzene	<b>2400</b>	810	88	109.5	03/08/18 14:43	
1,2-Dibromo-3-chloropropane (DBCP)	810 U	810	310	109.5	03/08/18 14:43	
1,2-Dibromoethane	810 U	810	200	109.5	03/08/18 14:43	
1,2-Dichlorobenzene	810 U	810	99	109.5	03/08/18 14:43	
1,2-Dichloroethane	810 U	810	99	109.5	03/08/18 14:43	
1,2-Dichloropropane	810 U	810	160	109.5	03/08/18 14:43	
1,3,5-Trimethylbenzene	<b>310 J</b>	810	130	109.5	03/08/18 14:43	
1,3-Dichlorobenzene	810 U	810	110	109.5	03/08/18 14:43	
1,4-Dichlorobenzene	810 U	810	91	109.5	03/08/18 14:43	
1,4-Dioxane	16000 U	16000	3100	109.5	03/08/18 14:43	
2-Butanone (MEK)	810 U	810	370	109.5	03/08/18 14:43	
2-Hexanone	810 U	810	200	109.5	03/08/18 14:43	
4-Isopropyltoluene	810 U	810	150	109.5	03/08/18 14:43	
4-Methyl-2-pentanone	810 U	810	160	109.5	03/08/18 14:43	
Acetone	810 U	810	460	109.5	03/08/18 14:43	
Benzene	<b>890</b>	810	47	109.5	03/08/18 14:43	
Bromochloromethane	810 U	810	220	109.5	03/08/18 14:43	
Bromodichloromethane	810 U	810	99	109.5	03/08/18 14:43	
Bromoform	810 U	810	150	109.5	03/08/18 14:43	
Bromomethane	810 U	810	230	109.5	03/08/18 14:43	
Carbon Disulfide	810 U	810	200	109.5	03/08/18 14:43	
Carbon Tetrachloride	810 U	810	150	109.5	03/08/18 14:43	
Chlorobenzene	810 U	810	47	109.5	03/08/18 14:43	
Chloroethane	810 U	810	470	109.5	03/08/18 14:43	
Chloroform	810 U	810	210	109.5	03/08/18 14:43	
Chloromethane	810 U	810	65	109.5	03/08/18 14:43	
Cyclohexane	<b>450 J</b>	810	230	109.5	03/08/18 14:43	
Dibromochloromethane	810 U	810	120	109.5	03/08/18 14:43	
Dichlorodifluoromethane (CFC 12)	810 U	810	310	109.5	03/08/18 14:43	
Dichloromethane	810 U	810	92	109.5	03/08/18 14:43	
Ethylbenzene	<b>1300</b>	810	38	109.5	03/08/18 14:43	
Isopropylbenzene (Cumene)	<b>320 J</b>	810	110	109.5	03/08/18 14:43	
Methyl Acetate	810 U	810	290	109.5	03/08/18 14:43	
Methyl tert-Butyl Ether	810 U	810	160	109.5	03/08/18 14:43	
Methylcyclohexane	<b>1800</b>	810	200	109.5	03/08/18 14:43	



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801818  
**Date Collected:** 02/28/18 12:10  
**Date Received:** 03/01/18 16:00

**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001

**Units:** ug/Kg  
**Basis:** Dry

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5035A

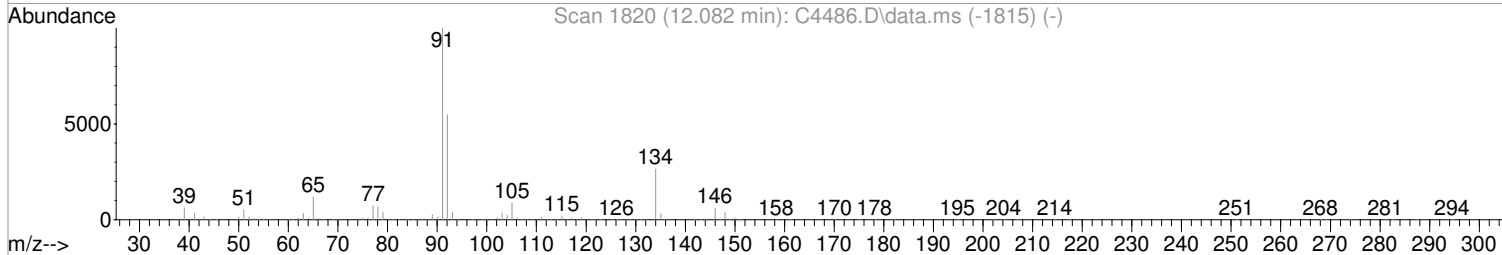
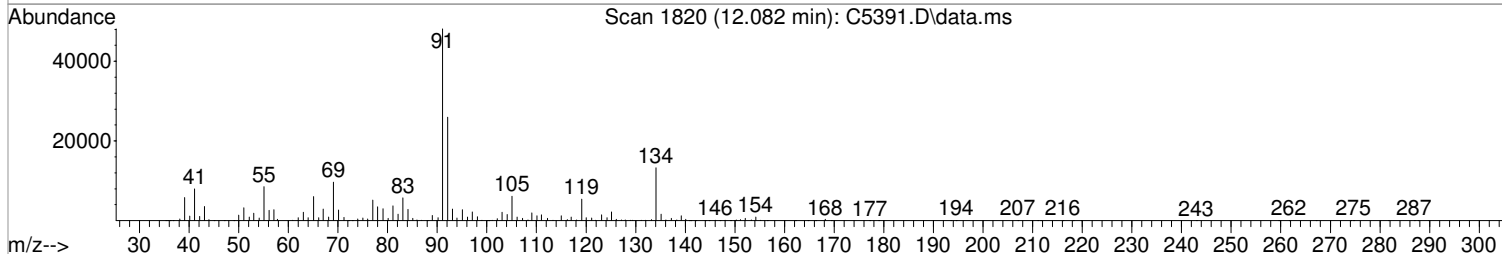
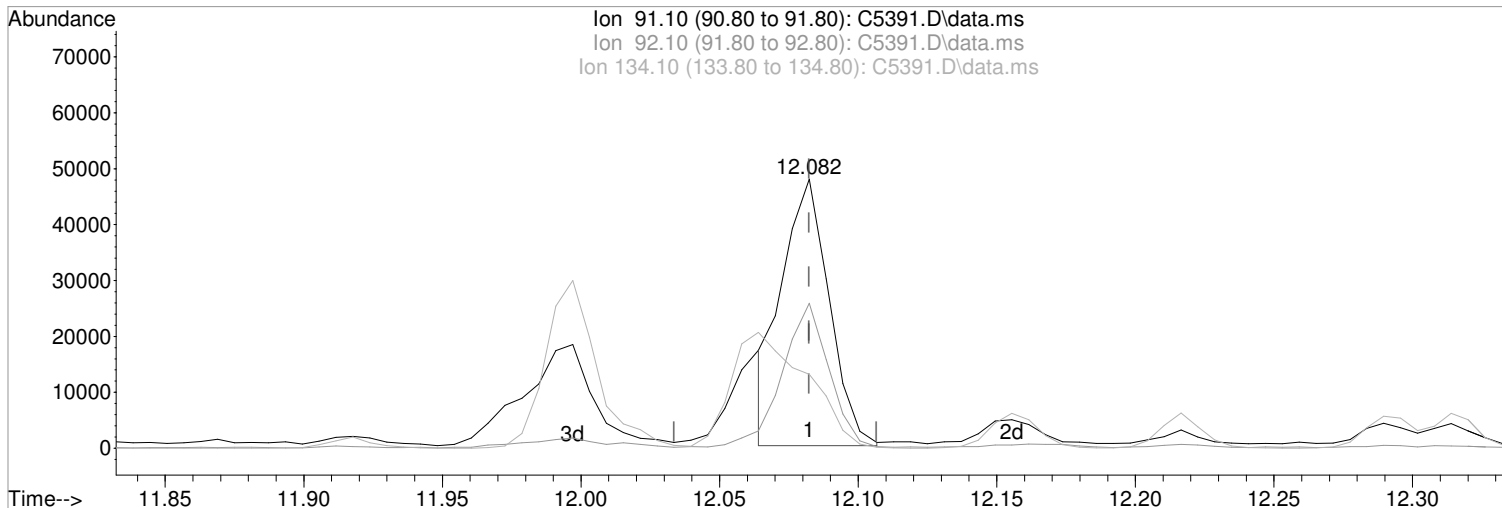
Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	810 U	810	49	109.5	03/08/18 14:43	
Tetrachloroethene (PCE)	810 U	810	150	109.5	03/08/18 14:43	
Toluene	<b>2600</b>	810	170	109.5	03/08/18 14:43	
Trichloroethene (TCE)	810 U	810	170	109.5	03/08/18 14:43	
Trichlorofluoromethane (CFC 11)	810 U	810	110	109.5	03/08/18 14:43	
Vinyl Chloride	810 U	810	300	109.5	03/08/18 14:43	
cis-1,2-Dichloroethene	810 U	810	160	109.5	03/08/18 14:43	
cis-1,3-Dichloropropene	810 U	810	150	109.5	03/08/18 14:43	
m,p-Xylenes	<b>4900</b>	1600	180	109.5	03/08/18 14:43	
n-Butylbenzene	<b>790 J</b>	810	160	109.5	03/08/18 14:43	
n-Propylbenzene	<b>1300</b>	810	130	109.5	03/08/18 14:43	
o-Xylene	<b>790 J</b>	810	78	109.5	03/08/18 14:43	
sec-Butylbenzene	<b>390 J</b>	810	120	109.5	03/08/18 14:43	
tert-Butylbenzene	810 U	810	94	109.5	03/08/18 14:43	
trans-1,2-Dichloroethene	810 U	810	140	109.5	03/08/18 14:43	
trans-1,3-Dichloropropene	810 U	810	33	109.5	03/08/18 14:43	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	51 - 136	03/08/18 14:43	
Dibromofluoromethane	88	63 - 138	03/08/18 14:43	
Toluene-d8	100	66 - 138	03/08/18 14:43	

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
Data File : C5391.D  
Acq On : 8 Mar 2018 2:43 pm  
Operator : F. NAEGLER  
Sample : R1801818-001|109.5  
Misc : DAY 12666 T4  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 14:58:50 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



(108) n-Butylbenzene  
12.082min (+0.000) 4.92 ug/L m  
response 56232

Manual Integration:

After

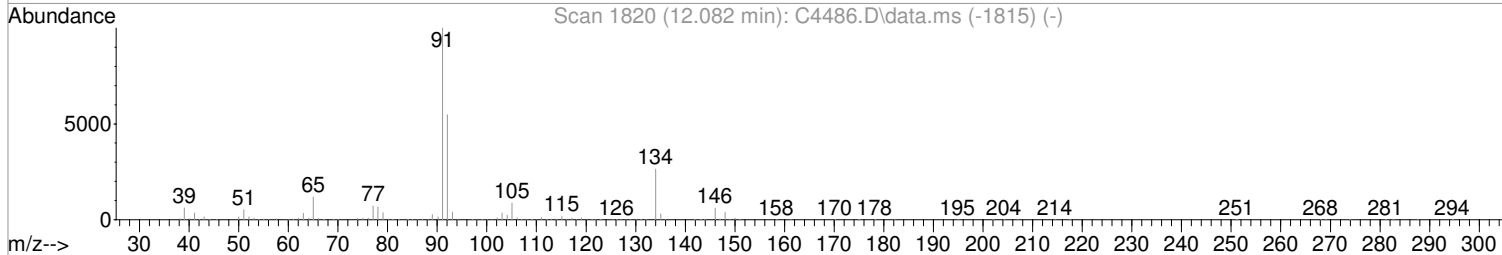
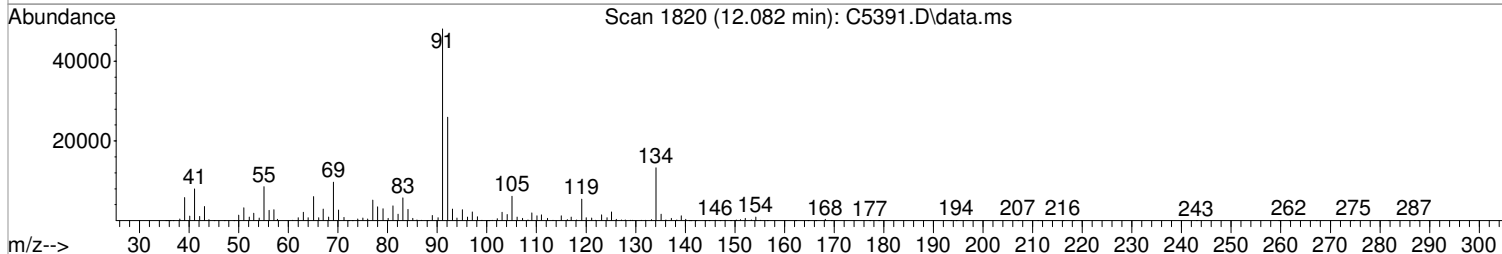
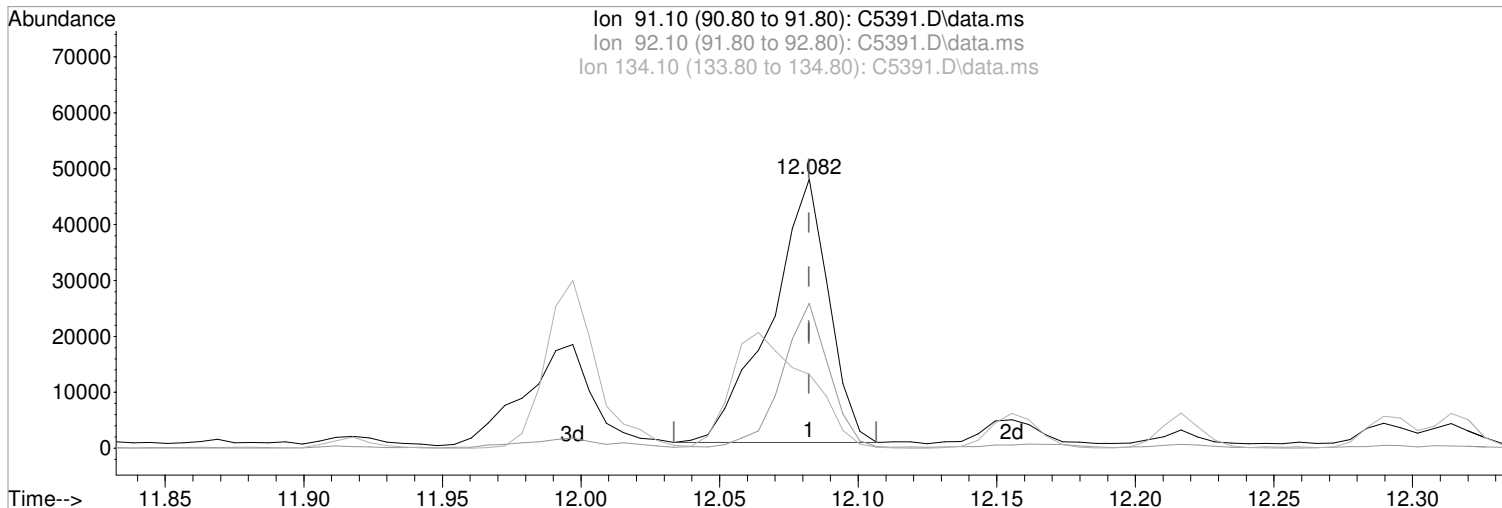
Poor integration.

03/08/18

Ion	Exp%	Act%
91.10	100	100
92.10	54.80	53.87
134.10	26.40	27.50
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
Data File : C5391.D  
Acq On : 8 Mar 2018 2:43 pm  
Operator : F. NAEGLER  
Sample : R1801818-001|109.5 Inst : MSVOA14  
Misc : DAY 12666 T4  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 08 14:58:50 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



(108) n-Butylbenzene  
12.082min (+0.000) 5.99 ug/L  
response 68470

Manual Integration:  
Before

Ion	Exp%	Act%
91.10	100	100
92.10	54.80	53.87
134.10	26.40	27.50
0.00	0.00	0.00

03/08/18

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5391.D  
 Acq On : 8 Mar 2018 2:43 pm  
 Operator : F. NAEGLER  
 Sample : R1801818-001|109.5 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 08 15:03:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

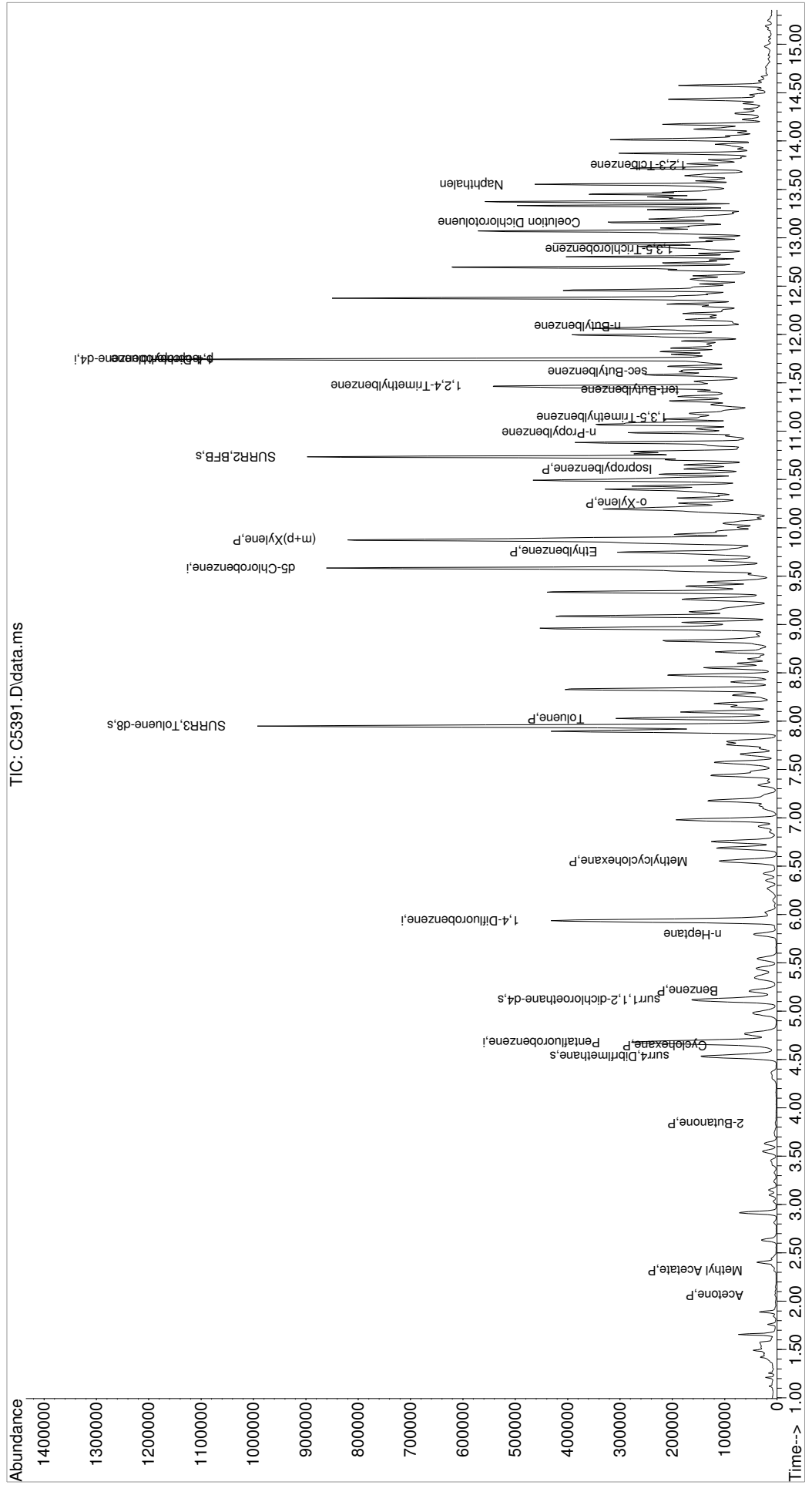
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	270386	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	425136	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	372411	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	204702	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	124535	44.18	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	88.36%#	(OK soil limits)	
47) surr1,1,2-dichloroetha...	5.114	65	176360	51.26	ug/L	-0.01
Spiked Amount	50.000	Range 73 - 125	Recovery =	102.52%		
64) SURR3,Toluene-d8	7.949	98	529003	49.86	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	99.72%		
69) SURR2,BFB	10.735	95	208189	48.82	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	97.64%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.401	94	505	Below Cal	#	76
15) Acetone	2.066	43	3148	1.77	ug/L	95
21) Methyl Acetate	2.316	43	4221	1.33	ug/L	97
34) 2-Butanone	3.840	43	3349	1.52	ug/L	88
43) Cyclohexane	4.645	41	8416	2.81	ug/L	84
48) Benzene	5.212	78	64268	5.49	ug/L	100
51) n-Heptane	5.797	43	23689	6.23	ug/L	95
54) Methylcyclohexane	6.553	55	43414	11.10	ug/L	# 55
65) Toluene	8.028	91	204347	15.83	ug/L	99
81) Ethylbenzene	9.754	106	37342	8.33	ug/L	98
82) (m+p)Xylene	9.875	106	170656	30.54	ug/L	96
83) o-Xylene	10.253	106	26786	4.90	ug/L	98
87) Isopropylbenzene	10.607	105	28858	2.00	ug/L	95
94) n-Propylbenzene	10.985	91	135253	8.36	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	22699	1.94	ug/L	96
99) tert-Butylbenzene	11.424	119	3248	0.31	ug/L	93
100) 1,2,4-Trimethylbenzene	11.467	105	181428	15.16	ug/L	98
102) sec-Butylbenzene	11.613	105	35749	2.40	ug/L	99
103) p-Isopropyltoluene	11.741	119	5490	0.43	ug/L	# 72
108) n-Butylbenzene	12.082	91	56232m	4.92	ug/L	
112) 1,3,5-Trichlorobenzene	12.881	180	1389	0.25	ug/L	# 83
113) Coelution Dichlorotoluene	13.155	125	3504	0.50	ug/L	# 73
116) Naphthalen	13.552	128	180982	11.47	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	1480	0.28	ug/L	# 52

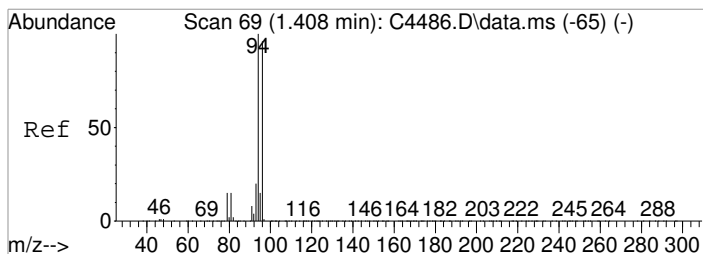
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5391.D  
 Acq On : 8 Mar 2018 2:43 pm  
 Operator : F. NAEGLER  
 Sample : R1801818-001|109.5  
 Misc : DAY 12666 T4  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

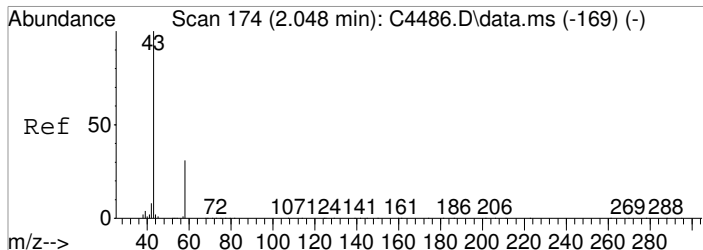
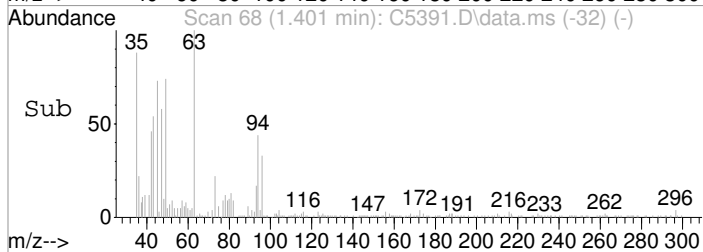
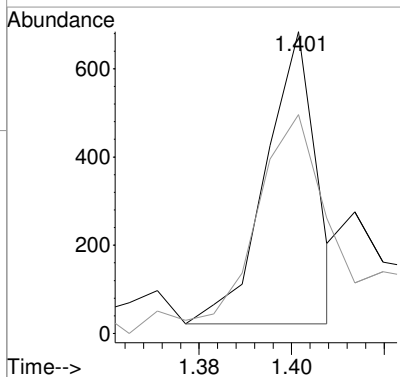
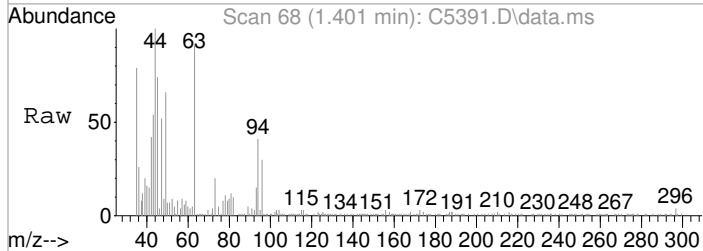
Quant Time: Mar 08 15:03:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration





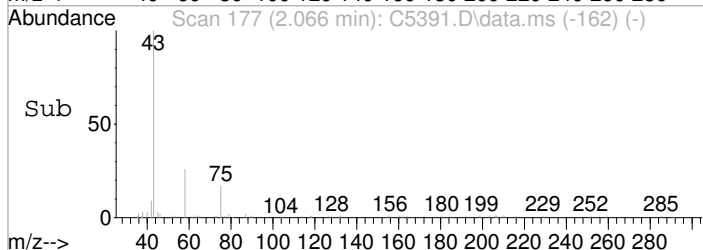
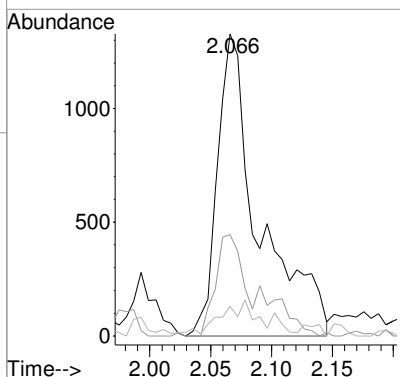
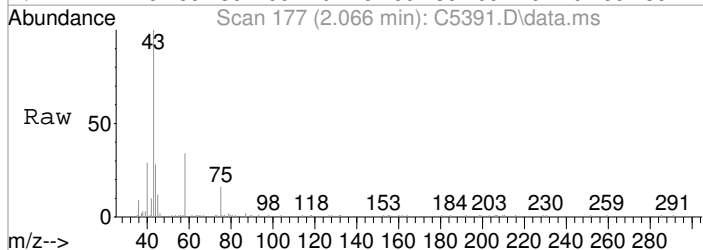
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.401 min Scan# 68  
 Delta R.T. -0.006 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

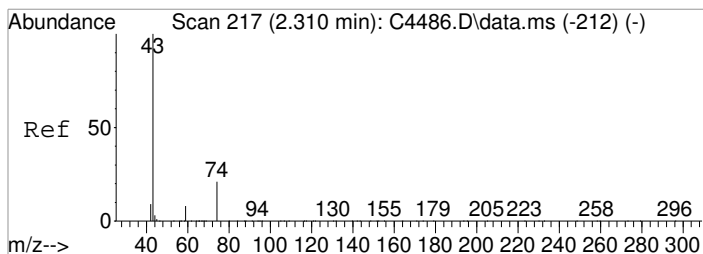
Tgt Ion	Resp	Lower	Upper
94	100		
96	72.5	75.8	115.8#



#15  
 Acetone  
 Concen: 1.77 ug/L  
 RT: 2.066 min Scan# 177  
 Delta R.T. 0.018 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

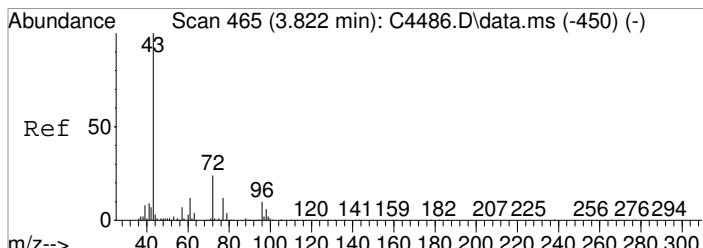
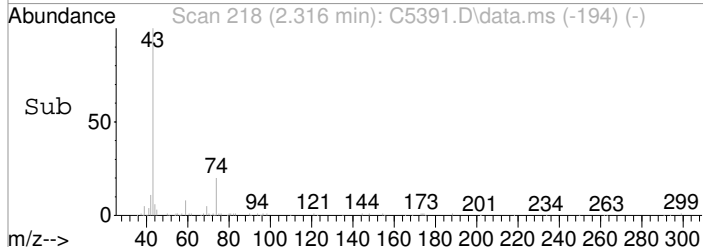
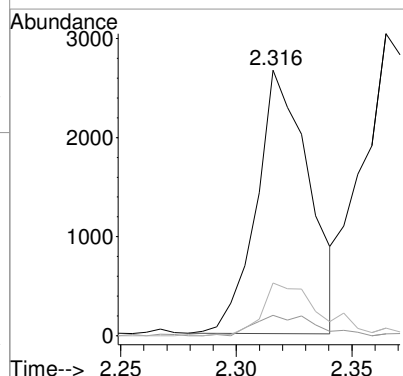
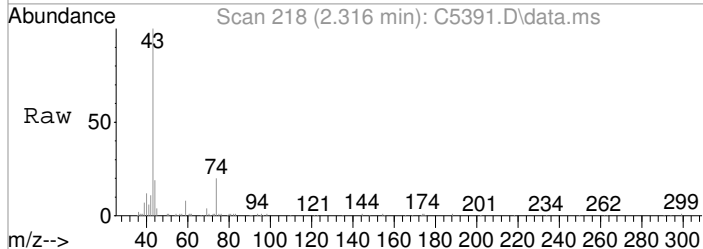
Tgt Ion	Resp	Lower	Upper
43	100		
58	33.6	10.7	50.7
42	9.8	0.0	28.2





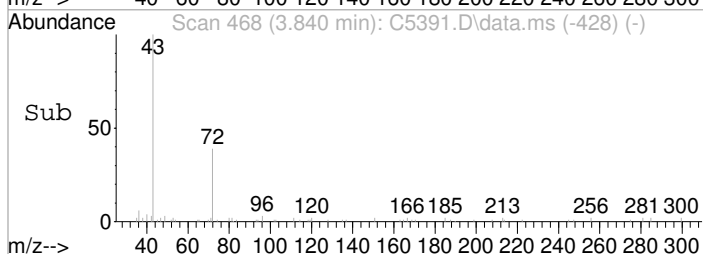
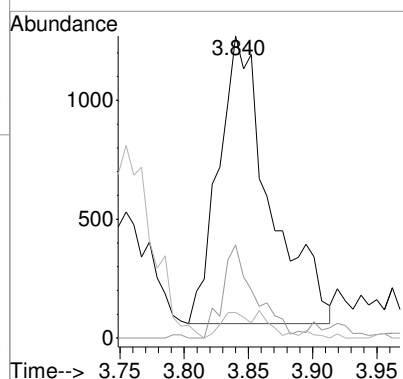
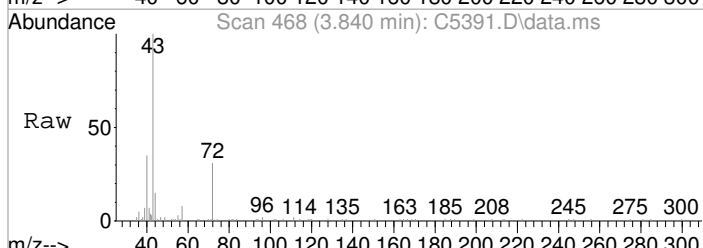
#21  
 Methyl Acetate  
 Concen: 1.33 ug/L  
 RT: 2.316 min Scan# 218  
 Delta R.T. 0.006 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

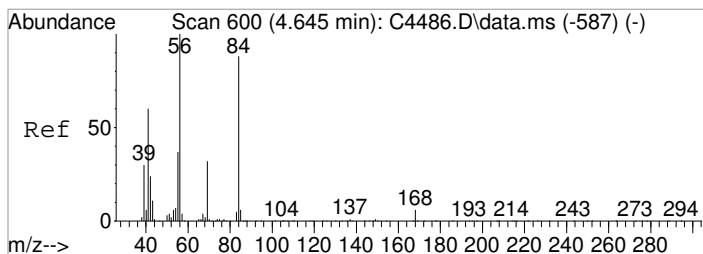
Tgt Ion	43	59	74	Resp	4221	Lower	Upper
Ion Ratio	100	7.7	19.8			0.0	28.4
						1.5	41.5



#34  
 2-Butanone  
 Concen: 1.52 ug/L  
 RT: 3.840 min Scan# 468  
 Delta R.T. 0.018 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

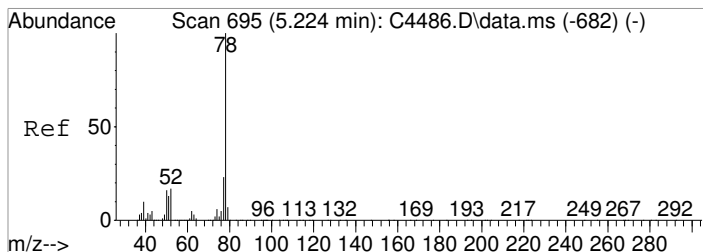
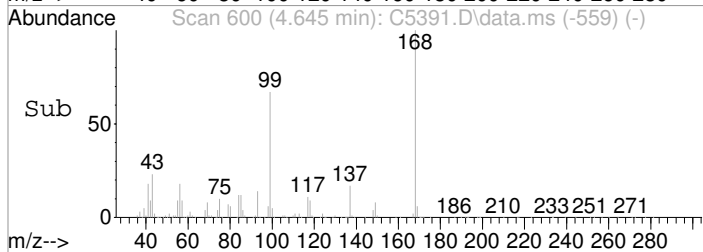
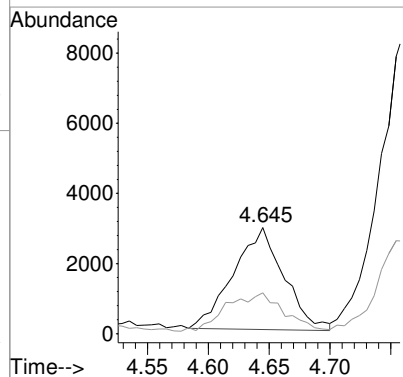
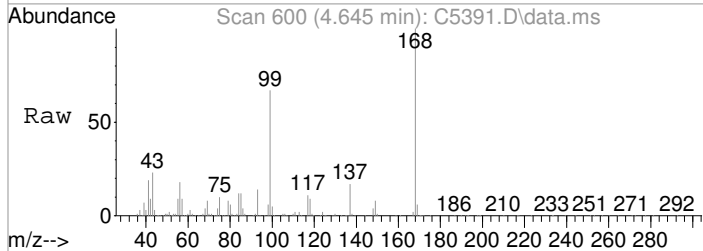
Tgt Ion	43	72	57	Resp	3349	Lower	Upper
Ion Ratio	100	30.8	8.5			3.7	43.7
						0.0	27.6





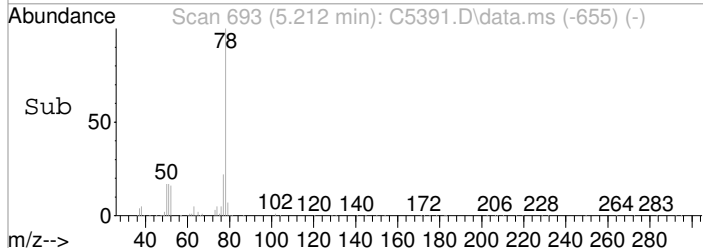
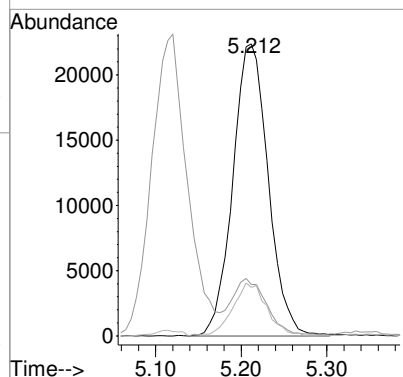
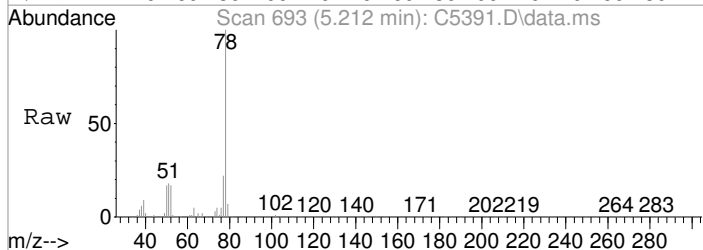
#43  
 Cyclohexane  
 Concen: 2.81 ug/L  
 RT: 4.645 min Scan# 600  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

Tgt Ion	Resp	Lower	Upper
41	8416		
41	100		
39	38.5	29.2	69.2

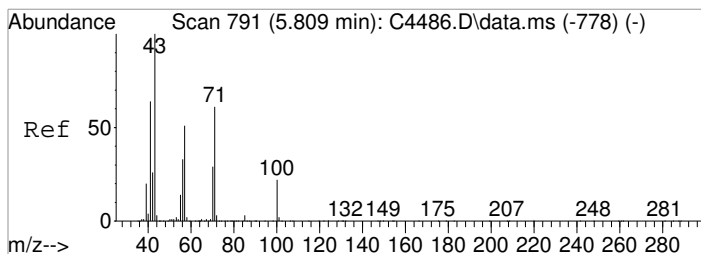


#48  
 Benzene  
 Concen: 5.49 ug/L  
 RT: 5.212 min Scan# 693  
 Delta R.T. -0.012 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

Tgt Ion	Resp	Lower	Upper
78	64268		
78	100		
51	17.7	0.0	37.8
52	16.7	0.0	36.6

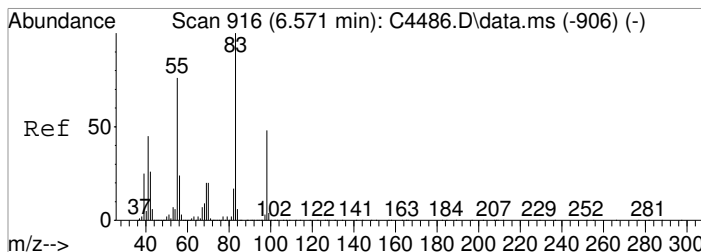
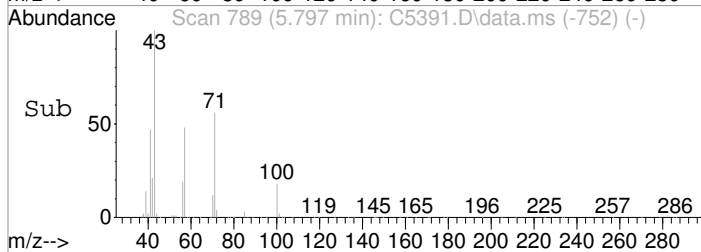
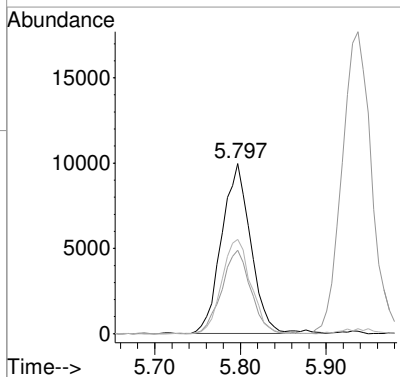
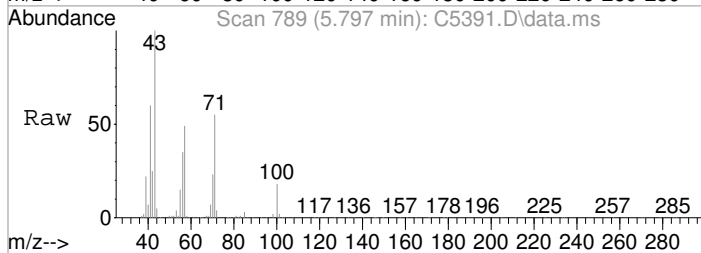






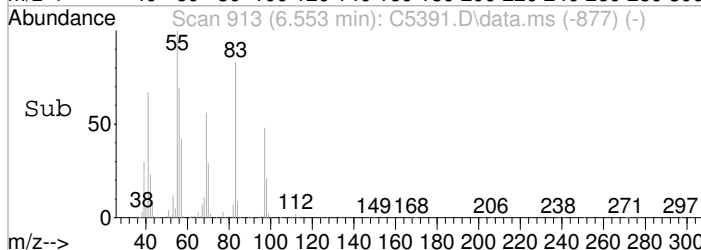
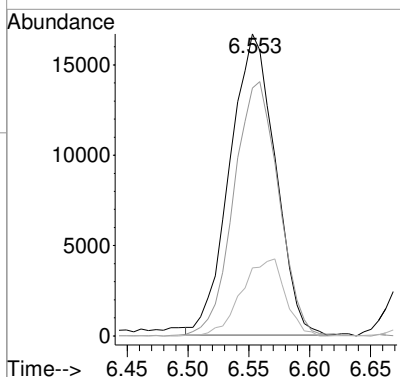
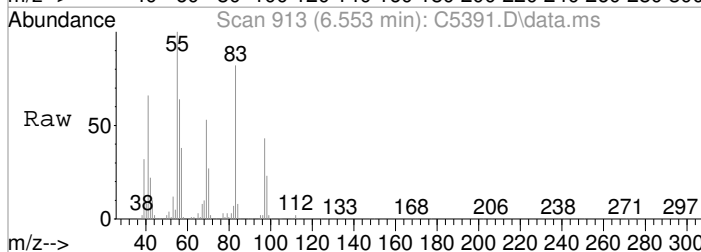
#51  
 n-Heptane  
 Concen: 6.23 ug/L  
 RT: 5.797 min Scan# 789  
 Delta R.T. -0.012 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

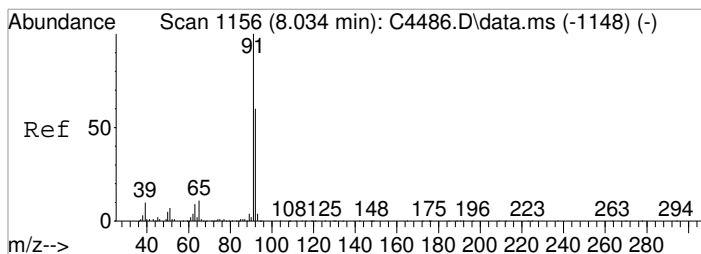
Tgt Ion	Resp	Lower	Upper
43	100		
57	48.9	31.2	71.2
71	55.3	40.7	80.7



#54  
 Methylcyclohexane  
 Concen: 11.10 ug/L  
 RT: 6.553 min Scan# 913  
 Delta R.T. -0.018 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

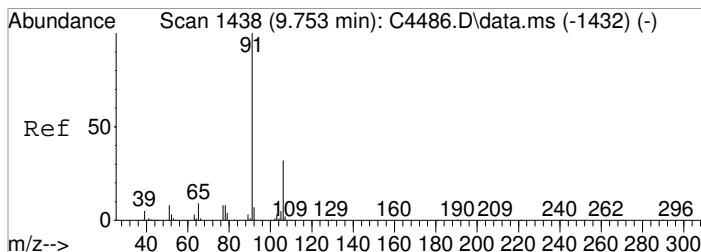
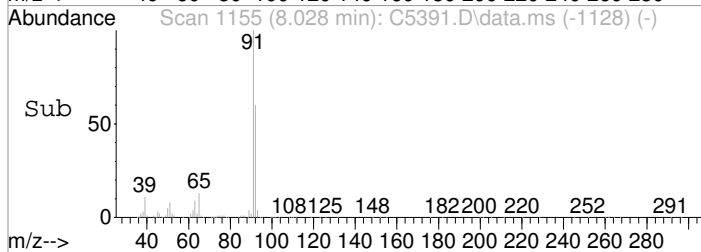
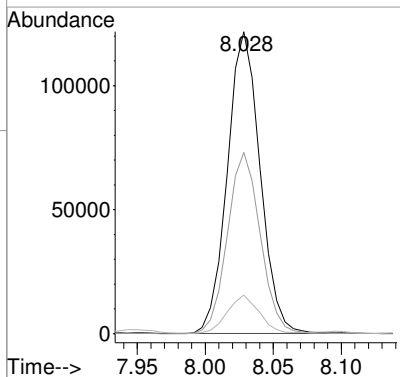
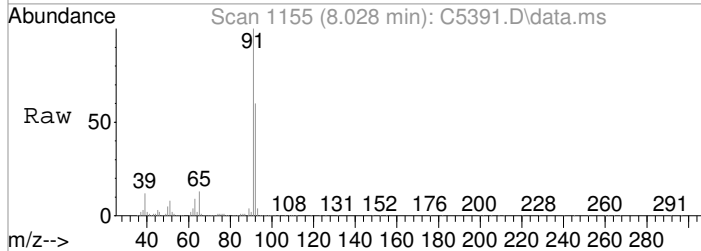
Tgt Ion	Resp	Lower	Upper
55	100		
83	82.1	110.9	150.9#
98	22.6	42.5	82.5#





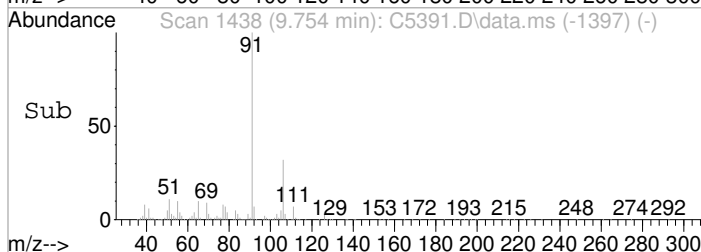
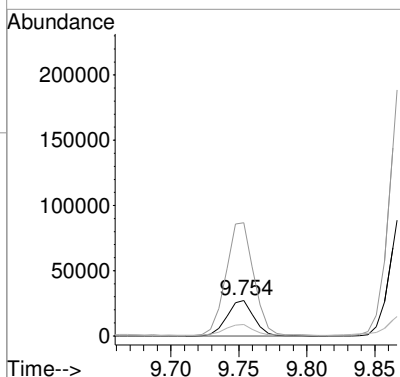
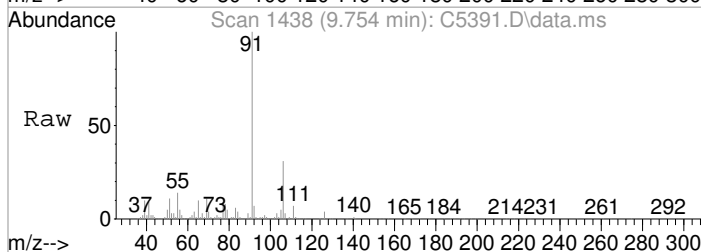
#65  
 Toluene  
 Concen: 15.83 ug/L  
 RT: 8.028 min Scan# 1155  
 Delta R.T. -0.006 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

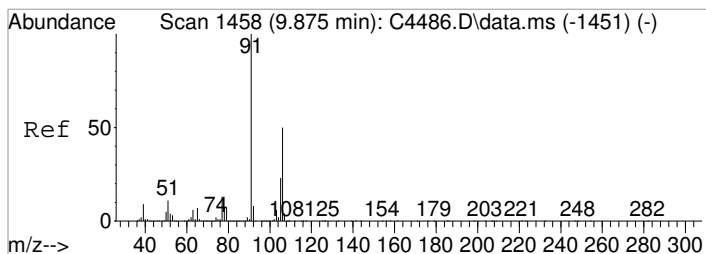
Tgt Ion	Resp	Lower	Upper
91	100		
92	60.0	39.7	79.7
65	12.8	0.0	31.2



#81  
 Ethylbenzene  
 Concen: 8.33 ug/L  
 RT: 9.754 min Scan# 1438  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

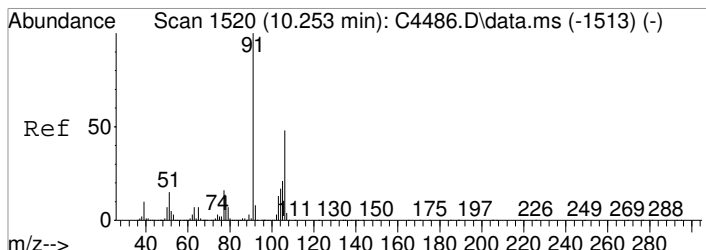
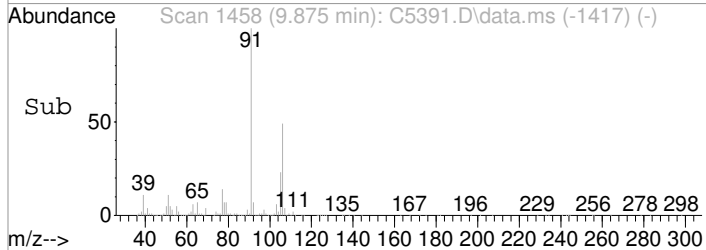
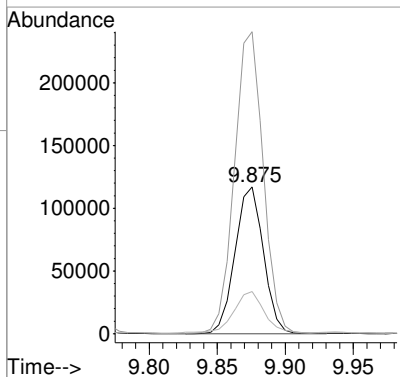
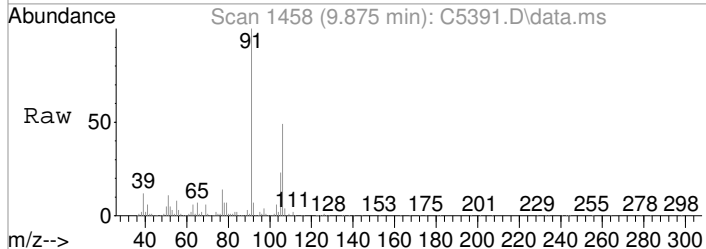
Tgt Ion	Resp	Lower	Upper
106	100		
91	318.2	296.2	336.2
65	32.1	7.9	47.9





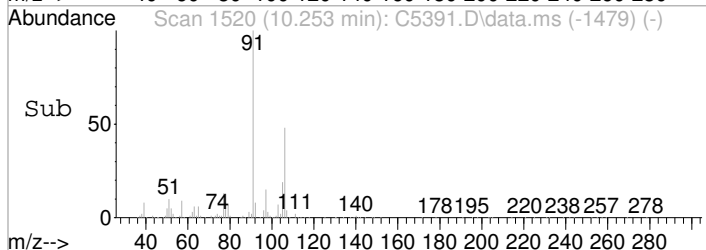
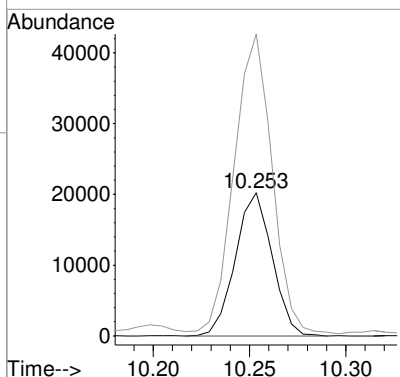
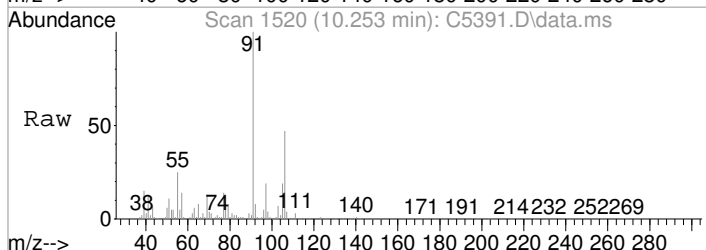
#82  
 (m+p)Xylene  
 Concen: 30.54 ug/L  
 RT: 9.875 min Scan# 1458  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

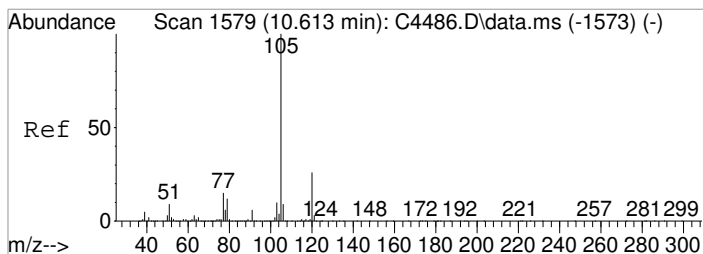
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		170656		
91	205.9	180.0	220.0		
77	28.7	6.0	46.0		



#83  
 o-Xylene  
 Concen: 4.90 ug/L  
 RT: 10.253 min Scan# 1520  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

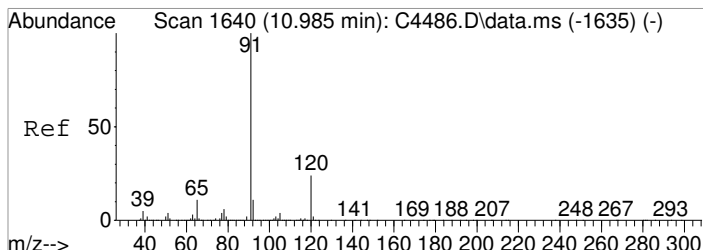
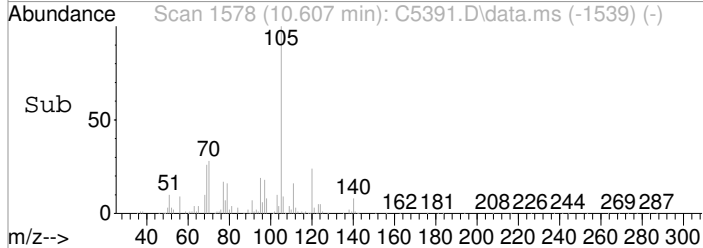
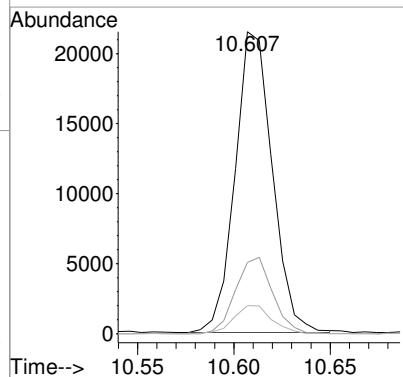
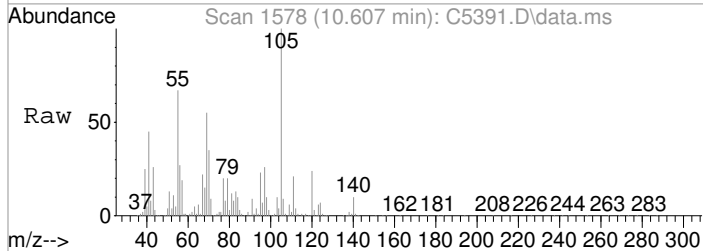
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
106	100		26786		
91	210.7	188.1	228.1		





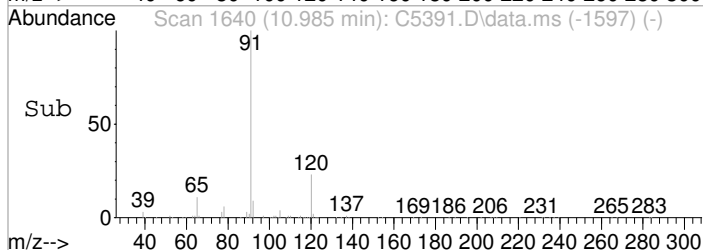
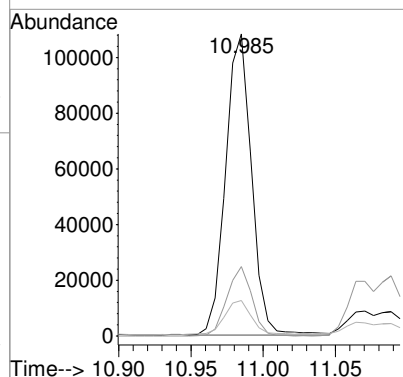
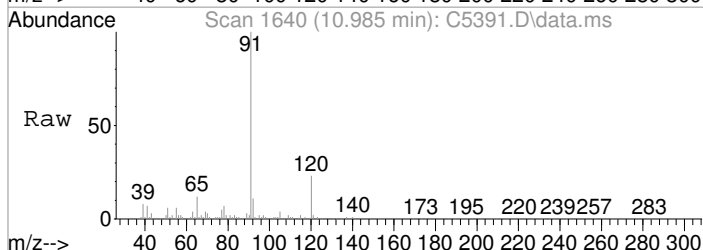
#87  
 Isopropylbenzene  
 Concen: 2.00 ug/L  
 RT: 10.607 min Scan# 1578  
 Delta R.T. -0.006 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

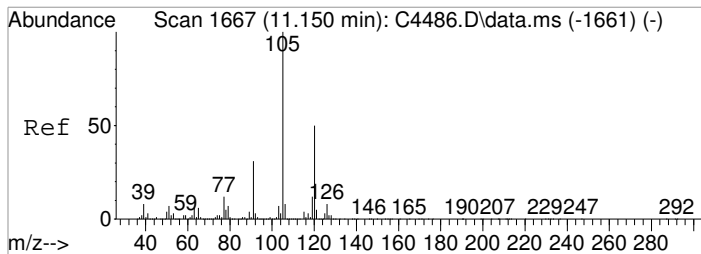
Tgt Ion	Resp	Lower	Upper
105	28858		
120	23.6	6.5	46.5
106	9.3	0.0	28.7



#94  
 n-Propylbenzene  
 Concen: 8.36 ug/L  
 RT: 10.985 min Scan# 1640  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

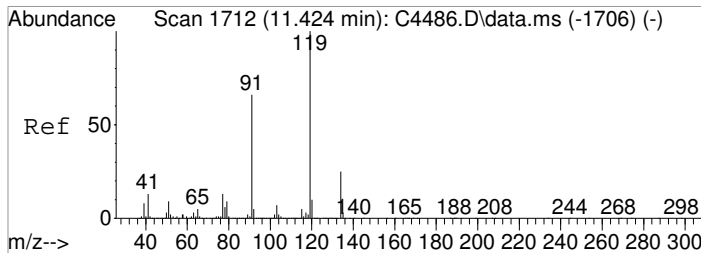
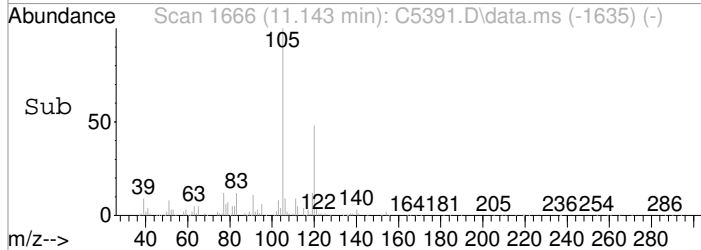
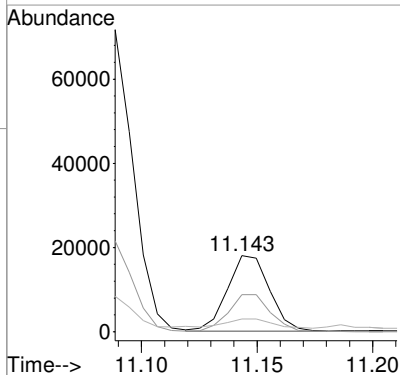
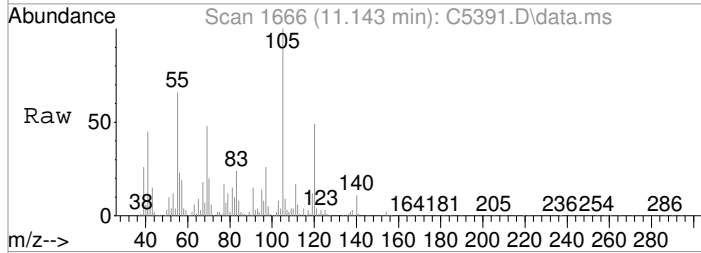
Tgt Ion	Resp	Lower	Upper
91	135253		
120	23.0	3.5	43.5
65	11.7	0.0	30.5





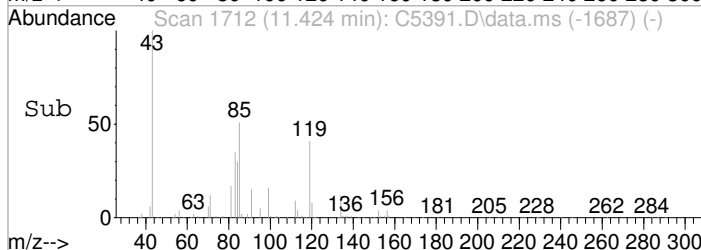
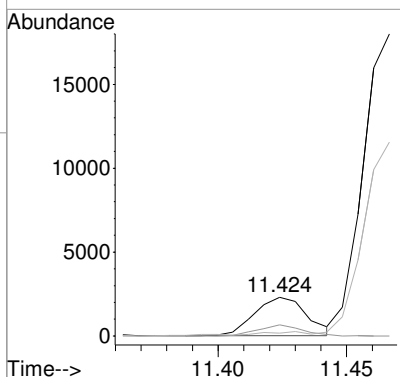
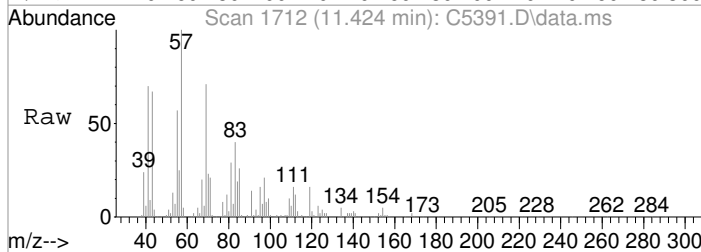
#98  
 1,3,5-Trimethylbenzene  
 Concen: 1.94 ug/L  
 RT: 11.143 min Scan# 1666  
 Delta R.T. -0.006 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

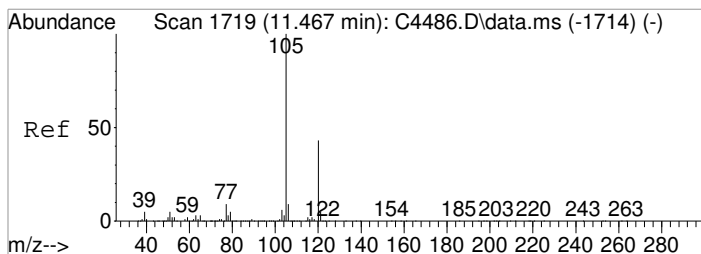
Tgt Ion	Resp	Lower	Upper
105	22699		
120	48.6	30.1	70.1
77	16.9	0.0	32.3



#99  
 tert-Butylbenzene  
 Concen: 0.31 ug/L  
 RT: 11.424 min Scan# 1712  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

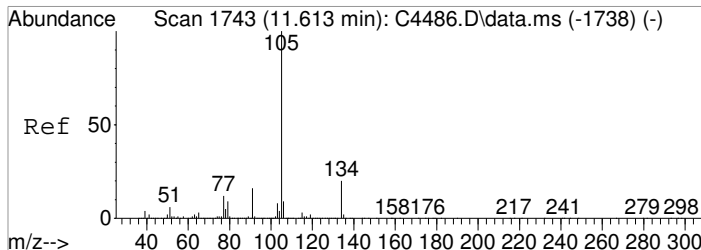
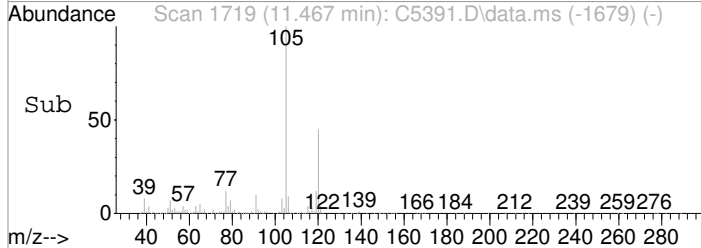
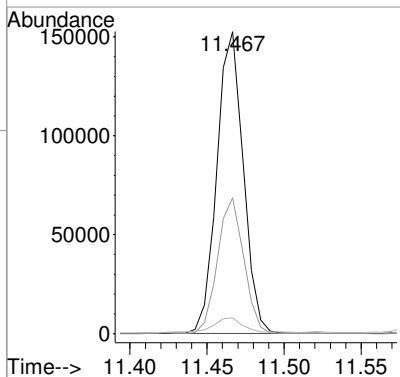
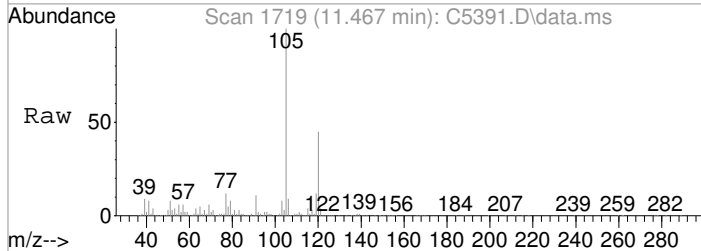
Tgt Ion	Resp	Lower	Upper
119	3248		
134	29.0	5.0	45.0
103	7.2	0.0	26.7





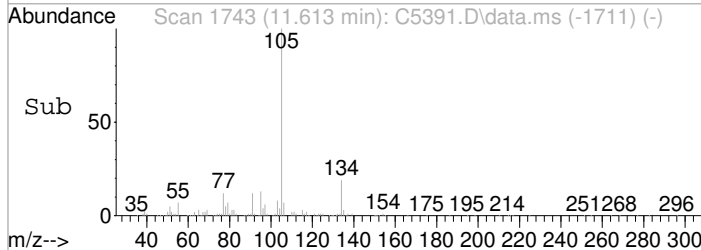
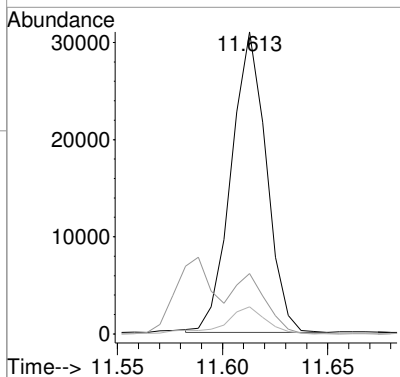
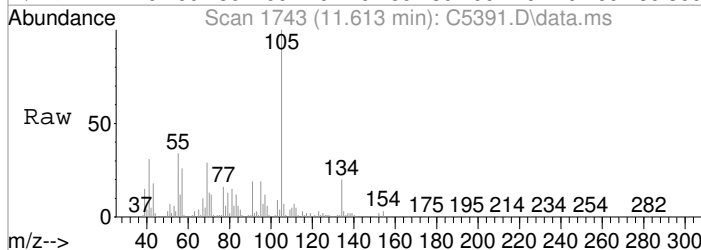
#100  
 1,2,4-Trimethylbenzene  
 Concen: 15.16 ug/L  
 RT: 11.467 min Scan# 1719  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

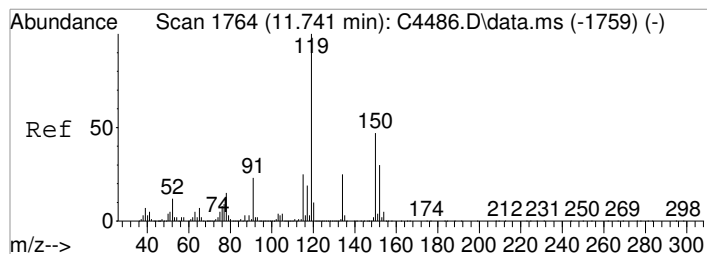
Tgt Ion	Resp	Lower	Upper
105	181428		
120	45.0	26.0	66.0
65	5.2	0.0	24.5



#102  
 sec-Butylbenzene  
 Concen: 2.40 ug/L  
 RT: 11.613 min Scan# 1743  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

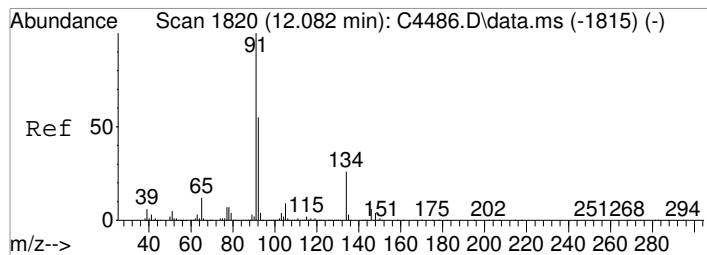
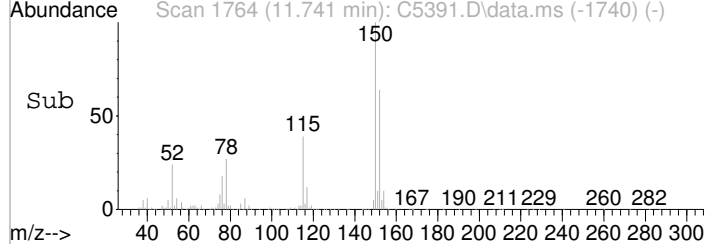
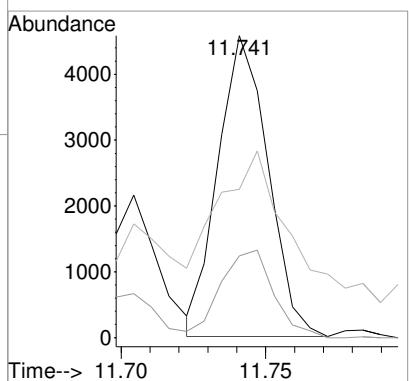
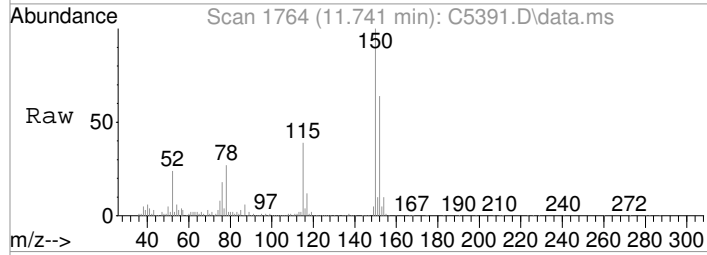
Tgt Ion	Resp	Lower	Upper
105	35749		
134	20.0	0.0	39.8
103	8.9	0.0	28.3





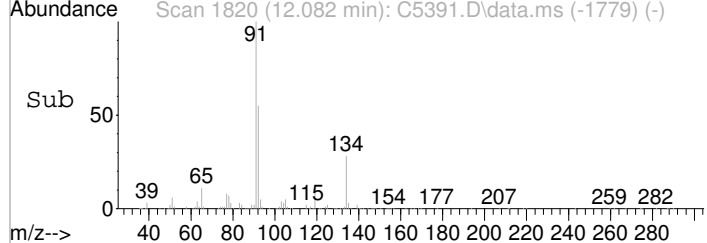
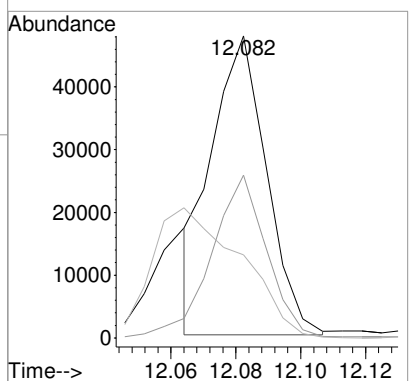
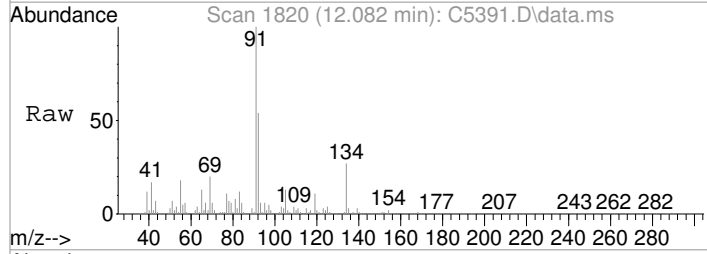
#103  
 p-Isopropyltoluene  
 Concen: 0.43 ug/L  
 RT: 11.741 min Scan# 1764  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

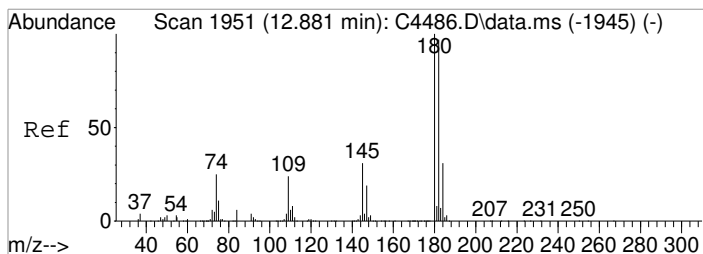
Tgt Ion	Resp	Lower	Upper
119	100		
134	27.1	5.0	45.0
91	49.1	2.7	42.7#



#108  
 n-Butylbenzene  
 Concen: 4.92 ug/L m  
 RT: 12.082 min Scan# 1820  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

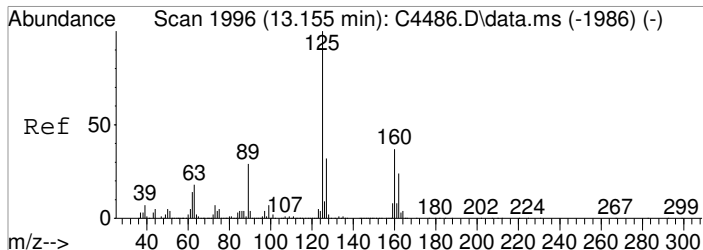
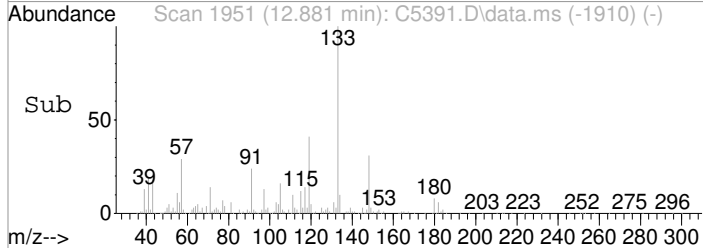
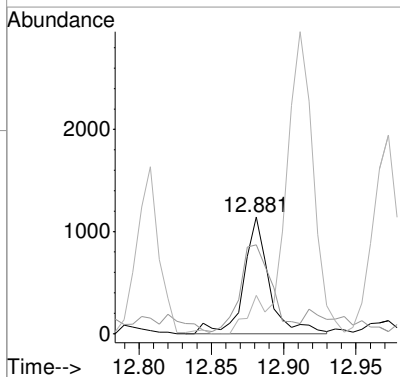
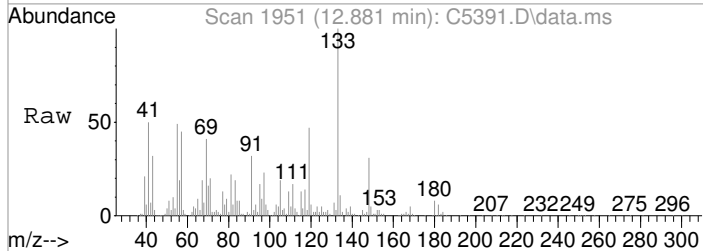
Tgt Ion	Resp	Lower	Upper
91	100		
92	53.9	34.8	74.8
134	27.5	6.4	46.4





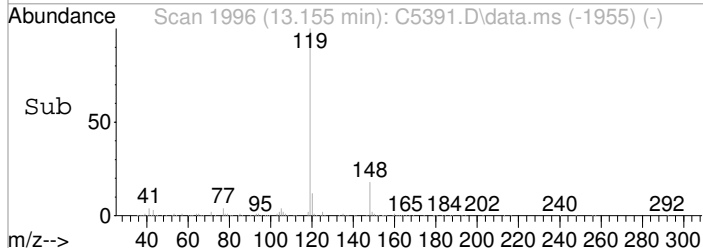
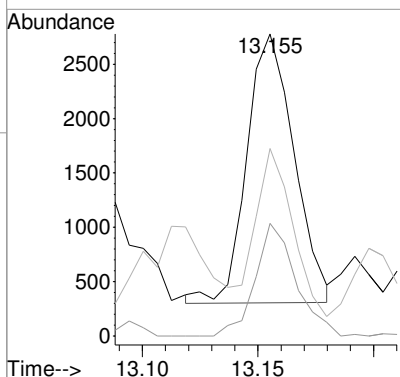
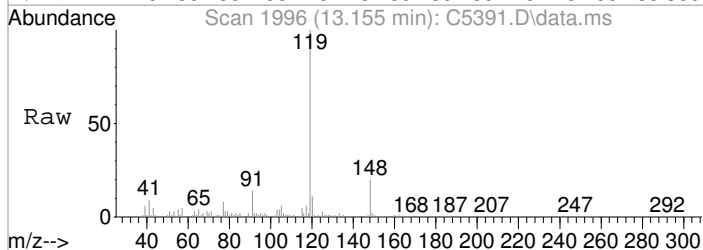
#112  
 1,3,5-Trichlorobenzene  
 Concen: 0.25 ug/L  
 RT: 12.881 min Scan# 1951  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

Tgt Ion	Resp	Lower	Upper
180	1389		
182	76.1	77.3	117.3#
145	32.8	10.8	50.8

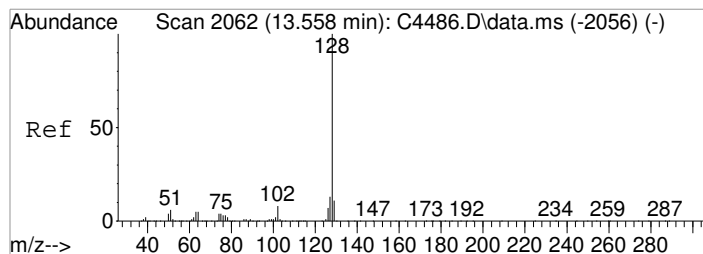


#113  
 Coelution Dichlorotoluene  
 Concen: 0.50 ug/L  
 RT: 13.155 min Scan# 1996  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

Tgt Ion	Resp	Lower	Upper
125	3504		
160	37.3	17.2	57.2
89	62.1	9.4	49.4#

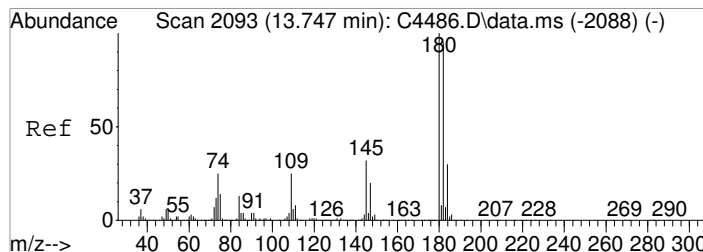
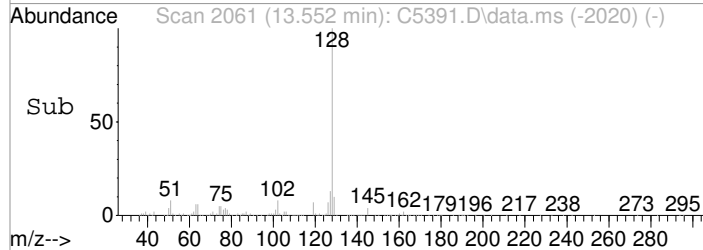
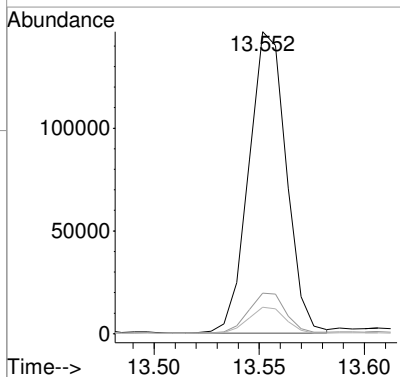
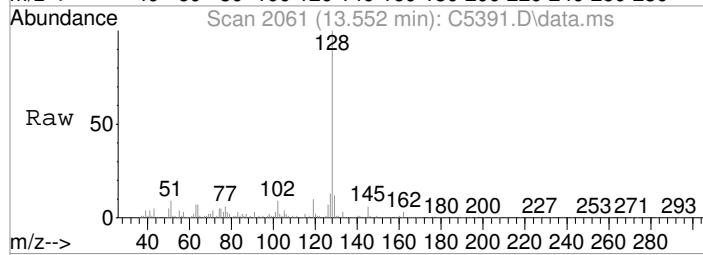






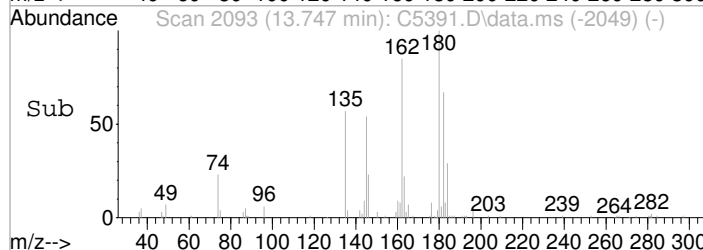
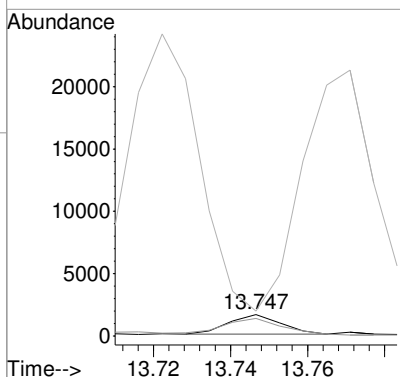
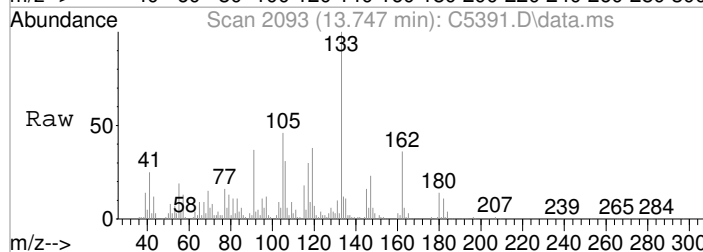
#116  
 Naphthalen  
 Concen: 11.47 ug/L  
 RT: 13.552 min Scan# 2061  
 Delta R.T. -0.006 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

Tgt Ion	Resp	Lower	Upper
128	180982		
127	13.5	0.0	33.0
102	8.7	0.0	28.1



#117  
 1,2,3-Tclbenzene  
 Concen: 0.28 ug/L  
 RT: 13.747 min Scan# 2093  
 Delta R.T. 0.000 min  
 Lab File: C5391.D  
 Acq: 8 Mar 2018 2:43 pm

Tgt Ion	Resp	Lower	Upper
180	1480		
182	82.5	75.3	115.3
145	116.9	12.0	52.0#



Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5390.D  
 Acq On : 8 Mar 2018 2:14 pm  
 Operator : F. NAEGLER  
 Sample : MEDBLK|50.0 Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 08 14:39:41 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

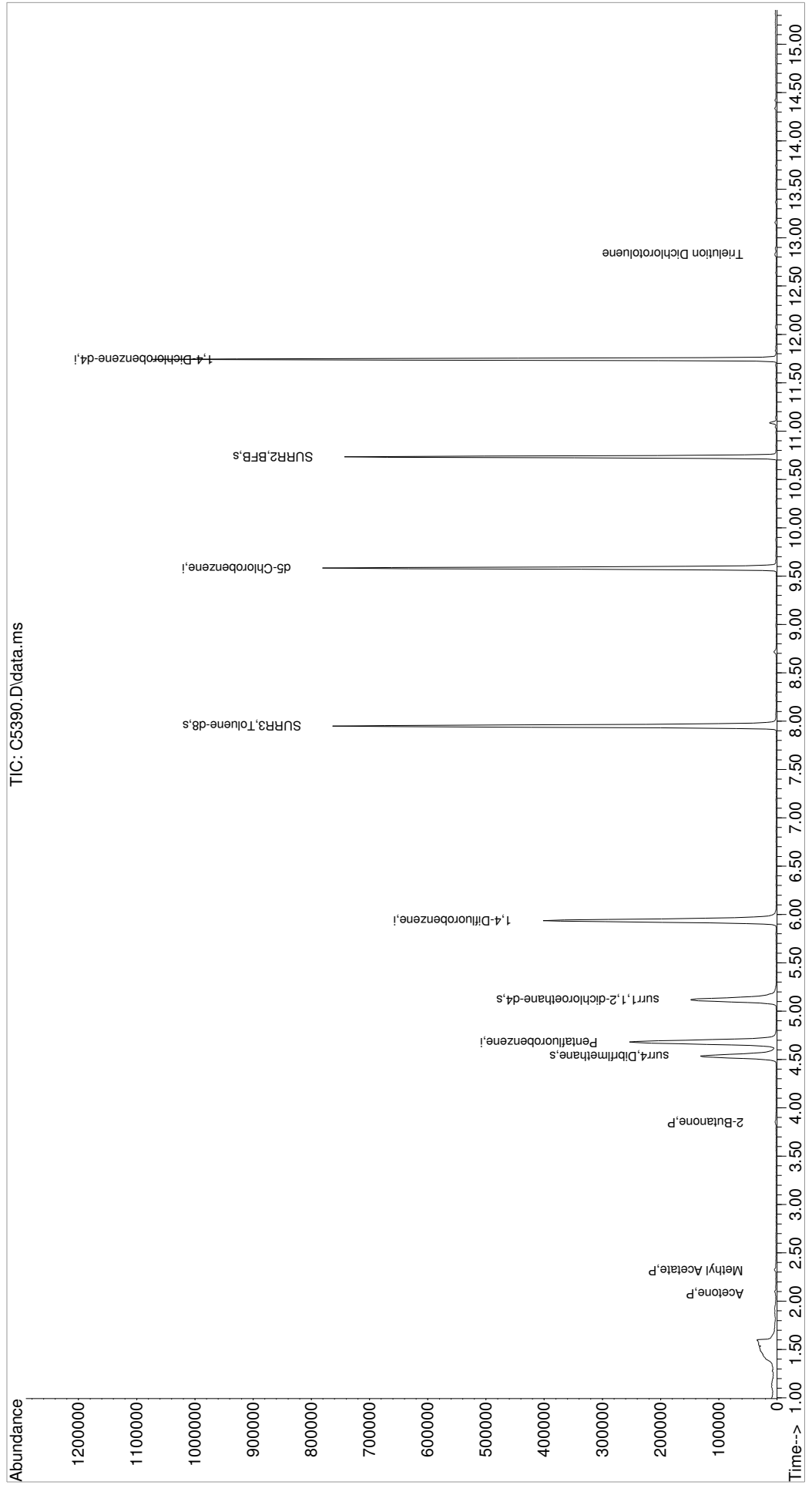
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.681	168	254604	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	394819	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	350302	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	195762	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	115872	44.26	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	88.52%#	<i>rounds up</i>
47) surr1,1,2-dichloroetha...	5.120	65	166141	52.00	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	104.00%	
64) SURR3,Toluene-d8	7.949	98	485040	49.22	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.44%	
69) SURR2,BFB	10.735	95	195615	49.39	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.78%	
Target Compounds						
5) Bromomethane	1.401	94	561	Below Cal	Qvalue #	77
15) Acetone	2.078	43	1733	1.03	ug/L	98
21) Methyl Acetate	2.322	43	2968	0.99	ug/L	90
34) 2-Butanone	3.852	43	3875	1.87	ug/L	89
111) Trielution Dichlorotol...	12.832	125	1398	0.23	ug/L	90

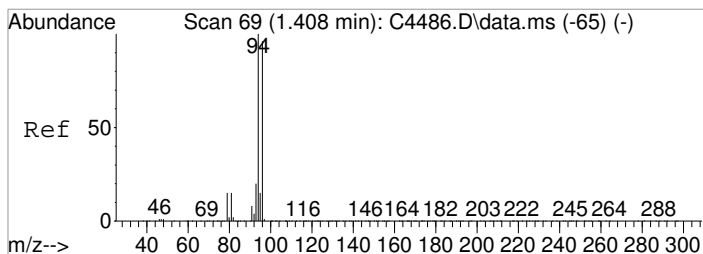
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5390.D  
 Acq On : 8 Mar 2018 2:14 pm  
 Operator : F. NAEGLER  
 Sample : MEDBLK|50.0  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

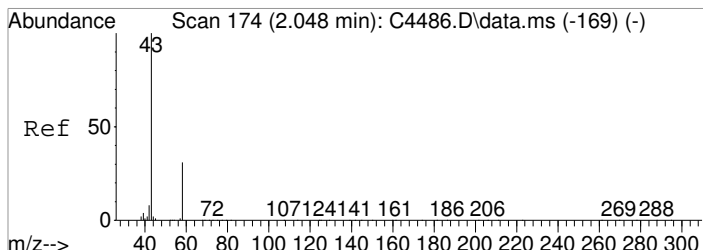
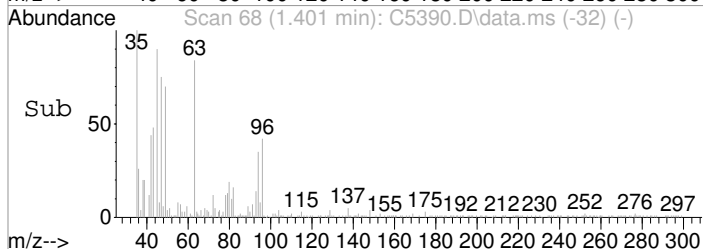
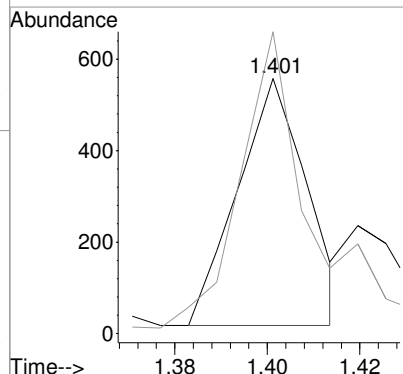
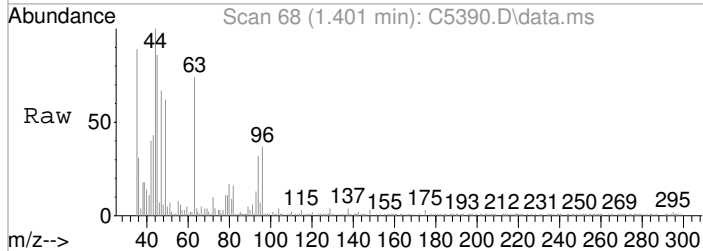
Quant Time: Mar 08 14:39:41 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration





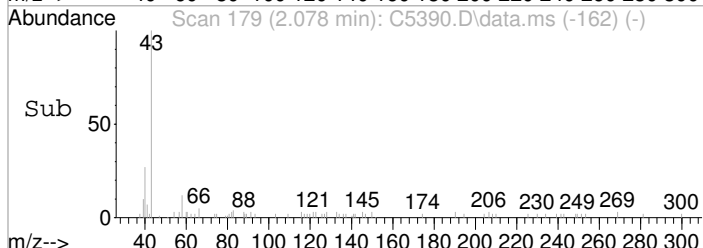
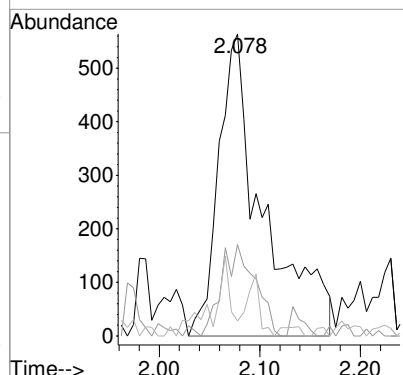
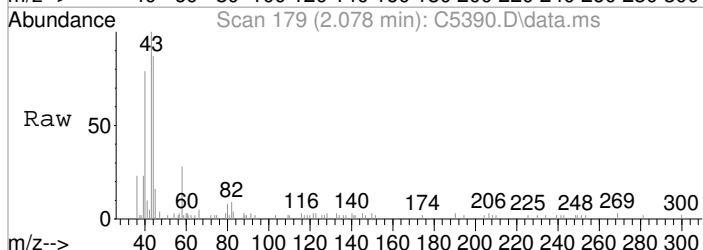
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.401 min Scan# 68  
 Delta R.T. -0.006 min  
 Lab File: C5390.D  
 Acq: 8 Mar 2018 2:14 pm

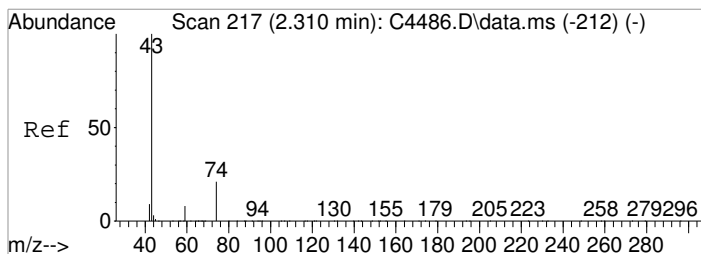
Tgt Ion	Resp	Lower	Upper
94	100		
96	118.3	75.8	115.8#



#15  
 Acetone  
 Concen: 1.03 ug/L  
 RT: 2.078 min Scan# 179  
 Delta R.T. 0.030 min  
 Lab File: C5390.D  
 Acq: 8 Mar 2018 2:14 pm

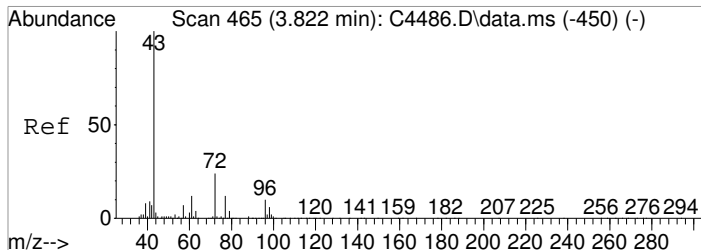
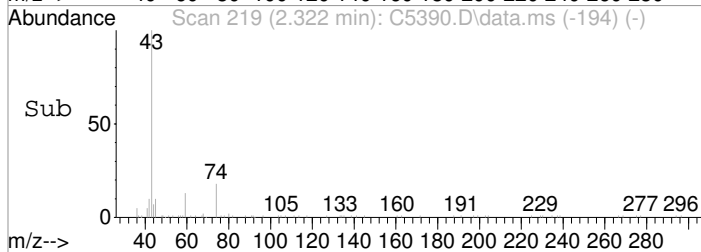
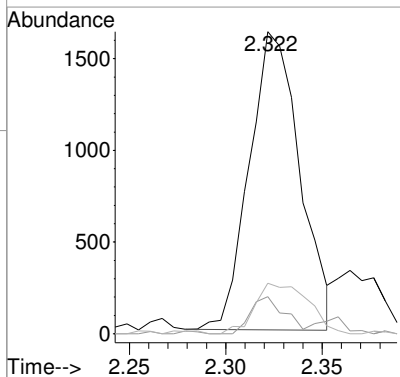
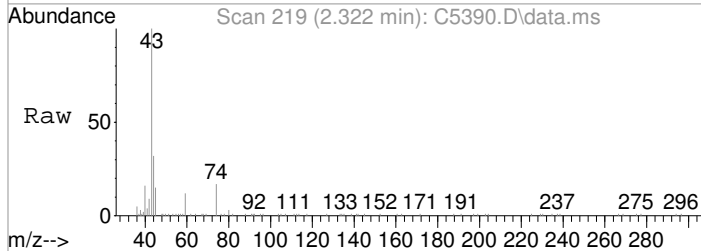
Tgt Ion	Resp	Lower	Upper
43	100		
58	30.3	10.7	50.7
42	5.0	0.0	28.2





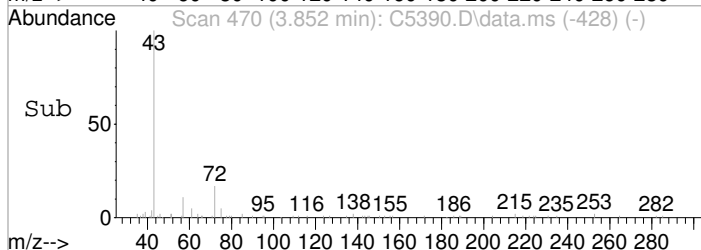
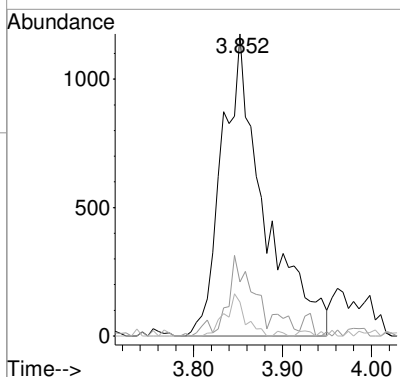
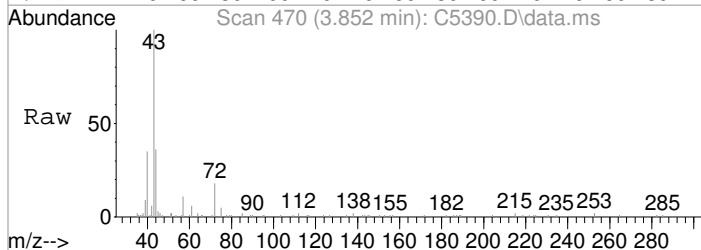
#21  
 Methyl Acetate  
 Concen: 0.99 ug/L  
 RT: 2.322 min Scan# 219  
 Delta R.T. 0.012 min  
 Lab File: C5390.D  
 Acq: 8 Mar 2018 2:14 pm

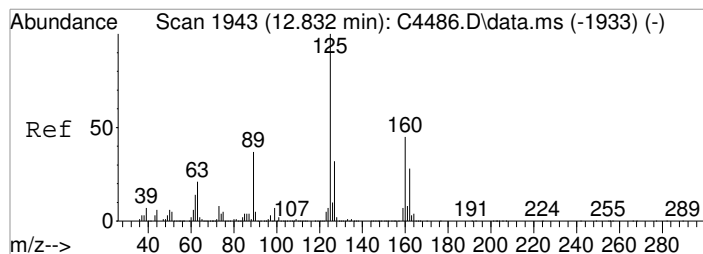
Tgt Ion	Resp	Lower	Upper
43	2968		
59	12.3	0.0	28.4
74	16.8	1.5	41.5



#34  
 2-Butanone  
 Concen: 1.87 ug/L  
 RT: 3.852 min Scan# 470  
 Delta R.T. 0.030 min  
 Lab File: C5390.D  
 Acq: 8 Mar 2018 2:14 pm

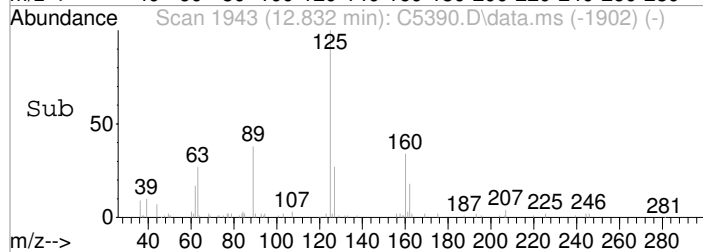
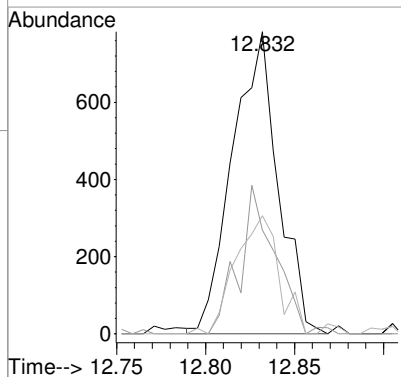
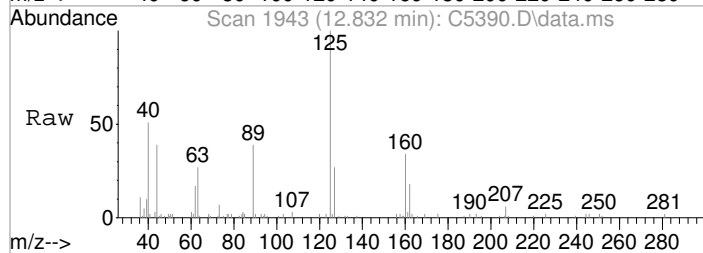
Tgt Ion	Resp	Lower	Upper
43	3875		
72	17.9	3.7	43.7
57	11.2	0.0	27.6





#111  
 Trielution Dichlorotoluene  
 Concen: 0.23 ug/L  
 RT: 12.832 min Scan# 1943  
 Delta R.T. -0.000 min  
 Lab File: C5390.D  
 Acq: 8 Mar 2018 2:14 pm

Tgt Ion	Resp	Lower	Upper
125	1398		
160	34.4	24.5	64.5
89	39.1	16.7	56.7



Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5387.D  
 Acq On : 8 Mar 2018 1:04 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 13:20:35 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	285030	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	445695	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	387814	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	206185	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	140507	47.55	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	95.10%		
47) surr1,1,2-dichloroetha...	5.120	65	184267	51.09	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	102.18%		
64) SURR3,Toluene-d8	7.949	98	548449	49.31	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.62%		
69) SURR2,BFB	10.735	95	216824	48.50	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	97.00%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	80386	20.78	ug/L	99
3) Chloromethane	1.158	50	74449	16.74	ug/L	99
4) Vinyl Chloride	1.219	62	68912	19.05	ug/L	100
5) Bromomethane	1.408	94	37460	16.53	ug/L	96
6) Chloroethane	1.475	64	32622	15.78	ug/L	94
7) Freon 21	1.603	67	111031	20.06	ug/L	99
8) Trichlorofluoromethane	1.645	101	80916	19.62	ug/L	97
9) Diethyl Ether	1.847	59	56378	21.50	ug/L	96
10) Freon 123a	1.847	67	78721	23.19	ug/L	90
11) Freon 123	1.889	83	83934	21.61	ug/L	96
12) Acrolein	1.926	56	30961	38.75	ug/L	99
13) 1,1-Dicethene	2.005	96	50308	19.19	ug/L	95
14) Freon 113	2.011	101	50054	19.46	ug/L	84
15) Acetone	2.042	43	33717	17.95	ug/L	98
16) 2-Propanol	2.157	45	104645	286.89	ug/L	96
17) Iodomethane	2.121	142	78489	39.16	ug/L	93
18) Carbon Disulfide	2.176	76	161157	21.04	ug/L	100
19) Acetonitrile	2.255	40	29956	92.22	ug/L	98
20) Allyl Chloride	2.292	76	29271	23.14	ug/L #	90
21) Methyl Acetate	2.310	43	58257	17.44	ug/L	100
22) Methylene Chloride	2.389	84	58418	19.52	ug/L	93
23) TBA	2.499	59	172144	279.73	ug/L	90
24) Acrylonitrile	2.602	53	160826	100.13	ug/L	98
25) Methyl-t-Butyl Ether	2.651	73	189845	18.96	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	54202	19.21	ug/L	94
27) 1,1-Dicethane	3.066	63	106159	20.34	ug/L	98
28) Vinyl Acetate	3.145	86	14293	19.66	ug/L #	75
29) DIPE	3.182	45	219362	21.85	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.176	53	107068	23.58	ug/L	98
31) ETBE	3.633	59	193419	19.43	ug/L	98
32) 2,2-Dichloropropane	3.779	77	82305	17.93	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	60925	18.13	ug/L	86
34) 2-Butanone	3.822	43	43424	18.67	ug/L	95
35) Propionitrile	3.883	54	64772	91.70	ug/L	99
36) Bromochloromethane	4.120	130	39196	19.20	ug/L #	89
37) Methacrylonitrile	4.120	67	31336	18.66	ug/L	94
38) Tetrahydrofuran	4.206	42	25875	17.69	ug/L	95
39) Chloroform	4.279	83	101396	19.07	ug/L	100
40) 1,1,1-Trichloroethane	4.553	97	84728	17.93	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5387.D  
 Acq On : 8 Mar 2018 1:04 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 13:20:35 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	185679	18.76	ug/L	97
43) Cyclohexane	4.639	41	61881	19.72	ug/L	98
45) Carbontetrachloride	4.846	117	66940	15.75	ug/L	97
46) 1,1-Dichloropropene	4.852	75	78586	18.04	ug/L	96
48) Benzene	5.218	78	225084	18.35	ug/L	98
49) 1,2-Dichloroethane	5.260	62	90620	18.60	ug/L	98
50) Iso-Butyl Alcohol	5.254	43	73656	255.16	ug/L	96
51) n-Heptane	5.803	43	78210	19.61	ug/L	97
52) 1-Butanol	6.370	56	103783	595.64	ug/L	93
53) Trichloroethene	6.303	130	57747	16.94	ug/L	94
54) Methylcyclohexane	6.571	55	80668	19.68	ug/L	91
55) 1,2-Diclpropane	6.608	63	63202	19.09	ug/L	96
56) Dibromomethane	6.766	93	39162	17.51	ug/L	91
57) 1,4-Dioxane	6.852	88	20907	279.65	ug/L	99
58) Methyl Methacrylate	6.888	69	51093	16.70	ug/L	93
59) Bromodichloromethane	7.028	83	75008	17.51	ug/L	98
60) 2-Nitropropane	7.339	41	29921	24.24	ug/L	93
61) 2-Chloroethylvinyl Ether	7.492	63	33441	25.24	ug/L	94
62) cis-1,3-Dichloropropene	7.626	75	95891	17.74	ug/L	100
63) 4-Methyl-2-pentanone	7.864	43	77541	17.19	ug/L	97
65) Toluene	8.028	91	239587	17.71	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	85627	16.71	ug/L	96
67) Ethyl Methacrylate	8.504	69	89813	17.34	ug/L	93
68) 1,1,2-Trichloroethane	8.528	97	56386	17.51	ug/L	98
71) Tetrachloroethene	8.674	164	44672	16.54	ug/L	99
72) 2-Hexanone	8.870	43	57021	16.84	ug/L	98
73) 1,3-Dichloropropane	8.717	76	102482	18.71	ug/L	98
74) Dibromochloromethane	8.967	129	56319	16.24	ug/L	97
75) N-Butyl Acetate	9.059	43	118956	17.20	ug/L	97
76) 1,2-Dibromoethane	9.059	107	57701	17.47	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	94335	17.94	ug/L	98
78) Chlorobenzene	9.613	112	152818	17.24	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	85249	17.77	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.711	131	53518	16.57	ug/L	99
81) Ethylbenzene	9.754	106	79919	17.11	ug/L	92
82) (m+p)Xylene	9.875	106	202779	34.84	ug/L	97
83) o-Xylene	10.253	106	98543	17.30	ug/L	91
84) Styrene	10.266	104	170429	17.39	ug/L	99
85) Bromoform	10.418	173	36199	14.27	ug/L	97
86) 2-Chlorobenzotrifluoride	10.516	180	89443	17.40	ug/L	96
87) Isopropylbenzene	10.613	105	257484	17.14	ug/L	99
88) Cyclohexanone	10.662	55	248607	300.02	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	24820	19.03	ug/L	87
91) 1,1,2,2-Tetrachloroethane	10.887	83	82411	17.76	ug/L	99
92) Bromobenzene	10.851	156	64337	17.18	ug/L	92
93) 1,2,3-Trichloropropane	10.906	110	26107	16.89	ug/L	99
94) n-Propylbenzene	10.985	91	302624	18.58	ug/L	97
95) 2-Chlorotoluene	11.040	91	180646	18.33	ug/L	97
96) 3-Chlorotoluene	11.095	91	213584	20.09	ug/L	99
97) 4-Chlorotoluene	11.137	91	204769	17.71	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	212303	18.00	ug/L	96
99) tert-Butylbenzene	11.424	119	179600	17.13	ug/L	98
100) 1,2,4-Trimethylbenzene	11.467	105	218111	18.09	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.534	214	71583	17.59	ug/L	96
102) sec-Butylbenzene	11.613	105	267883	17.87	ug/L	98
103) p-Isopropyltoluene	11.741	119	223974	17.30	ug/L	98



Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5387.D  
 Acq On : 8 Mar 2018 1:04 pm  
 Operator : F. NAEGLER  
 Sample : LCS Inst : MSVOA14  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 08 13:20:35 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

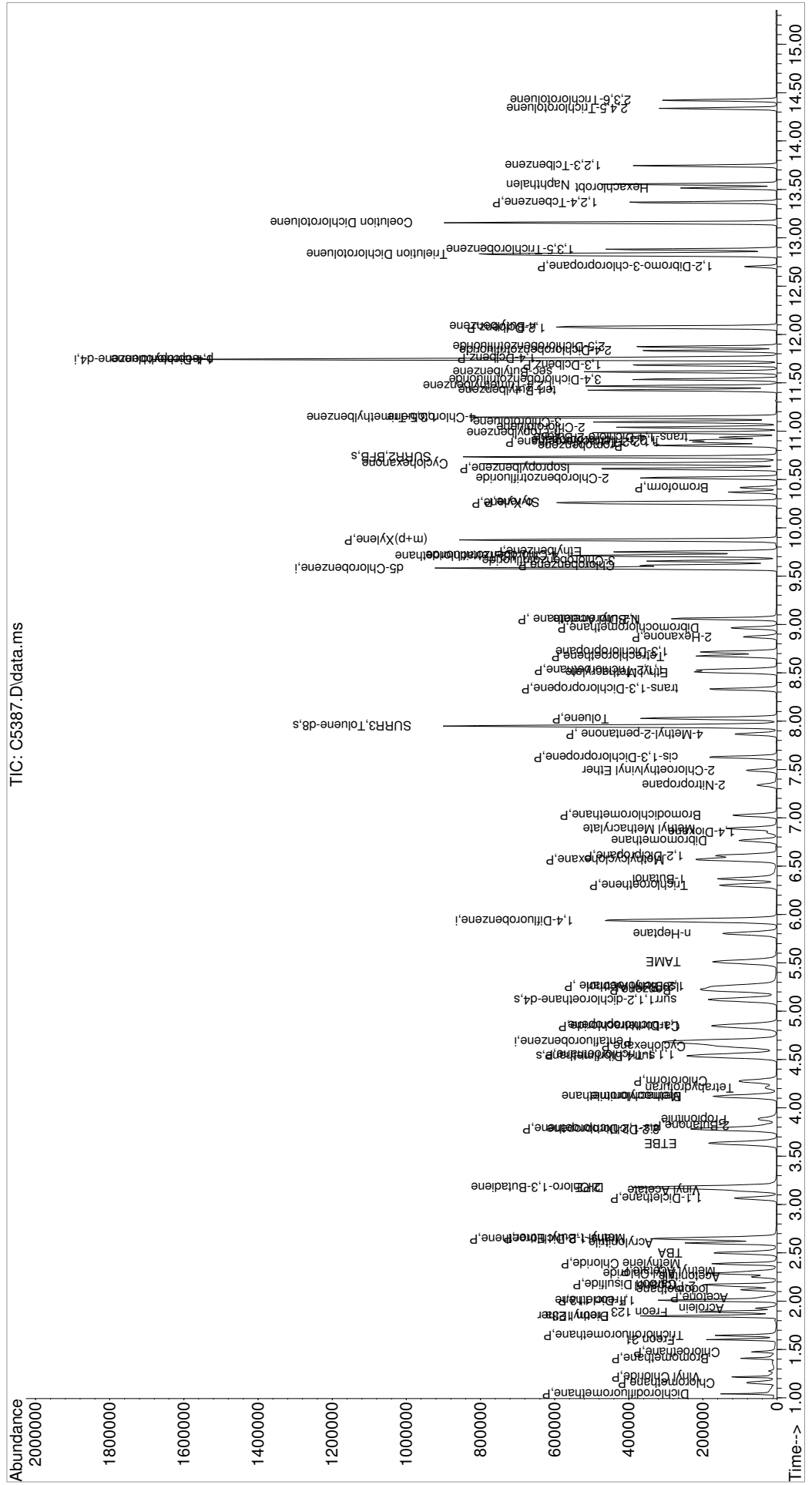
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	121460	17.11	ug/L	98
105) 1,4-Dclbenz	11.759	146	124634	16.90	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.832	214	65464	17.70	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.875	214	73707	17.74	ug/L	98
108) n-Butylbenzene	12.082	91	211368	18.36	ug/L	98
109) 1,2-Dclbenz	12.070	146	120670	17.16	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	16520	13.02	ug/L	94
111) Trielution Dichlorotol...	12.832	125	361035	55.66	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	99092	17.98	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	264144	37.45	ug/L	99
114) 1,2,4-Tcbenzene	13.369	180	87169	16.49	ug/L	99
115) Hexachlorobt	13.515	225	36729	15.28	ug/L	96
116) Naphthalen	13.552	128	260931	16.42	ug/L	98
117) 1,2,3-Tclbenzene	13.747	180	84685	16.17	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	60548	15.48	ug/L	97
119) 2,3,6-Trichlorotoluene	14.423	159	56396	15.70	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\030818\  
 Data File : C5387.D  
 Acq On : 8 Mar 2018 1:04 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

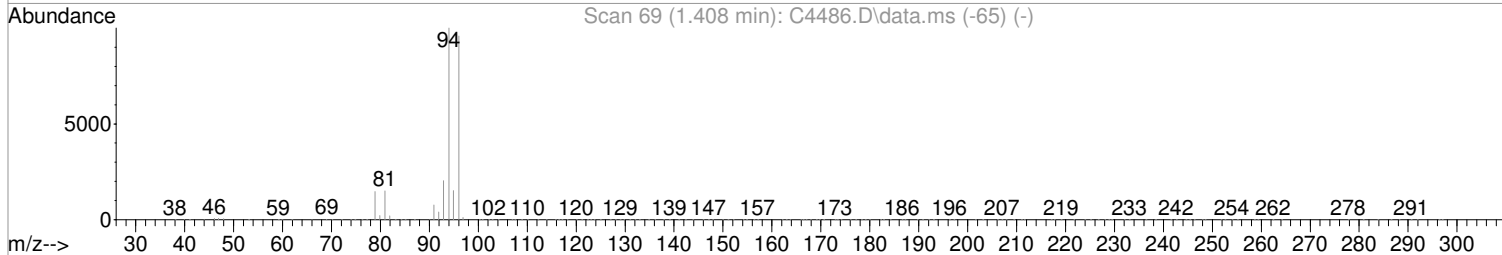
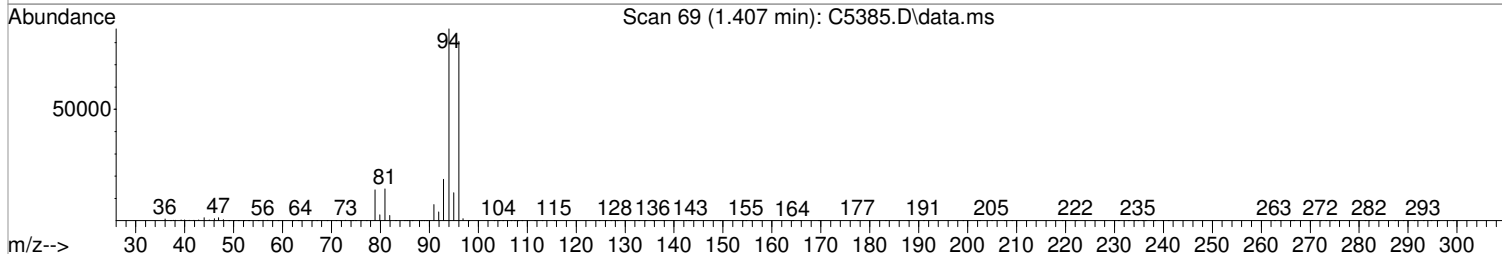
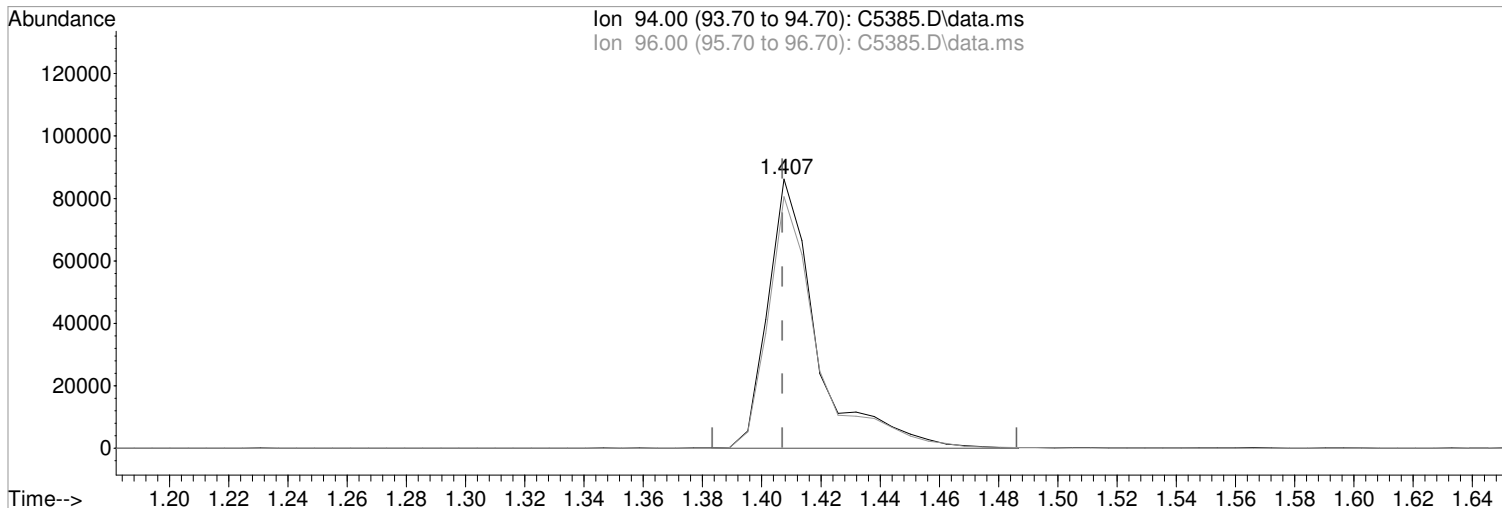
Quant Time: Mar 08 13:20:35 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
Data File : C5385.D  
Acq On : 8 Mar 2018 11:46 am  
Operator : F. NAEGLER  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 12:10:21 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



TIC: C5385.D\data.ms

(5) Bromomethane (P)

1.407min (+0.000) 48.23 ug/L m

response 100052

Ion	Exp%	Act%
94.00	100	100
96.00	95.80	93.55
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

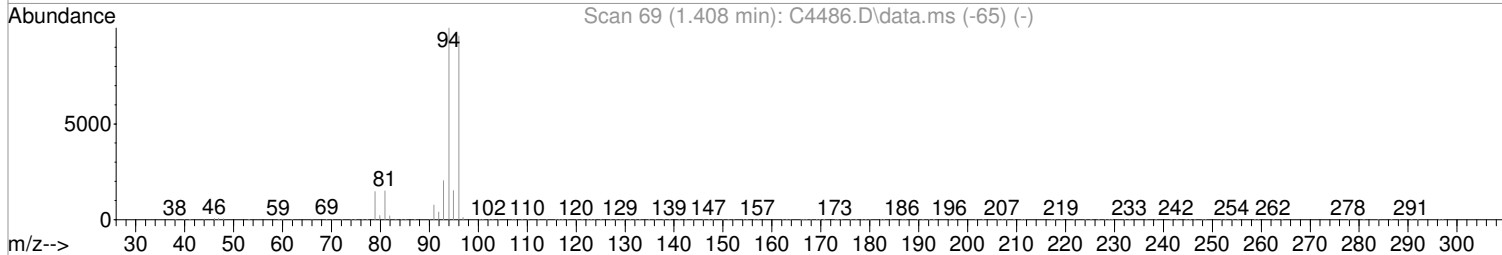
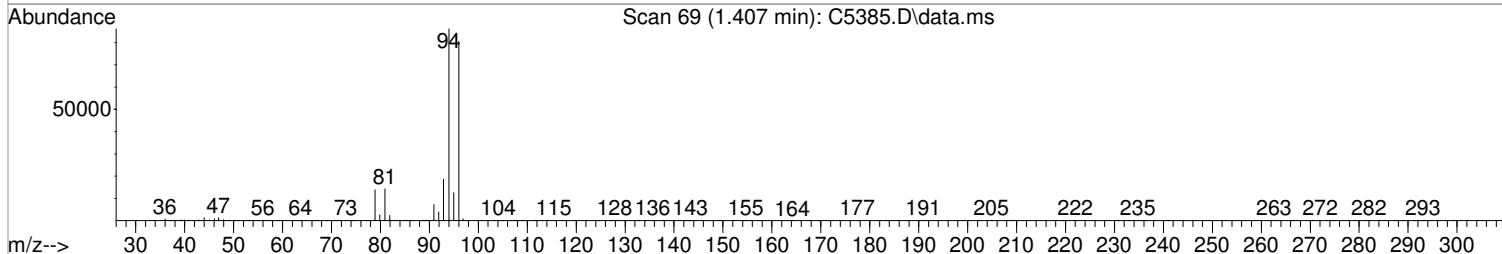
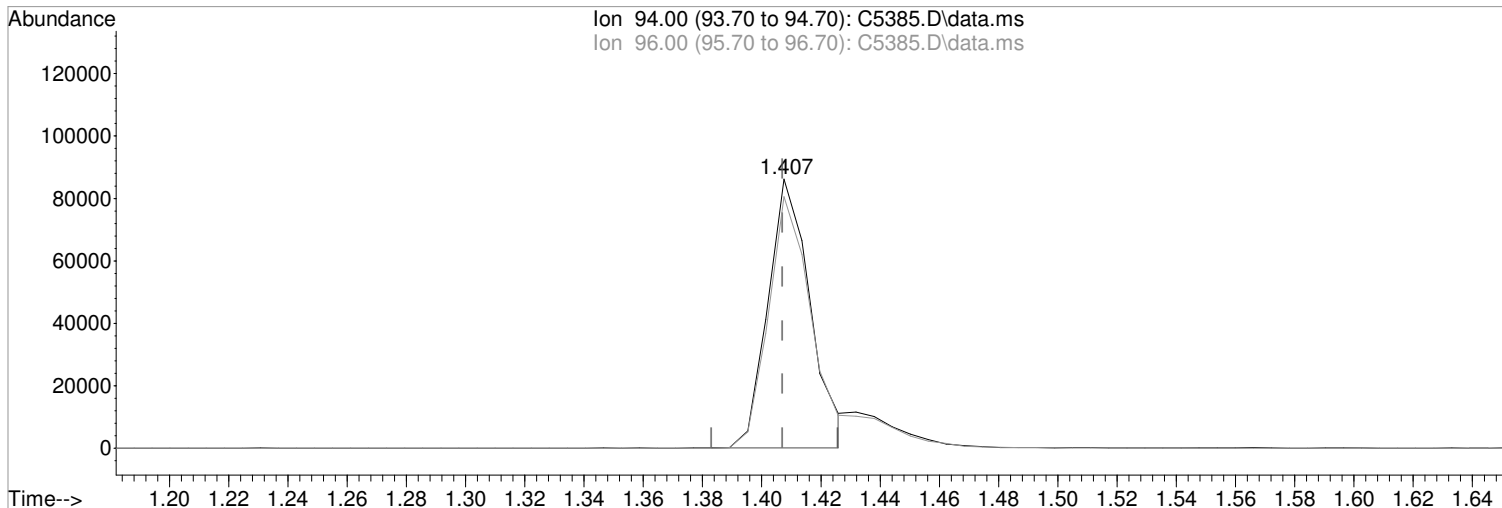
Poor integration.

03/08/18

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
Data File : C5385.D  
Acq On : 8 Mar 2018 11:46 am  
Operator : F. NAEGLER  
Sample : CCV  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 12:10:21 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



TIC: C5385.D\data.ms

(5) Bromomethane (P)  
1.407min (+0.000) 40.39 ug/L  
response 85683

Manual Integration:  
Before

Ion	Exp%	Act%
94.00	100	100
96.00	95.80	93.55
0.00	0.00	0.00
0.00	0.00	0.00

03/08/18

Evaluate Continuing Calibration Report

1st *FJ* 03/08/18  
 2nd *RL* 03/08/18

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5385.D  
 Acq On : 8 Mar 2018 11:46 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 12:18:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i Pentafluorobenzene	1.000	1.000	0.0	112	0.00	
2	P Dichlorodifluoromethane	0.679	0.629	7.4	97	0.00	
3	P Chloromethane	0.780	0.710	9.0	104	0.00	
4	P Vinyl Chloride	0.635	0.627	1.3	106	0.00	
5	P Bromomethane	0.419	0.349	3.5	<del>16.7</del> 107	0.00	
6	P Chloroethane	0.363	0.375	-3.3	107	0.00	
7	Freon 21	0.971	1.009	-3.9	112	0.00	
8	P Trichlorofluoromethane	0.724	0.702	3.0	99	0.00	
9	Diethyl Ether	0.460	0.485	-5.4	115	0.00	
10	Freon 123a	0.595	0.676	-13.6	122	0.00	
11	Freon 123	0.681	0.742	-9.0	115	0.00	
12	Acrolein	0.140	0.133	5.0	104	0.00	
13	1,1-Dicethene	0.460	0.449	2.4	106	0.00	
14	P Freon 113	0.451	0.470	-4.2	113	0.00	
15	P Acetone	0.330	0.272	17.6	98	0.00	
16	2-Propanol	0.064	0.046	28.1#	79	0.00	NT
17	Iodomethane	0.409	0.766	-73.4	<del>87.3#</del> 247#	0.00	(1)
18	P Carbon Disulfide	1.344	1.342	0.1	109	0.00	
19	Acetonitrile	0.057	0.049	14.0	97	0.00	
20	Allyl Chloride	0.222	0.265	-19.4	127	0.00	
21	P Methyl Acetate	0.586	0.538	8.2	105	0.00	
22	P Methylene Chloride	0.525	0.519	1.1	111	0.00	
23	TBA	0.108	0.071	34.3#	72	0.00	NT
24	Acrylonitrile	0.282	0.269	4.6	105	0.00	
25	P Methyl-t-Butyl Ether	1.757	1.685	4.1	107	0.00	
26	P trans-1,2-Dichloroethene	0.495	0.491	0.8	109	0.00	
27	P 1,1-Dicethane	0.916	0.956	-4.4	116	0.00	
28	Vinyl Acetate	0.128	0.126	5.5	<del>1.6</del> 100	0.00	
29	DIPE	1.761	1.922	-9.1	121	0.00	
30	2-Chloro-1,3-Butadiene	0.797	0.899	-12.8	123	0.00	
31	ETBE	1.746	1.719	1.5	109	0.00	
32	2,2-Dichloropropane	0.805	0.752	6.6	102	0.00	
33	P cis-1,2-Dichloroethene	0.589	0.567	3.7	109	0.00	
34	P 2-Butanone	0.408	0.376	7.8	104	0.00	
35	Propionitrile	0.124	0.107	13.7	96	0.00	
36	Bromochloromethane	0.358	0.350	2.2	109	0.00	
37	Methacrylonitrile	0.295	0.257	12.9	97	0.00	
38	Tetrahydrofuran	0.257	0.219	14.8	99	0.00	
39	P Chloroform	0.933	0.918	1.6	111	0.00	
40	P 1,1,1-Trichloroethane	0.829	0.775	6.5	102	0.00	
41	TAME	1.736	1.622	6.6	104	0.00	
42	i 1,4-Difluorobenzene	1.000	1.000	0.0	119	0.00	
43	P Cyclohexane	0.352	0.378	-7.4	121	0.00	
44	s surr4,Dibrflmethane	0.332	0.318	4.2	115	0.00	
45	P Carbontetrachloride	0.477	0.413	13.4	97	0.00	
46	1,1-Dichloropropene	0.489	0.467	4.5	112	0.00	
47	s surr1,1,2-dichloroethane-d4	0.405	0.416	-2.7	123	0.00	
48	P Benzene	1.376	1.325	3.7	113	0.00	
49	P 1,2-Dichloroethane	0.546	0.519	4.9	112	0.00	
50	Iso-Butyl Alcohol	0.032	0.020	37.5#	72	0.00	(2)
51	n-Heptane	0.447	0.452	-1.1	119	0.00	

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5385.D  
 Acq On : 8 Mar 2018 11:46 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 12:18:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
52	1-Butanol	0.020	0.012	40.0#	70	0.00	NT
53 P	Trichloroethene	0.382	0.335	12.3	103	0.00	
54 P	Methylcyclohexane	0.460	0.484	-5.2	118	0.00	
55 P	1,2-Diclp propane	0.371	0.367	1.1	116	0.00	
56	Dibromomethane	0.251	0.228	9.2	108	0.00	
57	1,4-Dioxane	0.008	0.006	25.0#	78	0.00	(3)
58	Methyl Methacrylate	0.343	0.284	17.2	97	0.00	
59 P	Bromodichloromethane	0.481	0.444	7.7	105	0.00	
60	2-Nitropropane	0.138	0.094	31.9#	76	0.00	NT
61	2-Chloroethylvinyl Ether	0.149	0.203	-36.2#	143	0.00	NT
62 P	cis-1,3-Dichloropropene	0.606	0.574	5.3	107	0.00	
63 P	4-Methyl-2-pentanone	0.506	0.445	12.1	104	0.00	
64 s	SURR3,Toluene-d8	1.248	1.239	0.7	119	0.00	
65 P	Toluene	1.518	1.385	8.8	107	0.00	
66 P	trans-1,3-Dichloropropene	0.575	0.519	9.7	103	0.00	
67	Ethyl Methacrylate	0.581	0.502	13.6	98	0.00	
68 P	1,1,2-Trichloroethane	0.361	0.322	10.8	105	0.00	
69 s	SURR2,BFB	0.502	0.477	5.0	114	0.00	
70 i	d5-Chlorobenzene	1.000	1.000	0.0	118	0.00	
71 P	Tetrachloroethene	0.348	0.298	14.4	99	0.00	
72 P	2-Hexanone	0.437	0.387	11.4	102	0.00	
73	1,3-Dichloropropene	0.706	0.663	6.1	109	0.00	
74 P	Dibromochloromethane	0.447	0.384	14.1	96	0.00	
75	N-Butyl Acetate	0.892	0.801	10.2	103	0.00	
76 P	1,2-Dibromoethane	0.426	0.380	10.8	101	0.00	
77	3-Chlorobenzotrifluoride	0.678	0.582	14.2	102	0.00	
78 P	Chlorobenzene	1.143	1.022	10.6	104	0.00	
79	4-Chlorobenzotrifluoride	0.619	0.514	17.0	100	0.00	
80	1,1,1,2-Tetrachloroethane	0.416	0.354	14.9	96	0.00	
81 P	Ethylbenzene	0.602	0.539	10.5	103	0.00	
82 P	(m+p)Xylene	0.750	0.678	9.6	103	0.00	
83 P	o-Xylene	0.735	0.670	8.8	103	0.00	
84 P	Styrene	1.263	1.146	9.3	103	0.00	
85 P	Bromoform	0.327	0.243	25.7#	84	0.00	(4)
86	2-Chlorobenzotrifluoride	0.663	0.555	16.3	98	0.00	
87 P	Isopropylbenzene	1.937	1.758	9.2	103	0.00	
88	Cyclohexanone	0.107	0.101	5.6	106	0.00	
89	trans-1,4-Dichloro-2-Butene	0.168	0.142	15.5	98	0.00	
90 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00	
91 P	1,1,2,2-Tetrachloroethane	1.126	0.976	13.3	93	0.00	
92	Bromobenzene	0.908	0.803	11.6	96	0.00	
93	1,2,3-Trichloropropene	0.375	0.310	17.3	91	0.00	
94	n-Propylbenzene	3.950	3.867	2.1	106	0.00	
95	2-Chlorotoluene	2.390	2.285	4.4	106	0.00	
96	3-Chlorotoluene	2.578	2.522	2.2	110	0.00	
97	4-Chlorotoluene	2.804	2.692	4.0	105	0.00	
98	1,3,5-Trimethylbenzene	2.860	2.714	5.1	102	0.00	
99	tert-Butylbenzene	2.542	2.282	10.2	97	0.00	
100	1,2,4-Trimethylbenzene	2.923	2.737	6.4	101	0.00	
101	3,4-Dichlorobenzotrifluorid	0.987	0.843	14.6	95	0.00	

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5385.D  
 Acq On : 8 Mar 2018 11:46 am  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 12:18:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
102	sec-Butylbenzene	3.635	3.359	7.6	99	0.00	
103	p-Isopropyltoluene	3.140	2.803	10.7	96	0.00	
104 P	1,3-Dclbenz	1.722	1.544	10.3	99	0.00	
105 P	1,4-Dclbenz	1.788	1.566	12.4	98	0.00	
106	2,4-Dichlorobenzotrifluorid	0.897	0.758	15.5	97	0.00	
107	2,5-Dichlorobenzotrifluorid	1.008	0.860	14.7	96	0.00	
108	n-Butylbenzene	2.791	2.625	5.9	101	0.00	
109 P	1,2-Dclbenz	1.705	1.509	11.5	96	0.00	
110 P	1,2-Dibromo-3-chloropropane	0.308	0.200	35.1#	69	0.00	(5)
111	Trielution Dichlorotoluene	1.573	1.406	10.6	100	0.00	
112	1,3,5-Trichlorobenzene	1.337	1.126	15.8	95	0.00	
113	Coelution Dichlorotoluene	1.710	1.538	10.1	100	0.00	
114 P	1,2,4-Tcbenzene	1.282	1.039	19.0	89	0.00	
115	Hexachlorobt	0.583	0.393	32.6#	75	0.00	NT
116	Naphthalen	3.853	3.082	20.0#	85	0.00	(6)
117	1,2,3-Tclbenzene	1.270	1.004	20.9#	88	0.00	(7)
118	2,4,5-Trichlorotoluene	0.948	0.755	20.4#	90	0.00	NT
119	2,3,6-Trichlorotoluene	0.871	0.692	20.6#	90	0.00	NT

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5385.D  
 Acq On : 8 Mar 2018 11:46 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 12:18:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	286676	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.937	114	442219	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	388587	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	204748	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) surr4,Dibrflmethane	4.535	113	140674	47.98	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	95.96%			
47) surr1,1,2-dichloroetha...	5.120	65	183781	51.36	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	102.72%			
64) SURR3,Toluene-d8	7.949	98	548009	49.65	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	99.30%			
69) SURR2,BFB	10.729	95	210798	47.52	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	95.04%			
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	180342	46.36	ug/L		99
3) Chloromethane	1.158	50	203645	45.54	ug/L		100
4) Vinyl Chloride	1.218	62	179830	49.43	ug/L		99
5) Bromomethane	1.407	94	100052m	48.23	ug/L		
6) Chloroethane	1.475	64	107519	51.71	ug/L		100
7) Freon 21	1.603	67	289231	51.94	ug/L		99
8) Trichlorofluoromethane	1.645	101	201126	48.48	ug/L		99
9) Diethyl Ether	1.846	59	138973	52.68	ug/L		97
10) Freon 123a	1.846	67	193769	56.75	ug/L		89
11) Freon 123	1.889	83	212596	54.41	ug/L		99
12) Acrolein	1.926	56	190352	236.86	ug/L		100
13) 1,1-Diclcethene	2.005	96	128676	48.81	ug/L		93
14) Freon 113	2.011	101	134844	52.12	ug/L		91
15) Acetone	2.042	43	77974	41.27	ug/L		97
16) 2-Propanol	2.157	45	266148	725.47	ug/L		98
17) Iodomethane	2.115	142	219483	86.69	ug/L		98
18) Carbon Disulfide	2.170	76	384586	49.92	ug/L		98
19) Acetonitrile	2.249	40	70139	214.69	ug/L		97
20) Allyl Chloride	2.291	76	76073	59.78	ug/L		90
21) Methyl Acetate	2.310	43	154350	45.94	ug/L		98
22) Methylene Chloride	2.389	84	148676	49.39	ug/L		95
23) TBA	2.499	59	409934	662.32	ug/L		95
24) Acrylonitrile	2.602	53	385813	238.82	ug/L		98
25) Methyl-t-Butyl Ether	2.651	73	483170	47.98	ug/L		100
26) trans-1,2-Dichloroethene	2.639	96	140725	49.58	ug/L		91
27) 1,1-Diclcethane	3.066	63	274145	52.22	ug/L		99
28) Vinyl Acetate	3.145	86	36044	47.27	ug/L	#	79
29) DIPE	3.182	45	551132	54.58	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.175	53	257852	56.45	ug/L		96
31) ETBE	3.633	59	492787	49.23	ug/L		98
32) 2,2-Dichloropropane	3.779	77	215681	46.71	ug/L		99
33) cis-1,2-Dichloroethene	3.785	96	162588	48.11	ug/L		94
34) 2-Butanone	3.822	43	107826	46.10	ug/L		98
35) Propionitrile	3.883	54	153345	215.85	ug/L		97
36) Bromochloromethane	4.120	130	100367	48.89	ug/L	#	83
37) Methacrylonitrile	4.120	67	73789	43.70	ug/L		92
38) Tetrahydrofuran	4.206	42	62684	42.61	ug/L		95
39) Chloroform	4.273	83	263302	49.24	ug/L		99
40) 1,1,1-Trichloroethane	4.547	97	222173	46.75	ug/L		95



Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5385.D  
 Acq On : 8 Mar 2018 11:46 am  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 08 12:18:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	465119	46.73	ug/L	97
43) Cyclohexane	4.645	41	167200	53.70	ug/L	94
45) Carbontetrachloride	4.840	117	182429	43.26	ug/L	100
46) 1,1-Dichloropropene	4.852	75	206317	47.73	ug/L	96
48) Benzene	5.218	78	585798	48.12	ug/L	99
49) 1,2-Dichloroethane	5.260	62	229683	47.53	ug/L	96
50) Iso-Butyl Alcohol	5.254	43	180886	631.55	ug/L	99
51) n-Heptane	5.803	43	199924	50.52	ug/L	97
52) 1-Butanol	6.370	56	270507	1564.72	ug/L	96
53) Trichloroethene	6.303	130	148107	43.79	ug/L	96
54) Methylcyclohexane	6.571	55	214238	52.67	ug/L	93
55) 1,2-Diclpropane	6.608	63	162190	49.38	ug/L	98
56) Dibromomethane	6.766	93	101039	45.54	ug/L	91
57) 1,4-Dioxane	6.845	88	48790	657.73	ug/L	95
58) Methyl Methacrylate	6.888	69	125678	41.40	ug/L	95
59) Bromodichloromethane	7.028	83	196206	46.17	ug/L	99
60) 2-Nitropropane	7.339	41	83074	67.84	ug/L	93
61) 2-Chloroethylvinyl Ether	7.492	63	89738	68.25	ug/L	95
62) cis-1,3-Dichloropropene	7.632	75	253768	47.31	ug/L	99
63) 4-Methyl-2-pentanone	7.864	43	196913	44.00	ug/L	97
65) Toluene	8.028	91	612432	45.62	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	229724	45.18	ug/L	97
67) Ethyl Methacrylate	8.510	69	221869	43.18	ug/L	96
68) 1,1,2-Trichloroethane	8.528	97	142220	44.51	ug/L	96
71) Tetrachloroethene	8.674	164	115841	42.80	ug/L	99
72) 2-Hexanone	8.869	43	150482	44.36	ug/L	98
73) 1,3-Dichloropropane	8.717	76	257635	46.95	ug/L	97
74) Dibromochloromethane	8.967	129	149057	42.90	ug/L	100
75) N-Butyl Acetate	9.058	43	311424	44.94	ug/L	96
76) 1,2-Dibromoethane	9.065	107	147497	44.58	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	226084	42.92	ug/L	98
78) Chlorobenzene	9.613	112	397057	44.71	ug/L	98
79) 4-Chlorobenzotrifluoride	9.717	180	199800	41.56	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.711	131	137408	42.45	ug/L	99
81) Ethylbenzene	9.753	106	209592	44.79	ug/L	95
82) (m+p)Xylene	9.875	106	526549	90.30	ug/L	95
83) o-Xylene	10.253	106	260225	45.58	ug/L	96
84) Styrene	10.265	104	445420	45.36	ug/L	98
85) Bromoform	10.418	173	94614	37.23	ug/L	97
86) 2-Chlorobenzotrifluoride	10.522	180	215669	41.88	ug/L	99
87) Isopropylbenzene	10.613	105	683180	45.39	ug/L	99
88) Cyclohexanone	10.662	55	788489	949.66	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	55321	42.34	ug/L	86
91) 1,1,2,2-Tetrachloroethane	10.887	83	199797	43.35	ug/L	100
92) Bromobenzene	10.851	156	164427	44.21	ug/L	91
93) 1,2,3-Trichloropropane	10.906	110	63436	41.32	ug/L	92
94) n-Propylbenzene	10.985	91	791732	48.94	ug/L	99
95) 2-Chlorotoluene	11.040	91	467930	47.81	ug/L	99
96) 3-Chlorotoluene	11.095	91	516432	48.92	ug/L	98
97) 4-Chlorotoluene	11.137	91	551091	47.99	ug/L	98
98) 1,3,5-Trimethylbenzene	11.149	105	555641	47.45	ug/L	99
99) tert-Butylbenzene	11.424	119	467278	44.88	ug/L	100
100) 1,2,4-Trimethylbenzene	11.466	105	560414	46.82	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.540	214	172550	42.69	ug/L	98
102) sec-Butylbenzene	11.613	105	687723	46.21	ug/L	98
103) p-Isopropyltoluene	11.741	119	573964	44.63	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
 Data File : C5385.D  
 Acq On : 8 Mar 2018 11:46 am  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 12:18:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	316206	44.84	ug/L	99
105) 1,4-Dclbenz	11.765	146	320666	43.79	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	155103	42.23	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.875	214	176098	42.67	ug/L	98
108) n-Butylbenzene	12.082	91	537385	47.02	ug/L	100
109) 1,2-Dclbenz	12.070	146	309044	44.26	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.704	157	41031	32.57	ug/L	93
111) Trielution Dichlorotol...	12.832	125	863930	134.12	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	230607	42.13	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	629702	89.91	ug/L	98
114) 1,2,4-Tcbenzene	13.369	180	212802	40.55	ug/L	98
115) Hexachlorobt	13.515	225	80496	33.72	ug/L	98
116) Naphthalen	13.551	128	631095	40.00	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	205593	39.53	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	154621	39.81	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	141787	39.76	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

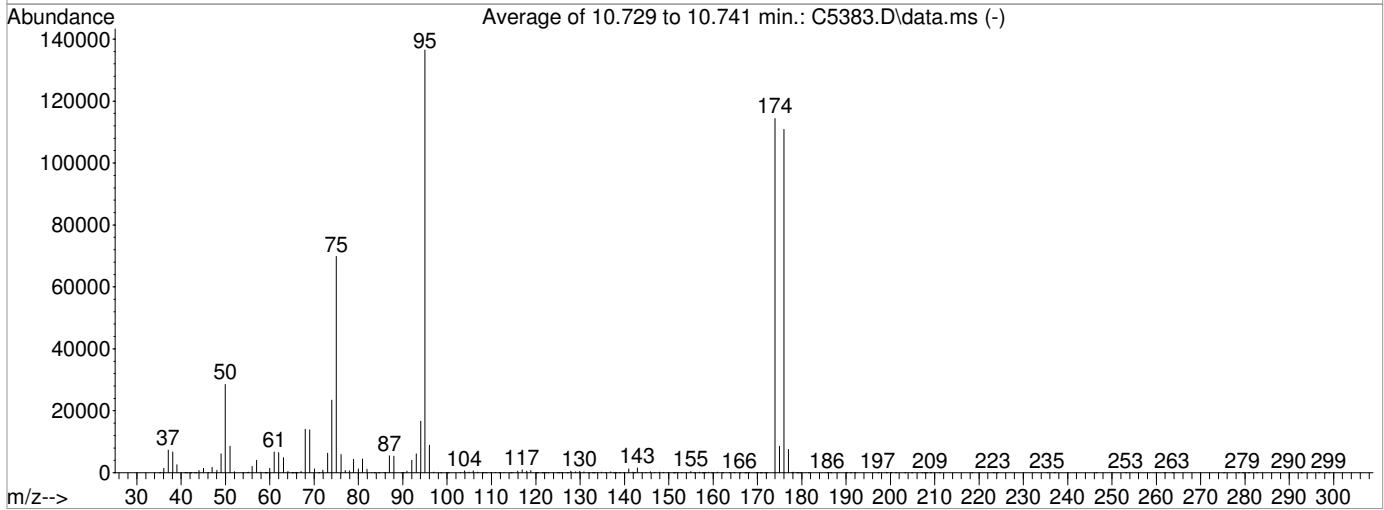
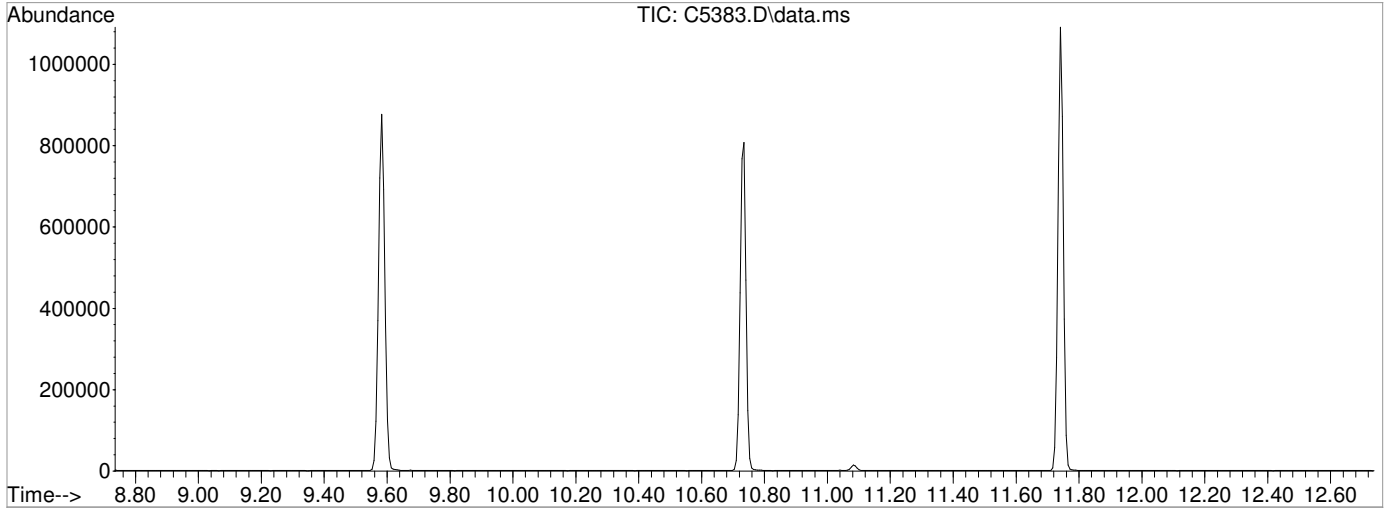


Data Path : I:\ACQUDATA\MSVOA14\Data\030818\  
Data File : C5383.D  
Acq On : 8 Mar 2018 10:36 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Title : MS#14 - 8260 WATERS 5mL Purge  
Last Update : Tue Jan 23 16:52:42 2018



AutoFind: Scans 1598, 1599, 1600; Background Corrected with Scan 1591

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	28549	PASS
75	95	30	60	51.2	69816	PASS
95	95	100	100	100.0	136475	PASS
96	95	5	9	6.5	8900	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.8	114411	PASS
175	174	5	9	7.5	8550	PASS
176	174	95	101	96.9	110907	PASS
177	176	5	9	6.8	7525	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	250109	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	366226	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	329793	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	181483	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) surr4,Dibrflmethane	4.535	113	118069	48.62	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	97.24%			
47) surr1,1,2-dichloroetha...	5.120	65	144832	48.87	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	97.74%			
64) SURR3,Toluene-d8	7.949	98	448746	49.10	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.20%			
69) SURR2,BFB	10.735	95	180037	49.01	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.02%			
<b>Target Compounds</b>							
							<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	154152	45.42	ug/L		99
3) Chloromethane	1.151	50	181394	46.49	ug/L		98
4) Vinyl Chloride	1.212	62	162267	51.12	ug/L		100
5) Bromomethane	1.401	94	80237	43.77	ug/L		97
6) Chloroethane	1.474	64	96177	53.01	ug/L		98
7) Freon 21	1.603	67	251015	51.67	ug/L		98
8) Trichlorofluoromethane	1.645	101	196521	54.29	ug/L		99
9) Diethyl Ether	1.846	59	117493	51.05	ug/L		99
10) Freon 123a	1.846	67	165728	55.64	ug/L		100
11) Freon 123	1.889	83	182777	53.62	ug/L		98
12) Acrolein	1.932	56	63481	90.54	ug/L		96
13) 1,1-Diclcethene	2.005	96	115509	50.22	ug/L		100
14) Freon 113	2.011	101	115496	51.17	ug/L		99
15) Acetone	2.048	43	83056	50.39	ug/L		98
16) 2-Propanol	2.163	45	319114	997.02	ug/L		100
17) Iodomethane	2.121	142	107151	55.60	ug/L		99
18) Carbon Disulfide	2.169	76	347316	51.68	ug/L		99
19) Acetonitrile	2.255	40	72858	255.62	ug/L		99
20) Allyl Chloride	2.291	76	68706	61.89	ug/L		97
21) Methyl Acetate	2.310	43	140335	47.87	ug/L		100
22) Methylene Chloride	2.389	84	128845	49.06	ug/L		98
23) TBA	2.511	59	528275	978.31	ug/L		99
24) Acrylonitrile	2.602	53	359117	254.80	ug/L		98
25) Methyl-t-Butyl Ether	2.657	73	436111	49.63	ug/L		99
26) trans-1,2-Dichloroethene	2.645	96	126960	51.27	ug/L		100
27) 1,1-Diclcethane	3.066	63	233699	51.03	ug/L		98
28) Vinyl Acetate	3.145	86	30768	46.31	ug/L		99
29) DIPE	3.181	45	409637	46.50	ug/L		99
30) 2-Chloro-1,3-Butadiene	3.175	53	213305	53.53	ug/L		99
31) ETBE	3.639	59	407615	46.67	ug/L		98
32) 2,2-Dichloropropane	3.779	77	196895	48.88	ug/L		99
33) cis-1,2-Dichloroethene	3.785	96	146219	49.59	ug/L		99
34) 2-Butanone	3.828	43	104467	51.20	ug/L		98
35) Propionitrile	3.889	54	152919	246.72	ug/L		98
36) Bromochloromethane	4.120	130	88922	49.65	ug/L		95
37) Methacrylonitrile	4.120	67	74294	50.43	ug/L		99
38) Tetrahydrofuran	4.212	42	61437	47.86	ug/L		99
39) Chloroform	4.279	83	237321	50.87	ug/L		99
40) 1,1,1-Trichloroethane	4.553	97	211709	51.06	ug/L		97

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	409445	47.15	ug/L	99
43) Cyclohexane	4.645	41	125653	48.73	ug/L	99
45) Carbontetrachloride	4.846	117	177658	50.88	ug/L	97
46) 1,1-Dichloropropene	4.852	75	180521	50.43	ug/L	97
48) Benzene	5.224	78	509766	50.57	ug/L	100
49) 1,2-Dichloroethane	5.260	62	200453	50.08	ug/L	99
50) Iso-Butyl Alcohol	5.266	43	231428	975.68	ug/L	100
51) n-Heptane	5.803	43	161623	49.32	ug/L	97
52) 1-Butanol	6.376	56	372300	2600.40	ug/L	99
53) Trichloroethene	6.303	130	143454	51.21	ug/L	98
54) Methylcyclohexane	6.571	55	166436	49.41	ug/L	99
55) 1,2-Diclpropane	6.614	63	138100	50.77	ug/L	97
56) Dibromomethane	6.766	93	91752	49.94	ug/L	99
57) 1,4-Dioxane	6.851	88	59305	965.38	ug/L	97
58) Methyl Methacrylate	6.894	69	126465	50.30	ug/L	99
59) Bromodichloromethane	7.028	83	183695	52.19	ug/L	99
60) 2-Nitropropane	7.339	41	103419	101.97	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	61079	56.10	ug/L	98
62) cis-1,3-Dichloropropene	8.333	75	217574	51.67	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	185404	50.02	ug/L	97
65) Toluene	8.034	91	555990	50.01	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	217574	51.67	ug/L	98
67) Ethyl Methacrylate	8.510	69	220733	51.87	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	134050	50.65	ug/L	99
71) Tetrachloroethene	8.674	164	112425	48.94	ug/L	99
72) 2-Hexanone	8.875	43	144802	50.29	ug/L	99
73) 1,3-Dichloropropane	8.717	76	231549	49.72	ug/L	99
74) Dibromochloromethane	8.967	129	149260	50.62	ug/L	97
75) N-Butyl Acetate	9.058	43	298133	50.69	ug/L	99
76) 1,2-Dibromoethane	9.064	107	143400	51.07	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	193425	43.26	ug/L	100
78) Chlorobenzene	9.613	112	376046	49.90	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	174422	42.75	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	139927	50.94	ug/L	96
81) Ethylbenzene	9.753	106	198155	49.89	ug/L	99
82) (m+p)Xylene	9.875	106	491929	99.40	ug/L	99
83) o-Xylene	10.253	106	240655	49.67	ug/L	98
84) Styrene	10.265	104	418063	50.17	ug/L	98
85) Bromoform	10.418	173	108093	50.12	ug/L	97
86) 2-Chlorobenzotrifluoride	10.521	180	194213	44.43	ug/L	99
87) Isopropylbenzene	10.613	105	621531	48.65	ug/L	100
88) Cyclohexanone	10.662	55	682380	968.38	ug/L	100
89) trans-1,4-Dichloro-2-B...	10.936	53	63047	56.85	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.887	83	202886	49.66	ug/L	99
92) Bromobenzene	10.851	156	166397	50.47	ug/L	98
93) 1,2,3-Trichloropropane	10.912	110	67301	49.46	ug/L #	87
94) n-Propylbenzene	10.985	91	711065	49.59	ug/L	99
95) 2-Chlorotoluene	11.040	91	446021	51.42	ug/L	100
96) 3-Chlorotoluene	11.095	91	429840	45.94	ug/L	99
97) 4-Chlorotoluene	11.137	91	509405	50.04	ug/L	99
98) 1,3,5-Trimethylbenzene	11.149	105	529166	50.98	ug/L	99
99) tert-Butylbenzene	11.424	119	452000	48.98	ug/L	100
100) 1,2,4-Trimethylbenzene	11.466	105	538209	50.73	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	158653	44.28	ug/L	98
102) sec-Butylbenzene	11.613	105	661059	50.11	ug/L	99
103) p-Isopropyltoluene	11.741	119	576841	50.61	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	316295	50.61	ug/L	99
105) 1,4-Dclbenz	11.765	146	317394	48.90	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	142441	43.76	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	163750	44.77	ug/L	98
108) n-Butylbenzene	12.082	91	519356	51.26	ug/L	99
109) 1,2-Dclbenz	12.070	146	311687	50.36	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	53226	47.66	ug/L	98
111) Trielution Dichlorotol...	12.832	125	791385	138.60	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	219414	45.22	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	585730	94.35	ug/L	99
114) 1,2,4-Tcbenzene	13.368	180	230219	49.49	ug/L	99
115) Hexachlorobt	13.515	225	98209	46.42	ug/L	99
116) Naphthalen	13.557	128	732910	52.41	ug/L	99
117) 1,2,3-Tclbenzene	13.746	180	227232	49.29	ug/L	100
118) 2,4,5-Trichlorotoluene	14.338	159	159258	46.26	ug/L	100
119) 2,3,6-Trichlorotoluene	14.423	159	144240	45.63	ug/L	98

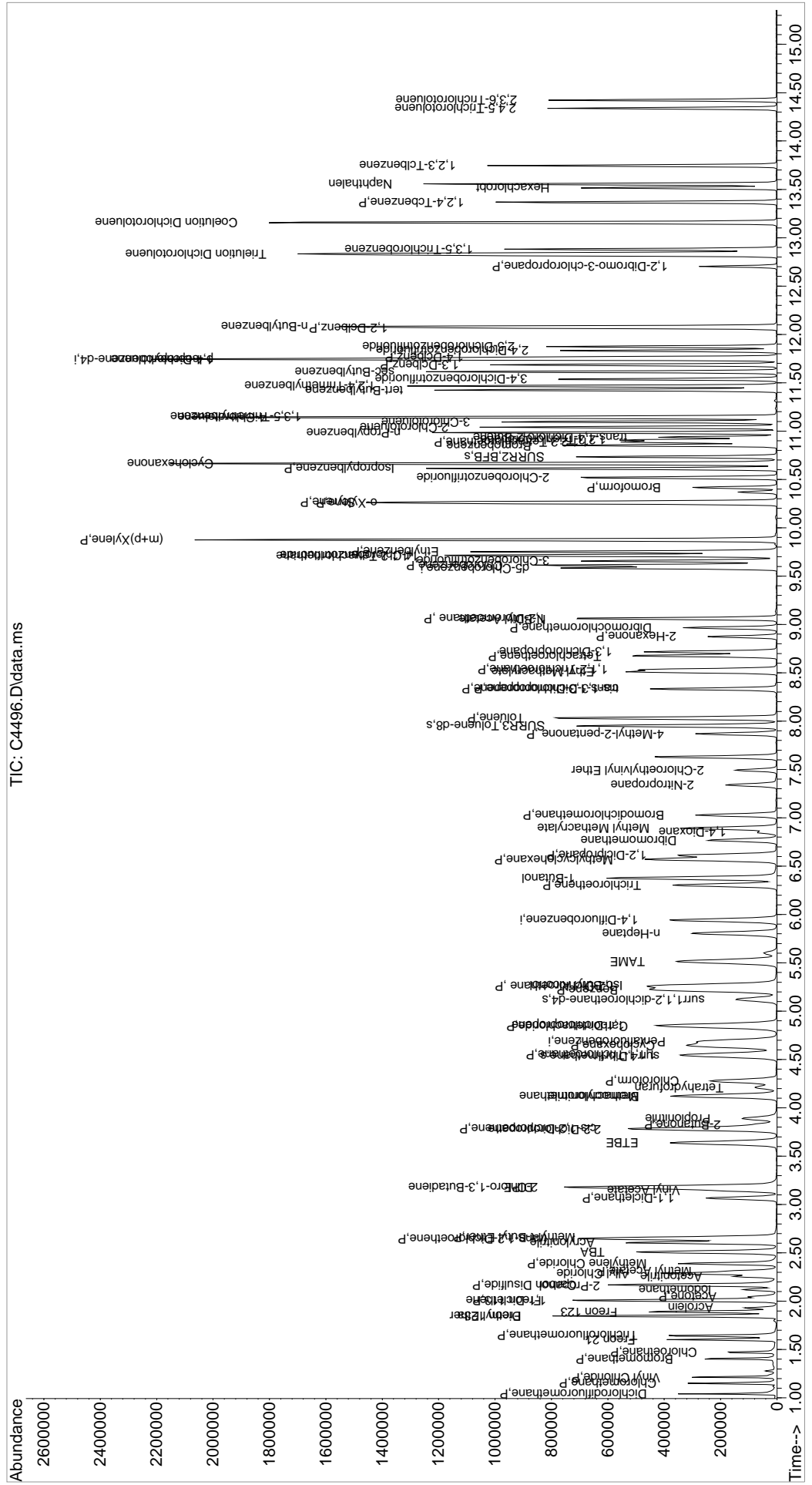
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

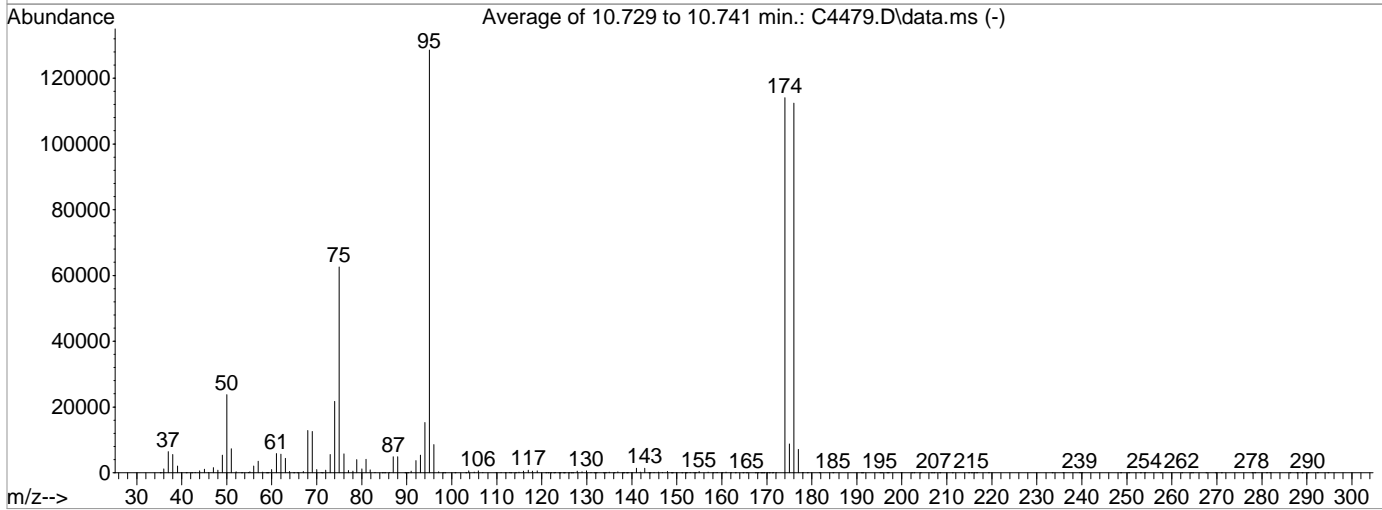
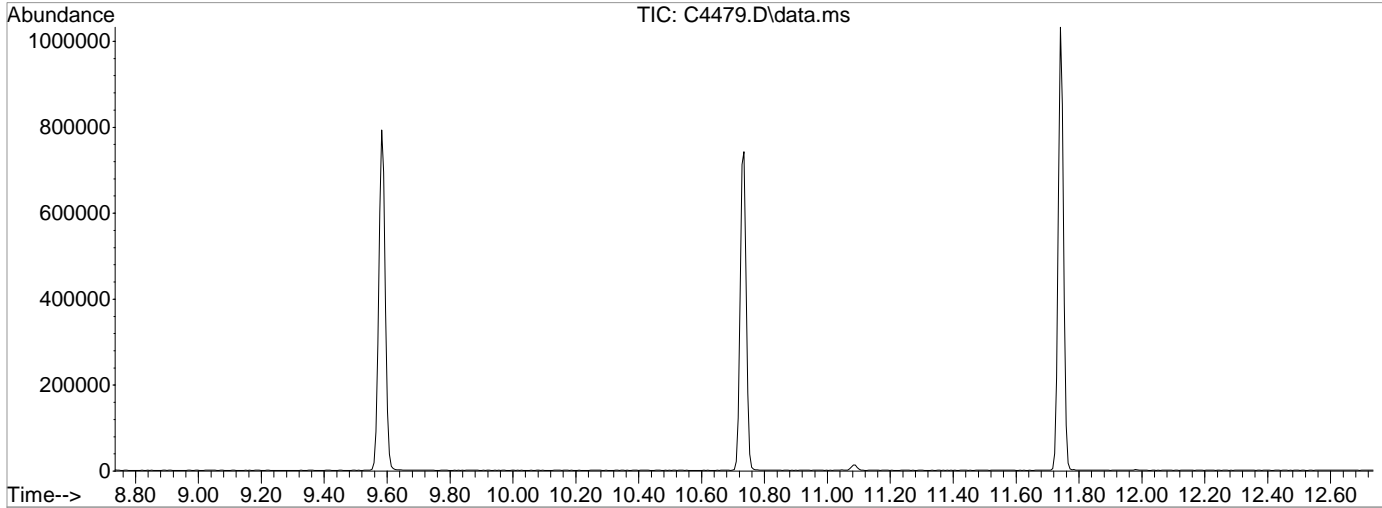




Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4479.D  
Acq On : 23 Jan 2018 10:35 am  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 1 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Title : MS#14 - 8260 WATERS 5mL Purge  
Last Update : Fri Dec 15 08:31:16 2017



AutoFind: Scans 1598, 1599, 1600; Background Corrected with Scan 1592

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	23766	PASS
75	95	30	60	48.7	62585	PASS
95	95	100	100	100.0	128560	PASS
96	95	5	9	6.7	8578	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.7	114064	PASS
175	174	5	9	7.7	8809	PASS
176	174	95	101	98.5	112387	PASS
177	176	5	9	6.3	7085	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4480.D  
 Acq On : 23 Jan 2018 11:05 am  
 Operator : F. NAEGLER  
 Sample : ICAL BLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 09:56:57 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	278746	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	407968	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	358247	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	196639	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	132267	48.90	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.80%	
47) surr1,1,2-dichloroetha...	5.120	65	164596	49.86	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.72%	
64) SURR3,Toluene-d8	7.949	98	499239	49.03	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.06%	
69) SURR2,BFB	10.735	95	204542	49.98	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.96%	
Target Compounds						
5) Bromomethane	1.407	94	508	Below Cal	Qvalue #	79

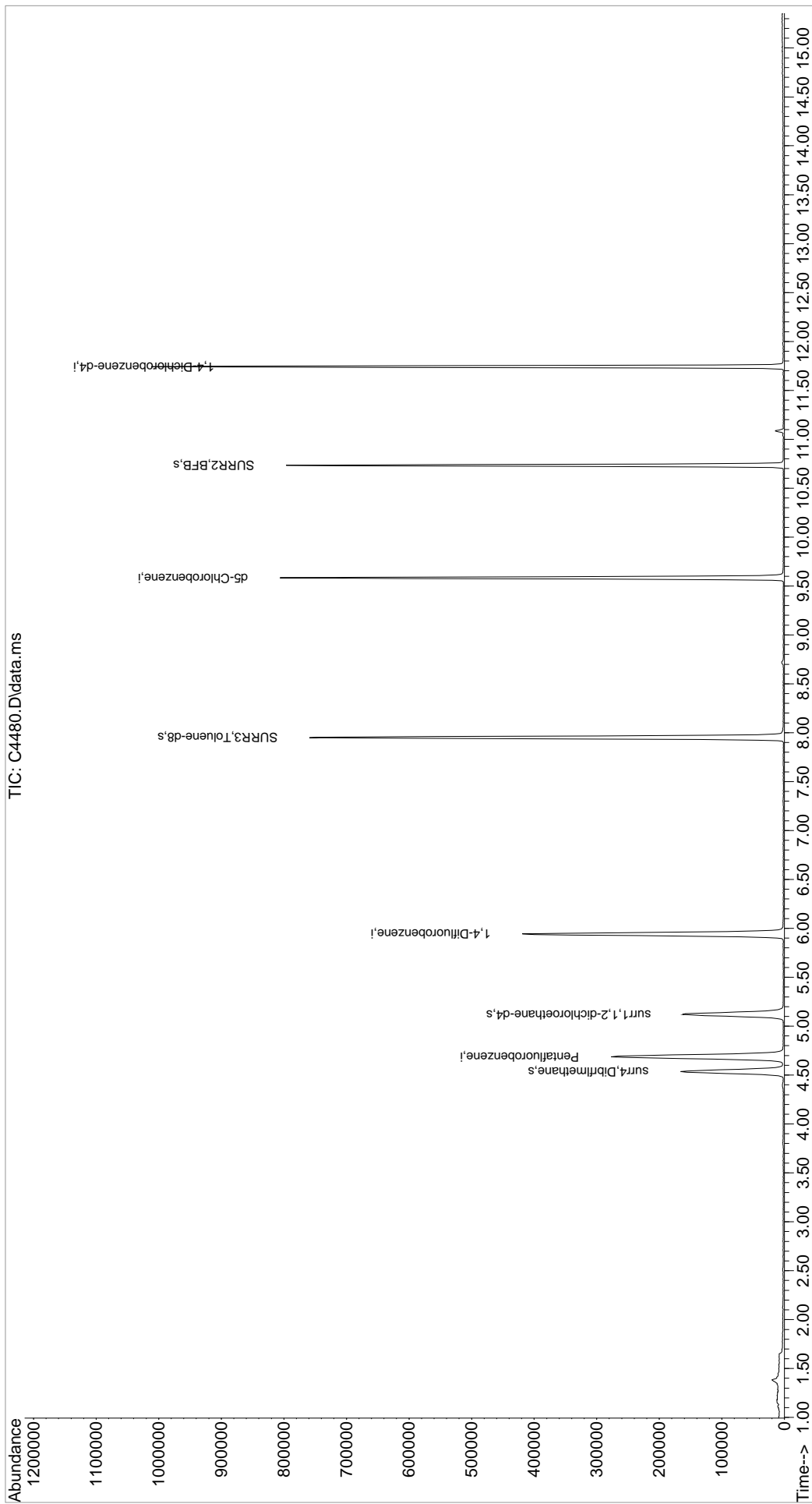
(#) = qualifier out of range (m) = manual integration (+) = signals summed

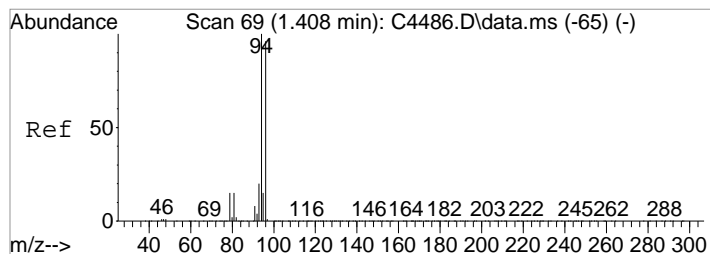
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4480.D  
Acq On : 23 Jan 2018 11:05 am  
Operator : F. NAEGLER  
Sample : ICAL BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

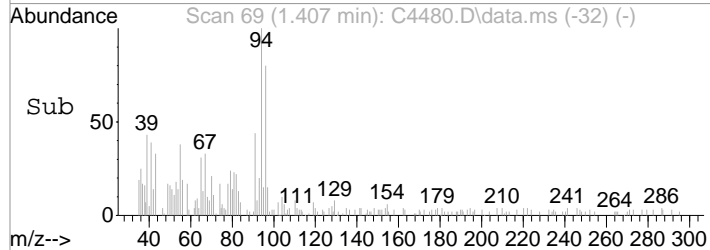
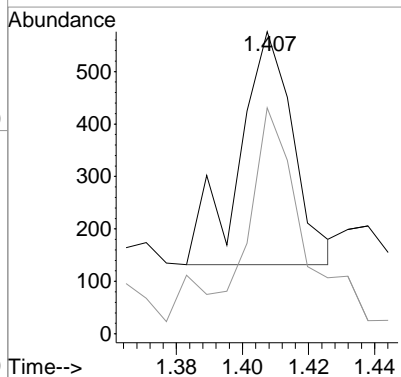
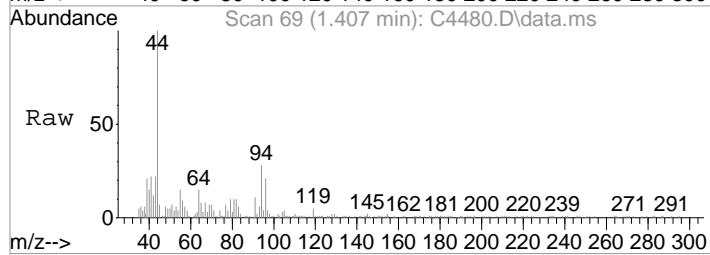
Quant Time: Jan 24 09:56:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





#5  
Bromomethane  
Concen: Below Cal  
RT: 1.407 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: C4480.D  
Acq: 23 Jan 2018 11:05 am

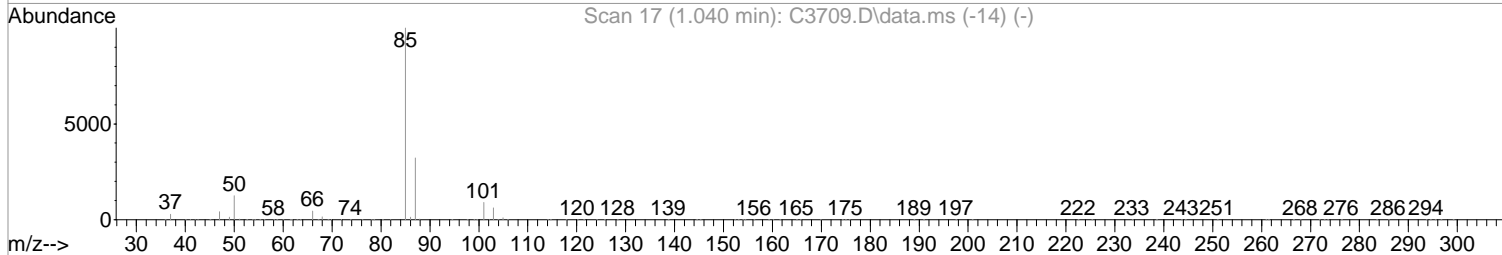
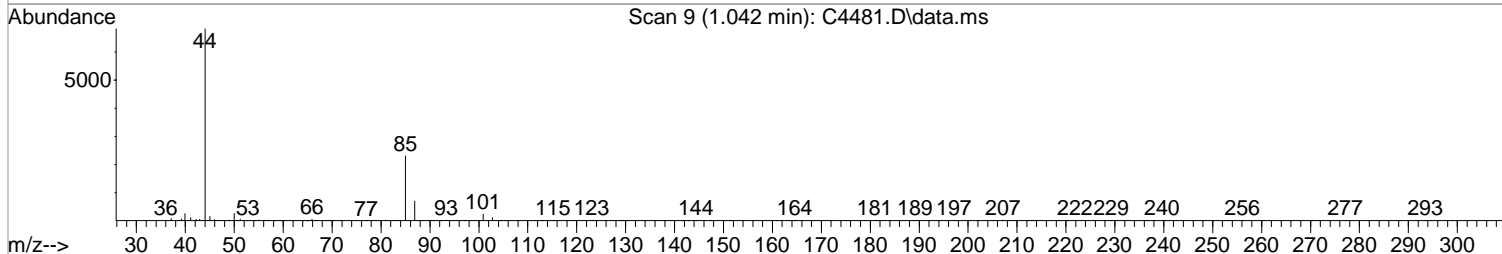
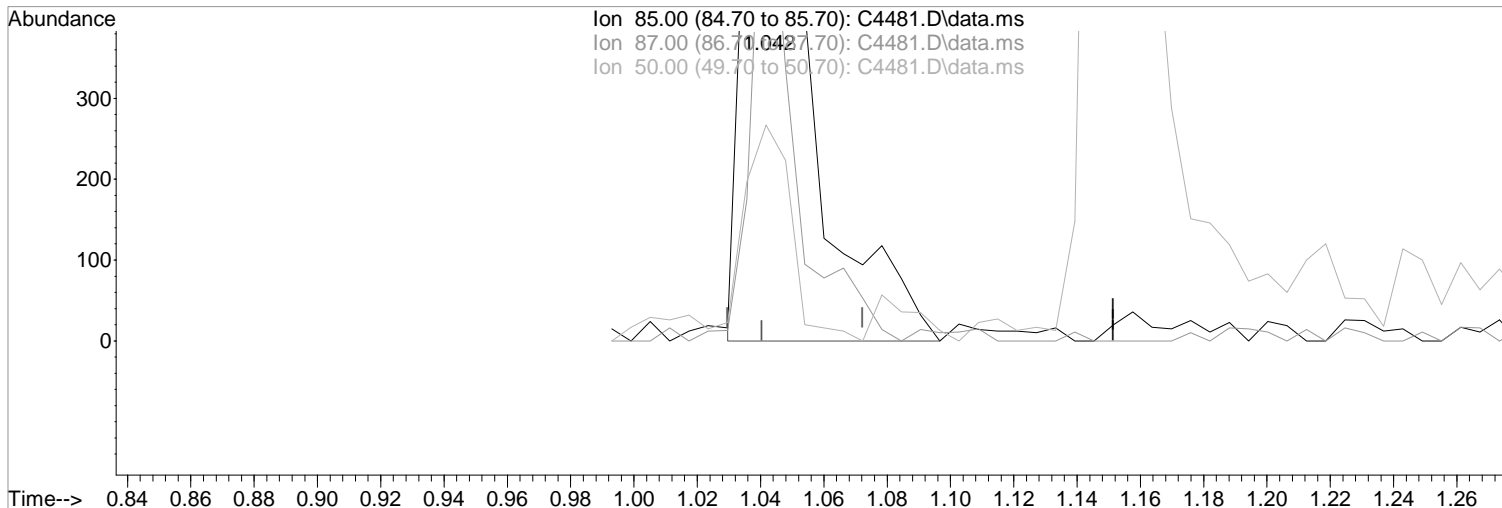
Tgt Ion: 94 Resp: 508  
Ion Ratio Lower Upper  
94 100  
96 74.8 75.8 115.8#



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



(2) Dichlorodifluoromethane (P)

1.042min (+0.001) 0.62 ug/L m  
response 1776

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.44
50.00	12.50	11.10
0.00	0.00	0.00

Manual Integration:

After

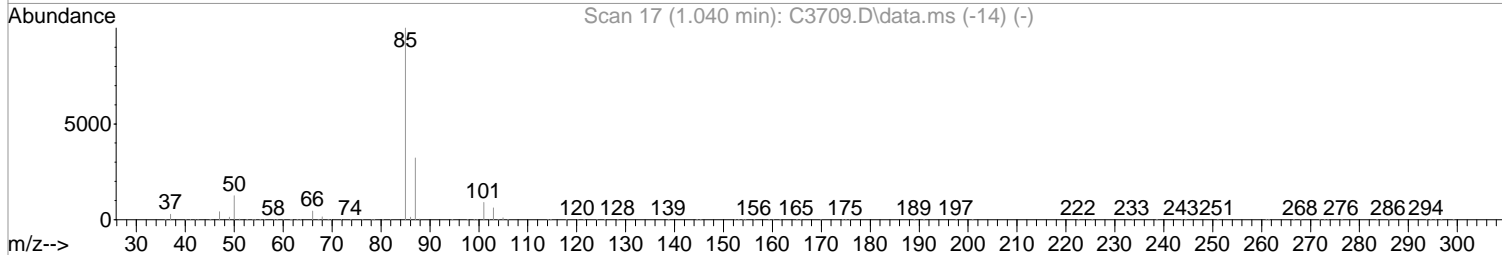
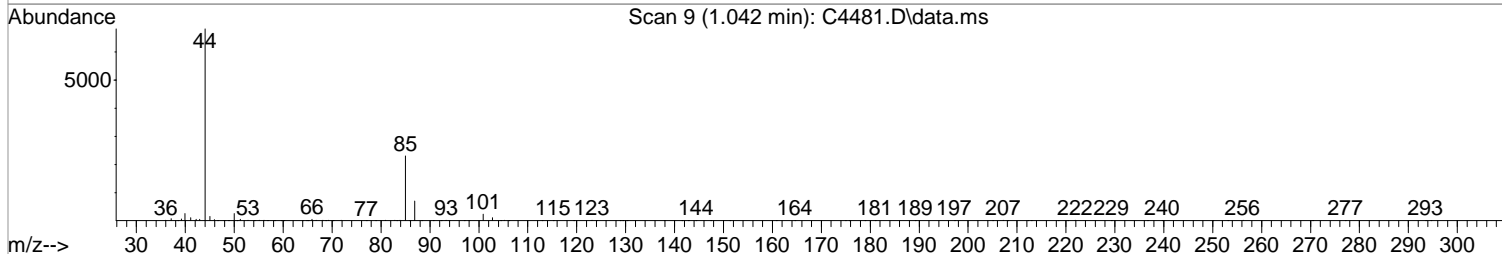
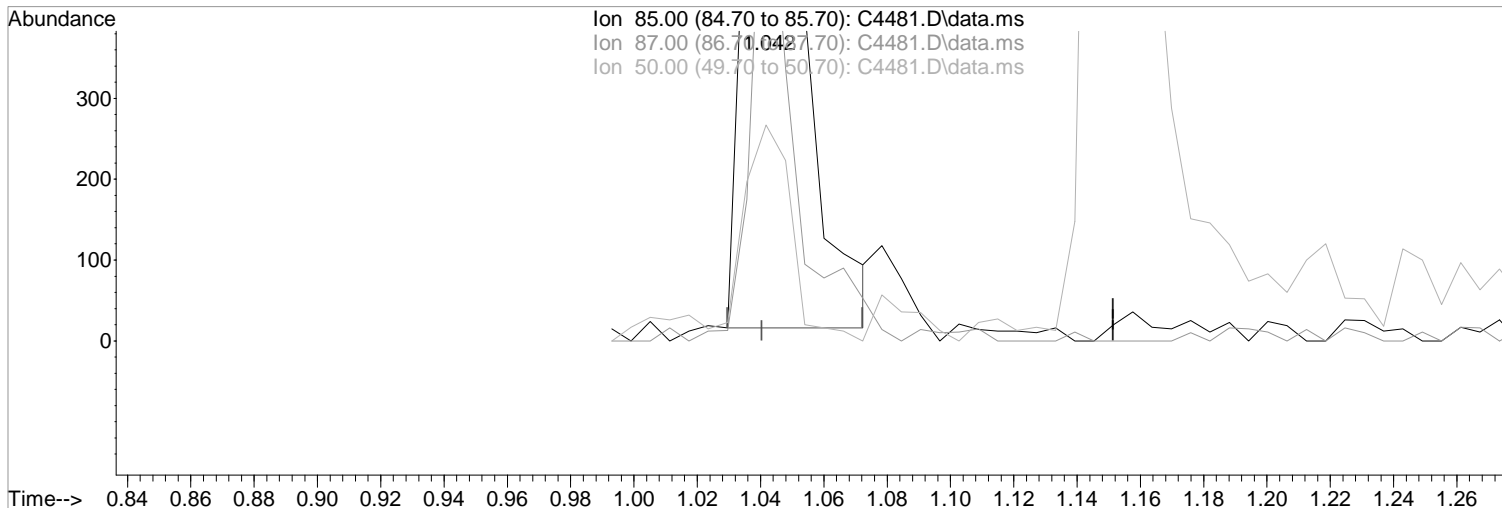
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(2) Dichlorodifluoromethane (P)

Manual Integration:

1.042min (+0.001) 0.58 ug/L

Before

response 1652

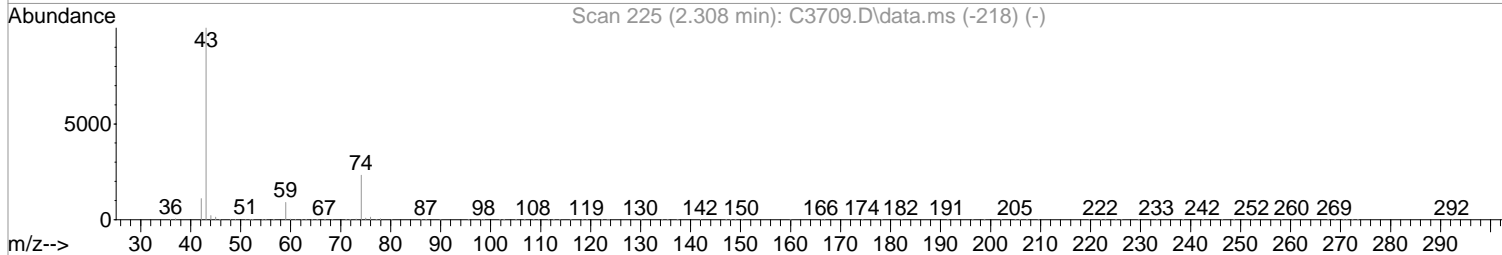
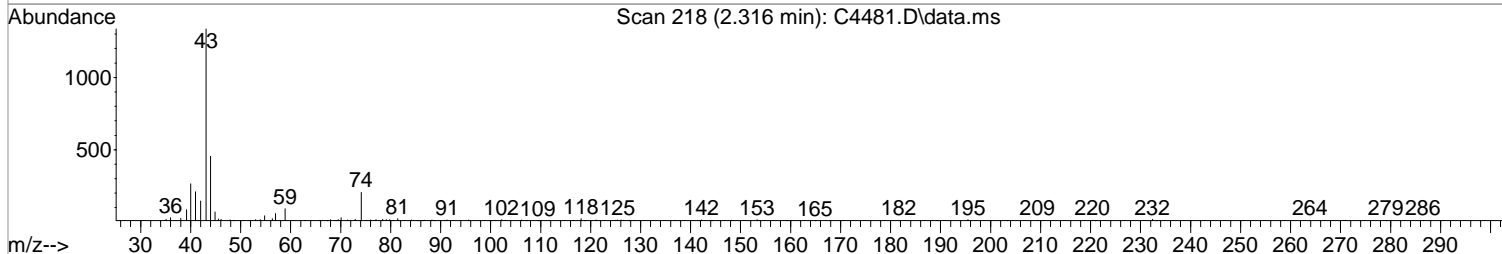
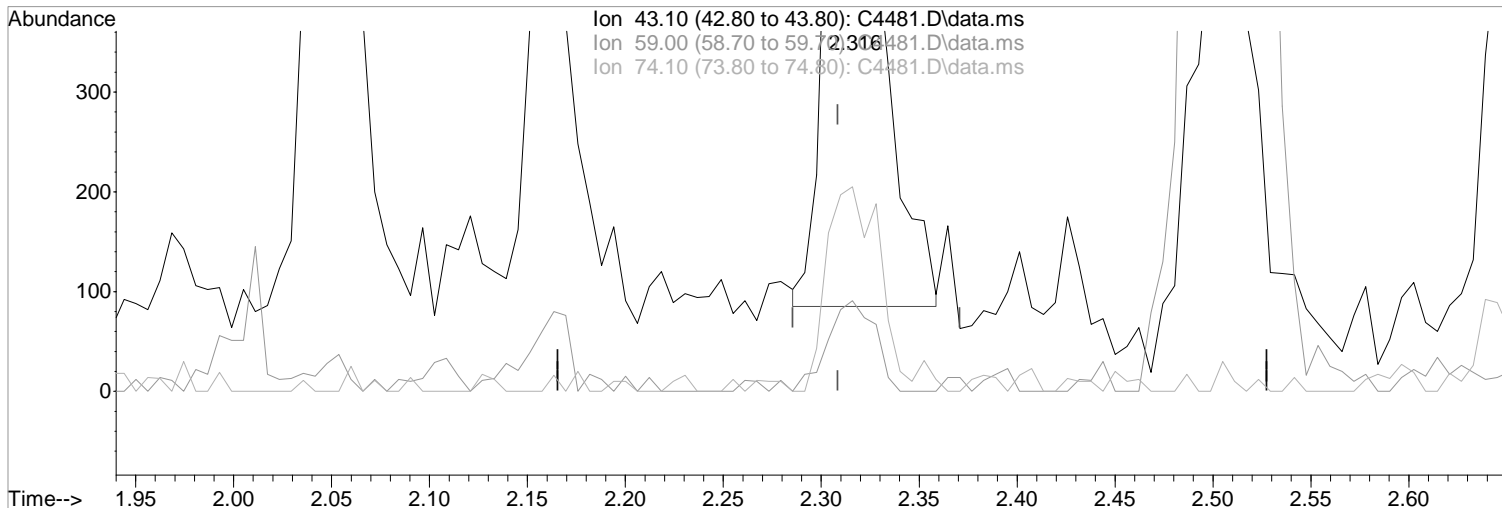
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.44
50.00	12.50	11.58
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration



TIC: C4481.D\data.ms

(21) Methyl Acetate (P)  
 2.316min (+0.007) 0.74 ug/L m  
 response 1772

Manual Integration:

After

Poor integration.

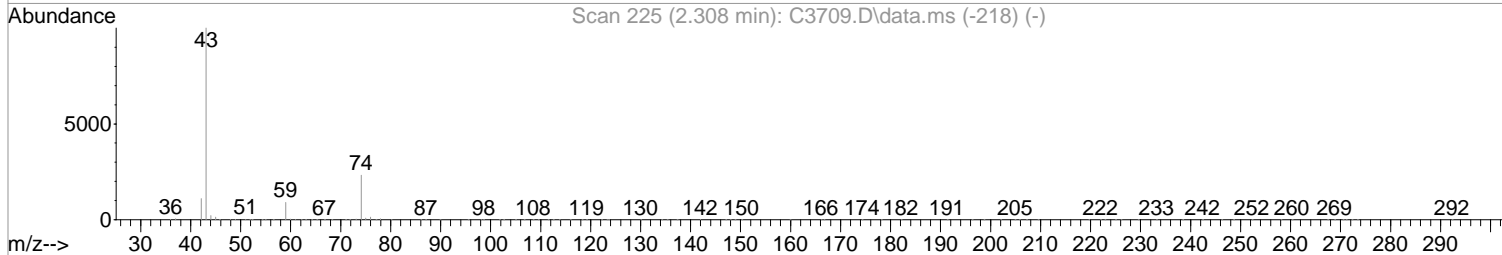
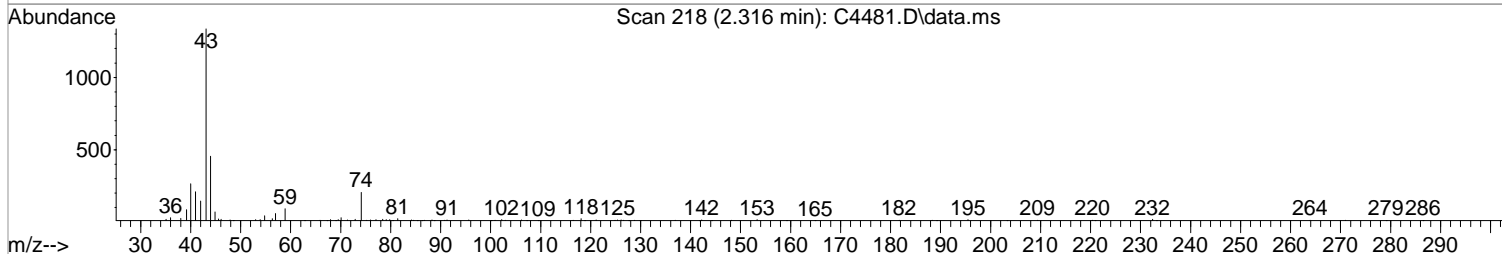
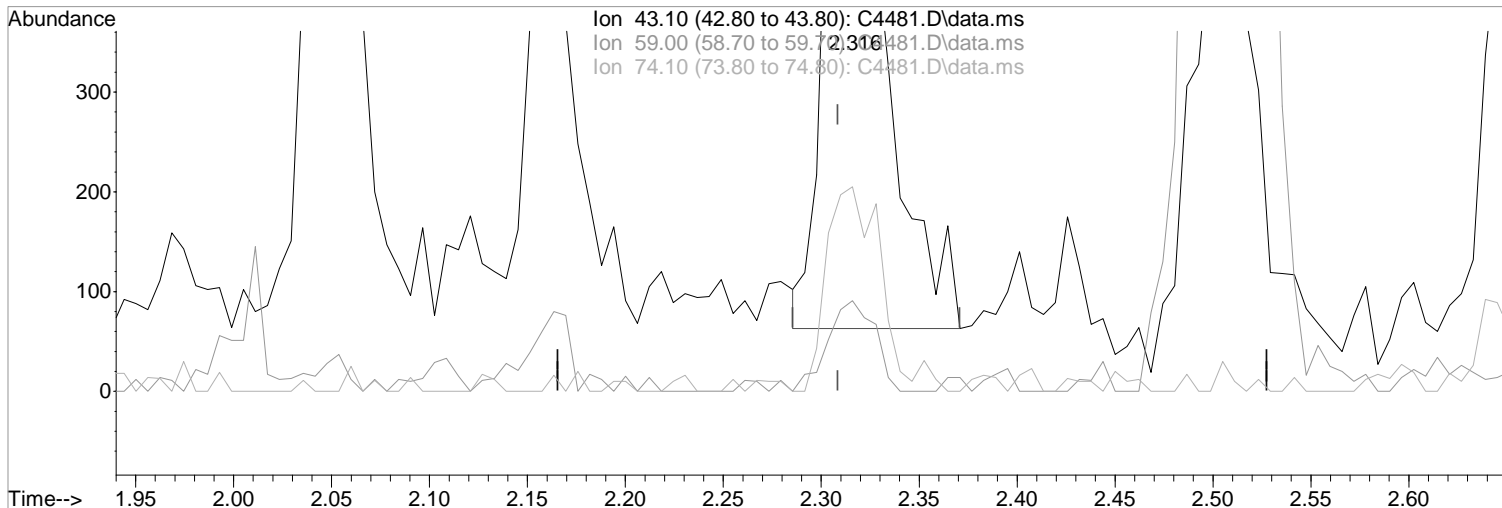
01/23/18

Ion	Exp%	Act%
43.10	100	100
59.00	9.00	6.81
74.10	23.10	15.34
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



(21) Methyl Acetate (P)

2.316min (+0.007) 0.80 ug/L

response 1906

Ion	Exp%	Act%
43.10	100	100
59.00	9.00	6.81
74.10	23.10	15.34
0.00	0.00	0.00

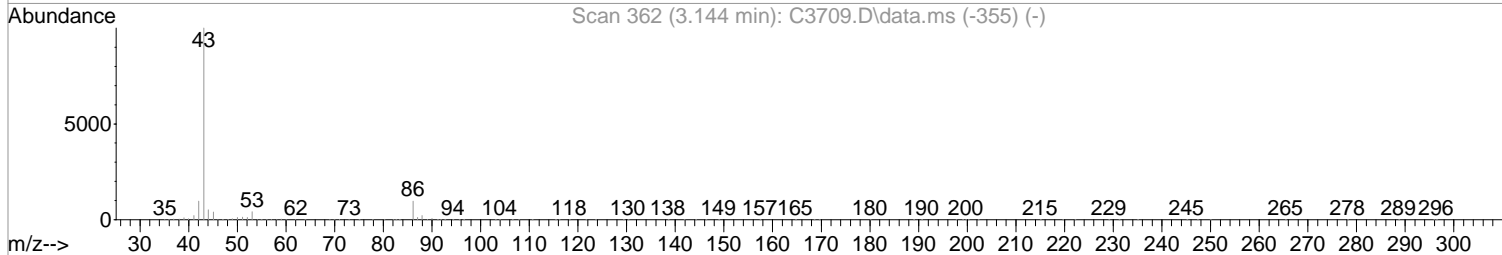
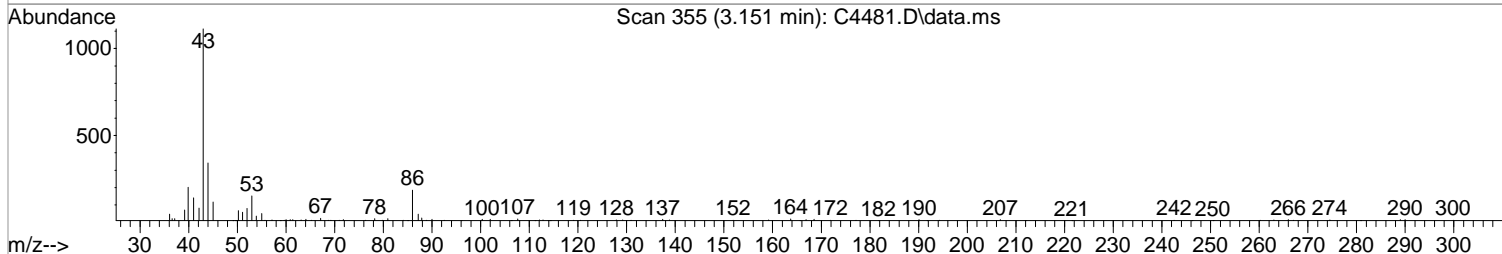
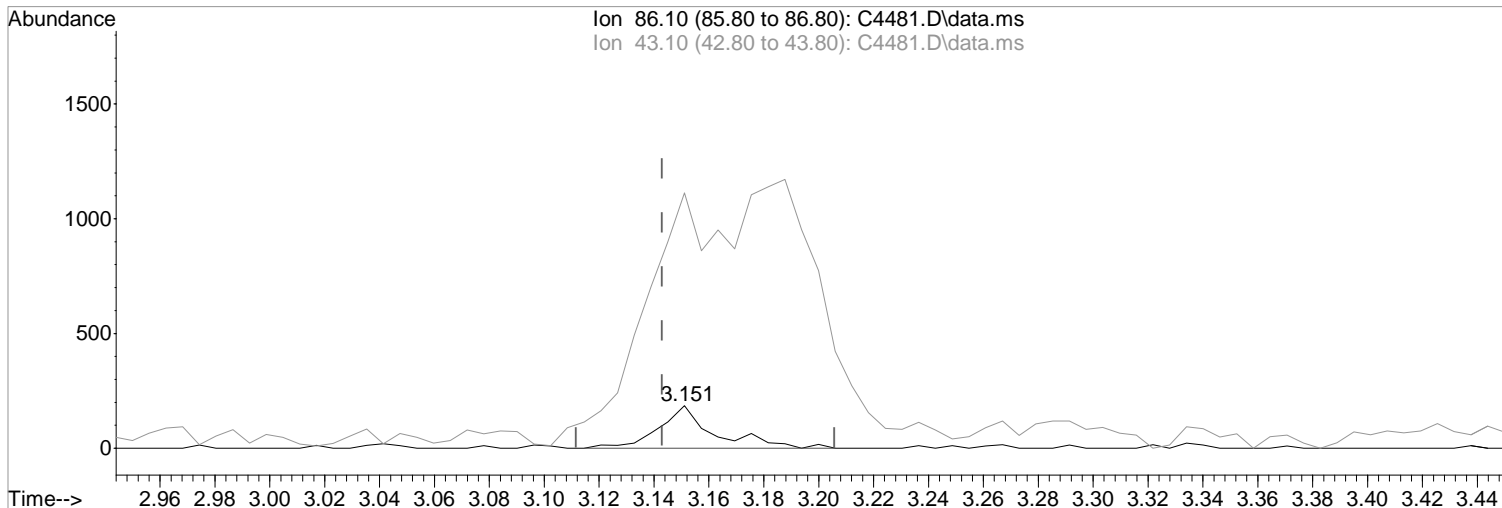
Manual Integration:  
Before  
01/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(28) Vinyl Acetate  
3.151min (+0.008) 0.59 ug/L m  
response 259

Manual Integration:  
After  
Peak not found.

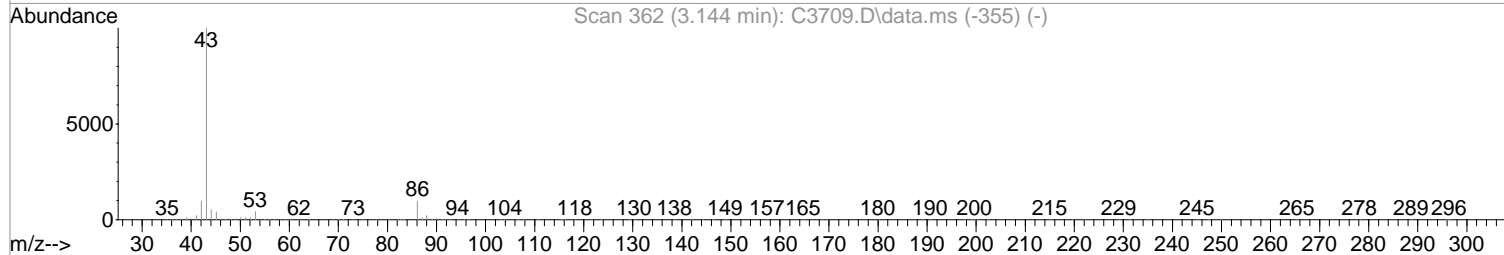
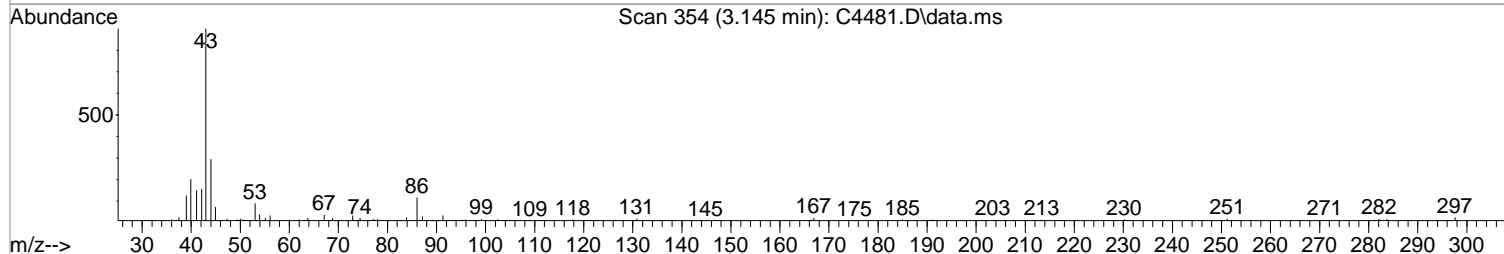
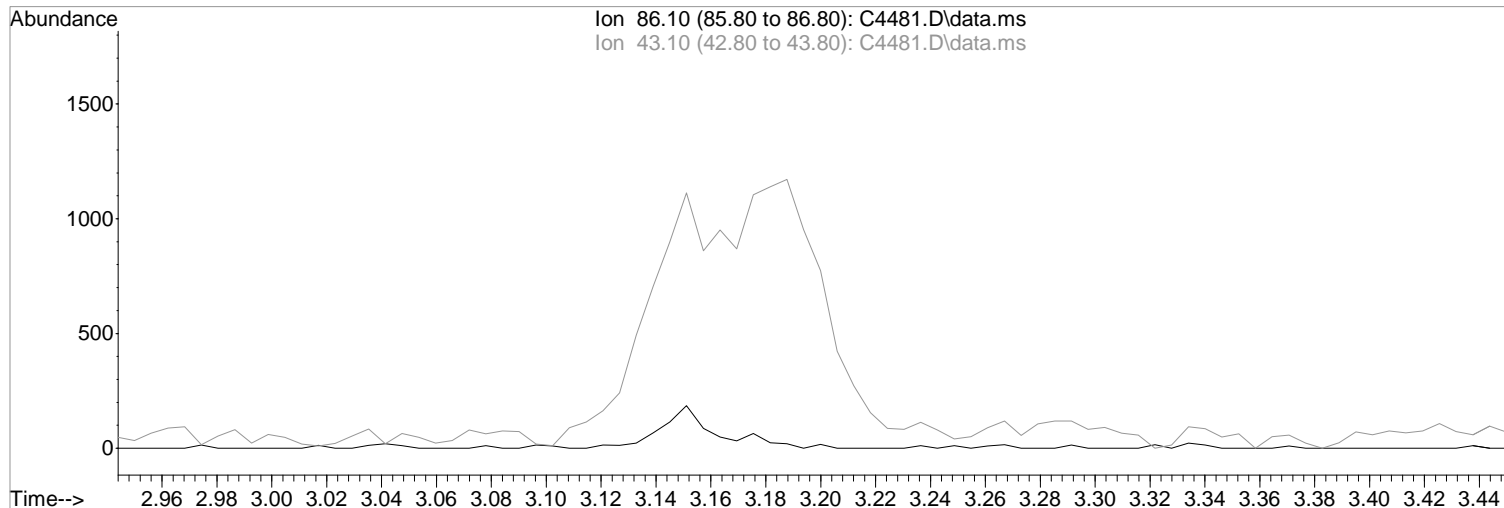
Ion	Exp%	Act%
86.10	100	100
43.10	1039.20	601.62#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(28) Vinyl Acetate  
3.143min (-3.143) 0.00 ug/L  
response 0

Manual Integration:  
Before

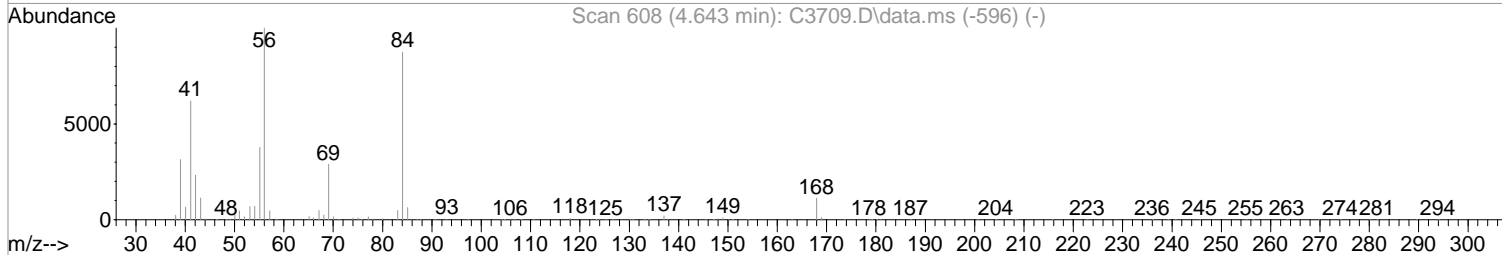
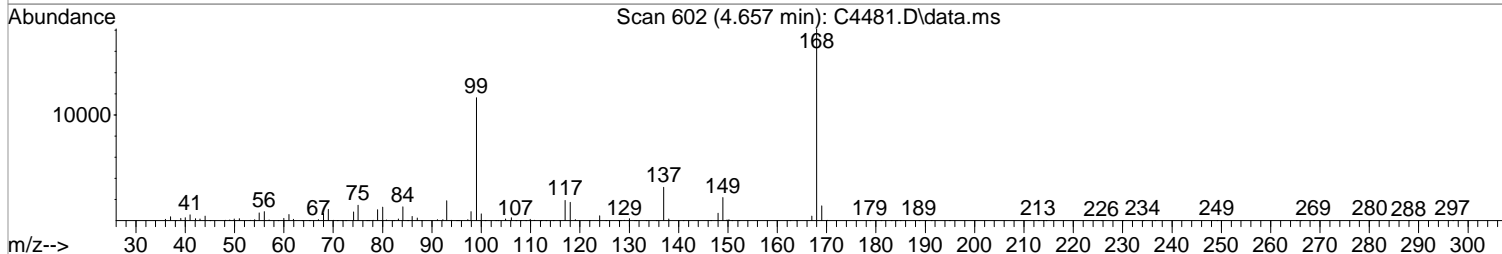
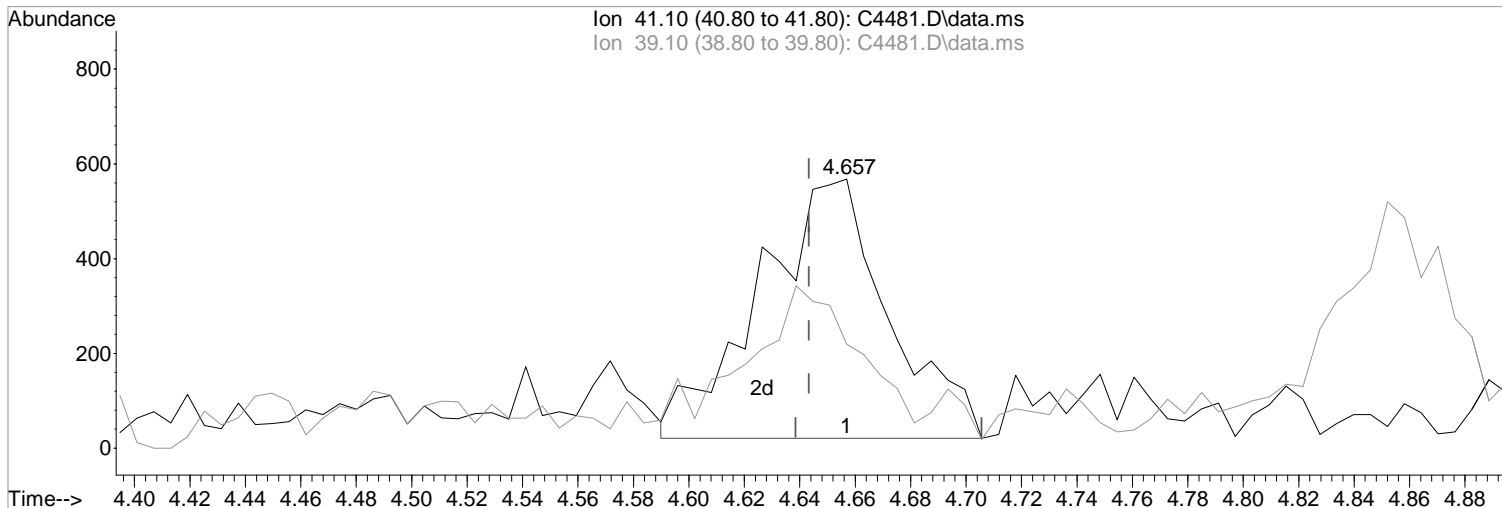
Ion	Exp%	Act%
86.10	100	0.00
43.10	1039.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(43) Cyclohexane (P)  
4.657min (+0.014) 0.74 ug/L m  
response 1763

Manual Integration:  
After  
Poor integration.

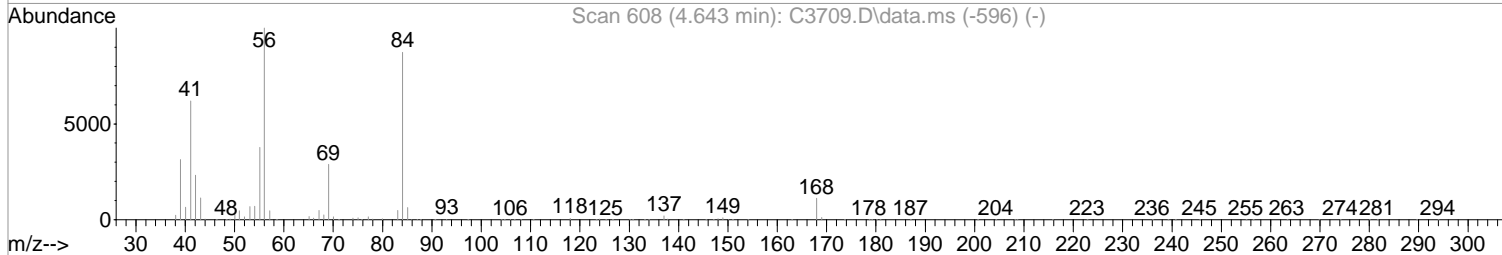
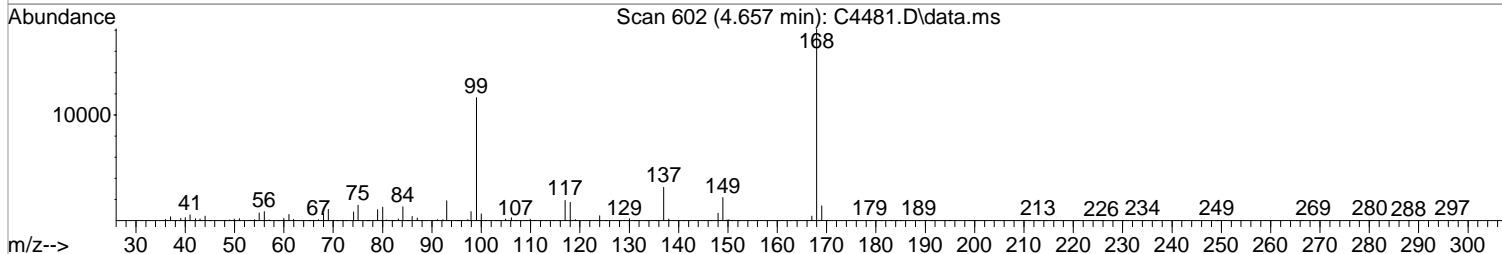
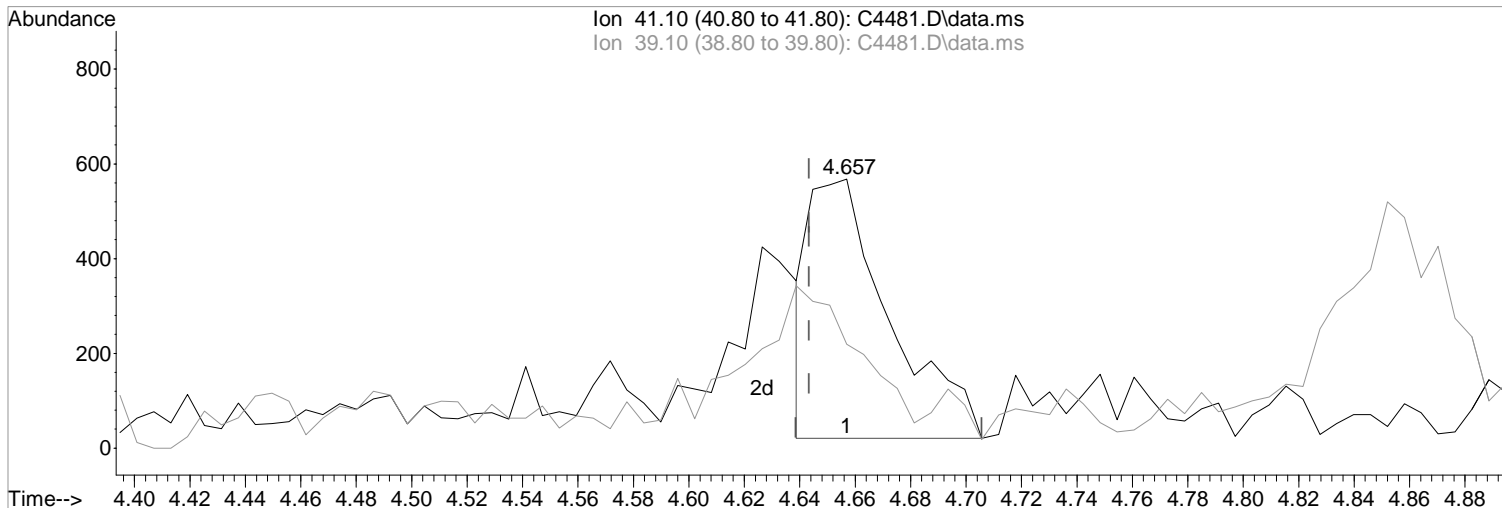
Ion	Exp%	Act%
41.10	100	100
39.10	50.80	38.56
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(43) Cyclohexane (P)  
4.657min (+0.014) 0.46 ug/L  
response 1101

Manual Integration:  
Before

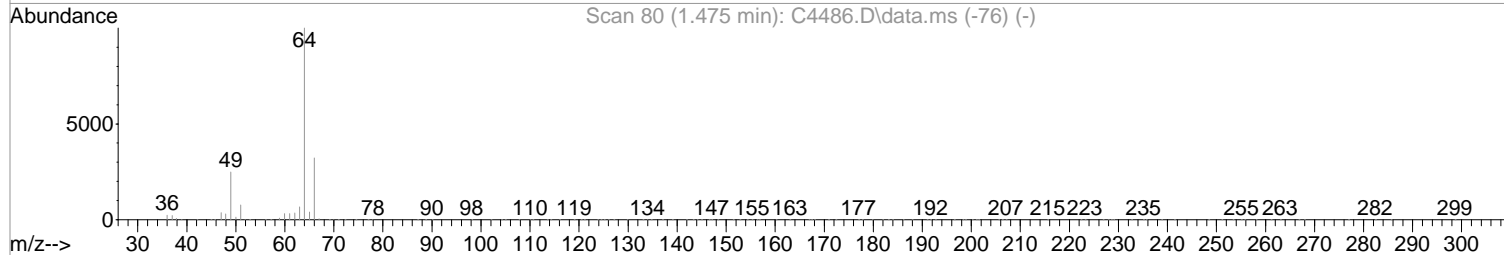
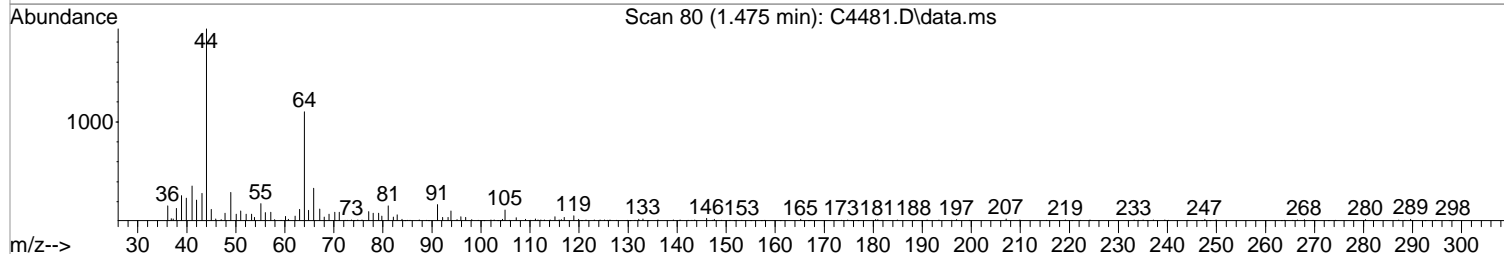
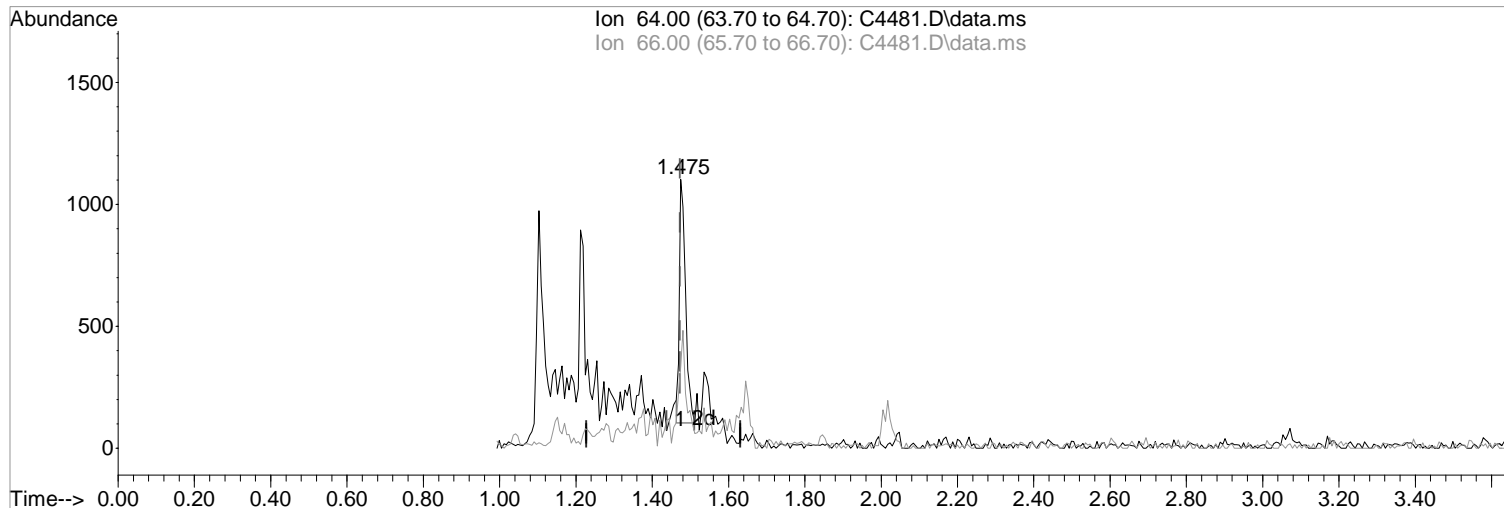
Ion	Exp%	Act%
41.10	100	100
39.10	50.80	38.56
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:56:12 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(6) Chloroethane (P)

1.475min (+0.001) 0.65 ug/L m

response 1126

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	30.37
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

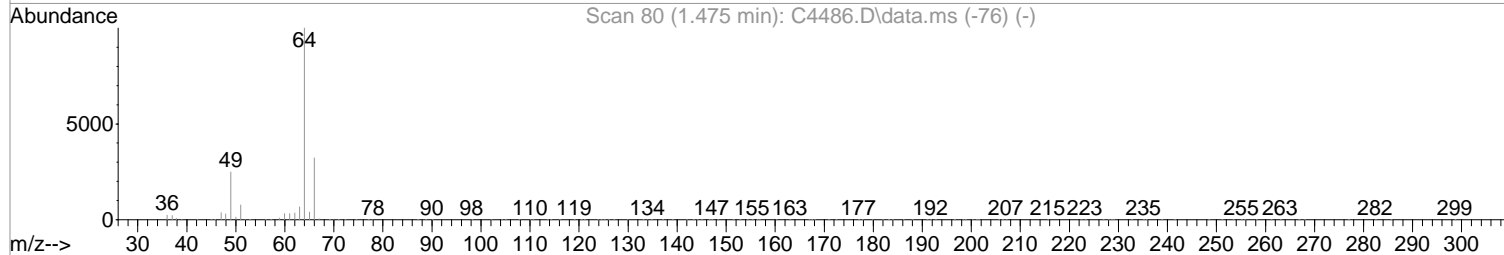
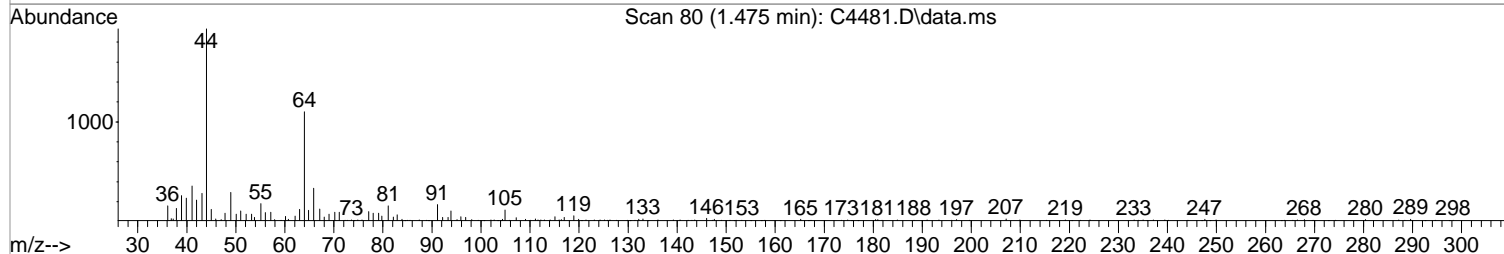
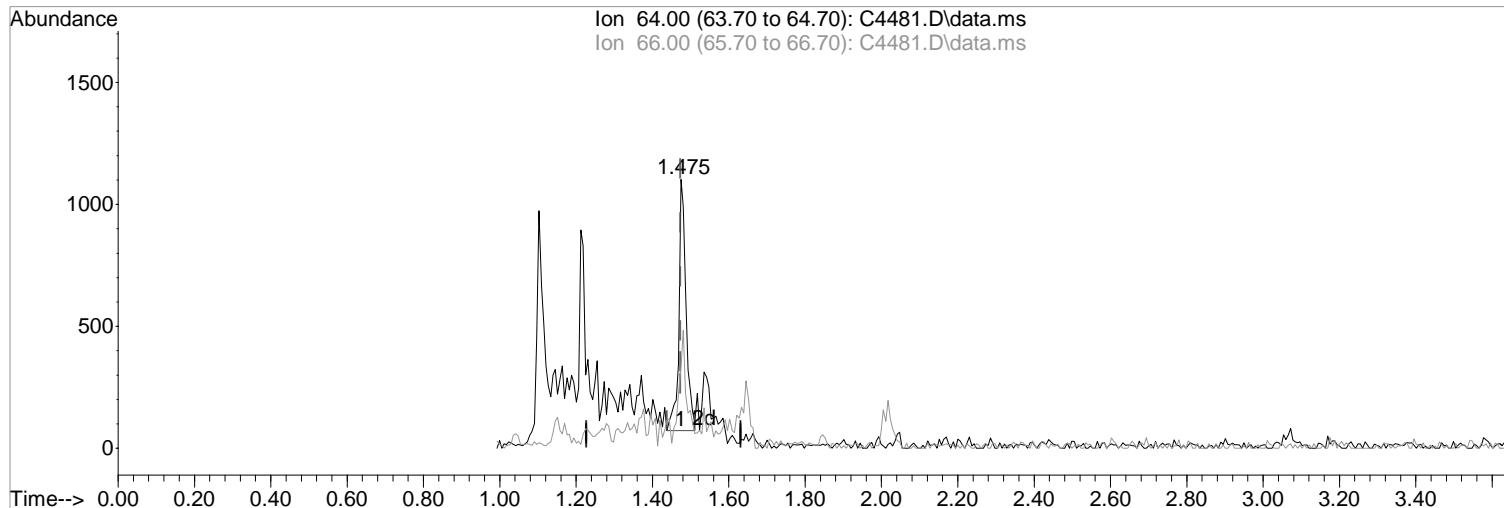
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:56:12 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(6) Chloroethane (P)  
1.475min (+0.001) 0.77 ug/L  
response 1341

Manual Integration:  
Before

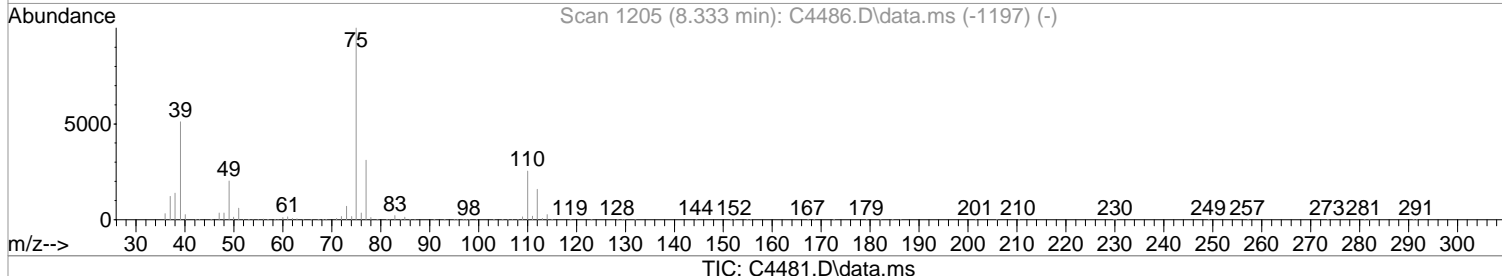
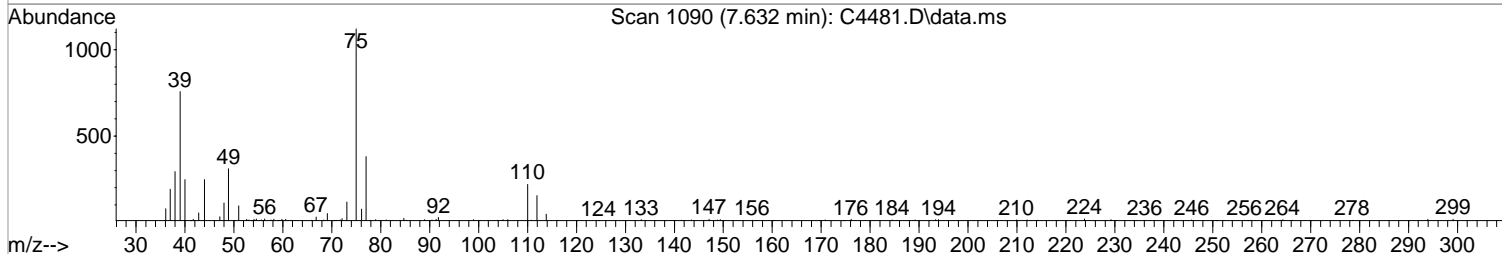
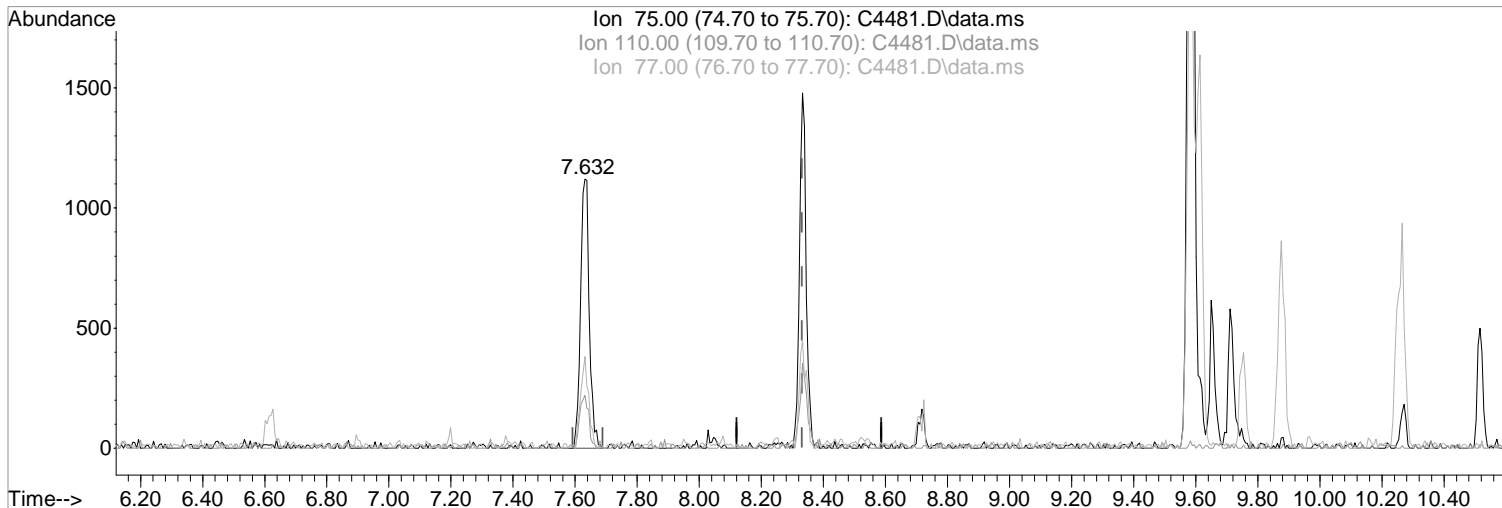
Ion	Exp%	Act%
64.00	100	100
66.00	32.30	30.37
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:46:11 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 0.75 ug/L m  
 response 2176

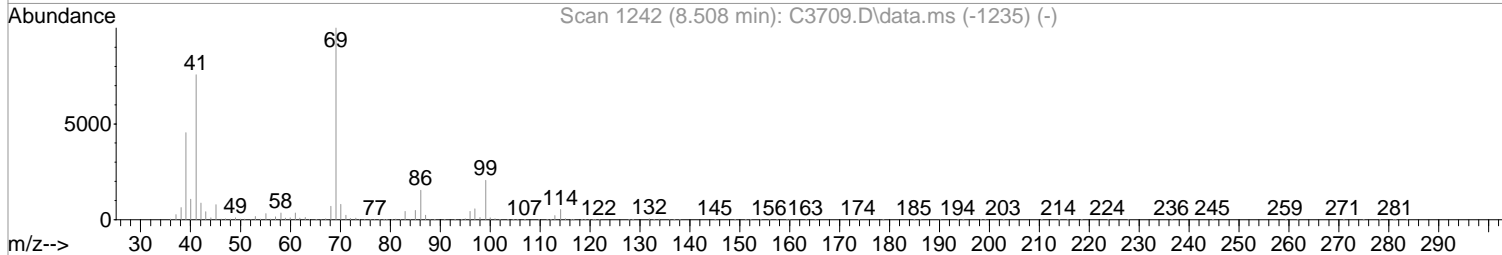
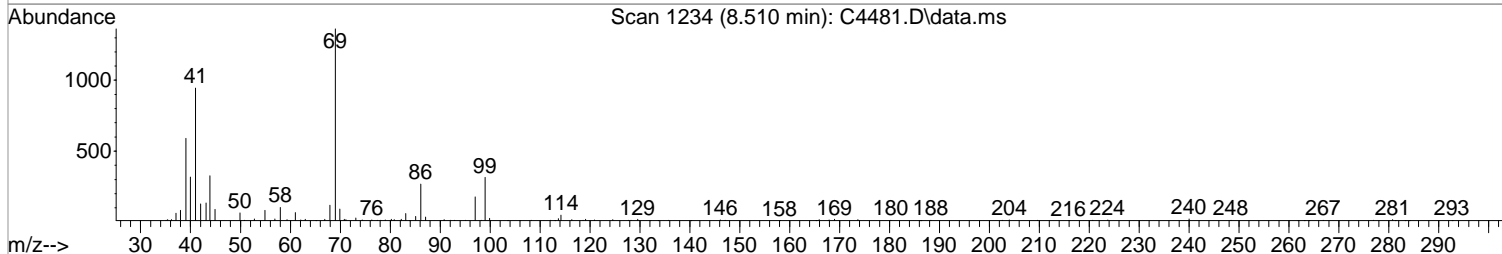
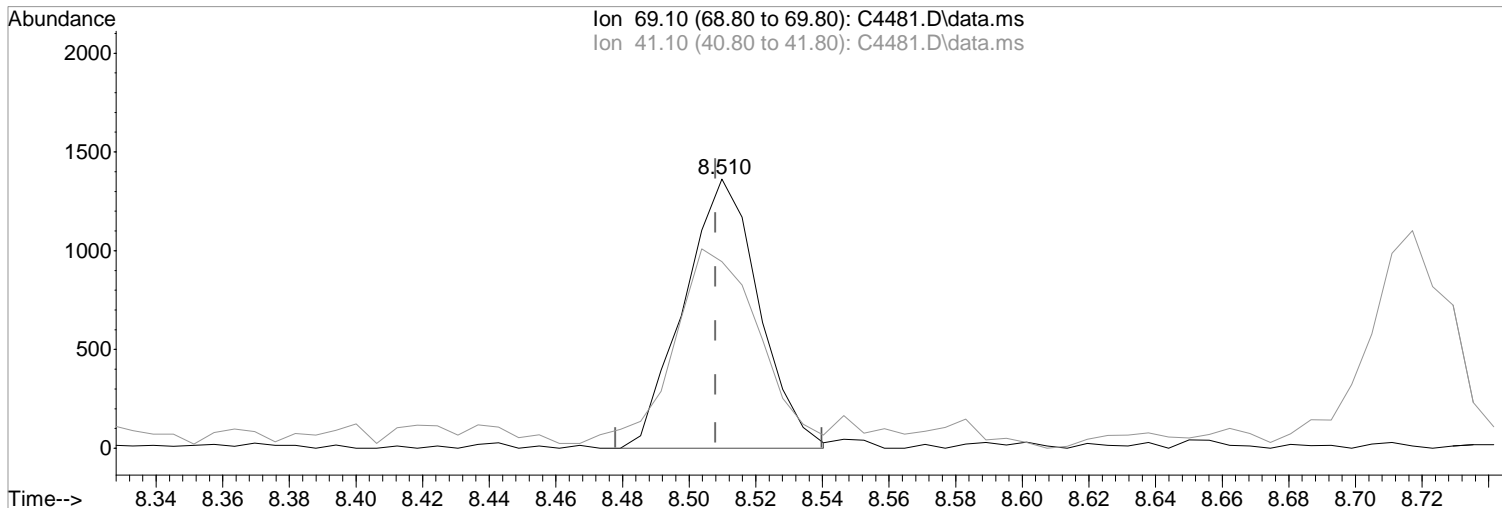
Ion	Exp%	Act%
75.00	100	100
110.00	25.40	19.64
77.00	30.20	34.02
0.00	0.00	0.00

Manual Integration:  
 After  
 Wrong peak selected.  
 02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



(67) Ethyl Methacrylate

8.510min (+0.002) 0.69 ug/L m

response 2132

Ion	Exp%	Act%
69.10	100	100
41.10	75.70	69.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

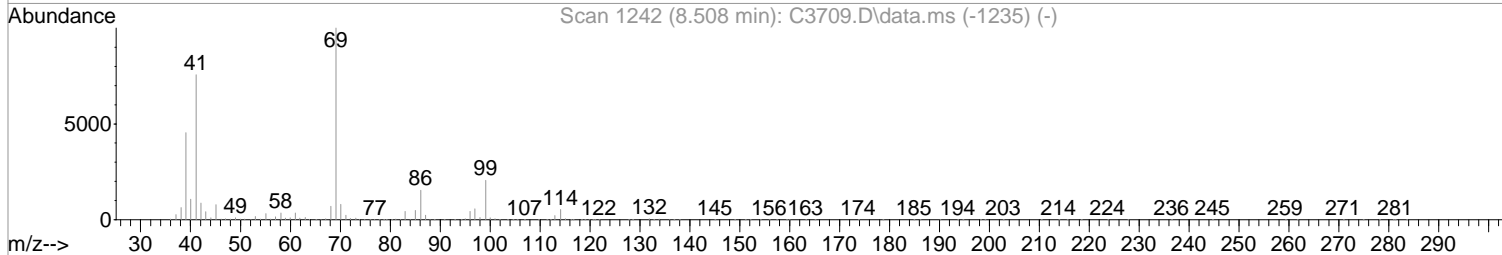
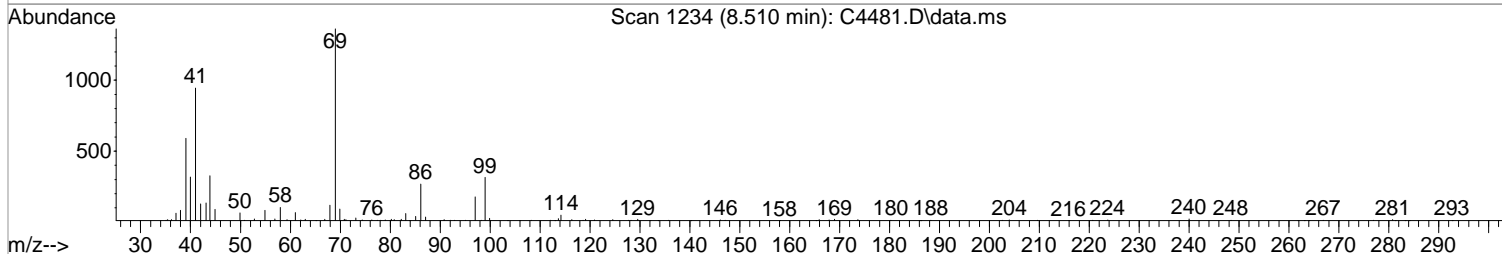
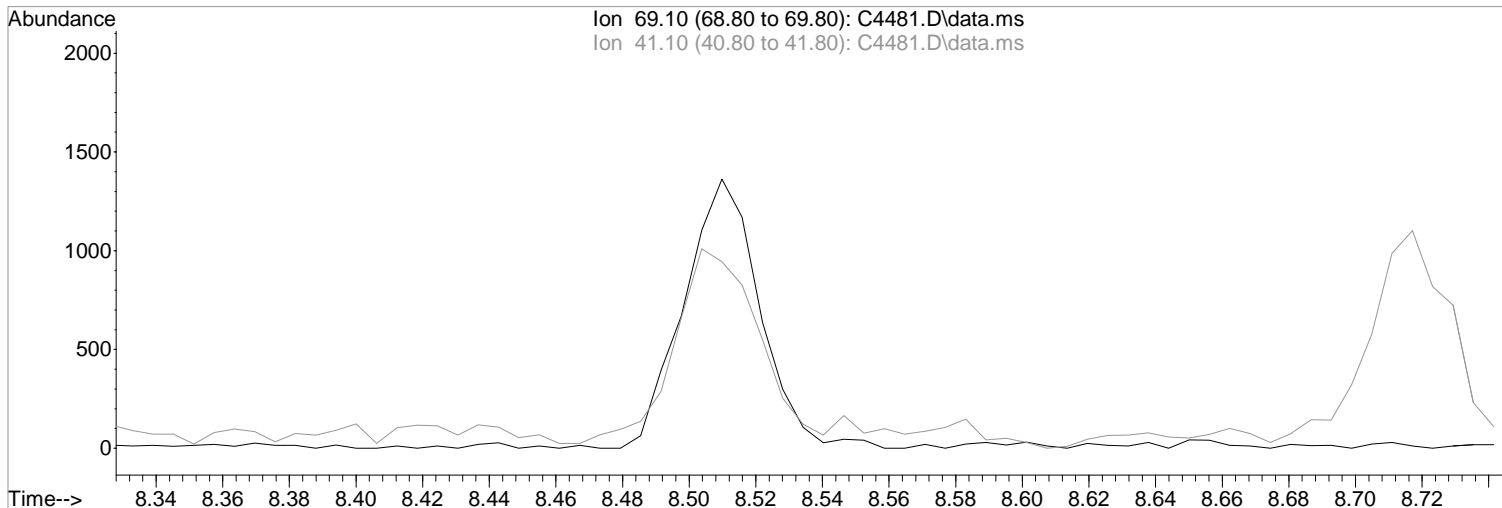
01/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(67) Ethyl Methacrylate  
8.508min (-8.508) 0.00 ug/L  
response 0

Manual Integration:  
Before

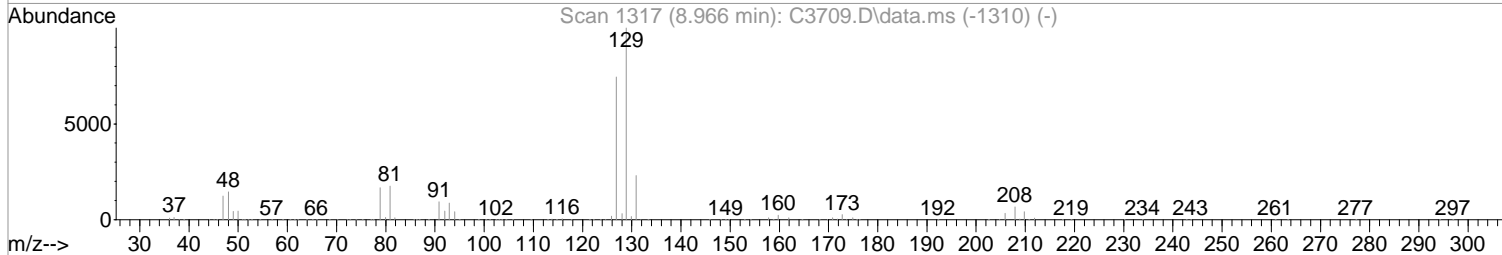
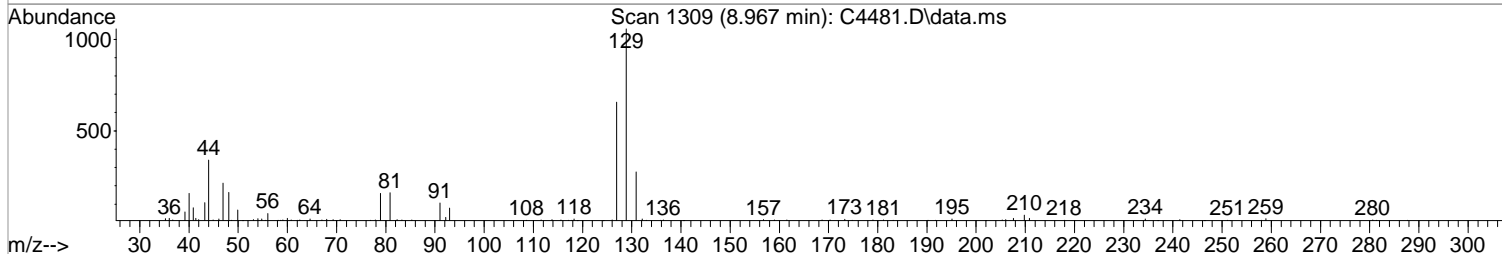
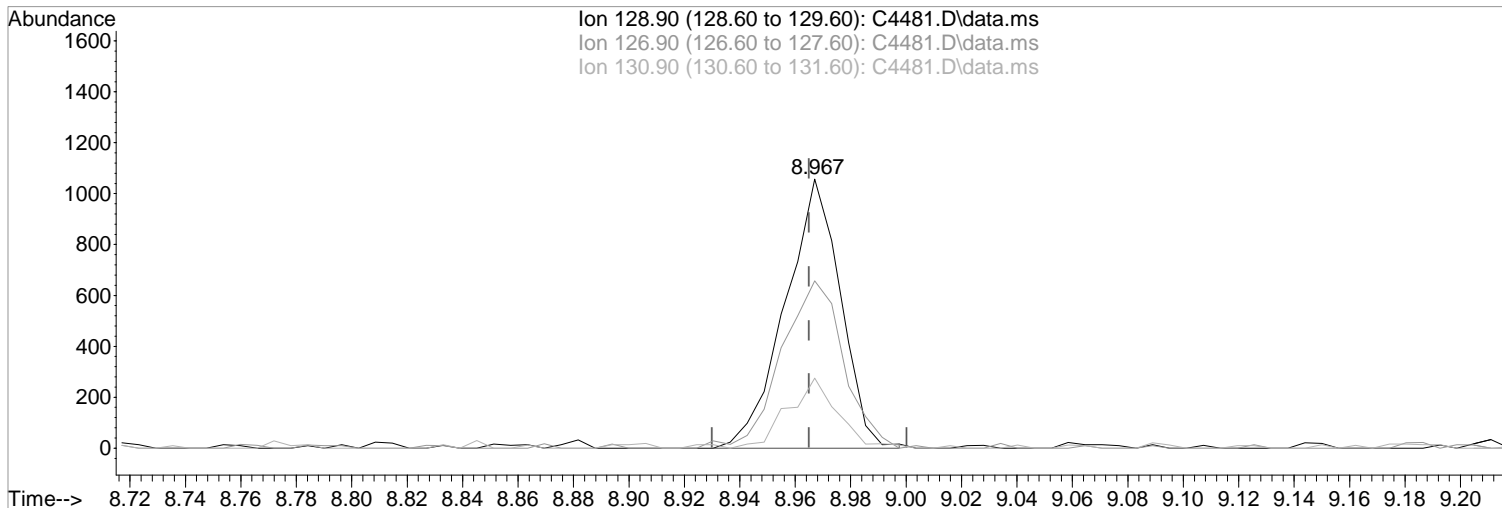
Ion	Exp%	Act%
69.10	100	0.00
41.10	75.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration



TIC: C4481.D\data.ms

(74) Dibromochloromethane (P)

8.967min (+0.002) 0.68 ug/L m  
 response 1467

Ion	Exp%	Act%
128.90	100	100
126.90	74.40	62.16
130.90	23.10	26.02
0.00	0.00	0.00

Manual Integration:

After

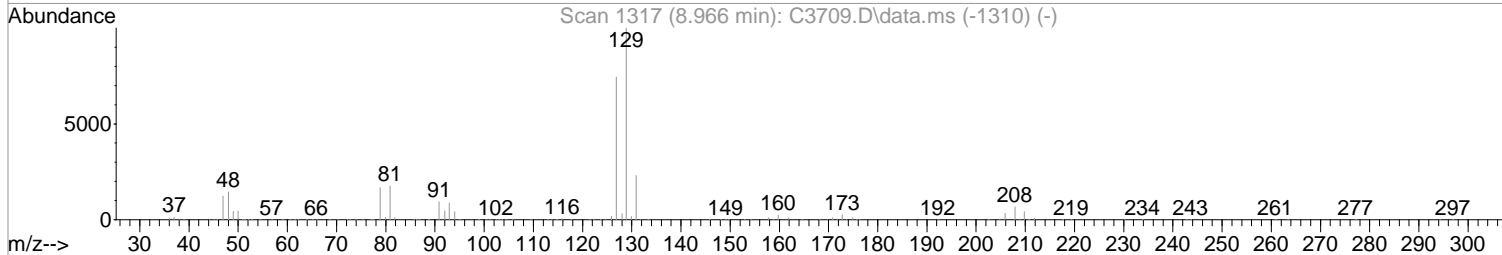
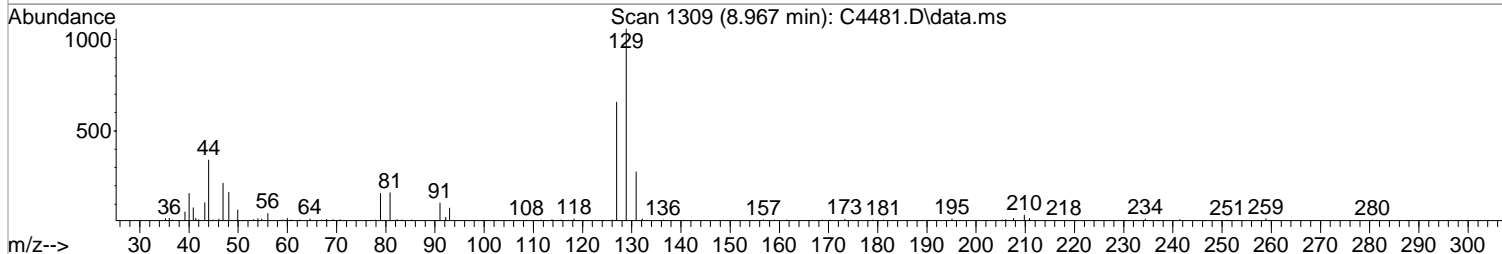
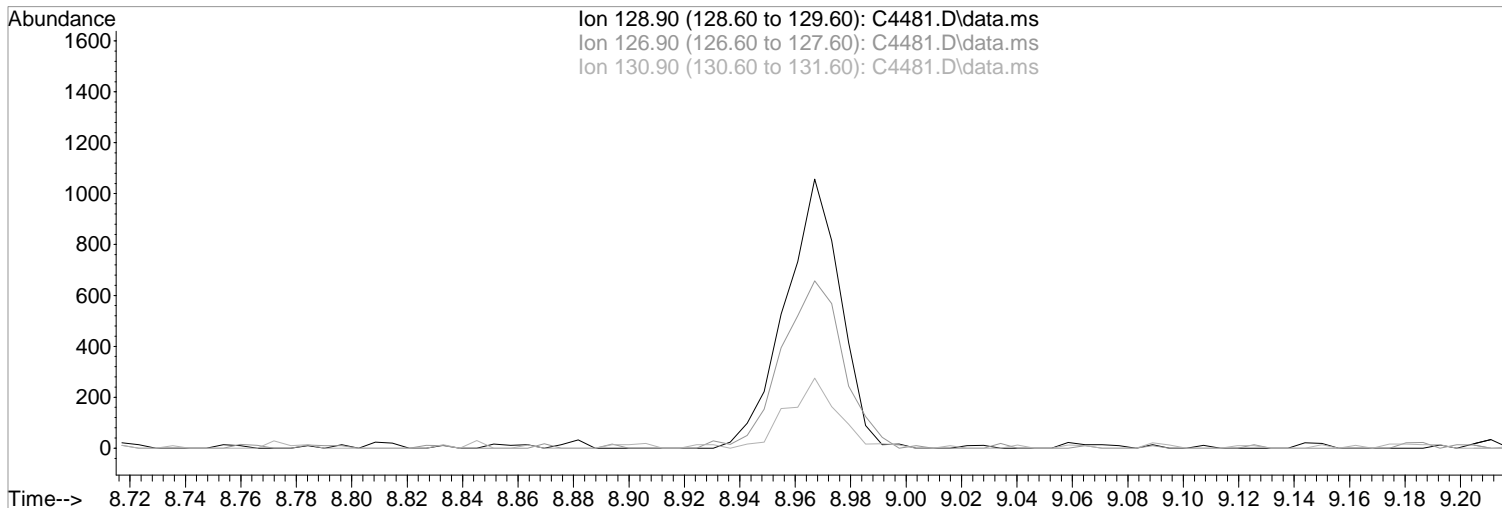
Peak not found.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

8.965min (-8.965) 0.00 ug/L

Before

response 0

Ion Exp% Act%

01/23/18

128.90 100 0.00

126.90 74.40 0.00#

130.90 23.10 0.00#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	257940	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	372369	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	323645	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	176342	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	27693	11.62	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	23.24%#
47) surr1,1,2-dichloroetha...	5.126	65	33934	11.23	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.46%#
64) SURR3,Toluene-d8	7.949	98	106444	11.70	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.40%#
69) SURR2,BFB	10.735	95	40766	11.13	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.26%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.042	85	1776m	0.62	ug/L	
3) Chloromethane	1.152	50	2541	0.89	ug/L	97
4) Vinyl Chloride	1.212	62	1739	0.65	ug/L	77
5) Bromomethane	1.414	94	1565	0.77	ug/L	89
6) Chloroethane	1.475	64	1126m	0.65	ug/L	
7) Freon 21	1.603	67	2428	0.55	ug/L	93
8) Trichlorofluoromethane	1.645	101	1915	0.58	ug/L	98
9) Diethyl Ether	1.846	59	1188	0.58	ug/L	91
10) Freon 123a	1.846	67	1666	0.62	ug/L	98
11) Freon 123	1.889	83	1722	0.57	ug/L	96
12) Acrolein	1.932	56	1934	3.42	ug/L	95
13) 1,1-Dicethene	2.011	96	1256	0.63	ug/L	90
14) Freon 113	2.005	101	1273	0.63	ug/L	# 68
15) Acetone	2.048	43	1417	1.01	ug/L	# 85
16) 2-Propanol	2.157	45	3221	15.50	ug/L	95
17) Iodomethane	2.121	142	633	0.29	ug/L	99
18) Carbon Disulfide	2.176	76	3578	0.74	ug/L	99
20) Allyl Chloride	2.292	76	612	0.70	ug/L	# 68
21) Methyl Acetate	2.316	43	1772m	0.74	ug/L	
22) Methylene Chloride	2.395	84	1436	0.60	ug/L	87
23) TBA	2.505	59	5825	16.90	ug/L	89
24) Acrylonitrile	2.602	53	3866	3.27	ug/L	96
25) Methyl-t-Butyl Ether	2.657	73	4695	0.68	ug/L	96
26) trans-1,2-Dichloroethene	2.645	96	1250	0.55	ug/L	90
27) 1,1-Dicethane	3.060	63	2530	0.63	ug/L	91
28) Vinyl Acetate	3.151	86	259m	0.59	ug/L	
29) DIPE	3.188	45	4687	0.64	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.176	53	2193	0.62	ug/L	93
31) ETBE	3.639	59	4543	0.71	ug/L	89
32) 2,2-Dichloropropane	3.791	77	2229	0.83	ug/L	89
33) cis-1,2-Dichloroethene	3.785	96	1725	0.67	ug/L	96
34) 2-Butanone	3.834	43	1652	0.91	ug/L	90
35) Propionitrile	3.889	54	1689	3.45	ug/L	61
36) Bromochloromethane	4.120	130	1018	0.63	ug/L	86
37) Methacrylonitrile	4.139	67	828	0.71	ug/L	# 82
38) Tetrahydrofuran	4.218	42	987	0.96	ug/L	68
39) Chloroform	4.285	83	2755	0.66	ug/L	78
40) 1,1,1-Trichloroethane	4.553	97	2128	0.65	ug/L	83
41) TAME	5.516	73	4533	0.76	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Cyclohexane	4.657	41	1763m	0.74	ug/L	
45) Carbontetrachloride	4.846	117	1752	0.67	ug/L	90
46) 1,1-Dichloropropene	4.864	75	2122	0.67	ug/L	90
48) Benzene	5.212	78	5523	0.60	ug/L	93
49) 1,2-Dichloroethane	5.260	62	2202	0.59	ug/L	91
50) Iso-Butyl Alcohol	5.260	43	2442	15.06	ug/L #	74
51) n-Heptane	5.803	43	2044	0.73	ug/L	98
52) 1-Butanol	6.376	56	3299	37.47	ug/L	97
53) Trichloroethene	6.309	130	1426	0.53	ug/L	87
54) Methylcyclohexane	6.571	55	1729	0.57	ug/L	83
55) 1,2-Dicloropropane	6.614	63	1394	0.57	ug/L	69
56) Dibromomethane	6.760	93	999	0.61	ug/L #	87
57) 1,4-Dioxane	6.864	88	760	16.36	ug/L	92
58) Methyl Methacrylate	6.894	69	1421	0.74	ug/L #	81
59) Bromodichloromethane	7.028	83	1775	0.62	ug/L	98
60) 2-Nitropropane	7.339	41	948	1.50	ug/L	92
61) 2-Chloroethylvinyl Ether	7.498	63	545	1.07	ug/L	81
62) cis-1,3-Dichloropropene	8.333	75	2187	0.75	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	2060	0.69	ug/L	97
65) Toluene	8.028	91	6164	0.61	ug/L	96
66) trans-1,3-Dichloropropene	8.333	75	2187	0.75	ug/L	98
67) Ethyl Methacrylate	8.510	69	2132m	0.69	ug/L	
68) 1,1,2-Trichloroethane	8.534	97	1506	0.62	ug/L	86
71) Tetrachloroethene	8.674	164	1148	0.55	ug/L	89
72) 2-Hexanone	8.876	43	1301	0.59	ug/L	86
73) 1,3-Dichloropropene	8.717	76	2325	0.58	ug/L	90
74) Dibromochloromethane	8.967	129	1467m	0.68	ug/L	
75) N-Butyl Acetate	9.059	43	2705	0.64	ug/L	89
76) 1,2-Dibromoethane	9.065	107	1278	0.54	ug/L #	65
77) 3-Chlorobenzotrifluoride	9.656	180	2390	0.63	ug/L	96
78) Chlorobenzene	9.613	112	3903	0.59	ug/L	98
79) 4-Chlorobenzotrifluoride	9.717	180	2273	0.67	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.711	131	1279	0.60	ug/L	90
81) Ethylbenzene	9.753	106	2133	0.62	ug/L #	90
82) (m+p)Xylene	9.875	106	5024	1.18	ug/L	98
83) o-Xylene	10.253	106	2398	0.57	ug/L	98
84) Styrene	10.266	104	4203	0.61	ug/L	97
85) Bromoform	10.418	173	1057	0.69	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	2346	0.62	ug/L	91
87) Isopropylbenzene	10.613	105	6641	0.61	ug/L	94
88) Cyclohexanone	10.662	55	6960	12.50	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.942	53	641	0.88	ug/L	87
91) 1,1,2,2-Tetrachloroethane	10.887	83	2131	0.70	ug/L	94
92) Bromobenzene	10.857	156	1556	0.55	ug/L #	86
93) 1,2,3-Trichloropropane	10.906	110	682	0.62	ug/L #	78
94) n-Propylbenzene	10.985	91	7432	0.63	ug/L	98
95) 2-Chlorotoluene	11.040	91	4457	0.62	ug/L	94
96) 3-Chlorotoluene	11.095	91	4851	0.67	ug/L	98
97) 4-Chlorotoluene	11.137	91	5079	0.60	ug/L	93
98) 1,3,5-Trimethylbenzene	11.150	105	4967	0.59	ug/L	99
99) tert-Butylbenzene	11.424	119	4633	0.63	ug/L	94
100) 1,2,4-Trimethylbenzene	11.467	105	5522	0.66	ug/L	94
101) 3,4-Dichlorobenzotrifl...	11.540	214	1938	0.64	ug/L	93
102) sec-Butylbenzene	11.613	105	6482	0.60	ug/L	99
103) p-Isopropyltoluene	11.741	119	5720	0.61	ug/L	91
104) 1,3-Dclbenz	11.686	146	3363	0.62	ug/L	93

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.759	146	3603	0.63	ug/L	96
106) 2,4-Dichlorobenzotrifl...	11.832	214	1724	0.62	ug/L	92
107) 2,5-Dichlorobenzotrifl...	11.875	214	1830	0.58	ug/L	97
108) n-Butylbenzene	12.082	91	5157	0.62	ug/L	97
109) 1,2-Dclbenz	12.070	146	3086	0.58	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	612	0.89	ug/L #	86
111) Trielution Dichlorotol...	12.832	125	8471	1.98	ug/L	93
112) 1,3,5-Trichlorobenzene	12.881	180	2465	0.60	ug/L	87
113) Coelution Dichlorotoluene	13.155	125	6345	1.37	ug/L	96
114) 1,2,4-Tcbenzene	13.369	180	2456	0.63	ug/L	90
115) Hexachlorobt	13.515	225	1073	0.60	ug/L	89
116) Naphthalen	13.558	128	6570	0.66	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	2476	0.65	ug/L	97
118) 2,4,5-Trichlorotoluene	14.338	159	1704	0.74	ug/L	90
119) 2,3,6-Trichlorotoluene	14.423	159	1611	0.75	ug/L	95

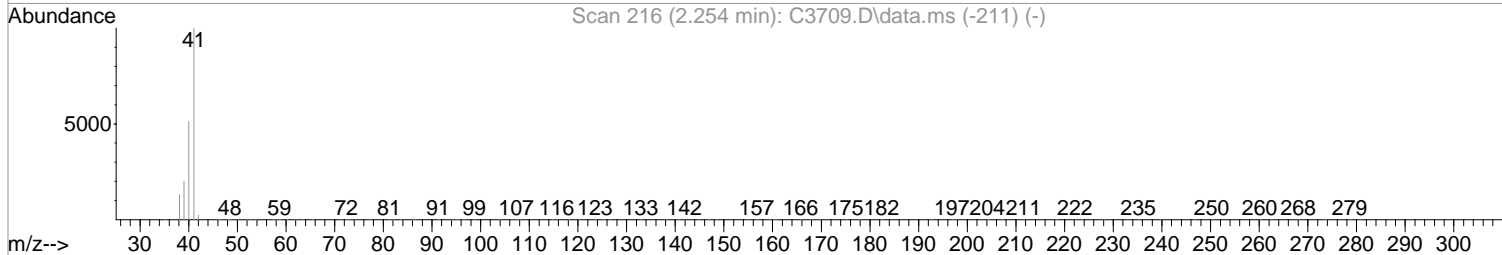
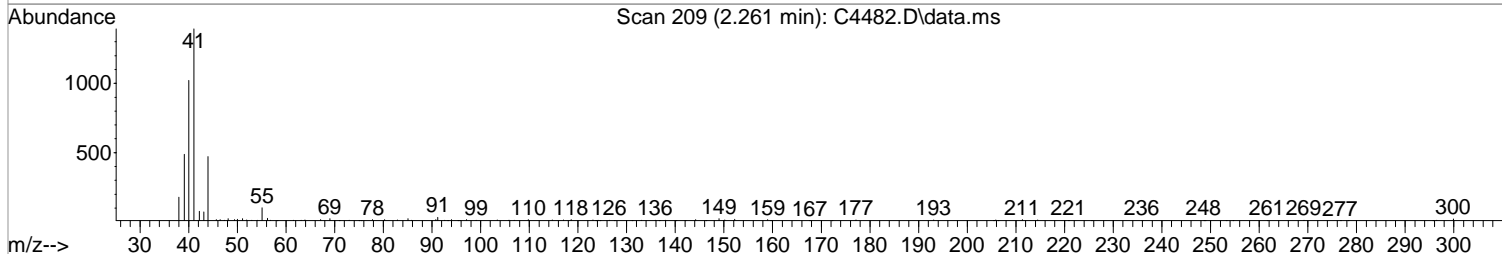
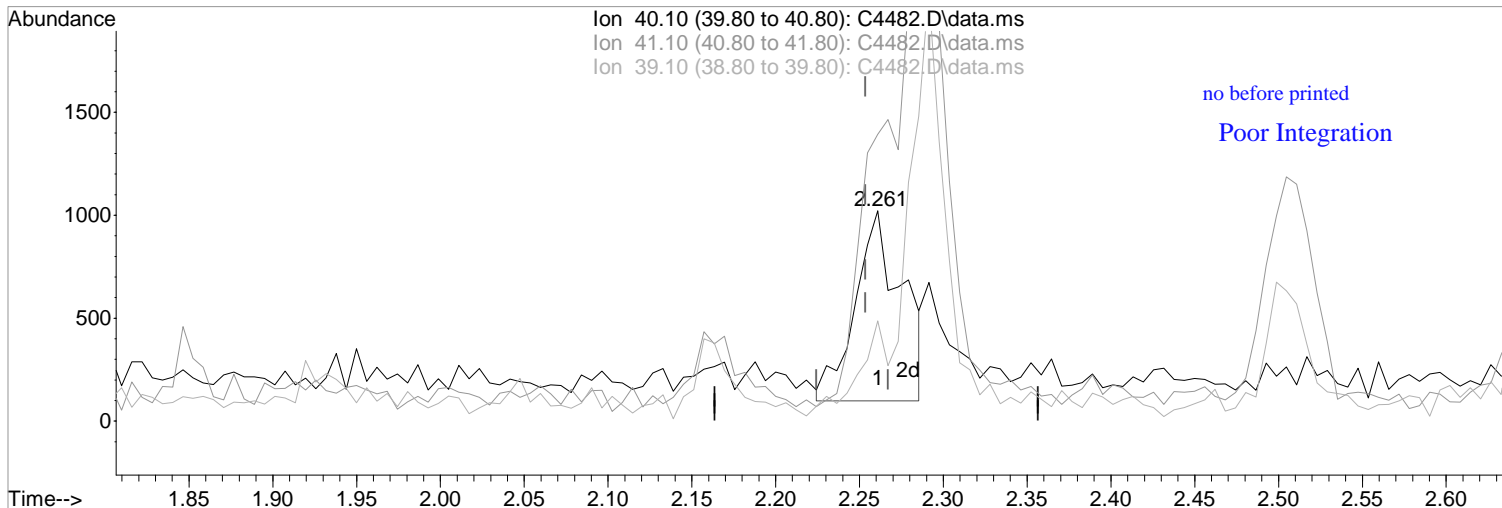
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:37:31 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



TIC: C4482.D\data.ms

(19) Acetonitrile  
2.261min (+0.007) 7.50 ug/L m  
response 1792

Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
40.10	100	100
41.10	193.90	136.30#
39.10	39.50	47.75
0.00	0.00	0.00

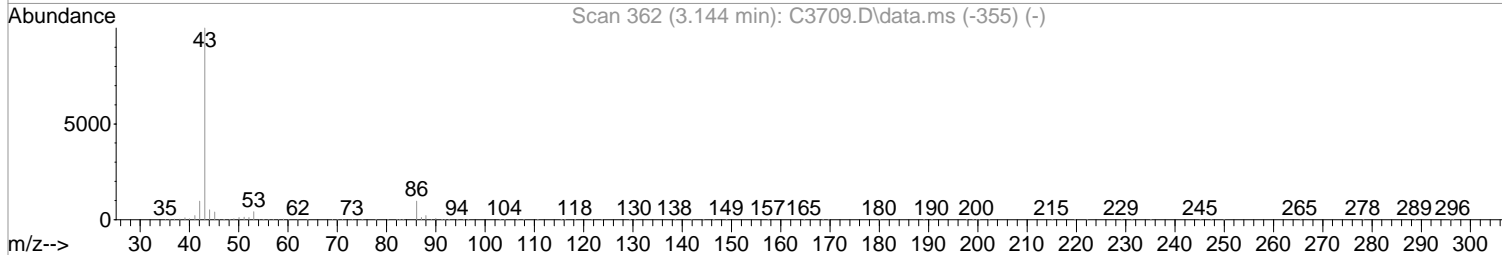
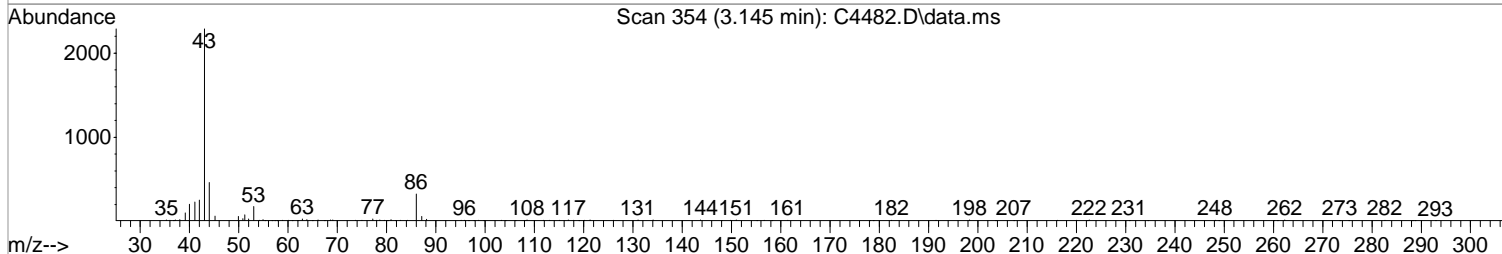
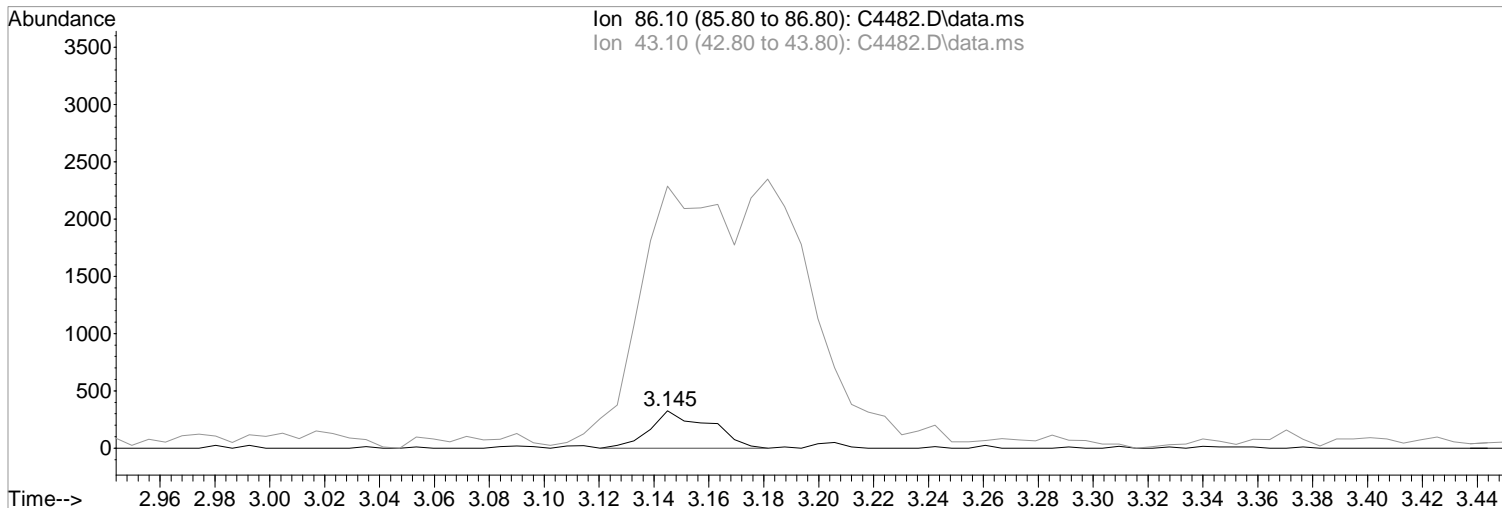
01/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



TIC: C4482.D\data.ms

(28) Vinyl Acetate  
3.145min (+0.002) 1.07 ug/L m  
response 493

Manual Integration:

After

Peak not found.

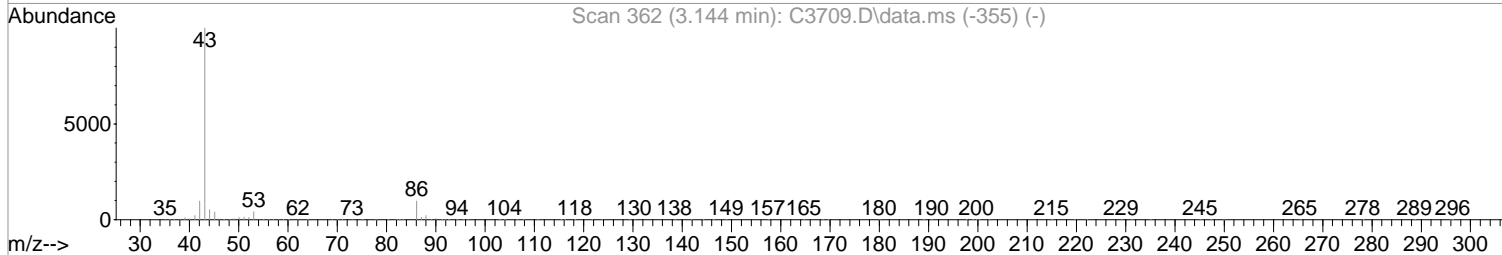
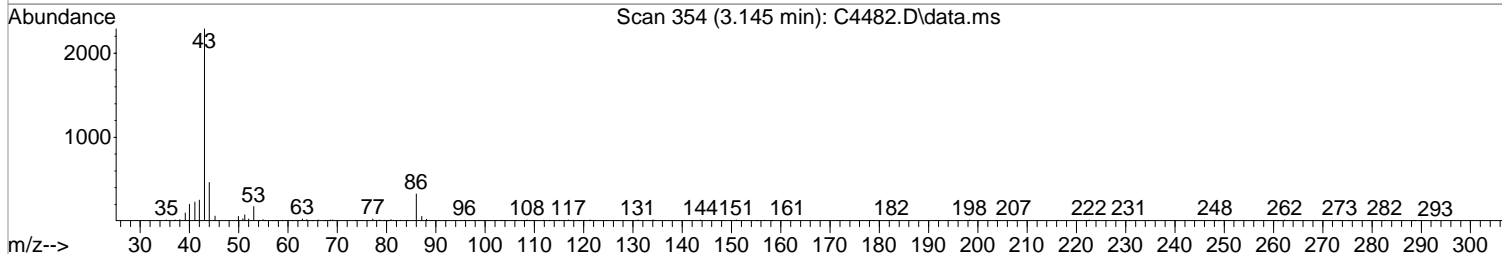
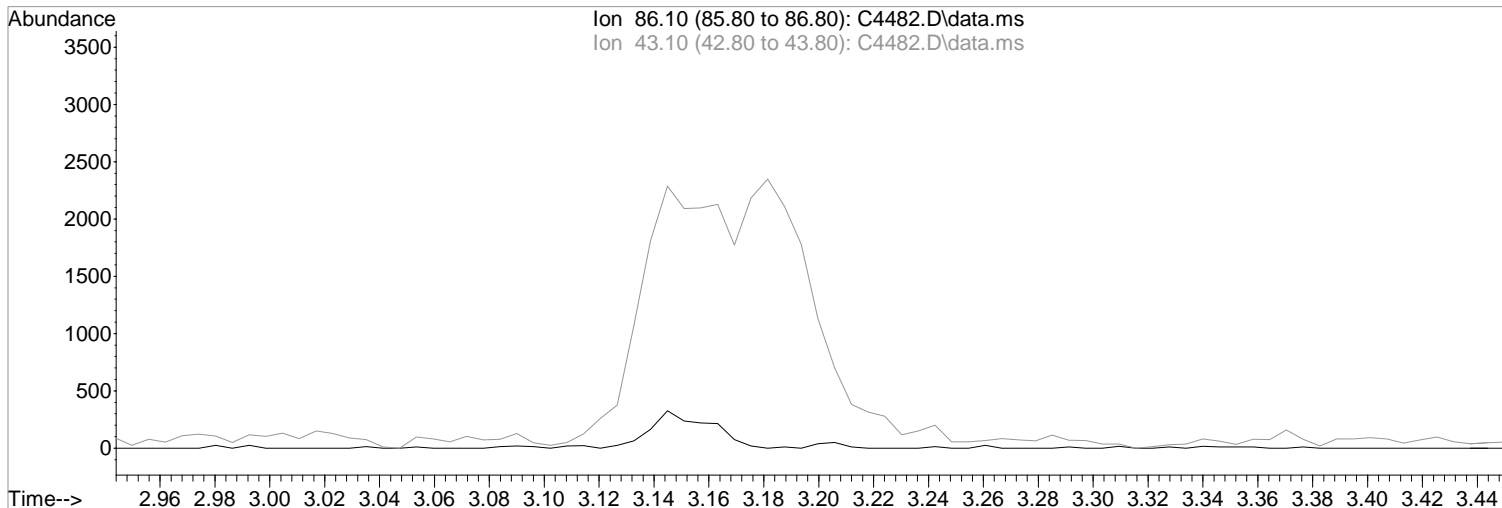
01/23/18

Ion	Exp%	Act%
86.10	100	100
43.10	1039.20	699.69#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



TIC: C4482.D\data.ms

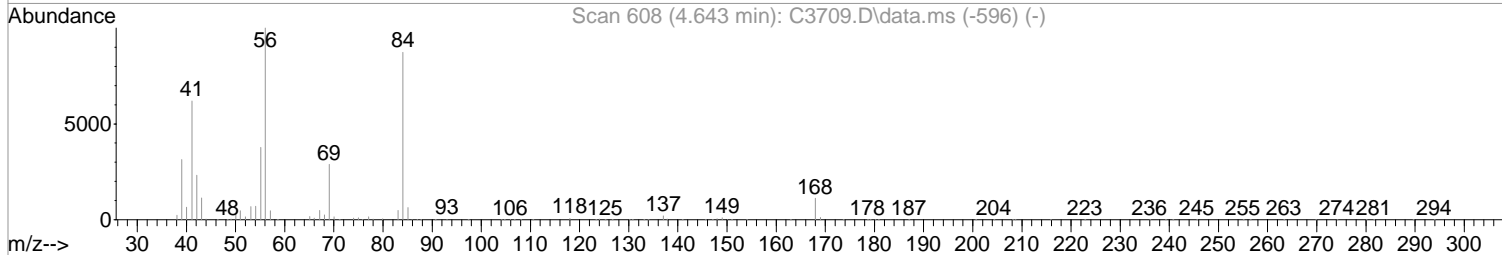
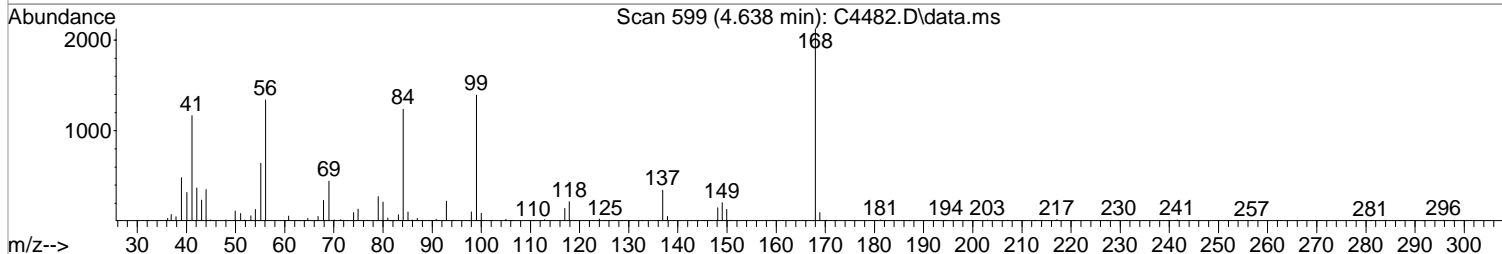
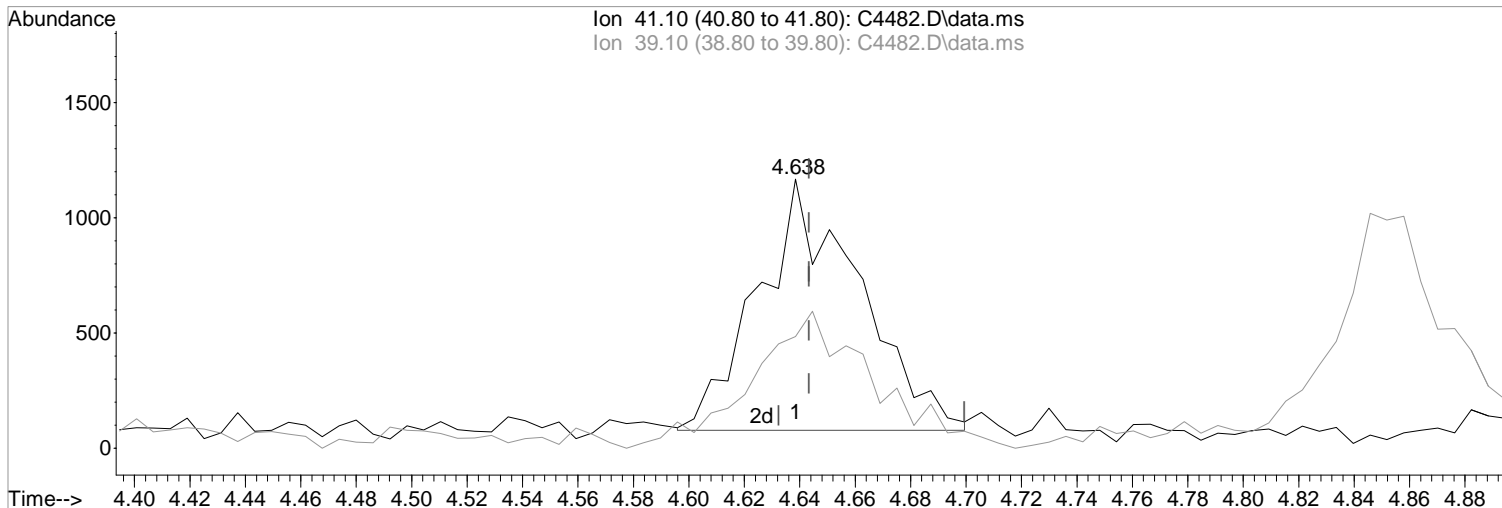
(28) Vinyl Acetate	Manual Integration:	
3.143min (-3.143) 0.00 ug/L	Before	
response 0		
Ion	Exp%	Act%
86.10	100	0.00
43.10	1039.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)

4.638min (-0.005) 1.08 ug/L m

response 2768

Ion	Exp%	Act%
41.10	100	100
39.10	50.80	41.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

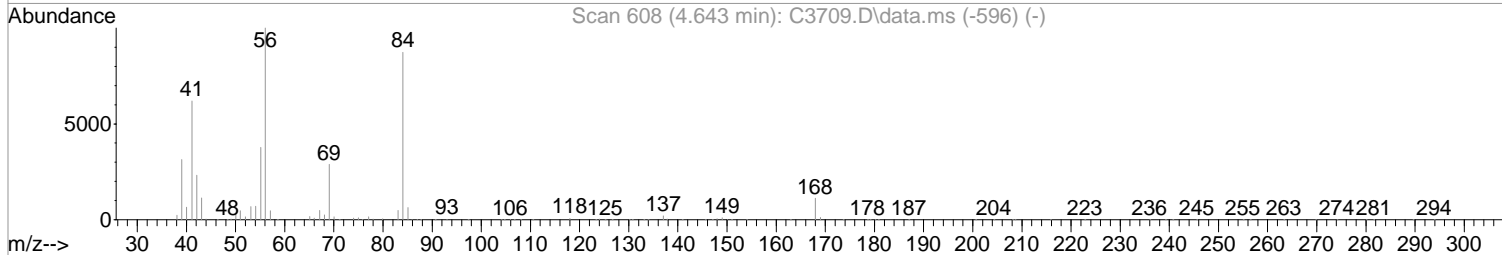
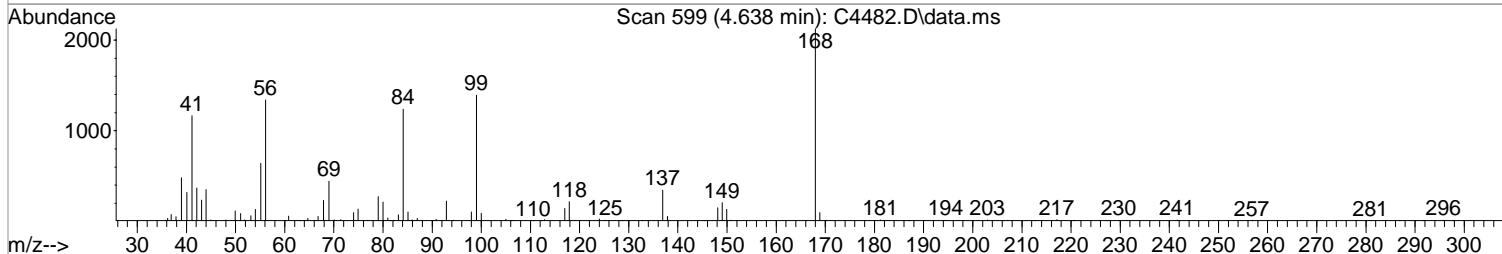
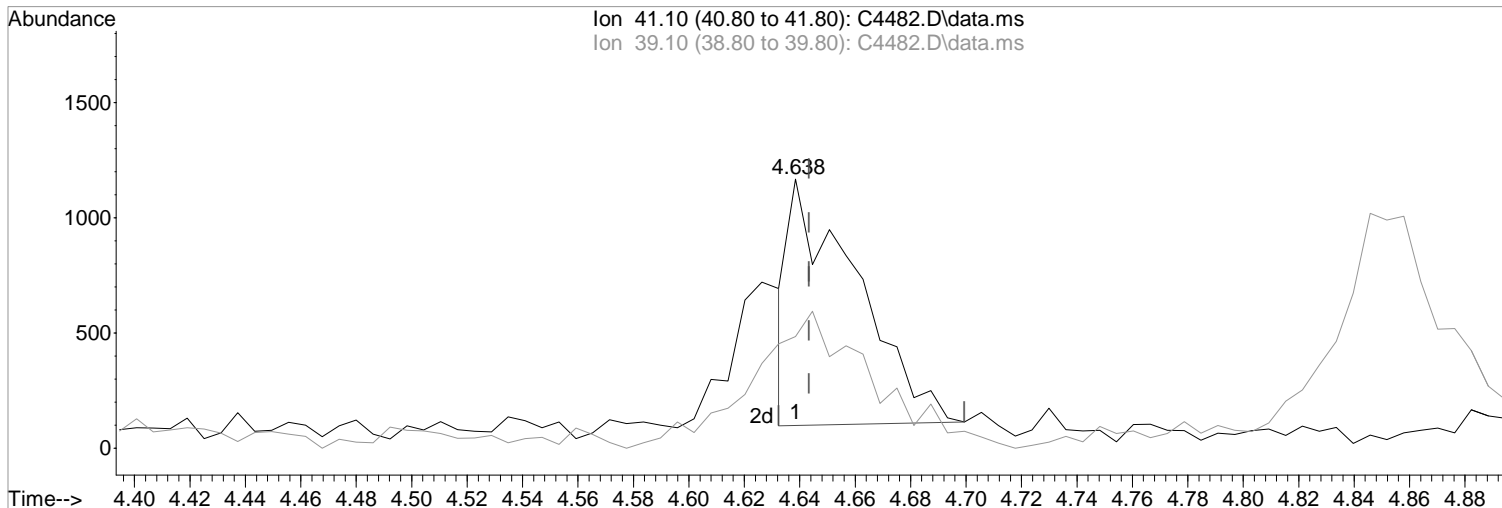
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)  
4.638min (-0.005) 0.70 ug/L  
response 1810

Manual Integration:  
Before

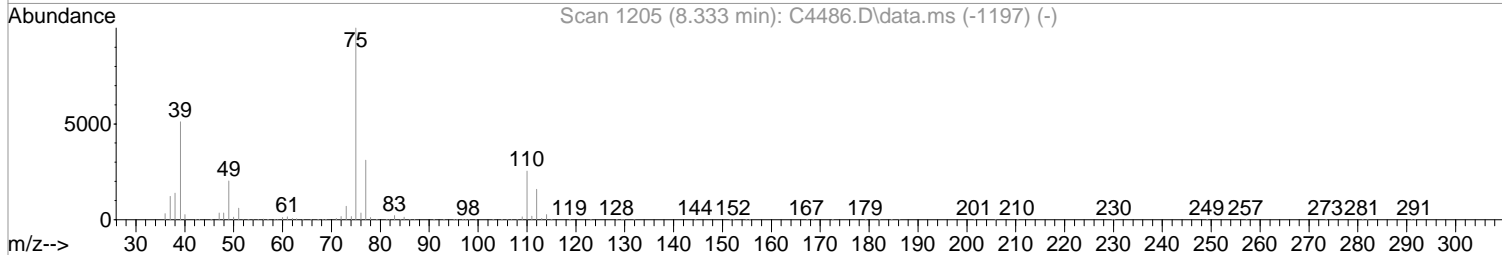
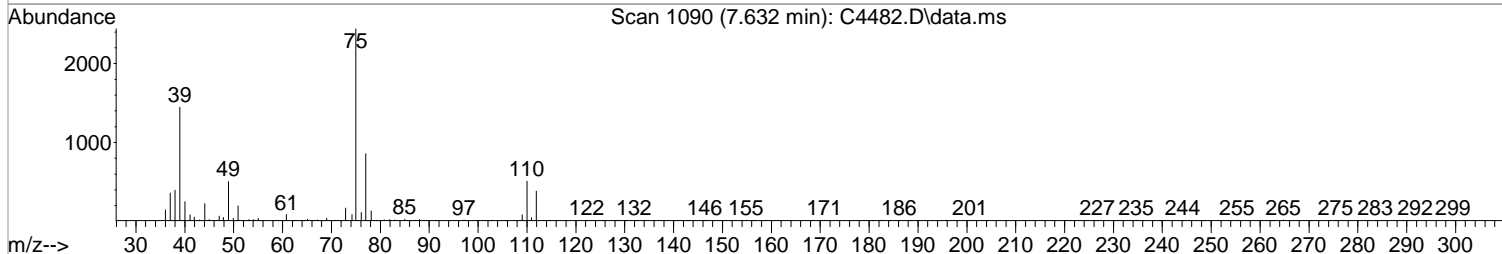
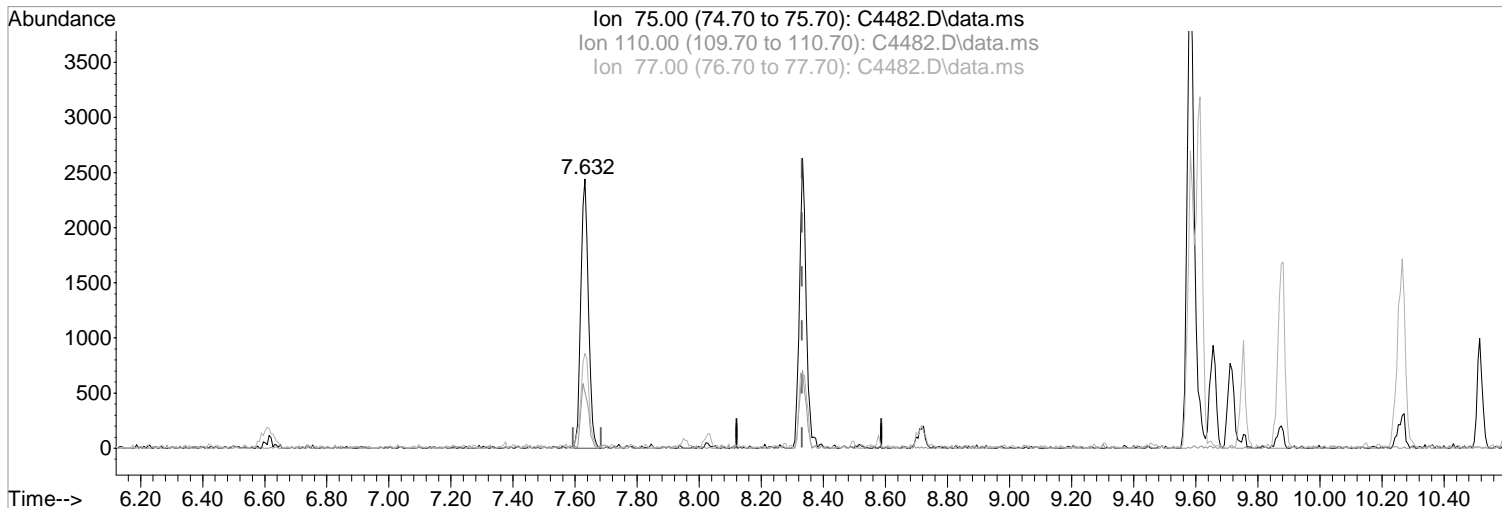
Ion	Exp%	Act%
41.10	100	100
39.10	50.80	41.44
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:46:44 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 1.27 ug/L m

response 4136

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	20.86
77.00	30.20	35.20
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	265204	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	381806	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	337410	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	182844	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) surr4,Dibrflmethane	4.541	113	26275	10.75	ug/L	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.50%#	
47) surr1,1,2-dichloroetha...	5.120	65	33143	10.69	ug/L	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	21.38%#	
64) SURR3,Toluene-d8	7.949	98	101608	10.89	ug/L	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	21.78%#	
69) SURR2,BFB	10.735	95	39799	10.60	ug/L	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	21.20%#	
<b>Target Compounds</b>							
							<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	3435	1.13	ug/L		96
3) Chloromethane	1.151	50	4262	1.34	ug/L		98
4) Vinyl Chloride	1.212	62	3390	1.21	ug/L		98
5) Bromomethane	1.407	94	2948	1.36	ug/L		87
6) Chloroethane	1.481	64	1959	1.05	ug/L		95
7) Freon 21	1.602	67	5346	1.17	ug/L		96
8) Trichlorofluoromethane	1.645	101	3916	1.14	ug/L		94
9) Diethyl Ether	1.846	59	2213	1.03	ug/L		91
10) Freon 123a	1.846	67	3157	1.11	ug/L		99
11) Freon 123	1.895	83	3531	1.11	ug/L		93
12) Acrolein	1.932	56	3498	5.69	ug/L		86
13) 1,1-Dicethene	2.011	96	2316	1.09	ug/L		90
14) Freon 113	2.011	101	2323	1.09	ug/L		90
15) Acetone	2.048	43	2283	1.38	ug/L		74
16) 2-Propanol	2.163	45	6161	26.98	ug/L		93
17) Iodomethane	2.121	142	969	0.45	ug/L		78
18) Carbon Disulfide	2.176	76	6623	1.25	ug/L		94
19) Acetonitrile	2.261	40	1792m	7.50	ug/L		
20) Allyl Chloride	2.291	76	1143	1.22	ug/L	#	88
21) Methyl Acetate	2.310	43	2996	1.15	ug/L		97
22) Methylene Chloride	2.395	84	2624	1.06	ug/L	#	83
23) TBA	2.505	59	10527	27.35	ug/L		84
24) Acrylonitrile	2.608	53	6715	5.27	ug/L		93
25) Methyl-t-Butyl Ether	2.657	73	9057	1.22	ug/L		97
26) trans-1,2-Dichloroethene	2.645	96	2621	1.12	ug/L		85
27) 1,1-Dicethane	3.072	63	4798	1.12	ug/L		96
28) Vinyl Acetate	3.145	86	493m	1.07	ug/L		
29) DIPE	3.181	45	8856	1.13	ug/L		93
30) 2-Chloro-1,3-Butadiene	3.175	53	4236	1.12	ug/L		100
31) ETBE	3.639	59	8840	1.27	ug/L		94
32) 2,2-Dichloropropane	3.779	77	4065	1.36	ug/L		93
33) cis-1,2-Dichloroethene	3.785	96	3155	1.14	ug/L	#	80
34) 2-Butanone	3.834	43	2521	1.23	ug/L		91
35) Propionitrile	3.895	54	3131	5.86	ug/L		92
36) Bromochloromethane	4.126	130	1760	1.02	ug/L	#	88
37) Methacrylonitrile	4.132	67	1413	1.10	ug/L	#	79
38) Tetrahydrofuran	4.230	42	1559	1.34	ug/L		90
39) Chloroform	4.279	83	4825	1.09	ug/L		96
40) 1,1,1-Trichloroethane	4.553	97	4607	1.31	ug/L		90

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.522	73	8801	1.33	ug/L	96
43) Cyclohexane	4.638	41	2768m	1.08	ug/L	
45) Carbontetrachloride	4.846	117	3641	1.29	ug/L	99
46) 1,1-Dichloropropene	4.852	75	3686	1.10	ug/L	95
48) Benzene	5.224	78	10555	1.10	ug/L	95
49) 1,2-Dichloroethane	5.266	62	4048	1.04	ug/L	88
50) Iso-Butyl Alcohol	5.266	43	4630	26.19	ug/L	98
51) n-Heptane	5.809	43	3519	1.17	ug/L	87
52) 1-Butanol	6.370	56	6132	64.36	ug/L	100
53) Trichloroethene	6.309	130	3014	1.10	ug/L	89
54) Methylcyclohexane	6.565	55	3437	1.09	ug/L	92
55) 1,2-Diclpropane	6.614	63	2891	1.15	ug/L	92
56) Dibromomethane	6.772	93	1863	1.07	ug/L	93
57) 1,4-Dioxane	6.864	88	1380	26.46	ug/L	80
58) Methyl Methacrylate	6.894	69	2488	1.17	ug/L #	84
59) Bromodichloromethane	7.028	83	3485	1.14	ug/L	95
60) 2-Nitropropane	7.339	41	2026	2.96	ug/L	84
61) 2-Chloroethylvinyl Ether	7.498	63	976	1.66	ug/L	99
62) cis-1,3-Dichloropropene	8.333	75	3814	1.17	ug/L	94
63) 4-Methyl-2-pentanone	7.863	43	3550	1.11	ug/L	99
65) Toluene	8.028	91	11362	1.06	ug/L	95
66) trans-1,3-Dichloropropene	8.333	75	3814	1.17	ug/L	94
67) Ethyl Methacrylate	8.510	69	4088	1.18	ug/L	98
68) 1,1,2-Trichloroethane	8.534	97	2459	0.96	ug/L	94
71) Tetrachloroethene	8.674	164	2388	1.08	ug/L	93
72) 2-Hexanone	8.875	43	2924	1.24	ug/L	91
73) 1,3-Dichloropropane	8.717	76	4652	1.09	ug/L	89
74) Dibromochloromethane	8.967	129	2690	1.11	ug/L	98
75) N-Butyl Acetate	9.058	43	5950	1.30	ug/L	96
76) 1,2-Dibromoethane	9.064	107	2860	1.13	ug/L	99
77) 3-Chlorobenzotrifluoride	9.656	180	4515	1.11	ug/L #	82
78) Chlorobenzene	9.613	112	7428	1.06	ug/L	96
79) 4-Chlorobenzotrifluoride	9.717	180	4115	1.12	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.711	131	2626	1.13	ug/L	92
81) Ethylbenzene	9.753	106	3908	1.06	ug/L	99
82) (m+p)Xylene	9.875	106	9812	2.15	ug/L	92
83) o-Xylene	10.253	106	4711	1.05	ug/L	93
84) Styrene	10.272	104	7930	1.07	ug/L	89
85) Bromoform	10.418	173	2114	1.23	ug/L	95
86) 2-Chlorobenzotrifluoride	10.521	180	4217	1.05	ug/L	91
87) Isopropylbenzene	10.613	105	12588	1.08	ug/L	98
88) Cyclohexanone	10.662	55	13799	23.13	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	1105	1.30	ug/L	88
91) 1,1,2,2-Tetrachloroethane	10.887	83	3960	1.17	ug/L	96
92) Bromobenzene	10.857	156	3348	1.12	ug/L #	86
93) 1,2,3-Trichloropropane	10.906	110	1385	1.19	ug/L	90
94) n-Propylbenzene	10.985	91	14318	1.13	ug/L	99
95) 2-Chlorotoluene	11.040	91	8714	1.14	ug/L	99
96) 3-Chlorotoluene	11.095	91	9414	1.20	ug/L	97
97) 4-Chlorotoluene	11.137	91	10045	1.11	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	10100	1.13	ug/L	97
99) tert-Butylbenzene	11.424	119	9364	1.18	ug/L	95
100) 1,2,4-Trimethylbenzene	11.466	105	10471	1.15	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	3411	1.05	ug/L	93
102) sec-Butylbenzene	11.613	105	13210	1.14	ug/L	97
103) p-Isopropyltoluene	11.741	119	11005	1.09	ug/L	91

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	5930	1.02	ug/L	94
105) 1,4-Dclbenz	11.759	146	6477	1.07	ug/L	79
106) 2,4-Dichlorobenzotrifl...	11.832	214	3234	1.09	ug/L	93
107) 2,5-Dichlorobenzotrifl...	11.875	214	3879	1.17	ug/L	93
108) n-Butylbenzene	12.082	91	9747	1.09	ug/L	96
109) 1,2-Dclbenz	12.070	146	6206	1.10	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.704	157	1032	1.34	ug/L #	79
111) Trielution Dichlorotol...	12.832	125	16965	3.67	ug/L	98
112) 1,3,5-Trichlorobenzene	12.881	180	5004	1.16	ug/L	97
113) Coelution Dichlorotoluene	13.155	125	11790	2.32	ug/L	91
114) 1,2,4-Tcbenzene	13.368	180	4598	1.11	ug/L	96
115) Hexachlorobt	13.515	225	2127	1.13	ug/L	91
116) Naphthalen	13.557	128	13241	1.21	ug/L	96
117) 1,2,3-Tclbenzene	13.746	180	4537	1.10	ug/L	91
118) 2,4,5-Trichlorotoluene	14.338	159	3391	1.32	ug/L	91
119) 2,3,6-Trichlorotoluene	14.423	159	3267	1.38	ug/L	97

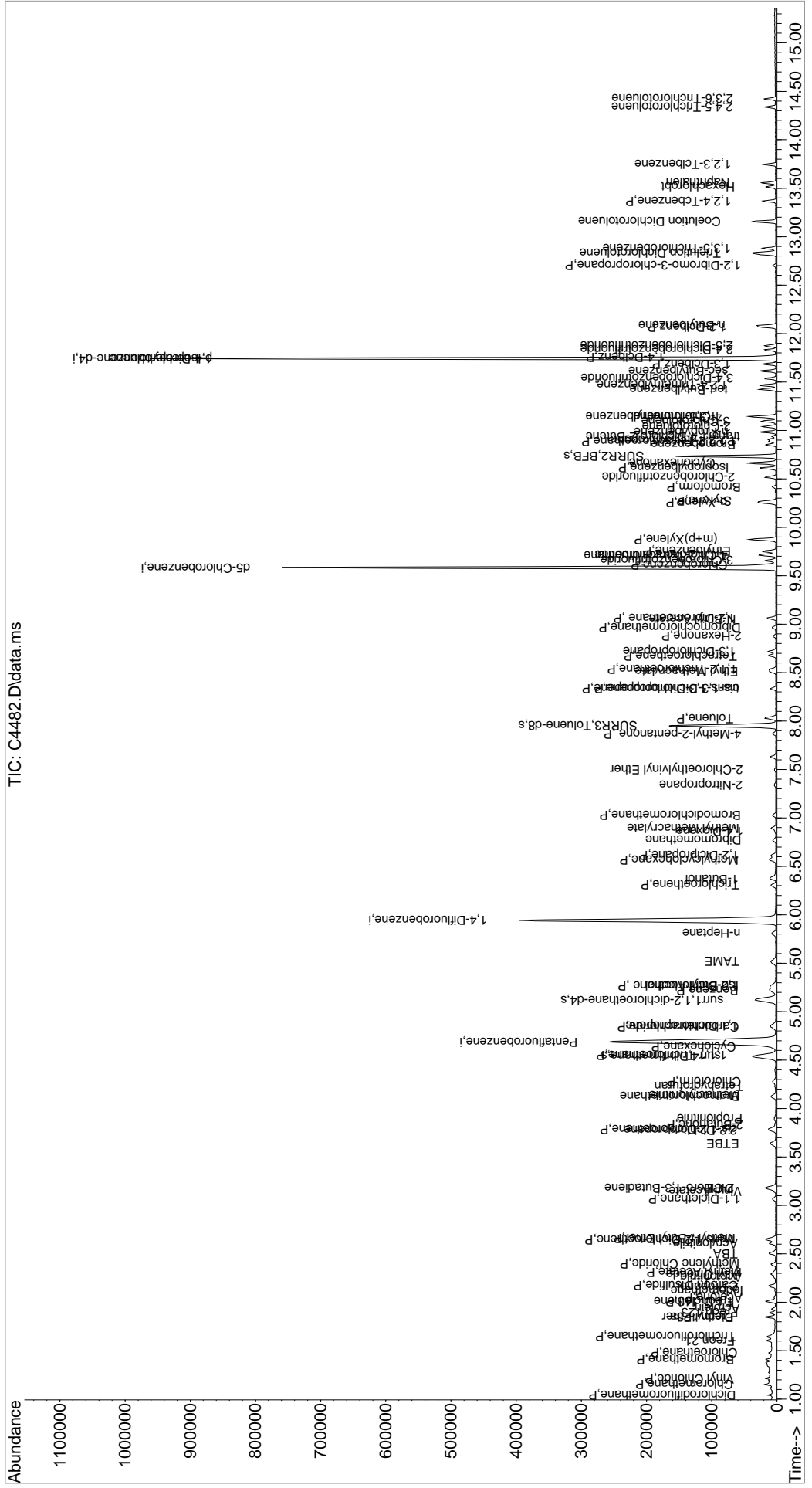
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

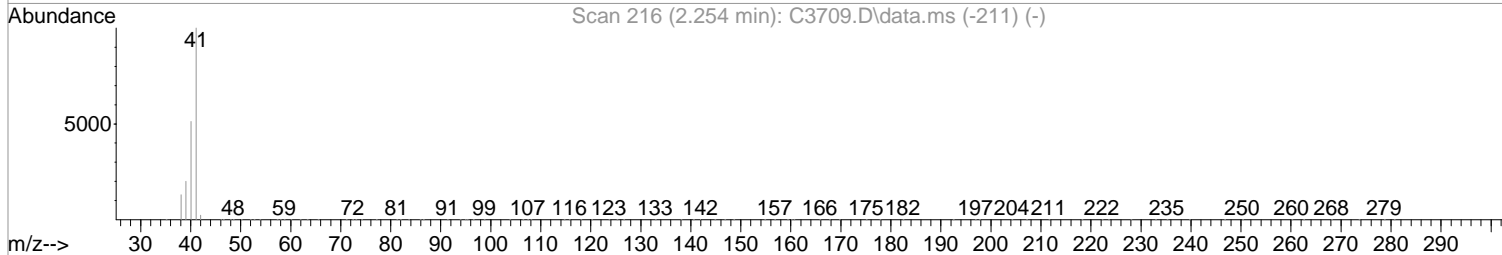
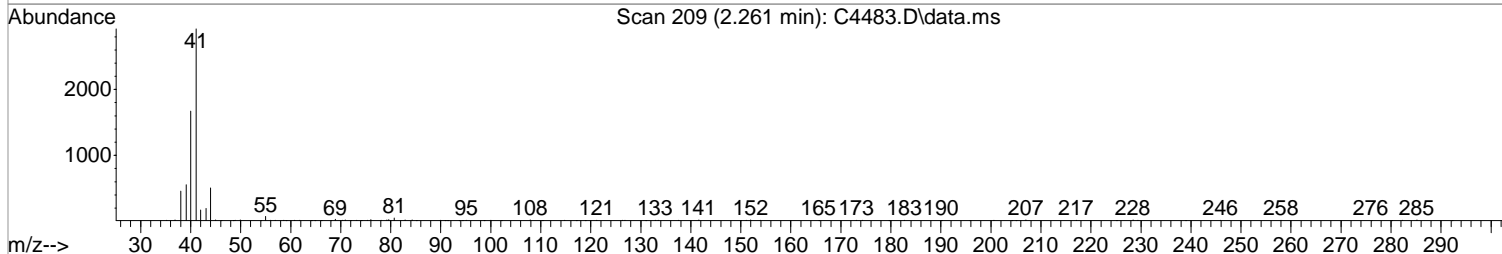
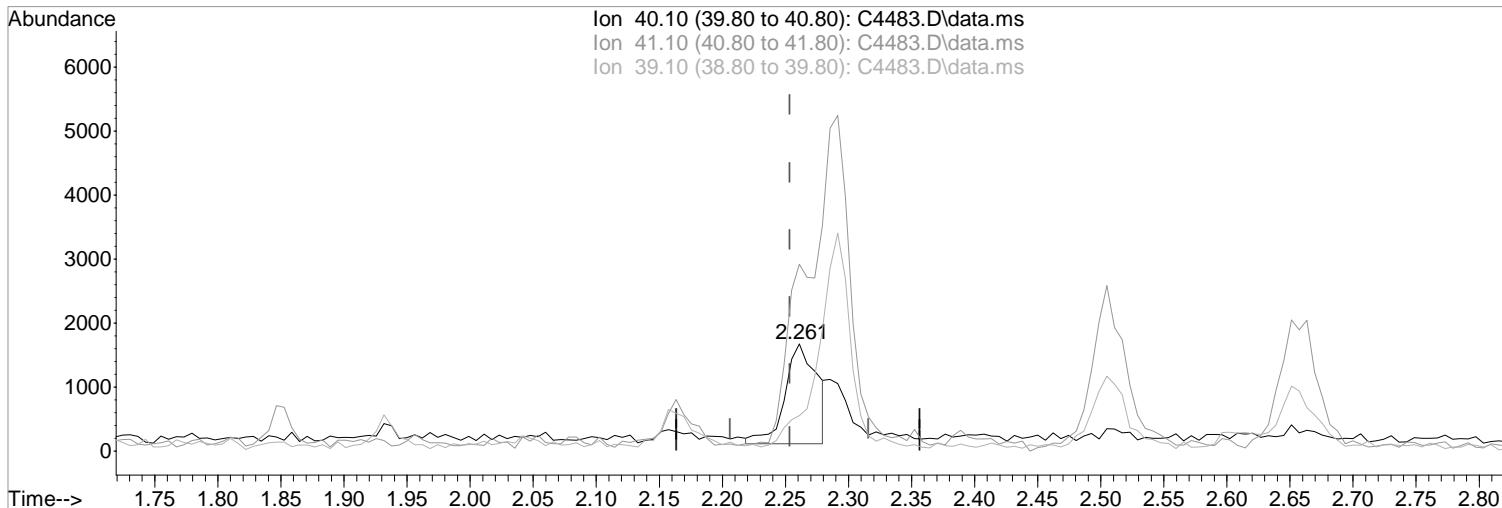


1st FU 01/24/18  
 2nd R 01/24/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:38:45 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.007) 12.36 ug/L m  
response 2771

Manual Integration:

After

Poor integration.

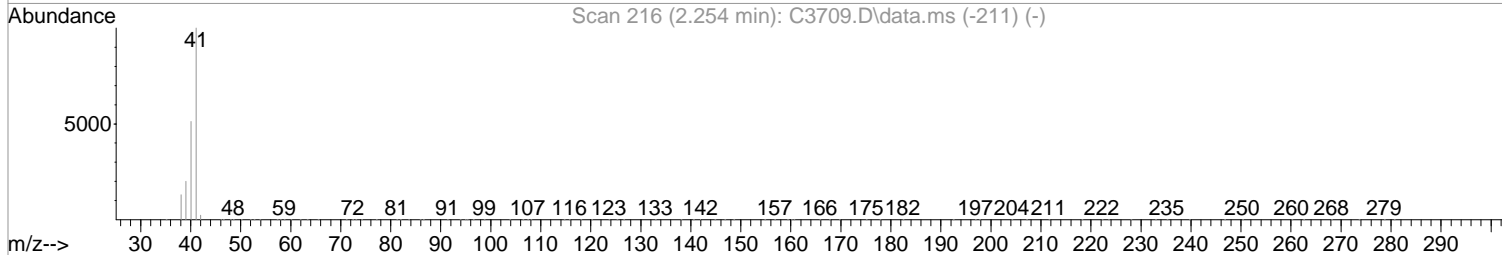
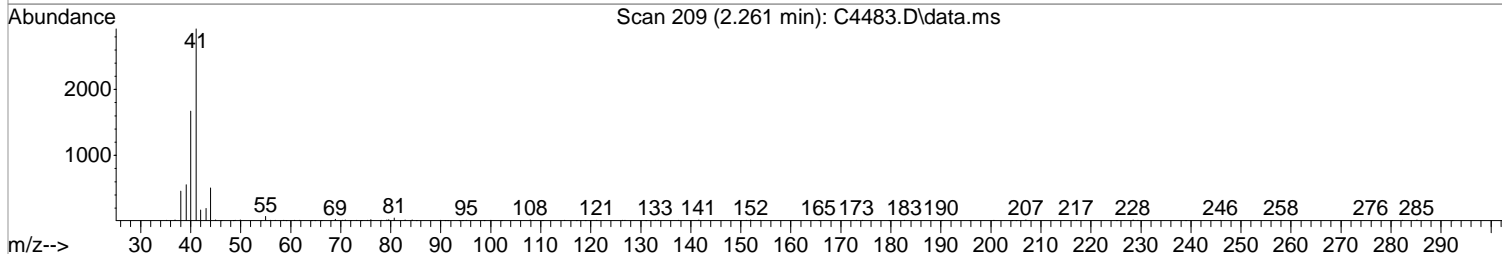
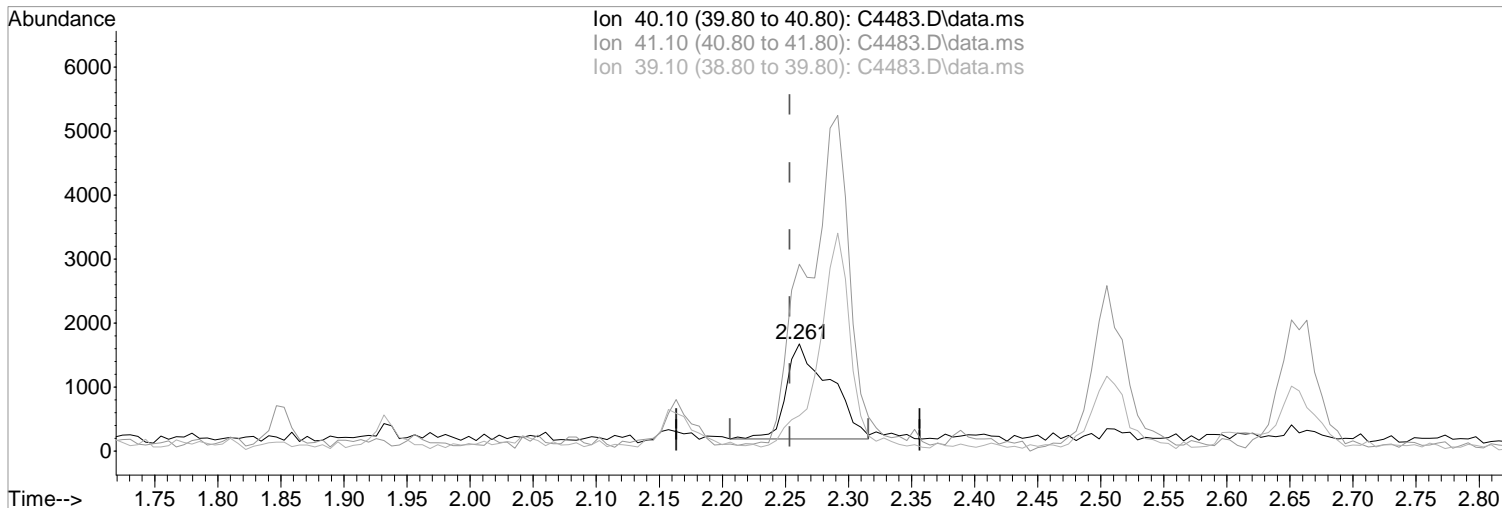
01/23/18

Ion	Exp%	Act%
40.10	100	100
41.10	193.90	174.48
39.10	39.50	33.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:38:45 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.007) 15.93 ug/L  
response 3571

Manual Integration:  
Before

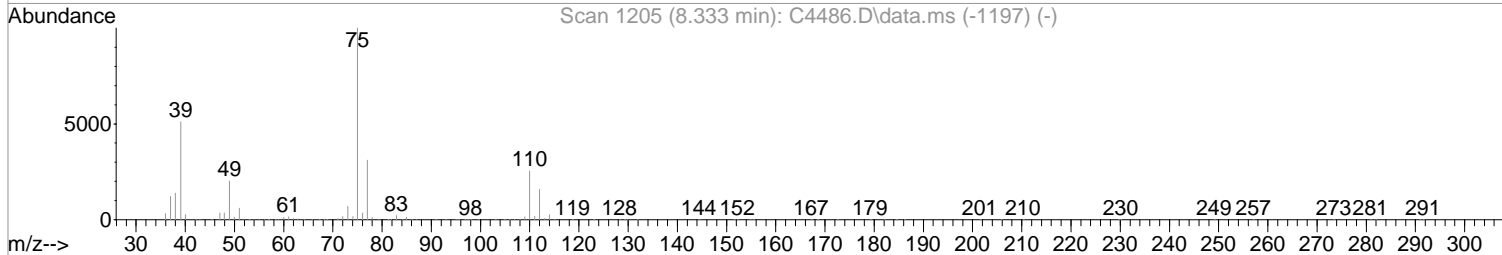
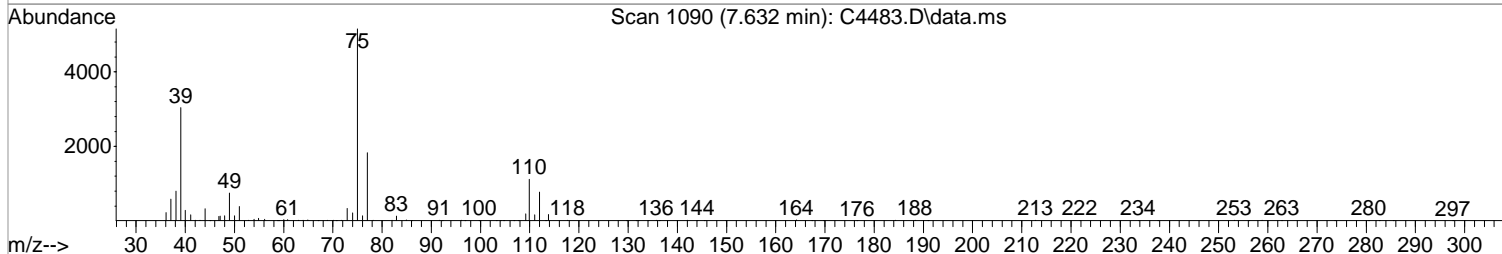
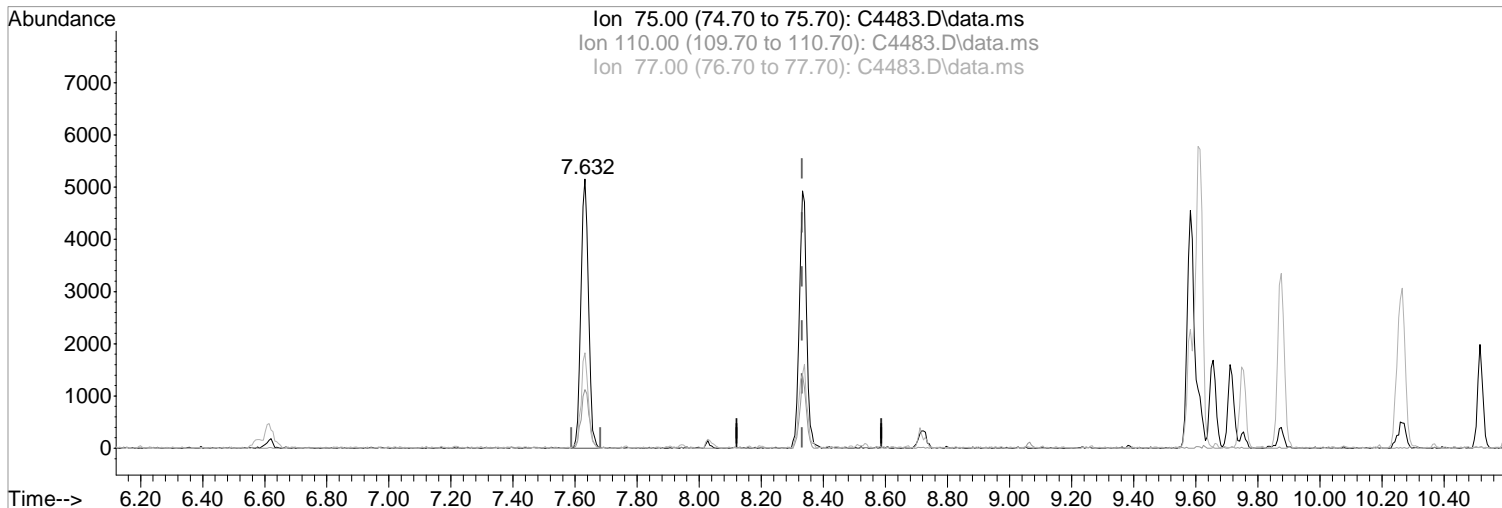
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	174.48
39.10	39.50	33.11
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:47:13 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 2.59 ug/L m  
 response 8723

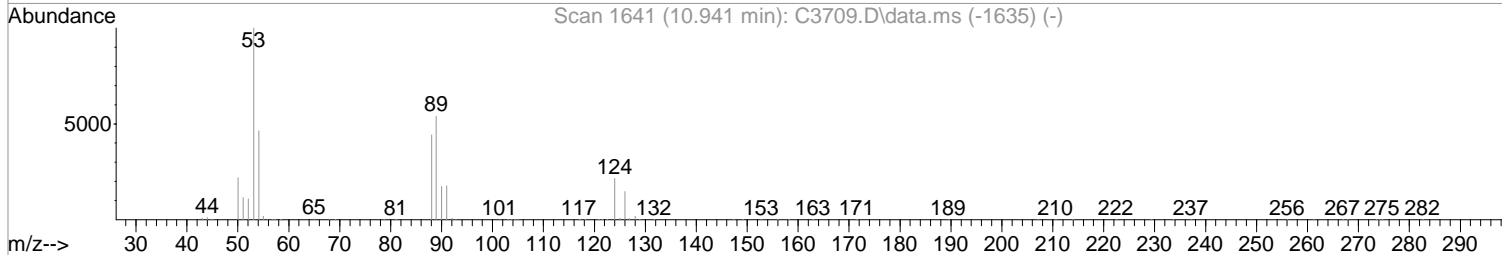
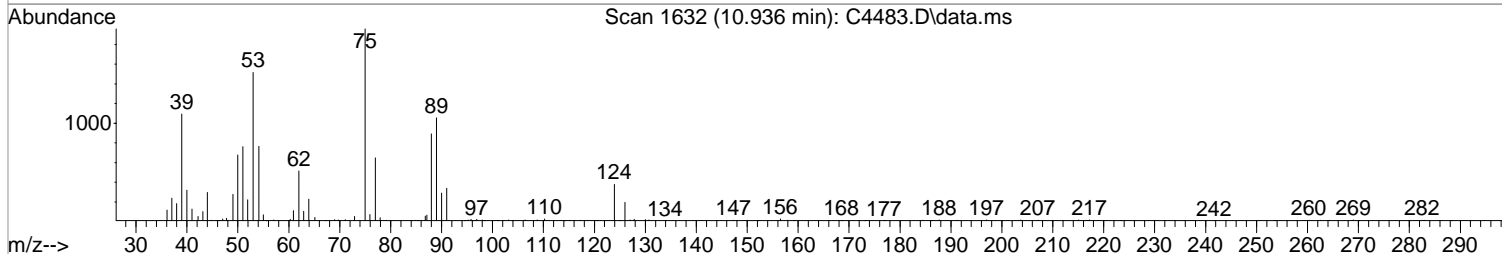
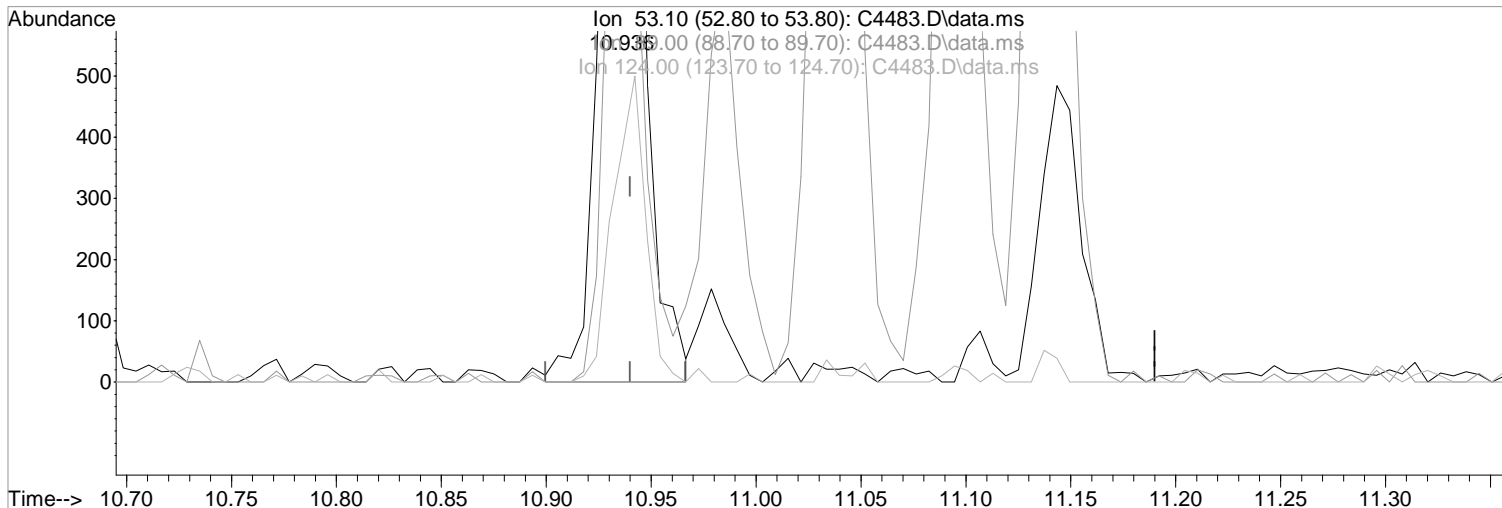
Manual Integration:  
 After  
 Wrong peak selected.  
 02/07/18

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	21.76
77.00	30.20	35.46
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:07:21 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



TIC: C4483.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

10.936min (-0.004) 2.24 ug/L m  
response 1971

Ion	Exp%	Act%
53.10	100	100
89.00	54.10	69.41
124.00	21.50	24.92
0.00	0.00	0.00

Manual Integration:

After

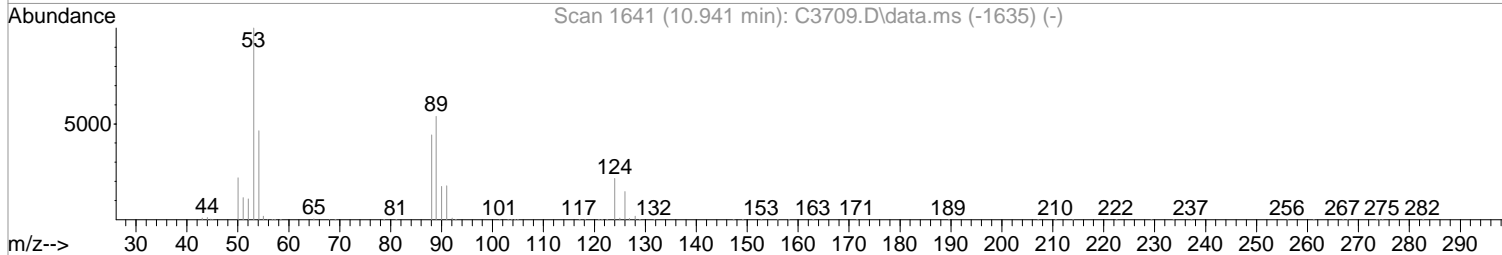
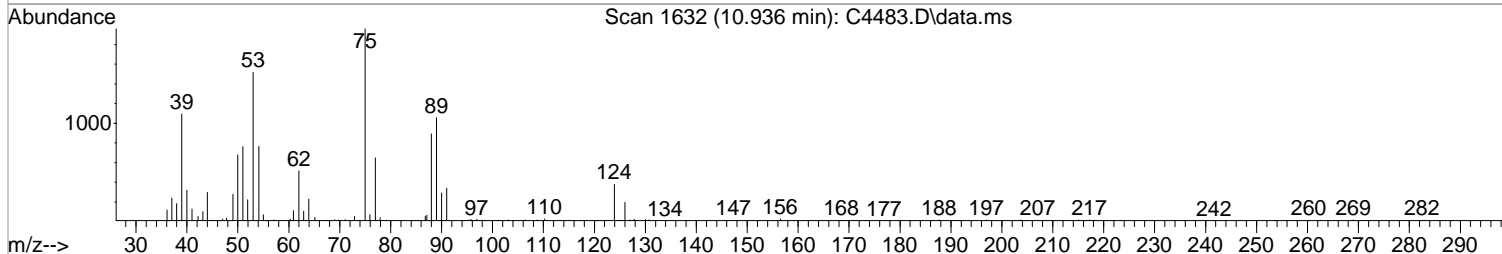
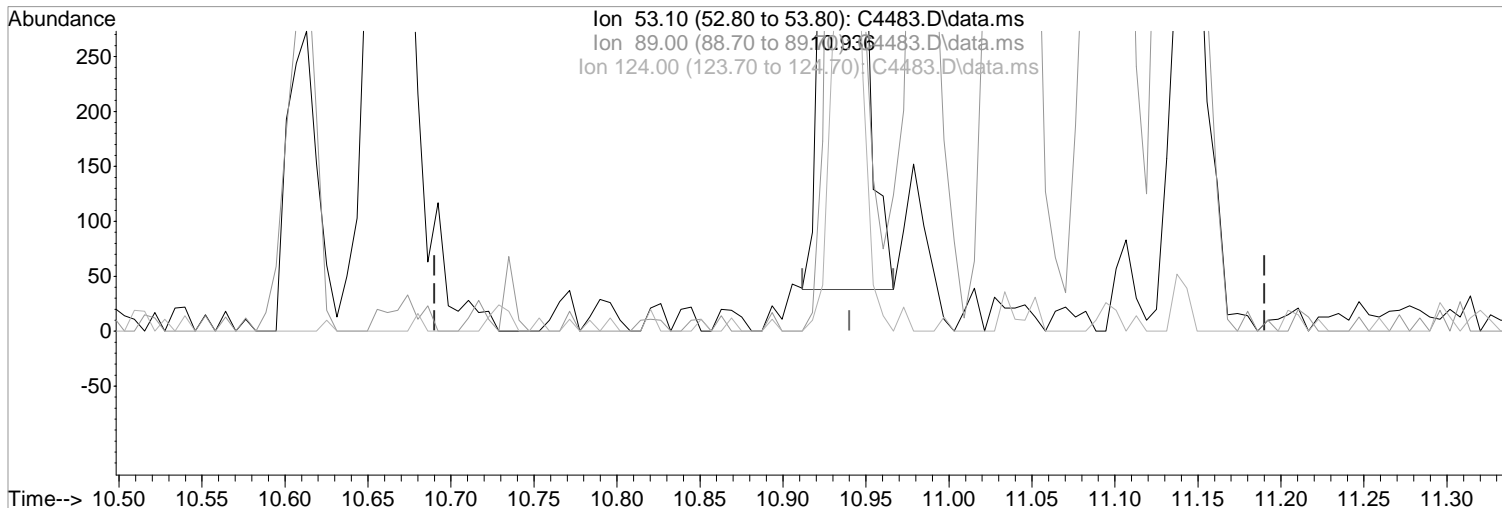
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:39:17 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



TIC: C4483.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

Manual Integration:

10.936min (-0.004) 2.06 ug/L

Before

response 1816

Ion	Exp%	Act%
53.10	100	100
89.00	54.10	69.41
124.00	21.50	24.92
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	257199	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	374447	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	326919	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	180182	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.529	113	26117	10.90	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.80%#
47) surr1,1,2-dichloroetha...	5.126	65	33501	11.02	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.04%#
64) SURR3,Toluene-d8	7.955	98	101730	11.12	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	22.24%#
69) SURR2,BFB	10.735	95	40697	11.05	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.10%#
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	6479	2.18	ug/L	94
3) Chloromethane	1.151	50	8419	2.65	ug/L	100
4) Vinyl Chloride	1.212	62	6115	2.21	ug/L	96
5) Bromomethane	1.407	94	5153	2.40	ug/L	87
6) Chloroethane	1.474	64	3480	1.90	ug/L	99
7) Freon 21	1.603	67	10788	2.39	ug/L	100
8) Trichlorofluoromethane	1.645	101	7796	2.33	ug/L	98
9) Diethyl Ether	1.846	59	4666	2.25	ug/L	98
10) Freon 123a	1.846	67	5880	2.12	ug/L	93
11) Freon 123	1.895	83	6995	2.25	ug/L	98
12) Acrolein	1.932	56	6603	10.87	ug/L	93
13) 1,1-Dicethene	2.011	96	4621	2.23	ug/L	90
14) Freon 113	2.011	101	4613	2.23	ug/L	82
15) Acetone	2.048	43	3786	2.25	ug/L	95
16) 2-Propanol	2.163	45	12638	53.51	ug/L	88
17) Iodomethane	2.121	142	1554	0.80	ug/L	95
18) Carbon Disulfide	2.176	76	12942	2.38	ug/L	97
19) Acetonitrile	2.261	40	2771m	12.36	ug/L	
20) Allyl Chloride	2.291	76	2425	2.59	ug/L #	89
21) Methyl Acetate	2.316	43	6387	2.47	ug/L	96
22) Methylene Chloride	2.395	84	5778	2.40	ug/L #	83
23) TBA	2.511	59	21472	55.26	ug/L	79
24) Acrylonitrile	2.608	53	13247	10.51	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	17938	2.42	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	5154	2.26	ug/L	95
27) 1,1-Dicethane	3.066	63	9256	2.21	ug/L	97
28) Vinyl Acetate	3.145	86	1014	2.18	ug/L #	61
29) DIPE	3.181	45	18361	2.36	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	7891	2.10	ug/L	93
31) ETBE	3.639	59	17727	2.51	ug/L	97
32) 2,2-Dichloropropane	3.785	77	8280	2.71	ug/L	96
33) cis-1,2-Dichloroethene	3.791	96	5969	2.19	ug/L	95
34) 2-Butanone	3.828	43	4143	2.03	ug/L	90
35) Propionitrile	3.901	54	6236	11.66	ug/L	97
36) Bromochloromethane	4.126	130	3836	2.28	ug/L #	77
37) Methacrylonitrile	4.126	67	2879	2.25	ug/L #	76
38) Tetrahydrofuran	4.212	42	2683	2.30	ug/L	95
39) Chloroform	4.273	83	9506	2.20	ug/L	93
40) 1,1,1-Trichloroethane	4.547	97	8197	2.31	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	17774	2.63	ug/L	92
43) Cyclohexane	4.639	41	5462	2.16	ug/L	83
45) Carbontetrachloride	4.846	117	6642	2.28	ug/L #	81
46) 1,1-Dichloropropene	4.852	75	7083	2.13	ug/L	96
48) Benzene	5.224	78	20227	2.13	ug/L	96
49) 1,2-Dichloroethane	5.266	62	8238	2.15	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	9375	52.27	ug/L	99
51) n-Heptane	5.803	43	6840	2.29	ug/L	95
52) 1-Butanol	6.376	56	12890	128.03	ug/L	97
53) Trichloroethene	6.309	130	5827	2.18	ug/L	95
54) Methylcyclohexane	6.565	55	6819	2.19	ug/L #	82
55) 1,2-Diclpropane	6.614	63	5416	2.15	ug/L	96
56) Dibromomethane	6.772	93	3606	2.07	ug/L	93
57) 1,4-Dioxane	6.858	88	2402	44.81	ug/L	94
58) Methyl Methacrylate	6.900	69	4803	2.23	ug/L	86
59) Bromodichloromethane	7.028	83	6833	2.21	ug/L	98
60) 2-Nitropropane	7.339	41	3738	5.13	ug/L	99
61) 2-Chloroethylvinyl Ether	7.498	63	1907	2.95	ug/L	94
62) cis-1,3-Dichloropropene	8.333	75	7884	2.34	ug/L	96
63) 4-Methyl-2-pentanone	7.870	43	7560	2.34	ug/L	87
65) Toluene	8.028	91	22306	2.12	ug/L	94
66) trans-1,3-Dichloropropene	8.333	75	7884	2.34	ug/L	96
67) Ethyl Methacrylate	8.510	69	8180	2.31	ug/L	92
68) 1,1,2-Trichloroethane	8.534	97	5211	2.08	ug/L	97
71) Tetrachloroethene	8.674	164	4850	2.28	ug/L	91
72) 2-Hexanone	8.876	43	5875	2.45	ug/L	98
73) 1,3-Dichloropropane	8.717	76	9364	2.24	ug/L	96
74) Dibromochloromethane	8.967	129	5491	2.27	ug/L	98
75) N-Butyl Acetate	9.058	43	11773	2.51	ug/L	97
76) 1,2-Dibromoethane	9.064	107	5093	2.02	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	8745	2.19	ug/L	87
78) Chlorobenzene	9.613	112	15221	2.23	ug/L	97
79) 4-Chlorobenzotrifluoride	9.717	180	8237	2.29	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.711	131	5533	2.38	ug/L	94
81) Ethylbenzene	9.753	106	7309	2.03	ug/L	91
82) (m+p)Xylene	9.875	106	19666	4.40	ug/L	99
83) o-Xylene	10.253	106	9611	2.19	ug/L #	87
84) Styrene	10.265	104	15730	2.13	ug/L	96
85) Bromoform	10.418	173	3628	2.06	ug/L	95
86) 2-Chlorobenzotrifluoride	10.522	180	8642	2.20	ug/L	93
87) Isopropylbenzene	10.613	105	24773	2.15	ug/L	99
88) Cyclohexanone	10.662	55	27876	45.83	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	1971m	2.24	ug/L	
91) 1,1,2,2-Tetrachloroethane	10.887	83	8000	2.31	ug/L	97
92) Bromobenzene	10.851	156	6739	2.25	ug/L #	82
93) 1,2,3-Trichloropropane	10.906	110	2692	2.28	ug/L	92
94) n-Propylbenzene	10.985	91	27758	2.19	ug/L	97
95) 2-Chlorotoluene	11.040	91	17475	2.29	ug/L	100
96) 3-Chlorotoluene	11.095	91	18574	2.33	ug/L	99
97) 4-Chlorotoluene	11.137	91	20086	2.23	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	20738	2.30	ug/L	92
99) tert-Butylbenzene	11.424	119	18466	2.29	ug/L	96
100) 1,2,4-Trimethylbenzene	11.466	105	20558	2.23	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	6957	2.18	ug/L	97
102) sec-Butylbenzene	11.613	105	25123	2.15	ug/L	96
103) p-Isopropyltoluene	11.741	119	22434	2.24	ug/L	97



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration

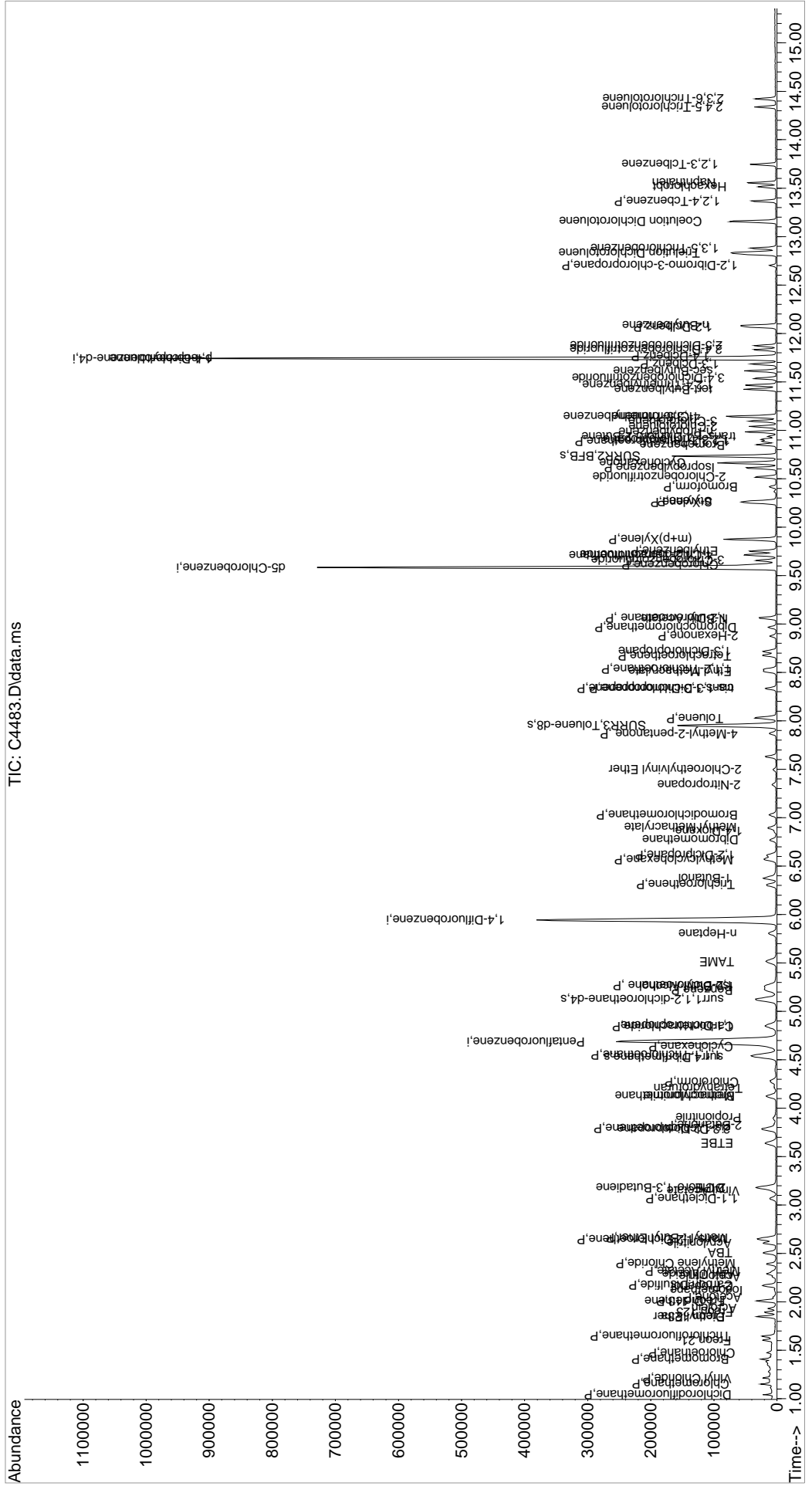
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	12443	2.19	ug/L	94
105) 1,4-Dclbenz	11.765	146	13354	2.23	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	6346	2.16	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.875	214	7092	2.15	ug/L	97
108) n-Butylbenzene	12.082	91	19111	2.13	ug/L	96
109) 1,2-Dclbenz	12.070	146	12402	2.21	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	1977	2.44	ug/L	93
111) Trielution Dichlorotol...	12.832	125	33355	7.09	ug/L	94
112) 1,3,5-Trichlorobenzene	12.881	180	9252	2.14	ug/L	91
113) Coelution Dichlorotoluene	13.161	125	23514	4.59	ug/L	98
114) 1,2,4-Tcbenzene	13.369	180	8820	2.12	ug/L	93
115) Hexachlorobt	13.515	225	4053	2.15	ug/L	95
116) Naphthalen	13.557	128	27605	2.47	ug/L	99
117) 1,2,3-Tclbenzene	13.746	180	9002	2.20	ug/L	95
118) 2,4,5-Trichlorotoluene	14.338	159	6447	2.41	ug/L	96
119) 2,3,6-Trichlorotoluene	14.423	159	5771	2.33	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

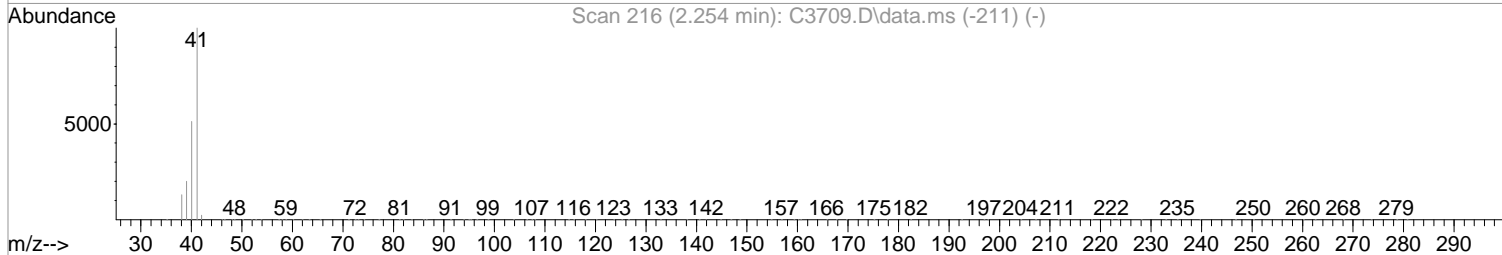
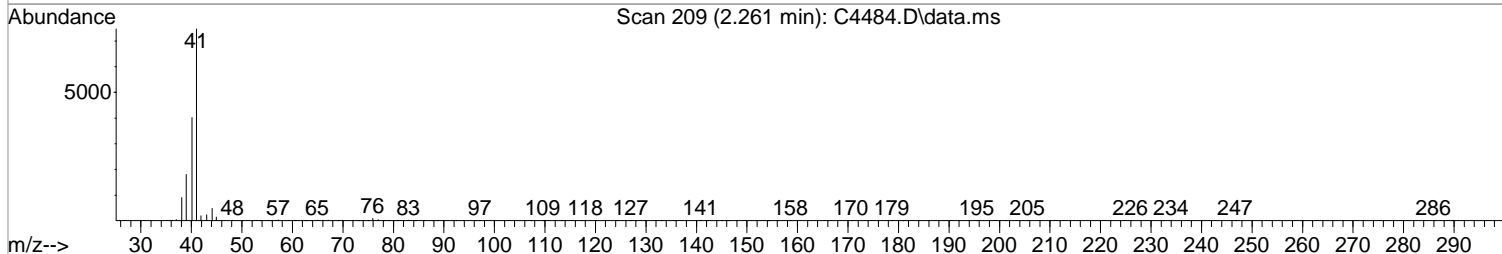
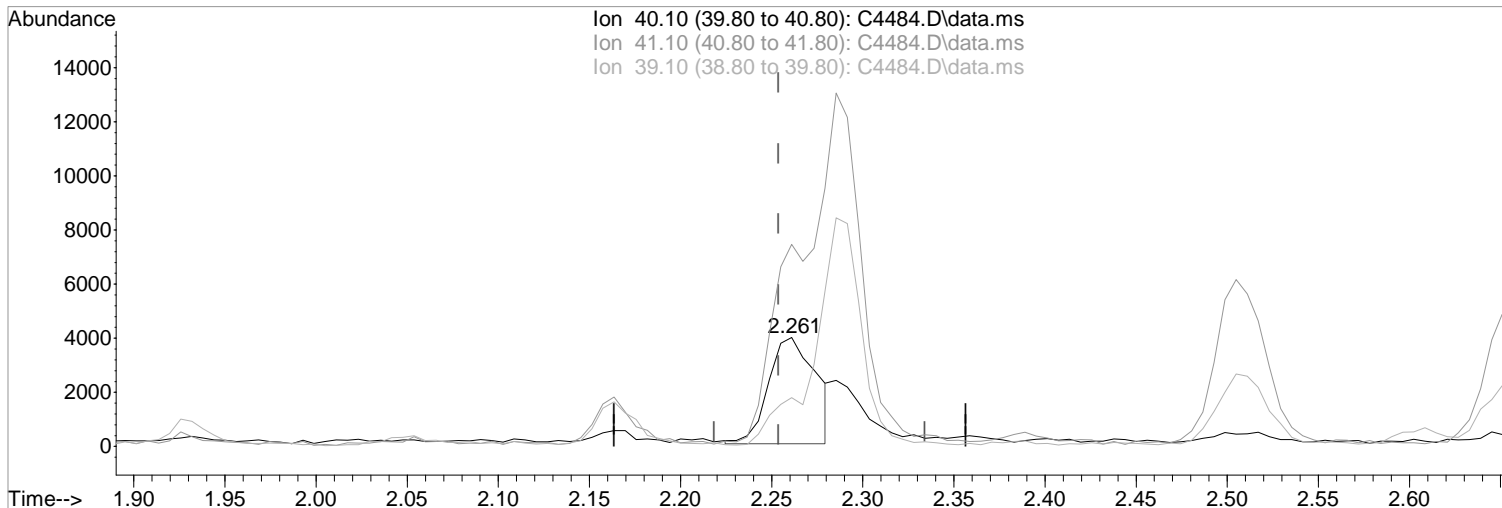
Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4484.D  
Acq On : 23 Jan 2018 12:34 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:49:10 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:40:28 2018  
Response via : Initial Calibration



TIC: C4484.D\data.ms

(19) Acetonitrile  
2.261min (+0.007) 30.60 ug/L m  
response 7102

Manual Integration:  
After  
Poor integration.

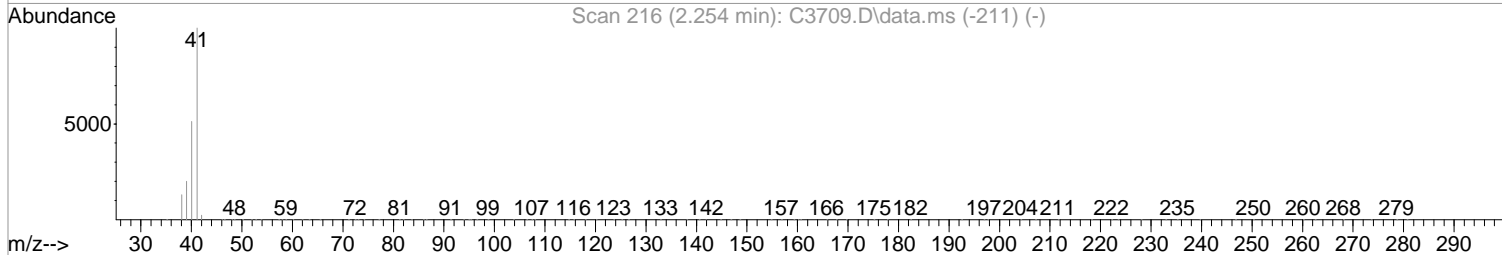
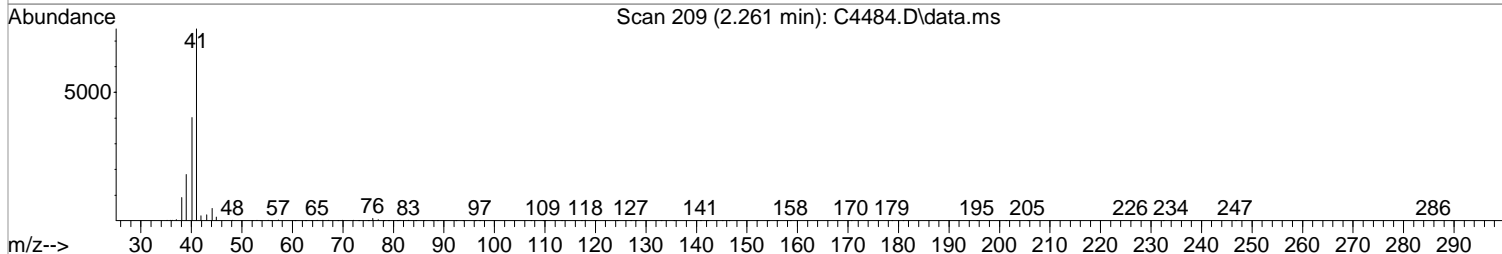
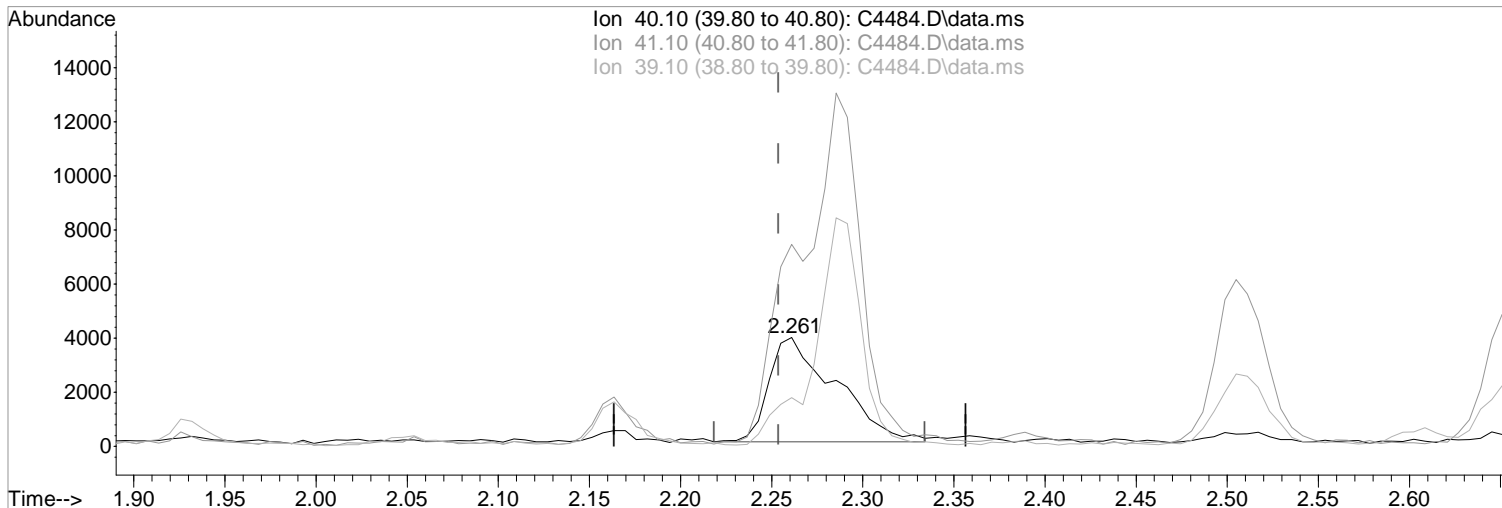
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	185.66
39.10	39.50	44.73
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4484.D  
Acq On : 23 Jan 2018 12:34 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:49:10 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:40:28 2018  
Response via : Initial Calibration



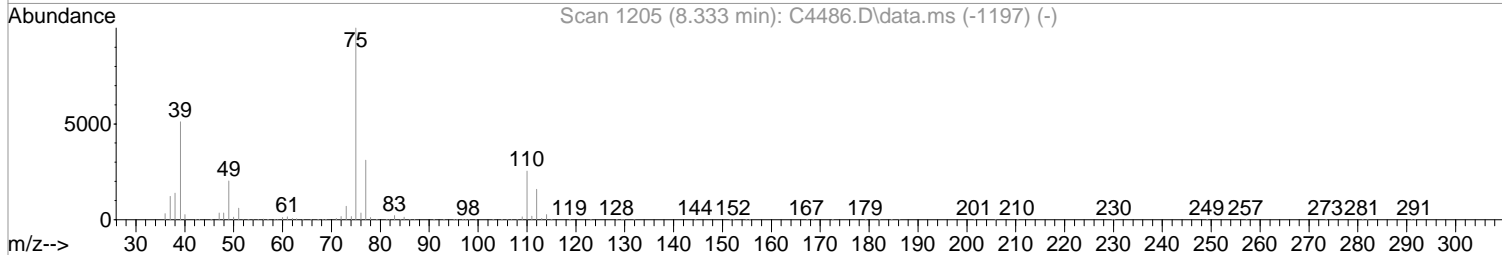
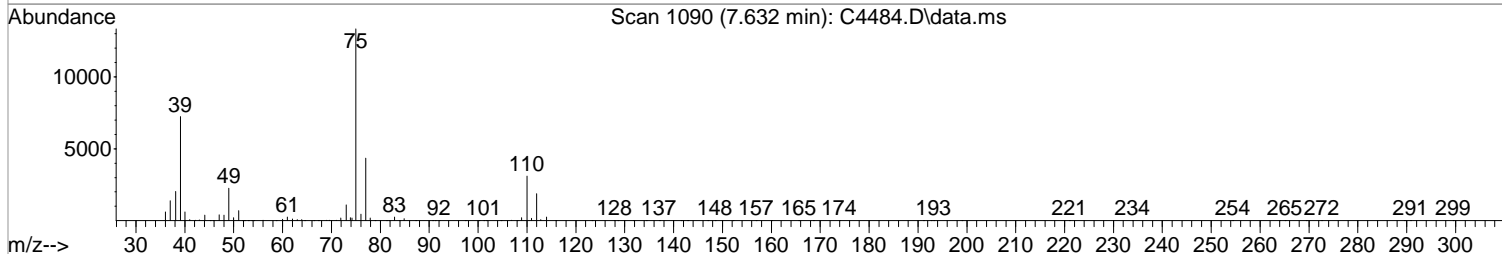
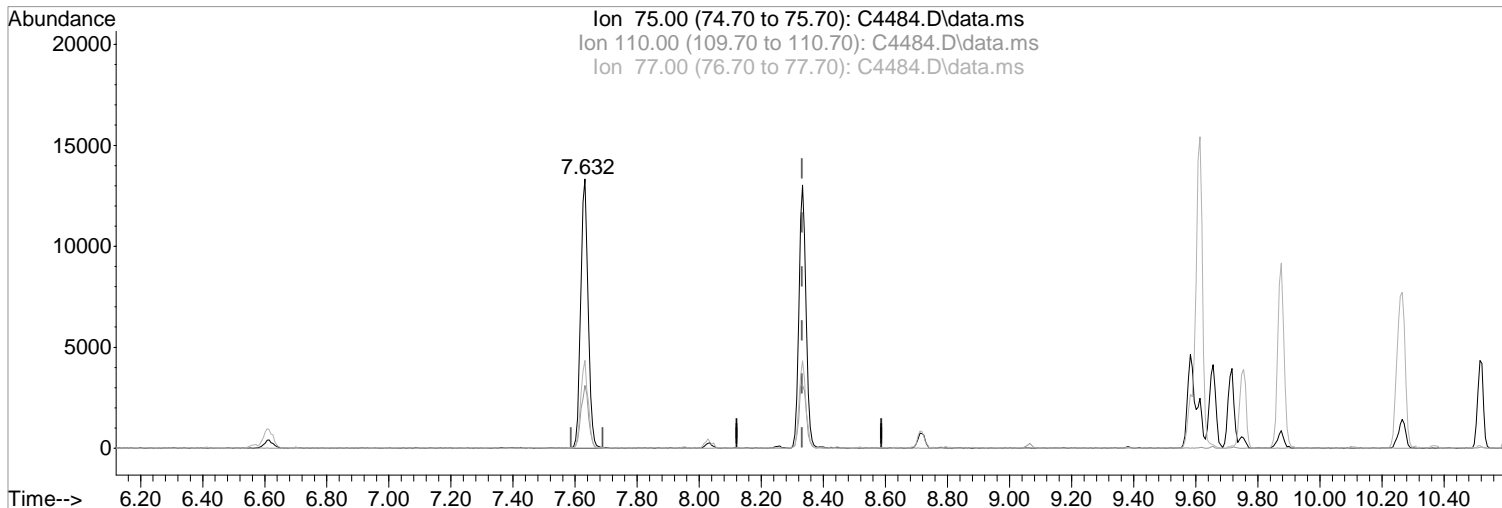
(19) Acetonitrile  
2.261min (+0.007) 42.48 ug/L  
response 9860  
Ion Exp% Act%  
40.10 100 100  
41.10 193.90 185.66  
39.10 39.50 44.73  
0.00 0.00 0.00

Manual Integration:  
Before  
01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:47:48 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 6.28 ug/L m  
 response 21975

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	23.26
77.00	30.20	32.60
0.00	0.00	0.00

Manual Integration:  
 After  
 Wrong peak selected.  
 02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	257267	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	370962	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	327172	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	182124	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	28110	11.84	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	23.68%#	
47) surr1,1,2-dichloroetha...	5.120	65	34332	11.40	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	22.80%#	
64) SURR3,Toluene-d8	7.949	98	104517	11.53	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	23.06%#	
69) SURR2,BFB	10.735	95	41870	11.47	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	22.94%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	15820	5.23	ug/L	98
3) Chloromethane	1.151	50	19038	5.74	ug/L	92
4) Vinyl Chloride	1.212	62	15525	5.51	ug/L	97
5) Bromomethane	1.401	94	9411	4.30	ug/L	94
6) Chloroethane	1.475	64	9263	5.14	ug/L	94
7) Freon 21	1.603	67	23963	5.21	ug/L	97
8) Trichlorofluoromethane	1.645	101	19060	5.59	ug/L	97
9) Diethyl Ether	1.846	59	11658	5.54	ug/L	91
10) Freon 123a	1.846	67	14934	5.37	ug/L	90
11) Freon 123	1.889	83	17209	5.46	ug/L	98
12) Acrolein	1.932	56	16509	26.58	ug/L	96
13) 1,1-Dicethene	2.005	96	11652	5.54	ug/L	95
14) Freon 113	2.011	101	11511	5.53	ug/L	100
15) Acetone	2.048	43	9587	5.62	ug/L	97
16) 2-Propanol	2.163	45	33159	131.01	ug/L	87
17) Iodomethane	2.121	142	3553	1.90	ug/L	85
18) Carbon Disulfide	2.170	76	33099	5.83	ug/L	97
19) Acetonitrile	2.261	40	7102m	30.60	ug/L	
20) Allyl Chloride	2.285	76	5501	5.63	ug/L	# 84
21) Methyl Acetate	2.310	43	14766	5.55	ug/L	95
22) Methylene Chloride	2.389	84	13196	5.35	ug/L	96
23) TBA	2.511	59	54844	132.27	ug/L	83
24) Acrylonitrile	2.608	53	35542	27.79	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	45550	5.93	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	12674	5.49	ug/L	98
27) 1,1-Dicethane	3.066	63	23280	5.51	ug/L	98
28) Vinyl Acetate	3.145	86	2904	5.96	ug/L	# 64
29) DIPE	3.182	45	43565	5.43	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	19726	5.18	ug/L	98
31) ETBE	3.639	59	44389	6.03	ug/L	96
32) 2,2-Dichloropropane	3.785	77	19945	6.19	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	14823	5.38	ug/L	97
34) 2-Butanone	3.828	43	10510	5.09	ug/L	91
35) Propionitrile	3.889	54	15370	27.84	ug/L	97
36) Bromochloromethane	4.120	130	9560	5.62	ug/L	97
37) Methacrylonitrile	4.127	67	7568	5.79	ug/L	# 84
38) Tetrahydrofuran	4.218	42	6666	5.56	ug/L	99
39) Chloroform	4.273	83	23285	5.31	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	21115	5.76	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	43370	6.08	ug/L	96
43) Cyclohexane	4.639	41	12966	5.13	ug/L	90
45) Carbontetrachloride	4.840	117	17336	5.81	ug/L	97
46) 1,1-Dichloropropene	4.852	75	17887	5.40	ug/L	96
48) Benzene	5.218	78	50121	5.28	ug/L	96
49) 1,2-Dichloroethane	5.260	62	20664	5.38	ug/L	98
50) Iso-Butyl Alcohol	5.267	43	23046	121.72	ug/L	97
51) n-Heptane	5.809	43	15780	5.24	ug/L	96
52) 1-Butanol	6.376	56	35302	328.60	ug/L	94
53) Trichloroethene	6.303	130	14353	5.42	ug/L	96
54) Methylcyclohexane	6.571	55	16968	5.46	ug/L	96
55) 1,2-Diclpropane	6.614	63	13734	5.43	ug/L	100
56) Dibromomethane	6.766	93	9087	5.22	ug/L	94
57) 1,4-Dioxane	6.858	88	6219	113.12	ug/L	99
58) Methyl Methacrylate	6.894	69	12335	5.58	ug/L	97
59) Bromodichloromethane	7.028	83	17361	5.50	ug/L	98
60) 2-Nitropropane	7.339	41	9568	12.30	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	5373	7.57	ug/L	93
62) cis-1,3-Dichloropropene	8.333	75	20214	5.77	ug/L	96
63) 4-Methyl-2-pentanone	7.870	43	17986	5.39	ug/L	95
65) Toluene	8.028	91	55133	5.25	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	20214	5.77	ug/L	96
67) Ethyl Methacrylate	8.504	69	20735	5.63	ug/L	92
68) 1,1,2-Trichloroethane	8.534	97	13392	5.32	ug/L	94
71) Tetrachloroethene	8.680	164	11471	5.34	ug/L	98
72) 2-Hexanone	8.876	43	14221	5.68	ug/L	96
73) 1,3-Dichloropropane	8.717	76	23001	5.44	ug/L	97
74) Dibromochloromethane	8.967	129	13418	5.28	ug/L	99
75) N-Butyl Acetate	9.058	43	29336	5.88	ug/L	97
76) 1,2-Dibromoethane	9.065	107	14324	5.60	ug/L	93
77) 3-Chlorobenzotrifluoride	9.656	180	21759	5.40	ug/L	95
78) Chlorobenzene	9.613	112	37358	5.42	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	19777	5.37	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.711	131	13723	5.71	ug/L	98
81) Ethylbenzene	9.753	106	20259	5.64	ug/L	95
82) (m+p)Xylene	9.875	106	49118	10.86	ug/L	97
83) o-Xylene	10.253	106	23748	5.34	ug/L	98
84) Styrene	10.266	104	40816	5.39	ug/L	97
85) Bromoform	10.418	173	9646	5.25	ug/L	98
86) 2-Chlorobenzotrifluoride	10.522	180	21499	5.34	ug/L	97
87) Isopropylbenzene	10.613	105	63290	5.40	ug/L	99
88) Cyclohexanone	10.662	55	73014	114.84	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	5240	5.74	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.887	83	19598	5.44	ug/L	97
92) Bromobenzene	10.851	156	16449	5.36	ug/L	# 85
93) 1,2,3-Trichloropropane	10.906	110	7007	5.79	ug/L	98
94) n-Propylbenzene	10.985	91	70907	5.45	ug/L	98
95) 2-Chlorotoluene	11.040	91	43325	5.52	ug/L	99
96) 3-Chlorotoluene	11.095	91	45641	5.52	ug/L	99
97) 4-Chlorotoluene	11.137	91	50576	5.45	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	52490	5.64	ug/L	98
99) tert-Butylbenzene	11.424	119	46840	5.64	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	51547	5.42	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.534	214	17298	5.30	ug/L	90
102) sec-Butylbenzene	11.613	105	66444	5.56	ug/L	98
103) p-Isopropyltoluene	11.741	119	57052	5.55	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	31191	5.35	ug/L	97
105) 1,4-Dclbenz	11.765	146	31930	5.23	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.832	214	15812	5.26	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.875	214	18375	5.47	ug/L	97
108) n-Butylbenzene	12.082	91	49324	5.37	ug/L	98
109) 1,2-Dclbenz	12.070	146	30026	5.23	ug/L	95
110) 1,2-Dibromo-3-chloropr...	12.704	157	5439	6.26	ug/L	94
111) Trielution Dichlorotol...	12.832	125	83948	17.19	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	24316	5.54	ug/L	97
113) Coelution Dichlorotoluene	13.155	125	61143	11.53	ug/L	96
114) 1,2,4-Tcbenzene	13.369	180	23789	5.61	ug/L	96
115) Hexachlorobt	13.515	225	10610	5.52	ug/L	98
116) Naphthalen	13.551	128	69437	5.91	ug/L	100
117) 1,2,3-Tclbenzene	13.747	180	23057	5.53	ug/L	96
118) 2,4,5-Trichlorotoluene	14.338	159	16733	5.98	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	15447	5.94	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

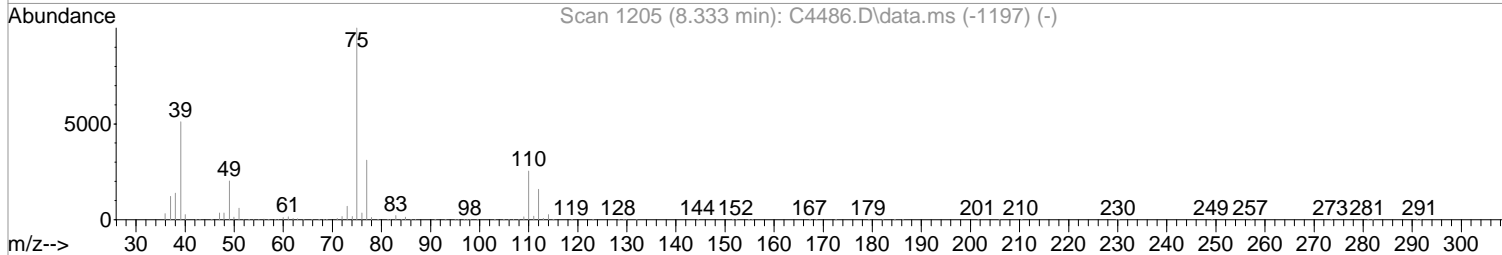
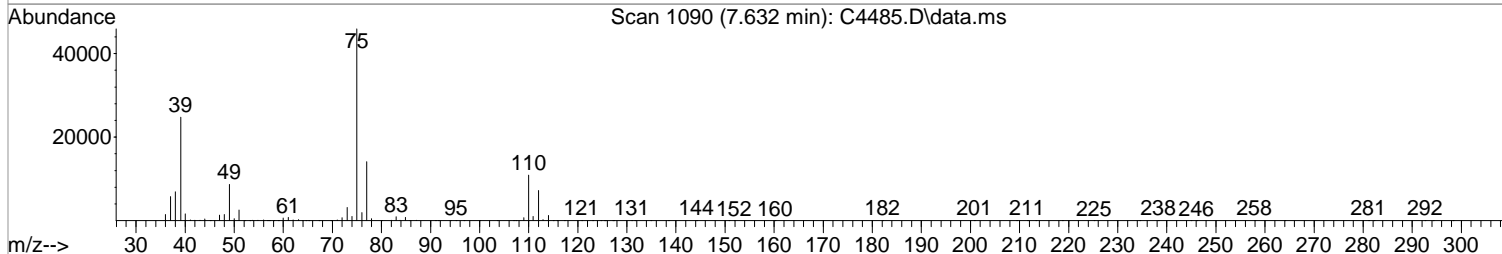
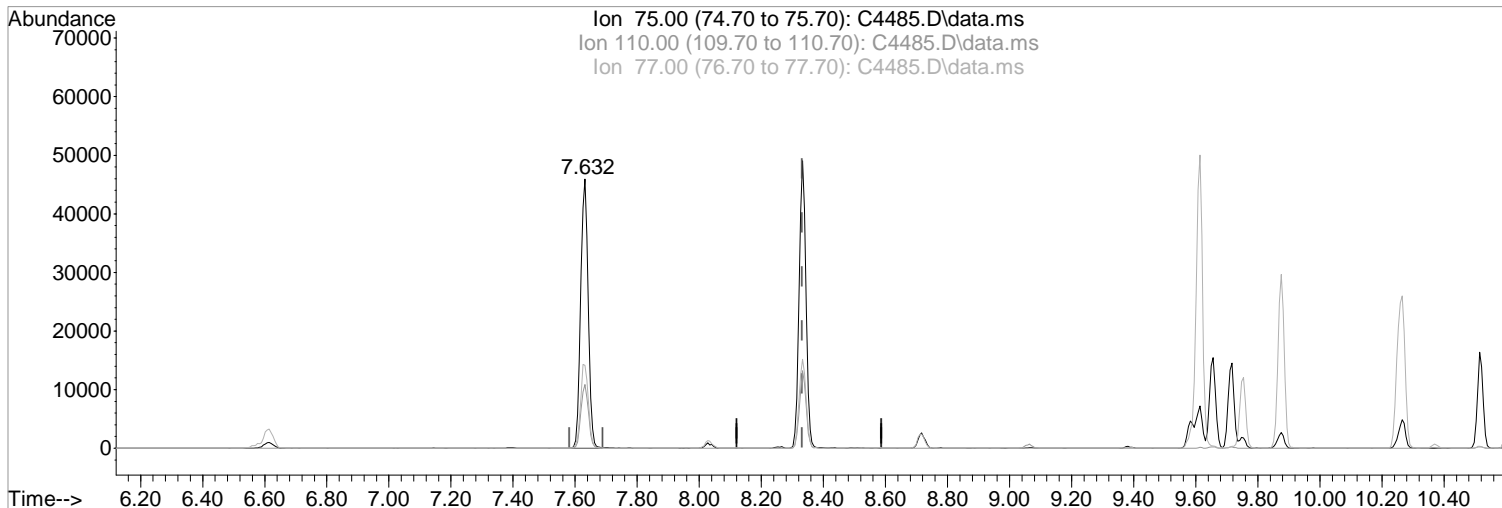




Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4485.D  
 Acq On : 23 Jan 2018 12:56 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:48:17 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:08:47 2018  
 Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 19.11 ug/L m  
 response 76711

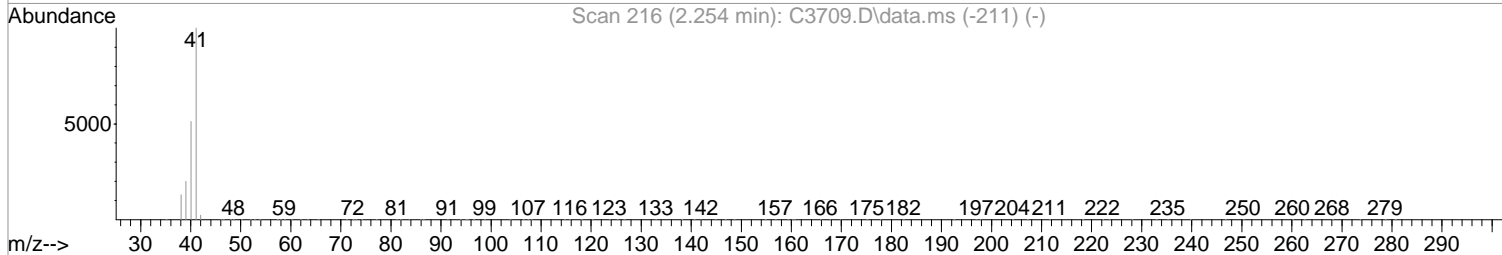
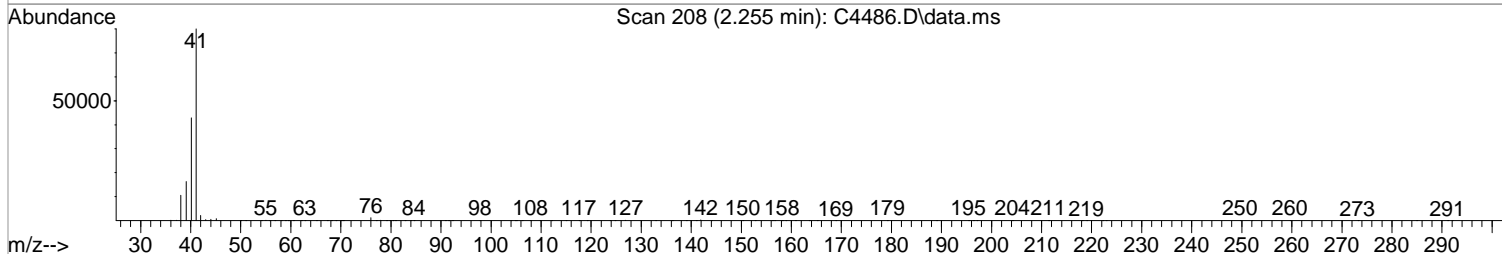
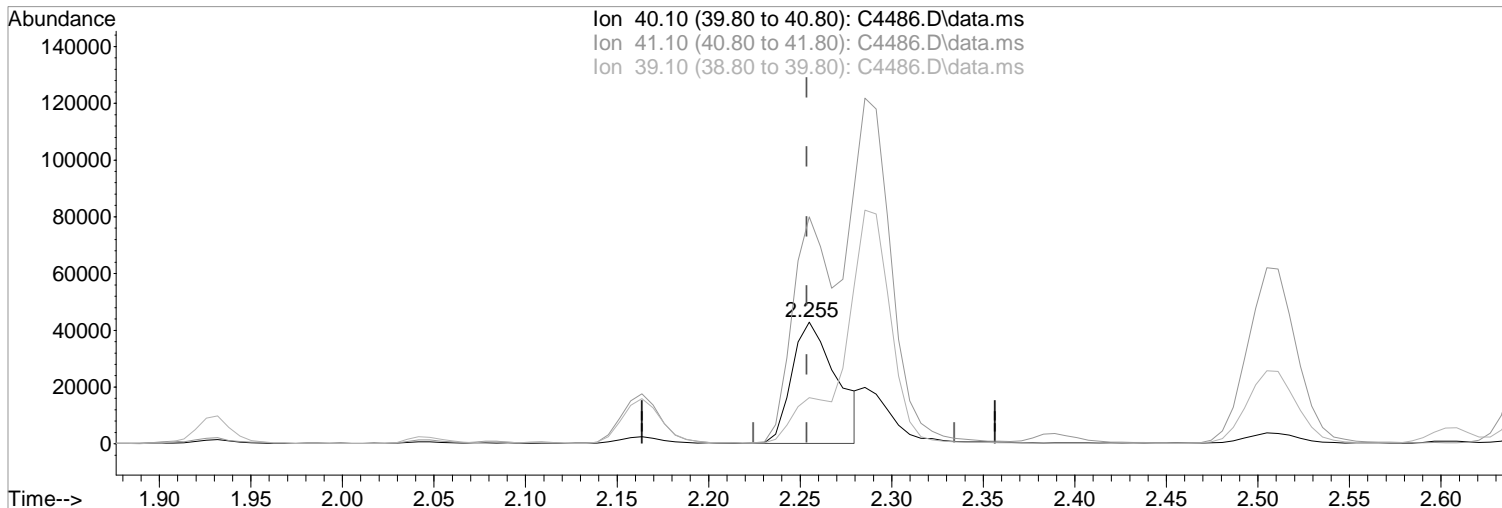
Ion	Exp%	Act%
75.00	100	100
110.00	25.40	23.65
77.00	30.20	30.77
0.00	0.00	0.00

Manual Integration:  
 After  
 Wrong peak selected.  
 02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4486.D  
Acq On : 23 Jan 2018 1:19 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:40:00 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:14:46 2018  
Response via : Initial Calibration



TIC: C4486.D\data.ms

(19) Acetonitrile  
2.255min (+0.001) 252.03 ug/L m  
response 72590

Manual Integration:  
After  
Poor integration.

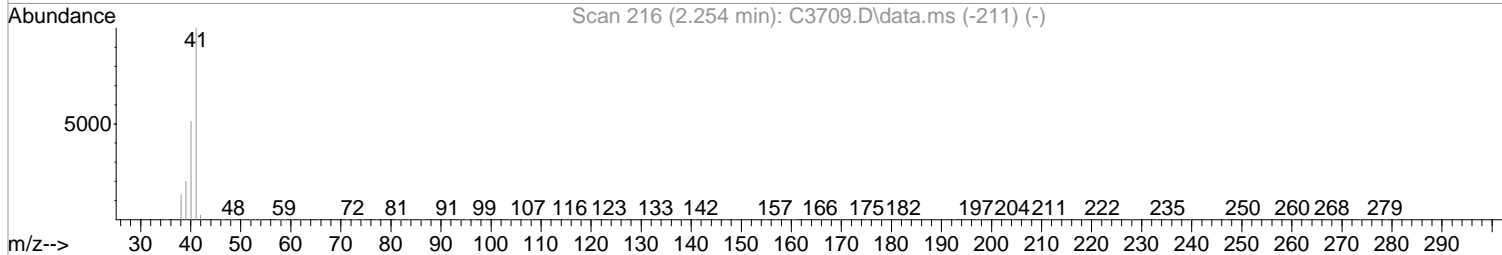
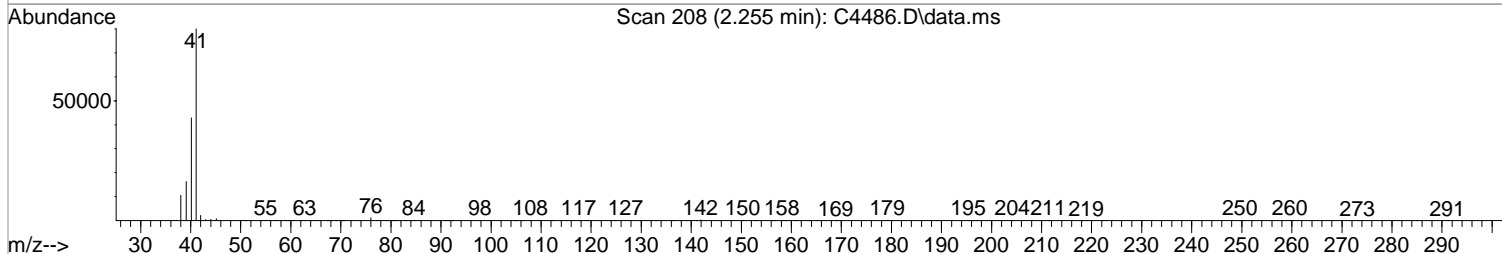
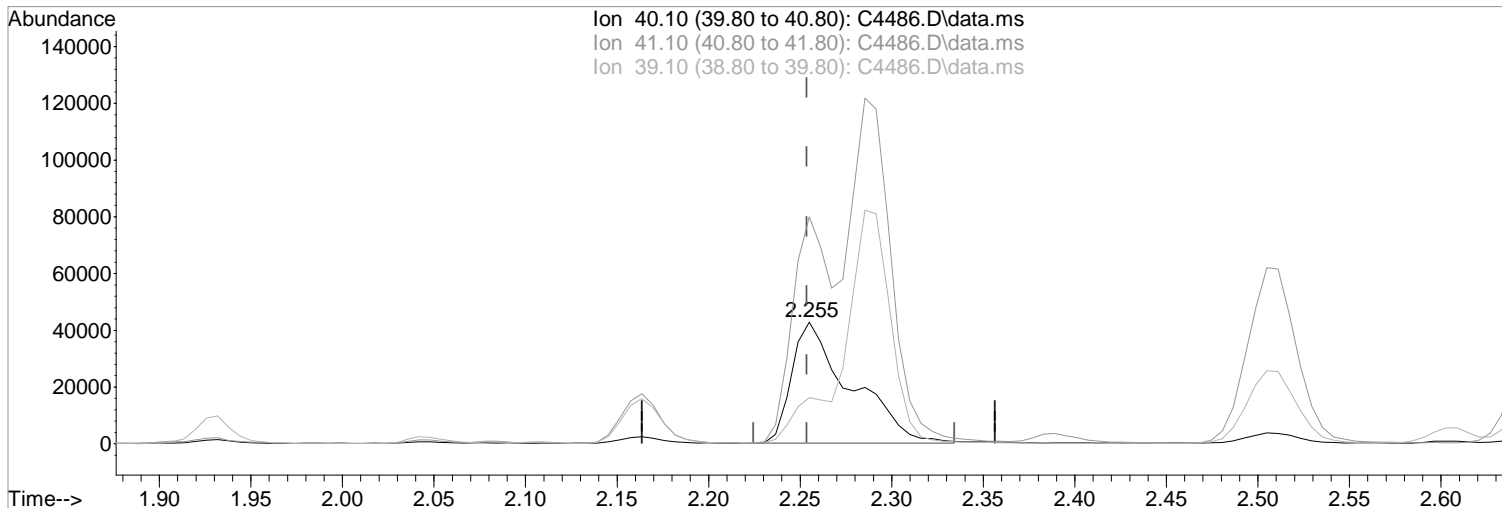
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	186.73
39.10	39.50	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4486.D  
Acq On : 23 Jan 2018 1:19 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:40:00 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:14:46 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (+0.001) 330.99 ug/L  
response 95334

Manual Integration:  
Before

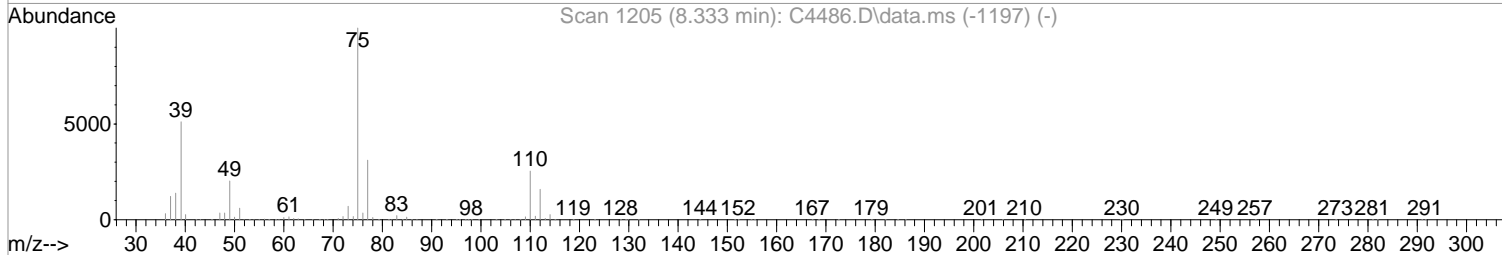
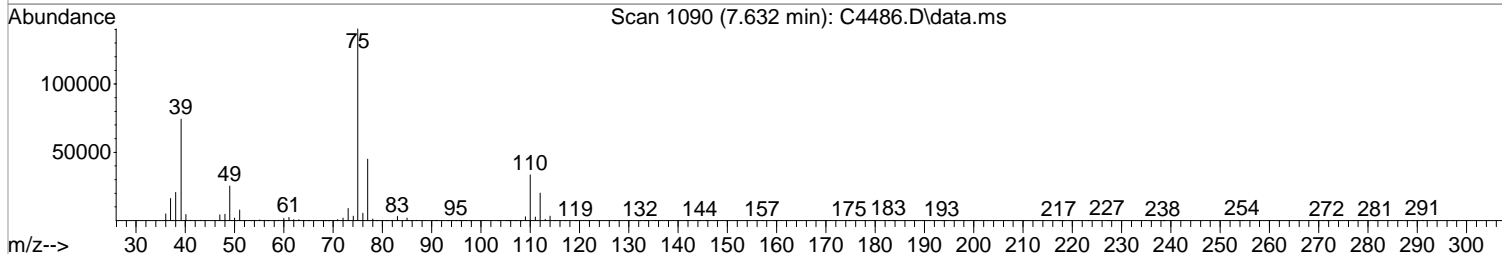
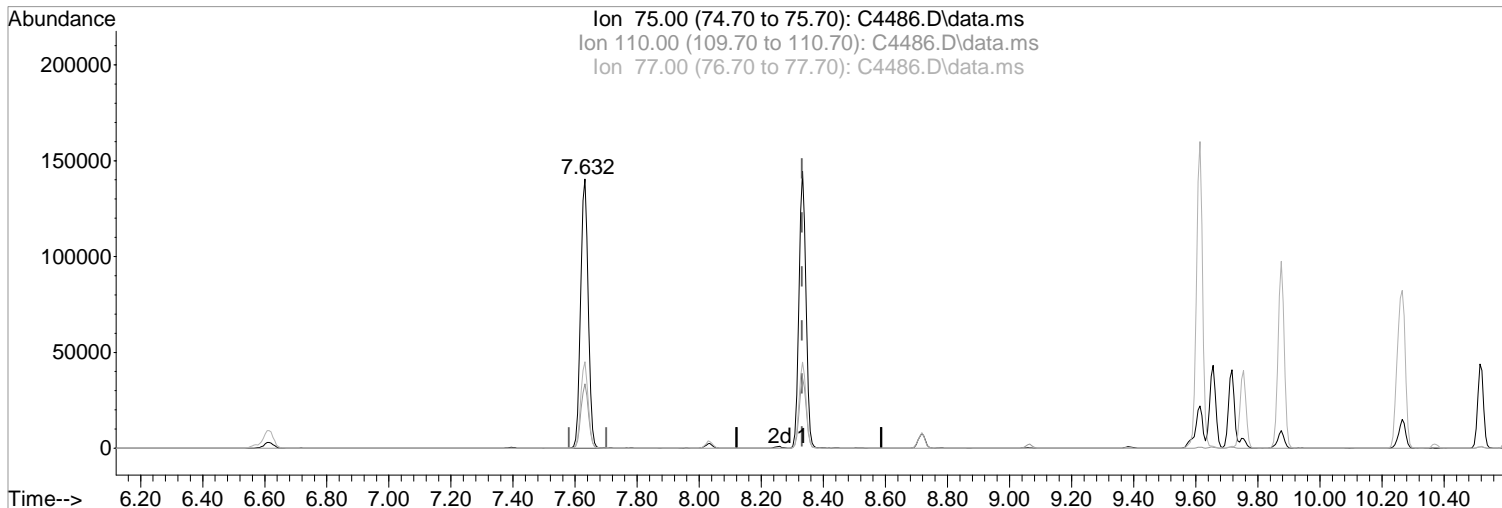
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	186.73
39.10	39.50	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4486.D  
Acq On : 23 Jan 2018 1:19 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:48:43 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:14:46 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 60.00 ug/L m  
response 236875

Manual Integration:

After

Wrong peak selected.

02/07/18

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	23.92
77.00	30.20	32.12
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	256184	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	371591	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	329712	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	185896	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.535	113	122330	46.95	ug/L	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	93.90%	
47) surr1,1,2-dichloroetha...	5.126	65	149926	47.06	ug/L	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	94.12%	
64) SURR3,Toluene-d8	7.955	98	460416	47.42	ug/L	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	94.84%	
69) SURR2,BFB	10.735	95	185019	48.23	ug/L	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	96.46%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	186136	58.14	ug/L		100
3) Chloromethane	1.151	50	195881	48.32	ug/L		97
4) Vinyl Chloride	1.212	62	169091	54.79	ug/L		99
5) Bromomethane	1.408	94	93153	37.64	ug/L		99
6) Chloroethane	1.475	64	100624	52.08	ug/L		100
7) Freon 21	1.603	67	257326	53.36	ug/L		100
8) Trichlorofluoromethane	1.645	101	202454	55.15	ug/L		99
9) Diethyl Ether	1.846	59	120808	53.89	ug/L		99
10) Freon 123a	1.846	67	158567	53.98	ug/L		96
11) Freon 123	1.889	83	184828	55.77	ug/L		97
12) Acrolein	1.932	56	183011	264.80	ug/L		98
13) 1,1-Diclcethene	2.005	96	120864	54.05	ug/L		99
14) Freon 113	2.011	101	119746	53.85	ug/L		96
15) Acetone	2.048	43	79630	44.21	ug/L		97
16) 2-Propanol	2.163	45	334880	1066.15	ug/L		93
17) Iodomethane	2.121	142	88996	113.95	ug/L		99
18) Carbon Disulfide	2.176	76	353960	55.34	ug/L		100
19) Acetonitrile	2.255	40	72590m	252.03	ug/L		
20) Allyl Chloride	2.292	76	59771	54.19	ug/L	#	93
21) Methyl Acetate	2.310	43	146383	48.05	ug/L		97
22) Methylene Chloride	2.389	84	133362	50.93	ug/L		99
23) TBA	2.505	59	567338	1056.27	ug/L		85
24) Acrylonitrile	2.602	53	366141	263.25	ug/L		99
25) Methyl-t-Butyl Ether	2.657	73	451205	51.23	ug/L		98
26) trans-1,2-Dichloroethene	2.645	96	129577	53.58	ug/L		99
27) 1,1-Diclcethane	3.066	63	236055	52.23	ug/L		98
28) Vinyl Acetate	3.145	86	36021	66.48	ug/L		98
29) DIPE	3.182	45	453816	51.59	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.175	53	209089	53.31	ug/L		95
31) ETBE	3.639	59	451639	51.84	ug/L		100
32) 2,2-Dichloropropane	3.779	77	212111	53.87	ug/L		100
33) cis-1,2-Dichloroethene	3.785	96	149382	50.68	ug/L		98
34) 2-Butanone	3.822	43	103488	50.02	ug/L		96
35) Propionitrile	3.889	54	159156	256.04	ug/L		95
36) Bromochloromethane	4.127	130	92180	50.38	ug/L		96
37) Methacrylonitrile	4.120	67	76172	51.98	ug/L		97
38) Tetrahydrofuran	4.212	42	63534	47.64	ug/L		100
39) Chloroform	4.279	83	237927	51.10	ug/L		99
40) 1,1,1-Trichloroethane	4.553	97	218732	54.09	ug/L		96

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	447106	51.52	ug/L	97
43) Cyclohexane	4.645	41	137965	54.53	ug/L	98
45) Carbontetrachloride	4.846	117	187271	56.67	ug/L	96
46) 1,1-Dichloropropene	4.852	75	183967	51.93	ug/L	96
48) Benzene	5.224	78	520579	52.61	ug/L	98
49) 1,2-Dichloroethane	5.260	62	204742	50.98	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	250926	1087.30	ug/L	99
51) n-Heptane	5.809	43	167572	54.15	ug/L	97
52) 1-Butanol	6.376	56	387168	2927.38	ug/L	97
53) Trichloroethene	6.303	130	143859	52.23	ug/L	100
54) Methylcyclohexane	6.571	55	181113	55.52	ug/L	98
55) 1,2-Diclpropane	6.614	63	140003	52.62	ug/L	100
56) Dibromomethane	6.766	93	93969	51.86	ug/L	97
57) 1,4-Dioxane	6.852	88	62453	1014.79	ug/L	99
58) Methyl Methacrylate	6.894	69	129244	52.33	ug/L	99
59) Bromodichloromethane	7.028	83	186030	55.42	ug/L	99
60) 2-Nitropropane	7.339	41	109311	112.88	ug/L	95
61) 2-Chloroethylvinyl Ether	7.492	63	62632	61.17	ug/L	97
62) cis-1,3-Dichloropropene	8.333	75	222456	56.35	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	189654	51.40	ug/L	97
65) Toluene	8.034	91	573582	52.66	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	222456	56.35	ug/L	99
67) Ethyl Methacrylate	8.510	69	225646	55.61	ug/L	96
68) 1,1,2-Trichloroethane	8.534	97	135873	52.05	ug/L	96
71) Tetrachloroethene	8.681	164	117231	52.63	ug/L	95
72) 2-Hexanone	8.876	43	146889	52.10	ug/L	96
73) 1,3-Dichloropropane	8.717	76	236004	51.88	ug/L	99
74) Dibromochloromethane	8.967	129	155700	57.02	ug/L	97
75) N-Butyl Acetate	9.058	43	303701	52.69	ug/L	97
76) 1,2-Dibromoethane	9.065	107	145352	54.00	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	221945	50.28	ug/L	96
78) Chlorobenzene	9.613	112	382747	52.45	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	199758	48.91	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.711	131	142892	54.91	ug/L	99
81) Ethylbenzene	9.753	106	203529	53.51	ug/L	99
82) (m+p)Xylene	9.875	106	512301	108.26	ug/L	99
83) o-Xylene	10.253	106	252957	54.97	ug/L	96
84) Styrene	10.266	104	432391	54.98	ug/L	96
85) Bromoform	10.418	173	113184	57.09	ug/L	99
86) 2-Chlorobenzotrifluoride	10.522	180	219707	50.95	ug/L	96
87) Isopropylbenzene	10.613	105	660894	54.21	ug/L	100
88) Cyclohexanone	10.662	55	742483	1061.18	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	56391	52.15	ug/L	84
91) 1,1,2,2-Tetrachloroethane	10.887	83	213701	52.04	ug/L	97
92) Bromobenzene	10.851	156	171868	52.53	ug/L #	88
93) 1,2,3-Trichloropropane	10.906	110	69930	50.19	ug/L	93
94) n-Propylbenzene	10.985	91	750281	53.48	ug/L	99
95) 2-Chlorotoluene	11.040	91	443058	51.43	ug/L	99
96) 3-Chlorotoluene	11.095	91	471608	49.68	ug/L	98
97) 4-Chlorotoluene	11.137	91	526049	52.76	ug/L	100
98) 1,3,5-Trimethylbenzene	11.150	105	546092	54.18	ug/L	99
99) tert-Butylbenzene	11.424	119	481177	52.71	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	555118	53.44	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	180801	50.37	ug/L	97
102) sec-Butylbenzene	11.613	105	692717	54.28	ug/L	100
103) p-Isopropyltoluene	11.741	119	598468	54.12	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	320884	51.50	ug/L	98
105) 1,4-Dclbenz	11.765	146	325739	49.52	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	160053	48.87	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	183026	49.36	ug/L	99
108) n-Butylbenzene	12.082	91	530390	54.67	ug/L	98
109) 1,2-Dclbenz	12.070	146	320874	52.41	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	59566	54.12	ug/L	96
111) Trielution Dichlorotol...	12.832	125	865716	151.98	ug/L	98
112) 1,3,5-Trichlorobenzene	12.881	180	241893	49.27	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	631034	102.06	ug/L	94
114) 1,2,4-Tcbenzene	13.369	180	240186	51.91	ug/L	98
115) Hexachlorobt	13.515	225	106794	51.60	ug/L	97
116) Naphthalen	13.558	128	743818	53.87	ug/L	100
117) 1,2,3-Tclbenzene	13.747	180	234515	50.45	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	171456	50.35	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	157003	49.48	ug/L	99

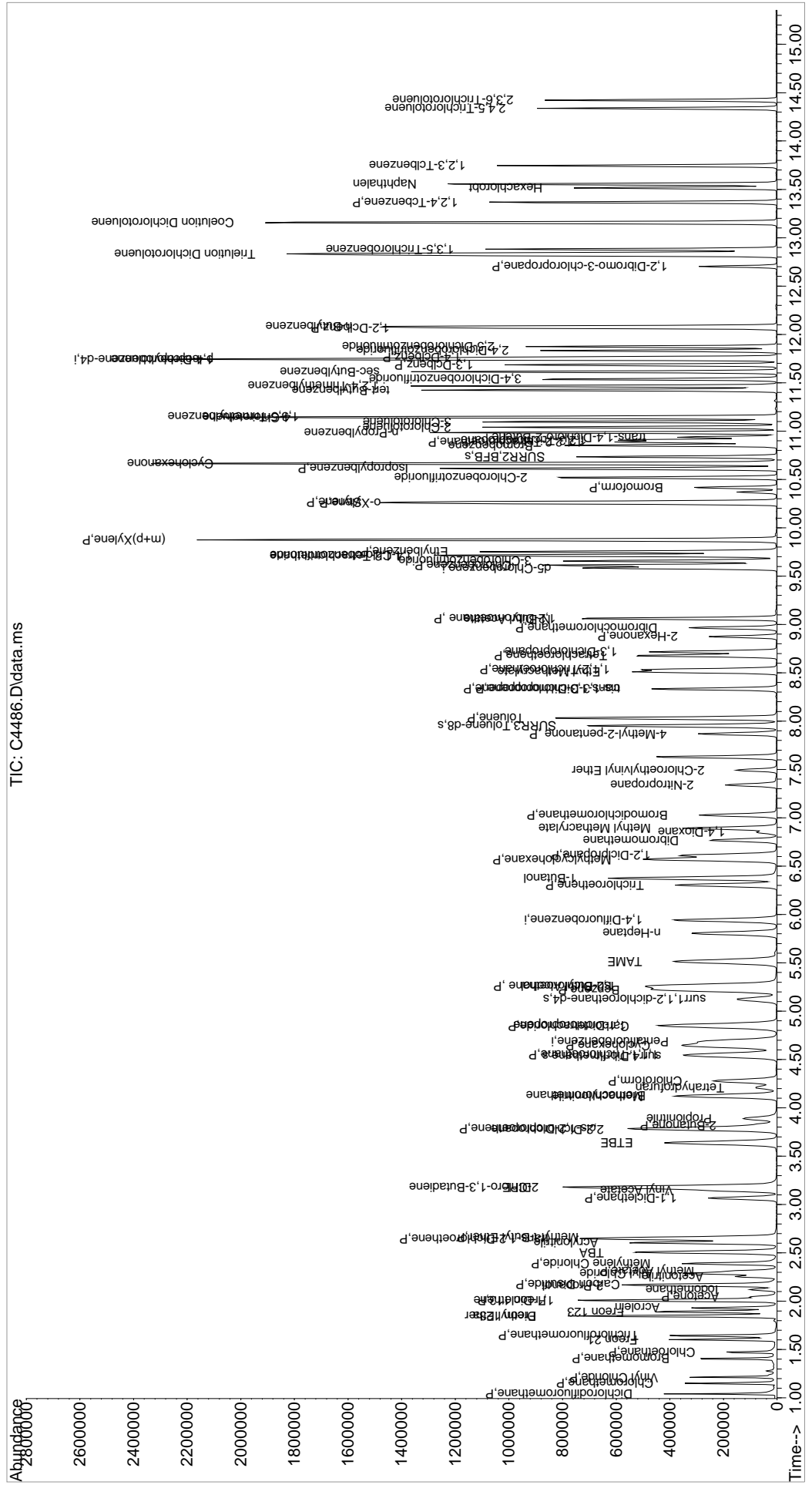
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

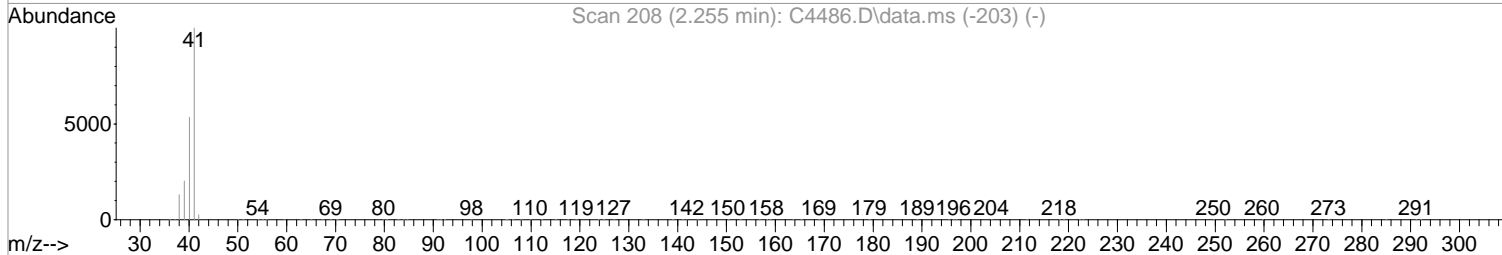
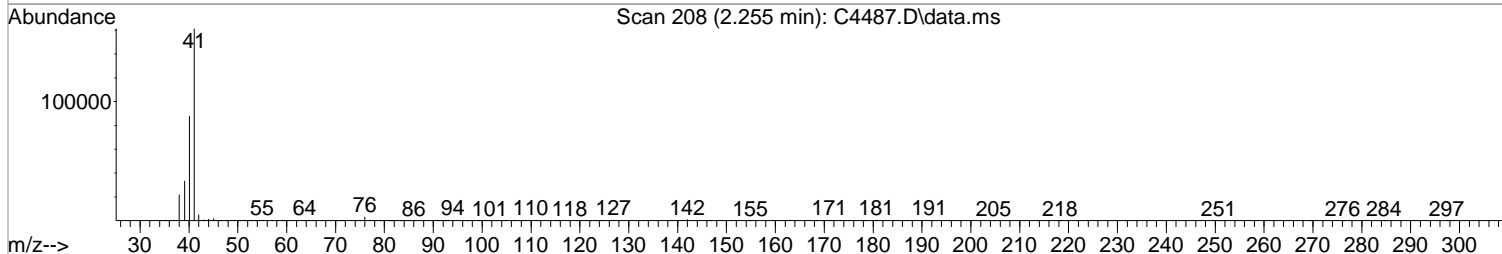
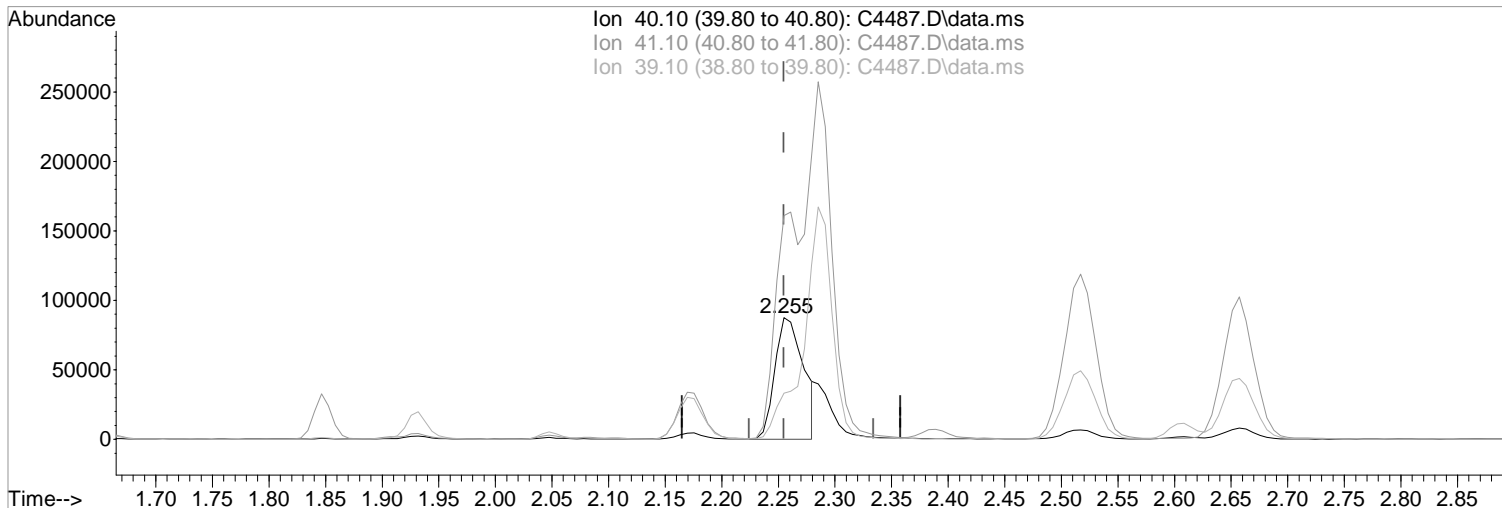
Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:02:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (-0.000) 539.85 ug/L m  
response 154322

Manual Integration:  
After  
Poor integration.

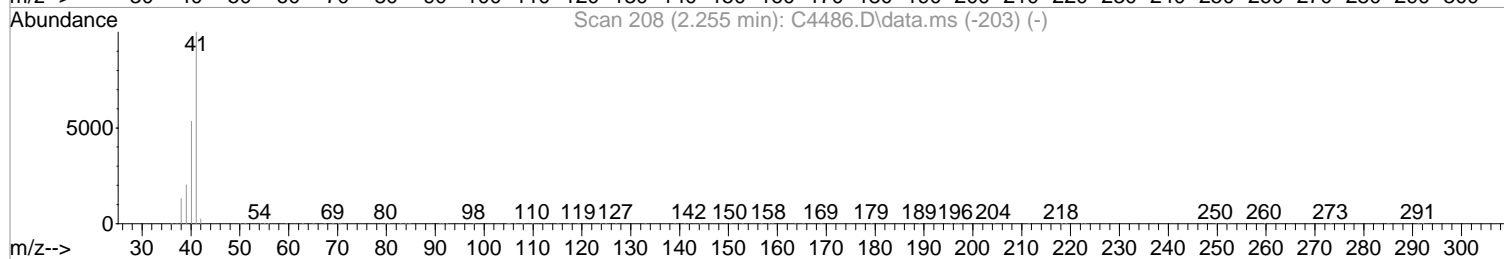
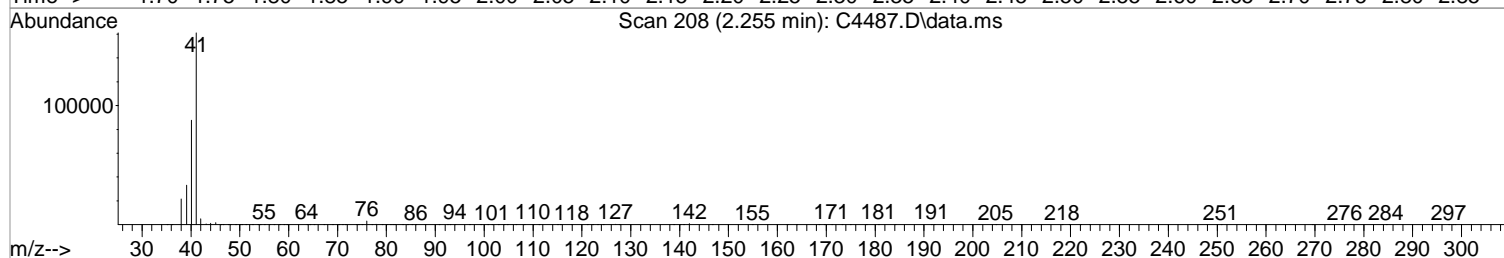
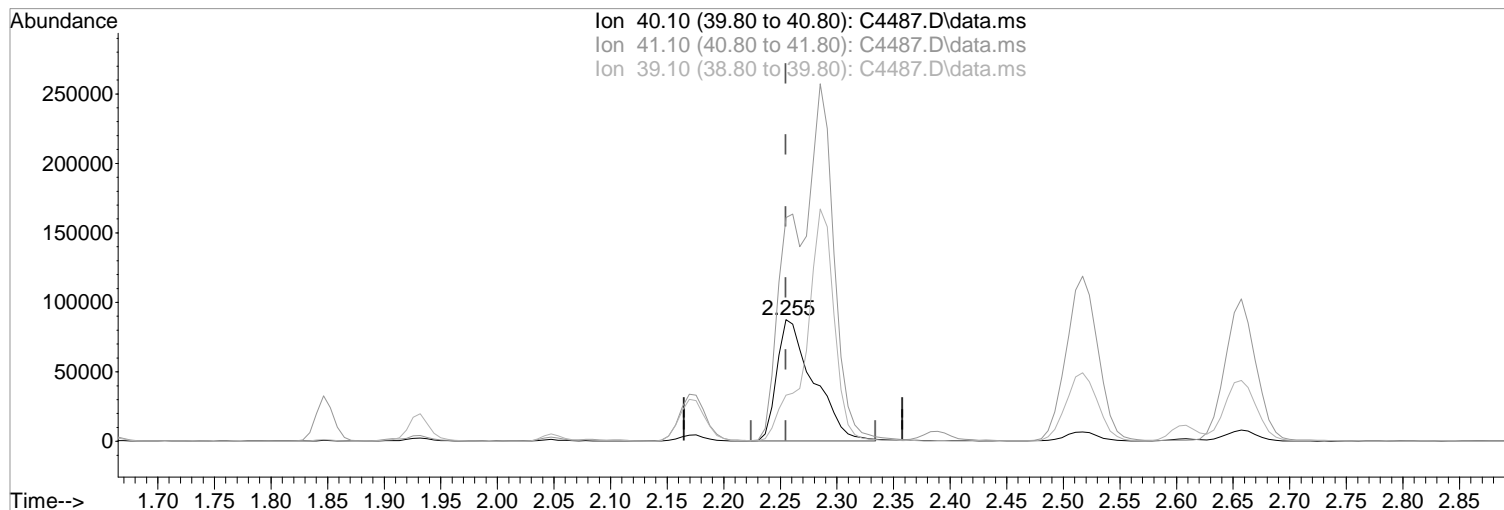
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	183.92
39.10	38.10	37.85
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:02:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (-0.000) 685.41 ug/L  
response 195932

Manual Integration:  
Before

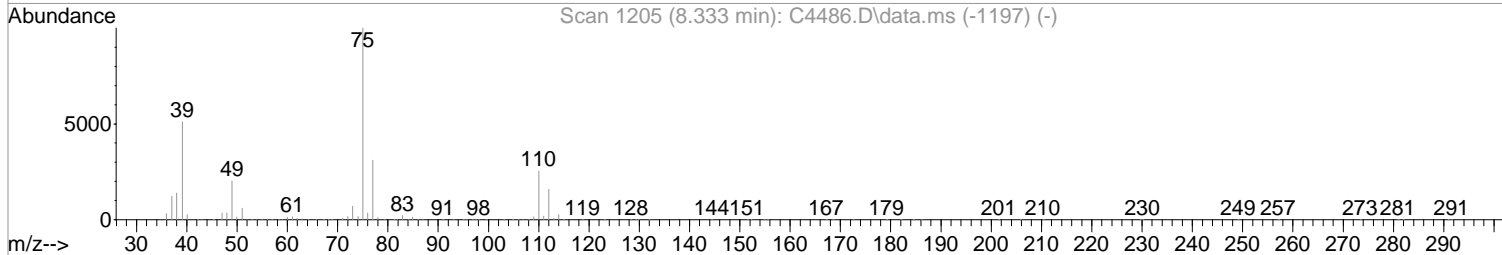
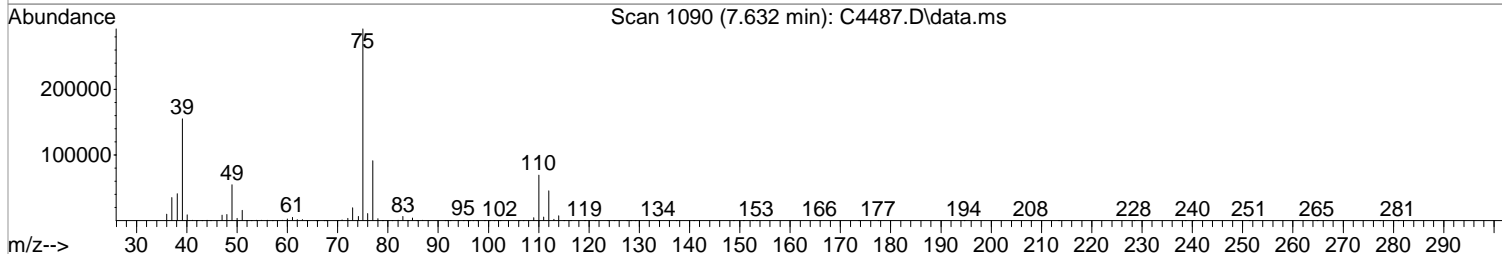
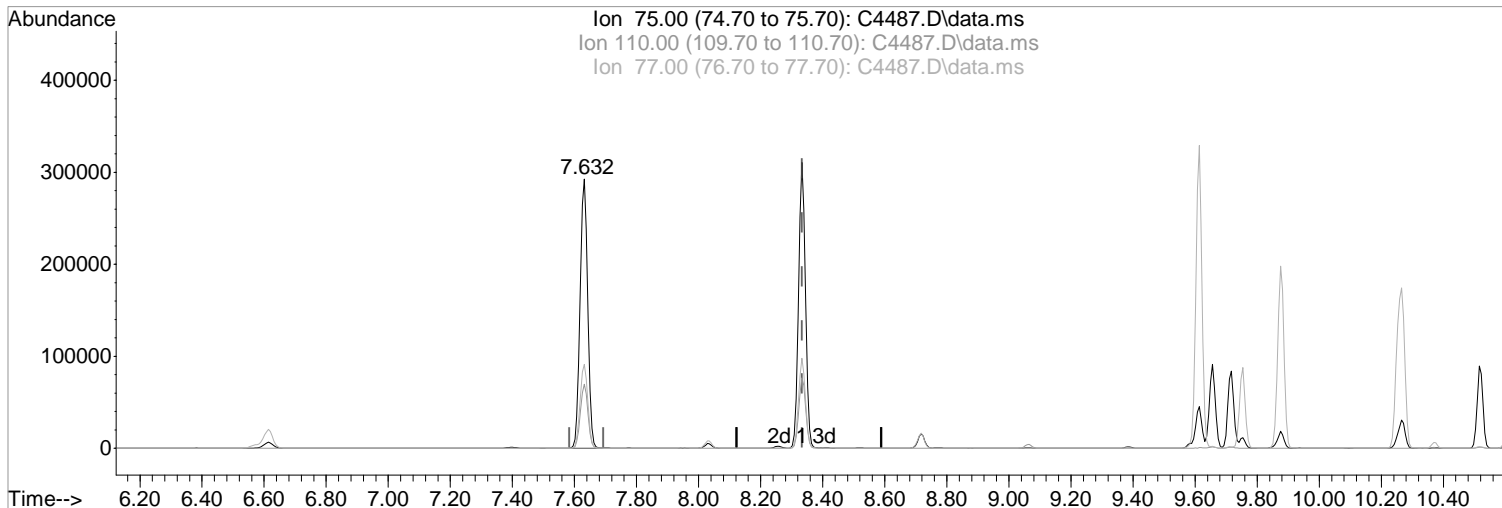
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	183.92
39.10	38.10	37.85
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:49:41 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 121.34 ug/L m

response 493134

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	23.80
77.00	31.10	31.15
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	253847	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	374624	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	337607	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.747	152	191094	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	243601	94.66	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	189.32%#	
47) surr1,1,2-dichloroetha...	5.120	65	294273	93.46	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	186.92%#	
64) SURR3,Toluene-d8	7.955	98	913384	94.94	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	189.88%#	
69) SURR2,BFB	10.735	95	370980	97.07	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	194.14%#	
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	381550	117.10	ug/L	98
3) Chloromethane	1.151	50	391116	97.91	ug/L	99
4) Vinyl Chloride	1.212	62	345489	111.21	ug/L	100
5) Bromomethane	1.401	94	147492	62.73	ug/L	98
6) Chloroethane	1.468	64	197006	102.19	ug/L	100
7) Freon 21	1.603	67	516454	106.88	ug/L	99
8) Trichlorofluoromethane	1.639	101	385333	104.15	ug/L	99
9) Diethyl Ether	1.846	59	248357	110.38	ug/L	98
10) Freon 123a	1.846	67	320371	108.63	ug/L	100
11) Freon 123	1.889	83	375731	112.26	ug/L	98
12) Acrolein	1.932	56	375999	543.68	ug/L	98
13) 1,1-Diclcethene	2.005	96	252387	112.39	ug/L	95
14) Freon 113	2.011	101	244396	109.52	ug/L	99
15) Acetone	2.048	43	159640	92.12	ug/L	97
16) 2-Propanol	2.176	45	698293	2219.14	ug/L	99
17) Iodomethane	2.115	142	260619	268.17	ug/L	100
18) Carbon Disulfide	2.169	76	710169	110.09	ug/L	99
19) Acetonitrile	2.255	40	154322m	539.85	ug/L	
20) Allyl Chloride	2.285	76	117274	105.82	ug/L	# 88
21) Methyl Acetate	2.310	43	301352	100.48	ug/L	99
22) Methylene Chloride	2.389	84	276975	106.42	ug/L	99
23) TBA	2.517	59	1154973	2149.97	ug/L	98
24) Acrylonitrile	2.608	53	760244	546.81	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	918288	104.80	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	267416	110.27	ug/L	98
27) 1,1-Diclcethane	3.066	63	491020	108.84	ug/L	99
28) Vinyl Acetate	3.145	86	74365	131.29	ug/L	# 89
29) DIPE	3.188	45	928764	105.99	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	409281	104.17	ug/L	99
31) ETBE	3.639	59	923840	106.36	ug/L	99
32) 2,2-Dichloropropane	3.779	77	432354	109.41	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	309434	105.71	ug/L	99
34) 2-Butanone	3.828	43	211432	103.12	ug/L	98
35) Propionitrile	3.895	54	324414	524.58	ug/L	98
36) Bromochloromethane	4.126	130	183617	101.15	ug/L	98
37) Methacrylonitrile	4.126	67	155065	106.10	ug/L	97
38) Tetrahydrofuran	4.212	42	128563	98.22	ug/L	98
39) Chloroform	4.279	83	492846	106.43	ug/L	99
40) 1,1,1-Trichloroethane	4.553	97	448461	110.41	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	916811	106.08	ug/L	99
43) Cyclohexane	4.645	41	274500	105.71	ug/L	96
45) Carbontetrachloride	4.840	117	392533	115.27	ug/L	98
46) 1,1-Dichloropropene	4.852	75	382605	106.45	ug/L	99
48) Benzene	5.218	78	1076006	106.93	ug/L	99
49) 1,2-Dichloroethane	5.260	62	412943	101.66	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	513558	2175.64	ug/L	98
51) n-Heptane	5.803	43	351606	110.86	ug/L	97
52) 1-Butanol	6.388	56	833013	6074.36	ug/L	100
53) Trichloroethene	6.303	130	301833	107.89	ug/L	97
54) Methylcyclohexane	6.571	55	365008	108.98	ug/L	99
55) 1,2-Diclpropane	6.614	63	290251	107.27	ug/L	98
56) Dibromomethane	6.766	93	194652	105.89	ug/L	99
57) 1,4-Dioxane	6.851	88	128446	2064.09	ug/L	98
58) Methyl Methacrylate	6.894	69	265931	105.97	ug/L	97
59) Bromodichloromethane	7.028	83	386472	112.17	ug/L	99
60) 2-Nitropropane	7.339	41	228265	228.90	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	135241	126.32	ug/L	97
62) cis-1,3-Dichloropropene	8.333	75	470033	115.65	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	392661	105.07	ug/L	99
65) Toluene	8.034	91	1193561	107.74	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	470033	115.65	ug/L	99
67) Ethyl Methacrylate	8.510	69	466017	111.83	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	280131	105.72	ug/L	99
71) Tetrachloroethene	8.680	164	243517	105.83	ug/L	99
72) 2-Hexanone	8.875	43	302497	104.05	ug/L	100
73) 1,3-Dichloropropane	8.717	76	487469	104.00	ug/L	97
74) Dibromochloromethane	8.967	129	326950	114.27	ug/L	99
75) N-Butyl Acetate	9.058	43	631759	106.09	ug/L	99
76) 1,2-Dibromoethane	9.064	107	305674	109.45	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	459931	101.66	ug/L	99
78) Chlorobenzene	9.613	112	800639	106.29	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	417146	100.12	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	298346	110.16	ug/L	99
81) Ethylbenzene	9.753	106	426899	108.35	ug/L	98
82) (m+p)Xylene	9.875	106	1063495	216.50	ug/L	99
83) o-Xylene	10.253	106	525562	109.72	ug/L	99
84) Styrene	10.272	104	907848	110.90	ug/L	95
85) Bromoform	10.418	173	243714	117.28	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	453678	102.43	ug/L	99
87) Isopropylbenzene	10.613	105	1385380	109.45	ug/L	99
88) Cyclohexanone	10.668	55	1463292	2021.85	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.936	53	115330	103.42	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.887	83	439758	103.47	ug/L	100
92) Bromobenzene	10.857	156	353755	104.31	ug/L	90
93) 1,2,3-Trichloropropane	10.912	110	142377	99.34	ug/L	95
94) n-Propylbenzene	10.985	91	1572497	107.79	ug/L	99
95) 2-Chlorotoluene	11.040	91	932802	104.83	ug/L	100
96) 3-Chlorotoluene	11.095	91	985828	101.12	ug/L	99
97) 4-Chlorotoluene	11.137	91	1110409	107.35	ug/L	99
98) 1,3,5-Trimethylbenzene	11.149	105	1148473	109.33	ug/L	100
99) tert-Butylbenzene	11.424	119	1006827	106.33	ug/L	99
100) 1,2,4-Trimethylbenzene	11.466	105	1157763	107.19	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	377938	102.30	ug/L	99
102) sec-Butylbenzene	11.613	105	1466574	110.22	ug/L	99
103) p-Isopropyltoluene	11.747	119	1261217	109.44	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration

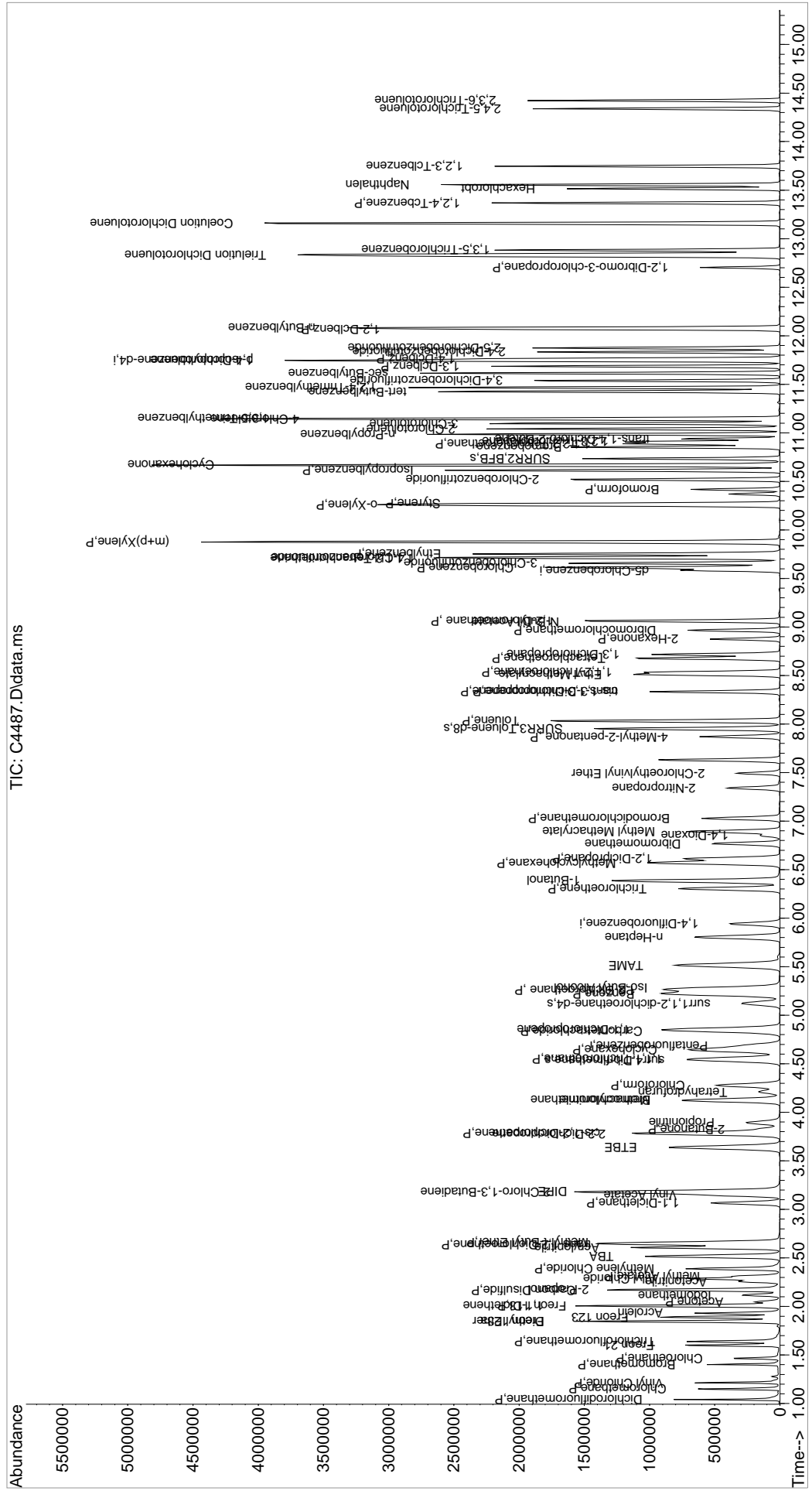
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	669977	104.09	ug/L	100
105) 1,4-Dclbenz	11.765	146	677251	100.32	ug/L	100
106) 2,4-Dichlorobenzotrifl...	11.832	214	346676	103.37	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	379145	99.68	ug/L	97
108) n-Butylbenzene	12.082	91	1134941	112.05	ug/L	100
109) 1,2-Dclbenz	12.070	146	664540	104.74	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	123164	107.38	ug/L	97
111) Trielution Dichlorotol...	12.832	125	1834385	312.58	ug/L	99
112) 1,3,5-Trichlorobenzene	12.887	180	511324	101.56	ug/L	99
113) Coelution Dichlorotoluene	13.161	125	1340346	210.16	ug/L	96
114) 1,2,4-Tcbenzene	13.369	180	496002	103.62	ug/L	99
115) Hexachlorobt	13.515	225	228035	106.62	ug/L	99
116) Naphthalen	13.557	128	1535871	106.82	ug/L	100
117) 1,2,3-Tclbenzene	13.746	180	489692	102.33	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	379578	108.32	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	340842	104.67	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:03:27 2018  
Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration

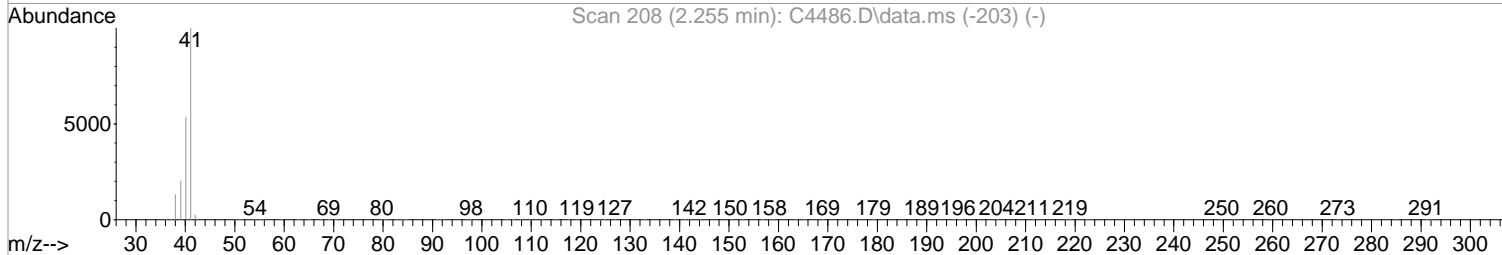
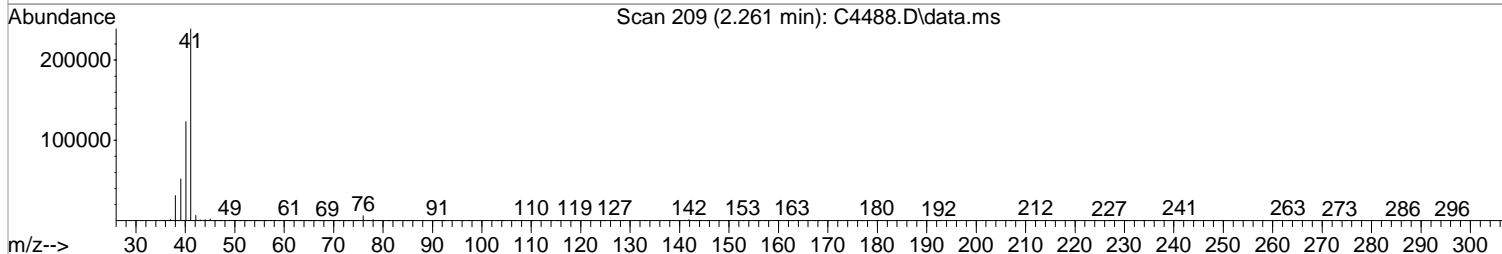
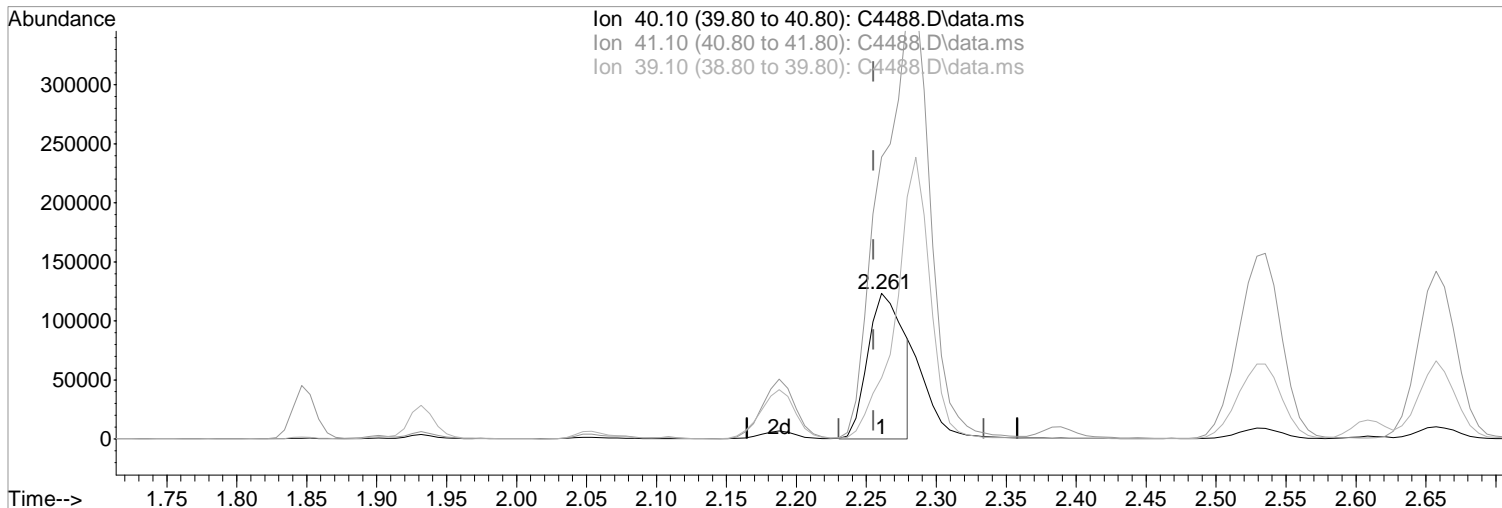




Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:20:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.006) 772.09 ug/L m  
response 218012

Manual Integration:

After

Poor integration.

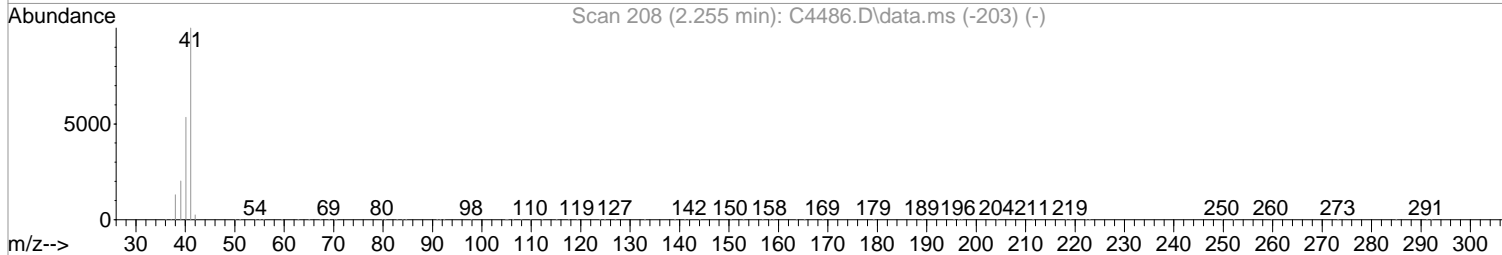
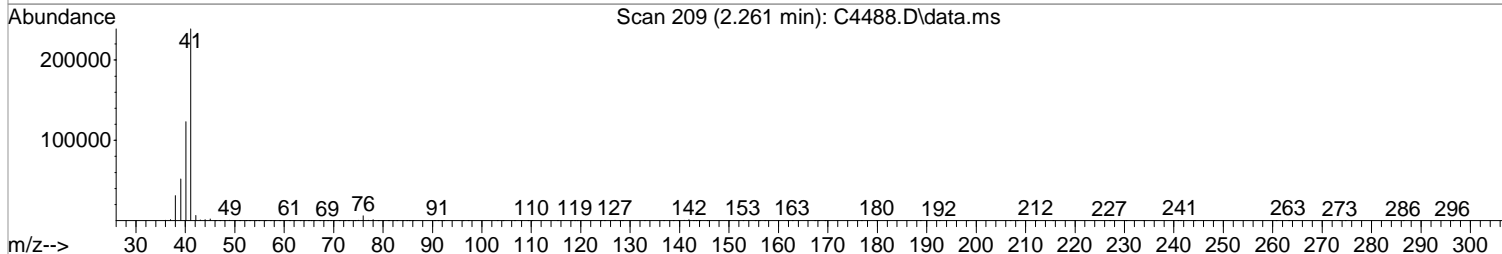
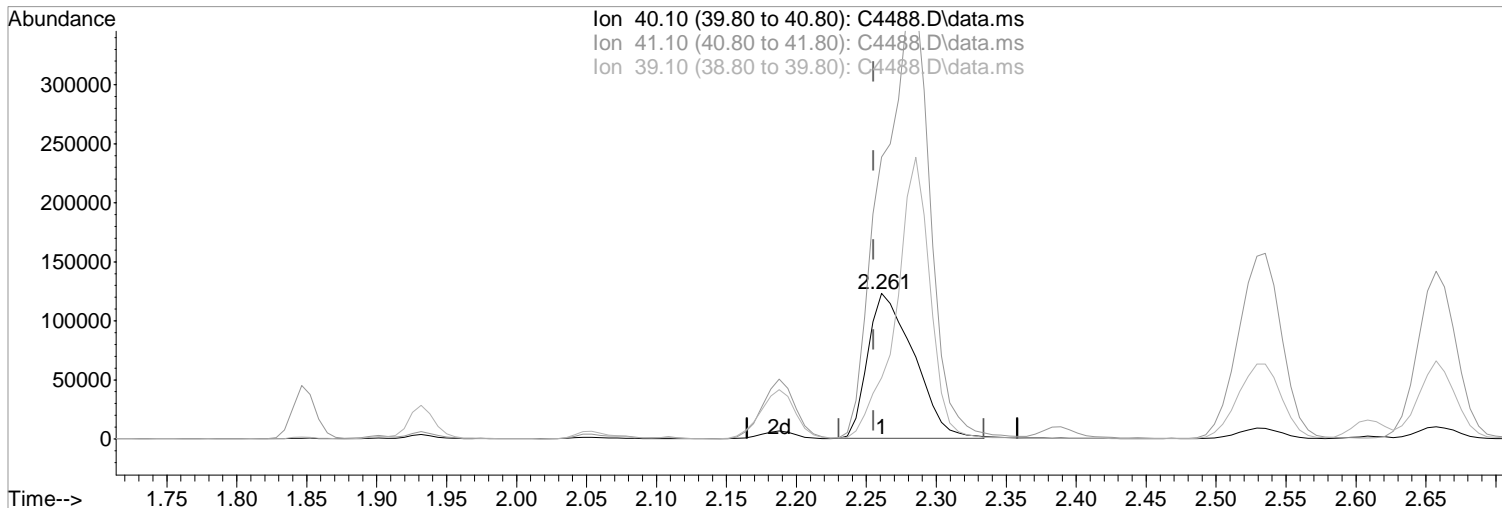
01/23/18

Ion	Exp%	Act%
40.10	100	100
41.10	186.70	193.71
39.10	38.10	42.10
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:20:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.006) 997.20 ug/L  
response 281575

Manual Integration:  
Before

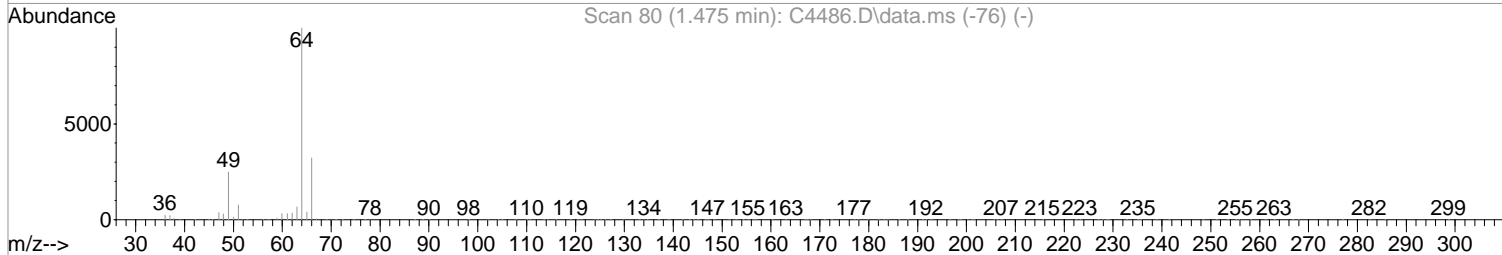
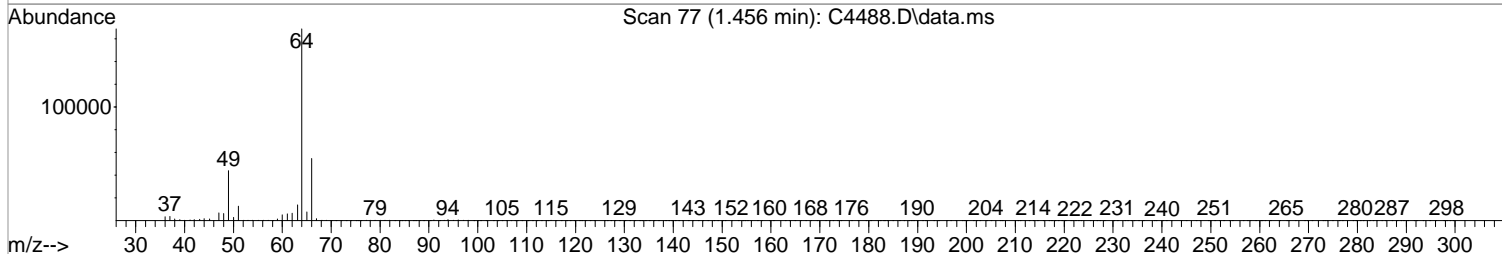
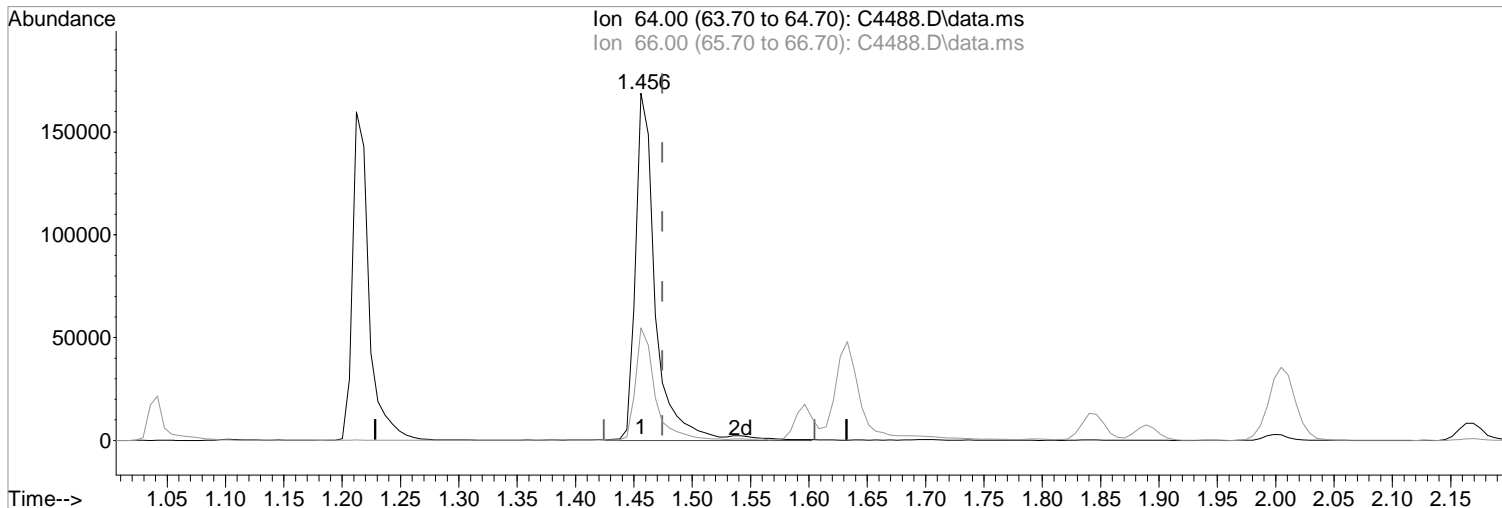
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	193.71
39.10	38.10	42.10
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:24:05 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(6) Chloroethane (P)

1.456min (-0.018) 106.60 ug/L m

response 200962

Ion	Exp%	Act%
64.00	100	100
66.00	32.20	32.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

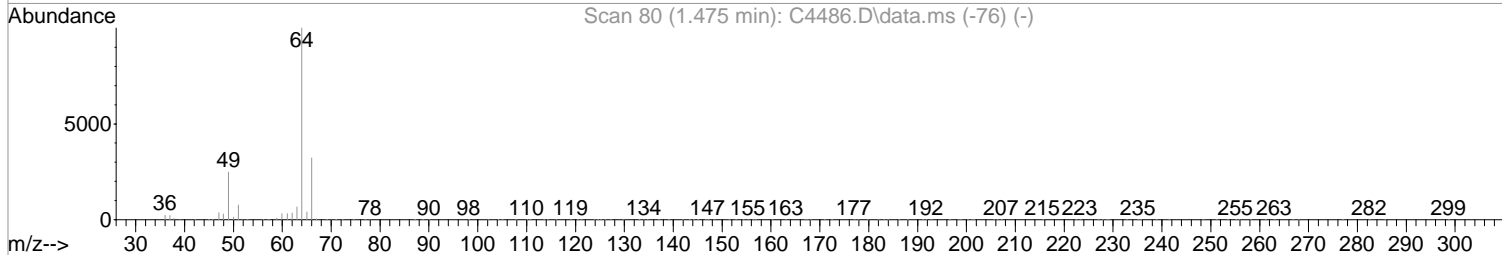
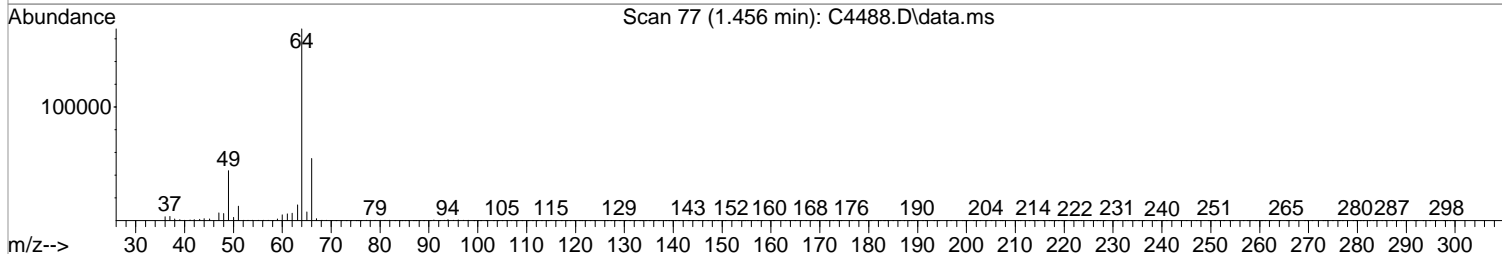
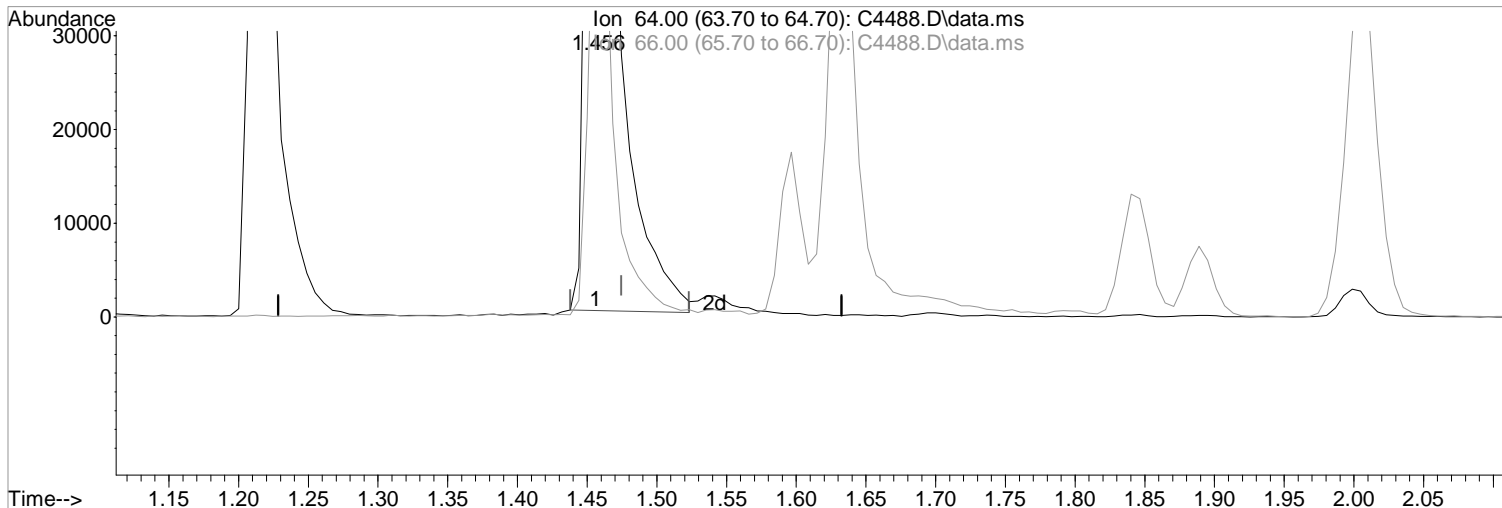
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:24:05 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(6) Chloroethane (P)

Manual Integration:

1.456min (-0.018) 101.96 ug/L

Before

response 192220

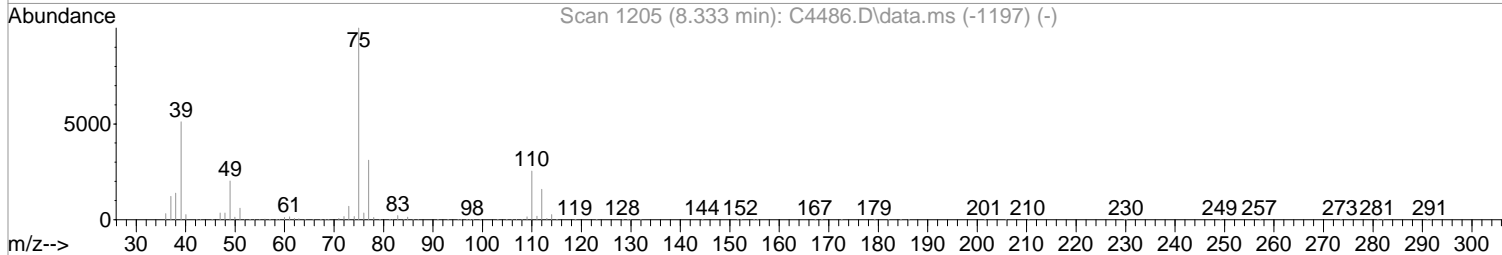
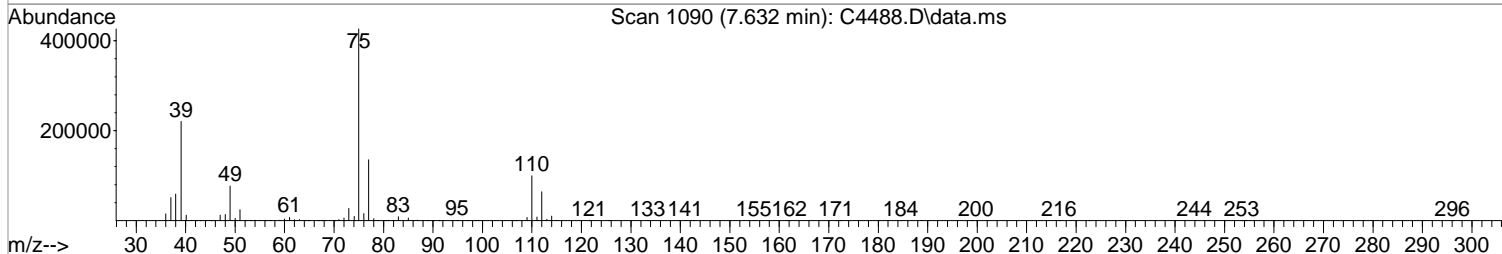
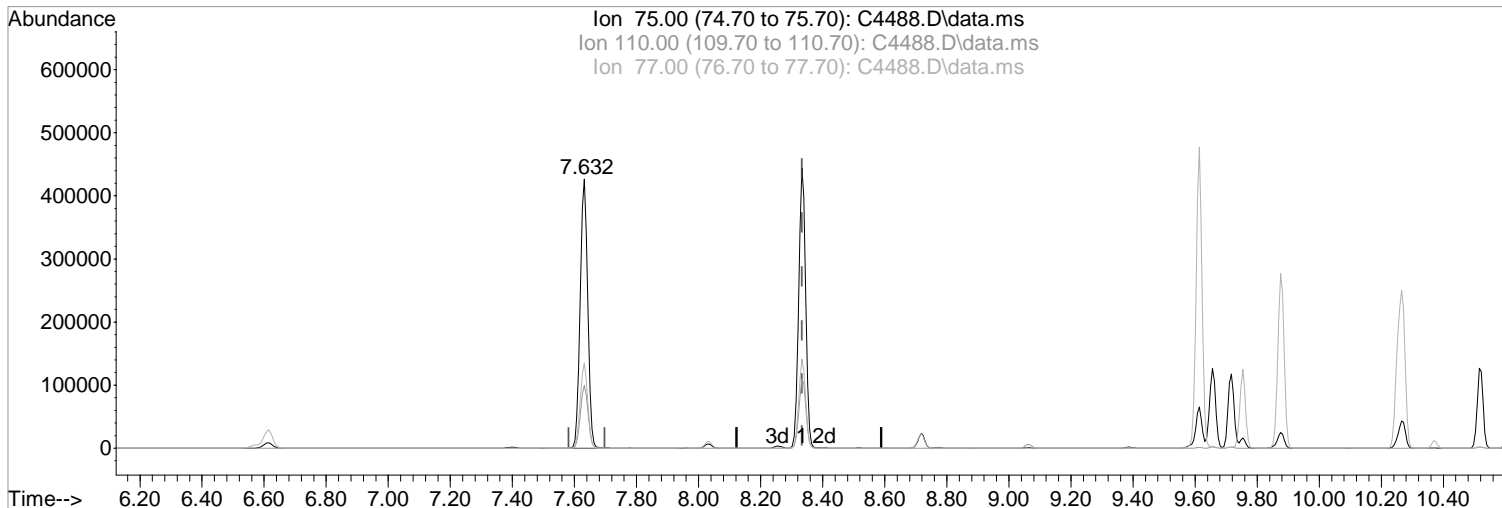
Ion	Exp%	Act%
64.00	100	100
66.00	32.20	32.40
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:50:15 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 175.00 ug/L m

response 711021

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	23.35
77.00	31.10	31.68
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	247458	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	366316	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	330644	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.747	152	190029	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	466223	187.79	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	375.58%#		
47) surr1,1,2-dichloroetha...	5.120	65	560459	185.06	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	370.12%#		
64) SURR3,Toluene-d8	7.955	98	1753010	188.74	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	377.48%#		
69) SURR2,BFB	10.735	95	728535	196.40	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	392.80%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	526559	161.82	ug/L	98
3) Chloromethane	1.145	50	547308	140.97	ug/L	99
4) Vinyl Chloride	1.212	62	481163	156.38	ug/L	99
5) Bromomethane	1.401	94	201359	92.80	ug/L	98
6) Chloroethane	1.456	64	200962m	106.60	ug/L	
7) Freon 21	1.596	67	731402	153.76	ug/L	100
8) Trichlorofluoromethane	1.633	101	482064	132.87	ug/L	99
9) Diethyl Ether	1.846	59	353667	158.89	ug/L	98
10) Freon 123a	1.840	67	461748	158.65	ug/L	94
11) Freon 123	1.889	83	533978	160.84	ug/L	98
12) Acrolein	1.932	56	552289	809.11	ug/L	97
13) 1,1-Diclcethene	1.999	96	347697	156.07	ug/L	98
14) Freon 113	2.005	101	331329	150.27	ug/L	100
15) Acetone	2.054	43	235003	141.33	ug/L	98
16) 2-Propanol	2.188	45	1046722	3359.72	ug/L	98
17) Iodomethane	2.115	142	418674	345.18	ug/L	99
18) Carbon Disulfide	2.169	76	1061064	166.33	ug/L	99
19) Acetonitrile	2.261	40	218012m	772.09	ug/L	
20) Allyl Chloride	2.285	76	164140	150.68	ug/L	# 84
21) Methyl Acetate	2.316	43	434462	148.49	ug/L	98
22) Methylene Chloride	2.389	84	389599	152.16	ug/L	99
23) TBA	2.535	59	1691938	3196.60	ug/L	99
24) Acrylonitrile	2.608	53	1109069	807.51	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	1310463	152.37	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	372087	155.12	ug/L	99
27) 1,1-Diclcethane	3.066	63	681621	153.05	ug/L	99
28) Vinyl Acetate	3.145	86	111377	193.09	ug/L	# 87
29) DIPE	3.188	45	1327738	154.12	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.175	53	606912	157.52	ug/L	97
31) ETBE	3.639	59	1323686	154.92	ug/L	99
32) 2,2-Dichloropropane	3.779	77	611976	156.76	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	431345	149.94	ug/L	99
34) 2-Butanone	3.828	43	312295	155.28	ug/L	100
35) Propionitrile	3.901	54	481043	792.37	ug/L	99
36) Bromochloromethane	4.120	130	257412	145.22	ug/L	96
37) Methacrylonitrile	4.126	67	225777	157.10	ug/L	97
38) Tetrahydrofuran	4.212	42	187446	147.34	ug/L	97
39) Chloroform	4.279	83	681487	149.60	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	623881	155.26	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1326438	156.09	ug/L	99
43) Cyclohexane	4.638	41	394576	153.93	ug/L	97
45) Carbontetrachloride	4.840	117	545688	160.38	ug/L	99
46) 1,1-Dichloropropene	4.852	75	532669	150.18	ug/L	98
48) Benzene	5.218	78	1503951	151.35	ug/L	98
49) 1,2-Dichloroethane	5.260	62	586597	147.34	ug/L	99
50) Iso-Butyl Alcohol	5.291	43	760547	3254.24	ug/L	98
51) n-Heptane	5.803	43	502879	159.27	ug/L	99
52) 1-Butanol	6.400	56	1234627	8932.92	ug/L	99
53) Trichloroethene	6.303	130	416631	150.61	ug/L	99
54) Methylcyclohexane	6.571	55	526476	158.72	ug/L	97
55) 1,2-Diclpropane	6.614	63	410461	153.54	ug/L	98
56) Dibromomethane	6.766	93	278824	153.83	ug/L	97
57) 1,4-Dioxane	6.858	88	189269	3093.96	ug/L	99
58) Methyl Methacrylate	6.894	69	388792	157.11	ug/L	97
59) Bromodichloromethane	7.028	83	550383	160.58	ug/L	99
60) 2-Nitropropane	7.345	41	334762	336.36	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	207488	191.01	ug/L	99
62) cis-1,3-Dichloropropene	8.333	75	680740	167.55	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	580006	157.58	ug/L	98
65) Toluene	8.034	91	1669856	152.46	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	680740	167.55	ug/L	99
67) Ethyl Methacrylate	8.510	69	683237	164.89	ug/L	100
68) 1,1,2-Trichloroethane	8.534	97	404386	154.81	ug/L	98
71) Tetrachloroethene	8.680	164	339480	149.40	ug/L	98
72) 2-Hexanone	8.875	43	453627	158.40	ug/L	99
73) 1,3-Dichloropropane	8.717	76	706782	153.09	ug/L	99
74) Dibromochloromethane	8.967	129	478018	167.17	ug/L	99
75) N-Butyl Acetate	9.064	43	928871	157.90	ug/L	99
76) 1,2-Dibromoethane	9.064	107	439888	158.68	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	659217	148.43	ug/L	100
78) Chlorobenzene	9.613	112	1137379	152.80	ug/L	100
79) 4-Chlorobenzotrifluoride	9.717	180	594070	145.56	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	430998	160.17	ug/L	99
81) Ethylbenzene	9.753	106	602888	154.40	ug/L	98
82) (m+p)Xylene	9.875	106	1508708	309.95	ug/L	99
83) o-Xylene	10.253	106	747398	157.14	ug/L	97
84) Styrene	10.272	104	1307857	160.62	ug/L	94
85) Bromoform	10.418	173	362594	173.87	ug/L	99
86) 2-Chlorobenzotrifluoride	10.521	180	654083	150.27	ug/L	99
87) Isopropylbenzene	10.613	105	1969309	156.74	ug/L	99
88) Cyclohexanone	10.668	55	2140534	3015.19	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.942	53	175407	159.82	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.887	83	648057	152.58	ug/L	99
92) Bromobenzene	10.857	156	511803	150.83	ug/L	92
93) 1,2,3-Trichloropropane	10.912	110	210912	148.13	ug/L #	89
94) n-Propylbenzene	10.985	91	2255744	153.78	ug/L	98
95) 2-Chlorotoluene	11.040	91	1347048	151.19	ug/L	99
96) 3-Chlorotoluene	11.101	91	1441443	148.45	ug/L	98
97) 4-Chlorotoluene	11.143	91	1614150	155.30	ug/L	99
98) 1,3,5-Trimethylbenzene	11.149	105	1647582	155.64	ug/L	100
99) tert-Butylbenzene	11.424	119	1438041	151.35	ug/L	99
100) 1,2,4-Trimethylbenzene	11.466	105	1678688	154.70	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.540	214	552782	149.97	ug/L	99
102) sec-Butylbenzene	11.613	105	2117461	157.72	ug/L	100
103) p-Isopropyltoluene	11.747	119	1824786	157.12	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	977070	151.76	ug/L	99
105) 1,4-Dclbenz	11.765	146	995028	148.15	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	506845	151.24	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	562715	148.83	ug/L	98
108) n-Butylbenzene	12.082	91	1665729	162.58	ug/L	99
109) 1,2-Dclbenz	12.070	146	980947	154.44	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	183537	159.23	ug/L	99
111) Trielution Dichlorotol...	12.838	125	2708743	461.40	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	753701	150.21	ug/L	99
113) Coelution Dichlorotoluene	13.161	125	1969467	308.29	ug/L	96
114) 1,2,4-Tcbenzene	13.368	180	726688	151.88	ug/L	100
115) Hexachlorobt	13.515	225	340552	158.62	ug/L	98
116) Naphthalen	13.557	128	2243284	155.39	ug/L	100
117) 1,2,3-Tclbenzene	13.746	180	716252	150.01	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	562491	159.52	ug/L	100
119) 2,3,6-Trichlorotoluene	14.423	159	507845	155.79	ug/L	98

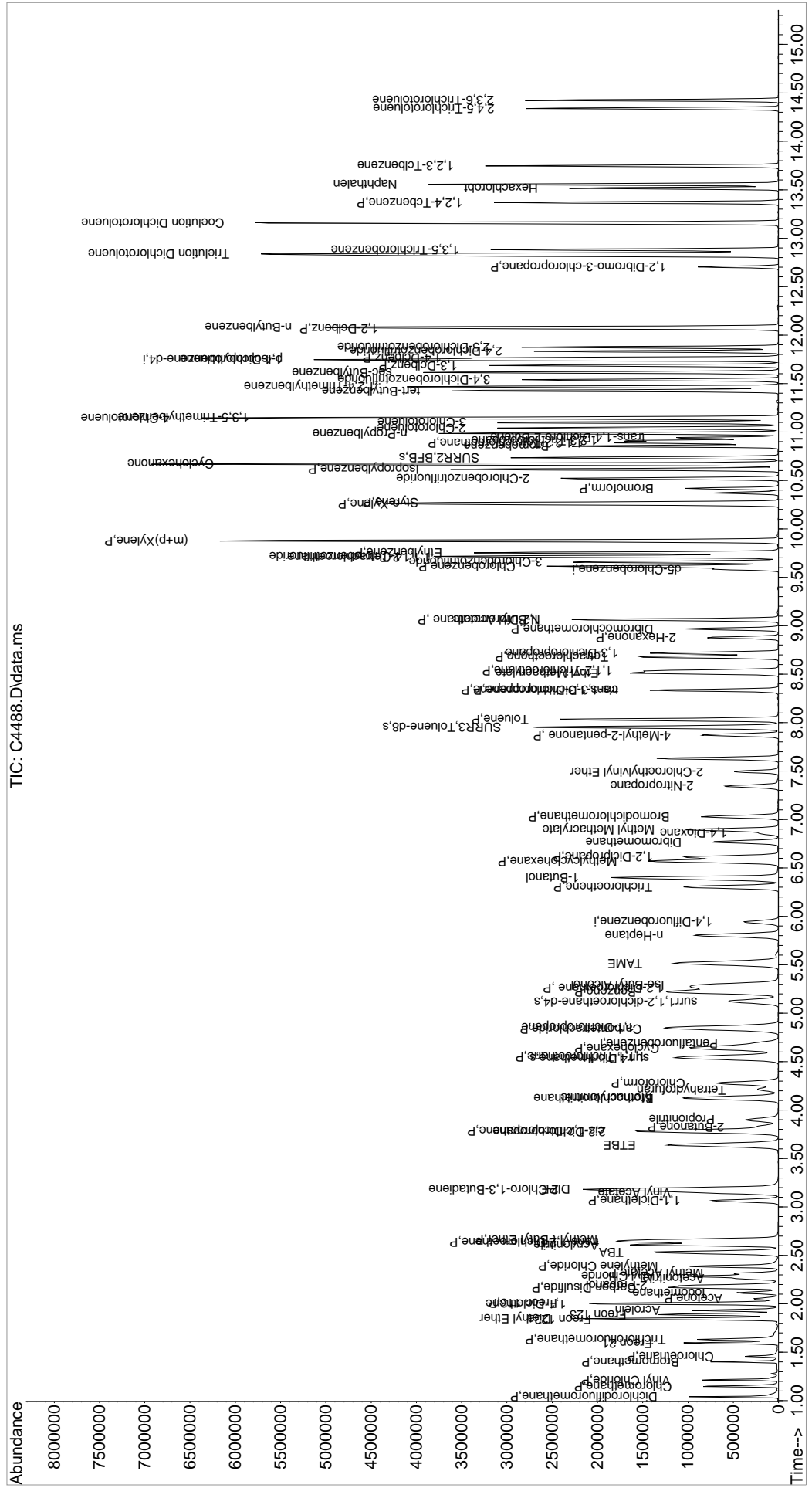
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

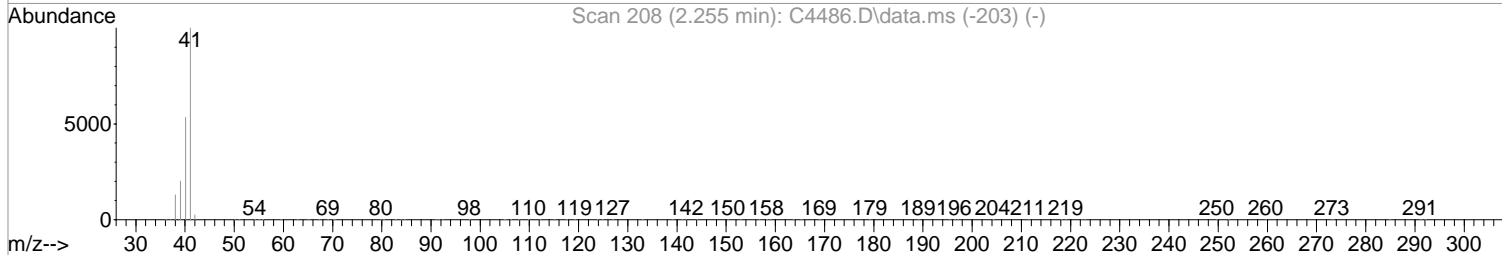
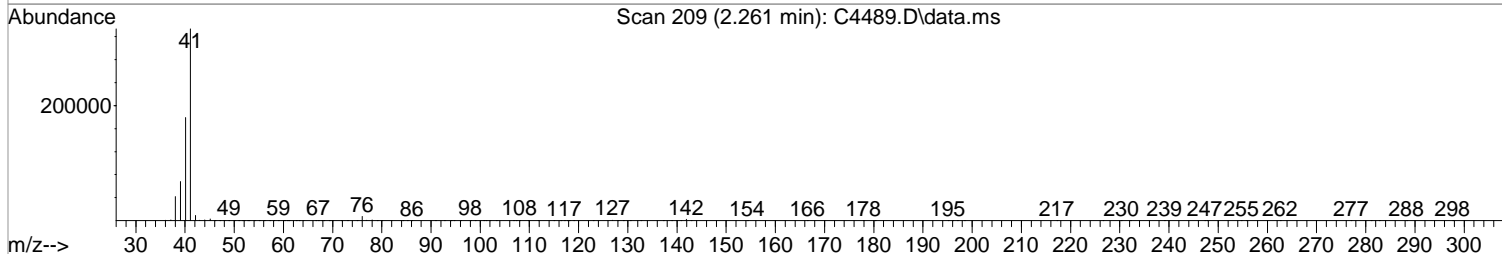
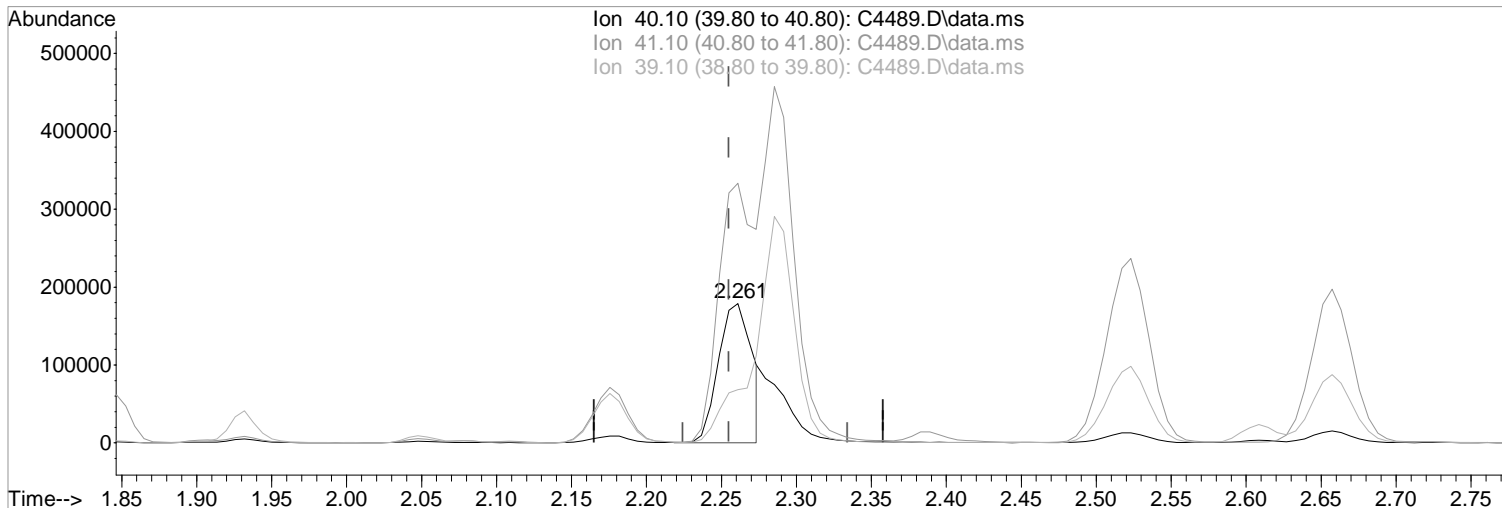
Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:42:46 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.006) 937.37 ug/L m  
response 278567

Manual Integration:  
After  
Poor integration.

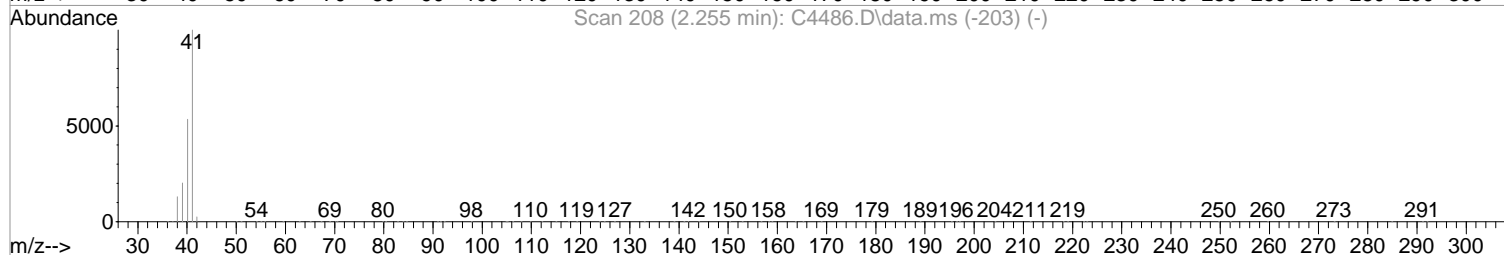
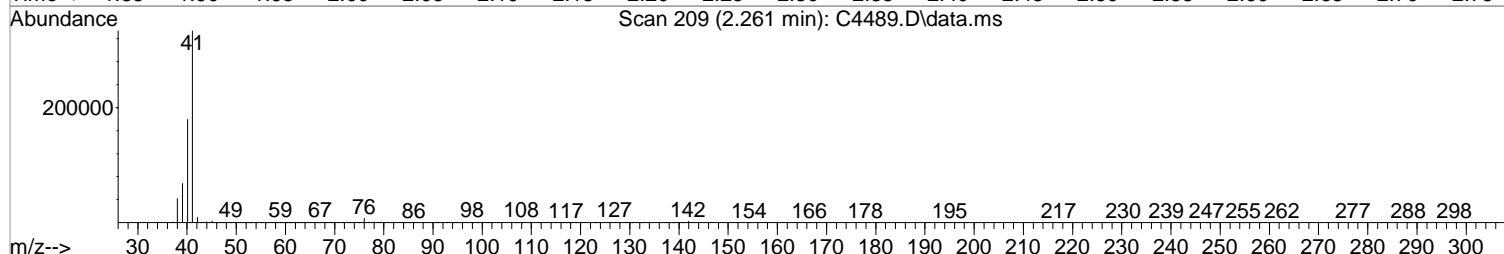
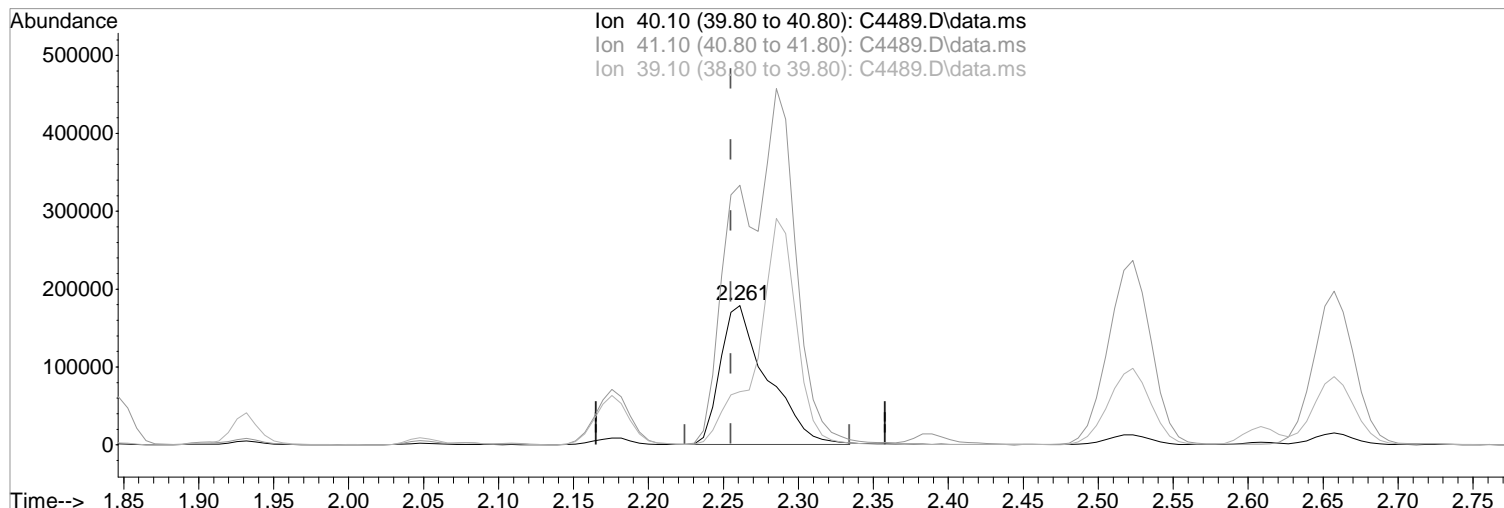
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	186.28
39.10	38.10	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:42:46 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



TIC: C4489.D\data.ms

(19) Acetonitrile  
2.261min (+0.006) 1305.19 ug/L  
response 387877

Manual Integration:  
Before

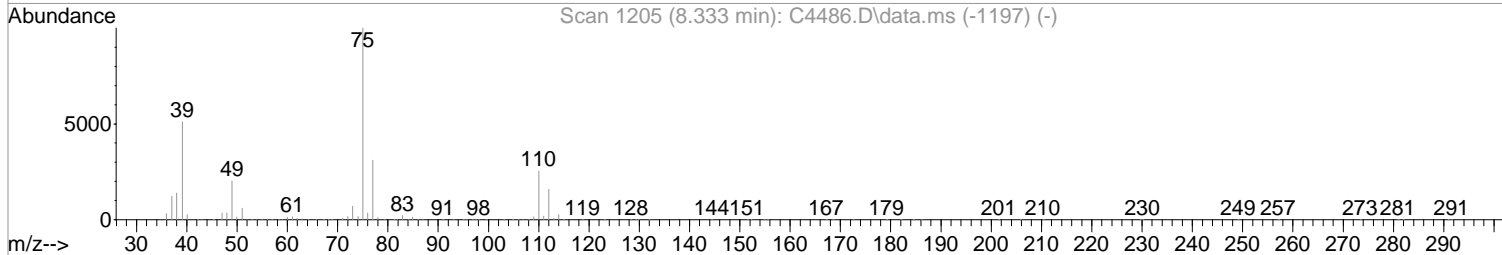
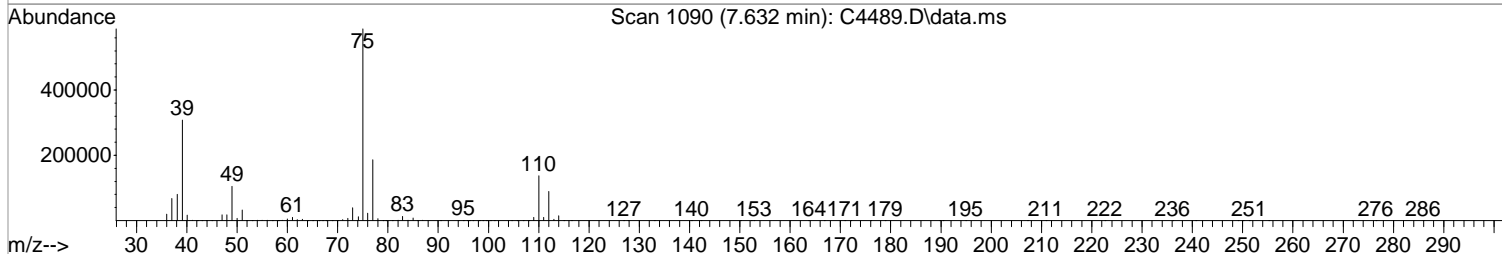
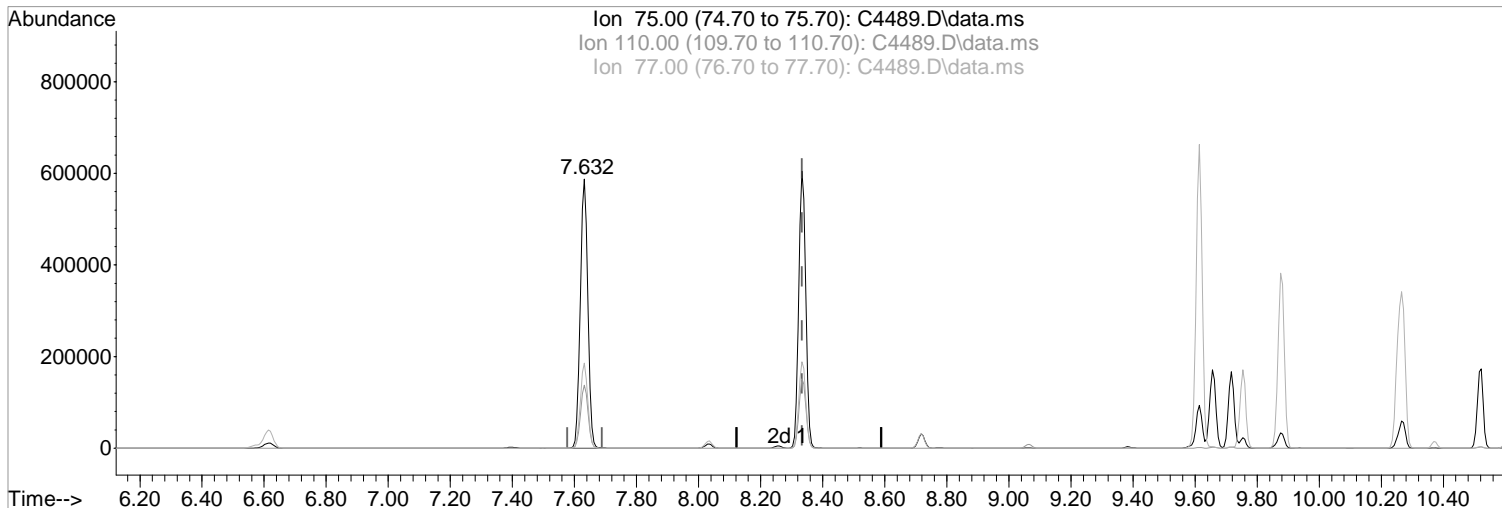
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	186.28
39.10	38.10	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:50:44 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 228.78 ug/L m

response 977893

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	23.44
77.00	31.10	31.65
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	252670	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	373676	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	338463	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.747	152	185251	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.535	113	123060	48.74	ug/L	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.48%	
47) surr1,1,2-dichloroetha...	5.126	65	147904	48.23	ug/L	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	96.46%	
64) SURR3,Toluene-d8	7.955	98	466248	49.29	ug/L	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.58%	
69) SURR2,BFB	10.735	95	187719	48.90	ug/L	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	97.80%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	733547	213.10	ug/L		99
3) Chloromethane	1.151	50	750038	184.89	ug/L		99
4) Vinyl Chloride	1.212	62	662742	204.01	ug/L		100
5) Bromomethane	1.401	94	290447	136.17	ug/L		98
6) Chloroethane	1.462	64	369897	195.02	ug/L		99
7) Freon 21	1.597	67	1002816	200.27	ug/L		100
8) Trichlorofluoromethane	1.639	101	720306	192.70	ug/L		99
9) Diethyl Ether	1.846	59	488697	210.12	ug/L		99
10) Freon 123a	1.846	67	626402	203.44	ug/L		97
11) Freon 123	1.889	83	735454	209.49	ug/L		97
12) Acrolein	1.932	56	773412	1095.05	ug/L		96
13) 1,1-Dicethene	2.005	96	484108	205.52	ug/L		97
14) Freon 113	2.011	101	460981	198.16	ug/L		100
15) Acetone	2.048	43	325967	191.69	ug/L		98
16) 2-Propanol	2.176	45	1446709	4443.34	ug/L		98
17) Iodomethane	2.115	142	609662	381.68	ug/L		100
18) Carbon Disulfide	2.170	76	1500298	221.32	ug/L		99
19) Acetonitrile	2.261	40	278567m	937.37	ug/L		
20) Allyl Chloride	2.285	76	213504	186.27	ug/L	#	87
21) Methyl Acetate	2.310	43	601196	198.43	ug/L		99
22) Methylene Chloride	2.389	84	542035	202.00	ug/L		98
23) TBA	2.523	59	2363082	4298.43	ug/L		98
24) Acrylonitrile	2.609	53	1541041	1083.08	ug/L		98
25) Methyl-t-Butyl Ether	2.657	73	1814913	203.12	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	521421	206.01	ug/L		97
27) 1,1-Dicethane	3.066	63	949751	202.50	ug/L		100
28) Vinyl Acetate	3.145	86	154649	254.45	ug/L	#	88
29) DIPE	3.188	45	1829489	205.13	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.175	53	843013	207.69	ug/L		99
31) ETBE	3.639	59	1830232	207.09	ug/L		100
32) 2,2-Dichloropropane	3.779	77	839913	203.59	ug/L		99
33) cis-1,2-Dichloroethene	3.785	96	600127	198.23	ug/L		99
34) 2-Butanone	3.828	43	437431	210.89	ug/L		98
35) Propionitrile	3.895	54	666438	1059.41	ug/L		99
36) Bromochloromethane	4.127	130	352519	192.31	ug/L		98
37) Methacrylonitrile	4.127	67	312408	209.23	ug/L		96
38) Tetrahydrofuran	4.212	42	264130	200.06	ug/L		100
39) Chloroform	4.279	83	951425	198.95	ug/L		100
40) 1,1,1-Trichloroethane	4.553	97	867757	204.13	ug/L		98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1823958	207.64	ug/L	99
43) Cyclohexane	4.645	41	536688	198.25	ug/L	98
45) Carbontetrachloride	4.846	117	761470	210.86	ug/L	98
46) 1,1-Dichloropropene	4.852	75	743746	199.14	ug/L	98
48) Benzene	5.218	78	2104302	201.68	ug/L	98
49) 1,2-Dichloroethane	5.260	62	806405	195.45	ug/L	99
50) Iso-Butyl Alcohol	5.285	43	1060949	4356.47	ug/L	97
51) n-Heptane	5.809	43	699718	206.47	ug/L	99
52) 1-Butanol	6.400	56	1741976	12035.34	ug/L	99
53) Trichloroethene	6.303	130	583973	200.89	ug/L	98
54) Methylcyclohexane	6.571	55	722083	206.15	ug/L	99
55) 1,2-Diclpropane	6.614	63	572912	204.62	ug/L	96
56) Dibromomethane	6.766	93	385303	204.54	ug/L	96
57) 1,4-Dioxane	6.858	88	261248	4110.65	ug/L	96
58) Methyl Methacrylate	6.894	69	534465	207.10	ug/L	98
59) Bromodichloromethane	7.028	83	765153	212.38	ug/L	99
60) 2-Nitropropane	7.345	41	467339	453.41	ug/L	99
61) 2-Chloroethylvinyl Ether	7.498	63	284592	245.86	ug/L	98
62) cis-1,3-Dichloropropene	8.333	75	944421	220.95	ug/L	100
63) 4-Methyl-2-pentanone	7.870	43	797287	209.18	ug/L	98
65) Toluene	8.034	91	2335181	202.99	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	944421	220.95	ug/L	100
67) Ethyl Methacrylate	8.510	69	941637	217.03	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	551951	203.30	ug/L	97
71) Tetrachloroethene	8.681	164	470440	195.49	ug/L	98
72) 2-Hexanone	8.876	43	626241	210.94	ug/L	99
73) 1,3-Dichloropropane	8.717	76	971319	201.81	ug/L	98
74) Dibromochloromethane	8.967	129	660273	218.82	ug/L	99
75) N-Butyl Acetate	9.065	43	1277656	209.46	ug/L	99
76) 1,2-Dibromoethane	9.065	107	608967	211.10	ug/L	96
77) 3-Chlorobenzotrifluoride	9.662	180	905402	196.68	ug/L	97
78) Chlorobenzene	9.613	112	1570697	200.38	ug/L	100
79) 4-Chlorobenzotrifluoride	9.717	180	813530	192.55	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.711	131	589922	207.73	ug/L	98
81) Ethylbenzene	9.753	106	838647	202.93	ug/L	94
82) (m+p)Xylene	9.875	106	2091316	405.69	ug/L	97
83) o-Xylene	10.253	106	1028529	204.58	ug/L	95
84) Styrene	10.272	104	1792592	208.31	ug/L	96
85) Bromoform	10.418	173	499638	226.42	ug/L	98
86) 2-Chlorobenzotrifluoride	10.522	180	897774	198.99	ug/L	98
87) Isopropylbenzene	10.613	105	2719644	203.97	ug/L	99
88) Cyclohexanone	10.668	55	2949149	4029.76	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.942	53	241015	209.20	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.887	83	875210	208.93	ug/L	99
92) Bromobenzene	10.857	156	701579	207.63	ug/L	91
93) 1,2,3-Trichloropropane	10.912	110	284265	203.25	ug/L	92
94) n-Propylbenzene	10.985	91	3098207	209.19	ug/L	98
95) 2-Chlorotoluene	11.040	91	1851643	206.99	ug/L	99
96) 3-Chlorotoluene	11.101	91	1967270	205.88	ug/L	98
97) 4-Chlorotoluene	11.143	91	2200527	210.43	ug/L	99
98) 1,3,5-Trimethylbenzene	11.150	105	2269578	212.58	ug/L	99
99) tert-Butylbenzene	11.424	119	1971527	206.17	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	2285669	209.25	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	742778	204.04	ug/L	99
102) sec-Butylbenzene	11.613	105	2902763	213.39	ug/L	99
103) p-Isopropyltoluene	11.747	119	2478127	210.72	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	1314363	204.20	ug/L	99
105) 1,4-Dclbenz	11.765	146	1332621	198.40	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	675216	203.53	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	750316	200.93	ug/L	97
108) n-Butylbenzene	12.082	91	2243131	215.19	ug/L	100
109) 1,2-Dclbenz	12.070	146	1303574	205.20	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	253454	220.99	ug/L	98
111) Trielution Dichlorotol...	12.832	125	3658799	630.56	ug/L	99
112) 1,3,5-Trichlorobenzene	12.887	180	1007187	203.60	ug/L	98
113) Coelution Dichlorotoluene	13.161	125	2665987	423.30	ug/L	97
114) 1,2,4-Tcbenzene	13.369	180	974011	203.46	ug/L	99
115) Hexachlorobt	13.515	225	454008	209.03	ug/L	97
116) Naphthalen	13.558	128	3060690	214.62	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	962105	202.89	ug/L	100
118) 2,4,5-Trichlorotoluene	14.338	159	729372	208.51	ug/L	100
119) 2,3,6-Trichlorotoluene	14.423	159	661695	205.52	ug/L	98

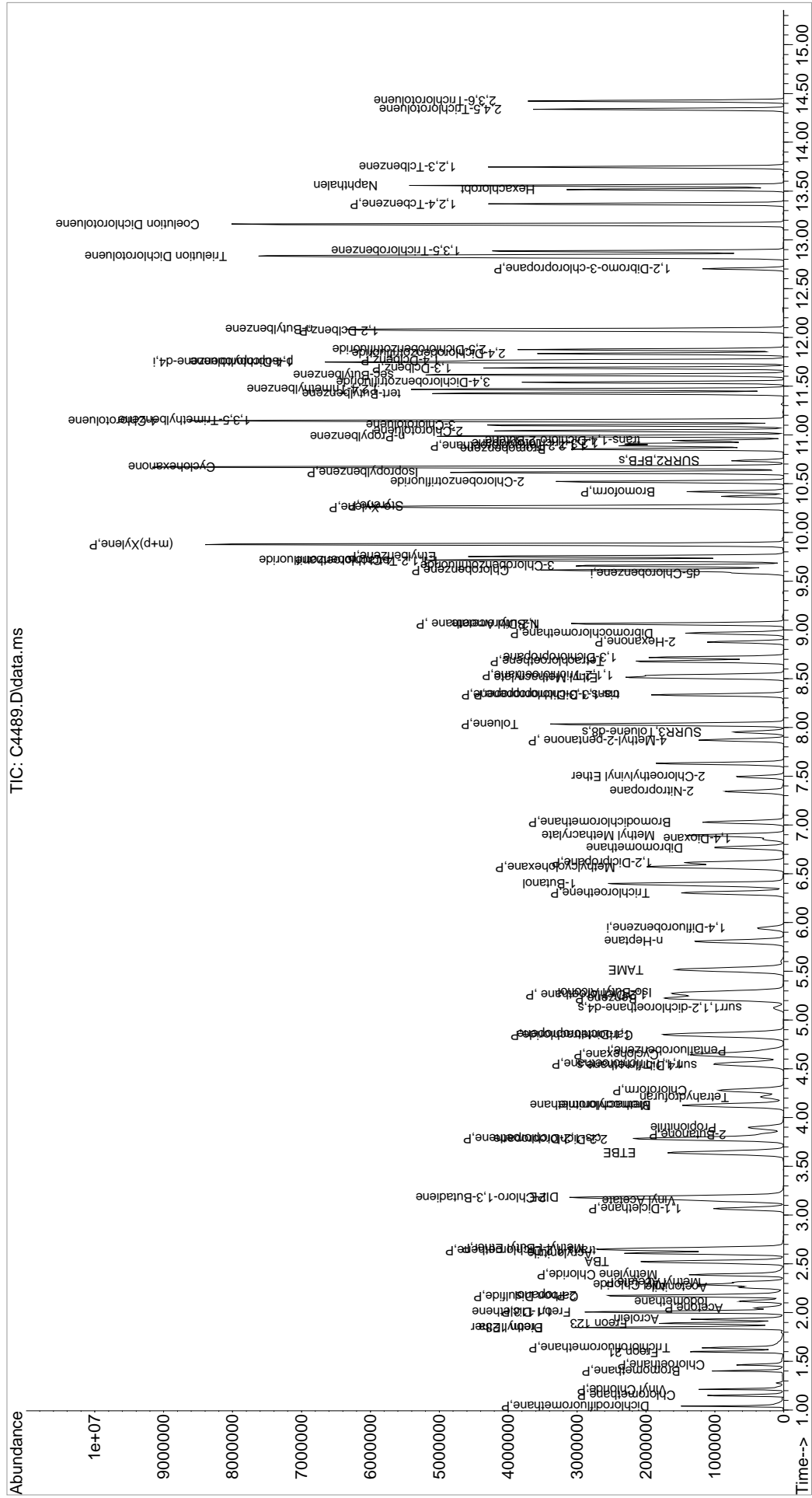
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

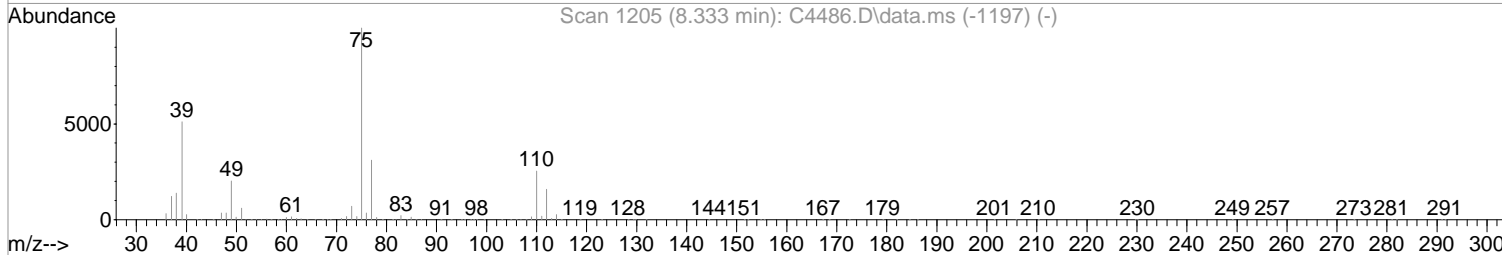
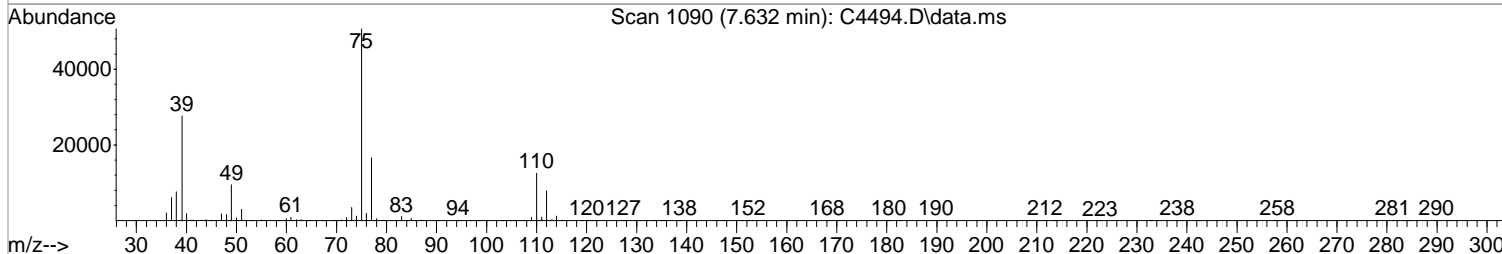
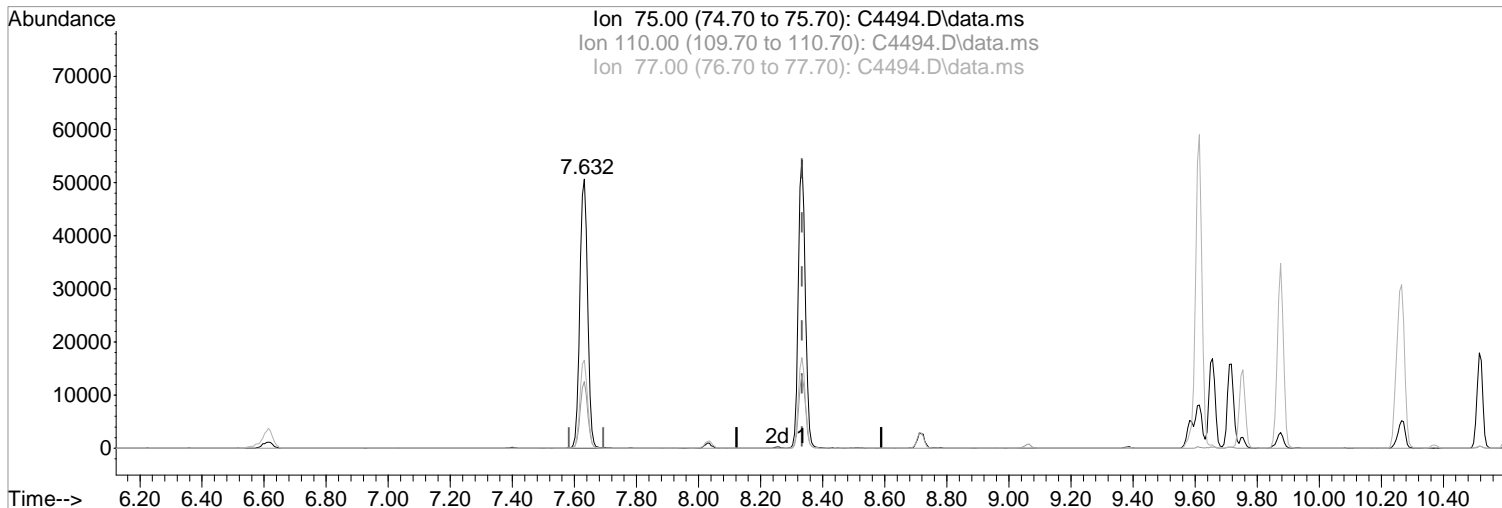




Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4494.D  
Acq On : 23 Jan 2018 4:22 pm  
Operator : F. NAEGLER  
Sample : 20 PPB STD  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 14:27:41 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:41:23 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 19.33 ug/L m

response 88708

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	24.74
77.00	31.10	32.75
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.694	168	270189	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	395719	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	351547	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	192804	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	48466	14.17	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	28.34%#		
47) surr1,1,2-dichloroetha...	5.120	65	60392	14.44	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	28.88%#		
64) SURR3,Toluene-d8	7.949	98	186186	14.40	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	28.80%#		
69) SURR2,BFB	10.735	95	71734	13.70	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	27.40%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	66233	17.62	ug/L	100
3) Chloromethane	1.152	50	71137	16.57	ug/L	100
4) Vinyl Chloride	1.212	62	60049	17.12	ug/L	98
5) Bromomethane	1.408	94	43322	19.70	ug/L	98
6) Chloroethane	1.475	64	36999	18.12	ug/L	99
7) Freon 21	1.603	67	87760	16.37	ug/L	97
8) Trichlorofluoromethane	1.645	101	67232	16.78	ug/L	99
9) Diethyl Ether	1.847	59	47068	18.73	ug/L	98
10) Freon 123a	1.847	67	51267	15.53	ug/L	97
11) Freon 123	1.889	83	58659	15.54	ug/L	96
12) Acrolein	1.932	56	70292	91.74	ug/L	99
13) 1,1-Dicethene	2.005	96	42837	16.84	ug/L	96
14) Freon 113	2.011	101	41363	16.55	ug/L	100
15) Acetone	2.048	43	32616	18.12	ug/L	94
16) 2-Propanol	2.157	45	115186	326.21	ug/L	99
17) Iodomethane	2.121	142	30808	16.08	ug/L	99
18) Carbon Disulfide	2.176	76	131656	18.05	ug/L	99
19) Acetonitrile	2.255	40	25865	82.46	ug/L	95
20) Allyl Chloride	2.292	76	21459	17.61	ug/L	# 88
21) Methyl Acetate	2.310	43	52165	16.17	ug/L	100
22) Methylene Chloride	2.389	84	51010	17.76	ug/L	98
23) TBA	2.505	59	201293	340.06	ug/L	100
24) Acrylonitrile	2.602	53	140502	91.19	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	176787	18.45	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	46859	17.20	ug/L	99
27) 1,1-Dicethane	3.066	63	86853	17.25	ug/L	99
28) Vinyl Acetate	3.145	86	13997	20.52	ug/L	# 88
29) DIPE	3.182	45	182200	19.46	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.176	53	77114	17.89	ug/L	95
31) ETBE	3.639	59	179382	19.25	ug/L	99
32) 2,2-Dichloropropane	3.779	77	75841	17.04	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	55900	17.31	ug/L	98
34) 2-Butanone	3.828	43	40025	17.88	ug/L	97
35) Propionitrile	3.889	54	60462	89.26	ug/L	98
36) Bromochloromethane	4.120	130	36126	18.44	ug/L	93
37) Methacrylonitrile	4.120	67	29536	18.39	ug/L	99
38) Tetrahydrofuran	4.212	42	24208	17.25	ug/L	98
39) Chloroform	4.279	83	89501	17.51	ug/L	99
40) 1,1,1-Trichloroethane	4.553	97	76968	16.81	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	178556	19.19	ug/L	98
43) Cyclohexane	4.645	41	44938	15.73	ug/L	97
45) Carbontetrachloride	4.840	117	63137	16.34	ug/L	98
46) 1,1-Dichloropropene	4.858	75	63811	16.10	ug/L	97
48) Benzene	5.218	78	190956	17.23	ug/L	99
49) 1,2-Dichloroethane	5.260	62	81342	18.64	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	88205	339.78	ug/L	100
51) n-Heptane	5.803	43	61795	17.04	ug/L	99
52) 1-Butanol	6.370	56	134893	863.52	ug/L	100
53) Trichloroethene	6.303	130	51984	16.86	ug/L	99
54) Methylcyclohexane	6.571	55	59410	15.95	ug/L	98
55) 1,2-Diclpropane	6.614	63	53272	17.87	ug/L	99
56) Dibromomethane	6.766	93	37280	18.58	ug/L	94
57) 1,4-Dioxane	6.852	88	23221	345.27	ug/L	97
58) Methyl Methacrylate	6.894	69	49771	18.14	ug/L	97
59) Bromodichloromethane	7.028	83	69397	18.02	ug/L	98
60) 2-Nitropropane	7.339	41	39381	35.58	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	22982	18.24	ug/L	97
62) cis-1,3-Dichloropropene	8.333	75	85244	18.57	ug/L	100
63) 4-Methyl-2-pentanone	7.870	43	71362	17.62	ug/L	99
65) Toluene	8.028	91	209577	17.14	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	85244	18.57	ug/L	100
67) Ethyl Methacrylate	8.510	69	84617	18.21	ug/L	100
68) 1,1,2-Trichloroethane	8.534	97	53758	18.69	ug/L	99
71) Tetrachloroethene	8.674	164	41982	16.79	ug/L	99
72) 2-Hexanone	8.870	43	55706	17.96	ug/L	95
73) 1,3-Dichloropropane	8.717	76	92749	18.51	ug/L	97
74) Dibromochloromethane	8.967	129	58467	18.41	ug/L	98
75) N-Butyl Acetate	9.059	43	108870	17.04	ug/L	99
76) 1,2-Dibromoethane	9.065	107	56075	18.55	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	94464	20.61	ug/L	98
78) Chlorobenzene	9.613	112	143048	17.54	ug/L	100
79) 4-Chlorobenzotrifluoride	9.717	180	83978	20.03	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	52845	17.79	ug/L	98
81) Ethylbenzene	9.754	106	73954	17.13	ug/L	100
82) (m+p)Xylene	9.875	106	182796	33.98	ug/L	100
83) o-Xylene	10.253	106	91711	17.42	ug/L	98
84) Styrene	10.266	104	161436	17.94	ug/L	98
85) Bromoform	10.418	173	41075	17.71	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	89382	19.82	ug/L	98
87) Isopropylbenzene	10.613	105	229954	16.51	ug/L	99
88) Cyclohexanone	10.662	55	269424	353.36	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	20231	16.90	ug/L	95
91) 1,1,2,2-Tetrachloroethane	10.887	83	79745	18.16	ug/L	97
92) Bromobenzene	10.851	156	65067	18.31	ug/L	99
93) 1,2,3-Trichloropropane	10.912	110	26830	18.36	ug/L #	84
94) n-Propylbenzene	10.985	91	261373	16.75	ug/L	100
95) 2-Chlorotoluene	11.040	91	162651	17.31	ug/L	98
96) 3-Chlorotoluene	11.095	91	192270	19.81	ug/L	99
97) 4-Chlorotoluene	11.137	91	193751	17.61	ug/L	99
98) 1,3,5-Trimethylbenzene	11.150	105	193086	17.13	ug/L	99
99) tert-Butylbenzene	11.424	119	166154	16.55	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	199426	17.38	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	77348	21.13	ug/L	99
102) sec-Butylbenzene	11.613	105	238616	16.61	ug/L	100
103) p-Isopropyltoluene	11.741	119	208235	16.80	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

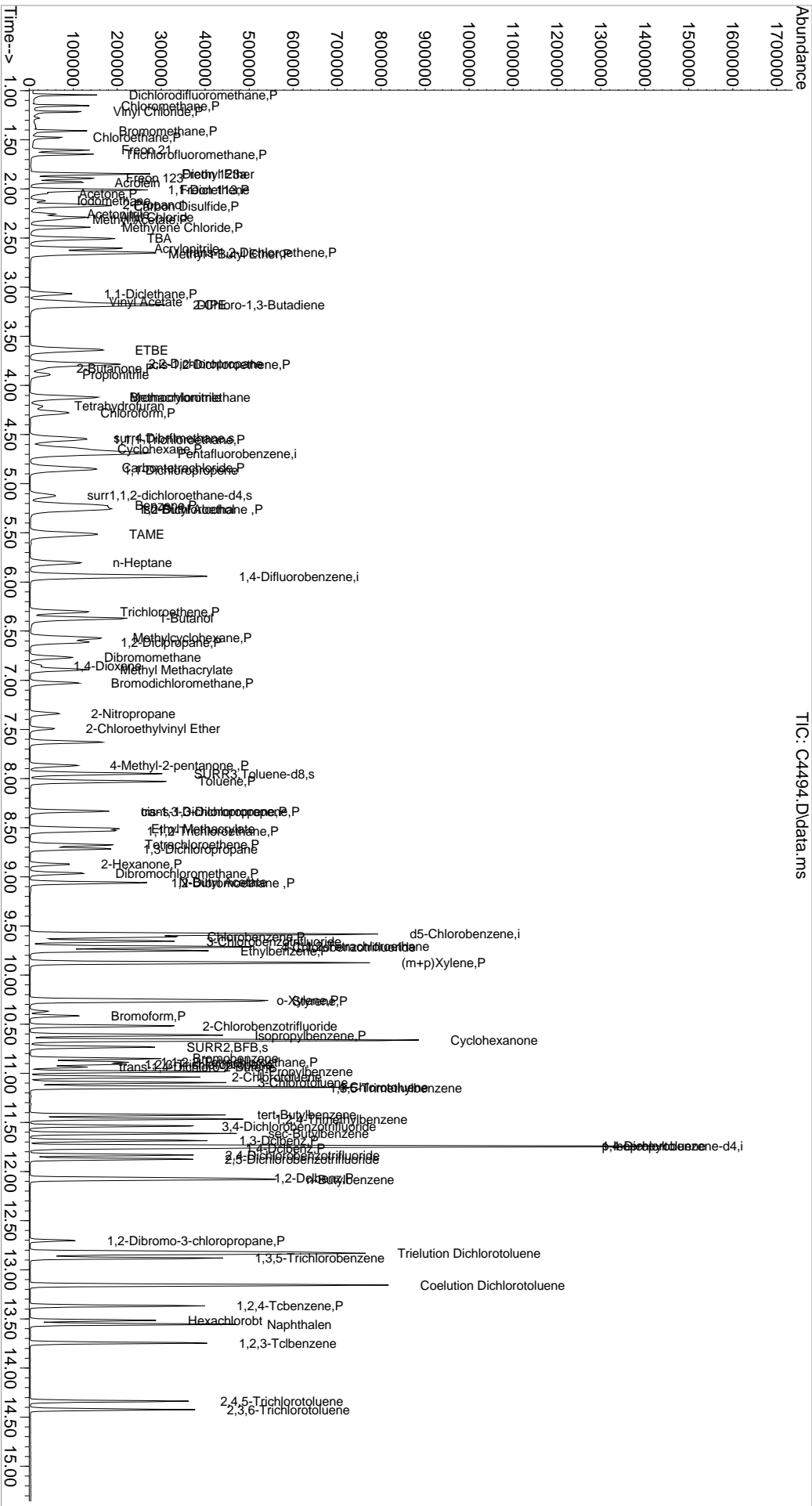
Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	120514	17.87	ug/L	99
105) 1,4-Dclbenz	11.765	146	123891	17.75	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	68861	20.61	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	77290	20.60	ug/L	99
108) n-Butylbenzene	12.082	91	184995	16.79	ug/L	98
109) 1,2-Dclbenz	12.070	146	122188	18.37	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	20053	16.68	ug/L	93
111) Trielution Dichlorotol...	12.832	125	358354	60.73	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	102274	20.38	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	261469	40.63	ug/L	98
114) 1,2,4-Tcbenzene	13.369	180	90607	18.12	ug/L	98
115) Hexachlorobt	13.515	225	40887	17.87	ug/L	96
116) Naphthalen	13.558	128	277621	18.47	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	90548	18.26	ug/L	98
118) 2,4,5-Trichlorotoluene	14.338	159	72673	20.39	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	66484	20.30	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st **FU** 01/24/18  
 2nd **R**  
 Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Inst : MSVOA14  
 PALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 MATERS 5ml Purge  
 QIast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration



**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801818  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800022-01	0.5 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4481.D	01/23/2018 11:27
02	RC1800022-02	1.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4482.D	01/23/2018 11:50
03	RC1800022-03	2.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4483.D	01/23/2018 12:12
04	RC1800022-04	5.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4484.D	01/23/2018 12:34
05	RC1800022-05	50 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4486.D	01/23/2018 13:19
06	RC1800022-06	100 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4487.D	01/23/2018 13:41
07	RC1800022-07	150 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4488.D	01/23/2018 14:03
08	RC1800022-08	200 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4489.D	01/23/2018 14:25
09	RC1800022-09	20 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4494.D	01/23/2018 16:22

**Analyte**

**1,1,1-Trichloroethane (TCA)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.825	02	1.000	0.8686	03	2.000	0.7968	04	5.000	0.8207
09	20.000	0.7122	05	50.000	0.8538	06	100.000	0.8833	07	150.000	0.8404
08	200.000	0.8586									

**1,1,2,2-Tetrachloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.208	02	1.000	1.083	03	2.000	1.11	04	5.000	1.076
09	20.000	1.034	05	50.000	1.15	06	100.000	1.151	07	150.000	1.137
08	200.000	1.181									

**1,1,2-Trichloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4044	02	1.000	0.322	03	2.000	0.3479	04	5.000	0.361
09	20.000	0.3396	05	50.000	0.3657	06	100.000	0.3739	07	150.000	0.368
08	200.000	0.3693									

**1,1,2-Trichloro-1,2,2-trifluoroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4935	02	1.000	0.438	03	2.000	0.4484	04	5.000	0.4474
09	20.000	0.3827	05	50.000	0.4674	06	100.000	0.4814	07	150.000	0.4463
08	200.000	0.4561									

**1,1-Dichloroethane (1,1-DCA)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9808	02	1.000	0.9046	03	2.000	0.8997	04	5.000	0.9049
09	20.000	0.8036	05	50.000	0.9214	06	100.000	0.9672	07	150.000	0.9182
08	200.000	0.9397									

**1,1-Dichloroethene (1,1-DCE)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4869	02	1.000	0.4366	03	2.000	0.4492	04	5.000	0.4529
09	20.000	0.3964	05	50.000	0.4718	06	100.000	0.4971	07	150.000	0.4684
08	200.000	0.479									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801818  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.404	02	1.000	1.241	03	2.000	1.249	04	5.000	1.266
09	20.000	1.174	05	50.000	1.262	06	100.000	1.281	07	150.000	1.256
08	200.000	1.298									

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.393	02	1.000	1.257	03	2.000	1.224	04	5.000	1.306
09	20.000	1.175	05	50.000	1.292	06	100.000	1.298	07	150.000	1.275
08	200.000	1.314									

1,2,4-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.131	02	1.000	2.863	03	2.000	2.852	04	5.000	2.83
09	20.000	2.586	05	50.000	2.986	06	100.000	3.029	07	150.000	2.945
08	200.000	3.085									

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3471	02	1.000	0.2822	03	2.000	0.2743	04	5.000	0.2986
09	20.000	0.26	05	50.000	0.3204	06	100.000	0.3223	07	150.000	0.3219
08	200.000	0.342									

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3949	02	1.000	0.4238	03	2.000	0.3895	04	5.000	0.4378
09	20.000	0.3988	05	50.000	0.4408	06	100.000	0.4527	07	150.000	0.4435
08	200.000	0.4498									

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.75	02	1.000	1.697	03	2.000	1.721	04	5.000	1.649
09	20.000	1.584	05	50.000	1.726	06	100.000	1.739	07	150.000	1.721
08	200.000	1.759									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5913	02	1.000	0.5301	03	2.000	0.55	04	5.000	0.557
09	20.000	0.5139	05	50.000	0.551	06	100.000	0.5511	07	150.000	0.5338
08	200.000	0.5395									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3744	02	1.000	0.3786	03	2.000	0.3616	04	5.000	0.3702
09	20.000	0.3366	05	50.000	0.3768	06	100.000	0.3874	07	150.000	0.3735
08	200.000	0.3833									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801818  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,3,5-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.817	02	1.000	2.762	03	2.000	2.877	04	5.000	2.882
09	20.000	2.504	05	50.000	2.938	06	100.000	3.005	07	150.000	2.89
08	200.000	3.063									

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.907	02	1.000	1.622	03	2.000	1.726	04	5.000	1.713
09	20.000	1.563	05	50.000	1.726	06	100.000	1.753	07	150.000	1.714
08	200.000	1.774									

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.043	02	1.000	1.771	03	2.000	1.853	04	5.000	1.753
09	20.000	1.606	05	50.000	1.752	06	100.000	1.772	07	150.000	1.745
08	200.000	1.798									

1,4-Dioxane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.009036	03	40.000	0.008018	04	100.000	0.008382	09	400.000	0.007335
05	1000.000	0.008403	06	2000.000	0.008572	07	3000.000	0.008611	08	4000.000	0.008739

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.4027	04	5.000	0.4085	09	20.000	0.3703	05	50.000	0.404
06	100.000	0.4165	07	150.000	0.4207	08	200.000	0.4328			

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.402	02	1.000	0.4333	03	2.000	0.4493	04	5.000	0.4347
09	20.000	0.3961	05	50.000	0.4455	06	100.000	0.448	07	150.000	0.4573
08	200.000	0.4626									

4-Isopropyltoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.244	02	1.000	3.009	03	2.000	3.113	04	5.000	3.133
09	20.000	2.7	05	50.000	3.219	06	100.000	3.3	07	150.000	3.201
08	200.000	3.344									

4-Methyl-2-pentanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5532	02	1.000	0.4649	03	2.000	0.5047	04	5.000	0.4848
09	20.000	0.4508	05	50.000	0.5104	06	100.000	0.5241	07	150.000	0.5278
08	200.000	0.5334									

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.368	04	5.000	0.3726	09	20.000	0.3018	05	50.000	0.3108



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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1801818  
Calibration Date: 1/23/2018

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Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	100.000	0.3144	07	150.000	0.3166	08	200.000	0.3225			

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.483	02	1.000	1.382	03	2.000	1.35	04	5.000	1.351
09	20.000	1.206	05	50.000	1.401	06	100.000	1.436	07	150.000	1.369
08	200.000	1.408									

Bromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3947	02	1.000	0.3318	03	2.000	0.3729	04	5.000	0.3716
09	20.000	0.3343	05	50.000	0.3598	06	100.000	0.3617	07	150.000	0.3467
08	200.000	0.3488									

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4767	02	1.000	0.4564	03	2.000	0.4562	04	5.000	0.468
09	20.000	0.4384	05	50.000	0.5006	06	100.000	0.5158	07	150.000	0.5008
08	200.000	0.5119									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3266	02	1.000	0.3133	03	2.000	0.2774	04	5.000	0.2948
09	20.000	0.2921	05	50.000	0.3433	06	100.000	0.3609	07	150.000	0.3655
08	200.000	0.369									

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6067	02	1.000	0.5558	03	2.000	0.5009	04	5.000	0.3658
09	20.000	0.4008	05	50.000	0.3636	06	100.000	0.2905	07	150.000	0.2712

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.387	02	1.000	1.249	03	2.000	1.258	04	5.000	1.287
09	20.000	1.218	05	50.000	1.382	06	100.000	1.399	07	150.000	1.429
08	200.000	1.484									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4705	02	1.000	0.4768	03	2.000	0.4435	04	5.000	0.4673
09	20.000	0.3989	05	50.000	0.504	06	100.000	0.5239	07	150.000	0.4966
08	200.000	0.5094									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.206	02	1.000	1.101	03	2.000	1.164	04	5.000	1.142
09	20.000	1.017	05	50.000	1.161	06	100.000	1.186	07	150.000	1.147

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Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	200.000	1.16									

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4365	02	1.000	0.3693	03	2.000	0.3383	04	5.000	0.3601
09	20.000	0.3423	05	50.000	0.3928	06	100.000	0.388	07	150.000	0.2707
08	200.000	0.366									

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.068	02	1.000	0.9097	03	2.000	0.924	04	5.000	0.9051
09	20.000	0.8281	05	50.000	0.9287	06	100.000	0.9708	07	150.000	0.918
08	200.000	0.9414									

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9851	02	1.000	0.8035	03	2.000	0.8183	04	5.000	0.74
09	20.000	0.6582	05	50.000	0.7646	06	100.000	0.7704	07	150.000	0.7372
08	200.000	0.7421									

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3625	03	2.000	0.3647	04	5.000	0.3495	09	20.000	0.2839
05	50.000	0.3713	06	100.000	0.3664	07	150.000	0.359	08	200.000	0.3591

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4533	02	1.000	0.3986	03	2.000	0.4199	04	5.000	0.4101
09	20.000	0.4158	05	50.000	0.4722	06	100.000	0.4842	07	150.000	0.4819
08	200.000	0.4877									

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6885	02	1.000	0.6476	03	2.000	0.6298	04	5.000	0.6149
09	20.000	0.6128	05	50.000	0.7266	06	100.000	0.7515	07	150.000	0.7093
08	200.000	0.7258									

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5567	02	1.000	0.4947	03	2.000	0.5616	04	5.000	0.5129
09	20.000	0.472	05	50.000	0.5206	06	100.000	0.5456	07	150.000	0.5248
08	200.000	0.5363									

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6591	02	1.000	0.5791	03	2.000	0.5589	04	5.000	0.6192
09	20.000	0.5259	05	50.000	0.6173	06	100.000	0.6322	07	150.000	0.6078

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Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	200.000	0.6195									

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.052	02	1.000	1.865	03	2.000	1.894	04	5.000	1.934
09	20.000	1.635	05	50.000	2.004	06	100.000	2.052	07	150.000	1.985
08	200.000	2.009									

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.687	02	1.000	0.5648	03	2.000	0.6208	04	5.000	0.574
09	20.000	0.4827	05	50.000	0.5714	06	100.000	0.5936	07	150.000	0.5852
08	200.000	0.5948									

Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.82	02	1.000	1.708	03	2.000	1.744	04	5.000	1.771
09	20.000	1.636	05	50.000	1.761	06	100.000	1.809	07	150.000	1.765
08	200.000	1.796									

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4643	02	1.000	0.4501	03	2.000	0.4553	04	5.000	0.4574
09	20.000	0.3753	05	50.000	0.4874	06	100.000	0.4872	07	150.000	0.4791
08	200.000	0.4831									

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.299	02	1.000	1.175	03	2.000	1.203	04	5.000	1.248
09	20.000	1.148	05	50.000	1.311	06	100.000	1.345	07	150.000	1.318
08	200.000	1.324									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3547	02	1.000	0.3539	03	2.000	0.3709	04	5.000	0.3506
09	20.000	0.2986	05	50.000	0.3556	06	100.000	0.3607	07	150.000	0.3422
08	200.000	0.3475									

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.655	02	1.000	1.488	03	2.000	1.489	04	5.000	1.486
09	20.000	1.324	05	50.000	1.544	06	100.000	1.593	07	150.000	1.52
08	200.000	1.562									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.383	02	1.000	0.3947	03	2.000	0.389	04	5.000	0.3869

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Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	20.000	0.3284	05	50.000	0.3871	06	100.000	0.4028	07	150.000	0.3791
08	200.000	0.3907									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7424	02	1.000	0.7383	03	2.000	0.7578	04	5.000	0.7409
09	20.000	0.6221	05	50.000	0.7903	06	100.000	0.759	07	150.000	0.6494
08	200.000	0.7127									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6742	02	1.000	0.6391	03	2.000	0.5944	04	5.000	0.6035
09	20.000	0.5556	05	50.000	0.66	06	100.000	0.6805	07	150.000	0.6481
08	200.000	0.6557									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6688	02	1.000	0.5948	03	2.000	0.5802	04	5.000	0.5762
09	20.000	0.5172	05	50.000	0.5831	06	100.000	0.6095	07	150.000	0.581
08	200.000	0.5938									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5844	02	1.000	0.5416	03	2.000	0.5824	04	5.000	0.5924
09	20.000	0.5604	05	50.000	0.6375	06	100.000	0.6582	07	150.000	0.647
08	200.000	0.6542									

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7762	02	2.000	0.727	03	4.000	0.7519	04	10.000	0.7506
09	40.000	0.65	05	100.000	0.7769	06	200.000	0.7875	07	300.000	0.7605
08	400.000	0.7724									

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.924	02	1.000	2.665	03	2.000	2.652	04	5.000	2.708
09	20.000	2.399	05	50.000	2.853	06	100.000	2.97	07	150.000	2.922
08	200.000	3.027									

n-Propylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.215	02	1.000	3.915	03	2.000	3.851	04	5.000	3.893
09	20.000	3.389	05	50.000	4.036	06	100.000	4.114	07	150.000	3.957
08	200.000	4.181									

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**o-Xylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7409	02	1.000	0.6981	03	2.000	0.735	04	5.000	0.7259
09	20.000	0.6522	05	50.000	0.7672	06	100.000	0.7784	07	150.000	0.7535
08	200.000	0.7597									

**sec-Butylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.676	02	1.000	3.612	03	2.000	3.486	04	5.000	3.648
09	20.000	3.094	05	50.000	3.726	06	100.000	3.837	07	150.000	3.714
08	200.000	3.917									

**tert-Butylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.627	02	1.000	2.561	03	2.000	2.562	04	5.000	2.572
09	20.000	2.154	05	50.000	2.588	06	100.000	2.634	07	150.000	2.522
08	200.000	2.661									

**trans-1,2-Dichloroethene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4846	02	1.000	0.4941	03	2.000	0.501	04	5.000	0.4926
09	20.000	0.4336	05	50.000	0.5058	06	100.000	0.5267	07	150.000	0.5012
08	200.000	0.5159									

**trans-1,3-Dichloropropene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5873	02	1.000	0.4995	03	2.000	0.5264	04	5.000	0.5449
09	20.000	0.5385	05	50.000	0.5987	06	100.000	0.6273	07	150.000	0.6194
08	200.000	0.6318									

**4-Bromofluorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5643	09	20.000	0.4532	05	50.000	0.4979	06	100.000	0.4951
07	200.000	0.4972									

**Dibromofluoromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3789	09	20.000	0.3062	05	50.000	0.3292	06	100.000	0.3251
07	200.000	0.3182									

**Toluene-d8**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.409	09	20.000	1.176	05	50.000	1.239	06	100.000	1.219
07	200.000	1.196									

**Client:** Day Environmental, Incorporated  
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**Service Request:** R1801818  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	6.2	20	0.8288	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	4.9	20	1.126	0.300
1,1,2-Trichloroethane	TRG	Average RF	% RSD	6.4	20	0.3613	0.100
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	7.0	20	0.4513	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	5.5	20	0.9156	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	6.6	20	0.4598	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	4.8	20	1.27	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	4.8	20	1.282	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	5.6	20	2.923	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	9.9	20	0.3077	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	5.9	20	0.4257	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.3	20	1.705	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	3.9	20	0.5464	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	4.0	20	0.3714	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	5.6	20	2.86	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	5.6	20	1.722	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	6.5	20	1.788	0.500
1,4-Dioxane	TRG	Average RF	% RSD	6.2	20	0.008387	
2-Butanone (MEK)	TRG	Average RF	% RSD	4.8	20	0.4079	0.05
2-Hexanone	TRG	Average RF	% RSD	5.3	20	0.4365	0.05
4-Isopropyltoluene	TRG	Average RF	% RSD	6.2	20	3.14	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	6.6	20	0.506	0.05
Acetone	TRG	Average RF	% RSD	8.7	20	0.3295	0.05
Benzene	TRG	Average RF	% RSD	5.6	20	1.376	0.500
Bromochloromethane	TRG	Average RF	% RSD	5.6	20	0.358	
Bromodichloromethane	TRG	Average RF	% RSD	5.8	20	0.4805	0.200
Bromoform	TRG	Average RF	% RSD	10.6	20	0.327	0.100
Bromomethane	TRG	Quadratic	COD	0.9952	0.99	0.4194	0.100
Carbon Disulfide	TRG	Average RF	% RSD	6.9	20	1.344	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	8.0	20	0.4768	0.05
Chlorobenzene	TRG	Average RF	% RSD	4.8	20	1.143	0.500
Chloroethane	TRG	Average RF	% RSD	12.5	20	0.3627	0.100
Chloroform	TRG	Average RF	% RSD	6.8	20	0.9326	0.200
Chloromethane	TRG	Average RF	% RSD	11.5	20	0.7799	0.100

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**Calibration ID:** RC1800022  
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Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Cyclohexane	TRG	Average RF	% RSD	8.0	20	0.352	0.100
Dibromochloromethane	TRG	Average RF	% RSD	8.0	20	0.4471	0.100
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	7.8	20	0.6785	0.100
Dichloromethane	TRG	Average RF	% RSD	5.5	20	0.525	0.100
Ethylbenzene	TRG	Average RF	% RSD	6.7	20	0.6021	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	6.7	20	1.937	0.100
Methyl Acetate	TRG	Average RF	% RSD	9.2	20	0.586	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.2	20	1.757	0.100
Methylcyclohexane	TRG	Average RF	% RSD	7.6	20	0.4599	0.100
Styrene	TRG	Average RF	% RSD	5.7	20	1.263	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	5.8	20	0.3483	0.200
Toluene	TRG	Average RF	% RSD	6.1	20	1.518	0.400
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.6	20	0.3824	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	7.5	20	0.7236	0.100
Vinyl Chloride	TRG	Average RF	% RSD	6.5	20	0.6346	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	6.7	20	0.5894	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	7.2	20	0.6065	0.200
m,p-Xylenes	TRG	Average RF	% RSD	5.6	20	0.7503	0.100
n-Butylbenzene	TRG	Average RF	% RSD	7.2	20	2.791	
n-Propylbenzene	TRG	Average RF	% RSD	6.2	20	3.95	
o-Xylene	TRG	Average RF	% RSD	5.3	20	0.7345	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.5	20	3.635	
tert-Butylbenzene	TRG	Average RF	% RSD	6.0	20	2.542	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	5.3	20	0.4951	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	8.5	20	0.5749	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	7.9	20	0.5016	
Dibromofluoromethane	SURR	Average RF	% RSD	8.4	20	0.3315	
Toluene-d8	SURR	Average RF	% RSD	7.4	20	1.248	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801818  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1800022-10	50 PPB ICV	I:\ACQUADATA\MSVOA14\Data\012318\C4496.D	01/23/2018 17:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	51.1	8.288E-1	8.465E-1	2.13	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	49.7	1.126E0	1.118E0	-0.672	±30	Average RF
1,1,2-Trichloroethane	50.0	50.7	3.613E-1	3.66E-1	1.31	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2	4.513E-1	4.618E-1	2.33	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.0	9.156E-1	9.344E-1	2.06	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	50.2	4.598E-1	4.618E-1	0.440	±30	Average RF
1,2,3-Trichlorobenzene	50.0	49.3	1.27E0	1.252E0	-1.423	±30	Average RF
1,2,4-Trichlorobenzene	50.0	49.5	1.282E0	1.269E0	-1.015	±30	Average RF
1,2,4-Trimethylbenzene	50.0	50.7	2.923E0	2.966E0	1.45	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	47.7	3.077E-1	2.933E-1	-4.671	±30	Average RF
1,2-Dibromoethane	50.0	51.1	4.257E-1	4.348E-1	2.14	±30	Average RF
1,2-Dichlorobenzene	50.0	50.4	1.705E0	1.717E0	0.726	±30	Average RF
1,2-Dichloroethane	50.0	50.1	5.464E-1	5.473E-1	0.169	±30	Average RF
1,2-Dichloropropane	50.0	50.8	3.714E-1	3.771E-1	1.54	±30	Average RF
1,3,5-Trimethylbenzene	50.0	51.0	2.86E0	2.916E0	1.96	±30	Average RF
1,3-Dichlorobenzene	50.0	50.6	1.722E0	1.743E0	1.22	±30	Average RF
1,4-Dichlorobenzene	50.0	48.9	1.788E0	1.749E0	-2.205	±30	Average RF
1,4-Dioxane	1000	965	8.387E-3	8.097E-3	-3.462	±30	Average RF
2-Butanone (MEK)	50.0	51.2	4.079E-1	4.177E-1	2.39	±30	Average RF
2-Hexanone	50.0	50.3	4.365E-1	4.391E-1	0.582	±30	Average RF
4-Isopropyltoluene	50.0	50.6	3.14E0	3.178E0	1.22	±30	Average RF
4-Methyl-2-pentanone	50.0	50.0	5.06E-1	5.063E-1	0.046	±30	Average RF
Acetone	50.0	50.4	3.295E-1	3.321E-1	0.770	±30	Average RF
Benzene	50.0	50.6	1.376E0	1.392E0	1.14	±30	Average RF
Bromochloromethane	50.0	49.7	3.58E-1	3.555E-1	-0.696	±30	Average RF
Bromodichloromethane	50.0	52.2	4.805E-1	5.016E-1	4.38	±30	Average RF
Bromoform	50.0	50.1	3.27E-1	3.278E-1	0.231	±30	Average RF
Bromomethane	50.0	43.8	4.194E-1	3.208E-1	-12.456	±30	Quadratic
Carbon Disulfide	50.0	51.7	1.344E0	1.389E0	3.35	±30	Average RF
Carbon Tetrachloride	50.0	50.9	4.768E-1	4.851E-1	1.75	±30	Average RF
Chlorobenzene	50.0	49.9	1.143E0	1.14E0	-0.204	±30	Average RF
Chloroethane	50.0	53.0	3.627E-1	3.845E-1	6.03	±30	Average RF
Chloroform	50.0	50.9	9.326E-1	9.489E-1	1.74	±30	Average RF
Chloromethane	50.0	46.5	7.799E-1	7.253E-1	-7.012	±30	Average RF
Cyclohexane	50.0	48.7	3.52E-1	3.431E-1	-2.540	±30	Average RF



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1801818  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1800022-10	50 PPB ICV	I:\ACQUADATA\MSVOA14\Data\012318\C4496.D	01/23/2018 17:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Dibromochloromethane	50.0	50.6	4.471E-1	4.526E-1	1.23	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	45.4	6.785E-1	6.163E-1	-9.167	±30	Average RF
Dichloromethane	50.0	49.1	5.25E-1	5.152E-1	-1.880	±30	Average RF
Ethylbenzene	50.0	49.9	6.021E-1	6.008E-1	-0.210	±30	Average RF
Isopropylbenzene (Cumene)	50.0	48.7	1.937E0	1.885E0	-2.698	±30	Average RF
Methyl Acetate	50.0	47.9	5.86E-1	5.611E-1	-4.256	±30	Average RF
Methyl tert-Butyl Ether	50.0	49.6	1.757E0	1.744E0	-0.730	±30	Average RF
Methylcyclohexane	50.0	49.4	4.599E-1	4.545E-1	-1.184	±30	Average RF
Styrene	50.0	50.2	1.263E0	1.268E0	0.335	±30	Average RF
Tetrachloroethene (PCE)	50.0	48.9	3.483E-1	3.409E-1	-2.122	±30	Average RF
Toluene	50.0	50.0	1.518E0	1.518E0	0.017	±30	Average RF
Trichloroethene (TCE)	50.0	51.2	3.824E-1	3.917E-1	2.43	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	54.3	7.236E-1	7.857E-1	8.58	±30	Average RF
Vinyl Chloride	50.0	51.1	6.346E-1	6.488E-1	2.24	±30	Average RF
cis-1,2-Dichloroethene	50.0	49.6	5.894E-1	5.846E-1	-0.811	±30	Average RF
cis-1,3-Dichloropropene	50.0	51.7	6.065E-1	6.274E-1	3.45	±30	Average RF
m,p-Xylenes	100	99.4	7.503E-1	7.458E-1	-0.602	±30	Average RF
n-Butylbenzene	50.0	51.3	2.791E0	2.862E0	2.53	±30	Average RF
n-Propylbenzene	50.0	49.6	3.95E0	3.918E0	-0.814	±30	Average RF
o-Xylene	50.0	49.7	7.345E-1	7.297E-1	-0.656	±30	Average RF
sec-Butylbenzene	50.0	50.1	3.635E0	3.643E0	0.218	±30	Average RF
tert-Butylbenzene	50.0	49.0	2.542E0	2.491E0	-2.041	±30	Average RF
trans-1,2-Dichloroethene	50.0	51.3	4.951E-1	5.076E-1	2.54	±30	Average RF
trans-1,3-Dichloropropene	50.0	51.7	5.749E-1	5.941E-1	3.34	±30	Average RF
4-Bromofluorobenzene	50.0	49.0	5.016E-1	4.916E-1	-1.985	±30	Average RF
Dibromofluoromethane	50.0	48.6	3.315E-1	3.224E-1	-2.752	±30	Average RF
Toluene-d8	50.0	49.1	1.248E0	1.225E0	-1.808	±30	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1801818  
Date Analyzed: 03/08/18 11:46

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C  
File ID: I:\ACQUADATA\MSVOA14\Data\030818\C5385.D\  
Signal ID: 1

Calibration Date: 1/23/2018  
Calibration ID: RC1800022  
Analysis Lot: 582947  
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.8	0.8288	0.775	-6.5	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	43.4	1.1255	0.9758	-13.3	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	44.5	0.3613	0.3216	-11.0	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.1	0.4513	0.4704	4.2	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	52.2	0.9156	0.9563	4.4	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	48.8	0.4598	0.4489	-2.4	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	39.5	1.2702	1.0041	-20.9*	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	40.6	1.2815	1.0393	-18.9	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	46.8	2.9231	2.7371	-6.4	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	32.6	0.3077	0.2004	-34.9*	NA	±20	Average RF
1,2-Dibromoethane	50.0	44.6	0.4257	0.3796	-10.8	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	44.3	1.7051	1.5094	-11.5	NA	±20	Average RF
1,2-Dichloroethane	50.0	47.5	0.5464	0.5194	-4.9	NA	±20	Average RF
1,2-Dichloropropane	50.0	49.4	0.3714	0.3668	-1.2	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	47.4	2.8597	2.7138	-5.1	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	44.8	1.7219	1.5444	-10.3	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	43.8	1.7883	1.5661	-12.4	NA	±20	Average RF
1,4-Dioxane	1000	658	0.0084	0.0055	-34.2*	NA	±20	Average RF
2-Butanone (MEK)	50.0	46.1	0.4079	0.3761	-7.8	NA	±20	Average RF
2-Hexanone	50.0	44.4	0.4365	0.3873	-11.3	NA	±20	Average RF
4-Isopropyltoluene	50.0	44.6	3.1403	2.8033	-10.7	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	44.0	0.506	0.4453	-12.0	NA	±20	Average RF
Acetone	50.0	41.3	0.3295	0.272	-17.5	NA	±20	Average RF
Benzene	50.0	48.1	1.3763	1.3247	-3.8	NA	±20	Average RF
Bromochloromethane	50.0	48.9	0.358	0.3501	-2.2	NA	±20	Average RF
Bromodichloromethane	50.0	46.2	0.4805	0.4437	-7.7	NA	±20	Average RF
Bromoform	50.0	37.2	0.327	0.2435	-25.5*	NA	±20	Average RF
Bromomethane	50.0	48.2	0.4194	0.349	NA	-3.5	±20	Quadratic
Carbon Disulfide	50.0	49.9	1.3436	1.3415	-0.2	NA	±20	Average RF
Carbon Tetrachloride	50.0	43.3	0.4768	0.4125	-13.5	NA	±20	Average RF
Chlorobenzene	50.0	44.7	1.1426	1.0218	-10.6	NA	±20	Average RF
Chloroethane	50.0	51.7	0.3627	0.3751	3.4	NA	±20	Average RF
Chloroform	50.0	49.2	0.9326	0.9185	-1.5	NA	±20	Average RF
Chloromethane	50.0	45.5	0.7799	0.7104	-8.9	NA	±20	Average RF
Cyclohexane	50.0	53.7	0.352	0.3781	7.4	NA	±20	Average RF
Dibromochloromethane	50.0	42.9	0.4471	0.3836	-14.2	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	46.4	0.6785	0.6291	-7.3	NA	±20	Average RF
Dichloromethane	50.0	49.4	0.525	0.5186	-1.2	NA	±20	Average RF
Ethylbenzene	50.0	44.8	0.6021	0.5394	-10.4	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	45.4	1.9369	1.7581	-9.2	NA	±20	Average RF
Methyl Acetate	50.0	45.9	0.586	0.5384	-8.1	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	48.0	1.7565	1.6854	-4.0	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801818  
**Date Analyzed:** 03/08/18 11:46

**Continuing Calibration Verification (CCV) Summary  
Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\MSVOA14\Data\030818\C5385.D\  
**Signal ID:** 1

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800022  
**Analysis Lot:** 582947  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	52.7	0.4599	0.4845	5.3	NA	±20	Average RF
Styrene	50.0	45.4	1.2634	1.1463	-9.3	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	42.8	0.3483	0.2981	-14.4	NA	±20	Average RF
Toluene	50.0	45.6	1.5179	1.3849	-8.8	NA	±20	Average RF
Trichloroethene (TCE)	50.0	43.8	0.3824	0.3349	-12.4	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	48.5	0.7236	0.7016	-3.0	NA	±20	Average RF
Vinyl Chloride	50.0	49.4	0.6346	0.6273	-1.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	48.1	0.5894	0.5671	-3.8	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	47.3	0.6065	0.5739	-5.4	NA	±20	Average RF
m,p-Xylenes	100	90.3	0.7503	0.6775	-9.7	NA	±20	Average RF
n-Butylbenzene	50.0	47.0	2.7911	2.6246	-6.0	NA	±20	Average RF
n-Propylbenzene	50.0	48.9	3.9502	3.8669	-2.1	NA	±20	Average RF
o-Xylene	50.0	45.6	0.7345	0.6697	-8.8	NA	±20	Average RF
sec-Butylbenzene	50.0	46.2	3.6346	3.3589	-7.6	NA	±20	Average RF
tert-Butylbenzene	50.0	44.9	2.5425	2.2822	-10.2	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	49.6	0.4951	0.4909	-0.8	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	45.2	0.5749	0.5195	-9.6	NA	±20	Average RF
4-Bromofluorobenzene	50.0	47.5	0.5016	0.4767	-5.0	NA	±20	Average RF
Dibromofluoromethane	50.0	48.0	0.3315	0.3181	-4.0	NA	±20	Average RF
Toluene-d8	50.0	49.7	1.2479	1.2392	-0.7	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801818

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**582947  
**Instrument ID:**R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUADATA\MSVOA14\Data\030818\C5383.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	10:36:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5383.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	10:36:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5385.D	Continuing Calibration Verification	RQ1802100-06	3/8/2018	11:46:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5385.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	11:46:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5387.D	Lab Control Sample	RQ1802100-07	3/8/2018	13:04:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5387.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	13:04:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5390.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	14:14:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5390.D	Method Blank	RQ1802100-08	3/8/2018	14:14:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5391.D	MW-08 (6.0-8.0)	R1801818-001	3/8/2018	14:43:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5392.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	15:13:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5393.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	15:36:00	
I:\ACQUADATA\MSVOA14\Data\030818\C5394.D	ZZZZZZZ	ZZZZZZZ	3/8/2018	15:58:00	

Analysis: 8260C Analyst: F. Naegele pH strips: 206717 Tune Method: W012318A.M  
 Date: 3/8/18 Balance ID: 07/02 ResCl strips: - Run Method: ↓  
 Instr: MS 14 50 mL Class A used for dilution FV Syringes: 18116/77958 LIMS Run#: M1-582947/582951  
 Data Path: :\laqudata\msvooa\InstID\Date

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK							C5381	Y	
2	BLK							82	Y	
3	TUNE							83	Y	
1	CCV							84	(N)	
1	CCV							85	Y	
2	LCS							86	(N)	
3	MBLK							87	Y	
4	MBLK							88	(N)	
5	MED BLK	So. 2	1500					89	Y	
6	R1801818-001	109.5	↓	1266	4	3	-	90	Y	RQ1802100-04/-08
7								91	Y	
8										
9										
10										

T6 Primary 500 : 187973 - 500 / 500  
 H8L Primary : 188464 -  
 Fr Primary : 188036 -  
 OCC Primary : 186719 -  
 Primary

All samples = 5 mL + 5 mL combined IS/Surr. 5 mL purged  
 Fr Secondary 200 : 187905 - 500 / 500  
 T6 Secondary 500 : 188308 - 20 / 500  
 H8L Secondary : 188309 -  
 OCC Secondary : 186658 -  
 Secondary

Combined IS/Surr. -  
 Surrogate 50 : 188009  
 Internal Std 50 : 188008  
 Reagents:

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Low

Folder #: R1801818

Instrument: R-BALANCE-07

Lot # MeOH:

Lot # Sodium Bisulfate:

Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-208002392		R1801818-001	37.72	32.01		Manufacturer	5.71	0.88	2/28/2018	Field	3/7/2018	F. Naegler	67.9
17-208002394		R1801818-001	37.11	32.00		Manufacturer	5.11	0.98	2/28/2018	Field	3/7/2018	F. Naegler	67.9

Med Level based on 10 mLs MeOH  
Low Level based on 5 mL DI

# Method 5035 Tare Extraction Log

ALS Environmental - Rochester

Level: Medium

Folder #: R1801818

Instrument: R-BALANCE-07

Lot # MeOH:

Lot # Sodium Bisulfate:

Comments:

Serial #	Sample ID	Order #	Final WT (g)	Tare WT (g)	Bottle Prep/Tare Date	Tare Analyst	Sample WT (g)	DIL	Extraction Date	Extraction Analyst	Final WT Date	Final WT	% Solid
17-276000218		R1801818-001	38.89	33.55		Manufacturer	5.34	2.19	2/28/2018	Field	3/7/2018	F. Naegler	67.9

Med Level based on 10 mLs MeOH  
Low Level based on 5 mL DI



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** MW-08 (6.0-8.0)  
**Lab Code:** R1801818-001

**Service Request:** R1801818  
**Date Collected:** 02/28/18 12:10  
**Date Received:** 03/01/18 16:00  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	67.9	Percent	-	1	03/07/18 17:30	

# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot:

582874

Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801818-001	Total Solids	N/A		Soil	67.86 Percent		67.9 Percent	1 ✓					3/7/18 17:30	N	IV
R1801715-001	Total Solids	N/A		Soil	93.41 Percent		93.4 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-002	Total Solids	N/A		Soil	82.49 Percent		82.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-003	Total Solids	N/A		Soil	91.90 Percent		91.9 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-004	Total Solids	N/A		Soil	90.90 Percent		90.9 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-005	Total Solids	N/A		Soil	88.00 Percent		88.0 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-006	Total Solids	N/A		Soil	89.46 Percent		89.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801715-007	Total Solids	N/A		Soil	88.08 Percent		88.1 Percent	1 ✓					3/7/18 17:30	N	II
R1801718-001	Total Solids	N/A		Soil	87.61 Percent		87.6 Percent	1 ✓					3/7/18 17:30	N	I
R1801804-004	Total Solids	N/A		Soil	89.04 Percent		89.0 Percent	1 ✓					3/7/18 17:30	N	IV
R1801804-005	Total Solids	N/A		Soil	81.35 Percent		81.4 Percent	1 ✓					3/7/18 17:30	N	IV
RQ1802071-01	Total Solids	DUP	R1801804-005	Soil	82.93 Percent		82.9 Percent	1 ✓				2	3/7/18 17:30	N	IV
R1801830-001	Total Solids	N/A		Soil	88.74 Percent		88.7 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-001	Total Solids	N/A		Soil	89.33 Percent		89.3 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-002	Total Solids	N/A		Soil	90.88 Percent		90.9 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-003	Total Solids	N/A		Soil	85.54 Percent		85.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-004	Total Solids	N/A		Soil	92.50 Percent		92.5 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-005	Total Solids	N/A		Soil	87.70 Percent		87.7 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-006	Total Solids	N/A		Soil	84.70 Percent		84.7 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-007	Total Solids	N/A		Soil	89.34 Percent		89.3 Percent	1 ✓					3/7/18 17:30	N	II
R1801857-008	Total Solids	N/A		Soil	90.92 Percent		90.9 Percent	1 ✓					3/7/18 17:30	N	II
RQ1802071-02	Total Solids	DUP	R1801857-008	Soil	90.07 Percent		90.1 Percent	1 ✓				<1	3/7/18 17:30	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot: 582875

Method/Testcode: ALS SOP/Total Solids

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt.</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC?</u>	<u>Tier</u>
R1801861-002	Total Solids	N/A		Soil	86.77 Percent		86.8 Percent	1 ✓					3/7/18 17:30	N	II
R1801882-001	Total Solids	N/A		Soil	78.57 Percent		78.6 Percent	1 ✓					3/7/18 17:30	N	IV
R1801882-002	Total Solids	N/A		Soil	84.58 Percent		84.6 Percent	1 ✓					3/7/18 17:30	N	IV
R1801882-003	Total Solids	N/A		Soil	82.86 Percent		82.9 Percent	1 ✓					3/7/18 17:30	N	IV
R1801882-004	Total Solids	N/A		Soil	72.47 Percent		72.5 Percent	1 ✓					3/7/18 17:30	N	IV
RQ1802072-01	Total Solids	DUP	R1801882-004	Soil	73.20 Percent		73.2 Percent	1 ✓				1	3/7/18 17:30	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW  
 Pipet: NA  
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID R-BALANCE-17  
 Class 1 Weight Initial: 10.01  
 Date: 3/7/18  
 Time: 17:30  
 Oven ID 7  
 Final: 9.99

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
1	MB	219101	B) 2.6200	Dry wgt (A): 2.6000		1.00
			C)	550 wgt (D):		
2	R1801818-001	219102	B) 2.5600	Dry wgt (A): 9.4000		67.86
			C) 12.6400	550 wgt (D):		
3	R1801715-001	219103	B) 2.5600	Dry wgt (A): 12.6300		93.41
			C) 13.3400	550 wgt (D):		
4	R1801715-002	219104	B) 2.5700	Dry wgt (A): 12.1800		82.49
			C) 14.2200	550 wgt (D):		
5	R1801715-003	219105	B) 2.5800	Dry wgt (A): 12.1100		91.90
			C) 12.9500	550 wgt (D):		
6	R1801715-004	219106	B) 2.5900	Dry wgt (A): 12.7800		90.90
			C) 13.8000	550 wgt (D):		
7	R1801715-005	219107	B) 2.6000	Dry wgt (A): 11.6200		88.00
			C) 12.8500	550 wgt (D):		
8	R1801715-006	219108	B) 2.5900	Dry wgt (A): 12.6100		89.46
			C) 13.7900	550 wgt (D):		
9	R1801715-007	219109	B) 2.6000	Dry wgt (A): 11.9100		88.08
			C) 13.1700	550 wgt (D):		
10	R1801718-001	219110	B) 2.5700	Dry wgt (A): 12.1900		87.61
			C) 13.5500	550 wgt (D):		
11	R1801804-004	219111	B) 2.6200	Dry wgt (A): 12.9400		89.04
			C) 14.2100	550 wgt (D):		
12	R1801804-005	219112	B) 2.5900	Dry wgt (A): 11.9700		81.35
			C) 14.1200	550 wgt (D):		
13	R1801804-005 DUP	219113	B) 2.6300	Dry wgt (A): 13.1700		82.93
			C) 15.3400	550 wgt (D):		
14	R1801830-001	219114	B) 2.6000	Dry wgt (A): 12.1400		88.74
			C) 13.3500	550 wgt (D):		
15	R1801857-001	219115	B) 2.6200	Dry wgt (A): 11.7500		89.33
			C) 12.8400	550 wgt (D):		
16	R1801857-002	219116	B) 2.6200	Dry wgt (A): 12.9800		90.88
			C) 14.0200	550 wgt (D):		
17	R1801857-003	219117	B) 2.6000	Dry wgt (A): 11.1800		85.54
			C) 12.6300	550 wgt (D):		
18	R1801857-004	219118	B) 2.6300	Dry wgt (A): 12.1200		92.50
			C) 12.8900	550 wgt (D):		
19	R1801857-005	219119	B) 2.6100	Dry wgt (A): 11.8100		87.70
			C) 13.1000	550 wgt (D):		
20	R1801857-006	219120	B) 2.6100	Dry wgt (A): 11.5200		84.70
			C) 13.1300	550 wgt (D):		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : ALS SOP

Analyst: KAW Date: 3/7/18  
 Pipet: NA Time: 17:30  
 Thermolyne F48025-6048000 Muffle Furnace  
 Balance ID R-BALANCE-17 Oven ID 7  
 Class 1 Weight Initial: 10.01 Final: 9.99

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

**Where:** A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
21	R1801857-007	219121	B) 2.5900	Dry wgt (A): 13.3200		89.34
			C) 14.6000	550 wgt (D):		
22	R1801857-008	219122	B) 2.6200	Dry wgt (A): 12.8300		90.92
			C) 13.8500	550 wgt (D):		
23	R1801857-008 DUP	219123	B) 2.6000	Dry wgt (A): 12.3000		90.06
			C) 13.3700	550 wgt (D):		
24	MB	219124	B) 2.5800	Dry wgt (A): 2.6000		1.00
			C)	550 wgt (D):		
25	R1801861-002	219125	B) 2.5700	Dry wgt (A): 13.3900		86.77
			C) 15.0400	550 wgt (D):		
26	R1801882-001	219126	B) 2.6000	Dry wgt (A): 11.8000		78.57
			C) 14.3100	550 wgt (D):		
27	R1801882-002	219127	B) 2.6100	Dry wgt (A): 11.9900		84.58
			C) 13.7000	550 wgt (D):		
28	R1801882-003	219128	B) 2.5700	Dry wgt (A): 11.6600		82.86
			C) 13.5400	550 wgt (D):		
29	R1801882-004	219129	B) 2.6100	Dry wgt (A): 11.1900		72.47
			C) 14.4500	550 wgt (D):		
30	R1801882-004 DUP	219130	B) 2.5900	Dry wgt (A): 11.0300		73.20
			C) 14.1200	550 wgt (D):		

ALS Environmental  
 1565 Jefferson Rd., Rochester, NY 14623

General Chemistry Analytical Run Cover Sheet

Analyst: haw Date: 3/7/18

Analysis: % Solids Instrument:  R-Balance-17  
 R-Balance-18

Quality Control:

	Log Book #	Log Book Date	Log Book Page #	Stock Sol (m/Ls)	Stock Sol (mg/L)	Final Vol (mLs)	True Value (mg/L)
a) Standards Prep.:							
b) I/CCV Preparation:							
c) LCS Preparation:							
d) Matrix Spike Prep.:							

Instrument log filled in?  (N)

Comments:

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Production (optional):

	Start Time	End Time	Total (minutes)
Preparation Time :			
Analytical Time:			
Finish Time:			

# of Samples (including Mtx QC): \_\_\_\_\_  
 Repeats due to Sample: \_\_\_\_\_  
 Repeats due to Error: \_\_\_\_\_



March 16, 2018

Service Request No:R1801830

Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Accounts Payable,

Enclosed are the results of the sample(s) submitted to our laboratory March 01, 2018  
For your reference, these analyses have been assigned our service request number **R1801830**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS** 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)





**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1801830  
**Date Received:** 03/01/2018

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

One soil sample was received for analysis at ALS Environmental on 03/01/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The sample was received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

#### Semivolatile GC:

No significant anomalies were noted with this analysis.

#### General Chemistry:

No significant anomalies were noted with this analysis.

#### Subcontracted Analytical Parameters:

No significant anomalies were noted with this analysis.

#### Revision Comment:

Report initially labelled sample R1801830-001 as "TDW..." instead of "ITW..." This report has the corrected sample ID per the client request.

Approved by

A handwritten signature in black ink, appearing to read "Randy Kruller", written over a horizontal line.

Date

03/16/2018



**SAMPLE DETECTION SUMMARY**

<b>CLIENT ID: IDW-01 (Soil)</b>		<b>Lab ID: R1801830-001</b>					
<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>PQL</b>	<b>Units</b>	<b>Method</b>	
pH	9.71				pH Units	9045D	
Total Solids	88.7				Percent	ALS SOP	



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801830

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801830-001	IDW-01 (Soil)	3/1/2018	1510



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

# 49600

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <i>Bulls Head North, Rochester, NY</i>		Project Number <i>54645-1B</i>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																		
Project Manager <i>Jeff Danzinger</i>		Report CC		PRESERVATIVE																		
Company/Address <i>Day Environmental Inc</i>				NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 824 • CLP	GC/MS SVOAs • 8270 • 825	GC VOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Full TCLP	Lead (Flashed)	Resistivity	pH	PCB	PRESERVATIVE KEY					
1563 Lyell Avenue																	0. NONE					
Rochester, NY 14606																	1. HCL					
Phone # <i>585-454-0210</i>		Email <i>jdanzinger@dayenvi.net</i>															2. HNO <sub>3</sub>					
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <i>Jeff Danzinger</i>								3. H <sub>2</sub> SO <sub>4</sub>												
										4. NaOH												
										5. Zn. Acetate												
										6. MeOH												
										7. NaHSO <sub>4</sub>												
										8. Other												
										REMARKS/ ALTERNATE DESCRIPTION												

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX																	
		DATE	TIME																		
MW-08(6.0-8.0)		2/22/18	1210	Soil	4	X															
T100-01(6.0)		3/1/18	1510	Soil	2					X	X	X	X	X							

SPECIAL INSTRUCTIONS/COMMENTS <i>Metals</i>	TURNAROUND REQUIREMENTS	REPORT REQUIREMENTS	INVOICE INFORMATION
	RUSH (SURCHARGES APPLY) <input type="checkbox"/> 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day REQUESTED REPORT DATE _____	<input type="checkbox"/> I. Results Only <input checked="" type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data NYSDEC Equiv ETL Edata <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	See 1/24/18 quote from Christina Casano PO # <i>54645-1B</i> BILL TO:

STATE WHERE SAMPLES WERE COLLECTED		RECEIVED BY		RECEIVED BY		RECEIVED BY		RECEIVED BY	
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY	
Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>	Signature <i>[Signature]</i>
Printed Name <i>Jeff Danzinger</i>	Printed Name <i>Emmanuel Ward</i>	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm <i>Day Environmental</i>	Firm <i>ALS</i>	Firm	Firm	Firm	Firm	Firm	Firm	Firm	Firm
Date/Time <i>3/1/18 @ 4:00 PM</i>	Date/Time <i>3/1/18 / 1600</i>	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

**R1801830** **5**

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



# Cooler Receipt and Preservation Check Form

R1801830

5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day Env Folder Number \_\_\_\_\_

Cooler received on 3/1/18 by: Sh

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> N
4	Circle: <del>Wet Ice</del> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <input checked="" type="checkbox"/>
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore <u>5035set</u> NA

8. Temperature Readings Date: 3/1/18 Time: 1615 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.8</u>						
Correction Factor (°C)	<u>4.6</u>						
Corrected Temp (°C)	<u>4.8</u>						
Temp from: Type of bottle	<u>cont. tube</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by Sh on 3/1/18 at 1615  
5035 samples placed in storage location: R-FM by J on 1 at J

Cooler Breakdown: Date: 3/5/18 Time: 1040 by: Q

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES NO
- 10. Did all bottle labels and tags agree with custody papers?  YES NO
- 11. Were correct containers used for the tests indicated?  YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated  N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 080717- MW  
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
<u>PH</u>	<u>SUB</u>
SO3	MARRS
ALS	REV

Labels secondary reviewed by: Q  
PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



# Miscellaneous Forms

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## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>



# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801830

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Soil	Total Solids

**ALS Group USA, Corp.**

dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801830

**Sample Name:** IDW-01 (Soil)  
**Lab Code:** R1801830-001  
**Sample Matrix:** Soil

**Date Collected:** 03/1/18  
**Date Received:** 03/1/18

**Analysis Method**

8082A  
9045D  
ALS SOP

**Extracted/Digested By**

MPEDRO

**Analyzed By**

MPEDRO  
GLAFORCE  
KWONG



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

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## Semivolatile Organic Compounds by GC

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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801830  
**Date Collected:** 03/01/18 15:10  
**Date Received:** 03/01/18 16:00

**Sample Name:** IDW-01 (Soil)  
**Lab Code:** R1801830-001

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	37 U	37	1	03/08/18 12:24	3/6/18	
Aroclor 1221	75 U	75	1	03/08/18 12:24	3/6/18	
Aroclor 1232	37 U	37	1	03/08/18 12:24	3/6/18	
Aroclor 1242	37 U	37	1	03/08/18 12:24	3/6/18	
Aroclor 1248	37 U	37	1	03/08/18 12:24	3/6/18	
Aroclor 1254	37 U	37	1	03/08/18 12:24	3/6/18	
Aroclor 1260	37 U	37	1	03/08/18 12:24	3/6/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	22 - 128	03/08/18 12:24	
Tetrachloro-m-xylene	88	14 - 119	03/08/18 12:24	



## General Chemistry

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ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** IDW-01 (Soil)  
**Lab Code:** R1801830-001

**Service Request:** R1801830  
**Date Collected:** 03/01/18 15:10  
**Date Received:** 03/01/18 16:00  
**Basis:** As Received

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
pH	9045D	<b>9.71</b>	pH Units	-	1	03/12/18 12:05	H
Total Solids	ALS SOP	<b>88.7</b>	Percent	-	1	03/07/18 17:30	



## QC Summary Forms

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## Semivolatile Organic Compounds by GC

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[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801830

**SURROGATE RECOVERY SUMMARY**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		22 - 128	14 - 119
IDW-01 (Soil)	R1801830-001	85	88
Method Blank	RQ1801963-01	88	84
Lab Control Sample	RQ1801963-02	91	82
Duplicate Lab Control Sample	RQ1801963-03	96	84
IDW-01 (Soil) MS	RQ1801963-04	82	80
IDW-01 (Soil) DMS	RQ1801963-05	77	84

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801830  
**Date Collected:** 03/01/18  
**Date Received:** 03/01/18  
**Date Analyzed:** 03/8/18  
**Date Extracted:** 03/6/18

**Duplicate Matrix Spike Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Sample Name:** IDW-01 (Soil)  
**Lab Code:** R1801830-001  
**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

Analyte Name	Sample Result	Result	Matrix Spike RQ1801963-04		Duplicate Matrix Spike RQ1801963-05		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Aroclor 1016	37 U	160	187	86	176	188	94	18-144	10	30
Aroclor 1260	37 U	165	187	88	162	188	86	19-162	1	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801830  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1801963-01

**Units:** ug/Kg  
**Basis:** Dry

**Polychlorinated Biphenyls (PCBs) by GC**

**Analysis Method:** 8082A  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	33 U	33	1	03/07/18 16:30	3/6/18	
Aroclor 1221	67 U	67	1	03/07/18 16:30	3/6/18	
Aroclor 1232	33 U	33	1	03/07/18 16:30	3/6/18	
Aroclor 1242	33 U	33	1	03/07/18 16:30	3/6/18	
Aroclor 1248	33 U	33	1	03/07/18 16:30	3/6/18	
Aroclor 1254	33 U	33	1	03/07/18 16:30	3/6/18	
Aroclor 1260	33 U	33	1	03/07/18 16:30	3/6/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	88	22 - 128	03/07/18 16:30	
Tetrachloro-m-xylene	84	14 - 119	03/07/18 16:30	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1801830  
**Date Analyzed:** 03/07/18

**Duplicate Lab Control Sample Summary**  
**Polychlorinated Biphenyls (PCBs) by GC**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Analytical Method	Result	Lab Control Sample		Duplicate Lab Control Sample		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Aroclor 1016	8082A	144	167	86	160	167	96	43-129	11	30
Aroclor 1260	8082A	157	167	94	172	167	103	49-135	9	30



## Subcontracted Analytical Parameters

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March 16, 2018

Reports and Invoices  
ALS Environmental  
1565 Jefferson Road  
Building 300, Suite 360  
Rochester, NY 14623

## Certificate of Analysis

Project Name:	<b>EQUIS EDD, QC, NO MDL</b>	Workorder:	<b>2299570</b>
Purchase Order:	<b>581801830</b>	Workorder ID:	<b>AER285 R1801830</b>

Dear Reports Invoices:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, March 6, 2018.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vanessa N Badman (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Brady Kalkman , Ms. Ellen Smith , Ms. Lisa Reyes , Ms. Janice Jaeger , Mr. Carlton Beechler

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

Mrs. Vanessa N Badman  
Project Coordinator

### ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### SAMPLE SUMMARY

Workorder: 2299570 AER285|R1801830

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Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2299570001	IDW-01 (Soil)	Solid	3/1/2018 15:10	3/6/2018 08:46	Collected by Client

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#### ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

## SAMPLE SUMMARY

Workorder: 2299570 AER285|R1801830

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

### Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

## ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

### ANALYTICAL RESULTS

Workorder: 2299570 AER285|R1801830

**Lab ID:** 2299570001      **Date Collected:** 3/1/2018 15:10      **Matrix:** Solid  
**Sample ID:** IDW-01 (Soil)      **Date Received:** 3/6/2018 08:46

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
<b>TCLP VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
2-Butanone	ND		ug/L	200	SW846 8260B			3/12/18 21:04	TMP	A
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
Chloroform	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
Trichloroethene	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			3/12/18 21:04	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260B			3/12/18 21:04	TMP	A
4-Bromofluorobenzene (S)	112		%	79 - 114	SW846 8260B			3/12/18 21:04	TMP	A
Dibromofluoromethane (S)	92.8		%	78 - 116	SW846 8260B			3/12/18 21:04	TMP	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			3/12/18 21:04	TMP	A
<b>WET CHEMISTRY</b>										
Cyanide, Reactive	ND		ppm	10	SW-846 7.3CN	3/7/18 07:30	VXF	3/8/18 11:33	MNP	A
Ignitability	Not ignitable	1			SW846 1030			3/13/18 10:10	SDL	A
Moisture	12.9		%	0.1	S2540G-11			3/9/18 13:30	AXD	
Sulfide, Reactive	ND		ppm	6.2	SW846 7.3	3/7/18 07:30	VXF	3/7/18 15:05	VXF	A
Total Solids	87.1		%	0.1	S2540G-11			3/9/18 13:30	AXD	
<b>TCLP METALS</b>										
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
Barium, Total	ND		mg/L	2.8	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
Chromium, Total	ND		mg/L	0.028	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
Lead, Total	0.16		mg/L	0.033	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	3/12/18 08:00	AXC	3/12/18 11:09	AXC	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
Silver, Total	0.11		mg/L	0.022	SW846 6010C	3/12/18 03:25	SRT	3/12/18 05:48	DAG	A1
<b>TCLP SEMI-VOLATILES</b>										
mp-Cresol	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
o-Cresol	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A

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**ANALYTICAL RESULTS**

Workorder: 2299570 AER285|R1801830

Lab ID: **2299570001** Date Collected: 3/1/2018 15:10 Matrix: Solid  
Sample ID: **IDW-01 (Soil)** Date Received: 3/6/2018 08:46

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Pentachlorophenol	ND		ug/L	120	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Pyridine	ND	2	ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
2,4,5-Trichlorophenol	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
2,4,6-Trichlorophenol	ND		ug/L	60.0	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	81.9		%	47 - 128	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
2-Fluorobiphenyl (S)	41.8	3	%	52 - 118	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
2-Fluorophenol (S)	43.8		%	20 - 87	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Nitrobenzene-d5 (S)	64.6		%	27 - 139	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Phenol-d5 (S)	27.5		%	10 - 81	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
Terphenyl-d14 (S)	115		%	46 - 133	SW846 8270D	3/12/18 11:15	DXL	3/13/18 17:41	CGS	A
<b>TCLP PESTICIDES</b>										
gamma-BHC	ND		ug/L	0.40	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Endrin	ND		ug/L	0.40	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Heptachlor	ND		ug/L	0.40	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Heptachlor Epoxide	ND		ug/L	0.40	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Methoxychlor	ND		ug/L	0.40	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Decachlorobiphenyls (S)	75		%	30 - 140	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
Tetrachloro-m-xylene (S)	52.9		%	30 - 123	SW846 8081B	3/13/18 09:35	DXL	3/13/18 21:05	RWS	A
<b>TCLP HERBICIDES</b>										
2,4-D	ND		ug/L	4.0	SW846 8151A	3/13/18 20:30	AXS	3/14/18 13:45	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	3/13/18 20:30	AXS	3/14/18 13:45	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4-Dichlorophenylacetic acid (S)	109		%	14 - 172	SW846 8151A	3/13/18 20:30	AXS	3/14/18 13:45	KJH	A

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**ANALYTICAL RESULTS**

Workorder: 2299570 AER285|R1801830

Lab ID: **2299570001** Date Collected: 3/1/2018 15:10 Matrix: Solid  
 Sample ID: **IDW-01 (Soil)** Date Received: 3/6/2018 08:46

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
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*Vanessa N. Badman*  
 Mrs. Vanessa N Badman  
 Project Coordinator

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### ANALYTICAL RESULTS

Workorder: 2299570 AER285|R1801830

#### PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
<b>2299570001</b>	1	IDW-01 (Soil)	SW846 1030	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
<b>2299570001</b>	2	IDW-01 (Soil)	SW846 8270D	Pyridine
The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Pyridine. The RPD was reported as 34.8 and the upper control limit is 30.				
<b>2299570001</b>	3	IDW-01 (Soil)	SW846 8270D	2-Fluorobiphenyl
The surrogate 2-Fluorobiphenyl for method SW846 8270D was outside of control limits. The % Recovery was reported as 41.8 and the control limits were 52 to 118. This result was reported at a dilution of 1.				

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**QUALITY CONTROL DATA**

Workorder: 2299570 AER285|R1801830

2-Fluorobiphenyl (S)	72.2	%	52 - 118
2-Fluorophenol (S)	53	%	20 - 87
Nitrobenzene-d5 (S)	80.3	%	27 - 139
Phenol-d5 (S)	33.4	%	10 - 81
Terphenyl-d14 (S)	105	%	46 - 133

MATRIX SPIKE: 2703019 DUPLICATE: 2703020 ORIGINAL: 2299570001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
mp-Cresol	0	ug/L	2000	1318.66	1503.67	65.9	75.2	28 - 128	13.1	20
o-Cresol	0	ug/L	2000	1395.9	1594.13	69.8	79.7	34 - 136	13.3	23
1,4-Dichlorobenzene	0	ug/L	1000	488.679	577.898	48.9	57.8	5 - 116	16.7	30
2,4-Dinitrotoluene	0	ug/L	1000	833.547	865.36	83.4	86.5	49 - 138	3.75	22
Hexachlorobenzene	0	ug/L	1000	856.566	895.784	85.7	89.6	59 - 109	4.48	21
Hexachlorobutadiene	0	ug/L	1000	508.813	582.523	50.9	58.3	5 - 126	13.5	30
Hexachloroethane	0	ug/L	1000	445.431	526.166	44.5	52.6	5 - 111	16.6	30
Nitrobenzene	0	ug/L	1000	692.533	787.388	69.3	78.7	41 - 128	12.8	19
Pentachlorophenol	0	ug/L	2000	1944.52	2075.67	97.2	104	41 - 149	6.52	28
Pyridine	0	ug/L	1000	413.067	587.1	41.3	58.7	5 - 115	34.8	30
2,4,5-Trichlorophenol	0	ug/L	2000	1757.75	1874.93	87.9	93.7	44 - 148	6.45	23
2,4,6-Trichlorophenol	0	ug/L	2000	1725.75	1860.06	86.3	93	41 - 148	7.49	23
2,4,6-Tribromophenol (S)	90	%				90	92.9	47 - 128		
2-Fluorobiphenyl (S)	55.8	%				55.8	56.4	52 - 118		
2-Fluorophenol (S)	47.6	%				47.6	57.2	20 - 87		
Nitrobenzene-d5 (S)	71.3	%				71.3	78.8	27 - 139		
Phenol-d5 (S)	31.2	%				31.2	35.5	10 - 81		
Terphenyl-d14 (S)	105	%				105	111	46 - 133		

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**QUALITY CONTROL DATA**

Workorder: 2299570 AER285|R1801830

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Decachlorobiphenyls (S)	60.7	%		60.7	66.4	30 - 140
Tetrachloro-m-xylene (S)	43.8	%		43.8	43.4	30 - 123

---

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**QUALITY CONTROL DATA**

Workorder: 2299570 AER285|R1801830

MATRIX SPIKE: 2703314 DUPLICATE: 2703315 ORIGINAL: 2299570001

\*\*\*\*NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	0	ug/L	400	435.619	423.223	109	106	80 - 124	2.89	26
2-Butanone	0	ug/L	2000	1770.09	1729.82	88.5	86.5	50 - 152	2.3	16
Carbon Tetrachloride	0	ug/L	400	484.396	465.062	121	116	62 - 132	4.07	17
Chlorobenzene	0	ug/L	400	420.009	420.679	105	105	85 - 117	.16	15
Chloroform	13.1118	ug/L	400	439.762	430.107	107	104	78 - 122	2.22	16
1,2-Dichloroethane	0	ug/L	400	427.547	416.926	107	104	70 - 133	2.52	19
1,1-Dichloroethene	0	ug/L	400	427.599	408.124	107	102	63 - 128	4.66	21
Tetrachloroethene	0	ug/L	400	432.049	439.277	108	110	72 - 124	1.66	38
Trichloroethene	0	ug/L	400	441.465	423.771	110	106	77 - 124	4.09	18
Vinyl Chloride	0	ug/L	400	420.391	402.85	105	101	27 - 138	4.26	40
1,2-Dichloroethane-d4 (S)	103	%				103	102	62 - 133		
4-Bromofluorobenzene (S)	107	%				107	109	79 - 114		
Dibromofluoromethane (S)	95	%				95	92.3	78 - 116		
Toluene-d8 (S)	99.1	%				99.1	102	76 - 127		

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**QUALITY CONTROL DATA**

Workorder: 2299570 AER285|R1801830

**QC Batch:** WETC/201143 **Analysis Method:** SW846 7.3

**QC Batch Method:** SW846 7.3

**Associated Lab Samples:**

## METHOD BLANK: 2700822

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	ND	ppm	6.3

## METHOD BLANK: 2700824

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	ND	ppm	6.3

## METHOD BLANK: 2700826

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	ND	ppm	6.3

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**QUALITY CONTROL DATA**

Workorder: 2299570 AER285|R1801830

**QC Batch:** WETC/201216 **Analysis Method:** SW-846 7.3CN

**QC Batch Method:** SW-846 7.3CN

**Associated Lab Samples:**

METHOD BLANK: 2701747

Parameter	Blank Result	Units	Reporting Limit
Cyanide, Reactive	0.0010	mg/L	0.00010

METHOD BLANK: 2701749

Parameter	Blank Result	Units	Reporting Limit
Cyanide, Reactive	0.0010	mg/L	0.00010

METHOD BLANK: 2701751

Parameter	Blank Result	Units	Reporting Limit
Cyanide, Reactive	0.0010	mg/L	0.00010

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**QUALITY CONTROL DATA**

Workorder: 2299570 AER285|R1801830

SAMPLE DUPLICATE: 2702381 ORIGINAL: 2300215001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	20.2444	%	24.0906	17.4*	10
Total Solids	79.7555	%	75.9093	4.94	5

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Workorder: 2299570 AER285|R1801830

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2299570001	IDW-01 (Soil)	SW-846 7.3CN	WCPR/42861	SW-846 7.3CN	WETC/201216
2299570001	IDW-01 (Soil)	SW846 7.3	WCPR/42862	SW846 7.3	WETC/201143
2299570001	IDW-01 (Soil)			S2540G-11	WETC/201279
2299570001	IDW-01 (Soil)	SW846 3015	MDIG/70579	SW846 6010C	META/61143
2299570001	IDW-01 (Soil)	SW846 7470A	MDIG/70581	SW846 7470A	META/61155
2299570001	IDW-01 (Soil)	SW846 3510C	EXTR/51291	SW846 8270D	SVMS/30200
2299570001	IDW-01 (Soil)			SW846 8260B	VOMS/46147
2299570001	IDW-01 (Soil)	SW846 3510C	EXTR/51309	SW846 8081B	SVGC/48465
2299570001	IDW-01 (Soil)	SW846 8151A	EXTR/51313	SW846 8151A	SVGC/48477

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# ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-210-1000

Project Number: R1801830  
 Project Manager: Brady Kalkman  
 QAP: LAB QAP

ALS Contact: Brady Kalkman



2299570

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	Flash	1010A Modified	HERB TCLP 8151A	Hg TCLP 7470A
				Date	Time					
RT1801830-001	TDW-01 (Soil)	1	Soil	3/1/18	1510	Middletown ALS				
							Cd TCLP 6010C	CN React 9014	Cr TCLP 6010C	
							Ba TCLP 6010C			
							As TCLP 6010C			
							As TCLP 6010C			

Y N Initials Cooler Temp °C  
 Y  N  DMN 2  
 Coolant #:  
 Therm ID: 3A  
 Ship Carrier: U.S.  
 FedEx U.S.  
 DHL  
 Tracking #: 4150 918 7470

Sturdy Seals Present?   
 Present Seals Intact?   
 Sealed on Ice?   
 C/LBls Complete   
 In Good Cond?   
 Correct Containers?   
 Correct Samp Vol?   
 Correct Preservation?   
 Adsorb/Volatiles?   
 Packing #: 4150

Folder Comments:  
 export EDD to excel

Special Instructions/Comments	Turnaround Requirements	Report Requirements	Invoice Information
	RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 STANDARD Requested FAX Date: Requested Report Date: 03/08/18	I. Results Only II. Results + QC Summaries III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data PQL/MDL/ <input checked="" type="checkbox"/> EDD <input checked="" type="checkbox"/> MSLC Epi-3 v3	PO# 58R1801830 Bill to
H - Test is On Hold. P - Test is Authorized for Prep Only			

Relinquished By: Steph J. P. 3/6/18 Received By: David R. 3/6 846 Airbill Number: 315



R1801830-001	TDW-01 (Soil)			Soil	3/1/18	1510	Middletown ALS	X	Pb TCLP 6010C	X
								X	Pest OC TCLP 8081B	X
								X	Sr TCLP 6010C	X
								X	Sulfide React 9034 Modified	X
								X	SVO TCLP 8270D	X
								X	TCLP ZHE EPA 1311	X
								X	TCLP EPA 1311	X
								X	VOC TCLP 8260C	X

R1801830

X Ship To: Middletown ALS  
ALS Laboratory Group  
34 Dogwood Lane  
Middletown, PA 17057

PC \_\_\_\_\_ Date \_\_\_\_\_  
SMO \_\_\_\_\_ Date \_\_\_\_\_

Instructions: \_\_\_\_\_  
Ice \_\_\_\_\_  
Dry Ice \_\_\_\_\_  
No Ice \_\_\_\_\_  
Shipping: \_\_\_\_\_  
Overnight \_\_\_\_\_  
2nd Day \_\_\_\_\_  
Ground \_\_\_\_\_  
Bill to Client Account \_\_\_\_\_

Comments:

ALS Group USA, Corp.  
www.alsglobal.com  
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March 20, 2018

Service Request No:R1801855

Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Accounts Payable,

Enclosed are the results of the sample(s) submitted to our laboratory February 19, 2018  
For your reference, these analyses have been assigned our service request number **R1801855**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS** 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



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## Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1801855  
**Date Received:** 02/19/2018

#### CASE NARRATIVE


All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Three soil samples were received for analysis at ALS Environmental on 02/19/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Metals:

No significant anomalies were noted with this analysis.

Approved by 

Date 03/20/2018



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1801855

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801855-001	TP-02 (4.0)	2/15/2018	1015
R1801855-002	TP-13 (1.0-2.0)	2/16/2018	0835
R1801855-003	TP-14 (3.5)	2/16/2018	0920









R1801804 5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

Cooler Receipt at



R1801453 5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY

Project/Client

Day

Folder Number R18-1453

Cooler received on

2/20/18

by: e

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore <u>5035set</u> NA	

8. Temperature Readings Date: 2/20/18 Time: 0850 ID: IR# IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>7.2</u>	<u>2.7</u>					
Correction Factor (°C)	<u>+1.0</u>	<u>-</u>					
Corrected Temp (°C)	<u>5.2</u>	<u>2.7</u>					
Temp from: Type of bottle	<u>Cooler</u>	<u>-</u>					
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by e on 2/20/18 at 0855  
5035 samples placed in storage location: F-09 by e on 2/20/18 at 0900

Cooler Breakdown: Date: 2/20/18 Time: 1658 by: SW

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? **YES** NO
- 10. Did all bottle labels and tags agree with custody papers? **YES** NO
- 11. Were correct containers used for the tests indicated? **YES** NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? **YES** NO
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated **YES** SW

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		Zn Acetate	-	-						
		HCl	**	**						

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 091617-152  
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: SW  
PC Secondary Review: SW 2/22/18 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter  
P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r15.doc 20 of 168 10/11/17

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801855

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1801855-001.01</b>	EPA 1311	3/5/2018	1410	SMO / DWARD	
		3/5/2018	1410	R-002 / DWARD	
<b>R1801855-001.02</b>	7470A,6010C	3/14/2018	1700	In Lab / CWOODS	
<b>R1801855-002.02</b>	EPA 1311	3/5/2018	1410	SMO / DWARD	
		3/5/2018	1410	R-002 / DWARD	
<b>R1801855-002.03</b>	6010C,7470A,6010C,6010C,6010C,6010C,6010C,6010C	3/14/2018	1700	In Lab / CWOODS	
<b>R1801855-003.02</b>	EPA 1311	3/5/2018	1410	R-002 / DWARD	
		3/5/2018	1410	SMO / DWARD	
<b>R1801855-003.03</b>	7470A,6010C	3/14/2018	1700	In Lab / CWOODS	



## Miscellaneous Forms

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## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>



# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1801855

**Sample Name:** TP-02 (4.0)  
**Lab Code:** R1801855-001  
**Sample Matrix:** Soil

**Date Collected:** 02/15/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7470A

**Extracted/Digested By**  
NMANSEN  
NMANSEN

**Analyzed By**  
CKUTZER  
NMANSEN

**Sample Name:** TP-13 (1.0-2.0)  
**Lab Code:** R1801855-002  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7470A

**Extracted/Digested By**  
NMANSEN  
NMANSEN

**Analyzed By**  
CKUTZER  
NMANSEN

**Sample Name:** TP-14 (3.5)  
**Lab Code:** R1801855-003  
**Sample Matrix:** Soil

**Date Collected:** 02/16/18  
**Date Received:** 02/19/18

**Analysis Method**  
6010C  
7470A

**Extracted/Digested By**  
NMANSEN  
NMANSEN

**Analyzed By**  
CKUTZER  
NMANSEN



## INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

**ALS Environmental—Rochester Laboratory**  
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# Metals

**ALS Environmental—Rochester Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
**-1-**  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

TP-02 (4.0)

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Lab Sample ID: R1801855-001

Level (low/med): LOW Date Received: 2/19/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.200	U		CV
7439-92-1	Lead	271			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**METALS**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

TP-13 (1.0-2.0)

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Lab Sample ID: R1801855-002

Level (low/med): LOW Date Received: 2/19/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	500	U		P
7440-39-3	Barium	1000	U		P
7440-43-9	Cadmium	100	U		P
7439-97-6	Mercury	0.200	U		CV
7440-47-3	Chromium	100	U		P
7439-92-1	Lead	100	U		P
7782-49-2	Selenium	500	U		P
7440-22-4	Silver	100	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP-14 (3.5)

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Lab Sample ID: R1801855-003

Level (low/med): LOW Date Received: 2/19/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.200	U		CV
7439-92-1	Lead	720			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
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# Metals

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**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	977	98	1000	979	98	982	98	P
Barium	10000	10200	102	10000	10300	103	10200	102	P
Cadmium	500	502	100	500	501	100	502	100	P
Mercury	3.00	2.97	99	3.00	2.99	100	3.01	100	CV
Chromium	500	522	104	500	527	105	525	105	P
Lead	500	500	100	500	503	101	503	101	P
Selenium	500	486	97	500	490	98	508	102	P
Silver	500	483	97	500	482	96	484	97	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	985	98	982	98	P
Barium				10000	10300	103	10200	102	P
Cadmium				500	502	100	498	100	P
Mercury				3.00	3.05	102	3.06	102	CV
Chromium				500	531	106	525	105	P
Lead				500	506	101	503	101	P
Selenium				500	503	101	505	101	P
Silver				500	489	98	483	97	P

Comments:

METALS  
-2A-  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	988	99			P
Barium				10000	10200	102			P
Cadmium				500	498	100			P
Mercury				3.00	3.08	103			CV
Chromium				500	527	105			P
Lead				500	500	100			P
Selenium				500	501	100			P
Silver				500	483	97			P

Comments:

**METALS**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	21.50	108	23.20	116
Barium				200.0	207.70	104	206.40	103
Cadmium				10.0	10.00	100	9.90	99
Mercury	0.200	0.205	102					
Chromium				10.0	10.20	102	10.20	102
Lead				10.0	11.20	112	9.00	90
Selenium				10.0	10.00	100	11.70	117
Silver				10.0	9.80	98	9.60	96

Comments:

METALS  
-2B-  
CRDL STANDARD FOR AA AND ICP

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.210	105					

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L		Continuing Calibration Blank ug/L						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Arsenic	500.00	U	500.00	U	500.00	U	500.00	U	500.000	U	P
Barium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Cadmium	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Chromium	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Lead	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Selenium	500.00	U	500.00	U	500.00	U	500.00	U	500.000	U	P
Silver	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P

Comments:



**METALS**

-3-

**BLANKS**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		500.00	U	500.00	U					P
Barium		1000.00	U	1000.00	U					P
Cadmium		100.00	U	100.00	U					P
Mercury		0.200	U	0.200	U					CV
Chromium		100.00	U	100.00	U					P
Lead		100.00	U	100.00	U					P
Selenium		500.00	U	500.00	U					P
Silver		100.00	U	100.00	U					P

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	2.7	107	107	0.9	106	106
Barium		500	0.2	529	106	0.1	521	104
Cadmium		1000	-1.1	975	98	-1.3	958	96
Chromium		500	0.4	515	103	0.3	517	103
Lead		50	-1.6	46	92	-2.4	49	98
Selenium		50	0.4	53	106	-4.7	51	102
Silver		200	-0.3	215	108	-0.3	215	108

**METALS**

-5A-

**SPIKE SAMPLE RECOVERY**

SAMPLE NO.

TP-02 (4.0)S

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.080	0.200 U	1.00	108		CV
Lead	75 - 125	772.00	271.00	500.0	100		P

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**METALS**

-5A-

**SPIKE SAMPLE RECOVERY**

SAMPLE NO.

TP-02 (4.0) SD

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.080	0.200 U	1.00	108		CV
Lead	75 - 125	771.00	271.00	500.0	100		P

Comments:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

METALS  
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

TP-02 (4.0)A

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added(SA)	%R	Q	M
Lead		514.00	271.00	250	97		P

Comments:

\_\_\_\_\_

\_\_\_\_\_

METALS  
-6-  
DUPLICATES

SAMPLE NO.

TP-02 (4.0)SD

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Mercury		1.080	1.080	0		CV
Lead		772.00	771.00	0		P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/K)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic	1000	989	99					
Barium	2000	2080	104					
Cadmium	500	512	102					
Mercury	1.000	1.040	104					
Chromium	500	521	104					
Lead	500	519	104					
Selenium	1000	1010	101					
Silver	250	248	99					

Comments: \_\_\_\_\_

**METALS**  
-9-  
**ICP SERIAL DILUTIONS**

SAMPLE NO.

TP-02 (4.0)L

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) <span style="float: right;">C</span>	Serial Dilution Result (S) <span style="float: right;">C</span>	% Difference	Q	M
Lead	271.00	500.00 U	100.0		P

Comments: \_\_\_\_\_



METALS  
-10-  
DETECTION LIMITS

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

ICP ID Number: \_\_\_\_\_ Date: 5/5/2017

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.200	CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

ICP ID Number: Agilent ICP Date: 3/23/2017

Flame AA ID Number: \_\_\_\_\_

Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Arsenic	188.980		500.0	500.0	P
Barium	230.424		1000.0	1000.0	P
Cadmium	214.439		100.0	100.0	P
Chromium	267.716		100.0	100.0	P
Lead	220.353		100.0	100.0	P
Selenium	196.026		500.0	500.0	P
Silver	328.068		100.0	100.0	P

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
ICP LINEAR RANGES (QUARTERLY)

-12-

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

ICP ID Number: Agilent ICP Date: 4/28/2017

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Cadmium	1.000	2000	P
Chromium	1.000	10000	P
Lead	1.000	10000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1801855  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	09:29				X	X		X	X				X						X	X					
STANDARD 1	1.00	09:32				X	X		X	X				X						X	X					
STANDARD 2	1.00	09:35				X	X		X	X				X						X	X					
STANDARD 3	1.00	09:39				X	X		X	X				X						X	X					
STANDARD 4	1.00	09:42				X	X		X	X				X						X	X					
STANDARD 5	1.00	09:45				X	X		X	X				X						X	X					
ICV1	1.00	09:49				X	X		X	X				X						X	X					
ICB1	1.00	09:52				X	X		X	X				X						X	X					
CRDL1	1.00	09:55				X	X		X	X				X						X	X					
ICS-A1	1.00	09:59				X	X		X	X				X						X	X					
ICS-AB1	1.00	10:02				X	X		X	X				X						X	X					
CCV1	1.00	10:05				X	X		X	X				X						X	X					
CCB1	1.00	10:09				X	X		X	X				X						X	X					
PBT	1.00	10:12				X	X		X	X				X						X	X					
LCST	1.00	10:15				X	X		X	X				X						X	X					
ZZZZZ	1.00	10:19																								
TP-02 (4.0)	1.00	10:22												X												
TP-02 (4.0)S	1.00	10:25												X												
TP-02 (4.0)SD	1.00	10:29												X												
TP-02 (4.0)A	1.00	10:32												X												
TP-02 (4.0)L	5.00	10:35												X												
TP-13 (1.0-2.0)	1.00	10:38				X	X		X	X				X						X	X					
TP-14 (3.5)	1.00	10:42												X												
CCV2	1.00	10:45				X	X		X	X				X						X	X					
CCB2	1.00	10:48				X	X		X	X				X						X	X					
ZZZZZ	1.00	10:52																								
ZZZZZ	1.00	10:55																								
ZZZZZ	1.00	10:58																								
ZZZZZ	1.00	11:02																								
ZZZZZ	1.00	11:05																								
ZZZZZ	1.00	11:08																								
ZZZZZ	1.00	11:12																								
ZZZZZ	10.00	11:15																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1801855  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
ZZZZZZ	10.00	11:18																									
ZZZZZZ	10.00	11:22																									
CCV3	1.00	11:25			X	X		X	X				X							X	X						
CCB3	1.00	11:28			X	X		X	X				X							X	X						
ZZZZZZ	10.00	11:32																									
ZZZZZZ	10.00	11:35																									
ZZZZZZ	10.00	11:38																									
ZZZZZZ	1.00	11:42																									
ZZZZZZ	10.00	11:45																									
ZZZZZZ	10.00	11:48																									
ZZZZZZ	10.00	11:51																									
ZZZZZZ	10.00	11:55																									
ZZZZZZ	10.00	11:58																									
CCV4	1.00	12:01			X	X		X	X				X							X	X						
CCB4	1.00	12:05			X	X		X	X				X							X	X						
CRDL2	1.00	12:08			X	X		X	X				X							X	X						
ICS-A2	1.00	12:11			X	X		X	X				X							X	X						
ICS-AB2	1.00	12:15			X	X		X	X				X							X	X						
ZZZZZZ	1.00	12:18																									
ZZZZZZ	1.00	12:21																									
ZZZZZZ	1.00	12:25																									
CCV5	1.00	12:28			X	X		X	X				X							X	X						
CCB5	1.00	12:31			X	X		X	X				X							X	X						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
Calib Blank	1.00	12:37															X									
0.2ppb std	1.00	12:39															X									
0.5ppb std	1.00	12:40															X									
1.0ppb std	1.00	12:42															X									
2.0ppb std	1.00	12:44															X									
5.0ppb std	1.00	12:45															X									
10.0ppb std	1.00	12:47															X									
ICV1	1.00	12:49															X									
ICB1	1.00	12:50															X									
CRDL1	1.00	12:52															X									
CCV1	1.00	12:54															X									
CCB1	1.00	12:55															X									
PBT	1.00	12:57															X									
LCST	1.00	12:58															X									
ZZZZZZ	1.00	13:00																								
ZZZZZZ	1.00	13:02																								
ZZZZZZ	1.00	13:03																								
ZZZZZZ	1.00	13:05																								
ZZZZZZ	1.00	13:07																								
ZZZZZZ	1.00	13:08																								
CCV2	1.00	13:10															X									
CCB2	1.00	13:11															X									
ZZZZZZ	1.00	13:13																								
ZZZZZZ	1.00	13:15																								
ZZZZZZ	1.00	13:16																								
ZZZZZZ	1.00	13:18																								
ZZZZZZ	1.00	13:20																								
ZZZZZZ	1.00	13:21																								
ZZZZZZ	1.00	13:23																								
CCV3	1.00	13:25															X									
CCB3	1.00	13:26															X									
ZZZZZZ	1.00	13:28																								
ZZZZZZ	1.00	13:30																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																					
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N L	T V	Z N
ZZZZZZ	1.00	13:31																							
ZZZZZZ	1.00	13:33																							
ZZZZZZ	1.00	13:34																							
ZZZZZZ	1.00	13:36																							
ZZZZZZ	1.00	13:38																							
CCV4	1.00	13:39															X								
CCB4	1.00	13:41															X								
ZZZZZZ	1.00	13:43																							
ZZZZZZ	1.00	13:44																							
TP-02 (4.0)	1.00	13:46															X								
TP-02 (4.0)S	1.00	13:48															X								
TP-02 (4.0)SD	1.00	13:49															X								
TP-13 (1.0-2.0)	1.00	13:51															X								
TP-14 (3.5)	1.00	13:53															X								
CRDL2	1.00	13:54															X								
CCV5	1.00	13:56															X								
CCB5	1.00	13:57															X								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



## Raw Data

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)





# Metals

**ALS Environmental—Rochester Laboratory**  
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[www.alsglobal.com](http://www.alsglobal.com)

METALS

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INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP-02 (4.0)

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Lab Sample ID: R1801855-001

Level (low/med): LOW Date Received: 2/19/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.200	U		CV
7439-92-1	Lead	271			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**METALS**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

TP-13 (1.0-2.0)

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Lab Sample ID: R1801855-002

Level (low/med): LOW Date Received: 2/19/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	500	U		P
7440-39-3	Barium	1000	U		P
7440-43-9	Cadmium	100	U		P
7439-97-6	Mercury	0.200	U		CV
7440-47-3	Chromium	100	U		P
7439-92-1	Lead	100	U		P
7782-49-2	Selenium	500	U		P
7440-22-4	Silver	100	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

TP-14 (3.5)

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Matrix (soil/water): WATER Lab Sample ID: R1801855-003

Level (low/med): LOW Date Received: 2/19/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.200	U		CV
7439-92-1	Lead	720			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**METALS DEPARTMENT  
DATA QUALITY CHECKLIST**

Data File: lema15

Run Date: 3/15/18

Instrument: ICP6

ICP- 200.7 // 6010C / ASP/CLP // NIOSH

CVAF- 1631E

CVAA- 200 Series // SW846 // ASP/CLP

Batch ID / Metals Reviewed:

Yes	No	NA		Yes	No	NA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. <b>Holding Times met method requirements?</b> ICP - 6mths from sampling to analysis CVAA- 28 days from sampling to analysis ( 26 days from VTSR) 1631 - 28 days to preservation - 90 days from sampling to analysis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. <b>ICAL met method requirements?</b> Correlation Coefficient > or = 0.998 ICP High Level CCV1/2= 90-110%. 1631 - Cal RSD≤15% and low std 75-125% of TV Standard Concentrations correct for all analytes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. <b>ICV acceptable?</b> ICP: 200.7= 95-105% ; NIOSH / 6010C / ASP/CLP= 90-110% 1631- ICV 79-121% Hg: EPA 200 Series= 95-105% ; SW846 / ASP/CLP= 90-110%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. <b>CCVs acceptable? Analyzed per 10 samples?</b> ICP: 200.7 / 6010C / ASP/CLP / NIOSH= 90-110% 1631- CCV 77-123% Hg: EPA 200 Series= 90-110% ; SW846 / ASP/CLP= 80-120%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. <b>CRDL acceptable?</b> ICP / HG: 70-130%. GE 80-120%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. <b>CCBs acceptable? Analyzed per 10 samples?</b> Concentrations < RL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. <b>Method Blank results &lt;RL?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. <b>LCS recoveries within QC limits?</b> ICP: 200.7= 85-115% ; 6010C / ASP/CLP / NIOSH= 80-120% 1631: DQO Hg: EPA 200 Series= 85-115% ; SW846 / ASP/CLP= 80-120% LCSS (soil) 80-120% or Certificate of Analysis QC limits per manufacturer (MassCAM)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9. <b>All sample concentrations within LR?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10. <b>MS recoveries within QC limits?</b> ICP: 200.7= 70-130% ; 6010C / ASP/CLP= 75-125% 1631- 1 per 10 samples. 71-125% Hg: EPA 200 Series= 70-130% ; SW846 / ASP/CLP= 75-125%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. <b>Duplicate RPD within QC limits?</b> 20% for RPD shall be used for samples > or = 5 times the RL. RL shall be used for samples < 5 times the RL. 1631 - MS/MSD RPD 24%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12. <b>Dilution factors verified and calculated correctly?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13. <b>Bench Sheet complete, initials, date, and time:</b> • Are standards and reagents traceable? • Is unused space on the sheet crossed out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. <b>'Sample Information Detail Report' Included (ICP instr. Only)</b> • Sample ID verified with each dilution for upload?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15. <b>Data Transfer into LIMs accurate and complete?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <b>Were all steps performed as described in the applicable SOPs?</b> Submit Permanent changes by SOP change form: Note Temporary changes below	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Primary Review: CK  
Date: 3/15/18

Secondary Review: NM  
Date: 3/15/18

COMMENTS: \*\*Comments must be provided for any items noted above as "No"

ICP AspK 1/2 true value ms/msd HICCV2 failed all calcu KTL-use HICCV3/1 as a range

# Metals Cover Page

Analyst: CK

Date: 3/15/18

Instrument: ICP6

Data File: lanaris

Reviewed By: CK 3/15/18

Entered By: CK 3/15/18

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
583713	AgAsBaCdCrPbSe	309972	6010TCP		

583714	Cr	309726	200.7		
	CaMnNa	309546	6010C		

583715	TlKCaNa	309522	6010C		

583716	AlCaCrFeKmgmn	309977	200.7		
	NaPbZn				


## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

**ICP-6 Run Log**  
Serial number: MY15340001

Analyst: Chudner

Date: 3/15/18

Data File: lamar15

	Prep Date	Lot #		Prep Date	Lot #
MRL	1/29/18	M7620094C	Cal Std 1	3/13/18	M7620016B
ICSA	1/30/17	M7620109C	Cal Std 2	3/8/18	M7620024N
ICSAB	1/29/18	M7620116E	Cal Std 5/ HLCCV1	3/14/18	M7620035R
Int. Std	3/14/18	M7620126M	ICV/CCV	3/15/18	M7620056D
HLCCV3	3/14/18	M7620087R	HLCCV2	3/14/18	M7620074J

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	M7600003T	M7600004D	m31, m34, MA 2	—	—

1:1	PB TCLP	S1:21	HLCCV2	S1:6	Continuing Calibration Verification
1:2	LCSW TCLP	S1:22	HLCCV3	S1:7	Continuing Calibration Blank
1:3	MBLK	S1:23	HLCCV1	1:60	R1801692-019 10X
1:4	R1801855-001	S1:6	Continuing Calibration Verification	2:1	R1801692-020 10X
1:5	R1801855-001S	S1:7	Continuing Calibration Blank	2:2	R1801692-021 100X
1:6	R1801855-001SD	1:30	PBW-309522	S1:6	Continuing Calibration Verification
1:7	R1801855-001A	1:31	LCSW-309522	S1:7	Continuing Calibration Blank
1:8	R1801855-001L	1:32	R1801692-004	S1:3	Contract Required Detection Limit
1:9	R1801855-002	1:33	R1801692-006	S1:4	Interference Check Solution A
1:10	R1801855-003	1:34	R1801692-017	S1:5	Interference Check Solution AB
S1:6	Continuing Calibration Verification	1:35	R1801692-020	S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank	1:36	R1801692-018	S1:7	Continuing Calibration Blank
1:11	PBW-309726	1:37	R1801692-019		
1:12	LCSW-309726	1:38	R1801692-021		
1:13	R1802050-002	1:39	R1801692-001 10X		
1:14	R1802050-003	S1:6	Continuing Calibration Verification		
1:15	R1802050-004	S1:7	Continuing Calibration Blank		
1:16	PBW-309546	1:40	R1801692-002 10X		
1:17	LCSW-309546	1:41	R1801692-003 10X		
1:18	R1801821-001 10X	1:42	R1801692-004 10X		
1:19	R1801822-001 10X	1:43	R1801692-005 10X		
1:20	R1801822-011 10X	1:44	R1801692-006 10X		
S1:6	Continuing Calibration Verification	1:45	R1801692-007 10X		
S1:7	Continuing Calibration Blank	1:46	R1801692-008 100X		
1:21	R1801822-019 10X	1:47	<del>R1801692-009 10X</del> BLANK		
1:22	R1801822-025 10X	1:48	R1801692-010 10X		
1:23	R1801822-025S 10X	1:49	R1801692-011 10X		
1:24	R1801822-025SD 10X	S1:6	Continuing Calibration Verification		
1:25	R1801822-025A 10X	S1:7	Continuing Calibration Blank		
1:26	R1801822-025L 10X	1:50	R1801692-011S 10X		
1:27	R1801822-026 10X	1:51	R1801692-011SD 10X		
1:28	R1801851-001 10X	1:52	R1801692-011A 10X		
1:29	R1801851-002 10X	1:53	R1801692-011L 10X		
S1:6	Continuing Calibration Verification	1:54	R1801692-012 10X		
S1:7	Continuing Calibration Blank	1:55	R1801692-013 10X		
S1:3	Contract Required Detection Limit	1:56	R1801692-014 10X		
S1:4	Interference Check Solution A	1:57	R1801692-016 10X		
S1:5	Interference Check Solution AB	1:58	R1801692-017 10X		
		1:59	R1801692-018 100X		

2:3	PBW-309977
2:4	LCSW-309977
2:5	R1802053-001
2:6	R1802053-001S
2:7	R1802053-001SD
2:8	R1802053-001L

marked before cal 3/15/18

*Chudner  
Kudner  
3/15/18*



Path: C:\Agilent\NCP Expert\My Results\6MAR15.esws  
 Date created: 11/10/2015 11:09:45 AM  
 Instrument used: MY15340001  
 Software Version : 7.100.6821.61355    Firmware Version : 2994  
 Notes:

*Chandra Kuzner*  
 3/15/18

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 09:29:13	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-95.3743
3/15/2018 09:29:13	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	148.2785
3/15/2018 09:29:13	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.6735
3/15/2018 09:29:13	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	129.9291
3/15/2018 09:29:13	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.3558
3/15/2018 09:29:13	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-579.6465
3/15/2018 09:29:13	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.5017
3/15/2018 09:29:13	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	14.7712
3/15/2018 09:29:13	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5.2352
3/15/2018 09:29:13	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.8922
3/15/2018 09:29:13	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	15.1787
3/15/2018 09:29:13	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	17.3615
3/15/2018 09:29:13	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-10.3182
3/15/2018 09:29:13	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-6.1958
3/15/2018 09:29:13	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	16.9407
3/15/2018 09:29:13	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.9483
3/15/2018 09:29:13	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-8956.5670
3/15/2018 09:29:13	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-18.5261
3/15/2018 09:29:13	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.6261
3/15/2018 09:29:13	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	2.4751
3/15/2018 09:29:13	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.1070
3/15/2018 09:29:13	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.8467
3/15/2018 09:29:13	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.4969
3/15/2018 09:29:13	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-625.3649
3/15/2018 09:29:13	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	8.3294
3/15/2018 09:29:13	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	132.0257
3/15/2018 09:29:13	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	704885.79
3/15/2018 09:29:13	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	702685.08
3/15/2018 09:29:13	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-14.1222
3/15/2018 09:32:33	Standard 1	Ag (328.068 nm)		N/A		-99.6968
3/15/2018 09:32:33	Standard 1	Al (394.401 nm)		N/A		310.1368
3/15/2018 09:32:33	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	1.0247
3/15/2018 09:32:33	Standard 1	B (249.772 nm)		N/A		124.2560
3/15/2018 09:32:33	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	585.2726
3/15/2018 09:32:33	Standard 1	Be (313.107 nm)		N/A		-570.6907
3/15/2018 09:32:33	Standard 1	Ca (227.547 nm)		N/A		24.3880
3/15/2018 09:32:33	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	33.3112
3/15/2018 09:32:33	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	21.3996
3/15/2018 09:32:33	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	211.3236
3/15/2018 09:32:33	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	501.2308



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 09:32:33	Standard 1	Fe (234.350 nm)		N/A		19.5239
3/15/2018 09:32:33	Standard 1	K (766.491 nm)		N/A		4100.2807
3/15/2018 09:32:33	Standard 1	Mg (279.078 nm)		N/A		867.9904
3/15/2018 09:32:33	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	2902.1988
3/15/2018 09:32:33	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	217.1027
3/15/2018 09:32:33	Standard 1	Na (588.995 nm)		N/A		6946.7217
3/15/2018 09:32:33	Standard 1	Ni (230.299 nm)		N/A		-23.0372
3/15/2018 09:32:33	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	16.9103
3/15/2018 09:32:33	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	15.9914
3/15/2018 09:32:33	Standard 1	Se (196.026 nm)		N/A		-2.0618
3/15/2018 09:32:33	Standard 1	Sn (189.925 nm)		N/A		-0.0418
3/15/2018 09:32:33	Standard 1	Sr (216.596 nm)		N/A		-0.0976
3/15/2018 09:32:33	Standard 1	Ti (336.122 nm)		N/A		-645.6802
3/15/2018 09:32:33	Standard 1	Tl (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	31.0030
3/15/2018 09:32:33	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	217.5151
3/15/2018 09:32:33	Standard 1	Y (360.074 nm)	1.01 (Ratio)	1.87	1.01 (Ratio)	712766.70
3/15/2018 09:32:33	Standard 1	Y_R (360.074 nm)	1.01 (Ratio)	1.88	1.01 (Ratio)	710927.23
3/15/2018 09:32:33	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	257.8797
3/15/2018 09:35:53	Standard 2	Ag (328.068 nm)		N/A		-102.9306
3/15/2018 09:35:53	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	993.6200
3/15/2018 09:35:53	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	4.2433
3/15/2018 09:35:53	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4900.6766
3/15/2018 09:35:53	Standard 2	Ba (230.424 nm)		N/A		-3.2520
3/15/2018 09:35:53	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3128.4525
3/15/2018 09:35:53	Standard 2	Cb (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	46.1797
3/15/2018 09:35:53	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	117.8227
3/15/2018 09:35:53	Standard 2	Co (230.786 nm)		N/A		-4.6411
3/15/2018 09:35:53	Standard 2	Cr (267.716 nm)		N/A		-1.7535
3/15/2018 09:35:53	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	956.0836
3/15/2018 09:35:53	Standard 2	Fe (234.350 nm)		N/A		16.6331
3/15/2018 09:35:53	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4139.6752
3/15/2018 09:35:53	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1725.7817
3/15/2018 09:35:53	Standard 2	Mn (257.610 nm)		N/A		19.2439
3/15/2018 09:35:53	Standard 2	Mo (202.032 nm)		N/A		4.9303
3/15/2018 09:35:53	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	22414.5296
3/15/2018 09:35:53	Standard 2	Ni (230.299 nm)		N/A		-21.3490
3/15/2018 09:35:53	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	105.9690
3/15/2018 09:35:53	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	74.4077
3/15/2018 09:35:53	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	6.2151
3/15/2018 09:35:53	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	549.7787
3/15/2018 09:35:53	Standard 2	Sr (216.596 nm)		N/A		-1.9485
3/15/2018 09:35:53	Standard 2	Ti (336.122 nm)		N/A		-644.2465
3/15/2018 09:35:53	Standard 2	Tl (351.923 nm)		N/A		7.0512
3/15/2018 09:35:53	Standard 2	V (292.401 nm)		N/A		136.9078
3/15/2018 09:35:53	Standard 2	Y (360.074 nm)	1.02 (Ratio)	0.53	1.02 (Ratio)	718353.38
3/15/2018 09:35:53	Standard 2	Y_R (360.074 nm)	1.02 (Ratio)	0.53	1.02 (Ratio)	716738.29
3/15/2018 09:35:53	Standard 2	Zn (213.857 nm)		N/A		0.2581
3/15/2018 09:39:13	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	477.3125
3/15/2018 09:39:13	Standard 3	Al (394.401 nm)		N/A		1821.8932
3/15/2018 09:39:13	Standard 3	As (188.980 nm)		N/A		12.5051
3/15/2018 09:39:13	Standard 3	B (249.772 nm)		N/A		1330.3429

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 09:39:13	Standard 3	Ba (230.424 nm)		N/A		5888.4799
3/15/2018 09:39:13	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	5569.2755
3/15/2018 09:39:13	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	24.4226
3/15/2018 09:39:13	Standard 3	Cd (214.439 nm)		N/A		217.9551
3/15/2018 09:39:13	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	450.2508
3/15/2018 09:39:13	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	415.3526
3/15/2018 09:39:13	Standard 3	Cu (327.395 nm)		N/A		1149.7137
3/15/2018 09:39:13	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	982.8844
3/15/2018 09:39:13	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1022.2814
3/15/2018 09:39:13	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	871.8568
3/15/2018 09:39:13	Standard 3	Mn (257.610 nm)		N/A		4084.3901
3/15/2018 09:39:13	Standard 3	Mo (202.032 nm)		N/A		424.9005
3/15/2018 09:39:13	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	7067.9900
3/15/2018 09:39:13	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	230.4268
3/15/2018 09:39:13	Standard 3	Pb (220.353 nm)		N/A		24.0129
3/15/2018 09:39:13	Standard 3	Sb (217.582 nm)		N/A		120.9210
3/15/2018 09:39:13	Standard 3	Se (196.026 nm)		N/A		4.1094
3/15/2018 09:39:13	Standard 3	Sn (189.925 nm)		N/A		112.4383
3/15/2018 09:39:13	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	627.3226
3/15/2018 09:39:13	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	7531.1282
3/15/2018 09:39:13	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	47.6784
3/15/2018 09:39:13	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	1586.2104
3/15/2018 09:39:13	Standard 3	Y (360.074 nm)	1.02 (Ratio)	0.36	1.02 (Ratio)	717948.96
3/15/2018 09:39:13	Standard 3	Y_R (360.074 nm)	1.02 (Ratio)	0.36	1.02 (Ratio)	716423.37
3/15/2018 09:39:13	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	537.3538
3/15/2018 09:42:33	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	11289.8180
3/15/2018 09:42:33	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	36583.3206
3/15/2018 09:42:33	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	325.8224
3/15/2018 09:42:33	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	24713.9957
3/15/2018 09:42:33	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	115620.8155
3/15/2018 09:42:33	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	123944.8298
3/15/2018 09:42:33	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	424.8157
3/15/2018 09:42:33	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4123.2989
3/15/2018 09:42:33	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	9019.7561
3/15/2018 09:42:33	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	8072.8050
3/15/2018 09:42:33	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	22851.4153
3/15/2018 09:42:33	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	19280.3870
3/15/2018 09:42:33	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	21113.7215
3/15/2018 09:42:33	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	17584.0082
3/15/2018 09:42:33	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	80143.7940
3/15/2018 09:42:33	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	8473.0359
3/15/2018 09:42:33	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	306233.8953
3/15/2018 09:42:33	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	4969.3103
3/15/2018 09:42:33	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	398.5290
3/15/2018 09:42:33	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2436.2371
3/15/2018 09:42:33	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	161.1292
3/15/2018 09:42:33	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2239.4440
3/15/2018 09:42:33	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	12594.2939
3/15/2018 09:42:33	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	162523.5689
3/15/2018 09:42:33	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	842.5418
3/15/2018 09:42:33	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	29292.4250

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 09:42:33	Standard 4	Y (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	710727.81
3/15/2018 09:42:33	Standard 4	Y_R (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	709432.60
3/15/2018 09:42:33	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	10807.4478
3/15/2018 09:45:53	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	58085.9441
3/15/2018 09:45:53	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	199131.6531
3/15/2018 09:45:53	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1659.8803
3/15/2018 09:45:53	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	125147.6237
3/15/2018 09:45:53	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	559275.9955
3/15/2018 09:45:53	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	618693.6386
3/15/2018 09:45:53	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2216.6597
3/15/2018 09:45:53	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	19983.6966
3/15/2018 09:45:53	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	44184.0286
3/15/2018 09:45:53	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	39891.4916
3/15/2018 09:45:53	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	117708.9558
3/15/2018 09:45:53	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	94089.3256
3/15/2018 09:45:53	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	109296.6816
3/15/2018 09:45:53	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	88475.9908
3/15/2018 09:45:53	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	390963.8517
3/15/2018 09:45:53	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	42181.8358
3/15/2018 09:45:53	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	1546384.4691
3/15/2018 09:45:53	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	24232.5537
3/15/2018 09:45:53	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1951.0247
3/15/2018 09:45:53	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12145.9348
3/15/2018 09:45:53	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	832.4081
3/15/2018 09:45:53	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	11039.8032
3/15/2018 09:45:53	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	61789.5440
3/15/2018 09:45:53	Standard 5	Tl (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	811307.8817
3/15/2018 09:45:53	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4318.0680
3/15/2018 09:45:53	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	145596.3265
3/15/2018 09:45:53	Standard 5	Y (360.074 nm)	0.98 (Ratio)	0.42	0.98 (Ratio)	687940.05
3/15/2018 09:45:53	Standard 5	Y_R (360.074 nm)	0.98 (Ratio)	0.43	0.98 (Ratio)	686980.99
3/15/2018 09:45:53	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	54274.7974
3/15/2018 09:49:14	Initial Calibration Verification	Ag (328.068 nm)	0.4825 (ppm)	0.08	0.4825 (ppm)	27952.4907
3/15/2018 09:49:14	Initial Calibration Verification	Al (394.401 nm) 96%	9.6010 (ppm)	0.13	9.6010 (ppm)	95359.3220
3/15/2018 09:49:14	Initial Calibration Verification	As (188.980 nm)	0.9773 (ppm)	0.21	0.9773 (ppm)	808.4881
3/15/2018 09:49:14	Initial Calibration Verification	B (249.772 nm)	2.4420 (ppm)	0.16	2.4420 (ppm)	61144.1333
3/15/2018 09:49:14	Initial Calibration Verification	Ba (230.424 nm)	10.2365 (ppm)	0.18	10.2365 (ppm)	286625.0851
3/15/2018 09:49:14	Initial Calibration Verification	Be (313.107 nm)	0.2515 (ppm)	0.11	0.2515 (ppm)	310980.3977
3/15/2018 09:49:14	Initial Calibration Verification	Ca (227.547 nm) 96%	24.0279 (ppm)	0.30	24.0279 (ppm)	1065.4967
3/15/2018 09:49:14	Initial Calibration Verification	Cd (214.439 nm)	0.5016 (ppm)	0.34	0.5016 (ppm)	10041.5662
3/15/2018 09:49:14	Initial Calibration Verification	Co (230.786 nm)	2.5715 (ppm)	0.14	2.5715 (ppm)	22739.9007
3/15/2018 09:49:14	Initial Calibration Verification	Cr (267.716 nm) 104%	0.5215 (ppm)	0.09	0.5215 (ppm)	20814.6021
3/15/2018 09:49:14	Initial Calibration Verification	Cu (327.395 nm)	1.2147 (ppm)	0.16	1.2147 (ppm)	57133.5193
3/15/2018 09:49:14	Initial Calibration Verification	Fe (234.350 nm) 100%	5.0205 (ppm)	0.20	5.0205 (ppm)	47289.9358
3/15/2018 09:49:14	Initial Calibration Verification	K (766.491 nm) 98%	24.4987 (ppm)	0.19	24.4987 (ppm)	53473.4039
3/15/2018 09:49:14	Initial Calibration Verification	Mg (279.078 nm) 99%	24.8012 (ppm)	0.15	24.8012 (ppm)	43872.6394
3/15/2018 09:49:14	Initial Calibration Verification	Mn (257.610 nm) 102%	0.7672 (ppm)	0.17	0.7672 (ppm)	200169.9088
3/15/2018 09:49:14	Initial Calibration Verification	Mo (202.032 nm)	2.4973 (ppm)	0.31	2.4973 (ppm)	21074.5950
3/15/2018 09:49:14	Initial Calibration Verification	Na (588.995 nm) 98%	24.5218 (ppm)	0.26	24.5218 (ppm)	754231.1246
3/15/2018 09:49:14	Initial Calibration Verification	Ni (230.299 nm)	2.0568 (ppm)	0.03	2.0568 (ppm)	12464.9369
3/15/2018 09:49:14	Initial Calibration Verification	Pb (220.353 nm) 100%	0.4998 (ppm)	0.78	0.4998 (ppm)	978.4040

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 09:49:14	Initial Calibration Verification	Sb (217.582 nm)	4.9466 (ppm)	0.11	4.9466 (ppm)	6009.8133
3/15/2018 09:49:14	Initial Calibration Verification	Se (196.026 nm)	0.4856 (ppm)	0.94	0.4856 (ppm)	402.7613
3/15/2018 09:49:14	Initial Calibration Verification	Sn (189.925 nm)	5.0619 (ppm)	0.39	5.0619 (ppm)	5590.5250
3/15/2018 09:49:14	Initial Calibration Verification	Sr (216.596 nm)	2.5197 (ppm)	0.12	2.5197 (ppm)	31159.7594
3/15/2018 09:49:14	Initial Calibration Verification	Ti (336.122 nm)	2.4876 (ppm)	0.18	2.4876 (ppm)	403396.0901
3/15/2018 09:49:14	Initial Calibration Verification	Tl (351.923 nm)	0.9919 (ppm)	0.31	0.9919 (ppm)	2143.1241
3/15/2018 09:49:14	Initial Calibration Verification	V (292.401 nm)	2.5116 (ppm)	0.19	2.5116 (ppm)	73207.0995
3/15/2018 09:49:14	Initial Calibration Verification	Y (360.074 nm)	1.00 (Ratio)	0.36	1.00 (Ratio)	703633.35
3/15/2018 09:49:14	Initial Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	0.36	1.00 (Ratio)	702718.32
3/15/2018 09:49:14	Initial Calibration Verification	Zn (213.857 nm) <i>961</i>	0.9627 (ppm)	0.01	0.9627 (ppm)	26115.1536
3/15/2018 09:52:33	Initial Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	31.74	-0.0002 (ppm)	-106.3590
3/15/2018 09:52:33	Initial Calibration Blank	Al (394.401 nm)	-0.0031 u (ppm)	11.47	-0.0031 (ppm)	117.8159
3/15/2018 09:52:33	Initial Calibration Blank	As (188.980 nm)	0.0036 (ppm)	29.52	0.0036 (ppm)	-1.6980
3/15/2018 09:52:33	Initial Calibration Blank	B (249.772 nm)	0.0014 (ppm)	10.46	0.0014 (ppm)	163.7952
3/15/2018 09:52:33	Initial Calibration Blank	Ba (230.424 nm)	0.0004 (ppm)	11.75	0.0004 (ppm)	18.0257
3/15/2018 09:52:33	Initial Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	28.09	0.0000 (ppm)	-527.0425
3/15/2018 09:52:33	Initial Calibration Blank	Ca (227.547 nm)	0.0500 (ppm)	73.40	0.0500 (ppm)	6.7114
3/15/2018 09:52:33	Initial Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	16.2532
3/15/2018 09:52:33	Initial Calibration Blank	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.4931
3/15/2018 09:52:33	Initial Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	2.7782
3/15/2018 09:52:33	Initial Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.4476
3/15/2018 09:52:33	Initial Calibration Blank	Fe (234.350 nm)	0.0006 (ppm)	27.75	0.0006 (ppm)	22.7110
3/15/2018 09:52:33	Initial Calibration Blank	K (766.491 nm)	0.0396 (ppm)	21.20	0.0396 (ppm)	76.1528
3/15/2018 09:52:33	Initial Calibration Blank	Mg (279.078 nm)	0.0014 (ppm)	82.00	0.0014 (ppm)	-3.6570
3/15/2018 09:52:33	Initial Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	21.2316
3/15/2018 09:52:33	Initial Calibration Blank	Mo (202.032 nm)	0.0022 (ppm)	12.75	0.0022 (ppm)	24.3308
3/15/2018 09:52:33	Initial Calibration Blank	Nb (588.995 nm)	0.0169 (ppm)	2.53	0.0169 (ppm)	-8431.7456
3/15/2018 09:52:33	Initial Calibration Blank	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-19.2632
3/15/2018 09:52:33	Initial Calibration Blank	Pb (220.353 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	7.1168
3/15/2018 09:52:33	Initial Calibration Blank	Sb (217.582 nm)	0.0029 (ppm)	76.56	0.0029 (ppm)	6.0222
3/15/2018 09:52:33	Initial Calibration Blank	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-2.5539
3/15/2018 09:52:33	Initial Calibration Blank	Sn (189.925 nm)	0.0017 u (ppm)	98.70	0.0017 (ppm)	0.0815
3/15/2018 09:52:33	Initial Calibration Blank	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.3767
3/15/2018 09:52:33	Initial Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	15.01	0.0012 (ppm)	-427.7575
3/15/2018 09:52:33	Initial Calibration Blank	Tl (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	6.0497
3/15/2018 09:52:33	Initial Calibration Blank	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	134.2566
3/15/2018 09:52:33	Initial Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.33	1.02 (Ratio)	720981.28
3/15/2018 09:52:33	Initial Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.34	1.02 (Ratio)	720005.61
3/15/2018 09:52:33	Initial Calibration Blank	Zn (213.857 nm)	-0.0003 u (ppm)	42.33	-0.0003 (ppm)	-23.5812
3/15/2018 09:55:52	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	1.41	0.0098 (ppm)	475.8463
3/15/2018 09:55:52	Contract Required Detection Limit	Al (394.401 nm)	0.1717 (ppm)	0.54	0.1717 (ppm)	1851.2312
3/15/2018 09:55:52	Contract Required Detection Limit	As (188.980 nm)	0.0215 (ppm)	10.19	0.0215 (ppm)	13.2069
3/15/2018 09:55:52	Contract Required Detection Limit	B (249.772 nm)	0.1979 (ppm)	0.20	0.1979 (ppm)	5074.0021
3/15/2018 09:55:52	Contract Required Detection Limit	Ba (230.424 nm)	0.2077 (ppm)	0.11	0.2077 (ppm)	5822.4238
3/15/2018 09:55:52	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.24	0.0050 (ppm)	5585.4207
3/15/2018 09:55:52	Contract Required Detection Limit	Ca (227.547 nm)	0.9611 (ppm)	2.70	0.9611 (ppm)	46.9406
3/15/2018 09:55:52	Contract Required Detection Limit	Cd (214.439 nm)	0.0100 (ppm)	1.42	0.0100 (ppm)	214.4782
3/15/2018 09:55:52	Contract Required Detection Limit	Co (230.786 nm)	0.0514 (ppm)	1.01	0.0514 (ppm)	448.9659
3/15/2018 09:55:52	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	0.73	0.0102 (ppm)	409.2014
3/15/2018 09:55:52	Contract Required Detection Limit	Cu (327.395 nm)	0.0241 (ppm)	0.22	0.0241 (ppm)	1146.7429
3/15/2018 09:55:52	Contract Required Detection Limit	Fe (234.350 nm)	0.1047 (ppm)	0.42	0.1047 (ppm)	1003.2538

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 09:55:52	Contract Required Detection Limit	K (766.491 nm)	0.9568 (ppm)	1.32	0.9568 (ppm)	2078.4497
3/15/2018 09:55:52	Contract Required Detection Limit	Mg (279.078 nm)	0.9988 (ppm)	0.19	0.9988 (ppm)	1760.8124
3/15/2018 09:55:52	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.27	0.0154 (ppm)	4034.8991
3/15/2018 09:55:52	Contract Required Detection Limit	Mo (202.032 nm)	0.0253 (ppm)	0.24	0.0253 (ppm)	219.2998
3/15/2018 09:55:52	Contract Required Detection Limit	Na (588.995 nm)	1.0245 (ppm)	0.34	1.0245 (ppm)	22928.5954
3/15/2018 09:55:52	Contract Required Detection Limit	Ni (230.299 nm)	0.0411 (ppm)	2.93	0.0411 (ppm)	231.0846
3/15/2018 09:55:52	Contract Required Detection Limit	Pb (220.353 nm)	0.0112 (ppm)	1.70	0.0112 (ppm)	27.4028
3/15/2018 09:55:52	Contract Required Detection Limit	Sb (217.582 nm)	0.0611 (ppm)	1.31	0.0611 (ppm)	76.7175
3/15/2018 09:55:52	Contract Required Detection Limit	Se (196.026 nm)	0.0100 (ppm)	16.51	0.0100 (ppm)	6.2109
3/15/2018 09:55:52	Contract Required Detection Limit	Sn (189.925 nm)	0.5015 (ppm)	0.39	0.5015 (ppm)	552.2506
3/15/2018 09:55:52	Contract Required Detection Limit	Sr (216.596 nm)	0.1005 (ppm)	1.07	0.1005 (ppm)	1240.8961
3/15/2018 09:55:52	Contract Required Detection Limit	Ti (336.122 nm)	0.0509 (ppm)	0.18	0.0509 (ppm)	7643.1137
3/15/2018 09:55:52	Contract Required Detection Limit	Tl (351.923 nm)	0.0224 (ppm)	8.25	0.0224 (ppm)	56.5796
3/15/2018 09:55:52	Contract Required Detection Limit	V (292.401 nm)	0.0488 (ppm)	0.44	0.0488 (ppm)	1552.3753
3/15/2018 09:55:52	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.21	1.03 (Ratio)	726772.87
3/15/2018 09:55:52	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.21	1.03 (Ratio)	725959.40
3/15/2018 09:55:52	Contract Required Detection Limit	Zn (213.857 nm)	0.0192 (ppm)	0.80	0.0192 (ppm)	508.1140
3/15/2018 09:59:11	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u (ppm)	35.59	-0.0003 (ppm)	-110.4009
3/15/2018 09:59:11	Interference Check Solution A	Al (394.401 nm)	269.4150 o (ppm)	0.02	269.4150 (ppm)	2671885.5668
3/15/2018 09:59:11	Interference Check Solution A	As (188.980 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	-2.4607
3/15/2018 09:59:11	Interference Check Solution A	B (249.772 nm)	0.0436 (ppm)	0.41	0.0436 (ppm)	1218.2709
3/15/2018 09:59:11	Interference Check Solution A	Ba (230.424 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	10.6456
3/15/2018 09:59:11	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	38.11	0.0000 (ppm)	-618.8892
3/15/2018 09:59:11	Interference Check Solution A	Ca (227.547 nm)	269.2931 o (ppm)	0.12	269.2931 (ppm)	11895.6047
3/15/2018 09:59:11	Interference Check Solution A	Cd (214.439 nm)	-0.0011 Ku (ppm)	22.12	-0.0011 (ppm)	-7.0943 K
3/15/2018 09:59:11	Interference Check Solution A	Co (230.786 nm)	-0.0022 u (ppm)	12.85	-0.0022 (ppm)	-24.3873
3/15/2018 09:59:11	Interference Check Solution A	Cr (267.716 nm)	0.0004 (ppm)	20.38	0.0004 (ppm)	16.8752
3/15/2018 09:59:11	Interference Check Solution A	Cu (327.395 nm)	0.0008 (ppm)	10.24	0.0008 (ppm)	53.3032
3/15/2018 09:59:11	Interference Check Solution A	Fe (234.350 nm)	94.7164 o (ppm)	0.08	94.7164 (ppm)	891852.6814
3/15/2018 09:59:11	Interference Check Solution A	K (766.491 nm)	0.0504 (ppm)	19.42	0.0504 (ppm)	99.7502
3/15/2018 09:59:11	Interference Check Solution A	Mg (279.078 nm)	267.3687 o (ppm)	0.15	267.3687 (ppm)	473027.8152
3/15/2018 09:59:11	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.49	0.0016 (ppm)	442.4637
3/15/2018 09:59:11	Interference Check Solution A	Mo (202.032 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	2.5722
3/15/2018 09:59:11	Interference Check Solution A	Na (588.995 nm)	-0.0114 u (ppm)	15.80	-0.0114 (ppm)	-9310.9430
3/15/2018 09:59:11	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	24.57	-0.0024 (ppm)	-33.2831
3/15/2018 09:59:11	Interference Check Solution A	Pb (220.353 nm)	-0.0016 u (ppm)	99.60	-0.0016 (ppm)	2.5896
3/15/2018 09:59:11	Interference Check Solution A	Sb (217.582 nm)	0.0028 u (ppm)	> 100.00	0.0028 (ppm)	5.8471
3/15/2018 09:59:11	Interference Check Solution A	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.7452
3/15/2018 09:59:11	Interference Check Solution A	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.7203
3/15/2018 09:59:11	Interference Check Solution A	Sr (216.596 nm)	0.0187 (ppm)	2.19	0.0187 (ppm)	229.0022
3/15/2018 09:59:11	Interference Check Solution A	Ti (336.122 nm)	0.0019 (ppm)	0.48	0.0019 (ppm)	-318.9251
3/15/2018 09:59:11	Interference Check Solution A	Tl (351.923 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	10.8131
3/15/2018 09:59:11	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	12.23	0.0035 (ppm)	234.4268 K
3/15/2018 09:59:11	Interference Check Solution A	Y (360.074 nm)	0.92 (Ratio)	0.40	0.92 (Ratio)	650463.67
3/15/2018 09:59:11	Interference Check Solution A	Y_R (360.074 nm)	0.93 (Ratio)	0.41	0.93 (Ratio)	650301.90
3/15/2018 09:59:11	Interference Check Solution A	Zn (213.857 nm)	0.0094 (ppm)	0.77	0.0094 (ppm)	240.7549
3/15/2018 10:02:30	Interference Check Solution AB	Ag (328.068 nm)	0.2147 (ppm)	0.33	0.2147 (ppm)	12382.9136
3/15/2018 10:02:30	Interference Check Solution AB	Al (394.401 nm)	267.5058 o (ppm)	0.25	267.5058 (ppm)	2652952.0461
3/15/2018 10:02:30	Interference Check Solution AB	As (188.980 nm)	0.1068 (ppm)	1.94	0.1068 (ppm)	84.1692
3/15/2018 10:02:30	Interference Check Solution AB	B (249.772 nm)	0.0446 (ppm)	0.48	0.0446 (ppm)	1243.7050
3/15/2018 10:02:30	Interference Check Solution AB	Ba (230.424 nm)	0.5293 (ppm)	0.31	0.5293 (ppm)	14827.1704

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:02:30	Interference Check Solution AB	Be (313.107 nm)	0.5074 (ppm)	0.27	0.5074 (ppm)	627954.4934
3/15/2018 10:02:30	Interference Check Solution AB	Ca (227.547 nm)	266.6033 o (ppm)	0.33	266.6033 (ppm)	11776.8291
3/15/2018 10:02:30	Interference Check Solution AB	Cd (214.439 nm)	0.9753 (ppm)	0.15	0.9753 (ppm)	19511.9141
3/15/2018 10:02:30	Interference Check Solution AB	Co (230.786 nm)	0.4982 (ppm)	0.50	0.4982 (ppm)	4401.1118
3/15/2018 10:02:30	Interference Check Solution AB	Cr (267.716 nm)	0.5147 (ppm)	0.33	0.5147 (ppm)	20540.6218
3/15/2018 10:02:30	Interference Check Solution AB	Cu (327.395 nm)	0.5355 (ppm)	0.33	0.5355 (ppm)	25198.0483
3/15/2018 10:02:30	Interference Check Solution AB	Fe (234.350 nm)	94.0765 o (ppm)	0.33	94.0765 (ppm)	885827.7280
3/15/2018 10:02:30	Interference Check Solution AB	K (766.491 nm)	0.0230 (ppm)	60.15	0.0230 (ppm)	39.9763
3/15/2018 10:02:30	Interference Check Solution AB	Mg (279.078 nm)	265.4817 o (ppm)	0.36	265.4817 (ppm)	469689.2742
3/15/2018 10:02:30	Interference Check Solution AB	Mn (257.610 nm)	0.5076 (ppm)	0.32	0.5076 (ppm)	132442.8477
3/15/2018 10:02:30	Interference Check Solution AB	Mo (202.032 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	10.2330
3/15/2018 10:02:30	Interference Check Solution AB	Na (588.995 nm)	-0.0048 u (ppm)	11.45	-0.0048 (ppm)	-9105.6085
3/15/2018 10:02:30	Interference Check Solution AB	Ni (230.299 nm)	0.9757 (ppm)	0.38	0.9757 (ppm)	5803.6431
3/15/2018 10:02:30	Interference Check Solution AB	Pb (220.353 nm)	0.0459 (ppm)	4.82	0.0459 (ppm)	94.9094
3/15/2018 10:02:30	Interference Check Solution AB	Sb (217.582 nm)	0.6221 (ppm)	0.44	0.6221 (ppm)	758.0081
3/15/2018 10:02:30	Interference Check Solution AB	Se (196.026 nm)	0.0528 (ppm)	17.14	0.0528 (ppm)	41.9148
3/15/2018 10:02:30	Interference Check Solution AB	Sn (189.925 nm)	-0.0019 u (ppm)	93.18	-0.0019 (ppm)	-3.9643
3/15/2018 10:02:30	Interference Check Solution AB	Sr (216.596 nm)	0.0195 (ppm)	1.67	0.0195 (ppm)	238.1000
3/15/2018 10:02:30	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	4.90	0.0016 (ppm)	-358.3906
3/15/2018 10:02:30	Interference Check Solution AB	Ti (351.923 nm)	0.1129 (ppm)	1.70	0.1129 (ppm)	251.3114
3/15/2018 10:02:30	Interference Check Solution AB	V (292.401 nm)	0.5099 (ppm)	0.27	0.5099 (ppm)	14968.9383
3/15/2018 10:02:30	Interference Check Solution AB	Y (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	653115.20
3/15/2018 10:02:30	Interference Check Solution AB	Y_R (360.074 nm)	0.93 (Ratio)	0.61	0.93 (Ratio)	653118.40
3/15/2018 10:02:30	Interference Check Solution AB	Zn (213.857 nm)	0.9872 (ppm)	0.39	0.9872 (ppm)	26780.5709
3/15/2018 10:05:48	Continuing Calibration Verification	Ag (328.068 nm)	0.4824 (ppm)	0.32	0.4824 (ppm)	27946.1031
3/15/2018 10:05:48	Continuing Calibration Verification	Al (394.401 nm)	9.7143 (ppm)	0.19	9.7143 (ppm)	96483.2392
3/15/2018 10:05:48	Continuing Calibration Verification	As (188.980 nm)	0.9789 (ppm)	0.23	0.9789 (ppm)	809.8070
3/15/2018 10:05:48	Continuing Calibration Verification	B (249.772 nm)	2.4420 (ppm)	0.03	2.4420 (ppm)	61145.5299
3/15/2018 10:05:48	Continuing Calibration Verification	Ba (230.424 nm)	10.3243 (ppm)	0.24	10.3243 (ppm)	289082.2000
3/15/2018 10:05:48	Continuing Calibration Verification	Be (313.107 nm)	0.2526 (ppm)	0.07	0.2526 (ppm)	312355.0424
3/15/2018 10:05:48	Continuing Calibration Verification	Ca (227.547 nm)	24.2005 (ppm)	0.30	24.2005 (ppm)	1073.1171
3/15/2018 10:05:48	Continuing Calibration Verification	Cd (214.439 nm)	0.5009 (ppm)	0.08	0.5009 (ppm)	10027.6484
3/15/2018 10:05:48	Continuing Calibration Verification	Co (230.786 nm)	2.5856 (ppm)	0.08	2.5856 (ppm)	22864.5580
3/15/2018 10:05:48	Continuing Calibration Verification	Cr (267.716 nm)	0.5265 (ppm)	0.22	0.5265 (ppm)	21011.3365
3/15/2018 10:05:48	Continuing Calibration Verification	Cu (327.395 nm)	1.2159 (ppm)	0.22	1.2159 (ppm)	57190.4546
3/15/2018 10:05:48	Continuing Calibration Verification	Fe (234.350 nm)	5.0589 (ppm)	0.11	5.0589 (ppm)	47651.4955
3/15/2018 10:05:48	Continuing Calibration Verification	K (766.491 nm)	24.6219 (ppm)	0.13	24.6219 (ppm)	53742.4846
3/15/2018 10:05:48	Continuing Calibration Verification	Mg (279.078 nm)	24.9243 (ppm)	0.01	24.9243 (ppm)	44090.3804
3/15/2018 10:05:48	Continuing Calibration Verification	Mn (257.610 nm)	0.7721 (ppm)	0.11	0.7721 (ppm)	201448.3782
3/15/2018 10:05:48	Continuing Calibration Verification	Mo (202.032 nm)	2.4964 (ppm)	0.17	2.4964 (ppm)	21066.4330
3/15/2018 10:05:48	Continuing Calibration Verification	Na (588.995 nm)	24.8652 (ppm)	0.25	24.8652 (ppm)	764920.8029
3/15/2018 10:05:48	Continuing Calibration Verification	Ni (230.299 nm)	2.0689 (ppm)	0.09	2.0689 (ppm)	12538.5195
3/15/2018 10:05:48	Continuing Calibration Verification	Pb (220.353 nm)	0.5030 (ppm)	0.32	0.5030 (ppm)	984.5847
3/15/2018 10:05:48	Continuing Calibration Verification	Sb (217.582 nm)	4.9621 (ppm)	0.13	4.9621 (ppm)	6028.6979
3/15/2018 10:05:48	Continuing Calibration Verification	Se (196.026 nm)	0.4898 (ppm)	0.44	0.4898 (ppm)	406.2997
3/15/2018 10:05:48	Continuing Calibration Verification	Sn (189.925 nm)	5.0734 (ppm)	0.21	5.0734 (ppm)	5603.2274
3/15/2018 10:05:48	Continuing Calibration Verification	Sr (216.596 nm)	2.5343 (ppm)	0.80	2.5343 (ppm)	31340.7646
3/15/2018 10:05:48	Continuing Calibration Verification	Ti (336.122 nm)	2.4910 (ppm)	0.10	2.4910 (ppm)	403957.8299
3/15/2018 10:05:48	Continuing Calibration Verification	Ti (351.923 nm)	0.9975 (ppm)	0.66	0.9975 (ppm)	2155.1667
3/15/2018 10:05:48	Continuing Calibration Verification	V (292.401 nm)	2.5312 (ppm)	0.22	2.5312 (ppm)	73778.2074
3/15/2018 10:05:48	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.37	0.99 (Ratio)	701110.01

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:05:48	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	0.37	1.00 (Ratio)	701045.01
3/15/2018 10:05:48	Continuing Calibration Verification	Zn (213.857 nm)	0.9688 (ppm)	0.03	0.9688 (ppm)	26279.7801
3/15/2018 10:09:07	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u (ppm)	6.44	-0.0003 (ppm)	-112.8180
3/15/2018 10:09:07	Continuing Calibration Blank	Al (394.401 nm)	-0.0038 u (ppm)	34.58	-0.0038 (ppm)	110.7732
3/15/2018 10:09:07	Continuing Calibration Blank	As (188.980 nm)	0.0023 (ppm)	5.21	0.0023 (ppm)	-2.7265
3/15/2018 10:09:07	Continuing Calibration Blank	B (249.772 nm)	0.0002 (ppm)	74.59	0.0002 (ppm)	135.0089
3/15/2018 10:09:07	Continuing Calibration Blank	Ba (230.424 nm)	0.0006 (ppm)	30.41	0.0006 (ppm)	23.2333
3/15/2018 10:09:07	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	7.99	0.0000 (ppm)	-524.7734
3/15/2018 10:09:07	Continuing Calibration Blank	Ca (227.547 nm)	0.0423 (ppm)	92.38	0.0423 (ppm)	6.3707
3/15/2018 10:09:07	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	16.3905
3/15/2018 10:09:07	Continuing Calibration Blank	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.1049
3/15/2018 10:09:07	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	1.9128
3/15/2018 10:09:07	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	15.7056
3/15/2018 10:09:07	Continuing Calibration Blank	Fe (234.350 nm)	0.0013 (ppm)	27.92	0.0013 (ppm)	29.9732
3/15/2018 10:09:07	Continuing Calibration Blank	K (766.491 nm)	0.0089 u (ppm)	> 100.00	0.0089 (ppm)	9.0661
3/15/2018 10:09:07	Continuing Calibration Blank	Mg (279.078 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	-4.6308
3/15/2018 10:09:07	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	34.02	0.0000 (ppm)	26.3850
3/15/2018 10:09:07	Continuing Calibration Blank	Mo (202.032 nm)	0.0018 (ppm)	17.46	0.0018 (ppm)	20.8826
3/15/2018 10:09:07	Continuing Calibration Blank	Na (588.995 nm)	0.0175 (ppm)	4.27	0.0175 (ppm)	-8412.0670
3/15/2018 10:09:07	Continuing Calibration Blank	Ni (230.299 nm)	-0.0006 u (ppm)	92.02	-0.0006 (ppm)	-22.3760
3/15/2018 10:09:07	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.4219
3/15/2018 10:09:07	Continuing Calibration Blank	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	3.1530
3/15/2018 10:09:07	Continuing Calibration Blank	Se (196.026 nm)	-0.0025 u (ppm)	79.70	-0.0025 (ppm)	-4.1696
3/15/2018 10:09:07	Continuing Calibration Blank	Sn (189.925 nm)	0.0027 (ppm)	20.81	0.0027 (ppm)	1.1176
3/15/2018 10:09:07	Continuing Calibration Blank	Sr (216.596 nm)	0.0004 (ppm)	25.63	0.0004 (ppm)	2.5568
3/15/2018 10:09:07	Continuing Calibration Blank	Ti (336.122 nm)	0.0007 (ppm)	22.57	0.0007 (ppm)	-506.3026
3/15/2018 10:09:07	Continuing Calibration Blank	Tl (351.923 nm)	0.0023 (ppm)	> 100.00	0.0023 (ppm)	13.3593
3/15/2018 10:09:07	Continuing Calibration Blank	V (292.401 nm)	0.0003 (ppm)	48.32	0.0003 (ppm)	139.7515
3/15/2018 10:09:07	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.49	1.01 (Ratio)	712793.96
3/15/2018 10:09:07	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.49	1.01 (Ratio)	712801.26
3/15/2018 10:09:07	Continuing Calibration Blank	Zn (213.857 nm)	-0.0004 u (ppm)	19.76	-0.0004 (ppm)	-24.4257
3/15/2018 10:12:26	PB TCLP	Ag (328.068 nm)	-0.0003 u (ppm)	17.82	-0.0003 (ppm)	-110.5489
3/15/2018 10:12:26	PB TCLP	Al (394.401 nm)	-0.0028 u (ppm)	26.21	-0.0028 (ppm)	120.1203
3/15/2018 10:12:26	PB TCLP	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-3.9019
3/15/2018 10:12:26	PB TCLP	B (249.772 nm)	0.0011 (ppm)	7.17	0.0011 (ppm)	156.7072
3/15/2018 10:12:26	PB TCLP	Ba (230.424 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.0935
3/15/2018 10:12:26	PB TCLP	Be (313.107 nm)	0.0000 (ppm)	17.87	0.0000 (ppm)	-533.6643
3/15/2018 10:12:26	PB TCLP	Ca (227.547 nm)	0.0116 u (ppm)	> 100.00	0.0116 (ppm)	5.0131
3/15/2018 10:12:26	PB TCLP	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.1532
3/15/2018 10:12:26	PB TCLP	Co (230.786 nm)	-0.0004 u (ppm)	28.53	-0.0004 (ppm)	-8.9227
3/15/2018 10:12:26	PB TCLP	Cr (267.716 nm)	-0.0001 u (ppm)	40.92	-0.0001 (ppm)	-3.0760
3/15/2018 10:12:26	PB TCLP	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.0764
3/15/2018 10:12:26	PB TCLP	Fe (234.350 nm)	0.0006 (ppm)	35.92	0.0006 (ppm)	22.7654
3/15/2018 10:12:26	PB TCLP	K (766.491 nm)	0.0501 (ppm)	21.38	0.0501 (ppm)	99.0894
3/15/2018 10:12:26	PB TCLP	Mg (279.078 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-4.3970
3/15/2018 10:12:26	PB TCLP	Mn (257.610 nm)	0.0000 (ppm)	41.60	0.0000 (ppm)	28.9837
3/15/2018 10:12:26	PB TCLP	Mo (202.032 nm)	0.0003 (ppm)	63.56	0.0003 (ppm)	8.8539
3/15/2018 10:12:26	PB TCLP	Na (588.995 nm)	0.0249 (ppm)	8.33	0.0249 (ppm)	-8182.5072
3/15/2018 10:12:26	PB TCLP	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-20.9175
3/15/2018 10:12:26	PB TCLP	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.4573
3/15/2018 10:12:26	PB TCLP	Sb (217.582 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	3.5281

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:12:26	PB TCLP	Se (196.026 nm)	0.0012 (ppm)	16.34	0.0012 (ppm)	-1.1000
3/15/2018 10:12:26	PB TCLP	Sn (189.925 nm)	0.0020 (ppm)	49.57	0.0020 (ppm)	0.3853
3/15/2018 10:12:26	PB TCLP	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-1.5184
3/15/2018 10:12:26	PB TCLP	Ti (336.122 nm)	0.0008 (ppm)	12.82	0.0008 (ppm)	-487.8570
3/15/2018 10:12:26	PB TCLP	Ti (351.923 nm)	0.0052 (ppm)	41.45	0.0052 (ppm)	19.5219
3/15/2018 10:12:26	PB TCLP	V (292.401 nm)	0.0002 (ppm)	35.25	0.0002 (ppm)	138.4504
3/15/2018 10:12:26	PB TCLP	Y (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	714452.05
3/15/2018 10:12:26	PB TCLP	Y_R (360.074 nm)	1.02 (Ratio)	0.62	1.02 (Ratio)	714609.96
3/15/2018 10:12:26	PB TCLP	Zn (213.857 nm)	0.0008 (ppm)	10.32	0.0008 (ppm)	7.1712
3/15/2018 10:15:45	LCSW TCLP	Ag (328.068 nm)	0.2484 (ppm)	0.18	0.2484 (ppm)	14344.2222
3/15/2018 10:15:45	LCSW TCLP	Al (394.401 nm)	-0.0026 u (ppm)	3.63	-0.0026 (ppm)	122.8884
3/15/2018 10:15:45	LCSW TCLP	As (188.980 nm)	0.9892 (ppm)	1.09	0.9892 (ppm)	818.3932
3/15/2018 10:15:45	LCSW TCLP	B (249.772 nm)	0.0006 (ppm)	44.97	0.0006 (ppm)	146.0240
3/15/2018 10:15:45	LCSW TCLP	Ba (230.424 nm)	2.0816 (ppm)	0.44	2.0816 (ppm)	58289.7915
3/15/2018 10:15:45	LCSW TCLP	Be (313.107 nm)	0.0000 (ppm)	9.46	0.0000 (ppm)	-537.8425
3/15/2018 10:15:45	LCSW TCLP	Ca (227.547 nm)	-0.0615 u (ppm)	> 100.00	-0.0615 (ppm)	1.7845
3/15/2018 10:15:45	LCSW TCLP	Cd (214.439 nm)	0.5121 (ppm)	0.07	0.5121 (ppm)	10251.8885
3/15/2018 10:15:45	LCSW TCLP	Co (230.786 nm)	-0.0012 u (ppm)	40.76	-0.0012 (ppm)	-15.4702
3/15/2018 10:15:45	LCSW TCLP	Cr (267.716 nm)	0.5214 (ppm)	0.11	0.5214 (ppm)	20809.8455
3/15/2018 10:15:45	LCSW TCLP	Cu (327.395 nm)	0.9930 (ppm)	0.32	0.9930 (ppm)	46710.5265
3/15/2018 10:15:45	LCSW TCLP	Fe (234.350 nm)	0.0095 (ppm)	2.22	0.0095 (ppm)	107.1670
3/15/2018 10:15:45	LCSW TCLP	K (766.491 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	-3.7613
3/15/2018 10:15:45	LCSW TCLP	Mg (279.078 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-4.3137
3/15/2018 10:15:45	LCSW TCLP	Mn (257.610 nm)	0.0000 (ppm)	32.22	0.0000 (ppm)	24.5189
3/15/2018 10:15:45	LCSW TCLP	Mo (202.032 nm)	0.0002 (ppm)	91.58	0.0002 (ppm)	7.7110
3/15/2018 10:15:45	LCSW TCLP	Na (588.995 nm)	0.0228 (ppm)	8.42	0.0228 (ppm)	-8246.7748
3/15/2018 10:15:45	LCSW TCLP	Ni (230.299 nm)	1.0379 (ppm)	0.18	1.0379 (ppm)	6281.1088
3/15/2018 10:15:45	LCSW TCLP	Pb (220.353 nm)	0.5185 (ppm)	0.89	0.5185 (ppm)	1014.8351
3/15/2018 10:15:45	LCSW TCLP	Sb (217.582 nm)	-0.0031 u (ppm)	76.78	-0.0031 (ppm)	-1.2484
3/15/2018 10:15:45	LCSW TCLP	Se (196.026 nm)	1.0055 (ppm)	0.18	1.0055 (ppm)	836.3031
3/15/2018 10:15:45	LCSW TCLP	Sn (189.925 nm)	0.0011 (ppm)	51.35	0.0011 (ppm)	-0.6370
3/15/2018 10:15:45	LCSW TCLP	Sr (216.596 nm)	0.0007 (ppm)	78.75	0.0007 (ppm)	5.7104
3/15/2018 10:15:45	LCSW TCLP	Ti (336.122 nm)	0.0008 (ppm)	4.05	0.0008 (ppm)	-489.9426
3/15/2018 10:15:45	LCSW TCLP	Ti (351.923 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	7.3087
3/15/2018 10:15:45	LCSW TCLP	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	132.2687
3/15/2018 10:15:45	LCSW TCLP	Y (360.074 nm)	1.02 (Ratio)	0.47	1.02 (Ratio)	717422.55
3/15/2018 10:15:45	LCSW TCLP	Y_R (360.074 nm)	1.02 (Ratio)	0.48	1.02 (Ratio)	717765.13
3/15/2018 10:15:45	LCSW TCLP	Zn (213.857 nm)	0.9518 (ppm)	0.18	0.9518 (ppm)	25818.9873
3/15/2018 10:19:04	MBLK	Ag (328.068 nm)	-0.0003 u (ppm)	27.52	-0.0003 (ppm)	-114.0030
3/15/2018 10:19:04	MBLK	Al (394.401 nm)	0.0009 (ppm)	73.91	0.0009 (ppm)	157.0723
3/15/2018 10:19:04	MBLK	As (188.980 nm)	0.0042 (ppm)	84.51	0.0042 (ppm)	-1.1849
3/15/2018 10:19:04	MBLK	B (249.772 nm)	0.0508 (ppm)	0.15	0.0508 (ppm)	1399.1266
3/15/2018 10:19:04	MBLK	Ba (230.424 nm)	0.0039 (ppm)	2.08	0.0039 (ppm)	115.9534
3/15/2018 10:19:04	MBLK	Be (313.107 nm)	0.0000 (ppm)	10.03	0.0000 (ppm)	-606.7993
3/15/2018 10:19:04	MBLK	Ca (227.547 nm)	0.1709 (ppm)	25.05	0.1709 (ppm)	12.0494
3/15/2018 10:19:04	MBLK	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	14.9105
3/15/2018 10:19:04	MBLK	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-6.6371
3/15/2018 10:19:04	MBLK	Cr (267.716 nm)	0.0007 (ppm)	16.06	0.0007 (ppm)	29.9226
3/15/2018 10:19:04	MBLK	Cu (327.395 nm)	0.0018 (ppm)	6.76	0.0018 (ppm)	101.8330
3/15/2018 10:18:04	MBLK	Fe (234.350 nm)	0.0253 (ppm)	0.68	0.0253 (ppm)	255.8149
3/15/2018 10:19:04	MBLK	K (766.491 nm)	1.5637 (ppm)	1.27	1.5637 (ppm)	3403.5110



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:19:04	MBLK	Mg (279.078 nm)	0.0244 (ppm)	3.81	0.0244 (ppm)	37.0074
3/15/2018 10:19:04	MBLK	Mn (257.610 nm)	0.0005 (ppm)	4.25	0.0005 (ppm)	154.1033
3/15/2018 10:19:04	MBLK	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	6.6385
3/15/2018 10:19:04	MBLK	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 10:19:04	MBLK	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-19.6887
3/15/2018 10:19:04	MBLK	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.2799
3/15/2018 10:19:04	MBLK	Sb (217.582 nm)	-0.0030 u (ppm)	21.51	-0.0030 (ppm)	-1.1993
3/15/2018 10:19:04	MBLK	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-2.4983
3/15/2018 10:19:04	MBLK	Sn (189.925 nm)	0.0019 (ppm)	58.98	0.0019 (ppm)	0.2231
3/15/2018 10:19:04	MBLK	Sr (216.596 nm)	0.0004 (ppm)	91.62	0.0004 (ppm)	2.4121
3/15/2018 10:19:04	MBLK	Ti (336.122 nm)	0.0009 (ppm)	14.47	0.0009 (ppm)	-473.5591
3/15/2018 10:19:04	MBLK	Tl (351.923 nm)	0.0017 (ppm)	71.48	0.0017 (ppm)	12.0342
3/15/2018 10:19:04	MBLK	V (292.401 nm)	0.0009 (ppm)	25.80	0.0009 (ppm)	157.4927
3/15/2018 10:19:04	MBLK	Y (360.074 nm)	0.91 (Ratio)	0.67	0.91 (Ratio)	642371.25
3/15/2018 10:19:04	MBLK	Y_R (360.074 nm)	0.92 (Ratio)	0.68	0.92 (Ratio)	643414.70
3/15/2018 10:19:04	MBLK	Zn (213.857 nm)	0.0076 (ppm)	1.56	0.0076 (ppm)	191.1897
3/15/2018 10:22:23	R1801855-001	Ag (328.068 nm)	-0.0004 u (ppm)	30.40	-0.0004 (ppm)	-116.8602
3/15/2018 10:22:23	R1801855-001	Al (394.401 nm)	0.2056 (ppm)	0.49	0.2056 (ppm)	2186.9237
3/15/2018 10:22:23	R1801855-001	As (188.980 nm)	0.0140 (ppm)	1.23	0.0140 (ppm)	6.9902
3/15/2018 10:22:23	R1801855-001	B (249.772 nm)	0.0878 (ppm)	0.53	0.0878 (ppm)	2324.9098
3/15/2018 10:22:23	R1801855-001	Ba (230.424 nm)	0.4172 (ppm)	0.57	0.4172 (ppm)	11688.4689
3/15/2018 10:22:23	R1801855-001	Be (313.107 nm)	0.0001 (ppm)	3.08	0.0001 (ppm)	-512.3456
3/15/2018 10:22:23	R1801855-001	Cb (227.547 nm)	268.8978 o (ppm)	0.23	268.8978 (ppm)	11878.1452
3/15/2018 10:22:23	R1801855-001	Cd (214.439 nm)	0.0060 (ppm)	2.27	0.0060 (ppm)	134.7593
3/15/2018 10:22:23	R1801855-001	Co (230.786 nm)	0.0050 (ppm)	6.31	0.0050 (ppm)	38.8145
3/15/2018 10:22:23	R1801855-001	Cr (267.716 nm)	0.0001 (ppm)	18.57	0.0001 (ppm)	5.1999
3/15/2018 10:22:23	R1801855-001	Cu (327.395 nm)	0.2632 (ppm)	0.55	0.2632 (ppm)	12393.7916
3/15/2018 10:22:23	R1801855-001	Fe (234.350 nm)	0.0355 (ppm)	0.42	0.0355 (ppm)	351.9325
3/15/2018 10:22:23	R1801855-001	K (766.491 nm)	4.8940 (ppm)	0.12	4.8940 (ppm)	10673.9854
3/15/2018 10:22:23	R1801855-001	Mg (279.078 nm)	21.6064 (ppm)	0.12	21.6064 (ppm)	38220.3138
3/15/2018 10:22:23	R1801855-001	Mn (257.610 nm)	0.5924 (ppm)	0.13	0.5924 (ppm)	154561.7907
3/15/2018 10:22:23	R1801855-001	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.5004
3/15/2018 10:22:23	R1801855-001	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 10:22:23	R1801855-001	Ni (230.299 nm)	0.0178 (ppm)	7.93	0.0178 (ppm)	89.3783
3/15/2018 10:22:23	R1801855-001	Pb (220.353 nm)	0.2708 (ppm)	0.31	0.2708 (ppm)	532.5911
3/15/2018 10:22:23	R1801855-001	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	3.8024
3/15/2018 10:22:23	R1801855-001	Se (196.026 nm)	-0.0028 u (ppm)	60.64	-0.0028 (ppm)	-4.4580
3/15/2018 10:22:23	R1801855-001	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.1200
3/15/2018 10:22:23	R1801855-001	Sr (216.596 nm)	0.5885 (ppm)	0.27	0.5885 (ppm)	7276.0184
3/15/2018 10:22:23	R1801855-001	Ti (336.122 nm)	0.0051 (ppm)	2.97	0.0051 (ppm)	201.5182
3/15/2018 10:22:23	R1801855-001	Tl (351.923 nm)	0.0093 (ppm)	64.61	0.0093 (ppm)	28.3163
3/15/2018 10:22:23	R1801855-001	V (292.401 nm)	0.0046 (ppm)	1.38	0.0046 (ppm)	265.6185
3/15/2018 10:22:23	R1801855-001	Y (360.074 nm)	0.90 (Ratio)	0.93	0.90 (Ratio)	635147.15
3/15/2018 10:22:23	R1801855-001	Y_R (360.074 nm)	0.91 (Ratio)	0.93	0.91 (Ratio)	636129.15
3/15/2018 10:22:23	R1801855-001	Zn (213.857 nm)	3.6831 o (ppm)	1.07	3.6831 (ppm)	99948.2768
3/15/2018 10:25:42	R1801855-001S	Ag (328.068 nm)	0.2735 (ppm)	0.35	0.2735 (ppm)	15802.8319
3/15/2018 10:25:42	R1801855-001S	Al (394.401 nm)	0.2045 (ppm)	0.15	0.2045 (ppm)	2175.8861
3/15/2018 10:25:42	R1801855-001S	As (188.980 nm)	1.0798 (ppm)	0.90	1.0798 (ppm)	893.7959
3/15/2018 10:25:42	R1801855-001S	B (249.772 nm)	0.0872 (ppm)	0.42	0.0872 (ppm)	2307.7272
3/15/2018 10:25:42	R1801855-001S	Ba (230.424 nm)	2.4392 (ppm)	0.63	2.4392 (ppm)	68303.1978
3/15/2018 10:25:42	R1801855-001S	Be (313.107 nm)	0.0001 (ppm)	16.43	0.0001 (ppm)	-506.7983

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:25:42	R1801855-001S	Ca (227.547 nm)	268.4023 o (ppm)	0.27	268.4023 (ppm)	11856.2674
3/15/2018 10:25:42	R1801855-001S	Cd (214.439 nm)	0.4861 (ppm)	0.29	0.4861 (ppm)	9731.7131
3/15/2018 10:25:42	R1801855-001S	Co (230.786 nm)	0.0041 (ppm)	15.45	0.0041 (ppm)	30.6384
3/15/2018 10:25:42	R1801855-001S	Cr (267.716 nm)	0.4928 (ppm)	0.35	0.4928 (ppm)	19668.9617
3/15/2018 10:25:42	R1801855-001S	Cu (327.395 nm)	1.4132 (ppm)	0.72	1.4132 (ppm)	66469.4535
3/15/2018 10:25:42	R1801855-001S	Fe (234.350 nm)	0.0395 (ppm)	0.55	0.0395 (ppm)	389.6600
3/15/2018 10:25:42	R1801855-001S	K (766.491 nm)	4.8572 (ppm)	0.68	4.8572 (ppm)	10593.5324
3/15/2018 10:25:42	R1801855-001S	Mg (279.078 nm)	21.4511 (ppm)	0.17	21.4511 (ppm)	37945.5289
3/15/2018 10:25:42	R1801855-001S	Mn (257.610 nm)	0.5915 (ppm)	0.34	0.5915 (ppm)	154339.4848
3/15/2018 10:25:42	R1801855-001S	Mo (202.032 nm)	0.0006 (ppm)	40.88	0.0006 (ppm)	11.1848
3/15/2018 10:25:42	R1801855-001S	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 10:25:42	R1801855-001S	Ni (230.299 nm)	0.9838 (ppm)	0.68	0.9838 (ppm)	5952.4112
3/15/2018 10:25:42	R1801855-001S	Pb (220.353 nm)	0.7716 (ppm)	0.36	0.7716 (ppm)	1507.3628
3/15/2018 10:25:42	R1801855-001S	Sb (217.582 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	5.1229
3/15/2018 10:25:42	R1801855-001S	Se (196.026 nm)	1.1527 o (ppm)	0.50	1.1527 (ppm)	959.0274
3/15/2018 10:25:42	R1801855-001S	Sn (189.925 nm)	0.0009 (ppm)	32.62	0.0009 (ppm)	-0.9048
3/15/2018 10:25:42	R1801855-001S	Sr (216.596 nm)	0.5887 (ppm)	0.17	0.5887 (ppm)	7278.7816
3/15/2018 10:25:42	R1801855-001S	Ti (336.122 nm)	0.0064 (ppm)	4.64	0.0064 (ppm)	416.6452
3/15/2018 10:25:42	R1801855-001S	Ti (351.923 nm)	0.0080 (ppm)	70.93	0.0080 (ppm)	25.5355
3/15/2018 10:25:42	R1801855-001S	V (292.401 nm)	0.0049 (ppm)	0.61	0.0049 (ppm)	275.3094
3/15/2018 10:25:42	R1801855-001S	Y (360.074 nm)	0.91 (Ratio)	0.49	0.91 (Ratio)	638912.66
3/15/2018 10:25:42	R1801855-001S	Y_R (360.074 nm)	0.91 (Ratio)	0.48	0.91 (Ratio)	639774.61
3/15/2018 10:25:42	R1801855-001S	Zn (213.857 nm)	4.5988 o (ppm)	0.51	4.5988 (ppm)	124801.1436
3/15/2018 10:29:01	R1801855-001SD	Ag (328.068 nm)	0.2716 (ppm)	0.88	0.2716 (ppm)	15691.6133
3/15/2018 10:29:01	R1801855-001SD	Al (394.401 nm)	0.1994 (ppm)	0.27	0.1994 (ppm)	2125.7381
3/15/2018 10:29:01	R1801855-001SD	As (188.980 nm)	1.0623 (ppm)	1.53	1.0623 (ppm)	879.2426
3/15/2018 10:29:01	R1801855-001SD	B (249.772 nm)	0.0869 (ppm)	0.84	0.0869 (ppm)	2301.4062
3/15/2018 10:29:01	R1801855-001SD	Ba (230.424 nm)	2.4251 (ppm)	0.62	2.4251 (ppm)	67909.5624
3/15/2018 10:29:01	R1801855-001SD	Be (313.107 nm)	0.0001 (ppm)	21.71	0.0001 (ppm)	-499.1917
3/15/2018 10:29:01	R1801855-001SD	Ca (227.547 nm)	269.3082 o (ppm)	0.76	269.3082 (ppm)	11896.2678
3/15/2018 10:29:01	R1801855-001SD	Cd (214.439 nm)	0.4849 (ppm)	0.34	0.4849 (ppm)	9707.7137
3/15/2018 10:29:01	R1801855-001SD	Co (230.786 nm)	0.0030 (ppm)	17.15	0.0030 (ppm)	21.5558
3/15/2018 10:29:01	R1801855-001SD	Cr (267.716 nm)	0.4907 (ppm)	0.30	0.4907 (ppm)	19586.0596
3/15/2018 10:29:01	R1801855-001SD	Cu (327.395 nm)	1.4155 (ppm)	0.22	1.4155 (ppm)	66576.9584
3/15/2018 10:29:01	R1801855-001SD	Fe (234.350 nm)	0.0413 (ppm)	0.30	0.0413 (ppm)	405.8983
3/15/2018 10:29:01	R1801855-001SD	K (766.491 nm)	4.8522 (ppm)	0.92	4.8522 (ppm)	10582.6961
3/15/2018 10:29:01	R1801855-001SD	Mg (279.078 nm)	21.5188 (ppm)	0.31	21.5188 (ppm)	38065.3734
3/15/2018 10:29:01	R1801855-001SD	Mn (257.610 nm)	0.5913 (ppm)	0.74	0.5913 (ppm)	154266.8773
3/15/2018 10:29:01	R1801855-001SD	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	7.1309
3/15/2018 10:29:01	R1801855-001SD	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 10:29:01	R1801855-001SD	Ni (230.299 nm)	0.9739 (ppm)	1.36	0.9739 (ppm)	5892.3734
3/15/2018 10:29:01	R1801855-001SD	Pb (220.353 nm)	0.7713 (ppm)	0.53	0.7713 (ppm)	1506.7502
3/15/2018 10:29:01	R1801855-001SD	Sb (217.582 nm)	0.0035 (ppm)	34.67	0.0035 (ppm)	6.6866
3/15/2018 10:29:01	R1801855-001SD	Se (196.026 nm)	1.1435 o (ppm)	0.23	1.1435 (ppm)	951.3311
3/15/2018 10:29:01	R1801855-001SD	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.7848
3/15/2018 10:29:01	R1801855-001SD	Sr (216.596 nm)	0.5874 (ppm)	0.91	0.5874 (ppm)	7262.6743
3/15/2018 10:29:01	R1801855-001SD	Ti (336.122 nm)	0.0048 (ppm)	7.92	0.0048 (ppm)	161.0954
3/15/2018 10:29:01	R1801855-001SD	Ti (351.923 nm)	0.0080 (ppm)	17.17	0.0080 (ppm)	25.5386
3/15/2018 10:29:01	R1801855-001SD	V (292.401 nm)	0.0048 (ppm)	4.21	0.0048 (ppm)	271.8292
3/15/2018 10:29:01	R1801855-001SD	Y (360.074 nm)	0.90 (Ratio)	1.30	0.90 (Ratio)	634253.60
3/15/2018 10:29:01	R1801855-001SD	Y_R (360.074 nm)	0.90 (Ratio)	1.29	0.90 (Ratio)	635030.44

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:29:01	R1801855-001SD	Zn (213.857 nm)	4.4863 (ppm)	4.95	4.4863 (ppm)	121747.2935
3/15/2018 10:32:20	R1801855-001A	Ag (328.068 nm)	0.1343 (ppm)	0.88	0.1343 (ppm)	7712.6532
3/15/2018 10:32:20	R1801855-001A	Al (394.401 nm)	0.2070 (ppm)	0.23	0.2070 (ppm)	2200.9203
3/15/2018 10:32:20	R1801855-001A	As (188.980 nm)	0.5505 (ppm)	0.78	0.5505 (ppm)	453.3435
3/15/2018 10:32:20	R1801855-001A	B (249.772 nm)	0.0867 (ppm)	0.75	0.0867 (ppm)	2296.3696
3/15/2018 10:32:20	R1801855-001A	Ba (230.424 nm)	1.3958 (ppm)	0.66	1.3958 (ppm)	39087.6662
3/15/2018 10:32:20	R1801855-001A	Be (313.107 nm)	0.0001 (ppm)	24.23	0.0001 (ppm)	-506.5250
3/15/2018 10:32:20	R1801855-001A	Ca (227.547 nm)	267.3372 (ppm)	0.88	267.3372 (ppm)	11809.2368
3/15/2018 10:32:20	R1801855-001A	Cd (214.439 nm)	0.2435 (ppm)	0.33	0.2435 (ppm)	4883.5041
3/15/2018 10:32:20	R1801855-001A	Co (230.786 nm)	0.0046 (ppm)	6.53	0.0046 (ppm)	35.6023
3/15/2018 10:32:20	R1801855-001A	Cr (267.716 nm)	0.2422 (ppm)	0.44	0.2422 (ppm)	9665.5602
3/15/2018 10:32:20	R1801855-001A	Cu (327.395 nm)	0.8314 (ppm)	0.70	0.8314 (ppm)	39109.0663
3/15/2018 10:32:20	R1801855-001A	Fe (234.350 nm)	0.0400 (ppm)	0.74	0.0400 (ppm)	394.2271
3/15/2018 10:32:20	R1801855-001A	K (766.491 nm)	4.8272 (ppm)	0.93	4.8272 (ppm)	10528.0806
3/15/2018 10:32:20	R1801855-001A	Mg (279.078 nm)	21.3090 (ppm)	0.56	21.3090 (ppm)	37694.0764
3/15/2018 10:32:20	R1801855-001A	Mn (257.610 nm)	0.5866 (ppm)	0.63	0.5866 (ppm)	153041.8043
3/15/2018 10:32:20	R1801855-001A	Mo (202.032 nm)	0.0003 (ppm)	77.63	0.0003 (ppm)	8.2798
3/15/2018 10:32:20	R1801855-001A	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 10:32:20	R1801855-001A	Ni (230.299 nm)	0.4918 (ppm)	0.50	0.4918 (ppm)	2966.3051
3/15/2018 10:32:20	R1801855-001A	Pb (220.353 nm)	0.5138 (ppm)	0.75	0.5138 (ppm)	1005.5823
3/15/2018 10:32:20	R1801855-001A	Sb (217.582 nm)	-0.0002 (ppm)	> 100.00	-0.0002 (ppm)	2.2150
3/15/2018 10:32:20	R1801855-001A	Se (196.026 nm)	0.5747 (ppm)	1.18	0.5747 (ppm)	477.1001
3/15/2018 10:32:20	R1801855-001A	Sn (189.925 nm)	0.0016 (ppm)	> 100.00	0.0016 (ppm)	-0.0708
3/15/2018 10:32:20	R1801855-001A	Sr (216.596 nm)	0.5819 (ppm)	0.48	0.5819 (ppm)	7194.0492
3/15/2018 10:32:20	R1801855-001A	Ti (336.122 nm)	0.0062 (ppm)	5.86	0.0062 (ppm)	376.7823
3/15/2018 10:32:20	R1801855-001A	Tl (351.923 nm)	0.0106 (ppm)	31.29	0.0106 (ppm)	31.2081
3/15/2018 10:32:20	R1801855-001A	V (292.401 nm)	0.0048 (ppm)	9.88	0.0048 (ppm)	271.3440
3/15/2018 10:32:20	R1801855-001A	Y (360.074 nm)	0.91 (Ratio)	0.68	0.91 (Ratio)	641776.62
3/15/2018 10:32:20	R1801855-001A	Y_R (360.074 nm)	0.91 (Ratio)	0.68	0.91 (Ratio)	642472.00
3/15/2018 10:32:20	R1801855-001A	Zn (213.857 nm)	4.1012 (ppm)	0.28	4.1012 (ppm)	111296.9910
3/15/2018 10:35:39	R1801855-001L	Ag (328.068 nm)	-0.0003 (ppm)	36.28	-0.0003 (ppm)	-111.8274
3/15/2018 10:35:39	R1801855-001L	Al (394.401 nm)	0.0470 (ppm)	3.23	0.0470 (ppm)	614.2780
3/15/2018 10:35:39	R1801855-001L	As (188.980 nm)	0.0055 (ppm)	69.80	0.0055 (ppm)	-0.0801
3/15/2018 10:35:39	R1801855-001L	B (249.772 nm)	0.0158 (ppm)	1.00	0.0158 (ppm)	525.3848
3/15/2018 10:35:39	R1801855-001L	Ba (230.424 nm)	0.0868 (ppm)	1.10	0.0868 (ppm)	2435.9192
3/15/2018 10:35:39	R1801855-001L	Be (313.107 nm)	0.0000 (ppm)	99.26	0.0000 (ppm)	-561.6783
3/15/2018 10:35:39	R1801855-001L	Ca (227.547 nm)	51.3994 (ppm)	0.97	51.3994 (ppm)	2274.1304
3/15/2018 10:35:39	R1801855-001L	Cd (214.439 nm)	0.0010 (ppm)	1.93	0.0010 (ppm)	35.4393
3/15/2018 10:35:39	R1801855-001L	Co (230.786 nm)	0.0013 (ppm)	5.20	0.0013 (ppm)	5.9579
3/15/2018 10:35:39	R1801855-001L	Cr (267.716 nm)	-0.0003 (ppm)	10.32	-0.0003 (ppm)	-10.0789
3/15/2018 10:35:39	R1801855-001L	Cu (327.395 nm)	0.0502 (ppm)	0.90	0.0502 (ppm)	2373.6923
3/15/2018 10:35:39	R1801855-001L	Fe (234.350 nm)	0.0068 (ppm)	1.31	0.0068 (ppm)	81.7205
3/15/2018 10:35:39	R1801855-001L	K (766.491 nm)	0.8664 (ppm)	1.64	0.8664 (ppm)	1881.2194
3/15/2018 10:35:39	R1801855-001L	Mg (279.078 nm)	4.4896 (ppm)	1.27	4.4896 (ppm)	7936.9570
3/15/2018 10:35:39	R1801855-001L	Mn (257.610 nm)	0.1239 (ppm)	1.28	0.1239 (ppm)	32351.4370
3/15/2018 10:35:39	R1801855-001L	Mo (202.032 nm)	0.0003 (ppm)	52.39	0.0003 (ppm)	8.8416
3/15/2018 10:35:39	R1801855-001L	Na (588.995 nm)	270.6478 (ppm)	1.32	270.6478 (ppm)	8414378.5063
3/15/2018 10:35:39	R1801855-001L	Ni (230.299 nm)	0.0048 (ppm)	6.80	0.0048 (ppm)	10.8836
3/15/2018 10:35:39	R1801855-001L	Pb (220.353 nm)	0.0558 (ppm)	5.03	0.0558 (ppm)	114.2634
3/15/2018 10:35:39	R1801855-001L	Sb (217.582 nm)	0.0012 (ppm)	> 100.00	0.0012 (ppm)	3.8898
3/15/2018 10:35:39	R1801855-001L	Se (196.026 nm)	0.0012 (ppm)	> 100.00	0.0012 (ppm)	-1.0948

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:35:39	R1801855-001L	Sn (189.925 nm)	0.0011 (ppm)	> 100.00	0.0011 (ppm)	-0.6606
3/15/2018 10:35:39	R1801855-001L	Sr (216.596 nm)	0.1245 (ppm)	1.39	0.1245 (ppm)	1537.5275
3/15/2018 10:35:39	R1801855-001L	Ti (336.122 nm)	0.0028 (ppm)	2.77	0.0028 (ppm)	-172.8692
3/15/2018 10:35:39	R1801855-001L	Tl (351.923 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	12.7452
3/15/2018 10:35:39	R1801855-001L	V (292.401 nm)	0.0010 (ppm)	2.27	0.0010 (ppm)	159.7767
3/15/2018 10:35:39	R1801855-001L	Y (360.074 nm)	1.01 (Ratio)	1.32	1.01 (Ratio)	709443.83
3/15/2018 10:35:39	R1801855-001L	Y_R (360.074 nm)	1.01 (Ratio)	1.32	1.01 (Ratio)	709792.65
3/15/2018 10:35:39	R1801855-001L	Zn (213.857 nm)	0.7803 (ppm)	1.48	0.7803 (ppm)	21162.8352
3/15/2018 10:38:59	R1801855-002	Ag (328.068 nm)	-0.0004 u (ppm)	34.76	-0.0004 (ppm)	-116.9355
3/15/2018 10:38:59	R1801855-002	Al (394.401 nm)	0.2721 (ppm)	1.44	0.2721 (ppm)	2846.4703
3/15/2018 10:38:59	R1801855-002	As (188.980 nm)	0.0080 (ppm)	19.88	0.0080 (ppm)	2.0151
3/15/2018 10:38:59	R1801855-002	B (249.772 nm)	0.0764 (ppm)	0.69	0.0764 (ppm)	2038.6128
3/15/2018 10:38:59	R1801855-002	Ba (230.424 nm)	0.3008 (ppm)	3.18	0.3008 (ppm)	8429.7281
3/15/2018 10:38:59	R1801855-002	Be (313.107 nm)	0.0000 (ppm)	28.40	0.0000 (ppm)	-527.6528
3/15/2018 10:38:59	R1801855-002	Ce (227.547 nm)	448.5565 o (ppm)	0.47	448.5565 (ppm)	19811.2883
3/15/2018 10:38:59	R1801855-002	Cd (214.439 nm)	0.0129 (ppm)	0.70	0.0129 (ppm)	273.6274
3/15/2018 10:38:59	R1801855-002	Co (230.786 nm)	0.0024 (ppm)	10.95	0.0024 (ppm)	15.8433
3/15/2018 10:38:59	R1801855-002	Cr (267.716 nm)	0.0004 (ppm)	32.19	0.0004 (ppm)	16.4932
3/15/2018 10:38:59	R1801855-002	Cu (327.395 nm)	0.0652 (ppm)	0.38	0.0652 (ppm)	3079.2727
3/15/2018 10:38:59	R1801855-002	Fe (234.350 nm)	0.1527 (ppm)	0.62	0.1527 (ppm)	1455.6156
3/15/2018 10:38:59	R1801855-002	K (766.491 nm)	4.3896 (ppm)	0.13	4.3896 (ppm)	9572.6627
3/15/2018 10:38:59	R1801855-002	Mg (279.078 nm)	15.0687 (ppm)	0.73	15.0687 (ppm)	26653.6689
3/15/2018 10:38:59	R1801855-002	Mn (257.610 nm)	0.7950 (ppm)	0.59	0.7950 (ppm)	207408.3667
3/15/2018 10:38:59	R1801855-002	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.0717
3/15/2018 10:38:59	R1801855-002	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	###
3/15/2018 10:38:59	R1801855-002	Ni (230.299 nm)	0.0122 (ppm)	15.72	0.0122 (ppm)	55.2427
3/15/2018 10:38:59	R1801855-002	Pb (220.353 nm)	0.0607 (ppm)	0.92	0.0607 (ppm)	123.7784
3/15/2018 10:38:59	R1801855-002	Sb (217.582 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	3.5675
3/15/2018 10:38:59	R1801855-002	Se (196.026 nm)	-0.0044 u (ppm)	69.61	-0.0044 (ppm)	-5.7529
3/15/2018 10:38:59	R1801855-002	Sn (189.925 nm)	0.0011 (ppm)	68.28	0.0011 (ppm)	-0.6203
3/15/2018 10:38:59	R1801855-002	Sr (216.596 nm)	0.9917 (ppm)	3.01	0.9917 (ppm)	12262.0035
3/15/2018 10:38:59	R1801855-002	Ti (336.122 nm)	0.0120 (ppm)	3.88	0.0120 (ppm)	1315.7851
3/15/2018 10:38:59	R1801855-002	Tl (351.923 nm)	0.0130 (ppm)	36.41	0.0130 (ppm)	36.2522
3/15/2018 10:38:59	R1801855-002	V (292.401 nm)	0.0017 (ppm)	8.82	0.0017 (ppm)	181.7557
3/15/2018 10:38:59	R1801855-002	Y (360.074 nm)	0.90 (Ratio)	1.94	0.90 (Ratio)	631394.05
3/15/2018 10:38:59	R1801855-002	Y_R (360.074 nm)	0.90 (Ratio)	1.93	0.90 (Ratio)	631916.06
3/15/2018 10:38:59	R1801855-002	Zn (213.857 nm)	5.0334 o (ppm)	1.28	5.0334 (ppm)	136598.4075
3/15/2018 10:42:18	R1801855-003	Ag (328.068 nm)	-0.0003 u (ppm)	18.71	-0.0003 (ppm)	-114.0181
3/15/2018 10:42:18	R1801855-003	Al (394.401 nm)	0.1111 (ppm)	1.72	0.1111 (ppm)	1249.6831
3/15/2018 10:42:18	R1801855-003	As (188.980 nm)	0.0239 (ppm)	8.83	0.0239 (ppm)	15.2222
3/15/2018 10:42:18	R1801855-003	B (249.772 nm)	0.1386 (ppm)	0.15	0.1386 (ppm)	3591.8312
3/15/2018 10:42:18	R1801855-003	Ba (230.424 nm)	0.6515 (ppm)	0.09	0.6515 (ppm)	18247.5302
3/15/2018 10:42:18	R1801855-003	Be (313.107 nm)	0.0002 (ppm)	3.74	0.0002 (ppm)	-326.3648
3/15/2018 10:42:18	R1801855-003	Ce (227.547 nm)	430.6079 o (ppm)	0.16	430.6079 (ppm)	19018.7364
3/15/2018 10:42:18	R1801855-003	Cd (214.439 nm)	0.0061 (ppm)	1.61	0.0061 (ppm)	137.3013
3/15/2018 10:42:18	R1801855-003	Co (230.786 nm)	0.0208 (ppm)	3.44	0.0208 (ppm)	178.8989
3/15/2018 10:42:18	R1801855-003	Cr (267.716 nm)	-0.0018 u (ppm)	11.03	-0.0018 (ppm)	-70.6436
3/15/2018 10:42:18	R1801855-003	Cu (327.395 nm)	0.0124 (ppm)	1.02	0.0124 (ppm)	597.3783
3/15/2018 10:42:18	R1801855-003	Fe (234.350 nm)	0.5335 (ppm)	0.35	0.5335 (ppm)	5040.5406
3/15/2018 10:42:18	R1801855-003	K (766.491 nm)	11.6661 (ppm)	0.20	11.6661 (ppm)	25458.1910
3/15/2018 10:42:18	R1801855-003	Mg (279.078 nm)	8.7663 (ppm)	0.33	8.7663 (ppm)	15503.3938

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:42:18	R1801855-003	Mn (257.610 nm)	6.2014 u (ppm)	0.33	6.2014 (ppm)	1617832.5133
3/15/2018 10:42:18	R1801855-003	Mo (202.032 nm)	0.0006 (ppm)	60.60	0.0006 (ppm)	10.7053
3/15/2018 10:42:18	R1801855-003	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 10:42:18	R1801855-003	Ni (230.299 nm)	0.0150 (ppm)	7.19	0.0150 (ppm)	72.4447
3/15/2018 10:42:18	R1801855-003	Pb (220.353 nm)	0.7198 (ppm)	0.71	0.7198 (ppm)	1406.6576
3/15/2018 10:42:18	R1801855-003	Sb (217.582 nm)	0.0055 (ppm)	26.04	0.0055 (ppm)	9.1643
3/15/2018 10:42:18	R1801855-003	Se (196.026 nm)	0.0018 (ppm)	59.83	0.0018 (ppm)	-0.6160
3/15/2018 10:42:18	R1801855-003	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.9552
3/15/2018 10:42:18	R1801855-003	Sr (216.596 nm)	0.7156 (ppm)	1.12	0.7156 (ppm)	8848.3669
3/15/2018 10:42:18	R1801855-003	Ti (336.122 nm)	0.0038 (ppm)	5.69	0.0038 (ppm)	-5.8989
3/15/2018 10:42:18	R1801855-003	Ti (351.923 nm)	0.0137 (ppm)	29.37	0.0137 (ppm)	37.8189
3/15/2018 10:42:18	R1801855-003	V (292.401 nm)	0.0018 (ppm)	7.48	0.0018 (ppm)	184.1137
3/15/2018 10:42:18	R1801855-003	Y (360.074 nm)	0.92 (Ratio)	1.10	0.92 (Ratio)	649389.69
3/15/2018 10:42:18	R1801855-003	Y_R (360.074 nm)	0.92 (Ratio)	1.10	0.92 (Ratio)	649864.56
3/15/2018 10:42:18	R1801855-003	Zn (213.857 nm)	2.0219 (ppm)	0.17	2.0219 (ppm)	54861.6227
3/15/2018 10:45:37	Continuing Calibration Verification	Ag (328.068 nm)	0.4837 (ppm)	0.25	0.4837 (ppm)	28024.3571
3/15/2018 10:45:37	Continuing Calibration Verification	Al (394.401 nm)	9.7578 (ppm)	0.24	9.7578 (ppm)	96914.0577
3/15/2018 10:45:37	Continuing Calibration Verification	As (188.980 nm)	0.9818 (ppm)	1.76	0.9818 (ppm)	812.2230
3/15/2018 10:45:37	Continuing Calibration Verification	B (249.772 nm)	2.4524 (ppm)	0.14	2.4524 (ppm)	61405.7875
3/15/2018 10:45:37	Continuing Calibration Verification	Ba (230.424 nm)	10.2370 (ppm)	0.57	10.2370 (ppm)	286638.1662
3/15/2018 10:45:37	Continuing Calibration Verification	Be (313.107 nm)	0.2531 (ppm)	0.22	0.2531 (ppm)	312913.9726
3/15/2018 10:45:37	Continuing Calibration Verification	Ca (227.547 nm)	24.4372 (ppm)	0.36	24.4372 (ppm)	1083.5702
3/15/2018 10:45:37	Continuing Calibration Verification	Cd (214.439 nm)	0.5019 (ppm)	0.29	0.5019 (ppm)	10048.9579
3/15/2018 10:45:37	Continuing Calibration Verification	Co (230.786 nm)	2.5633 (ppm)	0.32	2.5633 (ppm)	22666.9699
3/15/2018 10:45:37	Continuing Calibration Verification	Cr (267.716 nm)	0.5247 (ppm)	0.34	0.5247 (ppm)	20939.2860
3/15/2018 10:45:37	Continuing Calibration Verification	Cu (327.395 nm)	1.2281 (ppm)	0.19	1.2281 (ppm)	57765.6247
3/15/2018 10:45:37	Continuing Calibration Verification	Fe (234.350 nm)	4.9980 (ppm)	0.31	4.9980 (ppm)	47077.4798
3/15/2018 10:45:37	Continuing Calibration Verification	K (766.491 nm)	25.1471 (ppm)	0.89	25.1471 (ppm)	54888.9967
3/15/2018 10:45:37	Continuing Calibration Verification	Mg (279.078 nm)	24.7575 (ppm)	0.35	24.7575 (ppm)	43785.3024
3/15/2018 10:45:37	Continuing Calibration Verification	Mn (257.610 nm)	0.7704 (ppm)	0.21	0.7704 (ppm)	201006.4314
3/15/2018 10:45:37	Continuing Calibration Verification	Mo (202.032 nm)	2.4883 (ppm)	0.16	2.4883 (ppm)	20998.4431
3/15/2018 10:45:37	Continuing Calibration Verification	Na (588.995 nm)	25.4054 (ppm)	0.26	25.4054 (ppm)	781733.4222
3/15/2018 10:45:37	Continuing Calibration Verification	Ni (230.299 nm)	2.0499 (ppm)	0.22	2.0499 (ppm)	12423.4275
3/15/2018 10:45:37	Continuing Calibration Verification	Pb (220.353 nm)	0.5034 (ppm)	0.43	0.5034 (ppm)	985.4529
3/15/2018 10:45:37	Continuing Calibration Verification	Sb (217.582 nm)	5.0880 (ppm)	0.45	5.0880 (ppm)	6181.5784
3/15/2018 10:45:37	Continuing Calibration Verification	Se (196.026 nm)	0.5081 (ppm)	0.81	0.5081 (ppm)	421.5448
3/15/2018 10:45:37	Continuing Calibration Verification	Sn (189.925 nm)	4.9658 (ppm)	0.34	4.9658 (ppm)	5484.3707
3/15/2018 10:45:37	Continuing Calibration Verification	Sr (216.596 nm)	2.5084 (ppm)	0.39	2.5084 (ppm)	31020.6858
3/15/2018 10:45:37	Continuing Calibration Verification	Ti (336.122 nm)	2.4971 (ppm)	0.24	2.4971 (ppm)	404947.1657
3/15/2018 10:45:37	Continuing Calibration Verification	Ti (351.923 nm)	1.0238 (ppm)	0.29	1.0238 (ppm)	2211.8360
3/15/2018 10:45:37	Continuing Calibration Verification	V (292.401 nm)	2.5241 (ppm)	0.25	2.5241 (ppm)	73573.1519
3/15/2018 10:45:37	Continuing Calibration Verification	Y (360.074 nm)	1.04 (Ratio)	0.74	1.04 (Ratio)	730700.04
3/15/2018 10:45:37	Continuing Calibration Verification	Y_R (360.074 nm)	1.04 (Ratio)	0.74	1.04 (Ratio)	730611.92
3/15/2018 10:45:37	Continuing Calibration Verification	Zn (213.857 nm)	0.9625 (ppm)	0.34	0.9625 (ppm)	26108.5790
3/15/2018 10:48:57	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	34.07	-0.0002 (ppm)	-108.0176
3/15/2018 10:48:57	Continuing Calibration Blank	Al (394.401 nm)	-0.0028 u (ppm)	23.76	-0.0028 (ppm)	120.7930
3/15/2018 10:48:57	Continuing Calibration Blank	As (188.980 nm)	0.0033 (ppm)	65.68	0.0033 (ppm)	-1.9120
3/15/2018 10:48:57	Continuing Calibration Blank	B (249.772 nm)	-0.0007 u (ppm)	35.47	-0.0007 (ppm)	113.3857
3/15/2018 10:48:57	Continuing Calibration Blank	Ba (230.424 nm)	0.0009 (ppm)	7.67	0.0009 (ppm)	31.4828
3/15/2018 10:48:57	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	3.13	0.0001 (ppm)	-497.1398
3/15/2018 10:48:57	Continuing Calibration Blank	Ca (227.547 nm)	0.0264 (ppm)	42.75	0.0264 (ppm)	5.6674

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:48:57	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	18.2765
3/15/2018 10:48:57	Continuing Calibration Blank	Co (230.786 nm)	0.0004 (ppm)	69.11	0.0004 (ppm)	-1.8557
3/15/2018 10:48:57	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.8289
3/15/2018 10:48:57	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.9664
3/15/2018 10:48:57	Continuing Calibration Blank	Fe (234.350 nm)	0.0011 (ppm)	9.86	0.0011 (ppm)	27.4549
3/15/2018 10:48:57	Continuing Calibration Blank	K (766.491 nm)	0.0197 (ppm)	3.71	0.0197 (ppm)	32.7763
3/15/2018 10:48:57	Continuing Calibration Blank	Mg (279.078 nm)	0.0024 (ppm)	93.40	0.0024 (ppm)	-1.9860
3/15/2018 10:48:57	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	4.52	0.0001 (ppm)	39.0121
3/15/2018 10:48:57	Continuing Calibration Blank	Mo (202.032 nm)	0.0015 (ppm)	4.15	0.0015 (ppm)	18.7123
3/15/2018 10:48:57	Continuing Calibration Blank	Na (588.995 nm)	0.0669 (ppm)	3.94	0.0669 (ppm)	-6873.5517
3/15/2018 10:48:57	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-18.6692
3/15/2018 10:48:57	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u (ppm)	63.09	-0.0006 (ppm)	4.3764
3/15/2018 10:48:57	Continuing Calibration Blank	Sb (217.582 nm)	0.0021 (ppm)	88.82	0.0021 (ppm)	5.0645
3/15/2018 10:48:57	Continuing Calibration Blank	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.6443
3/15/2018 10:48:57	Continuing Calibration Blank	Sn (189.925 nm)	0.0023 (ppm)	58.69	0.0023 (ppm)	0.6892
3/15/2018 10:48:57	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	62.97	0.0002 (ppm)	0.1056
3/15/2018 10:48:57	Continuing Calibration Blank	Ti (336.122 nm)	0.0010 (ppm)	8.15	0.0010 (ppm)	-459.2385
3/15/2018 10:48:57	Continuing Calibration Blank	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	9.9478
3/15/2018 10:48:57	Continuing Calibration Blank	V (292.401 nm)	0.0002 (ppm)	33.47	0.0002 (ppm)	138.9810
3/15/2018 10:48:57	Continuing Calibration Blank	Y (360.074 nm)	1.07 (Ratio)	0.31	1.07 (Ratio)	750916.67
3/15/2018 10:48:57	Continuing Calibration Blank	Y_R (360.074 nm)	1.07 (Ratio)	0.31	1.07 (Ratio)	750598.25
3/15/2018 10:48:57	Continuing Calibration Blank	Zn (213.857 nm)	-0.0004 u (ppm)	16.50	-0.0004 (ppm)	-23.7994
3/15/2018 10:52:15	PBW-309726	Ag (328.068 nm)	-0.0002 u (ppm)	40.03	-0.0002 (ppm)	-108.5409
3/15/2018 10:52:15	PBW-309726	Al (394.401 nm)	-0.0021 u (ppm)	11.96	-0.0021 (ppm)	127.7165
3/15/2018 10:52:15	PBW-309726	As (188.980 nm)	0.0019 (ppm)	49.35	0.0019 (ppm)	-3.0560
3/15/2018 10:52:15	PBW-309726	B (249.772 nm)	-0.0017 u (ppm)	3.88	-0.0017 (ppm)	88.6200
3/15/2018 10:52:15	PBW-309726	Ba (230.424 nm)	0.0001 (ppm)	63.37	0.0001 (ppm)	8.6472
3/15/2018 10:52:15	PBW-309726	Be (313.107 nm)	0.0000 (ppm)	39.96	0.0000 (ppm)	-541.9600
3/15/2018 10:52:15	PBW-309726	Ca (227.547 nm)	-0.0493 u (ppm)	60.38	-0.0493 (ppm)	2.3240
3/15/2018 10:52:15	PBW-309726	Cd (214.439 nm)	-0.0004 u (ppm)	5.25	-0.0004 (ppm)	7.4655
3/15/2018 10:52:15	PBW-309726	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.3369
3/15/2018 10:52:15	PBW-309726	Cr (267.716 nm)	-0.0002 u (ppm)	99.22	-0.0002 (ppm)	-7.7317
3/15/2018 10:52:15	PBW-309726	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.8730
3/15/2018 10:52:15	PBW-309726	Fe (234.350 nm)	0.0007 (ppm)	23.68	0.0007 (ppm)	24.0939
3/15/2018 10:52:15	PBW-309726	K (766.491 nm)	0.0161 (ppm)	14.32	0.0161 (ppm)	24.7460
3/15/2018 10:52:15	PBW-309726	Mg (279.078 nm)	0.0028 (ppm)	51.68	0.0028 (ppm)	-1.2107
3/15/2018 10:52:15	PBW-309726	Mn (257.610 nm)	0.0001 (ppm)	4.71	0.0001 (ppm)	52.1301
3/15/2018 10:52:15	PBW-309726	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.4137
3/15/2018 10:52:15	PBW-309726	Na (588.995 nm)	0.0879 (ppm)	6.11	0.0879 (ppm)	-6220.6021
3/15/2018 10:52:15	PBW-309726	Ni (230.299 nm)	0.0014 (ppm)	1.54	0.0014 (ppm)	-9.8604
3/15/2018 10:52:15	PBW-309726	Pb (220.353 nm)	-0.0008 u (ppm)	25.16	-0.0008 (ppm)	3.9739
3/15/2018 10:52:15	PBW-309726	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	1.2124
3/15/2018 10:52:15	PBW-309726	Se (196.026 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	-0.9762
3/15/2018 10:52:15	PBW-309726	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-0.3652
3/15/2018 10:52:15	PBW-309726	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.0376
3/15/2018 10:52:15	PBW-309726	Ti (336.122 nm)	0.0021 (ppm)	5.36	0.0021 (ppm)	-290.4310
3/15/2018 10:52:15	PBW-309726	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	9.2272
3/15/2018 10:52:15	PBW-309726	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	129.1383
3/15/2018 10:52:15	PBW-309726	Y (360.074 nm)	1.08 (Ratio)	1.26	1.08 (Ratio)	763814.93
3/15/2018 10:52:15	PBW-309726	Y_R (360.074 nm)	1.09 (Ratio)	1.26	1.09 (Ratio)	763585.33
3/15/2018 10:52:15	PBW-309726	Zn (213.857 nm)	0.0010 (ppm)	5.63	0.0010 (ppm)	12.0351

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:55:34	LCSW-309726	Ag (328.068 nm)	0.0513 (ppm)	1.32	0.0513 (ppm)	2884.7696
3/15/2018 10:55:34	LCSW-309726	Al (394.401 nm)	1.9437 (ppm)	1.47	1.9437 (ppm)	19423.2709
3/15/2018 10:55:34	LCSW-309726	As (188.980 nm)	0.0425 (ppm)	7.66	0.0425 (ppm)	30.6783
3/15/2018 10:55:34	LCSW-309726	B (249.772 nm)	1.0226 (ppm)	1.60	1.0226 (ppm)	25679.5834
3/15/2018 10:55:34	LCSW-309726	Ba (230.424 nm)	2.1164 (ppm)	1.60	2.1164 (ppm)	59265.1246
3/15/2018 10:55:34	LCSW-309726	Be (313.107 nm)	0.0511 (ppm)	1.54	0.0511 (ppm)	62731.9281
3/15/2018 10:55:34	LCSW-309726	Ca (227.547 nm)	1.8605 (ppm)	4.25	1.8605 (ppm)	86.6560
3/15/2018 10:55:34	LCSW-309726	Cd (214.439 nm)	0.0533 (ppm)	1.69	0.0533 (ppm)	1080.8109
3/15/2018 10:55:34	LCSW-309726	Co (230.786 nm)	0.5295 (ppm)	1.63	0.5295 (ppm)	4678.1913
3/15/2018 10:55:34	LCSW-309726	C <sub>r</sub> (267.716 nm)	0.2111 (ppm)	1.43	0.2111 (ppm)	8426.5527
3/15/2018 10:55:34	LCSW-309726	Cu (327.395 nm)	0.2511 (ppm)	2.23	0.2511 (ppm)	11824.7342
3/15/2018 10:55:34	LCSW-309726	Fe (234.350 nm)	1.0440 (ppm)	1.60	1.0440 (ppm)	9847.2047
3/15/2018 10:55:34	LCSW-309726	K (766.491 nm)	20.3342 (ppm)	1.53	20.3342 (ppm)	44381.8222
3/15/2018 10:55:34	LCSW-309726	Mg (279.078 nm)	2.0225 (ppm)	1.67	2.0225 (ppm)	3572.0476
3/15/2018 10:55:34	LCSW-309726	Mn (257.610 nm)	0.5192 (ppm)	1.54	0.5192 (ppm)	135467.9253
3/15/2018 10:55:34	LCSW-309726	Mo (202.032 nm)	0.4951 (ppm)	1.40	0.4951 (ppm)	4182.9738
3/15/2018 10:55:34	LCSW-309726	Na (588.995 nm)	20.5534 (ppm)	1.66	20.5534 (ppm)	630722.5951
3/15/2018 10:55:34	LCSW-309726	Ni (230.299 nm)	0.5205 (ppm)	1.64	0.5205 (ppm)	3140.5624
3/15/2018 10:55:34	LCSW-309726	Pb (220.353 nm)	0.5273 (ppm)	1.70	0.5273 (ppm)	1031.9373
3/15/2018 10:55:34	LCSW-309726	Sb (217.582 nm)	0.4971 (ppm)	1.89	0.4971 (ppm)	606.2284
3/15/2018 10:55:34	LCSW-309726	Se (196.026 nm)	1.2702 (ppm)	1.67	1.2702 (ppm)	1056.9833
3/15/2018 10:55:34	LCSW-309726	Sn (189.925 nm)	5.0183 (ppm)	1.63	5.0183 (ppm)	5542.2986
3/15/2018 10:55:34	LCSW-309726	Sr (216.596 nm)	0.0009 (ppm)	51.23	0.0009 (ppm)	8.7132
3/15/2018 10:55:34	LCSW-309726	Ti (336.122 nm)	0.4991 (ppm)	1.59	0.4991 (ppm)	80435.6998
3/15/2018 10:55:34	LCSW-309726	Tl (351.923 nm)	1.9815 (ppm)	1.56	1.9815 (ppm)	4272.9178
3/15/2018 10:55:34	LCSW-309726	V (292.401 nm)	0.5028 (ppm)	1.51	0.5028 (ppm)	14761.0147
3/15/2018 10:55:34	LCSW-309726	Y (360.074 nm)	1.07 (Ratio)	1.69	1.07 (Ratio)	750941.73
3/15/2018 10:55:34	LCSW-309726	Y_R (360.074 nm)	1.07 (Ratio)	1.69	1.07 (Ratio)	750849.74
3/15/2018 10:55:34	LCSW-309726	Zn (213.857 nm)	0.5156 (ppm)	1.08	0.5156 (ppm)	13980.8658
3/15/2018 10:58:53	R1802050-002	Ag (328.068 nm)	0.0044 (ppm)	4.22	0.0044 (ppm)	160.9353
3/15/2018 10:58:53	R1802050-002	Al (394.401 nm)	0.0638 (ppm)	1.89	0.0638 (ppm)	781.0809
3/15/2018 10:58:53	R1802050-002	As (188.980 nm)	0.0026 (ppm)	> 100.00	0.0026 (ppm)	-2.5220
3/15/2018 10:58:53	R1802050-002	B (249.772 nm)	0.1098 (ppm)	0.84	0.1098 (ppm)	2872.7423
3/15/2018 10:58:53	R1802050-002	Ba (230.424 nm)	0.1080 (ppm)	0.66	0.1080 (ppm)	3031.2763
3/15/2018 10:58:53	R1802050-002	Be (313.107 nm)	0.0000 (ppm)	62.75	0.0000 (ppm)	-546.1906
3/15/2018 10:58:53	R1802050-002	Ca (227.547 nm)	55.5827 (ppm)	0.70	55.5827 (ppm)	2458.8509
3/15/2018 10:58:53	R1802050-002	Cd (214.439 nm)	-0.0004 (ppm)	28.54	-0.0004 (ppm)	7.5278
3/15/2018 10:58:53	R1802050-002	Co (230.786 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	-0.3361
3/15/2018 10:58:53	R1802050-002	C <sub>r</sub> (267.716 nm)	0.0109 (ppm)	0.51	0.0109 (ppm)	434.8649
3/15/2018 10:58:53	R1802050-002	Cu (327.395 nm)	0.0045 (ppm)	6.70	0.0045 (ppm)	225.5487
3/15/2018 10:58:53	R1802050-002	Fe (234.350 nm)	0.1020 (ppm)	1.98	0.1020 (ppm)	977.7172
3/15/2018 10:58:53	R1802050-002	K (766.491 nm)	8.4113 (ppm)	0.77	8.4113 (ppm)	18352.6807
3/15/2018 10:58:53	R1802050-002	Mg (279.078 nm)	12.8852 (ppm)	1.04	12.8852 (ppm)	22790.5117
3/15/2018 10:58:53	R1802050-002	Mn (257.610 nm)	0.0311 (ppm)	1.09	0.0311 (ppm)	8139.1008
3/15/2018 10:58:53	R1802050-002	Mo (202.032 nm)	0.0104 (ppm)	6.88	0.0104 (ppm)	93.2770
3/15/2018 10:58:53	R1802050-002	Na (588.995 nm)	287.9592 (ppm)	0.74	287.9592 (ppm)	8953158.3743
3/15/2018 10:58:53	R1802050-002	Ni (230.299 nm)	0.0077 (ppm)	13.65	0.0077 (ppm)	28.4961
3/15/2018 10:58:53	R1802050-002	Pb (220.353 nm)	-0.0006 (ppm)	> 100.00	-0.0006 (ppm)	4.4631
3/15/2018 10:58:53	R1802050-002	Sb (217.582 nm)	0.0114 (ppm)	26.93	0.0114 (ppm)	16.3276
3/15/2018 10:58:53	R1802050-002	Se (196.026 nm)	0.0038 (ppm)	72.37	0.0038 (ppm)	1.0679
3/15/2018 10:58:53	R1802050-002	Sn (189.925 nm)	0.0149 (ppm)	22.23	0.0149 (ppm)	14.6220

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 10:58:53	R1802050-002	Sr (216.596 nm)	0.2763 (ppm)	0.69	0.2763 (ppm)	3414.6193
3/15/2018 10:58:53	R1802050-002	Ti (336.122 nm)	0.0036 (ppm)	4.30	0.0036 (ppm)	-34.3693
3/15/2018 10:58:53	R1802050-002	Ti (351.923 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	12.3871
3/15/2018 10:58:53	R1802050-002	V (292.401 nm)	0.0011 (ppm)	13.26	0.0011 (ppm)	163.4203
3/15/2018 10:58:53	R1802050-002	Y (360.074 nm)	1.01 (Ratio)	1.77	1.01 (Ratio)	711599.54
3/15/2018 10:58:53	R1802050-002	Y_R (360.074 nm)	1.01 (Ratio)	1.78	1.01 (Ratio)	711777.96
3/15/2018 10:58:53	R1802050-002	Zn (213.857 nm)	0.0248 (ppm)	0.72	0.0248 (ppm)	658.5711
3/15/2018 11:02:12	R1802050-003	Ag (328.068 nm)	0.0523 (ppm)	2.60	0.0523 (ppm)	2944.8082
3/15/2018 11:02:12	R1802050-003	Al (394.401 nm)	0.2164 (ppm)	3.15	0.2164 (ppm)	2294.2042
3/15/2018 11:02:12	R1802050-003	As (188.980 nm)	0.0047 (ppm)	30.98	0.0047 (ppm)	-0.7434
3/15/2018 11:02:12	R1802050-003	B (249.772 nm)	0.1162 (ppm)	3.02	0.1162 (ppm)	3034.1487
3/15/2018 11:02:12	R1802050-003	Ba (230.424 nm)	0.1697 (ppm)	2.10	0.1697 (ppm)	4756.7094
3/15/2018 11:02:12	R1802050-003	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-566.9132
3/15/2018 11:02:12	R1802050-003	Ca (227.547 nm)	54.5981 u (ppm)	3.13	54.5981 (ppm)	2415.3765
3/15/2018 11:02:12	R1802050-003	Cd (214.439 nm)	-0.0003 u (ppm)	58.75	-0.0003 (ppm)	8.2636
3/15/2018 11:02:12	R1802050-003	Co (230.786 nm)	0.0020 (ppm)	18.82	0.0020 (ppm)	12.4157
3/15/2018 11:02:12	R1802050-003	Cr (267.716 nm)	0.0319 (ppm)	3.31	0.0319 (ppm)	1274.6201
3/15/2018 11:02:12	R1802050-003	Cu (327.395 nm)	0.0129 (ppm)	2.27	0.0129 (ppm)	621.1519
3/15/2018 11:02:12	R1802050-003	Fe (234.350 nm)	0.5184 (ppm)	3.38	0.5184 (ppm)	4898.3511
3/15/2018 11:02:12	R1802050-003	K (766.491 nm)	9.8451 (ppm)	2.85	9.8451 (ppm)	21482.6844
3/15/2018 11:02:12	R1802050-003	Mg (279.078 nm)	12.8206 (ppm)	2.95	12.8206 (ppm)	22676.3036
3/15/2018 11:02:12	R1802050-003	Mn (257.610 nm)	0.0362 (ppm)	2.81	0.0362 (ppm)	9455.1949
3/15/2018 11:02:12	R1802050-003	Mo (202.032 nm)	0.0113 (ppm)	2.53	0.0113 (ppm)	101.6896
3/15/2018 11:02:12	R1802050-003	Na (588.995 nm)	298.6486 u (ppm)	2.96	298.6486 (ppm)	9285842.8681
3/15/2018 11:02:12	R1802050-003	Ni (230.299 nm)	0.0119 (ppm)	6.88	0.0119 (ppm)	53.7847
3/15/2018 11:02:12	R1802050-003	Pb (220.353 nm)	-0.0015 u (ppm)	83.80	-0.0015 (ppm)	2.6852
3/15/2018 11:02:12	R1802050-003	Sb (217.582 nm)	0.0106 (ppm)	17.00	0.0106 (ppm)	15.2985
3/15/2018 11:02:12	R1802050-003	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-2.4232
3/15/2018 11:02:12	R1802050-003	Sn (189.925 nm)	0.0043 (ppm)	70.78	0.0043 (ppm)	2.9311
3/15/2018 11:02:12	R1802050-003	Sr (216.596 nm)	0.2747 (ppm)	2.94	0.2747 (ppm)	3394.3912
3/15/2018 11:02:12	R1802050-003	Ti (336.122 nm)	0.0078 (ppm)	5.17	0.0078 (ppm)	636.0969
3/15/2018 11:02:12	R1802050-003	Ti (351.923 nm)	0.0019 (ppm)	32.95	0.0019 (ppm)	12.4631
3/15/2018 11:02:12	R1802050-003	V (292.401 nm)	0.0011 (ppm)	14.07	0.0011 (ppm)	164.5525
3/15/2018 11:02:12	R1802050-003	Y (360.074 nm)	1.00 (Ratio)	3.15	1.00 (Ratio)	706234.29
3/15/2018 11:02:12	R1802050-003	Y_R (360.074 nm)	1.01 (Ratio)	3.15	1.01 (Ratio)	706411.33
3/15/2018 11:02:12	R1802050-003	Zn (213.857 nm)	0.0390 (ppm)	3.14	0.0390 (ppm)	1044.8588
3/15/2018 11:05:31	R1802050-004	Ag (328.068 nm)	-0.0002 u (ppm)	8.71	-0.0002 (ppm)	-109.0530
3/15/2018 11:05:31	R1802050-004	Al (394.401 nm)	0.0009 (ppm)	49.58	0.0009 (ppm)	156.9598
3/15/2018 11:05:31	R1802050-004	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-3.4021
3/15/2018 11:05:31	R1802050-004	B (249.772 nm)	0.0072 (ppm)	2.00	0.0072 (ppm)	310.4626
3/15/2018 11:05:31	R1802050-004	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.0731
3/15/2018 11:05:31	R1802050-004	Be (313.107 nm)	0.0000 (ppm)	34.78	0.0000 (ppm)	-551.9141
3/15/2018 11:05:31	R1802050-004	Ca (227.547 nm)	-0.0066 u (ppm)	> 100.00	-0.0066 (ppm)	4.2121
3/15/2018 11:05:31	R1802050-004	Cd (214.439 nm)	-0.0004 u (ppm)	21.30	-0.0004 (ppm)	6.8150
3/15/2018 11:05:31	R1802050-004	Co (230.786 nm)	0.0002 (ppm)	70.39	0.0002 (ppm)	-3.2067
3/15/2018 11:05:31	R1802050-004	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	1.9865
3/15/2018 11:05:31	R1802050-004	Cu (327.395 nm)	0.0003 (ppm)	28.68	0.0003 (ppm)	30.4177
3/15/2018 11:05:31	R1802050-004	Fe (234.350 nm)	-0.0002 u (ppm)	58.80	-0.0002 (ppm)	15.5137
3/15/2018 11:05:31	R1802050-004	K (766.491 nm)	0.0118 (ppm)	16.98	0.0118 (ppm)	15.4174
3/15/2018 11:05:31	R1802050-004	Mg (279.078 nm)	0.0049 (ppm)	10.03	0.0049 (ppm)	2.4111
3/15/2018 11:05:31	R1802050-004	Mn (257.610 nm)	0.0002 (ppm)	5.01	0.0002 (ppm)	73.7130



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:05:31	R1802050-004	Mo (202.032 nm)	0.0002 (ppm)	40.44	0.0002 (ppm)	7.4710
3/15/2018 11:05:31	R1802050-004	Na (588.995 nm)	0.2010 (ppm)	4.40	0.2010 (ppm)	-2701.7380
3/15/2018 11:05:31	R1802050-004	Ni (230.299 nm)	0.0010 (ppm)	34.22	0.0010 (ppm)	-12.2045
3/15/2018 11:05:31	R1802050-004	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	4.6085
3/15/2018 11:05:31	R1802050-004	Sb (217.582 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	0.5787
3/15/2018 11:05:31	R1802050-004	Se (196.026 nm)	-0.0012 u (ppm)	65.54	-0.0012 (ppm)	-3.1382
3/15/2018 11:05:31	R1802050-004	Sn (189.925 nm)	0.0020 (ppm)	9.80	0.0020 (ppm)	0.3143
3/15/2018 11:05:31	R1802050-004	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.0345
3/15/2018 11:05:31	R1802050-004	Ti (336.122 nm)	0.0019 (ppm)	4.07	0.0019 (ppm)	-324.2328
3/15/2018 11:05:31	R1802050-004	Ti (351.923 nm)	0.0031 (ppm)	78.62	0.0031 (ppm)	15.0769
3/15/2018 11:05:31	R1802050-004	V (292.401 nm)	-0.0004 u (ppm)	10.06	-0.0004 (ppm)	121.7851
3/15/2018 11:05:31	R1802050-004	Y (360.074 nm)	1.08 (Ratio)	1.27	1.08 (Ratio)	762281.65
3/15/2018 11:05:31	R1802050-004	Y_R (360.074 nm)	1.08 (Ratio)	1.27	1.08 (Ratio)	762118.99
3/15/2018 11:05:31	R1802050-004	Zn (213.857 nm)	0.0012 (ppm)	3.48	0.0012 (ppm)	17.5089
3/15/2018 11:08:50	PBW-309546	Ag (328.068 nm)	-0.0004 u (ppm)	51.07	-0.0004 (ppm)	-115.7956
3/15/2018 11:08:50	PBW-309546	Al (394.401 nm)	0.0013 (ppm)	56.90	0.0013 (ppm)	161.0766
3/15/2018 11:08:50	PBW-309546	As (188.980 nm)	0.0035 (ppm)	49.26	0.0035 (ppm)	-1.7626
3/15/2018 11:08:50	PBW-309546	B (249.772 nm)	-0.0009 u (ppm)	12.95	-0.0009 (ppm)	106.7532
3/15/2018 11:08:50	PBW-309546	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.6527
3/15/2018 11:08:50	PBW-309546	Be (313.107 nm)	0.0000 (ppm)	46.08	0.0000 (ppm)	-552.0776
3/15/2018 11:08:50	PBW-309546	Ca (227.547 nm)	0.0134 u (ppm)	> 100.00	0.0134 (ppm)	5.0928
3/15/2018 11:08:50	PBW-309546	Cd (214.439 nm)	-0.0002 u (ppm)	26.31	-0.0002 (ppm)	11.6714
3/15/2018 11:08:50	PBW-309546	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.3472
3/15/2018 11:08:50	PBW-309546	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.5334
3/15/2018 11:08:50	PBW-309546	Cu (327.395 nm)	0.0001 (ppm)	92.19	0.0001 (ppm)	21.1981
3/15/2018 11:08:50	PBW-309546	Fe (234.350 nm)	0.0041 (ppm)	9.27	0.0041 (ppm)	56.2956
3/15/2018 11:08:50	PBW-309546	K (766.491 nm)	0.1193 (ppm)	1.95	0.1193 (ppm)	250.0579
3/15/2018 11:08:50	PBW-309546	Mg (279.078 nm)	0.0028 (ppm)	59.43	0.0028 (ppm)	-1.2287
3/15/2018 11:08:50	PBW-309546	Mn (257.610 nm)	0.0017 (ppm)	1.68	0.0017 (ppm)	467.4355
3/15/2018 11:08:50	PBW-309546	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.9163
3/15/2018 11:08:50	PBW-309546	Na (588.995 nm)	0.1020 (ppm)	1.83	0.1020 (ppm)	-5781.4222
3/15/2018 11:08:50	PBW-309546	Ni (230.299 nm)	0.0004 (ppm)	93.08	0.0004 (ppm)	-16.3414
3/15/2018 11:08:50	PBW-309546	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.8965
3/15/2018 11:08:50	PBW-309546	Sb (217.582 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	1.8087
3/15/2018 11:08:50	PBW-309546	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-2.7076
3/15/2018 11:08:50	PBW-309546	Sn (189.925 nm)	0.0031 (ppm)	48.93	0.0031 (ppm)	1.5445
3/15/2018 11:08:50	PBW-309546	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.0450
3/15/2018 11:08:50	PBW-309546	Ti (336.122 nm)	0.0010 (ppm)	10.23	0.0010 (ppm)	-465.6996
3/15/2018 11:08:50	PBW-309546	Ti (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	11.8939
3/15/2018 11:08:50	PBW-309546	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	128.6625
3/15/2018 11:08:50	PBW-309546	Y (360.074 nm)	1.08 (Ratio)	1.15	1.08 (Ratio)	763056.97
3/15/2018 11:08:50	PBW-309546	Y_R (360.074 nm)	1.09 (Ratio)	1.15	1.09 (Ratio)	762972.90
3/15/2018 11:08:50	PBW-309546	Zn (213.857 nm)	0.0022 (ppm)	3.88	0.0022 (ppm)	46.5718
3/15/2018 11:12:08	LCSW-309546	Ag (328.068 nm)	0.0488 (ppm)	0.51	0.0488 (ppm)	2743.0607
3/15/2018 11:12:08	LCSW-309546	Al (394.401 nm)	1.8606 (ppm)	0.24	1.8606 (ppm)	18599.6337
3/15/2018 11:12:08	LCSW-309546	As (188.980 nm)	0.0403 (ppm)	5.42	0.0403 (ppm)	28.8790
3/15/2018 11:12:08	LCSW-309546	B (249.772 nm)	0.9633 (ppm)	0.16	0.9633 (ppm)	24199.6849
3/15/2018 11:12:08	LCSW-309546	Ba (230.424 nm)	2.0307 (ppm)	0.41	2.0307 (ppm)	56866.0522
3/15/2018 11:12:08	LCSW-309546	Be (313.107 nm)	0.0493 (ppm)	0.16	0.0493 (ppm)	60466.8693
3/15/2018 11:12:08	LCSW-309546	Ca (227.547 nm)	1.8350 (ppm)	2.12	1.8350 (ppm)	85.5292
3/15/2018 11:12:08	LCSW-309546	Cd (214.439 nm)	0.0501 (ppm)	0.41	0.0501 (ppm)	1015.4752

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:12:08	LCSW-309546	Co (230.786 nm)	0.5077 (ppm)	0.17	0.5077 (ppm)	4485.1971
3/15/2018 11:12:08	LCSW-309546	Cr (267.716 nm)	0.2045 (ppm)	0.11	0.2045 (ppm)	8161.4500
3/15/2018 11:12:08	LCSW-309546	Cu (327.395 nm)	0.2467 (ppm)	0.23	0.2467 (ppm)	11616.5873
3/15/2018 11:12:08	LCSW-309546	Fe (234.350 nm)	0.9891 (ppm)	0.11	0.9891 (ppm)	9330.9601
3/15/2018 11:12:08	LCSW-309546	K (766.491 nm)	19.7151 (ppm)	0.38	19.7151 (ppm)	43030.2291
3/15/2018 11:12:08	LCSW-309546	Mg (279.078 nm)	1.9330 (ppm)	0.17	1.9330 (ppm)	3413.7603
3/15/2018 11:12:08	LCSW-309546	Mn (257.610 nm)	0.4997 (ppm)	0.10	0.4997 (ppm)	130368.6178
3/15/2018 11:12:08	LCSW-309546	Mo (202.032 nm)	0.4826 (ppm)	0.06	0.4826 (ppm)	4077.4636
3/15/2018 11:12:08	LCSW-309546	Na (588.995 nm)	20.0959 (ppm)	0.38	20.0959 (ppm)	616485.4545
3/15/2018 11:12:08	LCSW-309546	Ni (230.299 nm)	0.4932 (ppm)	0.27	0.4932 (ppm)	2975.0541
3/15/2018 11:12:08	LCSW-309546	Pb (220.353 nm)	0.5036 (ppm)	0.40	0.5036 (ppm)	985.7515
3/15/2018 11:12:08	LCSW-309546	Sb (217.582 nm)	0.4666 (ppm)	0.60	0.4666 (ppm)	569.1045
3/15/2018 11:12:08	LCSW-309546	Se (196.026 nm)	1.0533 (ppm)	1.01	1.0533 (ppm)	876.1455
3/15/2018 11:12:08	LCSW-309546	Sn (189.925 nm)	4.8308 (ppm)	0.19	4.8308 (ppm)	5335.2407
3/15/2018 11:12:08	LCSW-309546	Sr (216.596 nm)	1.9728 (ppm)	0.33	1.9728 (ppm)	24396.1721
3/15/2018 11:12:08	LCSW-309546	Ti (336.122 nm)	0.4867 (ppm)	0.11	0.4867 (ppm)	78421.5934
3/15/2018 11:12:08	LCSW-309546	Ti (351.923 nm)	1.8707 (ppm)	0.24	1.8707 (ppm)	4034.3308
3/15/2018 11:12:08	LCSW-309546	V (292.401 nm)	0.4868 (ppm)	0.16	0.4868 (ppm)	14296.7231
3/15/2018 11:12:08	LCSW-309546	Y (360.074 nm)	1.08 (Ratio)	0.52	1.08 (Ratio)	760785.37
3/15/2018 11:12:08	LCSW-309546	Y_R (360.074 nm)	1.08 (Ratio)	0.52	1.08 (Ratio)	760726.80
3/15/2018 11:12:08	LCSW-309546	Zn (213.857 nm)	0.4772 (ppm)	0.29	0.4772 (ppm)	12937.3967
3/15/2018 11:15:27	R1801821-001 10X	Ag (328.068 nm)	-0.0002 u (ppm)	52.63	-0.0002 (ppm)	-108.8110
3/15/2018 11:15:27	R1801821-001 10X	Al (394.401 nm)	0.0415 (ppm)	2.29	0.0415 (ppm)	559.3629
3/15/2018 11:15:27	R1801821-001 10X	As (188.980 nm)	0.0022 (ppm)	56.67	0.0022 (ppm)	-2.8818
3/15/2018 11:15:27	R1801821-001 10X	B (249.772 nm)	0.0166 (ppm)	2.83	0.0166 (ppm)	543.6084
3/15/2018 11:15:27	R1801821-001 10X	Ba (230.424 nm)	0.0091 (ppm)	3.11	0.0091 (ppm)	262.4527
3/15/2018 11:15:27	R1801821-001 10X	Be (313.107 nm)	0.0000 (ppm)	55.61	0.0000 (ppm)	-551.9612
3/15/2018 11:15:27	R1801821-001 10X	Cd (227.547 nm)	24.9513 (ppm)	1.51	24.9513 (ppm)	1106.2704
3/15/2018 11:15:27	R1801821-001 10X	Cd (214.439 nm)	-0.0004 u (ppm)	21.13	-0.0004 (ppm)	6.7585
3/15/2018 11:15:27	R1801821-001 10X	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-2.5589
3/15/2018 11:15:27	R1801821-001 10X	Cr (267.716 nm)	-0.0002 u (ppm)	16.62	-0.0002 (ppm)	-6.3400
3/15/2018 11:15:27	R1801821-001 10X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	21.8631
3/15/2018 11:15:27	R1801821-001 10X	Fe (234.350 nm)	0.2290 (ppm)	1.88	0.2290 (ppm)	2173.5182
3/15/2018 11:15:27	R1801821-001 10X	K (766.491 nm)	0.5870 (ppm)	3.50	0.5870 (ppm)	1271.0942
3/15/2018 11:15:27	R1801821-001 10X	Mg (279.078 nm)	7.7607 (ppm)	1.71	7.7607 (ppm)	13724.1390
3/15/2018 11:15:27	R1801821-001 10X	Mn (257.610 nm)	0.0810 (ppm)	1.73	0.0810 (ppm)	21149.4903
3/15/2018 11:15:27	R1801821-001 10X	Mo (202.032 nm)	0.0004 (ppm)	31.76	0.0004 (ppm)	9.5258
3/15/2018 11:15:27	R1801821-001 10X	Na (588.995 nm)	3.3204 (ppm)	1.78	3.3204 (ppm)	94383.1311
3/15/2018 11:15:27	R1801821-001 10X	Ni (230.299 nm)	0.0012 (ppm)	24.86	0.0012 (ppm)	-11.0092
3/15/2018 11:15:27	R1801821-001 10X	Pb (220.353 nm)	-0.0032 u (ppm)	41.00	-0.0032 (ppm)	-0.6871
3/15/2018 11:15:27	R1801821-001 10X	Sb (217.582 nm)	0.0012 (ppm)	97.97	0.0012 (ppm)	3.9114
3/15/2018 11:15:27	R1801821-001 10X	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-1.3154
3/15/2018 11:15:27	R1801821-001 10X	Sn (189.925 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-0.1779
3/15/2018 11:15:27	R1801821-001 10X	Sr (216.596 nm)	0.5918 (ppm)	2.01	0.5918 (ppm)	7316.3752
3/15/2018 11:15:27	R1801821-001 10X	Ti (336.122 nm)	0.0031 (ppm)	4.63	0.0031 (ppm)	-122.5960
3/15/2018 11:15:27	R1801821-001 10X	Ti (351.923 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	10.5005
3/15/2018 11:15:27	R1801821-001 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	134.2328
3/15/2018 11:15:27	R1801821-001 10X	Y (360.074 nm)	1.07 (Ratio)	1.58	1.07 (Ratio)	755008.90
3/15/2018 11:15:27	R1801821-001 10X	Y_R (360.074 nm)	1.07 (Ratio)	1.58	1.07 (Ratio)	754919.10
3/15/2018 11:15:27	R1801821-001 10X	Zn (213.857 nm)	0.0023 (ppm)	0.50	0.0023 (ppm)	47.4646
3/15/2018 11:18:46	R1801822-001 10X	Ag (328.068 nm)	-0.0002 u (ppm)	56.96	-0.0002 (ppm)	-105.9898

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:18:46	R1801822-001 10X	Al (394.401 nm)	0.0174 (ppm)	4.37	0.0174 (ppm)	321.0523
3/15/2018 11:18:46	R1801822-001 10X	As (188.980 nm)	0.0036 (ppm)	17.37	0.0036 (ppm)	-1.6484
3/15/2018 11:18:46	R1801822-001 10X	B (249.772 nm)	0.0152 (ppm)	1.96	0.0152 (ppm)	508.6884
3/15/2018 11:18:46	R1801822-001 10X	Ba (230.424 nm)	0.0025 (ppm)	3.40	0.0025 (ppm)	75.9768
3/15/2018 11:18:46	R1801822-001 10X	Be (313.107 nm)	0.0000 (ppm)	2.14	0.0000 (ppm)	-558.5918
3/15/2018 11:18:46	R1801822-001 10X	Cs (227.547 nm)	41.0478 (ppm)	1.26	41.0478 (ppm)	1817.0402
3/15/2018 11:18:46	R1801822-001 10X	Cd (214.439 nm)	-0.0004 u (ppm)	23.19	-0.0004 (ppm)	7.5513
3/15/2018 11:18:46	R1801822-001 10X	Co (230.786 nm)	0.0005 (ppm)	86.26	0.0005 (ppm)	-0.5131
3/15/2018 11:18:46	R1801822-001 10X	Cr (267.716 nm)	-0.0004 u (ppm)	26.61	-0.0004 (ppm)	-14.9496
3/15/2018 11:18:46	R1801822-001 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.1957
3/15/2018 11:18:46	R1801822-001 10X	Fe (234.350 nm)	0.0663 (ppm)	1.49	0.0663 (ppm)	641.5648
3/15/2018 11:18:46	R1801822-001 10X	K (766.491 nm)	0.6710 (ppm)	1.41	0.6710 (ppm)	1454.4567
3/15/2018 11:18:46	R1801822-001 10X	Mg (279.078 nm)	22.9413 (ppm)	1.48	22.9413 (ppm)	40581.9397
3/15/2018 11:18:46	R1801822-001 10X	Mn (257.610 nm)	0.0326 (ppm)	1.44	0.0326 (ppm)	8520.2361
3/15/2018 11:18:46	R1801822-001 10X	Mo (202.032 nm)	0.0002 (ppm)	42.43	0.0002 (ppm)	8.0540
3/15/2018 11:18:46	R1801822-001 10X	Na (588.995 nm)	8.2062 (ppm)	1.57	8.2062 (ppm)	246442.3506
3/15/2018 11:18:46	R1801822-001 10X	Ni (230.299 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-13.8234
3/15/2018 11:18:46	R1801822-001 10X	Pb (220.353 nm)	-0.0020 u (ppm)	51.76	-0.0020 (ppm)	1.8180
3/15/2018 11:18:46	R1801822-001 10X	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	2.9614
3/15/2018 11:18:46	R1801822-001 10X	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.3859
3/15/2018 11:18:46	R1801822-001 10X	Sn (189.925 nm)	0.0013 u (ppm)	91.62	0.0013 (ppm)	-0.4472
3/15/2018 11:18:46	R1801822-001 10X	Sr (216.596 nm)	1.9315 (ppm)	1.75	1.9315 (ppm)	23884.9341
3/15/2018 11:18:46	R1801822-001 10X	Ti (336.122 nm)	0.0024 (ppm)	0.30	0.0024 (ppm)	-230.5562
3/15/2018 11:18:46	R1801822-001 10X	Tl (351.923 nm)	0.0027 (ppm)	61.45	0.0027 (ppm)	14.1428
3/15/2018 11:18:46	R1801822-001 10X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	129.0926
3/15/2018 11:18:46	R1801822-001 10X	Y (360.074 nm)	1.06 (Ratio)	1.51	1.06 (Ratio)	745278.17
3/15/2018 11:18:46	R1801822-001 10X	Y_R (360.074 nm)	1.06 (Ratio)	1.51	1.06 (Ratio)	745244.99
3/15/2018 11:18:46	R1801822-001 10X	Zn (213.857 nm)	0.0024 (ppm)	2.51	0.0024 (ppm)	51.8889
3/15/2018 11:22:05	R1801822-011 10X	Ag (328.068 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-108.8296
3/15/2018 11:22:05	R1801822-011 10X	Al (394.401 nm)	0.0564 (ppm)	2.64	0.0564 (ppm)	707.6699
3/15/2018 11:22:05	R1801822-011 10X	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-3.8915
3/15/2018 11:22:05	R1801822-011 10X	B (249.772 nm)	-0.0004 u (ppm)	31.65	-0.0004 (ppm)	118.9311
3/15/2018 11:22:05	R1801822-011 10X	Ba (230.424 nm)	0.0022 (ppm)	1.38	0.0022 (ppm)	67.3980
3/15/2018 11:22:05	R1801822-011 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-561.1802
3/15/2018 11:22:05	R1801822-011 10X	Cs (227.547 nm)	22.4446 (ppm)	1.55	22.4446 (ppm)	995.5829
3/15/2018 11:22:05	R1801822-011 10X	Cd (214.439 nm)	-0.0005 u (ppm)	15.19	-0.0005 (ppm)	4.1775
3/15/2018 11:22:05	R1801822-011 10X	Co (230.786 nm)	-0.0001 u (ppm)	32.76	-0.0001 (ppm)	-6.3427
3/15/2018 11:22:05	R1801822-011 10X	Cr (267.716 nm)	-0.0002 u (ppm)	41.94	-0.0002 (ppm)	-7.5535
3/15/2018 11:22:05	R1801822-011 10X	Cu (327.395 nm)	0.0004 (ppm)	28.53	0.0004 (ppm)	33.9945
3/15/2018 11:22:05	R1801822-011 10X	Fe (234.350 nm)	0.0524 (ppm)	1.60	0.0524 (ppm)	511.1415
3/15/2018 11:22:05	R1801822-011 10X	K (766.491 nm)	0.1994 (ppm)	2.09	0.1994 (ppm)	424.9490
3/15/2018 11:22:05	R1801822-011 10X	Mg (279.078 nm)	7.5358 (ppm)	1.59	7.5358 (ppm)	13326.3670
3/15/2018 11:22:05	R1801822-011 10X	Mn (257.610 nm)	0.0027 (ppm)	1.91	0.0027 (ppm)	720.5822
3/15/2018 11:22:05	R1801822-011 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.2798
3/15/2018 11:22:05	R1801822-011 10X	Na (588.995 nm)	1.8730 (ppm)	1.56	1.8730 (ppm)	49335.4828
3/15/2018 11:22:05	R1801822-011 10X	Ni (230.299 nm)	0.0015 (ppm)	30.90	0.0015 (ppm)	-9.5279
3/15/2018 11:22:05	R1801822-011 10X	Pb (220.353 nm)	-0.0026 u (ppm)	84.52	-0.0026 (ppm)	0.6440
3/15/2018 11:22:05	R1801822-011 10X	Sb (217.582 nm)	-0.0010 u (ppm)	90.73	-0.0010 (ppm)	1.2021
3/15/2018 11:22:05	R1801822-011 10X	Se (196.026 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-1.1169
3/15/2018 11:22:05	R1801822-011 10X	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-0.4005
3/15/2018 11:22:05	R1801822-011 10X	Sr (216.596 nm)	0.0338 (ppm)	2.81	0.0338 (ppm)	415.7750

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:22:05	R1801822-011 10X	Ti (336.122 nm)	0.0039 (ppm)	3.22	0.0039 (ppm)	1.6189
3/15/2018 11:22:05	R1801822-011 10X	Ti (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	6.2764
3/15/2018 11:22:05	R1801822-011 10X	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	133.1680
3/15/2018 11:22:05	R1801822-011 10X	Y (360.074 nm)	1.07 (Ratio)	1.69	1.07 (Ratio)	752649.24
3/15/2018 11:22:05	R1801822-011 10X	Y_R (360.074 nm)	1.07 (Ratio)	1.69	1.07 (Ratio)	752401.92
3/15/2018 11:22:05	R1801822-011 10X	Zn (213.857 nm)	0.0146 (ppm)	1.96	0.0146 (ppm)	381.9038
3/15/2018 11:25:24	Continuing Calibration Verification	Ag (328.068 nm)	0.4889 (ppm)	0.27	0.4889 (ppm)	28325.5594
3/15/2018 11:25:24	Continuing Calibration Verification	Al (394.401 nm)	9.8394 (ppm)	0.38	9.8394 (ppm)	97723.3050
3/15/2018 11:25:24	Continuing Calibration Verification	As (188.980 nm)	0.9854 (ppm)	1.30	0.9854 (ppm)	815.2642
3/15/2018 11:25:24	Continuing Calibration Verification	B (249.772 nm)	2.4774 (ppm)	0.39	2.4774 (ppm)	62028.2469
3/15/2018 11:25:24	Continuing Calibration Verification	Ba (230.424 nm)	10.2690 (ppm)	0.46	10.2690 (ppm)	287534.7645
3/15/2018 11:25:24	Continuing Calibration Verification	Be (313.107 nm)	0.2563 (ppm)	0.28	0.2563 (ppm)	316892.5307
3/15/2018 11:25:24	Continuing Calibration Verification	Ca (227.547 nm)	24.6460 (ppm)	0.30	24.6460 (ppm)	1092.7892
3/15/2018 11:25:24	Continuing Calibration Verification	Cd (214.439 nm)	0.5018 (ppm)	0.30	0.5018 (ppm)	10045.2676
3/15/2018 11:25:24	Continuing Calibration Verification	Co (230.786 nm)	2.5740 (ppm)	0.28	2.5740 (ppm)	22761.5512
3/15/2018 11:25:24	Continuing Calibration Verification	Cr (267.716 nm)	0.5308 (ppm)	0.25	0.5308 (ppm)	21185.3287
3/15/2018 11:25:24	Continuing Calibration Verification	Cu (327.395 nm)	1.2507 (ppm)	0.42	1.2507 (ppm)	58826.2530
3/15/2018 11:25:24	Continuing Calibration Verification	Fe (234.350 nm)	5.0221 (ppm)	0.30	5.0221 (ppm)	47304.9089
3/15/2018 11:25:24	Continuing Calibration Verification	K (766.491 nm)	25.6303 (ppm)	0.50	25.6303 (ppm)	55943.8151
3/15/2018 11:25:24	Continuing Calibration Verification	Mg (279.078 nm)	24.9569 (ppm)	0.31	24.9569 (ppm)	44148.0645
3/15/2018 11:25:24	Continuing Calibration Verification	Mn (257.610 nm)	0.7760 (ppm)	0.31	0.7760 (ppm)	202467.7118
3/15/2018 11:25:24	Continuing Calibration Verification	Mo (202.032 nm)	2.5093 (ppm)	0.19	2.5093 (ppm)	21175.2163
3/15/2018 11:25:24	Continuing Calibration Verification	Na (588.995 nm)	26.1768 (ppm)	0.74	26.1768 (ppm)	805739.2326
3/15/2018 11:25:24	Continuing Calibration Verification	Ni (230.299 nm)	2.0608 (ppm)	0.32	2.0608 (ppm)	12489.1842
3/15/2018 11:25:24	Continuing Calibration Verification	Pb (220.353 nm)	0.5064 (ppm)	0.80	0.5064 (ppm)	991.1829
3/15/2018 11:25:24	Continuing Calibration Verification	Sb (217.582 nm)	5.0878 (ppm)	0.46	5.0878 (ppm)	6181.3461
3/15/2018 11:25:24	Continuing Calibration Verification	Se (196.026 nm)	0.5031 (ppm)	0.50	0.5031 (ppm)	417.3719
3/15/2018 11:25:24	Continuing Calibration Verification	Sn (189.925 nm)	4.9917 (ppm)	0.47	4.9917 (ppm)	5512.9873
3/15/2018 11:25:24	Continuing Calibration Verification	Sr (216.596 nm)	2.5405 (ppm)	0.44	2.5405 (ppm)	31417.5588
3/15/2018 11:25:24	Continuing Calibration Verification	Ti (336.122 nm)	2.5198 (ppm)	0.28	2.5198 (ppm)	408626.7334
3/15/2018 11:25:24	Continuing Calibration Verification	Ti (351.923 nm)	1.0270 (ppm)	0.95	1.0270 (ppm)	2218.6755
3/15/2018 11:25:24	Continuing Calibration Verification	V (292.401 nm)	2.5474 (ppm)	0.34	2.5474 (ppm)	74251.2179
3/15/2018 11:25:24	Continuing Calibration Verification	Y (360.074 nm)	1.03 (Ratio)	0.86	1.03 (Ratio)	725173.35
3/15/2018 11:25:24	Continuing Calibration Verification	Y_R (360.074 nm)	1.03 (Ratio)	0.86	1.03 (Ratio)	725057.33
3/15/2018 11:25:24	Continuing Calibration Verification	Zn (213.857 nm)	0.9662 (ppm)	0.37	0.9662 (ppm)	26210.8818
3/15/2018 11:28:43	Continuing Calibration Blank	Ag (328.068 nm)	-0.0003 u (ppm)	62.28	-0.0003 (ppm)	-113.5529
3/15/2018 11:28:43	Continuing Calibration Blank	Al (394.401 nm)	-0.0009 u (ppm)	92.32	-0.0009 (ppm)	139.5070
3/15/2018 11:28:43	Continuing Calibration Blank	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-4.4032
3/15/2018 11:28:43	Continuing Calibration Blank	B (249.772 nm)	-0.0005 u (ppm)	43.30	-0.0005 (ppm)	118.1336
3/15/2018 11:28:43	Continuing Calibration Blank	Ba (230.424 nm)	0.0016 (ppm)	21.10	0.0016 (ppm)	50.9071
3/15/2018 11:28:43	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	6.89	0.0001 (ppm)	-493.0392
3/15/2018 11:28:43	Continuing Calibration Blank	Ca (227.547 nm)	0.0399 u (ppm)	> 100.00	0.0399 (ppm)	6.2631
3/15/2018 11:28:43	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	46.14	0.0002 (ppm)	18.0559
3/15/2018 11:28:43	Continuing Calibration Blank	Co (230.786 nm)	0.0003 (ppm)	87.42	0.0003 (ppm)	-2.6903
3/15/2018 11:28:43	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.0892
3/15/2018 11:28:43	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	81.19	0.0002 (ppm)	24.8829
3/15/2018 11:28:43	Continuing Calibration Blank	Fe (234.350 nm)	0.0013 (ppm)	36.36	0.0013 (ppm)	29.3507
3/15/2018 11:28:43	Continuing Calibration Blank	K (766.491 nm)	0.0112 (ppm)	81.63	0.0112 (ppm)	14.2251
3/15/2018 11:28:43	Continuing Calibration Blank	Mg (279.078 nm)	0.0052 (ppm)	36.14	0.0052 (ppm)	2.9802
3/15/2018 11:28:43	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	16.50	0.0001 (ppm)	47.9170
3/15/2018 11:28:43	Continuing Calibration Blank	Mo (202.032 nm)	0.0021 (ppm)	20.79	0.0021 (ppm)	23.6150

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:28:43	Continuing Calibration Blank	Na (588.995 nm)	0.0498 (ppm)	3.38	0.0498 (ppm)	-7406.5682
3/15/2018 11:28:43	Continuing Calibration Blank	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-19.5766
3/15/2018 11:28:43	Continuing Calibration Blank	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.8293
3/15/2018 11:28:43	Continuing Calibration Blank	Sb (217.582 nm)	0.0022 (ppm)	83.11	0.0022 (ppm)	5.1860
3/15/2018 11:28:43	Continuing Calibration Blank	Se (196.026 nm)	-0.0028 u (ppm)	73.61	-0.0028 (ppm)	-4.4243
3/15/2018 11:28:43	Continuing Calibration Blank	Sn (189.925 nm)	0.0036 (ppm)	7.97	0.0036 (ppm)	2.1022
3/15/2018 11:28:43	Continuing Calibration Blank	Sr (216.596 nm)	0.0004 (ppm)	39.44	0.0004 (ppm)	1.9299
3/15/2018 11:28:43	Continuing Calibration Blank	Ti (336.122 nm)	0.0011 (ppm)	9.21	0.0011 (ppm)	-445.0818
3/15/2018 11:28:43	Continuing Calibration Blank	Ti (351.923 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	9.8382
3/15/2018 11:28:43	Continuing Calibration Blank	V (292.401 nm)	0.0003 (ppm)	61.86	0.0003 (ppm)	141.3392
3/15/2018 11:28:43	Continuing Calibration Blank	Y (360.074 nm)	1.06 (Ratio)	0.50	1.06 (Ratio)	746920.60
3/15/2018 11:28:43	Continuing Calibration Blank	Y_R (360.074 nm)	1.06 (Ratio)	0.49	1.06 (Ratio)	746519.50
3/15/2018 11:28:43	Continuing Calibration Blank	Zn (213.857 nm)	-0.0003 u (ppm)	26.21	-0.0003 (ppm)	-21.1588
3/15/2018 11:32:02	R1801822-019 10X	Ag (328.068 nm)	-0.0002 u (ppm)	24.14	-0.0002 (ppm)	-107.0958
3/15/2018 11:32:02	R1801822-019 10X	Al (394.401 nm)	0.0167 (ppm)	6.11	0.0167 (ppm)	314.0029
3/15/2018 11:32:02	R1801822-019 10X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-4.0313
3/15/2018 11:32:02	R1801822-019 10X	B (249.772 nm)	0.0060 (ppm)	5.36	0.0060 (ppm)	280.4464
3/15/2018 11:32:02	R1801822-019 10X	Ba (230.424 nm)	0.0031 (ppm)	6.07	0.0031 (ppm)	94.0864
3/15/2018 11:32:02	R1801822-019 10X	Be (313.107 nm)	0.0000 (ppm)	68.70	0.0000 (ppm)	-549.6543
3/15/2018 11:32:02	R1801822-019 10X	Ca (227.547 nm)	34.0763 (ppm)	1.59	34.0763 (ppm)	1509.2003
3/15/2018 11:32:02	R1801822-019 10X	Cd (214.439 nm)	-0.0004 u (ppm)	9.95	-0.0004 (ppm)	6.0968
3/15/2018 11:32:02	R1801822-019 10X	Co (230.786 nm)	0.0003 (ppm)	5.95	0.0003 (ppm)	-2.6774
3/15/2018 11:32:02	R1801822-019 10X	Cr (267.716 nm)	-0.0002 u (ppm)	36.77	-0.0002 (ppm)	-9.0674
3/15/2018 11:32:02	R1801822-019 10X	Cu (327.395 nm)	0.0002 (ppm)	20.06	0.0002 (ppm)	26.5633
3/15/2018 11:32:02	R1801822-019 10X	Fe (234.350 nm)	0.0182 (ppm)	1.64	0.0182 (ppm)	188.2872
3/15/2018 11:32:02	R1801822-019 10X	K (766.491 nm)	0.3171 (ppm)	2.28	0.3171 (ppm)	681.8660
3/15/2018 11:32:02	R1801822-019 10X	Mg (279.078 nm)	10.7211 (ppm)	1.76	10.7211 (ppm)	18961.8507
3/15/2018 11:32:02	R1801822-019 10X	Mn (257.610 nm)	0.0021 (ppm)	2.47	0.0021 (ppm)	575.5792
3/15/2018 11:32:02	R1801822-019 10X	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	7.4094
3/15/2018 11:32:02	R1801822-019 10X	Na (588.995 nm)	2.4744 (ppm)	1.62	2.4744 (ppm)	68053.9673
3/15/2018 11:32:02	R1801822-019 10X	Ni (230.299 nm)	0.0021 (ppm)	54.42	0.0021 (ppm)	-6.0255
3/15/2018 11:32:02	R1801822-019 10X	Pb (220.353 nm)	-0.0025 u (ppm)	48.03	-0.0025 (ppm)	0.7075
3/15/2018 11:32:02	R1801822-019 10X	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	2.8179
3/15/2018 11:32:02	R1801822-019 10X	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.9149
3/15/2018 11:32:02	R1801822-019 10X	Sn (189.925 nm)	0.0015 (ppm)	> 100.00	0.0015 (ppm)	-0.2223
3/15/2018 11:32:02	R1801822-019 10X	Sr (216.596 nm)	0.9408 (ppm)	2.09	0.9408 (ppm)	11632.3901
3/15/2018 11:32:02	R1801822-019 10X	Ti (336.122 nm)	0.0025 (ppm)	2.47	0.0025 (ppm)	-221.4135
3/15/2018 11:32:02	R1801822-019 10X	Ti (351.923 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	13.4888
3/15/2018 11:32:02	R1801822-019 10X	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	135.7127
3/15/2018 11:32:02	R1801822-019 10X	Y (360.074 nm)	1.08 (Ratio)	1.76	1.08 (Ratio)	757759.74
3/15/2018 11:32:02	R1801822-019 10X	Y_R (360.074 nm)	1.08 (Ratio)	1.76	1.08 (Ratio)	757488.49
3/15/2018 11:32:02	R1801822-019 10X	Zn (213.857 nm)	0.0086 (ppm)	2.59	0.0086 (ppm)	218.9655
3/15/2018 11:35:22	R1801822-025 10X	Ag (328.068 nm)	-0.0002 u (ppm)	60.13	-0.0002 (ppm)	-107.4858
3/15/2018 11:35:22	R1801822-025 10X	Al (394.401 nm)	0.0104 (ppm)	4.08	0.0104 (ppm)	251.7501
3/15/2018 11:35:22	R1801822-025 10X	As (188.980 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-3.1421
3/15/2018 11:35:22	R1801822-025 10X	B (249.772 nm)	0.0431 (ppm)	0.23	0.0431 (ppm)	1205.8765
3/15/2018 11:35:22	R1801822-025 10X	Ba (230.424 nm)	0.0118 (ppm)	1.72	0.0118 (ppm)	337.1681
3/15/2018 11:35:22	R1801822-025 10X	Be (313.107 nm)	0.0000 (ppm)	22.65	0.0000 (ppm)	-536.6907
3/15/2018 11:35:22	R1801822-025 10X	Ca (227.547 nm)	21.1881 (ppm)	0.34	21.1881 (ppm)	940.0992
3/15/2018 11:35:22	R1801822-025 10X	Cd (214.439 nm)	-0.0005 u (ppm)	22.42	-0.0005 (ppm)	5.2718
3/15/2018 11:35:22	R1801822-025 10X	Co (230.786 nm)	0.0008 (ppm)	59.37	0.0008 (ppm)	1.6585

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:35:22	R1801822-025 10X	Cr (267.716 nm)	-0.0003 u (ppm)	42.70	-0.0003 (ppm)	-11.2325
3/15/2018 11:35:22	R1801822-025 10X	Cu (327.395 nm)	0.0005 (ppm)	19.51	0.0005 (ppm)	37.4164
3/15/2018 11:35:22	R1801822-025 10X	Fe (234.350 nm)	0.5854 (ppm)	0.46	0.5854 (ppm)	5529.4322
3/15/2018 11:35:22	R1801822-025 10X	K (766.491 nm)	0.5353 (ppm)	0.15	0.5353 (ppm)	1158.2720
3/15/2018 11:35:22	R1801822-025 10X	Mg (279.078 nm)	8.8046 (ppm)	0.41	8.8046 (ppm)	15571.0884
3/15/2018 11:35:22	R1801822-025 10X	Mn (257.610 nm)	0.0920 (ppm)	0.43	0.0920 (ppm)	24028.2376
3/15/2018 11:35:22	R1801822-025 10X	Mo (202.032 nm)	0.0008 (ppm)	29.88	0.0008 (ppm)	12.6214
3/15/2018 11:35:22	R1801822-025 10X	Na (588.995 nm)	3.3325 (ppm)	0.51	3.3325 (ppm)	94761.0819
3/15/2018 11:35:22	R1801822-025 10X	Ni (230.299 nm)	0.0015 (ppm)	48.65	0.0015 (ppm)	-9.2860
3/15/2018 11:35:22	R1801822-025 10X	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	3.3958
3/15/2018 11:35:22	R1801822-025 10X	Sb (217.582 nm)	0.0024 (ppm)	61.19	0.0024 (ppm)	5.4118
3/15/2018 11:35:22	R1801822-025 10X	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.1942
3/15/2018 11:35:22	R1801822-025 10X	Sn (189.925 nm)	0.0025 u (ppm)	94.39	0.0025 (ppm)	0.9225
3/15/2018 11:35:22	R1801822-025 10X	Sr (216.596 nm)	1.0163 (ppm)	1.91	1.0163 (ppm)	12566.1216
3/15/2018 11:35:22	R1801822-025 10X	Ti (336.122 nm)	0.0023 (ppm)	4.21	0.0023 (ppm)	-251.7032
3/15/2018 11:35:22	R1801822-025 10X	Ti (351.923 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	9.3980
3/15/2018 11:35:22	R1801822-025 10X	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	133.4387
3/15/2018 11:35:22	R1801822-025 10X	Y (360.074 nm)	1.07 (Ratio)	1.16	1.07 (Ratio)	752065.14
3/15/2018 11:35:22	R1801822-025 10X	Y_R (360.074 nm)	1.07 (Ratio)	1.16	1.07 (Ratio)	751717.62
3/15/2018 11:35:22	R1801822-025 10X	Zn (213.857 nm)	0.0217 (ppm)	0.95	0.0217 (ppm)	575.1567
3/15/2018 11:38:41	R1801822-025S 10X	Ag (328.068 nm)	0.0048 (ppm)	1.98	0.0048 (ppm)	181.4615
3/15/2018 11:38:41	R1801822-025S 10X	Al (394.401 nm)	0.1933 (ppm)	2.27	0.1933 (ppm)	2065.1498
3/15/2018 11:38:41	R1801822-025S 10X	As (188.980 nm)	0.0072 (ppm)	28.17	0.0072 (ppm)	1.3181
3/15/2018 11:38:41	R1801822-025S 10X	B (249.772 nm)	0.1463 (ppm)	2.55	0.1463 (ppm)	3784.9835
3/15/2018 11:38:41	R1801822-025S 10X	Ba (230.424 nm)	0.2202 (ppm)	1.57	0.2202 (ppm)	6172.9151
3/15/2018 11:38:41	R1801822-025S 10X	Be (313.107 nm)	0.0051 (ppm)	2.35	0.0051 (ppm)	5744.1472
3/15/2018 11:38:41	R1801822-025S 10X	Ca (227.547 nm)	20.7791 (ppm)	2.32	20.7791 (ppm)	922.0365
3/15/2018 11:38:41	R1801822-025S 10X	Cd (214.439 nm)	0.0048 (ppm)	6.37	0.0048 (ppm)	109.8402
3/15/2018 11:38:41	R1801822-025S 10X	Co (230.786 nm)	0.0518 (ppm)	2.89	0.0518 (ppm)	453.2093
3/15/2018 11:38:41	R1801822-025S 10X	Cr (267.716 nm)	0.0211 (ppm)	2.89	0.0211 (ppm)	841.1566
3/15/2018 11:38:41	R1801822-025S 10X	Cu (327.395 nm)	0.0238 (ppm)	3.46	0.0238 (ppm)	1134.9374
3/15/2018 11:38:41	R1801822-025S 10X	Fe (234.350 nm)	0.6734 (ppm)	3.28	0.6734 (ppm)	6357.9775
3/15/2018 11:38:41	R1801822-025S 10X	K (766.491 nm)	2.5004 (ppm)	1.83	2.5004 (ppm)	5448.4514
3/15/2018 11:38:41	R1801822-025S 10X	Mg (279.078 nm)	8.8191 (ppm)	2.64	8.8191 (ppm)	15596.6837
3/15/2018 11:38:41	R1801822-025S 10X	Mn (257.610 nm)	0.1380 (ppm)	2.88	0.1380 (ppm)	36016.9298
3/15/2018 11:38:41	R1801822-025S 10X	Mo (202.032 nm)	0.0491 (ppm)	3.30	0.0491 (ppm)	420.1239
3/15/2018 11:38:41	R1801822-025S 10X	Na (588.995 nm)	5.3922 (ppm)	1.81	5.3922 (ppm)	158862.8689
3/15/2018 11:38:41	R1801822-025S 10X	Ni (230.299 nm)	0.0511 (ppm)	3.59	0.0511 (ppm)	291.5513
3/15/2018 11:38:41	R1801822-025S 10X	Pb (220.353 nm)	0.0489 (ppm)	2.61	0.0489 (ppm)	100.8394
3/15/2018 11:38:41	R1801822-025S 10X	Sb (217.582 nm)	0.0503 (ppm)	4.55	0.0503 (ppm)	63.5925
3/15/2018 11:38:41	R1801822-025S 10X	Se (196.026 nm)	0.1244 (ppm)	2.86	0.1244 (ppm)	101.5945
3/15/2018 11:38:41	R1801822-025S 10X	Sn (189.925 nm)	0.4897 (ppm)	3.94	0.4897 (ppm)	539.1909
3/15/2018 11:38:41	R1801822-025S 10X	Sr (216.596 nm)	1.1570 (ppm)	7.99	1.1570 (ppm)	14306.5160
3/15/2018 11:38:41	R1801822-025S 10X	Ti (336.122 nm)	0.0518 (ppm)	2.10	0.0518 (ppm)	7781.0233
3/15/2018 11:38:41	R1801822-025S 10X	Ti (351.923 nm)	0.1969 (ppm)	3.96	0.1969 (ppm)	431.9938
3/15/2018 11:38:41	R1801822-025S 10X	V (292.401 nm)	0.0504 (ppm)	3.09	0.0504 (ppm)	1597.9090
3/15/2018 11:38:41	R1801822-025S 10X	Y (360.074 nm)	1.05 (Ratio)	3.31	1.05 (Ratio)	738367.96
3/15/2018 11:38:41	R1801822-025S 10X	Y_R (360.074 nm)	1.05 (Ratio)	3.31	1.05 (Ratio)	737961.59
3/15/2018 11:38:41	R1801822-025S 10X	Zn (213.857 nm)	0.0543 (ppm)	2.22	0.0543 (ppm)	1459.6045
3/15/2018 11:42:01	R1801822-025SD 10X	Ag (328.068 nm)	0.0050 (ppm)	1.92	0.0050 (ppm)	192.6078
3/15/2018 11:42:01	R1801822-025SD 10X	Al (394.401 nm)	0.1956 (ppm)	1.47	0.1956 (ppm)	2088.3041

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:42:01	R1801822-025SD 10X	As (188.980 nm)	0.0061 (ppm)	31.06	0.0061 (ppm)	0.3684
3/15/2018 11:42:01	R1801822-025SD 10X	B (249.772 nm)	0.1469 (ppm)	1.30	0.1469 (ppm)	3799.9622
3/15/2018 11:42:01	R1801822-025SD 10X	Ba (230.424 nm)	0.2226 (ppm)	1.62	0.2226 (ppm)	6239.6248
3/15/2018 11:42:01	R1801822-025SD 10X	Be (313.107 nm)	0.0051 (ppm)	1.36	0.0051 (ppm)	5777.9397
3/15/2018 11:42:01	R1801822-025SD 10X	Ca (227.547 nm)	20.8215 (ppm)	1.09	20.8215 (ppm)	923.9105
3/15/2018 11:42:01	R1801822-025SD 10X	Cd (214.439 nm)	0.0047 (ppm)	2.59	0.0047 (ppm)	109.1322
3/15/2018 11:42:01	R1801822-025SD 10X	Co (230.786 nm)	0.0510 (ppm)	0.77	0.0510 (ppm)	445.4472
3/15/2018 11:42:01	R1801822-025SD 10X	Cr (267.716 nm)	0.0211 (ppm)	1.21	0.0211 (ppm)	842.1069
3/15/2018 11:42:01	R1801822-025SD 10X	Cu (327.395 nm)	0.0240 (ppm)	1.39	0.0240 (ppm)	1144.8308
3/15/2018 11:42:01	R1801822-025SD 10X	Fe (234.350 nm)	0.6756 (ppm)	1.60	0.6756 (ppm)	6378.9299
3/15/2018 11:42:01	R1801822-025SD 10X	K (766.491 nm)	2.5032 (ppm)	1.64	2.5032 (ppm)	5454.5790
3/15/2018 11:42:01	R1801822-025SD 10X	Mg (279.078 nm)	8.8757 (ppm)	1.57	8.8757 (ppm)	15696.9163
3/15/2018 11:42:01	R1801822-025SD 10X	Mn (257.610 nm)	0.1385 (ppm)	1.42	0.1385 (ppm)	36149.4489
3/15/2018 11:42:01	R1801822-025SD 10X	Mo (202.032 nm)	0.0496 (ppm)	0.99	0.0496 (ppm)	424.5595
3/15/2018 11:42:01	R1801822-025SD 10X	Na (588.995 nm)	5.4300 (ppm)	1.53	5.4300 (ppm)	160040.1036
3/15/2018 11:42:01	R1801822-025SD 10X	Ni (230.299 nm)	0.0509 (ppm)	3.41	0.0509 (ppm)	290.5984
3/15/2018 11:42:01	R1801822-025SD 10X	Pb (220.353 nm)	0.0504 (ppm)	2.39	0.0504 (ppm)	103.6532
3/15/2018 11:42:01	R1801822-025SD 10X	Sb (217.582 nm)	0.0499 (ppm)	9.60	0.0499 (ppm)	63.0677
3/15/2018 11:42:01	R1801822-025SD 10X	Se (196.026 nm)	0.1265 (ppm)	2.53	0.1265 (ppm)	103.3691
3/15/2018 11:42:01	R1801822-025SD 10X	Sn (189.925 nm)	0.5066 (ppm)	0.98	0.5066 (ppm)	557.8724
3/15/2018 11:42:01	R1801822-025SD 10X	Sr (216.596 nm)	1.2442 (ppm)	1.19	1.2442 (ppm)	15385.4048
3/15/2018 11:42:01	R1801822-025SD 10X	Ti (336.122 nm)	0.0522 (ppm)	1.38	0.0522 (ppm)	7847.1120
3/15/2018 11:42:01	R1801822-025SD 10X	Tl (351.923 nm)	0.1993 (ppm)	2.31	0.1993 (ppm)	437.2785
3/15/2018 11:42:01	R1801822-025SD 10X	V (292.401 nm)	0.0506 (ppm)	1.39	0.0506 (ppm)	1603.2955
3/15/2018 11:42:01	R1801822-025SD 10X	Y (360.074 nm)	1.05 (Ratio)	1.57	1.05 (Ratio)	742617.18
3/15/2018 11:42:01	R1801822-025SD 10X	Y_R (360.074 nm)	1.06 (Ratio)	1.56	1.06 (Ratio)	742233.28
3/15/2018 11:42:01	R1801822-025SD 10X	Zn (213.857 nm)	0.0544 (ppm)	2.65	0.0544 (ppm)	1462.8139
3/15/2018 11:45:20	R1801822-025A 10X	Ag (328.068 nm)	0.0490 (ppm)	1.63	0.0490 (ppm)	2755.4124
3/15/2018 11:45:20	R1801822-025A 10X	Al (394.401 nm)	1.8039 (ppm)	1.57	1.8039 (ppm)	18036.9904
3/15/2018 11:45:20	R1801822-025A 10X	As (188.980 nm)	0.0424 (ppm)	2.91	0.0424 (ppm)	30.5915
3/15/2018 11:45:20	R1801822-025A 10X	B (249.772 nm)	1.0019 (ppm)	1.39	1.0019 (ppm)	25163.3578
3/15/2018 11:45:20	R1801822-025A 10X	Ba (230.424 nm)	1.9315 (ppm)	1.43	1.9315 (ppm)	54087.3242
3/15/2018 11:45:20	R1801822-025A 10X	Be (313.107 nm)	0.0473 (ppm)	1.45	0.0473 (ppm)	58074.4086
3/15/2018 11:45:20	R1801822-025A 10X	Ca (227.547 nm)	23.6535 (ppm)	1.34	23.6535 (ppm)	1048.9636
3/15/2018 11:45:20	R1801822-025A 10X	Cd (214.439 nm)	0.0481 (ppm)	1.06	0.0481 (ppm)	975.9036
3/15/2018 11:45:20	R1801822-025A 10X	Co (230.786 nm)	0.4812 (ppm)	1.48	0.4812 (ppm)	4251.1809
3/15/2018 11:45:20	R1801822-025A 10X	Cr (267.716 nm)	0.1938 (ppm)	1.35	0.1938 (ppm)	7735.9312
3/15/2018 11:45:20	R1801822-025A 10X	Cu (327.395 nm)	0.2222 (ppm)	1.42	0.2222 (ppm)	10463.8713
3/15/2018 11:45:20	R1801822-025A 10X	Fe (234.350 nm)	1.5305 (ppm)	1.59	1.5305 (ppm)	14428.6721
3/15/2018 11:45:20	R1801822-025A 10X	K (766.491 nm)	19.3453 (ppm)	1.53	19.3453 (ppm)	42222.9018
3/15/2018 11:45:20	R1801822-025A 10X	Mg (279.078 nm)	10.9068 (ppm)	1.54	10.9068 (ppm)	19290.3826
3/15/2018 11:45:20	R1801822-025A 10X	Mn (257.610 nm)	0.5737 (ppm)	1.56	0.5737 (ppm)	149683.1475
3/15/2018 11:45:20	R1801822-025A 10X	Mo (202.032 nm)	0.0012 (ppm)	19.09	0.0012 (ppm)	15.9448
3/15/2018 11:45:20	R1801822-025A 10X	Na (588.995 nm)	22.1905 (ppm)	1.56	22.1905 (ppm)	681676.5260
3/15/2018 11:45:20	R1801822-025A 10X	Ni (230.299 nm)	0.4705 (ppm)	1.60	0.4705 (ppm)	2837.2619
3/15/2018 11:45:20	R1801822-025A 10X	Pb (220.353 nm)	0.4763 (ppm)	1.86	0.4763 (ppm)	932.6585
3/15/2018 11:45:20	R1801822-025A 10X	Sb (217.582 nm)	0.0014 (ppm)	80.32	0.0014 (ppm)	4.1602
3/15/2018 11:45:20	R1801822-025A 10X	Se (196.026 nm)	0.0120 (ppm)	12.34	0.0120 (ppm)	7.9176
3/15/2018 11:45:20	R1801822-025A 10X	Sn (189.925 nm)	0.0091 (ppm)	19.05	0.0091 (ppm)	8.1858
3/15/2018 11:45:20	R1801822-025A 10X	Sr (216.596 nm)	1.0239 (ppm)	1.83	1.0239 (ppm)	12660.6783
3/15/2018 11:45:20	R1801822-025A 10X	Ti (336.122 nm)	0.0023 (ppm)	2.39	0.0023 (ppm)	253.4533

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:45:20	R1801822-025A 10X	Ti (351.923 nm)	1.8332 (ppm)	1.48	1.8332 (ppm)	3953.8053
3/15/2018 11:45:20	R1801822-025A 10X	V (292.401 nm)	0.4660 (ppm)	1.46	0.4660 (ppm)	13689.1646
3/15/2018 11:45:20	R1801822-025A 10X	Y (360.074 nm)	1.04 (Ratio)	1.63	1.04 (Ratio)	730513.01
3/15/2018 11:45:20	R1801822-025A 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.64	1.04 (Ratio)	730176.07
3/15/2018 11:45:20	R1801822-025A 10X	Zn (213.857 nm)	0.4722 (ppm)	1.63	0.4722 (ppm)	12802.0446
3/15/2018 11:48:39	R1801822-025L 10X	Ag (328.068 nm)	-0.0001 u (ppm)	99.43	-0.0001 (ppm)	-101.2180
3/15/2018 11:48:39	R1801822-025L 10X	Al (394.401 nm)	0.0018 u (ppm)	92.31	0.0018 (ppm)	165.7607
3/15/2018 11:48:39	R1801822-025L 10X	As (188.980 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-3.5954
3/15/2018 11:48:39	R1801822-025L 10X	B (249.772 nm)	0.0072 (ppm)	6.28	0.0072 (ppm)	310.5154
3/15/2018 11:48:39	R1801822-025L 10X	Ba (230.424 nm)	0.0029 (ppm)	10.62	0.0029 (ppm)	86.3464
3/15/2018 11:48:39	R1801822-025L 10X	Be (313.107 nm)	0.0000 (ppm)	22.11	0.0000 (ppm)	-542.7823
3/15/2018 11:48:39	R1801822-025L 10X	Ca (227.547 nm)	4.1527 (ppm)	1.45	4.1527 (ppm)	187.8727
3/15/2018 11:48:39	R1801822-025L 10X	Cd (214.439 nm)	-0.0004 u (ppm)	48.08	-0.0004 (ppm)	7.5102
3/15/2018 11:48:39	R1801822-025L 10X	Co (230.786 nm)	0.0005 (ppm)	16.74	0.0005 (ppm)	-0.6665
3/15/2018 11:48:39	R1801822-025L 10X	Cr (267.716 nm)	-0.0002 u (ppm)	59.12	-0.0002 (ppm)	-6.2270
3/15/2018 11:48:39	R1801822-025L 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.8727
3/15/2018 11:48:39	R1801822-025L 10X	Fe (234.350 nm)	0.1184 (ppm)	2.52	0.1184 (ppm)	1132.1251
3/15/2018 11:48:39	R1801822-025L 10X	K (766.491 nm)	0.1177 (ppm)	11.70	0.1177 (ppm)	246.7192
3/15/2018 11:48:39	R1801822-025L 10X	Mg (279.078 nm)	1.7900 (ppm)	1.43	1.7900 (ppm)	3160.6723
3/15/2018 11:48:39	R1801822-025L 10X	Mn (257.610 nm)	0.0190 (ppm)	2.07	0.0190 (ppm)	4986.5005
3/15/2018 11:48:39	R1801822-025L 10X	Mo (202.032 nm)	0.0003 (ppm)	19.97	0.0003 (ppm)	8.8166
3/15/2018 11:48:39	R1801822-025L 10X	Na (588.995 nm)	0.6993 (ppm)	1.99	0.6993 (ppm)	12809.0681
3/15/2018 11:48:39	R1801822-025L 10X	Ni (230.299 nm)	0.0012 (ppm)	26.01	0.0012 (ppm)	-11.1649
3/15/2018 11:48:39	R1801822-025L 10X	Pb (220.353 nm)	-0.0024 u (ppm)	33.33	-0.0024 (ppm)	1.0099
3/15/2018 11:48:39	R1801822-025L 10X	Sb (217.582 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	0.7083
3/15/2018 11:48:39	R1801822-025L 10X	Se (196.026 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	-3.8491
3/15/2018 11:48:39	R1801822-025L 10X	Sn (189.925 nm)	0.0037 (ppm)	14.55	0.0037 (ppm)	2.1938
3/15/2018 11:48:39	R1801822-025L 10X	Sr (216.596 nm)	0.2073 (ppm)	1.68	0.2073 (ppm)	2560.7424
3/15/2018 11:48:39	R1801822-025L 10X	Ti (336.122 nm)	0.0023 (ppm)	2.53	0.0023 (ppm)	-258.9666
3/15/2018 11:48:39	R1801822-025L 10X	Ti (351.923 nm)	0.0027 (ppm)	50.56	0.0027 (ppm)	14.1252
3/15/2018 11:48:39	R1801822-025L 10X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	132.9024
3/15/2018 11:48:39	R1801822-025L 10X	Y (360.074 nm)	1.06 (Ratio)	1.43	1.06 (Ratio)	748100.84
3/15/2018 11:48:39	R1801822-025L 10X	Y_R (360.074 nm)	1.06 (Ratio)	1.43	1.06 (Ratio)	747594.19
3/15/2018 11:48:39	R1801822-025L 10X	Zn (213.857 nm)	0.0081 (ppm)	3.59	0.0081 (ppm)	205.0145
3/15/2018 11:51:58	R1801822-026 10X	Ag (328.068 nm)	-0.0003 u (ppm)	2.83	-0.0003 (ppm)	-111.8445
3/15/2018 11:51:58	R1801822-026 10X	Al (394.401 nm)	0.0095 (ppm)	1.87	0.0095 (ppm)	242.3605
3/15/2018 11:51:58	R1801822-026 10X	As (188.980 nm)	0.0033 (ppm)	51.74	0.0033 (ppm)	-1.9185
3/15/2018 11:51:58	R1801822-026 10X	B (249.772 nm)	0.0205 (ppm)	2.56	0.0205 (ppm)	641.8547
3/15/2018 11:51:58	R1801822-026 10X	Ba (230.424 nm)	0.0034 (ppm)	1.49	0.0034 (ppm)	100.9568
3/15/2018 11:51:58	R1801822-026 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.2657
3/15/2018 11:51:58	R1801822-026 10X	Ca (227.547 nm)	20.8925 (ppm)	1.65	20.8925 (ppm)	927.0441
3/15/2018 11:51:58	R1801822-026 10X	Cd (214.439 nm)	-0.0005 u (ppm)	12.11	-0.0005 (ppm)	4.1275
3/15/2018 11:51:58	R1801822-026 10X	Co (230.786 nm)	0.0009 (ppm)	23.85	0.0009 (ppm)	2.3064
3/15/2018 11:51:58	R1801822-026 10X	Cr (267.716 nm)	-0.0003 u (ppm)	15.36	-0.0003 (ppm)	-11.5592
3/15/2018 11:51:58	R1801822-026 10X	Cu (327.395 nm)	0.0001 (ppm)	97.41	0.0001 (ppm)	20.7819
3/15/2018 11:51:58	R1801822-026 10X	Fe (234.350 nm)	0.0701 (ppm)	2.20	0.0701 (ppm)	677.8109
3/15/2018 11:51:58	R1801822-026 10X	K (766.491 nm)	0.8083 (ppm)	1.99	0.8083 (ppm)	1754.2873
3/15/2018 11:51:58	R1801822-026 10X	Mg (279.078 nm)	20.1582 (ppm)	1.88	20.1582 (ppm)	35658.0871
3/15/2018 11:51:58	R1801822-026 10X	Mn (257.610 nm)	0.0252 (ppm)	1.75	0.0252 (ppm)	6588.8949
3/15/2018 11:51:58	R1801822-026 10X	Mo (202.032 nm)	0.0002 (ppm)	62.71	0.0002 (ppm)	7.3128
3/15/2018 11:51:58	R1801822-026 10X	Na (588.995 nm)	10.0059 (ppm)	1.84	10.0059 (ppm)	302456.8924



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:51:58	R1801822-026 10X	Ni (230.299 nm)	0.0053 (ppm)	9.15	0.0053 (ppm)	13.3630
3/15/2018 11:51:58	R1801822-026 10X	Pb (220.353 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	2.4492
3/15/2018 11:51:58	R1801822-026 10X	Sb (217.582 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	1.3640
3/15/2018 11:51:58	R1801822-026 10X	Se (196.026 nm)	0.0023 (ppm)	36.63	0.0023 (ppm)	-0.1982
3/15/2018 11:51:58	R1801822-026 10X	Sn (189.925 nm)	0.0033 (ppm)	42.45	0.0033 (ppm)	-1.7472
3/15/2018 11:51:58	R1801822-026 10X	Sr (216.596 nm)	1.1931 (ppm)	2.45	1.1931 (ppm)	14753.2175
3/15/2018 11:51:58	R1801822-026 10X	Ti (336.122 nm)	0.0022 (ppm)	1.25	0.0022 (ppm)	-273.7696
3/15/2018 11:51:58	R1801822-026 10X	Tl (351.923 nm)	0.0030 (ppm)	55.68	0.0030 (ppm)	14.8256
3/15/2018 11:51:58	R1801822-026 10X	V (292.401 nm)	0.0002 (ppm)	95.18	0.0002 (ppm)	136.4886
3/15/2018 11:51:58	R1801822-026 10X	Y (360.074 nm)	1.04 (Ratio)	1.75	1.04 (Ratio)	734373.83
3/15/2018 11:51:58	R1801822-026 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.74	1.04 (Ratio)	733953.36
3/15/2018 11:51:58	R1801822-026 10X	Zn (213.857 nm)	0.0027 (ppm)	2.52	0.0027 (ppm)	60.2734
3/15/2018 11:55:17	R1801851-001 10X	Ag (328.068 nm)	-0.0002 u (ppm)	30.29	-0.0002 (ppm)	-107.3151
3/15/2018 11:55:17	R1801851-001 10X	Al (394.401 nm)	0.0171 (ppm)	4.22	0.0171 (ppm)	317.5068
3/15/2018 11:55:17	R1801851-001 10X	As (188.980 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-3.3289
3/15/2018 11:55:17	R1801851-001 10X	B (249.772 nm)	0.0128 (ppm)	1.76	0.0128 (ppm)	450.9850
3/15/2018 11:55:17	R1801851-001 10X	Ba (230.424 nm)	0.0512 (ppm)	1.02	0.0512 (ppm)	1439.8100
3/15/2018 11:55:17	R1801851-001 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-576.7746
3/15/2018 11:55:17	R1801851-001 10X	Ca (227.547 nm)	39.1223 (ppm)	1.71	39.1223 (ppm)	1732.0147
3/15/2018 11:55:17	R1801851-001 10X	Cd (214.439 nm)	-0.0004 u (ppm)	14.24	-0.0004 (ppm)	6.6771
3/15/2018 11:55:17	R1801851-001 10X	Co (230.786 nm)	0.0004 (ppm)	46.20	0.0004 (ppm)	-1.5152
3/15/2018 11:55:17	R1801851-001 10X	Cr (267.716 nm)	-0.0009 u (ppm)	19.49	-0.0009 (ppm)	-34.9363
3/15/2018 11:55:17	R1801851-001 10X	Cu (327.395 nm)	0.0011 (ppm)	15.12	0.0011 (ppm)	69.1001
3/15/2018 11:55:17	R1801851-001 10X	Fe (234.350 nm)	0.0143 (ppm)	2.50	0.0143 (ppm)	151.9516
3/15/2018 11:55:17	R1801851-001 10X	K (766.491 nm)	4.9306 (ppm)	1.49	4.9306 (ppm)	10753.8122
3/15/2018 11:55:17	R1801851-001 10X	Mg (279.078 nm)	6.1333 (ppm)	1.67	6.1333 (ppm)	10844.8900
3/15/2018 11:55:17	R1801851-001 10X	Mn (257.610 nm)	1.8044 u (ppm)	1.47	1.8044 (ppm)	470740.4187
3/15/2018 11:55:17	R1801851-001 10X	Mo (202.032 nm)	0.0006 (ppm)	53.40	0.0006 (ppm)	10.7461
3/15/2018 11:55:17	R1801851-001 10X	Na (588.995 nm)	77.5258 o (ppm)	1.41	77.5258 (ppm)	2403867.5277
3/15/2018 11:55:17	R1801851-001 10X	Ni (230.299 nm)	0.0038 (ppm)	7.84	0.0038 (ppm)	4.6920
3/15/2018 11:55:17	R1801851-001 10X	Pb (220.353 nm)	-0.0024 u (ppm)	45.29	-0.0024 (ppm)	1.0007
3/15/2018 11:55:17	R1801851-001 10X	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	2.2108
3/15/2018 11:55:17	R1801851-001 10X	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-2.5788
3/15/2018 11:55:17	R1801851-001 10X	Sn (189.925 nm)	0.0024 (ppm)	37.12	0.0024 (ppm)	0.8393
3/15/2018 11:55:17	R1801851-001 10X	Sr (216.596 nm)	1.6133 (ppm)	1.83	1.6133 (ppm)	19949.9884
3/15/2018 11:55:17	R1801851-001 10X	Ti (336.122 nm)	0.0024 (ppm)	4.58	0.0024 (ppm)	-241.5048
3/15/2018 11:55:17	R1801851-001 10X	Tl (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	5.6405
3/15/2018 11:55:17	R1801851-001 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	134.9850
3/15/2018 11:55:17	R1801851-001 10X	Y (360.074 nm)	1.03 (Ratio)	1.77	1.03 (Ratio)	727060.61
3/15/2018 11:55:17	R1801851-001 10X	Y_R (360.074 nm)	1.03 (Ratio)	1.77	1.03 (Ratio)	726752.74
3/15/2018 11:55:17	R1801851-001 10X	Zn (213.857 nm)	0.0080 (ppm)	1.28	0.0080 (ppm)	201.8961
3/15/2018 11:58:36	R1801851-002 10X	Ag (328.068 nm)	-0.0003 u (ppm)	12.93	-0.0003 (ppm)	-111.1079
3/15/2018 11:58:36	R1801851-002 10X	Al (394.401 nm)	0.0166 (ppm)	5.57	0.0166 (ppm)	313.2651
3/15/2018 11:58:36	R1801851-002 10X	As (188.980 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	-2.1434
3/15/2018 11:58:36	R1801851-002 10X	B (249.772 nm)	0.0105 (ppm)	6.17	0.0105 (ppm)	392.4757
3/15/2018 11:58:36	R1801851-002 10X	Ba (230.424 nm)	0.0160 (ppm)	1.56	0.0160 (ppm)	454.5946
3/15/2018 11:58:36	R1801851-002 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-564.6349
3/15/2018 11:58:36	R1801851-002 10X	Ca (227.547 nm)	35.7480 (ppm)	1.49	35.7480 (ppm)	1583.0180
3/15/2018 11:58:36	R1801851-002 10X	Cd (214.439 nm)	-0.0003 u (ppm)	16.92	-0.0003 (ppm)	8.0262
3/15/2018 11:58:36	R1801851-002 10X	Co (230.786 nm)	0.0003 (ppm)	40.66	0.0003 (ppm)	-2.3405
3/15/2018 11:58:36	R1801851-002 10X	Cr (267.716 nm)	-0.0003 u (ppm)	33.65	-0.0003 (ppm)	-12.5731

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 11:58:36	R1801851-002 10X	Cu (327.395 nm)	0.0009 (ppm)	39.27	0.0009 (ppm)	58.3480
3/15/2018 11:58:36	R1801851-002 10X	Fe (234.350 nm)	0.0117 (ppm)	2.47	0.0117 (ppm)	127.1999
3/15/2018 11:58:36	R1801851-002 10X	K (766.491 nm)	4.7325 (ppm)	1.73	4.7325 (ppm)	10321.3983
3/15/2018 11:58:36	R1801851-002 10X	Mg (279.078 nm)	8.1872 (ppm)	1.62	8.1872 (ppm)	14478.8090
3/15/2018 11:58:36	R1801851-002 10X	Mn (257.610 nm)	0.2002 (ppm)	1.62	0.2002 (ppm)	52256.8035
3/15/2018 11:58:36	R1801851-002 10X	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	7.4133
3/15/2018 11:58:36	R1801851-002 10X	Na (588.995 nm)	62.7951 o (ppm)	1.53	62.7951 (ppm)	1945408.0173
3/15/2018 11:58:36	R1801851-002 10X	Ni (230.299 nm)	0.0030 (ppm)	16.82	0.0030 (ppm)	-0.3532
3/15/2018 11:58:36	R1801851-002 10X	Pb (220.353 nm)	-0.0026 u (ppm)	46.67	-0.0026 (ppm)	0.4712
3/15/2018 11:58:36	R1801851-002 10X	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	3.8432
3/15/2018 11:58:36	R1801851-002 10X	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.2376
3/15/2018 11:58:36	R1801851-002 10X	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-1.2145
3/15/2018 11:58:36	R1801851-002 10X	Sr (216.596 nm)	1.4480 (ppm)	1.86	1.4480 (ppm)	17905.4941
3/15/2018 11:58:36	R1801851-002 10X	Ti (336.122 nm)	0.0023 (ppm)	0.94	0.0023 (ppm)	-247.2246
3/15/2018 11:58:36	R1801851-002 10X	Tl (351.923 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	14.5260
3/15/2018 11:58:36	R1801851-002 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	134.9793
3/15/2018 11:58:36	R1801851-002 10X	Y (360.074 nm)	1.03 (Ratio)	1.83	1.03 (Ratio)	728137.45
3/15/2018 11:58:36	R1801851-002 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.83	1.04 (Ratio)	727786.50
3/15/2018 11:58:36	R1801851-002 10X	Zn (213.857 nm)	0.0050 (ppm)	2.56	0.0050 (ppm)	121.8528
3/15/2018 12:01:56	Continuing Calibration Verification	Ag (328.068 nm)	0.4825 (ppm)	0.11	0.4825 (ppm)	27951.8388
3/15/2018 12:01:56	Continuing Calibration Verification	Al (394.401 nm)	9.6489 (ppm)	0.07	9.6489 (ppm)	95834.8472
3/15/2018 12:01:56	Continuing Calibration Verification	As (188.980 nm)	0.9817 (ppm)	0.72	0.9817 (ppm)	812.1108
3/15/2018 12:01:56	Continuing Calibration Verification	B (249.772 nm)	2.4512 (ppm)	0.07	2.4512 (ppm)	61375.5156
3/15/2018 12:01:56	Continuing Calibration Verification	Ba (230.424 nm)	10.1544 (ppm)	0.25	10.1544 (ppm)	284326.6132
3/15/2018 12:01:56	Continuing Calibration Verification	Be (313.107 nm)	0.2540 (ppm)	0.07	0.2540 (ppm)	314064.7764
3/15/2018 12:01:56	Continuing Calibration Verification	Ca (227.547 nm)	24.2517 (ppm)	0.17	24.2517 (ppm)	1075.3754
3/15/2018 12:01:56	Continuing Calibration Verification	Cd (214.439 nm)	0.4975 (ppm)	0.16	0.4975 (ppm)	9959.6585
3/15/2018 12:01:56	Continuing Calibration Verification	Co (230.786 nm)	2.5427 (ppm)	0.15	2.5427 (ppm)	22485.4360
3/15/2018 12:01:56	Continuing Calibration Verification	Cr (267.716 nm)	0.5245 (ppm)	0.12	0.5245 (ppm)	20934.0084
3/15/2018 12:01:56	Continuing Calibration Verification	Cu (327.395 nm)	1.2327 (ppm)	0.09	1.2327 (ppm)	57981.0453
3/15/2018 12:01:56	Continuing Calibration Verification	Fe (234.350 nm)	4.9582 (ppm)	0.10	4.9582 (ppm)	46702.9887
3/15/2018 12:01:56	Continuing Calibration Verification	K (766.491 nm)	25.1946 (ppm)	0.14	25.1946 (ppm)	54992.7274
3/15/2018 12:01:56	Continuing Calibration Verification	Mg (279.078 nm)	24.6467 (ppm)	0.12	24.6467 (ppm)	43599.1902
3/15/2018 12:01:56	Continuing Calibration Verification	Mn (257.610 nm)	0.7675 (ppm)	0.10	0.7675 (ppm)	200244.2144
3/15/2018 12:01:56	Continuing Calibration Verification	Mo (202.032 nm)	2.4838 (ppm)	0.14	2.4838 (ppm)	20959.9738
3/15/2018 12:01:56	Continuing Calibration Verification	Na (588.995 nm)	25.7288 (ppm)	0.46	25.7288 (ppm)	791796.0350
3/15/2018 12:01:56	Continuing Calibration Verification	Ni (230.299 nm)	2.0347 (ppm)	0.02	2.0347 (ppm)	12330.6755
3/15/2018 12:01:56	Continuing Calibration Verification	Pb (220.353 nm)	0.5033 (ppm)	0.58	0.5033 (ppm)	985.1913
3/15/2018 12:01:56	Continuing Calibration Verification	Sb (217.582 nm)	5.0004 (ppm)	0.20	5.0004 (ppm)	6075.2125
3/15/2018 12:01:56	Continuing Calibration Verification	Se (196.026 nm)	0.5045 (ppm)	0.47	0.5045 (ppm)	418.5741
3/15/2018 12:01:56	Continuing Calibration Verification	Sn (189.925 nm)	4.9258 (ppm)	0.10	4.9258 (ppm)	5440.1508
3/15/2018 12:01:56	Continuing Calibration Verification	Sr (216.596 nm)	2.5042 (ppm)	0.31	2.5042 (ppm)	30968.0438
3/15/2018 12:01:56	Continuing Calibration Verification	Ti (336.122 nm)	2.4872 (ppm)	0.10	2.4872 (ppm)	403329.1920
3/15/2018 12:01:56	Continuing Calibration Verification	Tl (351.923 nm)	1.0114 (ppm)	0.21	1.0114 (ppm)	2185.0792
3/15/2018 12:01:56	Continuing Calibration Verification	V (292.401 nm)	2.5120 (ppm)	0.07	2.5120 (ppm)	73218.4592
3/15/2018 12:01:56	Continuing Calibration Verification	Y (360.074 nm)	1.03 (Ratio)	0.62	1.03 (Ratio)	728518.81
3/15/2018 12:01:56	Continuing Calibration Verification	Y_R (360.074 nm)	1.04 (Ratio)	0.62	1.04 (Ratio)	728080.69
3/15/2018 12:01:56	Continuing Calibration Verification	Zn (213.857 nm)	0.9530 (ppm)	0.07	0.9530 (ppm)	25850.3179
3/15/2018 12:05:16	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	31.37	-0.0001 (ppm)	-104.0304
3/15/2018 12:05:16	Continuing Calibration Blank	Al (394.401 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	141.8722
3/15/2018 12:05:16	Continuing Calibration Blank	As (188.980 nm)	0.0024 (ppm)	36.28	0.0024 (ppm)	-2.6655

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:05:16	Continuing Calibration Blank	B (249.772 nm)	-0.0005 u (ppm)	9.27	-0.0005 (ppm)	118.3259
3/15/2018 12:05:16	Continuing Calibration Blank	Ba (230.424 nm)	0.0019 (ppm)	2.64	0.0019 (ppm)	59.5854
3/15/2018 12:05:16	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	4.17	0.0001 (ppm)	-489.0557
3/15/2018 12:05:16	Continuing Calibration Blank	Ca (227.547 nm)	0.0418 (ppm)	62.39	0.0418 (ppm)	6.3466
3/15/2018 12:05:16	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	16.3375
3/15/2018 12:05:16	Continuing Calibration Blank	Co (230.786 nm)	0.0004 (ppm)	19.48	0.0004 (ppm)	-1.6800
3/15/2018 12:05:16	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	2.9230
3/15/2018 12:05:16	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	20.0121
3/15/2018 12:05:16	Continuing Calibration Blank	Fe (234.350 nm)	0.0015 (ppm)	10.74	0.0015 (ppm)	31.4052
3/15/2018 12:05:16	Continuing Calibration Blank	K (766.491 nm)	0.0249 (ppm)	23.53	0.0249 (ppm)	43.9466
3/15/2018 12:05:16	Continuing Calibration Blank	Mg (279.078 nm)	0.0040 (ppm)	39.34	0.0040 (ppm)	0.9338
3/15/2018 12:05:16	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	11.27	0.0001 (ppm)	51.1323
3/15/2018 12:05:16	Continuing Calibration Blank	Mo (202.032 nm)	0.0020 (ppm)	10.78	0.0020 (ppm)	23.0438
3/15/2018 12:05:16	Continuing Calibration Blank	Na (588.995 nm)	0.0432 (ppm)	1.54	0.0432 (ppm)	-7613.5361
3/15/2018 12:05:16	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-17.5989
3/15/2018 12:05:16	Continuing Calibration Blank	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.3179
3/15/2018 12:05:16	Continuing Calibration Blank	Sb (217.582 nm)	0.0016 (ppm)	54.82	0.0016 (ppm)	4.4092
3/15/2018 12:05:16	Continuing Calibration Blank	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-0.9327
3/15/2018 12:05:16	Continuing Calibration Blank	Sn (189.925 nm)	0.0036 (ppm)	21.13	0.0036 (ppm)	2.1795
3/15/2018 12:05:16	Continuing Calibration Blank	Sr (216.596 nm)	0.0005 (ppm)	34.95	0.0005 (ppm)	3.8222
3/15/2018 12:05:16	Continuing Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	8.31	0.0012 (ppm)	-436.1994
3/15/2018 12:05:16	Continuing Calibration Blank	Ti (351.923 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	12.4633
3/15/2018 12:05:16	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	65.12	0.0004 (ppm)	142.3148
3/15/2018 12:05:16	Continuing Calibration Blank	Y (360.074 nm)	1.06 (Ratio)	0.75	1.06 (Ratio)	746394.83
3/15/2018 12:05:16	Continuing Calibration Blank	Y_R (360.074 nm)	1.06 (Ratio)	0.75	1.06 (Ratio)	745749.49
3/15/2018 12:05:16	Continuing Calibration Blank	Zn (213.857 nm)	-0.0003 u (ppm)	20.22	-0.0003 (ppm)	-21.8582
3/15/2018 12:08:35	Contract Required Detection Limit	Ag (328.068 nm)	0.0096 (ppm)	0.92	0.0096 (ppm)	464.9394
3/15/2018 12:08:35	Contract Required Detection Limit	Al (394.401 nm)	0.1753 (ppm)	0.55	0.1753 (ppm)	1886.9404
3/15/2018 12:08:35	Contract Required Detection Limit	As (188.980 nm)	0.0232 (ppm)	9.58	0.0232 (ppm)	14.6018
3/15/2018 12:08:35	Contract Required Detection Limit	B (249.772 nm)	0.1967 (ppm)	0.37	0.1967 (ppm)	5044.3432
3/15/2018 12:08:35	Contract Required Detection Limit	Ba (230.424 nm)	0.2064 (ppm)	0.39	0.2064 (ppm)	5785.2302
3/15/2018 12:08:35	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.17	0.0050 (ppm)	5660.1621
3/15/2018 12:08:35	Contract Required Detection Limit	Ca (227.547 nm)	0.9731 (ppm)	11.00	0.9731 (ppm)	47.4685
3/15/2018 12:08:35	Contract Required Detection Limit	Cd (214.439 nm)	0.0099 (ppm)	1.23	0.0099 (ppm)	212.8957
3/15/2018 12:08:35	Contract Required Detection Limit	Co (230.786 nm)	0.0502 (ppm)	1.30	0.0502 (ppm)	439.1310
3/15/2018 12:08:35	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	1.53	0.0102 (ppm)	407.7696
3/15/2018 12:08:35	Contract Required Detection Limit	Cu (327.395 nm)	0.0245 (ppm)	0.74	0.0245 (ppm)	1165.1229
3/15/2018 12:08:35	Contract Required Detection Limit	Fe (234.350 nm)	0.1037 (ppm)	0.41	0.1037 (ppm)	993.9687
3/15/2018 12:08:35	Contract Required Detection Limit	K (766.491 nm)	0.9694 (ppm)	0.49	0.9694 (ppm)	2106.0831
3/15/2018 12:08:35	Contract Required Detection Limit	Mg (279.078 nm)	0.9932 (ppm)	0.53	0.9932 (ppm)	1751.0761
3/15/2018 12:08:35	Contract Required Detection Limit	Mn (257.610 nm)	0.0155 (ppm)	0.16	0.0155 (ppm)	4055.9513
3/15/2018 12:08:35	Contract Required Detection Limit	Mo (202.032 nm)	0.0248 (ppm)	1.09	0.0248 (ppm)	215.4850
3/15/2018 12:08:35	Contract Required Detection Limit	Na (588.995 nm)	1.0927 (ppm)	0.51	1.0927 (ppm)	25050.4526
3/15/2018 12:08:35	Contract Required Detection Limit	Ni (230.299 nm)	0.0414 (ppm)	0.07	0.0414 (ppm)	232.7899
3/15/2018 12:08:35	Contract Required Detection Limit	Pb (220.353 nm)	0.0090 (ppm)	14.91	0.0090 (ppm)	23.0486
3/15/2018 12:08:35	Contract Required Detection Limit	Sb (217.582 nm)	0.0600 (ppm)	1.27	0.0600 (ppm)	75.3558
3/15/2018 12:08:35	Contract Required Detection Limit	Se (196.026 nm)	0.0117 (ppm)	9.08	0.0117 (ppm)	7.6127
3/15/2018 12:08:35	Contract Required Detection Limit	Sn (189.925 nm)	0.4960 (ppm)	0.72	0.4960 (ppm)	546.1391
3/15/2018 12:08:35	Contract Required Detection Limit	Sr (216.596 nm)	0.1003 (ppm)	0.54	0.1003 (ppm)	1237.8897
3/15/2018 12:08:35	Contract Required Detection Limit	Ti (336.122 nm)	0.0509 (ppm)	0.10	0.0509 (ppm)	7646.6432
3/15/2018 12:08:35	Contract Required Detection Limit	Ti (351.923 nm)	0.0164 (ppm)	25.01	0.0164 (ppm)	43.5847

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:08:35	Contract Required Detection Limit	V (292.401 nm)	0.0489 (ppm)	0.28	0.0489 (ppm)	1555.7517
3/15/2018 12:08:35	Contract Required Detection Limit	Y (360.074 nm)	1.07 (Ratio)	0.51	1.07 (Ratio)	751616.88
3/15/2018 12:08:35	Contract Required Detection Limit	Y_R (360.074 nm)	1.07 (Ratio)	0.52	1.07 (Ratio)	751000.76
3/15/2018 12:08:35	Contract Required Detection Limit	Zn (213.857 nm)	0.0190 (ppm)	1.02	0.0190 (ppm)	502.7752
3/15/2018 12:11:54	Interference Check Solution A	Ag (328.068 nm)	-0.0003 u (ppm)	4.45	-0.0003 (ppm)	-114.9029
3/15/2018 12:11:54	Interference Check Solution A	Al (394.401 nm)	278.5016 o (ppm)	6.37	278.5016 (ppm)	2761995.5637
3/15/2018 12:11:54	Interference Check Solution A	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-3.8847
3/15/2018 12:11:54	Interference Check Solution A	B (249.772 nm)	0.0439 (ppm)	7.77	0.0439 (ppm)	1226.7983
3/15/2018 12:11:54	Interference Check Solution A	Ba (230.424 nm)	0.0001 (ppm)	73.25	0.0001 (ppm)	10.0447
3/15/2018 12:11:54	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	72.86	0.0000 (ppm)	-635.9918
3/15/2018 12:11:54	Interference Check Solution A	Ca (227.547 nm)	278.6042 o (ppm)	6.31	278.6042 (ppm)	12306.7481
3/15/2018 12:11:54	Interference Check Solution A	Cd (214.439 nm)	-0.0013 Ku (ppm)	8.99	-0.0013 (ppm)	-11.0414 K
3/15/2018 12:11:54	Interference Check Solution A	Co (230.786 nm)	-0.0024 u (ppm)	33.84	-0.0024 (ppm)	-26.3601
3/15/2018 12:11:54	Interference Check Solution A	Cr (267.716 nm)	0.0003 (ppm)	42.39	0.0003 (ppm)	14.4225
3/15/2018 12:11:54	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	39.19	0.0007 (ppm)	48.1276
3/15/2018 12:11:54	Interference Check Solution A	Fe (234.350 nm)	96.6598 o (ppm)	6.49	96.6598 (ppm)	910151.2138
3/15/2018 12:11:54	Interference Check Solution A	K (766.491 nm)	0.0052 u (ppm)	> 100.00	0.0052 (ppm)	1.0579
3/15/2018 12:11:54	Interference Check Solution A	Mg (279.078 nm)	274.0415 o (ppm)	6.38	274.0415 (ppm)	484833.3526
3/15/2018 12:11:54	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	7.99	0.0017 (ppm)	454.2881
3/15/2018 12:11:54	Interference Check Solution A	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.0556
3/15/2018 12:11:54	Interference Check Solution A	Na (588.995 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-8903.9107
3/15/2018 12:11:54	Interference Check Solution A	Ni (230.299 nm)	-0.0029 u (ppm)	40.18	-0.0029 (ppm)	-36.3633
3/15/2018 12:11:54	Interference Check Solution A	Pb (220.353 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	1.0057
3/15/2018 12:11:54	Interference Check Solution A	Sb (217.582 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	-1.3536
3/15/2018 12:11:54	Interference Check Solution A	Se (196.026 nm)	-0.0047 u (ppm)	> 100.00	-0.0047 (ppm)	-5.9843
3/15/2018 12:11:54	Interference Check Solution A	Sn (189.925 nm)	0.0013 (ppm)	59.82	0.0013 (ppm)	-0.3588
3/15/2018 12:11:54	Interference Check Solution A	Sr (216.596 nm)	0.0194 (ppm)	6.81	0.0194 (ppm)	237.5885
3/15/2018 12:11:54	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	10.18	0.0018 (ppm)	-332.8449
3/15/2018 12:11:54	Interference Check Solution A	Tl (351.923 nm)	0.0028 u (ppm)	> 100.00	0.0028 (ppm)	14.3699
3/15/2018 12:11:54	Interference Check Solution A	V (292.401 nm)	0.0036 K (ppm)	16.70	0.0036 (ppm)	237.4647 K
3/15/2018 12:11:54	Interference Check Solution A	Y (360.074 nm)	0.93 (Ratio)	6.02	0.93 (Ratio)	655099.21
3/15/2018 12:11:54	Interference Check Solution A	Y_R (360.074 nm)	0.93 (Ratio)	6.03	0.93 (Ratio)	655011.85
3/15/2018 12:11:54	Interference Check Solution A	Zn (213.857 nm)	0.0096 (ppm)	6.68	0.0096 (ppm)	247.6293
3/15/2018 12:15:14	Interference Check Solution AB	Ag (328.068 nm)	0.2154 (ppm)	0.19	0.2154 (ppm)	12427.5712
3/15/2018 12:15:14	Interference Check Solution AB	Al (394.401 nm)	267.9296 o (ppm)	0.18	267.9296 (ppm)	2657154.8842
3/15/2018 12:15:14	Interference Check Solution AB	As (188.980 nm)	0.1056 (ppm)	1.92	0.1056 (ppm)	83.2112
3/15/2018 12:15:14	Interference Check Solution AB	B (249.772 nm)	0.0433 (ppm)	0.71	0.0433 (ppm)	1212.4176
3/15/2018 12:15:14	Interference Check Solution AB	Ba (230.424 nm)	0.5211 (ppm)	0.31	0.5211 (ppm)	14597.4350
3/15/2018 12:15:14	Interference Check Solution AB	Be (313.107 nm)	0.5131 (ppm)	0.19	0.5131 (ppm)	634999.2273
3/15/2018 12:15:14	Interference Check Solution AB	Ca (227.547 nm)	268.2556 o (ppm)	0.14	268.2556 (ppm)	11849.7894
3/15/2018 12:15:14	Interference Check Solution AB	Cd (214.439 nm)	0.9575 (ppm)	0.08	0.9575 (ppm)	19156.5327
3/15/2018 12:15:14	Interference Check Solution AB	Co (230.786 nm)	0.4930 (ppm)	0.10	0.4930 (ppm)	4355.7701
3/15/2018 12:15:14	Interference Check Solution AB	Cr (267.716 nm)	0.5171 (ppm)	0.15	0.5171 (ppm)	20639.0966
3/15/2018 12:15:14	Interference Check Solution AB	Cu (327.395 nm)	0.5472 (ppm)	0.25	0.5472 (ppm)	25745.0333
3/15/2018 12:15:14	Interference Check Solution AB	Fe (234.350 nm)	93.1681 o (ppm)	0.18	93.1681 (ppm)	877273.7092
3/15/2018 12:15:14	Interference Check Solution AB	K (766.491 nm)	0.0115 (ppm)	62.44	0.0115 (ppm)	14.7171
3/15/2018 12:15:14	Interference Check Solution AB	Mg (279.078 nm)	263.9386 o (ppm)	0.06	263.9386 (ppm)	466959.2029
3/15/2018 12:15:14	Interference Check Solution AB	Mn (257.610 nm)	0.5082 (ppm)	0.17	0.5082 (ppm)	132608.3476
3/15/2018 12:15:14	Interference Check Solution AB	Mo (202.032 nm)	-0.0003 u (ppm)	64.50	-0.0003 (ppm)	3.2948
3/15/2018 12:15:14	Interference Check Solution AB	Na (588.995 nm)	0.0143 (ppm)	12.55	0.0143 (ppm)	-8512.9853
3/15/2018 12:15:14	Interference Check Solution AB	Ni (230.299 nm)	0.9646 (ppm)	0.03	0.9646 (ppm)	5836.0884

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:15:14	Interference Check Solution AB	Pb (220.353 nm)	0.0485 (ppm)	3.46	0.0485 (ppm)	99.9851
3/15/2018 12:15:14	Interference Check Solution AB	Sb (217.582 nm)	0.6093 (ppm)	1.05	0.6093 (ppm)	742.4062
3/15/2018 12:15:14	Interference Check Solution AB	Se (196.026 nm)	0.0510 (ppm)	8.45	0.0510 (ppm)	40.3807
3/15/2018 12:15:14	Interference Check Solution AB	Sn (189.925 nm)	0.0026 (ppm)	13.45	0.0026 (ppm)	0.8947
3/15/2018 12:15:14	Interference Check Solution AB	Sr (216.596 nm)	0.0195 (ppm)	1.83	0.0195 (ppm)	239.2028
3/15/2018 12:15:14	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	3.54	0.0017 (ppm)	-347.5029
3/15/2018 12:15:14	Interference Check Solution AB	Tl (351.923 nm)	0.1132 (ppm)	2.47	0.1132 (ppm)	252.0575
3/15/2018 12:15:14	Interference Check Solution AB	V (292.401 nm)	0.5107 (ppm)	0.15	0.5107 (ppm)	14989.7271
3/15/2018 12:15:14	Interference Check Solution AB	Y (360.074 nm)	0.96 (Ratio)	0.67	0.96 (Ratio)	679009.40
3/15/2018 12:15:14	Interference Check Solution AB	Y_R (360.074 nm)	0.97 (Ratio)	0.67	0.97 (Ratio)	678913.27
3/15/2018 12:15:14	Interference Check Solution AB	Zn (213.857 nm)	0.9748 (ppm)	0.20	0.9748 (ppm)	26442.1239
3/15/2018 12:18:33	HLCCV2	Ag (328.068 nm)	2.1496 o (ppm)	0.07	2.1496 (ppm)	124866.7067
3/15/2018 12:18:33	HLCCV2	Al (394.401 nm)	551.8019 Qo (ppm)	0.27	551.8019 (ppm)	5472262.8699 Q
3/15/2018 12:18:33	HLCCV2	As (188.980 nm)	3.9859 o (ppm)	0.39	3.9859 (ppm)	3311.7959
3/15/2018 12:18:33	HLCCV2	B (249.772 nm)	10.4124 o (ppm)	0.09	10.4124 (ppm)	260291.2652
3/15/2018 12:18:33	HLCCV2	Ba (230.424 nm)	38.2398 o (ppm)	0.36	38.2398 (ppm)	1070708.0521
3/15/2018 12:18:33	HLCCV2	Be (313.107 nm)	0.9825 o (ppm)	0.42	0.9825 (ppm)	1216605.0332
3/15/2018 12:18:33	HLCCV2	Ca (227.547 nm)	278.9235 Qo (ppm)	0.02	278.9235 (ppm)	12320.8510 Q
3/15/2018 12:18:33	HLCCV2	Cd (214.439 nm)	1.8298 o (ppm)	0.05	1.8298 (ppm)	36594.1184
3/15/2018 12:18:33	HLCCV2	Co (230.786 nm)	9.2031 o (ppm)	0.13	9.2031 (ppm)	81396.6054
3/15/2018 12:18:33	HLCCV2	Cr (267.716 nm)	9.9115 o (ppm)	0.07	9.9115 (ppm)	395558.8577
3/15/2018 12:18:33	HLCCV2	Cu (327.395 nm)	5.6519 Qo (ppm)	0.14	5.6519 (ppm)	265785.5223 Q
3/15/2018 12:18:33	HLCCV2	Fe (234.350 nm)	47.0965 o (ppm)	0.05	47.0965 (ppm)	443470.3991
3/15/2018 12:18:33	HLCCV2	K (766.491 nm)	169.2325 Qo (ppm)	0.16	169.2325 (ppm)	369445.6897 Q
3/15/2018 12:18:33	HLCCV2	Mg (279.078 nm)	515.3301 o (ppm)	0.12	515.3301 (ppm)	911725.9757
3/15/2018 12:18:33	HLCCV2	Mn (257.610 nm)	9.6024 o (ppm)	0.07	9.6024 (ppm)	2505090.6016
3/15/2018 12:18:33	HLCCV2	Mo (202.032 nm)	9.7091 o (ppm)	0.06	9.7091 (ppm)	81915.8848
3/15/2018 12:18:33	HLCCV2	Na (588.995 nm)	160.9262 o (ppm)	0.22	160.9262 (ppm)	4999528.3622
3/15/2018 12:18:33	HLCCV2	Ni (230.299 nm)	7.3668 o (ppm)	0.15	7.3668 (ppm)	44693.4461
3/15/2018 12:18:33	HLCCV2	Pb (220.353 nm)	9.6622 o (ppm)	0.10	9.6622 (ppm)	18811.0209
3/15/2018 12:18:33	HLCCV2	Sb (217.582 nm)	0.0305 (ppm)	11.38	0.0305 (ppm)	39.5463
3/15/2018 12:18:33	HLCCV2	Se (196.026 nm)	2.0300 o (ppm)	0.26	2.0300 (ppm)	1690.4867
3/15/2018 12:18:33	HLCCV2	Sn (189.925 nm)	-0.0153 u (ppm)	23.25	-0.0153 (ppm)	-18.7401
3/15/2018 12:18:33	HLCCV2	Sr (216.596 nm)	9.4542 o (ppm)	1.18	9.4542 (ppm)	116923.5969
3/15/2018 12:18:33	HLCCV2	Ti (336.122 nm)	9.9391 o (ppm)	0.03	9.9391 (ppm)	1613639.7707
3/15/2018 12:18:33	HLCCV2	Tl (351.923 nm)	4.5070 Qo (ppm)	0.12	4.5070 (ppm)	9708.2182 Q
3/15/2018 12:18:33	HLCCV2	V (292.401 nm)	9.8158 o (ppm)	0.14	9.8158 (ppm)	285728.5052
3/15/2018 12:18:33	HLCCV2	Y (360.074 nm)	0.92 (Ratio)	0.49	0.92 (Ratio)	652015.59
3/15/2018 12:18:33	HLCCV2	Y_R (360.074 nm)	0.93 (Ratio)	0.50	0.93 (Ratio)	652065.95
3/15/2018 12:18:33	HLCCV2	Zn (213.857 nm)	3.7997 o (ppm)	0.24	3.7997 (ppm)	103114.2845
3/15/2018 12:21:53	HLCCV3	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-98.5861
3/15/2018 12:21:53	HLCCV3	Al (394.401 nm)	0.0901 (ppm)	26.78	0.0901 (ppm)	1041.6007
3/15/2018 12:21:53	HLCCV3	As (188.980 nm)	0.0103 (ppm)	8.00	0.0103 (ppm)	3.9188
3/15/2018 12:21:53	HLCCV3	B (249.772 nm)	0.0256 (ppm)	2.61	0.0256 (ppm)	769.2618
3/15/2018 12:21:53	HLCCV3	Ba (230.424 nm)	0.0050 (ppm)	33.49	0.0050 (ppm)	145.1260
3/15/2018 12:21:53	HLCCV3	Be (313.107 nm)	0.0001 (ppm)	30.84	0.0001 (ppm)	-395.4053
3/15/2018 12:21:53	HLCCV3	Ca (227.547 nm)	202.8529 o (ppm)	0.34	202.8529 (ppm)	8961.8201
3/15/2018 12:21:53	HLCCV3	Cd (214.439 nm)	0.0006 (ppm)	47.82	0.0006 (ppm)	26.2370
3/15/2018 12:21:53	HLCCV3	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-7.1656
3/15/2018 12:21:53	HLCCV3	Cr (267.716 nm)	0.0010 (ppm)	56.47	0.0010 (ppm)	41.7535
3/15/2018 12:21:53	HLCCV3	Cu (327.395 nm)	4.1939 o (ppm)	0.88	4.1939 (ppm)	197227.7339

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:21:53	HLCCV3	Fe (234.350 nm)	38.4834 o (ppm)	0.27	38.4834 (ppm)	362370.7576
3/15/2018 12:21:53	HLCCV3	K (766.491 nm)	101.3868 o (ppm)	0.55	101.3868 (ppm)	221329.9333
3/15/2018 12:21:53	HLCCV3	Mg (279.078 nm)	0.0551 (ppm)	41.57	0.0551 (ppm)	91.2074
3/15/2018 12:21:53	HLCCV3	Mn (257.610 nm)	0.0013 (ppm)	31.62	0.0013 (ppm)	364.3987
3/15/2018 12:21:53	HLCCV3	Mo (202.032 nm)	0.0059 (ppm)	10.71	0.0059 (ppm)	56.1233
3/15/2018 12:21:53	HLCCV3	Na (588.995 nm)	0.0495 (ppm)	12.90	0.0495 (ppm)	-7416.1913
3/15/2018 12:21:53	HLCCV3	Ni (230.299 nm)	-0.0271 u (ppm)	3.57	-0.0271 (ppm)	-182.9696
3/15/2018 12:21:53	HLCCV3	Pb (220.353 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	7.0878
3/15/2018 12:21:53	HLCCV3	Sb (217.582 nm)	0.0040 (ppm)	36.48	0.0040 (ppm)	7.3932
3/15/2018 12:21:53	HLCCV3	Se (196.026 nm)	-0.0039 u (ppm)	77.67	-0.0039 (ppm)	-5.3696
3/15/2018 12:21:53	HLCCV3	Sn (189.925 nm)	0.0010 (ppm)	34.93	0.0010 (ppm)	-0.6955
3/15/2018 12:21:53	HLCCV3	Sr (216.596 nm)	0.0065 (ppm)	10.01	0.0065 (ppm)	78.1835
3/15/2018 12:21:53	HLCCV3	Ti (336.122 nm)	0.0044 (ppm)	12.76	0.0044 (ppm)	89.8410
3/15/2018 12:21:53	HLCCV3	Tl (351.923 nm)	2.9659 o (ppm)	0.27	2.9659 (ppm)	6391.4407
3/15/2018 12:21:53	HLCCV3	V (292.401 nm)	0.0028 (ppm)	21.70	0.0028 (ppm)	213.1307
3/15/2018 12:21:53	HLCCV3	Y (360.074 nm)	1.01 (Ratio)	0.60	1.01 (Ratio)	714452.90
3/15/2018 12:21:53	HLCCV3	Y_R (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	714278.20
3/15/2018 12:21:53	HLCCV3	Zn (213.857 nm)	0.0074 (ppm)	2.28	0.0074 (ppm)	186.4677
3/15/2018 12:25:12	HLCCV1	Ag (328.068 nm)	0.9941 (ppm)	0.13	0.9941 (ppm)	57694.1447
3/15/2018 12:25:12	HLCCV1	Al (394.401 nm)	20.0165 (ppm)	0.21	20.0165 (ppm)	198648.2625
3/15/2018 12:25:12	HLCCV1	As (188.980 nm)	1.9578 (ppm)	0.48	1.9578 (ppm)	1624.3115
3/15/2018 12:25:12	HLCCV1	B (249.772 nm)	4.9608 (ppm)	0.14	4.9608 (ppm)	124078.4083
3/15/2018 12:25:12	HLCCV1	Ba (230.424 nm)	19.6308 (ppm)	0.57	19.6308 (ppm)	549663.1193
3/15/2018 12:25:12	HLCCV1	Be (313.107 nm)	0.5024 (ppm)	0.26	0.5024 (ppm)	621799.6239
3/15/2018 12:25:12	HLCCV1	Ca (227.547 nm)	49.8531 (ppm)	0.10	49.8531 (ppm)	2205.8532
3/15/2018 12:25:12	HLCCV1	Cd (214.439 nm)	0.9688 (ppm)	0.17	0.9688 (ppm)	19382.0727
3/15/2018 12:25:12	HLCCV1	Co (230.786 nm)	4.8983 (ppm)	0.27	4.8983 (ppm)	43320.1911
3/15/2018 12:25:12	HLCCV1	Cr (267.716 nm)	1.0035 (ppm)	0.33	1.0035 (ppm)	40051.0564
3/15/2018 12:25:12	HLCCV1	Cu (327.395 nm)	2.5146 (ppm)	0.19	2.5146 (ppm)	118258.8796
3/15/2018 12:25:12	HLCCV1	Fe (234.350 nm)	9.8346 (ppm)	0.22	9.8346 (ppm)	92618.5741
3/15/2018 12:25:12	HLCCV1	K (766.491 nm)	51.0325 (ppm)	0.15	51.0325 (ppm)	111400.1357
3/15/2018 12:25:12	HLCCV1	Mg (279.078 nm)	49.3010 (ppm)	0.20	49.3010 (ppm)	87218.1320
3/15/2018 12:25:12	HLCCV1	Mn (257.610 nm)	1.4947 (ppm)	0.25	1.4947 (ppm)	389942.8440
3/15/2018 12:25:12	HLCCV1	Mo (202.032 nm)	4.9570 (ppm)	0.25	4.9570 (ppm)	41825.0984
3/15/2018 12:25:12	HLCCV1	Na (588.995 nm)	51.8612 (ppm)	0.12	51.8612 (ppm)	1605113.4771
3/15/2018 12:25:12	HLCCV1	Ni (230.299 nm)	3.9261 (ppm)	0.23	3.9261 (ppm)	23810.7503
3/15/2018 12:25:12	HLCCV1	Pb (220.353 nm)	0.9800 (ppm)	0.33	0.9800 (ppm)	1912.9173
3/15/2018 12:25:12	HLCCV1	Sb (217.582 nm)	9.8239 (ppm)	0.16	9.8239 (ppm)	11932.9998
3/15/2018 12:25:12	HLCCV1	Se (196.026 nm)	0.9962 (ppm)	0.39	0.9962 (ppm)	828.5440
3/15/2018 12:25:12	HLCCV1	Sn (189.925 nm)	9.6414 (ppm)	0.35	9.6414 (ppm)	10649.9400
3/15/2018 12:25:12	HLCCV1	Sr (216.596 nm)	4.9462 (ppm)	0.35	4.9462 (ppm)	61170.5121
3/15/2018 12:25:12	HLCCV1	Ti (336.122 nm)	4.9593 (ppm)	0.25	4.9593 (ppm)	804844.8953
3/15/2018 12:25:12	HLCCV1	Tl (351.923 nm)	2.0012 (ppm)	0.32	2.0012 (ppm)	4315.2224
3/15/2018 12:25:12	HLCCV1	V (292.401 nm)	4.9780 (ppm)	0.31	4.9780 (ppm)	144969.6223
3/15/2018 12:25:12	HLCCV1	Y (360.074 nm)	1.02 (Ratio)	0.35	1.02 (Ratio)	721313.20
3/15/2018 12:25:12	HLCCV1	Y_R (360.074 nm)	1.03 (Ratio)	0.35	1.03 (Ratio)	721117.41
3/15/2018 12:25:12	HLCCV1	Zn (213.857 nm)	1.9567 (ppm)	0.29	1.9567 (ppm)	53093.1018
3/15/2018 12:28:31	Continuing Calibration Verification	Ag (328.068 nm)	0.4827 (ppm)	0.07	0.4827 (ppm)	27963.4519
3/15/2018 12:28:31	Continuing Calibration Verification	Al (394.401 nm)	9.6850 (ppm)	0.12	9.6850 (ppm)	96192.7971
3/15/2018 12:28:31	Continuing Calibration Verification	As (188.980 nm)	0.9878 (ppm)	1.15	0.9878 (ppm)	817.1983
3/15/2018 12:28:31	Continuing Calibration Verification	B (249.772 nm)	2.4578 (ppm)	0.11	2.4578 (ppm)	61539.7952

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:28:31	Continuing Calibration Verification	Ba (230.424 nm)	10.1938 (ppm)	0.26	10.1938 (ppm)	285427.9241
3/15/2018 12:28:31	Continuing Calibration Verification	Be (313.107 nm)	0.2554 (ppm)	0.03	0.2554 (ppm)	315840.0895
3/15/2018 12:28:31	Continuing Calibration Verification	Ca (227.547 nm)	24.3095 (ppm)	0.57	24.3095 (ppm)	1077.9308
3/15/2018 12:28:31	Continuing Calibration Verification	Cd (214.439 nm)	0.4984 (ppm)	0.11	0.4984 (ppm)	9977.9500
3/15/2018 12:28:31	Continuing Calibration Verification	Co (230.786 nm)	2.5492 (ppm)	0.07	2.5492 (ppm)	22542.4120
3/15/2018 12:28:31	Continuing Calibration Verification	Cr (267.716 nm)	0.5268 (ppm)	0.07	0.5268 (ppm)	21024.8312
3/15/2018 12:28:31	Continuing Calibration Verification	Cu (327.395 nm)	1.2339 (ppm)	0.11	1.2339 (ppm)	58035.4961
3/15/2018 12:28:31	Continuing Calibration Verification	Fe (234.350 nm)	4.9808 (ppm)	0.07	4.9808 (ppm)	46916.0673
3/15/2018 12:28:31	Continuing Calibration Verification	K (766.491 nm)	25.3060 (ppm)	0.34	25.3060 (ppm)	55235.8405
3/15/2018 12:28:31	Continuing Calibration Verification	Mg (279.078 nm)	24.7023 (ppm)	0.04	24.7023 (ppm)	43697.6113
3/15/2018 12:28:31	Continuing Calibration Verification	Mn (257.610 nm)	0.7713 (ppm)	0.12	0.7713 (ppm)	201221.7935
3/15/2018 12:28:31	Continuing Calibration Verification	Mo (202.032 nm)	2.4977 (ppm)	0.16	2.4977 (ppm)	21077.8260
3/15/2018 12:28:31	Continuing Calibration Verification	Na (588.995 nm)	25.7719 (ppm)	0.28	25.7719 (ppm)	793137.3141
3/15/2018 12:28:31	Continuing Calibration Verification	Ni (230.299 nm)	2.0407 (ppm)	0.01	2.0407 (ppm)	12367.3055
3/15/2018 12:28:31	Continuing Calibration Verification	Pb (220.353 nm)	0.5003 (ppm)	0.32	0.5003 (ppm)	979.4421
3/15/2018 12:28:31	Continuing Calibration Verification	Sb (217.582 nm)	5.0088 (ppm)	0.04	5.0088 (ppm)	6085.3632
3/15/2018 12:28:31	Continuing Calibration Verification	Se (196.026 nm)	0.5007 (ppm)	0.75	0.5007 (ppm)	415.3828
3/15/2018 12:28:31	Continuing Calibration Verification	Sn (189.925 nm)	4.9557 (ppm)	0.61	4.9557 (ppm)	5473.1806
3/15/2018 12:28:31	Continuing Calibration Verification	Sr (216.596 nm)	2.5203 (ppm)	0.32	2.5203 (ppm)	31167.2492
3/15/2018 12:28:31	Continuing Calibration Verification	Ti (336.122 nm)	2.4942 (ppm)	0.01	2.4942 (ppm)	404473.3818
3/15/2018 12:28:31	Continuing Calibration Verification	Ti (351.923 nm)	1.0092 (ppm)	0.16	1.0092 (ppm)	2180.3051
3/15/2018 12:28:31	Continuing Calibration Verification	V (292.401 nm)	2.5246 (ppm)	0.11	2.5246 (ppm)	73586.6169
3/15/2018 12:28:31	Continuing Calibration Verification	Y (360.074 nm)	1.04 (Ratio)	0.35	1.04 (Ratio)	733764.33
3/15/2018 12:28:31	Continuing Calibration Verification	Y_R (360.074 nm)	1.04 (Ratio)	0.36	1.04 (Ratio)	733437.66
3/15/2018 12:28:31	Continuing Calibration Verification	Zn (213.857 nm)	0.9543 (ppm)	0.10	0.9543 (ppm)	25887.2991
3/15/2018 12:31:50	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	53.55	-0.0002 (ppm)	-107.9329
3/15/2018 12:31:50	Continuing Calibration Blank	Al (394.401 nm)	0.0014 (ppm)	56.64	0.0014 (ppm)	161.9509
3/15/2018 12:31:50	Continuing Calibration Blank	As (188.980 nm)	0.0033 (ppm)	70.90	0.0033 (ppm)	-1.8875
3/15/2018 12:31:50	Continuing Calibration Blank	B (249.772 nm)	0.0012 (ppm)	20.63	0.0012 (ppm)	159.1438
3/15/2018 12:31:50	Continuing Calibration Blank	Ba (230.424 nm)	0.0029 (ppm)	3.62	0.0029 (ppm)	88.9486
3/15/2018 12:31:50	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	2.50	0.0001 (ppm)	-452.8747
3/15/2018 12:31:50	Continuing Calibration Blank	Ca (227.547 nm)	0.0166 u (ppm)	> 100.00	0.0166 (ppm)	5.2355
3/15/2018 12:31:50	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	78.20	0.0002 (ppm)	18.1379
3/15/2018 12:31:50	Continuing Calibration Blank	Co (230.786 nm)	0.0009 (ppm)	27.67	0.0009 (ppm)	2.6632
3/15/2018 12:31:50	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	93.49	0.0002 (ppm)	9.7761
3/15/2018 12:31:50	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	76.27	0.0001 (ppm)	21.4388
3/15/2018 12:31:50	Continuing Calibration Blank	Fe (234.350 nm)	0.0021 (ppm)	8.32	0.0021 (ppm)	36.9612
3/15/2018 12:31:50	Continuing Calibration Blank	K (766.491 nm)	0.0585 (ppm)	26.44	0.0585 (ppm)	117.4664
3/15/2018 12:31:50	Continuing Calibration Blank	Mg (279.078 nm)	0.0072 (ppm)	26.33	0.0072 (ppm)	6.6256
3/15/2018 12:31:50	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	11.34	0.0002 (ppm)	74.3914
3/15/2018 12:31:50	Continuing Calibration Blank	Mo (202.032 nm)	0.0028 (ppm)	16.80	0.0028 (ppm)	29.4849
3/15/2018 12:31:50	Continuing Calibration Blank	Na (588.995 nm)	0.0437 (ppm)	3.89	0.0437 (ppm)	-7595.4840
3/15/2018 12:31:50	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-17.0777
3/15/2018 12:31:50	Continuing Calibration Blank	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.9928
3/15/2018 12:31:50	Continuing Calibration Blank	Sb (217.582 nm)	0.0031 (ppm)	> 100.00	0.0031 (ppm)	6.2067
3/15/2018 12:31:50	Continuing Calibration Blank	Se (196.026 nm)	0.0016 (ppm)	99.84	0.0016 (ppm)	-0.7316
3/15/2018 12:31:50	Continuing Calibration Blank	Sn (189.925 nm)	0.0037 (ppm)	33.53	0.0037 (ppm)	2.2936
3/15/2018 12:31:50	Continuing Calibration Blank	Sr (216.596 nm)	0.0010 (ppm)	32.59	0.0010 (ppm)	10.3223
3/15/2018 12:31:50	Continuing Calibration Blank	Ti (336.122 nm)	0.0017 (ppm)	9.66	0.0017 (ppm)	-343.1102
3/15/2018 12:31:50	Continuing Calibration Blank	Ti (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	9.1674
3/15/2018 12:31:50	Continuing Calibration Blank	V (292.401 nm)	0.0007 (ppm)	9.20	0.0007 (ppm)	153.4280

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:31:50	Continuing Calibration Blank	Y (360.074 nm)	1.06 (Ratio)	0.78	1.06 (Ratio)	749081.80
3/15/2018 12:31:50	Continuing Calibration Blank	Y_R (360.074 nm)	1.07 (Ratio)	0.78	1.07 (Ratio)	748583.31
3/15/2018 12:31:50	Continuing Calibration Blank	Zn (213.857 nm)	-0.0002 u (ppm)	16.62	-0.0002 (ppm)	-19.2945
3/15/2018 12:35:10	PBW-309522	Ag (328.068 nm)	-0.0002 u (ppm)	42.43	-0.0002 (ppm)	-108.2260
3/15/2018 12:35:10	PBW-309522	Al (394.401 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	157.4080
3/15/2018 12:35:10	PBW-309522	As (188.980 nm)	0.0020 (ppm)	> 100.00	0.0020 (ppm)	-3.0416
3/15/2018 12:35:10	PBW-309522	B (249.772 nm)	0.0005 (ppm)	31.35	0.0005 (ppm)	142.3334
3/15/2018 12:35:10	PBW-309522	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.8142
3/15/2018 12:35:10	PBW-309522	Be (313.107 nm)	0.0000 (ppm)	25.23	0.0000 (ppm)	-530.0336
3/15/2018 12:35:10	PBW-309522	Ca (227.547 nm)	0.0618 (ppm)	51.87	0.0618 (ppm)	7.2302
3/15/2018 12:35:10	PBW-309522	Cd (214.439 nm)	-0.0001 u (ppm)	55.86	-0.0001 (ppm)	12.0280
3/15/2018 12:35:10	PBW-309522	Co (230.786 nm)	0.0003 (ppm)	30.39	0.0003 (ppm)	-2.2502
3/15/2018 12:35:10	PBW-309522	Cr (267.716 nm)	0.0012 (ppm)	14.46	0.0012 (ppm)	47.6147
3/15/2018 12:35:10	PBW-309522	Cu (327.395 nm)	-0.0002 u (ppm)	11.42	-0.0002 (ppm)	5.0729
3/15/2018 12:35:10	PBW-309522	Fe (234.350 nm)	0.0036 (ppm)	13.60	0.0036 (ppm)	51.3727
3/15/2018 12:35:10	PBW-309522	K (766.491 nm)	0.0273 (ppm)	10.93	0.0273 (ppm)	49.2284
3/15/2018 12:35:10	PBW-309522	Mg (279.078 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-5.6595
3/15/2018 12:35:10	PBW-309522	Mn (257.610 nm)	0.0001 (ppm)	20.70	0.0001 (ppm)	53.5689
3/15/2018 12:35:10	PBW-309522	Mo (202.032 nm)	0.0005 (ppm)	37.86	0.0005 (ppm)	10.0713
3/15/2018 12:35:10	PBW-309522	Na (588.995 nm)	0.0373 (ppm)	3.56	0.0373 (ppm)	-7795.7213
3/15/2018 12:35:10	PBW-309522	Ni (230.299 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	-13.8842
3/15/2018 12:35:10	PBW-309522	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2612
3/15/2018 12:35:10	PBW-309522	Sb (217.582 nm)	0.0023 (ppm)	42.08	0.0023 (ppm)	5.2287
3/15/2018 12:35:10	PBW-309522	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.8215
3/15/2018 12:35:10	PBW-309522	Sn (189.925 nm)	0.0020 (ppm)	23.30	0.0020 (ppm)	0.3197
3/15/2018 12:35:10	PBW-309522	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.6300
3/15/2018 12:35:10	PBW-309522	Ti (336.122 nm)	0.0012 (ppm)	11.86	0.0012 (ppm)	-428.5354
3/15/2018 12:35:10	PBW-309522	Tl (351.923 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	11.7503
3/15/2018 12:35:10	PBW-309522	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	128.9061
3/15/2018 12:35:10	PBW-309522	Y (360.074 nm)	1.08 (Ratio)	1.04	1.08 (Ratio)	763001.54
3/15/2018 12:35:10	PBW-309522	Y_R (360.074 nm)	1.09 (Ratio)	1.05	1.09 (Ratio)	762494.26
3/15/2018 12:35:10	PBW-309522	Zn (213.857 nm)	0.0016 (ppm)	0.69	0.0016 (ppm)	30.4115
3/15/2018 12:38:28	LCSW-309522	Ag (328.068 nm)	0.0502 (ppm)	0.65	0.0502 (ppm)	2824.5154
3/15/2018 12:38:28	LCSW-309522	Al (394.401 nm)	1.8943 (ppm)	0.39	1.8943 (ppm)	18934.0757
3/15/2018 12:38:28	LCSW-309522	As (188.980 nm)	0.0409 (ppm)	21.56	0.0409 (ppm)	29.3723
3/15/2018 12:38:28	LCSW-309522	B (249.772 nm)	0.9913 (ppm)	0.39	0.9913 (ppm)	24898.5287
3/15/2018 12:38:28	LCSW-309522	Ba (230.424 nm)	2.0853 (ppm)	0.58	2.0853 (ppm)	58393.4395
3/15/2018 12:38:28	LCSW-309522	Be (313.107 nm)	0.0510 (ppm)	0.43	0.0510 (ppm)	62545.1873
3/15/2018 12:38:28	LCSW-309522	Ca (227.547 nm)	1.8648 (ppm)	2.84	1.8648 (ppm)	86.8453
3/15/2018 12:38:28	LCSW-309522	Cd (214.439 nm)	0.0517 (ppm)	0.61	0.0517 (ppm)	1048.1716
3/15/2018 12:38:28	LCSW-309522	Co (230.786 nm)	0.5213 (ppm)	0.28	0.5213 (ppm)	4605.4370
3/15/2018 12:38:28	LCSW-309522	Cr (267.716 nm)	0.2105 (ppm)	0.41	0.2105 (ppm)	8403.2376
3/15/2018 12:38:28	LCSW-309522	Cu (327.395 nm)	0.2525 (ppm)	0.05	0.2525 (ppm)	11887.0657
3/15/2018 12:38:28	LCSW-309522	Fe (234.350 nm)	1.0126 (ppm)	0.38	1.0126 (ppm)	9552.0026
3/15/2018 12:38:28	LCSW-309522	K (766.491 nm)	20.0334 (ppm)	0.46	20.0334 (ppm)	43725.0198
3/15/2018 12:38:28	LCSW-309522	Mg (279.078 nm)	1.9837 (ppm)	0.47	1.9837 (ppm)	3503.3288
3/15/2018 12:38:28	LCSW-309522	Mn (257.610 nm)	0.5142 (ppm)	0.35	0.5142 (ppm)	134159.6068
3/15/2018 12:38:28	LCSW-309522	Mo (202.032 nm)	0.4992 (ppm)	0.39	0.4992 (ppm)	4217.6707
3/15/2018 12:38:28	LCSW-309522	Na (588.995 nm)	20.4987 (ppm)	0.56	20.4987 (ppm)	628022.4030
3/15/2018 12:38:28	LCSW-309522	Ni (230.299 nm)	0.5103 (ppm)	0.38	0.5103 (ppm)	3078.4901
3/15/2018 12:38:28	LCSW-309522	Pb (220.353 nm)	0.5162 (ppm)	0.82	0.5162 (ppm)	1010.3461



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:38:28	LCSW-309522	Sb (217.582 nm)	0.4738 (ppm)	0.79	0.4738 (ppm)	577.8528
3/15/2018 12:38:28	LCSW-309522	Se (196.026 nm)	1.0786 (ppm)	0.55	1.0786 (ppm)	897.2425
3/15/2018 12:38:28	LCSW-309522	Sn (189.925 nm)	4.9701 (ppm)	0.21	4.9701 (ppm)	5489.1164
3/15/2018 12:38:28	LCSW-309522	Sr (216.596 nm)	2.0676 (ppm)	0.43	2.0676 (ppm)	25568.6191
3/15/2018 12:38:28	LCSW-309522	Ti (336.122 nm)	0.4991 (ppm)	0.47	0.4991 (ppm)	80429.4414
3/15/2018 12:38:28	LCSW-309522	Tl (351.923 nm)	1.9185 (ppm)	0.58	1.9185 (ppm)	4137.4075
3/15/2018 12:38:28	LCSW-309522	V (292.401 nm)	0.5008 (ppm)	0.34	0.5008 (ppm)	14703.0573
3/15/2018 12:38:28	LCSW-309522	Y (360.074 nm)	1.06 (Ratio)	0.66	1.06 (Ratio)	747152.04
3/15/2018 12:38:28	LCSW-309522	Y_R (360.074 nm)	1.06 (Ratio)	0.66	1.06 (Ratio)	746743.50
3/15/2018 12:38:28	LCSW-309522	Zn (213.857 nm)	0.4849 (ppm)	0.77	0.4849 (ppm)	13147.1604
3/15/2018 12:41:47	R1801692-004	Ag (328.068 nm)	-0.0004 u (ppm)	29.33	-0.0004 (ppm)	-119.3879
3/15/2018 12:41:47	R1801692-004	Al (394.401 nm)	0.2111 (ppm)	0.41	0.2111 (ppm)	2241.7032
3/15/2018 12:41:47	R1801692-004	As (188.980 nm)	0.0025 (ppm)	55.30	0.0025 (ppm)	-2.6231
3/15/2018 12:41:47	R1801692-004	B (249.772 nm)	0.0790 (ppm)	0.37	0.0790 (ppm)	2103.9749
3/15/2018 12:41:47	R1801692-004	Ba (230.424 nm)	0.1027 (ppm)	0.43	0.1027 (ppm)	2881.0122
3/15/2018 12:41:47	R1801692-004	Be (313.107 nm)	0.0000 (ppm)	55.10	0.0000 (ppm)	-550.4058
3/15/2018 12:41:47	R1801692-004	Ca (227.547 nm)	397 4607 o (ppm)	0.14	397.4607 (ppm)	17555.0629
3/15/2018 12:41:47	R1801692-004	Cd (214.439 nm)	-0.0002 u (ppm)	50.78	-0.0002 (ppm)	10.1897
3/15/2018 12:41:47	R1801692-004	Co (230.786 nm)	0.0007 (ppm)	27.20	0.0007 (ppm)	1.0216
3/15/2018 12:41:47	R1801692-004	Cr (267.716 nm)	-0.0005 u (ppm)	12.74	-0.0005 (ppm)	-17.9501
3/15/2018 12:41:47	R1801692-004	Cu (327.395 nm)	0.0011 (ppm)	9.07	0.0011 (ppm)	65.0416
3/15/2018 12:41:47	R1801692-004	Fe (234.350 nm)	0.7617 (ppm)	0.12	0.7617 (ppm)	7189.7650
3/15/2018 12:41:47	R1801692-004	K (766.491 nm)	21.8366 (ppm)	0.32	21.8366 (ppm)	47661.7128
3/15/2018 12:41:47	R1801692-004	Mg (279.078 nm)	45.4733 (ppm)	0.09	45.4733 (ppm)	80445.9678
3/15/2018 12:41:47	R1801692-004	Mn (257.610 nm)	0.7689 (ppm)	0.09	0.7689 (ppm)	200618.1053
3/15/2018 12:41:47	R1801692-004	Mo (202.032 nm)	0.0013 (ppm)	39.39	0.0013 (ppm)	16.6788
3/15/2018 12:41:47	R1801692-004	Na (588.995 nm)	196.1090 o (ppm)	0.45	196.1090 (ppm)	6094517.0959
3/15/2018 12:41:47	R1801692-004	Ni (230.299 nm)	-0.0030 u (ppm)	35.41	-0.0030 (ppm)	-36.7449
3/15/2018 12:41:47	R1801692-004	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.3363
3/15/2018 12:41:47	R1801692-004	Sb (217.582 nm)	0.0025 (ppm)	56.62	0.0025 (ppm)	5.4732
3/15/2018 12:41:47	R1801692-004	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-2.3932
3/15/2018 12:41:47	R1801692-004	Sn (189.925 nm)	0.0008 (ppm)	32.47	0.0008 (ppm)	-0.9544
3/15/2018 12:41:47	R1801692-004	Sr (216.596 nm)	2.2264 (ppm)	0.86	2.2264 (ppm)	27533.3028
3/15/2018 12:41:47	R1801692-004	Ti (336.122 nm)	0.0051 (ppm)	2.10	0.0051 (ppm)	210.2654
3/15/2018 12:41:47	R1801692-004	Tl (351.923 nm)	0.0096 (ppm)	22.62	0.0096 (ppm)	29.0312
3/15/2018 12:41:47	R1801692-004	V (292.401 nm)	0.0006 (ppm)	11.69	0.0006 (ppm)	150.5804
3/15/2018 12:41:47	R1801692-004	Y (360.074 nm)	0.99 (Ratio)	0.35	0.99 (Ratio)	696556.78
3/15/2018 12:41:47	R1801692-004	Y_R (360.074 nm)	0.99 (Ratio)	0.35	0.99 (Ratio)	696555.06
3/15/2018 12:41:47	R1801692-004	Zn (213.857 nm)	0.0019 (ppm)	8.86	0.0019 (ppm)	37.4291
3/15/2018 12:45:06	R1801692-006	Ag (328.068 nm)	-0.0004 u (ppm)	48.28	-0.0004 (ppm)	-116.6350
3/15/2018 12:45:06	R1801692-006	Al (394.401 nm)	0.1482 (ppm)	0.68	0.1482 (ppm)	1617.9551
3/15/2018 12:45:06	R1801692-006	As (188.980 nm)	0.0040 u (ppm)	> 100.00	0.0040 (ppm)	-1.3196
3/15/2018 12:45:06	R1801692-006	B (249.772 nm)	0.1895 (ppm)	0.49	0.1895 (ppm)	4865.5165
3/15/2018 12:45:06	R1801692-006	Ba (230.424 nm)	0.5918 (ppm)	0.82	0.5918 (ppm)	16577.6981
3/15/2018 12:45:06	R1801692-006	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.9712
3/15/2018 12:45:06	R1801692-006	Ca (227.547 nm)	856.7070 o (ppm)	0.47	856.7070 (ppm)	37833.8771
3/15/2018 12:45:06	R1801692-006	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	13.3495
3/15/2018 12:45:06	R1801692-006	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.9263
3/15/2018 12:45:06	R1801692-006	Cr (267.716 nm)	-0.0003 u (ppm)	69.35	-0.0003 (ppm)	-10.6075
3/15/2018 12:45:06	R1801692-006	Cu (327.395 nm)	0.0008 (ppm)	45.89	0.0008 (ppm)	54.0163
3/15/2018 12:45:06	R1801692-006	Fe (234.350 nm)	0.3553 (ppm)	0.32	0.3553 (ppm)	3362.9053

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:45:06	R1801692-006	K (766.491 nm)	56.5607 o (ppm)	0.70	56.5607 (ppm)	123468.8160
3/15/2018 12:45:06	R1801692-006	Mg (279.078 nm)	117.3454 o (ppm)	0.34	117.3454 (ppm)	207603.5381
3/15/2018 12:45:06	R1801692-006	Mn (257.610 nm)	0.0394 (ppm)	0.38	0.0394 (ppm)	10282.7044
3/15/2018 12:45:06	R1801692-006	Mo (202.032 nm)	0.0055 (ppm)	6.55	0.0055 (ppm)	52.4583
3/15/2018 12:45:06	R1801692-006	Na (588.995 nm)	474.7077 o (ppm)	0.71	474.7077 (ppm)	14765304.2008
3/15/2018 12:45:06	R1801692-006	Ni (230.299 nm)	-0.0013 u (ppm)	86.74	-0.0013 (ppm)	-26.1570
3/15/2018 12:45:06	R1801692-006	Pb (220.353 nm)	-0.0026 u (ppm)	68.09	-0.0026 (ppm)	0.5815
3/15/2018 12:45:06	R1801692-006	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	3.7345
3/15/2018 12:45:06	R1801692-006	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-3.4615
3/15/2018 12:45:06	R1801692-006	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-1.2353
3/15/2018 12:45:06	R1801692-006	Sr (216.596 nm)	4.7839 (ppm)	0.89	4.7839 (ppm)	59162.9160
3/15/2018 12:45:06	R1801692-006	Ti (336.122 nm)	0.0070 (ppm)	0.92	0.0070 (ppm)	517.0320
3/15/2018 12:45:06	R1801692-006	Ti (351.923 nm)	0.0241 (ppm)	23.14	0.0241 (ppm)	60.2060
3/15/2018 12:45:06	R1801692-006	V (292.401 nm)	0.0002 (ppm)	91.97	0.0002 (ppm)	138.6956
3/15/2018 12:45:06	R1801692-006	Y (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	656714.79
3/15/2018 12:45:06	R1801692-006	Y_R (360.074 nm)	0.93 (Ratio)	0.60	0.93 (Ratio)	656901.93
3/15/2018 12:45:06	R1801692-006	Zn (213.857 nm)	0.0266 (ppm)	1.12	0.0266 (ppm)	706.7044
3/15/2018 12:48:25	R1801692-017	Ag (328.068 nm)	-0.0003 u (ppm)	33.87	-0.0003 (ppm)	-114.0777
3/15/2018 12:48:25	R1801692-017	Al (394.401 nm)	0.0776 (ppm)	0.29	0.0776 (ppm)	918.0555
3/15/2018 12:48:25	R1801692-017	As (188.980 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-3.5677
3/15/2018 12:48:25	R1801692-017	B (249.772 nm)	0.0593 (ppm)	0.90	0.0593 (ppm)	1612.6962
3/15/2018 12:48:25	R1801692-017	Ba (230.424 nm)	0.0918 (ppm)	0.43	0.0918 (ppm)	2576.9616
3/15/2018 12:48:25	R1801692-017	Be (313.107 nm)	0.0000 (ppm)	46.76	0.0000 (ppm)	-564.2852
3/15/2018 12:48:25	R1801692-017	Ca (227.547 nm)	780.8479 o (ppm)	0.36	780.8479 (ppm)	34484.1842
3/15/2018 12:48:25	R1801692-017	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.6728
3/15/2018 12:48:25	R1801692-017	Co (230.786 nm)	0.0029 (ppm)	31.57	0.0029 (ppm)	20.0638
3/15/2018 12:48:25	R1801692-017	Cr (267.716 nm)	-0.0007 u (ppm)	5.58	-0.0007 (ppm)	-26.9774
3/15/2018 12:48:25	R1801692-017	Cu (327.395 nm)	0.0005 (ppm)	30.77	0.0005 (ppm)	39.9004
3/15/2018 12:48:25	R1801692-017	Fe (234.350 nm)	0.3169 (ppm)	0.51	0.3169 (ppm)	3001.3862
3/15/2018 12:48:25	R1801692-017	K (766.491 nm)	31.9621 (ppm)	0.49	31.9621 (ppm)	69766.9541
3/15/2018 12:48:25	R1801692-017	Mg (279.078 nm)	55.2805 o (ppm)	0.28	55.2805 (ppm)	97797.0837
3/15/2018 12:48:25	R1801692-017	Mn (257.610 nm)	1.0062 (ppm)	0.19	1.0062 (ppm)	262516.1324
3/15/2018 12:48:25	R1801692-017	Mo (202.032 nm)	0.0006 (ppm)	19.91	0.0006 (ppm)	10.7128
3/15/2018 12:48:25	R1801692-017	Na (588.995 nm)	389.5407 o (ppm)	0.65	389.5407 (ppm)	12114663.1642
3/15/2018 12:48:25	R1801692-017	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-18.1661
3/15/2018 12:48:25	R1801692-017	Pb (220.353 nm)	-0.0021 u (ppm)	89.29	-0.0021 (ppm)	1.5468
3/15/2018 12:48:25	R1801692-017	Sb (217.582 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	4.3476
3/15/2018 12:48:25	R1801692-017	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.1324
3/15/2018 12:48:25	R1801692-017	Sn (189.925 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-3.0458
3/15/2018 12:48:25	R1801692-017	Sr (216.596 nm)	4.3525 (ppm)	0.57	4.3525 (ppm)	53826.9405
3/15/2018 12:48:25	R1801692-017	Ti (336.122 nm)	0.0060 (ppm)	0.66	0.0060 (ppm)	351.4971
3/15/2018 12:48:25	R1801692-017	Ti (351.923 nm)	0.0186 (ppm)	21.10	0.0186 (ppm)	48.4578
3/15/2018 12:48:25	R1801692-017	V (292.401 nm)	0.0005 (ppm)	34.78	0.0005 (ppm)	146.2734
3/15/2018 12:48:25	R1801692-017	Y (360.074 nm)	0.95 (Ratio)	0.67	0.95 (Ratio)	669610.01
3/15/2018 12:48:25	R1801692-017	Y_R (360.074 nm)	0.95 (Ratio)	0.67	0.95 (Ratio)	669825.56
3/15/2018 12:48:25	R1801692-017	Zn (213.857 nm)	0.0021 (ppm)	4.36	0.0021 (ppm)	42.2062
3/15/2018 12:51:44	R1801692-020	Ag (328.068 nm)	-0.0003 u (ppm)	38.77	-0.0003 (ppm)	-115.5390
3/15/2018 12:51:44	R1801692-020	Al (394.401 nm)	0.0778 (ppm)	1.09	0.0778 (ppm)	919.6247
3/15/2018 12:51:44	R1801692-020	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-3.2314
3/15/2018 12:51:44	R1801692-020	B (249.772 nm)	0.0446 (ppm)	0.57	0.0446 (ppm)	1244.9812
3/15/2018 12:51:44	R1801692-020	Ba (230.424 nm)	0.0468 (ppm)	0.83	0.0468 (ppm)	1315.9346

*2nd analysis*

*2nd analysis*

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:51:44	R1801692-020	Be (313.107 nm)	0.0000 (ppm)	59.08	0.0000 (ppm)	-557.9960
3/15/2018 12:51:44	R1801692-020	Ca (227.547 nm)	348.8106 o (ppm)	0.06	348.8106 (ppm)	15406.8355
3/15/2018 12:51:44	R1801692-020	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.4572
3/15/2018 12:51:44	R1801692-020	Co (230.786 nm)	0.0008 (ppm)	47.54	0.0008 (ppm)	1.7354
3/15/2018 12:51:44	R1801692-020	Cr (267.716 nm)	0.0004 (ppm)	30.87	0.0004 (ppm)	14.9150
3/15/2018 12:51:44	R1801692-020	Cu (327.395 nm)	0.0005 (ppm)	42.90	0.0005 (ppm)	40.7124
3/15/2018 12:51:44	R1801692-020	Fe (234.350 nm)	0.0445 (ppm)	0.30	0.0445 (ppm)	436.2117
3/15/2018 12:51:44	R1801692-020	K (766.491 nm)	8.2432 (ppm)	0.30	8.2432 (ppm)	17985.6735
3/15/2018 12:51:44	R1801692-020	Mg (279.078 nm)	38.9055 (ppm)	0.09	38.9055 (ppm)	68826.1219
3/15/2018 12:51:44	R1801692-020	Mn (257.610 nm)	0.2089 (ppm)	0.03	0.2089 (ppm)	54515.1161
3/15/2018 12:51:44	R1801692-020	Mo (202.032 nm)	0.0008 (ppm)	6.05	0.0008 (ppm)	12.3504
3/15/2018 12:51:44	R1801692-020	Na (588.995 nm)	203.8127 o (ppm)	0.05	203.8127 (ppm)	6334279.1079
3/15/2018 12:51:44	R1801692-020	Ni (230.299 nm)	-0.0030 u (ppm)	34.22	-0.0030 (ppm)	-36.5841
3/15/2018 12:51:44	R1801692-020	Pb (220.353 nm)	-0.0010 u (ppm)	83.39	-0.0010 (ppm)	3.6700
3/15/2018 12:51:44	R1801692-020	Sb (217.582 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	0.6843
3/15/2018 12:51:44	R1801692-020	Se (196.026 nm)	-0.0035 u (ppm)	80.07	-0.0035 (ppm)	-5.0194
3/15/2018 12:51:44	R1801692-020	Sn (189.925 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-3.2112
3/15/2018 12:51:44	R1801692-020	Sr (216.596 nm)	2.5695 (ppm)	1.03	2.5695 (ppm)	31776.5913
3/15/2018 12:51:44	R1801692-020	Ti (336.122 nm)	0.0041 (ppm)	1.13	0.0041 (ppm)	34.7316
3/15/2018 12:51:44	R1801692-020	Tl (351.923 nm)	0.0093 (ppm)	28.24	0.0093 (ppm)	28.2452
3/15/2018 12:51:44	R1801692-020	V (292.401 nm)	0.0004 (ppm)	39.25	0.0004 (ppm)	142.8709
3/15/2018 12:51:44	R1801692-020	Y (360.074 nm)	0.99 (Ratio)	0.71	0.99 (Ratio)	694750.56
3/15/2018 12:51:44	R1801692-020	Y_R (360.074 nm)	0.99 (Ratio)	0.71	0.99 (Ratio)	694819.04
3/15/2018 12:51:44	R1801692-020	Zn (213.857 nm)	0.0024 (ppm)	5.56	0.0024 (ppm)	50.9213
3/15/2018 12:55:03	R1801692-018	Ag (328.068 nm)	-0.0004 u (ppm)	42.31	-0.0004 (ppm)	-119.9345
3/15/2018 12:55:03	R1801692-018	Al (394.401 nm)	0.0718 (ppm)	2.84	0.0718 (ppm)	860.6817
3/15/2018 12:55:03	R1801692-018	As (188.980 nm)	0.0044 (ppm)	83.64	0.0044 (ppm)	-1.0425
3/15/2018 12:55:03	R1801692-018	B (249.772 nm)	0.0393 (ppm)	0.21	0.0393 (ppm)	1110.9917
3/15/2018 12:55:03	R1801692-018	Ba (230.424 nm)	0.4992 (ppm)	0.17	0.4992 (ppm)	13983.9563
3/15/2018 12:55:03	R1801692-018	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-583.7256
3/15/2018 12:55:03	R1801692-018	Ca (227.547 nm)	1882.9731 o (ppm)	0.05	1882.9731 (ppm)	83150.4240
3/15/2018 12:55:03	R1801692-018	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	16.1821
3/15/2018 12:55:03	R1801692-018	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.0486
3/15/2018 12:55:03	R1801692-018	Cr (267.716 nm)	-0.0005 u (ppm)	60.49	-0.0005 (ppm)	-17.5128
3/15/2018 12:55:03	R1801692-018	Cu (327.395 nm)	0.0010 (ppm)	26.48	0.0010 (ppm)	64.4285
3/15/2018 12:55:03	R1801692-018	Fe (234.350 nm)	0.0828 (ppm)	0.42	0.0828 (ppm)	797.2673
3/15/2018 12:55:03	R1801692-018	K (766.491 nm)	50.4024 (ppm)	0.15	50.4024 (ppm)	110024.4848
3/15/2018 12:55:03	R1801692-018	Mg (279.078 nm)	32.1902 (ppm)	0.10	32.1902 (ppm)	56945.3480
3/15/2018 12:55:03	R1801692-018	Mn (257.610 nm)	0.0505 (ppm)	0.12	0.0505 (ppm)	13183.0802
3/15/2018 12:55:03	R1801692-018	Mo (202.032 nm)	0.0011 (ppm)	54.72	0.0011 (ppm)	14.9051
3/15/2018 12:55:03	R1801692-018	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 12:55:03	R1801692-018	Ni (230.299 nm)	-0.0021 u (ppm)	64.41	-0.0021 (ppm)	-31.0409
3/15/2018 12:55:03	R1801692-018	Pb (220.353 nm)	-0.0023 u (ppm)	86.96	-0.0023 (ppm)	1.2447
3/15/2018 12:55:03	R1801692-018	Sb (217.582 nm)	0.0038 (ppm)	36.44	0.0038 (ppm)	7.1204
3/15/2018 12:55:03	R1801692-018	Se (196.026 nm)	-0.0058 u (ppm)	73.59	-0.0058 (ppm)	-6.9223
3/15/2018 12:55:03	R1801692-018	Sn (189.925 nm)	-0.0012 u (ppm)	90.88	-0.0012 (ppm)	-3.1309
3/15/2018 12:55:03	R1801692-018	Sr (216.596 nm)	6.8192 o (ppm)	0.31	6.8192 (ppm)	84334.0814
3/15/2018 12:55:03	R1801692-018	Ti (336.122 nm)	0.0129 (ppm)	0.45	0.0129 (ppm)	1464.4731
3/15/2018 12:55:03	R1801692-018	Tl (351.923 nm)	0.0514 (ppm)	14.53	0.0514 (ppm)	119.0064
3/15/2018 12:55:03	R1801692-018	V (292.401 nm)	0.0003 (ppm)	83.27	0.0003 (ppm)	141.5340
3/15/2018 12:55:03	R1801692-018	Y (360.074 nm)	0.88 (Ratio)	0.50	0.88 (Ratio)	623075.13

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 12:55:03	R1801692-018	Y_R (360.074 nm)	0.89 (Ratio)	0.50	0.89 (Ratio)	623497.79
3/15/2018 12:55:03	R1801692-018	Zn (213.857 nm)	0.0016 (ppm)	9.57	0.0016 (ppm)	28.4079
3/15/2018 12:58:22	R1801692-019	Ag (328.068 nm)	-0.0004 u (ppm)	11.17	-0.0004 (ppm)	-120.8106
3/15/2018 12:58:22	R1801692-019	Al (394.401 nm)	0.0943 (ppm)	1.28	0.0943 (ppm)	1083.0753
3/15/2018 12:58:22	R1801692-019	As (188.980 nm)	0.0029 (ppm)	> 100.00	0.0029 (ppm)	-2.2502
3/15/2018 12:58:22	R1801692-019	B (249.772 nm)	0.1048 (ppm)	0.12	0.1048 (ppm)	2749.0638
3/15/2018 12:58:22	R1801692-019	Ba (230.424 nm)	1.4231 (ppm)	0.28	1.4231 (ppm)	39853.7946
3/15/2018 12:58:22	R1801692-019	Be (313.107 nm)	0.0000 (ppm)	95.76	0.0000 (ppm)	-573.5304
3/15/2018 12:58:22	R1801692-019	Ca (227.547 nm)	1127.1021 o (ppm)	0.05	1127.1021 (ppm)	49773.6390
3/15/2018 12:58:22	R1801692-019	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	15.2527
3/15/2018 12:58:22	R1801692-019	Co (230.786 nm)	0.0005 (ppm)	89.22	0.0005 (ppm)	-0.7292
3/15/2018 12:58:22	R1801692-019	Cr (267.716 nm)	-0.0005 u (ppm)	16.25	-0.0005 (ppm)	-19.2664
3/15/2018 12:58:22	R1801692-019	Cu (327.395 nm)	0.0010 (ppm)	14.91	0.0010 (ppm)	60.7165
3/15/2018 12:58:22	R1801692-019	Fe (234.350 nm)	0.4301 (ppm)	0.19	0.4301 (ppm)	4066.7284
3/15/2018 12:58:22	R1801692-019	K (766.491 nm)	58.4123 o (ppm)	0.26	58.4123 (ppm)	127511.1900
3/15/2018 12:58:22	R1801692-019	Mg (279.078 nm)	71.5040 o (ppm)	0.04	71.5040 (ppm)	126500.0390
3/15/2018 12:58:22	R1801692-019	Mn (257.610 nm)	0.2262 (ppm)	0.04	0.2262 (ppm)	59031.2511
3/15/2018 12:58:22	R1801692-019	Mo (202.032 nm)	0.0008 (ppm)	74.80	0.0008 (ppm)	12.2930
3/15/2018 12:58:22	R1801692-019	Na (588.995 nm)	528.3649 o (ppm)	0.28	528.3649 (ppm)	16435270.4851
3/15/2018 12:58:22	R1801692-019	Ni (230.299 nm)	0.0019 (ppm)	39.80	0.0019 (ppm)	-6.7691
3/15/2018 12:58:22	R1801692-019	Pb (220.353 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	1.0717
3/15/2018 12:58:22	R1801692-019	Sb (217.582 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	5.5656
3/15/2018 12:58:22	R1801692-019	Se (196.026 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	-4.3904
3/15/2018 12:58:22	R1801692-019	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-1.1534
3/15/2018 12:58:22	R1801692-019	Sr (216.596 nm)	5.5140 o (ppm)	0.36	5.5140 (ppm)	68192.3068
3/15/2018 12:58:22	R1801692-019	Ti (336.122 nm)	0.0082 (ppm)	0.61	0.0082 (ppm)	699.2366
3/15/2018 12:58:22	R1801692-019	Tl (351.923 nm)	0.0297 (ppm)	18.40	0.0297 (ppm)	72.3438
3/15/2018 12:58:22	R1801692-019	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	132.0624
3/15/2018 12:58:22	R1801692-019	Y (360.074 nm)	0.93 (Ratio)	0.29	0.93 (Ratio)	654596.09
3/15/2018 12:58:22	R1801692-019	Y_R (360.074 nm)	0.93 (Ratio)	0.29	0.93 (Ratio)	654851.34
3/15/2018 12:58:22	R1801692-019	Zn (213.857 nm)	0.0027 (ppm)	5.76	0.0027 (ppm)	58.0969
3/15/2018 13:01:40	R1801692-021	Ag (328.068 nm)	-0.0004 u (ppm)	31.72	-0.0004 (ppm)	-118.1920
3/15/2018 13:01:40	R1801692-021	Al (394.401 nm)	0.3608 (ppm)	0.88	0.3608 (ppm)	3726.5044
3/15/2018 13:01:40	R1801692-021	As (188.980 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-5.6682
3/15/2018 13:01:40	R1801692-021	B (249.772 nm)	0.1039 (ppm)	0.42	0.1039 (ppm)	2725.0106
3/15/2018 13:01:40	R1801692-021	Ba (230.424 nm)	2.2743 (ppm)	0.21	2.2743 (ppm)	63684.9376
3/15/2018 13:01:40	R1801692-021	Be (313.107 nm)	0.0000 (ppm)	96.40	0.0000 (ppm)	-561.7068
3/15/2018 13:01:40	R1801692-021	Ca (227.547 nm)	1735.8611 o (ppm)	0.44	1735.8611 (ppm)	76654.4375
3/15/2018 13:01:40	R1801692-021	Cd (214.439 nm)	0.0000 (ppm)	84.75	0.0000 (ppm)	15.7256
3/15/2018 13:01:40	R1801692-021	Co (230.786 nm)	0.0029 (ppm)	10.85	0.0029 (ppm)	20.7027
3/15/2018 13:01:40	R1801692-021	Cr (267.716 nm)	-0.0026 u (ppm)	4.68	-0.0026 (ppm)	-104.2128
3/15/2018 13:01:40	R1801692-021	Cu (327.395 nm)	0.0013 (ppm)	9.60	0.0013 (ppm)	76.8964
3/15/2018 13:01:40	R1801692-021	Fe (234.350 nm)	0.8970 (ppm)	0.32	0.8970 (ppm)	8463.4644
3/15/2018 13:01:40	R1801692-021	K (766.491 nm)	91.5485 o (ppm)	0.60	91.5485 (ppm)	199851.5160
3/15/2018 13:01:40	R1801692-021	Mg (279.078 nm)	199.4592 o (ppm)	0.32	199.4592 (ppm)	352880.8465
3/15/2018 13:01:40	R1801692-021	Mn (257.610 nm)	6.5097 o (ppm)	0.36	6.5097 (ppm)	1698284.0485
3/15/2018 13:01:40	R1801692-021	Mo (202.032 nm)	0.0003 (ppm)	39.72	0.0003 (ppm)	8.7772
3/15/2018 13:01:40	R1801692-021	Na (588.995 nm)	755.6165 o (ppm)	0.51	755.6165 (ppm)	23507989.0275
3/15/2018 13:01:40	R1801692-021	Ni (230.299 nm)	0.0027 (ppm)	17.27	0.0027 (ppm)	-2.0143
3/15/2018 13:01:40	R1801692-021	Pb (220.353 nm)	-0.0012 u (ppm)	74.25	-0.0012 (ppm)	3.2370
3/15/2018 13:01:40	R1801692-021	Sb (217.582 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	1.6146

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:01:40	R1801692-021	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-3.2587
3/15/2018 13:01:40	R1801692-021	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-0.3679
3/15/2018 13:01:40	R1801692-021	Sr (216.596 nm)	8.3160 u (ppm)	0.30	8.3160 (ppm)	102846.7322
3/15/2018 13:01:40	R1801692-021	Ti (336.122 nm)	0.0137 (ppm)	0.65	0.0137 (ppm)	1600.2274
3/15/2018 13:01:40	R1801692-021	Ti (351.923 nm)	0.0486 (ppm)	4.81	0.0486 (ppm)	112.9709
3/15/2018 13:01:40	R1801692-021	V (292.401 nm)	0.0007 (ppm)	43.59	0.0007 (ppm)	151.8332
3/15/2018 13:01:40	R1801692-021	Y (360.074 nm)	0.89 (Ratio)	0.68	0.89 (Ratio)	624143.90
3/15/2018 13:01:40	R1801692-021	Y_R (360.074 nm)	0.89 (Ratio)	0.68	0.89 (Ratio)	624444.05
3/15/2018 13:01:40	R1801692-021	Zn (213.857 nm)	0.0058 (ppm)	4.53	0.0058 (ppm)	143.5173
3/15/2018 13:04:59	R1801692-001 10X	Ag (328.068 nm)	-0.0004 u (ppm)	14.55	-0.0004 (ppm)	-116.2531
3/15/2018 13:04:59	R1801692-001 10X	Al (394.401 nm)	0.0445 (ppm)	1.95	0.0445 (ppm)	589.1236
3/15/2018 13:04:59	R1801692-001 10X	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-3.2754
3/15/2018 13:04:59	R1801692-001 10X	B (249.772 nm)	0.0028 (ppm)	5.48	0.0028 (ppm)	200.1686
3/15/2018 13:04:59	R1801692-001 10X	Ba (230.424 nm)	0.0174 (ppm)	1.52	0.0174 (ppm)	492.8665
3/15/2018 13:04:59	R1801692-001 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-567.2614
3/15/2018 13:04:59	R1801692-001 10X	Ca (227.547 nm)	31.4450 (ppm)	1.31	31.4450 (ppm)	1393.0096
3/15/2018 13:04:59	R1801692-001 10X	Cd (214.439 nm)	-0.0004 u (ppm)	20.04	-0.0004 (ppm)	6.4458
3/15/2018 13:04:59	R1801692-001 10X	Co (230.786 nm)	0.0005 (ppm)	29.06	0.0005 (ppm)	-0.4192
3/15/2018 13:04:59	R1801692-001 10X	Cr (267.716 nm)	-0.0002 u (ppm)	23.21	-0.0002 (ppm)	-8.7705
3/15/2018 13:04:59	R1801692-001 10X	Cu (327.395 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	26.1568
3/15/2018 13:04:59	R1801692-001 10X	Fe (234.350 nm)	0.0565 (ppm)	1.83	0.0565 (ppm)	549.2811
3/15/2018 13:04:59	R1801692-001 10X	K (766.491 nm)	1.6658 (ppm)	1.89	1.6658 (ppm)	3626.3026
3/15/2018 13:04:59	R1801692-001 10X	Mg (279.078 nm)	4.1076 (ppm)	1.46	4.1076 (ppm)	7261.0882
3/15/2018 13:04:59	R1801692-001 10X	Mn (257.610 nm)	0.0582 (ppm)	1.56	0.0582 (ppm)	15190.0908
3/15/2018 13:04:59	R1801692-001 10X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.0512
3/15/2018 13:04:59	R1801692-001 10X	Na (588.995 nm)	18.4876 (ppm)	1.58	18.4876 (ppm)	566430.6347
3/15/2018 13:04:59	R1801692-001 10X	Ni (230.299 nm)	0.0015 (ppm)	41.62	0.0015 (ppm)	-9.7094
3/15/2018 13:04:59	R1801692-001 10X	Pb (220.353 nm)	-0.0019 u (ppm)	31.86	-0.0019 (ppm)	1.9580
3/15/2018 13:04:59	R1801692-001 10X	Sb (217.582 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	-0.9409
3/15/2018 13:04:59	R1801692-001 10X	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-2.8997
3/15/2018 13:04:59	R1801692-001 10X	Sn (189.925 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-0.8370
3/15/2018 13:04:59	R1801692-001 10X	Sr (216.596 nm)	0.2517 (ppm)	1.76	0.2517 (ppm)	3110.1618
3/15/2018 13:04:59	R1801692-001 10X	Ti (336.122 nm)	0.0026 (ppm)	2.10	0.0026 (ppm)	-201.6035
3/15/2018 13:04:59	R1801692-001 10X	Ti (351.923 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	9.9065
3/15/2018 13:04:59	R1801692-001 10X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	131.1723
3/15/2018 13:04:59	R1801692-001 10X	Y (360.074 nm)	1.05 (Ratio)	1.44	1.05 (Ratio)	740299.91
3/15/2018 13:04:59	R1801692-001 10X	Y_R (360.074 nm)	1.05 (Ratio)	1.44	1.05 (Ratio)	740038.03
3/15/2018 13:04:59	R1801692-001 10X	Zn (213.857 nm)	0.0043 (ppm)	2.26	0.0043 (ppm)	103.3706
3/15/2018 13:08:17	Continuing Calibration Verification	Ag (328.068 nm)	0.4841 (ppm)	0.17	0.4841 (ppm)	28046.9551
3/15/2018 13:08:17	Continuing Calibration Verification	Al (394.401 nm)	9.7040 (ppm)	0.27	9.7040 (ppm)	96381.0120
3/15/2018 13:08:17	Continuing Calibration Verification	As (188.980 nm)	0.9899 (ppm)	0.40	0.9899 (ppm)	818.9853
3/15/2018 13:08:17	Continuing Calibration Verification	B (249.772 nm)	2.4583 (ppm)	0.20	2.4583 (ppm)	61552.7509
3/15/2018 13:08:17	Continuing Calibration Verification	Ba (230.424 nm)	10.2027 (ppm)	0.59	10.2027 (ppm)	285678.5188
3/15/2018 13:08:17	Continuing Calibration Verification	Be (313.107 nm)	0.2553 (ppm)	0.17	0.2553 (ppm)	315742.3249
3/15/2018 13:08:17	Continuing Calibration Verification	Ca (227.547 nm)	24.3558 (ppm)	0.26	24.3558 (ppm)	1079.9753
3/15/2018 13:08:17	Continuing Calibration Verification	Cd (214.439 nm)	0.4992 (ppm)	0.26	0.4992 (ppm)	9993.9934
3/15/2018 13:08:17	Continuing Calibration Verification	Co (230.786 nm)	2.5537 (ppm)	0.19	2.5537 (ppm)	22582.8321
3/15/2018 13:08:17	Continuing Calibration Verification	Cr (267.716 nm)	0.5281 (ppm)	0.19	0.5281 (ppm)	21077.8579
3/15/2018 13:08:17	Continuing Calibration Verification	Cu (327.395 nm)	1.2385 (ppm)	0.20	1.2385 (ppm)	58253.0395
3/15/2018 13:08:17	Continuing Calibration Verification	Fe (234.350 nm)	4.9850 (ppm)	0.13	4.9850 (ppm)	46955.2590
3/15/2018 13:08:17	Continuing Calibration Verification	K (766.491 nm)	25.4383 (ppm)	0.53	25.4383 (ppm)	55524.7179

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:08:17	Continuing Calibration Verification	Mg (279.078 nm)	24.7513 (ppm)	0.19	24.7513 (ppm)	43784.3183
3/15/2018 13:08:17	Continuing Calibration Verification	Mn (257.610 nm)	0.7721 (ppm)	0.17	0.7721 (ppm)	201453.4449
3/15/2018 13:08:17	Continuing Calibration Verification	Mo (202.032 nm)	2.4999 (ppm)	0.18	2.4999 (ppm)	21096.3695
3/15/2018 13:08:17	Continuing Calibration Verification	Na (588.995 nm)	25.9899 (ppm)	0.27	25.9899 (ppm)	799922.3712
3/15/2018 13:08:17	Continuing Calibration Verification	Ni (230.299 nm)	2.0450 (ppm)	0.15	2.0450 (ppm)	12393.3337
3/15/2018 13:08:17	Continuing Calibration Verification	Pb (220.353 nm)	0.5012 (ppm)	0.16	0.5012 (ppm)	981.0780
3/15/2018 13:08:17	Continuing Calibration Verification	Sb (217.582 nm)	5.0228 (ppm)	0.38	5.0228 (ppm)	6102.3603
3/15/2018 13:08:17	Continuing Calibration Verification	Se (196.026 nm)	0.5020 (ppm)	0.66	0.5020 (ppm)	416.4274
3/15/2018 13:08:17	Continuing Calibration Verification	Sn (189.925 nm)	4.9574 (ppm)	0.12	4.9574 (ppm)	5475.0912
3/15/2018 13:08:17	Continuing Calibration Verification	Sr (216.596 nm)	2.5240 (ppm)	0.28	2.5240 (ppm)	31213.3989
3/15/2018 13:08:17	Continuing Calibration Verification	Ti (336.122 nm)	2.5003 (ppm)	0.14	2.5003 (ppm)	405462.4398
3/15/2018 13:08:17	Continuing Calibration Verification	Tl (351.923 nm)	1.0201 (ppm)	0.29	1.0201 (ppm)	2203.7574
3/15/2018 13:08:17	Continuing Calibration Verification	V (292.401 nm)	2.5258 (ppm)	0.15	2.5258 (ppm)	73620.2861
3/15/2018 13:08:17	Continuing Calibration Verification	Y (360.074 nm)	1.03 (Ratio)	0.78	1.03 (Ratio)	726236.46
3/15/2018 13:08:17	Continuing Calibration Verification	Y_R (360.074 nm)	1.03 (Ratio)	0.77	1.03 (Ratio)	725963.13
3/15/2018 13:08:17	Continuing Calibration Verification	Zn (213.857 nm)	0.9576 (ppm)	0.16	0.9576 (ppm)	25976.5726
3/15/2018 13:11:36	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	56.98	-0.0001 (ppm)	-102.0040
3/15/2018 13:11:36	Continuing Calibration Blank	Al (394.401 nm)	0.0020 (ppm)	41.32	0.0020 (ppm)	167.6845
3/15/2018 13:11:36	Continuing Calibration Blank	As (188.980 nm)	0.0028 (ppm)	43.29	0.0028 (ppm)	-2.3310
3/15/2018 13:11:36	Continuing Calibration Blank	B (249.772 nm)	-0.0003 u (ppm)	76.24	-0.0003 (ppm)	122.6969
3/15/2018 13:11:36	Continuing Calibration Blank	Ba (230.424 nm)	0.0035 (ppm)	3.22	0.0035 (ppm)	104.5772
3/15/2018 13:11:36	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	8.23	0.0001 (ppm)	-435.8141
3/15/2018 13:11:36	Continuing Calibration Blank	Ca (227.547 nm)	0.0152 u (ppm)	> 100.00	0.0152 (ppm)	5.1714
3/15/2018 13:11:36	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	22.29	0.0001 (ppm)	16.9502
3/15/2018 13:11:36	Continuing Calibration Blank	Co (230.786 nm)	0.0009 (ppm)	34.09	0.0009 (ppm)	2.6208
3/15/2018 13:11:36	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.2776
3/15/2018 13:11:36	Continuing Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	15.21	0.0004 (ppm)	34.6287
3/15/2018 13:11:36	Continuing Calibration Blank	Fe (234.350 nm)	0.0024 (ppm)	7.25	0.0024 (ppm)	39.9735
3/15/2018 13:11:36	Continuing Calibration Blank	K (766.491 nm)	0.0199 (ppm)	22.18	0.0199 (ppm)	33.1633
3/15/2018 13:11:36	Continuing Calibration Blank	Mg (279.078 nm)	0.0116 (ppm)	9.09	0.0116 (ppm)	14.2652
3/15/2018 13:11:36	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	18.43	0.0003 (ppm)	88.7523
3/15/2018 13:11:36	Continuing Calibration Blank	Mo (202.032 nm)	0.0026 (ppm)	5.59	0.0026 (ppm)	27.6520
3/15/2018 13:11:36	Continuing Calibration Blank	Na (588.995 nm)	0.0572 (ppm)	3.86	0.0572 (ppm)	-7175.9320
3/15/2018 13:11:36	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-18.7952
3/15/2018 13:11:36	Continuing Calibration Blank	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.9179
3/15/2018 13:11:36	Continuing Calibration Blank	Sb (217.582 nm)	0.0023 (ppm)	65.06	0.0023 (ppm)	5.2484
3/15/2018 13:11:36	Continuing Calibration Blank	Se (196.026 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	-0.3122
3/15/2018 13:11:36	Continuing Calibration Blank	Sn (189.925 nm)	0.0041 (ppm)	15.21	0.0041 (ppm)	2.6777
3/15/2018 13:11:36	Continuing Calibration Blank	Sr (216.596 nm)	0.0006 (ppm)	34.65	0.0006 (ppm)	5.2654
3/15/2018 13:11:36	Continuing Calibration Blank	Ti (336.122 nm)	0.0017 (ppm)	5.87	0.0017 (ppm)	-351.6310
3/15/2018 13:11:36	Continuing Calibration Blank	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	8.9007
3/15/2018 13:11:36	Continuing Calibration Blank	V (292.401 nm)	0.0008 (ppm)	19.51	0.0008 (ppm)	155.4970
3/15/2018 13:11:36	Continuing Calibration Blank	Y (360.074 nm)	1.06 (Ratio)	0.43	1.06 (Ratio)	749926.05
3/15/2018 13:11:36	Continuing Calibration Blank	Y_R (360.074 nm)	1.07 (Ratio)	0.42	1.07 (Ratio)	749421.07
3/15/2018 13:11:36	Continuing Calibration Blank	Zn (213.857 nm)	-0.0002 u (ppm)	25.58	-0.0002 (ppm)	-19.4015
3/15/2018 13:14:55	R1801692-002 10X	Ag (328.068 nm)	-0.0002 u (ppm)	55.68	-0.0002 (ppm)	-109.4543
3/15/2018 13:14:55	R1801692-002 10X	Al (394.401 nm)	0.0200 (ppm)	7.26	0.0200 (ppm)	346.3487
3/15/2018 13:14:55	R1801692-002 10X	As (188.980 nm)	0.0042 (ppm)	43.66	0.0042 (ppm)	-1.1895
3/15/2018 13:14:55	R1801692-002 10X	B (249.772 nm)	0.0040 (ppm)	6.24	0.0040 (ppm)	229.1868
3/15/2018 13:14:55	R1801692-002 10X	Ba (230.424 nm)	0.0102 (ppm)	3.74	0.0102 (ppm)	291.7429
3/15/2018 13:14:55	R1801692-002 10X	Be (313.107 nm)	0.0000 (ppm)	79.26	0.0000 (ppm)	-554.9087

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:14:55	R1801692-002 10X	Ca (227.547 nm)	59.7352 u (ppm)	3.62	59.7352 (ppm)	2642.2105
3/15/2018 13:14:55	R1801692-002 10X	Cd (214.439 nm)	-0.0004 u (ppm)	20.33	-0.0004 (ppm)	7.6875
3/15/2018 13:14:55	R1801692-002 10X	Co (230.786 nm)	0.0001 (ppm)	22.29	0.0001 (ppm)	-4.3474
3/15/2018 13:14:55	R1801692-002 10X	Cr (267.716 nm)	-0.0003 u (ppm)	34.80	-0.0003 (ppm)	-13.0558
3/15/2018 13:14:55	R1801692-002 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.9815
3/15/2018 13:14:55	R1801692-002 10X	Fe (234.350 nm)	0.1593 (ppm)	3.84	0.1593 (ppm)	1517.4383
3/15/2018 13:14:55	R1801692-002 10X	K (766.491 nm)	2.4343 (ppm)	3.67	2.4343 (ppm)	5303.9781
3/15/2018 13:14:55	R1801692-002 10X	Mg (279.078 nm)	4.4358 (ppm)	3.57	4.4358 (ppm)	7841.6719
3/15/2018 13:14:55	R1801692-002 10X	Mn (257.610 nm)	0.1085 (ppm)	3.44	0.1085 (ppm)	28317.0873
3/15/2018 13:14:55	R1801692-002 10X	Mo (202.032 nm)	0.0003 (ppm)	18.63	0.0003 (ppm)	8.2751
3/15/2018 13:14:55	R1801692-002 10X	Na (588.995 nm)	42.2994 (ppm)	3.70	42.2994 (ppm)	1307522.7188
3/15/2018 13:14:55	R1801692-002 10X	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-17.3643
3/15/2018 13:14:55	R1801692-002 10X	Pb (220.353 nm)	-0.0016 u (ppm)	62.07	-0.0016 (ppm)	2.5414
3/15/2018 13:14:55	R1801692-002 10X	Sb (217.582 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	5.2267
3/15/2018 13:14:55	R1801692-002 10X	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.1498
3/15/2018 13:14:55	R1801692-002 10X	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-2.3050
3/15/2018 13:14:55	R1801692-002 10X	Sr (216.596 nm)	0.4219 (ppm)	4.55	0.4219 (ppm)	5215.9234
3/15/2018 13:14:55	R1801692-002 10X	Ti (336.122 nm)	0.0026 (ppm)	2.22	0.0026 (ppm)	-200.4207
3/15/2018 13:14:55	R1801692-002 10X	Ti (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.4843
3/15/2018 13:14:55	R1801692-002 10X	V (292.401 nm)	0.0002 (ppm)	23.54	0.0002 (ppm)	137.1892
3/15/2018 13:14:55	R1801692-002 10X	Y (360.074 nm)	1.05 (Ratio)	3.01	1.05 (Ratio)	743317.29
3/15/2018 13:14:55	R1801692-002 10X	Y_R (360.074 nm)	1.06 (Ratio)	3.02	1.06 (Ratio)	743069.08
3/15/2018 13:14:55	R1801692-002 10X	Zn (213.857 nm)	0.0035 (ppm)	3.91	0.0035 (ppm)	81.0986
3/15/2018 13:18:13	R1801692-003 10X	Ag (328.068 nm)	-0.0004 u (ppm)	31.48	-0.0004 (ppm)	-116.8489
3/15/2018 13:18:13	R1801692-003 10X	Al (394.401 nm)	0.0351 (ppm)	1.81	0.0351 (ppm)	496.3398
3/15/2018 13:18:13	R1801692-003 10X	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-4.5381
3/15/2018 13:18:13	R1801692-003 10X	B (249.772 nm)	0.0023 (ppm)	10.88	0.0023 (ppm)	188.4810
3/15/2018 13:18:13	R1801692-003 10X	Ba (230.424 nm)	0.0144 (ppm)	2.08	0.0144 (ppm)	409.5202
3/15/2018 13:18:13	R1801692-003 10X	Be (313.107 nm)	0.0000 (ppm)	31.51	0.0000 (ppm)	-565.7637
3/15/2018 13:18:13	R1801692-003 10X	Ca (227.547 nm)	72.7967 u (ppm)	0.25	72.7967 (ppm)	3218.9672
3/15/2018 13:18:13	R1801692-003 10X	Cd (214.439 nm)	-0.0004 u (ppm)	10.87	-0.0004 (ppm)	6.4345
3/15/2018 13:18:13	R1801692-003 10X	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.3126
3/15/2018 13:18:13	R1801692-003 10X	Cr (267.716 nm)	-0.0004 u (ppm)	1.96	-0.0004 (ppm)	-14.8825
3/15/2018 13:18:13	R1801692-003 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.1007
3/15/2018 13:18:13	R1801692-003 10X	Fe (234.350 nm)	0.0625 (ppm)	1.51	0.0625 (ppm)	605.8336
3/15/2018 13:18:13	R1801692-003 10X	K (766.491 nm)	3.3432 (ppm)	0.65	3.3432 (ppm)	7288.3258
3/15/2018 13:18:13	R1801692-003 10X	Mg (279.078 nm)	4.5671 (ppm)	0.27	4.5671 (ppm)	8074.0236
3/15/2018 13:18:13	R1801692-003 10X	Mn (257.610 nm)	0.0928 (ppm)	0.36	0.0928 (ppm)	24239.0238
3/15/2018 13:18:13	R1801692-003 10X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.4065
3/15/2018 13:18:13	R1801692-003 10X	Na (588.995 nm)	38.1239 (ppm)	0.44	38.1239 (ppm)	1177567.8957
3/15/2018 13:18:13	R1801692-003 10X	Ni (230.299 nm)	0.0008 (ppm)	77.58	0.0008 (ppm)	-13.8113
3/15/2018 13:18:13	R1801692-003 10X	Pb (220.353 nm)	-0.0014 u (ppm)	70.48	-0.0014 (ppm)	2.9922
3/15/2018 13:18:13	R1801692-003 10X	Sb (217.582 nm)	0.0015 (ppm)	34.75	0.0015 (ppm)	4.3384
3/15/2018 13:18:13	R1801692-003 10X	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-2.7256
3/15/2018 13:18:13	R1801692-003 10X	Sn (189.925 nm)	-0.0013 u (ppm)	29.70	-0.0013 (ppm)	-3.2921
3/15/2018 13:18:13	R1801692-003 10X	Sr (216.596 nm)	0.4876 (ppm)	0.61	0.4876 (ppm)	6027.5588
3/15/2018 13:18:13	R1801692-003 10X	Ti (336.122 nm)	0.0027 (ppm)	4.93	0.0027 (ppm)	-190.4106
3/15/2018 13:18:13	R1801692-003 10X	Ti (351.923 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	11.6924
3/15/2018 13:18:13	R1801692-003 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	135.2190
3/15/2018 13:18:13	R1801692-003 10X	Y (360.074 nm)	1.04 (Ratio)	0.81	1.04 (Ratio)	732939.71
3/15/2018 13:18:13	R1801692-003 10X	Y_R (360.074 nm)	1.04 (Ratio)	0.81	1.04 (Ratio)	732718.39

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:18:13	R1801692-003 10X	Zn (213.857 nm)	0.0036 (ppm)	2.46	0.0036 (ppm)	83.3792
3/15/2018 13:21:33	R1801692-004 10X	Ag (328.068 nm)	-0.0003 u (ppm)	7.79	-0.0003 (ppm)	-110.0887
3/15/2018 13:21:33	R1801692-004 10X	Al (394.401 nm)	0.0301 (ppm)	7.19	0.0301 (ppm)	446.2967
3/15/2018 13:21:33	R1801692-004 10X	As (188.980 nm)	0.0040 (ppm)	67.47	0.0040 (ppm)	-1.3574
3/15/2018 13:21:33	R1801692-004 10X	B (249.772 nm)	0.0054 (ppm)	12.44	0.0054 (ppm)	263.7386
3/15/2018 13:21:33	R1801692-004 10X	Ba (230.424 nm)	0.0106 (ppm)	5.87	0.0106 (ppm)	302.6951
3/15/2018 13:21:33	R1801692-004 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.8169
3/15/2018 13:21:33	R1801692-004 10X	Ca (227.547 nm)	37.4043 (ppm)	5.07	37.4043 (ppm)	1656.1542
3/15/2018 13:21:33	R1801692-004 10X	Cd (214.439 nm)	-0.0003 u (ppm)	25.63	-0.0003 (ppm)	9.4087
3/15/2018 13:21:33	R1801692-004 10X	Co (230.786 nm)	0.0004 (ppm)	25.71	0.0004 (ppm)	-1.8051
3/15/2018 13:21:33	R1801692-004 10X	Cr (267.716 nm)	-0.0004 u (ppm)	15.91	-0.0004 (ppm)	-14.1161
3/15/2018 13:21:33	R1801692-004 10X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	20.9197
3/15/2018 13:21:33	R1801692-004 10X	Fe (234.350 nm)	0.0790 (ppm)	5.12	0.0790 (ppm)	760.8363
3/15/2018 13:21:33	R1801692-004 10X	K (766.491 nm)	1.9701 (ppm)	4.75	1.9701 (ppm)	4290.5799
3/15/2018 13:21:33	R1801692-004 10X	Mg (279.078 nm)	4.6236 (ppm)	4.96	4.6236 (ppm)	8174.0497
3/15/2018 13:21:33	R1801692-004 10X	Mn (257.610 nm)	0.0810 (ppm)	5.02	0.0810 (ppm)	21138.8478
3/15/2018 13:21:33	R1801692-004 10X	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	3.8638
3/15/2018 13:21:33	R1801692-004 10X	Na (588.995 nm)	20.5582 (ppm)	4.73	20.5582 (ppm)	630873.1655
3/15/2018 13:21:33	R1801692-004 10X	Ni (230.299 nm)	0.0013 (ppm)	55.16	0.0013 (ppm)	-10.3803
3/15/2018 13:21:33	R1801692-004 10X	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	4.1313
3/15/2018 13:21:33	R1801692-004 10X	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	3.4889
3/15/2018 13:21:33	R1801692-004 10X	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-1.6870
3/15/2018 13:21:33	R1801692-004 10X	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8892
3/15/2018 13:21:33	R1801692-004 10X	Sr (216.596 nm)	0.2402 (ppm)	4.24	0.2402 (ppm)	2968.2411
3/15/2018 13:21:33	R1801692-004 10X	Ti (336.122 nm)	0.0024 (ppm)	1.69	0.0024 (ppm)	-230.2479
3/15/2018 13:21:33	R1801692-004 10X	Tl (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	9.5218
3/15/2018 13:21:33	R1801692-004 10X	V (292.401 nm)	0.0003 (ppm)	84.57	0.0003 (ppm)	141.7065
3/15/2018 13:21:33	R1801692-004 10X	Y (360.074 nm)	1.04 (Ratio)	3.95	1.04 (Ratio)	736254.04
3/15/2018 13:21:33	R1801692-004 10X	Y_R (360.074 nm)	1.05 (Ratio)	3.96	1.05 (Ratio)	735982.16
3/15/2018 13:21:33	R1801692-004 10X	Zn (213.857 nm)	0.0030 (ppm)	1.79	0.0030 (ppm)	67.2229
3/15/2018 13:24:52	R1801692-005 10X	Ag (328.068 nm)	-0.0002 u (ppm)	3.35	-0.0002 (ppm)	-107.2783
3/15/2018 13:24:52	R1801692-005 10X	Al (394.401 nm)	0.0467 (ppm)	4.24	0.0467 (ppm)	611.4225
3/15/2018 13:24:52	R1801692-005 10X	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-3.2589
3/15/2018 13:24:52	R1801692-005 10X	B (249.772 nm)	0.0083 (ppm)	2.51	0.0083 (ppm)	336.6841
3/15/2018 13:24:52	R1801692-005 10X	Ba (230.424 nm)	0.0190 (ppm)	2.96	0.0190 (ppm)	537.2740
3/15/2018 13:24:52	R1801692-005 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-583.4712
3/15/2018 13:24:52	R1801692-005 10X	Ca (227.547 nm)	114.3657 u (ppm)	2.72	114.3657 (ppm)	5054.5167
3/15/2018 13:24:52	R1801692-005 10X	Cd (214.439 nm)	-0.0004 u (ppm)	22.57	-0.0004 (ppm)	6.1807
3/15/2018 13:24:52	R1801692-005 10X	Co (230.786 nm)	0.0004 (ppm)	85.93	0.0004 (ppm)	-1.9933
3/15/2018 13:24:52	R1801692-005 10X	Cr (267.716 nm)	-0.0004 u (ppm)	14.71	-0.0004 (ppm)	-13.8144
3/15/2018 13:24:52	R1801692-005 10X	Cu (327.395 nm)	0.0002 (ppm)	20.19	0.0002 (ppm)	25.7072
3/15/2018 13:24:52	R1801692-005 10X	Fe (234.350 nm)	0.4045 (ppm)	3.06	0.4045 (ppm)	3826.0933
3/15/2018 13:24:52	R1801692-005 10X	K (766.491 nm)	5.2445 (ppm)	2.79	5.2445 (ppm)	11439.1951
3/15/2018 13:24:52	R1801692-005 10X	Mg (279.078 nm)	9.8231 (ppm)	2.73	9.8231 (ppm)	17373.0928
3/15/2018 13:24:52	R1801692-005 10X	Mn (257.610 nm)	0.1536 (ppm)	2.76	0.1536 (ppm)	40087.0726
3/15/2018 13:24:52	R1801692-005 10X	Mo (202.032 nm)	-0.0004 u (ppm)	62.40	-0.0004 (ppm)	2.9859
3/15/2018 13:24:52	R1801692-005 10X	Na (588.995 nm)	86.7792 u (ppm)	2.68	86.7792 (ppm)	2691860.9486
3/15/2018 13:24:52	R1801692-005 10X	Ni (230.299 nm)	-0.0005 u (ppm)	60.78	-0.0005 (ppm)	-21.7488
3/15/2018 13:24:52	R1801692-005 10X	Pb (220.353 nm)	-0.0021 u (ppm)	53.81	-0.0021 (ppm)	1.6249
3/15/2018 13:24:52	R1801692-005 10X	Sb (217.582 nm)	0.0007 (ppm)	26.11	0.0007 (ppm)	3.3056
3/15/2018 13:24:52	R1801692-005 10X	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.9682



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:24:52	R1801692-005 10X	Sn (189.925 nm)	0.0004 (ppm)	46.54	0.0004 (ppm)	-1.4174
3/15/2018 13:24:52	R1801692-005 10X	Sr (216.596 nm)	0.7510 (ppm)	3.00	0.7510 (ppm)	9285.6587
3/15/2018 13:24:52	R1801692-005 10X	Ti (336.122 nm)	0.0030 (ppm)	3.67	0.0030 (ppm)	-140.4620
3/15/2018 13:24:52	R1801692-005 10X	Ti (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	12.2451
3/15/2018 13:24:52	R1801692-005 10X	V (292.401 nm)	0.0003 (ppm)	76.52	0.0003 (ppm)	141.6041
3/15/2018 13:24:52	R1801692-005 10X	Y (360.074 nm)	1.01 (Ratio)	2.81	1.01 (Ratio)	712988.75
3/15/2018 13:24:52	R1801692-005 10X	Y_R (360.074 nm)	1.01 (Ratio)	2.81	1.01 (Ratio)	712801.32
3/15/2018 13:24:52	R1801692-005 10X	Zn (213.857 nm)	0.0031 (ppm)	4.59	0.0031 (ppm)	68.9839
3/15/2018 13:28:12	R1801692-006 10X	Ag (328.068 nm)	-0.0003 u (ppm)	54.89	-0.0003 (ppm)	-115.0565
3/15/2018 13:28:12	R1801692-006 10X	Al (394.401 nm)	0.0309 (ppm)	2.16	0.0309 (ppm)	454.5865
3/15/2018 13:28:12	R1801692-006 10X	As (188.980 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	-2.9543
3/15/2018 13:28:12	R1801692-006 10X	B (249.772 nm)	0.0161 (ppm)	3.91	0.0161 (ppm)	532.5267
3/15/2018 13:28:12	R1801692-006 10X	Ba (230.424 nm)	0.0621 (ppm)	0.98	0.0621 (ppm)	1744.2720
3/15/2018 13:28:12	R1801692-006 10X	Be (313.107 nm)	0.0000 (ppm)	53.88	0.0000 (ppm)	-571.0673
3/15/2018 13:28:12	R1801692-006 10X	Ca (227.547 nm)	79.9455 o (ppm)	1.60	79.9455 (ppm)	3534.6327
3/15/2018 13:28:12	R1801692-006 10X	Cd (214.439 nm)	-0.0004 u (ppm)	15.71	-0.0004 (ppm)	5.8427
3/15/2018 13:28:12	R1801692-006 10X	Co (230.786 nm)	0.0003 (ppm)	27.22	0.0003 (ppm)	-2.1932
3/15/2018 13:28:12	R1801692-006 10X	Cr (267.716 nm)	-0.0004 u (ppm)	43.78	-0.0004 (ppm)	-16.6427
3/15/2018 13:28:12	R1801692-006 10X	Cu (327.395 nm)	0.0004 (ppm)	29.78	0.0004 (ppm)	32.9146
3/15/2018 13:28:12	R1801692-006 10X	Fe (234.350 nm)	0.0366 (ppm)	0.75	0.0366 (ppm)	361.8259
3/15/2018 13:28:12	R1801692-006 10X	K (766.491 nm)	5.0047 (ppm)	1.64	5.0047 (ppm)	10915.5721
3/15/2018 13:28:12	R1801692-006 10X	Mg (279.078 nm)	11.7702 (ppm)	1.40	11.7702 (ppm)	20817.8629
3/15/2018 13:28:12	R1801692-006 10X	Mn (257.610 nm)	0.0041 (ppm)	2.29	0.0041 (ppm)	1092.4655
3/15/2018 13:28:12	R1801692-006 10X	Mo (202.032 nm)	0.0003 (ppm)	36.88	0.0003 (ppm)	8.8075
3/15/2018 13:28:12	R1801692-006 10X	Na (588.995 nm)	53.0290 (ppm)	1.49	53.0290 (ppm)	1641458.1870
3/15/2018 13:28:12	R1801692-006 10X	Ni (230.299 nm)	0.0018 (ppm)	44.54	0.0018 (ppm)	-7.7519
3/15/2018 13:28:12	R1801692-006 10X	Pb (220.353 nm)	-0.0031 u (ppm)	30.89	-0.0031 (ppm)	-0.3712
3/15/2018 13:28:12	R1801692-006 10X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	3.0868
3/15/2018 13:28:12	R1801692-006 10X	Se (196.026 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-0.5509
3/15/2018 13:28:12	R1801692-006 10X	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-0.4543
3/15/2018 13:28:12	R1801692-006 10X	Sr (216.596 nm)	0.5165 (ppm)	1.55	0.5165 (ppm)	6385.3134
3/15/2018 13:28:12	R1801692-006 10X	Ti (336.122 nm)	0.0027 (ppm)	2.54	0.0027 (ppm)	-186.3679
3/15/2018 13:28:12	R1801692-006 10X	Ti (351.923 nm)	0.0029 (ppm)	94.52	0.0029 (ppm)	14.6626
3/15/2018 13:28:12	R1801692-006 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	136.0984
3/15/2018 13:28:12	R1801692-006 10X	Y (360.074 nm)	1.03 (Ratio)	1.53	1.03 (Ratio)	729472.23
3/15/2018 13:28:12	R1801692-006 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.53	1.04 (Ratio)	729235.40
3/15/2018 13:28:12	R1801692-006 10X	Zn (213.857 nm)	0.0056 (ppm)	2.14	0.0056 (ppm)	137.6683
3/15/2018 13:31:32	R1801692-007 10X	Ag (328.068 nm)	-0.0002 u (ppm)	78.20	-0.0002 (ppm)	-105.4335
3/15/2018 13:31:32	R1801692-007 10X	Al (394.401 nm)	0.1067 (ppm)	10.64	0.1067 (ppm)	1206.1154
3/15/2018 13:31:32	R1801692-007 10X	As (188.980 nm)	0.0046 (ppm)	17.55	0.0046 (ppm)	-0.8589
3/15/2018 13:31:32	R1801692-007 10X	B (249.772 nm)	0.0035 (ppm)	23.47	0.0035 (ppm)	218.2857
3/15/2018 13:31:32	R1801692-007 10X	Ba (230.424 nm)	0.0093 (ppm)	9.21	0.0093 (ppm)	266.6487
3/15/2018 13:31:32	R1801692-007 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-574.1549
3/15/2018 13:31:32	R1801692-007 10X	Ca (227.547 nm)	76.9548 o (ppm)	9.20	76.9548 (ppm)	3402.5722
3/15/2018 13:31:32	R1801692-007 10X	Cd (214.439 nm)	-0.0004 u (ppm)	18.93	-0.0004 (ppm)	7.7217
3/15/2018 13:31:32	R1801692-007 10X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-3.8739
3/15/2018 13:31:32	R1801692-007 10X	Cr (267.716 nm)	-0.0002 u (ppm)	63.09	-0.0002 (ppm)	-7.0139
3/15/2018 13:31:32	R1801692-007 10X	Cu (327.395 nm)	0.0004 (ppm)	26.14	0.0004 (ppm)	35.6350
3/15/2018 13:31:32	R1801692-007 10X	Fe (234.350 nm)	0.1287 (ppm)	8.90	0.1287 (ppm)	1229.1068
3/15/2018 13:31:32	R1801692-007 10X	K (766.491 nm)	2.8421 (ppm)	8.69	2.8421 (ppm)	6194.3627
3/15/2018 13:31:32	R1801692-007 10X	Mg (279.078 nm)	6.7569 (ppm)	8.67	6.7569 (ppm)	11948.1687

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:31:32	R1801692-007 10X	Mn (257.610 nm)	0.1108 (ppm)	8.71	0.1108 (ppm)	28918.9186
3/15/2018 13:31:32	R1801692-007 10X	Mo (202.032 nm)	-0.0004 u (ppm)	64.76	-0.0004 (ppm)	2.5325
3/15/2018 13:31:32	R1801692-007 10X	Na (588.995 nm)	43.3634 (ppm)	8.58	43.3634 (ppm)	1340637.4564
3/15/2018 13:31:32	R1801692-007 10X	Ni (230.299 nm)	0.0012 (ppm)	14.66	0.0012 (ppm)	-11.2526
3/15/2018 13:31:32	R1801692-007 10X	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.8045
3/15/2018 13:31:32	R1801692-007 10X	Sb (217.582 nm)	0.0024 (ppm)	97.80	0.0024 (ppm)	5.3792
3/15/2018 13:31:32	R1801692-007 10X	Se (196.026 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-3.3504
3/15/2018 13:31:32	R1801692-007 10X	Sn (189.925 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-1.2660
3/15/2018 13:31:32	R1801692-007 10X	Sr (216.596 nm)	0.4800 (ppm)	7.82	0.4800 (ppm)	5934.4807
3/15/2018 13:31:32	R1801692-007 10X	Ti (336.122 nm)	0.0035 (ppm)	0.90	0.0035 (ppm)	-55.2105
3/15/2018 13:31:32	R1801692-007 10X	Tl (351.923 nm)	0.0044 (ppm)	51.49	0.0044 (ppm)	17.7036
3/15/2018 13:31:32	R1801692-007 10X	V (292.401 nm)	0.0003 (ppm)	97.18	0.0003 (ppm)	141.5752
3/15/2018 13:31:32	R1801692-007 10X	Y (360.074 nm)	1.04 (Ratio)	7.33	1.04 (Ratio)	730604.87
3/15/2018 13:31:32	R1801692-007 10X	Y_R (360.074 nm)	1.04 (Ratio)	7.33	1.04 (Ratio)	730354.56
3/15/2018 13:31:32	R1801692-007 10X	Zn (213.857 nm)	0.0032 (ppm)	7.85	0.0032 (ppm)	73.1506
3/15/2018 13:34:51	R1801692-008 100X	Ag (328.068 nm)	-0.0002 u (ppm)	2.61	-0.0002 (ppm)	-109.8907
3/15/2018 13:34:51	R1801692-008 100X	Al (394.401 nm)	0.0100 (ppm)	6.13	0.0100 (ppm)	247.2024
3/15/2018 13:34:51	R1801692-008 100X	As (188.980 nm)	0.0018 (ppm)	45.75	0.0018 (ppm)	-3.1875
3/15/2018 13:34:51	R1801692-008 100X	B (249.772 nm)	-0.0013 u (ppm)	7.89	-0.0013 (ppm)	98.1876
3/15/2018 13:34:51	R1801692-008 100X	Ba (230.424 nm)	0.0060 (ppm)	4.05	0.0060 (ppm)	173.1856
3/15/2018 13:34:51	R1801692-008 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-581.5100
3/15/2018 13:34:51	R1801692-008 100X	Ca (227.547 nm)	21.5852 (ppm)	1.67	21.5852 (ppm)	957.6341
3/15/2018 13:34:51	R1801692-008 100X	Cd (214.439 nm)	-0.0003 u (ppm)	21.03	-0.0003 (ppm)	8.6758
3/15/2018 13:34:51	R1801692-008 100X	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-3.3317
3/15/2018 13:34:51	R1801692-008 100X	Cr (267.716 nm)	-0.0003 u (ppm)	51.44	-0.0003 (ppm)	-11.9199
3/15/2018 13:34:51	R1801692-008 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.6932
3/15/2018 13:34:51	R1801692-008 100X	Fe (234.350 nm)	0.0780 (ppm)	1.67	0.0780 (ppm)	752.1413
3/15/2018 13:34:51	R1801692-008 100X	K (766.491 nm)	0.7904 (ppm)	1.94	0.7904 (ppm)	1715.1172
3/15/2018 13:34:51	R1801692-008 100X	Mg (279.078 nm)	1.9372 (ppm)	1.69	1.9372 (ppm)	3421.2011
3/15/2018 13:34:51	R1801692-008 100X	Mn (257.610 nm)	0.0024 (ppm)	2.54	0.0024 (ppm)	646.5625
3/15/2018 13:34:51	R1801692-008 100X	Mo (202.032 nm)	-0.0006 u (ppm)	17.62	-0.0006 (ppm)	0.4941
3/15/2018 13:34:51	R1801692-008 100X	Na (588.995 nm)	17.8280 (ppm)	1.53	17.8280 (ppm)	545902.3433
3/15/2018 13:34:51	R1801692-008 100X	Ni (230.299 nm)	0.0019 (ppm)	0.65	0.0019 (ppm)	-6.7120
3/15/2018 13:34:51	R1801692-008 100X	Pb (220.353 nm)	-0.0029 u (ppm)	6.69	-0.0029 (ppm)	-0.0361
3/15/2018 13:34:51	R1801692-008 100X	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	3.4198
3/15/2018 13:34:51	R1801692-008 100X	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.2029
3/15/2018 13:34:51	R1801692-008 100X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.5438
3/15/2018 13:34:51	R1801692-008 100X	Sr (216.596 nm)	0.1445 (ppm)	2.32	0.1445 (ppm)	1784.8210
3/15/2018 13:34:51	R1801692-008 100X	Ti (336.122 nm)	0.0024 (ppm)	3.25	0.0024 (ppm)	-234.2623
3/15/2018 13:34:51	R1801692-008 100X	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	9.2325
3/15/2018 13:34:51	R1801692-008 100X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	128.5279
3/15/2018 13:34:51	R1801692-008 100X	Y (360.074 nm)	1.06 (Ratio)	1.75	1.06 (Ratio)	745358.48
3/15/2018 13:34:51	R1801692-008 100X	Y_R (360.074 nm)	1.06 (Ratio)	1.75	1.06 (Ratio)	744985.55
3/15/2018 13:34:51	R1801692-008 100X	Zn (213.857 nm)	0.0026 (ppm)	1.76	0.0026 (ppm)	57.6495
3/15/2018 13:38:13	R1801692-009 10X	Ag (328.068 nm)	-0.0003 u (ppm)	35.69	-0.0003 (ppm)	-113.5791
3/15/2018 13:38:13	R1801692-009 10X	Al (394.401 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	138.4416
3/15/2018 13:38:13	R1801692-009 10X	As (188.980 nm)	0.0029 (ppm)	76.60	0.0029 (ppm)	-2.2795
3/15/2018 13:38:13	R1801692-009 10X	B (249.772 nm)	-0.0025 u (ppm)	6.52	-0.0025 (ppm)	68.3838
3/15/2018 13:38:13	R1801692-009 10X	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	7.8371
3/15/2018 13:38:13	R1801692-009 10X	Be (313.107 nm)	0.0000 (ppm)	48.17	0.0000 (ppm)	-550.9265
3/15/2018 13:38:13	R1801692-009 10X	Ca (227.547 nm)	0.0155 u (ppm)	> 100.00	0.0155 (ppm)	5.1864

Blank  
NO Sample  
↓

OK 3/15/18

*03/15/18*

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:38:13	R1801692-009 10X <i>Blank</i>	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.2897
3/15/2018 13:38:13	R1801692-009 10X <i>no sample</i>	Co (230.786 nm)	-0.0002 u (ppm)	71.61	-0.0002 (ppm)	-7.1007
3/15/2018 13:38:13	R1801692-009 10X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.8150
3/15/2018 13:38:13	R1801692-009 10X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.1746
3/15/2018 13:38:13	R1801692-009 10X	Fe (234.350 nm)	0.0015 (ppm)	23.06	0.0015 (ppm)	31.1927
3/15/2018 13:38:13	R1801692-009 10X	K (766.491 nm)	0.0084 (ppm)	59.88	0.0084 (ppm)	7.9481
3/15/2018 13:38:13	R1801692-009 10X	Mg (279.078 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-5.3230
3/15/2018 13:38:13	R1801692-009 10X	Mn (257.610 nm)	0.0000 (ppm)	25.01	0.0000 (ppm)	25.4024
3/15/2018 13:38:13	R1801692-009 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.5747
3/15/2018 13:38:13	R1801692-009 10X	Na (588.995 nm)	0.0558 (ppm)	4.35	0.0558 (ppm)	-7218.5611
3/15/2018 13:38:13	R1801692-009 10X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-17.8268
3/15/2018 13:38:13	R1801692-009 10X	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.5983
3/15/2018 13:38:13	R1801692-009 10X	Sb (217.582 nm)	-0.0019 u (ppm)	80.28	-0.0019 (ppm)	0.1933
3/15/2018 13:38:13	R1801692-009 10X	Se (196.026 nm)	-0.0035 u (ppm)	6.21	-0.0035 (ppm)	-5.0418
3/15/2018 13:38:13	R1801692-009 10X	Sn (189.925 nm)	0.0016 (ppm)	61.26	0.0016 (ppm)	-0.0653
3/15/2018 13:38:13	R1801692-009 10X	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.2363
3/15/2018 13:38:13	R1801692-009 10X	Ti (336.122 nm)	0.0000 (ppm)	18.60	0.0000 (ppm)	-628.9679
3/15/2018 13:38:13	R1801692-009 10X	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	10.1504
3/15/2018 13:38:13	R1801692-009 10X	V (292.401 nm)	-0.0001 u (ppm)	64.78	-0.0001 (ppm)	128.8260
3/15/2018 13:38:13	R1801692-009 10X	Y (360.074 nm)	1.07 (Ratio)	1.02	1.07 (Ratio)	753080.28
3/15/2018 13:38:13	R1801692-009 10X	Y_R (360.074 nm)	1.07 (Ratio)	1.02	1.07 (Ratio)	752510.68
3/15/2018 13:38:13	R1801692-009 10X	Zn (213.857 nm)	0.0010 (ppm)	2.08	0.0010 (ppm)	13.5527
3/15/2018 13:41:32	R1801692-010 10X	Ag (328.068 nm)	-0.0003 u (ppm)	62.20	-0.0003 (ppm)	-110.7606
3/15/2018 13:41:32	R1801692-010 10X	Al (394.401 nm)	0.1459 (ppm)	3.75	0.1459 (ppm)	1594.6453
3/15/2018 13:41:32	R1801692-010 10X	As (188.980 nm)	0.0032 (ppm)	50.46	0.0032 (ppm)	-2.0146
3/15/2018 13:41:32	R1801692-010 10X	B (249.772 nm)	0.0034 (ppm)	11.23	0.0034 (ppm)	215.0860
3/15/2018 13:41:32	R1801692-010 10X	Ba (230.424 nm)	0.0150 (ppm)	1.88	0.0150 (ppm)	425.5705
3/15/2018 13:41:32	R1801692-010 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-579.6889
3/15/2018 13:41:32	R1801692-010 10X	Ce (227.547 nm)	64.5752 u (ppm)	3.46	64.5752 (ppm)	2855.9299
3/15/2018 13:41:32	R1801692-010 10X	Cd (214.439 nm)	-0.0004 u (ppm)	32.01	-0.0004 (ppm)	7.2775
3/15/2018 13:41:32	R1801692-010 10X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.5861
3/15/2018 13:41:32	R1801692-010 10X	Cr (267.716 nm)	-0.0001 u (ppm)	74.54	-0.0001 (ppm)	-2.4304
3/15/2018 13:41:32	R1801692-010 10X	Cu (327.395 nm)	0.0003 (ppm)	30.60	0.0003 (ppm)	30.7355
3/15/2018 13:41:32	R1801692-010 10X	Fe (234.350 nm)	0.2020 (ppm)	3.38	0.2020 (ppm)	1919.1841
3/15/2018 13:41:32	R1801692-010 10X	K (766.491 nm)	1.6972 (ppm)	4.03	1.6972 (ppm)	3694.8153
3/15/2018 13:41:32	R1801692-010 10X	Mg (279.078 nm)	4.8335 (ppm)	3.48	4.8335 (ppm)	8545.3817
3/15/2018 13:41:32	R1801692-010 10X	Mn (257.610 nm)	0.0617 (ppm)	3.68	0.0617 (ppm)	16120.4452
3/15/2018 13:41:32	R1801692-010 10X	Mo (202.032 nm)	-0.0002 u (ppm)	42.78	-0.0002 (ppm)	4.1344
3/15/2018 13:41:32	R1801692-010 10X	Na (588.995 nm)	38.8901 (ppm)	3.58	38.8901 (ppm)	1201413.5618
3/15/2018 13:41:32	R1801692-010 10X	Ni (230.299 nm)	0.0011 (ppm)	23.36	0.0011 (ppm)	-11.6010
3/15/2018 13:41:32	R1801692-010 10X	Pb (220.353 nm)	-0.0011 u (ppm)	91.66	-0.0011 (ppm)	3.4964
3/15/2018 13:41:32	R1801692-010 10X	Sb (217.582 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	4.3917
3/15/2018 13:41:32	R1801692-010 10X	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-1.2656
3/15/2018 13:41:32	R1801692-010 10X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.9701
3/15/2018 13:41:32	R1801692-010 10X	Sr (216.596 nm)	0.3722 (ppm)	3.35	0.3722 (ppm)	4600.8879
3/15/2018 13:41:32	R1801692-010 10X	Ti (336.122 nm)	0.0057 (ppm)	1.21	0.0057 (ppm)	308.3091
3/15/2018 13:41:32	R1801692-010 10X	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	8.1967
3/15/2018 13:41:32	R1801692-010 10X	V (292.401 nm)	0.0004 (ppm)	35.19	0.0004 (ppm)	143.8274
3/15/2018 13:41:32	R1801692-010 10X	Y (360.074 nm)	1.02 (Ratio)	3.28	1.02 (Ratio)	721148.99
3/15/2018 13:41:32	R1801692-010 10X	Y_R (360.074 nm)	1.03 (Ratio)	3.29	1.03 (Ratio)	720820.36
3/15/2018 13:41:32	R1801692-010 10X	Zn (213.857 nm)	0.0032 (ppm)	0.48	0.0032 (ppm)	72.1260

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:44:52	R1801692-011 10X	Ag (328.068 nm)	-0.0003 u (ppm)	12.10	-0.0003 (ppm)	-114.8414
3/15/2018 13:44:52	R1801692-011 10X	Al (394.401 nm)	0.0284 (ppm)	1.93	0.0284 (ppm)	429.5635
3/15/2018 13:44:52	R1801692-011 10X	As (188.980 nm)	0.0028 (ppm)	94.62	0.0028 (ppm)	-2.3189
3/15/2018 13:44:52	R1801692-011 10X	B (249.772 nm)	0.0041 (ppm)	6.63	0.0041 (ppm)	232.3134
3/15/2018 13:44:52	R1801692-011 10X	Ba (230.424 nm)	0.0068 (ppm)	2.79	0.0068 (ppm)	197.1508
3/15/2018 13:44:52	R1801692-011 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-580.9429
3/15/2018 13:44:52	R1801692-011 10X	Ca (227.547 nm)	66.5554 o (ppm)	1.53	66.5554 (ppm)	2943.3688
3/15/2018 13:44:52	R1801692-011 10X	Cd (214.439 nm)	-0.0003 u (ppm)	57.83	-0.0003 (ppm)	8.9734
3/15/2018 13:44:52	R1801692-011 10X	Co (230.786 nm)	0.0003 (ppm)	18.79	0.0003 (ppm)	-2.9508
3/15/2018 13:44:52	R1801692-011 10X	Cr (267.716 nm)	-0.0002 u (ppm)	65.56	-0.0002 (ppm)	-6.7648
3/15/2018 13:44:52	R1801692-011 10X	Cu (327.395 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	22.3945
3/15/2018 13:44:52	R1801692-011 10X	Fe (234.350 nm)	0.1593 (ppm)	1.53	0.1593 (ppm)	1517.5617
3/15/2018 13:44:52	R1801692-011 10X	K (766.491 nm)	2.3732 (ppm)	1.55	2.3732 (ppm)	5170.6956
3/15/2018 13:44:52	R1801692-011 10X	Mg (279.078 nm)	9.2142 (ppm)	1.58	9.2142 (ppm)	16295.6758
3/15/2018 13:44:52	R1801692-011 10X	Mn (257.610 nm)	0.0463 (ppm)	1.62	0.0463 (ppm)	12087.3223
3/15/2018 13:44:52	R1801692-011 10X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.4835
3/15/2018 13:44:52	R1801692-011 10X	Na (588.995 nm)	60.5781 o (ppm)	1.76	60.5781 (ppm)	1876405.7806
3/15/2018 13:44:52	R1801692-011 10X	Ni (230.299 nm)	0.0006 (ppm)	72.56	0.0006 (ppm)	-15.1634
3/15/2018 13:44:52	R1801692-011 10X	Pb (220.353 nm)	-0.0024 u (ppm)	39.61	-0.0024 (ppm)	1.0244
3/15/2018 13:44:52	R1801692-011 10X	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	2.6026
3/15/2018 13:44:52	R1801692-011 10X	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.0189
3/15/2018 13:44:52	R1801692-011 10X	Sn (189.925 nm)	-0.0010 u (ppm)	93.65	-0.0010 (ppm)	-2.9713
3/15/2018 13:44:52	R1801692-011 10X	Sr (216.596 nm)	0.4844 (ppm)	1.45	0.4844 (ppm)	5988.0896
3/15/2018 13:44:52	R1801692-011 10X	Ti (336.122 nm)	0.0027 (ppm)	1.13	0.0027 (ppm)	-187.3428
3/15/2018 13:44:52	R1801692-011 10X	Tl (351.923 nm)	0.0059 (ppm)	70.48	0.0059 (ppm)	21.0822
3/15/2018 13:44:52	R1801692-011 10X	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	133.8690
3/15/2018 13:44:52	R1801692-011 10X	Y (360.074 nm)	1.04 (Ratio)	1.64	1.04 (Ratio)	731612.46
3/15/2018 13:44:52	R1801692-011 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.65	1.04 (Ratio)	731361.87
3/15/2018 13:44:52	R1801692-011 10X	Zn (213.857 nm)	0.0134 (ppm)	1.35	0.0134 (ppm)	348.8735
3/15/2018 13:48:11	Continuing Calibration Verification	Ag (328.068 nm)	0.4847 (ppm)	0.35	0.4847 (ppm)	28082.6506
3/15/2018 13:48:11	Continuing Calibration Verification	Al (394.401 nm)	9.7213 (ppm)	0.26	9.7213 (ppm)	96552.9916
3/15/2018 13:48:11	Continuing Calibration Verification	As (188.980 nm)	0.9824 (ppm)	0.37	0.9824 (ppm)	812.7670
3/15/2018 13:48:11	Continuing Calibration Verification	B (249.772 nm)	2.4571 (ppm)	0.27	2.4571 (ppm)	61522.8622
3/15/2018 13:48:11	Continuing Calibration Verification	Ba (230.424 nm)	10.1429 (ppm)	0.15	10.1429 (ppm)	284003.1655
3/15/2018 13:48:11	Continuing Calibration Verification	Be (313.107 nm)	0.2546 (ppm)	0.16	0.2546 (ppm)	314866.2725
3/15/2018 13:48:11	Continuing Calibration Verification	Ca (227.547 nm)	24.5023 (ppm)	0.61	24.5023 (ppm)	1086.4408
3/15/2018 13:48:11	Continuing Calibration Verification	Cd (214.439 nm)	0.4956 (ppm)	0.16	0.4956 (ppm)	9922.2492
3/15/2018 13:48:11	Continuing Calibration Verification	Co (230.786 nm)	2.5424 (ppm)	0.16	2.5424 (ppm)	22482.3196
3/15/2018 13:48:11	Continuing Calibration Verification	Cr (267.716 nm)	0.5253 (ppm)	0.14	0.5253 (ppm)	20964.9314
3/15/2018 13:48:11	Continuing Calibration Verification	Cu (327.395 nm)	1.2439 (ppm)	0.35	1.2439 (ppm)	58506.2815
3/15/2018 13:48:11	Continuing Calibration Verification	Fe (234.350 nm)	4.9625 (ppm)	0.15	4.9625 (ppm)	46743.9252
3/15/2018 13:48:11	Continuing Calibration Verification	K (766.491 nm)	25.5754 (ppm)	0.40	25.5754 (ppm)	55823.9892
3/15/2018 13:48:11	Continuing Calibration Verification	Mg (279.078 nm)	24.6284 (ppm)	0.19	24.6284 (ppm)	43566.8198
3/15/2018 13:48:11	Continuing Calibration Verification	Mn (257.610 nm)	0.7694 (ppm)	0.10	0.7694 (ppm)	200747.6155
3/15/2018 13:48:11	Continuing Calibration Verification	Mo (202.032 nm)	2.4944 (ppm)	0.04	2.4944 (ppm)	21050.1083
3/15/2018 13:48:11	Continuing Calibration Verification	Na (588.995 nm)	26.1385 (ppm)	0.64	26.1385 (ppm)	804549.7314
3/15/2018 13:48:11	Continuing Calibration Verification	Ni (230.299 nm)	2.0312 (ppm)	0.25	2.0312 (ppm)	12309.6958
3/15/2018 13:48:11	Continuing Calibration Verification	Pb (220.353 nm)	0.4999 (ppm)	0.28	0.4999 (ppm)	978.5807
3/15/2018 13:48:11	Continuing Calibration Verification	Sb (217.582 nm)	5.0161 (ppm)	0.25	5.0161 (ppm)	6094.2463
3/15/2018 13:48:11	Continuing Calibration Verification	Se (196.026 nm)	0.5029 (ppm)	1.21	0.5029 (ppm)	417.2455
3/15/2018 13:48:11	Continuing Calibration Verification	Sn (189.925 nm)	4.9454 (ppm)	0.63	4.9454 (ppm)	5461.7913

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:48:11	Continuing Calibration Verification	Sr (216.596 nm)	2.5008 (ppm)	0.33	2.5008 (ppm)	30925.9566
3/15/2018 13:48:11	Continuing Calibration Verification	Ti (336.122 nm)	2.4991 (ppm)	0.19	2.4991 (ppm)	405260.8338
3/15/2018 13:48:11	Continuing Calibration Verification	Ti (351.923 nm)	1.0168 (ppm)	0.14	1.0168 (ppm)	2196.5722
3/15/2018 13:48:11	Continuing Calibration Verification	V (292.401 nm)	2.5227 (ppm)	0.12	2.5227 (ppm)	73532.4923
3/15/2018 13:48:11	Continuing Calibration Verification	Y (360.074 nm)	1.04 (Ratio)	0.68	1.04 (Ratio)	731261.25
3/15/2018 13:48:11	Continuing Calibration Verification	Y_R (360.074 nm)	1.04 (Ratio)	0.67	1.04 (Ratio)	730876.36
3/15/2018 13:48:11	Continuing Calibration Verification	Zn (213.857 nm)	0.9524 (ppm)	0.09	0.9524 (ppm)	25835.1972
3/15/2018 13:51:30	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-102.5354
3/15/2018 13:51:30	Continuing Calibration Blank	Al (394.401 nm)	0.0019 (ppm)	19.53	0.0019 (ppm)	167.3744
3/15/2018 13:51:30	Continuing Calibration Blank	As (188.980 nm)	0.0039 (ppm)	14.99	0.0039 (ppm)	-1.4237
3/15/2018 13:51:30	Continuing Calibration Blank	B (249.772 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	126.3156
3/15/2018 13:51:30	Continuing Calibration Blank	Ba (230.424 nm)	0.0042 (ppm)	1.13	0.0042 (ppm)	124.0516
3/15/2018 13:51:30	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	10.07	0.0001 (ppm)	-428.9636
3/15/2018 13:51:30	Continuing Calibration Blank	Ca (227.547 nm)	0.0129 u (ppm)	> 100.00	0.0129 (ppm)	5.0695
3/15/2018 13:51:30	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	19.32	0.0002 (ppm)	19.3626
3/15/2018 13:51:30	Continuing Calibration Blank	Co (230.786 nm)	0.0011 (ppm)	6.60	0.0011 (ppm)	4.5371
3/15/2018 13:51:30	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	6.8906
3/15/2018 13:51:30	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	53.37	0.0003 (ppm)	27.8797
3/15/2018 13:51:30	Continuing Calibration Blank	Fe (234.350 nm)	0.0027 (ppm)	12.31	0.0027 (ppm)	42.4849
3/15/2018 13:51:30	Continuing Calibration Blank	K (766.491 nm)	0.0181 (ppm)	71.53	0.0181 (ppm)	29.0887
3/15/2018 13:51:30	Continuing Calibration Blank	Mg (279.078 nm)	0.0088 (ppm)	33.32	0.0088 (ppm)	9.3078
3/15/2018 13:51:30	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	7.68	0.0003 (ppm)	98.5694
3/15/2018 13:51:30	Continuing Calibration Blank	Mo (202.032 nm)	0.0027 (ppm)	14.98	0.0027 (ppm)	28.9993
3/15/2018 13:51:30	Continuing Calibration Blank	Na (588.995 nm)	0.0603 (ppm)	4.01	0.0603 (ppm)	-7079.5304
3/15/2018 13:51:30	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-15.6770
3/15/2018 13:51:30	Continuing Calibration Blank	Pb (220.353 nm)	-0.0012 u (ppm)	50.86	-0.0012 (ppm)	3.2895
3/15/2018 13:51:30	Continuing Calibration Blank	Sb (217.582 nm)	0.0044 (ppm)	59.85	0.0044 (ppm)	7.8224
3/15/2018 13:51:30	Continuing Calibration Blank	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-3.0198
3/15/2018 13:51:30	Continuing Calibration Blank	Sn (189.925 nm)	0.0057 (ppm)	11.52	0.0057 (ppm)	4.4051
3/15/2018 13:51:30	Continuing Calibration Blank	Sr (216.596 nm)	0.0010 (ppm)	16.99	0.0010 (ppm)	10.2466
3/15/2018 13:51:30	Continuing Calibration Blank	Ti (336.122 nm)	0.0019 (ppm)	1.76	0.0019 (ppm)	-320.0938
3/15/2018 13:51:30	Continuing Calibration Blank	Ti (351.923 nm)	0.0019 (ppm)	46.39	0.0019 (ppm)	12.4351
3/15/2018 13:51:30	Continuing Calibration Blank	V (292.401 nm)	0.0010 (ppm)	27.90	0.0010 (ppm)	162.1647
3/15/2018 13:51:30	Continuing Calibration Blank	Y (360.074 nm)	1.07 (Ratio)	0.97	1.07 (Ratio)	753752.50
3/15/2018 13:51:30	Continuing Calibration Blank	Y_R (360.074 nm)	1.07 (Ratio)	0.97	1.07 (Ratio)	753162.34
3/15/2018 13:51:30	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-16.2122
3/15/2018 13:54:49	R1801692-011S 10X	Ag (328.068 nm)	0.0051 (ppm)	1.05	0.0051 (ppm)	198.7530
3/15/2018 13:54:49	R1801692-011S 10X	Al (394.401 nm)	0.2331 (ppm)	1.71	0.2331 (ppm)	2459.7171
3/15/2018 13:54:49	R1801692-011S 10X	As (188.980 nm)	0.0052 (ppm)	87.72	0.0052 (ppm)	-0.3803
3/15/2018 13:54:49	R1801692-011S 10X	B (249.772 nm)	0.1086 (ppm)	1.72	0.1086 (ppm)	2842.3319
3/15/2018 13:54:49	R1801692-011S 10X	Ba (230.424 nm)	0.2145 (ppm)	1.60	0.2145 (ppm)	6011.8342
3/15/2018 13:54:49	R1801692-011S 10X	Be (313.107 nm)	0.0051 (ppm)	1.05	0.0051 (ppm)	5737.5471
3/15/2018 13:54:49	R1801692-011S 10X	Ca (227.547 nm)	67.0581 u (ppm)	1.34	67.0581 (ppm)	2965.5692
3/15/2018 13:54:49	R1801692-011S 10X	Cd (214.439 nm)	0.0048 (ppm)	0.28	0.0048 (ppm)	111.4770
3/15/2018 13:54:49	R1801692-011S 10X	Co (230.786 nm)	0.0520 (ppm)	1.65	0.0520 (ppm)	454.7188
3/15/2018 13:54:49	R1801692-011S 10X	Cr (267.716 nm)	0.0208 (ppm)	0.90	0.0208 (ppm)	831.3859
3/15/2018 13:54:49	R1801692-011S 10X	Cu (327.395 nm)	0.0257 (ppm)	1.61	0.0257 (ppm)	1225.6328
3/15/2018 13:54:49	R1801692-011S 10X	Fe (234.350 nm)	0.2602 (ppm)	1.50	0.2602 (ppm)	2467.7450
3/15/2018 13:54:49	R1801692-011S 10X	K (766.491 nm)	4.5699 (ppm)	1.52	4.5699 (ppm)	9966.3224
3/15/2018 13:54:49	R1801692-011S 10X	Mg (279.078 nm)	9.4421 (ppm)	1.55	9.4421 (ppm)	16698.9994
3/15/2018 13:54:49	R1801692-011S 10X	Mn (257.610 nm)	0.0980 (ppm)	1.55	0.0980 (ppm)	25596.0028

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 13:54:49	R1801692-011S 10X	Mo (202.032 nm)	0.0498 (ppm)	0.95	0.0498 (ppm)	426.4262
3/15/2018 13:54:49	R1801692-011S 10X	Na (588.995 nm)	62.6888 o (ppm)	1.62	62.6888 (ppm)	1942097.6724
3/15/2018 13:54:49	R1801692-011S 10X	Ni (230.299 nm)	0.0515 (ppm)	2.70	0.0515 (ppm)	293.8306
3/15/2018 13:54:49	R1801692-011S 10X	Pb (220.353 nm)	0.0502 (ppm)	2.01	0.0502 (ppm)	103.4083
3/15/2018 13:54:49	R1801692-011S 10X	Sb (217.582 nm)	0.0500 (ppm)	5.17	0.0500 (ppm)	63.1965
3/15/2018 13:54:49	R1801692-011S 10X	Se (196.026 nm)	0.1301 (ppm)	1.28	0.1301 (ppm)	106.4070
3/15/2018 13:54:49	R1801692-011S 10X	Sn (189.925 nm)	0.4873 (ppm)	2.26	0.4873 (ppm)	536.5353
3/15/2018 13:54:49	R1801692-011S 10X	Sr (216.596 nm)	0.6867 (ppm)	1.50	0.6867 (ppm)	8490.3828
3/15/2018 13:54:49	R1801692-011S 10X	Ti (336.122 nm)	0.0538 (ppm)	1.32	0.0538 (ppm)	8106.0458
3/15/2018 13:54:49	R1801692-011S 10X	Ti (351.923 nm)	0.2122 (ppm)	2.27	0.2122 (ppm)	465.0928
3/15/2018 13:54:49	R1801692-011S 10X	V (292.401 nm)	0.0514 (ppm)	1.25	0.0514 (ppm)	1628.1943
3/15/2018 13:54:49	R1801692-011S 10X	Y (360.074 nm)	1.04 (Ratio)	1.68	1.04 (Ratio)	734898.49
3/15/2018 13:54:49	R1801692-011S 10X	Y_R (360.074 nm)	1.05 (Ratio)	1.68	1.05 (Ratio)	734610.89
3/15/2018 13:54:49	R1801692-011S 10X	Zn (213.857 nm)	0.0611 (ppm)	1.78	0.0611 (ppm)	1644.0150
3/15/2018 13:58:08	R1801692-011SD 10X	Ag (328.068 nm)	0.0050 (ppm)	2.89	0.0050 (ppm)	197.0711
3/15/2018 13:58:08	R1801692-011SD 10X	Al (394.401 nm)	0.2385 (ppm)	1.97	0.2385 (ppm)	2513.1440
3/15/2018 13:58:08	R1801692-011SD 10X	As (188.980 nm)	0.0052 (ppm)	91.13	0.0052 (ppm)	-0.3882
3/15/2018 13:58:08	R1801692-011SD 10X	B (249.772 nm)	0.1093 (ppm)	1.81	0.1093 (ppm)	2860.1525
3/15/2018 13:58:08	R1801692-011SD 10X	Ba (230.424 nm)	0.2169 (ppm)	1.37	0.2169 (ppm)	6079.2012
3/15/2018 13:58:08	R1801692-011SD 10X	Be (313.107 nm)	0.0052 (ppm)	1.41	0.0052 (ppm)	5802.0007
3/15/2018 13:58:08	R1801692-011SD 10X	Ca (227.547 nm)	67.7556 o (ppm)	1.24	67.7556 (ppm)	2996.3669
3/15/2018 13:58:08	R1801692-011SD 10X	Cd (214.439 nm)	0.0050 (ppm)	1.79	0.0050 (ppm)	113.9548
3/15/2018 13:58:08	R1801692-011SD 10X	Co (230.786 nm)	0.0519 (ppm)	3.04	0.0519 (ppm)	454.0636
3/15/2018 13:58:08	R1801692-011SD 10X	Cr (267.716 nm)	0.0210 (ppm)	1.75	0.0210 (ppm)	837.2754
3/15/2018 13:58:08	R1801692-011SD 10X	Cu (327.395 nm)	0.0259 (ppm)	2.08	0.0259 (ppm)	1234.2877
3/15/2018 13:58:08	R1801692-011SD 10X	Fe (234.350 nm)	0.2654 (ppm)	1.70	0.2654 (ppm)	2516.1978
3/15/2018 13:58:08	R1801692-011SD 10X	K (766.491 nm)	4.6181 (ppm)	1.66	4.6181 (ppm)	10071.6348
3/15/2018 13:58:08	R1801692-011SD 10X	Mg (279.078 nm)	9.5156 (ppm)	1.49	9.5156 (ppm)	16828.9627
3/15/2018 13:58:08	R1801692-011SD 10X	Mn (257.610 nm)	0.0990 (ppm)	1.50	0.0990 (ppm)	25840.8910
3/15/2018 13:58:08	R1801692-011SD 10X	Mo (202.032 nm)	0.0502 (ppm)	0.86	0.0502 (ppm)	429.1956
3/15/2018 13:58:08	R1801692-011SD 10X	Na (588.995 nm)	63.4119 o (ppm)	1.65	63.4119 (ppm)	1964604.5317
3/15/2018 13:58:08	R1801692-011SD 10X	Ni (230.299 nm)	0.0509 (ppm)	3.15	0.0509 (ppm)	290.3133
3/15/2018 13:58:08	R1801692-011SD 10X	Pb (220.353 nm)	0.0509 (ppm)	1.36	0.0509 (ppm)	104.6981
3/15/2018 13:58:08	R1801692-011SD 10X	Sb (217.582 nm)	0.0508 (ppm)	0.47	0.0508 (ppm)	64.1423
3/15/2018 13:58:08	R1801692-011SD 10X	Se (196.026 nm)	0.1318 (ppm)	2.61	0.1318 (ppm)	107.7482
3/15/2018 13:58:08	R1801692-011SD 10X	Sn (189.925 nm)	0.5026 (ppm)	0.72	0.5026 (ppm)	553.4361
3/15/2018 13:58:08	R1801692-011SD 10X	Sr (216.596 nm)	0.6966 (ppm)	1.87	0.6966 (ppm)	8513.0881
3/15/2018 13:58:08	R1801692-011SD 10X	Ti (336.122 nm)	0.0542 (ppm)	1.42	0.0542 (ppm)	8174.9880
3/15/2018 13:58:08	R1801692-011SD 10X	Ti (351.923 nm)	0.2143 (ppm)	1.29	0.2143 (ppm)	469.5697
3/15/2018 13:58:08	R1801692-011SD 10X	V (292.401 nm)	0.0516 (ppm)	1.25	0.0516 (ppm)	1634.6403
3/15/2018 13:58:08	R1801692-011SD 10X	Y (360.074 nm)	1.04 (Ratio)	1.59	1.04 (Ratio)	731889.28
3/15/2018 13:58:08	R1801692-011SD 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.59	1.04 (Ratio)	731663.94
3/15/2018 13:58:08	R1801692-011SD 10X	Zn (213.857 nm)	0.0585 (ppm)	1.47	0.0585 (ppm)	1574.3604
3/15/2018 14:01:27	R1801692-011A 10X	Ag (328.068 nm)	0.0546 (ppm)	2.09	0.0546 (ppm)	3077.7628
3/15/2018 14:01:27	R1801692-011A 10X	Al (394.401 nm)	2.1104 (ppm)	1.81	2.1104 (ppm)	21076.7832
3/15/2018 14:01:27	R1801692-011A 10X	As (188.980 nm)	0.0427 (ppm)	2.47	0.0427 (ppm)	30.8228
3/15/2018 14:01:27	R1801692-011A 10X	B (249.772 nm)	1.0507 (ppm)	1.75	1.0507 (ppm)	26382.3494
3/15/2018 14:01:27	R1801692-011A 10X	Ba (230.424 nm)	2.0632 (ppm)	1.91	2.0632 (ppm)	57774.3615
3/15/2018 14:01:27	R1801692-011A 10X	Be (313.107 nm)	0.0514 (ppm)	1.72	0.0514 (ppm)	63037.5675
3/15/2018 14:01:27	R1801692-011A 10X	Ca (227.547 nm)	68.7680 o (ppm)	1.96	68.7680 (ppm)	3041.0692
3/15/2018 14:01:27	R1801692-011A 10X	Cd (214.439 nm)	0.0513 (ppm)	1.89	0.0513 (ppm)	1039.8693

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:01:27	R1801692-011A 10X	Co (230.786 nm)	0.5191 (ppm)	1.85	0.5191 (ppm)	4586.3610
3/15/2018 14:01:27	R1801692-011A 10X	Cr (267.716 nm)	0.2093 (ppm)	1.78	0.2093 (ppm)	8353.2613
3/15/2018 14:01:27	R1801692-011A 10X	Cu (327.395 nm)	0.2539 (ppm)	1.70	0.2539 (ppm)	11954.1149
3/15/2018 14:01:27	R1801692-011A 10X	Fe (234.350 nm)	1.1673 (ppm)	1.80	1.1673 (ppm)	11008.0193
3/15/2018 14:01:27	R1801692-011A 10X	K (766.491 nm)	23.9345 (ppm)	1.80	23.9345 (ppm)	52241.6831
3/15/2018 14:01:27	R1801692-011A 10X	Mg (279.078 nm)	11.2019 (ppm)	1.80	11.2019 (ppm)	19812.4318
3/15/2018 14:01:27	R1801692-011A 10X	Mn (257.610 nm)	0.5610 (ppm)	1.75	0.5610 (ppm)	146370.3383
3/15/2018 14:01:27	R1801692-011A 10X	Mo (202.032 nm)	0.0003 (ppm)	86.64	0.0003 (ppm)	8.6136
3/15/2018 14:01:27	R1801692-011A 10X	Na (588.995 nm)	80.2702 (ppm)	1.97	80.2702 (ppm)	2489282.1612
3/15/2018 14:01:27	R1801692-011A 10X	Ni (230.299 nm)	0.5075 (ppm)	1.55	0.5075 (ppm)	3061.7800
3/15/2018 14:01:27	R1801692-011A 10X	Pb (220.353 nm)	0.5183 (ppm)	1.69	0.5183 (ppm)	1014.3102
3/15/2018 14:01:27	R1801692-011A 10X	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	3.8717
3/15/2018 14:01:27	R1801692-011A 10X	Se (196.026 nm)	0.0157 (ppm)	22.96	0.0157 (ppm)	10.9459
3/15/2018 14:01:27	R1801692-011A 10X	Sn (189.925 nm)	0.0072 (ppm)	17.69	0.0072 (ppm)	6.1258
3/15/2018 14:01:27	R1801692-011A 10X	Sr (216.596 nm)	0.4787 (ppm)	1.81	0.4787 (ppm)	5918.0173
3/15/2018 14:01:27	R1801692-011A 10X	Ti (336.122 nm)	0.0029 (ppm)	2.85	0.0029 (ppm)	-155.8532
3/15/2018 14:01:27	R1801692-011A 10X	Ti (351.923 nm)	2.0877 (ppm)	1.97	2.0877 (ppm)	4501.4285
3/15/2018 14:01:27	R1801692-011A 10X	V (292.401 nm)	0.5101 (ppm)	1.81	0.5101 (ppm)	14974.1197
3/15/2018 14:01:27	R1801692-011A 10X	Y (360.074 nm)	1.03 (Ratio)	1.86	1.03 (Ratio)	728678.15
3/15/2018 14:01:27	R1801692-011A 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.86	1.04 (Ratio)	728584.39
3/15/2018 14:01:27	R1801692-011A 10X	Zn (213.857 nm)	0.5178 (ppm)	1.26	0.5178 (ppm)	14039.3391
3/15/2018 14:04:45	R1801692-011L 10X	Ag (328.068 nm)	-0.0003 u (ppm)	43.26	-0.0003 (ppm)	-110.2029
3/15/2018 14:04:45	R1801692-011L 10X	Al (394.401 nm)	0.0086 (ppm)	9.69	0.0086 (ppm)	233.6347
3/15/2018 14:04:45	R1801692-011L 10X	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-4.3333
3/15/2018 14:04:45	R1801692-011L 10X	B (249.772 nm)	-0.0007 u (ppm)	64.08	-0.0007 (ppm)	113.5384
3/15/2018 14:04:45	R1801692-011L 10X	Ba (230.424 nm)	0.0020 (ppm)	25.28	0.0020 (ppm)	63.0217
3/15/2018 14:04:45	R1801692-011L 10X	Be (313.107 nm)	0.0000 (ppm)	39.36	0.0000 (ppm)	-550.0556
3/15/2018 14:04:45	R1801692-011L 10X	Ce (227.547 nm)	12.7817 (ppm)	1.75	12.7817 (ppm)	568.9018
3/15/2018 14:04:45	R1801692-011L 10X	Cd (214.439 nm)	-0.0003 u (ppm)	25.44	-0.0003 (ppm)	7.9251
3/15/2018 14:04:45	R1801692-011L 10X	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.3495
3/15/2018 14:04:45	R1801692-011L 10X	Cr (267.716 nm)	-0.0001 u (ppm)	67.69	-0.0001 (ppm)	-3.3504
3/15/2018 14:04:45	R1801692-011L 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.9162
3/15/2018 14:04:45	R1801692-011L 10X	Fe (234.350 nm)	0.0317 (ppm)	3.40	0.0317 (ppm)	315.5615
3/15/2018 14:04:45	R1801692-011L 10X	K (766.491 nm)	0.4693 (ppm)	4.26	0.4693 (ppm)	1014.2839
3/15/2018 14:04:45	R1801692-011L 10X	Mg (279.078 nm)	1.8410 (ppm)	1.86	1.8410 (ppm)	3250.9209
3/15/2018 14:04:45	R1801692-011L 10X	Mn (257.610 nm)	0.0096 (ppm)	2.80	0.0096 (ppm)	2525.7856
3/15/2018 14:04:45	R1801692-011L 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.8596
3/15/2018 14:04:45	R1801692-011L 10X	Na (588.995 nm)	12.3247 (ppm)	1.97	12.3247 (ppm)	374622.8367
3/15/2018 14:04:45	R1801692-011L 10X	Ni (230.299 nm)	0.0022 (ppm)	2.29	0.0022 (ppm)	-5.2839
3/15/2018 14:04:45	R1801692-011L 10X	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.3265
3/15/2018 14:04:45	R1801692-011L 10X	Sb (217.582 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	3.4745
3/15/2018 14:04:45	R1801692-011L 10X	Se (196.026 nm)	0.0023 (ppm)	62.27	0.0023 (ppm)	-0.2006
3/15/2018 14:04:45	R1801692-011L 10X	Sn (189.925 nm)	0.0030 (ppm)	23.17	0.0030 (ppm)	1.4452
3/15/2018 14:04:45	R1801692-011L 10X	Sr (216.596 nm)	0.0981 (ppm)	2.20	0.0981 (ppm)	1210.5927
3/15/2018 14:04:45	R1801692-011L 10X	Ti (336.122 nm)	0.0024 (ppm)	1.42	0.0024 (ppm)	-230.6518
3/15/2018 14:04:45	R1801692-011L 10X	Ti (351.923 nm)	0.0020 (ppm)	23.83	0.0020 (ppm)	12.7263
3/15/2018 14:04:45	R1801692-011L 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	133.7563
3/15/2018 14:04:45	R1801692-011L 10X	Y (360.074 nm)	1.07 (Ratio)	1.80	1.07 (Ratio)	756037.40
3/15/2018 14:04:45	R1801692-011L 10X	Y_R (360.074 nm)	1.08 (Ratio)	1.79	1.08 (Ratio)	755709.33
3/15/2018 14:04:45	R1801692-011L 10X	Zn (213.857 nm)	0.0032 (ppm)	3.64	0.0032 (ppm)	74.0677
3/15/2018 14:08:04	R1801692-012 10X	Ag (328.068 nm)	-0.0003 u (ppm)	24.02	-0.0003 (ppm)	-112.3171

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:08:04	R1801692-012 10X	Al (394.401 nm)	0.0454 (ppm)	0.52	0.0454 (ppm)	598.7731
3/15/2018 14:08:04	R1801692-012 10X	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-4.5030
3/15/2018 14:08:04	R1801692-012 10X	B (249.772 nm)	0.0027 (ppm)	13.27	0.0027 (ppm)	196.5190
3/15/2018 14:08:04	R1801692-012 10X	Ba (230.424 nm)	0.2579 (ppm)	1.28	0.2579 (ppm)	7226.8760
3/15/2018 14:08:04	R1801692-012 10X	Be (313.107 nm)	0.0000 (ppm)	67.56	0.0000 (ppm)	-573.4927
3/15/2018 14:08:04	R1801692-012 10X	Ca (227.547 nm)	105.7326 u (ppm)	0.28	105.7326 (ppm)	4673.3083
3/15/2018 14:08:04	R1801692-012 10X	Cd (214.439 nm)	-0.0003 u (ppm)	24.47	-0.0003 (ppm)	9.0843
3/15/2018 14:08:04	R1801692-012 10X	Co (230.786 nm)	0.0003 (ppm)	81.64	0.0003 (ppm)	-2.8947
3/15/2018 14:08:04	R1801692-012 10X	Cr (267.716 nm)	-0.0003 u (ppm)	45.82	-0.0003 (ppm)	-13.0232
3/15/2018 14:08:04	R1801692-012 10X	Cu (327.395 nm)	0.0002 (ppm)	58.77	0.0002 (ppm)	24.8751
3/15/2018 14:08:04	R1801692-012 10X	Fe (234.350 nm)	0.6191 (ppm)	0.83	0.6191 (ppm)	5846.7272
3/15/2018 14:08:04	R1801692-012 10X	K (766.491 nm)	7.9356 (ppm)	0.45	7.9356 (ppm)	17313.9966
3/15/2018 14:08:04	R1801692-012 10X	Mg (279.078 nm)	12.9290 (ppm)	0.24	12.9290 (ppm)	22868.1030
3/15/2018 14:08:04	R1801692-012 10X	Mn (257.610 nm)	0.1192 (ppm)	0.32	0.1192 (ppm)	31116.4159
3/15/2018 14:08:04	R1801692-012 10X	Mo (202.032 nm)	-0.0002 u (ppm)	53.94	-0.0002 (ppm)	3.9850
3/15/2018 14:08:04	R1801692-012 10X	Na (588.995 nm)	45.6402 (ppm)	0.39	45.6402 (ppm)	1411496.4692
3/15/2018 14:08:04	R1801692-012 10X	Ni (230.299 nm)	0.0010 (ppm)	59.59	0.0010 (ppm)	-12.6573
3/15/2018 14:08:04	R1801692-012 10X	Pb (220.353 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	2.3484
3/15/2018 14:08:04	R1801692-012 10X	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	2.2216
3/15/2018 14:08:04	R1801692-012 10X	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-2.4300
3/15/2018 14:08:04	R1801692-012 10X	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.4350
3/15/2018 14:08:04	R1801692-012 10X	Sr (216.596 nm)	0.6800 (ppm)	0.41	0.6800 (ppm)	8407.7953
3/15/2018 14:08:04	R1801692-012 10X	Ti (336.122 nm)	0.0032 (ppm)	3.28	0.0032 (ppm)	-113.7142
3/15/2018 14:08:04	R1801692-012 10X	Tl (351.923 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	14.1397
3/15/2018 14:08:04	R1801692-012 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	134.8385
3/15/2018 14:08:04	R1801692-012 10X	Y (360.074 nm)	1.05 (Ratio)	0.85	1.05 (Ratio)	738723.11
3/15/2018 14:08:04	R1801692-012 10X	Y_R (360.074 nm)	1.05 (Ratio)	0.85	1.05 (Ratio)	738569.42
3/15/2018 14:08:04	R1801692-012 10X	Zn (213.857 nm)	0.0098 (ppm)	0.48	0.0098 (ppm)	251.6149
3/15/2018 14:11:23	R1801692-013 10X	Ag (328.068 nm)	-0.0003 u (ppm)	29.77	-0.0003 (ppm)	-111.0620
3/15/2018 14:11:23	R1801692-013 10X	Al (394.401 nm)	0.0356 (ppm)	4.33	0.0356 (ppm)	501.4301
3/15/2018 14:11:23	R1801692-013 10X	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-3.6687
3/15/2018 14:11:23	R1801692-013 10X	B (249.772 nm)	0.0028 (ppm)	15.78	0.0028 (ppm)	200.2681
3/15/2018 14:11:23	R1801692-013 10X	Ba (230.424 nm)	0.2685 (ppm)	4.83	0.2685 (ppm)	7523.6436
3/15/2018 14:11:23	R1801692-013 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-572.5664
3/15/2018 14:11:23	R1801692-013 10X	Ca (227.547 nm)	108.9327 u (ppm)	4.94	108.9327 (ppm)	4814.6110
3/15/2018 14:11:23	R1801692-013 10X	Cd (214.439 nm)	-0.0004 u (ppm)	14.19	-0.0004 (ppm)	5.8663
3/15/2018 14:11:23	R1801692-013 10X	Co (230.786 nm)	0.0002 (ppm)	46.23	0.0002 (ppm)	-3.6665
3/15/2018 14:11:23	R1801692-013 10X	Cr (267.716 nm)	-0.0004 u (ppm)	51.31	-0.0004 (ppm)	-14.6407
3/15/2018 14:11:23	R1801692-013 10X	Cu (327.395 nm)	0.0002 (ppm)	88.74	0.0002 (ppm)	24.5651
3/15/2018 14:11:23	R1801692-013 10X	Fe (234.350 nm)	0.6243 (ppm)	5.52	0.6243 (ppm)	5896.0284
3/15/2018 14:11:23	R1801692-013 10X	K (766.491 nm)	8.1722 (ppm)	4.71	8.1722 (ppm)	17830.7336
3/15/2018 14:11:23	R1801692-013 10X	Mg (279.078 nm)	13.2395 (ppm)	5.11	13.2395 (ppm)	23417.4093
3/15/2018 14:11:23	R1801692-013 10X	Mn (257.610 nm)	0.1221 (ppm)	5.09	0.1221 (ppm)	31859.9848
3/15/2018 14:11:23	R1801692-013 10X	Mo (202.032 nm)	-0.0005 u (ppm)	81.57	-0.0005 (ppm)	1.4182
3/15/2018 14:11:23	R1801692-013 10X	Na (588.995 nm)	47.1740 (ppm)	5.04	47.1740 (ppm)	1459231.7267
3/15/2018 14:11:23	R1801692-013 10X	Ni (230.299 nm)	0.0007 (ppm)	17.18	0.0007 (ppm)	-14.5611
3/15/2018 14:11:23	R1801692-013 10X	Pb (220.353 nm)	-0.0028 u (ppm)	26.09	-0.0028 (ppm)	0.1394
3/15/2018 14:11:23	R1801692-013 10X	Sb (217.582 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	0.4538
3/15/2018 14:11:23	R1801692-013 10X	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-3.1575
3/15/2018 14:11:23	R1801692-013 10X	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.7957
3/15/2018 14:11:23	R1801692-013 10X	Sr (216.596 nm)	0.7079 (ppm)	4.64	0.7079 (ppm)	8752.9617



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:11:23	R1801692-013 10X	Ti (336.122 nm)	0.0030 (ppm)	1.96	0.0030 (ppm)	-138.3939
3/15/2018 14:11:23	R1801692-013 10X	Ti (351.923 nm)	-0.0020 u (ppm)	58.17	-0.0020 (ppm)	4.0682
3/15/2018 14:11:23	R1801692-013 10X	V (292.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	136.7943
3/15/2018 14:11:23	R1801692-013 10X	Y (360.074 nm)	1.04 (Ratio)	4.73	1.04 (Ratio)	733242.93
3/15/2018 14:11:23	R1801692-013 10X	Y_R (360.074 nm)	1.04 (Ratio)	4.73	1.04 (Ratio)	733139.71
3/15/2018 14:11:23	R1801692-013 10X	Zn (213.857 nm)	0.0097 (ppm)	4.48	0.0097 (ppm)	248.1461
3/15/2018 14:14:42	R1801692-014 10X	Ag (328.068 nm)	-0.0002 u (ppm)	28.78	-0.0002 (ppm)	-106.0924
3/15/2018 14:14:42	R1801692-014 10X	Al (394.401 nm)	0.0586 (ppm)	2.29	0.0586 (ppm)	729.4012
3/15/2018 14:14:42	R1801692-014 10X	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-5.4926
3/15/2018 14:14:42	R1801692-014 10X	B (249.772 nm)	0.0030 (ppm)	9.58	0.0030 (ppm)	204.0967
3/15/2018 14:14:42	R1801692-014 10X	Ba (230.424 nm)	0.0058 (ppm)	6.25	0.0058 (ppm)	168.0441
3/15/2018 14:14:42	R1801692-014 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-582.1968
3/15/2018 14:14:42	R1801692-014 10X	Ca (227.547 nm)	61.3513 o (ppm)	1.53	61.3513 (ppm)	2713.5759
3/15/2018 14:14:42	R1801692-014 10X	Cd (214.439 nm)	-0.0004 u (ppm)	17.88	-0.0004 (ppm)	6.7128
3/15/2018 14:14:42	R1801692-014 10X	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.6350
3/15/2018 14:14:42	R1801692-014 10X	Cr (267.716 nm)	-0.0002 u (ppm)	59.31	-0.0002 (ppm)	-6.2236
3/15/2018 14:14:42	R1801692-014 10X	Cu (327.395 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	24.1247
3/15/2018 14:14:42	R1801692-014 10X	Fe (234.350 nm)	0.2291 (ppm)	1.73	0.2291 (ppm)	2174.3481
3/15/2018 14:14:42	R1801692-014 10X	K (766.491 nm)	2.1316 (ppm)	1.85	2.1316 (ppm)	4643.2005
3/15/2018 14:14:42	R1801692-014 10X	Mg (279.078 nm)	9.8252 (ppm)	1.64	9.8252 (ppm)	17376.7316
3/15/2018 14:14:42	R1801692-014 10X	Mn (257.610 nm)	0.0827 (ppm)	1.57	0.0827 (ppm)	21592.0360
3/15/2018 14:14:42	R1801692-014 10X	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.5868
3/15/2018 14:14:42	R1801692-014 10X	Nb (588.995 nm)	55.9170 o (ppm)	1.75	55.9170 (ppm)	173134.1242
3/15/2018 14:14:42	R1801692-014 10X	Ni (230.299 nm)	0.0009 (ppm)	22.39	0.0009 (ppm)	-12.9673
3/15/2018 14:14:42	R1801692-014 10X	Pb (220.353 nm)	-0.0019 u (ppm)	32.15	-0.0019 (ppm)	2.0138
3/15/2018 14:14:42	R1801692-014 10X	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	3.8967
3/15/2018 14:14:42	R1801692-014 10X	Se (196.026 nm)	0.0026 (ppm)	66.22	0.0026 (ppm)	0.0836
3/15/2018 14:14:42	R1801692-014 10X	Sn (189.925 nm)	0.0022 (ppm)	53.99	0.0022 (ppm)	0.5985
3/15/2018 14:14:42	R1801692-014 10X	Sr (216.596 nm)	0.4474 (ppm)	1.78	0.4474 (ppm)	5530.5631
3/15/2018 14:14:42	R1801692-014 10X	Ti (336.122 nm)	0.0033 (ppm)	1.76	0.0033 (ppm)	-84.7487
3/15/2018 14:14:42	R1801692-014 10X	Ti (351.923 nm)	0.0045 (ppm)	> 100.00	0.0045 (ppm)	17.9640
3/15/2018 14:14:42	R1801692-014 10X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	130.5954
3/15/2018 14:14:42	R1801692-014 10X	Y (360.074 nm)	1.05 (Ratio)	1.66	1.05 (Ratio)	737322.13
3/15/2018 14:14:42	R1801692-014 10X	Y_R (360.074 nm)	1.05 (Ratio)	1.65	1.05 (Ratio)	737169.75
3/15/2018 14:14:42	R1801692-014 10X	Zn (213.857 nm)	0.0029 (ppm)	1.14	0.0029 (ppm)	65.7630
3/15/2018 14:18:01	R1801692-016 10X	Ag (328.068 nm)	-0.0003 u (ppm)	18.20	-0.0003 (ppm)	-110.0613
3/15/2018 14:18:01	R1801692-016 10X	Al (394.401 nm)	0.0222 (ppm)	7.38	0.0222 (ppm)	368.0419
3/15/2018 14:18:01	R1801692-016 10X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-4.0309
3/15/2018 14:18:01	R1801692-016 10X	B (249.772 nm)	0.0026 (ppm)	4.69	0.0026 (ppm)	194.0696
3/15/2018 14:18:01	R1801692-016 10X	Ba (230.424 nm)	0.0083 (ppm)	1.64	0.0083 (ppm)	238.0974
3/15/2018 14:18:01	R1801692-016 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-580.4493
3/15/2018 14:18:01	R1801692-016 10X	Ca (227.547 nm)	54.0186 o (ppm)	1.70	54.0186 (ppm)	2389.7849
3/15/2018 14:18:01	R1801692-016 10X	Cd (214.439 nm)	-0.0003 u (ppm)	46.88	-0.0003 (ppm)	8.7070
3/15/2018 14:18:01	R1801692-016 10X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.5884
3/15/2018 14:18:01	R1801692-016 10X	Cr (267.716 nm)	-0.0004 u (ppm)	18.93	-0.0004 (ppm)	-13.3593
3/15/2018 14:18:01	R1801692-016 10X	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.8738
3/15/2018 14:18:01	R1801692-016 10X	Fe (234.350 nm)	0.3866 (ppm)	1.70	0.3866 (ppm)	3657.3512
3/15/2018 14:18:01	R1801692-016 10X	K (766.491 nm)	2.2027 (ppm)	1.63	2.2027 (ppm)	4798.5136
3/15/2018 14:18:01	R1801692-016 10X	Mg (279.078 nm)	3.4561 (ppm)	1.58	3.4561 (ppm)	6108.4665
3/15/2018 14:18:01	R1801692-016 10X	Mn (257.610 nm)	0.0660 (ppm)	1.51	0.0660 (ppm)	17241.1948
3/15/2018 14:18:01	R1801692-016 10X	Mo (202.032 nm)	-0.0006 u (ppm)	11.84	-0.0006 (ppm)	1.2749

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:18:01	R1801692-016 10X	Na (588.995 nm)	36.6705 (ppm)	1.77	36.6705 (ppm)	1132334.5675
3/15/2018 14:18:01	R1801692-016 10X	Ni (230.299 nm)	0.0007 (ppm)	51.46	0.0007 (ppm)	-14.0843
3/15/2018 14:18:01	R1801692-016 10X	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2865
3/15/2018 14:18:01	R1801692-016 10X	Sb (217.582 nm)	0.0024 (ppm)	> 100.00	0.0024 (ppm)	5.3760
3/15/2018 14:18:01	R1801692-016 10X	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-3.6868
3/15/2018 14:18:01	R1801692-016 10X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.9920
3/15/2018 14:18:01	R1801692-016 10X	Sr (216.596 nm)	0.3855 (ppm)	1.62	0.3855 (ppm)	4764.8911
3/15/2018 14:18:01	R1801692-016 10X	Ti (336.122 nm)	0.0025 (ppm)	1.35	0.0025 (ppm)	-220.7497
3/15/2018 14:18:01	R1801692-016 10X	Tl (351.923 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	13.2428
3/15/2018 14:18:01	R1801692-016 10X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	133.9860
3/15/2018 14:18:01	R1801692-016 10X	Y (360.074 nm)	1.06 (Ratio)	1.56	1.06 (Ratio)	744683.98
3/15/2018 14:18:01	R1801692-016 10X	Y_R (360.074 nm)	1.06 (Ratio)	1.56	1.06 (Ratio)	744522.24
3/15/2018 14:18:01	R1801692-016 10X	Zn (213.857 nm)	0.0034 (ppm)	4.81	0.0034 (ppm)	79.1152
3/15/2018 14:21:20	R1801692-017 10X	Ag (328.068 nm)	-0.0004 u (ppm)	6.82	-0.0004 (ppm)	-117.1976
3/15/2018 14:21:20	R1801692-017 10X	Al (394.401 nm)	0.0223 (ppm)	3.25	0.0223 (ppm)	369.6627
3/15/2018 14:21:20	R1801692-017 10X	As (188.980 nm)	0.0042 (ppm)	45.04	0.0042 (ppm)	-1.2133
3/15/2018 14:21:20	R1801692-017 10X	B (249.772 nm)	0.0032 (ppm)	4.55	0.0032 (ppm)	209.5189
3/15/2018 14:21:20	R1801692-017 10X	Ba (230.424 nm)	0.0095 (ppm)	1.78	0.0095 (ppm)	273.5111
3/15/2018 14:21:20	R1801692-017 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-569.5341
3/15/2018 14:21:20	R1801692-017 10X	Ca (227.547 nm)	73.1934 o (ppm)	1.87	73.1934 (ppm)	3236.4818
3/15/2018 14:21:20	R1801692-017 10X	Cd (214.439 nm)	-0.0005 u (ppm)	25.41	-0.0005 (ppm)	5.4706
3/15/2018 14:21:20	R1801692-017 10X	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-2.7541
3/15/2018 14:21:20	R1801692-017 10X	Cr (267.716 nm)	-0.0004 u (ppm)	7.67	-0.0004 (ppm)	-14.6592
3/15/2018 14:21:20	R1801692-017 10X	Cu (327.395 nm)	0.0001 (ppm)	83.87	0.0001 (ppm)	22.1016
3/15/2018 14:21:20	R1801692-017 10X	Fe (234.350 nm)	0.0318 (ppm)	2.00	0.0318 (ppm)	316.9356
3/15/2018 14:21:20	R1801692-017 10X	K (766.491 nm)	2.8347 (ppm)	1.66	2.8347 (ppm)	6178.2448
3/15/2018 14:21:20	R1801692-017 10X	Mg (279.078 nm)	5.5653 (ppm)	1.69	5.5653 (ppm)	9840.0949
3/15/2018 14:21:20	R1801692-017 10X	Mn (252.610 nm)	0.1052 (ppm)	1.61	0.1052 (ppm)	27460.2520
3/15/2018 14:21:20	R1801692-017 10X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.0589
3/15/2018 14:21:20	R1801692-017 10X	Na (588.995 nm)	42.7946 (ppm)	1.81	42.7946 (ppm)	1322935.2961
3/15/2018 14:21:20	R1801692-017 10X	Ni (230.299 nm)	0.0012 (ppm)	17.78	0.0012 (ppm)	-11.2213
3/15/2018 14:21:20	R1801692-017 10X	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.2228
3/15/2018 14:21:20	R1801692-017 10X	Sb (217.582 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	4.8226
3/15/2018 14:21:20	R1801692-017 10X	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.1845
3/15/2018 14:21:20	R1801692-017 10X	Sn (189.925 nm)	0.0014 (ppm)	82.39	0.0014 (ppm)	-0.2802
3/15/2018 14:21:20	R1801692-017 10X	Sr (216.596 nm)	0.4670 (ppm)	1.54	0.4670 (ppm)	5773.6103
3/15/2018 14:21:20	R1801692-017 10X	Ti (336.122 nm)	0.0026 (ppm)	0.99	0.0026 (ppm)	-203.5173
3/15/2018 14:21:20	R1801692-017 10X	Tl (351.923 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	11.5651
3/15/2018 14:21:20	R1801692-017 10X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	129.8125
3/15/2018 14:21:20	R1801692-017 10X	Y (360.074 nm)	1.05 (Ratio)	1.68	1.05 (Ratio)	740828.40
3/15/2018 14:21:20	R1801692-017 10X	Y_R (360.074 nm)	1.05 (Ratio)	1.68	1.05 (Ratio)	740650.12
3/15/2018 14:21:20	R1801692-017 10X	Zn (213.857 nm)	0.0032 (ppm)	0.87	0.0032 (ppm)	72.1471
3/15/2018 14:24:40	R1801692-018 100X	Ag (328.068 nm)	-0.0003 u (ppm)	60.20	-0.0003 (ppm)	-113.8480
3/15/2018 14:24:40	R1801692-018 100X	Al (394.401 nm)	0.0073 (ppm)	7.36	0.0073 (ppm)	220.5129
3/15/2018 14:24:40	R1801692-018 100X	As (188.980 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-5.1784
3/15/2018 14:24:40	R1801692-018 100X	B (249.772 nm)	-0.0026 u (ppm)	2.41	-0.0026 (ppm)	64.8998
3/15/2018 14:24:40	R1801692-018 100X	Ba (230.424 nm)	0.0051 (ppm)	2.56	0.0051 (ppm)	148.0696
3/15/2018 14:24:40	R1801692-018 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-567.0210
3/15/2018 14:24:40	R1801692-018 100X	Ca (227.547 nm)	16.5831 (ppm)	0.43	16.5831 (ppm)	736.7574
3/15/2018 14:24:40	R1801692-018 100X	Cd (214.439 nm)	-0.0004 u (ppm)	33.35	-0.0004 (ppm)	7.2657
3/15/2018 14:24:40	R1801692-018 100X	Co (230.786 nm)	0.0003 (ppm)	55.37	0.0003 (ppm)	-2.4258

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:24:40	R1801692-018 100X	Cr (267.716 nm)	-0.0003 u (ppm)	29.99	-0.0003 (ppm)	-11.7663
3/15/2018 14:24:40	R1801692-018 100X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.6850
3/15/2018 14:24:40	R1801692-018 100X	Fe (234.350 nm)	-0.0002 u (ppm)	76.13	-0.0002 (ppm)	15.1018
3/15/2018 14:24:40	R1801692-018 100X	K (766.491 nm)	0.3805 (ppm)	0.99	0.3805 (ppm)	820.2593
3/15/2018 14:24:40	R1801692-018 100X	Mg (279.078 nm)	0.3307 (ppm)	0.71	0.3307 (ppm)	578.8517
3/15/2018 14:24:40	R1801692-018 100X	Mn (257.610 nm)	0.0005 (ppm)	5.94	0.0005 (ppm)	148.4000
3/15/2018 14:24:40	R1801692-018 100X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.0683
3/15/2018 14:24:40	R1801692-018 100X	Na (588.995 nm)	11.7499 (ppm)	0.28	11.7499 (ppm)	356733.1891
3/15/2018 14:24:40	R1801692-018 100X	Ni (230.299 nm)	0.0015 (ppm)	41.90	0.0015 (ppm)	-9.2255
3/15/2018 14:24:40	R1801692-018 100X	Pb (220.353 nm)	-0.0016 u (ppm)	33.89	-0.0016 (ppm)	2.5213
3/15/2018 14:24:40	R1801692-018 100X	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	2.6904
3/15/2018 14:24:40	R1801692-018 100X	Se (196.026 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-0.7724
3/15/2018 14:24:40	R1801692-018 100X	Sn (189.925 nm)	0.0022 (ppm)	16.31	0.0022 (ppm)	0.5599
3/15/2018 14:24:40	R1801692-018 100X	Sr (216.596 nm)	0.0754 (ppm)	0.58	0.0754 (ppm)	930.0110
3/15/2018 14:24:40	R1801692-018 100X	Ti (336.122 nm)	0.0023 (ppm)	5.47	0.0023 (ppm)	-246.8711
3/15/2018 14:24:40	R1801692-018 100X	Ti (351.923 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	11.1675
3/15/2018 14:24:40	R1801692-018 100X	V (292.401 nm)	-0.0001 u (ppm)	87.79	-0.0001 (ppm)	129.2419
3/15/2018 14:24:40	R1801692-018 100X	Y (360.074 nm)	1.08 (Ratio)	0.60	1.08 (Ratio)	757778.53
3/15/2018 14:24:40	R1801692-018 100X	Y_R (360.074 nm)	1.08 (Ratio)	0.60	1.08 (Ratio)	757533.27
3/15/2018 14:24:40	R1801692-018 100X	Zn (213.857 nm)	0.0044 (ppm)	1.07	0.0044 (ppm)	105.7516
3/15/2018 14:27:59	Continuing Calibration Verification	Ag (328.068 nm)	0.4864 (ppm)	0.25	0.4864 (ppm)	28178.4623
3/15/2018 14:27:59	Continuing Calibration Verification	Al (394.401 nm)	9.7819 (ppm)	0.28	9.7819 (ppm)	97153.0899
3/15/2018 14:27:59	Continuing Calibration Verification	As (188.980 nm)	0.9851 (ppm)	0.41	0.9851 (ppm)	814.9896
3/15/2018 14:27:59	Continuing Calibration Verification	B (249.772 nm)	2.4676 (ppm)	0.28	2.4676 (ppm)	61783.4064
3/15/2018 14:27:59	Continuing Calibration Verification	Ba (230.424 nm)	10.1912 (ppm)	0.18	10.1912 (ppm)	285357.1700
3/15/2018 14:27:59	Continuing Calibration Verification	Be (313.107 nm)	0.2553 (ppm)	0.25	0.2553 (ppm)	315705.2655
3/15/2018 14:27:59	Continuing Calibration Verification	Ca (227.547 nm)	24.6375 (ppm)	0.21	24.6375 (ppm)	1092.4130
3/15/2018 14:27:59	Continuing Calibration Verification	Cd (214.439 nm)	0.4972 (ppm)	0.14	0.4972 (ppm)	9955.0399
3/15/2018 14:27:59	Continuing Calibration Verification	Co (230.786 nm)	2.5526 (ppm)	0.18	2.5526 (ppm)	22572.5385
3/15/2018 14:27:59	Continuing Calibration Verification	Cr (267.716 nm)	0.5270 (ppm)	0.20	0.5270 (ppm)	21033.8975
3/15/2018 14:27:59	Continuing Calibration Verification	Cu (327.395 nm)	1.2491 (ppm)	0.32	1.2491 (ppm)	58752.4444
3/15/2018 14:27:59	Continuing Calibration Verification	Fe (234.350 nm)	4.9805 (ppm)	0.16	4.9805 (ppm)	46912.8367
3/15/2018 14:27:59	Continuing Calibration Verification	K (766.491 nm)	25.7551 (ppm)	0.53	25.7551 (ppm)	56216.3383
3/15/2018 14:27:59	Continuing Calibration Verification	Mg (279.078 nm)	24.7270 (ppm)	0.16	24.7270 (ppm)	43741.3115
3/15/2018 14:27:59	Continuing Calibration Verification	Mn (257.610 nm)	0.7719 (ppm)	0.21	0.7719 (ppm)	201384.4237
3/15/2018 14:27:59	Continuing Calibration Verification	Mo (202.032 nm)	2.5032 (ppm)	0.19	2.5032 (ppm)	21124.0061
3/15/2018 14:27:59	Continuing Calibration Verification	Na (588.995 nm)	26.3517 (ppm)	0.35	26.3517 (ppm)	811184.8684
3/15/2018 14:27:59	Continuing Calibration Verification	Ni (230.299 nm)	2.0412 (ppm)	0.27	2.0412 (ppm)	12370.1908
3/15/2018 14:27:59	Continuing Calibration Verification	Pb (220.353 nm)	0.5001 (ppm)	0.49	0.5001 (ppm)	979.0092
3/15/2018 14:27:59	Continuing Calibration Verification	Sb (217.582 nm)	5.0467 (ppm)	0.27	5.0467 (ppm)	6131.4000
3/15/2018 14:27:59	Continuing Calibration Verification	Se (196.026 nm)	0.5037 (ppm)	0.77	0.5037 (ppm)	417.8611
3/15/2018 14:27:59	Continuing Calibration Verification	Sn (189.925 nm)	4.9644 (ppm)	0.13	4.9644 (ppm)	5482.8480
3/15/2018 14:27:59	Continuing Calibration Verification	Sr (216.596 nm)	2.5107 (ppm)	0.37	2.5107 (ppm)	31048.8139
3/15/2018 14:27:59	Continuing Calibration Verification	Ti (336.122 nm)	2.5131 (ppm)	0.22	2.5131 (ppm)	407543.3780
3/15/2018 14:27:59	Continuing Calibration Verification	Ti (351.923 nm)	1.0217 (ppm)	0.93	1.0217 (ppm)	2207.1275
3/15/2018 14:27:59	Continuing Calibration Verification	V (292.401 nm)	2.5312 (ppm)	0.24	2.5312 (ppm)	73778.5277
3/15/2018 14:27:59	Continuing Calibration Verification	Y (360.074 nm)	1.03 (Ratio)	0.74	1.03 (Ratio)	725512.29
3/15/2018 14:27:59	Continuing Calibration Verification	Y_R (360.074 nm)	1.03 (Ratio)	0.74	1.03 (Ratio)	725249.95
3/15/2018 14:27:59	Continuing Calibration Verification	Zn (213.857 nm)	0.9567 (ppm)	0.20	0.9567 (ppm)	25950.6366
3/15/2018 14:31:18	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	26.23	0.0001 (ppm)	-90.2395
3/15/2018 14:31:18	Continuing Calibration Blank	Al (394.401 nm)	0.0028 (ppm)	21.06	0.0028 (ppm)	176.3426

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:31:18	Continuing Calibration Blank	As (188.980 nm)	0.0047 (ppm)	54.91	0.0047 (ppm)	-0.7227
3/15/2018 14:31:18	Continuing Calibration Blank	B (249.772 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	128.4985
3/15/2018 14:31:18	Continuing Calibration Blank	Ba (230.424 nm)	0.0055 (ppm)	4.35	0.0055 (ppm)	160.1742
3/15/2018 14:31:18	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	6.53	0.0002 (ppm)	-378.1679
3/15/2018 14:31:18	Continuing Calibration Blank	Ca (227.547 nm)	0.0592 (ppm)	36.67	0.0592 (ppm)	7.1157
3/15/2018 14:31:18	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	42.17	0.0002 (ppm)	19.4711
3/15/2018 14:31:18	Continuing Calibration Blank	Co (230.786 nm)	0.0013 (ppm)	37.56	0.0013 (ppm)	5.9299
3/15/2018 14:31:18	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	38.94	0.0002 (ppm)	9.6967
3/15/2018 14:31:18	Continuing Calibration Blank	Cu (327.395 nm)	0.0006 (ppm)	17.15	0.0006 (ppm)	44.2815
3/15/2018 14:31:18	Continuing Calibration Blank	Fe (234.350 nm)	0.0034 (ppm)	5.67	0.0034 (ppm)	49.0933
3/15/2018 14:31:18	Continuing Calibration Blank	K (766.491 nm)	0.0231 (ppm)	34.69	0.0231 (ppm)	40.0421
3/15/2018 14:31:18	Continuing Calibration Blank	Mg (279.078 nm)	0.0138 (ppm)	7.96	0.0138 (ppm)	18.2959
3/15/2018 14:31:18	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	1.44	0.0004 (ppm)	126.0494
3/15/2018 14:31:18	Continuing Calibration Blank	Mo (202.032 nm)	0.0036 (ppm)	3.55	0.0036 (ppm)	36.0598
3/15/2018 14:31:18	Continuing Calibration Blank	Na (588.995 nm)	0.0622 (ppm)	2.24	0.0622 (ppm)	-7021.8011
3/15/2018 14:31:18	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-18.6094
3/15/2018 14:31:18	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.4344
3/15/2018 14:31:18	Continuing Calibration Blank	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	4.1924
3/15/2018 14:31:18	Continuing Calibration Blank	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.2178
3/15/2018 14:31:18	Continuing Calibration Blank	Sn (189.925 nm)	0.0050 (ppm)	16.83	0.0050 (ppm)	3.6578
3/15/2018 14:31:18	Continuing Calibration Blank	Sr (216.596 nm)	0.0013 (ppm)	2.94	0.0013 (ppm)	13.0042
3/15/2018 14:31:18	Continuing Calibration Blank	Ti (336.122 nm)	0.0021 (ppm)	2.54	0.0021 (ppm)	-278.1551
3/15/2018 14:31:18	Continuing Calibration Blank	Tl (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	8.6753
3/15/2018 14:31:18	Continuing Calibration Blank	V (292.401 nm)	0.0011 (ppm)	20.37	0.0011 (ppm)	164.0525
3/15/2018 14:31:18	Continuing Calibration Blank	Y (360.074 nm)	1.06 (Ratio)	0.88	1.06 (Ratio)	749924.57
3/15/2018 14:31:18	Continuing Calibration Blank	Y_R (360.074 nm)	1.07 (Ratio)	0.88	1.07 (Ratio)	749435.73
3/15/2018 14:31:18	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-13.7596
3/15/2018 14:34:37	R1801692-019 10X	Ag (328.068 nm)	-0.0002 u (ppm)	53.00	-0.0002 (ppm)	-108.9170
3/15/2018 14:34:37	R1801692-019 10X	Al (394.401 nm)	0.0276 (ppm)	2.76	0.0276 (ppm)	421.8288
3/15/2018 14:34:37	R1801692-019 10X	As (188.980 nm)	0.0034 u (ppm)	> 100.00	0.0034 (ppm)	-1.8281
3/15/2018 14:34:37	R1801692-019 10X	B (249.772 nm)	0.0080 (ppm)	5.79	0.0080 (ppm)	329.8457
3/15/2018 14:34:37	R1801692-019 10X	Ba (230.424 nm)	0.1509 (ppm)	1.31	0.1509 (ppm)	4232.2367
3/15/2018 14:34:37	R1801692-019 10X	Be (313.107 nm)	0.0000 (ppm)	57.42	0.0000 (ppm)	-567.4274
3/15/2018 14:34:37	R1801692-019 10X	Ca (227.547 nm)	105.3456 u (ppm)	1.65	105.3456 (ppm)	4656.2194
3/15/2018 14:34:37	R1801692-019 10X	Cd (214.439 nm)	-0.0003 u (ppm)	34.53	-0.0003 (ppm)	8.2487
3/15/2018 14:34:37	R1801692-019 10X	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.9061
3/15/2018 14:34:37	R1801692-019 10X	Cr (267.716 nm)	-0.0005 u (ppm)	27.73	-0.0005 (ppm)	-19.6057
3/15/2018 14:34:37	R1801692-019 10X	Cu (327.395 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	25.6090
3/15/2018 14:34:37	R1801692-019 10X	Fe (234.350 nm)	0.0442 (ppm)	1.12	0.0442 (ppm)	433.8284
3/15/2018 14:34:37	R1801692-019 10X	K (766.491 nm)	5.1186 (ppm)	1.82	5.1186 (ppm)	11164.2711
3/15/2018 14:34:37	R1801692-019 10X	Mg (279.078 nm)	7.2388 (ppm)	1.43	7.2388 (ppm)	12800.7466
3/15/2018 14:34:37	R1801692-019 10X	Mn (257.610 nm)	0.0237 (ppm)	1.52	0.0237 (ppm)	6212.4352
3/15/2018 14:34:37	R1801692-019 10X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.5537
3/15/2018 14:34:37	R1801692-019 10X	Na (588.995 nm)	59.5880 u (ppm)	1.47	59.5880 (ppm)	1845592.7788
3/15/2018 14:34:37	R1801692-019 10X	Ni (230.299 nm)	0.0015 (ppm)	55.42	0.0015 (ppm)	-9.5216
3/15/2018 14:34:37	R1801692-019 10X	Pb (220.353 nm)	-0.0019 u (ppm)	66.72	-0.0019 (ppm)	1.9702
3/15/2018 14:34:37	R1801692-019 10X	Sb (217.582 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	2.9335
3/15/2018 14:34:37	R1801692-019 10X	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-3.0042
3/15/2018 14:34:37	R1801692-019 10X	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-1.1276
3/15/2018 14:34:37	R1801692-019 10X	Sr (216.596 nm)	0.5936 (ppm)	2.38	0.5936 (ppm)	7339.2028
3/15/2018 14:34:37	R1801692-019 10X	Ti (336.122 nm)	0.0030 (ppm)	2.20	0.0030 (ppm)	-144.7337

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:34:37	R1801692-019 10X	Ti (351.923 nm)	0.0041 (ppm)	59.77	0.0041 (ppm)	17.0897
3/15/2018 14:34:37	R1801692-019 10X	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	134.1293
3/15/2018 14:34:37	R1801692-019 10X	Y (360.074 nm)	1.04 (Ratio)	1.43	1.04 (Ratio)	732848.54
3/15/2018 14:34:37	R1801692-019 10X	Y_R (360.074 nm)	1.04 (Ratio)	1.43	1.04 (Ratio)	732706.69
3/15/2018 14:34:37	R1801692-019 10X	Zn (213.857 nm)	0.0048 (ppm)	0.85	0.0048 (ppm)	117.0185
3/15/2018 14:37:57	R1801692-020 10X	Ag (328.068 nm)	-0.0003 u (ppm)	24.75	-0.0003 (ppm)	-112.0830
3/15/2018 14:37:57	R1801692-020 10X	Al (394.401 nm)	0.0164 (ppm)	5.46	0.0164 (ppm)	310.9720
3/15/2018 14:37:57	R1801692-020 10X	As (188.980 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-3.1522
3/15/2018 14:37:57	R1801692-020 10X	B (249.772 nm)	0.0019 (ppm)	8.89	0.0019 (ppm)	178.0128
3/15/2018 14:37:57	R1801692-020 10X	Ba (230.424 nm)	0.0050 (ppm)	6.75	0.0050 (ppm)	145.1632
3/15/2018 14:37:57	R1801692-020 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-563.5207
3/15/2018 14:37:57	R1801692-020 10X	Ca (227.547 nm)	33.0184 (ppm)	1.76	33.0184 (ppm)	1462.4871
3/15/2018 14:37:57	R1801692-020 10X	Cd (214.439 nm)	-0.0002 u (ppm)	6.79	-0.0002 (ppm)	10.4552
3/15/2018 14:37:57	R1801692-020 10X	Co (230.786 nm)	0.0002 (ppm)	86.52	0.0002 (ppm)	-3.3194
3/15/2018 14:37:57	R1801692-020 10X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.0049
3/15/2018 14:37:57	R1801692-020 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.4104
3/15/2018 14:37:57	R1801692-020 10X	Fe (234.350 nm)	0.0036 (ppm)	5.05	0.0036 (ppm)	51.1442
3/15/2018 14:37:57	R1801692-020 10X	K (766.491 nm)	0.7476 (ppm)	2.19	0.7476 (ppm)	1621.7586
3/15/2018 14:37:57	R1801692-020 10X	Mg (279.078 nm)	3.9184 (ppm)	1.50	3.9184 (ppm)	6926.3170
3/15/2018 14:37:57	R1801692-020 10X	Mn (257.610 nm)	0.0219 (ppm)	1.51	0.0219 (ppm)	5732.7002
3/15/2018 14:37:57	R1801692-020 10X	Mo (202.032 nm)	-0.0003 u (ppm)	92.00	-0.0003 (ppm)	3.0748
3/15/2018 14:37:57	R1801692-020 10X	Na (588.995 nm)	21.6395 (ppm)	1.79	21.6395 (ppm)	664527.7674
3/15/2018 14:37:57	R1801692-020 10X	Ni (230.299 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-17.5387
3/15/2018 14:37:57	R1801692-020 10X	Pb (220.353 nm)	-0.0016 u (ppm)	21.40	-0.0016 (ppm)	2.5413
3/15/2018 14:37:57	R1801692-020 10X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	3.0891
3/15/2018 14:37:57	R1801692-020 10X	Se (196.026 nm)	-0.0030 u (ppm)	93.90	-0.0030 (ppm)	-4.6045
3/15/2018 14:37:57	R1801692-020 10X	Sn (189.925 nm)	0.0027 (ppm)	56.38	0.0027 (ppm)	1.1793
3/15/2018 14:37:57	R1801692-020 10X	Sr (216.596 nm)	0.2731 (ppm)	1.78	0.2731 (ppm)	3374.9344
3/15/2018 14:37:57	R1801692-020 10X	Ti (336.122 nm)	0.0024 (ppm)	0.37	0.0024 (ppm)	-233.5228
3/15/2018 14:37:57	R1801692-020 10X	Ti (351.923 nm)	0.0012 (ppm)	67.43	0.0012 (ppm)	10.8766
3/15/2018 14:37:57	R1801692-020 10X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	130.2882
3/15/2018 14:37:57	R1801692-020 10X	Y (360.074 nm)	1.06 (Ratio)	1.77	1.06 (Ratio)	745105.08
3/15/2018 14:37:57	R1801692-020 10X	Y_R (360.074 nm)	1.06 (Ratio)	1.77	1.06 (Ratio)	744961.27
3/15/2018 14:37:57	R1801692-020 10X	Zn (213.857 nm)	0.0050 (ppm)	2.73	0.0050 (ppm)	120.6755
3/15/2018 14:41:16	R1801692-021 100X	Ag (328.068 nm)	-0.0003 u (ppm)	60.11	-0.0003 (ppm)	-111.9338
3/15/2018 14:41:16	R1801692-021 100X	Al (394.401 nm)	0.0083 (ppm)	1.57	0.0083 (ppm)	230.8287
3/15/2018 14:41:16	R1801692-021 100X	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-4.5367
3/15/2018 14:41:16	R1801692-021 100X	B (249.772 nm)	-0.0019 u (ppm)	5.62	-0.0019 (ppm)	81.2877
3/15/2018 14:41:16	R1801692-021 100X	Ba (230.424 nm)	0.0236 (ppm)	3.19	0.0236 (ppm)	667.4811
3/15/2018 14:41:16	R1801692-021 100X	Be (313.107 nm)	0.0000 (ppm)	43.28	0.0000 (ppm)	-563.6423
3/15/2018 14:41:16	R1801692-021 100X	Ca (227.547 nm)	14.5900 (ppm)	2.30	14.5900 (ppm)	648.7468
3/15/2018 14:41:16	R1801692-021 100X	Cd (214.439 nm)	-0.0004 u (ppm)	8.73	-0.0004 (ppm)	6.2765
3/15/2018 14:41:16	R1801692-021 100X	Co (230.786 nm)	0.0003 (ppm)	56.17	0.0003 (ppm)	-2.4535
3/15/2018 14:41:16	R1801692-021 100X	Cr (267.716 nm)	-0.0003 u (ppm)	46.28	-0.0003 (ppm)	-11.6105
3/15/2018 14:41:16	R1801692-021 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.3648
3/15/2018 14:41:16	R1801692-021 100X	Fe (234.350 nm)	0.0080 (ppm)	5.51	0.0080 (ppm)	92.5797
3/15/2018 14:41:16	R1801692-021 100X	K (766.491 nm)	0.6956 (ppm)	1.66	0.6956 (ppm)	1508.3330
3/15/2018 14:41:16	R1801692-021 100X	Mg (279.078 nm)	1.9007 (ppm)	1.65	1.9007 (ppm)	3356.4873
3/15/2018 14:41:16	R1801692-021 100X	Mn (257.610 nm)	0.0691 (ppm)	1.46	0.0691 (ppm)	18053.9096
3/15/2018 14:41:16	R1801692-021 100X	Mo (202.032 nm)	-0.0005 u (ppm)	42.58	-0.0005 (ppm)	2.0268
3/15/2018 14:41:16	R1801692-021 100X	Na (588.995 nm)	8.8684 (ppm)	1.89	8.8684 (ppm)	267052.0214

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:41:16	R1801692-021 100X	Ni (230.299 nm)	0.0013 (ppm)	14.06	0.0013 (ppm)	-10.9096
3/15/2018 14:41:16	R1801692-021 100X	Pb (220.353 nm)	-0.0016 u (ppm)	69.37	-0.0016 (ppm)	2.4572
3/15/2018 14:41:16	R1801692-021 100X	Sb (217.582 nm)	0.0018 (ppm)	> 100.00	0.0018 (ppm)	4.6239
3/15/2018 14:41:16	R1801692-021 100X	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-1.3468
3/15/2018 14:41:16	R1801692-021 100X	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-0.4333
3/15/2018 14:41:16	R1801692-021 100X	Sr (216.596 nm)	0.0908 (ppm)	1.64	0.0908 (ppm)	1119.9256
3/15/2018 14:41:16	R1801692-021 100X	Ti (336.122 nm)	0.0024 (ppm)	3.32	0.0024 (ppm)	-232.6657
3/15/2018 14:41:16	R1801692-021 100X	Tl (351.923 nm)	0.0019 (ppm)	71.01	0.0019 (ppm)	12.4267
3/15/2018 14:41:16	R1801692-021 100X	V (292.401 nm)	-0.0001 u (ppm)	77.81	-0.0001 (ppm)	128.5700
3/15/2018 14:41:16	R1801692-021 100X	Y (360.074 nm)	1.07 (Ratio)	1.57	1.07 (Ratio)	756205.50
3/15/2018 14:41:16	R1801692-021 100X	Y_R (360.074 nm)	1.08 (Ratio)	1.57	1.08 (Ratio)	756078.03
3/15/2018 14:41:16	R1801692-021 100X	Zn (213.857 nm)	0.0061 (ppm)	0.81	0.0061 (ppm)	151.3952
3/15/2018 14:46:20	PBW-309977	Ag (328.068 nm)	-0.0004 u (ppm)	14.51	-0.0004 (ppm)	-118.3813
3/15/2018 14:46:20	PBW-309977	Al (394.401 nm)	-0.0015 u (ppm)	45.23	-0.0015 (ppm)	133.6408
3/15/2018 14:46:20	PBW-309977	As (188.980 nm)	0.0034 u (ppm)	> 100.00	0.0034 (ppm)	-1.8754
3/15/2018 14:46:20	PBW-309977	B (249.772 nm)	-0.0026 u (ppm)	9.55	-0.0026 (ppm)	64.8706
3/15/2018 14:46:20	PBW-309977	Ba (230.424 nm)	-0.0003 u (ppm)	17.04	-0.0003 (ppm)	-1.2587
3/15/2018 14:46:20	PBW-309977	Be (313.107 nm)	0.0000 (ppm)	89.42	0.0000 (ppm)	-561.3061
3/15/2018 14:46:20	PBW-309977	Ca (227.547 nm)	-0.0406 u (ppm)	98.36	-0.0406 (ppm)	2.7104
3/15/2018 14:46:20	PBW-309977	Cd (214.439 nm)	-0.0003 u (ppm)	17.30	-0.0003 (ppm)	9.5205
3/15/2018 14:46:20	PBW-309977	Co (230.786 nm)	0.0003 (ppm)	32.15	0.0003 (ppm)	-2.8897
3/15/2018 14:46:20	PBW-309977	Cr (267.716 nm)	-0.0002 u (ppm)	19.54	-0.0002 (ppm)	-8.2560
3/15/2018 14:46:20	PBW-309977	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.7578
3/15/2018 14:46:20	PBW-309977	Fe (234.350 nm)	-0.0011 u (ppm)	22.80	-0.0011 (ppm)	6.9006
3/15/2018 14:46:20	PBW-309977	K (766.491 nm)	0.0122 (ppm)	47.07	0.0122 (ppm)	16.2635
3/15/2018 14:46:20	PBW-309977	Mg (279.078 nm)	-0.0016 u (ppm)	94.16	-0.0016 (ppm)	-9.0665
3/15/2018 14:46:20	PBW-309977	Mn (257.610 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.8711
3/15/2018 14:46:20	PBW-309977	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.3222
3/15/2018 14:46:20	PBW-309977	Na (588.995 nm)	0.0517 (ppm)	3.22	0.0517 (ppm)	-7346.0958
3/15/2018 14:46:20	PBW-309977	Ni (230.299 nm)	0.0008 u (ppm)	94.94	0.0008 (ppm)	-13.6618
3/15/2018 14:46:20	PBW-309977	Pb (220.353 nm)	-0.0019 u (ppm)	68.98	-0.0019 (ppm)	1.9700
3/15/2018 14:46:20	PBW-309977	Sb (217.582 nm)	-0.0012 u (ppm)	69.99	-0.0012 (ppm)	1.0213
3/15/2018 14:46:20	PBW-309977	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-1.3862
3/15/2018 14:46:20	PBW-309977	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.1176
3/15/2018 14:46:20	PBW-309977	Sr (216.596 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-5.0895
3/15/2018 14:46:20	PBW-309977	Ti (336.122 nm)	0.0019 (ppm)	2.63	0.0019 (ppm)	-312.0857
3/15/2018 14:46:20	PBW-309977	Tl (351.923 nm)	-0.0030 u (ppm)	55.92	-0.0030 (ppm)	1.9532
3/15/2018 14:46:20	PBW-309977	V (292.401 nm)	-0.0002 u (ppm)	80.06	-0.0002 (ppm)	125.4369
3/15/2018 14:46:20	PBW-309977	Y (360.074 nm)	1.08 (Ratio)	1.44	1.08 (Ratio)	763741.04
3/15/2018 14:46:20	PBW-309977	Y_R (360.074 nm)	1.09 (Ratio)	1.44	1.09 (Ratio)	763525.62
3/15/2018 14:46:20	PBW-309977	Zn (213.857 nm)	0.0007 (ppm)	13.56	0.0007 (ppm)	4.2681
3/15/2018 14:49:38	LCSW-309977	Ag (328.068 nm)	0.0503 (ppm)	1.65	0.0503 (ppm)	2826.5445
3/15/2018 14:49:38	LCSW-309977	Al (394.401 nm)	1.8991 (ppm)	1.63	1.8991 (ppm)	18981.3112
3/15/2018 14:49:38	LCSW-309977	As (188.980 nm)	0.0420 (ppm)	5.44	0.0420 (ppm)	30.2404
3/15/2018 14:49:38	LCSW-309977	B (249.772 nm)	1.0040 (ppm)	1.73	1.0040 (ppm)	25215.2139
3/15/2018 14:49:38	LCSW-309977	Ba (230.424 nm)	2.0631 (ppm)	1.97	2.0631 (ppm)	57772.4402
3/15/2018 14:49:38	LCSW-309977	Be (313.107 nm)	0.0503 (ppm)	1.65	0.0503 (ppm)	61745.9378
3/15/2018 14:49:38	LCSW-309977	Ca (227.547 nm)	1.8254 (ppm)	1.99	1.8254 (ppm)	85.1045
3/15/2018 14:49:38	LCSW-309977	Cd (214.439 nm)	0.0516 (ppm)	0.88	0.0516 (ppm)	1047.0409
3/15/2018 14:49:38	LCSW-309977	Co (230.786 nm)	0.5154 (ppm)	1.52	0.5154 (ppm)	4553.1458
3/15/2018 14:49:38	LCSW-309977	Cr (267.716 nm)	0.2072 (ppm)	1.65	0.2072 (ppm)	8268.7352

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:49:38	LCSW-309977	Cu (327.395 nm)	0.2475 (ppm)	1.69	0.2475 (ppm)	11654.8953
3/15/2018 14:49:38	LCSW-309977	Fe (234.350 nm)	0.9984 (ppm)	1.52	0.9984 (ppm)	9418.1471
3/15/2018 14:49:38	LCSW-309977	K (766.491 nm)	20.2445 (ppm)	1.92	20.2445 (ppm)	44185.8760
3/15/2018 14:49:38	LCSW-309977	Mg (279.078 nm)	1.9742 (ppm)	1.59	1.9742 (ppm)	3486.5105
3/15/2018 14:49:38	LCSW-309977	Mn (257.610 nm)	0.5077 (ppm)	1.62	0.5077 (ppm)	132465.1602
3/15/2018 14:49:38	LCSW-309977	Mo (202.032 nm)	0.4913 (ppm)	1.42	0.4913 (ppm)	4150.4422
3/15/2018 14:49:38	LCSW-309977	Na (588.995 nm)	20.6090 (ppm)	1.85	20.6090 (ppm)	632452.9068
3/15/2018 14:49:38	LCSW-309977	Ni (230.299 nm)	0.5055 (ppm)	1.38	0.5055 (ppm)	3049.6025
3/15/2018 14:49:38	LCSW-309977	Pb (220.353 nm)	0.5134 (ppm)	1.68	0.5134 (ppm)	1004.8471
3/15/2018 14:49:38	LCSW-309977	Sb (217.582 nm)	0.4857 (ppm)	2.34	0.4857 (ppm)	592.3791
3/15/2018 14:49:38	LCSW-309977	Se (196.026 nm)	1.2403 (ppm)	1.89	1.2403 (ppm)	1032.0805
3/15/2018 14:49:38	LCSW-309977	Sn (189.925 nm)	4.9011 (ppm)	1.71	4.9011 (ppm)	5412.8583
3/15/2018 14:49:38	LCSW-309977	Sr (216.596 nm)	0.0004 (ppm)	48.95	0.0004 (ppm)	2.7664
3/15/2018 14:49:38	LCSW-309977	Ti (336.122 nm)	0.4942 (ppm)	1.66	0.4942 (ppm)	79632.7712
3/15/2018 14:49:38	LCSW-309977	Tl (351.923 nm)	1.9487 (ppm)	1.72	1.9487 (ppm)	4202.2848
3/15/2018 14:49:38	LCSW-309977	V (292.401 nm)	0.4931 (ppm)	1.57	0.4931 (ppm)	14478.1883
3/15/2018 14:49:38	LCSW-309977	Y (360.074 nm)	1.06 (Ratio)	1.93	1.06 (Ratio)	748886.77
3/15/2018 14:49:38	LCSW-309977	Y_R (360.074 nm)	1.07 (Ratio)	1.93	1.07 (Ratio)	748739.01
3/15/2018 14:49:38	LCSW-309977	Zn (213.857 nm)	0.5040 (ppm)	1.60	0.5040 (ppm)	13664.0299
3/15/2018 14:52:57	R1802053-001	Ag (328.068 nm)	-0.0002 u (ppm)	19.62	-0.0002 (ppm)	-108.2810
3/15/2018 14:52:57	R1802053-001	Al (394.401 nm)	0.0857 (ppm)	4.08	0.0857 (ppm)	998.2434
3/15/2018 14:52:57	R1802053-001	As (188.980 nm)	0.0050 (ppm)	25.38	0.0050 (ppm)	-0.4931
3/15/2018 14:52:57	R1802053-001	B (249.772 nm)	0.0540 (ppm)	2.43	0.0540 (ppm)	1478.3763
3/15/2018 14:52:57	R1802053-001	Ba (230.424 nm)	0.0490 (ppm)	4.02	0.0490 (ppm)	1378.8916
3/15/2018 14:52:57	R1802053-001	Be (313.107 nm)	0.0000 (ppm)	27.36	0.0000 (ppm)	-542.2221
3/15/2018 14:52:57	R1802053-001	Ca (227.547 nm)	107.0133 o (ppm)	2.42	107.0133 (ppm)	4729.8584
3/15/2018 14:52:57	R1802053-001	Cd (214.439 nm)	-0.0004 u (ppm)	45.66	-0.0004 (ppm)	6.7526
3/15/2018 14:52:57	R1802053-001	Co (230.786 nm)	0.0006 (ppm)	61.55	0.0006 (ppm)	-0.0167
3/15/2018 14:52:57	R1802053-001	Cr (267.716 nm)	-0.0002 u (ppm)	70.60	-0.0002 (ppm)	-6.3822
3/15/2018 14:52:57	R1802053-001	Cu (327.395 nm)	0.0032 (ppm)	2.60	0.0032 (ppm)	166.2838
3/15/2018 14:52:57	R1802053-001	Fe (234.350 nm)	0.0713 (ppm)	3.17	0.0713 (ppm)	688.4853
3/15/2018 14:52:57	R1802053-001	K (766.491 nm)	5.0551 (ppm)	2.33	5.0551 (ppm)	11025.5776
3/15/2018 14:52:57	R1802053-001	Mg (279.078 nm)	26.7656 (ppm)	2.33	26.7656 (ppm)	47347.9673
3/15/2018 14:52:57	R1802053-001	Mn (257.610 nm)	0.0264 (ppm)	2.69	0.0264 (ppm)	6906.1870
3/15/2018 14:52:57	R1802053-001	Mo (202.032 nm)	0.0164 (ppm)	1.72	0.0164 (ppm)	144.2570
3/15/2018 14:52:57	R1802053-001	Na (588.995 nm)	54.1292 o (ppm)	2.34	54.1292 (ppm)	1675699.6343
3/15/2018 14:52:57	R1802053-001	Ni (230.299 nm)	0.0054 (ppm)	7.63	0.0054 (ppm)	14.3856
3/15/2018 14:52:57	R1802053-001	Pb (220.353 nm)	-0.0012 u (ppm)	66.11	-0.0012 (ppm)	3.2119
3/15/2018 14:52:57	R1802053-001	Sb (217.582 nm)	0.0017 (ppm)	37.55	0.0017 (ppm)	4.5235
3/15/2018 14:52:57	R1802053-001	Se (196.026 nm)	0.0033 (ppm)	55.00	0.0033 (ppm)	0.6609
3/15/2018 14:52:57	R1802053-001	Sn (189.925 nm)	0.0152 (ppm)	9.18	0.0152 (ppm)	14.8974
3/15/2018 14:52:57	R1802053-001	Sr (216.596 nm)	0.8871 (ppm)	3.32	0.8871 (ppm)	10969.2935
3/15/2018 14:52:57	R1802053-001	Ti (336.122 nm)	0.0050 (ppm)	5.66	0.0050 (ppm)	192.2535
3/15/2018 14:52:57	R1802053-001	Tl (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	12.0631
3/15/2018 14:52:57	R1802053-001	V (292.401 nm)	0.0005 (ppm)	40.07	0.0005 (ppm)	146.3657
3/15/2018 14:52:57	R1802053-001	Y (360.074 nm)	1.03 (Ratio)	1.98	1.03 (Ratio)	728869.82
3/15/2018 14:52:57	R1802053-001	Y_R (360.074 nm)	1.04 (Ratio)	1.98	1.04 (Ratio)	728921.66
3/15/2018 14:52:57	R1802053-001	Zn (213.857 nm)	0.0027 (ppm)	0.75	0.0027 (ppm)	59.4030
3/15/2018 14:56:15	R1802053-001S	Ag (328.068 nm)	0.0512 (ppm)	1.90	0.0512 (ppm)	2878.8269
3/15/2018 14:56:15	R1802053-001S	Al (394.401 nm)	2.1507 (ppm)	2.11	2.1507 (ppm)	21476.4222
3/15/2018 14:56:15	R1802053-001S	As (188.980 nm)	0.0429 (ppm)	7.87	0.0429 (ppm)	31.0557

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:56:15	R1802053-001S	B (249.772 nm)	1.0932 (ppm)	2.07	1.0932 (ppm)	27443.2285
3/15/2018 14:56:15	R1802053-001S	Ba (230.424 nm)	2.0761 (ppm)	2.07	2.0761 (ppm)	58136.1018
3/15/2018 14:56:15	R1802053-001S	Be (313.107 nm)	0.0501 (ppm)	2.12	0.0501 (ppm)	61528.3930
3/15/2018 14:56:15	R1802053-001S	Ca (227.547 nm)	108.4432 (ppm)	2.20	108.4432 (ppm)	4792.9961
3/15/2018 14:56:15	R1802053-001S	Cd (214.439 nm)	0.0492 (ppm)	2.43	0.0492 (ppm)	998.3888
3/15/2018 14:56:15	R1802053-001S	Co (230.786 nm)	0.5071 (ppm)	2.19	0.5071 (ppm)	4480.0914
3/15/2018 14:56:15	R1802053-001S	Cr (267.716 nm)	0.2050 (ppm)	2.04	0.2050 (ppm)	8181.4754
3/15/2018 14:56:15	R1802053-001S	Cu (327.395 nm)	0.2561 (ppm)	2.09	0.2561 (ppm)	12057.0585
3/15/2018 14:56:15	R1802053-001S	Fe (234.350 nm)	1.0738 (ppm)	2.19	1.0738 (ppm)	10127.8008
3/15/2018 14:56:15	R1802053-001S	K (766.491 nm)	26.3165 (ppm)	2.30	26.3165 (ppm)	5744.18827
3/15/2018 14:56:15	R1802053-001S	Mg (279.078 nm)	28.5210 (ppm)	2.15	28.5210 (ppm)	50453.7296
3/15/2018 14:56:15	R1802053-001S	Mn (257.610 nm)	0.5330 (ppm)	2.10	0.5330 (ppm)	139073.3511
3/15/2018 14:56:15	R1802053-001S	Mo (202.032 nm)	0.5095 (ppm)	1.95	0.5095 (ppm)	4304.6298
3/15/2018 14:56:15	R1802053-001S	Na (588.995 nm)	73.5897 (ppm)	2.26	73.5897 (ppm)	2281365.3284
3/15/2018 14:56:15	R1802053-001S	Ni (230.299 nm)	0.4982 (ppm)	1.98	0.4982 (ppm)	3005.4664
3/15/2018 14:56:15	R1802053-001S	Pb (220.353 nm)	0.4970 (ppm)	2.13	0.4970 (ppm)	972.8498
3/15/2018 14:56:15	R1802053-001S	Sb (217.582 nm)	0.5032 (ppm)	2.73	0.5032 (ppm)	613.6121
3/15/2018 14:56:15	R1802053-001S	Se (196.026 nm)	1.2692 (ppm)	2.28	1.2692 (ppm)	1056.1652
3/15/2018 14:56:15	R1802053-001S	Sn (189.925 nm)	4.9026 (ppm)	2.12	4.9026 (ppm)	5414.4862
3/15/2018 14:56:15	R1802053-001S	Sr (216.596 nm)	0.8718 (ppm)	2.37	0.8718 (ppm)	10780.0220
3/15/2018 14:56:15	R1802053-001S	Ti (336.122 nm)	0.5005 (ppm)	1.95	0.5005 (ppm)	80667.5939
3/15/2018 14:56:15	R1802053-001S	Tl (351.923 nm)	2.0464 (ppm)	2.11	2.0464 (ppm)	4412.4659
3/15/2018 14:56:15	R1802053-001S	V (292.401 nm)	0.4991 (ppm)	2.10	0.4991 (ppm)	14653.7517
3/15/2018 14:56:15	R1802053-001S	Y (360.074 nm)	1.03 (Ratio)	1.80	1.03 (Ratio)	725603.85
3/15/2018 14:56:15	R1802053-001S	Y_R (360.074 nm)	1.03 (Ratio)	1.80	1.03 (Ratio)	725612.19
3/15/2018 14:56:15	R1802053-001S	Zn (213.857 nm)	0.4957 (ppm)	2.45	0.4957 (ppm)	13438.4402
3/15/2018 14:59:34	R1802053-001SD	Ag (328.068 nm)	0.0509 (ppm)	2.09	0.0509 (ppm)	2865.3757
3/15/2018 14:59:34	R1802053-001SD	Al (394.401 nm)	2.1307 (ppm)	2.20	2.1307 (ppm)	21277.5503
3/15/2018 14:59:34	R1802053-001SD	As (188.980 nm)	0.0425 (ppm)	21.48	0.0425 (ppm)	30.7287
3/15/2018 14:59:34	R1802053-001SD	B (249.772 nm)	1.0879 (ppm)	2.09	1.0879 (ppm)	27310.6111
3/15/2018 14:59:34	R1802053-001SD	Ba (230.424 nm)	2.0675 (ppm)	1.88	2.0675 (ppm)	57895.5221
3/15/2018 14:59:34	R1802053-001SD	Be (313.107 nm)	0.0499 (ppm)	2.09	0.0499 (ppm)	61203.7470
3/15/2018 14:59:34	R1802053-001SD	Ca (227.547 nm)	107.5896 (ppm)	2.16	107.5896 (ppm)	4755.3080
3/15/2018 14:59:34	R1802053-001SD	Cd (214.439 nm)	0.0492 (ppm)	1.80	0.0492 (ppm)	997.4330
3/15/2018 14:59:34	R1802053-001SD	Co (230.786 nm)	0.5038 (ppm)	1.89	0.5038 (ppm)	4451.0829
3/15/2018 14:59:34	R1802053-001SD	Cr (267.716 nm)	0.2039 (ppm)	1.89	0.2039 (ppm)	8136.9030
3/15/2018 14:59:34	R1802053-001SD	Cu (327.395 nm)	0.2554 (ppm)	2.19	0.2554 (ppm)	12023.7506
3/15/2018 14:59:34	R1802053-001SD	Fe (234.350 nm)	1.0583 (ppm)	2.14	1.0583 (ppm)	9982.0871
3/15/2018 14:59:34	R1802053-001SD	K (766.491 nm)	26.2113 (ppm)	2.20	26.2113 (ppm)	57212.2017
3/15/2018 14:59:34	R1802053-001SD	Mg (279.078 nm)	28.2321 (ppm)	2.08	28.2321 (ppm)	49942.6384
3/15/2018 14:59:34	R1802053-001SD	Mn (257.610 nm)	0.5305 (ppm)	2.07	0.5305 (ppm)	138413.2479
3/15/2018 14:59:34	R1802053-001SD	Mo (202.032 nm)	0.5089 (ppm)	2.28	0.5089 (ppm)	4299.5731
3/15/2018 14:59:34	R1802053-001SD	Na (588.995 nm)	72.9139 (ppm)	2.11	72.9139 (ppm)	2260333.5724
3/15/2018 14:59:34	R1802053-001SD	Ni (230.299 nm)	0.4958 (ppm)	2.20	0.4958 (ppm)	2990.6711
3/15/2018 14:59:34	R1802053-001SD	Pb (220.353 nm)	0.4948 (ppm)	1.70	0.4948 (ppm)	968.6607
3/15/2018 14:59:34	R1802053-001SD	Sb (217.582 nm)	0.5003 (ppm)	2.34	0.5003 (ppm)	610.0246
3/15/2018 14:59:34	R1802053-001SD	Se (196.026 nm)	1.2581 (ppm)	1.99	1.2581 (ppm)	1046.9423
3/15/2018 14:59:34	R1802053-001SD	Sn (189.925 nm)	4.9047 (ppm)	2.12	4.9047 (ppm)	5416.8680
3/15/2018 14:59:34	R1802053-001SD	Sr (216.596 nm)	0.8653 (ppm)	2.40	0.8653 (ppm)	10699.4904
3/15/2018 14:59:34	R1802053-001SD	Ti (336.122 nm)	0.4993 (ppm)	2.14	0.4993 (ppm)	80466.0834
3/15/2018 14:59:34	R1802053-001SD	Tl (351.923 nm)	2.0344 (ppm)	1.97	2.0344 (ppm)	4386.8299



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 14:59:34	R1802053-001SD	V (292.401 nm)	0.4968 (ppm)	2.11	0.4968 (ppm)	14585.7488
3/15/2018 14:59:34	R1802053-001SD	Y (360.074 nm)	1.03 (Ratio)	1.75	1.03 (Ratio)	728000.72
3/15/2018 14:59:34	R1802053-001SD	Y_R (360.074 nm)	1.03 (Ratio)	1.74	1.03 (Ratio)	725940.91
3/15/2018 14:59:34	R1802053-001SD	Zn (213.857 nm)	0.4914 (ppm)	2.37	0.4914 (ppm)	13324.1865
3/15/2018 15:02:53	R1802053-001L	Ag (328.068 nm)	-0.0003 u (ppm)	45.59	-0.0003 (ppm)	-110.5763
3/15/2018 15:02:53	R1802053-001L	Al (394.401 nm)	0.0198 (ppm)	5.59	0.0198 (ppm)	344.6482
3/15/2018 15:02:53	R1802053-001L	As (188.980 nm)	0.0028 (ppm)	90.67	0.0028 (ppm)	-2.3511
3/15/2018 15:02:53	R1802053-001L	B (249.772 nm)	0.0089 (ppm)	3.28	0.0089 (ppm)	353.4523
3/15/2018 15:02:53	R1802053-001L	Ba (230.424 nm)	0.0101 (ppm)	3.55	0.0101 (ppm)	288.8693
3/15/2018 15:02:53	R1802053-001L	Be (313.107 nm)	0.0000 (ppm)	55.50	0.0000 (ppm)	-545.6134
3/15/2018 15:02:53	R1802053-001L	Ca (227.547 nm)	19.9188 (ppm)	0.81	19.9188 (ppm)	884.0487
3/15/2018 15:02:53	R1802053-001L	Cd (214.439 nm)	-0.0003 u (ppm)	17.30	-0.0003 (ppm)	8.8566
3/15/2018 15:02:53	R1802053-001L	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-2.7747
3/15/2018 15:02:53	R1802053-001L	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	1.1807
3/15/2018 15:02:53	R1802053-001L	Cu (327.395 nm)	0.0006 (ppm)	17.79	0.0006 (ppm)	42.2688
3/15/2018 15:02:53	R1802053-001L	Fe (234.350 nm)	0.0135 (ppm)	4.13	0.0135 (ppm)	144.2878
3/15/2018 15:02:53	R1802053-001L	K (766.491 nm)	0.9465 (ppm)	1.35	0.9465 (ppm)	2055.9046
3/15/2018 15:02:53	R1802053-001L	Mg (279.078 nm)	5.2103 (ppm)	1.39	5.2103 (ppm)	9211.9593
3/15/2018 15:02:53	R1802053-001L	Mn (257.610 nm)	0.0055 (ppm)	1.29	0.0055 (ppm)	1441.8963
3/15/2018 15:02:53	R1802053-001L	Mo (202.032 nm)	0.0044 (ppm)	2.84	0.0044 (ppm)	42.9249
3/15/2018 15:02:53	R1802053-001L	Na (588.995 nm)	10.6133 (ppm)	1.44	10.6133 (ppm)	321361.1140
3/15/2018 15:02:53	R1802053-001L	Ni (230.299 nm)	0.0025 (ppm)	33.94	0.0025 (ppm)	-3.1689
3/15/2018 15:02:53	R1802053-001L	Pb (220.353 nm)	-0.0015 u (ppm)	66.19	-0.0015 (ppm)	2.7044
3/15/2018 15:02:53	R1802053-001L	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	3.0969
3/15/2018 15:02:53	R1802053-001L	Se (195.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-0.9418
3/15/2018 15:02:53	R1802053-001L	Sn (189.925 nm)	0.0158 (ppm)	8.91	0.0158 (ppm)	15.6374
3/15/2018 15:02:53	R1802053-001L	Sr (216.596 nm)	0.1785 (ppm)	1.77	0.1785 (ppm)	2205.3880
3/15/2018 15:02:53	R1802053-001L	Ti (336.122 nm)	0.0032 (ppm)	4.81	0.0032 (ppm)	-105.8279
3/15/2018 15:02:53	R1802053-001L	Tl (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	11.9172
3/15/2018 15:02:53	R1802053-001L	V (292.401 nm)	0.0004 (ppm)	63.33	0.0004 (ppm)	143.2076
3/15/2018 15:02:53	R1802053-001L	Y (360.074 nm)	1.07 (Ratio)	1.68	1.07 (Ratio)	753136.04
3/15/2018 15:02:53	R1802053-001L	Y_R (360.074 nm)	1.07 (Ratio)	1.69	1.07 (Ratio)	752885.86
3/15/2018 15:02:53	R1802053-001L	Zn (213.857 nm)	0.0068 (ppm)	4.87	0.0068 (ppm)	169.6367
3/15/2018 15:06:12	Continuing Calibration Verification	Ag (328.068 nm)	0.4885 (ppm)	0.45	0.4885 (ppm)	28302.7963
3/15/2018 15:06:12	Continuing Calibration Verification	Al (394.401 nm)	9.8054 (ppm)	0.26	9.8054 (ppm)	97386.2927
3/15/2018 15:06:12	Continuing Calibration Verification	As (188.980 nm)	0.9797 (ppm)	0.80	0.9797 (ppm)	810.5063
3/15/2018 15:06:12	Continuing Calibration Verification	B (249.772 nm)	2.4731 (ppm)	0.14	2.4731 (ppm)	61921.8908
3/15/2018 15:06:12	Continuing Calibration Verification	Ba (230.424 nm)	10.1854 (ppm)	0.48	10.1854 (ppm)	285192.7698
3/15/2018 15:06:12	Continuing Calibration Verification	Be (313.107 nm)	0.2564 (ppm)	0.17	0.2564 (ppm)	317110.2108
3/15/2018 15:06:12	Continuing Calibration Verification	Ca (227.547 nm)	24.7159 (ppm)	0.73	24.7159 (ppm)	1095.8763
3/15/2018 15:06:12	Continuing Calibration Verification	Cd (214.439 nm)	0.4980 (ppm)	0.16	0.4980 (ppm)	9971.0658
3/15/2018 15:06:12	Continuing Calibration Verification	Co (230.786 nm)	2.5607 (ppm)	0.11	2.5607 (ppm)	22644.4661
3/15/2018 15:06:12	Continuing Calibration Verification	Cr (267.716 nm)	0.5290 (ppm)	0.09	0.5290 (ppm)	21114.6484
3/15/2018 15:06:12	Continuing Calibration Verification	Cu (327.395 nm)	1.2527 (ppm)	0.26	1.2527 (ppm)	58919.7629
3/15/2018 15:06:12	Continuing Calibration Verification	Fe (234.350 nm)	4.9932 (ppm)	0.13	4.9932 (ppm)	47032.5126
3/15/2018 15:06:12	Continuing Calibration Verification	K (766.491 nm)	25.8606 (ppm)	0.50	25.8606 (ppm)	56446.6043
3/15/2018 15:06:12	Continuing Calibration Verification	Mg (279.078 nm)	24.7954 (ppm)	0.15	24.7954 (ppm)	43862.2967
3/15/2018 15:06:12	Continuing Calibration Verification	Mn (257.610 nm)	0.7732 (ppm)	0.09	0.7732 (ppm)	201729.3916
3/15/2018 15:06:12	Continuing Calibration Verification	Mo (202.032 nm)	2.5093 (ppm)	0.03	2.5093 (ppm)	21174.9998
3/15/2018 15:06:12	Continuing Calibration Verification	Na (588.995 nm)	26.4414 (ppm)	0.57	26.4414 (ppm)	813976.4624
3/15/2018 15:06:12	Continuing Calibration Verification	Ni (230.299 nm)	2.0457 (ppm)	0.05	2.0457 (ppm)	12397.5179

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:06:12	Continuing Calibration Verification	Pb (220.353 nm)	0.5001 (ppm)	0.21	0.5001 (ppm)	978.9475
3/15/2018 15:06:12	Continuing Calibration Verification	Sb (217.582 nm)	5.0623 (ppm)	0.23	5.0623 (ppm)	6150.3755
3/15/2018 15:06:12	Continuing Calibration Verification	Se (196.026 nm)	0.5058 (ppm)	0.64	0.5058 (ppm)	419.6475
3/15/2018 15:06:12	Continuing Calibration Verification	Sn (189.925 nm)	4.9842 (ppm)	0.08	4.9842 (ppm)	5504.6603
3/15/2018 15:06:12	Continuing Calibration Verification	Sr (216.596 nm)	2.5168 (ppm)	0.10	2.5168 (ppm)	31124.4362
3/15/2018 15:06:12	Continuing Calibration Verification	Ti (336.122 nm)	2.5198 (ppm)	0.11	2.5198 (ppm)	408636.0977
3/15/2018 15:06:12	Continuing Calibration Verification	Tl (351.923 nm)	1.0240 (ppm)	0.36	1.0240 (ppm)	2212.2722
3/15/2018 15:06:12	Continuing Calibration Verification	V (292.401 nm)	2.5368 (ppm)	0.09	2.5368 (ppm)	73942.6099
3/15/2018 15:06:12	Continuing Calibration Verification	Y (360.074 nm)	1.03 (Ratio)	0.76	1.03 (Ratio)	723070.48
3/15/2018 15:06:12	Continuing Calibration Verification	Y_R (360.074 nm)	1.03 (Ratio)	0.76	1.03 (Ratio)	722871.59
3/15/2018 15:06:12	Continuing Calibration Verification	Zn (213.857 nm)	0.9594 (ppm)	0.19	0.9594 (ppm)	26024.1051
3/15/2018 15:09:32	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	67.77	-0.0002 (ppm)	-104.5805
3/15/2018 15:09:32	Continuing Calibration Blank	Al (394.401 nm)	0.0006 (ppm)	72.98	0.0006 (ppm)	154.0273
3/15/2018 15:09:32	Continuing Calibration Blank	As (188.980 nm)	0.0025 (ppm)	17.08	0.0025 (ppm)	-2.5852
3/15/2018 15:09:32	Continuing Calibration Blank	B (249.772 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	129.4711
3/15/2018 15:09:32	Continuing Calibration Blank	Ba (230.424 nm)	0.0032 (ppm)	2.03	0.0032 (ppm)	97.1424
3/15/2018 15:09:32	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	3.83	0.0001 (ppm)	-460.5445
3/15/2018 15:09:32	Continuing Calibration Blank	Ca (227.547 nm)	0.0300 (ppm)	70.76	0.0300 (ppm)	5.8264
3/15/2018 15:09:32	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	90.86	0.0002 (ppm)	18.6367
3/15/2018 15:09:32	Continuing Calibration Blank	Co (230.786 nm)	0.0010 (ppm)	12.43	0.0010 (ppm)	3.5120
3/15/2018 15:09:32	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	3.1580
3/15/2018 15:09:32	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	54.18	0.0003 (ppm)	28.2528
3/15/2018 15:09:32	Continuing Calibration Blank	Fe (234.350 nm)	0.0020 (ppm)	6.58	0.0020 (ppm)	36.6577
3/15/2018 15:09:32	Continuing Calibration Blank	K (766.491 nm)	0.0182 (ppm)	30.02	0.0182 (ppm)	29.3989
3/15/2018 15:09:32	Continuing Calibration Blank	Mg (279.078 nm)	0.0074 (ppm)	24.35	0.0074 (ppm)	6.8612
3/15/2018 15:09:32	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	4.25	0.0002 (ppm)	77.5287
3/15/2018 15:09:32	Continuing Calibration Blank	Mo (202.032 nm)	0.0026 (ppm)	16.93	0.0026 (ppm)	27.4804
3/15/2018 15:09:32	Continuing Calibration Blank	Na (588.995 nm)	0.0508 (ppm)	2.50	0.0508 (ppm)	-7374.2404
3/15/2018 15:09:32	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-18.8077
3/15/2018 15:09:32	Continuing Calibration Blank	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.2196
3/15/2018 15:09:32	Continuing Calibration Blank	Sb (217.582 nm)	0.0031 (ppm)	24.92	0.0031 (ppm)	6.2402
3/15/2018 15:09:32	Continuing Calibration Blank	Se (196.026 nm)	0.0016 (ppm)	50.92	0.0016 (ppm)	-0.7366
3/15/2018 15:09:32	Continuing Calibration Blank	Sn (189.925 nm)	0.0074 (ppm)	22.10	0.0074 (ppm)	6.2906
3/15/2018 15:09:32	Continuing Calibration Blank	Sr (216.596 nm)	0.0008 (ppm)	28.47	0.0008 (ppm)	7.4083
3/15/2018 15:09:32	Continuing Calibration Blank	Ti (336.122 nm)	0.0014 (ppm)	9.04	0.0014 (ppm)	-397.8058
3/15/2018 15:09:32	Continuing Calibration Blank	Tl (351.923 nm)	0.0027 (ppm)	> 100.00	0.0027 (ppm)	14.1582
3/15/2018 15:09:32	Continuing Calibration Blank	V (292.401 nm)	0.0008 (ppm)	3.06	0.0008 (ppm)	155.3493
3/15/2018 15:09:32	Continuing Calibration Blank	Y (360.074 nm)	1.05 (Ratio)	1.68	1.05 (Ratio)	742711.64
3/15/2018 15:09:32	Continuing Calibration Blank	Y_R (360.074 nm)	1.06 (Ratio)	1.68	1.06 (Ratio)	742284.25
3/15/2018 15:09:32	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	37.44	-0.0001 (ppm)	-18.0007
3/15/2018 15:12:51	Contract Required Detection Limit	Ag (328.068 nm)	0.0095 (ppm)	0.68	0.0095 (ppm)	456.2825
3/15/2018 15:12:51	Contract Required Detection Limit	Al (394.401 nm)	0.1747 (ppm)	0.86	0.1747 (ppm)	1880.9169
3/15/2018 15:12:51	Contract Required Detection Limit	As (188.980 nm)	0.0221 (ppm)	18.11	0.0221 (ppm)	13.7137
3/15/2018 15:12:51	Contract Required Detection Limit	B (249.772 nm)	0.1959 (ppm)	0.70	0.1959 (ppm)	5024.3362
3/15/2018 15:12:51	Contract Required Detection Limit	Ba (230.424 nm)	0.2059 (ppm)	0.61	0.2059 (ppm)	5770.4356
3/15/2018 15:12:51	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.52	0.0050 (ppm)	5619.1652
3/15/2018 15:12:51	Contract Required Detection Limit	Ca (227.547 nm)	0.9402 (ppm)	1.62	0.9402 (ppm)	46.0196
3/15/2018 15:12:51	Contract Required Detection Limit	Cd (214.439 nm)	0.0097 (ppm)	1.10	0.0097 (ppm)	209.6643
3/15/2018 15:12:51	Contract Required Detection Limit	Co (230.786 nm)	0.0502 (ppm)	0.67	0.0502 (ppm)	438.4325
3/15/2018 15:12:51	Contract Required Detection Limit	Cr (267.716 nm)	0.0103 (ppm)	1.21	0.0103 (ppm)	411.4952
3/15/2018 15:12:51	Contract Required Detection Limit	Cu (327.395 nm)	0.0245 (ppm)	0.51	0.0245 (ppm)	1168.3088

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:12:51	Contract Required Detection Limit	Fe (234.350 nm)	0.1032 (ppm)	1.06	0.1032 (ppm)	989.1457
3/15/2018 15:12:51	Contract Required Detection Limit	K (766.491 nm)	0.9894 (ppm)	0.14	0.9894 (ppm)	2149.7387
3/15/2018 15:12:51	Contract Required Detection Limit	Mg (279.078 nm)	0.9875 (ppm)	0.40	0.9875 (ppm)	1740.9739
3/15/2018 15:12:51	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.34	0.0154 (ppm)	4032.7808
3/15/2018 15:12:51	Contract Required Detection Limit	Mo (202.032 nm)	0.0249 (ppm)	1.93	0.0249 (ppm)	216.2830
3/15/2018 15:12:51	Contract Required Detection Limit	Na (588.995 nm)	1.1116 (ppm)	0.06	1.1116 (ppm)	25640.6808
3/15/2018 15:12:51	Contract Required Detection Limit	Ni (230.299 nm)	0.0407 (ppm)	4.60	0.0407 (ppm)	228.2101
3/15/2018 15:12:51	Contract Required Detection Limit	Pb (220.353 nm)	0.0094 (ppm)	21.64	0.0094 (ppm)	23.9960
3/15/2018 15:12:51	Contract Required Detection Limit	Sb (217.582 nm)	0.0605 (ppm)	4.22	0.0605 (ppm)	76.0058
3/15/2018 15:12:51	Contract Required Detection Limit	Se (196.026 nm)	0.0108 (ppm)	26.68	0.0108 (ppm)	6.9359
3/15/2018 15:12:51	Contract Required Detection Limit	Sn (189.925 nm)	0.4917 (ppm)	0.47	0.4917 (ppm)	541.4278
3/15/2018 15:12:51	Contract Required Detection Limit	Sr (216.596 nm)	0.0994 (ppm)	1.15	0.0994 (ppm)	1227.2405
3/15/2018 15:12:51	Contract Required Detection Limit	Ti (336.122 nm)	0.0508 (ppm)	0.43	0.0508 (ppm)	7630.5679
3/15/2018 15:12:51	Contract Required Detection Limit	Tl (351.923 nm)	0.0178 (ppm)	16.37	0.0178 (ppm)	46.6235
3/15/2018 15:12:51	Contract Required Detection Limit	V (292.401 nm)	0.0486 (ppm)	0.49	0.0486 (ppm)	1545.2099
3/15/2018 15:12:51	Contract Required Detection Limit	Y (360.074 nm)	1.07 (Ratio)	0.07	1.07 (Ratio)	757620.08
3/15/2018 15:12:51	Contract Required Detection Limit	Y_R (360.074 nm)	1.08 (Ratio)	0.06	1.08 (Ratio)	757362.93
3/15/2018 15:12:51	Contract Required Detection Limit	Zn (213.857 nm)	0.0189 (ppm)	0.47	0.0189 (ppm)	499.2700
3/15/2018 15:16:10	Interference Check Solution A	Ag (328.068 nm)	-0.0004 u (ppm)	31.69	-0.0004 (ppm)	-116.3648
3/15/2018 15:16:10	Interference Check Solution A	Al (394.401 nm)	271.2181 o (ppm)	0.23	271.2181 (ppm)	2689766.4183
3/15/2018 15:16:10	Interference Check Solution A	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-5.3285
3/15/2018 15:16:10	Interference Check Solution A	B (249.772 nm)	0.0423 (ppm)	0.60	0.0423 (ppm)	1185.6895
3/15/2018 15:16:10	Interference Check Solution A	Ba (230.424 nm)	0.0003 (ppm)	38.55	0.0003 (ppm)	14.7249
3/15/2018 15:16:10	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	29.81	0.0000 (ppm)	-608.3473
3/15/2018 15:16:10	Interference Check Solution A	Ca (227.547 nm)	272.1281 o (ppm)	0.40	272.1281 (ppm)	12020.7848
3/15/2018 15:16:10	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u (ppm)	12.46	-0.0010 (ppm)	-5.2799
3/15/2018 15:16:10	Interference Check Solution A	Co (230.786 nm)	-0.0021 u (ppm)	34.65	-0.0021 (ppm)	-23.9596
3/15/2018 15:16:10	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	62.88	0.0002 (ppm)	8.6164
3/15/2018 15:16:10	Interference Check Solution A	Cu (327.395 nm)	0.0008 (ppm)	11.51	0.0008 (ppm)	51.6072
3/15/2018 15:16:10	Interference Check Solution A	Fe (234.350 nm)	93.2714 o (ppm)	0.32	93.2714 (ppm)	878246.2166
3/15/2018 15:16:10	Interference Check Solution A	K (766.491 nm)	0.0100 (ppm)	52.78	0.0100 (ppm)	11.5277
3/15/2018 15:16:10	Interference Check Solution A	Mg (279.078 nm)	264.6868 o (ppm)	0.27	264.6868 (ppm)	468282.9363
3/15/2018 15:16:10	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	2.33	0.0016 (ppm)	435.2123
3/15/2018 15:16:10	Interference Check Solution A	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.5995
3/15/2018 15:16:10	Interference Check Solution A	Na (588.995 nm)	0.0170 (ppm)	10.25	0.0170 (ppm)	-8428.1639
3/15/2018 15:16:10	Interference Check Solution A	Ni (230.299 nm)	-0.0027 u (ppm)	24.55	-0.0027 (ppm)	-35.1604
3/15/2018 15:16:10	Interference Check Solution A	Pb (220.353 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	-0.0583
3/15/2018 15:16:10	Interference Check Solution A	Sb (217.582 nm)	-0.0029 u (ppm)	82.46	-0.0029 (ppm)	-1.0554
3/15/2018 15:16:10	Interference Check Solution A	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.7345
3/15/2018 15:16:10	Interference Check Solution A	Sn (189.925 nm)	0.0028 (ppm)	85.44	0.0028 (ppm)	1.2772
3/15/2018 15:16:10	Interference Check Solution A	Sr (216.596 nm)	0.0194 (ppm)	2.42	0.0194 (ppm)	238.0519
3/15/2018 15:16:10	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	0.85	0.0018 (ppm)	-328.6766
3/15/2018 15:16:10	Interference Check Solution A	Tl (351.923 nm)	0.0019 (ppm)	> 100.00	0.0019 (ppm)	12.3756
3/15/2018 15:16:10	Interference Check Solution A	V (292.401 nm)	0.0032 K (ppm)	1.82	0.0032 (ppm)	225.6831 K
3/15/2018 15:16:10	Interference Check Solution A	Y (360.074 nm)	0.96 (Ratio)	0.59	0.96 (Ratio)	676828.82
3/15/2018 15:16:10	Interference Check Solution A	Y_R (360.074 nm)	0.96 (Ratio)	0.59	0.96 (Ratio)	677052.73
3/15/2018 15:16:10	Interference Check Solution A	Zn (213.857 nm)	0.0095 (ppm)	0.88	0.0095 (ppm)	244.8732
3/15/2018 15:19:28	Interference Check Solution AB	Ag (328.068 nm)	0.2169 (ppm)	0.07	0.2169 (ppm)	12516.4628
3/15/2018 15:19:28	Interference Check Solution AB	Al (394.401 nm)	271.1732 o (ppm)	0.12	271.1732 (ppm)	2689321.4091
3/15/2018 15:19:28	Interference Check Solution AB	As (188.980 nm)	0.1009 (ppm)	4.45	0.1009 (ppm)	79.2799
3/15/2018 15:19:28	Interference Check Solution AB	B (249.772 nm)	0.0433 (ppm)	0.86	0.0433 (ppm)	1211.7057

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:19:28	Interference Check Solution AB	Ba (230.424 nm)	0.5228 (ppm)	0.24	0.5228 (ppm)	14645.9555
3/15/2018 15:19:28	Interference Check Solution AB	Be (313.107 nm)	0.5140 (ppm)	0.25	0.5140 (ppm)	636127.3129
3/15/2018 15:19:28	Interference Check Solution AB	Ca (227.547 nm)	272.1206 (ppm)	0.10	272.1206 (ppm)	12020.4563
3/15/2018 15:19:28	Interference Check Solution AB	Cd (214.439 nm)	0.9557 (ppm)	0.12	0.9557 (ppm)	19120.2681
3/15/2018 15:19:28	Interference Check Solution AB	Co (230.786 nm)	0.4941 (ppm)	0.14	0.4941 (ppm)	4365.1865
3/15/2018 15:19:28	Interference Check Solution AB	Cr (267.716 nm)	0.5198 (ppm)	0.04	0.5198 (ppm)	20746.4065
3/15/2018 15:19:28	Interference Check Solution AB	Cu (327.395 nm)	0.5542 (ppm)	0.09	0.5542 (ppm)	26074.5513
3/15/2018 15:19:28	Interference Check Solution AB	Fe (234.350 nm)	93.2327 (ppm)	0.21	93.2327 (ppm)	877881.9232
3/15/2018 15:19:28	Interference Check Solution AB	K (766.491 nm)	0.0030 (ppm)	90.89	0.0030 (ppm)	-3.8468
3/15/2018 15:19:28	Interference Check Solution AB	Mg (279.078 nm)	264.6651 (ppm)	0.07	264.6651 (ppm)	468244.5183
3/15/2018 15:19:28	Interference Check Solution AB	Mn (257.610 nm)	0.5102 (ppm)	0.11	0.5102 (ppm)	133112.3128
3/15/2018 15:19:28	Interference Check Solution AB	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	7.0545
3/15/2018 15:19:28	Interference Check Solution AB	Na (588.995 nm)	0.0247 (ppm)	5.61	0.0247 (ppm)	-8188.9553
3/15/2018 15:19:28	Interference Check Solution AB	Ni (230.299 nm)	0.9674 (ppm)	0.19	0.9674 (ppm)	5853.0676
3/15/2018 15:19:28	Interference Check Solution AB	Pb (220.353 nm)	0.0459 (ppm)	5.61	0.0459 (ppm)	94.9814
3/15/2018 15:19:28	Interference Check Solution AB	Sb (217.582 nm)	0.6140 (ppm)	0.83	0.6140 (ppm)	748.1339
3/15/2018 15:19:28	Interference Check Solution AB	Se (196.026 nm)	0.0498 (ppm)	9.57	0.0498 (ppm)	39.4447
3/15/2018 15:19:28	Interference Check Solution AB	Sn (189.925 nm)	0.0016 (ppm)	48.57	0.0016 (ppm)	-0.1140
3/15/2018 15:19:28	Interference Check Solution AB	Sr (216.596 nm)	0.0198 (ppm)	2.31	0.0198 (ppm)	242.1273
3/15/2018 15:19:28	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	0.47	0.0017 (ppm)	-354.8501
3/15/2018 15:19:28	Interference Check Solution AB	Tl (351.923 nm)	0.1144 (ppm)	1.57	0.1144 (ppm)	254.4443
3/15/2018 15:19:28	Interference Check Solution AB	V (292.401 nm)	0.5132 (ppm)	0.13	0.5132 (ppm)	15063.2018
3/15/2018 15:19:28	Interference Check Solution AB	Y (360.074 nm)	0.96 (Ratio)	0.46	0.96 (Ratio)	679293.19
3/15/2018 15:19:28	Interference Check Solution AB	Y_R (360.074 nm)	0.97 (Ratio)	0.46	0.97 (Ratio)	679491.52
3/15/2018 15:19:28	Interference Check Solution AB	Zn (213.857 nm)	0.9781 (ppm)	0.03	0.9781 (ppm)	26533.3744
3/15/2018 15:22:48	Continuing Calibration Verification	Ag (328.068 nm)	0.4850 (ppm)	0.45	0.4850 (ppm)	28096.3420
3/15/2018 15:22:48	Continuing Calibration Verification	Al (394.401 nm)	9.7593 (ppm)	0.52	9.7593 (ppm)	96929.7630
3/15/2018 15:22:48	Continuing Calibration Verification	As (188.980 nm)	0.9859 (ppm)	0.46	0.9859 (ppm)	815.6526
3/15/2018 15:22:48	Continuing Calibration Verification	B (249.772 nm)	2.4589 (ppm)	0.46	2.4589 (ppm)	61566.0303
3/15/2018 15:22:48	Continuing Calibration Verification	Ba (230.424 nm)	10.2054 (ppm)	0.37	10.2054 (ppm)	285753.1418
3/15/2018 15:22:48	Continuing Calibration Verification	Be (313.107 nm)	0.2552 (ppm)	0.49	0.2552 (ppm)	315560.8241
3/15/2018 15:22:48	Continuing Calibration Verification	Ca (227.547 nm)	24.5535 (ppm)	0.64	24.5535 (ppm)	1088.7019
3/15/2018 15:22:48	Continuing Calibration Verification	Cd (214.439 nm)	0.4972 (ppm)	0.44	0.4972 (ppm)	9953.4391
3/15/2018 15:22:48	Continuing Calibration Verification	Co (230.786 nm)	2.5512 (ppm)	0.47	2.5512 (ppm)	22560.6345
3/15/2018 15:22:48	Continuing Calibration Verification	Cr (267.716 nm)	0.5281 (ppm)	0.54	0.5281 (ppm)	21075.1599
3/15/2018 15:22:48	Continuing Calibration Verification	Cu (327.395 nm)	1.2443 (ppm)	0.37	1.2443 (ppm)	58528.8207
3/15/2018 15:22:48	Continuing Calibration Verification	Fe (234.350 nm)	4.9940 (ppm)	0.38	4.9940 (ppm)	47040.5480
3/15/2018 15:22:48	Continuing Calibration Verification	K (766.491 nm)	25.6627 (ppm)	0.07	25.6627 (ppm)	56014.6041
3/15/2018 15:22:48	Continuing Calibration Verification	Mg (279.078 nm)	24.7453 (ppm)	0.39	24.7453 (ppm)	43773.6647
3/15/2018 15:22:48	Continuing Calibration Verification	Mn (257.610 nm)	0.7713 (ppm)	0.60	0.7713 (ppm)	201237.3787
3/15/2018 15:22:48	Continuing Calibration Verification	Mo (202.032 nm)	2.5053 (ppm)	0.55	2.5053 (ppm)	21141.3814
3/15/2018 15:22:48	Continuing Calibration Verification	Na (588.995 nm)	26.2620 (ppm)	0.34	26.2620 (ppm)	808392.2562
3/15/2018 15:22:48	Continuing Calibration Verification	Ni (230.299 nm)	2.0412 (ppm)	0.58	2.0412 (ppm)	12370.2664
3/15/2018 15:22:48	Continuing Calibration Verification	Pb (220.353 nm)	0.5018 (ppm)	0.28	0.5018 (ppm)	982.3020
3/15/2018 15:22:48	Continuing Calibration Verification	Sb (217.582 nm)	5.0316 (ppm)	0.12	5.0316 (ppm)	6113.1278
3/15/2018 15:22:48	Continuing Calibration Verification	Se (196.026 nm)	0.5061 (ppm)	0.88	0.5061 (ppm)	419.8460
3/15/2018 15:22:48	Continuing Calibration Verification	Sn (189.925 nm)	4.9557 (ppm)	0.52	4.9557 (ppm)	5473.2396
3/15/2018 15:22:48	Continuing Calibration Verification	Sr (216.596 nm)	2.5184 (ppm)	0.22	2.5184 (ppm)	31144.6587
3/15/2018 15:22:48	Continuing Calibration Verification	Ti (336.122 nm)	2.5078 (ppm)	0.40	2.5078 (ppm)	406682.5131
3/15/2018 15:22:48	Continuing Calibration Verification	Tl (351.923 nm)	1.0225 (ppm)	0.67	1.0225 (ppm)	2208.9395
3/15/2018 15:22:48	Continuing Calibration Verification	V (292.401 nm)	2.5310 (ppm)	0.65	2.5310 (ppm)	73771.2891

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:22:48	Continuing Calibration Verification	Y (360.074 nm)	1.04 (Ratio)	0.31	1.04 (Ratio)	730630.82
3/15/2018 15:22:48	Continuing Calibration Verification	Y_R (360.074 nm)	1.04 (Ratio)	0.31	1.04 (Ratio)	730557.89
3/15/2018 15:22:48	Continuing Calibration Verification	Zn (213.857 nm)	0.9563 (ppm)	0.45	0.9563 (ppm)	25941.7884
3/15/2018 15:26:06	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	37.32	-0.0002 (ppm)	-106.3602
3/15/2018 15:26:06	Continuing Calibration Blank	Al (394.401 nm)	0.0020 (ppm)	16.11	0.0020 (ppm)	167.8621
3/15/2018 15:26:06	Continuing Calibration Blank	As (188.980 nm)	0.0029 (ppm)	24.23	0.0029 (ppm)	-2.2264
3/15/2018 15:26:06	Continuing Calibration Blank	B (249.772 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	123.6830
3/15/2018 15:26:06	Continuing Calibration Blank	Ba (230.424 nm)	0.0044 (ppm)	4.28	0.0044 (ppm)	129.4960
3/15/2018 15:26:06	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	5.02	0.0001 (ppm)	-413.9575
3/15/2018 15:26:06	Continuing Calibration Blank	Ca (227.547 nm)	0.0288 u (ppm)	> 100.00	0.0288 (ppm)	5.7752
3/15/2018 15:26:06	Continuing Calibration Blank	Cd (214.439 nm)	0.0003 (ppm)	10.19	0.0003 (ppm)	21.1685
3/15/2018 15:26:06	Continuing Calibration Blank	Co (230.786 nm)	0.0014 (ppm)	8.69	0.0014 (ppm)	6.8002
3/15/2018 15:26:06	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	30.80	0.0002 (ppm)	7.5665
3/15/2018 15:26:06	Continuing Calibration Blank	Cu (327.395 nm)	0.0005 (ppm)	25.33	0.0005 (ppm)	36.3736
3/15/2018 15:26:06	Continuing Calibration Blank	Fe (234.350 nm)	0.0035 (ppm)	7.80	0.0035 (ppm)	50.2915
3/15/2018 15:26:06	Continuing Calibration Blank	K (766.491 nm)	0.0199 (ppm)	53.46	0.0199 (ppm)	33.1447
3/15/2018 15:26:06	Continuing Calibration Blank	Mg (279.078 nm)	0.0099 (ppm)	8.43	0.0099 (ppm)	11.2892
3/15/2018 15:26:06	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	7.91	0.0003 (ppm)	99.7349
3/15/2018 15:26:06	Continuing Calibration Blank	Mo (202.032 nm)	0.0027 (ppm)	3.91	0.0027 (ppm)	28.4741
3/15/2018 15:26:06	Continuing Calibration Blank	Na (588.995 nm)	0.0545 (ppm)	5.05	0.0545 (ppm)	-7261.4861
3/15/2018 15:26:06	Continuing Calibration Blank	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-18.2675
3/15/2018 15:26:06	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.5355
3/15/2018 15:26:06	Continuing Calibration Blank	Sb (217.582 nm)	0.0033 (ppm)	52.99	0.0033 (ppm)	6.4913
3/15/2018 15:26:06	Continuing Calibration Blank	Se (196.026 nm)	0.0023 u (ppm)	99.93	0.0023 (ppm)	-0.1960
3/15/2018 15:26:06	Continuing Calibration Blank	Sn (189.925 nm)	0.0060 (ppm)	29.59	0.0060 (ppm)	4.7920
3/15/2018 15:26:06	Continuing Calibration Blank	Sr (216.596 nm)	0.0011 (ppm)	38.29	0.0011 (ppm)	11.5468
3/15/2018 15:26:06	Continuing Calibration Blank	Ti (336.122 nm)	0.0018 (ppm)	3.25	0.0018 (ppm)	-331.6182
3/15/2018 15:26:06	Continuing Calibration Blank	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	7.6494
3/15/2018 15:26:06	Continuing Calibration Blank	V (292.401 nm)	0.0010 (ppm)	17.39	0.0010 (ppm)	160.9879
3/15/2018 15:26:06	Continuing Calibration Blank	Y (360.074 nm)	1.06 (Ratio)	0.50	1.06 (Ratio)	749053.92
3/15/2018 15:26:06	Continuing Calibration Blank	Y_R (360.074 nm)	1.07 (Ratio)	0.50	1.07 (Ratio)	748820.35
3/15/2018 15:26:06	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	48.70	-0.0001 (ppm)	-16.8914

Ag (328.068 nm)  
Intensity = 58132.9523 \* Concentration - 95.3743  
Correlation coefficient: 0.99999

As (188.980 nm)  
Intensity = 832.0480 \* Concentration - 4.6735  
Correlation coefficient: 1.00000

B (249.772 nm)  
Intensity = 24985.6639 \* Concentration + 129.9291  
Correlation coefficient: 0.99999

Ba (230.424 nm)  
Intensity = 27999.6419 \* Concentration + 6.3558  
Correlation coefficient: 0.99998

Be (313.107 nm)  
Intensity = 1238803.2299 \* Concentration - 579.6465  
Correlation coefficient: 1.00000

Cd (214.439 nm)  
Intensity = 19991.0047 \* Concentration + 14.7712  
Correlation coefficient: 0.99998

Co (230.786 nm)  
Intensity = 8845.0759 \* Concentration - 5.2352  
Correlation coefficient: 0.99999

Cr (267.716 nm)  
Intensity = 39908.8367 \* Concentration + 0.8922  
Correlation coefficient: 1.00000

Cu (327.395 nm)  
Intensity = 47023.4966 \* Concentration + 15.1787  
Correlation coefficient: 0.99998

K (766.491 nm)  
Intensity = 2183.1263 \* Concentration - 10.3182  
Correlation coefficient: 0.99998

Mn (257.610 nm)  
Intensity = 260880.8492 \* Concentration + 16.9407  
Correlation coefficient: 0.99999

Mo (202.032 nm)  
Intensity = 8436.4050 \* Concentration + 5.9483  
Correlation coefficient: 1.00000

Na (588.995 nm)  
Intensity = 31122.8601 \* Concentration - 8956.5670  
Correlation coefficient: 1.00000

Ni (230.299 nm)  
Intensity = 6069.4012 \* Concentration - 18.5261  
Correlation coefficient: 0.99998

Pb (220.353 nm)  
Intensity = 1946.2869 \* Concentration + 5.6261  
Correlation coefficient: 1.00000

Sb (217.582 nm)  
Intensity = 1214.4429 \* Concentration + 2.4761  
Correlation coefficient: 1.00000

Se (196.026 nm)  
Intensity = 833.8098 \* Concentration - 2.1070  
Correlation coefficient: 0.99999

Sn (189.925 nm)  
Intensity = 1104.7951 \* Concentration - 1.8467  
Correlation coefficient: 0.99999

Ti (336.122 nm)  
Intensity = 162416.0366 \* Concentration - 625.3649  
Correlation coefficient: 1.00000

Tl (351.923 nm)  
Intensity = 2152.1875 \* Concentration + 8.3294  
Correlation coefficient: 0.99998

V (292.401 nm)  
Intensity = 29095.4565 \* Concentration + 132.0257  
Correlation coefficient: 1.00000

Zn (213.857 nm)  
Intensity = 27141.0207 \* Concentration - 14.1222  
Correlation coefficient: 1.00000

Al (394.401 nm)  
Intensity = 9916.8102 \* Concentration + 148.2785  
Correlation coefficient: 0.99985

Ca (227.547 nm)  
Intensity = 44.1567 \* Concentration + 4.5017  
Correlation coefficient: 0.99995

Fe (234.350 nm)  
Intensity = 9415.8470 \* Concentration + 17.3615  
Correlation coefficient: 0.99999

Mg (279.078 nm)  
Intensity = 1769.2196 \* Concentration - 6.1958  
Correlation coefficient: 1.00000

Sr (216.596 nm)  
Intensity = 12367.5987 \* Concentration - 2.4969  
Correlation coefficient: 0.99999



# Preparation Information Benchsheet

Prep Run#: 309972  
 Team: Metals/NMANSEN

Prep Workflow: MetDigLP  
 Prep Method: EPA 3005A/3010A

Status: Prepped  
 Prep Date/Time: 3/13/18 11:06 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802316-01	MB	.01	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL			
2	RQ1802339-01	MB		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL			HB: 8 Well: D2 Temperature: 94.0C Correction Factor: -1.0C Corr. Temp: 93.0C
3	RQ1802339-02	LCS		50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL		1.0000 mL/188560	Digest on HB: 19:08 HB Shutoff: 05:08 3/14/18
4	R1801855-001	TP-02 (4.0)	.02	50mL	6010C/Pb TCLP				50.00mL			
5	RQ1802339-03	R1801855-001 MS	.02	50mL	6010C/Pb TCLP				50.00mL		1.0000 mL/188560	
6	RQ1802339-04	R1801855-001 DMS	.02	50mL	6010C/Pb TCLP				50.00mL		1.0000 mL/188560	
7	R1801855-002	TP-13 (1.0-2.0)	.03	50mL	6010C/Ag TCLP, As TCLP, Ba TCLP, Cd TCLP, Cr TCLP, Pb TCLP, Se TCLP				50.00mL			
8	R1801855-003	TP-14 (3.5)	.03	50mL	6010C/Pb TCLP				50.00mL			

### Spiking Solutions

Name: TCLP Spike      Inventory ID 188560      Logbook Ref: M7620131A      Expires On: 04/24/2018

### Preparation Materials

1:1 HCl Metals Grade      M7600004D (187996)      Hot Block Cups      50 mL Lot 1709027 (188497)      Nitric Acid Metals Grade HNO3      M7600004S (188217)  
 Thermometer      377 (182584)

### Preparation Steps

Step: Digestion  
 Started: 3/15/18 11:06  
 Finished: 3/15/18 11:14  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 309972  
Team: Metals/NMANSEN

Prep WorkFlow: MetDigLP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 11:06 AM

## Chain of Custody

Relinquished By: <u>Wesley [Signature]</u>	Date: <u>3/15/18</u>	<u>Extracts Examined</u>	
Received By: <u>RAO</u>	Date: <u>3/15/18</u>	Yes	No

# Preparation Information Benchsheet

Prep Run#: 309931  
 Team: Metals/CWOODS

Prep WorkFlow: TCLP  
 Prep Method: Method

Status: Prepped  
 Prep Date/Time: 3/12/18 04:00 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802316-01	MB		100g	EPA 1311/TCLP				2,000.00mL			
2	R1801855-001	TP-02 (4.0)	.01	100g	EPA 1311/TCLP				2,000.00mL			
3	R1801855-002	TP-13 (1.0-2.0)	.02	100g	EPA 1311/TCLP				2,000.00mL			
4	R1801855-003	TP-14 (3.5)	.02	100g	EPA 1311/TCLP				2,000.00mL			

### Preparation Materials

TCLP Fluid #1 Concentrate 187311 (187311)

### Preparation Steps

Step: Leach  
 Started: 3/12/18 16:00  
 Finished: 3/13/18 10:00  
 By: CWOODS  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes      No

SOP: MET-TCLP

Non-VOA TCLP Extraction - EPA 1311

Analyst: CMW/NS

Rotator ID	5		
Date started	3/12/18		
Time started	1600		
RPM (daily when full)	30		
Within 28-32rpm?	Yes		
Date ended	3/13/18		
Time ended	0910		

Room Temp Therm ID: 418  
 CF °C: 0.0  
 Obs °C    Corr °C  
 Min 21.3    21.3  
 Max 21.5    21.5  
 Within Limits (21-25°C)? yes  
 Comments: \_\_\_\_\_

pH Meter: pHat Albert  
 Balance: R-balance -01    Diluted fluid concentrates prepared Daily  
 HNO3 preservative: 185922  
 Fluid #1 concentrate: 187311    pH 4.93±0.05  
 Fluid #2 concentrate: \_\_\_\_\_    pH 2.88±0.05  
 Filter Lot: 400119-6168  
 Filter Date: 3/13/18

Fluid Determination Hotplate:	
★ Thermometer ID	N/A
Correction Factor °C	N/A
Observed Temp °C	N/A
Corrected Temp °C	N/A

Comments: \_\_\_\_\_

Order #	Extraction Vessel ID	Rotator ID	Tests Needed	Wt yield Liquid under Pressure?	Part size reduced?	Fluid determination**				B.f.pH >5, add 3.5mL 1N HCl 10m@48-52C ★			Sample amt (g)	Fluid # used	Fluid vol Used (ml)	Filtration		If separated		Comments	
						A. 5g+96.5mL DI 5min	g	Start	End	pH	Start	End				pH	Time	pH	Filtrate Compositble?		amount filtrate
MB	Dispo	5	Metals + Hg	-	-	-	-	-	-	-	-	-	1	2000	1300	5.12	N/A	-	-	N/A	
R1801855-001	↓	↓	Pb, Hg	N	N	5.02	1307	1312	8.06				100.0g	1	2000	1303	5.40	N/A	-	-	N/A
R1801855-002	↓	↓	Metals + Hg	N	N	5.08	1307	1312	8.19				100.0g	1	2000	1307	5.13	N/A	-	-	N/A
R1801855-003	↓	↓	Pb, Hg	N	N	5.07	1307	1312	7.93				100.0g	1	2000	1311	5.19	N/A	-	-	N/A

Metals extracts matrix spiked prior to preservation? yes  
 Comments: \_\_\_\_\_

★ See Attached Sheet.

Percent Solids Determination, if needed

Order #			
Wt: Weight of sample			
Wc: Tare Wt of container			
Wcs: Final Wt of container			
%solids = 100 x (Wc - (Wcs - Wc)) / Ws			

\*Reduce until will pass 9.5mm sieve  
 \*\*If pH in A or B is <5.0 use fluid 1, if >5.0 use fluid 2  
 Volume of ext fluid: 20(%sol)(sample wt)/100

3/12/18  
 Analysts: Cwssds / NSmith

TCLP extraction

Sample: R1801855-001  
 → 5.02g + 96.5mL DI ; pH = 8.06  
 Added 3.5mL of 1N HCl (lot 48877) + heated for 10 minutes.  
 Thermometer ID: 36 Corr: -0.8°C Temp<sub>pass</sub> = 51.7°C  
 Start: 1337 End: 1347 Temp<sub>corr</sub> = 50.9°C  
 pH<sub>final</sub> = 4.76 ∴ Use fluid # 1  
 mass = 100.0g  
 pH<sub>fluid #1</sub> = 4.91

Sample: R1801855-002  
 → 5.08g + 96.5mL DI ; pH = 8.19  
 Added 3.5mL of 1N HCl (lot 48877) + heated for 10 minutes.  
 Therm ID: 36 Corr: -0.8°C Temp<sub>pass</sub> = 52.1°C  
 Start: 1401 End: 1411 Temp<sub>corr</sub> = 51.3°C  
 pH<sub>final</sub> = 4.91 ∴ Use fluid # 1  
 mass = 100.0g  
 pH<sub>fluid #1</sub> = 4.91

<sup>Capitol</sup>  
 Sample: ~~R80~~ R1801855-003  
 → 5.07g + 96.5mL DI ; pH = 7.93  
 Added 3.5mL of 1N HCl (lot 48877) + heated for 10 minutes.  
 Therm ID: 36 Corr: -0.8°C Temp<sub>pass</sub> = 50.7°C  
 Start: 1439 End: 1449 Temp<sub>corr</sub> = 49.9°C  
 pH<sub>final</sub> = 4.63 ∴ Use fluid # 1  
 mass = 100.0g  
 pH<sub>fluid #1</sub> = 4.92

SOP: MET-1  
 Analyst:  
 Rotator ID  
 Date started  
 Time started  
 RPM (daily w  
 Within 28:  
 Date ended  
 Time ended  
 Comments  
 Order  
 Metals extr  
 Comments  
 PANTRANETIQ

# Preparation Information Benchsheet

Prep Run#: 309726  
 Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
 Prep Method: EPA 200.2

Status: Prepped  
 Prep Date/Time: 3/12/18 11:28 AM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802165-01	MB		10mL	200.7/Ag T, Al D, Al T, As T, B T, Ba T, Cd T, Co T, Cr T, Cu D, Cu T, Fe T, Mo T, Na T, Ni T, Pb T, Sb T, Sn T, Ti T, Zn D, Zn T	<2			10.00mL	Colorless-Clear		HB: 9 Well: B12 Temperature: 94.1C/91.6C Correction Factor: 0.0C Corr. Temp: 94.1C/91.6C
2	RQ1802165-02	MB		10mL	200.7/Al D, Cu D, Zn D	<2			10.00mL	Colorless-Clear		
3	RQ1802165-03	MB		10mL	200.7/Pd T, W T	<2			10.00mL	Colorless-Clear		
4	RQ1802165-04	LCS		10mL	200.7/Ag T, Al D, Al T, As T, B T, Ba T, Cd T, Co T, Cr T, Cu D, Cu T, Fe T, Mo T, Na T, Ni T, Pb T, Sb T, Sn T, Ti T, Zn D, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185995; 0.1000 mL/185996; 0.0100 mL/180701; 0.0500 mL/185685	pH Started: 13:00 Digest on HB: 14:28 Digest off HB: 16:28
5	RQ1802165-05	LCS		10mL	200.7/Pd T, W T	<2			10.00mL	Colorless-Clear	0.0200 mL/186800; 0.0200 mL/186805	
6	R1801838-001	Plant #1	.01	10mL	200.7/Mo T, Ni T	<2			10.00mL	Colorless-Clear		
7	R1801838-002	Plant #2	.01	10mL	200.7/Mo T	<2			10.00mL	Colorless-Clear		
8	R1801881-001	Monitoring Station Lagoon	.02	10mL	200.7/Al D	<2			10.00mL	Colorless-Clear		
9	R1801891-002	Corr Measures Diss	.01	10mL	200.7/Cu D	<2			10.00mL	Colorless-Clear		
10	R1801901-001	Outfall 003	.01	10mL	200.7/Zn D	<2			10.00mL	Colorless-Clear		
11	R1801911-001	020 Comp	.01	10mL	200.7/Co T, Cr T, Cu T, Fe T, Zn T	<2			10.00mL	Colorless-Clear		
12	R1801911-002	020 Sol Met	.01	10mL	200.7/Cu D	<2			10.00mL	Colorless-Clear		
13	R1801911-003	RIV	.01	10mL	200.7/Zn T	<2			10.00mL	Colorless-Clear		
14	R1801915-001	020 Comp	.06	10mL	200.7/Co T, Cr T, Cu T, Fe T, Zn T	<2			10.00mL	Colorless-Clear		
15	R1801915-002	020 Sol Met	.01	10mL	200.7/Cu D	<2			10.00mL	Colorless-Clear		
16	R1801915-005	RIV	.05	10mL	200.7/Zn T	<2			10.00mL	Colorless-Clear		
17	R1801932-002	2018000559 W01DSAE-24HR-WA-030 518	.03	10mL	200.7/Al T, Zn T	<2			10.00mL	Colorless-Clear		
18	RQ1802165-06	R1801932-002 MS	.03	10mL	200.7/Al T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185996; 0.1000 mL/185995; 0.0500 mL/185685; 0.0100 mL/180701	
19	RQ1802165-07	R1801932-002 DMS	.03	10mL	200.7/Al T, Zn T	<2			10.00mL	Colorless-Clear	0.0100 mL/180701; 0.0500 mL/185685; 0.1000 mL/185996; 0.1000 mL/185995	
20	R1801932-003	2018000560 W01E-24HR-WA-030618	.03	10mL	200.7/Al T, Cr T, Cu T, Ni T, Pb T, Zn T	<2			10.00mL	Colorless-Clear		
21	RQ1802165-08	R1801932-003 MS	.03	10mL	200.7/Al T, Cr T, Cu T, Ni T, Pb T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185996; 0.0100 mL/180701; 0.0500 mL/185685; 0.1000 mL/185995	
22	RQ1802165-09	R1801932-003 DMS	.03	10mL	200.7/Al T, Cr T, Cu T, Ni T, Pb T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185996; 0.0100 mL/180701; 0.0500 mL/185685; 0.1000 mL/185995	

## Preparation Information Benchsheet

Prep Run#: 309726

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 200.2

Prep Date/Time: 3/12/18 11:28 AM

23	R1801932-006	2018000563 W001-4HR-WA-030618	.03	10mL	200.7/Al T, B T, Cd T, Cr T, Cu T, Fe T, Ni T, Pb T, Zn T	<2		10.00mL	Colorless-Clear		
24	RQ1802165-10	R1801932-006 MS	.03	10mL	200.7/Al T, B T, Cd T, Cr T, Cu T, Fe T, Ni T, Pb T, Zn T	<2		10.00mL	Colorless-Clear	0.1000 mL/185996; 0.0500 mL/185685; 0.0100 mL/180701; 0.1000 mL/185995	
25	RQ1802165-11	R1801932-006 DMS	.03	10mL	200.7/Al T, B T, Cd T, Cr T, Cu T, Fe T, Ni T, Pb T, Zn T	<2		10.00mL	Colorless-Clear	0.0500 mL/185685; 0.1000 mL/185995; 0.0100 mL/180701; 0.1000 mL/185996	
26	R1801932-007	2018000564 W003-4HR-WA-030618	.03	10mL	200.7/Al T, Cd T, Cu T, Fe T, Pb T, Zn T	<2		10.00mL	Colorless-Clear		
27	RQ1802165-12	R1801932-007 MS	.03	10mL	200.7/Al T, Cd T, Cu T, Fe T, Pb T, Zn T	<2		10.00mL	Colorless-Clear	0.1000 mL/185996; 0.1000 mL/185995; 0.0100 mL/180701; 0.0500 mL/185685	
28	RQ1802165-13	R1801932-007 DMS	.03	10mL	200.7/Al T, Cd T, Cu T, Fe T, Pb T, Zn T	<2		10.00mL	Colorless-Clear	0.0500 mL/185685; 0.0100 mL/180701; 0.1000 mL/185996; 0.1000 mL/185995	
29	R1801932-008	2018000565 W004SAE-4HR-WA-030618	.03	10mL	200.7/Al T, Cd T, Cu T, Fe T, Pb T, Zn T	<2		10.00mL	Colorless-Clear		
30	RQ1802165-14	R1801932-008 MS	.03	10mL	200.7/Al T, Cd T, Cu T, Fe T, Pb T, Zn T	<2		10.00mL	Colorless-Clear	0.0500 mL/185685; 0.0100 mL/180701; 0.1000 mL/185996; 0.1000 mL/185995	
31	RQ1802165-15	R1801932-008 DMS	.03	10mL	200.7/Al T, Cd T, Cu T, Fe T, Pb T, Zn T	<2		10.00mL	Colorless-Clear	0.1000 mL/185995; 0.1000 mL/185996; 0.0100 mL/180701; 0.0500 mL/185685	
32	R1801939-001	B325 Final Eff 24 Hour Comp	.08	10mL	200.7/Al T, As T, Co T, Cr T, Cu T, Mo T, Na T, Pb T, Pd T, Sn T, Ti T, W T, Zn T	<2		10.00mL	Colorless-Clear		
33	R1802050-002	STE-03072018-24 HR	.10	10mL	200.7/Ag T, Al T, As T, Ba T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Pd T, Sb T, Sn T, Zn T	<2		10.00mL	Colorless-Clear		
34	R1802050-003	TKP-03072018-24 HR	.09	10mL	200.7/Ag T, Al T, Ba T, Cr T, Fe T, Ni T, Zn T	<2		10.00mL	Colorless-Clear		
35	R1802050-004	STE Field Blank	.10	10mL	200.7/Ag T, Al T, As T, Ba T, Co T, Cr T, Cu T, Fe T, Ni T, Pb T, Pd T, Sb T, Sn T, Zn T	<2		10.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	10070256-1
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	10070256-2
Name: Palladium 1000 ug/mL Pd	Inventory ID	186800	Logbook Ref:	M7600004J	Expires On:	06/30/2019	Lot #:	1733335
Name: Tungsten 1000 ug/mL W	Inventory ID	186805	Logbook Ref:	M7600004N	Expires On:	06/30/2019	Lot #:	172821

# Preparation Information Benchsheet

Prep Run#: 309726  
Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP  
Prep Method: EPA 200.2

Status: Prepped  
Prep Date/Time: 3/12/18 11:28 AM

## Preparation Materials

1:1 HCl Metals Grade	M7600004D (187996)	1:1 Nitric Acid Metals Grade	M7600004S (188218)	Hot Block Cups	10 mL Lot P7202846 (188215)
Thermometer	401 (182586)				

## Preparation Steps

Step: Digestion  
Started: 3/12/18 11:28  
Finished: 3/12/18 18:58  
By: NMANSEN  
Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

## Chain of Custody

Relinquished By: <u>Nicol J</u>	Date: <u>3/12/18</u>	<u>Extracts Examined</u> Yes No
Received By: <u>RAOI</u>	Date: <u>3/12/18</u>	



## Preparation Information Benchsheet

Prep Run#: 309546  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/7/18 03:43 PM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802051-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: G3 Temperature: 93.0C Correction Factor: 0.0C Corr. Temp: 93.0C  Plunge Filtered
2	RQ1802051-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.000 mL/180703; mL/185996; L/180701; mL/185995	pH Started: 16:42 Digest on HB: 17:07 HB Shutoff: 3:07 3/8/18  Plunge Filtered
3	R1801821-001	GWSS-5	.06	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R1801822-001	MW-18S	.06	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
5	R1801822-003	MW-17RS	.01	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R1801822-005	MW-30S	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R1801822-007	MW-20S	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1801822-009	MW-20D	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R1801822-011	MW-31S	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

1821 3/15  
 1822 3/15  
 1851 3/16  
 1889 3/16

## Preparation Information Benchsheet

Prep Run#: 309546

Prep WorkFlow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/7/18 03:43 PM

10	R1801822-013	MW-31D	.06	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
11	R1801822-015	MW-21S	.07	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1801822-017	MW-21D	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R1801822-019	MW-32S	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R1801822-021	MW-32D	.06	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R1801822-023	Dupe-Y	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R1801822-025	GWSS-3	.01	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	RQ1802051-03	R1801822-025 MS	.16	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/185996; 0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701	
18	RQ1802051-04	R1801822-025 DMS	.16	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185996; 0.5000 mL/185995; 0.2500 mL/185685; 0.1000 mL/180703	
19	R1801822-026	GWSS-7	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

## Preparation Information Benchsheet

Prep Run#: 309546

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/7/18 03:43 PM

20	R1801822-028	MW-30D	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
21	R1801851-001	SCA-0263-01	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		Fier IV
22	R1801851-002	SCA-0263-02	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
23	R1801889-002	February 2018 Hauler Sludge	.02	50mL	6010C/As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T	<2		50.00mL	Brown-Cloudy/Tan-Cloudy		Plunge Filtered

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256-1
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256-2

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 294 (12954)

### Preparation Steps

Step: Digestion  
 Started: 3/7/18 15:43  
 Finished: 3/8/18 15:31  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 309546  
Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/7/18 03:43 PM

## Chain of Custody

Relinquished By: <u>Nicol A</u>	Date: <u>3/8/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAO</u>	Date: <u>3/8/18</u>	

## Preparation Information Benchsheet

Prep Run#: 309522

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/7/18 12:04 PM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802047-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 7 Well: G3 Temperature: 94.0C Correction Factor: 0.0C Corr. Temp: 94.0C
2	RQ1802047-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996; 0.5000 mL/185995; 0.0500 mL/180701	pH Started: 16:42 Digest on HB: 17:05 HB Shutoff: 03:05 3/8/18
3	R1801692-001	SCA-0260-01	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R1801692-002	SCA-0260-02	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
5	R1801692-003	SCA-0260-03	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R1801692-004	SCA-0260-04	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R1801692-005	SCA-0260-05	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1801692-006	SCA-0260-06	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R1801692-007	SCA-0260-07	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1801692-008	SCA-0260-08	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

## Preparation Information Benchsheet

Prep Run#: 309522

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/7/18 12:04 PM

11	R1801692-010	SCA-0261-01	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
12	R1801692-011	SCA-0261-02,03,04	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
13	RQ1802047-03	R1801692-011 MS	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.5000 mL/185996; 0.5000 mL/185995; 0.0500 mL/180701; 0.1000 mL/180703; 0.2500 mL/185685	
14	RQ1802047-04	R1801692-011 DMS	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.5000 mL/185996; 0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701	
15	R1801692-012	SCA-0261-05	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
16	R1801692-013	SCA-0261-06	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
17	R1801692-014	SCA-0261-07	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
18	R1801692-016	SCA-0262-01	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
19	R1801692-017	SCA-0262-02	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
20	R1801692-018	SCA-0262-03	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		

## Preparation Information Benchsheet

Prep Run#: 309522

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/7/18 12:04 PM

21	R1801692-019	SCA-0262-04	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R1801692-020	SCA-0262-05	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
23	R1801692-021	SCA-0262-06	.03	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
24	R1801789-004	INF-022818	.06	50mL	6010C/Fe T	<2			50.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	10070256-1
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	10070256-2

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1707186 (185261) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 293 (12952)

### Preparation Steps

Step: Digestion  
 Started: 3/7/18 12:04  
 Finished: 3/8/18 15:15  
 By: NMANSEN

Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 309522  
Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/7/18 12:04 PM

1692 3/15  
1789 3/12

## Chain of Custody

Relinquished By: <u>Wood</u>	Date: <u>3/8/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAOI</u>	Date: <u>3/8/18</u>	



# Preparation Information Benchsheet

Prep Run#: 309977  
 Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
 Prep Method: EPA 200.2

Status: Prepped  
 Prep Date/Time: 3/15/18 11:14 AM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802340-01	MB		10mL	200.7/Al T, Ca T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			10.00mL	Colorless-Clear		HB: 9 Well: E3 Temperature: 90.8C/92.6C Correction Factor: 0.0C Corr. Temp: 90.8C/92.6C
2	RQ1802340-02	LCS		10mL	200.7/Al T, Ca T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			10.00mL	Colorless-Clear	0.0100 mL/180701; 0.0500 mL/185685; 0.1000 mL/185995; 0.1000 mL/185996	pH Started: 11:02 Digest on HB: 11:25 Digest off HB: 13:25
3	R1802053-001	S-2	.05	10mL	200.7/Al T, Ca T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			10.00mL	Colorless-Clear		
4	RQ1802340-03	R1802053-001 MS	.05	10mL	200.7/Al T, Ca T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185995; 0.0100 mL/180701; 0.1000 mL/185996; 0.0500 mL/185685	
5	RQ1802340-04	R1802053-001 DMS	.05	10mL	200.7/Al T, Ca T, Cr T, Fe T, K T, Mg T, Mn T, Na T, Pb T, Zn T	<2			10.00mL	Colorless-Clear	0.1000 mL/185996; 0.1000 mL/185995; 0.0100 mL/180701; 0.0500 mL/185685	

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256-1
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256-2

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996)      1:1 Nitric Acid Metals Grade M7600004S (188218)      Hot Block Cups      10 mL Lot P7202846 (188215)  
 Thermometer 401 (182586)

### Preparation Steps

Step: Digestion  
 Started: 3/15/18 11:14  
 Finished: 3/15/18 14:40  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 309977  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 200.2

Status: Prepped  
Prep Date/Time: 3/15/18 11:14 AM

## Chain of Custody

Relinquished By: <u>Nicol J</u>	Date: <u>3/15/18</u>	Extracts Examined Yes      No
Received By: <u>RAOI</u>	Date: <u>3/15/18</u>	

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. 1 Int.	AL	M7620002E	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
	CA	M7080013X	5000	0.100		0.500
Cal Std. 1	K		5000			BELOW
	MG		5000			0.500
	NA		5000			0.500
Single Element	BA	M7080014BB	1000	0.020		0.020
	CU	M7600001A	1000	0.010		0.010
	K	M7080014AA	10000	0.150		2.00
	MN	M7080011R	1000	0.010		0.010
	MO	M7600002V	1000	0.025		0.025
	SB	M7600001G	1000	0.010		0.010
	TL	M7600001N	1000	0.010		0.010
	ZN	M7600003V	1000	0.010		0.010
	P	-	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 3/13/18	A	M7600003T 2%	M7600004D 5%	3/20/18	M25 M35
NM 3/13/18	B	M7600003T 10%	M7600004D 5%	3/20/18	M25 M35
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3,4,5,6 CALIBRATION STANDARD #2**  
 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M7600001J	1000	0.100	1000	0.100
	AS	M7080011X	1000	0.010		0.010
	B	M7080012Z	1000	0.200		0.200
	BE	M7080012V (1/10)	100	0.030		0.003
	CA	M7080014Y	10000	0.100		1.00
	CD	M7080010N (1/10)	100	0.050		0.005
	CU	M7600001A	1000	0.020		0.020
	K	M7080014AA	10000	0.200		2.00
	MG	M7600002H	10000	0.100		1.00
	NA	M7080014Z	10000	0.100		1.00
	PB	M7080011S	1000	0.050		0.050
	SB	M7600001G	1000	0.060		0.060
	SE	M7080014F	1000	0.010		0.010
	SN	M7600003U	1000	0.500		0.500

Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 1/12/18	A	M7600003T 2%	M7600003D 5%	1/19/18	M34 M25
NM 1/12/18	B	M7600003T 10%	M7600003D 5%	1/19/18	M34 M25
NM 1/23/18	C	M7600003T 2%	M7600003D 5%	1/30/18	M34 M25
NM 1/23/18	D	M7600003T 10%	M7600003D 5%	1/30/18	M34 M25
NM 1/31/18	E	M7600003T 2%	M7600003D 5%	2/7/18	M34 M25
NM 1/31/18	F	M7600003T 10%	M7600003D 5%	2/7/18	M34 M25
NM 2/8/18	G	M7600003T 2%	M7600004D 5%	2/15/18	M34 M25
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	2/15/18	M34 M25
NM 2/19/18	I	M7600003T 2%	M7600004D 5%	2/26/18	M34 M25
NM 2/19/18	J	M7600003T 10%	M7600004D 5%	2/26/18	M34 M25
NM 2/27/18	K	M7600003T 2%	M7600004D 5%	3/6/18	M34 M25
NM 2/27/18	L	M7600003T 10%	M7600004D 5%	3/6/18	M34 M25
CK 3/8/18	M	M7600003T 2%	M7600004D 5%	3/15/18	M25 M34
CK 3/8/18	N	M7600003T 10%	M7600004D 5%	3/15/18	M25 M34
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1** (Standard is prepared weekly or as necessary)  
 (CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)  
 (CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M7600004B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	M7600003G	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M7080014Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M7080014AA	10000	1.00		50.0
	NA	M7080014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600003U	1000	2.00		10.0
	B	M7080012Z	1000	1.00		5.00
	MO	M7600002V	1000	1.00		5.00
	TI	M7080013R	1000	1.00		5.00
	SR	M7080014G	1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 1/4/18	A	M7600003T 2%	M7600003D 5%	1/11/18	M34
NM 1/4/18	B	M7600003T 10%	M7600003D 5%	1/11/18	M34
NM 1/12/18	C	M7600003T 2%	M7600003D 5%	1/19/18	M34
NM 1/12/18	D	M7600003T 10%	M7600003D 5%	1/19/18	M34
NM 1/23/18	E	M7600003T 2%	M7600003D 5%	1/30/18	M34
NM 1/23/18	F	M7600003T 10%	M7600003D 5%	1/30/18	M34
NM 1/30/18	G	M7600003T 2%	M7600004D 5%	2/6/18	M34
NM 1/30/18	H	M7600003T 10%	M7600004D 5%	2/6/18	M34
NM 2/7/18	I	M7600003T 2%	M7600004D 5%	2/14/18	M34
NM 2/7/18	J	M7600003T 10%	M7600004D 5%	2/14/18	M34
CK 2/15/18	K	M7600003T 2%	M7600004D 5%	2/22/18	M34
CK 2/15/18	L	M7600003T 10%	M7600004D 5%	2/22/18	M34
NM 2/23/18	M	M7600003T 2%	M7600004D 5%	3/2/18	M34
NM 2/23/18	N	M7600003T 10%	M7600004D 5%	3/2/18	M34
CK 3/1/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
CK 3/1/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/8/18	Q	M7600003T 2%	M7600004D 5%	3/15/18	M34
NM 3/14/18	R	M7600003T 10%	M7600004D 5%	3/21/18	M35
NM 3/14/18	S	M7600003T 2%	M7600004D 5%	3/21/18	M35
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	M7600001R	2000	2.00		Below
	BA		2000			40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	M7600003G	100	4.00		4.00
	CD, SE		50			2.00
	PB		50			Below
Single Metals	B	M7080012Z	1000	1.00		10.0
	MO	M7600002V	1000	1.00		10.0
	TI	M7080013R	1000	1.00		10.0
	SR	M7080014G	1000	1.00		10.0
	CA	M70800148Y	10000	2.50		250
	MG	M7600002H	10000	5.00		500
	NA	M7080014Z	10000	1.50		150
	CR	M7080012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M7600002G	10000	4.60		500
	MN	M7080011R	1000	0.700		10.00
	PB	M7080011S	1000	0.800		10.0
	K	M7080014AA	10000	1.50		150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 1/11/18	A	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	B	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/26/18	C	M7600003T 2%	M7600004D 5%	2/9/18	M34
NM 1/26/18	D	M7600003T 10%	M7600004D 5%	2/9/18	M34
NM 2/12/18	E	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	F	M7600003T 10%	M7600004D 5%	2/26/18	M34
NM 2/27/18	G	M7600003T 2%	M7600004D 5%	3/13/18	M34
NM 2/27/18	H	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/14/18	I	M7600003T 2%	M7600004D 5%	3/28/18	M35
NM 3/14/18	J	M7600003T 10%	M7600004D 5%	3/28/18	M35
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

OPTIMA 314/5/6 HLCCV3

(Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M70800014Y	10000	2.00	100	200
	CU	M76000001A	1000	0.40		4.00
	FE	M76000001C	10000	0.40		40.0
	K	M70800014AA	10000	1.00		100
	TL	M76000001N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 11/8/17	A	M76000002W 2%	M76000003D 5%	11/22/17	M35
NM 11/8/17	B	M76000002W 10%	M76000003D 5%	11/22/17	M35
NM 11/22/17	C	M76000002W 2%	M76000003D 5%	12/6/17	M35
NM 11/22/17	D	M76000002W 10%	M76000003D 5%	12/6/17	M35
NM 12/7/17	E	M76000003T 2%	M76000003D 5%	12/21/17	M35
NM 12/7/17	F	M76000003T 10%	M76000003D 5%	12/21/17	M35
NM 12/27/17	G	M76000003T 2%	M76000003D 5%	1/6/18	M35
NM 12/27/17	H	M76000003T 10%	M76000003D 5%	1/6/18	M35
NM 1/11/18	I	M76000003T 2%	M76000003D 5%	1/25/18	M34
NM 1/11/18	J	M76000003T 10%	M76000003D 5%	1/25/18	M34
NM 1/25/18	K	M76000003T 2%	M76000004D 5%	2/9/18	M34
NM 1/25/18	L	M76000003T 10%	M76000004D 5%	2/9/18	M34
NM 2/12/18	M	M76000003T 2%	M76000004D 5%	2/26/18	M34
NM 2/12/18	N	M76000003T 10%	M76000004D 5%	2/26/18	M34
NM 2/27/18	O	M76000003T 2%	M76000004D 5%	3/13/18	M34
NM 2/27/18	P	M76000003T 10%	M76000004D 5%	3/13/18	M34
NM 3/14/18	Q	M76000003T 2%	M76000004D 5%	3/28/18	M35
NM 3/14/18	R	M76000003T 10%	M76000004D 5%	3/28/18	M35
	S				

OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)  
 (ICV FOR ILM5.3 IS A 1/2 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600003A	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600003B	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600004Y	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600002K	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600002Q	1000	1.00		5.00
	B	M7600003I	1000	0.500		2.50
	MO	M7600003M	1000	0.500		2.50
	TI	M7600003K	1000	0.500		2.50
	SR	M7600002S	1000	0.500		2.50
	P	—	1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
CK 3/12/18	A	M7600003T 10%	M7600004D 5%	M34
NM 3/13/18	B	M7600003T 2%	M7600004D 5%	M35
NM 3/14/18	C	M7600003T 10%	M7600004D 5%	M35
CK 3/15/18	D	M7600003T 10%	M7600004D 5%	M34
	E			
	F			
	G			
	H			
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			



OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7080013X	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M7600002L	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M7600001R	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M7600001I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M7080012Z	1000	0.200		0.200
	MO	M7600002V	1000	0.025		0.0250
	SN	M7600002T	1000	0.500		0.500
	TI	M7080013R	1000	0.050		0.0500
	SB	M7600001G	1000	0.060		0.0600
	SR	M7080014G	1000	0.100		0.100
	P		1000	0.100		0.100

Analyst/Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 4/22/17	A	M7600002W 2%	M7600003D 5%	5/22/18	M25/M35
NM 4/22/17	B	M7600002W 10%	M7600003D 5%	5/22/18	M25/M35
NM 7/29/18	C	M7600002W 10%	M7600003D 5%	7/29/18	M25/M35
	D		4D		
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M7600002W 10%	M7600002I 5%	4/13/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

✓ CM 11/30/17

OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M7080013Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/9/17	A	M7600002N 10%	M7600003D 5%	5/9/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
NM 7/29/18	D	M7600003T 2%	M7600004D 5%	7/29/18	Volumetric
NM 7/29/18	E	M7600003T 10%	M7600004D 5%	7/29/18	Volumetric
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

NM 7/29/18

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
						5% HCl 2% HNO3	NM 11/9/17	A	M7600002W	M7600003D	5/9/18	M35
Y	M7600003F	10000	2.0	2000	10.0		NM 11/27/17	B	M7600002W	M7600003D	5/27/18	M35
CS	M7600003E	10000	2.0		10.0		NM 11/28/17	C	M7600002W	M7600003D	5/28/18	M35
							NM 11/30/17	D	M7600003T	M7600003D	5/30/18	M35
							NM 12/8/17	E	M7600003T	M7600003D	6/8/18	M35
							NM 12/15/17	F	M7600003T	M7600003D	6/15/18	M35
							NM 12/28/17	G	M7600003T	M7600003D	8/28/18	M35
							NM 1/15/18	H	M7600003T	M7600003D	7/15/18	M34
							NM 1/29/18	I	M7600003T	M7600004D	7/29/18	M34
							NM 2/13/18	J	M7600003T	M7600004D	8/13/18	M34
							NM 2/20/18	K	M7600003T	M7600004D	8/20/18	M34
							CK 3/16/18	L	M7600003T	M7600004D	9/16/18	M34
							NM 3/14/18	M	M7600003T	M7600004D	9/14/18	M35
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

### Sample Dilutions

Analyst: CK  
 Instrument: ICPL

Date: 3/15/12  
 Analysis: 200/10010

Common Dilutions																
Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	1% HNO3	3	3	1/2												
1/3	1% HNO3	3	6	1/3												
1/4	1% HNO3	2	6	1/4												
1/5	1% HNO3	2	8	1/5												
1/10	1% HNO3	1	9	1/10												
1/20	1% HNO3	3	3	1/2	1	9	1/20									
1/30	1% HNO3	3	6	1/3	1	9	1/30									
1/40	1% HNO3	1	3	1/4	1	9	1/40									
1/50	1% HNO3	1	4	1/5	1	9	1/50									
1/100	1% HNO3	1	9	1/100	1	9	1/100									
1/200	1% HNO3	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	1% HNO3	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	1% HNO3	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	1% HNO3	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	1% HNO3	1	9	1/1000	1	9	1/1000	1	9	1/1000						
1/2000	1% HNO3	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	1% HNO3	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	1% HNO3	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	1% HNO3	1	9	1/10000	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	1% HNO3	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	1/20000
1/40000	1% HNO3	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	1/40000
1/100000	1% HNO3	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000

Special Dilutions																
Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583776 Method/Testcode: 200.7/A1 T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802340-01	Aluminum, Total	MB		Water	0.00 ppm	10 mL	100 µg/L U	1	90	100			3/15/18 14:46:20	N	II
RQ1802340-01	Calcium, Total	MB		Water	-0.04 ppm	10 mL	1000 µg/L U	1	80	1000			3/15/18 14:46:20	N	II
RQ1802340-01	Chromium, Total	MB		Water	0.00 ppm	10 mL	10 µg/L U	1	2	10			3/15/18 14:46:20	N	II
RQ1802340-01	Iron, Total	MB		Water	0.00 ppm	10 mL	100 µg/L U	1	60	100			3/15/18 14:46:20	N	II
RQ1802340-01	Lead, Total	MB		Water	0.00 ppm	10 mL	50 µg/L U	1	3	50			3/15/18 14:46:20	N	II
RQ1802340-01	Magnesium, Total	MB		Water	0.00 ppm	10 mL	1000 µg/L U	1	200	1000			3/15/18 14:46:20	N	II
RQ1802340-01	Manganese, Total	MB		Water	0.00 ppm	10 mL	10 µg/L U	1	3	10			3/15/18 14:46:20	N	II
RQ1802340-01	Potassium, Total	MB		Water	0.01 ppm	10 mL	2000 µg/L U	1	300	2000			3/15/18 14:46:20	N	II
RQ1802340-01	Sodium, Total	MB		Water	0.05 ppm	10 mL	1000 µg/L U	1	200	1000			3/15/18 14:46:20	N	II
RQ1802340-01	Zinc, Total	MB		Water	0.00 ppm	10 mL	20 µg/L U	1	10	20			3/15/18 14:46:20	N	II
RQ1802340-02	Aluminum, Total	LCS		Water	1.90 ppm	10 mL	1900 µg/L	1	90	100	95		3/15/18 14:49:38	N	II
RQ1802340-02	Calcium, Total	LCS		Water	1.83 ppm	10 mL	1830 µg/L	1	80	1000	91		3/15/18 14:49:38	N	II
RQ1802340-02	Chromium, Total	LCS		Water	0.21 ppm	10 mL	207 µg/L	1	2	10	104		3/15/18 14:49:38	N	II
RQ1802340-02	Iron, Total	LCS		Water	1.00 ppm	10 mL	998 µg/L	1	60	100	100		3/15/18 14:49:38	N	II
RQ1802340-02	Lead, Total	LCS		Water	0.51 ppm	10 mL	513 µg/L	1	3	50	103		3/15/18 14:49:38	N	II
RQ1802340-02	Magnesium, Total	LCS		Water	1.97 ppm	10 mL	1970 µg/L	1	200	1000	99		3/15/18 14:49:38	N	II
RQ1802340-02	Manganese, Total	LCS		Water	0.51 ppm	10 mL	508 µg/L	1	3	10	102		3/15/18 14:49:38	N	II
RQ1802340-02	Potassium, Total	LCS		Water	20.24 ppm	10 mL	20200 µg/L	1	300	2000	101		3/15/18 14:49:38	N	II
RQ1802340-02	Sodium, Total	LCS		Water	20.61 ppm	10 mL	20600 µg/L	1	200	1000	103		3/15/18 14:49:38	N	II
RQ1802340-02	Zinc, Total	LCS		Water	0.50 ppm	10 mL	504 µg/L	1	10	20	101		3/15/18 14:49:38	N	II
R1802053-001	Aluminum, Total	N/A		Water	0.09 ppm	10 mL	100 µg/L U	1	90	100			3/15/18 14:52:57	N	II
R1802053-001	Calcium, Total	N/A		Water	107.01 ppm	10 mL	107000 µg/L	1	80	1000			3/15/18 14:52:57	N	II
R1802053-001	Chromium, Total	N/A		Water	0.00 ppm	10 mL	10 µg/L U	1	2	10			3/15/18 14:52:57	N	II
R1802053-001	Iron, Total	N/A		Water	0.07 ppm	10 mL	100 µg/L U	1	60	100			3/15/18 14:52:57	N	II
R1802053-001	Lead, Total	N/A		Water	0.00 ppm	10 mL	50 µg/L U	1	3	50			3/15/18 14:52:57	N	II
R1802053-001	Magnesium, Total	N/A		Water	26.77 ppm	10 mL	26800 µg/L	1	200	1000			3/15/18 14:52:57	N	II
R1802053-001	Manganese, Total	N/A		Water	0.03 ppm	10 mL	26 µg/L	1	3	10			3/15/18 14:52:57	N	II
R1802053-001	Potassium, Total	N/A		Water	5.06 ppm	10 mL	5100 µg/L	1	300	2000			3/15/18 14:52:57	N	II
R1802053-001	Sodium, Total	N/A		Water	54.13 ppm	10 mL	54100 µg/L	1	200	1000			3/15/18 14:52:57	N	II
R1802053-001	Zinc, Total	N/A		Water	0.00 ppm	10 mL	20 µg/L U	1	10	20			3/15/18 14:52:57	N	II
RQ1802340-03	Aluminum, Total	MS	R1802053-001	Water	2.15 ppm	10 mL	2150 µg/L	1	90	100	108		3/15/18 14:56:15	N	II
RQ1802340-03	Calcium, Total	MS	R1802053-001	Water	108.44 ppm	10 mL	108000 µg/L	1	80	1000	71		3/15/18 14:56:15	N	II
RQ1802340-03	Chromium, Total	MS	R1802053-001	Water	0.21 ppm	10 mL	205 µg/L	1	2	10	103		3/15/18 14:56:15	N	II
RQ1802340-03	Iron, Total	MS	R1802053-001	Water	1.07 ppm	10 mL	1070 µg/L	1	60	100	107		3/15/18 14:56:15	N	II
RQ1802340-03	Lead, Total	MS	R1802053-001	Water	0.50 ppm	10 mL	497 µg/L	1	3	50	99		3/15/18 14:56:15	N	II
RQ1802340-03	Magnesium, Total	MS	R1802053-001	Water	28.52 ppm	10 mL	28500 µg/L	1	200	1000	88		3/15/18 14:56:15	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583776 Method/Testcode: 200.7/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802340-03	Manganese, Total	MS	R1802053-001	Water	0.53 ppm	10 mL	533 µg/L	1	3	10	101		3/15/18 14:56:15	N	II
RQ1802340-03	Potassium, Total	MS	R1802053-001	Water	26.32 ppm	10 mL	26300 µg/L	1	300	2000	106		3/15/18 14:56:15	N	II
RQ1802340-03	Sodium, Total	MS	R1802053-001	Water	73.59 ppm	10 mL	73600 µg/L	1	200	1000	97		3/15/18 14:56:15	N	II
RQ1802340-03	Zinc, Total	MS	R1802053-001	Water	0.50 ppm	10 mL	496 µg/L	1	10	20	99		3/15/18 14:56:15	N	II
RQ1802340-04	Aluminum, Total	DMS	R1802053-001	Water	2.13 ppm	10 mL	2130 µg/L	1	90	100	107	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Calcium, Total	DMS	R1802053-001	Water	107.59 ppm	10 mL	108000 µg/L	1	80	1000	29*	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Chromium, Total	DMS	R1802053-001	Water	0.20 ppm	10 mL	204 µg/L	1	2	10	102	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Iron, Total	DMS	R1802053-001	Water	1.06 ppm	10 mL	1060 µg/L	1	60	100	106	1	3/15/18 14:59:34	N	II
RQ1802340-04	Lead, Total	DMS	R1802053-001	Water	0.49 ppm	10 mL	495 µg/L	1	3	50	99	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Magnesium, Total	DMS	R1802053-001	Water	28.23 ppm	10 mL	28200 µg/L	1	200	1000	73	1	3/15/18 14:59:34	N	II
RQ1802340-04	Manganese, Total	DMS	R1802053-001	Water	0.53 ppm	10 mL	531 µg/L	1	3	10	101	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Potassium, Total	DMS	R1802053-001	Water	26.21 ppm	10 mL	26200 µg/L	1	300	2000	106	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Sodium, Total	DMS	R1802053-001	Water	72.91 ppm	10 mL	72900 µg/L	1	200	1000	94	<1	3/15/18 14:59:34	N	II
RQ1802340-04	Zinc, Total	DMS	R1802053-001	Water	0.49 ppm	10 mL	491 µg/L	1	10	20	98	<1	3/15/18 14:59:34	N	II

*Handwritten note:* \* to be 2

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583773 Method/Testcode: 6010C/As TCLP

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802339-01	Arsenic	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			3/15/18 10:12:26	N	IV
2Q1802339-01	Barium	MB		Soil	0.00 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			3/15/18 10:12:26	N	IV
2Q1802339-01	Cadmium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:12:26	N	IV
2Q1802339-01	Chromium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:12:26	N	IV
2Q1802339-01	Lead	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:12:26	N	IV
2Q1802339-01	Selenium	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			3/15/18 10:12:26	N	IV
2Q1802339-01	Silver	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:12:26	N	IV
2Q1802339-02	Arsenic	LCS		Soil	0.99 ppm	50 mL	0.989 mg/L	1	0.25	0.50	99		3/15/18 10:15:45	N	IV
2Q1802339-02	Barium	LCS		Soil	2.08 ppm	50 mL	2.08 mg/L	1	0.5	1.0	104		3/15/18 10:15:45	N	IV
2Q1802339-02	Cadmium	LCS		Soil	0.51 ppm	50 mL	0.512 mg/L	1	0.05	0.10	102		3/15/18 10:15:45	N	IV
2Q1802339-02	Chromium	LCS		Soil	0.52 ppm	50 mL	0.521 mg/L	1	0.05	0.10	104		3/15/18 10:15:45	N	IV
2Q1802339-02	Lead	LCS		Soil	0.52 ppm	50 mL	0.519 mg/L	1	0.05	0.10	104		3/15/18 10:15:45	N	IV
2Q1802339-02	Selenium	LCS		Soil	1.01 ppm	50 mL	1.01 mg/L	1	0.25	0.50	101		3/15/18 10:15:45	N	IV
2Q1802339-02	Silver	LCS		Soil	0.25 ppm	50 mL	0.248 mg/L	1	0.05	0.10	99		3/15/18 10:15:45	N	IV
2Q1802316-01	Arsenic	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			3/15/18 10:19:04	N	IV
2Q1802316-01	Barium	MB		Soil	0.00 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			3/15/18 10:19:04	N	IV
2Q1802316-01	Cadmium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:19:04	N	IV
2Q1802316-01	Chromium	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:19:04	N	IV
2Q1802316-01	Lead	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:19:04	N	IV
2Q1802316-01	Selenium	MB		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			3/15/18 10:19:04	N	IV
2Q1802316-01	Silver	MB		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:19:04	N	IV
21801855-001	Lead	N/A		Soil	0.27 ppm	50 mL	0.27 mg/L	1	0.05	0.10			3/15/18 10:22:23	N	IV
2Q1802339-03	Lead	MS	R1801855-001	Soil	0.77 ppm	50 mL	0.77 mg/L	1	0.05	0.10	100		3/15/18 10:25:42	N	IV
2Q1802339-04	Lead	DMS	R1801855-001	Soil	0.77 ppm	50 mL	0.77 mg/L	1	0.05	0.10	100	<1	3/15/18 10:29:01	N	IV
21801855-002	Arsenic	N/A		Soil	0.01 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			3/15/18 10:38:59	N	IV
21801855-002	Barium	N/A		Soil	0.30 ppm	50 mL	1.0 mg/L U	1	0.5	1.0			3/15/18 10:38:59	N	IV
21801855-002	Cadmium	N/A		Soil	0.01 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:38:59	N	IV
21801855-002	Chromium	N/A		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:38:59	N	IV
21801855-002	Lead	N/A		Soil	0.06 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:38:59	N	IV
21801855-002	Selenium	N/A		Soil	0.00 ppm	50 mL	0.50 mg/L U	1	0.25	0.50			3/15/18 10:38:59	N	IV
21801855-002	Silver	N/A		Soil	0.00 ppm	50 mL	0.10 mg/L U	1	0.05	0.10			3/15/18 10:38:59	N	IV
21801855-003	Lead	N/A		Soil	0.72 ppm	50 mL	0.72 mg/L	1	0.05	0.10			3/15/18 10:42:18	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583774

Method/Testcode: 200.7/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1802050-002	Chromium, Total	N/A		Water	0.01 ppm	10 mL	0.011 mg/L	1	0.002	0.010			3/15/18 10:58:53	N	II
R1802050-003	Chromium, Total	N/A		Water	0.03 ppm	10 mL	0.032 mg/L	1	0.002	0.010			3/15/18 11:02:12	N	II
R1802050-004	Chromium, Total	N/A		Water	0.00 ppm	10 mL	0.010 mg/L U	1	0.002	0.010			3/15/18 11:05:31	N	II
R1801821-001	Calcium, Total	N/A		Water	24.95 ppm	50 mL	250000 µg/L	10	4000	10000			3/15/18 11:15:27	N	IV
R1801822-001	Calcium, Total	N/A		Water	41.05 ppm	50 mL	410000 µg/L	10	4000	10000			3/15/18 11:18:46	N	IV
R1801822-011	Calcium, Total	N/A		Water	22.44 ppm	50 mL	224000 µg/L	10	4000	10000			3/15/18 11:22:05	N	IV
R1801822-019	Calcium, Total	N/A		Water	34.08 ppm	50 mL	341000 µg/L	10	4000	10000			3/15/18 11:32:02	N	IV
R1801822-025	Calcium, Total	N/A		Water	21.19 ppm	50 mL	212000 µg/L	10	4000	10000			3/15/18 11:35:22	Y	IV
RQ1802051-03	Calcium, Total	MS	R1801822-025	Water	20.78 ppm	50 mL	208000 µg/L	10	4000	10000	-205*		3/15/18 11:38:41	N	IV
RQ1802051-04	Calcium, Total	DMS	R1801822-025	Water	20.82 ppm	50 mL	208000 µg/L	10	4000	10000	-183*	<1	3/15/18 11:42:01	N	IV
R1801822-026	Calcium, Total	N/A		Water	20.89 ppm	50 mL	209000 µg/L	10	4000	10000			3/15/18 11:51:58	N	IV
R1801851-001	Calcium, Total	N/A		Water	39.12 ppm	50 mL	391000 µg/L	10	4000	10000			3/15/18 11:55:17	N	IV
R1801851-001	Manganese, Total	N/A		Water	1.80 ppm	50 mL	18000 µg/L	10	50	100			3/15/18 11:55:17	N	IV
R1801851-001	Sodium, Total	N/A		Water	77.53 ppm	50 mL	775000 µg/L	10	4000	10000			3/15/18 11:55:17	N	IV
R1801851-002	Calcium, Total	N/A		Water	35.75 ppm	50 mL	357000 µg/L	10	4000	10000			3/15/18 11:58:36	N	IV
R1801851-002	Sodium, Total	N/A		Water	62.80 ppm	50 mL	628000 µg/L	10	4000	10000			3/15/18 11:58:36	N	IV

set to low

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583775

Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802047-01	Calcium, Total	MB		Water	0.06 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 12:35:10	N	IV
2Q1802047-01	Sodium, Total	MB		Water	0.04 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 12:35:10	N	IV
2Q1802047-02	Calcium, Total	LCS		Water	1.86 ppm	50 mL	1860 µg/L	1	400	1000	93		3/15/18 12:38:28	N	IV
2Q1802047-02	Sodium, Total	LCS		Water	20.50 ppm	50 mL	20500 µg/L	1	400	1000	102		3/15/18 12:38:28	N	IV
21801692-004	Thallium, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L J	1	6	10			3/15/18 12:41:47	N	IV
21801692-006	Thallium, Total	N/A		Water	0.02 ppm	50 mL	24 µg/L	1	6	10			3/15/18 12:45:06	N	IV
21801692-017	Potassium, Total	N/A		Water	31.96 ppm	50 mL	32000 µg/L	1	300	2000			3/15/18 12:48:25	N	IV
21801692-017	Thallium, Total	N/A		Water	0.02 ppm	50 mL	19 µg/L	1	6	10			3/15/18 12:48:25	N	IV
21801692-020	Potassium, Total	N/A		Water	8.24 ppm	50 mL	8200 µg/L	1	300	2000			3/15/18 12:51:44	N	IV
21801692-020	Thallium, Total	N/A		Water	0.01 ppm	50 mL	9 µg/L J	1	6	10			3/15/18 12:51:44	N	IV
21801692-018	Potassium, Total	N/A		Water	50.40 ppm	50 mL	50400 µg/L	1	300	2000			3/15/18 12:55:03	N	IV
21801692-019	Potassium, Total	N/A		Water	58.41 ppm	50 mL	58400 µg/L	1	300	2000			3/15/18 12:58:22	N	IV
21801692-021	Potassium, Total	N/A		Water	91.55 ppm	50 mL	91500 µg/L	1	300	2000			3/15/18 13:01:40	N	IV
21801692-001	Calcium, Total	N/A		Water	31.45 ppm	50 mL	314000 µg/L	10	4000	10000			3/15/18 13:04:59	N	IV
21801692-001	Sodium, Total	N/A		Water	18.49 ppm	50 mL	185000 µg/L	10	4000	10000			3/15/18 13:04:59	N	IV
21801692-002	Calcium, Total	N/A		Water	59.74 ppm	50 mL	597000 µg/L	10	4000	10000			3/15/18 13:14:55	N	IV
21801692-002	Sodium, Total	N/A		Water	42.30 ppm	50 mL	423000 µg/L	10	4000	10000			3/15/18 13:14:55	N	IV
21801692-003	Calcium, Total	N/A		Water	72.80 ppm	50 mL	728000 µg/L	10	4000	10000			3/15/18 13:18:13	N	IV
21801692-003	Sodium, Total	N/A		Water	38.12 ppm	50 mL	381000 µg/L	10	4000	10000			3/15/18 13:18:13	N	IV
21801692-004	Calcium, Total	N/A		Water	37.40 ppm	50 mL	374000 µg/L	10	4000	10000			3/15/18 13:21:33	N	IV
21801692-004	Sodium, Total	N/A		Water	20.56 ppm	50 mL	206000 µg/L	10	4000	10000			3/15/18 13:21:33	N	IV
21801692-005	Calcium, Total	N/A		Water	114.37 ppm	50 mL	1140000 µg/L	10	4000	10000			3/15/18 13:24:52	N	IV
21801692-005	Sodium, Total	N/A		Water	86.78 ppm	50 mL	868000 µg/L	10	4000	10000			3/15/18 13:24:52	N	IV
21801692-006	Calcium, Total	N/A		Water	79.95 ppm	50 mL	799000 µg/L	10	4000	10000			3/15/18 13:28:12	N	IV
21801692-006	Sodium, Total	N/A		Water	53.03 ppm	50 mL	530000 µg/L	10	4000	10000			3/15/18 13:28:12	N	IV
21801692-007	Calcium, Total	N/A		Water	76.95 ppm	50 mL	770000 µg/L	10	4000	10000			3/15/18 13:31:32	N	IV
21801692-007	Sodium, Total	N/A		Water	43.36 ppm	50 mL	434000 µg/L	10	4000	10000			3/15/18 13:31:32	N	IV
21801692-008	Calcium, Total	N/A		Water	21.59 ppm	50 mL	2160000 µg/L	100	40000	100000			3/15/18 13:34:51	N	IV
21801692-008	Sodium, Total	N/A		Water	17.83 ppm	50 mL	1780000 µg/L	100	40000	100000			3/15/18 13:34:51	N	IV
21801692-010	Calcium, Total	N/A		Water	64.58 ppm	50 mL	646000 µg/L	10	4000	10000			3/15/18 13:41:32	N	IV
21801692-010	Sodium, Total	N/A		Water	38.89 ppm	50 mL	389000 µg/L	10	4000	10000			3/15/18 13:41:32	N	IV
21801692-011	Calcium, Total	N/A		Water	66.56 ppm	50 mL	666000 µg/L	10	4000	10000			3/15/18 13:44:52	Y	IV
21801692-011	Sodium, Total	N/A		Water	60.58 ppm	50 mL	606000 µg/L	10	4000	10000			3/15/18 13:44:52	Y	IV
2Q1802047-03	Calcium, Total	MS	R1801692-011	Water	67.06 ppm	50 mL	671000 µg/L	10	4000	10000	251*		3/15/18 13:54:49	N	IV
2Q1802047-03	Sodium, Total	MS	R1801692-011	Water	62.69 ppm	50 mL	627000 µg/L	10	4000	10000	106		3/15/18 13:54:49	N	IV
2Q1802047-04	Calcium, Total	DMS	R1801692-011	Water	67.76 ppm	50 mL	678000 µg/L	10	4000	10000	600*	1	3/15/18 13:58:08	N	IV

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583775 Method/Testcode: 6010C/Na T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802047-04	Sodium, Total	DMS	R1801692-011	Water	63.41 ppm	50 mL	634000 µg/L	10	4000	10000	142*	1	3/15/18 13:58:08	N	IV
R1801692-012	Calcium, Total	N/A		Water	105.73 ppm	50 mL	1060000 µg/L	10	4000	10000			3/15/18 14:08:04	N	IV
R1801692-012	Sodium, Total	N/A		Water	45.64 ppm	50 mL	456000 µg/L	10	4000	10000			3/15/18 14:08:04	N	IV
R1801692-013	Calcium, Total	N/A		Water	108.93 ppm	50 mL	1090000 µg/L	10	4000	10000			3/15/18 14:11:23	N	IV
R1801692-013	Sodium, Total	N/A		Water	47.17 ppm	50 mL	472000 µg/L	10	4000	10000			3/15/18 14:11:23	N	IV
R1801692-014	Calcium, Total	N/A		Water	61.35 ppm	50 mL	614000 µg/L	10	4000	10000			3/15/18 14:14:42	N	IV
R1801692-014	Sodium, Total	N/A		Water	55.92 ppm	50 mL	559000 µg/L	10	4000	10000			3/15/18 14:14:42	N	IV
R1801692-016	Calcium, Total	N/A		Water	54.02 ppm	50 mL	540000 µg/L	10	4000	10000			3/15/18 14:18:01	N	IV
R1801692-016	Sodium, Total	N/A		Water	36.67 ppm	50 mL	367000 µg/L	10	4000	10000			3/15/18 14:18:01	N	IV
R1801692-017	Calcium, Total	N/A		Water	73.19 ppm	50 mL	732000 µg/L	10	4000	10000			3/15/18 14:21:20	N	IV
R1801692-017	Sodium, Total	N/A		Water	42.79 ppm	50 mL	428000 µg/L	10	4000	10000			3/15/18 14:21:20	N	IV
R1801692-018	Calcium, Total	N/A		Water	16.58 ppm	50 mL	1660000 µg/L	100	40000	100000			3/15/18 14:24:40	N	IV
R1801692-018	Sodium, Total	N/A		Water	11.75 ppm	50 mL	1170000 µg/L	100	40000	100000			3/15/18 14:24:40	N	IV
R1801692-019	Calcium, Total	N/A		Water	105.35 ppm	50 mL	1050000 µg/L	10	4000	10000			3/15/18 14:34:37	N	IV
R1801692-019	Sodium, Total	N/A		Water	59.59 ppm	50 mL	596000 µg/L	10	4000	10000			3/15/18 14:34:37	N	IV
R1801692-020	Calcium, Total	N/A		Water	33.02 ppm	50 mL	330000 µg/L	10	4000	10000			3/15/18 14:37:57	N	IV
R1801692-020	Sodium, Total	N/A		Water	21.64 ppm	50 mL	216000 µg/L	10	4000	10000			3/15/18 14:37:57	N	IV
R1801692-021	Calcium, Total	N/A		Water	14.59 ppm	50 mL	1460000 µg/L	100	40000	100000			3/15/18 14:41:16	N	IV
R1801692-021	Sodium, Total	N/A		Water	8.87 ppm	50 mL	890000 µg/L	100	40000	100000			3/15/18 14:41:16	N	IV

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	977	98	1000	979	98	982	98	P
Barium	10000	10200	102	10000	10300	103	10200	102	P
Cadmium	500	502	100	500	501	100	502	100	P
Mercury	3.00	2.97	99	3.00	2.99	100	3.01	100	CV
Chromium	500	522	104	500	527	105	525	105	P
Lead	500	500	100	500	503	101	503	101	P
Selenium	500	486	97	500	490	98	508	102	P
Silver	500	483	97	500	482	96	484	97	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	985	98	982	98	P
Barium				10000	10300	103	10200	102	P
Cadmium				500	502	100	498	100	P
Mercury				3.00	3.05	102	3.06	102	CV
Chromium				500	531	106	525	105	P
Lead				500	506	101	503	101	P
Selenium				500	503	101	505	101	P
Silver				500	489	98	483	97	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	988	99			P
Barium				10000	10200	102			P
Cadmium				500	498	100			P
Mercury				3.00	3.08	103			CV
Chromium				500	527	105			P
Lead				500	500	100			P
Selenium				500	501	100			P
Silver				500	483	97			P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L		Continuing Calibration Blank ug/L						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Arsenic	500.00	U	500.00	U	500.00	U	500.00	U	500.000	U	P
Barium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Cadmium	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Chromium	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Lead	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Selenium	500.00	U	500.00	U	500.00	U	500.00	U	500.000	U	P
Silver	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P

Comments:

**METALS**

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**BLANKS**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		500.00	U	500.00	U					P
Barium		1000.00	U	1000.00	U					P
Cadmium		100.00	U	100.00	U					P
Mercury		0.200	U	0.200	U					CV
Chromium		100.00	U	100.00	U					P
Lead		100.00	U	100.00	U					P
Selenium		500.00	U	500.00	U					P
Silver		100.00	U	100.00	U					P

Comments:



METALS  
-14-

ANALYSIS RUN LOG

Contract: R1801855  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	09:29				X	X		X	X				X						X	X					
STANDARD 1	1.00	09:32				X	X		X	X				X						X	X					
STANDARD 2	1.00	09:35				X	X		X	X				X						X	X					
STANDARD 3	1.00	09:39				X	X		X	X				X						X	X					
STANDARD 4	1.00	09:42				X	X		X	X				X						X	X					
STANDARD 5	1.00	09:45				X	X		X	X				X						X	X					
ICV1	1.00	09:49				X	X		X	X				X						X	X					
ICB1	1.00	09:52				X	X		X	X				X						X	X					
CRDL1	1.00	09:55				X	X		X	X				X						X	X					
ICS-A1	1.00	09:59				X	X		X	X				X						X	X					
ICS-AB1	1.00	10:02				X	X		X	X				X						X	X					
CCV1	1.00	10:05				X	X		X	X				X						X	X					
CCB1	1.00	10:09				X	X		X	X				X						X	X					
PBT	1.00	10:12				X	X		X	X				X						X	X					
LCST	1.00	10:15				X	X		X	X				X						X	X					
ZZZZZ	1.00	10:19																								
TP-02 (4.0)	1.00	10:22												X												
TP-02 (4.0)S	1.00	10:25												X												
TP-02 (4.0)SD	1.00	10:29												X												
TP-02 (4.0)A	1.00	10:32												X												
TP-02 (4.0)L	5.00	10:35												X												
TP-13 (1.0-2.0)	1.00	10:38				X	X		X	X				X						X	X					
TP-14 (3.5)	1.00	10:42												X												
CCV2	1.00	10:45				X	X		X	X				X						X	X					
CCB2	1.00	10:48				X	X		X	X				X						X	X					
ZZZZZ	1.00	10:52																								
ZZZZZ	1.00	10:55																								
ZZZZZ	1.00	10:58																								
ZZZZZ	1.00	11:02																								
ZZZZZ	1.00	11:05																								
ZZZZZ	1.00	11:08																								
ZZZZZ	1.00	11:12																								
ZZZZZ	10.00	11:15																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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ANALYSIS RUN LOG

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
ZZZZZZ	10.00	11:18																								
ZZZZZZ	10.00	11:22																								
CCV3	1.00	11:25			X	X		X	X				X							X	X					
CCB3	1.00	11:28			X	X		X	X				X							X	X					
ZZZZZZ	10.00	11:32																								
ZZZZZZ	10.00	11:35																								
ZZZZZZ	10.00	11:38																								
ZZZZZZ	1.00	11:42																								
ZZZZZZ	10.00	11:45																								
ZZZZZZ	10.00	11:48																								
ZZZZZZ	10.00	11:51																								
ZZZZZZ	10.00	11:55																								
ZZZZZZ	10.00	11:58																								
CCV4	1.00	12:01			X	X		X	X				X							X	X					
CCB4	1.00	12:05			X	X		X	X				X							X	X					
CRDL2	1.00	12:08			X	X		X	X				X							X	X					
ICS-A2	1.00	12:11			X	X		X	X				X							X	X					
ICS-AB2	1.00	12:15			X	X		X	X				X							X	X					
ZZZZZZ	1.00	12:18																								
ZZZZZZ	1.00	12:21																								
ZZZZZZ	1.00	12:25																								
CCV5	1.00	12:28			X	X		X	X				X							X	X					
CCB5	1.00	12:31			X	X		X	X				X							X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



METALS  
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ANALYSIS RUN LOG

Contract: R1801855  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: TP-02 (4.0)  
 Instrument ID Number: PE FAA/CVAA Method: CV  
 Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.00	13:31																													
ZZZZZZ	1.00	13:33																													
ZZZZZZ	1.00	13:34																													
ZZZZZZ	1.00	13:36																													
ZZZZZZ	1.00	13:38																													
CCV4	1.00	13:39																X													
CCB4	1.00	13:41															X														
ZZZZZZ	1.00	13:43																													
ZZZZZZ	1.00	13:44																													
TP-02 (4.0)	1.00	13:46																X													
TP-02 (4.0)S	1.00	13:48																X													
TP-02 (4.0)SD	1.00	13:49																X													
TP-13 (1.0-2.0)	1.00	13:51																X													
TP-14 (3.5)	1.00	13:53																X													
CRDL2	1.00	13:54																X													
CCV5	1.00	13:56																X													
CCB5	1.00	13:57																X													

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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PREPARATION LOG

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
LCST	3/13/2018	50.0	50.0
PBT	3/13/2018	50.0	50.0
TP-02 (4.0)	3/13/2018	50.0	50.0
TP-02 (4.0) S	3/13/2018	50.0	50.0
TP-02 (4.0) SD	3/13/2018	50.0	50.0
TP-13 (1.0-2.0)	3/13/2018	50.0	50.0
TP-14 (3.5)	3/13/2018	50.0	50.0

Comments:

**METALS**

-13-

**PREPARATION LOG**

Contract: R1801855

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: TP-02 (4.0)

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
LCST	3/14/2018	25.0	25.0
PBT	3/14/2018	25.0	25.0
TP-02 (4.0)	3/14/2018	25.0	25.0
TP-02 (4.0) S	3/14/2018	25.0	25.0
TP-02 (4.0) SD	3/14/2018	25.0	25.0
TP-13 (1.0-2.0)	3/14/2018	25.0	25.0
TP-14 (3.5)	3/14/2018	25.0	25.0

Comments:



**PLM & TEM BULK ASBESTOS ANALYSIS REPORT**  
**via NYSDOH ELAP Method 198.1, 198.4 and 198.6**

**Client:** Day Environmental  
**Location:** Bulls Head  
Sub Area, North, Rochester, New York  
**Sample Date:** 2/15-16/2018

**Job No:** 4326-18  
**Page:** 1 of 2

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	Non-Fibrous Matrix Material %
1	37780	TP-04 (6.0-7.0)	Brown Soil	None Detected	0%		Not Required	N/A	None Detected	100%
2	37781	TP-05 (6.0)	Brown Soil	None Detected	0%		Not Required	N/A	None Detected	100%
3	37782	TP-06 (5.5)	Brown Soil	None Detected	0%		Not Required	N/A	None Detected	100%
4	37783	TP-08 (5.5)	Brown Soil	None Detected	0%		Not Required	N/A	None Detected	100%
5	37784	TP-17 (4.0)	Brown Soil	None Detected	0%		Not Required	N/A	None Detected	100%
6	37784a	TP-19 (3.0-4.0)	Brown Soil	None Detected	0%		Not Required	N/A	None Detected	100%

**KEY TO NOB COLUMN SYMBOLS**  
 No Symbol in the NOB column denotes sample analyzed by ELAP Method 198.1 (PLM).  
 √ NOB (non-friable organically bound) denotes material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.  
 √ denotes material analyzed by ELAP Method 198.6 (PLM) per NYSDOH. This Method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing greater than 10% vermiculite.  
 # denotes friable material analyzed by ELAP Method 198.6 (PLM) and 198.4 (TEM) as noted.  
 X denotes sample prepped only by ELAP Method 198.6.  
 \*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials.  
 Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Bulk Asbestos Analysis by New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.") or EPA 600/M4-82-020 per 40 CFR 763 and/or EPA 600/R-93/116 (NVLAP Lab Code 200530-0).

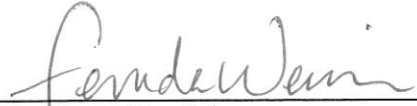


Lab Code 200530-0 for PLM Analysis

**PLM Date Analyzed:** 5/2/2018  
**Microscope:** Olympus BH-2 #232953  
**Analyst:** T. Bush

**TEM Date Analyzed:** N/A  
**TEM Analyst:** N/A

**ELAP ID No.:** 10958

**Laboratory Results Approved By:**   
**Asbestos Operations Manager or Designee** Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.

# CHAIN OF CUSTODY



**PROJECT REFERENCE**  
 Bull's Head Sub Area North  
 Rochester, NY

<b>REPORT TO:</b>		<b>CLIENT:</b> Day Environmental Int'l.		<b>INVOICE TO:</b>		<b>LAB PROJECT ID</b>	
<b>ADDRESS:</b> 1563 Lyle Ave		<b>ADDRESS:</b>		<b>STATE:</b> NY		<b>Quotation #:</b> 4326-18	
<b>CITY:</b> Rochester		<b>CITY:</b> SAME		<b>STATE:</b>		<b>ZIP:</b>	
<b>PHONE:</b> 585-454-0210		<b>PHONE:</b>		<b>ATTN:</b>		<b>Email:</b> Jdanzing@daymail.net	
<b>ATTN:</b> Jeff Danzinger		<b>WA - Water</b>		<b>DW - Drinking Water</b>		<b>SO - Soil</b>	
<b>Matrix Codes:</b> AQ - Aqueous Liquid NA - Non-Aqueous Liquid		<b>WG - Groundwater</b>		<b>WW - Wastewater</b>		<b>SL - Sludge</b>	
		<b>SD - Solid</b>		<b>PT - Paint</b>		<b>WP - Wipe</b>	
						<b>CK - Caulk</b>	
						<b>OL - Oil</b>	
						<b>AR - Air</b>	

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRADES	SAMPLE IDENTIFIER	MATERIALS	CONTAMINANTS	REQUESTED ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
2/15/18	1130	X		TP-04 (6.0-7.0)	So	1	X	Analyze portion of sample that has highest potential to be asbestos containing material.	781
2/15/18	1140	X		TP-05 (6.0)	So	1	X		782
2/15/18	1212	X		TP-06 (5.5)	So	1	X		783
2/15/18	1315	X		TP-08 (5.5)	So	1	X		784
2/16/18	11:00	X		TP-17 (4.0)	So	1	X		784A
2/14/18	1228	X		TP-19 (3.0-4.0)	So	1	X		784B

<b>Turnaround Time</b>		<b>Report Supplements</b>	
Availability contingent upon lab approval; additional fees may apply.			
Standard 5 day <input checked="" type="checkbox"/>	None Required <input checked="" type="checkbox"/>	None Required <input type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input type="checkbox"/>	Batch QC <input type="checkbox"/>	Basic EDD <input type="checkbox"/>	Other EDD <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input type="checkbox"/>	NVSDEC EDD <input type="checkbox"/>	Other <input type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>		
Rush 1 day <input type="checkbox"/>	Other <input type="checkbox"/>		
Other <input type="checkbox"/>		Other <input type="checkbox"/>	
please indicate date needed: _____		please indicate EDD needed: _____	

<b>Sampled By:</b> [Signature]	<b>Date/Time:</b> 2/14/18 @ 1228	<b>Total Cost:</b>
<b>Reinstigated By:</b> [Signature]	<b>Date/Time:</b> 4/27/18 @	
<b>Received By:</b> [Signature]	<b>Date/Time:</b> 4/27/18	<b>P.I.F.:</b>
<b>Received @ Lab By:</b> [Signature]	<b>Date/Time:</b> 4/28/18	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).  
 See additional page for sample conditions.





March 29, 2018

Service Request No:R1802137

Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Accounts Payable,

Enclosed are the results of the sample(s) submitted to our laboratory March 12, 2018  
For your reference, these analyses have been assigned our service request number **R1802137**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

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PHONE +1 585 288 5380 | FAX +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



---

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## Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Received:** 03/12/2018

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 03/12/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Semivolatiles by GC/MS:

Method 8270D, 03/14/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

#### Metals:

No significant anomalies were noted with this analysis.

#### Volatiles by GC/MS:

Method 8260C, 03/14/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink, appearing to read "Brady Kuller".

Approved by \_\_\_\_\_

Date 03/29/2018



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1802137-001	MW-01	3/9/2018	1245
R1802137-002	MW-02	3/9/2018	1250
R1802137-003	MW-03	3/9/2018	1425
R1802137-004	MW-04	3/9/2018	1555
R1802137-005	MW-05	3/9/2018	1600
R1802137-006	MW-06	3/9/2018	1545
R1802137-007	MW-07	3/9/2018	1410
R1802137-008	MW-08	3/9/2018	1547
R1802137-009	TBLANK-1	3/9/2018	



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

# 49934

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax)

PAGE 1 OF 1

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-1B</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE <b>1</b> <b>2</b>															
Company/Address <b>Day Environmental, Inc.</b> <b>1563 Lyell Avenue</b> <b>Rochester, NY 14606</b>		Email <b>jdanzinger@daymarl.net</b>		NUMBER OF CONTAINERS	GC/MS VOAs <b>TCL-1 STAR-1 EPA-51</b> ° 8260 ° 624 ° CLP GC/MS SVOAs <b>TCL</b> ° 8270 ° 825 GC VOAs ° 8021 ° 601/602 PESTICIDES ° 8081 ° 608 PCBs ° 8082 ° 608 METALS, TOTAL (List in comments below) <b>RCRA</b> METALS, DISSOLVED (List in comments below)												Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____		
Phone # <b>585-454-6210</b>		Sampler's Signature <b>[Signature]</b>																Sampler's Printed Name <b>CATALIN DEMIAN</b>	
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE TIME		MATRIX	1	2													
MW-01		3-9-18	12:45	GW	3	X													
MW-02		3-9-18	12:50	GW	21	X	X	also do ms/msd											
MW-03		3-9-18	14:25	GW	3	X													
MW-04		3-9-18	15:55	GW	3	X													
MW-05		3-9-18	16:00	GW	3	X													
MW-06		3-9-18	15:45	GW	3	X													
MW-07		3-9-18	14:10	GW	3	X													
MW-08		3-9-18	15:47	GW	7	X	X												
TBlank-1		3-9-18	-	Water	3	X													
SPECIAL INSTRUCTIONS/COMMENTS <b>Metals RCRA B</b>					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day <b>X 5 days</b> <b>15 day</b> REQUESTED REPORT DATE					REPORT REQUIREMENTS I. Results Only <b>X</b> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries <b>X</b> IV. Data Validation Report with Raw Data <b>NADEL EQUIS EXCEL</b> Edata <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					INVOICE INFORMATION <b>See 1/24/18 quote from Christina Curran</b> PO # <b>54645-1B</b> BILL TO: <b>SAME</b>				
See QAPP <input type="checkbox"/>																			
STATE WHERE SAMPLES WERE COLLECTED																			
RELINQUISHED BY <b>[Signature]</b>		RECEIVED BY <b>[Signature]</b>		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY					
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature					
Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name					
Firm <b>Day Environmental</b>		Firm <b>ALS</b>		Firm		Firm		Firm		Firm		Firm		Firm					
Date/Time <b>3/12/18 10:11</b>		Date/Time <b>3-12-18 10:11</b>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time					

**R1802137 5**  
 Day Environmental, Incorporated  
 Bulls Head North, Rochester, NY



# Cooler Receipt and Preservation Check Form

R1802137

5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day Environmental Folder Number R8-2137

Cooler received on 3-12-18 by: KE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were <b>Custody seals</b> on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	<b>Custody papers</b> properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
3	Did all bottles arrive in good <b>condition</b> (unbroken)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

5a	<b>Perchlorate</b> samples have required headspace?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* <b>bubbles</b> ?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 3-12-18 Time: 10:14 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.5</u>							
Correction Factor (°C)	<u>+1.0</u>							
Corrected Temp (°C)	<u>4.5</u>							
Temp from: Type of bottle	<u>cont tube</u>							
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
If <0°C, were samples frozen?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by KE on 3-12-18 at 10:16  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown: Date: 3/12/18 Time: 1643 by: dw

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>201817</u>	HNO <sub>3</sub>	<input checked="" type="checkbox"/>		<u>1117081</u>	<u>2/11</u>				
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
		ZnAcetate	-	-						
		HCl	**	**	<u>4115120</u>					

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 7-249-002, client label

Explain all Discrepancies/ Other Comments:

\* MW-02: 1 of 3 vials

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: sh  
PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1802137-001.01</b>					
	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1313	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-001.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-001.03</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-002.01</b>					
	6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1646	R-A01 / DWARD	
		3/13/2018	1610	In Lab / NMANSEN	
		3/13/2018	1625	R-A01 / NMANSEN	
<b>R1802137-002.09</b>					
	8270D				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-002 / DWARD	
		3/13/2018	0725	In Lab / MPEDRO	
<b>R1802137-002.10</b>					
	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1313	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-002.11</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-002.12</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-002.13</b>					

ALS Group USA, Corp.  
dba ALS Environmental

Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	7470A				
		3/12/2018	1645	SMO / DWARD	
		3/12/2018	1645	R-002 / DWARD	
		3/14/2018	1527	In Lab / NMANSEN	
		3/14/2018	1536	R-A01 / NMANSEN	
<b>R1802137-002.14</b>					
		3/12/2018	1646	SMO / DWARD	
		3/14/2018	1536	R-A01 / NMANSEN	
<b>R1802137-002.15</b>					
		3/12/2018	1646	SMO / DWARD	
		3/14/2018	1527	In Lab / NMANSEN	
		3/14/2018	1536	R-A01 / NMANSEN	
<b>R1802137-002.16</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.17</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.18</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.19</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.20</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.21</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.22</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.23</b>					
		3/12/2018	1646	SMO / DWARD	
		3/13/2018	0725	In Lab / MPEDRO	
<b>R1802137-002.24</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
		3/12/2018	1646	SMO / DWARD	
		3/13/2018	0725	In Lab / MPEDRO	
<b>R1802137-002.25</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.26</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.27</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-002.28</b>					
		3/12/2018	1646	SMO / DWARD	
<b>R1802137-003.01</b>	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1313	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-003.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-003.03</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-004.01</b>	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1313	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-004.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-004.03</b>					

**ALS Group USA, Corp.**  
dba ALS Environmental

**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-005.01</b>	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1313	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-005.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-005.03</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-006.01</b>	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1314	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-006.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-006.03</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-007.01</b>	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1314	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-007.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	

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**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1802137-007.03</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-008.01</b>					
	6010C,6010C,6010C,6010C,6010C,6010C,6010C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1646	R-A01 / DWARD	
		3/13/2018	1610	In Lab / NMANSEN	
		3/13/2018	1625	R-A01 / NMANSEN	
<b>R1802137-008.09</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-002 / DWARD	
<b>R1802137-008.10</b>					
	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1314	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<b>R1802137-008.11</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-008.12</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<b>R1802137-008.13</b>					
	7470A				
		3/12/2018	1645	SMO / DWARD	
		3/12/2018	1645	R-002 / DWARD	
		3/14/2018	1527	In Lab / NMANSEN	
		3/14/2018	1536	R-A01 / NMANSEN	
<b>R1802137-008.14</b>					
	8270D				
		3/12/2018	1651	SMO / DWARD	
		3/13/2018	0725	In Lab / MPEDRO	
<b>R1802137-009.01</b>					



ALS Group USA, Corp.  
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Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	8260C				
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
		3/13/2018	1313	In Lab / FNAEGLER	
		3/13/2018	1322	R-001-S08 / FNAEGLER	
<hr/>					
<b>R1802137-009.02</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<hr/>					
<b>R1802137-009.03</b>					
		3/12/2018	1644	SMO / DWARD	
		3/12/2018	1645	R-001 / DWARD	
<hr/>					



## Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

**Sample Name:** MW-01  
**Lab Code:** R1802137-001  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** MW-02  
**Lab Code:** R1802137-002  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
6010C  
6010C  
7470A  
8260C  
8270D

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
NMANSEN  
JMISIUREWICZ

**Analyzed By**  
NMANSEN  
CKUTZER  
NMANSEN  
FNAEGLER  
JMISIUREWICZ

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**Sample Name:** MW-03  
**Lab Code:** R1802137-003  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** MW-04  
**Lab Code:** R1802137-004  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

ALS Group USA, Corp.

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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

**Sample Name:** MW-05  
**Lab Code:** R1802137-005  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** MW-06  
**Lab Code:** R1802137-006  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** MW-07  
**Lab Code:** R1802137-007  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER

**Sample Name:** MW-08  
**Lab Code:** R1802137-008  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
6010C  
7470A  
8260C  
8270D

**Extracted/Digested By**  
NMANSEN  
NMANSEN  
JMISIUREWICZ

**Analyzed By**  
CKUTZER  
NMANSEN  
FNAEGLER  
JMISIUREWICZ

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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137

**Sample Name:** TBLANK-1  
**Lab Code:** R1802137-009  
**Sample Matrix:** Water

**Date Collected:** 03/9/18  
**Date Received:** 03/12/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
FNAEGLER



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.





# Sample Results

**ALS Environmental—Rochester Laboratory**  
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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-01  
**Lab Code:** R1802137-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 03:46	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 03:46	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 03:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 03:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 03:46	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 03:46	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 03:46	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 03:46	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 03:46	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 03:46	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 03:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,4-Dioxane	20 U	100	20	1	03/14/18 03:46	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 03:46	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 03:46	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 03:46	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 03:46	
Acetone	3.9 J	10	1.3	1	03/14/18 03:46	
Benzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 03:46	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 03:46	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 03:46	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 03:46	
Carbon Disulfide	1.1 J	10	0.22	1	03/14/18 03:46	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 03:46	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 03:46	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 03:46	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 03:46	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 03:46	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 03:46	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 03:46	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 03:46	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 03:46	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 03:46	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 03:46	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 03:46	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 03:46	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-01  
**Lab Code:** R1802137-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 03:46	
Toluene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 03:46	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 03:46	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 03:46	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 03:46	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 03:46	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 03:46	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 03:46	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 03:46	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 03:46	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 03:46	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 03:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/14/18 03:46	
Dibromofluoromethane	96	89 - 119	03/14/18 03:46	
Toluene-d8	98	87 - 121	03/14/18 03:46	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 04:08	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 04:08	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 04:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 04:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 04:08	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 04:08	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 04:08	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 04:08	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 04:08	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 04:08	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 04:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,4-Dioxane	20 U	100	20	1	03/14/18 04:08	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 04:08	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 04:08	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 04:08	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 04:08	
Acetone	1.3 U	10	1.3	1	03/14/18 04:08	
Benzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 04:08	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 04:08	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 04:08	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 04:08	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 04:08	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 04:08	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 04:08	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 04:08	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 04:08	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 04:08	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 04:08	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 04:08	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 04:08	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 04:08	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 04:08	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 04:08	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 04:08	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 04:08	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 04:08	
Toluene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 04:08	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 04:08	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 04:08	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 04:08	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 04:08	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 04:08	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 04:08	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 04:08	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 04:08	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 04:08	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 04:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/14/18 04:08	
Dibromofluoromethane	97	89 - 119	03/14/18 04:08	
Toluene-d8	100	87 - 121	03/14/18 04:08	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:25  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-03  
**Lab Code:** R1802137-003

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 04:30	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 04:30	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 04:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 04:30	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 04:30	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 04:30	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 04:30	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 04:30	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 04:30	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 04:30	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 04:30	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,4-Dioxane	20 U	100	20	1	03/14/18 04:30	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 04:30	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 04:30	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 04:30	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 04:30	
Acetone	1.3 U	10	1.3	1	03/14/18 04:30	
Benzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 04:30	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 04:30	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 04:30	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 04:30	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 04:30	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 04:30	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 04:30	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 04:30	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 04:30	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 04:30	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 04:30	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 04:30	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 04:30	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 04:30	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 04:30	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 04:30	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 04:30	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 04:30	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:25  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-03  
**Lab Code:** R1802137-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 04:30	
Toluene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 04:30	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 04:30	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 04:30	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 04:30	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 04:30	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 04:30	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 04:30	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 04:30	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 04:30	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 04:30	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 04:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/14/18 04:30	
Dibromofluoromethane	92	89 - 119	03/14/18 04:30	
Toluene-d8	95	87 - 121	03/14/18 04:30	



ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:55  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-04  
**Lab Code:** R1802137-004

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 04:52	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 04:52	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 04:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 04:52	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 04:52	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 04:52	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 04:52	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 04:52	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 04:52	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 04:52	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 04:52	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,4-Dioxane	20 U	100	20	1	03/14/18 04:52	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 04:52	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 04:52	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 04:52	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 04:52	
Acetone	1.8 J	10	1.3	1	03/14/18 04:52	
Benzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 04:52	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 04:52	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 04:52	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 04:52	
Carbon Disulfide	0.24 J	10	0.22	1	03/14/18 04:52	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 04:52	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 04:52	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 04:52	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 04:52	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 04:52	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 04:52	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 04:52	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 04:52	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 04:52	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 04:52	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 04:52	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 04:52	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 04:52	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:55  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-04  
**Lab Code:** R1802137-004

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 04:52	
Toluene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 04:52	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 04:52	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 04:52	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 04:52	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 04:52	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 04:52	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 04:52	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 04:52	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 04:52	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 04:52	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 04:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/14/18 04:52	
Dibromofluoromethane	92	89 - 119	03/14/18 04:52	
Toluene-d8	97	87 - 121	03/14/18 04:52	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 16:00  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-05  
**Lab Code:** R1802137-005

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 05:15	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 05:15	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 05:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 05:15	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 05:15	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 05:15	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 05:15	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 05:15	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 05:15	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 05:15	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 05:15	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,4-Dioxane	20 U	100	20	1	03/14/18 05:15	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 05:15	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 05:15	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 05:15	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 05:15	
Acetone	2.0 J	10	1.3	1	03/14/18 05:15	
Benzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 05:15	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 05:15	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 05:15	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 05:15	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 05:15	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 05:15	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 05:15	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 05:15	
Chloroform	1.6 J	5.0	0.25	1	03/14/18 05:15	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 05:15	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 05:15	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 05:15	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 05:15	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 05:15	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 05:15	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 05:15	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 05:15	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 05:15	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 16:00  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-05  
**Lab Code:** R1802137-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 05:15	
Toluene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 05:15	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 05:15	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 05:15	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 05:15	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 05:15	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 05:15	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 05:15	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 05:15	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 05:15	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 05:15	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 05:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/14/18 05:15	
Dibromofluoromethane	95	89 - 119	03/14/18 05:15	
Toluene-d8	97	87 - 121	03/14/18 05:15	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-06  
**Lab Code:** R1802137-006

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 05:37	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 05:37	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 05:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 05:37	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 05:37	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 05:37	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 05:37	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 05:37	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 05:37	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 05:37	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 05:37	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,4-Dioxane	20 U	100	20	1	03/14/18 05:37	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 05:37	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 05:37	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 05:37	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 05:37	
Acetone	1.7 J	10	1.3	1	03/14/18 05:37	
Benzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 05:37	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 05:37	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 05:37	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 05:37	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 05:37	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 05:37	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 05:37	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 05:37	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 05:37	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 05:37	
Cyclohexane	0.38 J	10	0.25	1	03/14/18 05:37	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 05:37	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 05:37	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 05:37	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 05:37	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 05:37	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 05:37	
Methylcyclohexane	0.43 J	10	0.27	1	03/14/18 05:37	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-06  
**Lab Code:** R1802137-006

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 05:37	
Toluene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 05:37	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 05:37	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 05:37	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 05:37	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 05:37	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 05:37	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 05:37	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 05:37	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 05:37	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 05:37	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 05:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/14/18 05:37	
Dibromofluoromethane	96	89 - 119	03/14/18 05:37	
Toluene-d8	100	87 - 121	03/14/18 05:37	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:10  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-07  
**Lab Code:** R1802137-007

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 05:59	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 05:59	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 05:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 05:59	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 05:59	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 05:59	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 05:59	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 05:59	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 05:59	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 05:59	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 05:59	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,4-Dioxane	20 U	100	20	1	03/14/18 05:59	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 05:59	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 05:59	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 05:59	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 05:59	
Acetone	<b>3.9 J</b>	10	1.3	1	03/14/18 05:59	
Benzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 05:59	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 05:59	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 05:59	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 05:59	
Carbon Disulfide	<b>0.46 J</b>	10	0.22	1	03/14/18 05:59	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 05:59	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 05:59	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 05:59	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 05:59	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 05:59	
Cyclohexane	<b>0.79 J</b>	10	0.25	1	03/14/18 05:59	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 05:59	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 05:59	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 05:59	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 05:59	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 05:59	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 05:59	
Methylcyclohexane	<b>0.27 J</b>	10	0.27	1	03/14/18 05:59	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:10  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-07  
**Lab Code:** R1802137-007

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 05:59	
Toluene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 05:59	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 05:59	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 05:59	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 05:59	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 05:59	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 05:59	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 05:59	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 05:59	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 05:59	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 05:59	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 05:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/18 05:59	
Dibromofluoromethane	94	89 - 119	03/14/18 05:59	
Toluene-d8	98	87 - 121	03/14/18 05:59	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 06:21	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 06:21	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 06:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 06:21	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 06:21	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 06:21	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 06:21	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 06:21	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 06:21	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 06:21	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 06:21	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,4-Dioxane	20 U	100	20	1	03/14/18 06:21	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 06:21	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 06:21	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 06:21	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 06:21	
Acetone	1.8 J	10	1.3	1	03/14/18 06:21	
Benzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 06:21	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 06:21	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 06:21	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 06:21	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 06:21	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 06:21	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 06:21	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 06:21	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 06:21	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 06:21	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 06:21	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 06:21	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 06:21	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 06:21	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 06:21	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 06:21	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 06:21	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 06:21	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 06:21	
Toluene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 06:21	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 06:21	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 06:21	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 06:21	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 06:21	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 06:21	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 06:21	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 06:21	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 06:21	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 06:21	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 06:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/18 06:21	
Dibromofluoromethane	95	89 - 119	03/14/18 06:21	
Toluene-d8	97	87 - 121	03/14/18 06:21	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18 10:11

**Sample Name:** TBLANK-1  
**Lab Code:** R1802137-009

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 03:23	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 03:23	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 03:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 03:23	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 03:23	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 03:23	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 03:23	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 03:23	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 03:23	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 03:23	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 03:23	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,4-Dioxane	20 U	100	20	1	03/14/18 03:23	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 03:23	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 03:23	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 03:23	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 03:23	
Acetone	1.3 U	10	1.3	1	03/14/18 03:23	
Benzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 03:23	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 03:23	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 03:23	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 03:23	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 03:23	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 03:23	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 03:23	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 03:23	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 03:23	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 03:23	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 03:23	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 03:23	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 03:23	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 03:23	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 03:23	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 03:23	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 03:23	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 03:23	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18 10:11

**Sample Name:** TBLANK-1  
**Lab Code:** R1802137-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 03:23	
Toluene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 03:23	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 03:23	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 03:23	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 03:23	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 03:23	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 03:23	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 03:23	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 03:23	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 03:23	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 03:23	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 03:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/18 03:23	
Dibromofluoromethane	95	89 - 119	03/14/18 03:23	
Toluene-d8	99	87 - 121	03/14/18 03:23	



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2.5 U	9.4	2.5	1	03/14/18 11:13	3/13/18	
2,3,4,6-Tetrachlorophenol	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
2,4,5-Trichlorophenol	3.1 U	9.4	3.1	1	03/14/18 11:13	3/13/18	
2,4,6-Trichlorophenol	1.5 U	9.4	1.5	1	03/14/18 11:13	3/13/18	
2,4-Dichlorophenol	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
2,4-Dimethylphenol	1.2 U	9.4	1.2	1	03/14/18 11:13	3/13/18	
2,4-Dinitrophenol	2.7 U	47	2.7	1	03/14/18 11:13	3/13/18	
2,4-Dinitrotoluene	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
2,6-Dinitrotoluene	1.1 U	9.4	1.1	1	03/14/18 11:13	3/13/18	
2-Chloronaphthalene	2.7 U	9.4	2.7	1	03/14/18 11:13	3/13/18	
2-Chlorophenol	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
2-Methylnaphthalene	2.5 U	9.4	2.5	1	03/14/18 11:13	3/13/18	
2-Methylphenol	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
2-Nitroaniline	2.1 U	47	2.1	1	03/14/18 11:13	3/13/18	
2-Nitrophenol	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
3,3'-Dichlorobenzidine	1.1 U	9.4	1.1	1	03/14/18 11:13	3/13/18	
3- and 4-Methylphenol Coelution	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
3-Nitroaniline	1.0 U	47	1.0	1	03/14/18 11:13	3/13/18	
4,6-Dinitro-2-methylphenol	1.6 U	47	1.6	1	03/14/18 11:13	3/13/18	
4-Bromophenyl Phenyl Ether	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
4-Chloro-3-methylphenol	2.0 U	9.4	2.0	1	03/14/18 11:13	3/13/18	
4-Chloroaniline	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
4-Chlorophenyl Phenyl Ether	2.3 U	9.4	2.3	1	03/14/18 11:13	3/13/18	
4-Nitroaniline	1.5 U	47	1.5	1	03/14/18 11:13	3/13/18	
4-Nitrophenol	1.1 U	47	1.1	1	03/14/18 11:13	3/13/18	
Acenaphthene	4.2 J	9.4	1.6	1	03/14/18 11:13	3/13/18	
Acenaphthylene	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
Acetophenone	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
Anthracene	1.5 J	9.4	1.1	1	03/14/18 11:13	3/13/18	
Atrazine	2.1 U	9.4	2.1	1	03/14/18 11:13	3/13/18	
Benz(a)anthracene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzaldehyde	2.9 U	47	2.9	1	03/14/18 11:13	3/13/18	
Benzo(a)pyrene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzo(b)fluoranthene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzo(g,h,i)perylene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzo(k)fluoranthene	1.1 U	9.4	1.1	1	03/14/18 11:13	3/13/18	
Biphenyl	2.5 U	9.4	2.5	1	03/14/18 11:13	3/13/18	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Bis(2-chloroethoxy)methane	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Bis(2-chloroethyl) Ether	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Bis(2-ethylhexyl) Phthalate	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Butyl Benzyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Caprolactam	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	4.2 J	9.4	1.2	1	03/14/18 11:13	3/13/18	
Chrysene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Di-n-butyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Di-n-octyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Dibenz(a,h)anthracene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Dibenzofuran	2.8 J	9.4	1.7	1	03/14/18 11:13	3/13/18	
Diethyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Dimethyl Phthalate	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
Fluoranthene	1.5 U	9.4	1.5	1	03/14/18 11:13	3/13/18	
Fluorene	3.3 J	9.4	1.3	1	03/14/18 11:13	3/13/18	
Hexachlorobenzene	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Hexachlorobutadiene	2.4 U	9.4	2.4	1	03/14/18 11:13	3/13/18	
Hexachlorocyclopentadiene	2.3 U	9.4	2.3	1	03/14/18 11:13	3/13/18	
Hexachloroethane	2.7 U	9.4	2.7	1	03/14/18 11:13	3/13/18	
Indeno(1,2,3-cd)pyrene	1.2 U	9.4	1.2	1	03/14/18 11:13	3/13/18	
Isophorone	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
N-Nitrosodi-n-propylamine	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
N-Nitrosodiphenylamine	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Naphthalene	10	9.4	2.2	1	03/14/18 11:13	3/13/18	
Nitrobenzene	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Pentachlorophenol (PCP)	1.9 U	47	1.9	1	03/14/18 11:13	3/13/18	
Phenanthrene	7.0 J	9.4	1.0	1	03/14/18 11:13	3/13/18	
Phenol	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
Pyrene	1.2 J	9.4	1.0	1	03/14/18 11:13	3/13/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	35 - 141	03/14/18 11:13	
2-Fluorobiphenyl	89	31 - 118	03/14/18 11:13	
2-Fluorophenol	48	10 - 105	03/14/18 11:13	
Nitrobenzene-d5	90	31 - 110	03/14/18 11:13	
Phenol-d6	33	10 - 107	03/14/18 11:13	
Terphenyl-d14	99	30 - 133	03/14/18 11:13	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2.5 U	9.4	2.5	1	03/14/18 12:38	3/13/18	
2,3,4,6-Tetrachlorophenol	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
2,4,5-Trichlorophenol	3.1 U	9.4	3.1	1	03/14/18 12:38	3/13/18	
2,4,6-Trichlorophenol	1.5 U	9.4	1.5	1	03/14/18 12:38	3/13/18	
2,4-Dichlorophenol	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
2,4-Dimethylphenol	1.2 U	9.4	1.2	1	03/14/18 12:38	3/13/18	
2,4-Dinitrophenol	2.7 U	47	2.7	1	03/14/18 12:38	3/13/18	
2,4-Dinitrotoluene	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
2,6-Dinitrotoluene	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
2-Chloronaphthalene	2.7 U	9.4	2.7	1	03/14/18 12:38	3/13/18	
2-Chlorophenol	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
2-Methylnaphthalene	2.5 U	9.4	2.5	1	03/14/18 12:38	3/13/18	
2-Methylphenol	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
2-Nitroaniline	2.1 U	47	2.1	1	03/14/18 12:38	3/13/18	
2-Nitrophenol	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
3,3'-Dichlorobenzidine	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
3- and 4-Methylphenol Coelution	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
3-Nitroaniline	1.0 U	47	1.0	1	03/14/18 12:38	3/13/18	
4,6-Dinitro-2-methylphenol	1.6 U	47	1.6	1	03/14/18 12:38	3/13/18	
4-Bromophenyl Phenyl Ether	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
4-Chloro-3-methylphenol	2.0 U	9.4	2.0	1	03/14/18 12:38	3/13/18	
4-Chloroaniline	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
4-Chlorophenyl Phenyl Ether	2.3 U	9.4	2.3	1	03/14/18 12:38	3/13/18	
4-Nitroaniline	1.5 U	47	1.5	1	03/14/18 12:38	3/13/18	
4-Nitrophenol	1.1 U	47	1.1	1	03/14/18 12:38	3/13/18	
Acenaphthene	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Acenaphthylene	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Acetophenone	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Anthracene	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
Atrazine	2.1 U	9.4	2.1	1	03/14/18 12:38	3/13/18	
Benz(a)anthracene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzaldehyde	2.9 U	47	2.9	1	03/14/18 12:38	3/13/18	
Benzo(a)pyrene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzo(b)fluoranthene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzo(g,h,i)perylene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzo(k)fluoranthene	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
Biphenyl	2.5 U	9.4	2.5	1	03/14/18 12:38	3/13/18	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Bis(2-chloroethoxy)methane	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Bis(2-chloroethyl) Ether	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Bis(2-ethylhexyl) Phthalate	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Butyl Benzyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Caprolactam	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.2 U	9.4	1.2	1	03/14/18 12:38	3/13/18	
Chrysene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Di-n-butyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Di-n-octyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Dibenz(a,h)anthracene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Dibenzofuran	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
Diethyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Dimethyl Phthalate	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
Fluoranthene	1.5 U	9.4	1.5	1	03/14/18 12:38	3/13/18	
Fluorene	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Hexachlorobenzene	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Hexachlorobutadiene	2.4 U	9.4	2.4	1	03/14/18 12:38	3/13/18	
Hexachlorocyclopentadiene	2.3 U	9.4	2.3	1	03/14/18 12:38	3/13/18	
Hexachloroethane	2.7 U	9.4	2.7	1	03/14/18 12:38	3/13/18	
Indeno(1,2,3-cd)pyrene	1.2 U	9.4	1.2	1	03/14/18 12:38	3/13/18	
Isophorone	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
N-Nitrosodi-n-propylamine	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
N-Nitrosodiphenylamine	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Naphthalene	2.2 U	9.4	2.2	1	03/14/18 12:38	3/13/18	
Nitrobenzene	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Pentachlorophenol (PCP)	1.9 U	47	1.9	1	03/14/18 12:38	3/13/18	
Phenanthrene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Phenol	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Pyrene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	35 - 141	03/14/18 12:38	
2-Fluorobiphenyl	84	31 - 118	03/14/18 12:38	
2-Fluorophenol	44	10 - 105	03/14/18 12:38	
Nitrobenzene-d5	85	31 - 110	03/14/18 12:38	
Phenol-d6	30	10 - 107	03/14/18 12:38	
Terphenyl-d14	104	30 - 133	03/14/18 12:38	



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

MW-02

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Lab Sample ID: R1802137-002

Level (low/med): LOW Date Received: 3/12/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P
7440-39-3	Barium	138			P
7440-43-9	Cadmium	0.900	U		P
7439-97-6	Mercury	0.090	U		CV
7440-47-3	Chromium	2.7	U		P
7439-92-1	Lead	3.6	U		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	1.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**METALS**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

MW-08

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Lab Sample ID: R1802137-008

Level (low/med): LOW Date Received: 3/12/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P
7440-39-3	Barium	77.6			P
7440-43-9	Cadmium	0.900	U		P
7439-97-6	Mercury	0.090	U		CV
7440-47-3	Chromium	2.7	U		P
7439-92-1	Lead	3.6	U		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	1.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Extraction Method:** EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
MW-01	R1802137-001	95	96	98
MW-02	R1802137-002	98	97	100
MW-03	R1802137-003	93	92	95
MW-04	R1802137-004	94	92	97
MW-05	R1802137-005	95	95	97
MW-06	R1802137-006	98	96	100
MW-07	R1802137-007	97	94	98
MW-08	R1802137-008	97	95	97
TBLANK-1	R1802137-009	97	95	99
Lab Control Sample	RQ1802365-03	97	97	96
Method Blank	RQ1802365-04	95	95	98
MW-02 MS	RQ1802365-05	99	100	100
MW-02 DMS	RQ1802365-06	98	99	98

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18  
**Date Analyzed:** 03/14/18  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-02  
**Lab Code:** R1802137-002  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Matrix Spike RQ1802365-05				Duplicate Matrix Spike RQ1802365-06				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
1,1,1-Trichloroethane (TCA)	0.36 U	52.6	50.0	105	54.6	50.0	109	74-127	4	30	
1,1,2,2-Tetrachloroethane	0.25 U	49.3	50.0	99	47.9	50.0	96	72-122	3	30	
1,1,2-Trichloroethane	0.34 U	50.7	50.0	101	50.4	50.0	101	79-119	<1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	51.1	50.0	102	50.9	50.0	102	59-131	<1	30	
1,1-Dichloroethane (1,1-DCA)	0.20 U	56.9	50.0	114	58.2	50.0	116	74-132	2	30	
1,1-Dichloroethene (1,1-DCE)	0.57 U	54.2	50.0	108	55.1	50.0	110	74-139	2	30	
1,2,3-Trichlorobenzene	0.82 U	45.5	50.0	91	44.5	50.0	89	54-143	2	30	
1,2,4-Trichlorobenzene	0.23 U	45.3	50.0	91	44.6	50.0	89	56-140	2	30	
1,2,4-Trimethylbenzene	0.20 U	51.5	50.0	103	50.6	50.0	101	47-153	2	30	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	36.0	50.0	72	36.3	50.0	73	65-137	<1	30	
1,2-Dibromoethane	0.24 U	49.6	50.0	99	49.8	50.0	100	80-117	<1	30	
1,2-Dichlorobenzene	0.21 U	48.6	50.0	97	48.1	50.0	96	77-120	1	30	
1,2-Dichloroethane	0.36 U	58.1	50.0	116	58.0	50.0	116	68-130	<1	30	
1,2-Dichloropropane	0.20 U	53.6	50.0	107	53.6	50.0	107	79-124	<1	30	
1,3,5-Trimethylbenzene	0.20 U	52.0	50.0	104	50.8	50.0	102	49-149	2	30	
1,3-Dichlorobenzene	0.20 U	49.2	50.0	98	47.9	50.0	96	74-125	3	30	
1,4-Dichlorobenzene	0.20 U	47.7	50.0	95	47.1	50.0	94	72-124	1	30	
1,4-Dioxane	20 U	851	1000	85	824	1000	82	48-143	3	30	
2-Butanone (MEK)	0.81 U	46.9	50.0	94	46.6	50.0	93	46-141	<1	30	
2-Hexanone	1.7 U	46.3	50.0	93	46.1	50.0	92	56-132	<1	30	
4-Isopropyltoluene	0.20 U	49.6	50.0	99	47.8	50.0	96	64-144	4	30	
4-Methyl-2-pentanone	0.67 U	49.9	50.0	100	49.7	50.0	99	60-141	<1	30	
Acetone	1.3 U	45.3	50.0	91	45.3	50.0	91	29-151	<1	30	
Benzene	0.20 U	54.0	50.0	108	53.9	50.0	108	76-129	<1	30	
Bromochloromethane	0.32 U	53.3	50.0	107	53.7	50.0	107	82-125	<1	30	
Bromodichloromethane	0.32 U	51.7	50.0	103	52.6	50.0	105	76-127	2	30	
Bromoform	0.42 U	41.6	50.0	83	42.5	50.0	85	58-133	2	30	
Bromomethane	0.29 U	51.8	50.0	104	56.9	50.0	114	10-162	9	30	
Carbon Disulfide	0.22 U	48.3	50.0	97	51.2	50.0	102	34-162	6	30	
Carbon Tetrachloride	0.45 U	50.2	50.0	100	50.7	50.0	101	65-135	<1	30	
Chlorobenzene	0.29 U	48.9	50.0	98	49.1	50.0	98	76-125	<1	30	
Chloroethane	0.24 U	50.2	50.0	100	51.0	50.0	102	70-140	2	30	
Chloroform	0.25 U	55.6	50.0	111	56.7	50.0	113	75-130	2	30	
Chloromethane	0.21 U	45.5	50.0	91	46.1	50.0	92	55-160	1	30	
Cyclohexane	0.25 U	53.7	50.0	107	50.6	50.0	101	52-145	6	30	

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18  
**Date Analyzed:** 03/14/18  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-02  
**Lab Code:** R1802137-002  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ1802365-05			Duplicate Matrix Spike RQ1802365-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Dibromochloromethane	0.31 U	46.5	50.0	93	47.6	50.0	95	72-128	2	30
Dichlorodifluoromethane (CFC 12)	0.46 U	52.0	50.0	104	53.0	50.0	106	49-154	2	30
Dichloromethane	0.60 U	53.2	50.0	106	53.9	50.0	108	75-121	1	30
Ethylbenzene	0.20 U	52.5	50.0	105	50.7	50.0	101	72-134	3	30
Isopropylbenzene (Cumene)	0.20 U	50.6	50.0	101	50.2	50.0	100	76-136	<1	30
Methyl Acetate	0.43 U	38.7	50.0	77	37.4	50.0	75	36-146	4	30
Methyl tert-Butyl Ether	0.29 U	50.8	50.0	102	52.1	50.0	104	74-130	3	30
Methylcyclohexane	0.27 U	47.4	50.0	95	46.0	50.0	92	45-146	3	30
Styrene	0.20 U	50.6	50.0	101	50.6	50.0	101	34-156	<1	30
Tetrachloroethene (PCE)	0.30 U	49.7	50.0	99	49.2	50.0	98	67-137	1	30
Toluene	0.20 U	52.9	50.0	106	52.7	50.0	105	79-125	<1	30
Trichloroethene (TCE)	0.22 U	51.5	50.0	103	51.5	50.0	103	62-142	<1	30
Trichlorofluoromethane (CFC 11)	0.20 U	59.9	50.0	120	59.9	50.0	120	72-142	<1	30
Vinyl Chloride	0.32 U	53.8	50.0	108	55.1	50.0	110	60-157	2	30
cis-1,2-Dichloroethene	0.30 U	51.6	50.0	103	52.2	50.0	104	72-133	1	30
cis-1,3-Dichloropropene	0.24 U	47.6	50.0	95	47.9	50.0	96	52-134	<1	30
m,p-Xylenes	0.33 U	101	100	101	101	100	101	68-138	<1	30
n-Butylbenzene	0.21 U	49.5	50.0	99	48.5	50.0	97	61-152	2	30
n-Propylbenzene	0.20 U	52.3	50.0	105	51.1	50.0	102	71-140	2	30
o-Xylene	0.20 U	51.3	50.0	103	50.8	50.0	102	68-134	<1	30
sec-Butylbenzene	0.27 U	50.3	50.0	101	49.0	50.0	98	64-147	3	30
tert-Butylbenzene	0.20 U	49.7	50.0	99	48.7	50.0	97	63-143	2	30
trans-1,2-Dichloroethene	0.33 U	54.4	50.0	109	54.8	50.0	110	77-125	<1	30
trans-1,3-Dichloropropene	0.20 U	44.6	50.0	89	45.4	50.0	91	50-142	2	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/13/18 22:57  
**Date Extracted:**

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1802365-04  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\031318\C5475.D\  
**Analysis Lot:** 583391

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1802365-03	I:\ACQUADATA\MSVOA14\Data\031318\C5473.D\ \C5473.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/13/18 22:12
TBLANK-1	R1802137-009	I:\ACQUADATA\MSVOA14\Data\031318\C5487.D\ \C5487.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 03:23
MW-01	R1802137-001	I:\ACQUADATA\MSVOA14\Data\031318\C5488.D\ \C5488.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 03:46
MW-02	R1802137-002	I:\ACQUADATA\MSVOA14\Data\031318\C5489.D\ \C5489.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 04:08
MW-03	R1802137-003	I:\ACQUADATA\MSVOA14\Data\031318\C5490.D\ \C5490.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 04:30
MW-04	R1802137-004	I:\ACQUADATA\MSVOA14\Data\031318\C5491.D\ \C5491.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 04:52
MW-05	R1802137-005	I:\ACQUADATA\MSVOA14\Data\031318\C5492.D\ \C5492.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 05:15
MW-06	R1802137-006	I:\ACQUADATA\MSVOA14\Data\031318\C5493.D\ \C5493.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 05:37
MW-07	R1802137-007	I:\ACQUADATA\MSVOA14\Data\031318\C5494.D\ \C5494.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 05:59
MW-08	R1802137-008	I:\ACQUADATA\MSVOA14\Data\031318\C5495.D\ \C5495.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 06:21
MW-02	RQ1802365-05	I:\ACQUADATA\MSVOA14\Data\031318\C5496.D\ \C5496.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 06:44
MW-02	RQ1802365-06	I:\ACQUADATA\MSVOA14\Data\031318\C5497.D\ \C5497.D\ I:\ACQUADATA\MSVOA14\Data\031318	03/14/18 07:06

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1802365-04

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/13/18 22:57	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/13/18 22:57	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/13/18 22:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/13/18 22:57	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/13/18 22:57	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/13/18 22:57	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/13/18 22:57	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/13/18 22:57	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/13/18 22:57	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/13/18 22:57	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/13/18 22:57	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/13/18 22:57	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/13/18 22:57	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
1,4-Dioxane	20 U	100	20	1	03/13/18 22:57	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/13/18 22:57	
2-Hexanone	1.7 U	10	1.7	1	03/13/18 22:57	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/13/18 22:57	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/13/18 22:57	
Acetone	1.3 U	10	1.3	1	03/13/18 22:57	
Benzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
Bromochloromethane	0.32 U	5.0	0.32	1	03/13/18 22:57	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/13/18 22:57	
Bromoform	0.42 U	5.0	0.42	1	03/13/18 22:57	
Bromomethane	0.29 U	5.0	0.29	1	03/13/18 22:57	
Carbon Disulfide	0.22 U	10	0.22	1	03/13/18 22:57	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/13/18 22:57	
Chlorobenzene	0.29 U	5.0	0.29	1	03/13/18 22:57	
Chloroethane	0.24 U	5.0	0.24	1	03/13/18 22:57	
Chloroform	0.25 U	5.0	0.25	1	03/13/18 22:57	
Chloromethane	0.21 U	5.0	0.21	1	03/13/18 22:57	
Cyclohexane	0.25 U	10	0.25	1	03/13/18 22:57	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/13/18 22:57	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/13/18 22:57	
Dichloromethane	0.60 U	5.0	0.60	1	03/13/18 22:57	
Ethylbenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/13/18 22:57	
Methyl Acetate	0.43 U	10	0.43	1	03/13/18 22:57	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/13/18 22:57	
Methylcyclohexane	0.27 U	10	0.27	1	03/13/18 22:57	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1802365-04

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/13/18 22:57	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/13/18 22:57	
Toluene	0.20 U	5.0	0.20	1	03/13/18 22:57	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/13/18 22:57	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/13/18 22:57	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/13/18 22:57	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/13/18 22:57	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/13/18 22:57	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/13/18 22:57	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/13/18 22:57	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
o-Xylene	0.20 U	5.0	0.20	1	03/13/18 22:57	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/13/18 22:57	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/13/18 22:57	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/13/18 22:57	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/13/18 22:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/13/18 22:57	
Dibromofluoromethane	95	89 - 119	03/13/18 22:57	
Toluene-d8	98	87 - 121	03/13/18 22:57	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/13/18 22:12  
**Date Extracted:**

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample  
**Lab Code:** RQ1802365-03  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Instrument ID:** R-MS-14  
**File ID:** I:\ACQUADATA\MSVOA14\Data\031318\C5473.D\  
**Analysis Lot:** 583391

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1802365-04	I:\ACQUADATA\MSVOA14\Data\031318\C5475.D\ \C5475.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5487.D\ \C5487.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5488.D\ \C5488.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5489.D\ \C5489.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5490.D\ \C5490.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5491.D\ \C5491.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5492.D\ \C5492.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5493.D\ \C5493.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5494.D\ \C5494.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5495.D\ \C5495.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5496.D\ \C5496.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5497.D\ \C5497.D\ I:\ACQUADATA\MSVOA14\Data\031318\C5498.D\ \C5498.D	03/13/18 22:57
TBLANK-1	R1802137-009	I:\ACQUADATA\MSVOA14\Data\031318\C5487.D\ \C5487.D	03/14/18 03:23
MW-01	R1802137-001	I:\ACQUADATA\MSVOA14\Data\031318\C5488.D\ \C5488.D	03/14/18 03:46
MW-02	R1802137-002	I:\ACQUADATA\MSVOA14\Data\031318\C5489.D\ \C5489.D	03/14/18 04:08
MW-03	R1802137-003	I:\ACQUADATA\MSVOA14\Data\031318\C5490.D\ \C5490.D	03/14/18 04:30
MW-04	R1802137-004	I:\ACQUADATA\MSVOA14\Data\031318\C5491.D\ \C5491.D	03/14/18 04:52
MW-05	R1802137-005	I:\ACQUADATA\MSVOA14\Data\031318\C5492.D\ \C5492.D	03/14/18 05:15
MW-06	R1802137-006	I:\ACQUADATA\MSVOA14\Data\031318\C5493.D\ \C5493.D	03/14/18 05:37
MW-07	R1802137-007	I:\ACQUADATA\MSVOA14\Data\031318\C5494.D\ \C5494.D	03/14/18 05:59
MW-08	R1802137-008	I:\ACQUADATA\MSVOA14\Data\031318\C5495.D\ \C5495.D	03/14/18 06:21
MW-02	RQ1802365-05	I:\ACQUADATA\MSVOA14\Data\031318\C5496.D\ \C5496.D	03/14/18 06:44
MW-02	RQ1802365-06	I:\ACQUADATA\MSVOA14\Data\031318\C5497.D\ \C5497.D	03/14/18 07:06

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/13/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1802365-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	20.7	20.0	103	74-120
1,1,2,2-Tetrachloroethane	8260C	18.3	20.0	91	78-122
1,1,2-Trichloroethane	8260C	21.1	20.0	105	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.8	20.0	104	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	22.6	20.0	113	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	21.1	20.0	105	74-135
1,2,3-Trichlorobenzene	8260C	18.9	20.0	95	56-164
1,2,4-Trichlorobenzene	8260C	19.5	20.0	97	68-147
1,2,4-Trimethylbenzene	8260C	20.3	20.0	102	81-123
1,2-Dibromo-3-chloropropane (DBCP)	8260C	14.1	20.0	71	55-149
1,2-Dibromoethane	8260C	21.4	20.0	107	81-125
1,2-Dichlorobenzene	8260C	19.8	20.0	99	80-119
1,2-Dichloroethane	8260C	23.9	20.0	120	71-127
1,2-Dichloropropane	8260C	21.8	20.0	109	80-119
1,3,5-Trimethylbenzene	8260C	20.2	20.0	101	79-123
1,3-Dichlorobenzene	8260C	19.9	20.0	100	79-121
1,4-Dichlorobenzene	8260C	19.4	20.0	97	79-119
1,4-Dioxane	8260C	365	400	91	69-151
2-Butanone (MEK)	8260C	21.4	20.0	107	61-137
2-Hexanone	8260C	20.2	20.0	101	63-124
4-Isopropyltoluene	8260C	19.6	20.0	98	77-131
4-Methyl-2-pentanone	8260C	21.0	20.0	105	66-124
Acetone	8260C	21.9	20.0	109	40-161
Benzene	8260C	21.2	20.0	106	76-118
Bromochloromethane	8260C	22.1	20.0	110	81-126
Bromodichloromethane	8260C	20.4	20.0	102	78-126
Bromoform	8260C	16.5	20.0	83	71-136
Bromomethane	8260C	23.4	20.0	117	42-166
Carbon Disulfide	8260C	18.1	20.0	91	65-127
Carbon Tetrachloride	8260C	18.6	20.0	93	68-125
Chlorobenzene	8260C	19.9	20.0	99	80-121
Chloroethane	8260C	19.6	20.0	98	70-127
Chloroform	8260C	22.3	20.0	112	76-120

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/13/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1802365-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	18.3	20.0	91	69-145
Cyclohexane	8260C	22.5	20.0	112	63-121
Dibromochloromethane	8260C	18.3	20.0	92	77-128
Dichlorodifluoromethane (CFC 12)	8260C	22.0	20.0	110	65-152
Dichloromethane	8260C	21.9	20.0	110	73-122
Ethylbenzene	8260C	19.9	20.0	100	76-120
Isopropylbenzene (Cumene)	8260C	19.3	20.0	97	78-126
Methyl Acetate	8260C	19.6	20.0	98	62-131
Methyl tert-Butyl Ether	8260C	22.1	20.0	110	78-125
Methylcyclohexane	8260C	20.9	20.0	105	51-129
Styrene	8260C	20.1	20.0	101	80-124
Tetrachloroethene (PCE)	8260C	19.1	20.0	95	78-124
Toluene	8260C	20.4	20.0	102	77-120
Trichloroethene (TCE)	8260C	21.8	20.0	109	78-123
Trichlorofluoromethane (CFC 11)	8260C	24.3	20.0	121	68-126
Vinyl Chloride	8260C	21.5	20.0	107	69-133
cis-1,2-Dichloroethene	8260C	20.7	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	19.9	20.0	100	74-126
m,p-Xylenes	8260C	39.5	40.0	99	78-123
n-Butylbenzene	8260C	19.8	20.0	99	77-132
n-Propylbenzene	8260C	20.2	20.0	101	80-127
o-Xylene	8260C	20.1	20.0	100	80-120
sec-Butylbenzene	8260C	19.7	20.0	99	76-128
tert-Butylbenzene	8260C	19.4	20.0	97	76-126
trans-1,2-Dichloroethene	8260C	21.5	20.0	108	80-120
trans-1,3-Dichloropropene	8260C	18.8	20.0	94	67-135

**ALS Group USA, Corp.**  
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QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137  
**Date Analyzed:**03/13/18 21:27

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\031318\C5471.D\  
**Instrument ID:** R-MS-14

**Analytical Method:** 8260C  
**Analysis Lot:** 583391

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	21.47	27340	Pass
75	95	30	60	52.80	67219	Pass
95	95	100	100	100.00	127315	Pass
96	95	5	9	6.57	8367	Pass
173	174	0	2	0.41	464	Pass
174	95	50	120	88.09	112147	Pass
175	174	5	9	7.72	8656	Pass
176	174	95	101	95.60	107211	Pass
177	176	5	9	6.75	7235	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1802365-02	I:\ACQUADATA\MSVOA14\Data\031318\C5472.D\	03/13/18 21:50	
Lab Control Sample	RQ1802365-03	I:\ACQUADATA\MSVOA14\Data\031318\C5473.D\	03/13/18 22:12	
Method Blank	RQ1802365-04	I:\ACQUADATA\MSVOA14\Data\031318\C5475.D\	03/13/18 22:57	
TBLANK-1	R1802137-009	I:\ACQUADATA\MSVOA14\Data\031318\C5487.D\	03/14/18 03:23	
MW-01	R1802137-001	I:\ACQUADATA\MSVOA14\Data\031318\C5488.D\	03/14/18 03:46	
MW-02	R1802137-002	I:\ACQUADATA\MSVOA14\Data\031318\C5489.D\	03/14/18 04:08	
MW-03	R1802137-003	I:\ACQUADATA\MSVOA14\Data\031318\C5490.D\	03/14/18 04:30	
MW-04	R1802137-004	I:\ACQUADATA\MSVOA14\Data\031318\C5491.D\	03/14/18 04:52	
MW-05	R1802137-005	I:\ACQUADATA\MSVOA14\Data\031318\C5492.D\	03/14/18 05:15	
MW-06	R1802137-006	I:\ACQUADATA\MSVOA14\Data\031318\C5493.D\	03/14/18 05:37	
MW-07	R1802137-007	I:\ACQUADATA\MSVOA14\Data\031318\C5494.D\	03/14/18 05:59	
MW-08	R1802137-008	I:\ACQUADATA\MSVOA14\Data\031318\C5495.D\	03/14/18 06:21	
MW-02	RQ1802365-05	I:\ACQUADATA\MSVOA14\Data\031318\C5496.D\	03/14/18 06:44	
MW-02	RQ1802365-06	I:\ACQUADATA\MSVOA14\Data\031318\C5497.D\	03/14/18 07:06	



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137  
**Date Analyzed:**03/13/18 21:50

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\031318\C5472.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1802365-02  
**Analysis Lot:**583391  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	203,549	11.74	405,810	5.94	367,883	9.58
<b>Upper Limit ==&gt;</b>	407,098	12.24	811,620	6.44	735,766	10.08
<b>Lower Limit ==&gt;</b>	101,775	11.24	202,905	5.44	183,942	9.08

**Associated Analyses**

Sample Name	Lab Code	Area	RT	Area	RT	Area	RT
Lab Control Sample	RQ1802365-03	200015	11.74	409029	5.94	364573	9.58
Method Blank	RQ1802365-04	192058	11.74	405156	5.94	359591	9.58
TBLANK-1	R1802137-009	190891	11.74	395601	5.94	353951	9.58
MW-01	R1802137-001	187178	11.74	394349	5.94	350568	9.58
MW-02	R1802137-002	183500	11.74	383602	5.94	340866	9.58
MW-03	R1802137-003	190180	11.74	396339	5.94	352107	9.58
MW-04	R1802137-004	187502	11.74	388005	5.94	346263	9.58
MW-05	R1802137-005	187041	11.74	388816	5.94	341807	9.58
MW-06	R1802137-006	187958	11.74	389274	5.94	348580	9.58
MW-07	R1802137-007	190037	11.74	393983	5.94	350060	9.58
MW-08	R1802137-008	187545	11.74	389039	5.94	348036	9.58
MW-02	RQ1802365-05	194407	11.74	390684	5.94	352568	9.58
MW-02	RQ1802365-06	201363	11.74	401476	5.94	360472	9.58

**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137  
**Date Analyzed:**03/13/18 21:50

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\MSVOA14\Data\031318\C5472.D\  
**Instrument ID:** R-MS-14  
**Analysis Method:** 8260C

**Lab Code:**RQ1802365-02  
**Analysis Lot:**583391  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	276,179	4.69
<b>Upper Limit ==&gt;</b>	552,358	5.19
<b>Lower Limit ==&gt;</b>	138,090	4.19

*Associated Analyses*

Sample Name	ID	Area	RT
Lab Control Sample	RQ1802365-03	273639	4.69
Method Blank	RQ1802365-04	274840	4.69
TBLANK-1	R1802137-009	267283	4.69
MW-01	R1802137-001	266520	4.69
MW-02	R1802137-002	257914	4.69
MW-03	R1802137-003	268412	4.69
MW-04	R1802137-004	263894	4.69
MW-05	R1802137-005	264236	4.69
MW-06	R1802137-006	264868	4.69
MW-07	R1802137-007	266039	4.69
MW-08	R1802137-008	264468	4.69
MW-02	RQ1802365-05	266808	4.69
MW-02	RQ1802365-06	269448	4.69



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35 - 141	31 - 118	10 - 105
MW-02	R1802137-002	106	89	48
MW-08	R1802137-008	106	84	44
Method Blank	RQ1802190-01	102	46	38
Lab Control Sample	RQ1802190-02	103	88	56
Duplicate Lab Control Sample	RQ1802190-03	94	78	55
MW-02 MS	RQ1802190-04	98	91	54
MW-02 DMS	RQ1802190-05	104	95	50

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		31 - 110	10 - 107	30 - 133
MW-02	R1802137-002	90	33	99
MW-08	R1802137-008	85	30	104
Method Blank	RQ1802190-01	65	27	111
Lab Control Sample	RQ1802190-02	89	40	105
Duplicate Lab Control Sample	RQ1802190-03	82	38	96
MW-02 MS	RQ1802190-04	91	38	105
MW-02 DMS	RQ1802190-05	92	36	106

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18  
**Date Analyzed:** 03/14/18  
**Date Extracted:** 03/13/18

**Duplicate Matrix Spike Summary**  
**Semivolatle Organic Compounds by GC/MS**

**Sample Name:** MW-02  
**Lab Code:** R1802137-002  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Matrix Spike RQ1802190-04				Duplicate Matrix Spike RQ1802190-05				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
1,2,4,5-Tetrachlorobenzene	2.5 U	79.1	96.7	82	81.0	96.7	84	47-96	2	30	
2,3,4,6-Tetrachlorophenol	1.7 U	89.5	94.3	95	97.6	94.3	103	55-138	8	30	
2,4,5-Trichlorophenol	3.1 U	94.1	94.3	100	96.5	94.3	102	59-119	2	30	
2,4,6-Trichlorophenol	1.5 U	92.5	94.3	98	96.9	94.3	103	59-116	5	30	
2,4-Dichlorophenol	1.3 U	91.5	94.3	97	94.9	94.3	101	53-112	4	30	
2,4-Dimethylphenol	1.2 U	89.8	94.3	95	94.2	94.3	100	37-119	5	30	
2,4-Dinitrophenol	2.7 U	86.4	94.3	92	91.4	94.3	97	21-168	5	30	
2,4-Dinitrotoluene	1.4 U	86.7	94.3	92	92.6	94.3	98	58-142	6	30	
2,6-Dinitrotoluene	1.1 U	84.4	94.3	89	90.7	94.3	96	52-148	8	30	
2-Chloronaphthalene	2.7 U	83.4	94.3	88	86.2	94.3	91	57-103	3	30	
2-Chlorophenol	1.4 U	80.5	94.3	85	76.2	94.3	81	37-112	5	30	
2-Methylnaphthalene	2.5 U	85.3	94.3	90	89.4	94.3	95	45-109	5	30	
2-Methylphenol	1.7 U	78.5	94.3	83	72.9	94.3	77	49-103	8	30	
2-Nitroaniline	2.1 U	87.2	94.3	92	90.4	94.3	96	40-136	4	30	
2-Nitrophenol	1.3 U	88.3	94.3	94	89.0	94.3	94	51-121	<1	30	
3,3'-Dichlorobenzidine	1.1 U	86.3	94.3	91	85.3	94.3	90	10-139	1	30	
3- and 4-Methylphenol Coelution	1.7 U	72.2	94.3	76	69.8	94.3	74	48-96	3	30	
3-Nitroaniline	1.0 U	70.6	94.3	75	74.4	94.3	79	32-112	5	30	
4,6-Dinitro-2-methylphenol	1.6 U	88.7	94.3	94	90.3	94.3	96	52-142	2	30	
4-Bromophenyl Phenyl Ether	1.3 U	83.5	94.3	89	84.2	94.3	89	62-107	<1	30	
4-Chloro-3-methylphenol	2.0 U	92.8	94.3	98	98.4	94.3	104	22-136	6	30	
4-Chloroaniline	1.4 U	83.4	94.3	88	89.5	94.3	95	25-107	8	30	
4-Chlorophenyl Phenyl Ether	2.3 U	86.0	94.3	91	90.7	94.3	96	58-108	5	30	
4-Nitroaniline	1.5 U	80.5	94.3	85	85.0	94.3	90	23-154	6	30	
4-Nitrophenol	1.1 U	45.1 J	94.3	48	46.4 J	94.3	49	16-89	2	30	
Acenaphthene	4.2 J	86.7	94.3	87	91.3	94.3	92	62-108	6	30	
Acenaphthylene	1.6 U	90.5	94.3	96	93.4	94.3	99	61-108	3	30	
Acetophenone	1.6 U	167 E	189	89	164 E	189	87	45-104	2	30	
Anthracene	1.5 J	95.0	94.3	99	96.5	94.3	101	68-110	2	30	
Atrazine	2.1 U	114	94.3	121 *	120	94.3	127 *	10-113	5	30	
Benz(a)anthracene	1.0 U	94.8	94.3	100	94.9	94.3	101	66-113	<1	30	
Benzaldehyde	2.9 U	85.7	94.3	91	76.8	94.3	81	48-200	12	30	
Benzo(a)pyrene	1.0 U	98.6	94.3	104	99.2	94.3	105	44-114	<1	30	
Benzo(b)fluoranthene	1.0 U	90.0	94.3	95	91.2	94.3	97	62-115	2	30	
Benzo(g,h,i)perylene	1.0 U	97.0	94.3	103	96.5	94.3	102	61-136	<1	30	

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18  
**Date Analyzed:** 03/14/18  
**Date Extracted:** 03/13/18

**Duplicate Matrix Spike Summary**  
**Semivolatle Organic Compounds by GC/MS**

**Sample Name:** MW-02  
**Lab Code:** R1802137-002  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Matrix Spike RQ1802190-04				Duplicate Matrix Spike RQ1802190-05			% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Benzo(k)fluoranthene	1.1 U	95.3	94.3	101	96.3	94.3	102	49-133	<1	30
Biphenyl	2.5 U	84.7	94.3	90	89.7	94.3	95	41-106	5	30
2,2'-Oxybis(1-chloropropane)	1.3 U	97.2	94.3	103	91.7	94.3	97	43-116	6	30
Bis(2-chloroethoxy)methane	1.4 U	93.0	94.3	99	94.8	94.3	100	49-156	1	30
Bis(2-chloroethyl) Ether	1.3 U	82.8	94.3	88	78.2	94.3	83	56-106	6	30
Bis(2-ethylhexyl) Phthalate	1.4 U	94.1	94.3	100	95.4	94.3	101	69-124	<1	30
Butyl Benzyl Phthalate	1.0 U	89.4	94.3	95	90.7	94.3	96	41-148	1	30
Caprolactam	1.3 U	24.5	94.3	26	27.5	94.3	29	10-48	11	30
Carbazole	4.2 J	97.7	94.3	99	98.3	94.3	100	49-127	1	30
Chrysene	1.0 U	96.9	94.3	103	97.7	94.3	104	64-117	<1	30
Di-n-butyl Phthalate	1.3 U	90.6	94.3	96	92.0	94.3	98	68-117	2	30
Di-n-octyl Phthalate	1.3 U	94.2	94.3	100	97.2	94.3	103	44-151	3	30
Dibenz(a,h)anthracene	1.0 U	99.9	94.3	106	98.8	94.3	105	57-127	<1	30
Dibenzofuran	2.8 J	88.8	94.3	91	93.9	94.3	97	65-102	6	30
Diethyl Phthalate	1.0 U	76.6	94.3	81	81.1	94.3	86	64-117	6	30
Dimethyl Phthalate	1.7 U	72.4	94.3	77	76.8	94.3	81	63-112	5	30
Fluoranthene	1.5 U	95.6	94.3	101	96.7	94.3	103	62-120	2	30
Fluorene	3.3 J	83.3	94.3	85	87.3	94.3	89	66-107	5	30
Hexachlorobenzene	1.4 U	88.2	94.3	93	87.8	94.3	93	61-110	<1	30
Hexachlorobutadiene	2.4 U	76.1	94.3	81	77.3	94.3	82	10-111	1	30
Hexachlorocyclopentadiene	2.3 U	74.1	94.3	79	73.7	94.3	78	10-103	1	30
Hexachloroethane	2.7 U	66.0	94.3	70	62.0	94.3	66	12-101	6	30
Indeno(1,2,3-cd)pyrene	1.2 U	92.4	94.3	98	93.2	94.3	99	58-126	1	30
Isophorone	1.3 U	86.4	94.3	92	90.0	94.3	95	54-109	3	30
N-Nitrosodi-n-propylamine	1.6 U	87.2	94.3	92	83.7	94.3	89	25-120	3	30
N-Nitrosodiphenylamine	1.3 U	94.8	94.3	100	94.7	94.3	100	35-150	<1	30
Naphthalene	10	86.9	94.3	81	89.6	94.3	84	28-113	4	30
Nitrobenzene	1.4 U	75.9	94.3	80	77.5	94.3	82	48-107	2	30
Pentachlorophenol (PCP)	1.9 U	96.3	94.3	102	104	94.3	110	34-159	8	30
Phenanthrene	7.0 J	97.3	94.3	96	97.8	94.3	96	58-118	<1	30
Phenol	1.6 U	38.4	94.3	41	35.2	94.3	37	13-58	10	30
Pyrene	1.2 J	97.9	94.3	102	98.5	94.3	103	62-123	<1	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.





**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1802190-01

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2.5 U	10	2.5	1	03/14/18 09:48	3/13/18	
2,3,4,6-Tetrachlorophenol	1.7 U	10	1.7	1	03/14/18 09:48	3/13/18	
2,4,5-Trichlorophenol	3.1 U	10	3.1	1	03/14/18 09:48	3/13/18	
2,4,6-Trichlorophenol	1.5 U	10	1.5	1	03/14/18 09:48	3/13/18	
2,4-Dichlorophenol	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
2,4-Dimethylphenol	1.2 U	10	1.2	1	03/14/18 09:48	3/13/18	
2,4-Dinitrophenol	2.7 U	50	2.7	1	03/14/18 09:48	3/13/18	
2,4-Dinitrotoluene	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
2,6-Dinitrotoluene	1.1 U	10	1.1	1	03/14/18 09:48	3/13/18	
2-Chloronaphthalene	2.7 U	10	2.7	1	03/14/18 09:48	3/13/18	
2-Chlorophenol	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
2-Methylnaphthalene	2.5 U	10	2.5	1	03/14/18 09:48	3/13/18	
2-Methylphenol	1.7 U	10	1.7	1	03/14/18 09:48	3/13/18	
2-Nitroaniline	2.1 U	50	2.1	1	03/14/18 09:48	3/13/18	
2-Nitrophenol	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
3,3'-Dichlorobenzidine	1.1 U	10	1.1	1	03/14/18 09:48	3/13/18	
3- and 4-Methylphenol Coelution	1.7 U	10	1.7	1	03/14/18 09:48	3/13/18	
3-Nitroaniline	1.0 U	50	1.0	1	03/14/18 09:48	3/13/18	
4,6-Dinitro-2-methylphenol	1.6 U	50	1.6	1	03/14/18 09:48	3/13/18	
4-Bromophenyl Phenyl Ether	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
4-Chloro-3-methylphenol	2.0 U	10	2.0	1	03/14/18 09:48	3/13/18	
4-Chloroaniline	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
4-Chlorophenyl Phenyl Ether	2.3 U	10	2.3	1	03/14/18 09:48	3/13/18	
4-Nitroaniline	1.5 U	50	1.5	1	03/14/18 09:48	3/13/18	
4-Nitrophenol	1.1 U	50	1.1	1	03/14/18 09:48	3/13/18	
Acenaphthene	1.6 U	10	1.6	1	03/14/18 09:48	3/13/18	
Acenaphthylene	1.6 U	10	1.6	1	03/14/18 09:48	3/13/18	
Acetophenone	1.6 U	10	1.6	1	03/14/18 09:48	3/13/18	
Anthracene	1.1 U	10	1.1	1	03/14/18 09:48	3/13/18	
Atrazine	2.1 U	10	2.1	1	03/14/18 09:48	3/13/18	
Benz(a)anthracene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Benzaldehyde	2.9 U	50	2.9	1	03/14/18 09:48	3/13/18	
Benzo(a)pyrene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Benzo(b)fluoranthene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Benzo(g,h,i)perylene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Benzo(k)fluoranthene	1.1 U	10	1.1	1	03/14/18 09:48	3/13/18	
Biphenyl	2.5 U	10	2.5	1	03/14/18 09:48	3/13/18	
2,2'-Oxybis(1-chloropropane)	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
Bis(2-chloroethoxy)methane	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
Bis(2-chloroethyl) Ether	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
Bis(2-ethylhexyl) Phthalate	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
Butyl Benzyl Phthalate	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Caprolactam	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1802190-01

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.2 U	10	1.2	1	03/14/18 09:48	3/13/18	
Chrysene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Di-n-butyl Phthalate	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
Di-n-octyl Phthalate	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
Dibenz(a,h)anthracene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Dibenzofuran	1.7 U	10	1.7	1	03/14/18 09:48	3/13/18	
Diethyl Phthalate	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Dimethyl Phthalate	1.7 U	10	1.7	1	03/14/18 09:48	3/13/18	
Fluoranthene	1.5 U	10	1.5	1	03/14/18 09:48	3/13/18	
Fluorene	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
Hexachlorobenzene	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
Hexachlorobutadiene	2.4 U	10	2.4	1	03/14/18 09:48	3/13/18	
Hexachlorocyclopentadiene	2.3 U	10	2.3	1	03/14/18 09:48	3/13/18	
Hexachloroethane	2.7 U	10	2.7	1	03/14/18 09:48	3/13/18	
Indeno(1,2,3-cd)pyrene	1.2 U	10	1.2	1	03/14/18 09:48	3/13/18	
Isophorone	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
N-Nitrosodi-n-propylamine	1.6 U	10	1.6	1	03/14/18 09:48	3/13/18	
N-Nitrosodiphenylamine	1.3 U	10	1.3	1	03/14/18 09:48	3/13/18	
Naphthalene	2.2 U	10	2.2	1	03/14/18 09:48	3/13/18	
Nitrobenzene	1.4 U	10	1.4	1	03/14/18 09:48	3/13/18	
Pentachlorophenol (PCP)	1.9 U	50	1.9	1	03/14/18 09:48	3/13/18	
Phenanthrene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	
Phenol	1.6 U	10	1.6	1	03/14/18 09:48	3/13/18	
Pyrene	1.0 U	10	1.0	1	03/14/18 09:48	3/13/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	102	35 - 141	03/14/18 09:48	
2-Fluorobiphenyl	46	31 - 118	03/14/18 09:48	
2-Fluorophenol	38	10 - 105	03/14/18 09:48	
Nitrobenzene-d5	65	31 - 110	03/14/18 09:48	
Phenol-d6	27	10 - 107	03/14/18 09:48	
Terphenyl-d14	111	30 - 133	03/14/18 09:48	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/14/18 10:16  
**Date Extracted:** 03/13/18

**Lab Control Sample Summary**  
**Semivolatiles Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample      **Instrument ID:** R-MS-54  
**Lab Code:** RQ1802190-02      **File ID:** I:\ACQUADATA\5973D\Data\031418\BN219.D\  
**Analysis Method:** 8270D      **Analysis Lot:** 583597  
**Prep Method:** EPA 3510C      **Extraction Lot:** 309817

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1802190-01	I:\ACQUADATA\5973D\Data\031418\BN218.D\	03/14/18 09:48
Duplicate Lab Control Sample	RQ1802190-03	I:\ACQUADATA\5973D\Data\031418\BN220.D\	03/14/18 10:44
MW-02	R1802137-002	I:\ACQUADATA\5973D\Data\031418\BN221.D\	03/14/18 11:13
MW-02	RQ1802190-04	I:\ACQUADATA\5973D\Data\031418\BN222.D\	03/14/18 11:41
MW-02	RQ1802190-05	I:\ACQUADATA\5973D\Data\031418\BN223.D\	03/14/18 12:10
MW-08	R1802137-008	I:\ACQUADATA\5973D\Data\031418\BN224.D\	03/14/18 12:38

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/14/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

Analyte Name	Lab Control Sample RQ1802190-02				Duplicate Lab Control Sample RQ1802190-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	88.5	103	86	82.3	103	80	25-123	7	30
2,3,4,6-Tetrachlorophenol	8270D	100	100	100	95.4	100	95	59-150	5	30
2,4,5-Trichlorophenol	8270D	105	100	105	98.6	100	99	63-121	6	30
2,4,6-Trichlorophenol	8270D	103	100	103	95.6	100	96	64-116	7	30
2,4-Dichlorophenol	8270D	96.6	100	97	92.0	100	92	52-111	5	30
2,4-Dimethylphenol	8270D	96.3	100	96	92.0	100	92	44-114	4	30
2,4-Dinitrophenol	8270D	89.3	100	89	87.3	100	87	10-160	2	30
2,4-Dinitrotoluene	8270D	97.1	100	97	92.3	100	92	62-142	5	30
2,6-Dinitrotoluene	8270D	93.7	100	94	87.0	100	87	61-139	8	30
2-Chloronaphthalene	8270D	91.2	100	91	87.3	100	87	53-98	4	30
2-Chlorophenol	8270D	85.6	100	86	85.3	100	85	42-112	1	30
2-Methylnaphthalene	8270D	86.8	100	87	82.7	100	83	34-102	5	30
2-Methylphenol	8270D	83.2	100	83	83.5	100	83	59-104	<1	30
2-Nitroaniline	8270D	95.9	100	96	92.6	100	93	52-133	3	30
2-Nitrophenol	8270D	95.8	100	96	87.9	100	88	51-115	9	30
3,3'-Dichlorobenzidine	8270D	92.9	100	93	81.8	100	82	45-122	13	30
3- and 4-Methylphenol Coelution	8270D	75.9	100	76	77.6	100	78	50-111	3	30
3-Nitroaniline	8270D	76.7	100	77	71.5	100	72	48-115	7	30
4,6-Dinitro-2-methylphenol	8270D	97.2	100	97	85.4	100	85	35-168	13	30
4-Bromophenyl Phenyl Ether	8270D	91.2	100	91	84.1	100	84	65-113	8	30
4-Chloro-3-methylphenol	8270D	103	100	103	95.4	100	95	52-113	8	30
4-Chloroaniline	8270D	91.0	100	91	82.4	100	82	47-104	10	30
4-Chlorophenyl Phenyl Ether	8270D	97.5	100	97	93.0	100	93	61-110	4	30
4-Nitroaniline	8270D	88.5	100	89	85.7	100	86	54-133	3	30
4-Nitrophenol	8270D	50.8	100	51	49.4 J	100	49	10-126	4	30
Acenaphthene	8270D	92.7	100	93	88.8	100	89	54-125	4	30
Acenaphthylene	8270D	99.9	100	100	94.1	100	94	60-106	6	30
Acetophenone	8270D	179 E	200	90	173 E	200	87	46-114	3	30
Anthracene	8270D	101	100	101	93.7	100	94	55-116	7	30
Atrazine	8270D	127	100	127	113	100	113	60-158	12	30
Benz(a)anthracene	8270D	102	100	102	94.8	100	95	66-110	7	30
Benzaldehyde	8270D	93.1	100	93	90.4	100	90	46-200	3	30
Benzo(a)pyrene	8270D	106	100	106	99.7	100	100	44-114	6	30

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/14/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

Analyte Name	Lab Control Sample RQ1802190-02				Duplicate Lab Control Sample RQ1802190-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzo(b)fluoranthene	8270D	97.0	100	97	92.2	100	92	69-117	5	30
Benzo(g,h,i)perylene	8270D	101	100	101	95.1	100	95	63-136	6	30
Benzo(k)fluoranthene	8270D	104	100	104	96.6	100	97	49-133	7	30
Biphenyl	8270D	97.1	100	97	90.4	100	90	39-106	7	30
2,2'-Oxybis(1-chloropropane)	8270D	101	100	101	98.6	100	99	47-132	2	30
Bis(2-chloroethoxy)methane	8270D	97.6	100	98	93.3	100	93	55-110	5	30
Bis(2-chloroethyl) Ether	8270D	87.6	100	88	87.8	100	88	56-102	<1	30
Bis(2-ethylhexyl) Phthalate	8270D	98.5	100	99	90.3	100	90	70-132	10	30
Butyl Benzyl Phthalate	8270D	93.7	100	94	86.9	100	87	41-148	8	30
Caprolactam	8270D	32.1	100	32	29.3	100	29	10-41	10	30
Carbazole	8270D	101	100	101	96.6	100	97	61-126	4	30
Chrysene	8270D	104	100	104	97.0	100	97	57-118	7	30
Di-n-butyl Phthalate	8270D	97.3	100	97	90.9	100	91	57-139	6	30
Di-n-octyl Phthalate	8270D	101	100	101	93.2	100	93	70-134	8	30
Dibenz(a,h)anthracene	8270D	110	100	110	101	100	101	58-132	9	30
Dibenzofuran	8270D	97.9	100	98	93.2	100	93	62-105	5	30
Diethyl Phthalate	8270D	85.0	100	85	78.6	100	79	65-122	7	30
Dimethyl Phthalate	8270D	81.0	100	81	76.0	100	76	58-119	6	30
Fluoranthene	8270D	103	100	103	97.4	100	97	66-127	6	30
Fluorene	8270D	88.2	100	88	86.5	100	86	66-110	2	30
Hexachlorobenzene	8270D	94.8	100	95	87.1	100	87	68-115	9	30
Hexachlorobutadiene	8270D	67.0	100	67	69.3	100	69	16-95	3	30
Hexachlorocyclopentadiene	8270D	76.5	100	77	73.8	100	74	10-99	4	30
Hexachloroethane	8270D	51.4	100	51	57.6	100	58	15-92	13	30
Indeno(1,2,3-cd)pyrene	8270D	99.4	100	99	93.6	100	94	65-124	5	30
Isophorone	8270D	92.5	100	92	87.7	100	88	50-116	4	30
N-Nitrosodi-n-propylamine	8270D	90.5	100	91	89.4	100	89	49-115	2	30
N-Nitrosodiphenylamine	8270D	102	100	102	93.3	100	93	45-123	9	30
Naphthalene	8270D	77.7	100	78	75.6	100	76	36-95	3	30
Nitrobenzene	8270D	81.2	100	81	76.1	100	76	46-108	6	30
Pentachlorophenol (PCP)	8270D	107	100	107	94.2	100	94	41-154	13	30
Phenanthrene	8270D	98.2	100	98	92.6	100	93	58-118	5	30
Phenol	8270D	42.7	100	43	41.7	100	42	10-113	2	30

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Analyzed:** 03/14/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

Analyte Name	Lab Control Sample RQ1802190-02				Duplicate Lab Control Sample RQ1802190-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Pyrene	8270D	102	100	102	96.8	100	97	69-127	5	30

**ALS Group USA, Corp.**  
dba ALS Environmental

QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137  
**Date Analyzed:**03/14/18 07:36

**Tune Summary**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\031418\BN215.D\  
**Instrument ID:** R-MS-54

**Analytical Method:** 8270D  
**Analysis Lot:** 583597

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	37.86	26056	Pass
68	69	0.00	2	1.77	492	Pass
69	198	0.00	100	40.45	27840	Pass
70	69	0.00	2	0.47	130	Pass
127	198	10	80	50.89	35023	Pass
197	198	0.00	2	0.52	356	Pass
198	198	100	100	100.00	68821	Pass
199	198	5	9	7.05	4850	Pass
275	198	10	60	26.71	18379	Pass
365	198	1	100	2.97	2045	Pass
441	442	0.01	24	14.86	10641	Pass
442	442	100	100	100.00	71591	Pass
443	442	15	24	19.15	13709	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1802298-02	I:\ACQUADATA\5973D\Data\031418\BN216.D\	03/14/18 08:15	
Method Blank	RQ1802190-01	I:\ACQUADATA\5973D\Data\031418\BN218.D\	03/14/18 09:48	
Lab Control Sample	RQ1802190-02	I:\ACQUADATA\5973D\Data\031418\BN219.D\	03/14/18 10:16	
Duplicate Lab Control Sample	RQ1802190-03	I:\ACQUADATA\5973D\Data\031418\BN220.D\	03/14/18 10:44	
MW-02	R1802137-002	I:\ACQUADATA\5973D\Data\031418\BN221.D\	03/14/18 11:13	
MW-02	RQ1802190-04	I:\ACQUADATA\5973D\Data\031418\BN222.D\	03/14/18 11:41	
MW-02	RQ1802190-05	I:\ACQUADATA\5973D\Data\031418\BN223.D\	03/14/18 12:10	
MW-08	R1802137-008	I:\ACQUADATA\5973D\Data\031418\BN224.D\	03/14/18 12:38	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137  
**Date Analyzed:**03/14/18 08:15

**Internal Standard Area and RT SUMMARY**  
**Semivolatle Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\5973D\Data\031418\BN216.D\  
**Instrument ID:** R-MS-54  
**Analysis Method:** 8270D

**Lab Code:**RQ1802298-02  
**Analysis Lot:**583597  
**Signal ID:**

	1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	93,658	4.84	202,479	7.71	348,782	12.49
<b>Upper Limit ==&gt;</b>	187,316	5.34	404,958	8.21	697,564	12.99
<b>Lower Limit ==&gt;</b>	46,829	4.34	101,240	7.21	174,391	11.99

**Associated Analyses**

Method Blank	RQ1802190-01	81795	4.84	175665	7.71	262631	12.48
Lab Control Sample	RQ1802190-02	82021	4.84	177602	7.71	302030	12.49
Duplicate Lab Control Sample	RQ1802190-03	73757	4.84	166963	7.71	291993	12.49
MW-02	R1802137-002	75094	4.84	163036	7.71	258452	12.48
MW-02	RQ1802190-04	79273	4.84	179065	7.71	285289	12.49
MW-02	RQ1802190-05	80157	4.84	175550	7.71	296057	12.49
MW-08	R1802137-008	76793	4.84	168608	7.71	276300	12.48



**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137  
**Date Analyzed:**03/14/18 08:15

**Internal Standard Area and RT SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUDATA\5973D\Data\031418\BN216.D\  
**Instrument ID:** R-MS-54  
**Analysis Method:** 8270D

**Lab Code:**RQ1802298-02  
**Analysis Lot:**583597  
**Signal ID:**

	Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	381,713	6.00	354,824	15.46	328,493	9.18
<b>Upper Limit ==&gt;</b>	763,426	6.50	709,648	15.96	656,986	9.68
<b>Lower Limit ==&gt;</b>	190,857	5.50	177,412	14.96	164,247	8.68

**Associated Analyses**

		Area	RT	Area	RT	Area	RT
Method Blank	RQ1802190-01	311403	6.00	295914	15.44	272189	9.17
Lab Control Sample	RQ1802190-02	324728	6.00	315542	15.45	278127	9.18
Duplicate Lab Control Sample	RQ1802190-03	306568	6.00	301846	15.45	267174	9.18
MW-02	R1802137-002	288736	6.00	283797	15.44	253188	9.17
MW-02	RQ1802190-04	322173	6.00	297713	15.45	271533	9.18
MW-02	RQ1802190-05	307896	6.00	310836	15.45	278468	9.18
MW-08	R1802137-008	292219	6.00	301747	15.44	267067	9.17



# Metals

**ALS Environmental—Rochester Laboratory**  
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**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	1010	101	1000	993	99	997	100	P
Barium	10000	10300	103	10000	10200	102	10300	103	P
Cadmium	500	514	103	500	508	102	510	102	P
Mercury	3.00	2.97	99	3.00	2.99	100	3.01	100	CV
Chromium	500	522	104	500	517	103	520	104	P
Lead	500	512	102	500	504	101	508	102	P
Selenium	500	510	102	500	503	101	505	101	P
Silver	500	484	97	500	480	96	481	96	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	992	99	1000	100	P
Barium				10000	10100	101	10200	102	P
Cadmium				500	502	100	506	101	P
Mercury				3.00	3.05	102	3.06	102	CV
Chromium				500	511	102	515	103	P
Lead				500	499	100	505	101	P
Selenium				500	498	100	494	99	P
Silver				500	474	95	477	95	P

Comments:

METALS  
-2A-  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	989	99	992	99	P
Barium				10000	10000	100	10100	101	P
Cadmium				500	501	100	500	100	P
Mercury				3.00	3.08	103			CV
Chromium				500	508	102	511	102	P
Lead				500	498	100	500	100	P
Selenium				500	491	98	487	97	P
Silver				500	472	94	475	95	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	987	99	997	100	P
Barium				10000	10100	101	10100	101	P
Cadmium				500	499	100	506	101	P
Chromium				500	510	102	514	103	P
Lead				500	498	100	503	101	P
Selenium				500	486	97	495	99	P
Silver				500	472	94	476	95	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	971	97	1000	977	98	967	97	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	974	97	966	97	P

Comments:



**METALS**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
				True	Found	%R	Found	%R
Arsenic				20.0	21.20	106	22.50	112
Barium				200.0	207.60	104	205.00	102
Cadmium				10.0	9.90	99	9.90	99
Mercury	0.200	0.205	102					
Chromium				10.0	10.20	102	10.10	101
Lead				10.0	9.40	94	8.60	86
Selenium				10.0	12.80	128	11.40	114
Silver				10.0	9.60	96	9.40	94

Comments:

**METALS**  
**-2B-**  
**CRDL STANDARD FOR AA AND ICP**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
				True	Found	%R	Found	%R
Mercury	0.200	0.210	105					

Comments:

METALS  
-2B-  
CRDL STANDARD FOR AA AND ICP

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source: \_\_\_\_\_

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	21.90	110	17.70	88

Comments:

METALS

-3-

BLANKS

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic	3.60 U	3.60	U	3.80	J	3.60	U	3.600	U	P
Barium	13.00 U	13.00	U	13.00	U	13.00	U	13.000	U	P
Cadmium	0.90 U	0.90	U	0.90	U	0.90	U	0.900	U	P
Mercury	0.090 U	0.090	U	0.090	U	0.090	U	0.090	U	CV
Chromium	2.68 U	2.68	U	2.68	U	2.68	U	2.680	U	P
Lead	3.60 U	3.60	U	3.60	U	3.60	U	3.600	U	P
Selenium	3.32 U	3.32	U	3.32	U	3.32	U	3.320	U	P
Silver	1.69 U	1.69	U	1.69	U	1.69	U	1.690	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		3.60	U	3.60	U	3.60	U			P
Barium		13.00	U	13.00	U	13.00	U			P
Cadmium		0.90	U	0.90	U	0.90	U			P
Mercury		0.090	U	0.090	U					CV
Chromium		2.68	U	2.68	U	2.68	U			P
Lead		3.60	U	3.60	U	3.60	U			P
Selenium		3.32	U	3.32	U	5.10	J			P
Silver		1.69	U	1.69	U	1.69	U			P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		3.60	J	3.60	U					P
Barium		13.00	U	13.00	U					P
Cadmium		0.90	U	0.90	U					P
Chromium		2.68	U	2.68	U					P
Lead		3.60	U	3.60	U					P
Selenium		3.40	J	3.32	U					P
Silver		1.69	U	1.69	U					P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic	3.60 U	3.60	U	3.60	U	3.60	U			P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		3.60	U							P

Comments:



METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	3.2	107	107	2.0	102	102
Barium		500	0.3	525	105	0.1	519	104
Cadmium		1000	-0.9	974	97	-0.8	962	96
Chromium		500	0.3	509	102	0.1	503	101
Lead		50	-4.2	46	92	-3.3	48	96
Selenium		50	-0.6	54	108	4.8	47	94
Silver		200	-0.1	214	107	-0.1	212	106

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	2.1	99	99	-0.1	102	102

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-02S

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	43.10	3.60 U	40.0	108		P
Barium	75 - 125	2110.00	138.00	2000.0	99		P
Cadmium	75 - 125	48.00	0.90 U	50.0	96		P
Mercury	75 - 125	1.040	0.090 U	1.00	104		CV
Chromium	75 - 125	197.00	2.68 U	200.0	98		P
Lead	75 - 125	488.00	3.60 U	500.0	98		P
Selenium	75 - 125	1070.00	3.32 U	1010.0	106		P
Silver	75 - 125	51.00	1.69 U	50.0	102		P

Comments:

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METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-02SD

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	47.30	3.60 U	40.0	118		P
Barium	75 - 125	2150.00	138.00	2000.0	101		P
Cadmium	75 - 125	49.00	0.90 U	50.0	98		P
Mercury	75 - 125	1.020	0.090 U	1.00	102		CV
Chromium	75 - 125	200.00	2.68 U	200.0	100		P
Lead	75 - 125	497.00	3.60 U	500.0	99		P
Selenium	75 - 125	1080.00	3.32 U	1010.0	107		P
Silver	75 - 125	51.70	1.69 U	50.0	103		P

Comments:

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METALS  
-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

MW-02A

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added(SA)	%R	Q	M
Arsenic		38.80	3.60 U	40.0	97		P
Barium		2090.00	138.00	2000.0	98		P
Cadmium		48.00	0.90 U	50.0	96		P
Chromium		195.00	2.68 U	200.0	98		P
Lead		487.00	3.60 U	500.0	97		P
Selenium		1090.00	3.32 U	1010.0	108		P
Silver		51.90	1.69 U	50.0	104		P

Comments:

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\_\_\_\_\_

METALS  
-6-  
DUPLICATES

SAMPLE NO.

MW-02SD

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Arsenic		43.10	47.30	9		P
Barium		2110.00	2150.00	2		P
Cadmium		48.00	49.00	2		P
Mercury		1.040	1.020	2		CV
Chromium		197.00	200.00	2		P
Lead		488.00	497.00	2		P
Selenium		1070.00	1080.00	1		P
Silver		51.00	51.70	1		P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Solid LCS Source: \_\_\_\_\_

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L)			Solid (mg/K)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic	40	39	98					
Barium	2000	2040	102					
Cadmium	50	51	102					
Mercury	1.000	1.040	104					
Chromium	200	203	102					
Lead	500	505	101					
Selenium	1010	1020	101					
Silver	50	49	98					

Comments: \_\_\_\_\_

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

MW-02L

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	M
Arsenic	3.60 U	18.00 U			P
Barium	138.00	142.00	3		P
Cadmium	0.90 U	4.50 U			P
Chromium	2.68 U	13.40 U			P
Lead	3.60 U	18.00 U			P
Selenium	3.32 U	16.60 U			P
Silver	1.69 U	8.45 U			P

Comments: \_\_\_\_\_



METALS  
-10-  
DETECTION LIMITS

Contract: R1802137  
Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02  
ICP ID Number: \_\_\_\_\_ Date: 5/5/2017  
Flame AA ID Number: PE FAA/CVAA  
Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.090	CV

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-10-  
DETECTION LIMITS

Contract: R1802137  
Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02  
ICP ID Number: Agilent ICP Date: 3/23/2017  
Flame AA ID Number: \_\_\_\_\_  
Furnace AA ID Number: \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Arsenic	188.980		10.0	3.60	P
Barium	230.424		20.0	13.00	P
Cadmium	214.439		5.0	0.90	P
Chromium	267.716		10.0	2.68	P
Lead	220.353		50.0	3.60	P
Selenium	196.026		10.0	3.32	P
Silver	328.068		10.0	1.69	P

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
ICP LINEAR RANGES (QUARTERLY)

-12-

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

ICP ID Number: Agilent ICP Date: 4/28/2017

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Cadmium	1.000	2000	P
Chromium	1.000	10000	P
Lead	1.000	10000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	15:41				X	X		X	X				X						X	X					
STANDARD 1	1.00	15:45				X	X		X	X				X						X	X					
STANDARD 2	1.00	15:48				X	X		X	X				X						X	X					
STANDARD 3	1.00	15:51				X	X		X	X				X						X	X					
STANDARD 4	1.00	15:55				X	X		X	X				X						X	X					
STANDARD 5	1.00	15:58				X	X		X	X				X						X	X					
ICV1	1.00	16:01				X	X		X	X				X						X	X					
ICB1	1.00	16:05				X	X		X	X				X						X	X					
ZZZZZZ	1.00	16:08																								
ZZZZZZ	1.00	16:11																								
ZZZZZZ	1.00	16:15																								
ZZZZZZ	1.00	16:18																								
ZZZZZZ	1.00	16:21																								
ZZZZZZ	1.00	16:25																								
ZZZZZZ	1.00	16:28																								
ZZZZZZ	10.00	16:31																								
ZZZZZZ	1.00	16:35																								
ZZZZZZ	5.00	16:38																								
ZZZZZZ	1.00	16:41																								
ZZZZZZ	1.00	16:44																								
ZZZZZZ	1.00	16:48																								
ZZZZZZ	1.00	16:51																								
ZZZZZZ	1.00	16:54																								
ZZZZZZ	1.00	16:58																								
ZZZZZZ	1.00	17:01																								
ZZZZZZ	1.00	17:04																								
ZZZZZZ	1.00	17:08																								
ZZZZZZ	1.00	17:11																								
ZZZZZZ	1.00	17:14																								
ZZZZZZ	1.00	17:18																								
ZZZZZZ	1.00	17:21																								
ZZZZZZ	1.00	17:24																								
ZZZZZZ	1.00	17:27																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.00	17:31																													
ZZZZZZ	1.00	17:34																													
ZZZZZZ	1.00	17:37																													
ZZZZZZ	1.00	17:41																													
ZZZZZZ	1.00	17:44																													
ZZZZZZ	1.00	17:47																													
ZZZZZZ	1.00	17:50																													
ZZZZZZ	1.00	17:54																													
ZZZZZZ	1.00	17:57																													
ZZZZZZ	5.00	18:00																													
ZZZZZZ	1.00	18:04																													
ZZZZZZ	1.00	18:07																													
ZZZZZZ	1.00	18:10																													
CCV1	1.00	18:14			X	X		X	X				X							X	X										
CCB1	1.00	18:17			X	X		X	X				X							X	X										
CRDL1	1.00	18:21			X	X		X	X				X							X	X										
ICS-A1	1.00	18:24			X	X		X	X				X							X	X										
ICS-AB1	1.00	18:27			X	X		X	X				X							X	X										
ZZZZZZ	1.00	18:31																													
ZZZZZZ	1.00	18:34																													
ZZZZZZ	1.00	18:37																													
CCV2	1.00	18:41			X	X		X	X				X							X	X										
CCB2	1.00	18:44			X	X		X	X				X							X	X										
ZZZZZZ	1.00	18:47																													
ZZZZZZ	1.00	18:51																													
ZZZZZZ	1.00	18:54																													
ZZZZZZ	1.00	18:57																													
ZZZZZZ	1.00	19:01																													
ZZZZZZ	1.00	19:04																													
ZZZZZZ	5.00	19:07																													
ZZZZZZ	1.00	19:10																													
ZZZZZZ	1.00	19:14																													
ZZZZZZ	1.00	19:17																													

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METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N A	T L	V	Z N
ZZZZZZ	1.00	19:20																								
ZZZZZZ	1.00	19:24																								
ZZZZZZ	1.00	19:27																								
ZZZZZZ	1.00	19:30																								
ZZZZZZ	1.00	19:34																								
ZZZZZZ	1.00	19:37																								
ZZZZZZ	1.00	19:40																								
ZZZZZZ	1.00	19:44																								
ZZZZZZ	1.00	19:47																								
ZZZZZZ	1.00	19:50																								
ZZZZZZ	1.00	19:54																								
ZZZZZZ	1.00	19:57																								
ZZZZZZ	1.00	20:00																								
ZZZZZZ	1.00	20:04																								
ZZZZZZ	1.00	20:07																								
ZZZZZZ	1.00	20:10																								
ZZZZZZ	1.00	20:14																								
ZZZZZZ	1.00	20:17																								
ZZZZZZ	1.00	20:20																								
ZZZZZZ	1.00	20:23																								
ZZZZZZ	1.00	20:27																								
ZZZZZZ	1.00	20:30																								
ZZZZZZ	1.00	20:33																								
ZZZZZZ	1.00	20:37																								
ZZZZZZ	1.00	20:40																								
ZZZZZZ	1.00	20:43																								
ZZZZZZ	1.00	20:47																								
ZZZZZZ	1.00	20:50																								
ZZZZZZ	1.00	20:53																								
ZZZZZZ	1.00	20:57																								
ZZZZZZ	1.00	21:00																								
ZZZZZZ	1.00	21:03																								
ZZZZZZ	1.00	21:06																								

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METALS

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ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N A	T L	V	Z N
ZZZZZZ	1.00	21:10																								
ZZZZZZ	1.00	21:13																								
ZZZZZZ	1.00	21:16																								
ZZZZZZ	1.00	21:20																								
ZZZZZZ	1.00	21:23																								
ZZZZZZ	1.00	21:26																								
ZZZZZZ	1.00	21:30																								
ZZZZZZ	5.00	21:33																								
ZZZZZZ	1.00	21:36																								
ZZZZZZ	1.00	21:40																								
ZZZZZZ	1.00	21:43																								
ZZZZZZ	1.00	21:46																								
ZZZZZZ	1.00	21:50																								
ZZZZZZ	1.00	21:53																								
ZZZZZZ	1.00	21:56																								
ZZZZZZ	1.00	21:59																								
ZZZZZZ	1.00	22:03																								
ZZZZZZ	1.00	22:06																								
ZZZZZZ	1.00	22:09																								
ZZZZZZ	1.00	22:13																								
ZZZZZZ	1.00	22:16																								
ZZZZZZ	5.00	22:19																								
ZZZZZZ	1.00	22:23																								
ZZZZZZ	1.00	22:26																								
ZZZZZZ	1.00	22:29																								
ZZZZZZ	1.00	22:33																								
ZZZZZZ	1.00	22:36																								
ZZZZZZ	1.00	22:39																								
ZZZZZZ	1.00	22:43																								
ZZZZZZ	1.00	22:46																								
CCV3	1.00	22:49				X	X		X	X				X						X	X					
CCB3	1.00	22:53				X	X		X	X				X						X	X					
PBW	1.00	22:56				X	X		X	X				X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
LCSW	1.00	22:59				X	X		X	X				X						X	X					
ZZZZZZ	1.00	23:03																								
ZZZZZZ	1.00	23:06																								
ZZZZZZ	1.00	23:09																								
ZZZZZZ	1.00	23:13																								
ZZZZZZ	5.00	23:16																								
ZZZZZZ	1.00	23:19																								
ZZZZZZ	1.00	23:22																								
ZZZZZZ	1.00	23:26																								
CCV4	1.00	23:29				X	X		X	X				X						X	X					
CCB4	1.00	23:32				X	X		X	X				X						X	X					
ZZZZZZ	1.00	23:36																								
ZZZZZZ	1.00	23:39																								
ZZZZZZ	1.00	23:42																								
ZZZZZZ	1.00	23:46																								
ZZZZZZ	1.00	23:49																								
ZZZZZZ	1.00	23:52																								
ZZZZZZ	1.00	23:56																								
ZZZZZZ	1.00	23:59																								
ZZZZZZ	1.00	00:02																								
ZZZZZZ	1.00	00:06																								
CCV5	1.00	00:09				X	X		X	X				X						X	X					
CCB5	1.00	00:12				X	X		X	X				X						X	X					
ZZZZZZ	1.00	00:15																								
ZZZZZZ	1.00	00:19																								
ZZZZZZ	10.00	00:22																								
ZZZZZZ	10.00	00:25																								
ZZZZZZ	1.00	00:29																								
ZZZZZZ	1.00	00:32																								
MW-02	1.00	00:35					X		X	X				X						X	X					
MW-02S	1.00	00:39					X		X	X				X						X	X					
MW-02SD	1.00	00:42					X		X	X				X						X	X					
MW-02A	1.00	00:45					X		X	X				X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



METALS

-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
CCV6	1.00	00:49				X	X		X	X				X					X	X						
CCB6	1.00	00:52				X	X		X	X				X					X	X						
MW-02L	5.00	00:55					X		X	X				X					X	X						
MW-08	1.00	00:59				X	X		X	X				X					X	X						
CCV7	1.00	01:02				X	X		X	X				X					X	X						
CCB7	1.00	01:05				X	X		X	X				X					X	X						
CRDL2	1.00	01:09				X	X		X	X				X					X	X						
ICS-A2	1.00	01:12				X	X		X	X				X					X	X						
ICS-AB2	1.00	01:15				X	X		X	X				X					X	X						
CCV8	1.00	01:18				X	X		X	X				X					X	X						
CCB8	1.00	01:22				X	X		X	X				X					X	X						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/16/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
BLANK	1.00	17:18			X																										
STANDARD 1	1.00	17:22			X																										
STANDARD 2	1.00	17:25			X																										
STANDARD 3	1.00	17:28			X																										
STANDARD 4	1.00	17:32			X																										
STANDARD 5	1.00	17:35			X																										
ICV2	1.00	17:38			X																										
ICB2	1.00	17:42			X																										
CRDL1	1.00	17:45			X																										
ICS-A1	1.00	17:48			X																										
ICS-AB1	1.00	17:52			X																										
CCV1	1.00	17:55			X																										
CCB1	1.00	17:58			X																										
ZZZZZZ	1.00	18:02																													
ZZZZZZ	1.00	18:05																													
ZZZZZZ	1.00	18:08																													
ZZZZZZ	5.00	18:12																													
ZZZZZZ	1.00	18:15																													
ZZZZZZ	1.00	18:18																													
ZZZZZZ	10.00	18:22																													
ZZZZZZ	10.00	18:25																													
CCV2	1.00	18:28			X																										
CCB2	1.00	18:32			X																										
ZZZZZZ	1.00	18:35																													
ZZZZZZ	1.00	18:38																													
ZZZZZZ	100.00	18:42																													
ZZZZZZ	100.00	18:45																													
MW-02	1.00	18:48			X																										
MW-02S	1.00	18:51			X																										
MW-02SD	1.00	18:55			X																										
MW-02A	1.00	18:58			X																										
MW-02L	5.00	19:01			X																										
CCV3	1.00	19:05			X																										

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/16/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
CCB3	1.00	19:08				X																					
CRDL2	1.00	19:11				X																					
ICS-A2	1.00	19:15				X																					
ICS-AB2	1.00	19:18				X																					
ZZZZZZ	1.00	19:21																									
ZZZZZZ	1.00	19:25																									
ZZZZZZ	1.00	19:28																									
CCV4	1.00	19:31				X																					
CCB4	1.00	19:35				X																					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
Calib Blank	1.00	12:37															X									
0.2ppb std	1.00	12:39															X									
0.5ppb std	1.00	12:40															X									
1.0ppb std	1.00	12:42															X									
2.0ppb std	1.00	12:44															X									
5.0ppb std	1.00	12:45															X									
10.0ppb std	1.00	12:47															X									
ICV1	1.00	12:49															X									
ICB1	1.00	12:50															X									
CRDL1	1.00	12:52															X									
CCV1	1.00	12:54															X									
CCB1	1.00	12:55															X									
PBW	1.00	12:57															X									
LCSW	1.00	12:58															X									
ZZZZZZ	1.00	13:00																								
ZZZZZZ	1.00	13:02																								
ZZZZZZ	1.00	13:03																								
ZZZZZZ	1.00	13:05																								
ZZZZZZ	1.00	13:07																								
ZZZZZZ	1.00	13:08																								
CCV2	1.00	13:10															X									
CCB2	1.00	13:11															X									
ZZZZZZ	1.00	13:13																								
ZZZZZZ	1.00	13:15																								
ZZZZZZ	1.00	13:16																								
ZZZZZZ	1.00	13:18																								
ZZZZZZ	1.00	13:20																								
ZZZZZZ	1.00	13:21																								
ZZZZZZ	1.00	13:23																								
CCV3	1.00	13:25															X									
CCB3	1.00	13:26															X									
ZZZZZZ	1.00	13:28																								
ZZZZZZ	1.00	13:30																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: PE FAA/CVAA Method: CV  
 Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
MW-02	1.00	13:31															X										
MW-02S	1.00	13:33															X										
MW-02SD	1.00	13:34															X										
MW-08	1.00	13:36															X										
ZZZZZZ	1.00	13:38																									
CCV4	1.00	13:39															X										
CCB4	1.00	13:41															X										
ZZZZZZ	1.00	13:43																									
ZZZZZZ	1.00	13:44																									
ZZZZZZ	1.00	13:46																									
ZZZZZZ	1.00	13:48																									
ZZZZZZ	1.00	13:49																									
ZZZZZZ	1.00	13:51																									
ZZZZZZ	1.00	13:53																									
CRDL2	1.00	13:54															X										
CCV5	1.00	13:56															X										
CCB5	1.00	13:57															X										

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



## Raw Data

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-01  
**Lab Code:** R1802137-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 03:46	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 03:46	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 03:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 03:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 03:46	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 03:46	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 03:46	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 03:46	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 03:46	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 03:46	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 03:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
1,4-Dioxane	20 U	100	20	1	03/14/18 03:46	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 03:46	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 03:46	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 03:46	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 03:46	
Acetone	3.9 J	10	1.3	1	03/14/18 03:46	
Benzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 03:46	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 03:46	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 03:46	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 03:46	
Carbon Disulfide	1.1 J	10	0.22	1	03/14/18 03:46	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 03:46	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 03:46	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 03:46	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 03:46	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 03:46	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 03:46	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 03:46	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 03:46	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 03:46	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 03:46	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 03:46	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 03:46	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 03:46	



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-01  
**Lab Code:** R1802137-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 03:46	
Toluene	0.20 U	5.0	0.20	1	03/14/18 03:46	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 03:46	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 03:46	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 03:46	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 03:46	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 03:46	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 03:46	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 03:46	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 03:46	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 03:46	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:46	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 03:46	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 03:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/14/18 03:46	
Dibromofluoromethane	96	89 - 119	03/14/18 03:46	
Toluene-d8	98	87 - 121	03/14/18 03:46	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 04:08	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 04:08	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 04:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 04:08	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 04:08	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 04:08	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 04:08	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 04:08	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 04:08	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 04:08	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 04:08	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
1,4-Dioxane	20 U	100	20	1	03/14/18 04:08	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 04:08	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 04:08	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 04:08	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 04:08	
Acetone	1.3 U	10	1.3	1	03/14/18 04:08	
Benzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 04:08	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 04:08	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 04:08	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 04:08	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 04:08	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 04:08	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 04:08	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 04:08	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 04:08	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 04:08	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 04:08	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 04:08	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 04:08	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 04:08	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 04:08	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 04:08	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 04:08	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 04:08	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 04:08	
Toluene	0.20 U	5.0	0.20	1	03/14/18 04:08	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 04:08	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 04:08	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 04:08	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 04:08	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 04:08	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 04:08	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 04:08	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 04:08	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 04:08	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:08	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 04:08	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 04:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/14/18 04:08	
Dibromofluoromethane	97	89 - 119	03/14/18 04:08	
Toluene-d8	100	87 - 121	03/14/18 04:08	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:25  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-03  
**Lab Code:** R1802137-003

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 04:30	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 04:30	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 04:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 04:30	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 04:30	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 04:30	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 04:30	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 04:30	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 04:30	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 04:30	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 04:30	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
1,4-Dioxane	20 U	100	20	1	03/14/18 04:30	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 04:30	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 04:30	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 04:30	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 04:30	
Acetone	1.3 U	10	1.3	1	03/14/18 04:30	
Benzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 04:30	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 04:30	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 04:30	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 04:30	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 04:30	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 04:30	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 04:30	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 04:30	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 04:30	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 04:30	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 04:30	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 04:30	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 04:30	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 04:30	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 04:30	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 04:30	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 04:30	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 04:30	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:25  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-03  
**Lab Code:** R1802137-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 04:30	
Toluene	0.20 U	5.0	0.20	1	03/14/18 04:30	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 04:30	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 04:30	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 04:30	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 04:30	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 04:30	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 04:30	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 04:30	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 04:30	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 04:30	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:30	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 04:30	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 04:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/14/18 04:30	
Dibromofluoromethane	92	89 - 119	03/14/18 04:30	
Toluene-d8	95	87 - 121	03/14/18 04:30	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:55  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-04  
**Lab Code:** R1802137-004

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 04:52	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 04:52	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 04:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 04:52	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 04:52	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 04:52	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 04:52	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 04:52	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 04:52	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 04:52	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 04:52	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
1,4-Dioxane	20 U	100	20	1	03/14/18 04:52	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 04:52	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 04:52	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 04:52	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 04:52	
Acetone	1.8 J	10	1.3	1	03/14/18 04:52	
Benzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 04:52	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 04:52	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 04:52	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 04:52	
Carbon Disulfide	0.24 J	10	0.22	1	03/14/18 04:52	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 04:52	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 04:52	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 04:52	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 04:52	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 04:52	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 04:52	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 04:52	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 04:52	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 04:52	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 04:52	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 04:52	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 04:52	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 04:52	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:55  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-04  
**Lab Code:** R1802137-004

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 04:52	
Toluene	0.20 U	5.0	0.20	1	03/14/18 04:52	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 04:52	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 04:52	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 04:52	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 04:52	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 04:52	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 04:52	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 04:52	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 04:52	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 04:52	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 04:52	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 04:52	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 04:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/14/18 04:52	
Dibromofluoromethane	92	89 - 119	03/14/18 04:52	
Toluene-d8	97	87 - 121	03/14/18 04:52	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 16:00  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-05  
**Lab Code:** R1802137-005

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 05:15	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 05:15	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 05:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 05:15	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 05:15	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 05:15	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 05:15	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 05:15	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 05:15	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 05:15	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 05:15	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
1,4-Dioxane	20 U	100	20	1	03/14/18 05:15	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 05:15	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 05:15	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 05:15	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 05:15	
Acetone	2.0 J	10	1.3	1	03/14/18 05:15	
Benzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 05:15	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 05:15	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 05:15	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 05:15	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 05:15	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 05:15	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 05:15	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 05:15	
Chloroform	1.6 J	5.0	0.25	1	03/14/18 05:15	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 05:15	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 05:15	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 05:15	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 05:15	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 05:15	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 05:15	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 05:15	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 05:15	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 05:15	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 16:00  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-05  
**Lab Code:** R1802137-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 05:15	
Toluene	0.20 U	5.0	0.20	1	03/14/18 05:15	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 05:15	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 05:15	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 05:15	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 05:15	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 05:15	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 05:15	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 05:15	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 05:15	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 05:15	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:15	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 05:15	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 05:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/14/18 05:15	
Dibromofluoromethane	95	89 - 119	03/14/18 05:15	
Toluene-d8	97	87 - 121	03/14/18 05:15	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-06  
**Lab Code:** R1802137-006

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 05:37	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 05:37	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 05:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 05:37	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 05:37	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 05:37	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 05:37	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 05:37	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 05:37	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 05:37	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 05:37	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
1,4-Dioxane	20 U	100	20	1	03/14/18 05:37	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 05:37	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 05:37	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 05:37	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 05:37	
Acetone	1.7 J	10	1.3	1	03/14/18 05:37	
Benzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 05:37	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 05:37	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 05:37	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 05:37	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 05:37	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 05:37	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 05:37	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 05:37	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 05:37	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 05:37	
Cyclohexane	0.38 J	10	0.25	1	03/14/18 05:37	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 05:37	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 05:37	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 05:37	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 05:37	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 05:37	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 05:37	
Methylcyclohexane	0.43 J	10	0.27	1	03/14/18 05:37	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:45  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-06  
**Lab Code:** R1802137-006

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 05:37	
Toluene	0.20 U	5.0	0.20	1	03/14/18 05:37	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 05:37	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 05:37	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 05:37	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 05:37	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 05:37	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 05:37	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 05:37	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 05:37	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 05:37	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:37	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 05:37	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 05:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/14/18 05:37	
Dibromofluoromethane	96	89 - 119	03/14/18 05:37	
Toluene-d8	100	87 - 121	03/14/18 05:37	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:10  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-07  
**Lab Code:** R1802137-007

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 05:59	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 05:59	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 05:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 05:59	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 05:59	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 05:59	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 05:59	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 05:59	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 05:59	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 05:59	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 05:59	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
1,4-Dioxane	20 U	100	20	1	03/14/18 05:59	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 05:59	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 05:59	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 05:59	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 05:59	
Acetone	<b>3.9 J</b>	10	1.3	1	03/14/18 05:59	
Benzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 05:59	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 05:59	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 05:59	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 05:59	
Carbon Disulfide	<b>0.46 J</b>	10	0.22	1	03/14/18 05:59	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 05:59	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 05:59	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 05:59	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 05:59	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 05:59	
Cyclohexane	<b>0.79 J</b>	10	0.25	1	03/14/18 05:59	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 05:59	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 05:59	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 05:59	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 05:59	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 05:59	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 05:59	
Methylcyclohexane	<b>0.27 J</b>	10	0.27	1	03/14/18 05:59	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 14:10  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-07  
**Lab Code:** R1802137-007

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 05:59	
Toluene	0.20 U	5.0	0.20	1	03/14/18 05:59	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 05:59	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 05:59	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 05:59	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 05:59	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 05:59	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 05:59	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 05:59	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 05:59	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 05:59	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 05:59	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 05:59	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 05:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/18 05:59	
Dibromofluoromethane	94	89 - 119	03/14/18 05:59	
Toluene-d8	98	87 - 121	03/14/18 05:59	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 06:21	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 06:21	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 06:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 06:21	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 06:21	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 06:21	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 06:21	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 06:21	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 06:21	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 06:21	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 06:21	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
1,4-Dioxane	20 U	100	20	1	03/14/18 06:21	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 06:21	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 06:21	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 06:21	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 06:21	
Acetone	1.8 J	10	1.3	1	03/14/18 06:21	
Benzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 06:21	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 06:21	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 06:21	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 06:21	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 06:21	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 06:21	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 06:21	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 06:21	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 06:21	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 06:21	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 06:21	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 06:21	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 06:21	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 06:21	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 06:21	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 06:21	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 06:21	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 06:21	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 06:21	
Toluene	0.20 U	5.0	0.20	1	03/14/18 06:21	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 06:21	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 06:21	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 06:21	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 06:21	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 06:21	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 06:21	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 06:21	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 06:21	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 06:21	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 06:21	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 06:21	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 06:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/18 06:21	
Dibromofluoromethane	95	89 - 119	03/14/18 06:21	
Toluene-d8	97	87 - 121	03/14/18 06:21	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18 10:11

**Sample Name:** TBLANK-1  
**Lab Code:** R1802137-009

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	03/14/18 03:23	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	03/14/18 03:23	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	03/14/18 03:23	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	03/14/18 03:23	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	03/14/18 03:23	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	03/14/18 03:23	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	03/14/18 03:23	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	03/14/18 03:23	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	03/14/18 03:23	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	03/14/18 03:23	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	03/14/18 03:23	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
1,4-Dioxane	20 U	100	20	1	03/14/18 03:23	
2-Butanone (MEK)	0.81 U	10	0.81	1	03/14/18 03:23	
2-Hexanone	1.7 U	10	1.7	1	03/14/18 03:23	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	03/14/18 03:23	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	03/14/18 03:23	
Acetone	1.3 U	10	1.3	1	03/14/18 03:23	
Benzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Bromochloromethane	0.32 U	5.0	0.32	1	03/14/18 03:23	
Bromodichloromethane	0.32 U	5.0	0.32	1	03/14/18 03:23	
Bromoform	0.42 U	5.0	0.42	1	03/14/18 03:23	
Bromomethane	0.29 U	5.0	0.29	1	03/14/18 03:23	
Carbon Disulfide	0.22 U	10	0.22	1	03/14/18 03:23	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	03/14/18 03:23	
Chlorobenzene	0.29 U	5.0	0.29	1	03/14/18 03:23	
Chloroethane	0.24 U	5.0	0.24	1	03/14/18 03:23	
Chloroform	0.25 U	5.0	0.25	1	03/14/18 03:23	
Chloromethane	0.21 U	5.0	0.21	1	03/14/18 03:23	
Cyclohexane	0.25 U	10	0.25	1	03/14/18 03:23	
Dibromochloromethane	0.31 U	5.0	0.31	1	03/14/18 03:23	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	03/14/18 03:23	
Dichloromethane	0.60 U	5.0	0.60	1	03/14/18 03:23	
Ethylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	03/14/18 03:23	
Methyl Acetate	0.43 U	10	0.43	1	03/14/18 03:23	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	03/14/18 03:23	
Methylcyclohexane	0.27 U	10	0.27	1	03/14/18 03:23	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18  
**Date Received:** 03/12/18 10:11

**Sample Name:** TBLANK-1  
**Lab Code:** R1802137-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	03/14/18 03:23	
Toluene	0.20 U	5.0	0.20	1	03/14/18 03:23	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	03/14/18 03:23	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	03/14/18 03:23	
Vinyl Chloride	0.32 U	5.0	0.32	1	03/14/18 03:23	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	03/14/18 03:23	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	03/14/18 03:23	
m,p-Xylenes	0.33 U	5.0	0.33	1	03/14/18 03:23	
n-Butylbenzene	0.21 U	5.0	0.21	1	03/14/18 03:23	
n-Propylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
o-Xylene	0.20 U	5.0	0.20	1	03/14/18 03:23	
sec-Butylbenzene	0.27 U	5.0	0.27	1	03/14/18 03:23	
tert-Butylbenzene	0.20 U	5.0	0.20	1	03/14/18 03:23	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	03/14/18 03:23	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	03/14/18 03:23	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/14/18 03:23	
Dibromofluoromethane	95	89 - 119	03/14/18 03:23	
Toluene-d8	99	87 - 121	03/14/18 03:23	

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5488.D  
 Acq On : 14 Mar 2018 3:46 am  
 Operator : F. NAEGLER  
 Sample : R1802137-001|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Mar 15 17:02:24 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	266520	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	394349	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	350568	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	187178	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	124932	47.78	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	95.56%	
47) surr1,1,2-dichloroetha...	5.120	65	177658	55.67	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.34%	
64) SURR3,Toluene-d8	7.949	98	484124	49.19	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.38%	
69) SURR2,BFB	10.729	95	186964	47.26	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.52%	
Target Compounds						
15) Acetone	2.042	43	6803	3.87	ug/L	93
16) 2-Propanol	2.164	45	1649	4.83	ug/L	96
18) Carbon Disulfide	2.176	76	8121	1.13	ug/L	95

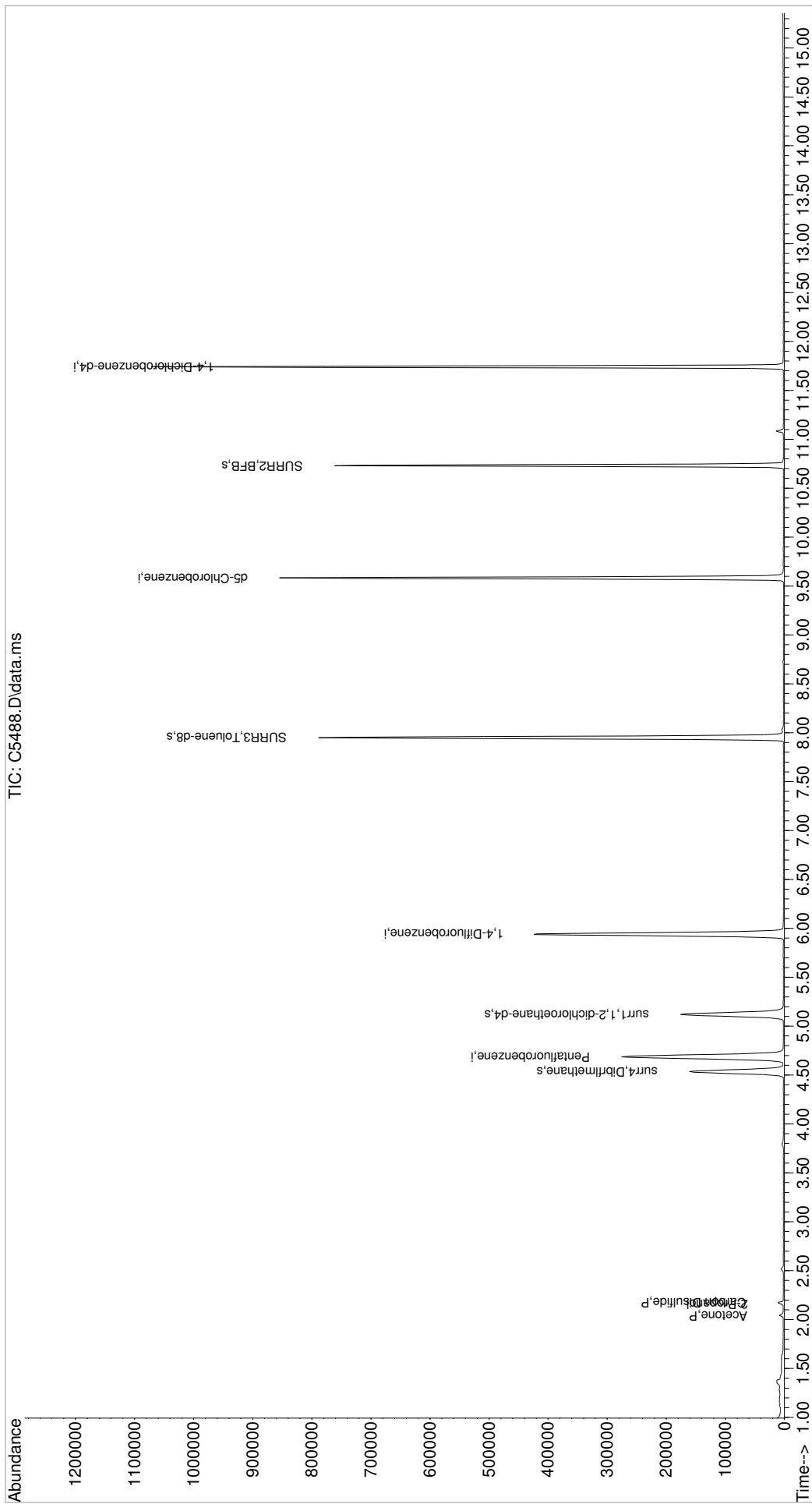
(#) = qualifier out of range (m) = manual integration (+) = signals summed

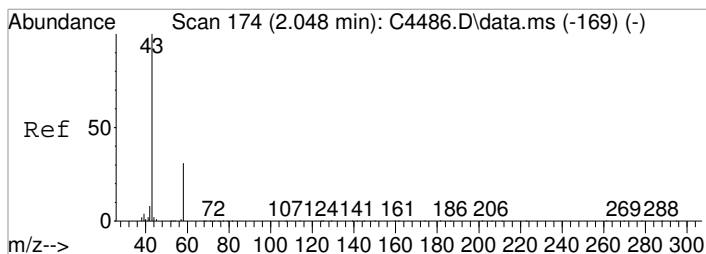
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5488.D  
Acq On : 14 Mar 2018 3:46 am  
Operator : F. NAEGLER  
Sample : R1802137-001|1.0  
Misc : DAY 12666 T4  
ALS Vial : 45 Sample Multiplier: 1

Inst : MSVOA14

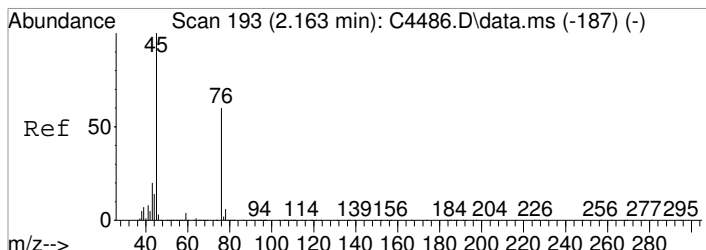
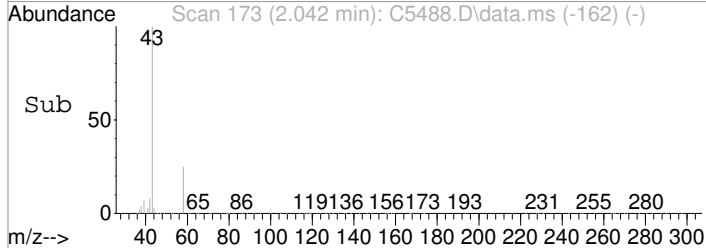
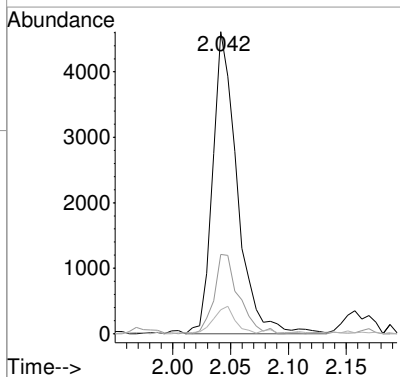
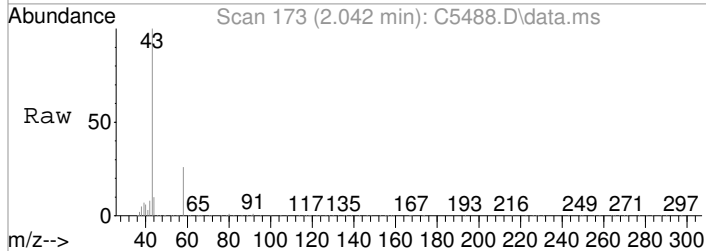
Quant Time: Mar 15 17:02:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





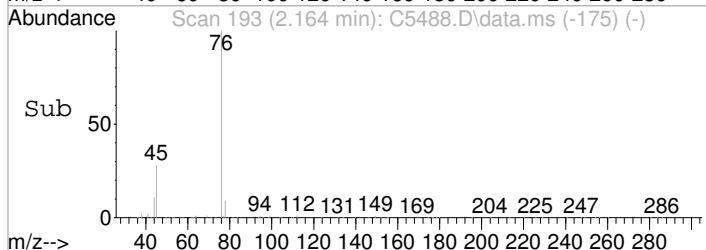
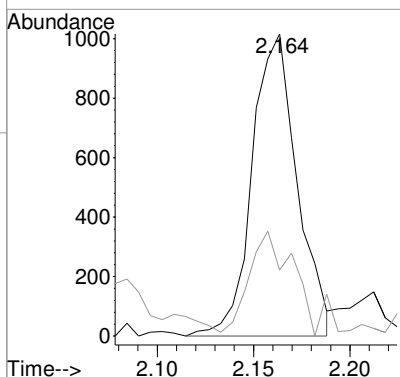
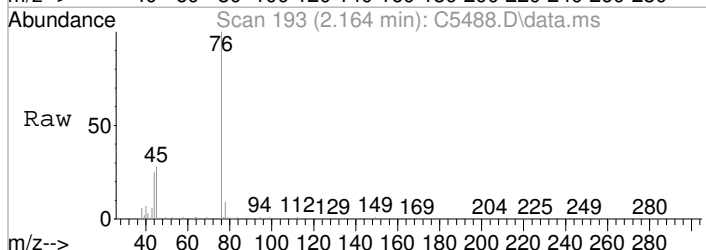
#15  
 Acetone  
 Concen: 3.87 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. -0.006 min  
 Lab File: C5488.D  
 Acq: 14 Mar 2018 3:46 am

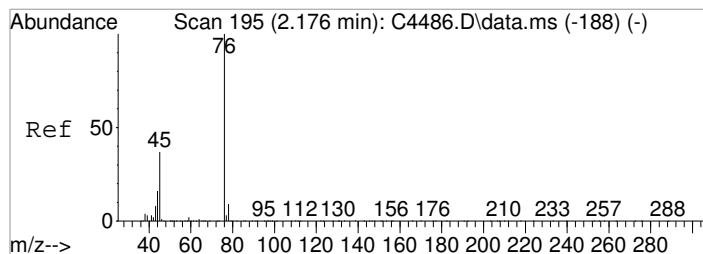
Tgt Ion	Resp	Lower	Upper
43	100		
58	26.3	10.7	50.7
42	7.9	0.0	28.2



#16  
 2-Propanol  
 Concen: 4.83 ug/L  
 RT: 2.164 min Scan# 193  
 Delta R.T. 0.000 min  
 Lab File: C5488.D  
 Acq: 14 Mar 2018 3:46 am

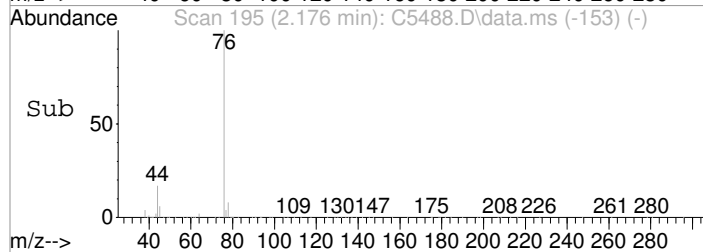
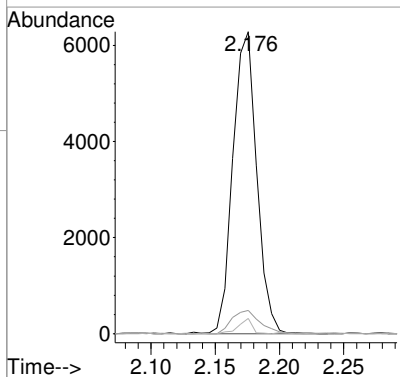
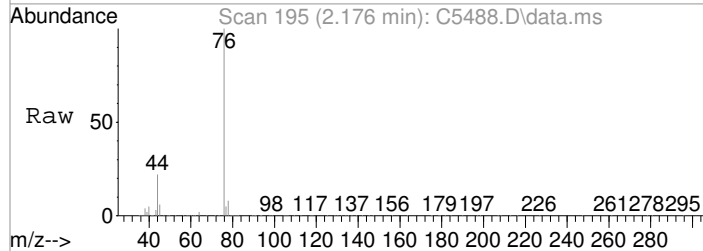
Tgt Ion	Resp	Lower	Upper
45	100		
43	21.9	0.2	40.2





#18  
 Carbon Disulfide  
 Concen: 1.13 ug/L  
 RT: 2.176 min Scan# 195  
 Delta R.T. 0.000 min  
 Lab File: C5488.D  
 Acq: 14 Mar 2018 3:46 am

Tgt Ion	Resp	Lower	Upper
76	100		
78	7.7	0.0	29.5
77	5.0	0.0	22.8



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5489.D  
 Acq On : 14 Mar 2018 4:08 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Mar 15 17:03:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

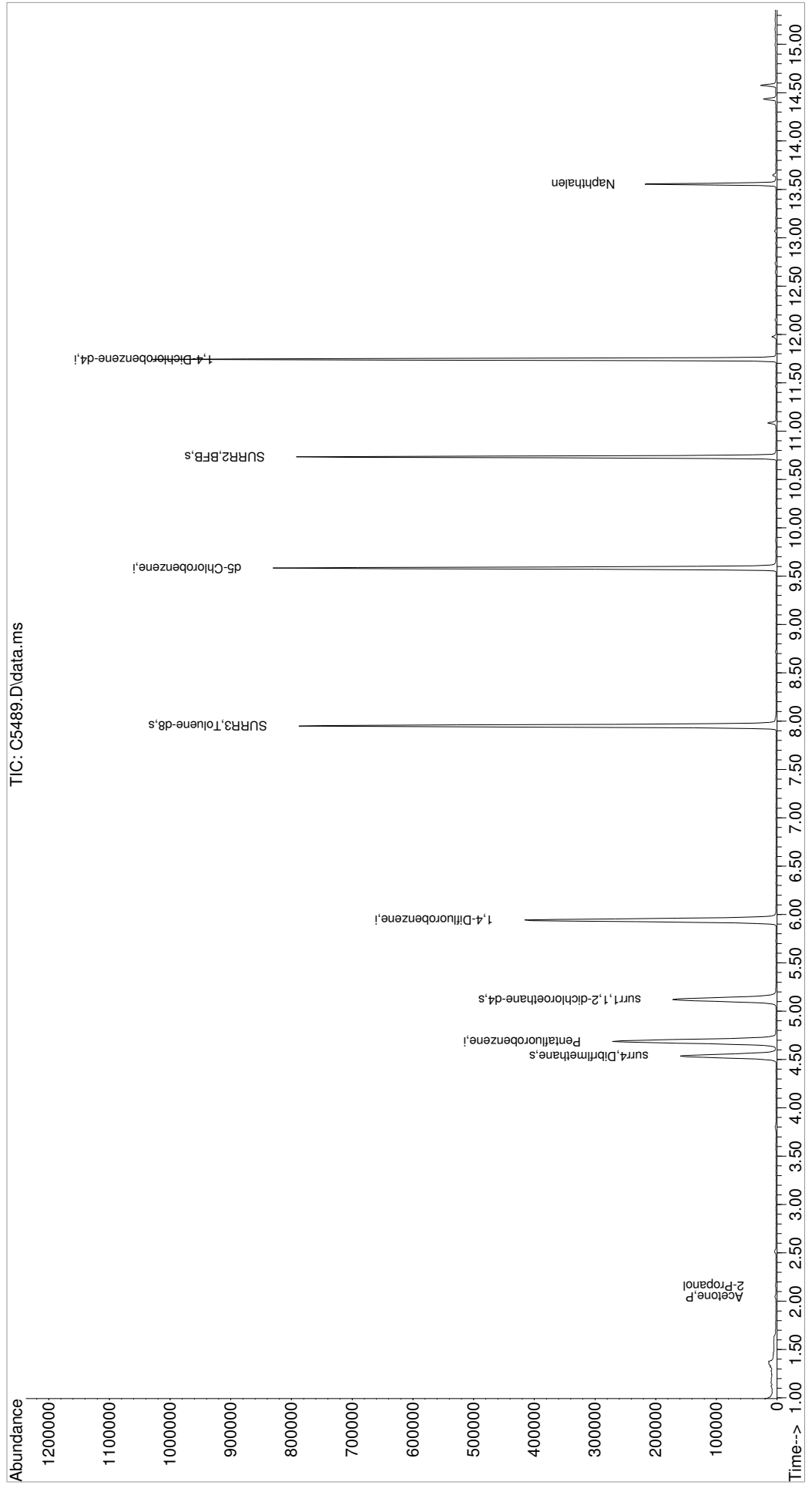
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	257914	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	383602	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	340866	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	183500	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	123371	48.51	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.02%	
47) surr1,1,2-dichloroetha...	5.120	65	176737	56.94	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	113.88%	
64) SURR3,Toluene-d8	7.949	98	478292	49.96	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.92%	
69) SURR2,BFB	10.735	95	187643	48.76	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.52%	
Target Compounds						
15) Acetone	2.048	43	1797	1.06	ug/L	96
16) 2-Propanol	2.163	45	517	1.57	ug/L	86
116) Naphthalen	13.558	128	125789	8.90	ug/L	99

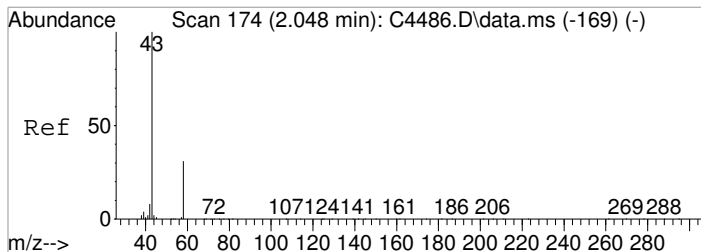
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5489.D  
 Acq On : 14 Mar 2018 4:08 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002|1.0  
 Misc : DAY 12666 T4  
 ALS Vial : 46 Sample Multiplier: 1

Inst : MSVOA14

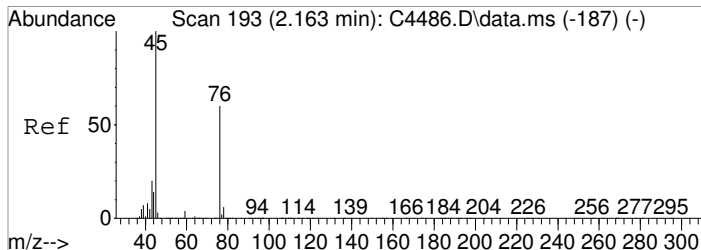
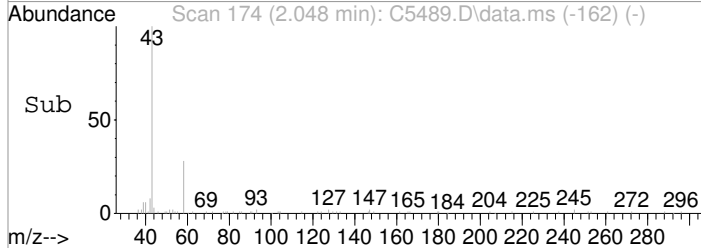
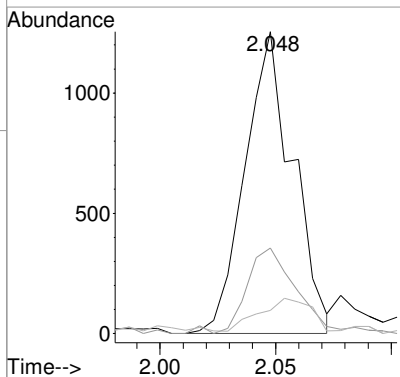
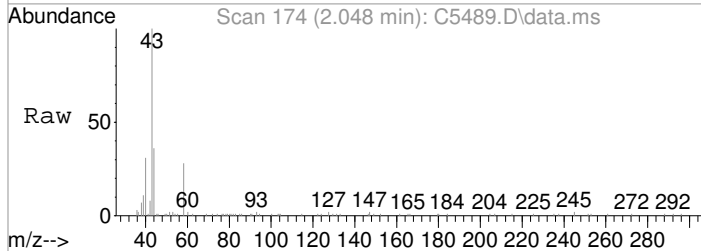
Quant Time: Mar 15 17:03:33 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration





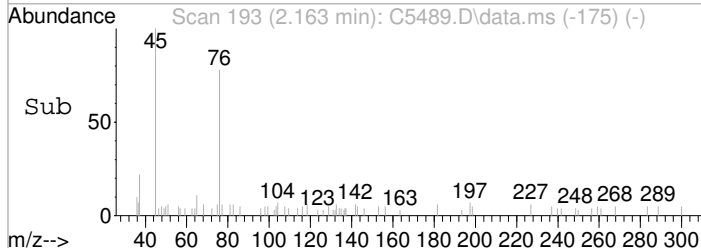
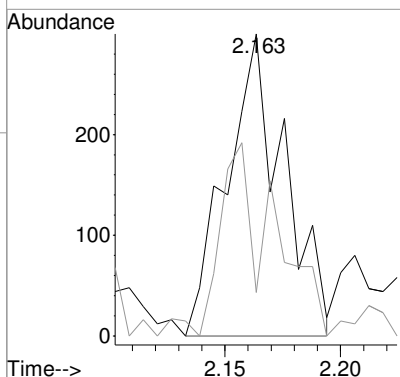
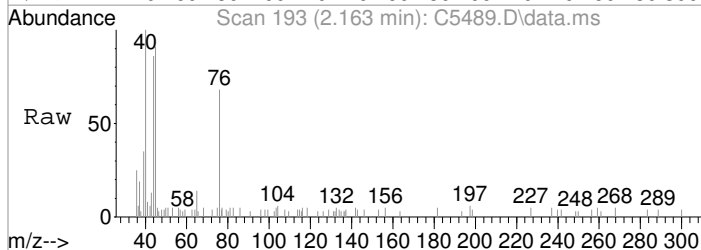
#15  
 Acetone  
 Concen: 1.06 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. -0.000 min  
 Lab File: C5489.D  
 Acq: 14 Mar 2018 4:08 am

Tgt Ion	Resp	Lower	Upper
43	1797		
58	28.4	10.7	50.7
42	7.7	0.0	28.2

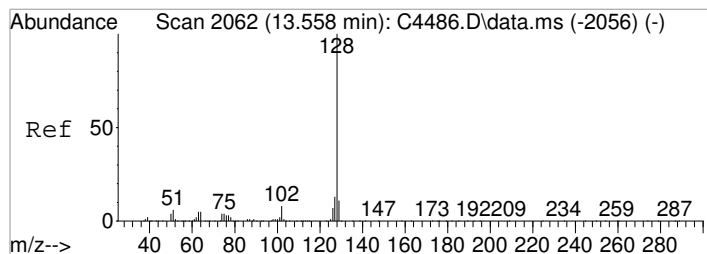


#16  
 2-Propanol  
 Concen: 1.57 ug/L  
 RT: 2.163 min Scan# 193  
 Delta R.T. -0.000 min  
 Lab File: C5489.D  
 Acq: 14 Mar 2018 4:08 am

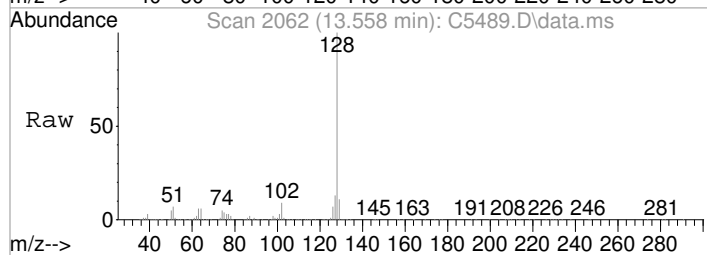
Tgt Ion	Resp	Lower	Upper
45	517		
43	13.6	0.2	40.2



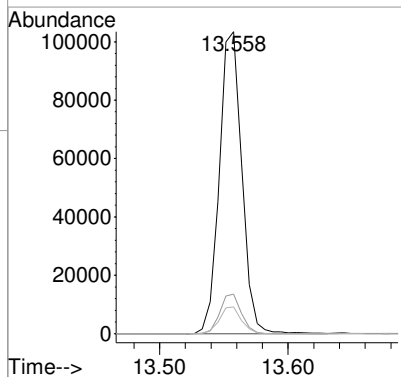
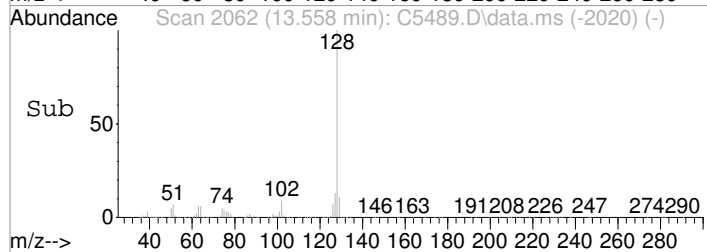




#116  
Naphthalen  
Concen: 8.90 ug/L  
RT: 13.558 min Scan# 2062  
Delta R.T. -0.000 min  
Lab File: C5489.D  
Acq: 14 Mar 2018 4:08 am



Tgt Ion	Resp	Lower	Upper
128	125789		
127	13.1	0.0	33.0
102	8.9	0.0	28.1



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5490.D  
 Acq On : 14 Mar 2018 4:30 am  
 Operator : F. NAEGLER  
 Sample : R1802137-003|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 15 17:05:10 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	268412	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	396339	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	352107	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	190180	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	120636	45.91	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	91.82%	
47) surr1,1,2-dichloroetha...	5.120	65	177117	55.23	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.46%	
64) SURR3,Toluene-d8	7.949	98	469422	47.46	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	94.92%	
69) SURR2,BFB	10.729	95	185699	46.71	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	93.42%	
Target Compounds						
5) Bromomethane	1.414	94	267	Below Cal	Qvalue #	48
15) Acetone	2.060	43	2257	1.28 ug/L		85

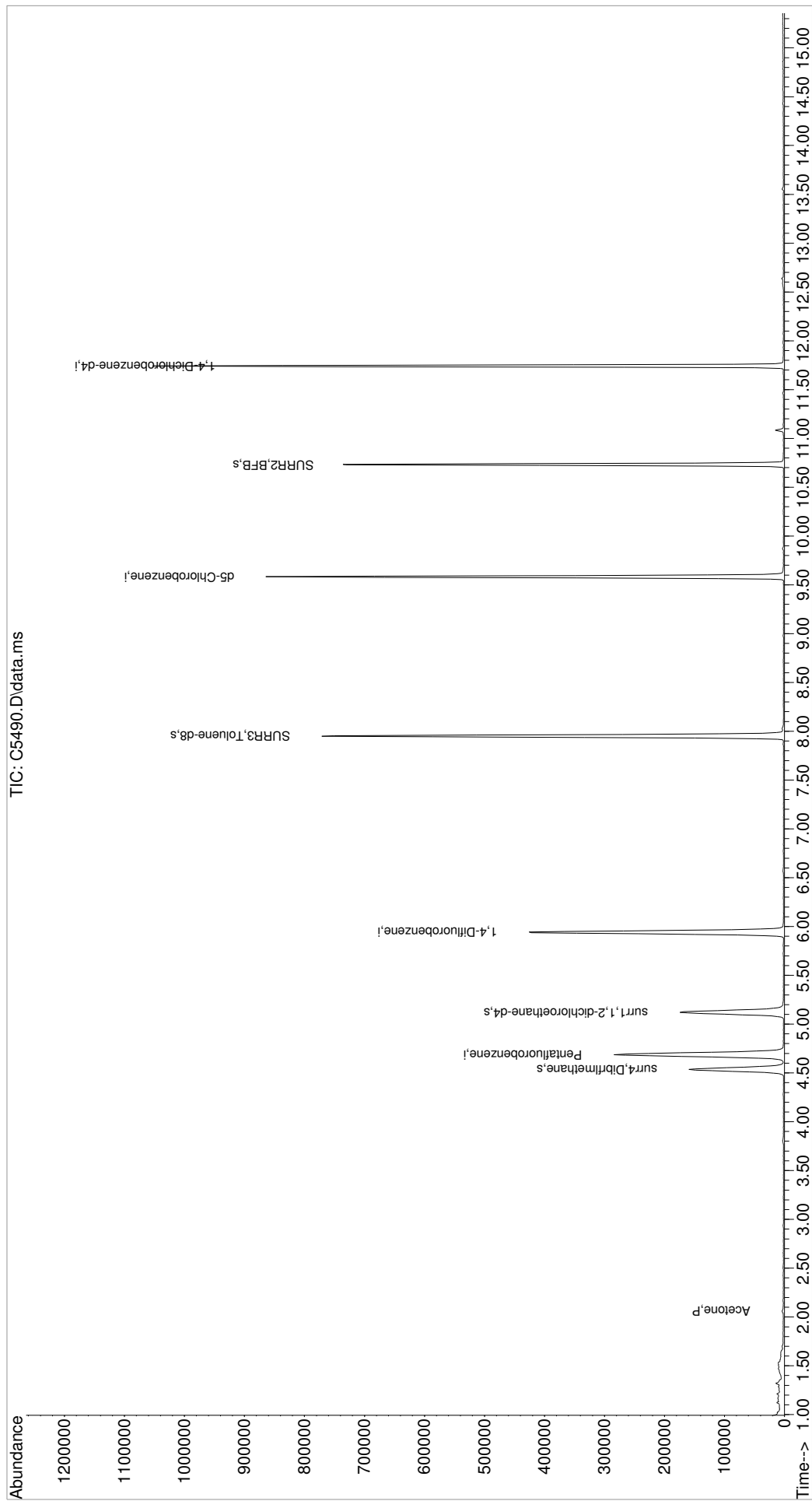
(#) = qualifier out of range (m) = manual integration (+) = signals summed

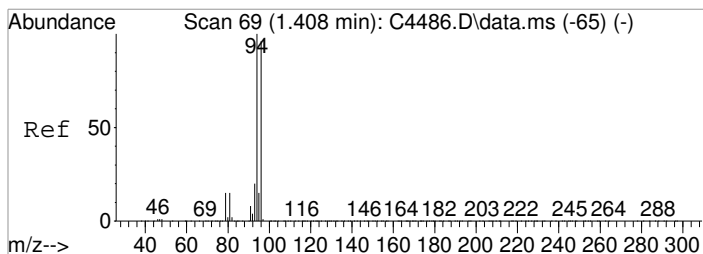
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5490.D  
Acq On : 14 Mar 2018 4:30 am  
Operator : F. NAEGLER  
Sample : R1802137-003|1.0  
Misc : DAY 12666 T4  
ALS Vial : 47 Sample Multiplier: 1

Inst : MSVOA14

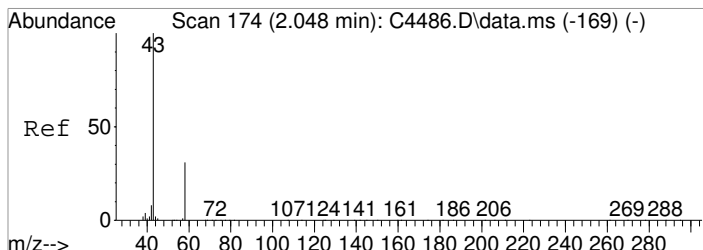
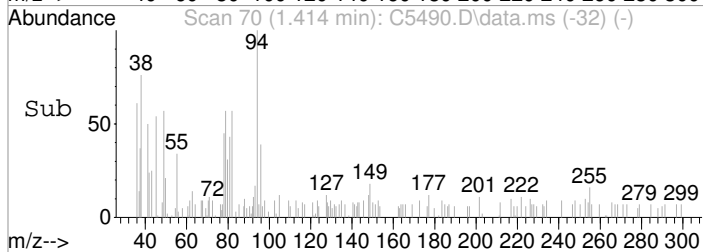
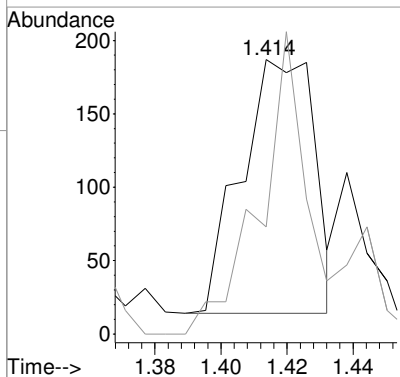
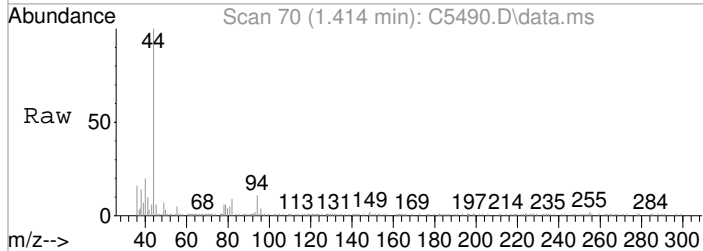
Quant Time: Mar 15 17:05:10 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





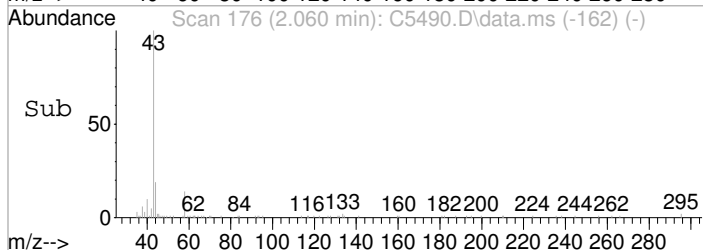
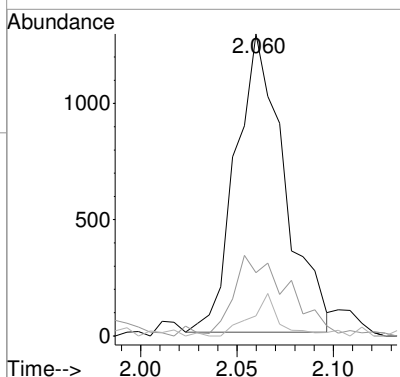
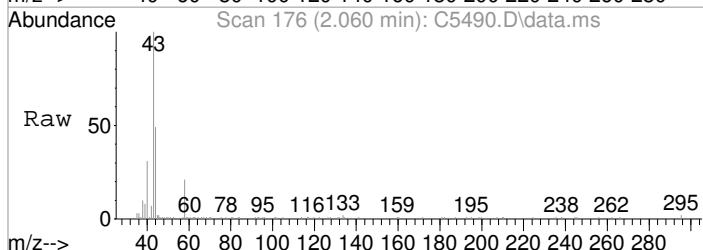
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.414 min Scan# 70  
 Delta R.T. 0.007 min  
 Lab File: C5490.D  
 Acq: 14 Mar 2018 4:30 am

Tgt Ion	Resp	Lower	Upper
94	100		
96	45.5	75.8	115.8#



#15  
 Acetone  
 Concen: 1.28 ug/L  
 RT: 2.060 min Scan# 176  
 Delta R.T. 0.012 min  
 Lab File: C5490.D  
 Acq: 14 Mar 2018 4:30 am

Tgt Ion	Resp	Lower	Upper
43	100		
58	20.9	10.7	50.7
42	6.6	0.0	28.2



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5491.D  
 Acq On : 14 Mar 2018 4:52 am  
 Operator : F. NAEGLER  
 Sample : R1802137-004|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 15 17:06:06 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	263894	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	388005	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	346263	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	187502	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	118673	46.13	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	92.26%	
47) surr1,1,2-dichloroetha...	5.120	65	174061	55.44	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.88%	
64) SURR3,Toluene-d8	7.949	98	467623	48.29	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.58%	
69) SURR2,BFB	10.729	95	183735	47.21	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.42%	
Target Compounds						
15) Acetone	2.048	43	3149	1.81	ug/L	95
16) 2-Propanol	2.157	45	1859	5.50	ug/L	98
18) Carbon Disulfide	2.176	76	1730	0.24	ug/L	93

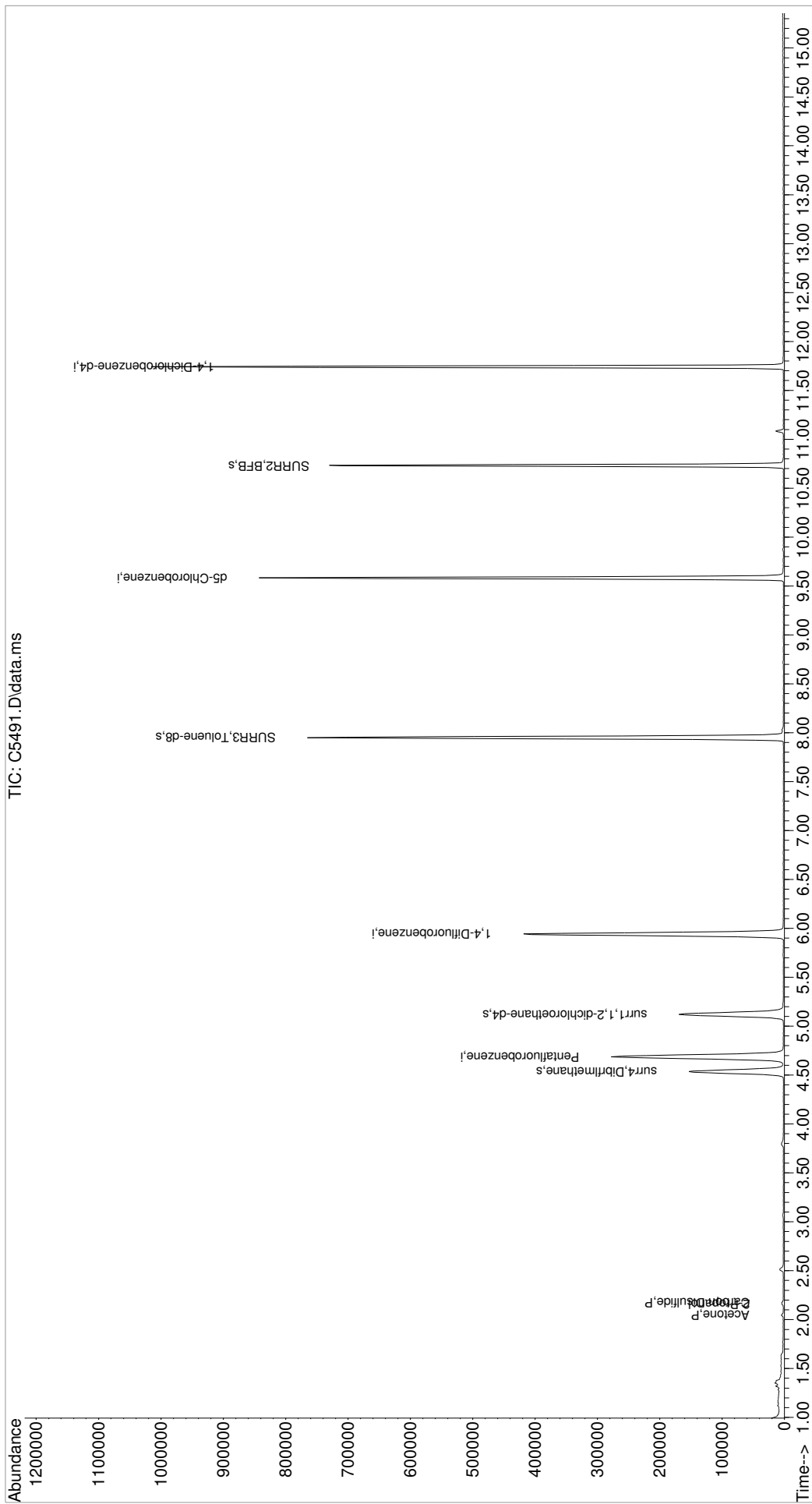
(#) = qualifier out of range (m) = manual integration (+) = signals summed

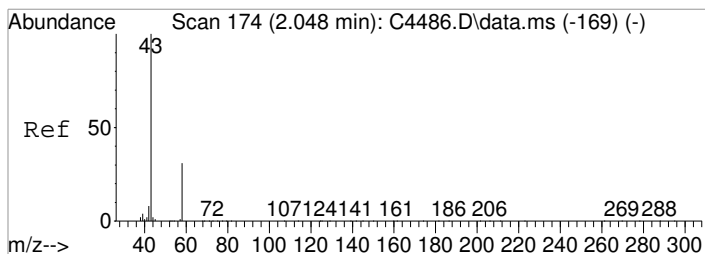
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5491.D  
Acq On : 14 Mar 2018 4:52 am  
Operator : F. NAEGLER  
Sample : R1802137-004|1.0  
Misc : DAY 12666 T4  
ALS Vial : 48 Sample Multiplier: 1

Inst : MSVOA14

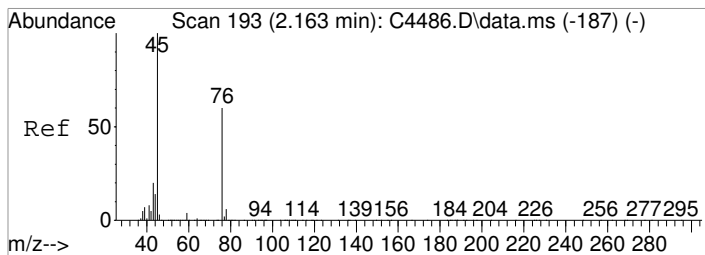
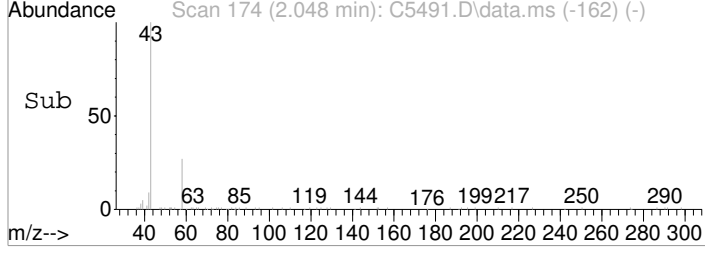
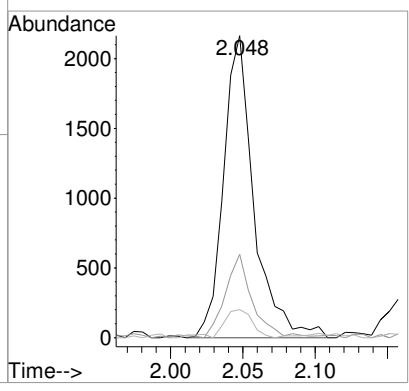
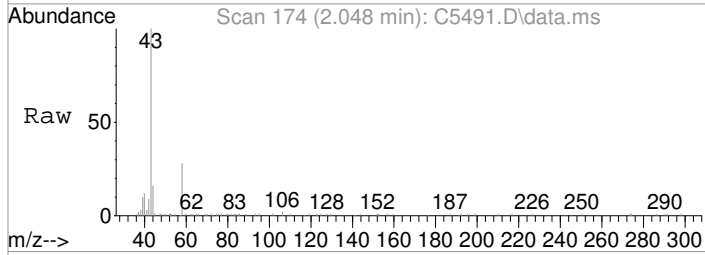
Quant Time: Mar 15 17:06:06 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





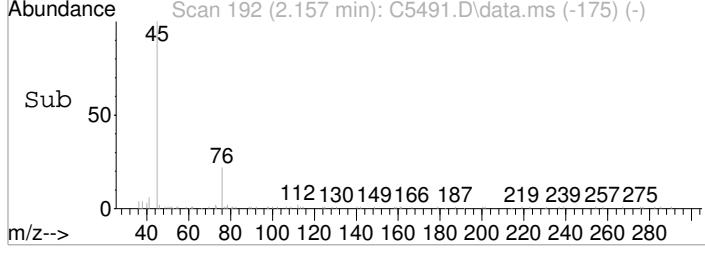
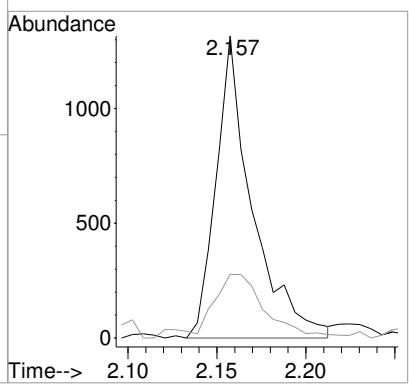
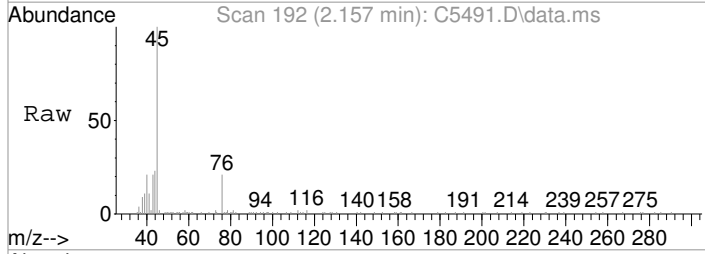
#15  
 Acetone  
 Concen: 1.81 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. -0.000 min  
 Lab File: C5491.D  
 Acq: 14 Mar 2018 4:52 am

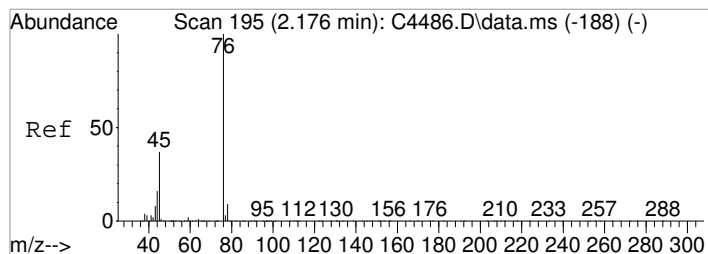
Tgt Ion	Resp	Lower	Upper
43	3149		
58	27.6	10.7	50.7
42	9.3	0.0	28.2



#16  
 2-Propanol  
 Concen: 5.50 ug/L  
 RT: 2.157 min Scan# 192  
 Delta R.T. -0.006 min  
 Lab File: C5491.D  
 Acq: 14 Mar 2018 4:52 am

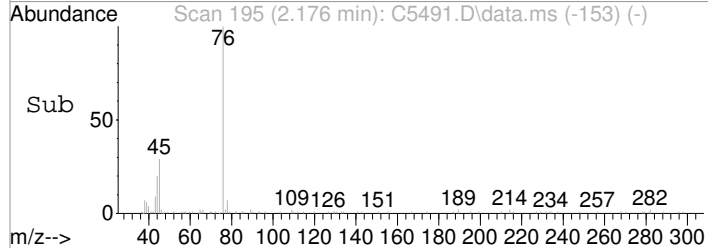
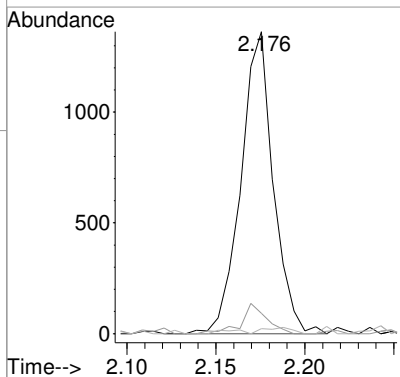
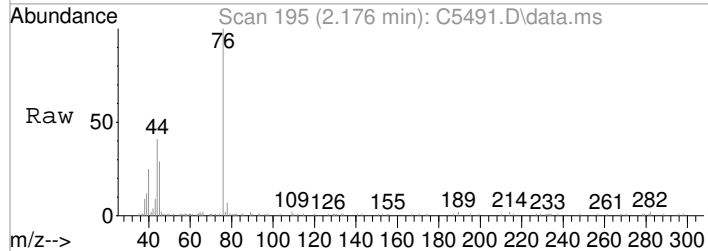
Tgt Ion	Resp	Lower	Upper
45	1859		
43	21.0	0.2	40.2





#18  
Carbon Disulfide  
Concen: 0.24 ug/L  
RT: 2.176 min Scan# 195  
Delta R.T. -0.000 min  
Lab File: C5491.D  
Acq: 14 Mar 2018 4:52 am

Tgt Ion	Resp	Lower	Upper
76	1730		
78	6.7	0.0	29.5
77	1.6	0.0	22.8





Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5492.D  
 Acq On : 14 Mar 2018 5:15 am  
 Operator : F. NAEGLER  
 Sample : R1802137-005|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 15 17:07:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	264236	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	388816	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	341807	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	187041	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	121826	47.26	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	94.52%	
47) surr1,1,2-dichloroetha...	5.120	65	175534	55.79	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.58%	
64) SURR3,Toluene-d8	7.949	98	470968	48.53	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.06%	
69) SURR2,BFB	10.729	95	185329	47.52	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.04%	
Target Compounds						
15) Acetone	2.042	43	3489	2.00	ug/L	88
16) 2-Propanol	2.157	45	753	2.23	ug/L	82
39) Chloroform	4.279	83	7791	1.58	ug/L	97

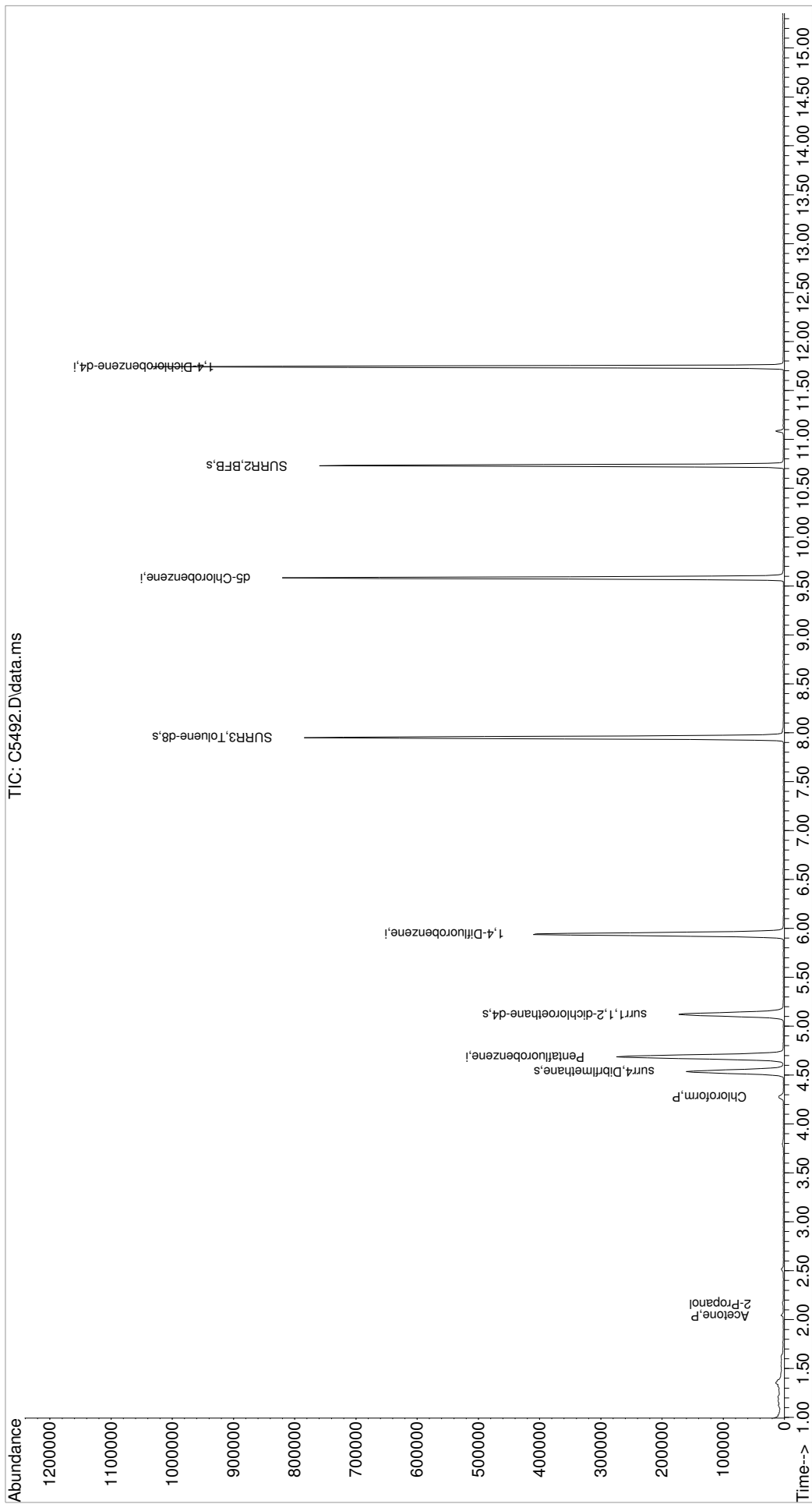
(#) = qualifier out of range (m) = manual integration (+) = signals summed

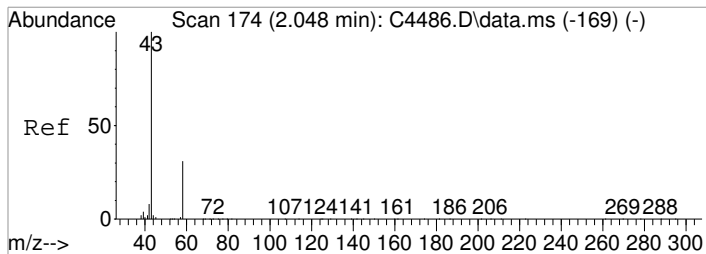
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5492.D  
Acq On : 14 Mar 2018 5:15 am  
Operator : F. NAEGLER  
Sample : R1802137-005|1.0  
Misc : DAY 12666 T4  
ALS Vial : 49 Sample Multiplier: 1

Inst : MSVOA14

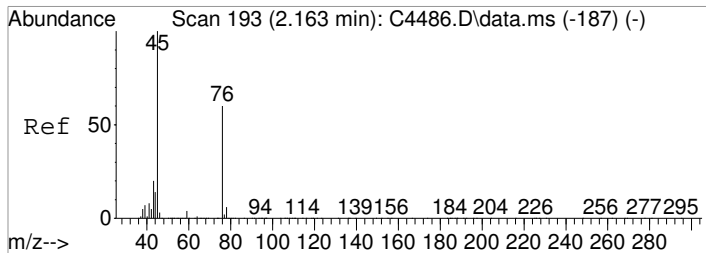
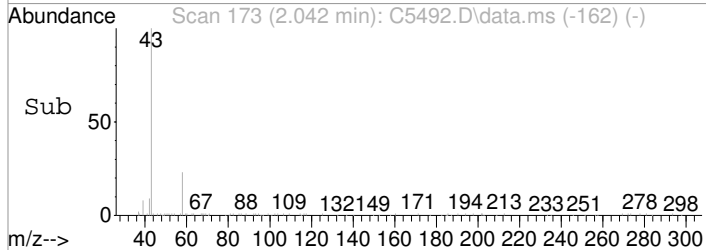
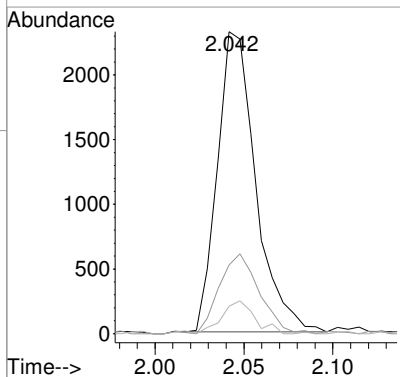
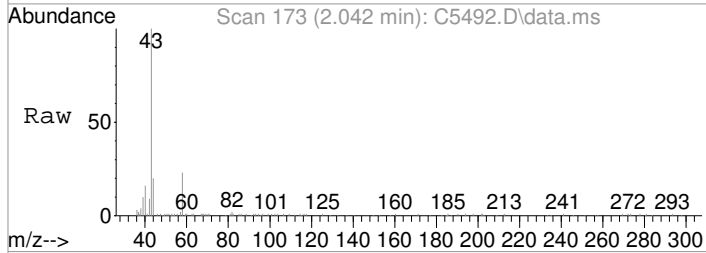
Quant Time: Mar 15 17:07:52 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





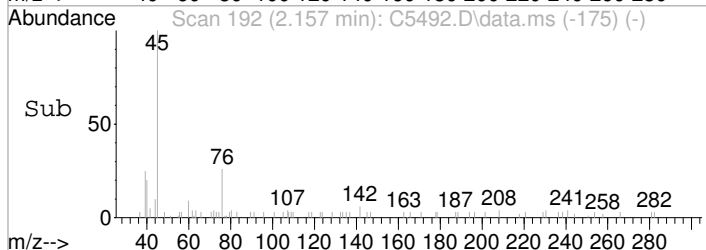
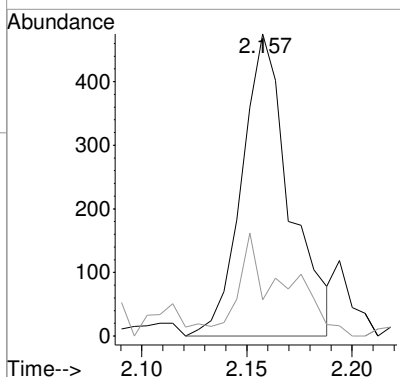
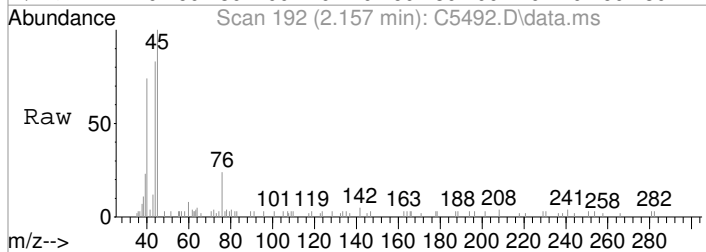
#15  
 Acetone  
 Concen: 2.00 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. -0.006 min  
 Lab File: C5492.D  
 Acq: 14 Mar 2018 5:15 am

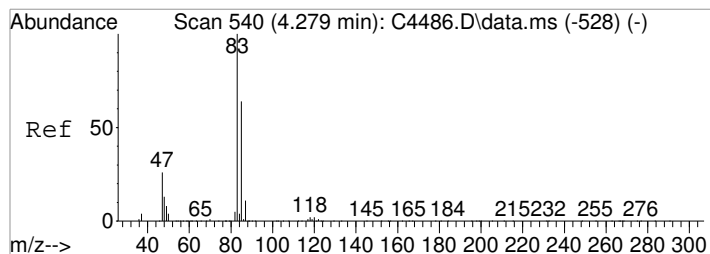
Tgt Ion	Resp	Lower	Upper
43	100		
58	22.8	10.7	50.7
42	9.1	0.0	28.2



#16  
 2-Propanol  
 Concen: 2.23 ug/L  
 RT: 2.157 min Scan# 192  
 Delta R.T. -0.006 min  
 Lab File: C5492.D  
 Acq: 14 Mar 2018 5:15 am

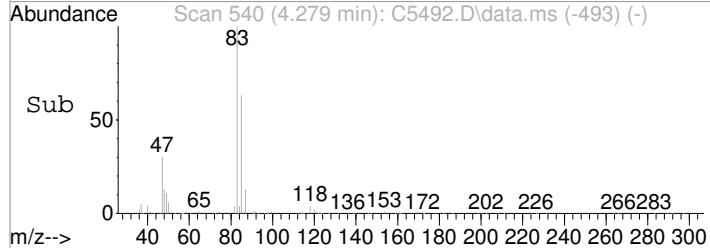
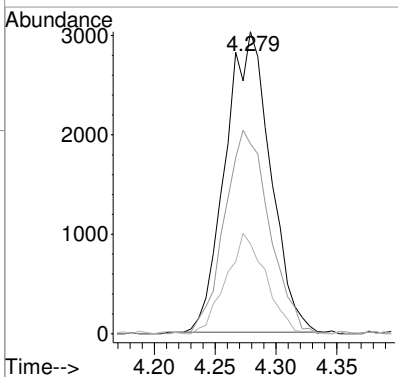
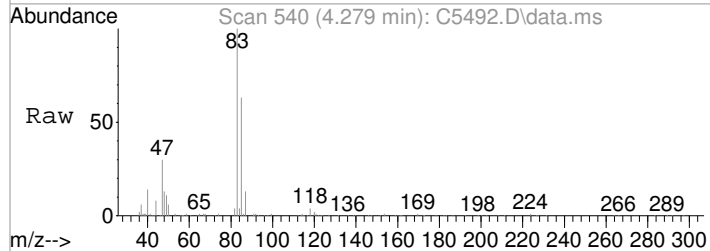
Tgt Ion	Resp	Lower	Upper
45	100		
43	12.0	0.2	40.2





#39  
 Chloroform  
 Concen: 1.58 ug/L  
 RT: 4.279 min Scan# 540  
 Delta R.T. 0.000 min  
 Lab File: C5492.D  
 Acq: 14 Mar 2018 5:15 am

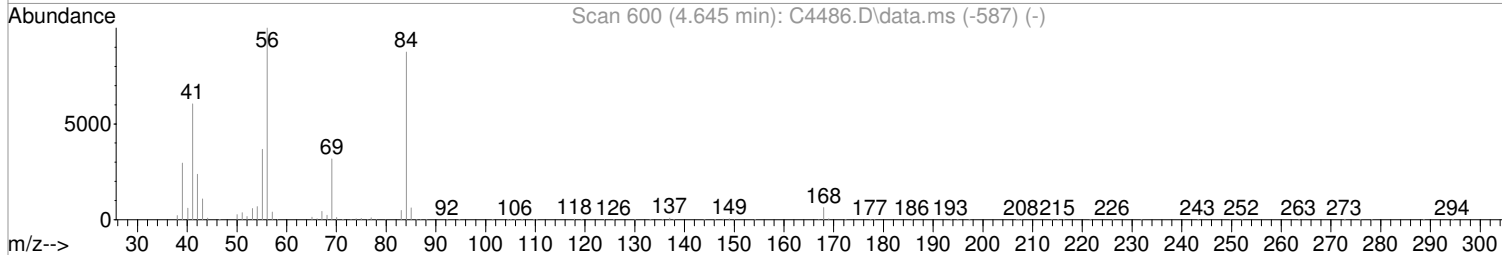
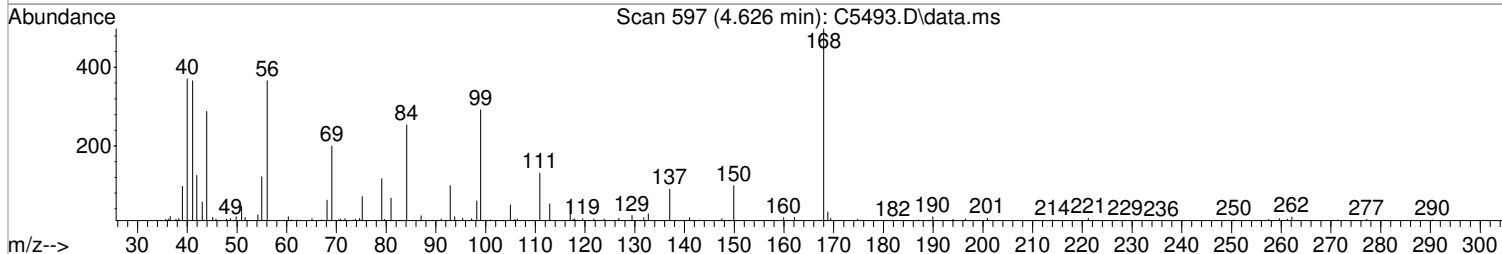
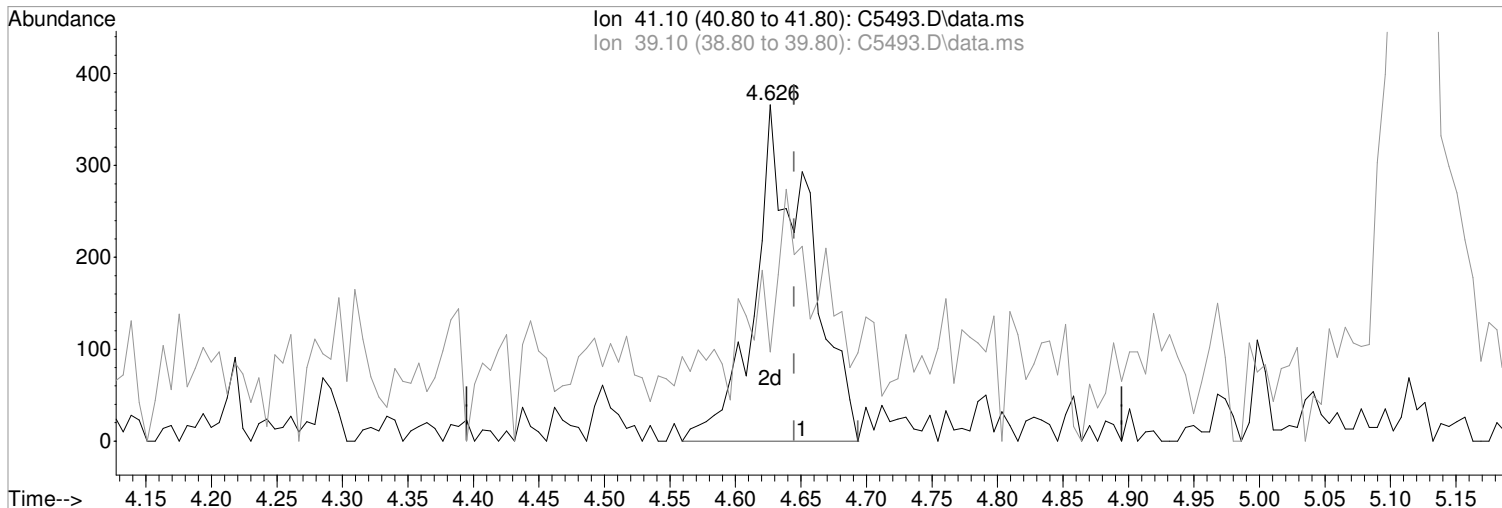
Tgt Ion	Resp	Lower	Upper
83	100		
85	62.9	43.8	83.8
47	29.8	5.7	45.7



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5493.D  
Acq On : 14 Mar 2018 5:37 am  
Operator : F. NAEGLER  
Sample : R1802137-006|1.0  
Misc : DAY 12666 T4  
ALS Vial : 50 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 10:05:42 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)

4.626min (-0.018) 0.38 ug/L m  
response 1049

Ion	Exp%	Act%
41.10	100	100
39.10	49.20	26.50#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

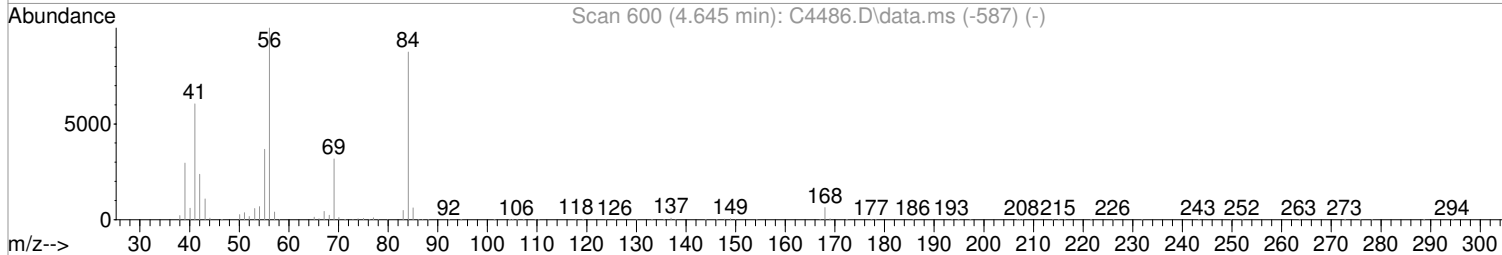
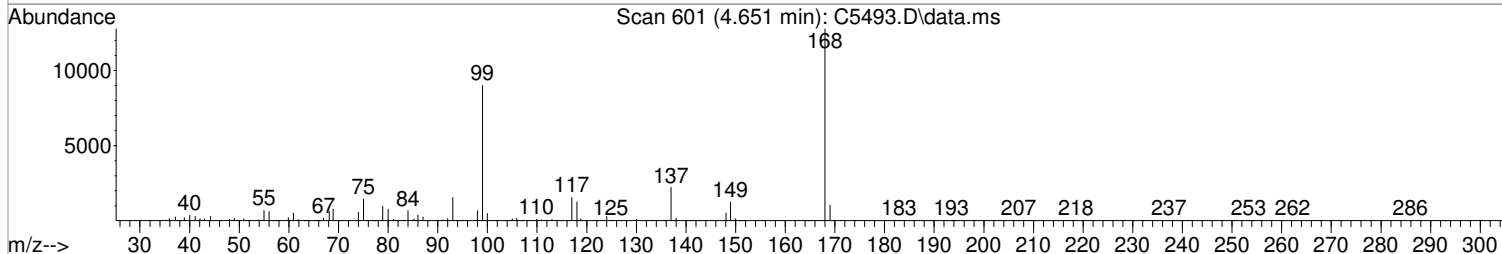
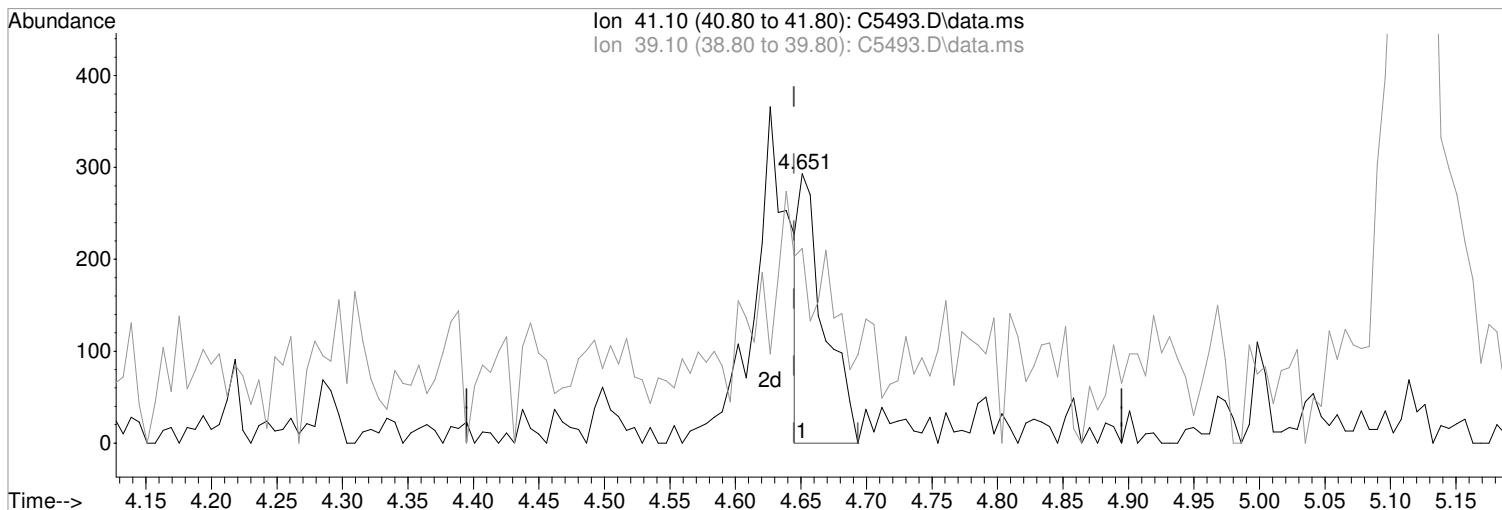
Poor integration.

03/15/18

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5493.D  
Acq On : 14 Mar 2018 5:37 am  
Operator : F. NAEGLER  
Sample : R1802137-006|1.0  
Misc : DAY 12666 T4  
ALS Vial : 50 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 10:05:42 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



TIC: C5493.D\data.ms

(43) Cyclohexane (P)  
4.651min (+0.006) 0.14 ug/L  
response 387

Manual Integration:  
Before

Ion	Exp%	Act%
41.10	100	100
39.10	49.20	72.35#
0.00	0.00	0.00
0.00	0.00	0.00

03/15/18

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5493.D  
 Acq On : 14 Mar 2018 5:37 am  
 Operator : F. NAEGLER  
 Sample : R1802137-006|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 15 17:09:35 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

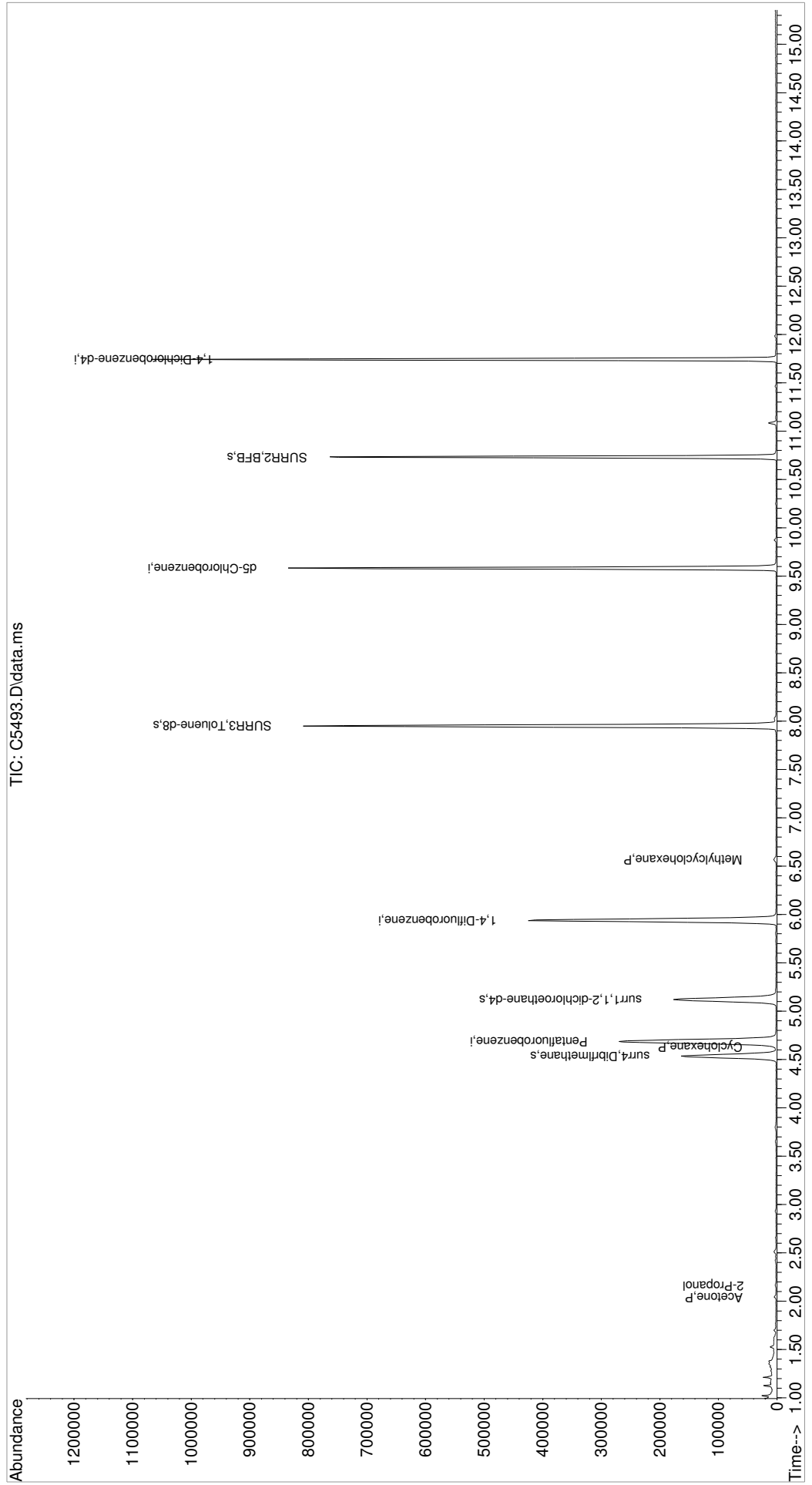
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	264868	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.937	114	389274	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	348580	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	187958	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	124364	48.18	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	96.36%		
47) surr1,1,2-dichloroetha...	5.120	65	179701	57.05	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	114.10%		
64) SURR3,Toluene-d8	7.949	98	485864	50.01	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.02%		
69) SURR2,BFB	10.729	95	191922	49.15	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.30%		
Target Compounds						
15) Acetone	2.042	43	2891	1.66	ug/L	93
16) 2-Propanol	2.157	45	1114	3.29	ug/L	75
43) Cyclohexane	4.626	41	1049m	0.38	ug/L	
54) Methylcyclohexane	6.571	55	1539	0.43	ug/L #	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

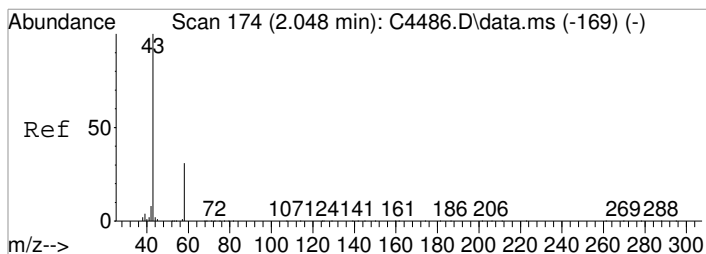
Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5493.D  
 Acq On : 14 Mar 2018 5:37 am  
 Operator : F. NAEGLER  
 Sample : R1802137-006|1.0  
 Misc : DAY 12666 T4  
 ALS Vial : 50 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 15 17:09:35 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

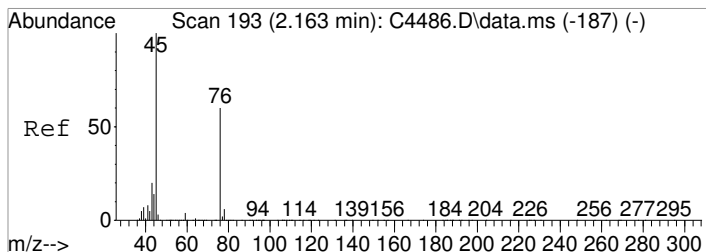
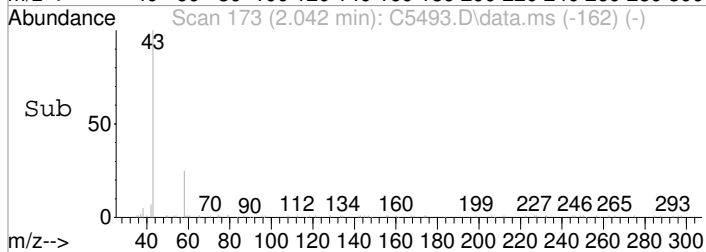
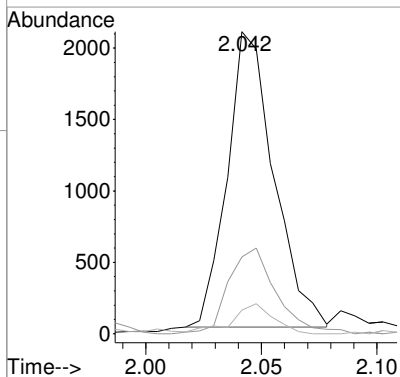
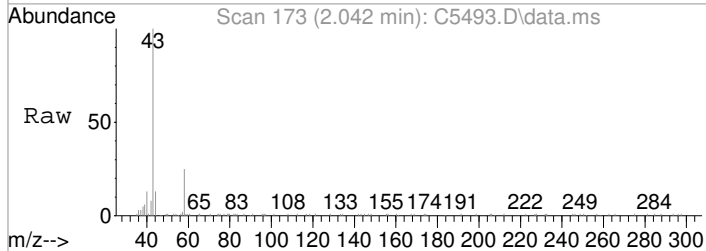






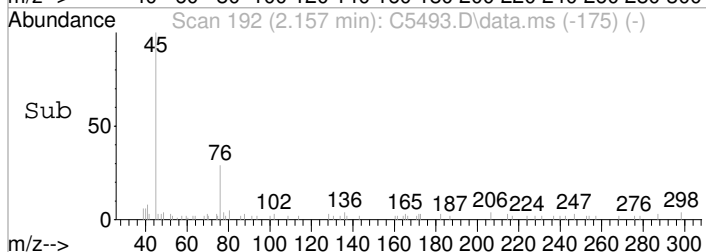
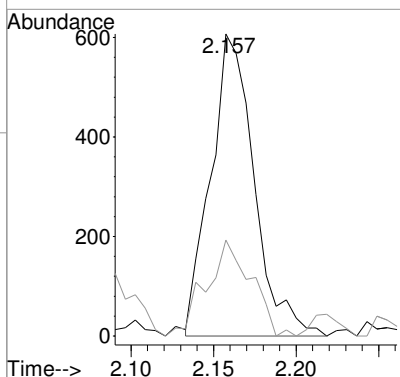
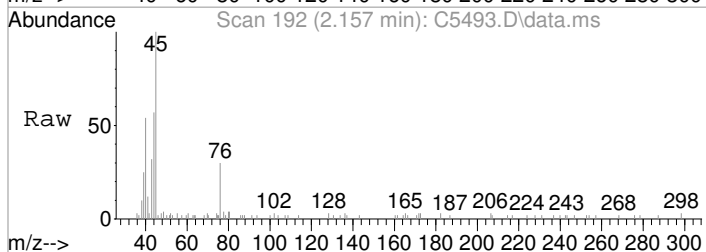
#15  
 Acetone  
 Concen: 1.66 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. -0.006 min  
 Lab File: C5493.D  
 Acq: 14 Mar 2018 5:37 am

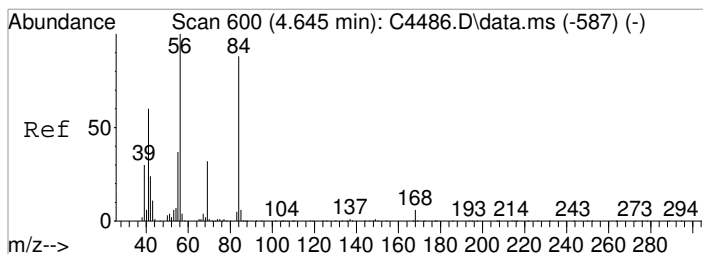
Tgt Ion	Resp	Lower	Upper
43	100		
58	26.2	10.7	50.7
42	7.8	0.0	28.2



#16  
 2-Propanol  
 Concen: 3.29 ug/L  
 RT: 2.157 min Scan# 192  
 Delta R.T. -0.006 min  
 Lab File: C5493.D  
 Acq: 14 Mar 2018 5:37 am

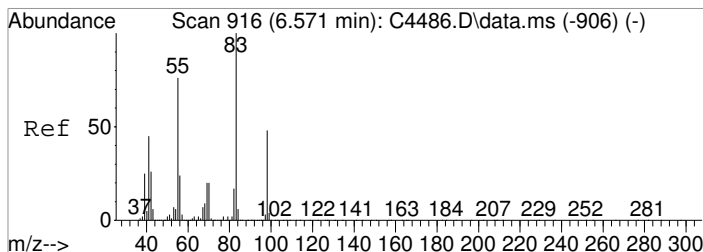
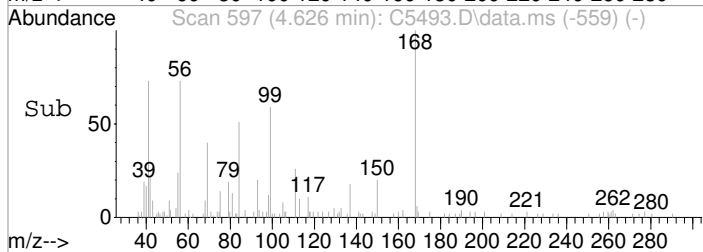
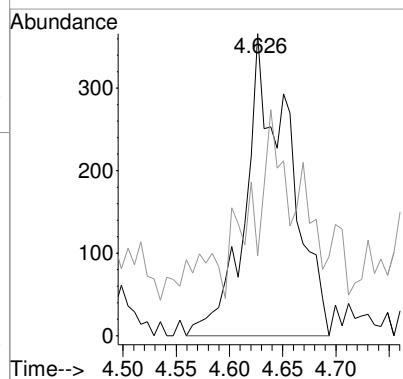
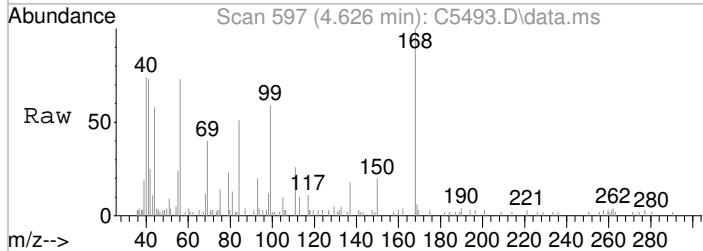
Tgt Ion	Resp	Lower	Upper
45	100		
43	31.8	0.2	40.2





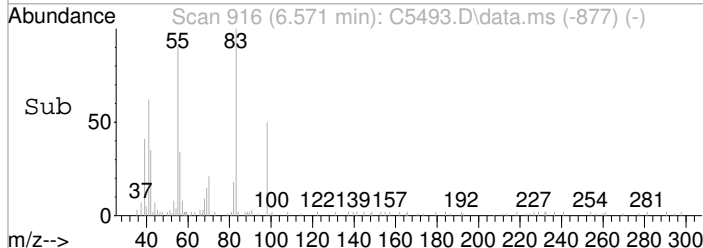
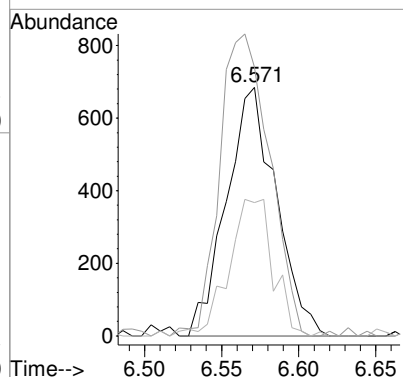
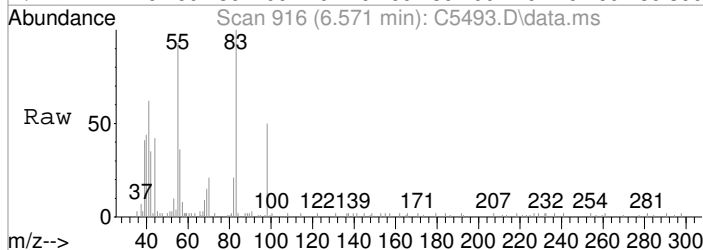
#43  
 Cyclohexane  
 Concen: 0.38 ug/L m  
 RT: 4.626 min Scan# 597  
 Delta R.T. -0.018 min  
 Lab File: C5493.D  
 Acq: 14 Mar 2018 5:37 am

Tgt Ion	Resp	Lower	Upper
41	1049		
39	26.5	29.2	69.2#



#54  
 Methylcyclohexane  
 Concen: 0.43 ug/L  
 RT: 6.571 min Scan# 916  
 Delta R.T. 0.000 min  
 Lab File: C5493.D  
 Acq: 14 Mar 2018 5:37 am

Tgt Ion	Resp	Lower	Upper
55	1539		
83	108.0	110.9	150.9#
98	53.6	42.5	82.5



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5494.D  
 Acq On : 14 Mar 2018 5:59 am  
 Operator : F. NAEGLER  
 Sample : R1802137-007|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 15 17:10:54 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	266039	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	393983	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	350060	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	190037	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	123336	47.21	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	94.42%	
47) surr1,1,2-dichloroetha...	5.120	65	178066	55.85	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.70%	
64) SURR3,Toluene-d8	7.949	98	480425	48.86	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.72%	
69) SURR2,BFB	10.735	95	190925	48.31	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.62%	
Target Compounds						
15) Acetone	2.042	43	6924	3.95	ug/L	Qvalue 89
16) 2-Propanol	2.164	45	2251	6.61	ug/L	78
18) Carbon Disulfide	2.170	76	3315	0.46	ug/L	98
29) DIPE	3.182	45	2425	0.26	ug/L	85
43) Cyclohexane	4.639	41	2190	0.79	ug/L	93
54) Methylcyclohexane	6.559	55	984	0.27	ug/L #	46

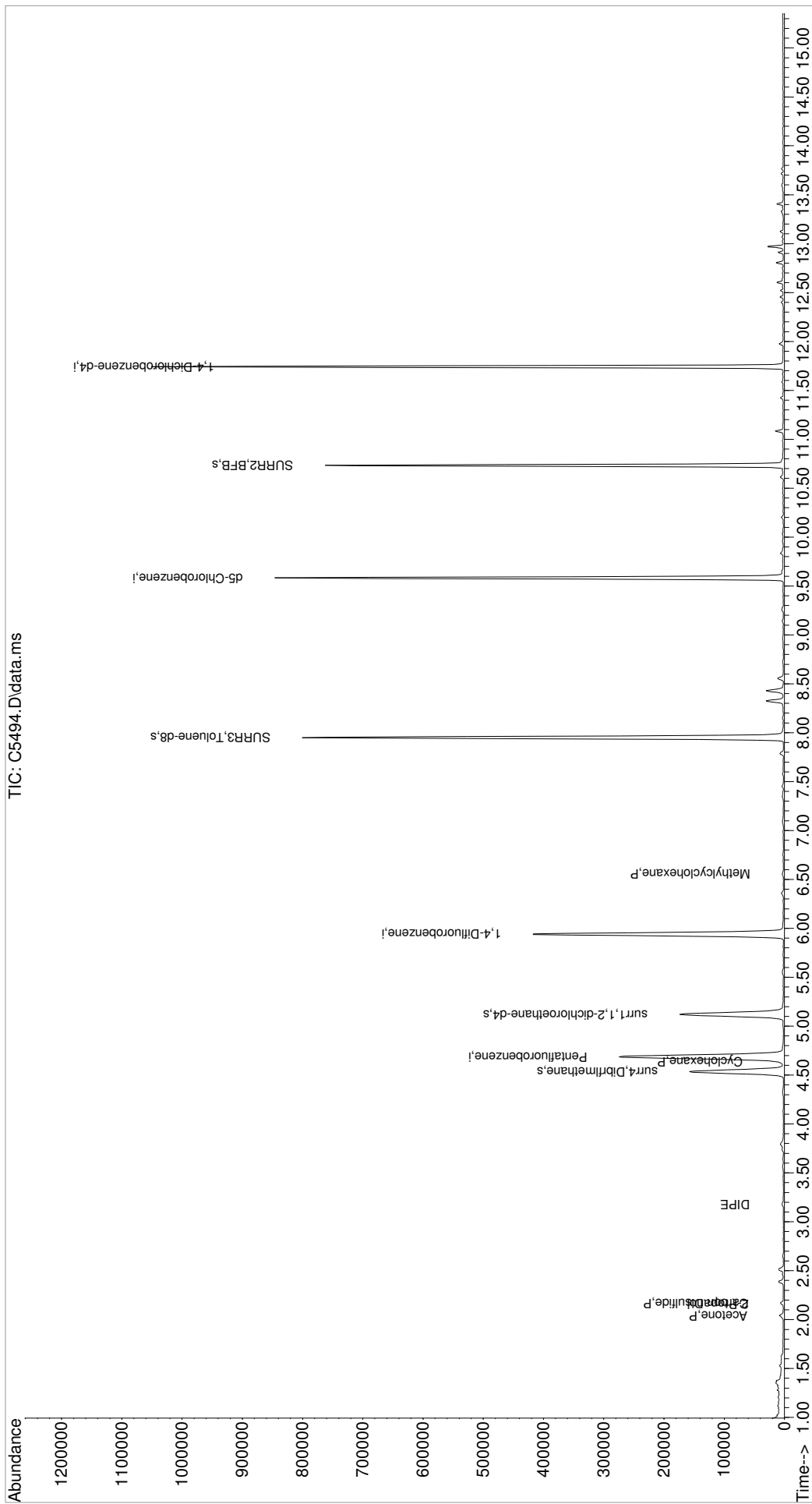
(#) = qualifier out of range (m) = manual integration (+) = signals summed

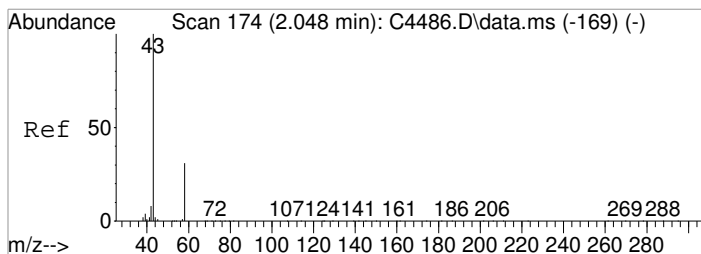
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5494.D  
Acq On : 14 Mar 2018 5:59 am  
Operator : F. NAEGLER  
Sample : R1802137-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 51 Sample Multiplier: 1

Inst : MSVOA14

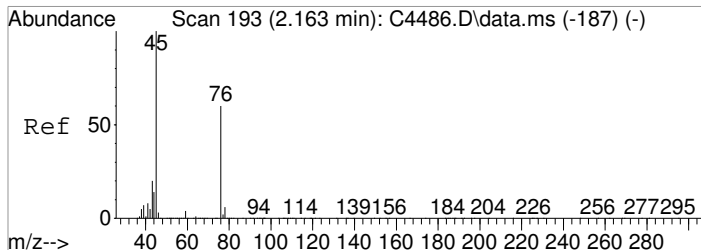
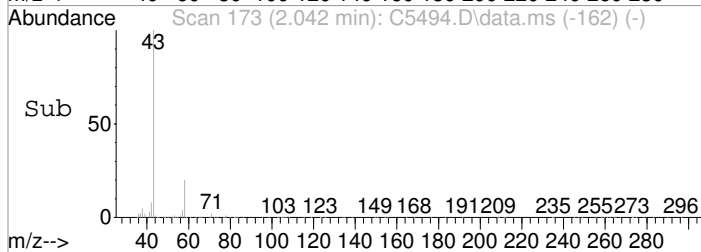
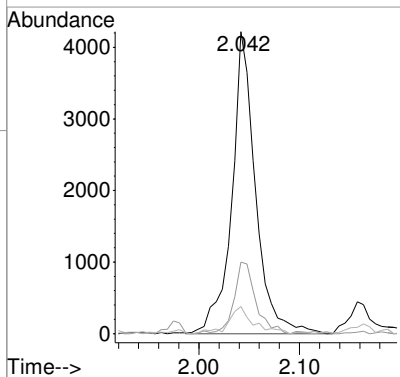
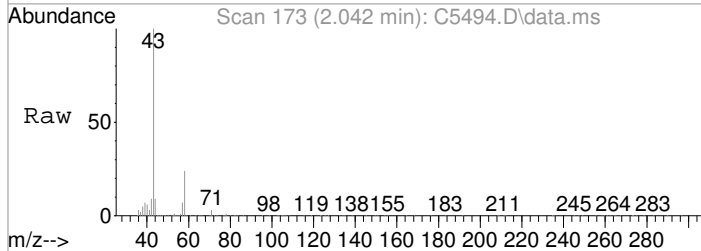
Quant Time: Mar 15 17:10:54 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





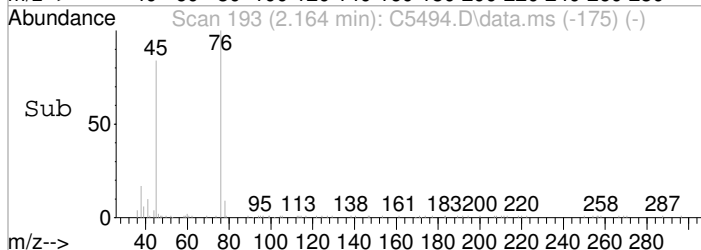
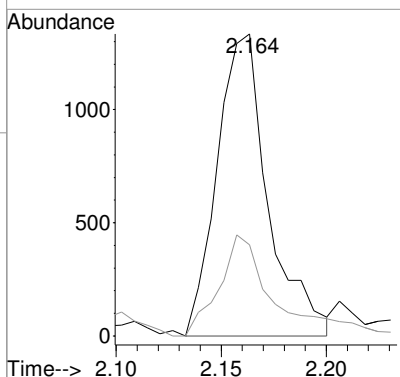
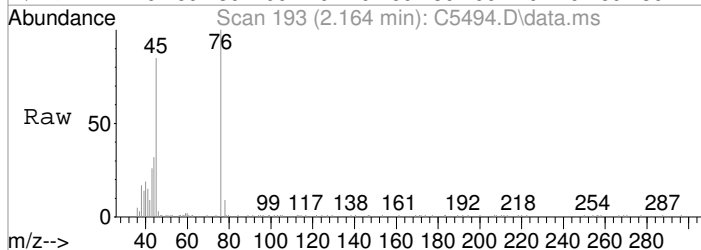
#15  
 Acetone  
 Concen: 3.95 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. -0.006 min  
 Lab File: C5494.D  
 Acq: 14 Mar 2018 5:59 am

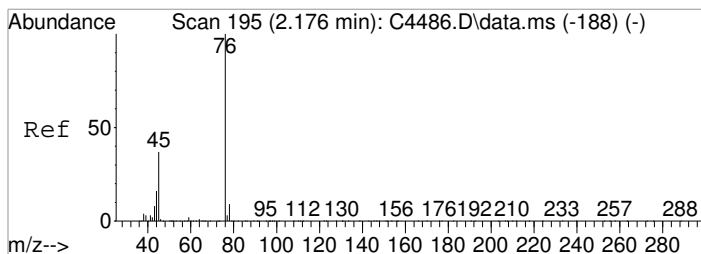
Tgt Ion	Resp	Lower	Upper
43	6924		
58	23.7	10.7	50.7
42	9.0	0.0	28.2



#16  
 2-Propanol  
 Concen: 6.61 ug/L  
 RT: 2.164 min Scan# 193  
 Delta R.T. 0.000 min  
 Lab File: C5494.D  
 Acq: 14 Mar 2018 5:59 am

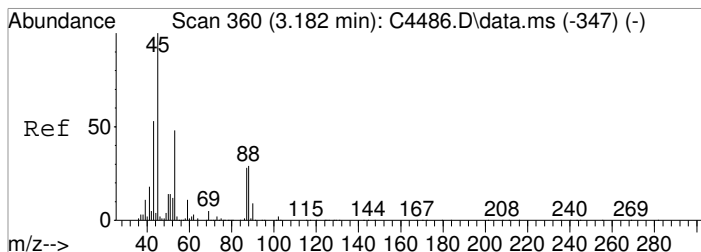
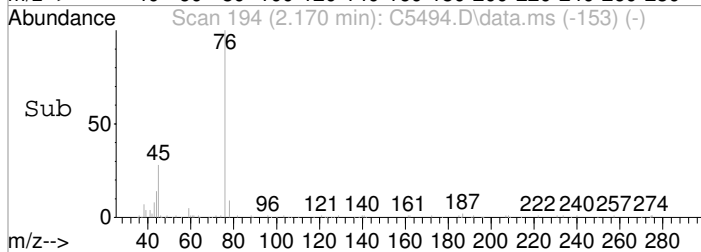
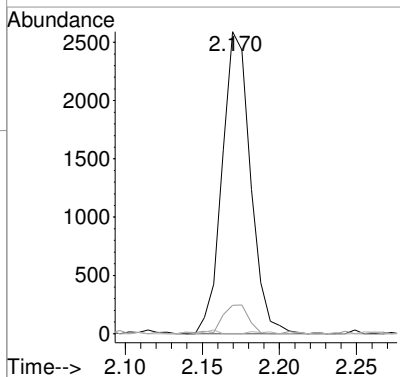
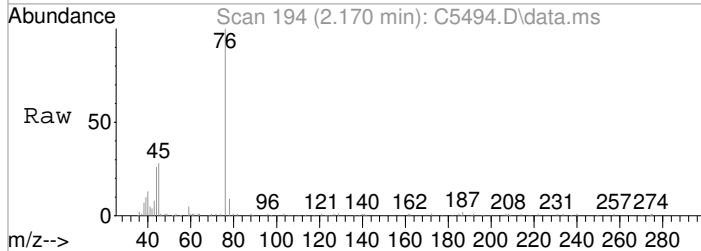
Tgt Ion	Resp	Lower	Upper
45	2251		
43	30.2	0.2	40.2





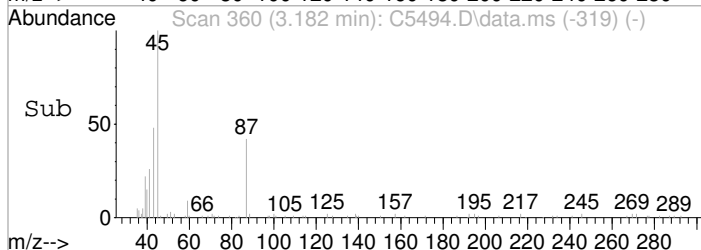
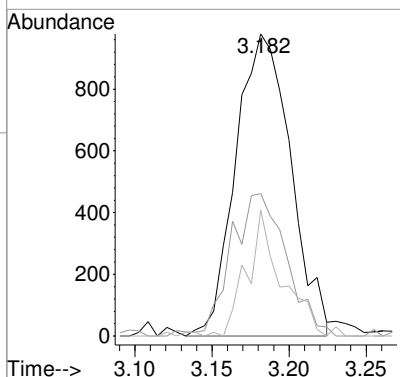
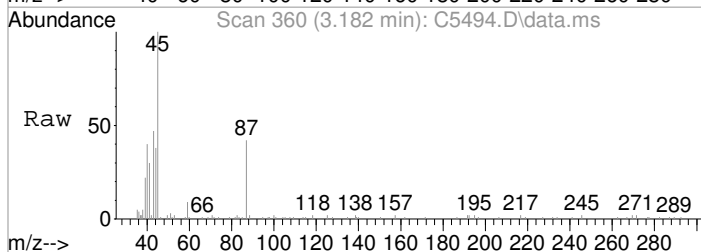
#18  
 Carbon Disulfide  
 Concen: 0.46 ug/L  
 RT: 2.170 min Scan# 194  
 Delta R.T. -0.006 min  
 Lab File: C5494.D  
 Acq: 14 Mar 2018 5:59 am

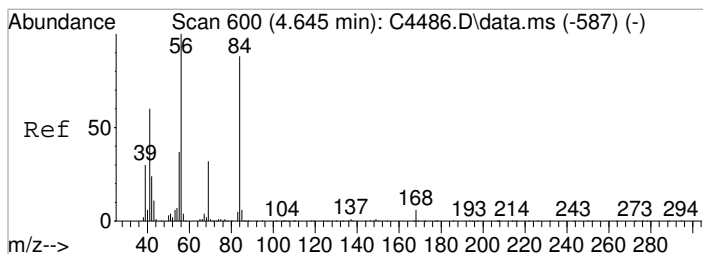
Tgt Ion	Resp	Lower	Upper
76	3315		
78	9.4	0.0	29.5
77	0.0	0.0	22.8



#29  
 DIPE  
 Concen: 0.26 ug/L  
 RT: 3.182 min Scan# 360  
 Delta R.T. 0.000 min  
 Lab File: C5494.D  
 Acq: 14 Mar 2018 5:59 am

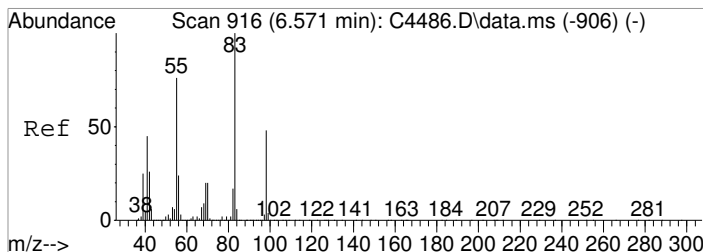
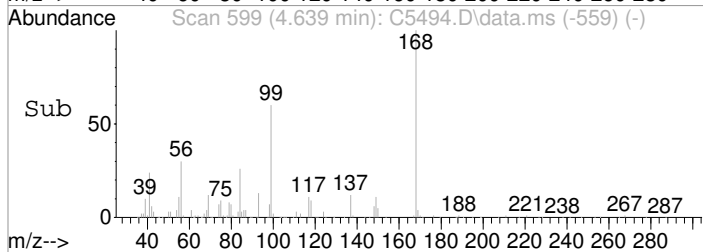
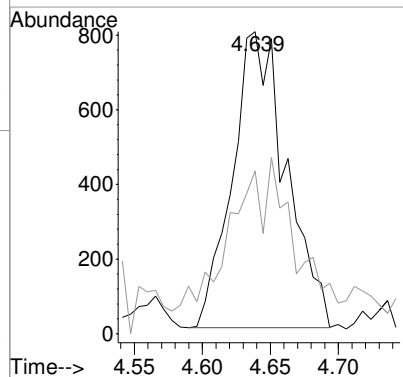
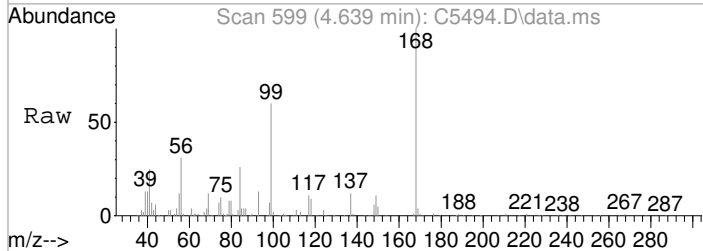
Tgt Ion	Resp	Lower	Upper
45	2425		
43	47.2	33.4	73.4
87	41.8	7.7	47.7





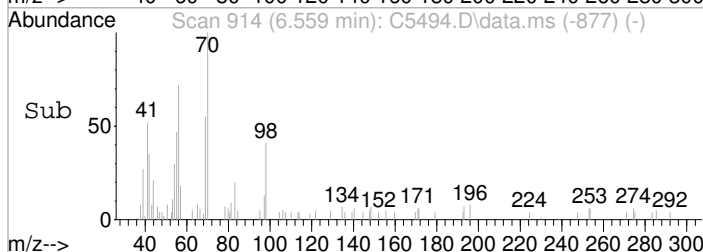
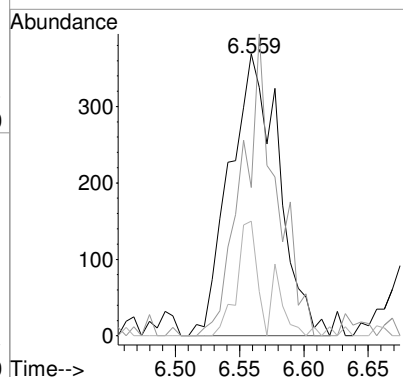
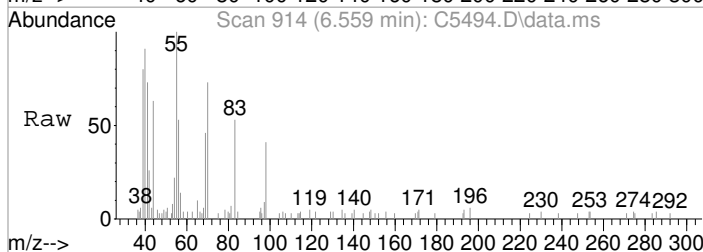
#43  
 Cyclohexane  
 Concen: 0.79 ug/L  
 RT: 4.639 min Scan# 599  
 Delta R.T. -0.006 min  
 Lab File: C5494.D  
 Acq: 14 Mar 2018 5:59 am

Tgt Ion	Resp	Lower	Upper
41	100		
39	53.9	29.2	69.2



#54  
 Methylcyclohexane  
 Concen: 0.27 ug/L  
 RT: 6.559 min Scan# 914  
 Delta R.T. -0.012 min  
 Lab File: C5494.D  
 Acq: 14 Mar 2018 5:59 am

Tgt Ion	Resp	Lower	Upper
55	100		
83	52.6	110.9	150.9#
98	40.7	42.5	82.5#



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5495.D  
 Acq On : 14 Mar 2018 6:21 am  
 Operator : F. NAEGLER  
 Sample : R1802137-008|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 15 17:12:07 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	264468	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	389039	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	348036	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	187545	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	122686	47.56	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	95.12%	
47) surr1,1,2-dichloroetha...	5.120	65	175793	55.84	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	111.68%	
64) SURR3,Toluene-d8	7.949	98	473221	48.74	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.48%	
69) SURR2,BFB	10.729	95	188543	48.31	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.62%	
Target Compounds						
15) Acetone	2.042	43	3121	1.79	ug/L	97
16) 2-Propanol	2.157	45	873	2.58	ug/L	76

(#) = qualifier out of range (m) = manual integration (+) = signals summed

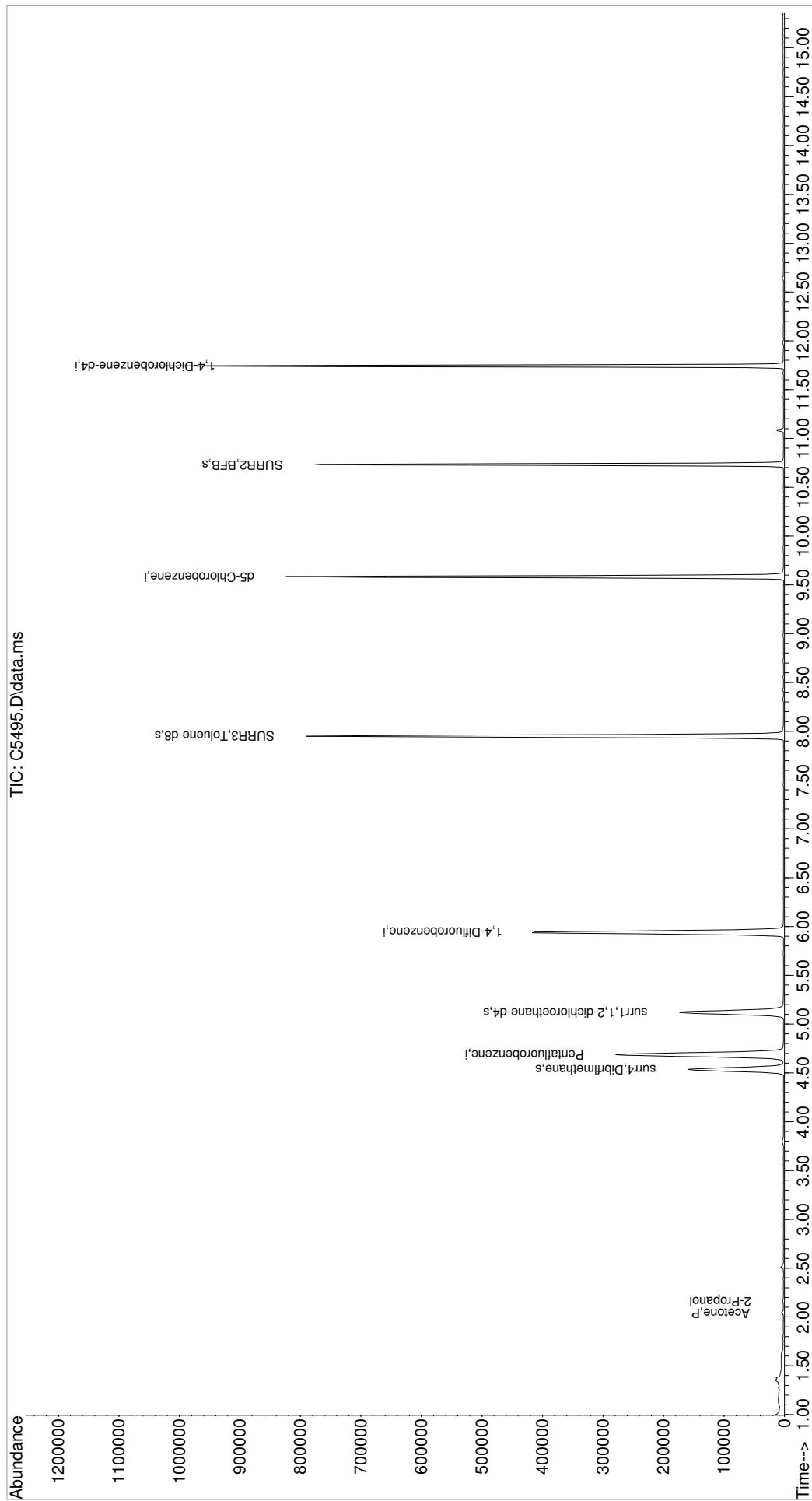


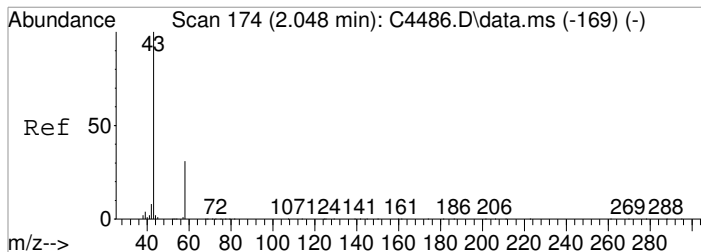
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5495.D  
Acq On : 14 Mar 2018 6:21 am  
Operator : F. NAEGLER  
Sample : R1802137-008|1.0  
Misc : DAY 12666 T4  
ALS Vial : 52 Sample Multiplier: 1

Inst : MSVOA14

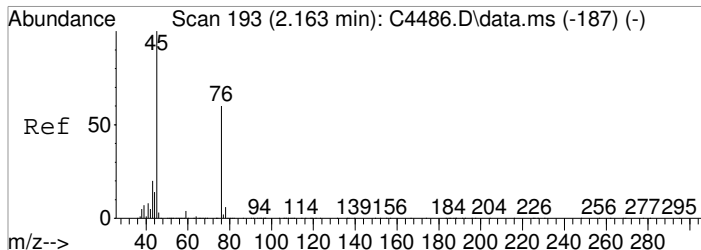
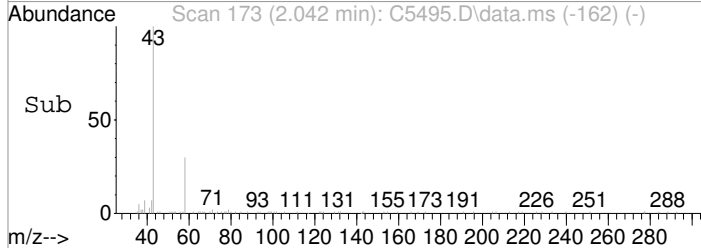
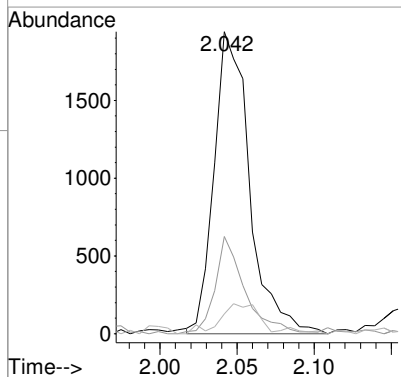
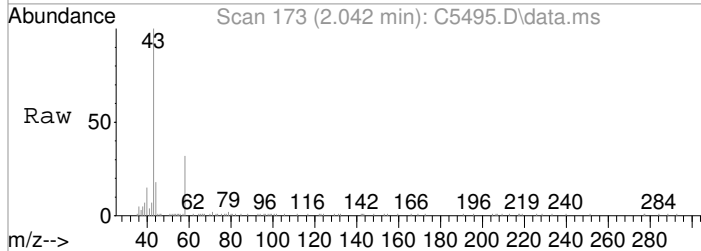
Quant Time: Mar 15 17:12:07 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





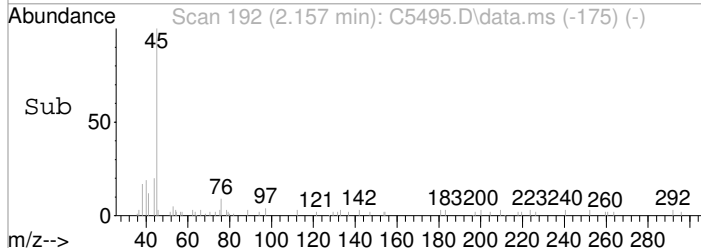
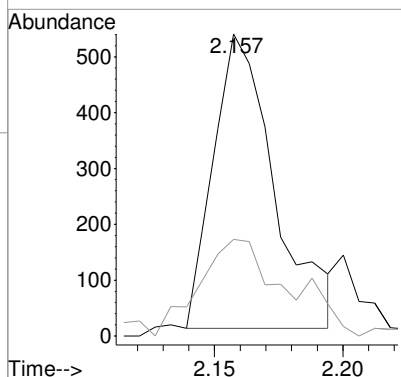
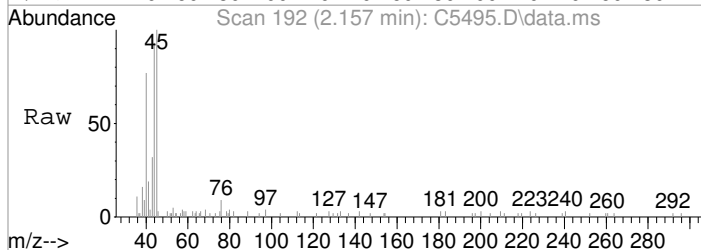
#15  
 Acetone  
 Concen: 1.79 ug/L  
 RT: 2.042 min Scan# 173  
 Delta R.T. -0.006 min  
 Lab File: C5495.D  
 Acq: 14 Mar 2018 6:21 am

Tgt Ion	Resp	Lower	Upper
43	3121		
58	32.2	10.7	50.7
42	6.5	0.0	28.2



#16  
 2-Propanol  
 Concen: 2.58 ug/L  
 RT: 2.157 min Scan# 192  
 Delta R.T. -0.006 min  
 Lab File: C5495.D  
 Acq: 14 Mar 2018 6:21 am

Tgt Ion	Resp	Lower	Upper
45	873		
43	31.2	0.2	40.2



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5487.D  
 Acq On : 14 Mar 2018 3:23 am  
 Operator : F. NAEGLER  
 Sample : R1802137-009|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Mar 15 17:01:06 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	267283	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	395601	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	353951	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	190891	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	124403	47.43	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	94.86%	
47) surr1,1,2-dichloroetha...	5.120	65	180192	56.29	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	112.58%	
64) SURR3,Toluene-d8	7.949	98	489060	49.53	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.06%	
69) SURR2,BFB	10.729	95	193359	48.73	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.46%	
Target Compounds						
15) Acetone	2.048	43	1973	1.12	ug/L	98
16) 2-Propanol	2.157	45	10606	31.01	ug/L	85

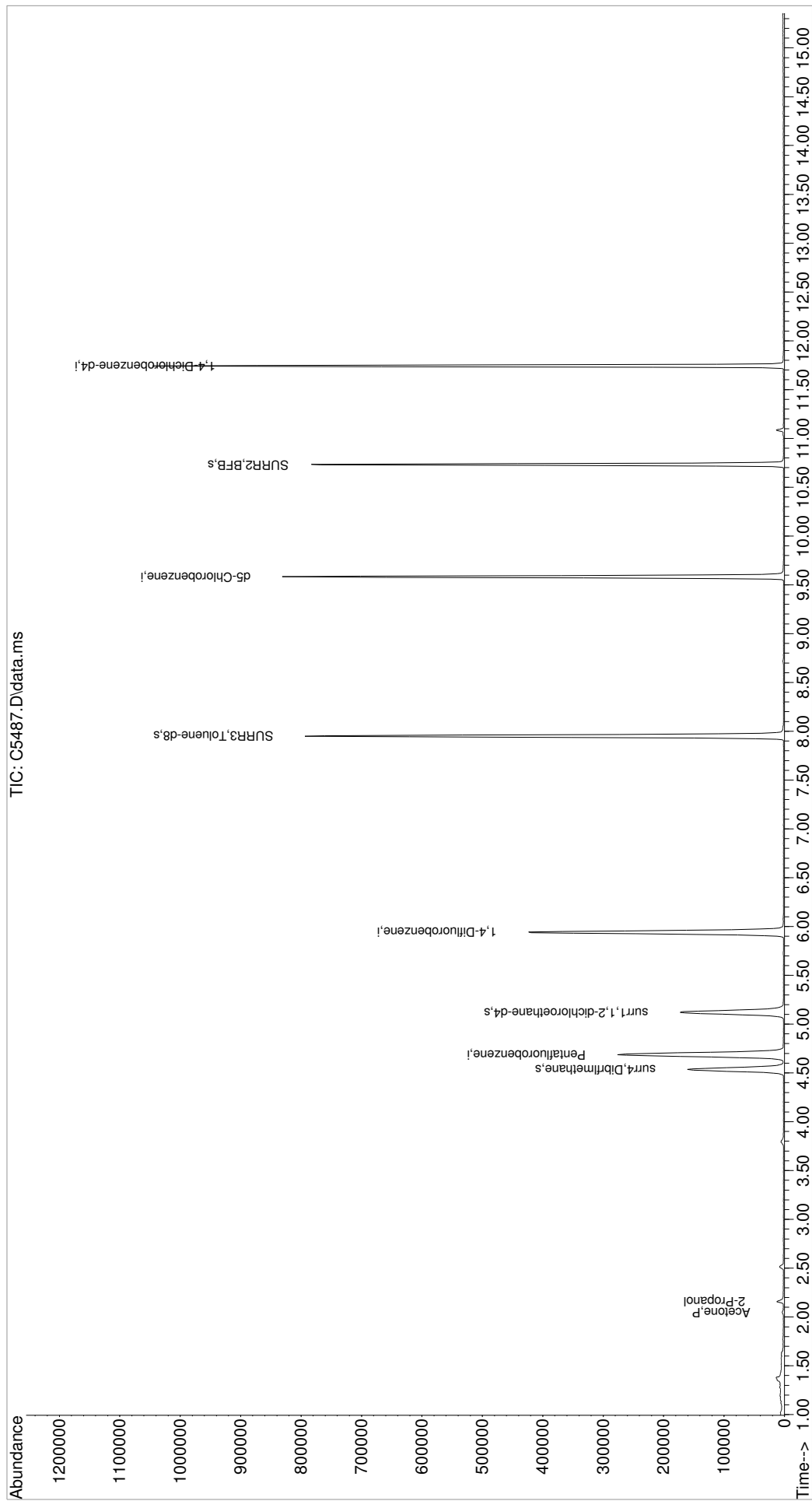
(#) = qualifier out of range (m) = manual integration (+) = signals summed

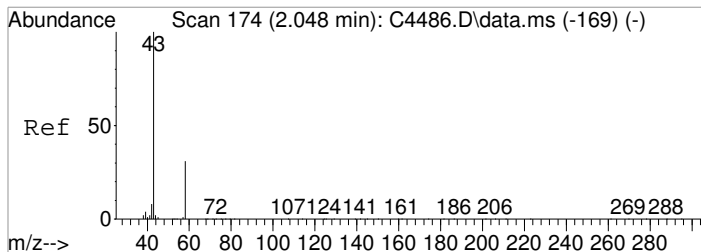
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5487.D  
Acq On : 14 Mar 2018 3:23 am  
Operator : F. NAEGLER  
Sample : R1802137-009|1.0  
Misc : DAY 12666 T4  
ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA14

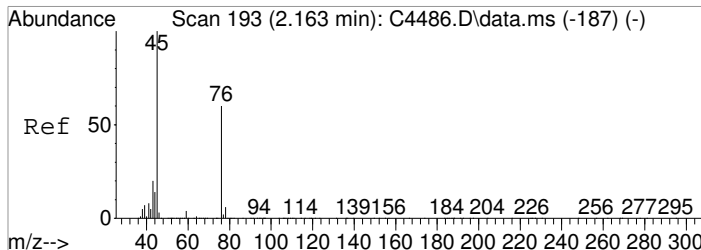
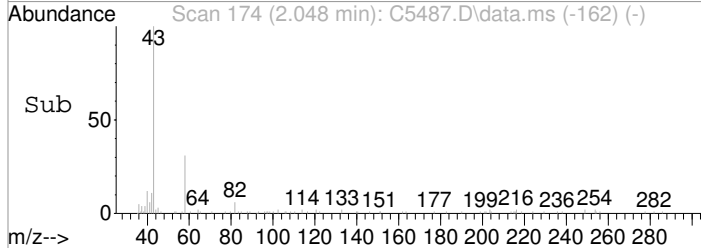
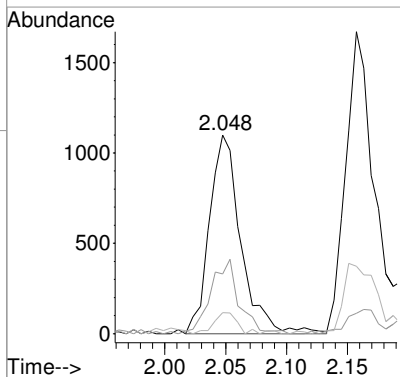
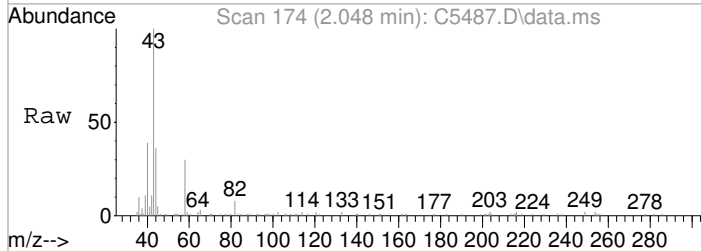
Quant Time: Mar 15 17:01:06 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





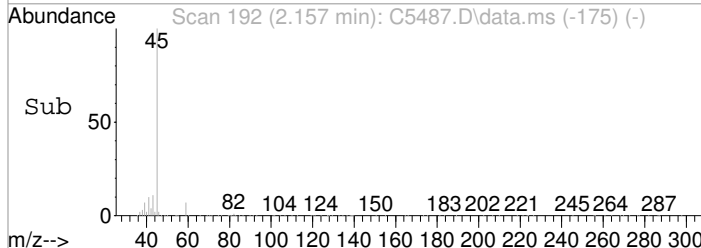
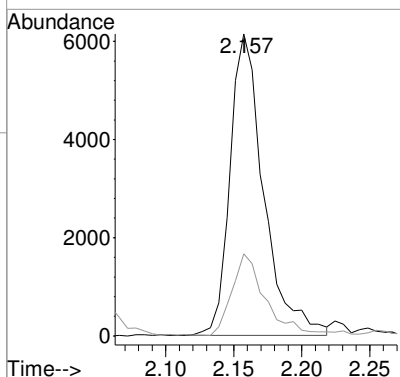
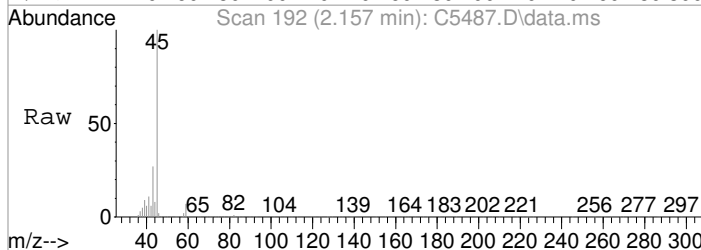
#15  
 Acetone  
 Concen: 1.12 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. -0.000 min  
 Lab File: C5487.D  
 Acq: 14 Mar 2018 3:23 am

Tgt Ion	Resp	Lower	Upper
43	1973		
58	30.1	10.7	50.7
42	10.6	0.0	28.2



#16  
 2-Propanol  
 Concen: 31.01 ug/L  
 RT: 2.157 min Scan# 192  
 Delta R.T. -0.006 min  
 Lab File: C5487.D  
 Acq: 14 Mar 2018 3:23 am

Tgt Ion	Resp	Lower	Upper
45	10606		
43	27.2	0.2	40.2



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5475.D  
 Acq On : 13 Mar 2018 10:57 pm  
 Operator : F. NAEGLER  
 Sample : MBLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 15 17:28:24 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

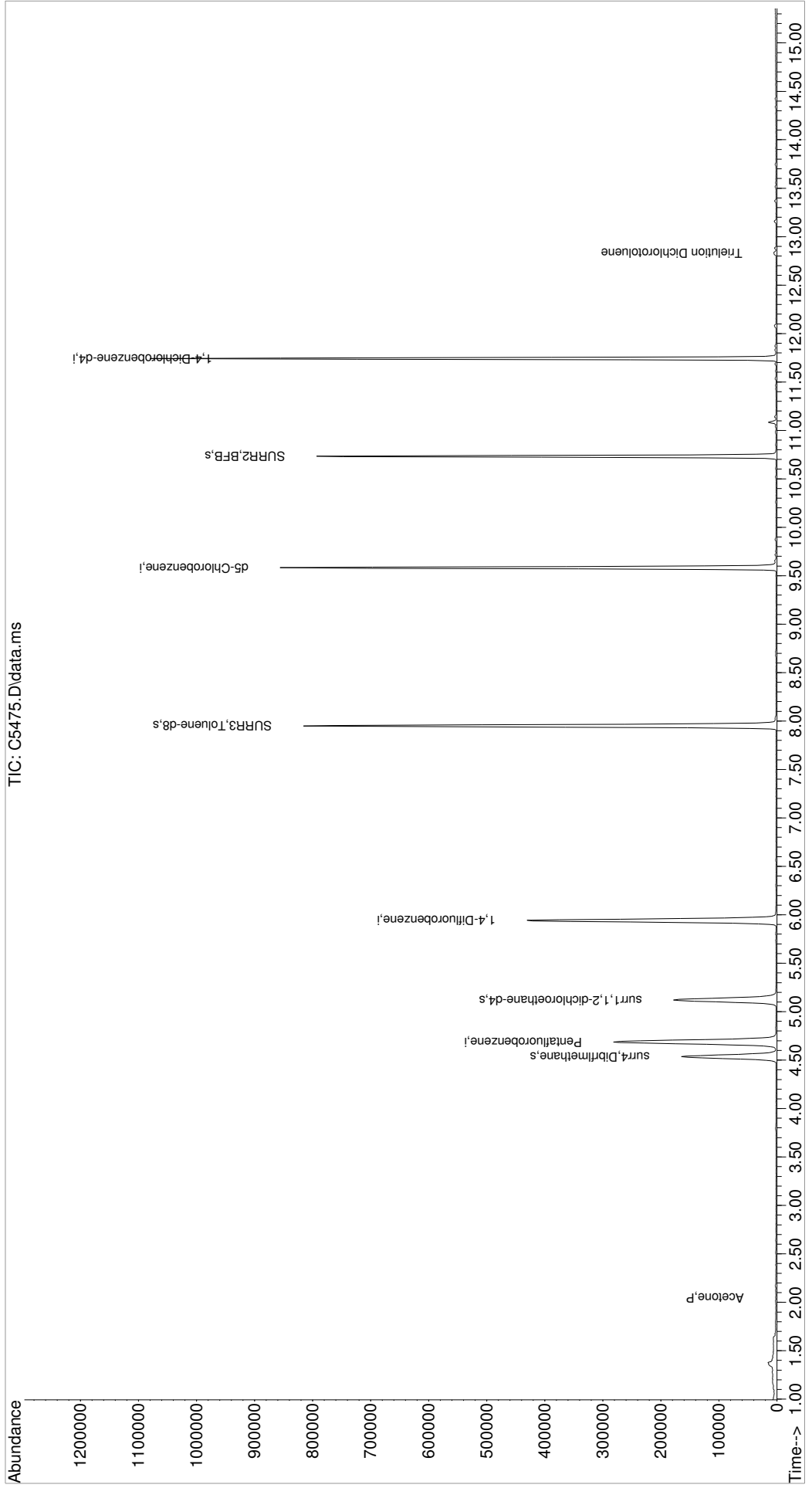
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	274840	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	405156	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	359591	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	192058	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	127713	47.54	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	95.08%	
47) surr1,1,2-dichloroetha...	5.120	65	180736	55.13	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.26%	
64) SURR3,Toluene-d8	7.949	98	493288	48.78	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.56%	
69) SURR2,BFB	10.735	95	193676	47.65	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.30%	
Target Compounds						
5) Bromomethane	1.414	94	256	Below Cal	Qvalue #	79
15) Acetone	2.048	43	563	0.31 ug/L		71
111) Trielution Dichlorotol...	12.832	125	1911	0.32 ug/L		89

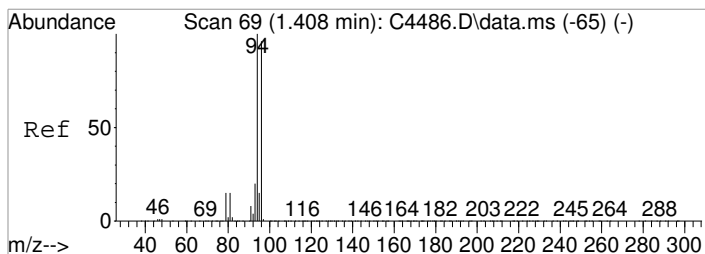
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5475.D  
Acq On : 13 Mar 2018 10:57 pm  
Operator : F. NAEGLER  
Sample : MBLK  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA14

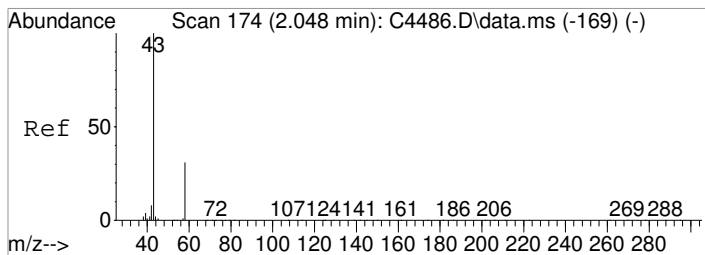
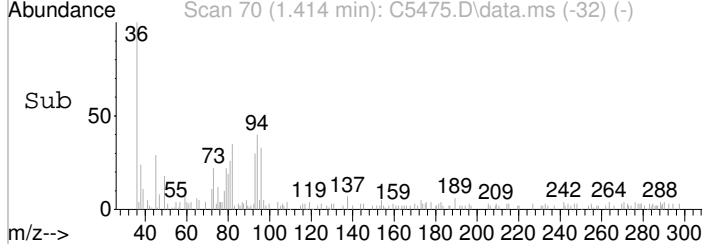
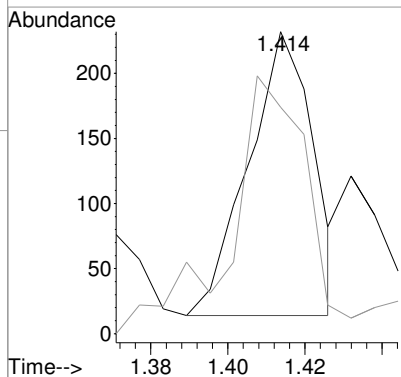
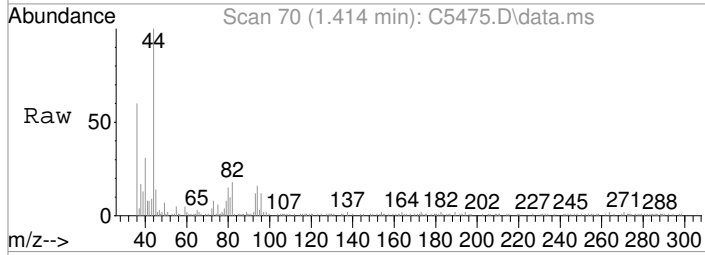
Quant Time: Mar 15 17:28:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





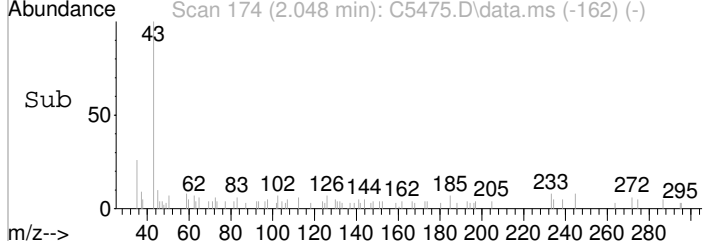
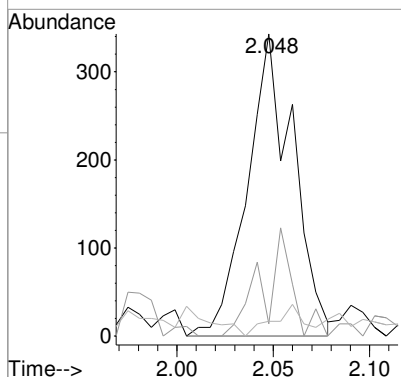
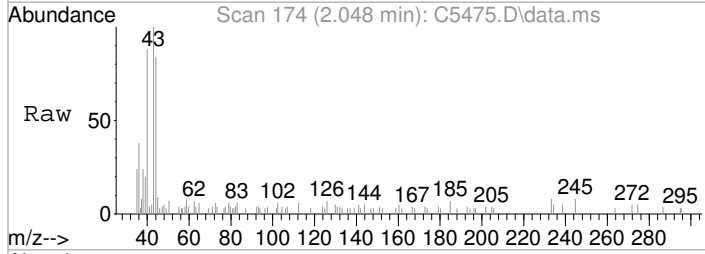
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.414 min Scan# 70  
 Delta R.T. 0.007 min  
 Lab File: C5475.D  
 Acq: 13 Mar 2018 10:57 pm

Tgt Ion	Resp	Lower	Upper
94	100		
96	75.0	75.8	115.8#

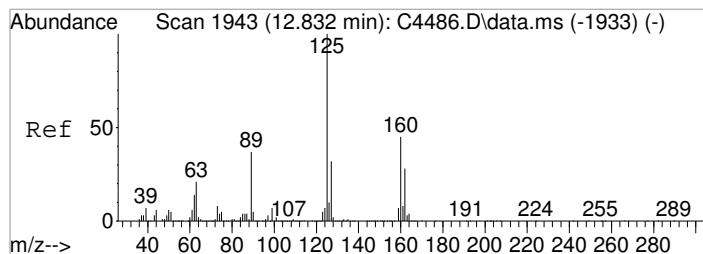


#15  
 Acetone  
 Concen: 0.31 ug/L  
 RT: 2.048 min Scan# 174  
 Delta R.T. 0.000 min  
 Lab File: C5475.D  
 Acq: 13 Mar 2018 10:57 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	12.0	10.7	50.7
42	5.0	0.0	28.2

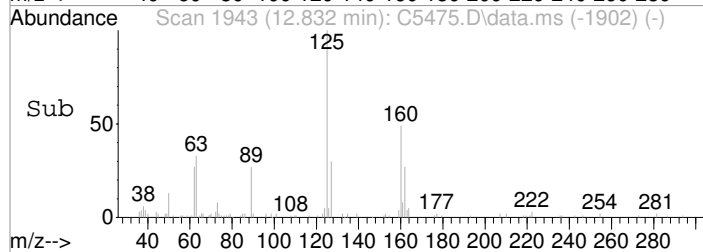
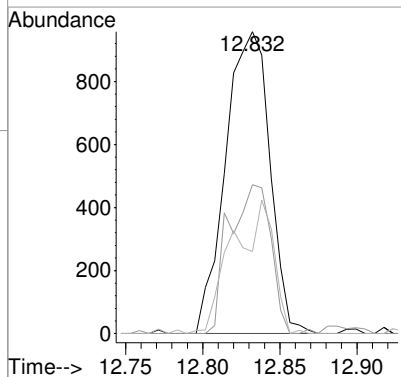
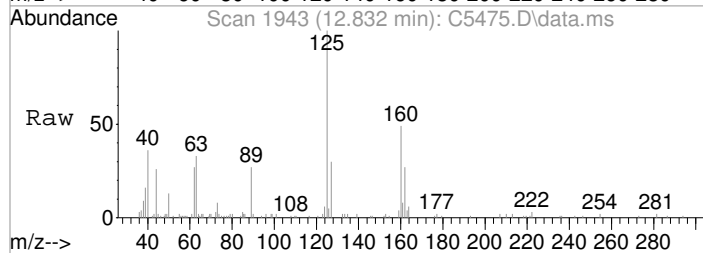






#111  
 Trielution Dichlorotoluene  
 Concen: 0.32 ug/L  
 RT: 12.832 min Scan# 1943  
 Delta R.T. 0.000 min  
 Lab File: C5475.D  
 Acq: 13 Mar 2018 10:57 pm

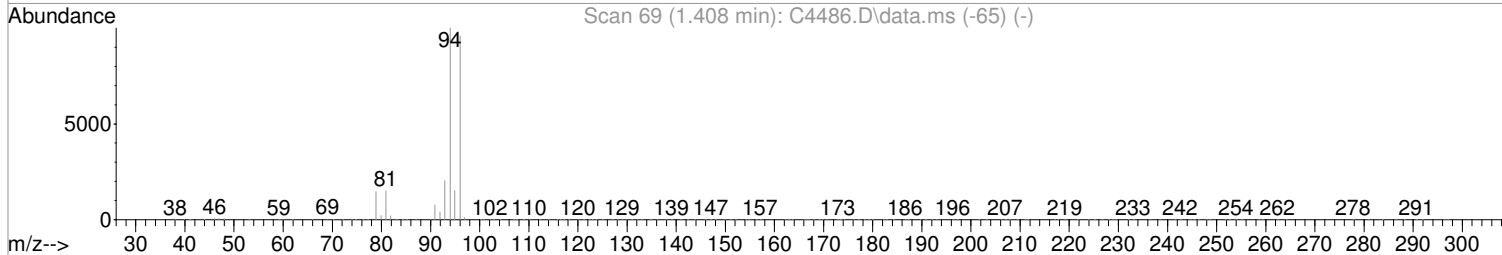
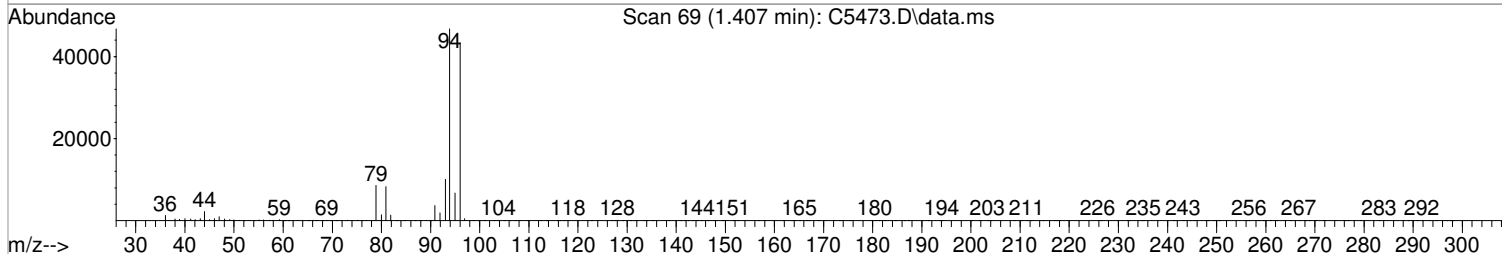
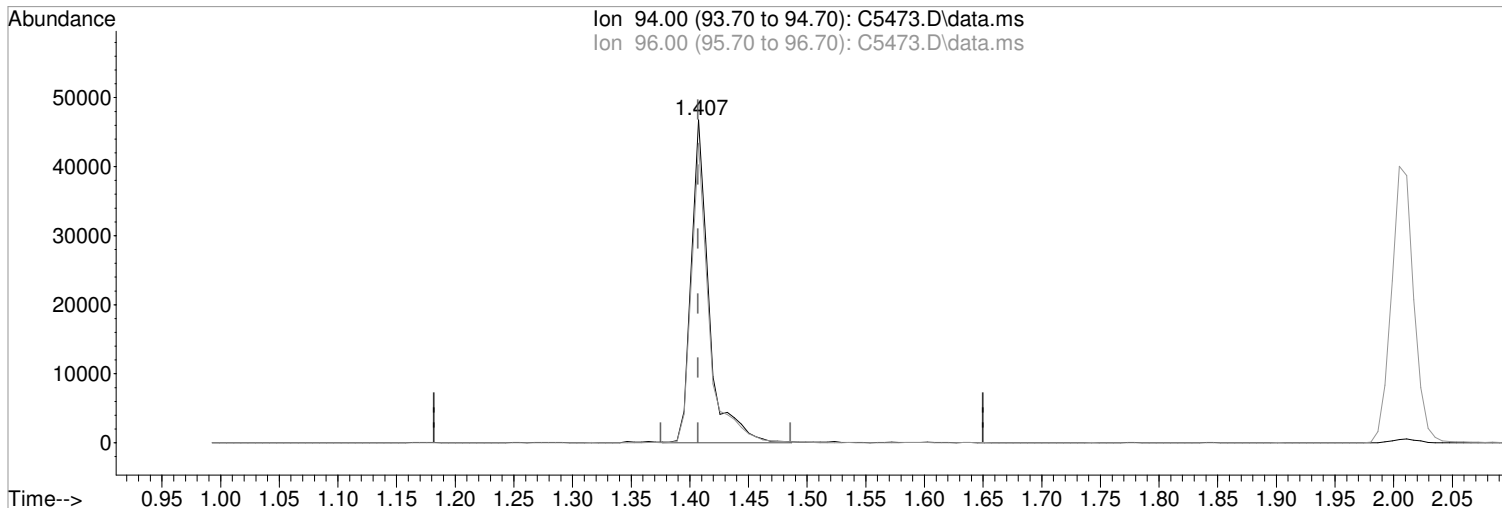
Tgt Ion	Resp	Lower	Upper
125	100		
160	49.4	24.5	64.5
89	27.1	16.7	56.7



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5473.D  
Acq On : 13 Mar 2018 10:12 pm  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:17:41 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



TIC: C5473.D\data.ms

(5) Bromomethane (P)

1.407min (+0.000) 23.36 ug/L m  
response 49709

Ion	Exp%	Act%
94.00	100	100
96.00	95.80	92.81
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

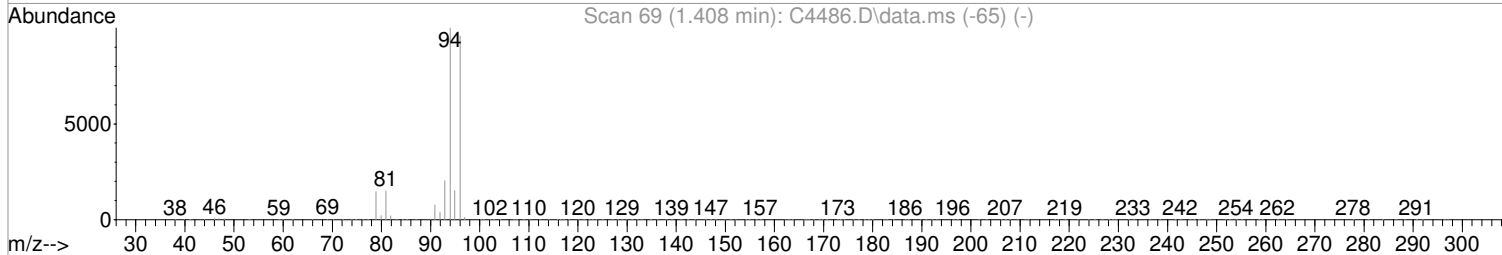
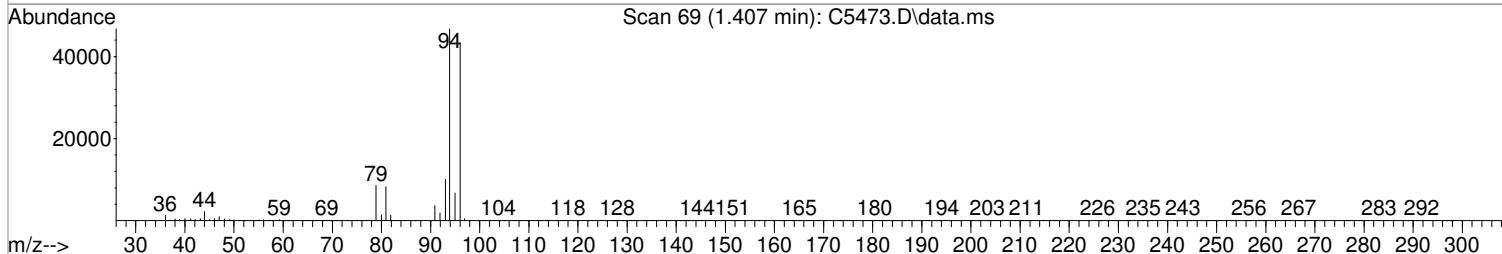
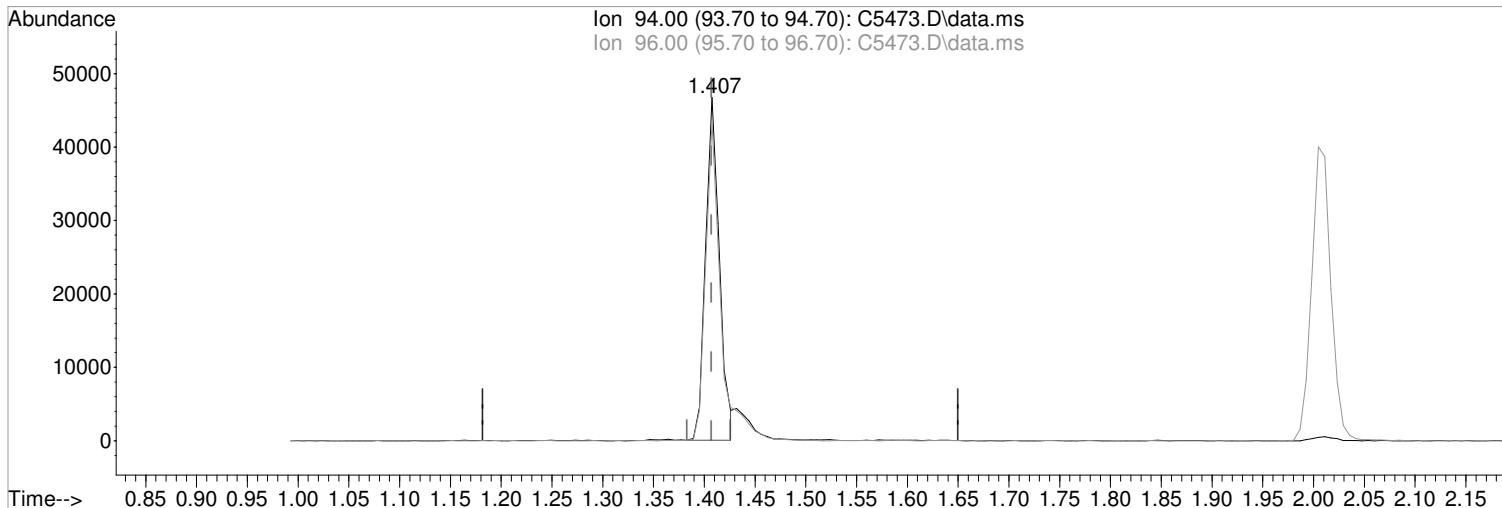
Poor integration.

03/14/18

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5473.D  
Acq On : 13 Mar 2018 10:12 pm  
Operator : F. NAEGLER  
Sample : LCS  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:17:41 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration



TIC: C5473.D\data.ms

(5) Bromomethane (P)  
1.407min (+0.000) 20.58 ug/L  
response 44181

Manual Integration:  
Before

Ion	Exp%	Act%
94.00	100	100
96.00	95.80	92.81
0.00	0.00	0.00
0.00	0.00	0.00

03/14/18

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5473.D  
 Acq On : 13 Mar 2018 10:12 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:32:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) Pentafluorobenzene	4.687	168	273639	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	409029	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	364573	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	200015	50.00	ug/L	0.00	
<b>System Monitoring Compounds</b>							
44) surr4,Dibrflmethane	4.535	113	131076	48.33	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	96.66%		
47) surr1,1,2-dichloroetha...	5.120	65	179455	54.22	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	108.44%		
64) SURR3,Toluene-d8	7.949	98	492047	48.20	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.40%		
69) SURR2,BFB	10.735	95	200014	48.75	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.50%		
<b>Target Compounds</b>							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	81581	21.97	ug/L		99
3) Chloromethane	1.158	50	78108	18.30	ug/L		99
4) Vinyl Chloride	1.218	62	74622	21.49	ug/L		98
5) Bromomethane	1.407	94	49709 <sup>m</sup>	23.36	ug/L		
6) Chloroethane	1.475	64	38980	19.64	ug/L		97
7) Freon 21	1.603	67	113693	21.39	ug/L		100
8) Trichlorofluoromethane	1.645	101	96203	24.29	ug/L		99
9) Diethyl Ether	1.846	59	61028	24.24	ug/L		98
10) Freon 123a	1.846	67	74218	22.77	ug/L		94
11) Freon 123	1.889	83	109416	29.34	ug/L		100
12) Acrolein	1.926	56	29383	38.30	ug/L		100
13) 1,1-Dicethene	2.005	96	53047	21.08	ug/L		93
14) Freon 113	2.011	101	51337	20.79	ug/L		99
15) Acetone	2.042	43	39451	21.87	ug/L		94
16) 2-Propanol	2.157	45	114956	328.28	ug/L		94
17) Iodomethane	2.121	142	65688	35.07	ug/L		98
18) Carbon Disulfide	2.170	76	133226	18.12	ug/L		99
19) Acetonitrile	2.255	40	32165	103.15	ug/L		99
20) Allyl Chloride	2.291	76	28437	23.41	ug/L	#	82
21) Methyl Acetate	2.310	43	62847	19.60	ug/L		99
22) Methylene Chloride	2.389	84	63063	21.95	ug/L		92
23) TBA	2.505	59	204276	345.77	ug/L		93
24) Acrylonitrile	2.602	53	171077	110.94	ug/L		100
25) Methyl-t-Butyl Ether	2.657	73	212030	22.06	ug/L		100
26) trans-1,2-Dichloroethene	2.639	96	58290	21.51	ug/L		92
27) 1,1-Dicethane	3.066	63	113201	22.59	ug/L		98
28) Vinyl Acetate	3.145	86	10040	14.56	ug/L	#	84
29) DIPE	3.182	45	200192	20.77	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.175	53	98664	22.63	ug/L		91
31) ETBE	3.633	59	183272	19.18	ug/L		100
32) 2,2-Dichloropropane	3.779	77	75547	17.14	ug/L		98
33) cis-1,2-Dichloroethene	3.785	96	66924	20.75	ug/L		92
34) 2-Butanone	3.828	43	47762	21.39	ug/L		100
35) Propionitrile	3.889	54	71454	105.37	ug/L		100
36) Bromochloromethane	4.120	130	43220	22.06	ug/L		93
37) Methacrylonitrile	4.120	67	34245	21.25	ug/L		93
38) Tetrahydrofuran	4.206	42	28468	20.27	ug/L		91
39) Chloroform	4.279	83	113938	22.32	ug/L		95
40) 1,1,1-Trichloroethane	4.547	97	93737	20.67	ug/L		97

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5473.D  
 Acq On : 13 Mar 2018 10:12 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:32:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	179407	18.88	ug/L	97
43) Cyclohexane	4.645	41	64671	22.46	ug/L	93
45) Carbontetrachloride	4.840	117	72509	18.59	ug/L	98
46) 1,1-Dichloropropene	4.852	75	82027	20.52	ug/L	97
48) Benzene	5.218	78	238857	21.21	ug/L	97
49) 1,2-Dichloroethane	5.260	62	106844	23.90	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	83158	313.90	ug/L	96
51) n-Heptane	5.803	43	65991	18.03	ug/L	92
52) 1-Butanol	6.370	56	106439	665.65	ug/L	95
53) Trichloroethene	6.309	130	68127	21.78	ug/L	97
54) Methylcyclohexane	6.571	55	78812	20.95	ug/L	89
55) 1,2-Diclpropane	6.608	63	66145	21.77	ug/L	99
56) Dibromomethane	6.766	93	43869	21.38	ug/L	91
57) 1,4-Dioxane	6.852	88	25074	365.45	ug/L	99
58) Methyl Methacrylate	6.894	69	54259	19.32	ug/L	92
59) Bromodichloromethane	7.028	83	80047	20.36	ug/L	99
60) 2-Nitropropane	7.339	41	33229	29.34	ug/L	87
61) 2-Chloroethylvinyl Ether	7.492	63	32316	26.57	ug/L	99
62) cis-1,3-Dichloropropene	7.632	75	98791	19.91	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	86851	20.98	ug/L	97
65) Toluene	8.028	91	253543	20.42	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	88322	18.78	ug/L	98
67) Ethyl Methacrylate	8.510	69	96261	20.25	ug/L	90
68) 1,1,2-Trichloroethane	8.534	97	62304	21.08	ug/L	99
71) Tetrachloroethene	8.680	164	48390	19.05	ug/L	98
72) 2-Hexanone	8.869	43	64359	20.22	ug/L	92
73) 1,3-Dichloropropane	8.717	76	111340	21.63	ug/L	95
74) Dibromochloromethane	8.967	129	59655	18.30	ug/L	98
75) N-Butyl Acetate	9.058	43	123191	18.95	ug/L	97
76) 1,2-Dibromoethane	9.065	107	66352	21.37	ug/L	96
77) 3-Chlorobenzotrifluoride	9.656	180	79552	16.10	ug/L	95
78) Chlorobenzene	9.613	112	165584	19.88	ug/L	97
79) 4-Chlorobenzotrifluoride	9.717	180	71115	15.77	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.711	131	57412	18.91	ug/L	98
81) Ethylbenzene	9.753	106	87472	19.92	ug/L	97
82) (m+p)Xylene	9.875	106	216291	39.53	ug/L	95
83) o-Xylene	10.253	106	107495	20.07	ug/L	96
84) Styrene	10.265	104	185535	20.14	ug/L	98
85) Bromoform	10.418	173	39430	16.54	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	80022	16.56	ug/L	97
87) Isopropylbenzene	10.613	105	273160	19.34	ug/L	99
88) Cyclohexanone	10.662	55	305473	392.15	ug/L	93
89) trans-1,4-Dichloro-2-B...	10.936	53	26188	21.36	ug/L	81
91) 1,1,2,2-Tetrachloroethane	10.887	83	82354	18.29	ug/L	98
92) Bromobenzene	10.851	156	74727	20.57	ug/L	95
93) 1,2,3-Trichloropropane	10.906	110	31003	20.67	ug/L	95
94) n-Propylbenzene	10.985	91	319536	20.22	ug/L	98
95) 2-Chlorotoluene	11.040	91	196966	20.60	ug/L	98
96) 3-Chlorotoluene	11.095	91	189030	18.33	ug/L	97
97) 4-Chlorotoluene	11.137	91	227003	20.23	ug/L	99
98) 1,3,5-Trimethylbenzene	11.143	105	231603	20.25	ug/L	98
99) tert-Butylbenzene	11.424	119	197017	19.37	ug/L	99
100) 1,2,4-Trimethylbenzene	11.466	105	237779	20.33	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.534	214	61548	15.59	ug/L	97
102) sec-Butylbenzene	11.613	105	287031	19.74	ug/L	99
103) p-Isopropyltoluene	11.741	119	246137	19.59	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5473.D  
 Acq On : 13 Mar 2018 10:12 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Mar 14 09:32:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

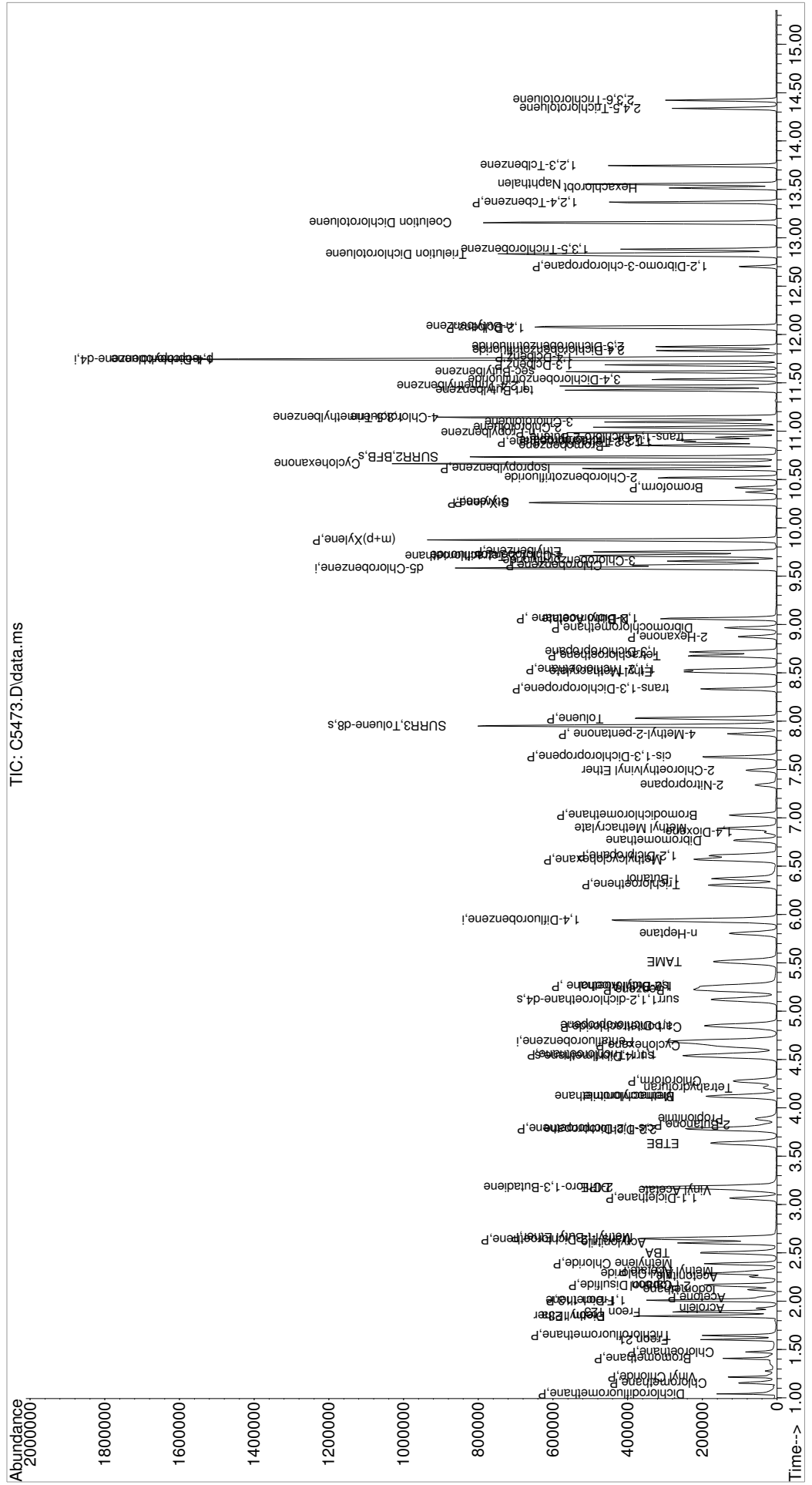
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	137370	19.94	ug/L	98
105) 1,4-Dclbenz	11.765	146	139067	19.44	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	55817	15.56	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.875	214	64706	16.05	ug/L	99
108) n-Butylbenzene	12.082	91	221512	19.84	ug/L	98
109) 1,2-Dclbenz	12.070	146	134972	19.79	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.704	157	17383	14.12	ug/L	96
111) Trielution Dichlorotol...	12.832	125	324270	51.53	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	91887	17.18	ug/L	97
113) Coelution Dichlorotoluene	13.155	125	245435	35.87	ug/L	98
114) 1,2,4-Tcbenzene	13.369	180	99913	19.49	ug/L	99
115) Hexachlorobt	13.515	225	40212	17.24	ug/L	97
116) Naphthalen	13.558	128	297115	19.28	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	96246	18.94	ug/L	95
118) 2,4,5-Trichlorotoluene	14.338	159	52353	13.80	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	51318	14.73	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\031318\  
 Data File : C5473.D  
 Acq On : 13 Mar 2018 10:12 pm  
 Operator : F. NAEGLER  
 Sample : LCS  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:32:30 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5496.D  
 Acq On : 14 Mar 2018 6:44 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002MS|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 14 10:06:39 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	266808	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	390684	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	352568	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	194407	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	130011	50.19	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.38%	
47) surr1,1,2-dichloroetha...	5.120	65	178145	56.35	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	112.70%	
64) SURR3,Toluene-d8	7.949	98	485297	49.77	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.54%	
69) SURR2,BFB	10.735	95	194595	49.65	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	188149	51.96	ug/L	97
3) Chloromethane	1.151	50	189195	45.46	ug/L	99
4) Vinyl Chloride	1.219	62	182326	53.84	ug/L	100
5) Bromomethane	1.408	94	99053	51.84	ug/L	100
6) Chloroethane	1.475	64	97126	50.19	ug/L	99
7) Freon 21	1.603	67	272230	52.53	ug/L	99
8) Trichlorofluoromethane	1.645	101	231134	59.86	ug/L	98
9) Diethyl Ether	1.846	59	139222	56.71	ug/L	97
10) Freon 123a	1.846	67	175129	55.11	ug/L	92
11) Freon 123	1.889	83	255527	70.27	ug/L	98
12) Acrolein	1.926	56	62146	83.09	ug/L	100
13) 1,1-Dicethene	2.005	96	133001	54.21	ug/L	91
14) Freon 113	2.011	101	123111	51.13	ug/L	96
15) Acetone	2.042	43	79623	45.28	ug/L	94
16) 2-Propanol	2.157	45	259733	760.70	ug/L	92
17) Iodomethane	2.121	142	202458	86.11	ug/L	98
18) Carbon Disulfide	2.176	76	346550	48.33	ug/L	99
19) Acetonitrile	2.255	40	73905	243.07	ug/L	99
20) Allyl Chloride	2.292	76	69369	58.57	ug/L #	78
21) Methyl Acetate	2.310	43	121103	38.73	ug/L	97
22) Methylene Chloride	2.389	84	149029	53.19	ug/L	93
23) TBA	2.505	59	439588	763.12	ug/L	92
24) Acrylonitrile	2.602	53	382652	254.50	ug/L	99
25) Methyl-t-Butyl Ether	2.651	73	475944	50.78	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	143743	54.41	ug/L	95
27) 1,1-Dicethane	3.066	63	277799	56.86	ug/L	100
28) Vinyl Acetate	3.145	86	26932	38.41	ug/L #	87
29) DIPE	3.182	45	500669	53.28	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	260904	61.37	ug/L	91
31) ETBE	3.639	59	436032	46.80	ug/L	99
32) 2,2-Dichloropropane	3.779	77	139699	32.51	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	162225	51.58	ug/L	97
34) 2-Butanone	3.828	43	102158	46.93	ug/L	98
35) Propionitrile	3.883	54	158909	240.34	ug/L	99
36) Bromochloromethane	4.120	130	101737	53.25	ug/L	90
37) Methacrylonitrile	4.120	67	78512	49.96	ug/L	90
38) Tetrahydrofuran	4.212	42	65351	47.73	ug/L	99
39) Chloroform	4.279	83	276738	55.61	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	232755	52.63	ug/L	95



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5496.D  
 Acq On : 14 Mar 2018 6:44 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002MS|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 14 10:06:39 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	416401	44.95	ug/L	95
43) Cyclohexane	4.645	41	147645	53.67	ug/L	99
45) Carbontetrachloride	4.840	117	186952	50.19	ug/L	98
46) 1,1-Dichloropropene	4.852	75	205436	53.79	ug/L	97
48) Benzene	5.218	78	581124	54.04	ug/L	97
49) 1,2-Dichloroethane	5.260	62	248263	58.15	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	187800	742.18	ug/L	100
51) n-Heptane	5.803	43	123501	35.33	ug/L	97
52) 1-Butanol	6.370	56	261701	1713.47	ug/L	92
53) Trichloroethene	6.303	130	153901	51.50	ug/L	94
54) Methylcyclohexane	6.571	55	170225	47.37	ug/L	95
55) 1,2-Diclpropane	6.614	63	155661	53.64	ug/L	98
56) Dibromomethane	6.766	93	102793	52.44	ug/L	93
57) 1,4-Dioxane	6.846	88	55799	851.44	ug/L	99
58) Methyl Methacrylate	6.894	69	126849	47.30	ug/L	95
59) Bromodichloromethane	7.028	83	194274	51.74	ug/L	97
60) 2-Nitropropane	7.339	41	81899	75.70	ug/L	96
62) cis-1,3-Dichloropropene	7.632	75	225378	47.56	ug/L	100
63) 4-Methyl-2-pentanone	7.870	43	197125	49.86	ug/L	97
65) Toluene	8.028	91	627952	52.94	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	200199	44.57	ug/L	96
67) Ethyl Methacrylate	8.510	69	223220	49.17	ug/L	92
68) 1,1,2-Trichloroethane	8.534	97	143062	50.67	ug/L	98
71) Tetrachloroethene	8.674	164	122008	49.68	ug/L	99
72) 2-Hexanone	8.876	43	142577	46.32	ug/L	94
73) 1,3-Dichloropropene	8.717	76	258376	51.90	ug/L	97
74) Dibromochloromethane	8.967	129	146514	46.47	ug/L	98
75) N-Butyl Acetate	9.058	43	242281	38.53	ug/L	96
76) 1,2-Dibromoethane	9.065	107	149006	49.64	ug/L	100
77) 3-Chlorobenzotrifluoride	9.656	180	205735	43.04	ug/L	99
78) Chlorobenzene	9.613	112	394024	48.91	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	186494	42.76	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	140788	47.94	ug/L	99
81) Ethylbenzene	9.753	106	222833	52.48	ug/L	98
82) (m+p)Xylene	9.875	106	536574	101.42	ug/L	97
83) o-Xylene	10.253	106	265573	51.27	ug/L	94
84) Styrene	10.266	104	450987	50.62	ug/L	99
85) Bromoform	10.418	173	95906	41.59	ug/L	97
86) 2-Chlorobenzotrifluoride	10.516	180	213778	45.75	ug/L	97
87) Isopropylbenzene	10.613	105	691295	50.62	ug/L	99
88) Cyclohexanone	10.662	55	164588	218.48	ug/L	93
89) trans-1,4-Dichloro-2-B...	10.936	53	57343	48.37	ug/L	83
91) 1,1,2,2-Tetrachloroethane	10.887	83	215715	49.29	ug/L	99
92) Bromobenzene	10.851	156	181050	51.27	ug/L	98
93) 1,2,3-Trichloropropane	10.906	110	70322	48.25	ug/L	99
94) n-Propylbenzene	10.985	91	802875	52.27	ug/L	98
95) 2-Chlorotoluene	11.040	91	483901	52.08	ug/L	99
96) 3-Chlorotoluene	11.095	91	508038	50.69	ug/L	98
97) 4-Chlorotoluene	11.137	91	554254	50.83	ug/L	96
98) 1,3,5-Trimethylbenzene	11.143	105	577901	51.97	ug/L	96
99) tert-Butylbenzene	11.424	119	491489	49.72	ug/L	98
100) 1,2,4-Trimethylbenzene	11.467	105	585444	51.51	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.540	214	153245	39.93	ug/L	98
102) sec-Butylbenzene	11.613	105	710472	50.27	ug/L	99
103) p-Isopropyltoluene	11.741	119	605840	49.62	ug/L	98
104) 1,3-Dclbenz	11.686	146	329550	49.22	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5496.D  
 Acq On : 14 Mar 2018 6:44 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002MS|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 14 10:06:39 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.759	146	331754	47.71	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.832	214	144276	41.37	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	164983	42.11	ug/L	99
108) n-Butylbenzene	12.082	91	536930	49.48	ug/L	98
109) 1,2-Dclbenz	12.070	146	322098	48.59	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	43105	36.03	ug/L	95
111) Trielution Dichlorotol...	12.832	125	821152	134.26	ug/L	96
112) 1,3,5-Trichlorobenzene	12.881	180	226756	43.62	ug/L	100
113) Coelution Dichlorotoluene	13.155	125	602374	90.58	ug/L	99
114) 1,2,4-Tcbenzene	13.369	180	225965	45.35	ug/L	99
115) Hexachlorobt	13.515	225	88320	38.97	ug/L	98
116) Naphthalen	13.552	128	845296	56.43	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	224536	45.47	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	133560	36.22	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	129274	38.18	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5497.D  
 Acq On : 14 Mar 2018 7:06 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002DMS|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 14 10:06:55 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	269448	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	401476	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	360472	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	201363	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	131679	49.47	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.94%	
47) surr1,1,2-dichloroetha...	5.120	65	179094	55.13	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	110.26%	
64) SURR3,Toluene-d8	7.949	98	489595	48.86	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.72%	
69) SURR2,BFB	10.735	95	198287	49.24	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	193677	52.97	ug/L	98
3) Chloromethane	1.151	50	193661	46.08	ug/L	98
4) Vinyl Chloride	1.219	62	188302	55.06	ug/L	99
5) Bromomethane	1.408	94	108240	56.92	ug/L	100
6) Chloroethane	1.475	64	99598	50.96	ug/L	100
7) Freon 21	1.603	67	278347	53.19	ug/L	98
8) Trichlorofluoromethane	1.645	101	233562	59.89	ug/L	99
9) Diethyl Ether	1.846	59	139489	56.26	ug/L	97
10) Freon 123a	1.846	67	175236	54.61	ug/L	95
11) Freon 123	1.889	83	261916	71.32	ug/L	99
12) Acrolein	1.926	56	63181	83.65	ug/L	98
13) 1,1-Diclcethene	2.005	96	136436	55.06	ug/L	94
14) Freon 113	2.011	101	123782	50.90	ug/L	94
15) Acetone	2.042	43	80404	45.28	ug/L	93
16) 2-Propanol	2.157	45	264105	765.93	ug/L	93
17) Iodomethane	2.121	142	212019	88.47	ug/L	92
18) Carbon Disulfide	2.170	76	370815	51.21	ug/L	99
19) Acetonitrile	2.255	40	75713	246.57	ug/L	93
20) Allyl Chloride	2.291	76	73012	61.04	ug/L #	79
21) Methyl Acetate	2.310	43	117958	37.35	ug/L	98
22) Methylene Chloride	2.389	84	152541	53.91	ug/L	95
23) TBA	2.505	59	450291	774.04	ug/L	94
24) Acrylonitrile	2.602	53	383997	252.89	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	493604	52.15	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	146240	54.81	ug/L	90
27) 1,1-Diclcethane	3.066	63	286914	58.15	ug/L	98
28) Vinyl Acetate	3.145	86	26998	38.14	ug/L #	91
29) DIPE	3.182	45	517399	54.52	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	266680	62.12	ug/L	92
31) ETBE	3.633	59	458886	48.77	ug/L	97
32) 2,2-Dichloropropane	3.779	77	144332	33.26	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	165861	52.22	ug/L	95
34) 2-Butanone	3.822	43	102370	46.57	ug/L	100
35) Propionitrile	3.889	54	158480	237.34	ug/L	95
36) Bromochloromethane	4.120	130	103665	53.73	ug/L	88
37) Methacrylonitrile	4.120	67	77772	49.00	ug/L	93
38) Tetrahydrofuran	4.206	42	64063	46.33	ug/L	99
39) Chloroform	4.279	83	285073	56.72	ug/L	96
40) 1,1,1-Trichloroethane	4.547	97	243811	54.59	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5497.D  
 Acq On : 14 Mar 2018 7:06 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002DMS|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 14 10:06:55 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	428596	45.81	ug/L	96
43) Cyclohexane	4.645	41	143005	50.59	ug/L	94
45) Carbontetrachloride	4.846	117	194004	50.68	ug/L	97
46) 1,1-Dichloropropene	4.852	75	209947	53.50	ug/L	96
48) Benzene	5.218	78	595957	53.93	ug/L	97
49) 1,2-Dichloroethane	5.260	62	254586	58.02	ug/L	99
50) Iso-Butyl Alcohol	5.260	43	188798	726.07	ug/L	99
51) n-Heptane	5.803	43	124888	34.76	ug/L	96
52) 1-Butanol	6.370	56	268812	1712.71	ug/L	96
53) Trichloroethene	6.303	130	158149	51.50	ug/L	99
54) Methylcyclohexane	6.571	55	170036	46.04	ug/L	94
55) 1,2-Diclpropane	6.608	63	159688	53.55	ug/L	98
56) Dibromomethane	6.766	93	104327	51.80	ug/L	92
57) 1,4-Dioxane	6.845	88	55505	824.19	ug/L	96
58) Methyl Methacrylate	6.894	69	129347	46.93	ug/L	95
59) Bromodichloromethane	7.028	83	202831	52.57	ug/L	99
60) 2-Nitropropane	7.339	41	86813	78.08	ug/L	100
62) cis-1,3-Dichloropropene	7.632	75	233350	47.92	ug/L	98
63) 4-Methyl-2-pentanone	7.864	43	201741	49.65	ug/L	94
65) Toluene	8.028	91	642582	52.72	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	209602	45.41	ug/L	98
67) Ethyl Methacrylate	8.510	69	232648	49.87	ug/L	90
68) 1,1,2-Trichloroethane	8.534	97	146328	50.44	ug/L	99
71) Tetrachloroethene	8.674	164	123494	49.18	ug/L	99
72) 2-Hexanone	8.876	43	145069	46.10	ug/L	94
73) 1,3-Dichloropropene	8.717	76	259612	51.00	ug/L	94
74) Dibromochloromethane	8.967	129	153426	47.60	ug/L	99
75) N-Butyl Acetate	9.058	43	237802	36.99	ug/L	98
76) 1,2-Dibromoethane	9.058	107	152795	49.78	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	209466	42.86	ug/L	97
78) Chlorobenzene	9.613	112	404294	49.08	ug/L	97
79) 4-Chlorobenzotrifluoride	9.717	180	187902	42.13	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.711	131	146498	48.79	ug/L	99
81) Ethylbenzene	9.753	106	220006	50.68	ug/L	94
82) (m+p)Xylene	9.875	106	545347	100.81	ug/L	93
83) o-Xylene	10.253	106	269267	50.85	ug/L	93
84) Styrene	10.266	104	461182	50.63	ug/L	99
85) Bromoform	10.418	173	100271	42.53	ug/L	98
86) 2-Chlorobenzotrifluoride	10.515	180	211712	44.31	ug/L	96
87) Isopropylbenzene	10.613	105	701246	50.22	ug/L	100
88) Cyclohexanone	10.662	55	165062	214.31	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.936	53	58768	48.48	ug/L	81
91) 1,1,2,2-Tetrachloroethane	10.887	83	217117	47.90	ug/L	100
92) Bromobenzene	10.851	156	182602	49.92	ug/L	97
93) 1,2,3-Trichloropropane	10.906	110	70520	46.71	ug/L	99
94) n-Propylbenzene	10.985	91	812669	51.08	ug/L	98
95) 2-Chlorotoluene	11.040	91	497449	51.69	ug/L	98
96) 3-Chlorotoluene	11.095	91	502950	48.44	ug/L	97
97) 4-Chlorotoluene	11.137	91	573736	50.80	ug/L	98
98) 1,3,5-Trimethylbenzene	11.150	105	585362	50.83	ug/L	97
99) tert-Butylbenzene	11.424	119	498527	48.69	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	595594	50.59	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.540	214	153208	38.54	ug/L	100
102) sec-Butylbenzene	11.613	105	716672	48.96	ug/L	99
103) p-Isopropyltoluene	11.741	119	604523	47.80	ug/L	98
104) 1,3-Dclbenz	11.686	146	332471	47.94	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5497.D  
 Acq On : 14 Mar 2018 7:06 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002DMS|1.0 Inst : MSVOA14  
 Misc : DAY 12666 T4  
 ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 14 10:06:55 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.759	146	339072	47.08	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.832	214	142451	39.44	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	165376	40.75	ug/L	100
108) n-Butylbenzene	12.082	91	545051	48.49	ug/L	98
109) 1,2-Dclbenz	12.070	146	330036	48.06	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	44965	36.29	ug/L	95
111) Trielution Dichlorotol...	12.832	125	835287	131.85	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	228720	42.48	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	613280	89.04	ug/L	99
114) 1,2,4-Tcbenzene	13.369	180	230258	44.61	ug/L	97
115) Hexachlorobt	13.515	225	90780	38.67	ug/L	98
116) Naphthalen	13.551	128	852993	54.98	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	227633	44.50	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	136384	35.71	ug/L	98
119) 2,3,6-Trichlorotoluene	14.423	159	130087	37.09	ug/L	98

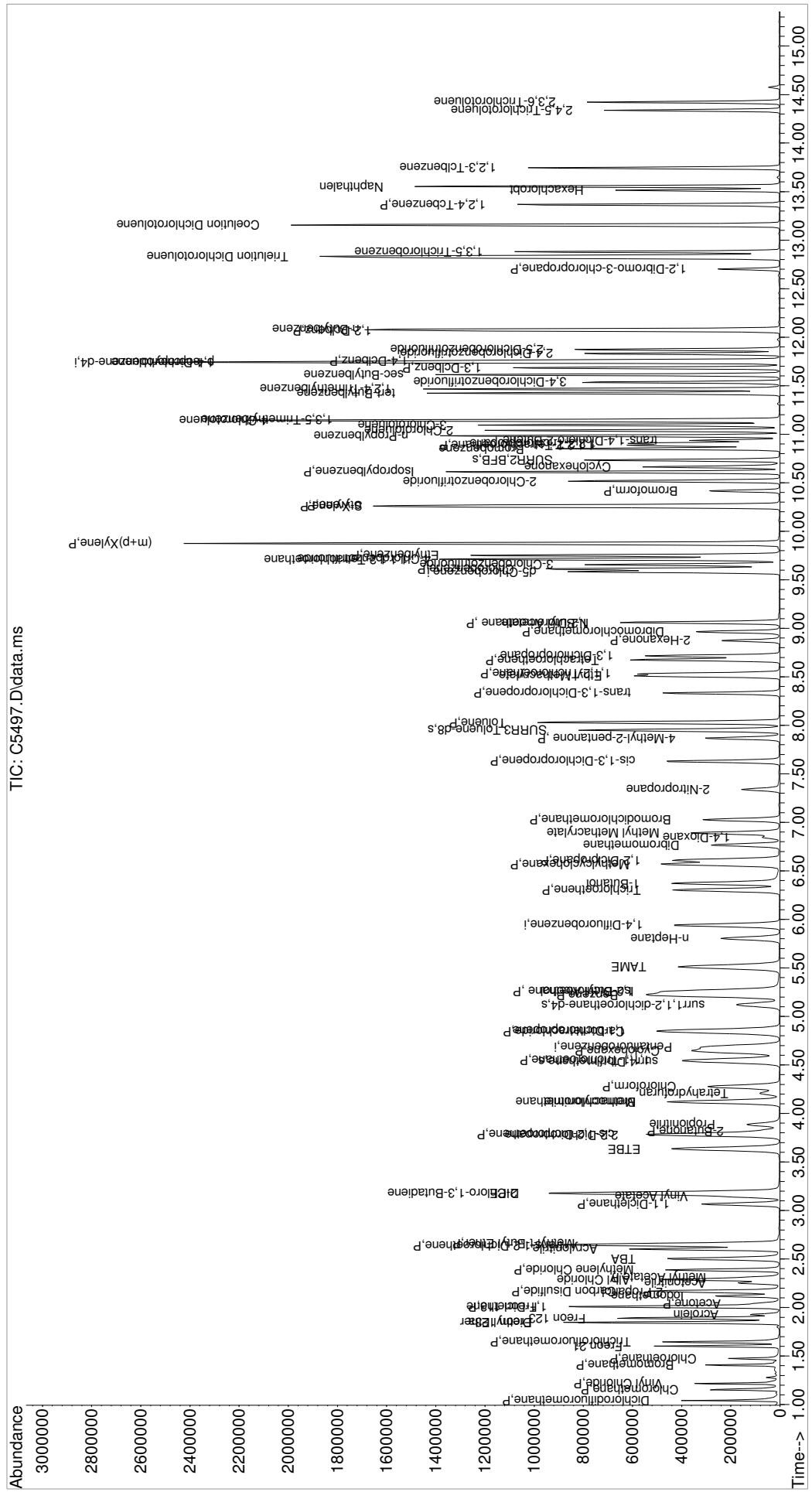
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\MSVOA14\Data\031318\  
 Data File : C5497.D  
 Acq On : 14 Mar 2018 7:06 am  
 Operator : F. NAEGLER  
 Sample : R1802137-002DMS|1.0  
 Misc : DAY 12666 T4  
 ALS Vial : 54 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 10:06:55 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1 i	Pentafluorobenzene	1.000	1.000	0.0	108	0.00	
2 P	Dichlorodifluoromethane	0.679	0.724	-6.6	107	0.00	
3 P	Chloromethane	0.780	0.699	10.4	99	0.00	
4 P	Vinyl Chloride	0.635	0.638	-0.5	104	0.00	
5 P	Bromomethane	0.419	0.404	-14.8	<del>3.6</del> 120	0.00	
6 P	Chloroethane	0.363	0.398	-9.6	109	0.00	
7	Freon 21	0.971	1.089	-12.2	117	0.00	
8 P	Trichlorofluoromethane	0.724	0.765	-5.7	104	0.00	
9	Diethyl Ether	0.460	0.492	-7.0	113	0.00	
10	Freon 123a	0.595	0.654	-9.9	114	0.00	
11	Freon 123	0.681	0.729	-7.0	109	0.00	
12	Acrolein	0.140	0.132	5.7	100	0.00	
13	1,1-Dicethene	0.460	0.435	5.4	99	0.00	
14 P	Freon 113	0.451	0.448	0.7	103	0.00	
15 P	Acetone	0.330	0.338	-2.4	117	0.00	
16	2-Propanol	0.064	0.051	20.3#	85	0.00	NT
17	Iodomethane	0.409	0.785	-76.7	<del>91.9#</del> 244#	0.00	NT
18 P	Carbon Disulfide	1.344	1.329	1.1	104	0.00	
19	Acetonitrile	0.057	0.054	5.3	102	0.00	
20	Allyl Chloride	0.222	0.240	-8.1	111	0.00	
21 P	Methyl Acetate	0.586	0.560	4.4	106	0.00	
22 P	Methylene Chloride	0.525	0.517	1.5	107	0.00	
23	TBA	0.108	0.086	20.4#	83	0.00	NT
24	Acrylonitrile	0.282	0.293	-3.9	111	0.00	
25 P	Methyl-t-Butyl Ether	1.757	1.812	-3.1	111	0.00	
26 P	trans-1,2-Dichloroethene	0.495	0.479	3.2	102	0.00	
27 P	1,1-Dicethane	0.916	0.935	-2.1	109	0.00	
28	Vinyl Acetate	0.128	0.091	30.3	<del>28.9#</del> 70	0.00	NT
29	DIPE	1.761	1.849	-5.0	113	0.00	
30	2-Chloro-1,3-Butadiene	0.797	0.950	-19.2	125	0.00	
31	ETBE	1.746	1.720	1.5	105	0.00	
32	2,2-Dichloropropane	0.805	0.640	20.5#	83	0.00	NT
33 P	cis-1,2-Dichloroethene	0.589	0.559	5.1	103	0.00	
34 P	2-Butanone	0.408	0.414	-1.5	111	0.00	
35	Propionitrile	0.124	0.120	3.2	104	0.00	
36	Bromochloromethane	0.358	0.363	-1.4	109	0.00	
37	Methacrylonitrile	0.295	0.285	3.4	103	0.00	
38	Tetrahydrofuran	0.257	0.246	4.3	107	0.00	
39 P	Chloroform	0.933	0.939	-0.6	109	0.00	
40 P	1,1,1-Trichloroethane	0.829	0.789	4.8	100	0.00	
41	TAME	1.736	1.627	6.3	100	0.00	
42 i	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00	
43 P	Cyclohexane	0.352	0.395	-12.2	116	0.00	
44 s	surr4,Dibrflmethane	0.332	0.330	0.6	110	0.00	
45 P	Carbontetrachloride	0.477	0.425	10.9	92	0.00	
46	1,1-Dichloropropene	0.489	0.469	4.1	103	0.00	
47 s	surr1,1,2-dichloroethane-d4	0.405	0.451	-11.4	122	0.00	
48 P	Benzene	1.376	1.327	3.6	103	0.00	
49 P	1,2-Dichloroethane	0.546	0.609	-11.5	121	0.00	
50	Iso-Butyl Alcohol	0.032	0.025	21.9#	79	0.00	NT
51	n-Heptane	0.447	0.380	15.0	92	0.00	



Evaluate Continuing Calibration Report

1st *FJ* 03/15/18  
 2nd *RL* 03/16/18

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
52	1-Butanol	0.020	0.014	30.0#	74	0.00	NT
53 P	Trichloroethene	0.382	0.376	1.6	106	0.00	
54 P	Methylcyclohexane	0.460	0.477	-3.7	107	0.00	
55 P	1,2-Diclp propane	0.371	0.374	-0.8	109	0.00	
56	Dibromomethane	0.251	0.259	-3.2	112	0.00	
57	1,4-Dioxane	0.008	0.007	12.5	93	0.00	
58	Methyl Methacrylate	0.343	0.322	6.1	101	0.00	
59 P	Bromodichloromethane	0.481	0.473	1.7	103	0.00	
60	2-Nitropropane	0.138	0.110	20.3#	82	0.00	NT
61	2-Chloroethylvinyl Ether	0.149	0.204	-36.9#	132	0.00	(1)
62 P	cis-1,3-Dichloropropene	0.606	0.581	4.1	100	0.00	
63 P	4-Methyl-2-pentanone	0.506	0.510	-0.8	109	0.00	
64 s	SURR3,Toluene-d8	1.248	1.249	-0.1	110	0.00	
65 P	Toluene	1.518	1.442	5.0	102	0.00	
66 P	trans-1,3-Dichloropropene	0.575	0.540	6.1	99	0.00	
67	Ethyl Methacrylate	0.581	0.552	5.0	99	0.00	
68 P	1,1,2-Trichloroethane	0.361	0.359	0.6	107	0.00	
69 s	SURR2,BFB	0.502	0.509	-1.4	112	0.00	
70 i	d5-Chlorobenzene	1.000	1.000	0.0	112	0.00	
71 P	Tetrachloroethene	0.348	0.305	12.4	96	0.00	
72 P	2-Hexanone	0.437	0.418	4.3	105	0.00	
73	1,3-Dichloropropene	0.706	0.714	-1.1	111	0.00	
74 P	Dibromochloromethane	0.447	0.413	7.6	98	0.00	
75	N-Butyl Acetate	0.892	0.837	6.2	101	0.00	
76 P	1,2-Dibromoethane	0.426	0.420	1.4	106	0.00	
77	3-Chlorobenzotrifluoride	0.678	0.563	17.0	93	0.00	
78 P	Chlorobenzene	1.143	1.064	6.9	102	0.00	
79	4-Chlorobenzotrifluoride	0.619	0.507	18.1	93	0.00	
80	1,1,1,2-Tetrachloroethane	0.416	0.373	10.3	96	0.00	
81 P	Ethylbenzene	0.602	0.553	8.1	100	0.00	
82 P	(m+p)Xylene	0.750	0.692	7.7	99	0.00	
83 P	o-Xylene	0.735	0.689	6.3	100	0.00	
84 P	Styrene	1.263	1.205	4.6	103	0.00	
85 P	Bromoform	0.327	0.277	15.3	90	0.00	
86	2-Chlorobenzotrifluoride	0.663	0.566	14.6	95	0.00	
87 P	Isopropylbenzene	1.937	1.759	9.2	98	0.00	
88	Cyclohexanone	0.107	0.127	-18.7	126	0.00	
89	trans-1,4-Dichloro-2-Butene	0.168	0.161	4.2	105	0.00	
90 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	
91 P	1,1,2,2-Tetrachloroethane	1.126	1.001	11.1	95	0.00	
92	Bromobenzene	0.908	0.867	4.5	103	0.00	
93	1,2,3-Trichloropropene	0.375	0.351	6.4	102	0.00	
94	n-Propylbenzene	3.950	3.667	7.2	99	0.00	
95	2-Chlorotoluene	2.390	2.251	5.8	103	0.00	
96	3-Chlorotoluene	2.578	2.422	6.1	105	0.00	
97	4-Chlorotoluene	2.804	2.706	3.5	105	0.00	
98	1,3,5-Trimethylbenzene	2.860	2.672	6.6	100	0.00	
99	tert-Butylbenzene	2.542	2.259	11.1	96	0.00	
100	1,2,4-Trimethylbenzene	2.923	2.684	8.2	98	0.00	
101	3,4-Dichlorobenzotrifluorid	0.987	0.782	20.8#	88	0.00	NT

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
102	sec-Butylbenzene	3.635	3.253	10.5	96	0.00	
103	p-Isopropyltoluene	3.140	2.764	12.0	94	0.00	
104 P	1,3-Dclbenz	1.722	1.591	7.6	101	0.00	
105 P	1,4-Dclbenz	1.788	1.631	8.8	102	0.00	
106	2,4-Dichlorobenzotrifluorid	0.897	0.700	22.0#	89	0.00	NT
107	2,5-Dichlorobenzotrifluorid	1.008	0.816	19.0	91	0.00	
108	n-Butylbenzene	2.791	2.489	10.8	96	0.00	
109 P	1,2-Dclbenz	1.705	1.622	4.9	103	0.00	
110 P	1,2-Dibromo-3-chloropropane	0.308	0.227	26.3#	77	0.00	(2)
111	Trielution Dichlorotoluene	1.573	1.355	13.9	96	0.00	
112	1,3,5-Trichlorobenzene	1.337	1.130	15.5	95	0.00	
113	Coelution Dichlorotoluene	1.710	1.528	10.6	99	0.00	
114 P	1,2,4-Tcbenzene	1.282	1.124	12.3	95	0.00	
115	Hexachlorobt	0.583	0.447	23.3#	85	0.00	NT
116	Naphthalen	3.853	3.490	9.4	96	0.00	
117	1,2,3-Tclbenzene	1.270	1.109	12.7	96	0.00	
118	2,4,5-Trichlorotoluene	0.948	0.684	27.8#	81	0.00	NT
119	2,3,6-Trichlorotoluene	0.871	0.648	25.6#	84	0.00	NT

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	276179	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	405810	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	367883	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	203549	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.535	113	134022	49.81	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.62%			
47) surr1,1,2-dichloroetha...	5.120	65	182862	55.69	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	111.38%			
64) SURR3,Toluene-d8	7.949	98	506808	50.04	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	100.08%			
69) SURR2,BFB	10.735	95	206559	50.74	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	101.48%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	199871	53.33	ug/L		99
3) Chloromethane	1.151	50	193049	44.81	ug/L		100
4) Vinyl Chloride	1.218	62	176306	50.30	ug/L		100
5) Bromomethane	1.407	94	111704	57.39	ug/L		98
6) Chloroethane	1.475	64	109963	54.89	ug/L		99
7) Freon 21	1.603	67	300813	56.08	ug/L		99
8) Trichlorofluoromethane	1.645	101	211170	52.83	ug/L		97
9) Diethyl Ether	1.846	59	135946	53.50	ug/L		97
10) Freon 123a	1.846	67	180576	54.90	ug/L		94
11) Freon 123	1.889	83	201387	53.50	ug/L		98
12) Acrolein	1.926	56	182929	236.28	ug/L		99
13) 1,1-Diclcethene	2.005	96	120027	47.26	ug/L		90
14) Freon 113	2.011	101	123738	49.64	ug/L		97
15) Acetone	2.041	43	93385	51.30	ug/L		94
16) 2-Propanol	2.157	45	282978	800.66	ug/L		95
17) Iodomethane	2.121	142	216867	88.34	ug/L		97
18) Carbon Disulfide	2.170	76	367162	49.47	ug/L		98
19) Acetonitrile	2.255	40	74276	236.00	ug/L		99
20) Allyl Chloride	2.291	76	66166	53.97	ug/L	#	86
21) Methyl Acetate	2.310	43	154543	47.74	ug/L		99
22) Methylene Chloride	2.389	84	142913	49.28	ug/L		90
23) TBA	2.505	59	473032	793.31	ug/L		94
24) Acrylonitrile	2.602	53	405286	260.41	ug/L		98
25) Methyl-t-Butyl Ether	2.651	73	500460	51.58	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	132321	48.39	ug/L		91
27) 1,1-Diclcethane	3.066	63	258183	51.05	ug/L		99
28) Vinyl Acetate	3.145	86	25158	34.84	ug/L	#	76
29) DIPE	3.182	45	510617	52.49	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.175	53	262271	59.60	ug/L		91
31) ETBE	3.639	59	475104	49.27	ug/L		98
32) 2,2-Dichloropropane	3.779	77	176847	39.76	ug/L		98
33) cis-1,2-Dichloroethene	3.785	96	154261	47.38	ug/L		94
34) 2-Butanone	3.822	43	114402	50.77	ug/L		99
35) Propionitrile	3.883	54	165695	242.10	ug/L		99
36) Bromochloromethane	4.120	130	100307	50.72	ug/L	#	85
37) Methacrylonitrile	4.120	67	78740	48.40	ug/L		91
38) Tetrahydrofuran	4.206	42	67981	47.96	ug/L		98
39) Chloroform	4.279	83	259424	50.36	ug/L		97
40) 1,1,1-Trichloroethane	4.553	97	217876	47.59	ug/L		98

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	449292	46.85	ug/L	96
43) Cyclohexane	4.639	41	160388	56.13	ug/L	98
45) Carbontetrachloride	4.846	117	172400	44.55	ug/L	98
46) 1,1-Dichloropropene	4.858	75	190332	47.98	ug/L	97
48) Benzene	5.218	78	538600	48.22	ug/L	97
49) 1,2-Dichloroethane	5.260	62	247131	55.72	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	199072	757.40	ug/L	100
51) n-Heptane	5.803	43	154058	42.43	ug/L	97
52) 1-Butanol	6.370	56	287161	1810.08	ug/L	94
53) Trichloroethene	6.303	130	152600	49.16	ug/L	99
54) Methylcyclohexane	6.571	55	193719	51.90	ug/L	92
55) 1,2-Diclpropane	6.614	63	151929	50.41	ug/L	99
56) Dibromomethane	6.766	93	104971	51.56	ug/L	90
57) 1,4-Dioxane	6.845	88	57787	848.91	ug/L	100
58) Methyl Methacrylate	6.894	69	130872	46.98	ug/L	96
59) Bromodichloromethane	7.028	83	192046	49.24	ug/L	99
60) 2-Nitropropane	7.339	41	89457	79.60	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	82655	68.51	ug/L	98
62) cis-1,3-Dichloropropene	7.632	75	235837	47.91	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	207011	50.40	ug/L	98
65) Toluene	8.028	91	585343	47.51	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	219330	47.01	ug/L	98
67) Ethyl Methacrylate	8.510	69	224086	47.53	ug/L	92
68) 1,1,2-Trichloroethane	8.534	97	145565	49.64	ug/L	97
71) Tetrachloroethene	8.674	164	112063	43.73	ug/L	98
72) 2-Hexanone	8.876	43	153955	47.93	ug/L	95
73) 1,3-Dichloropropane	8.717	76	262603	50.55	ug/L	96
74) Dibromochloromethane	8.967	129	151877	46.17	ug/L	98
75) N-Butyl Acetate	9.058	43	307875	46.92	ug/L	97
76) 1,2-Dibromoethane	9.065	107	154332	49.27	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	207016	41.51	ug/L	98
78) Chlorobenzene	9.613	112	391590	46.58	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	186693	41.02	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.711	131	137062	44.73	ug/L	99
81) Ethylbenzene	9.753	106	203394	45.91	ug/L	92
82) (m+p)Xylene	9.875	106	508906	92.18	ug/L	97
83) o-Xylene	10.253	106	253356	46.88	ug/L	93
84) Styrene	10.265	104	443263	47.68	ug/L	98
85) Bromoform	10.418	173	102063	42.42	ug/L	98
86) 2-Chlorobenzotrifluoride	10.522	180	208187	42.70	ug/L	99
87) Isopropylbenzene	10.613	105	647043	45.40	ug/L	100
88) Cyclohexanone	10.662	55	934235	1188.52	ug/L	95
89) trans-1,4-Dichloro-2-B...	10.936	53	59226	47.87	ug/L	85
91) 1,1,2,2-Tetrachloroethane	10.887	83	203706	44.46	ug/L	97
92) Bromobenzene	10.851	156	176430	47.71	ug/L	96
93) 1,2,3-Trichloropropane	10.906	110	71400	46.78	ug/L	97
94) n-Propylbenzene	10.985	91	746475	46.42	ug/L	98
95) 2-Chlorotoluene	11.040	91	458203	47.10	ug/L	98
96) 3-Chlorotoluene	11.095	91	492918	46.97	ug/L	98
97) 4-Chlorotoluene	11.137	91	550794	48.24	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	543838	46.71	ug/L	96
99) tert-Butylbenzene	11.424	119	459765	44.42	ug/L	99
100) 1,2,4-Trimethylbenzene	11.466	105	546317	45.91	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	159236	39.63	ug/L	98
102) sec-Butylbenzene	11.613	105	662207	44.75	ug/L	99
103) p-Isopropyltoluene	11.741	119	562551	44.00	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV Inst : MSVOA14  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

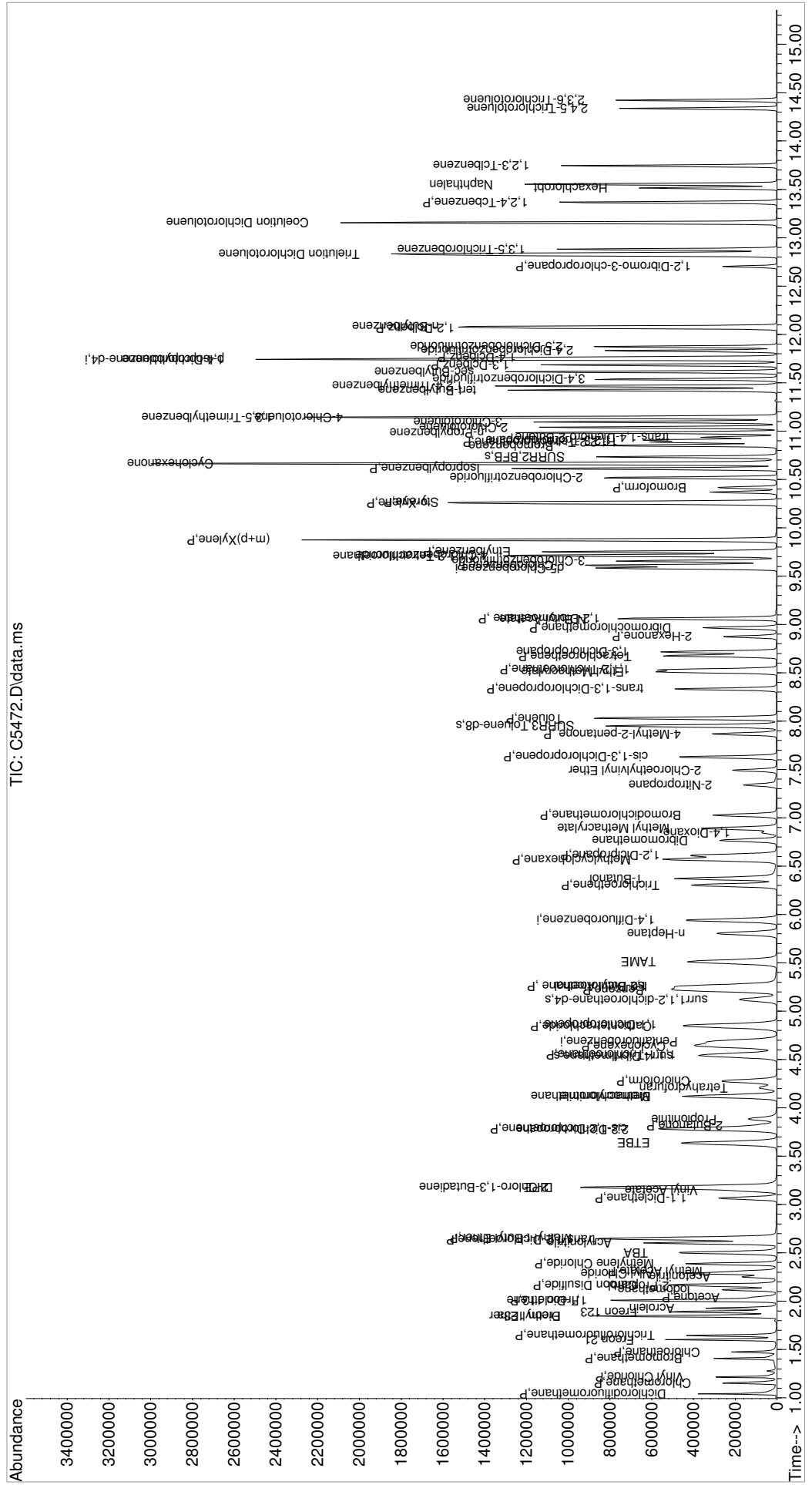
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	323830	46.20	ug/L	98
105) 1,4-Dclbenz	11.765	146	332019	45.61	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	142562	39.05	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.875	214	166035	40.47	ug/L	99
108) n-Butylbenzene	12.082	91	506698	44.59	ug/L	100
109) 1,2-Dclbenz	12.070	146	330158	47.56	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.704	157	46144	36.84	ug/L	94
111) Trielution Dichlorotol...	12.832	125	827677	129.25	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	229951	42.25	ug/L	99
113) Coelution Dichlorotoluene	13.155	125	622081	89.34	ug/L	99
114) 1,2,4-Tcbenzene	13.369	180	228761	43.85	ug/L	100
115) Hexachlorobt	13.515	225	91055	38.37	ug/L	97
116) Naphthalen	13.551	128	710423	45.30	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	225775	43.66	ug/L	100
118) 2,4,5-Trichlorotoluene	14.338	159	139215	36.06	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	131869	37.19	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\031318\  
 Data File : C5472.D  
 Acq On : 13 Mar 2018 9:50 pm  
 Operator : F. NAEGLER  
 Sample : CCV  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Inst : MSVOA14

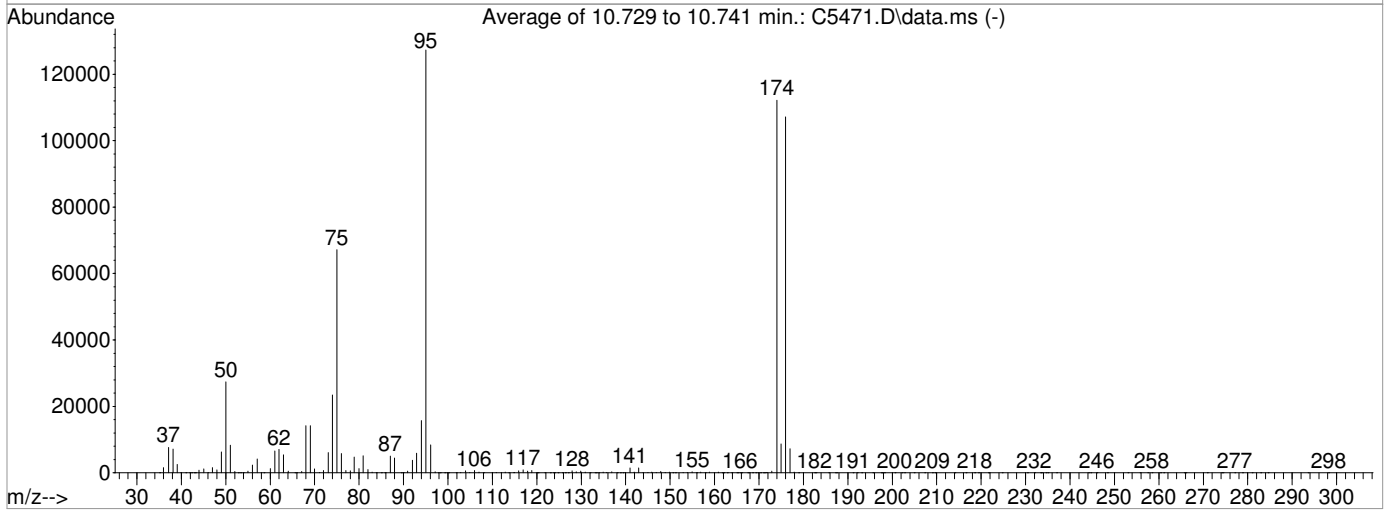
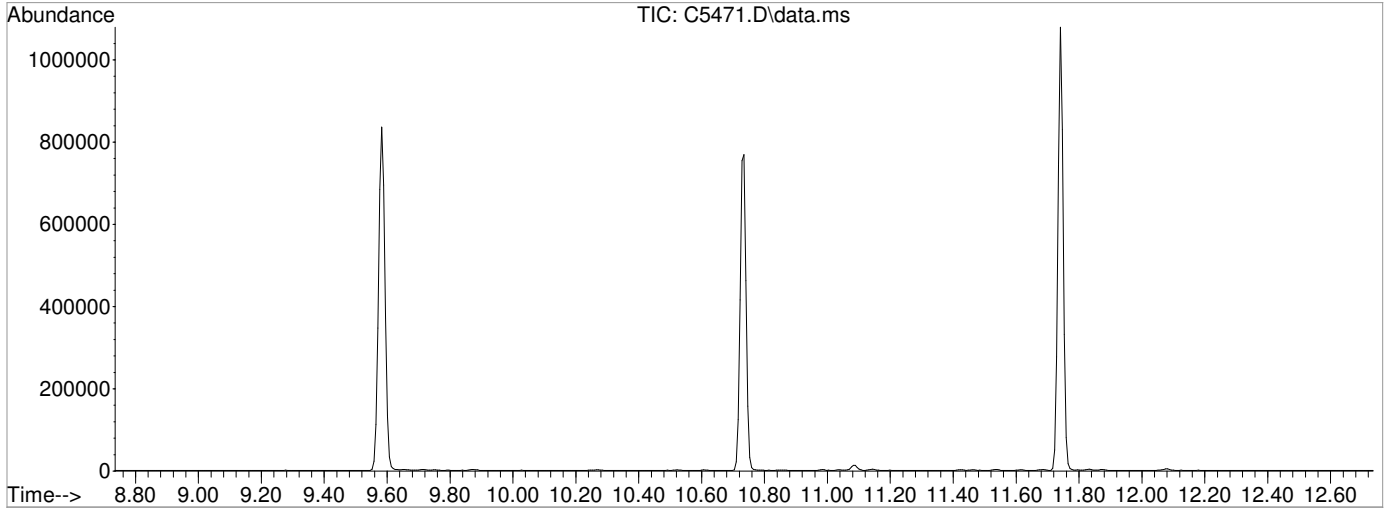
Quant Time: Mar 14 09:16:59 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318A.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\031318\  
Data File : C5471.D  
Acq On : 13 Mar 2018 9:27 pm  
Operator : F. NAEGLER  
Sample : TUNE  
Misc :  
ALS Vial : 28 Sample Multiplier: 1  
Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W012318A.m  
Title : MS#14 - 8260 WATERS 5mL Purge  
Last Update : Tue Jan 23 16:52:42 2018



AutoFind: Scans 1598, 1599, 1600; Background Corrected with Scan 1592

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	27340	PASS
75	95	30	60	52.8	67219	PASS
95	95	100	100	100.0	127315	PASS
96	95	5	9	6.6	8367	PASS
173	174	0.00	2	0.4	464	PASS
174	95	50	120	88.1	112147	PASS
175	174	5	9	7.7	8656	PASS
176	174	95	101	95.6	107211	PASS
177	176	5	9	6.7	7235	PASS



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	250109	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	366226	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	329793	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	181483	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	118069	48.62	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	97.24%		
47) surr1,1,2-dichloroetha...	5.120	65	144832	48.87	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	97.74%		
64) SURR3,Toluene-d8	7.949	98	448746	49.10	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.20%		
69) SURR2,BFB	10.735	95	180037	49.01	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.02%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	154152	45.42	ug/L	99
3) Chloromethane	1.151	50	181394	46.49	ug/L	98
4) Vinyl Chloride	1.212	62	162267	51.12	ug/L	100
5) Bromomethane	1.401	94	80237	43.77	ug/L	97
6) Chloroethane	1.474	64	96177	53.01	ug/L	98
7) Freon 21	1.603	67	251015	51.67	ug/L	98
8) Trichlorofluoromethane	1.645	101	196521	54.29	ug/L	99
9) Diethyl Ether	1.846	59	117493	51.05	ug/L	99
10) Freon 123a	1.846	67	165728	55.64	ug/L	100
11) Freon 123	1.889	83	182777	53.62	ug/L	98
12) Acrolein	1.932	56	63481	90.54	ug/L	96
13) 1,1-Diclcethene	2.005	96	115509	50.22	ug/L	100
14) Freon 113	2.011	101	115496	51.17	ug/L	99
15) Acetone	2.048	43	83056	50.39	ug/L	98
16) 2-Propanol	2.163	45	319114	997.02	ug/L	100
17) Iodomethane	2.121	142	107151	55.60	ug/L	99
18) Carbon Disulfide	2.169	76	347316	51.68	ug/L	99
19) Acetonitrile	2.255	40	72858	255.62	ug/L	99
20) Allyl Chloride	2.291	76	68706	61.89	ug/L	97
21) Methyl Acetate	2.310	43	140335	47.87	ug/L	100
22) Methylene Chloride	2.389	84	128845	49.06	ug/L	98
23) TBA	2.511	59	528275	978.31	ug/L	99
24) Acrylonitrile	2.602	53	359117	254.80	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	436111	49.63	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	126960	51.27	ug/L	100
27) 1,1-Diclcethane	3.066	63	233699	51.03	ug/L	98
28) Vinyl Acetate	3.145	86	30768	46.31	ug/L	99
29) DIPE	3.181	45	409637	46.50	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.175	53	213305	53.53	ug/L	99
31) ETBE	3.639	59	407615	46.67	ug/L	98
32) 2,2-Dichloropropane	3.779	77	196895	48.88	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	146219	49.59	ug/L	99
34) 2-Butanone	3.828	43	104467	51.20	ug/L	98
35) Propionitrile	3.889	54	152919	246.72	ug/L	98
36) Bromochloromethane	4.120	130	88922	49.65	ug/L	95
37) Methacrylonitrile	4.120	67	74294	50.43	ug/L	99
38) Tetrahydrofuran	4.212	42	61437	47.86	ug/L	99
39) Chloroform	4.279	83	237321	50.87	ug/L	99
40) 1,1,1-Trichloroethane	4.553	97	211709	51.06	ug/L	97



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	409445	47.15	ug/L	99
43) Cyclohexane	4.645	41	125653	48.73	ug/L	99
45) Carbontetrachloride	4.846	117	177658	50.88	ug/L	97
46) 1,1-Dichloropropene	4.852	75	180521	50.43	ug/L	97
48) Benzene	5.224	78	509766	50.57	ug/L	100
49) 1,2-Dichloroethane	5.260	62	200453	50.08	ug/L	99
50) Iso-Butyl Alcohol	5.266	43	231428	975.68	ug/L	100
51) n-Heptane	5.803	43	161623	49.32	ug/L	97
52) 1-Butanol	6.376	56	372300	2600.40	ug/L	99
53) Trichloroethene	6.303	130	143454	51.21	ug/L	98
54) Methylcyclohexane	6.571	55	166436	49.41	ug/L	99
55) 1,2-Diclpropane	6.614	63	138100	50.77	ug/L	97
56) Dibromomethane	6.766	93	91752	49.94	ug/L	99
57) 1,4-Dioxane	6.851	88	59305	965.38	ug/L	97
58) Methyl Methacrylate	6.894	69	126465	50.30	ug/L	99
59) Bromodichloromethane	7.028	83	183695	52.19	ug/L	99
60) 2-Nitropropane	7.339	41	103419	101.97	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	61079	56.10	ug/L	98
62) cis-1,3-Dichloropropene	8.333	75	217574	51.67	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	185404	50.02	ug/L	97
65) Toluene	8.034	91	555990	50.01	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	217574	51.67	ug/L	98
67) Ethyl Methacrylate	8.510	69	220733	51.87	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	134050	50.65	ug/L	99
71) Tetrachloroethene	8.674	164	112425	48.94	ug/L	99
72) 2-Hexanone	8.875	43	144802	50.29	ug/L	99
73) 1,3-Dichloropropane	8.717	76	231549	49.72	ug/L	99
74) Dibromochloromethane	8.967	129	149260	50.62	ug/L	97
75) N-Butyl Acetate	9.058	43	298133	50.69	ug/L	99
76) 1,2-Dibromoethane	9.064	107	143400	51.07	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	193425	43.26	ug/L	100
78) Chlorobenzene	9.613	112	376046	49.90	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	174422	42.75	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	139927	50.94	ug/L	96
81) Ethylbenzene	9.753	106	198155	49.89	ug/L	99
82) (m+p)Xylene	9.875	106	491929	99.40	ug/L	99
83) o-Xylene	10.253	106	240655	49.67	ug/L	98
84) Styrene	10.265	104	418063	50.17	ug/L	98
85) Bromoform	10.418	173	108093	50.12	ug/L	97
86) 2-Chlorobenzotrifluoride	10.521	180	194213	44.43	ug/L	99
87) Isopropylbenzene	10.613	105	621531	48.65	ug/L	100
88) Cyclohexanone	10.662	55	682380	968.38	ug/L	100
89) trans-1,4-Dichloro-2-B...	10.936	53	63047	56.85	ug/L	97
91) 1,1,2,2-Tetrachloroethane	10.887	83	202886	49.66	ug/L	99
92) Bromobenzene	10.851	156	166397	50.47	ug/L	98
93) 1,2,3-Trichloropropane	10.912	110	67301	49.46	ug/L #	87
94) n-Propylbenzene	10.985	91	711065	49.59	ug/L	99
95) 2-Chlorotoluene	11.040	91	446021	51.42	ug/L	100
96) 3-Chlorotoluene	11.095	91	429840	45.94	ug/L	99
97) 4-Chlorotoluene	11.137	91	509405	50.04	ug/L	99
98) 1,3,5-Trimethylbenzene	11.149	105	529166	50.98	ug/L	99
99) tert-Butylbenzene	11.424	119	452000	48.98	ug/L	100
100) 1,2,4-Trimethylbenzene	11.466	105	538209	50.73	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	158653	44.28	ug/L	98
102) sec-Butylbenzene	11.613	105	661059	50.11	ug/L	99
103) p-Isopropyltoluene	11.741	119	576841	50.61	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV Inst : MSVOA14  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

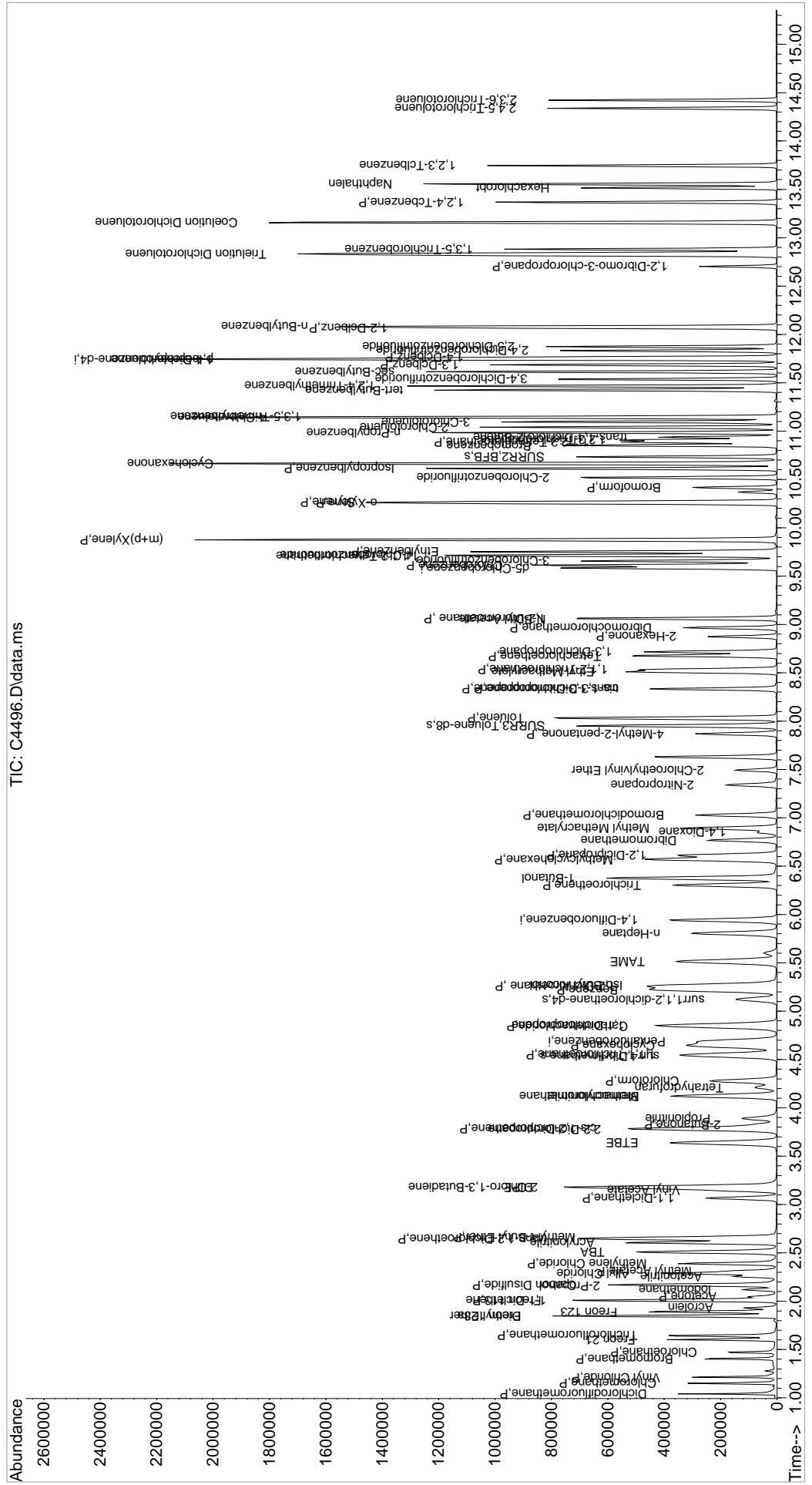
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	316295	50.61	ug/L	99
105) 1,4-Dclbenz	11.765	146	317394	48.90	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	142441	43.76	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	163750	44.77	ug/L	98
108) n-Butylbenzene	12.082	91	519356	51.26	ug/L	99
109) 1,2-Dclbenz	12.070	146	311687	50.36	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	53226	47.66	ug/L	98
111) Trielution Dichlorotol...	12.832	125	791385	138.60	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	219414	45.22	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	585730	94.35	ug/L	99
114) 1,2,4-Tcbenzene	13.368	180	230219	49.49	ug/L	99
115) Hexachlorobt	13.515	225	98209	46.42	ug/L	99
116) Naphthalen	13.557	128	732910	52.41	ug/L	99
117) 1,2,3-Tclbenzene	13.746	180	227232	49.29	ug/L	100
118) 2,4,5-Trichlorotoluene	14.338	159	159258	46.26	ug/L	100
119) 2,3,6-Trichlorotoluene	14.423	159	144240	45.63	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4496.D  
 Acq On : 23 Jan 2018 5:06 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB ICV  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA14

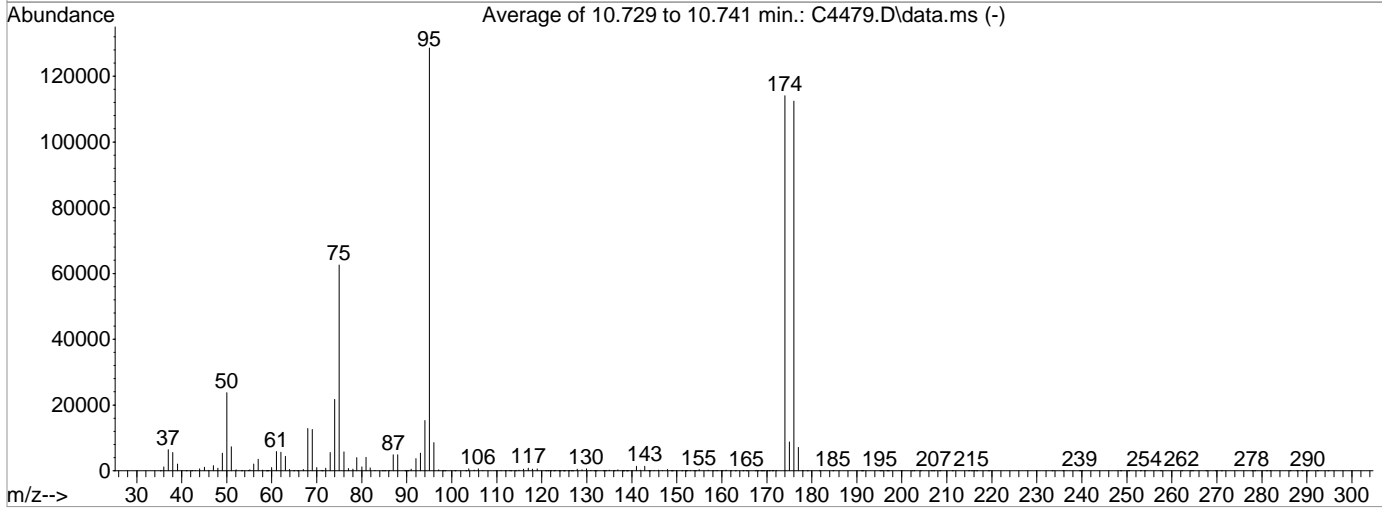
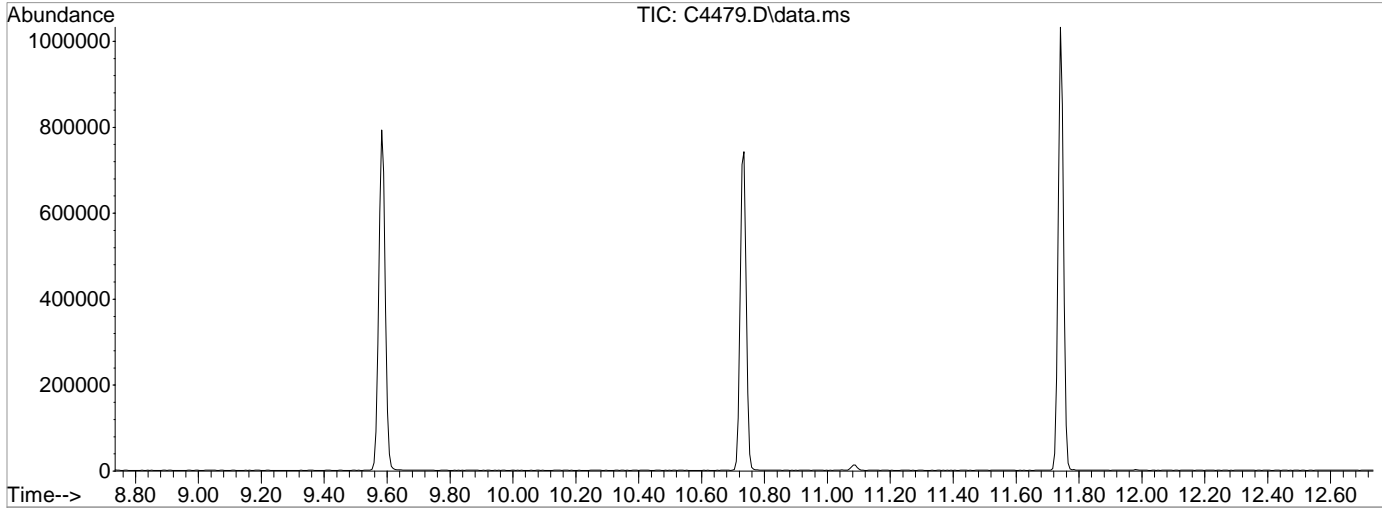
Quant Time: Jan 24 09:24:47 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4479.D  
 Acq On : 23 Jan 2018 10:35 am  
 Operator : F. NAEGLER  
 Sample : TUNE  
 Misc :  
 ALS Vial : 1 Sample Multiplier: 1  
 Inst : MSVOA14

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Title : MS#14 - 8260 WATERS 5mL Purge  
 Last Update : Fri Dec 15 08:31:16 2017



AutoFind: Scans 1598, 1599, 1600; Background Corrected with Scan 1592

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.5	23766	PASS
75	95	30	60	48.7	62585	PASS
95	95	100	100	100.0	128560	PASS
96	95	5	9	6.7	8578	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.7	114064	PASS
175	174	5	9	7.7	8809	PASS
176	174	95	101	98.5	112387	PASS
177	176	5	9	6.3	7085	PASS

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4480.D  
 Acq On : 23 Jan 2018 11:05 am  
 Operator : F. NAEGLER  
 Sample : ICAL BLK Inst : MSVOA14  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 24 09:56:57 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:52:42 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	278746	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	407968	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	358247	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	196639	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	132267	48.90	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.80%	
47) surr1,1,2-dichloroetha...	5.120	65	164596	49.86	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	99.72%	
64) SURR3,Toluene-d8	7.949	98	499239	49.03	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.06%	
69) SURR2,BFB	10.735	95	204542	49.98	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.96%	
Target Compounds						
5) Bromomethane	1.407	94	508	Below Cal	Qvalue #	79

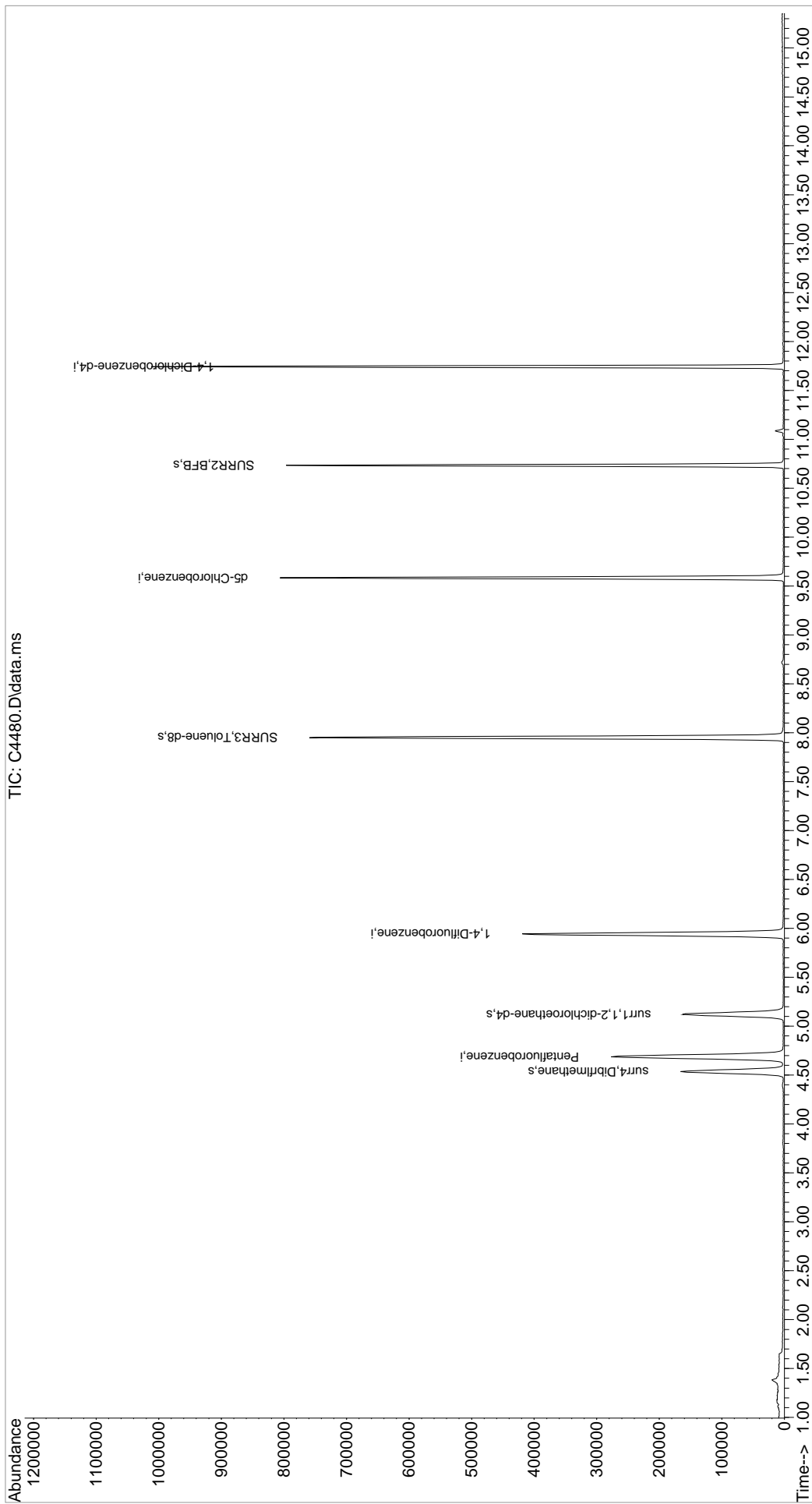
(#) = qualifier out of range (m) = manual integration (+) = signals summed

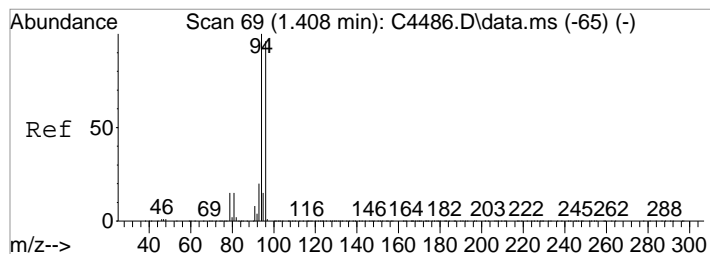
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4480.D  
Acq On : 23 Jan 2018 11:05 am  
Operator : F. NAEGLER  
Sample : ICAL BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA14

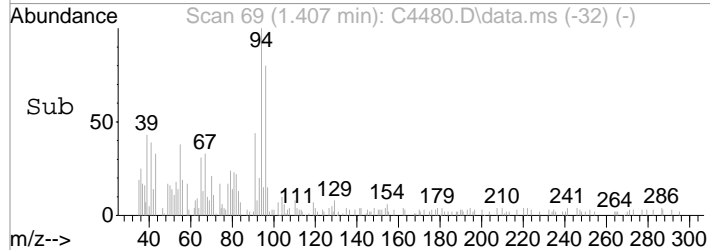
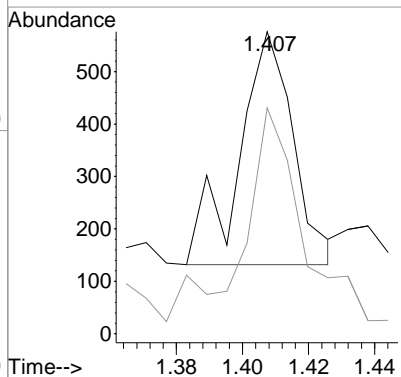
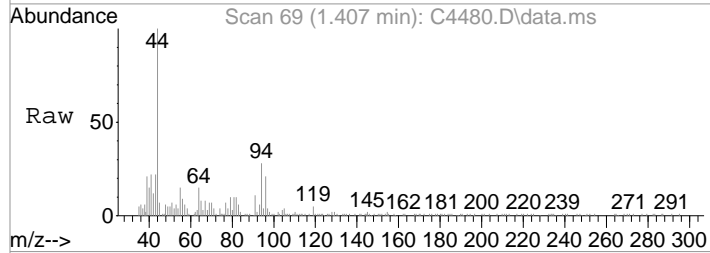
Quant Time: Jan 24 09:56:57 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:52:42 2018  
Response via : Initial Calibration





#5  
Bromomethane  
Concen: Below Cal  
RT: 1.407 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: C4480.D  
Acq: 23 Jan 2018 11:05 am

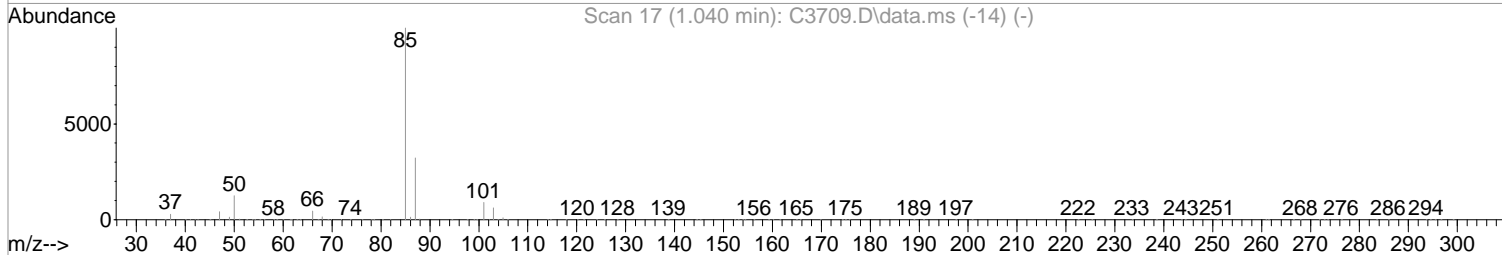
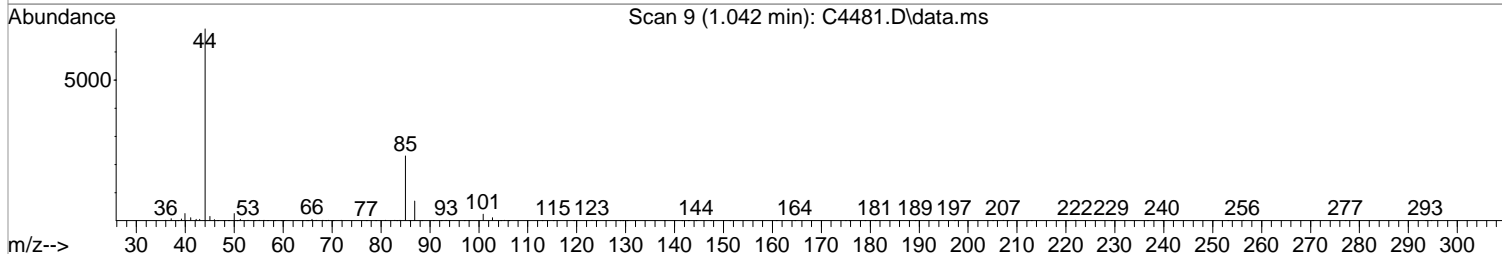
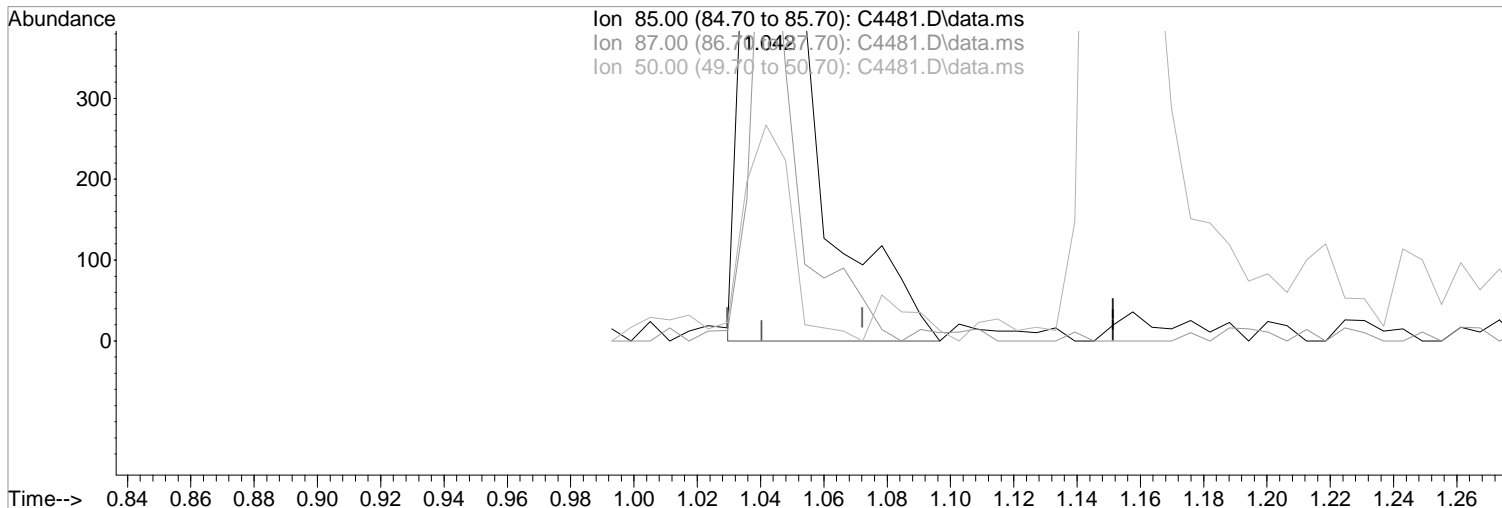
Tgt Ion: 94 Resp: 508  
Ion Ratio Lower Upper  
94 100  
96 74.8 75.8 115.8#



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(2) Dichlorodifluoromethane (P)

1.042min (+0.001) 0.62 ug/L m  
response 1776

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.44
50.00	12.50	11.10
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

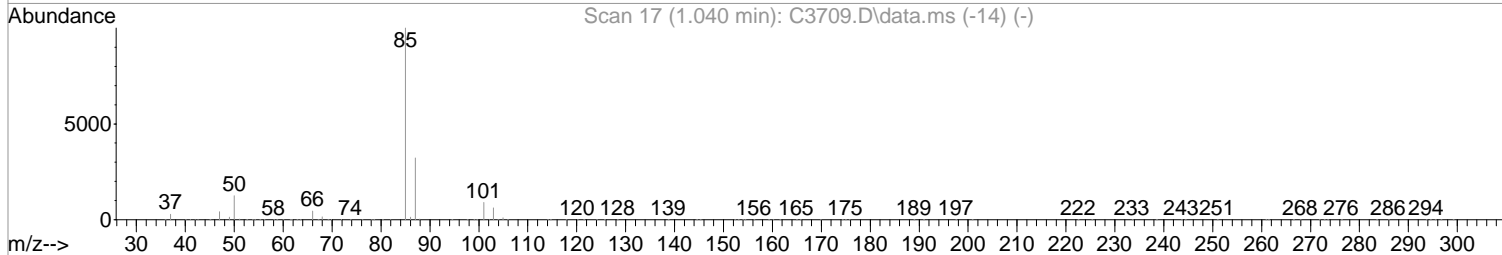
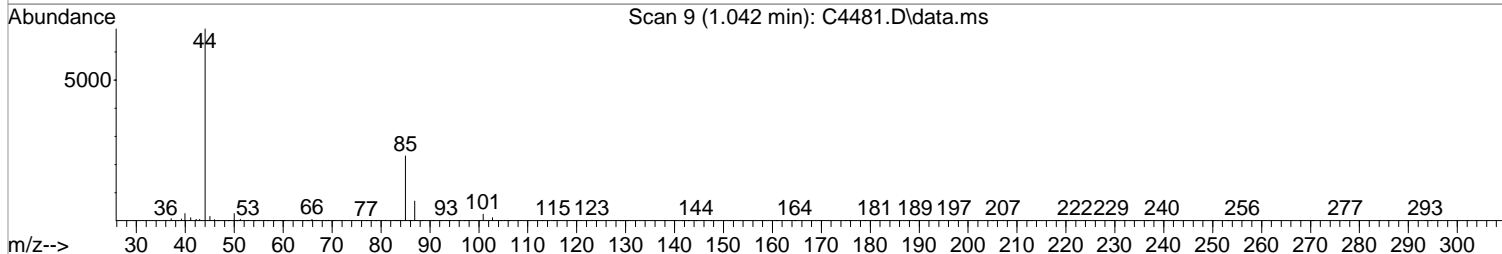
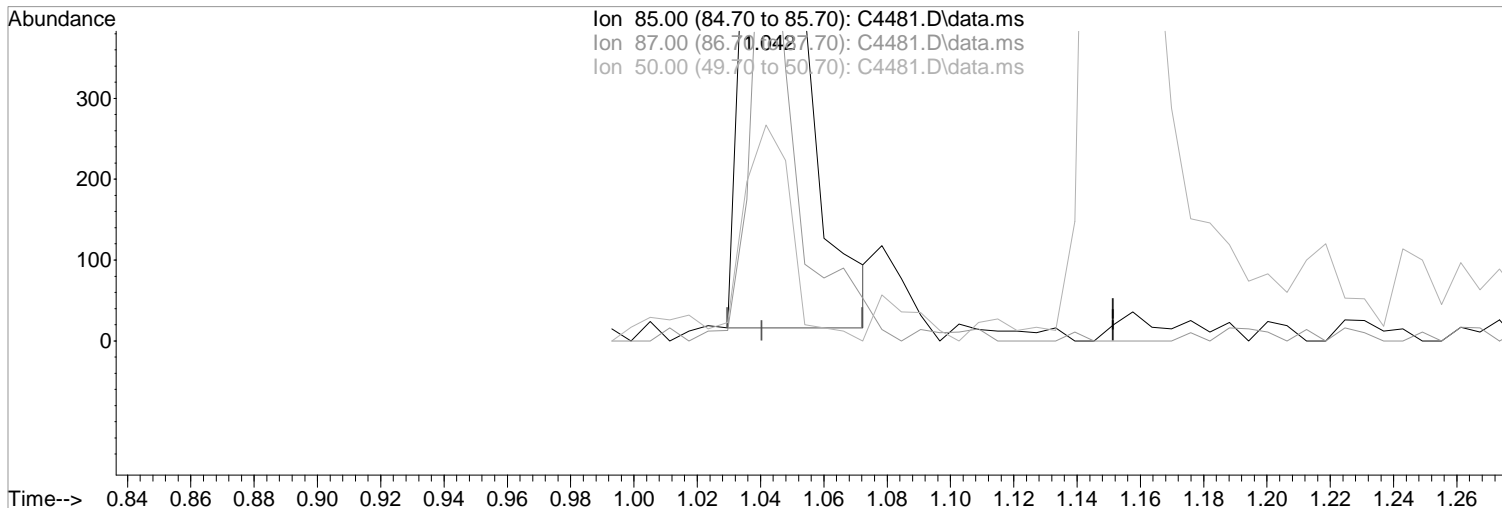
01/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(2) Dichlorodifluoromethane (P)

Manual Integration:

1.042min (+0.001) 0.58 ug/L

Before

response 1652

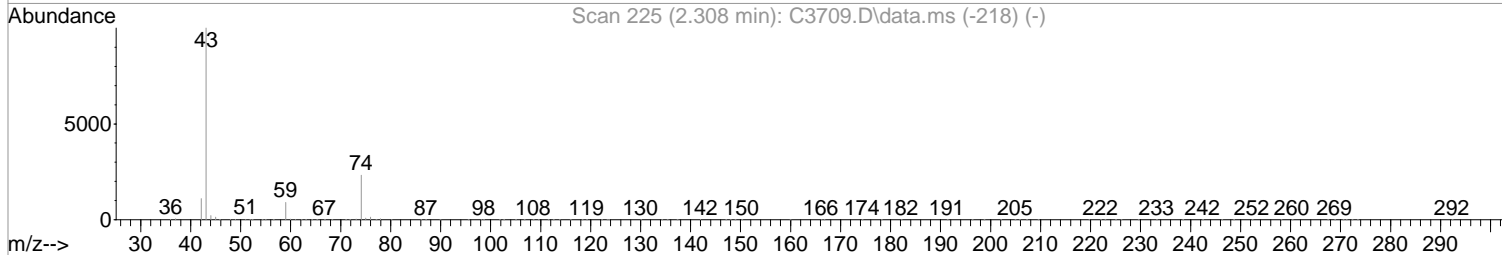
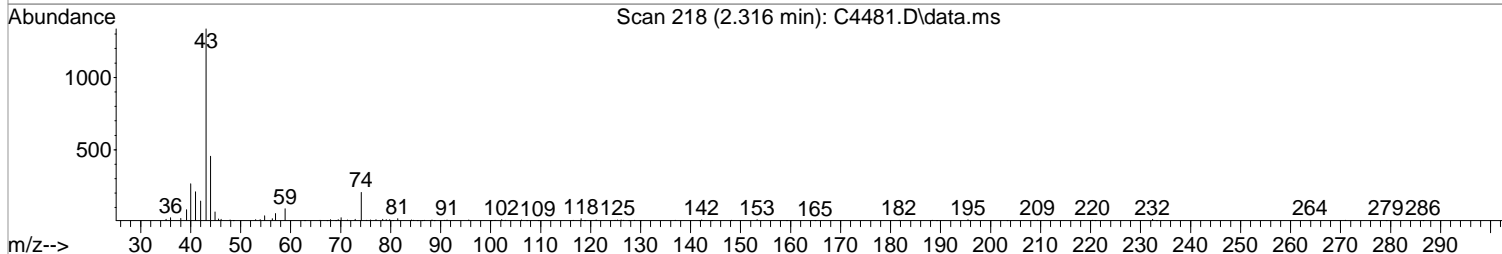
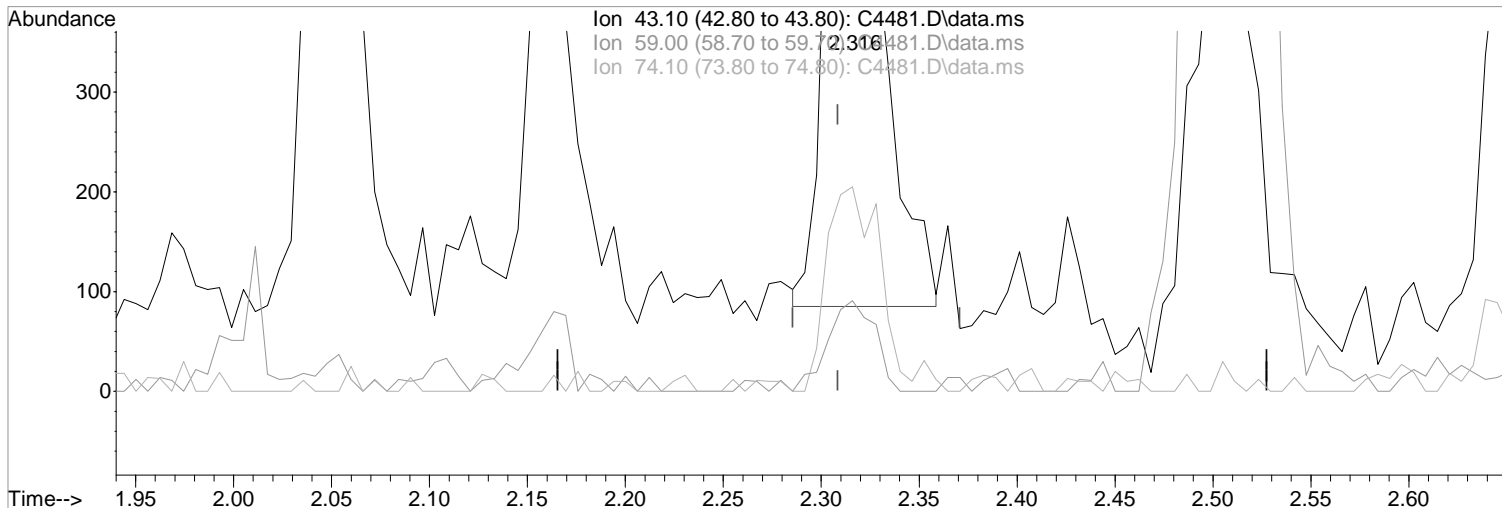
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	30.44
50.00	12.50	11.58
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(21) Methyl Acetate (P)  
2.316min (+0.007) 0.74 ug/L m  
response 1772

Manual Integration:

After

Poor integration.

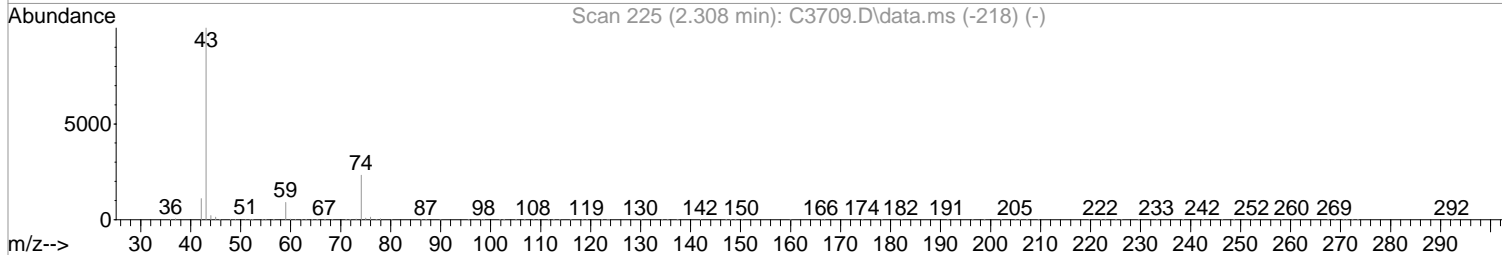
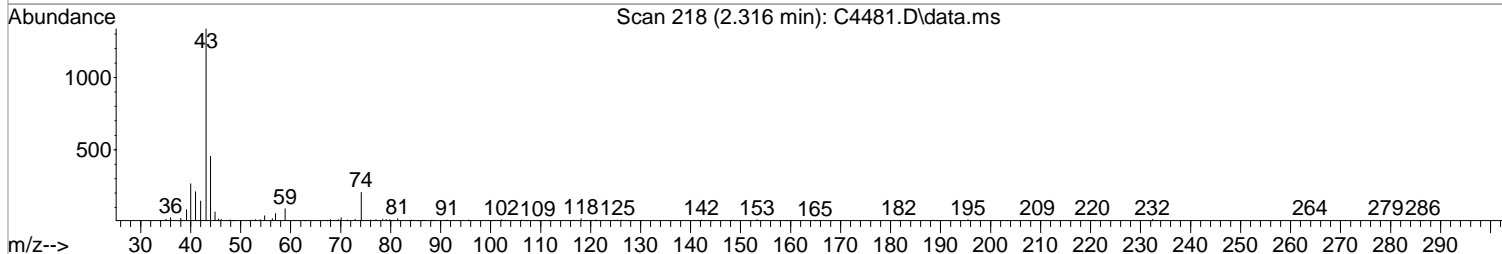
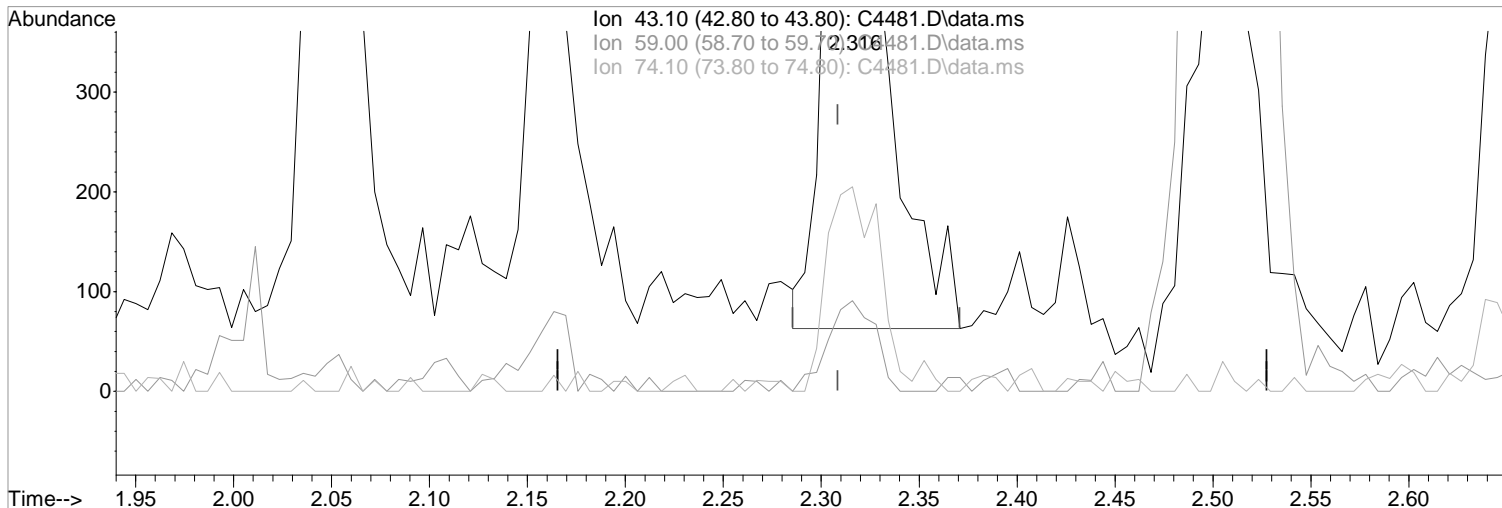
01/23/18

Ion	Exp%	Act%
43.10	100	100
59.00	9.00	6.81
74.10	23.10	15.34
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

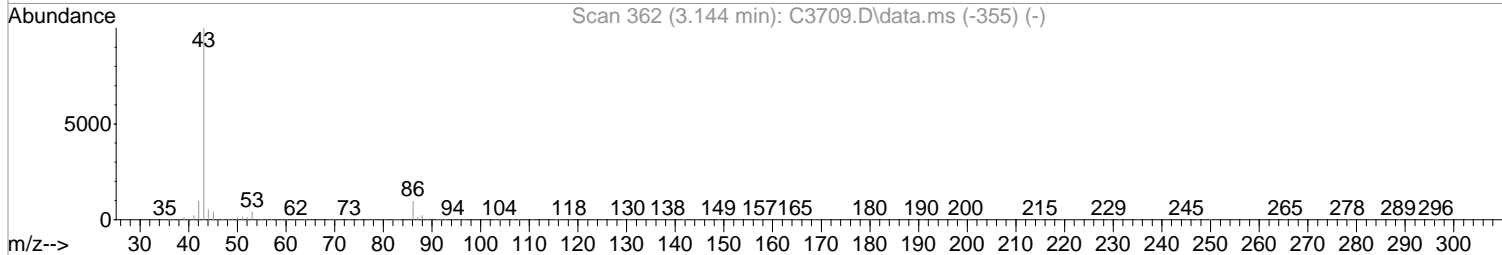
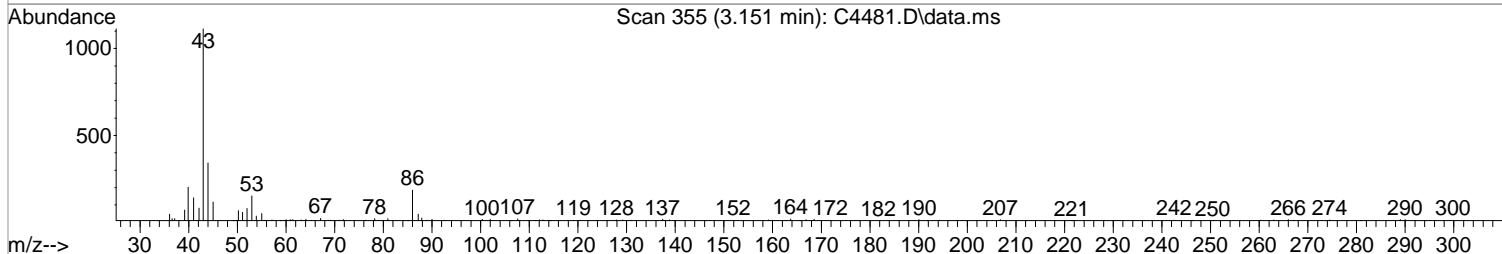
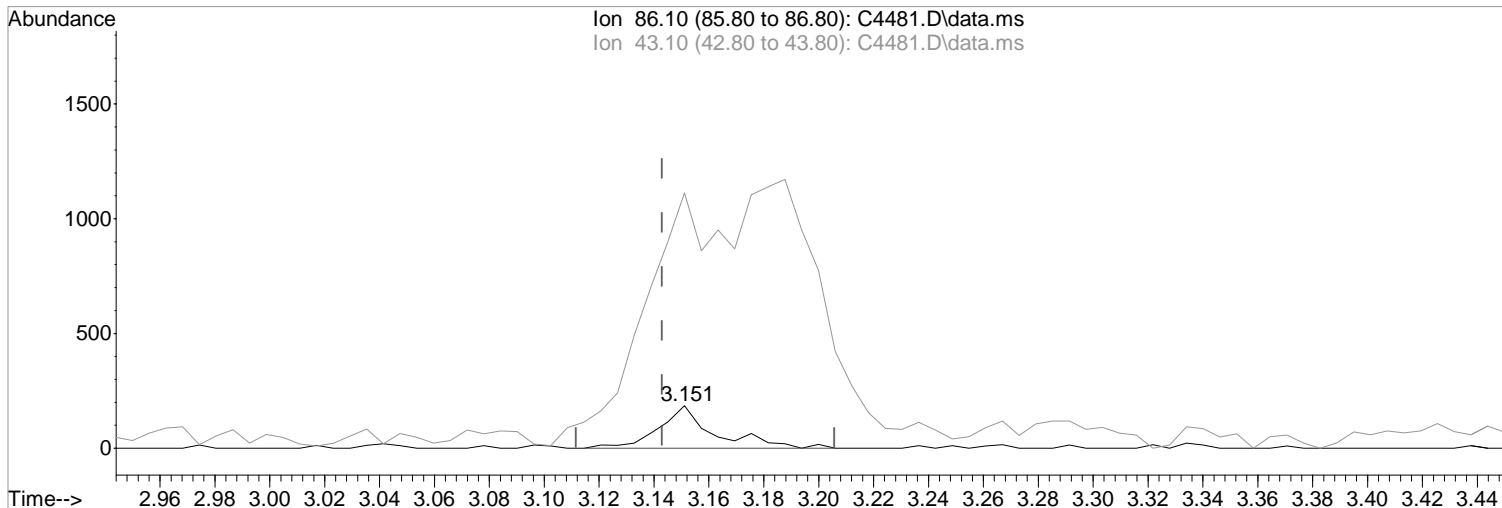
(21) Methyl Acetate (P)
2.316min (+0.007) 0.80 ug/L
response 1906
Ion Exp% Act%
43.10 100 100
59.00 9.00 6.81
74.10 23.10 15.34
0.00 0.00 0.00

Manual Integration:  
Before  
01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(28) Vinyl Acetate  
3.151min (+0.008) 0.59 ug/L m  
response 259

Manual Integration:  
After  
Peak not found.

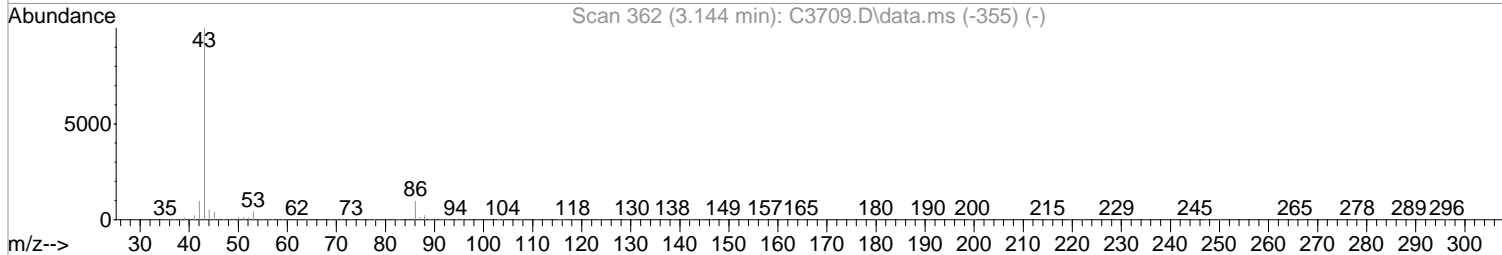
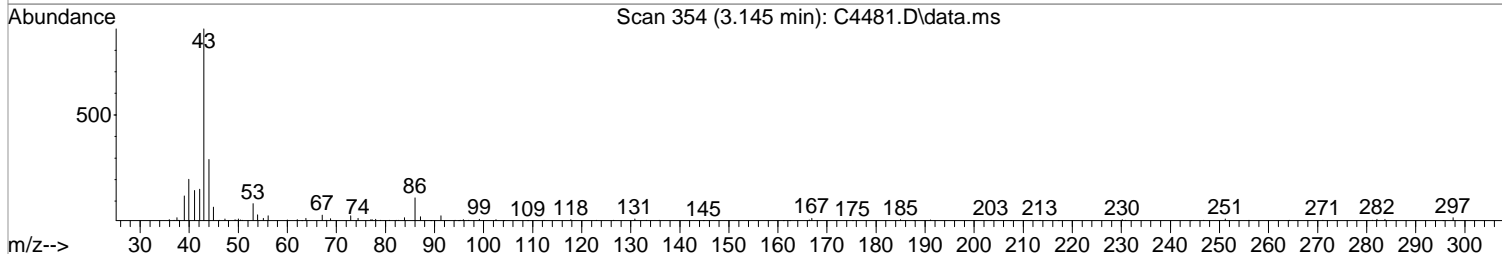
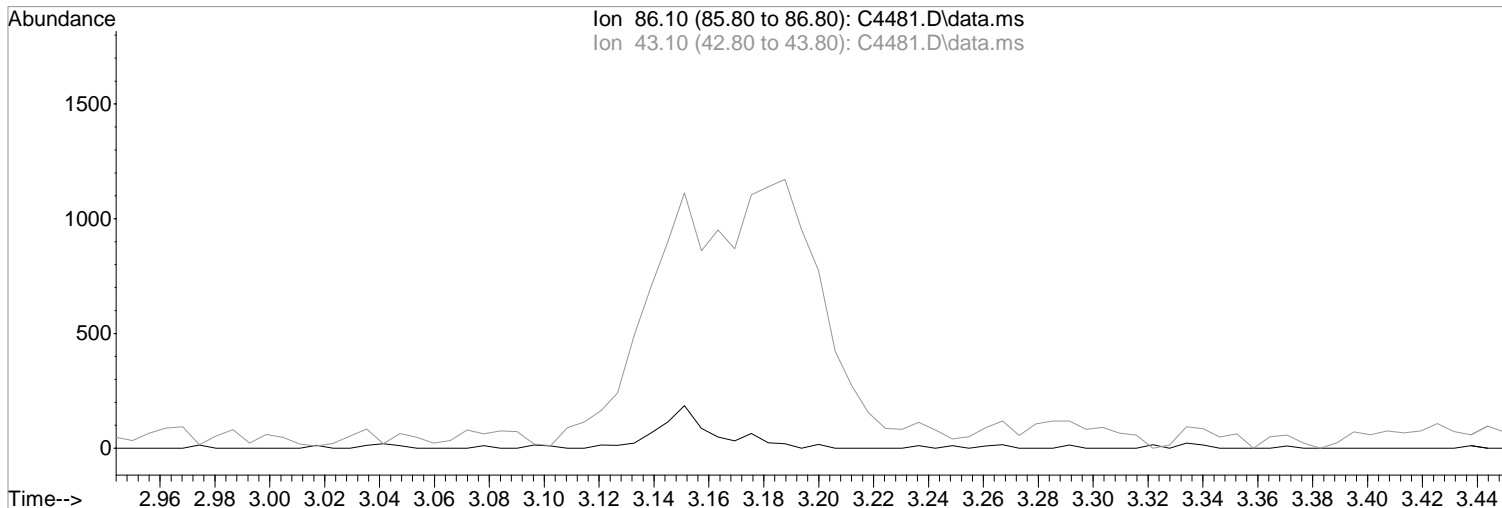
Ion	Exp%	Act%
86.10	100	100
43.10	1039.20	601.62#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(28) Vinyl Acetate  
3.143min (-3.143) 0.00 ug/L  
response 0

Manual Integration:  
Before

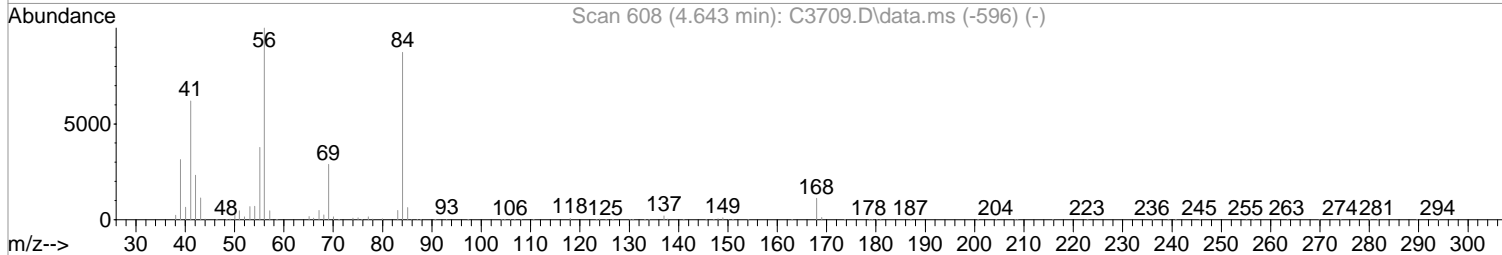
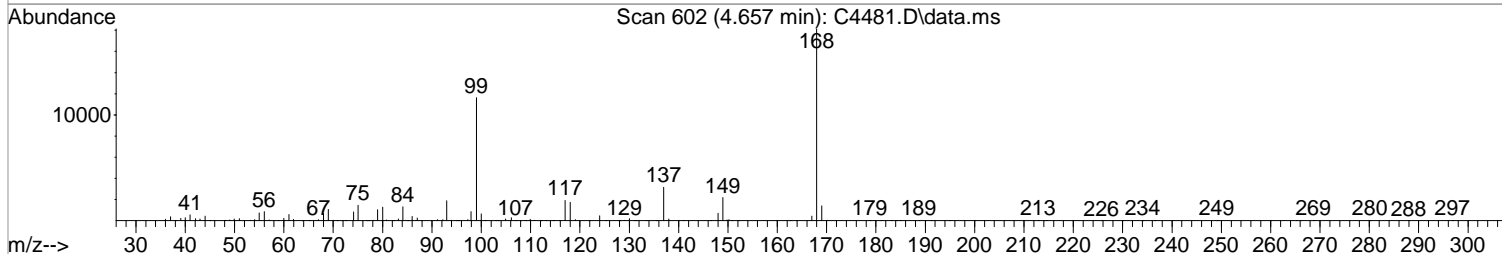
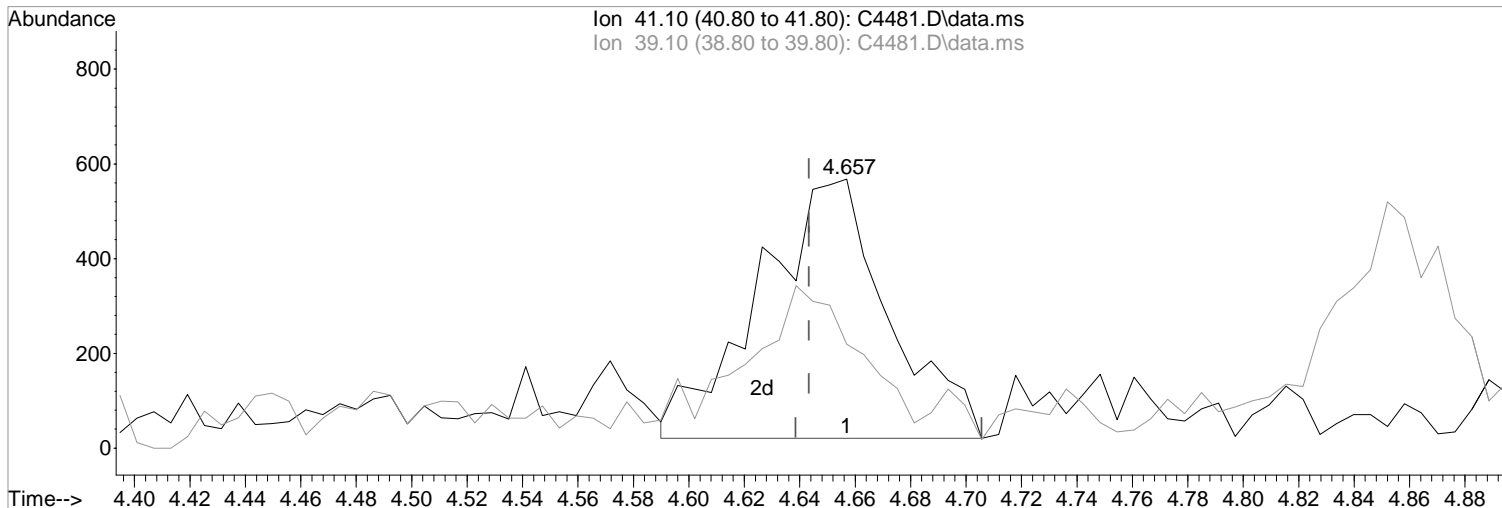
Ion	Exp%	Act%
86.10	100	0.00
43.10	1039.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(43) Cyclohexane (P)  
4.657min (+0.014) 0.74 ug/L m  
response 1763

Manual Integration:  
After  
Poor integration.

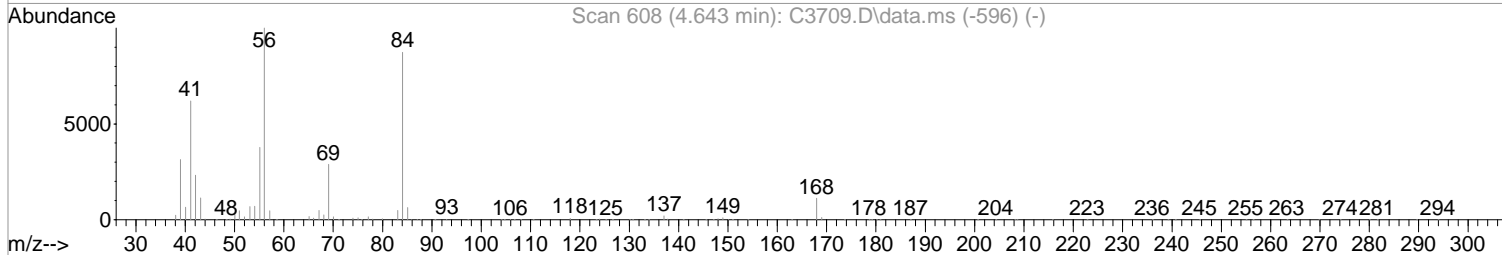
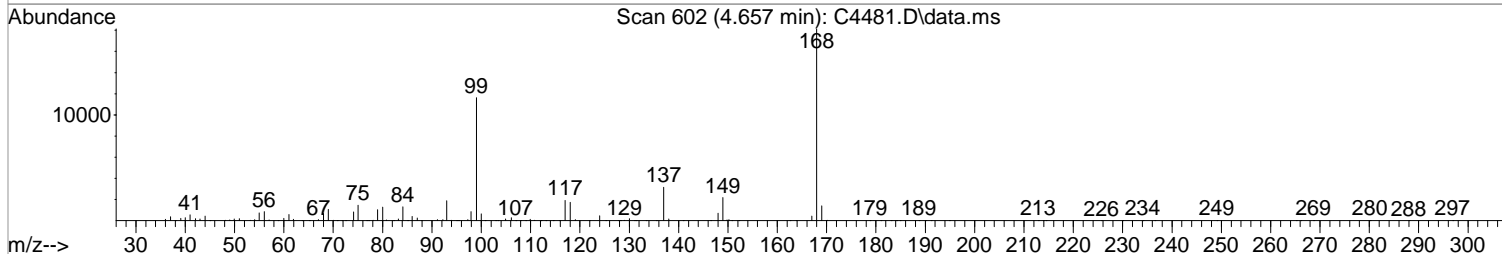
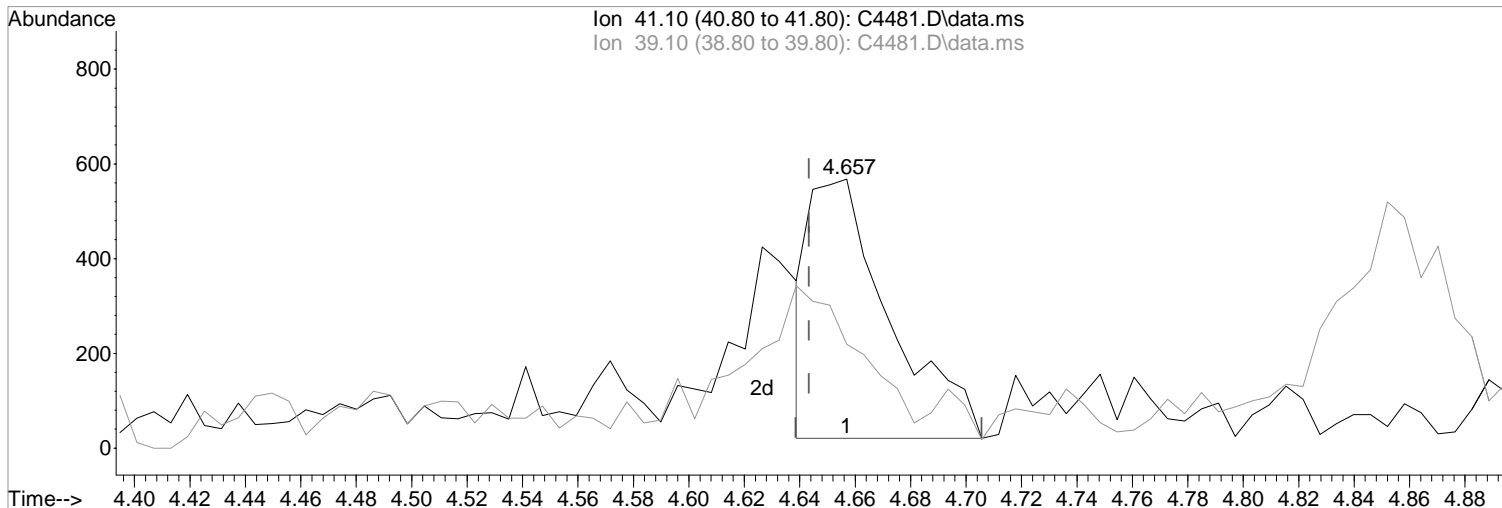
Ion	Exp%	Act%
41.10	100	100
39.10	50.80	38.56
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(43) Cyclohexane (P)  
4.657min (+0.014) 0.46 ug/L  
response 1101

Manual Integration:  
Before

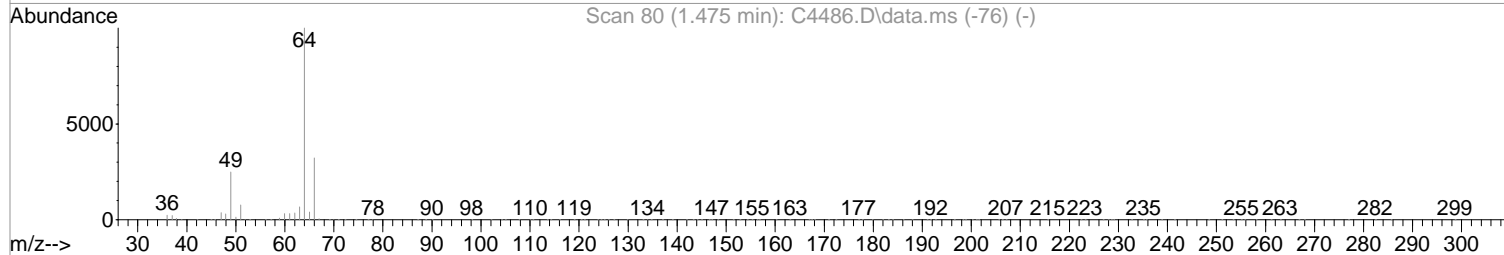
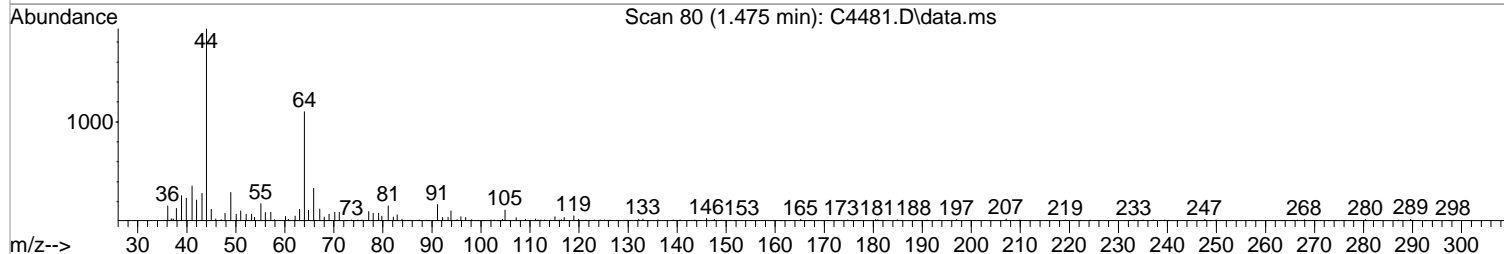
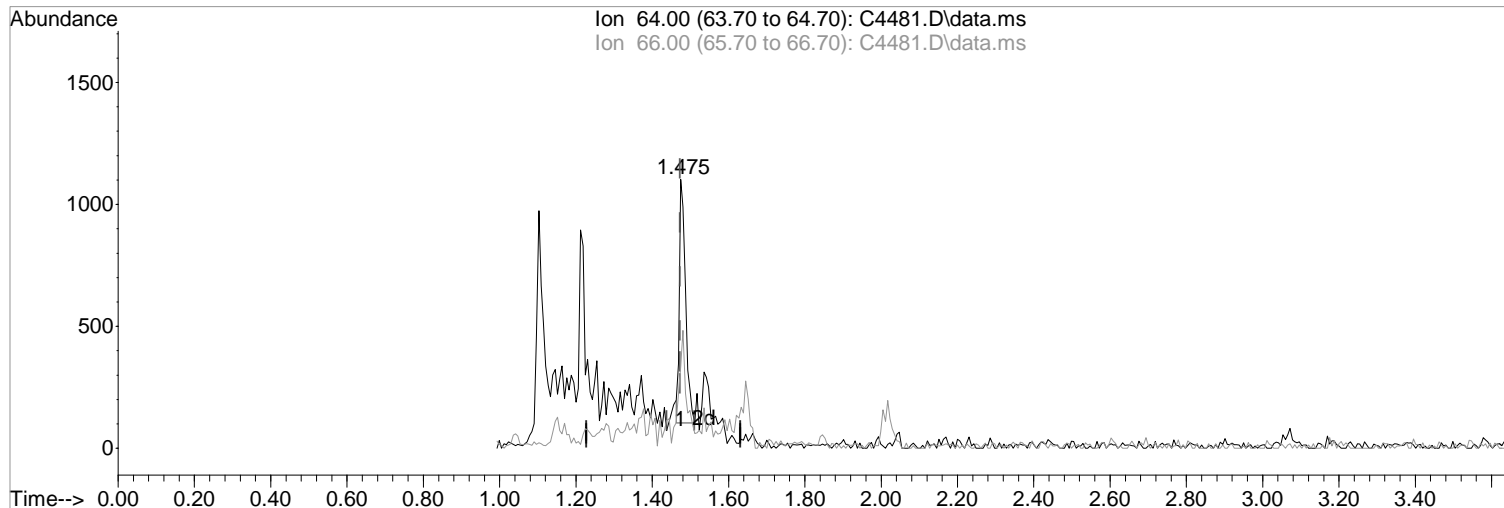
Ion	Exp%	Act%
41.10	100	100
39.10	50.80	38.56
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:56:12 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(6) Chloroethane (P)  
1.475min (+0.001) 0.65 ug/L m  
response 1126

Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
64.00	100	100
66.00	32.30	30.37
0.00	0.00	0.00
0.00	0.00	0.00

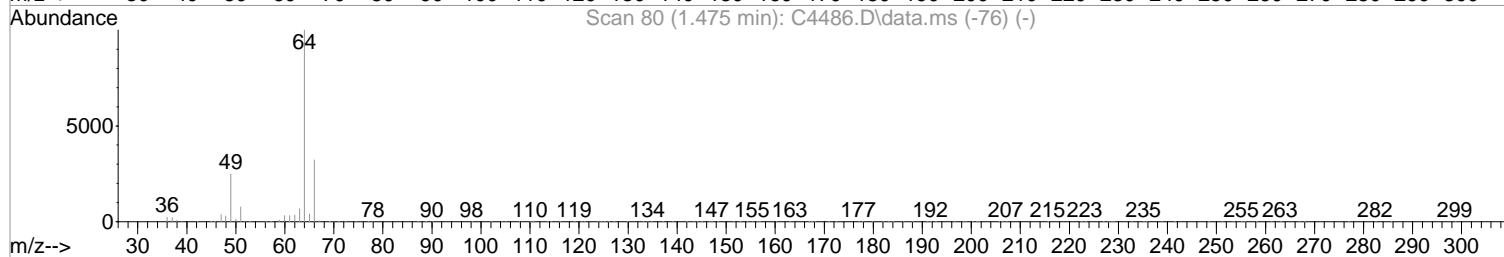
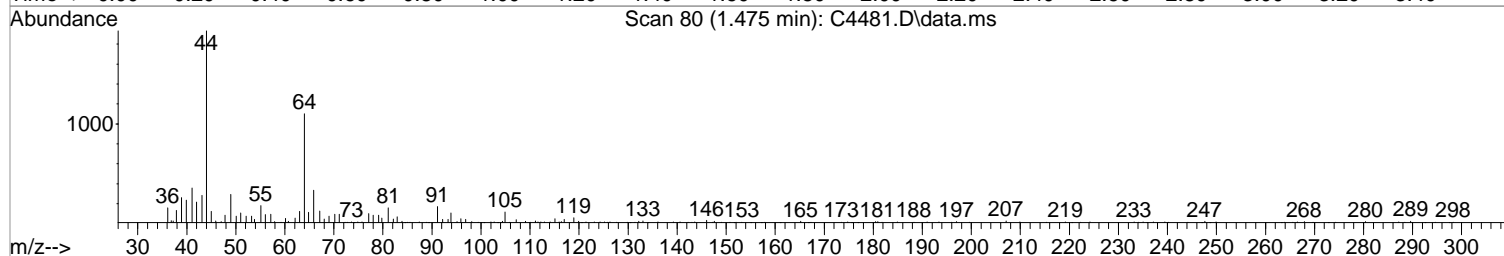
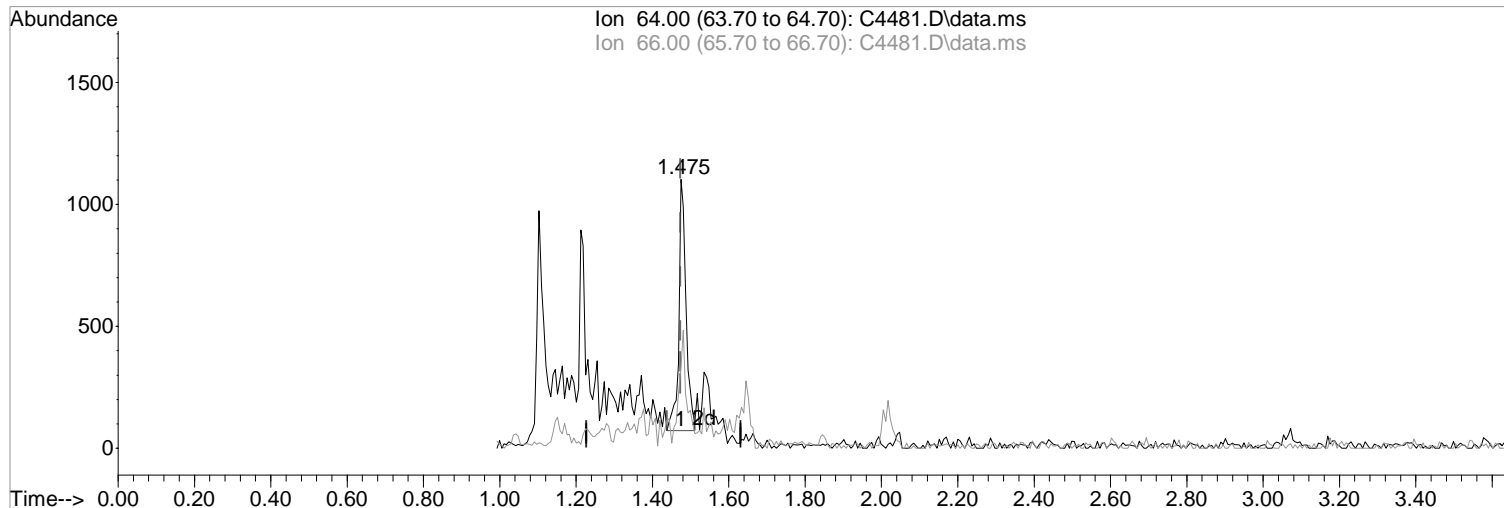
01/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:56:12 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(6) Chloroethane (P)  
1.475min (+0.001) 0.77 ug/L  
response 1341

Manual Integration:  
Before

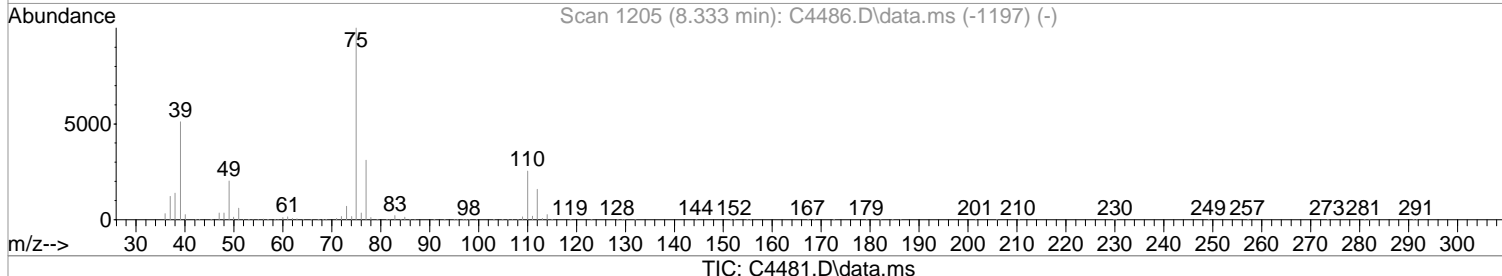
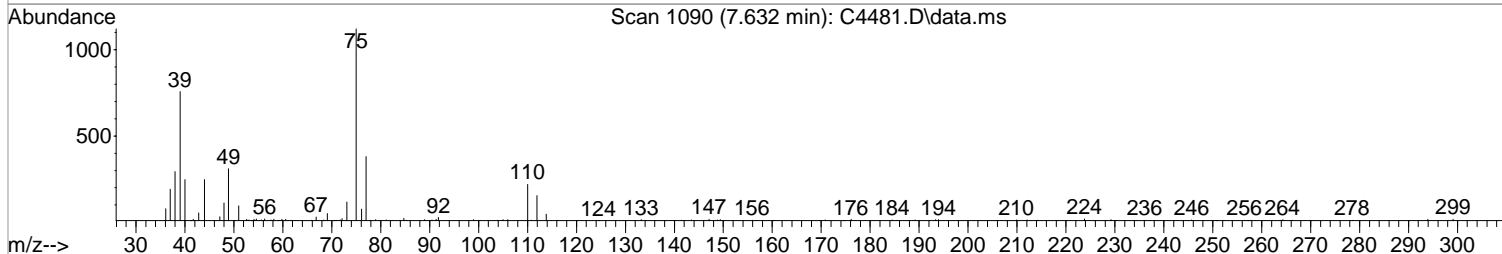
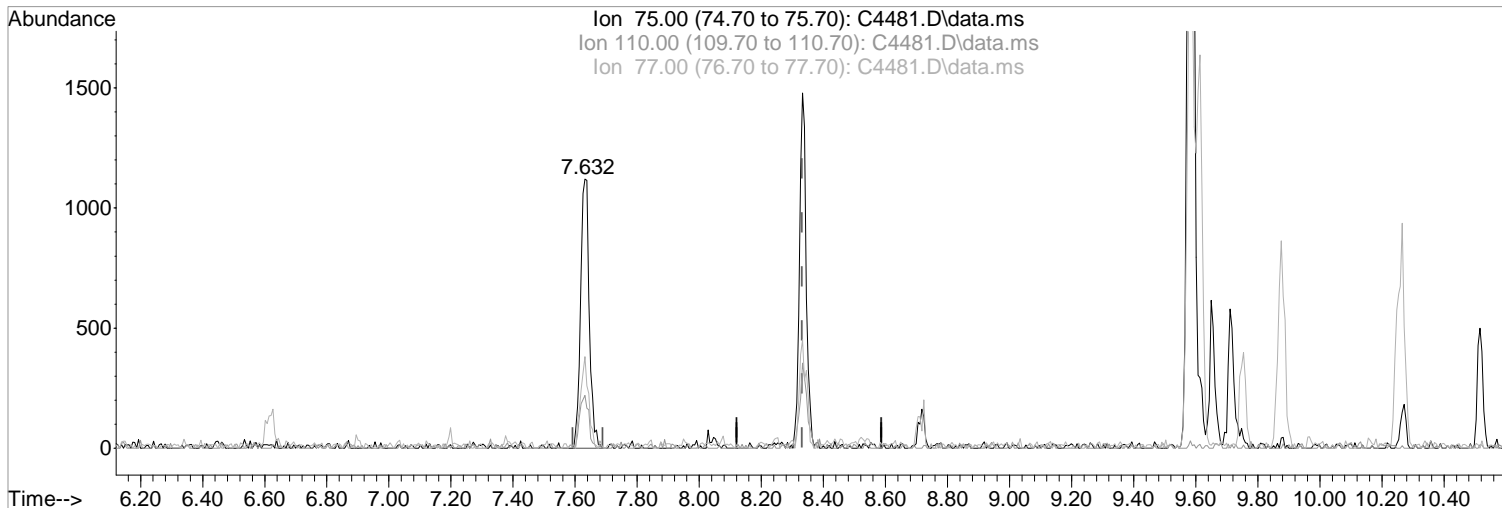
Ion	Exp%	Act%
64.00	100	100
66.00	32.30	30.37
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:46:11 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 0.75 ug/L m

response 2176

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	19.64
77.00	30.20	34.02
0.00	0.00	0.00

Manual Integration:

After

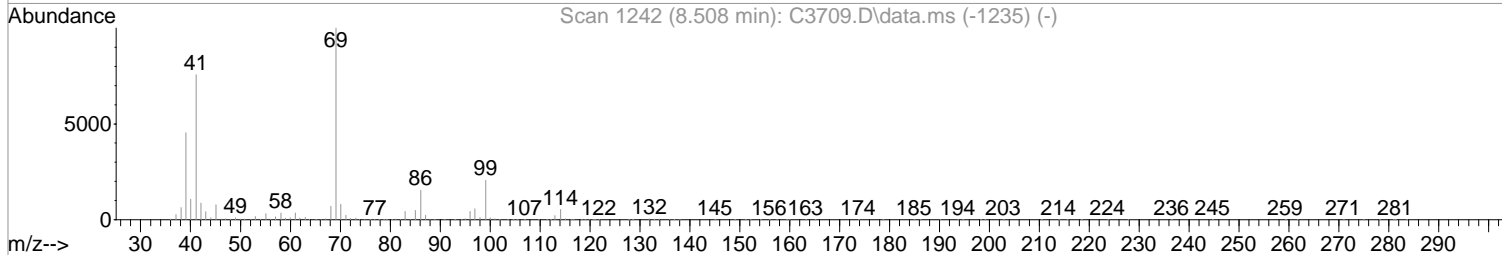
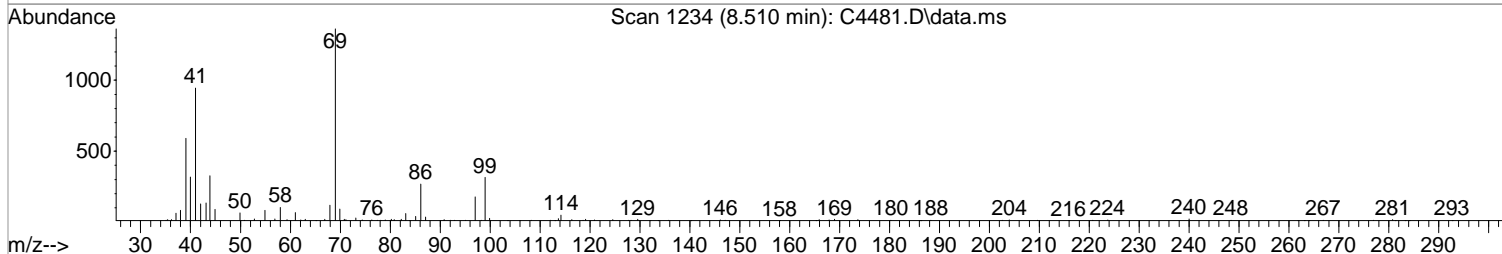
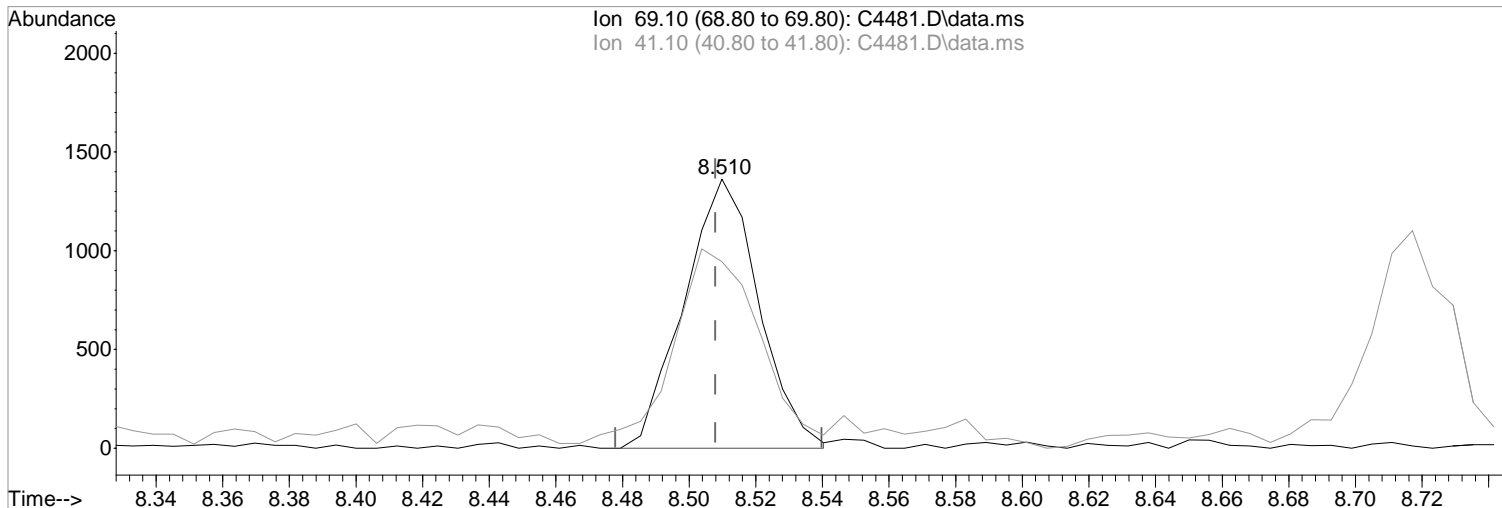
Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(67) Ethyl Methacrylate

8.510min (+0.002) 0.69 ug/L m

response 2132

Ion	Exp%	Act%
69.10	100	100
41.10	75.70	69.38
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

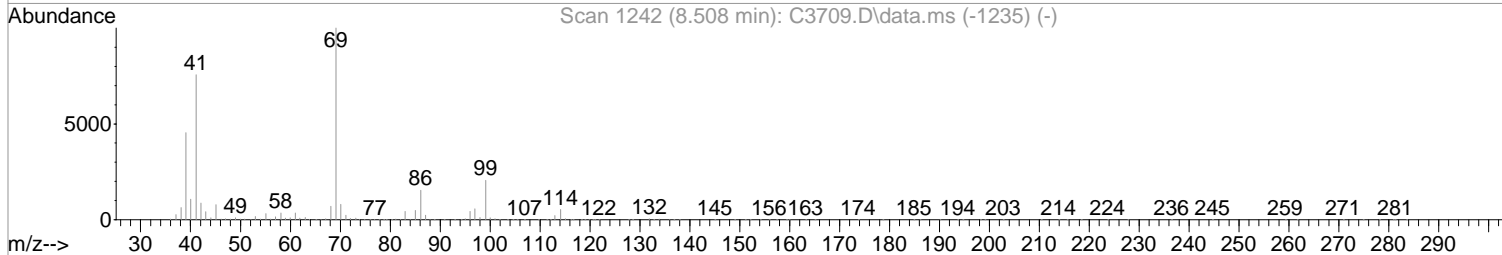
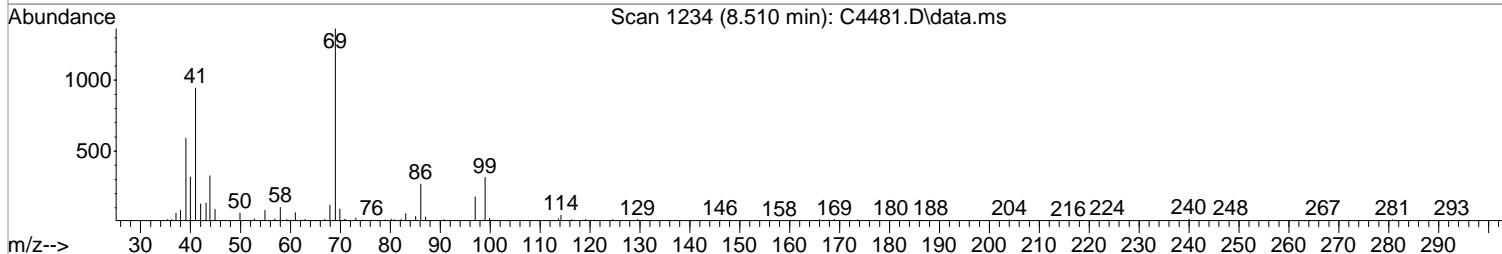
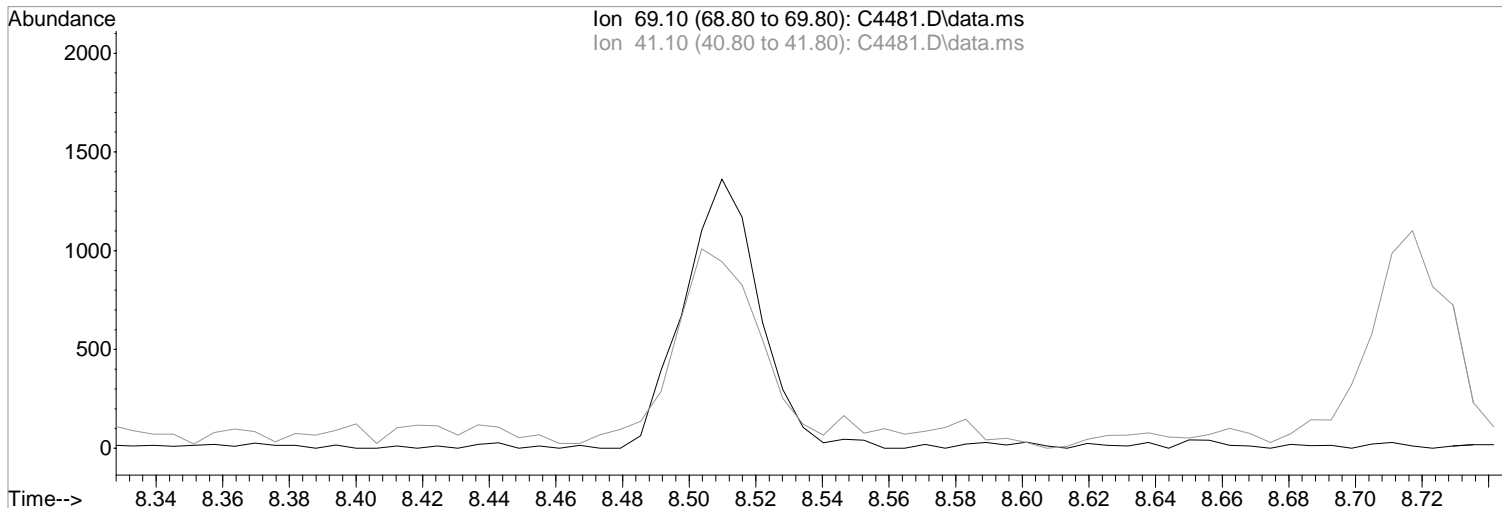
Peak not found.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



TIC: C4481.D\data.ms

(67) Ethyl Methacrylate  
8.508min (-8.508) 0.00 ug/L  
response 0

Manual Integration:  
Before

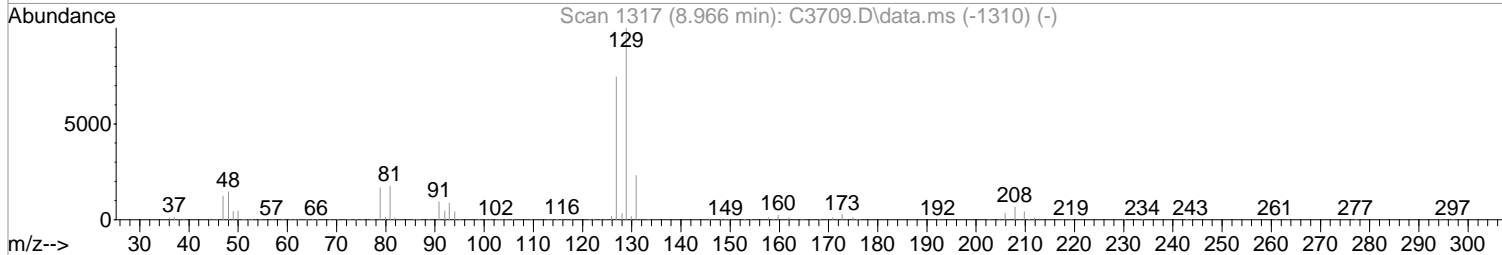
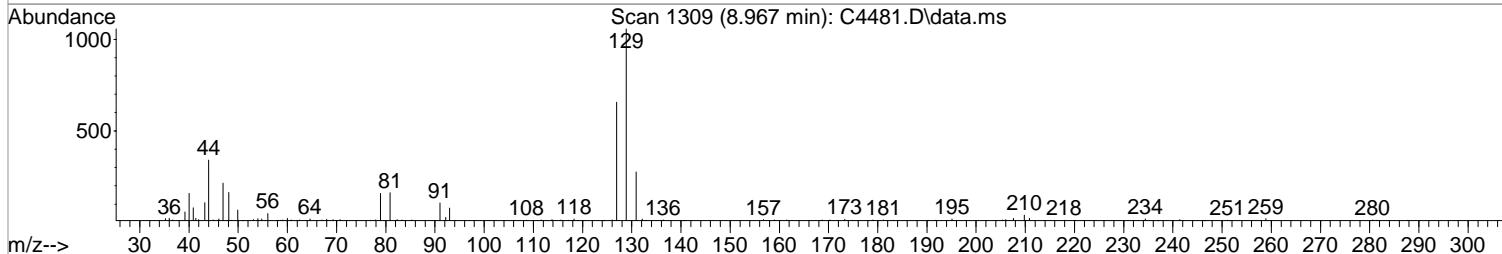
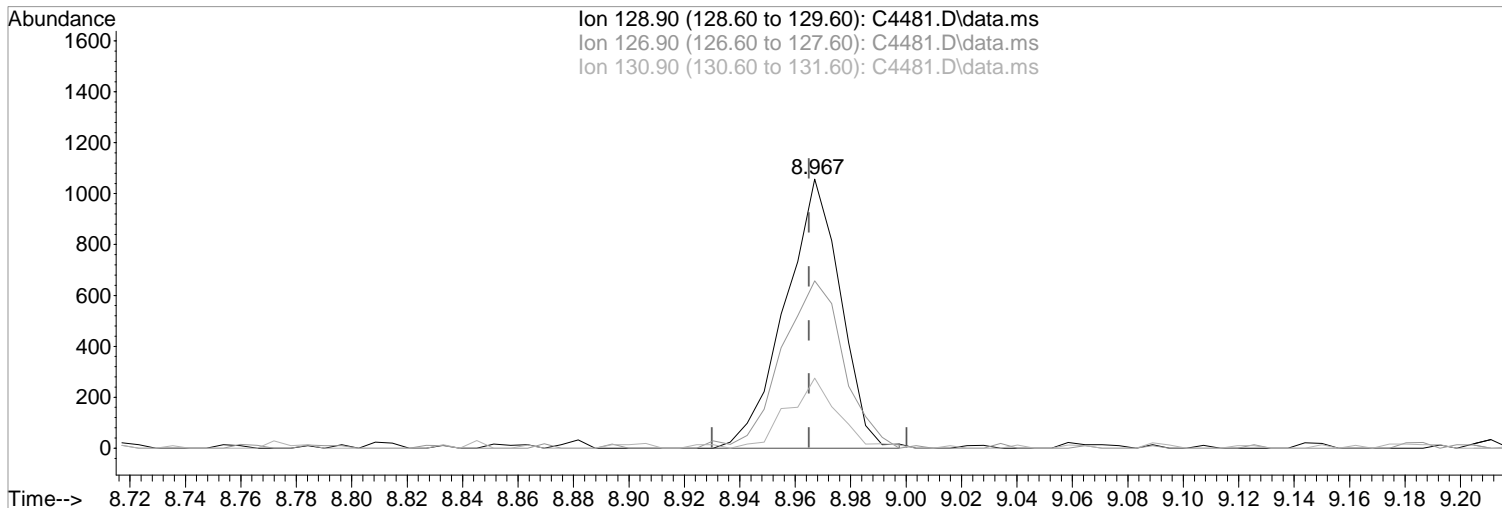
Ion	Exp%	Act%
69.10	100	0.00
41.10	75.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration



TIC: C4481.D\data.ms

(74) Dibromochloromethane (P)

8.967min (+0.002) 0.68 ug/L m  
 response 1467

Ion	Exp%	Act%
128.90	100	100
126.90	74.40	62.16
130.90	23.10	26.02
0.00	0.00	0.00

Manual Integration:

After

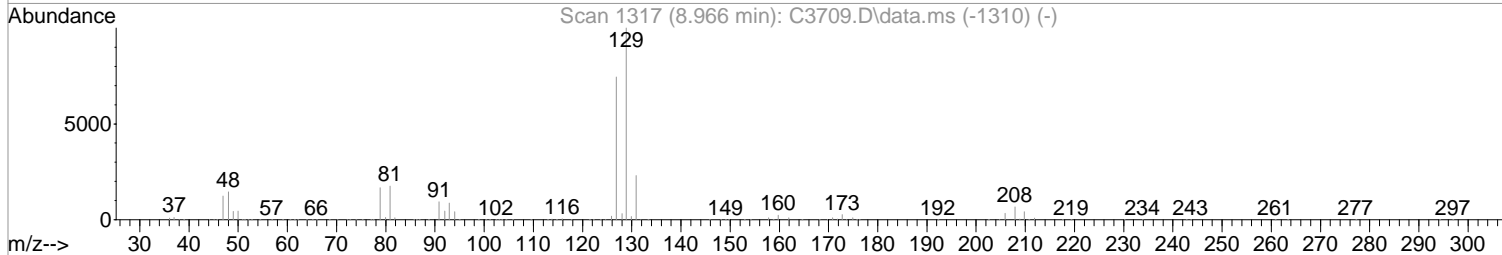
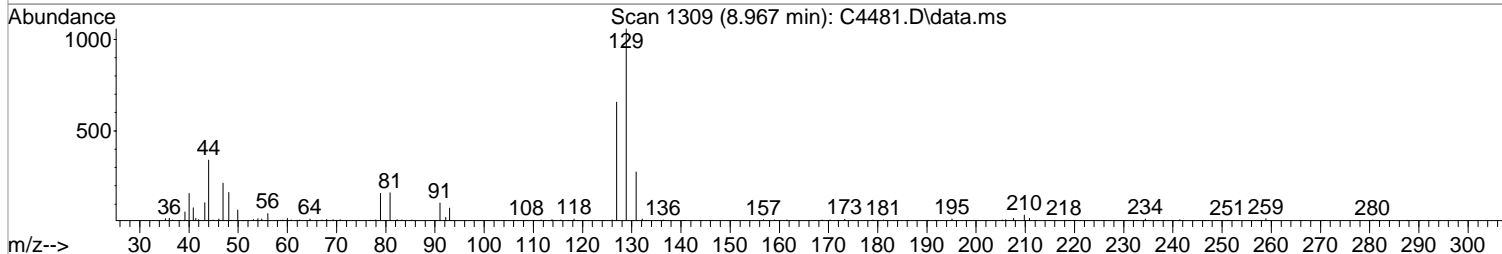
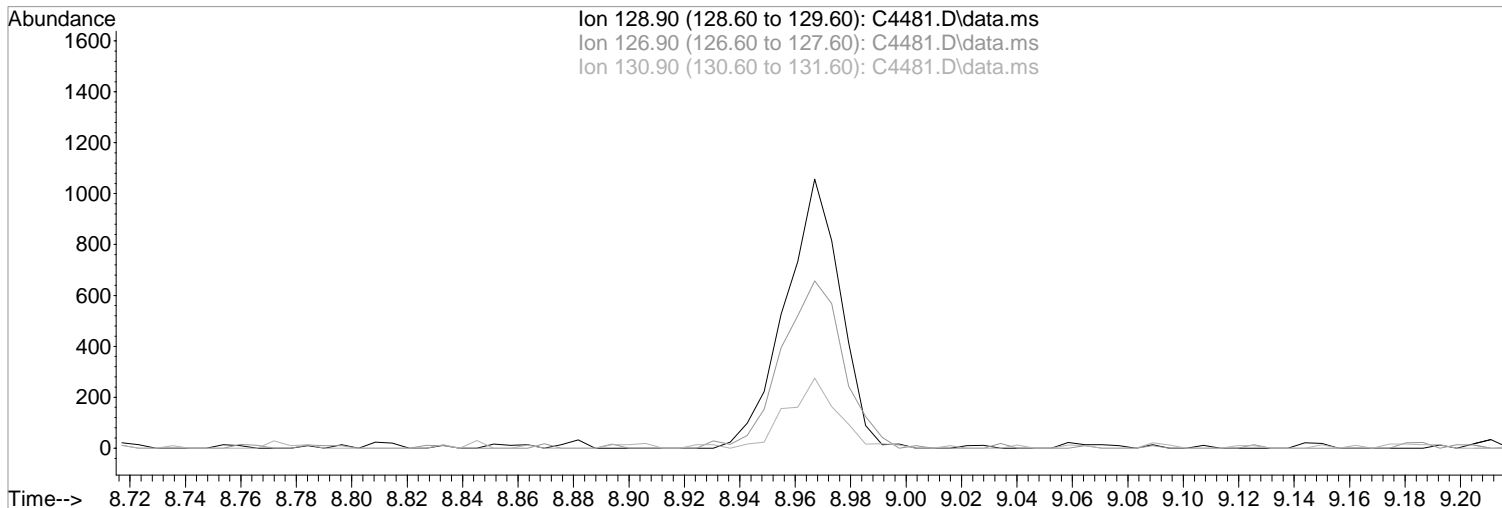
Peak not found.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4481.D  
Acq On : 23 Jan 2018 11:27 am  
Operator : F. NAEGLER  
Sample : 0.5 PPB STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 11:52:18 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Fri Dec 15 08:31:16 2017  
Response via : Initial Calibration



(74) Dibromochloromethane (P)

Manual Integration:

8.965min (-8.965) 0.00 ug/L

Before

response 0

Ion Exp% Act%

01/23/18

128.90 100 0.00

126.90 74.40 0.00#

130.90 23.10 0.00#

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1  
 Inst : MSVOA14

Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	257940	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	372369	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	323645	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	176342	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	27693	11.62	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	23.24%#
47) surr1,1,2-dichloroetha...	5.126	65	33934	11.23	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.46%#
64) SURR3,Toluene-d8	7.949	98	106444	11.70	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	23.40%#
69) SURR2,BFB	10.735	95	40766	11.13	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.26%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	1776m	0.62	ug/L	
3) Chloromethane	1.152	50	2541	0.89	ug/L	97
4) Vinyl Chloride	1.212	62	1739	0.65	ug/L	77
5) Bromomethane	1.414	94	1565	0.77	ug/L	89
6) Chloroethane	1.475	64	1126m	0.65	ug/L	
7) Freon 21	1.603	67	2428	0.55	ug/L	93
8) Trichlorofluoromethane	1.645	101	1915	0.58	ug/L	98
9) Diethyl Ether	1.846	59	1188	0.58	ug/L	91
10) Freon 123a	1.846	67	1666	0.62	ug/L	98
11) Freon 123	1.889	83	1722	0.57	ug/L	96
12) Acrolein	1.932	56	1934	3.42	ug/L	95
13) 1,1-Dicethene	2.011	96	1256	0.63	ug/L	90
14) Freon 113	2.005	101	1273	0.63	ug/L	# 68
15) Acetone	2.048	43	1417	1.01	ug/L	# 85
16) 2-Propanol	2.157	45	3221	15.50	ug/L	95
17) Iodomethane	2.121	142	633	0.29	ug/L	99
18) Carbon Disulfide	2.176	76	3578	0.74	ug/L	99
20) Allyl Chloride	2.292	76	612	0.70	ug/L	# 68
21) Methyl Acetate	2.316	43	1772m	0.74	ug/L	
22) Methylene Chloride	2.395	84	1436	0.60	ug/L	87
23) TBA	2.505	59	5825	16.90	ug/L	89
24) Acrylonitrile	2.602	53	3866	3.27	ug/L	96
25) Methyl-t-Butyl Ether	2.657	73	4695	0.68	ug/L	96
26) trans-1,2-Dichloroethene	2.645	96	1250	0.55	ug/L	90
27) 1,1-Dicethane	3.060	63	2530	0.63	ug/L	91
28) Vinyl Acetate	3.151	86	259m	0.59	ug/L	
29) DIPE	3.188	45	4687	0.64	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.176	53	2193	0.62	ug/L	93
31) ETBE	3.639	59	4543	0.71	ug/L	89
32) 2,2-Dichloropropane	3.791	77	2229	0.83	ug/L	89
33) cis-1,2-Dichloroethene	3.785	96	1725	0.67	ug/L	96
34) 2-Butanone	3.834	43	1652	0.91	ug/L	90
35) Propionitrile	3.889	54	1689	3.45	ug/L	61
36) Bromochloromethane	4.120	130	1018	0.63	ug/L	86
37) Methacrylonitrile	4.139	67	828	0.71	ug/L	# 82
38) Tetrahydrofuran	4.218	42	987	0.96	ug/L	68
39) Chloroform	4.285	83	2755	0.66	ug/L	78
40) 1,1,1-Trichloroethane	4.553	97	2128	0.65	ug/L	83
41) TAME	5.516	73	4533	0.76	ug/L	95

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Cyclohexane	4.657	41	1763m	0.74	ug/L	
45) Carbontetrachloride	4.846	117	1752	0.67	ug/L	90
46) 1,1-Dichloropropene	4.864	75	2122	0.67	ug/L	90
48) Benzene	5.212	78	5523	0.60	ug/L	93
49) 1,2-Dichloroethane	5.260	62	2202	0.59	ug/L	91
50) Iso-Butyl Alcohol	5.260	43	2442	15.06	ug/L #	74
51) n-Heptane	5.803	43	2044	0.73	ug/L	98
52) 1-Butanol	6.376	56	3299	37.47	ug/L	97
53) Trichloroethene	6.309	130	1426	0.53	ug/L	87
54) Methylcyclohexane	6.571	55	1729	0.57	ug/L	83
55) 1,2-Dicloropropane	6.614	63	1394	0.57	ug/L	69
56) Dibromomethane	6.760	93	999	0.61	ug/L #	87
57) 1,4-Dioxane	6.864	88	760	16.36	ug/L	92
58) Methyl Methacrylate	6.894	69	1421	0.74	ug/L #	81
59) Bromodichloromethane	7.028	83	1775	0.62	ug/L	98
60) 2-Nitropropane	7.339	41	948	1.50	ug/L	92
61) 2-Chloroethylvinyl Ether	7.498	63	545	1.07	ug/L	81
62) cis-1,3-Dichloropropene	8.333	75	2187	0.75	ug/L	98
63) 4-Methyl-2-pentanone	7.870	43	2060	0.69	ug/L	97
65) Toluene	8.028	91	6164	0.61	ug/L	96
66) trans-1,3-Dichloropropene	8.333	75	2187	0.75	ug/L	98
67) Ethyl Methacrylate	8.510	69	2132m	0.69	ug/L	
68) 1,1,2-Trichloroethane	8.534	97	1506	0.62	ug/L	86
71) Tetrachloroethene	8.674	164	1148	0.55	ug/L	89
72) 2-Hexanone	8.876	43	1301	0.59	ug/L	86
73) 1,3-Dichloropropene	8.717	76	2325	0.58	ug/L	90
74) Dibromochloromethane	8.967	129	1467m	0.68	ug/L	
75) N-Butyl Acetate	9.059	43	2705	0.64	ug/L	89
76) 1,2-Dibromoethane	9.065	107	1278	0.54	ug/L #	65
77) 3-Chlorobenzotrifluoride	9.656	180	2390	0.63	ug/L	96
78) Chlorobenzene	9.613	112	3903	0.59	ug/L	98
79) 4-Chlorobenzotrifluoride	9.717	180	2273	0.67	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.711	131	1279	0.60	ug/L	90
81) Ethylbenzene	9.753	106	2133	0.62	ug/L #	90
82) (m+p)Xylene	9.875	106	5024	1.18	ug/L	98
83) o-Xylene	10.253	106	2398	0.57	ug/L	98
84) Styrene	10.266	104	4203	0.61	ug/L	97
85) Bromoform	10.418	173	1057	0.69	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	2346	0.62	ug/L	91
87) Isopropylbenzene	10.613	105	6641	0.61	ug/L	94
88) Cyclohexanone	10.662	55	6960	12.50	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.942	53	641	0.88	ug/L	87
91) 1,1,2,2-Tetrachloroethane	10.887	83	2131	0.70	ug/L	94
92) Bromobenzene	10.857	156	1556	0.55	ug/L #	86
93) 1,2,3-Trichloropropane	10.906	110	682	0.62	ug/L #	78
94) n-Propylbenzene	10.985	91	7432	0.63	ug/L	98
95) 2-Chlorotoluene	11.040	91	4457	0.62	ug/L	94
96) 3-Chlorotoluene	11.095	91	4851	0.67	ug/L	98
97) 4-Chlorotoluene	11.137	91	5079	0.60	ug/L	93
98) 1,3,5-Trimethylbenzene	11.150	105	4967	0.59	ug/L	99
99) tert-Butylbenzene	11.424	119	4633	0.63	ug/L	94
100) 1,2,4-Trimethylbenzene	11.467	105	5522	0.66	ug/L	94
101) 3,4-Dichlorobenzotrifl...	11.540	214	1938	0.64	ug/L	93
102) sec-Butylbenzene	11.613	105	6482	0.60	ug/L	99
103) p-Isopropyltoluene	11.741	119	5720	0.61	ug/L	91
104) 1,3-Dclbenz	11.686	146	3363	0.62	ug/L	93



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration

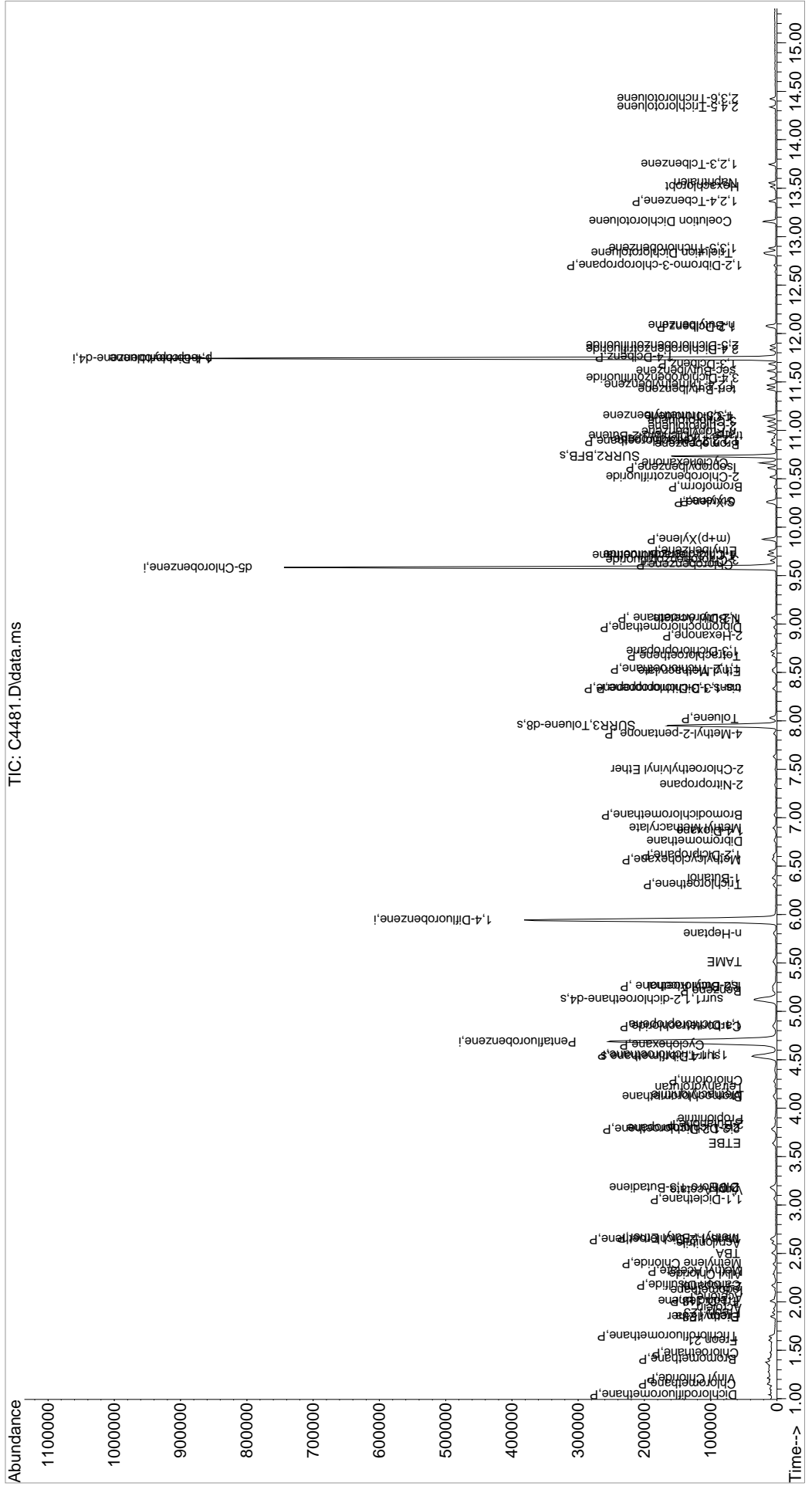
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.759	146	3603	0.63	ug/L	96
106) 2,4-Dichlorobenzotrifl...	11.832	214	1724	0.62	ug/L	92
107) 2,5-Dichlorobenzotrifl...	11.875	214	1830	0.58	ug/L	97
108) n-Butylbenzene	12.082	91	5157	0.62	ug/L	97
109) 1,2-Dclbenz	12.070	146	3086	0.58	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	612	0.89	ug/L #	86
111) Trielution Dichlorotol...	12.832	125	8471	1.98	ug/L	93
112) 1,3,5-Trichlorobenzene	12.881	180	2465	0.60	ug/L	87
113) Coelution Dichlorotoluene	13.155	125	6345	1.37	ug/L	96
114) 1,2,4-Tcbenzene	13.369	180	2456	0.63	ug/L	90
115) Hexachlorobt	13.515	225	1073	0.60	ug/L	89
116) Naphthalen	13.558	128	6570	0.66	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	2476	0.65	ug/L	97
118) 2,4,5-Trichlorotoluene	14.338	159	1704	0.74	ug/L	90
119) 2,3,6-Trichlorotoluene	14.423	159	1611	0.75	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4481.D  
 Acq On : 23 Jan 2018 11:27 am  
 Operator : F. NAEGLER  
 Sample : 0.5 PPB STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA14

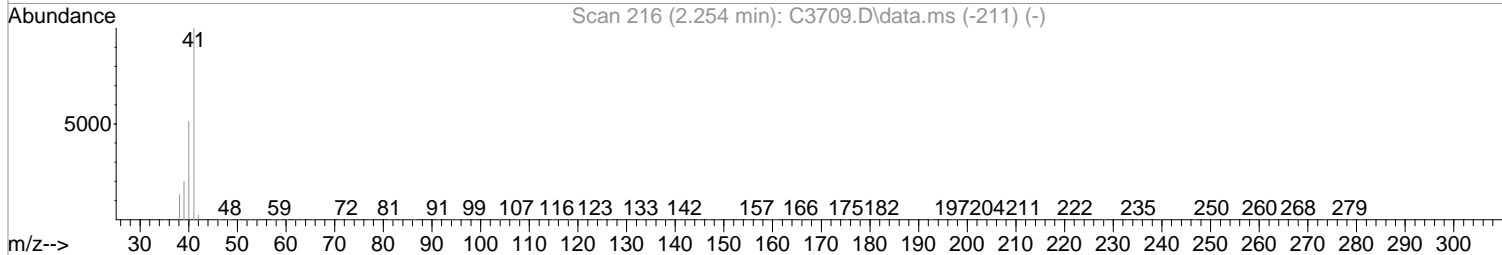
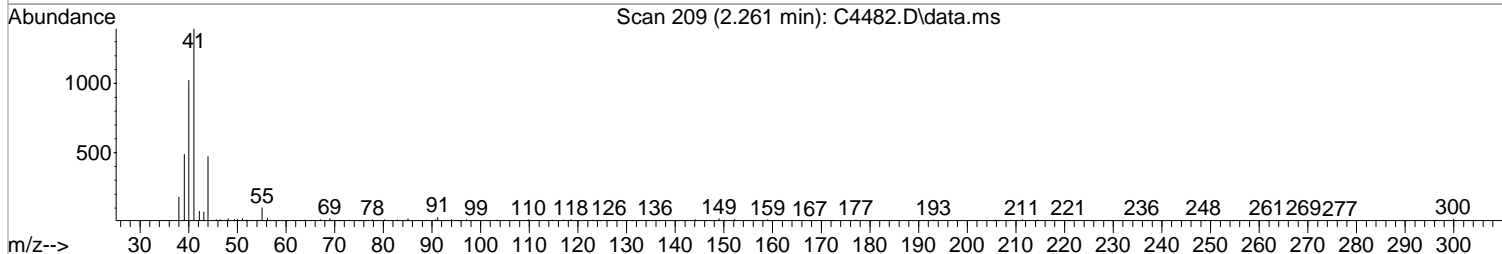
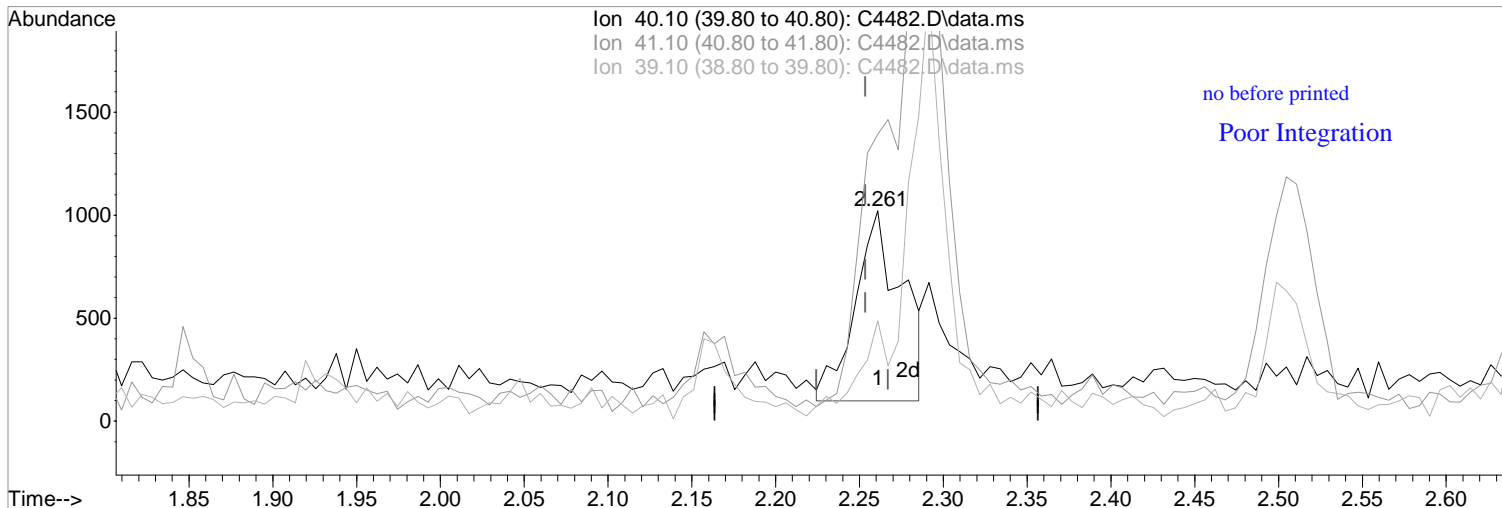
Quant Time: Jan 23 16:56:12 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Fri Dec 15 08:31:16 2017  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:37:31 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



TIC: C4482.D\data.ms

(19) Acetonitrile  
2.261min (+0.007) 7.50 ug/L m  
response 1792

Manual Integration:  
After  
Poor integration.

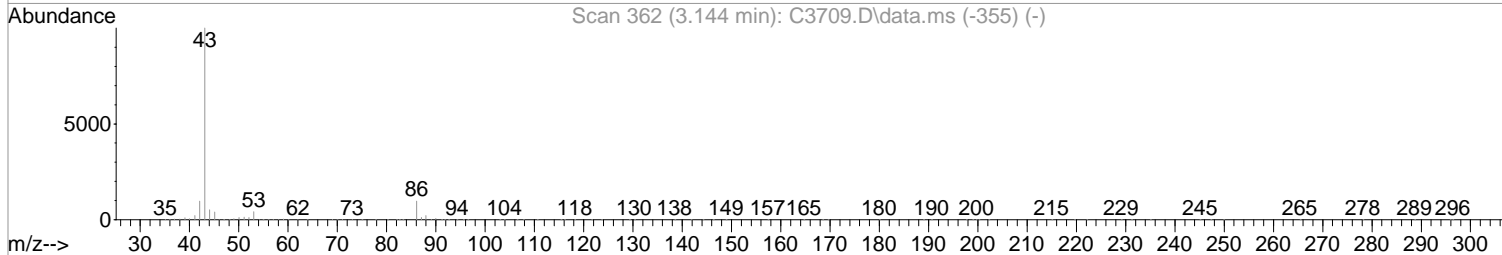
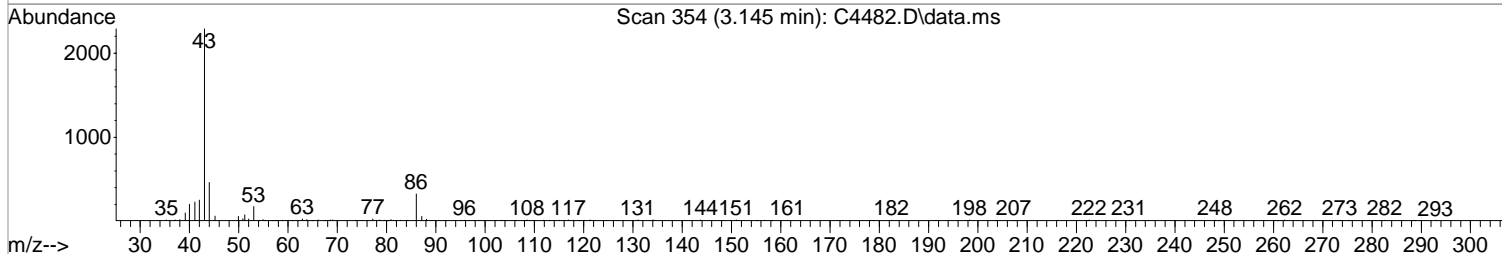
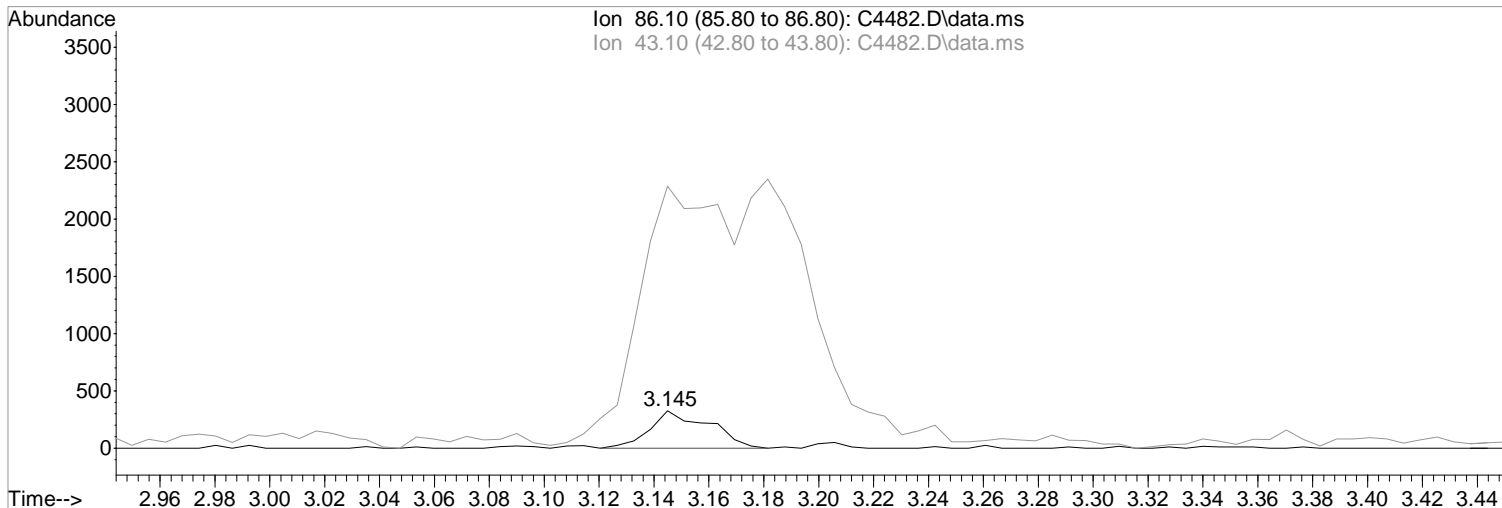
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	136.30#
39.10	39.50	47.75
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



TIC: C4482.D\data.ms

(28) Vinyl Acetate  
3.145min (+0.002) 1.07 ug/L m  
response 493

Manual Integration:  
After  
Peak not found.

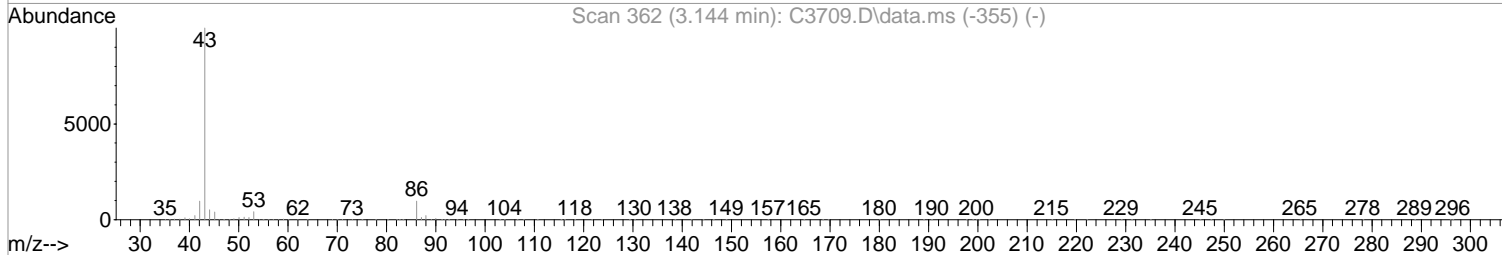
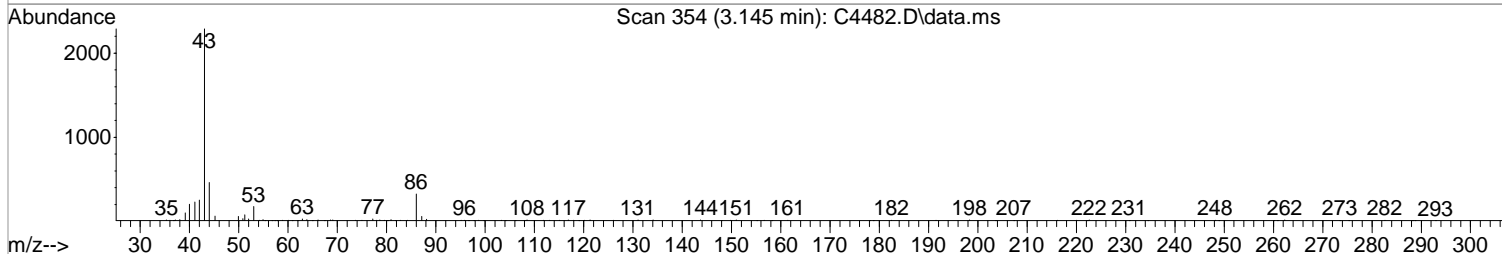
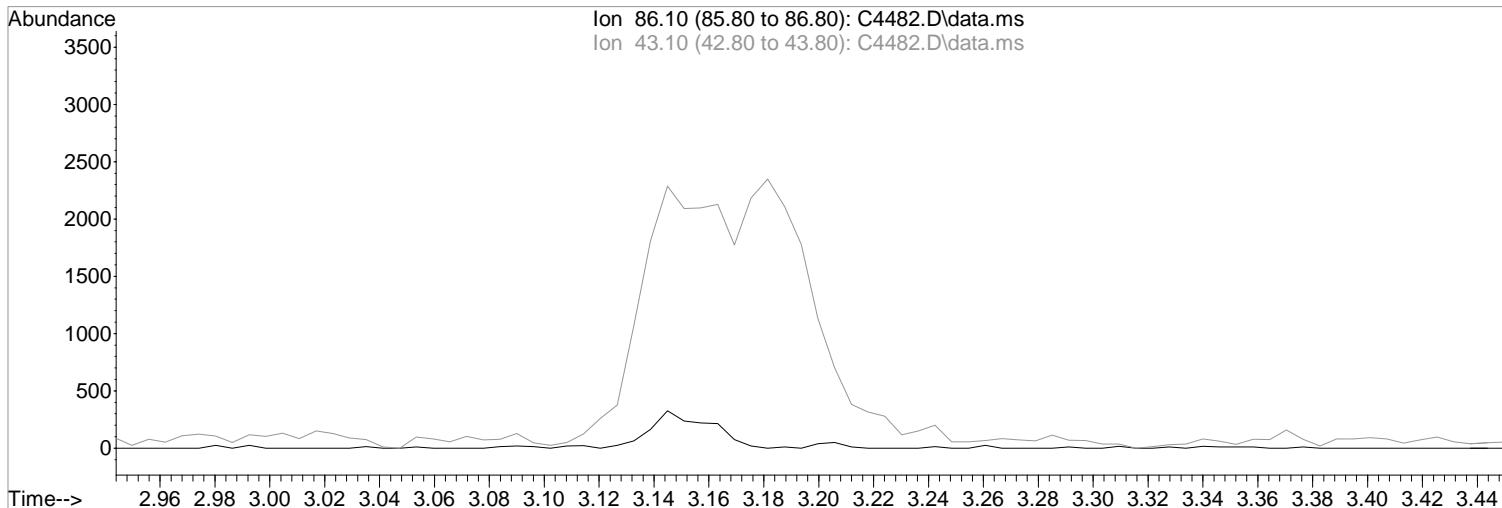
Ion	Exp%	Act%
86.10	100	100
43.10	1039.20	699.69#
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



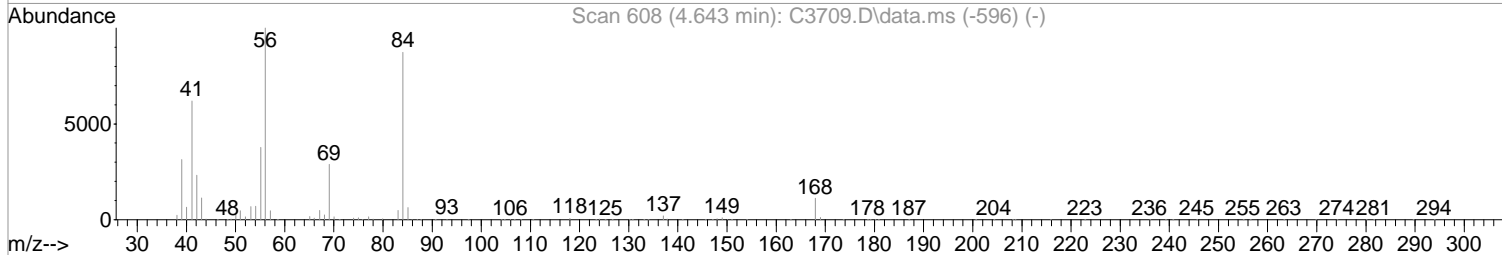
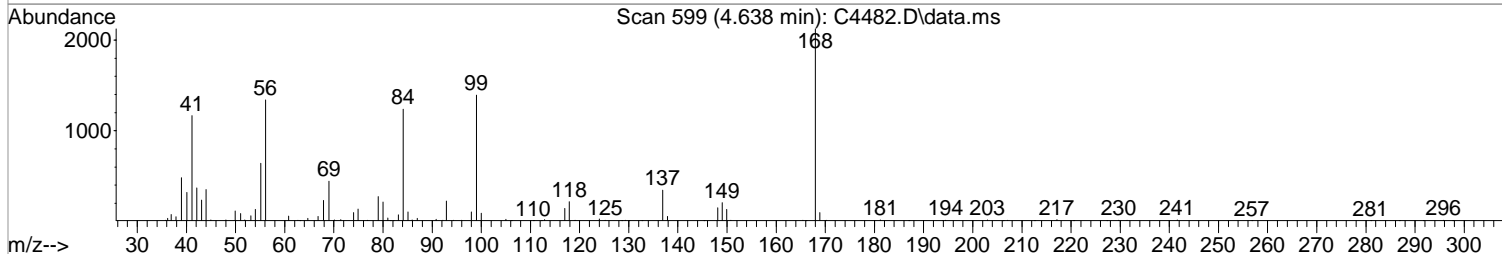
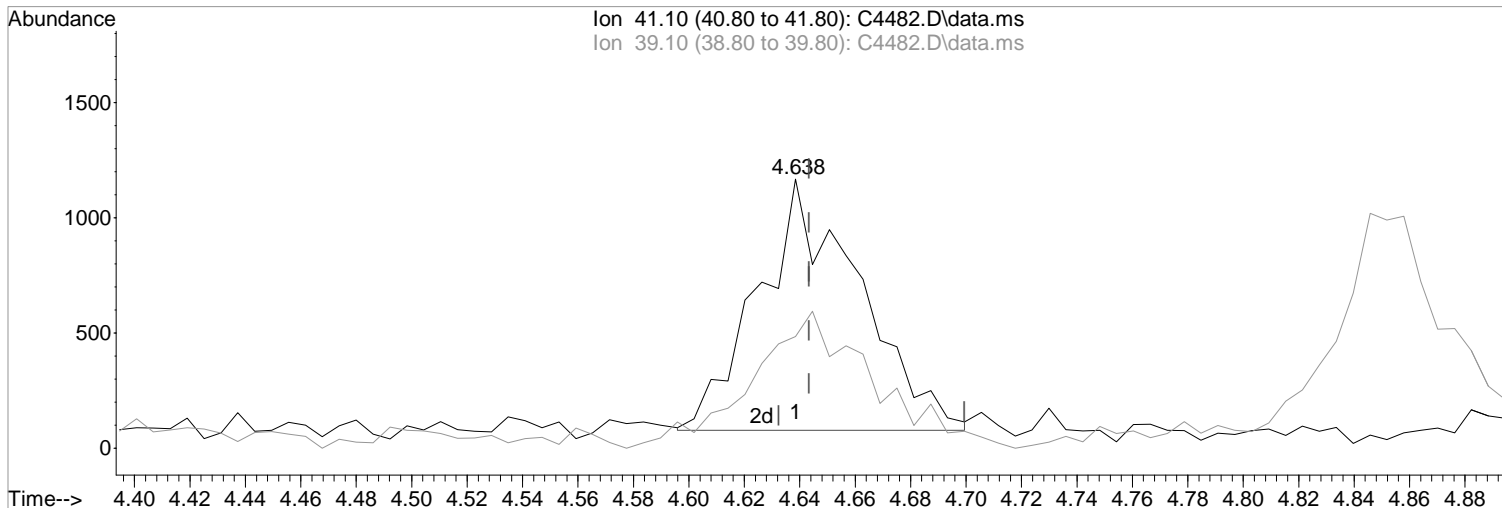
TIC: C4482.D\data.ms

(28) Vinyl Acetate	Manual Integration:
3.143min (-3.143) 0.00 ug/L	Before
response 0	
Ion Exp% Act%	01/23/18
86.10 100 0.00	
43.10 1039.20 0.00#	
0.00 0.00 0.00	
0.00 0.00 0.00	

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)

4.638min (-0.005) 1.08 ug/L m

response 2768

Ion	Exp%	Act%
41.10	100	100
39.10	50.80	41.44
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

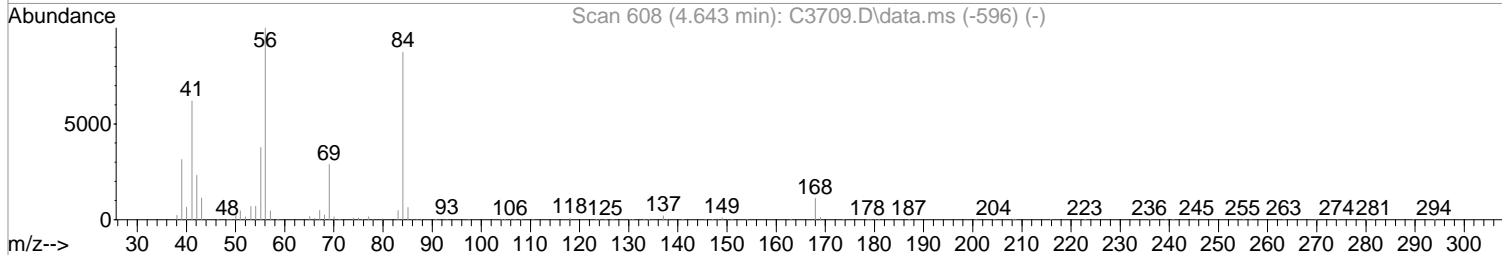
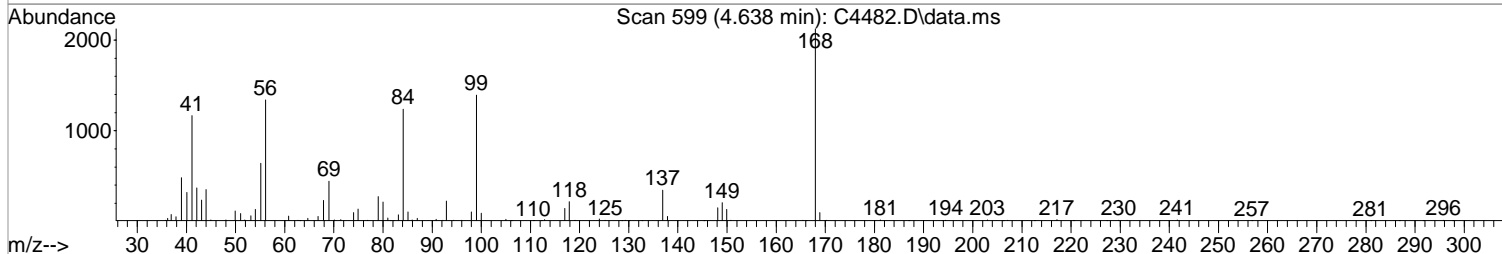
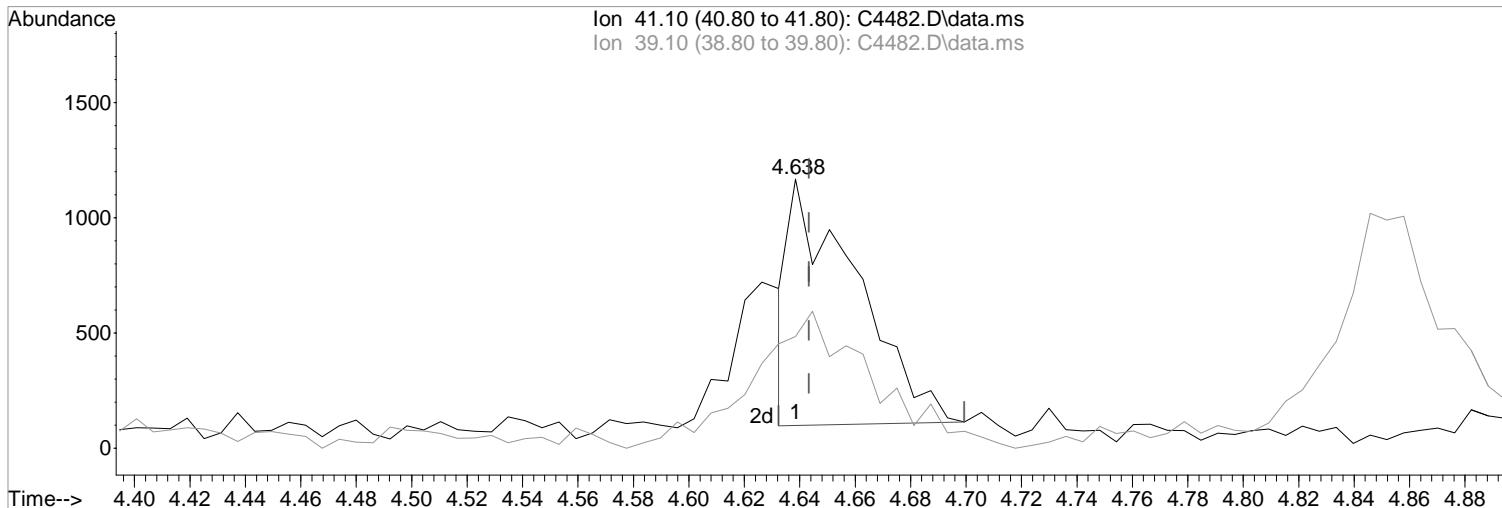
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4482.D  
Acq On : 23 Jan 2018 11:50 am  
Operator : F. NAEGLER  
Sample : 1.0 PPB STD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:21:40 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 11:56:58 2018  
Response via : Initial Calibration



(43) Cyclohexane (P)  
4.638min (-0.005) 0.70 ug/L  
response 1810

Manual Integration:  
Before

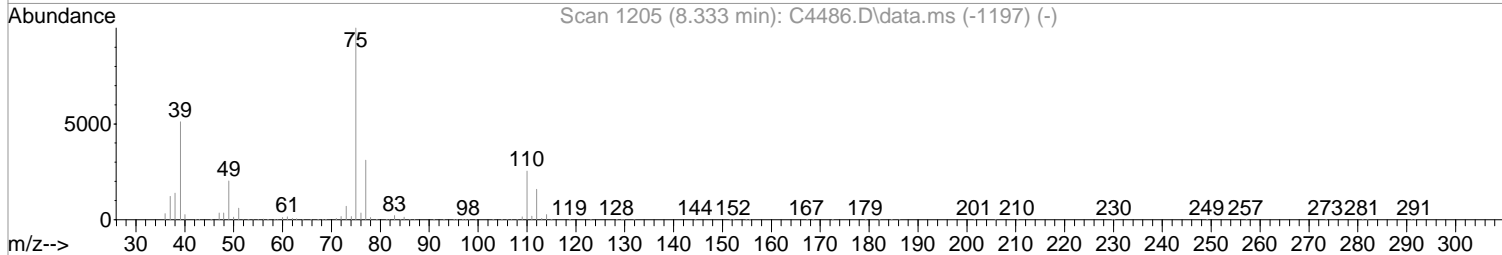
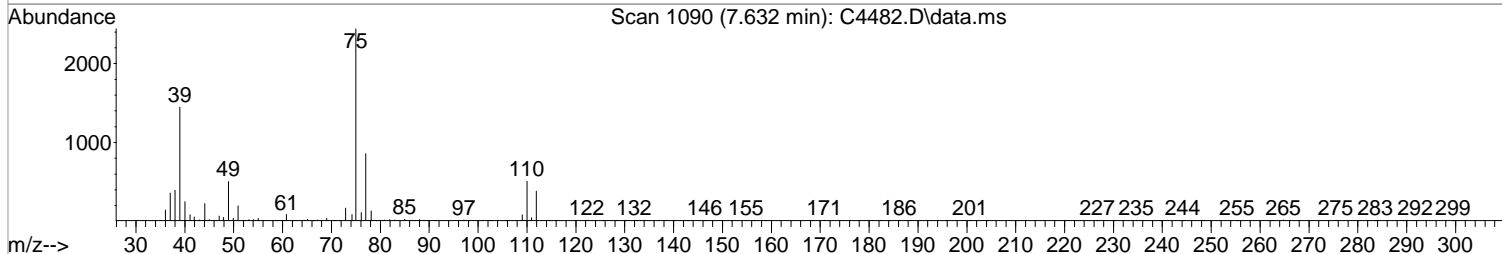
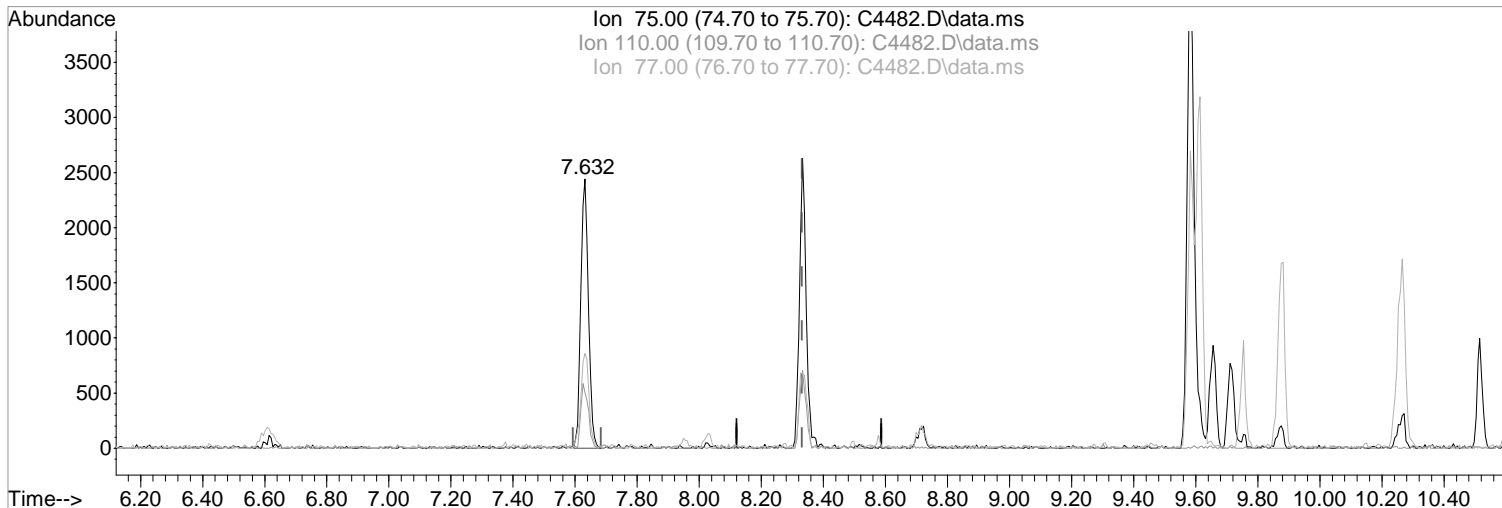
Ion	Exp%	Act%
41.10	100	100
39.10	50.80	41.44
0.00	0.00	0.00
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:46:44 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 1.27 ug/L m

response 4136

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	20.86
77.00	30.20	35.20
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	265204	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	381806	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	337410	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	182844	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.541	113	26275	10.75	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.50%#
47) surr1,1,2-dichloroetha...	5.120	65	33143	10.69	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	21.38%#
64) SURR3,Toluene-d8	7.949	98	101608	10.89	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	21.78%#
69) SURR2,BFB	10.735	95	39799	10.60	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	21.20%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	3435	1.13	ug/L	96
3) Chloromethane	1.151	50	4262	1.34	ug/L	98
4) Vinyl Chloride	1.212	62	3390	1.21	ug/L	98
5) Bromomethane	1.407	94	2948	1.36	ug/L	87
6) Chloroethane	1.481	64	1959	1.05	ug/L	95
7) Freon 21	1.602	67	5346	1.17	ug/L	96
8) Trichlorofluoromethane	1.645	101	3916	1.14	ug/L	94
9) Diethyl Ether	1.846	59	2213	1.03	ug/L	91
10) Freon 123a	1.846	67	3157	1.11	ug/L	99
11) Freon 123	1.895	83	3531	1.11	ug/L	93
12) Acrolein	1.932	56	3498	5.69	ug/L	86
13) 1,1-Dicethene	2.011	96	2316	1.09	ug/L	90
14) Freon 113	2.011	101	2323	1.09	ug/L	90
15) Acetone	2.048	43	2283	1.38	ug/L	74
16) 2-Propanol	2.163	45	6161	26.98	ug/L	93
17) Iodomethane	2.121	142	969	0.45	ug/L	78
18) Carbon Disulfide	2.176	76	6623	1.25	ug/L	94
19) Acetonitrile	2.261	40	1792m	7.50	ug/L	
20) Allyl Chloride	2.291	76	1143	1.22	ug/L #	88
21) Methyl Acetate	2.310	43	2996	1.15	ug/L	97
22) Methylene Chloride	2.395	84	2624	1.06	ug/L #	83
23) TBA	2.505	59	10527	27.35	ug/L	84
24) Acrylonitrile	2.608	53	6715	5.27	ug/L	93
25) Methyl-t-Butyl Ether	2.657	73	9057	1.22	ug/L	97
26) trans-1,2-Dichloroethene	2.645	96	2621	1.12	ug/L	85
27) 1,1-Dicethane	3.072	63	4798	1.12	ug/L	96
28) Vinyl Acetate	3.145	86	493m	1.07	ug/L	
29) DIPE	3.181	45	8856	1.13	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.175	53	4236	1.12	ug/L	100
31) ETBE	3.639	59	8840	1.27	ug/L	94
32) 2,2-Dichloropropane	3.779	77	4065	1.36	ug/L	93
33) cis-1,2-Dichloroethene	3.785	96	3155	1.14	ug/L #	80
34) 2-Butanone	3.834	43	2521	1.23	ug/L	91
35) Propionitrile	3.895	54	3131	5.86	ug/L	92
36) Bromochloromethane	4.126	130	1760	1.02	ug/L #	88
37) Methacrylonitrile	4.132	67	1413	1.10	ug/L #	79
38) Tetrahydrofuran	4.230	42	1559	1.34	ug/L	90
39) Chloroform	4.279	83	4825	1.09	ug/L	96
40) 1,1,1-Trichloroethane	4.553	97	4607	1.31	ug/L	90

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.522	73	8801	1.33	ug/L	96
43) Cyclohexane	4.638	41	2768m	1.08	ug/L	
45) Carbontetrachloride	4.846	117	3641	1.29	ug/L	99
46) 1,1-Dichloropropene	4.852	75	3686	1.10	ug/L	95
48) Benzene	5.224	78	10555	1.10	ug/L	95
49) 1,2-Dichloroethane	5.266	62	4048	1.04	ug/L	88
50) Iso-Butyl Alcohol	5.266	43	4630	26.19	ug/L	98
51) n-Heptane	5.809	43	3519	1.17	ug/L	87
52) 1-Butanol	6.370	56	6132	64.36	ug/L	100
53) Trichloroethene	6.309	130	3014	1.10	ug/L	89
54) Methylcyclohexane	6.565	55	3437	1.09	ug/L	92
55) 1,2-Diclpropane	6.614	63	2891	1.15	ug/L	92
56) Dibromomethane	6.772	93	1863	1.07	ug/L	93
57) 1,4-Dioxane	6.864	88	1380	26.46	ug/L	80
58) Methyl Methacrylate	6.894	69	2488	1.17	ug/L #	84
59) Bromodichloromethane	7.028	83	3485	1.14	ug/L	95
60) 2-Nitropropane	7.339	41	2026	2.96	ug/L	84
61) 2-Chloroethylvinyl Ether	7.498	63	976	1.66	ug/L	99
62) cis-1,3-Dichloropropene	8.333	75	3814	1.17	ug/L	94
63) 4-Methyl-2-pentanone	7.863	43	3550	1.11	ug/L	99
65) Toluene	8.028	91	11362	1.06	ug/L	95
66) trans-1,3-Dichloropropene	8.333	75	3814	1.17	ug/L	94
67) Ethyl Methacrylate	8.510	69	4088	1.18	ug/L	98
68) 1,1,2-Trichloroethane	8.534	97	2459	0.96	ug/L	94
71) Tetrachloroethene	8.674	164	2388	1.08	ug/L	93
72) 2-Hexanone	8.875	43	2924	1.24	ug/L	91
73) 1,3-Dichloropropane	8.717	76	4652	1.09	ug/L	89
74) Dibromochloromethane	8.967	129	2690	1.11	ug/L	98
75) N-Butyl Acetate	9.058	43	5950	1.30	ug/L	96
76) 1,2-Dibromoethane	9.064	107	2860	1.13	ug/L	99
77) 3-Chlorobenzotrifluoride	9.656	180	4515	1.11	ug/L #	82
78) Chlorobenzene	9.613	112	7428	1.06	ug/L	96
79) 4-Chlorobenzotrifluoride	9.717	180	4115	1.12	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.711	131	2626	1.13	ug/L	92
81) Ethylbenzene	9.753	106	3908	1.06	ug/L	99
82) (m+p)Xylene	9.875	106	9812	2.15	ug/L	92
83) o-Xylene	10.253	106	4711	1.05	ug/L	93
84) Styrene	10.272	104	7930	1.07	ug/L	89
85) Bromoform	10.418	173	2114	1.23	ug/L	95
86) 2-Chlorobenzotrifluoride	10.521	180	4217	1.05	ug/L	91
87) Isopropylbenzene	10.613	105	12588	1.08	ug/L	98
88) Cyclohexanone	10.662	55	13799	23.13	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	1105	1.30	ug/L	88
91) 1,1,2,2-Tetrachloroethane	10.887	83	3960	1.17	ug/L	96
92) Bromobenzene	10.857	156	3348	1.12	ug/L #	86
93) 1,2,3-Trichloropropane	10.906	110	1385	1.19	ug/L	90
94) n-Propylbenzene	10.985	91	14318	1.13	ug/L	99
95) 2-Chlorotoluene	11.040	91	8714	1.14	ug/L	99
96) 3-Chlorotoluene	11.095	91	9414	1.20	ug/L	97
97) 4-Chlorotoluene	11.137	91	10045	1.11	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	10100	1.13	ug/L	97
99) tert-Butylbenzene	11.424	119	9364	1.18	ug/L	95
100) 1,2,4-Trimethylbenzene	11.466	105	10471	1.15	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	3411	1.05	ug/L	93
102) sec-Butylbenzene	11.613	105	13210	1.14	ug/L	97
103) p-Isopropyltoluene	11.741	119	11005	1.09	ug/L	91

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration

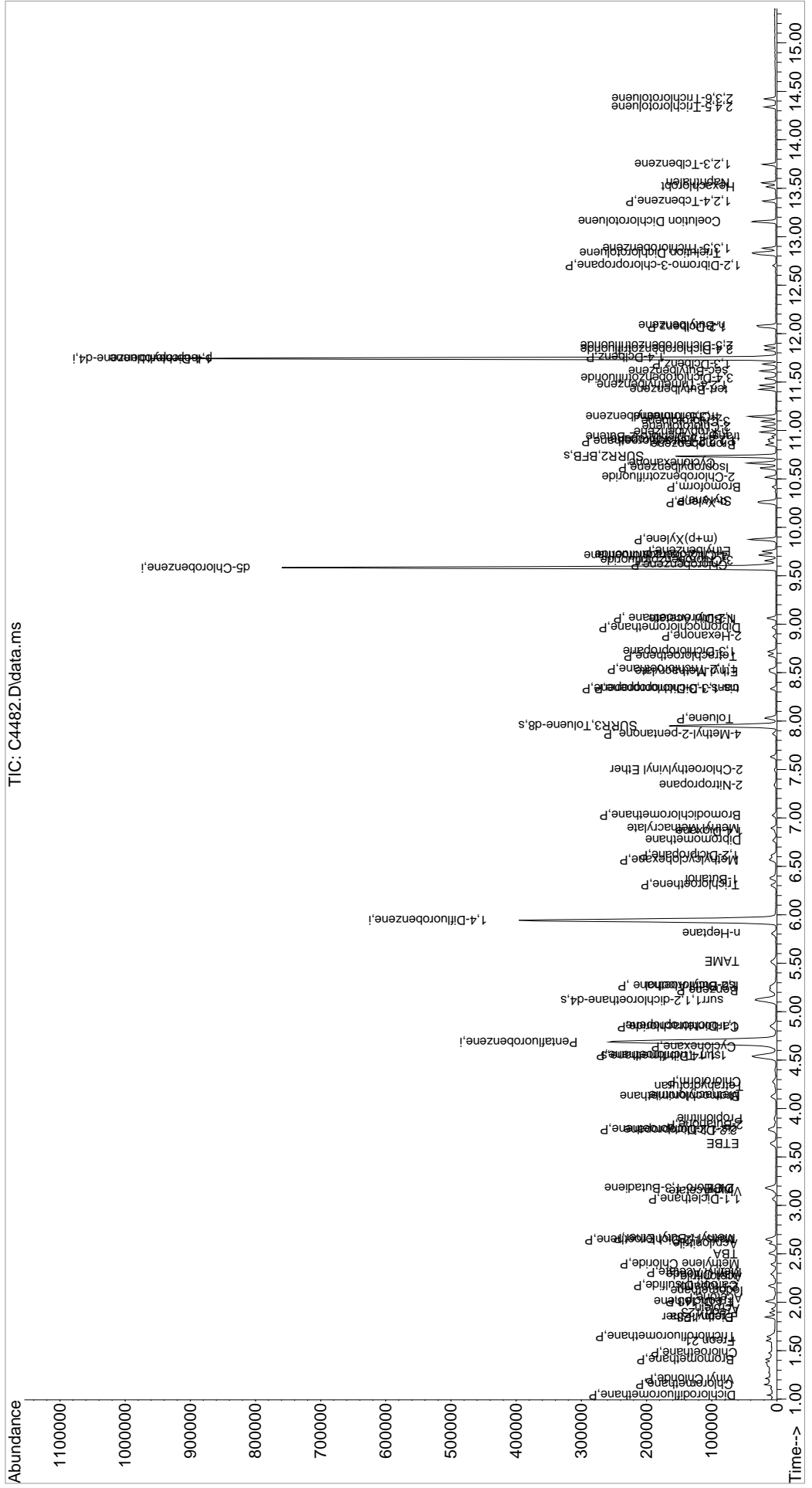
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	5930	1.02	ug/L	94
105) 1,4-Dclbenz	11.759	146	6477	1.07	ug/L	79
106) 2,4-Dichlorobenzotrifl...	11.832	214	3234	1.09	ug/L	93
107) 2,5-Dichlorobenzotrifl...	11.875	214	3879	1.17	ug/L	93
108) n-Butylbenzene	12.082	91	9747	1.09	ug/L	96
109) 1,2-Dclbenz	12.070	146	6206	1.10	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.704	157	1032	1.34	ug/L #	79
111) Trielution Dichlorotol...	12.832	125	16965	3.67	ug/L	98
112) 1,3,5-Trichlorobenzene	12.881	180	5004	1.16	ug/L	97
113) Coelution Dichlorotoluene	13.155	125	11790	2.32	ug/L	91
114) 1,2,4-Tcbenzene	13.368	180	4598	1.11	ug/L	96
115) Hexachlorobt	13.515	225	2127	1.13	ug/L	91
116) Naphthalen	13.557	128	13241	1.21	ug/L	96
117) 1,2,3-Tclbenzene	13.746	180	4537	1.10	ug/L	91
118) 2,4,5-Trichlorotoluene	14.338	159	3391	1.32	ug/L	91
119) 2,3,6-Trichlorotoluene	14.423	159	3267	1.38	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4482.D  
 Acq On : 23 Jan 2018 11:50 am  
 Operator : F. NAEGLER  
 Sample : 1.0 PPB STD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA14

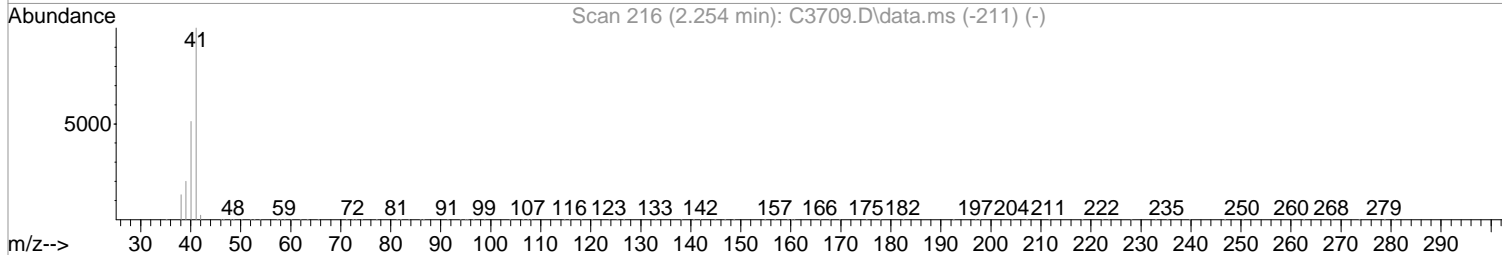
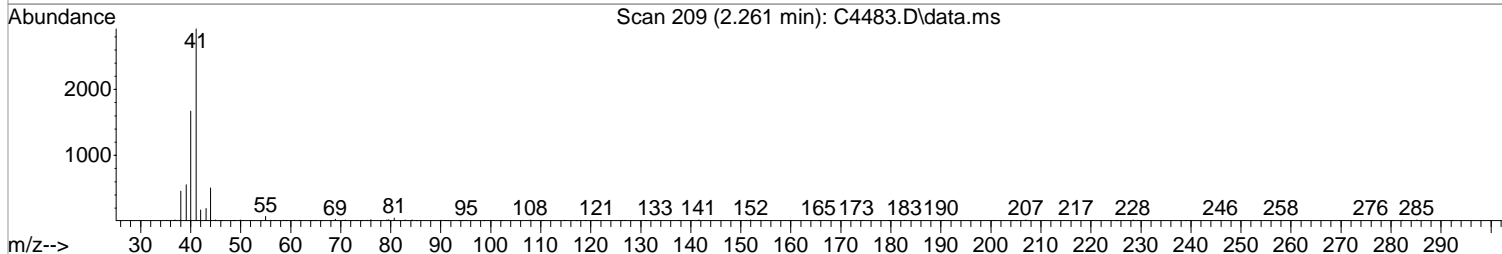
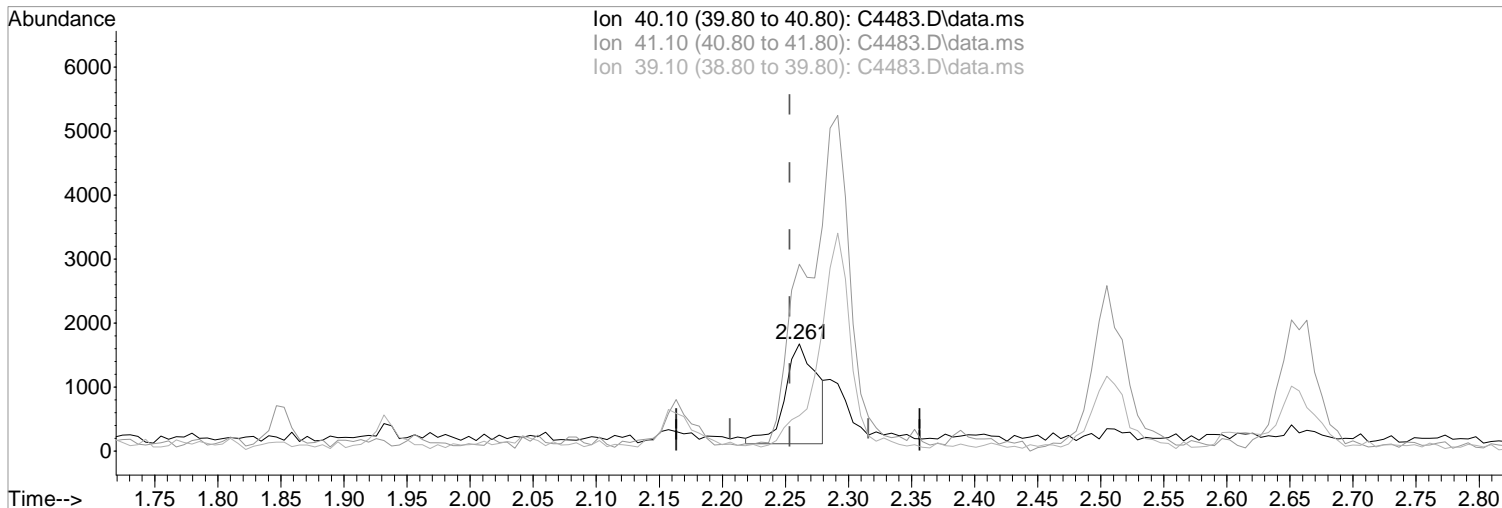
Quant Time: Jan 23 12:53:16 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 11:56:58 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:38:45 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



TIC: C4483.D\data.ms

(19) Acetonitrile  
2.261min (+0.007) 12.36 ug/L m  
response 2771

Manual Integration:  
After  
Poor integration.

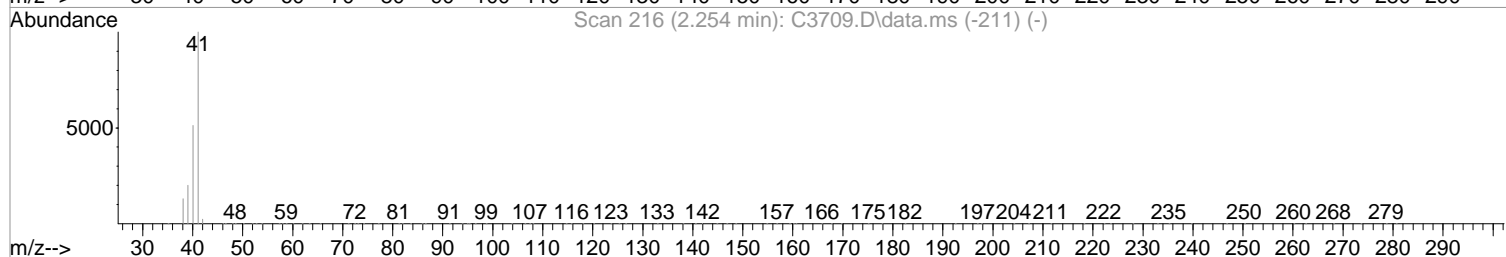
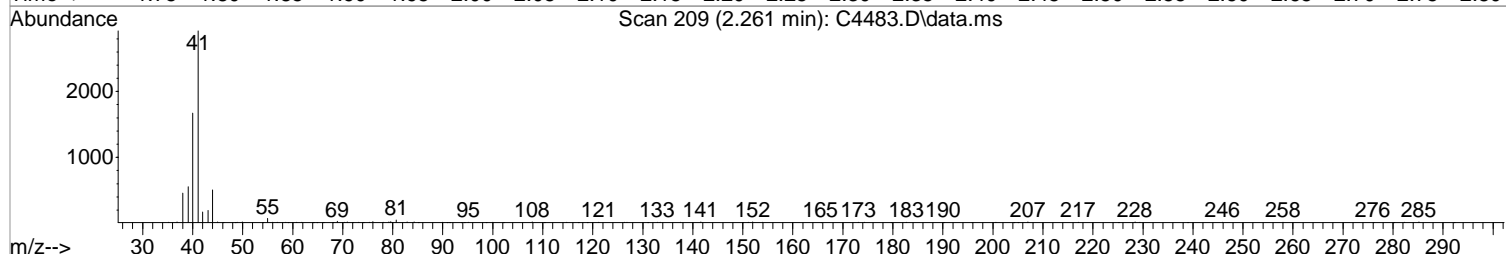
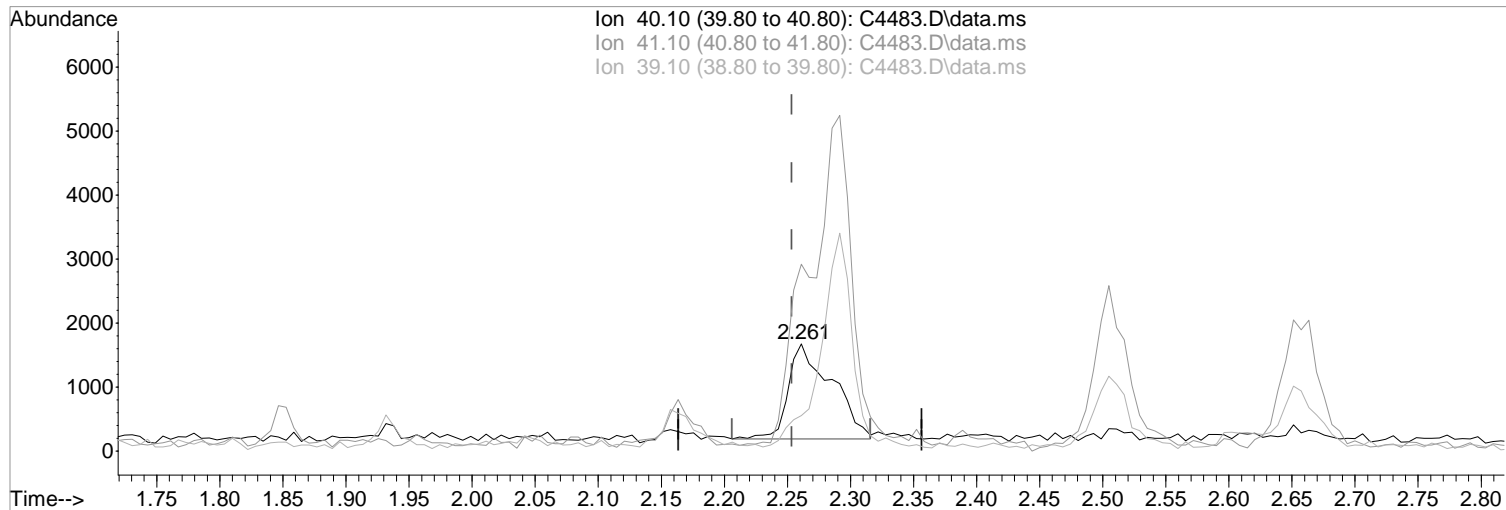
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	174.48
39.10	39.50	33.11
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:38:45 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



TIC: C4483.D\data.ms

(19) Acetonitrile

Manual Integration:

2.261min (+0.007) 15.93 ug/L

Before

response 3571

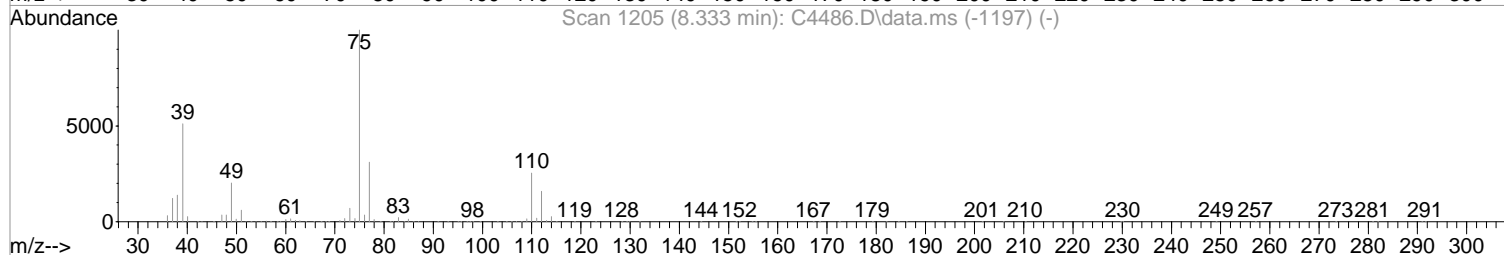
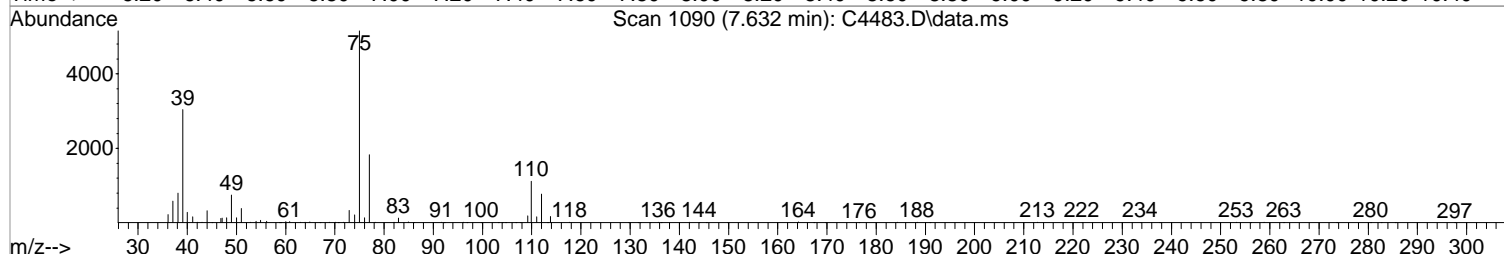
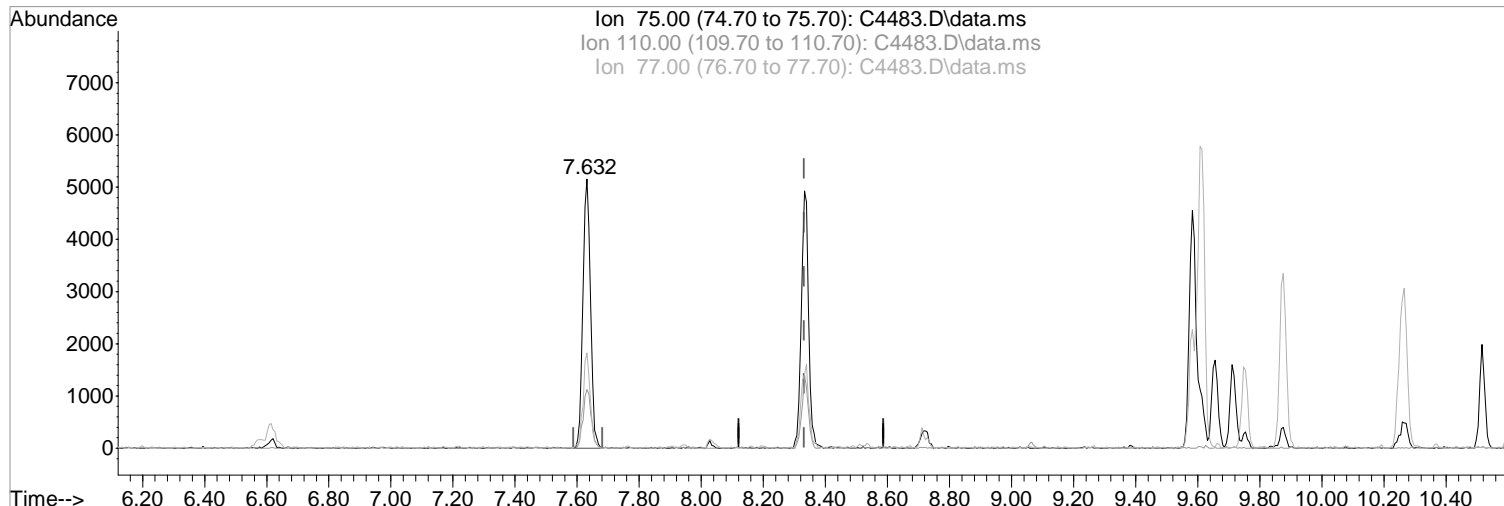
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	174.48
39.10	39.50	33.11
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:47:13 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 2.59 ug/L m

response 8723

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	21.76
77.00	30.20	35.46
0.00	0.00	0.00

Manual Integration:

After

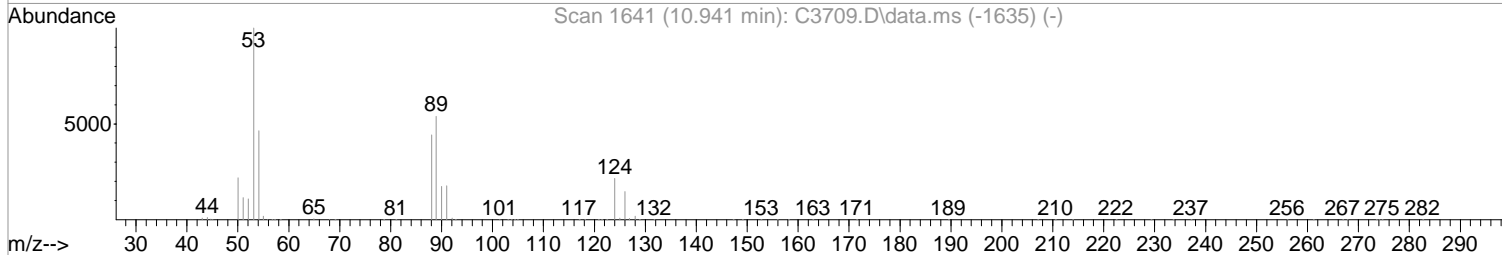
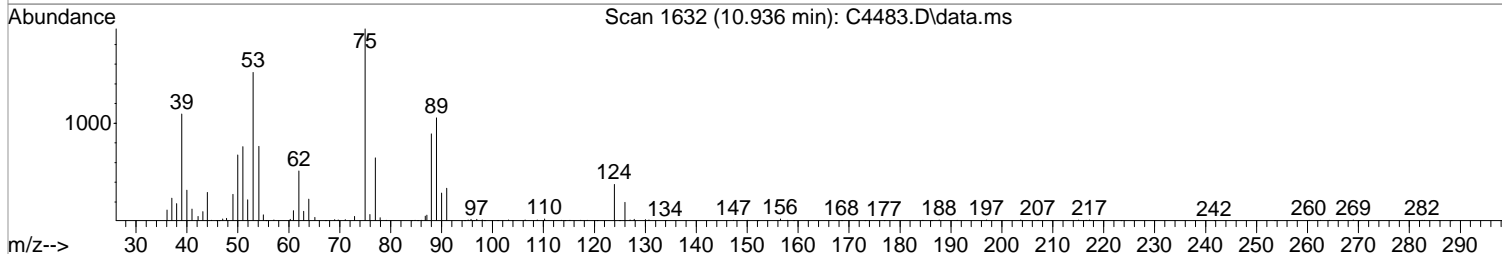
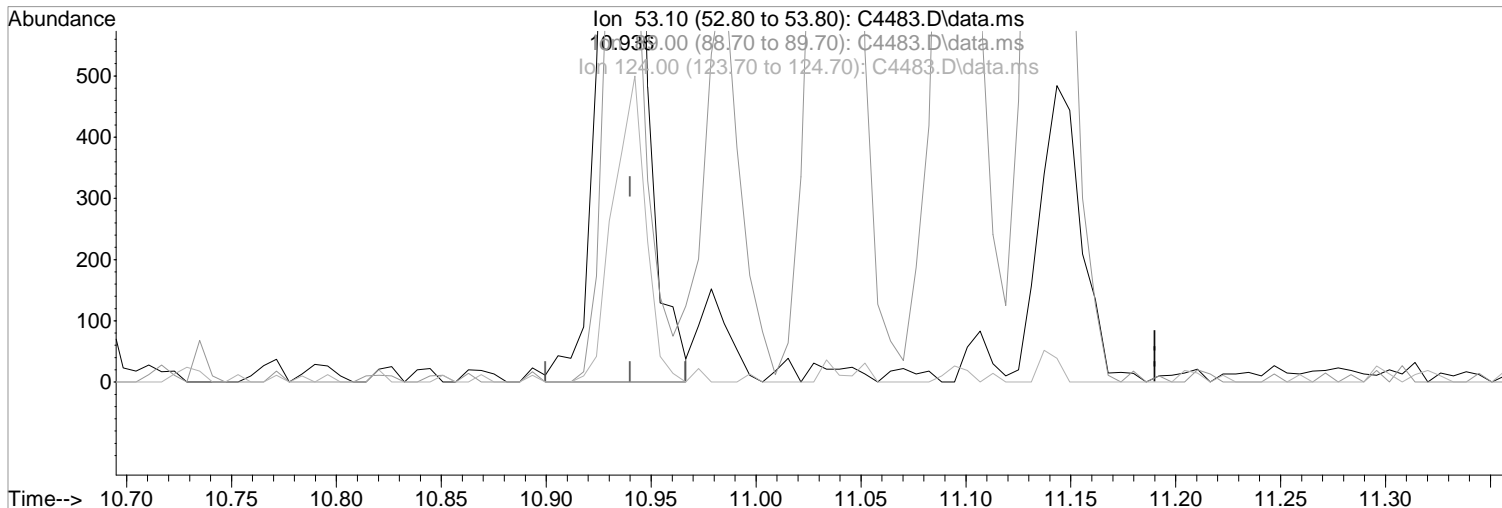
Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:07:21 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



TIC: C4483.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

10.936min (-0.004) 2.24 ug/L m  
response 1971

Ion	Exp%	Act%
53.10	100	100
89.00	54.10	69.41
124.00	21.50	24.92
0.00	0.00	0.00

Manual Integration:

After

Poor integration.

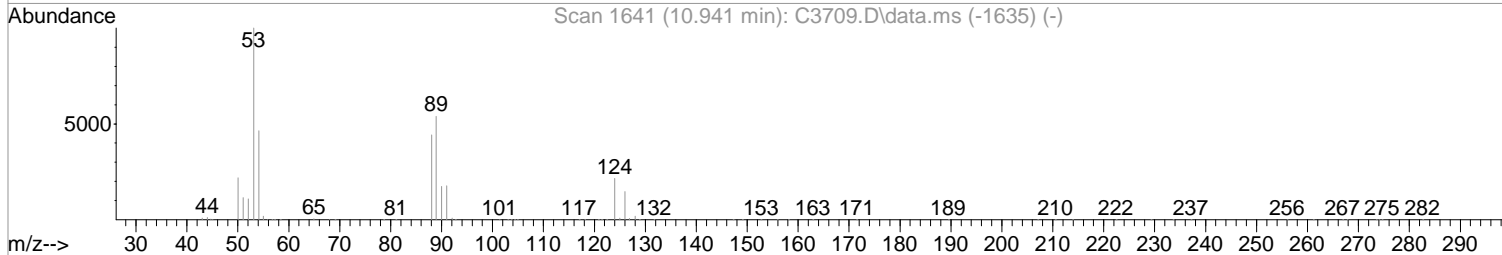
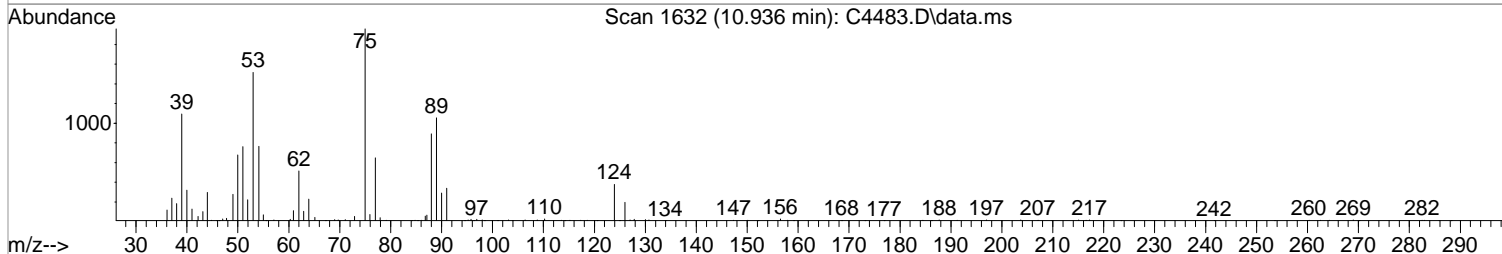
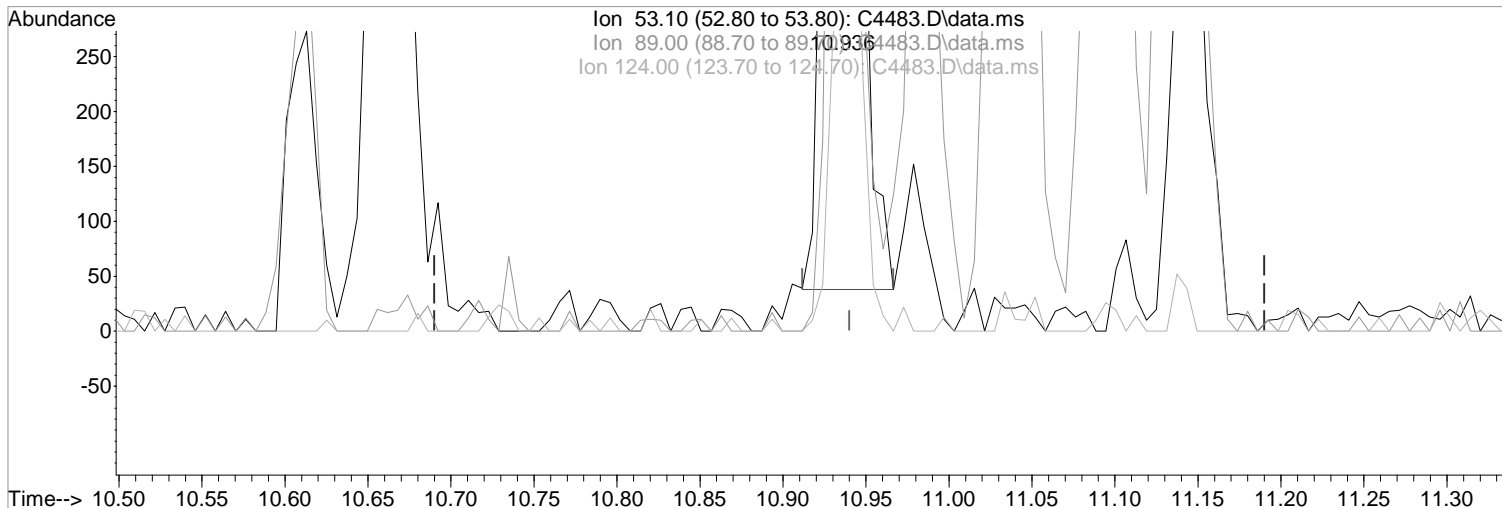
01/23/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4483.D  
Acq On : 23 Jan 2018 12:12 pm  
Operator : F. NAEGLER  
Sample : 2.0 PPB STD  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:39:17 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:38:37 2018  
Response via : Initial Calibration



TIC: C4483.D\data.ms

(89) trans-1,4-Dichloro-2-Butene

Manual Integration:

10.936min (-0.004) 2.06 ug/L

Before

response 1816

Ion Exp% Act%

01/23/18

53.10 100 100

89.00 54.10 69.41

124.00 21.50 24.92

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	257199	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	374447	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	326919	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	180182	50.00	ug/L	0.00

System Monitoring Compounds						
44) surr4,Dibrflmethane	4.529	113	26117	10.90	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	21.80%#
47) surr1,1,2-dichloroetha...	5.126	65	33501	11.02	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	22.04%#
64) SURR3,Toluene-d8	7.955	98	101730	11.12	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	22.24%#
69) SURR2,BFB	10.735	95	40697	11.05	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.10%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.042	85	6479	2.18	ug/L	94
3) Chloromethane	1.151	50	8419	2.65	ug/L	100
4) Vinyl Chloride	1.212	62	6115	2.21	ug/L	96
5) Bromomethane	1.407	94	5153	2.40	ug/L	87
6) Chloroethane	1.474	64	3480	1.90	ug/L	99
7) Freon 21	1.603	67	10788	2.39	ug/L	100
8) Trichlorofluoromethane	1.645	101	7796	2.33	ug/L	98
9) Diethyl Ether	1.846	59	4666	2.25	ug/L	98
10) Freon 123a	1.846	67	5880	2.12	ug/L	93
11) Freon 123	1.895	83	6995	2.25	ug/L	98
12) Acrolein	1.932	56	6603	10.87	ug/L	93
13) 1,1-Dicethene	2.011	96	4621	2.23	ug/L	90
14) Freon 113	2.011	101	4613	2.23	ug/L	82
15) Acetone	2.048	43	3786	2.25	ug/L	95
16) 2-Propanol	2.163	45	12638	53.51	ug/L	88
17) Iodomethane	2.121	142	1554	0.80	ug/L	95
18) Carbon Disulfide	2.176	76	12942	2.38	ug/L	97
19) Acetonitrile	2.261	40	2771m	12.36	ug/L	
20) Allyl Chloride	2.291	76	2425	2.59	ug/L #	89
21) Methyl Acetate	2.316	43	6387	2.47	ug/L	96
22) Methylene Chloride	2.395	84	5778	2.40	ug/L #	83
23) TBA	2.511	59	21472	55.26	ug/L	79
24) Acrylonitrile	2.608	53	13247	10.51	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	17938	2.42	ug/L	99
26) trans-1,2-Dichloroethene	2.645	96	5154	2.26	ug/L	95
27) 1,1-Dicethane	3.066	63	9256	2.21	ug/L	97
28) Vinyl Acetate	3.145	86	1014	2.18	ug/L #	61
29) DIPE	3.181	45	18361	2.36	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	7891	2.10	ug/L	93
31) ETBE	3.639	59	17727	2.51	ug/L	97
32) 2,2-Dichloropropane	3.785	77	8280	2.71	ug/L	96
33) cis-1,2-Dichloroethene	3.791	96	5969	2.19	ug/L	95
34) 2-Butanone	3.828	43	4143	2.03	ug/L	90
35) Propionitrile	3.901	54	6236	11.66	ug/L	97
36) Bromochloromethane	4.126	130	3836	2.28	ug/L #	77
37) Methacrylonitrile	4.126	67	2879	2.25	ug/L #	76
38) Tetrahydrofuran	4.212	42	2683	2.30	ug/L	95
39) Chloroform	4.273	83	9506	2.20	ug/L	93
40) 1,1,1-Trichloroethane	4.547	97	8197	2.31	ug/L	94

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	17774	2.63	ug/L	92
43) Cyclohexane	4.639	41	5462	2.16	ug/L	83
45) Carbontetrachloride	4.846	117	6642	2.28	ug/L #	81
46) 1,1-Dichloropropene	4.852	75	7083	2.13	ug/L	96
48) Benzene	5.224	78	20227	2.13	ug/L	96
49) 1,2-Dichloroethane	5.266	62	8238	2.15	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	9375	52.27	ug/L	99
51) n-Heptane	5.803	43	6840	2.29	ug/L	95
52) 1-Butanol	6.376	56	12890	128.03	ug/L	97
53) Trichloroethene	6.309	130	5827	2.18	ug/L	95
54) Methylcyclohexane	6.565	55	6819	2.19	ug/L #	82
55) 1,2-Diclpropane	6.614	63	5416	2.15	ug/L	96
56) Dibromomethane	6.772	93	3606	2.07	ug/L	93
57) 1,4-Dioxane	6.858	88	2402	44.81	ug/L	94
58) Methyl Methacrylate	6.900	69	4803	2.23	ug/L	86
59) Bromodichloromethane	7.028	83	6833	2.21	ug/L	98
60) 2-Nitropropane	7.339	41	3738	5.13	ug/L	99
61) 2-Chloroethylvinyl Ether	7.498	63	1907	2.95	ug/L	94
62) cis-1,3-Dichloropropene	8.333	75	7884	2.34	ug/L	96
63) 4-Methyl-2-pentanone	7.870	43	7560	2.34	ug/L	87
65) Toluene	8.028	91	22306	2.12	ug/L	94
66) trans-1,3-Dichloropropene	8.333	75	7884	2.34	ug/L	96
67) Ethyl Methacrylate	8.510	69	8180	2.31	ug/L	92
68) 1,1,2-Trichloroethane	8.534	97	5211	2.08	ug/L	97
71) Tetrachloroethene	8.674	164	4850	2.28	ug/L	91
72) 2-Hexanone	8.876	43	5875	2.45	ug/L	98
73) 1,3-Dichloropropane	8.717	76	9364	2.24	ug/L	96
74) Dibromochloromethane	8.967	129	5491	2.27	ug/L	98
75) N-Butyl Acetate	9.058	43	11773	2.51	ug/L	97
76) 1,2-Dibromoethane	9.064	107	5093	2.02	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	8745	2.19	ug/L	87
78) Chlorobenzene	9.613	112	15221	2.23	ug/L	97
79) 4-Chlorobenzotrifluoride	9.717	180	8237	2.29	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.711	131	5533	2.38	ug/L	94
81) Ethylbenzene	9.753	106	7309	2.03	ug/L	91
82) (m+p)Xylene	9.875	106	19666	4.40	ug/L	99
83) o-Xylene	10.253	106	9611	2.19	ug/L #	87
84) Styrene	10.265	104	15730	2.13	ug/L	96
85) Bromoform	10.418	173	3628	2.06	ug/L	95
86) 2-Chlorobenzotrifluoride	10.522	180	8642	2.20	ug/L	93
87) Isopropylbenzene	10.613	105	24773	2.15	ug/L	99
88) Cyclohexanone	10.662	55	27876	45.83	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	1971m	2.24	ug/L	
91) 1,1,2,2-Tetrachloroethane	10.887	83	8000	2.31	ug/L	97
92) Bromobenzene	10.851	156	6739	2.25	ug/L #	82
93) 1,2,3-Trichloropropane	10.906	110	2692	2.28	ug/L	92
94) n-Propylbenzene	10.985	91	27758	2.19	ug/L	97
95) 2-Chlorotoluene	11.040	91	17475	2.29	ug/L	100
96) 3-Chlorotoluene	11.095	91	18574	2.33	ug/L	99
97) 4-Chlorotoluene	11.137	91	20086	2.23	ug/L	97
98) 1,3,5-Trimethylbenzene	11.143	105	20738	2.30	ug/L	92
99) tert-Butylbenzene	11.424	119	18466	2.29	ug/L	96
100) 1,2,4-Trimethylbenzene	11.466	105	20558	2.23	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	6957	2.18	ug/L	97
102) sec-Butylbenzene	11.613	105	25123	2.15	ug/L	96
103) p-Isopropyltoluene	11.741	119	22434	2.24	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration

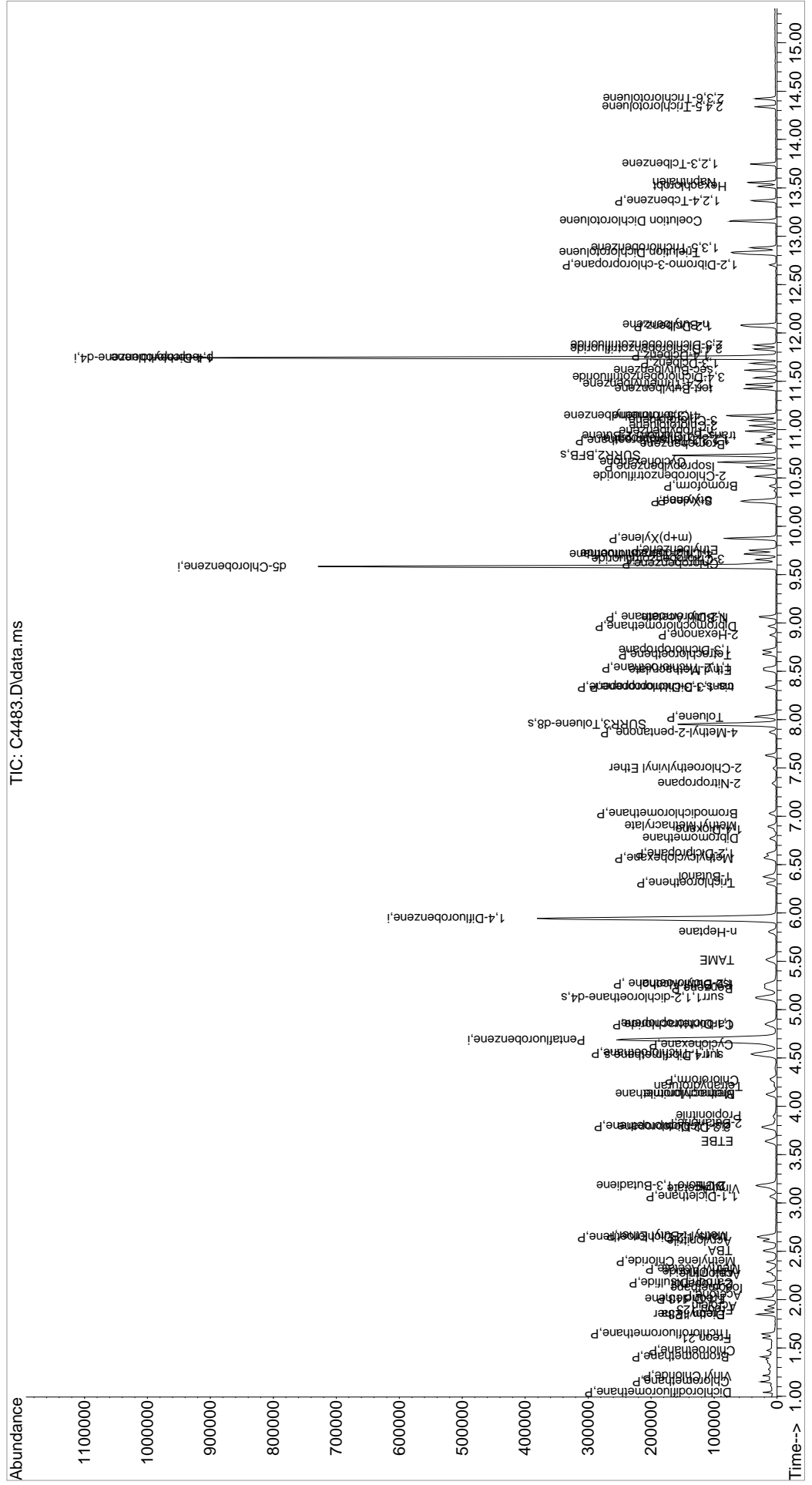
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	12443	2.19	ug/L	94
105) 1,4-Dclbenz	11.765	146	13354	2.23	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	6346	2.16	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.875	214	7092	2.15	ug/L	97
108) n-Butylbenzene	12.082	91	19111	2.13	ug/L	96
109) 1,2-Dclbenz	12.070	146	12402	2.21	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	1977	2.44	ug/L	93
111) Trielution Dichlorotol...	12.832	125	33355	7.09	ug/L	94
112) 1,3,5-Trichlorobenzene	12.881	180	9252	2.14	ug/L	91
113) Coelution Dichlorotoluene	13.161	125	23514	4.59	ug/L	98
114) 1,2,4-Tcbenzene	13.369	180	8820	2.12	ug/L	93
115) Hexachlorobt	13.515	225	4053	2.15	ug/L	95
116) Naphthalen	13.557	128	27605	2.47	ug/L	99
117) 1,2,3-Tclbenzene	13.746	180	9002	2.20	ug/L	95
118) 2,4,5-Trichlorotoluene	14.338	159	6447	2.41	ug/L	96
119) 2,3,6-Trichlorotoluene	14.423	159	5771	2.33	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4483.D  
 Acq On : 23 Jan 2018 12:12 pm  
 Operator : F. NAEGLER  
 Sample : 2.0 PPB STD  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA14

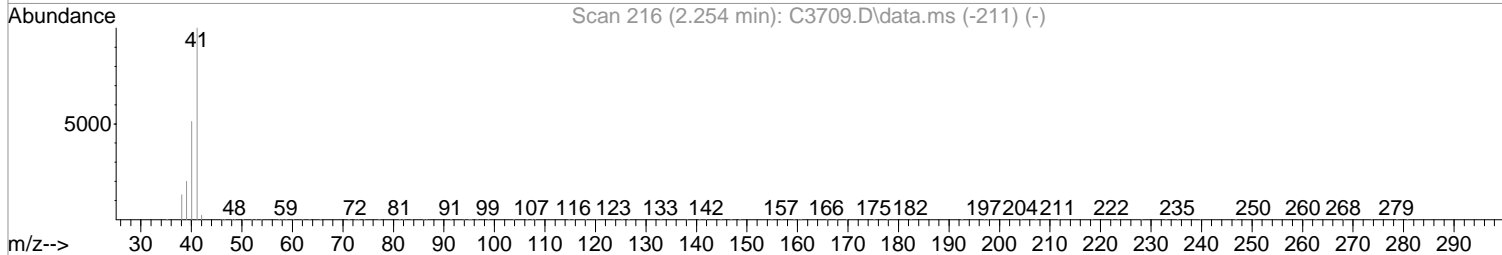
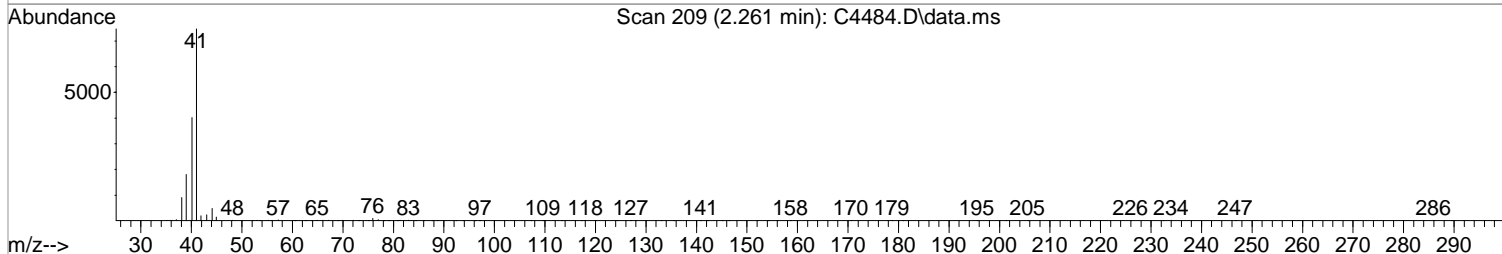
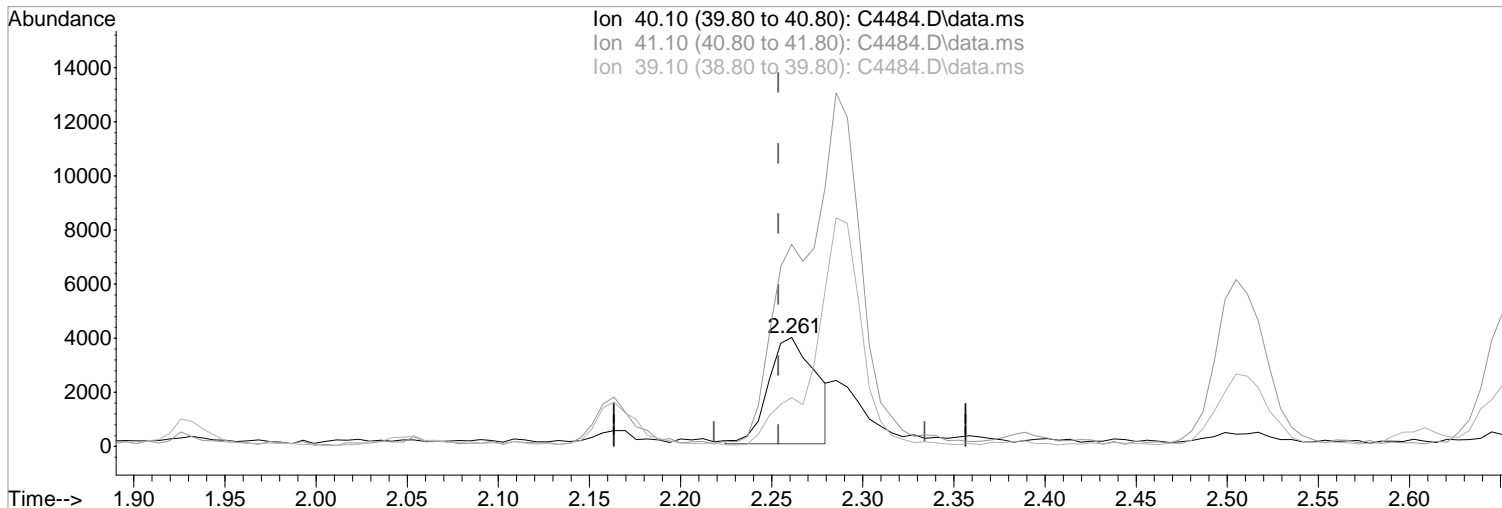
Quant Time: Jan 23 13:08:30 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:38:37 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4484.D  
Acq On : 23 Jan 2018 12:34 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:49:10 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:40:28 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.007) 30.60 ug/L m  
response 7102

Manual Integration:  
After  
Poor integration.

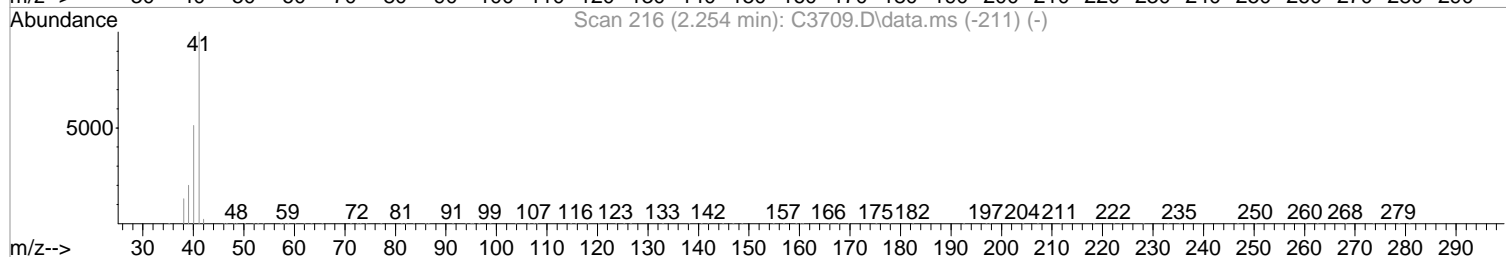
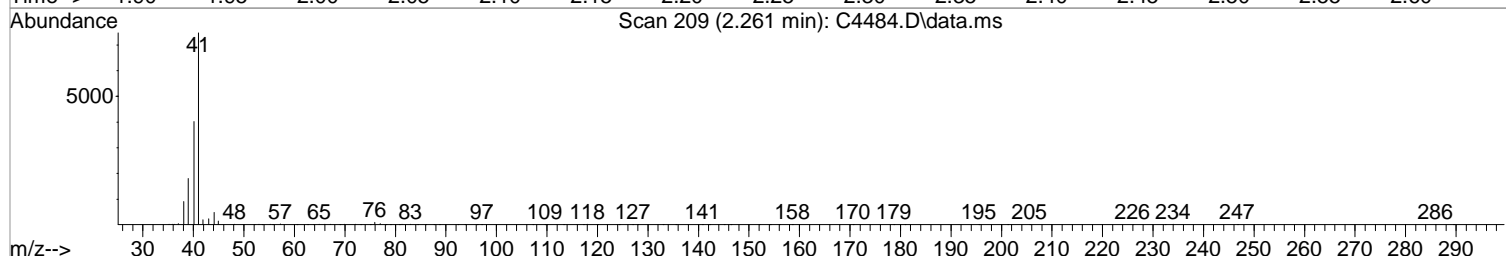
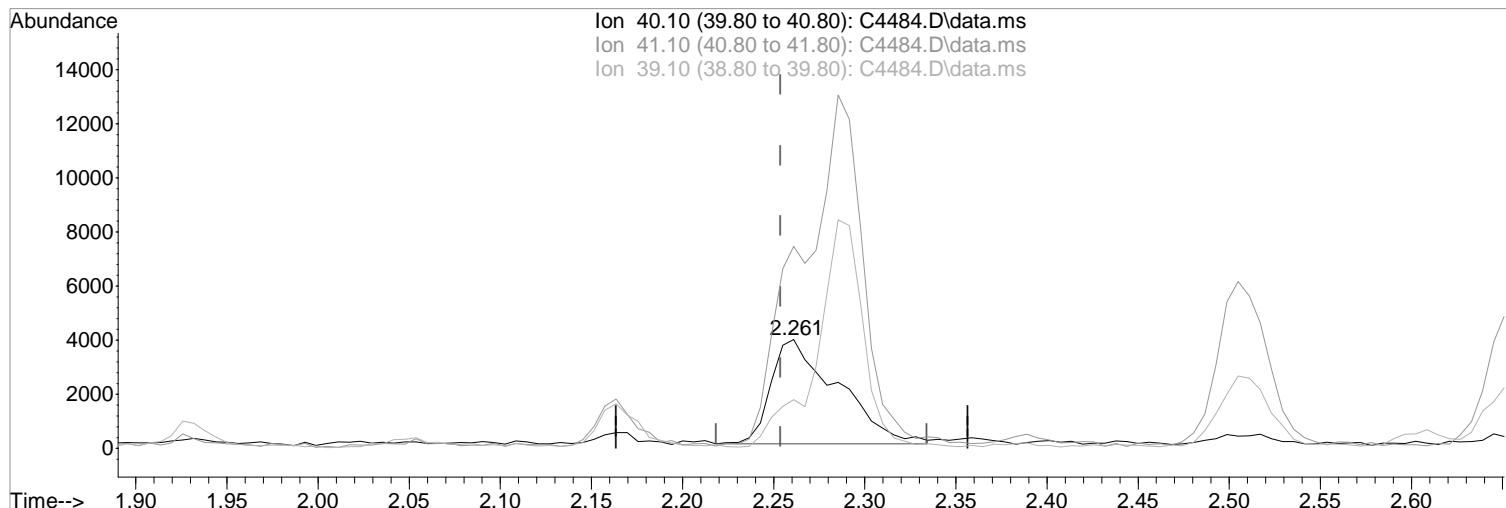
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	185.66
39.10	39.50	44.73
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:49:10 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration



TIC: C4484.D\data.ms

(19) Acetonitrile

Manual Integration:

2.261min (+0.007) 42.48 ug/L

Before

response 9860

Ion Exp% Act%

01/23/18

40.10 100 100

41.10 193.90 185.66

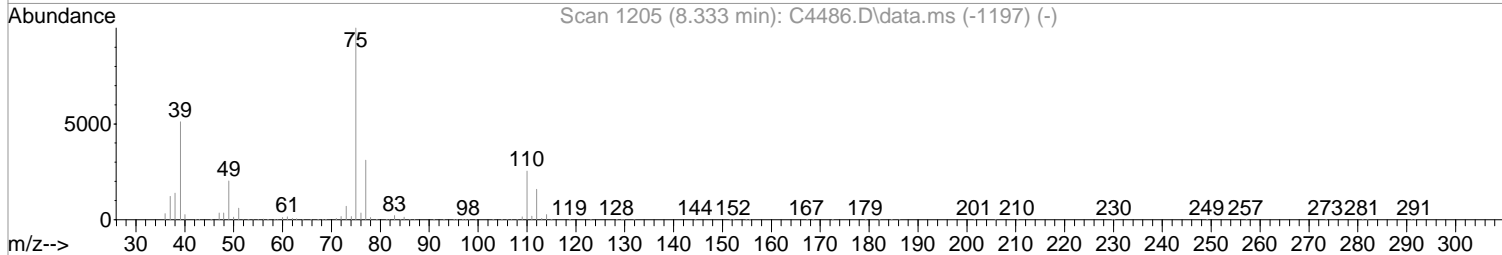
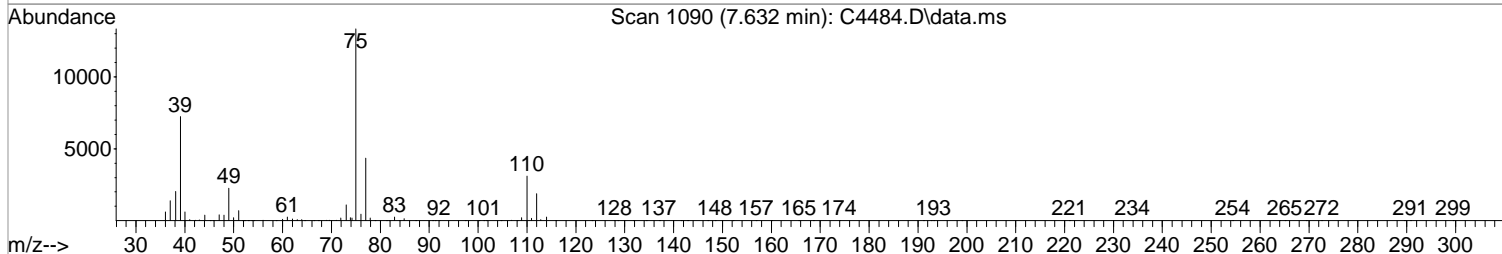
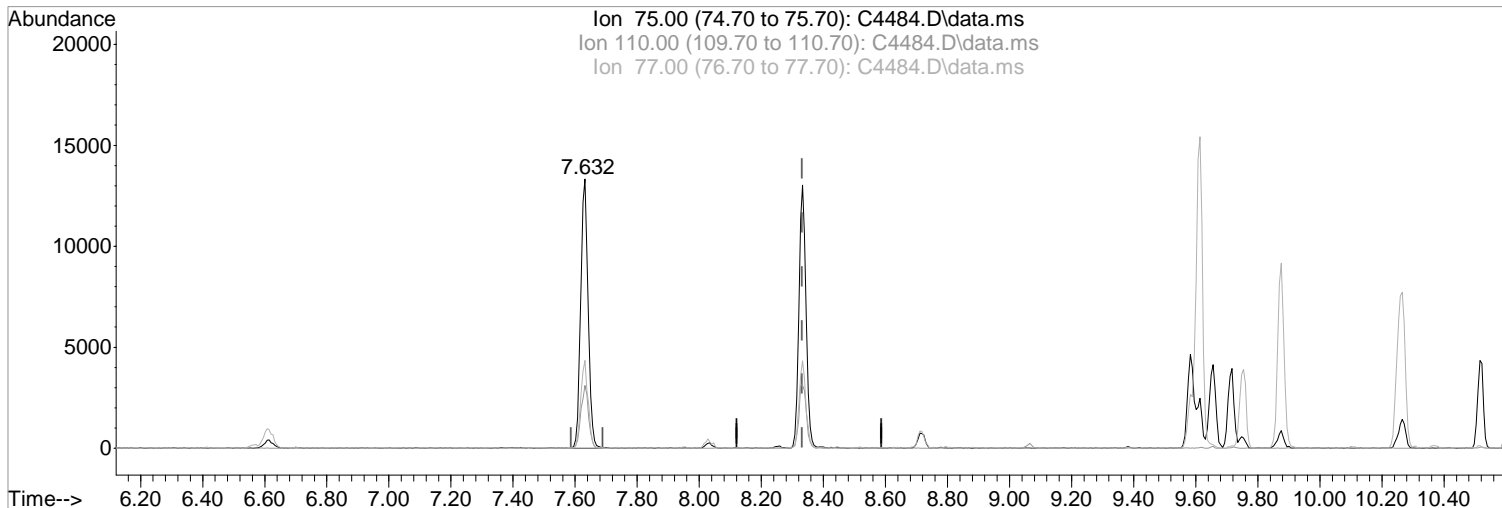
39.10 39.50 44.73

0.00 0.00 0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4484.D  
Acq On : 23 Jan 2018 12:34 pm  
Operator : F. NAEGLER  
Sample : 5.0 PPB STD  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:47:48 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 12:40:28 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 6.28 ug/L m

response 21975

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	23.26
77.00	30.20	32.60
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	257267	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	370962	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	327172	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	182124	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	28110	11.84	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	23.68%#	
47) surr1,1,2-dichloroetha...	5.120	65	34332	11.40	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	22.80%#	
64) SURR3,Toluene-d8	7.949	98	104517	11.53	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	23.06%#	
69) SURR2,BFB	10.735	95	41870	11.47	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	22.94%#	
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	15820	5.23	ug/L	98
3) Chloromethane	1.151	50	19038	5.74	ug/L	92
4) Vinyl Chloride	1.212	62	15525	5.51	ug/L	97
5) Bromomethane	1.401	94	9411	4.30	ug/L	94
6) Chloroethane	1.475	64	9263	5.14	ug/L	94
7) Freon 21	1.603	67	23963	5.21	ug/L	97
8) Trichlorofluoromethane	1.645	101	19060	5.59	ug/L	97
9) Diethyl Ether	1.846	59	11658	5.54	ug/L	91
10) Freon 123a	1.846	67	14934	5.37	ug/L	90
11) Freon 123	1.889	83	17209	5.46	ug/L	98
12) Acrolein	1.932	56	16509	26.58	ug/L	96
13) 1,1-Dicethene	2.005	96	11652	5.54	ug/L	95
14) Freon 113	2.011	101	11511	5.53	ug/L	100
15) Acetone	2.048	43	9587	5.62	ug/L	97
16) 2-Propanol	2.163	45	33159	131.01	ug/L	87
17) Iodomethane	2.121	142	3553	1.90	ug/L	85
18) Carbon Disulfide	2.170	76	33099	5.83	ug/L	97
19) Acetonitrile	2.261	40	7102m	30.60	ug/L	
20) Allyl Chloride	2.285	76	5501	5.63	ug/L #	84
21) Methyl Acetate	2.310	43	14766	5.55	ug/L	95
22) Methylene Chloride	2.389	84	13196	5.35	ug/L	96
23) TBA	2.511	59	54844	132.27	ug/L	83
24) Acrylonitrile	2.608	53	35542	27.79	ug/L	99
25) Methyl-t-Butyl Ether	2.657	73	45550	5.93	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	12674	5.49	ug/L	98
27) 1,1-Dicethane	3.066	63	23280	5.51	ug/L	98
28) Vinyl Acetate	3.145	86	2904	5.96	ug/L #	64
29) DIPE	3.182	45	43565	5.43	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.175	53	19726	5.18	ug/L	98
31) ETBE	3.639	59	44389	6.03	ug/L	96
32) 2,2-Dichloropropane	3.785	77	19945	6.19	ug/L	97
33) cis-1,2-Dichloroethene	3.785	96	14823	5.38	ug/L	97
34) 2-Butanone	3.828	43	10510	5.09	ug/L	91
35) Propionitrile	3.889	54	15370	27.84	ug/L	97
36) Bromochloromethane	4.120	130	9560	5.62	ug/L	97
37) Methacrylonitrile	4.127	67	7568	5.79	ug/L #	84
38) Tetrahydrofuran	4.218	42	6666	5.56	ug/L	99
39) Chloroform	4.273	83	23285	5.31	ug/L	97
40) 1,1,1-Trichloroethane	4.547	97	21115	5.76	ug/L	92

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	43370	6.08	ug/L	96
43) Cyclohexane	4.639	41	12966	5.13	ug/L	90
45) Carbontetrachloride	4.840	117	17336	5.81	ug/L	97
46) 1,1-Dichloropropene	4.852	75	17887	5.40	ug/L	96
48) Benzene	5.218	78	50121	5.28	ug/L	96
49) 1,2-Dichloroethane	5.260	62	20664	5.38	ug/L	98
50) Iso-Butyl Alcohol	5.267	43	23046	121.72	ug/L	97
51) n-Heptane	5.809	43	15780	5.24	ug/L	96
52) 1-Butanol	6.376	56	35302	328.60	ug/L	94
53) Trichloroethene	6.303	130	14353	5.42	ug/L	96
54) Methylcyclohexane	6.571	55	16968	5.46	ug/L	96
55) 1,2-Diclpropane	6.614	63	13734	5.43	ug/L	100
56) Dibromomethane	6.766	93	9087	5.22	ug/L	94
57) 1,4-Dioxane	6.858	88	6219	113.12	ug/L	99
58) Methyl Methacrylate	6.894	69	12335	5.58	ug/L	97
59) Bromodichloromethane	7.028	83	17361	5.50	ug/L	98
60) 2-Nitropropane	7.339	41	9568	12.30	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	5373	7.57	ug/L	93
62) cis-1,3-Dichloropropene	8.333	75	20214	5.77	ug/L	96
63) 4-Methyl-2-pentanone	7.870	43	17986	5.39	ug/L	95
65) Toluene	8.028	91	55133	5.25	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	20214	5.77	ug/L	96
67) Ethyl Methacrylate	8.504	69	20735	5.63	ug/L	92
68) 1,1,2-Trichloroethane	8.534	97	13392	5.32	ug/L	94
71) Tetrachloroethene	8.680	164	11471	5.34	ug/L	98
72) 2-Hexanone	8.876	43	14221	5.68	ug/L	96
73) 1,3-Dichloropropane	8.717	76	23001	5.44	ug/L	97
74) Dibromochloromethane	8.967	129	13418	5.28	ug/L	99
75) N-Butyl Acetate	9.058	43	29336	5.88	ug/L	97
76) 1,2-Dibromoethane	9.065	107	14324	5.60	ug/L	93
77) 3-Chlorobenzotrifluoride	9.656	180	21759	5.40	ug/L	95
78) Chlorobenzene	9.613	112	37358	5.42	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	19777	5.37	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.711	131	13723	5.71	ug/L	98
81) Ethylbenzene	9.753	106	20259	5.64	ug/L	95
82) (m+p)Xylene	9.875	106	49118	10.86	ug/L	97
83) o-Xylene	10.253	106	23748	5.34	ug/L	98
84) Styrene	10.266	104	40816	5.39	ug/L	97
85) Bromoform	10.418	173	9646	5.25	ug/L	98
86) 2-Chlorobenzotrifluoride	10.522	180	21499	5.34	ug/L	97
87) Isopropylbenzene	10.613	105	63290	5.40	ug/L	99
88) Cyclohexanone	10.662	55	73014	114.84	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	5240	5.74	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.887	83	19598	5.44	ug/L	97
92) Bromobenzene	10.851	156	16449	5.36	ug/L #	85
93) 1,2,3-Trichloropropane	10.906	110	7007	5.79	ug/L	98
94) n-Propylbenzene	10.985	91	70907	5.45	ug/L	98
95) 2-Chlorotoluene	11.040	91	43325	5.52	ug/L	99
96) 3-Chlorotoluene	11.095	91	45641	5.52	ug/L	99
97) 4-Chlorotoluene	11.137	91	50576	5.45	ug/L	98
98) 1,3,5-Trimethylbenzene	11.143	105	52490	5.64	ug/L	98
99) tert-Butylbenzene	11.424	119	46840	5.64	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	51547	5.42	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.534	214	17298	5.30	ug/L	90
102) sec-Butylbenzene	11.613	105	66444	5.56	ug/L	98
103) p-Isopropyltoluene	11.741	119	57052	5.55	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration

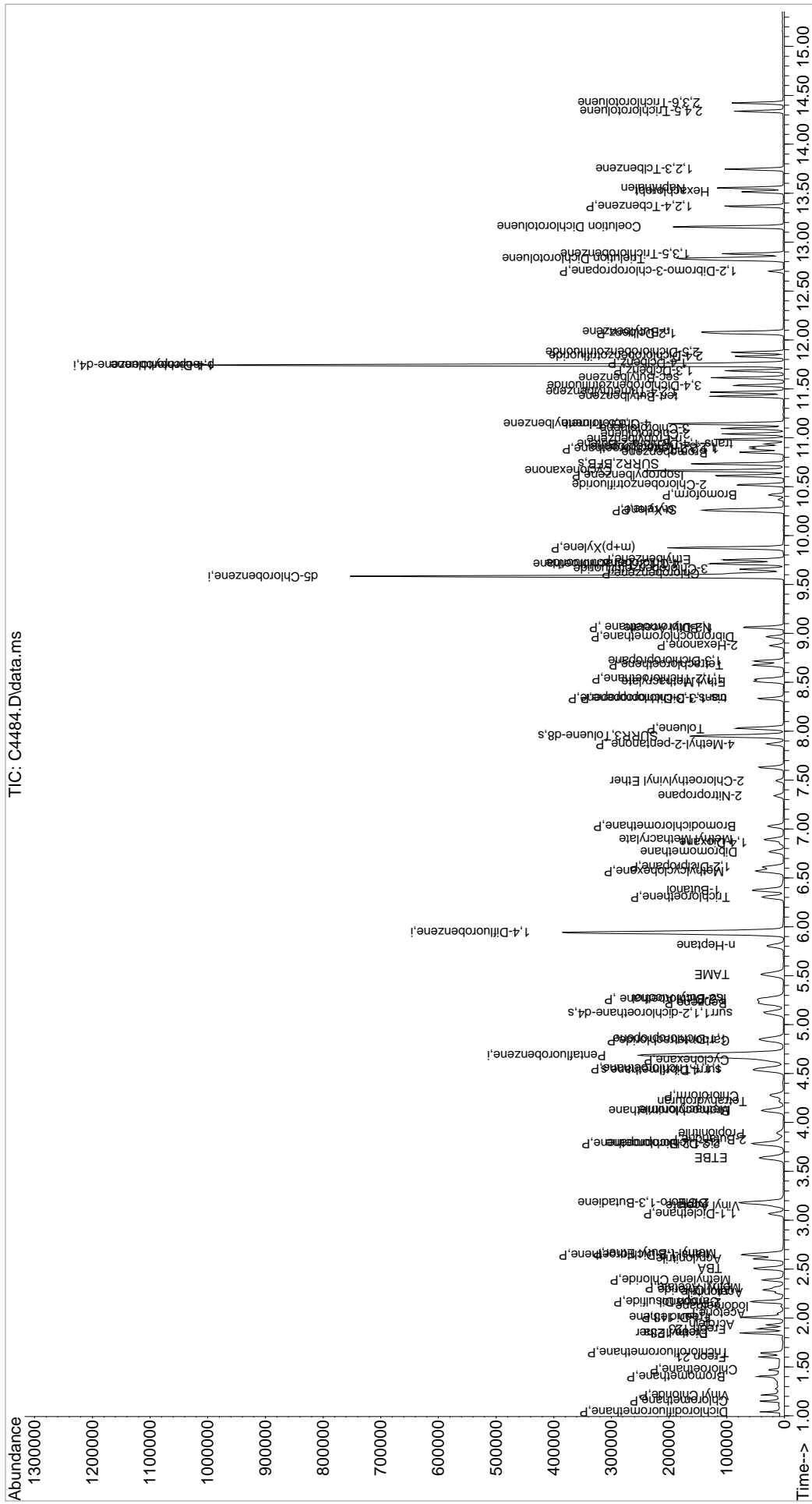
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	31191	5.35	ug/L	97
105) 1,4-Dclbenz	11.765	146	31930	5.23	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.832	214	15812	5.26	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.875	214	18375	5.47	ug/L	97
108) n-Butylbenzene	12.082	91	49324	5.37	ug/L	98
109) 1,2-Dclbenz	12.070	146	30026	5.23	ug/L	95
110) 1,2-Dibromo-3-chloropr...	12.704	157	5439	6.26	ug/L	94
111) Trielution Dichlorotol...	12.832	125	83948	17.19	ug/L	97
112) 1,3,5-Trichlorobenzene	12.881	180	24316	5.54	ug/L	97
113) Coelution Dichlorotoluene	13.155	125	61143	11.53	ug/L	96
114) 1,2,4-Tcbenzene	13.369	180	23789	5.61	ug/L	96
115) Hexachlorobt	13.515	225	10610	5.52	ug/L	98
116) Naphthalen	13.551	128	69437	5.91	ug/L	100
117) 1,2,3-Tclbenzene	13.747	180	23057	5.53	ug/L	96
118) 2,4,5-Trichlorotoluene	14.338	159	16733	5.98	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	15447	5.94	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4484.D  
 Acq On : 23 Jan 2018 12:34 pm  
 Operator : F. NAEGLER  
 Sample : 5.0 PPB STD  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA14

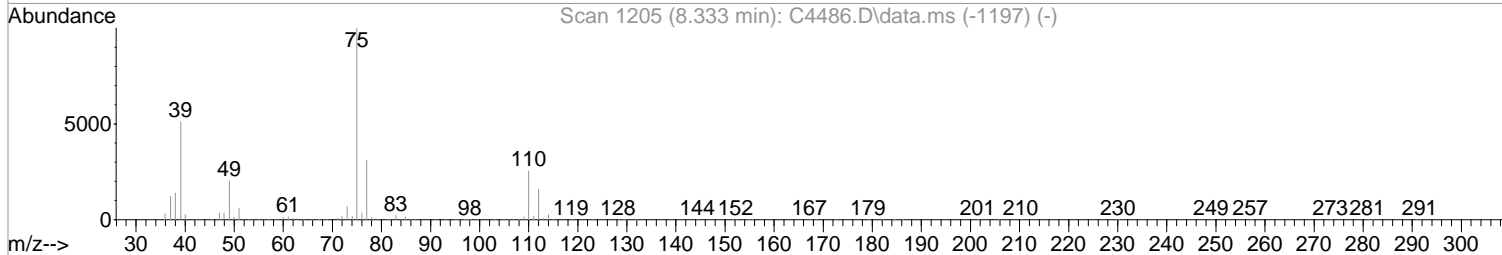
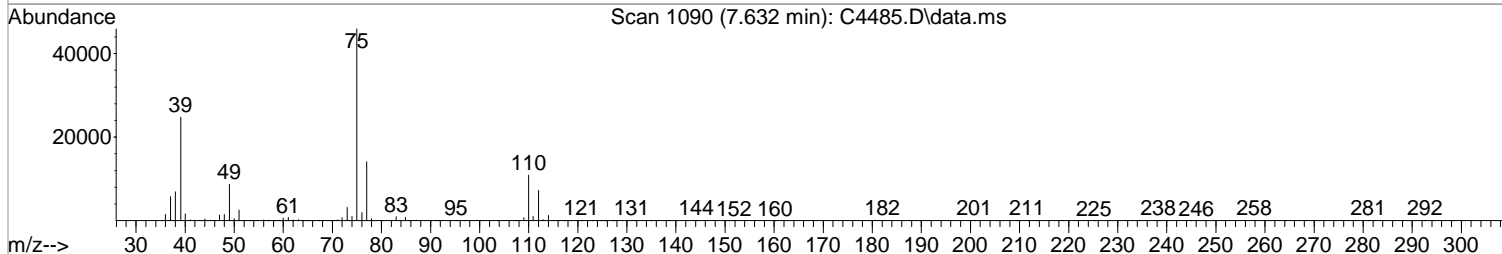
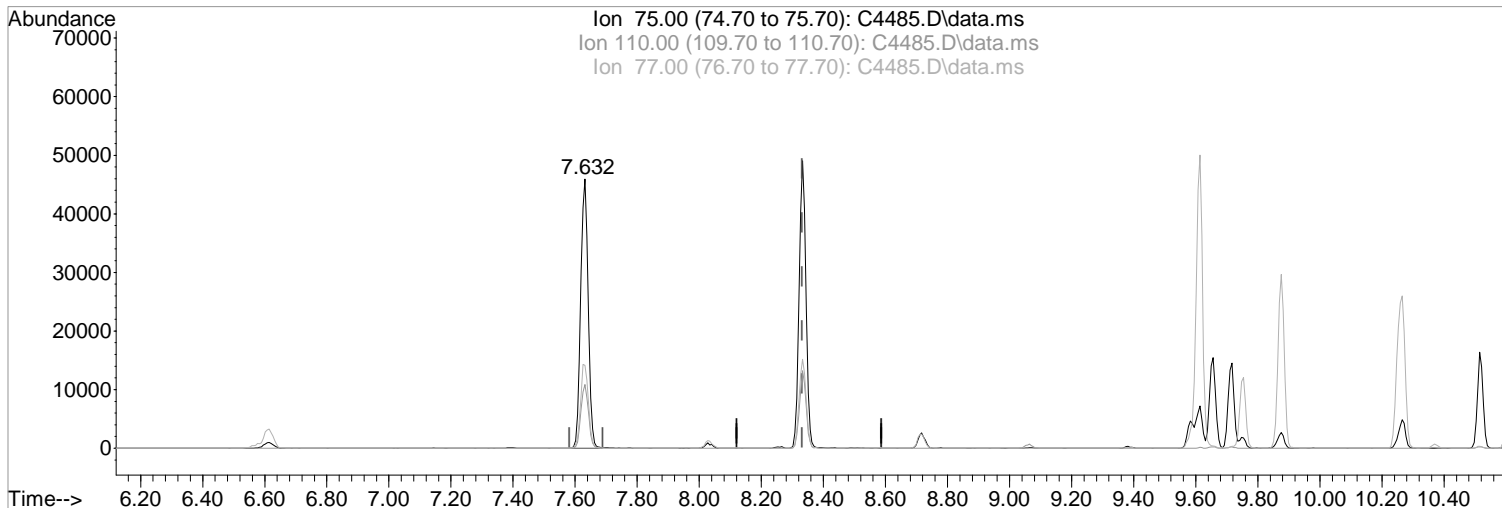
Quant Time: Jan 23 12:49:36 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 12:40:28 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4485.D  
Acq On : 23 Jan 2018 12:56 pm  
Operator : F. NAEGLER  
Sample : 20 PPB STD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:48:17 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:08:47 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 19.11 ug/L m

response 76711

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	23.65
77.00	30.20	30.77
0.00	0.00	0.00

Manual Integration:

After

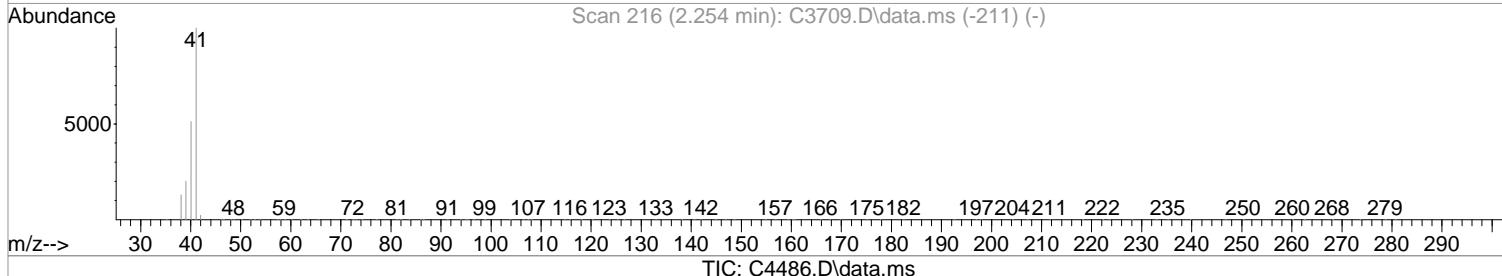
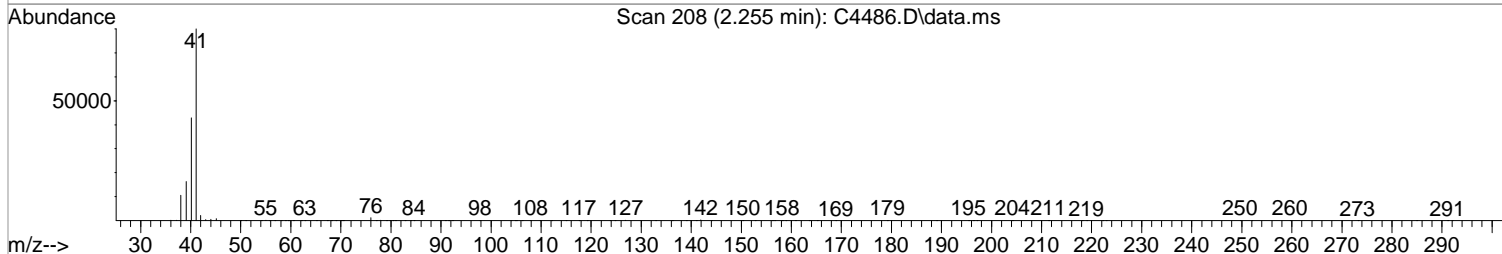
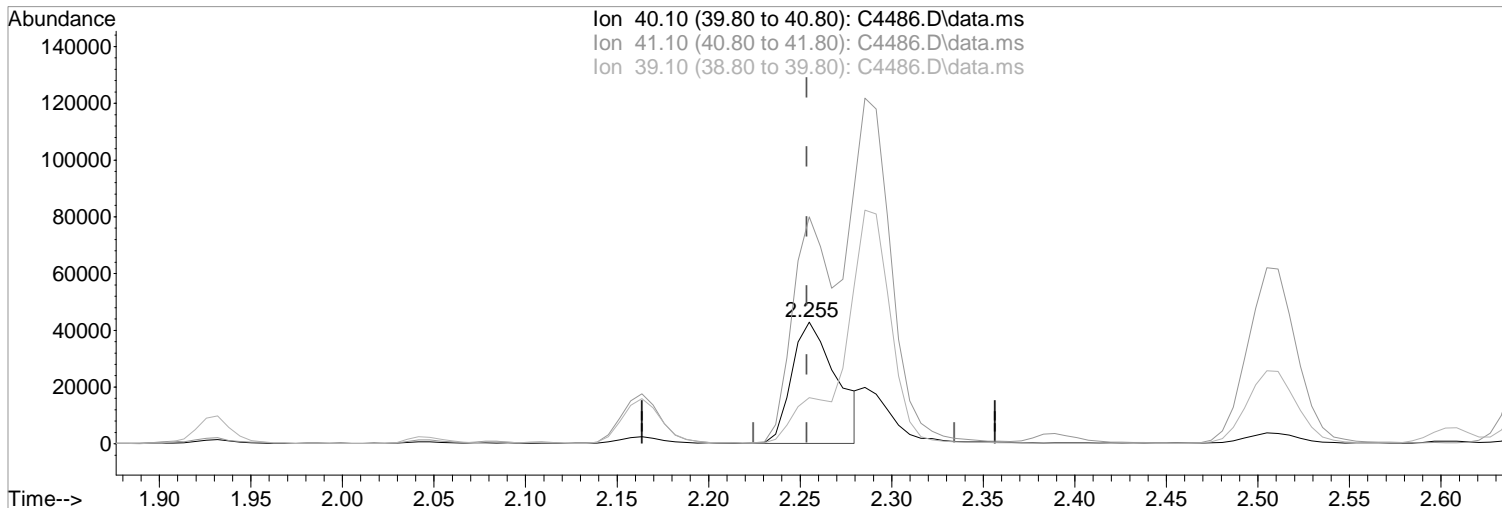
Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4486.D  
Acq On : 23 Jan 2018 1:19 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:40:00 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:14:46 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (+0.001) 252.03 ug/L m  
response 72590

Manual Integration:  
After  
Poor integration.

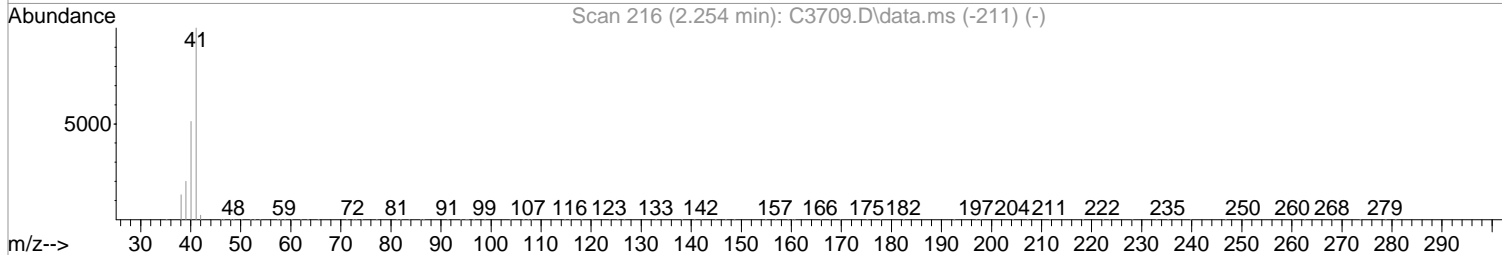
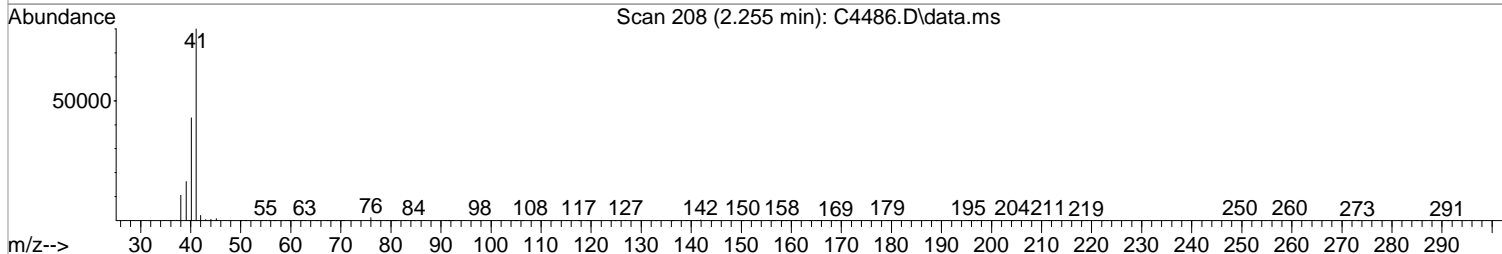
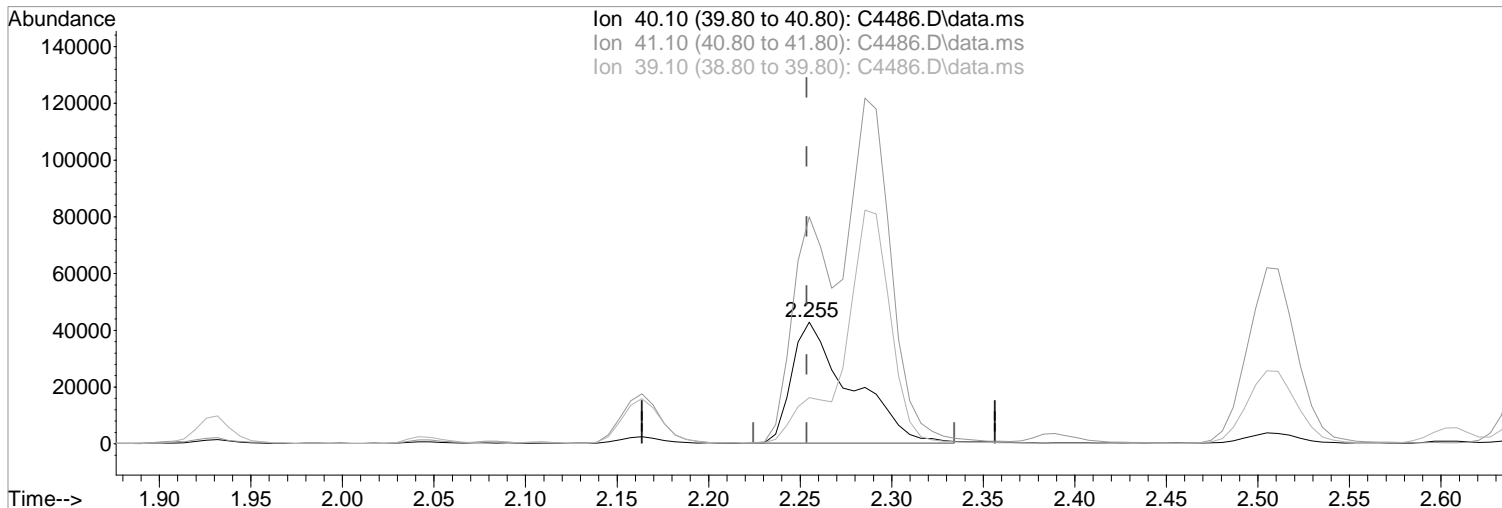
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	186.73
39.10	39.50	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4486.D  
Acq On : 23 Jan 2018 1:19 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:40:00 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:14:46 2018  
Response via : Initial Calibration



TIC: C4486.D\data.ms

(19) Acetonitrile  
2.255min (+0.001) 330.99 ug/L  
response 95334

Manual Integration:  
Before

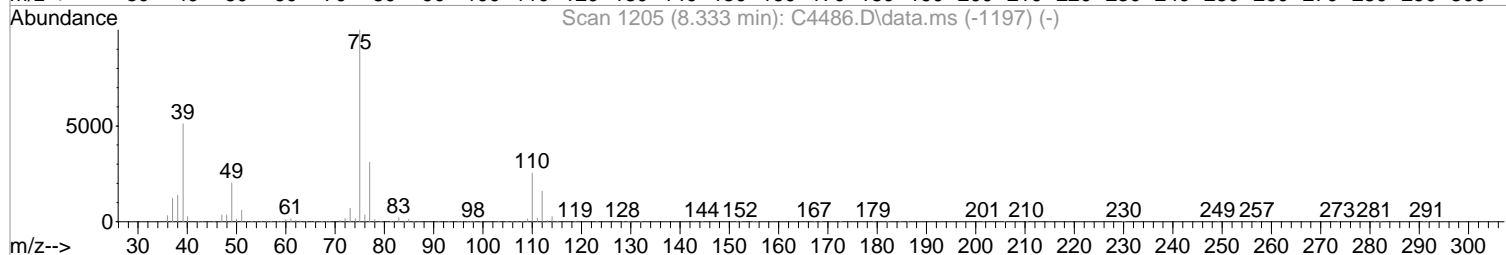
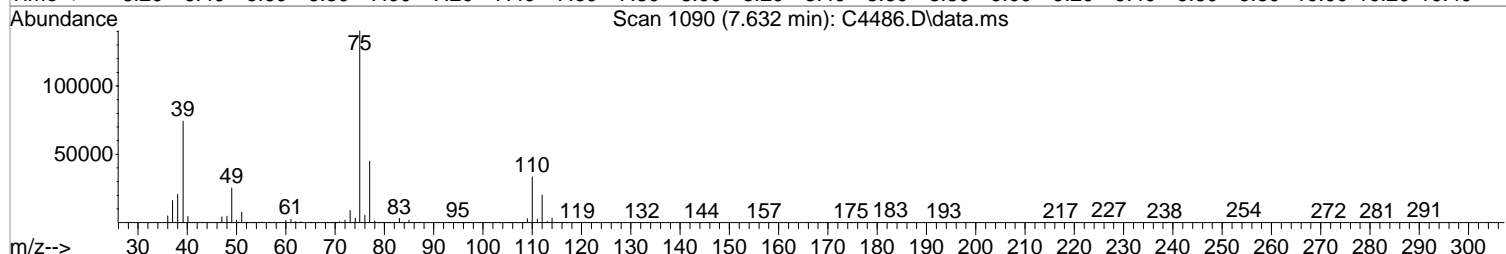
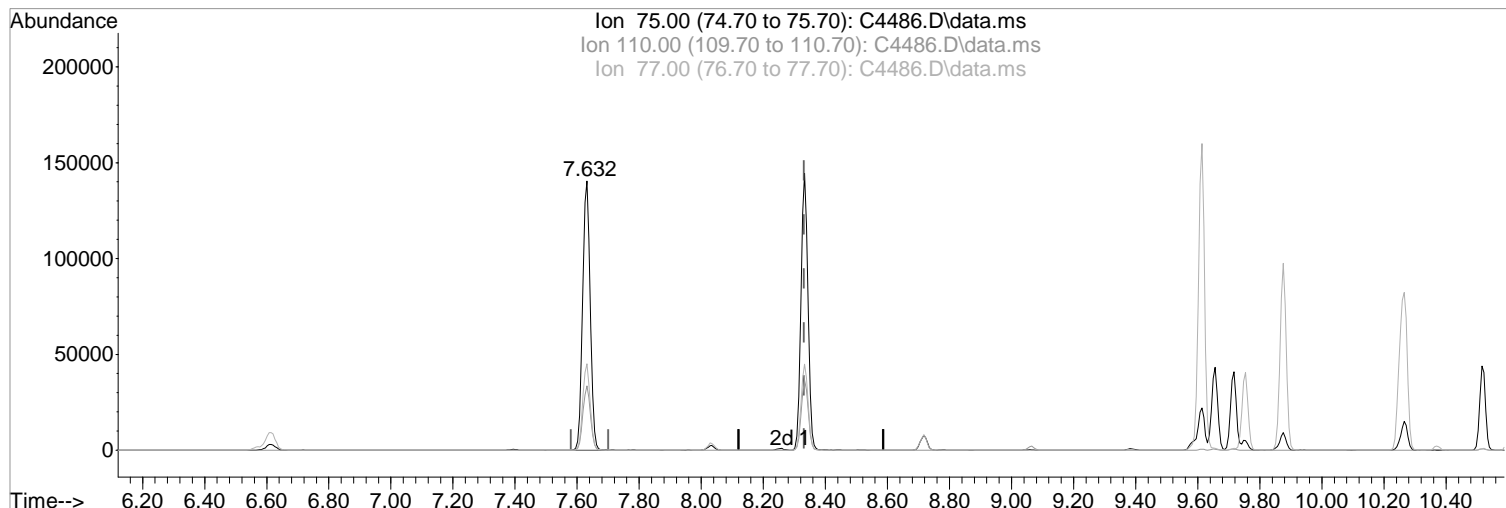
Ion	Exp%	Act%
40.10	100	100
41.10	193.90	186.73
39.10	39.50	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4486.D  
Acq On : 23 Jan 2018 1:19 pm  
Operator : F. NAEGLER  
Sample : 50 PPB STD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:48:43 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:14:46 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.699) 60.00 ug/L m  
response 236875

Manual Integration:

After

Wrong peak selected.

02/07/18

Ion	Exp%	Act%
75.00	100	100
110.00	25.40	23.92
77.00	30.20	32.12
0.00	0.00	0.00



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	256184	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	371591	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	329712	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.741	152	185896	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.535	113	122330	46.95	ug/L	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	93.90%	
47) surr1,1,2-dichloroetha...	5.126	65	149926	47.06	ug/L	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	94.12%	
64) SURR3,Toluene-d8	7.955	98	460416	47.42	ug/L	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	94.84%	
69) SURR2,BFB	10.735	95	185019	48.23	ug/L	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	96.46%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	186136	58.14	ug/L		100
3) Chloromethane	1.151	50	195881	48.32	ug/L		97
4) Vinyl Chloride	1.212	62	169091	54.79	ug/L		99
5) Bromomethane	1.408	94	93153	37.64	ug/L		99
6) Chloroethane	1.475	64	100624	52.08	ug/L		100
7) Freon 21	1.603	67	257326	53.36	ug/L		100
8) Trichlorofluoromethane	1.645	101	202454	55.15	ug/L		99
9) Diethyl Ether	1.846	59	120808	53.89	ug/L		99
10) Freon 123a	1.846	67	158567	53.98	ug/L		96
11) Freon 123	1.889	83	184828	55.77	ug/L		97
12) Acrolein	1.932	56	183011	264.80	ug/L		98
13) 1,1-Dicethene	2.005	96	120864	54.05	ug/L		99
14) Freon 113	2.011	101	119746	53.85	ug/L		96
15) Acetone	2.048	43	79630	44.21	ug/L		97
16) 2-Propanol	2.163	45	334880	1066.15	ug/L		93
17) Iodomethane	2.121	142	88996	113.95	ug/L		99
18) Carbon Disulfide	2.176	76	353960	55.34	ug/L		100
19) Acetonitrile	2.255	40	72590m	252.03	ug/L		
20) Allyl Chloride	2.292	76	59771	54.19	ug/L	#	93
21) Methyl Acetate	2.310	43	146383	48.05	ug/L		97
22) Methylene Chloride	2.389	84	133362	50.93	ug/L		99
23) TBA	2.505	59	567338	1056.27	ug/L		85
24) Acrylonitrile	2.602	53	366141	263.25	ug/L		99
25) Methyl-t-Butyl Ether	2.657	73	451205	51.23	ug/L		98
26) trans-1,2-Dichloroethene	2.645	96	129577	53.58	ug/L		99
27) 1,1-Dicethane	3.066	63	236055	52.23	ug/L		98
28) Vinyl Acetate	3.145	86	36021	66.48	ug/L		98
29) DIPE	3.182	45	453816	51.59	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.175	53	209089	53.31	ug/L		95
31) ETBE	3.639	59	451639	51.84	ug/L		100
32) 2,2-Dichloropropane	3.779	77	212111	53.87	ug/L		100
33) cis-1,2-Dichloroethene	3.785	96	149382	50.68	ug/L		98
34) 2-Butanone	3.822	43	103488	50.02	ug/L		96
35) Propionitrile	3.889	54	159156	256.04	ug/L		95
36) Bromochloromethane	4.127	130	92180	50.38	ug/L		96
37) Methacrylonitrile	4.120	67	76172	51.98	ug/L		97
38) Tetrahydrofuran	4.212	42	63534	47.64	ug/L		100
39) Chloroform	4.279	83	237927	51.10	ug/L		99
40) 1,1,1-Trichloroethane	4.553	97	218732	54.09	ug/L		96

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	447106	51.52	ug/L	97
43) Cyclohexane	4.645	41	137965	54.53	ug/L	98
45) Carbontetrachloride	4.846	117	187271	56.67	ug/L	96
46) 1,1-Dichloropropene	4.852	75	183967	51.93	ug/L	96
48) Benzene	5.224	78	520579	52.61	ug/L	98
49) 1,2-Dichloroethane	5.260	62	204742	50.98	ug/L	97
50) Iso-Butyl Alcohol	5.260	43	250926	1087.30	ug/L	99
51) n-Heptane	5.809	43	167572	54.15	ug/L	97
52) 1-Butanol	6.376	56	387168	2927.38	ug/L	97
53) Trichloroethene	6.303	130	143859	52.23	ug/L	100
54) Methylcyclohexane	6.571	55	181113	55.52	ug/L	98
55) 1,2-Diclpropane	6.614	63	140003	52.62	ug/L	100
56) Dibromomethane	6.766	93	93969	51.86	ug/L	97
57) 1,4-Dioxane	6.852	88	62453	1014.79	ug/L	99
58) Methyl Methacrylate	6.894	69	129244	52.33	ug/L	99
59) Bromodichloromethane	7.028	83	186030	55.42	ug/L	99
60) 2-Nitropropane	7.339	41	109311	112.88	ug/L	95
61) 2-Chloroethylvinyl Ether	7.492	63	62632	61.17	ug/L	97
62) cis-1,3-Dichloropropene	8.333	75	222456	56.35	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	189654	51.40	ug/L	97
65) Toluene	8.034	91	573582	52.66	ug/L	98
66) trans-1,3-Dichloropropene	8.333	75	222456	56.35	ug/L	99
67) Ethyl Methacrylate	8.510	69	225646	55.61	ug/L	96
68) 1,1,2-Trichloroethane	8.534	97	135873	52.05	ug/L	96
71) Tetrachloroethene	8.681	164	117231	52.63	ug/L	95
72) 2-Hexanone	8.876	43	146889	52.10	ug/L	96
73) 1,3-Dichloropropane	8.717	76	236004	51.88	ug/L	99
74) Dibromochloromethane	8.967	129	155700	57.02	ug/L	97
75) N-Butyl Acetate	9.058	43	303701	52.69	ug/L	97
76) 1,2-Dibromoethane	9.065	107	145352	54.00	ug/L	98
77) 3-Chlorobenzotrifluoride	9.656	180	221945	50.28	ug/L	96
78) Chlorobenzene	9.613	112	382747	52.45	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	199758	48.91	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.711	131	142892	54.91	ug/L	99
81) Ethylbenzene	9.753	106	203529	53.51	ug/L	99
82) (m+p)Xylene	9.875	106	512301	108.26	ug/L	99
83) o-Xylene	10.253	106	252957	54.97	ug/L	96
84) Styrene	10.266	104	432391	54.98	ug/L	96
85) Bromoform	10.418	173	113184	57.09	ug/L	99
86) 2-Chlorobenzotrifluoride	10.522	180	219707	50.95	ug/L	96
87) Isopropylbenzene	10.613	105	660894	54.21	ug/L	100
88) Cyclohexanone	10.662	55	742483	1061.18	ug/L	99
89) trans-1,4-Dichloro-2-B...	10.936	53	56391	52.15	ug/L	84
91) 1,1,2,2-Tetrachloroethane	10.887	83	213701	52.04	ug/L	97
92) Bromobenzene	10.851	156	171868	52.53	ug/L #	88
93) 1,2,3-Trichloropropane	10.906	110	69930	50.19	ug/L	93
94) n-Propylbenzene	10.985	91	750281	53.48	ug/L	99
95) 2-Chlorotoluene	11.040	91	443058	51.43	ug/L	99
96) 3-Chlorotoluene	11.095	91	471608	49.68	ug/L	98
97) 4-Chlorotoluene	11.137	91	526049	52.76	ug/L	100
98) 1,3,5-Trimethylbenzene	11.150	105	546092	54.18	ug/L	99
99) tert-Butylbenzene	11.424	119	481177	52.71	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	555118	53.44	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	180801	50.37	ug/L	97
102) sec-Butylbenzene	11.613	105	692717	54.28	ug/L	100
103) p-Isopropyltoluene	11.741	119	598468	54.12	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4486.D  
 Acq On : 23 Jan 2018 1:19 pm  
 Operator : F. NAEGLER  
 Sample : 50 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 23 13:41:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:14:46 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	320884	51.50	ug/L	98
105) 1,4-Dclbenz	11.765	146	325739	49.52	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	160053	48.87	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	183026	49.36	ug/L	99
108) n-Butylbenzene	12.082	91	530390	54.67	ug/L	98
109) 1,2-Dclbenz	12.070	146	320874	52.41	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	59566	54.12	ug/L	96
111) Trielution Dichlorotol...	12.832	125	865716	151.98	ug/L	98
112) 1,3,5-Trichlorobenzene	12.881	180	241893	49.27	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	631034	102.06	ug/L	94
114) 1,2,4-Tcbenzene	13.369	180	240186	51.91	ug/L	98
115) Hexachlorobt	13.515	225	106794	51.60	ug/L	97
116) Naphthalen	13.558	128	743818	53.87	ug/L	100
117) 1,2,3-Tclbenzene	13.747	180	234515	50.45	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	171456	50.35	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	157003	49.48	ug/L	99

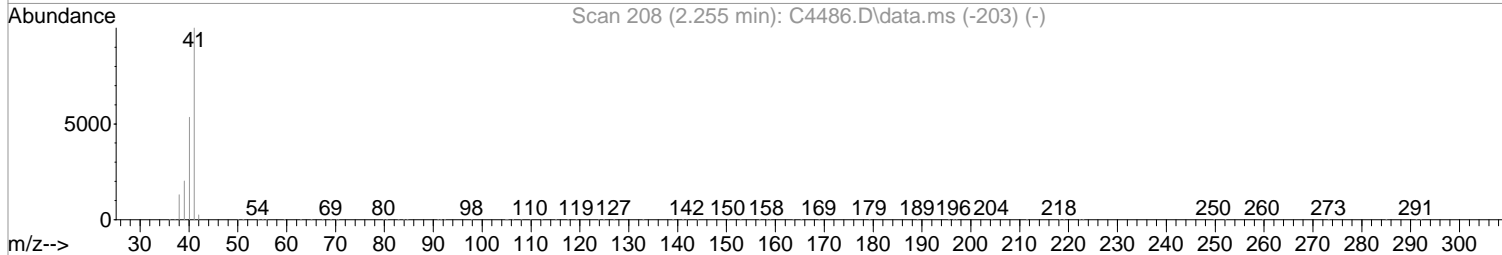
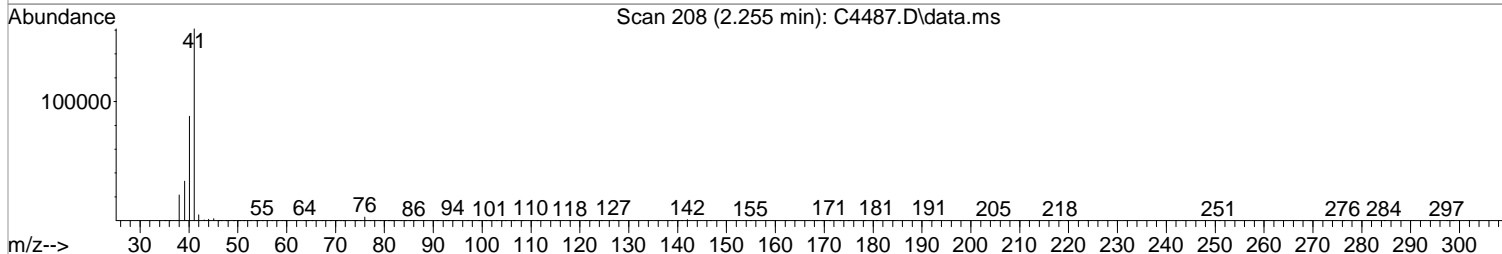
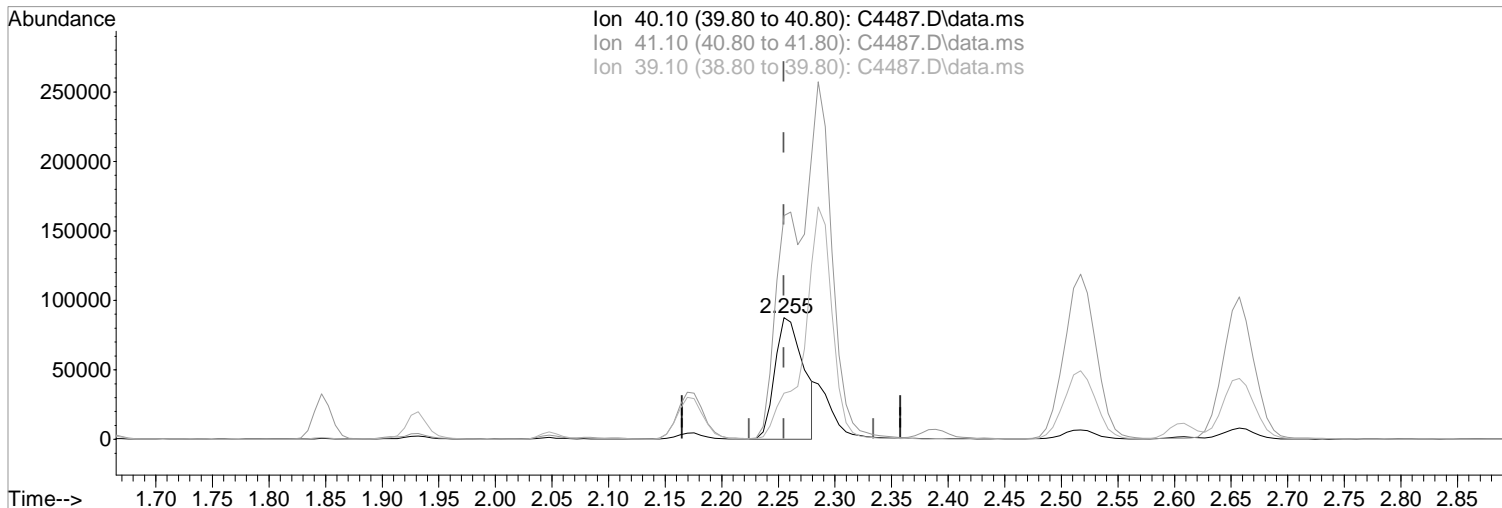
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:02:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (-0.000) 539.85 ug/L m  
response 154322

Manual Integration:

After

Poor integration.

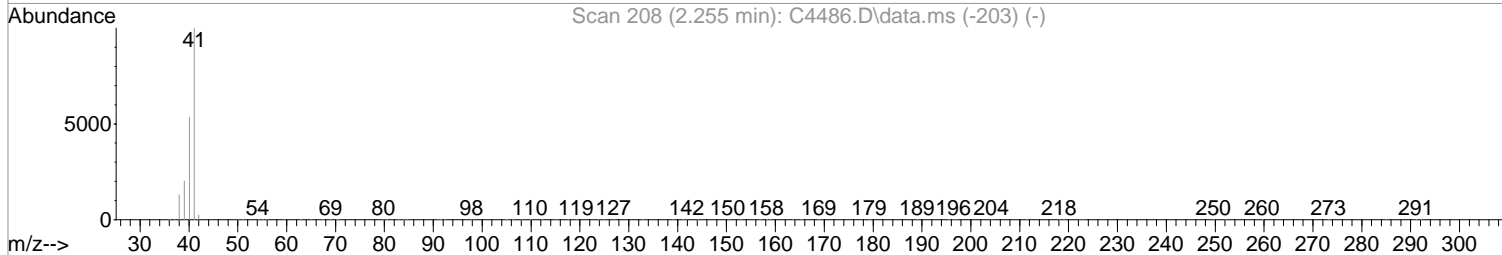
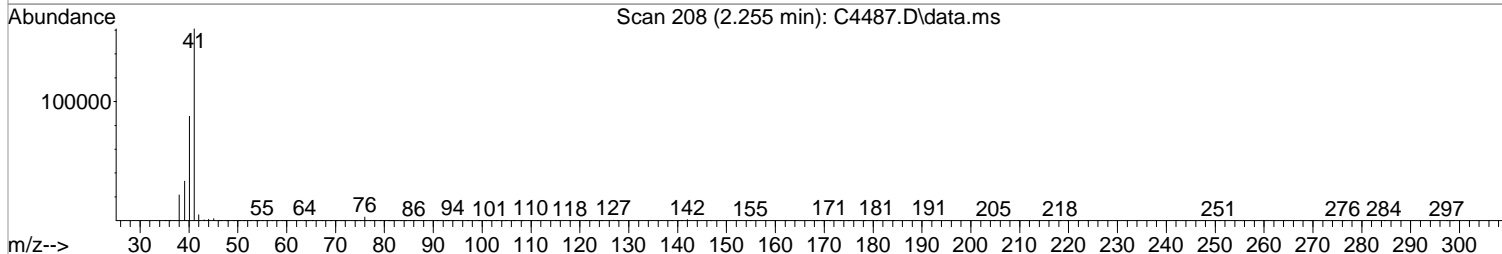
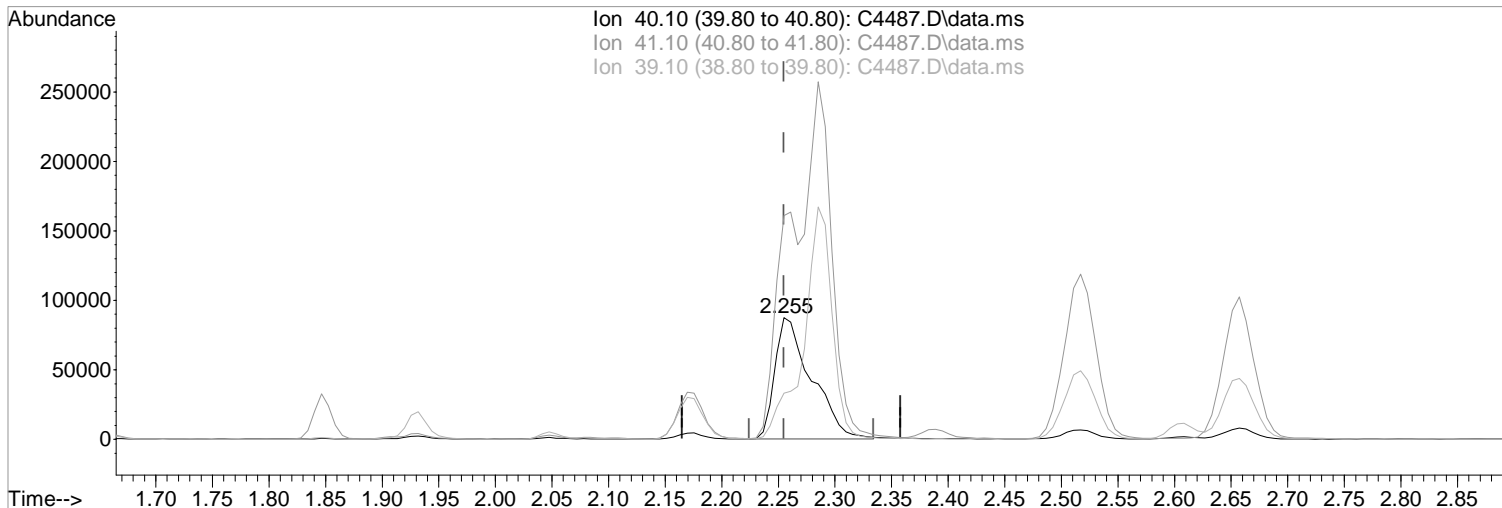
01/23/18

Ion	Exp%	Act%
40.10	100	100
41.10	186.70	183.92
39.10	38.10	37.85
0.00	0.00	0.00

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:02:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.255min (-0.000) 685.41 ug/L  
response 195932

Manual Integration:  
Before

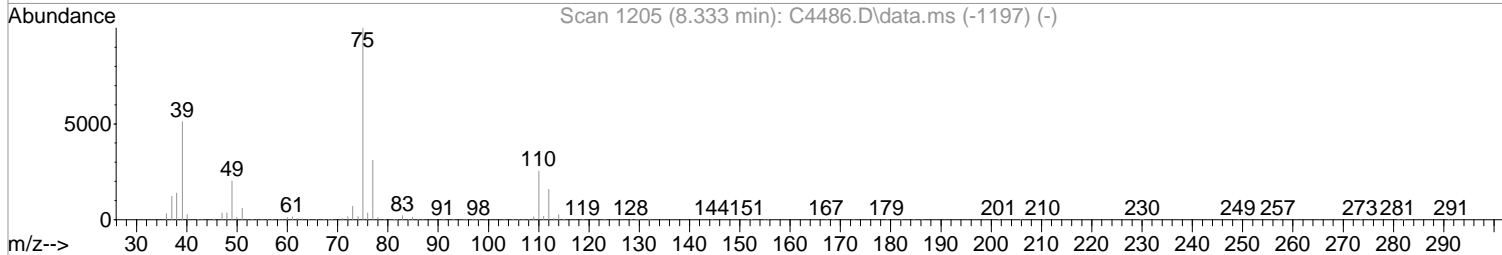
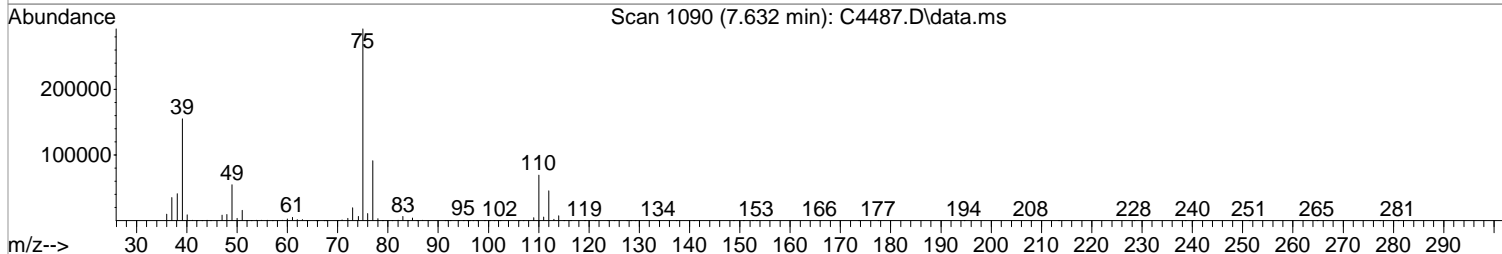
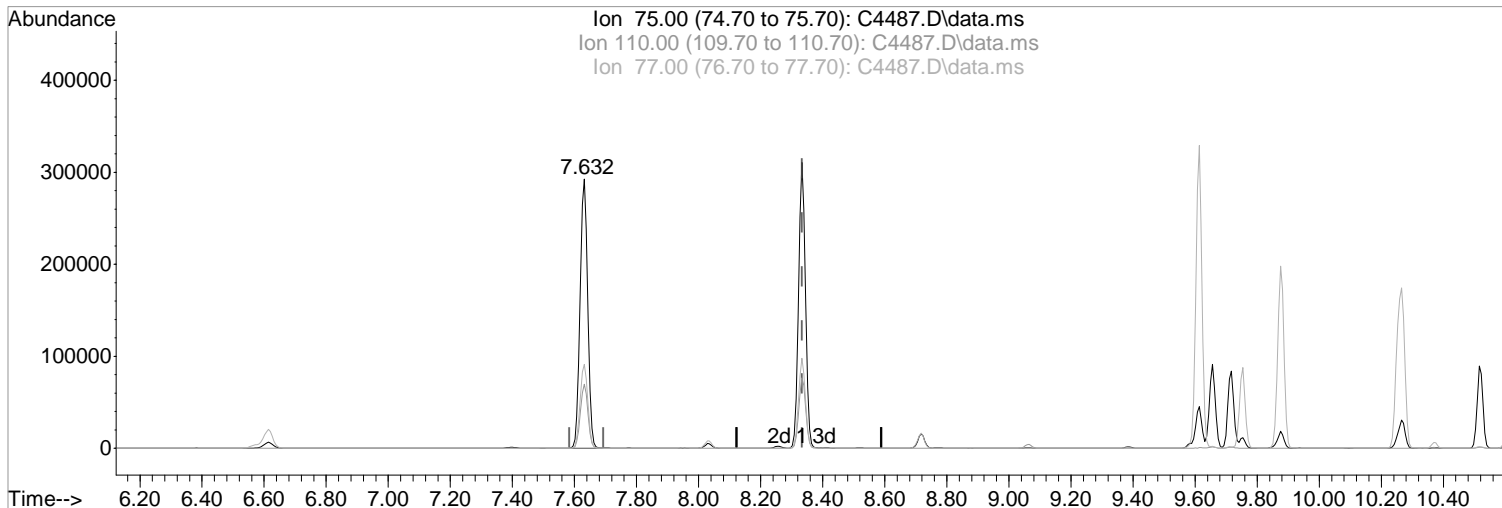
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	183.92
39.10	38.10	37.85
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4487.D  
Acq On : 23 Jan 2018 1:41 pm  
Operator : F. NAEGLER  
Sample : 100 PPB STD  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:49:41 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 13:45:36 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 121.34 ug/L m

response 493134

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	23.80
77.00	31.10	31.15
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	4.687	168	253847	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	374624	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	337607	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.747	152	191094	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
44) surr4,Dibrflmethane	4.535	113	243601	94.66	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	189.32%#		
47) surr1,1,2-dichloroetha...	5.120	65	294273	93.46	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	186.92%#		
64) SURR3,Toluene-d8	7.955	98	913384	94.94	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	189.88%#		
69) SURR2,BFB	10.735	95	370980	97.07	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	194.14%#		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.042	85	381550	117.10	ug/L	98
3) Chloromethane	1.151	50	391116	97.91	ug/L	99
4) Vinyl Chloride	1.212	62	345489	111.21	ug/L	100
5) Bromomethane	1.401	94	147492	62.73	ug/L	98
6) Chloroethane	1.468	64	197006	102.19	ug/L	100
7) Freon 21	1.603	67	516454	106.88	ug/L	99
8) Trichlorofluoromethane	1.639	101	385333	104.15	ug/L	99
9) Diethyl Ether	1.846	59	248357	110.38	ug/L	98
10) Freon 123a	1.846	67	320371	108.63	ug/L	100
11) Freon 123	1.889	83	375731	112.26	ug/L	98
12) Acrolein	1.932	56	375999	543.68	ug/L	98
13) 1,1-Dicethene	2.005	96	252387	112.39	ug/L	95
14) Freon 113	2.011	101	244396	109.52	ug/L	99
15) Acetone	2.048	43	159640	92.12	ug/L	97
16) 2-Propanol	2.176	45	698293	2219.14	ug/L	99
17) Iodomethane	2.115	142	260619	268.17	ug/L	100
18) Carbon Disulfide	2.169	76	710169	110.09	ug/L	99
19) Acetonitrile	2.255	40	154322m	539.85	ug/L	
20) Allyl Chloride	2.285	76	117274	105.82	ug/L	# 88
21) Methyl Acetate	2.310	43	301352	100.48	ug/L	99
22) Methylene Chloride	2.389	84	276975	106.42	ug/L	99
23) TBA	2.517	59	1154973	2149.97	ug/L	98
24) Acrylonitrile	2.608	53	760244	546.81	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	918288	104.80	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	267416	110.27	ug/L	98
27) 1,1-Dicethane	3.066	63	491020	108.84	ug/L	99
28) Vinyl Acetate	3.145	86	74365	131.29	ug/L	# 89
29) DIPE	3.188	45	928764	105.99	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.175	53	409281	104.17	ug/L	99
31) ETBE	3.639	59	923840	106.36	ug/L	99
32) 2,2-Dichloropropane	3.779	77	432354	109.41	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	309434	105.71	ug/L	99
34) 2-Butanone	3.828	43	211432	103.12	ug/L	98
35) Propionitrile	3.895	54	324414	524.58	ug/L	98
36) Bromochloromethane	4.126	130	183617	101.15	ug/L	98
37) Methacrylonitrile	4.126	67	155065	106.10	ug/L	97
38) Tetrahydrofuran	4.212	42	128563	98.22	ug/L	98
39) Chloroform	4.279	83	492846	106.43	ug/L	99
40) 1,1,1-Trichloroethane	4.553	97	448461	110.41	ug/L	99



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	916811	106.08	ug/L	99
43) Cyclohexane	4.645	41	274500	105.71	ug/L	96
45) Carbontetrachloride	4.840	117	392533	115.27	ug/L	98
46) 1,1-Dichloropropene	4.852	75	382605	106.45	ug/L	99
48) Benzene	5.218	78	1076006	106.93	ug/L	99
49) 1,2-Dichloroethane	5.260	62	412943	101.66	ug/L	99
50) Iso-Butyl Alcohol	5.279	43	513558	2175.64	ug/L	98
51) n-Heptane	5.803	43	351606	110.86	ug/L	97
52) 1-Butanol	6.388	56	833013	6074.36	ug/L	100
53) Trichloroethene	6.303	130	301833	107.89	ug/L	97
54) Methylcyclohexane	6.571	55	365008	108.98	ug/L	99
55) 1,2-Diclpropane	6.614	63	290251	107.27	ug/L	98
56) Dibromomethane	6.766	93	194652	105.89	ug/L	99
57) 1,4-Dioxane	6.851	88	128446	2064.09	ug/L	98
58) Methyl Methacrylate	6.894	69	265931	105.97	ug/L	97
59) Bromodichloromethane	7.028	83	386472	112.17	ug/L	99
60) 2-Nitropropane	7.339	41	228265	228.90	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	135241	126.32	ug/L	97
62) cis-1,3-Dichloropropene	8.333	75	470033	115.65	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	392661	105.07	ug/L	99
65) Toluene	8.034	91	1193561	107.74	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	470033	115.65	ug/L	99
67) Ethyl Methacrylate	8.510	69	466017	111.83	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	280131	105.72	ug/L	99
71) Tetrachloroethene	8.680	164	243517	105.83	ug/L	99
72) 2-Hexanone	8.875	43	302497	104.05	ug/L	100
73) 1,3-Dichloropropane	8.717	76	487469	104.00	ug/L	97
74) Dibromochloromethane	8.967	129	326950	114.27	ug/L	99
75) N-Butyl Acetate	9.058	43	631759	106.09	ug/L	99
76) 1,2-Dibromoethane	9.064	107	305674	109.45	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	459931	101.66	ug/L	99
78) Chlorobenzene	9.613	112	800639	106.29	ug/L	99
79) 4-Chlorobenzotrifluoride	9.717	180	417146	100.12	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	298346	110.16	ug/L	99
81) Ethylbenzene	9.753	106	426899	108.35	ug/L	98
82) (m+p)Xylene	9.875	106	1063495	216.50	ug/L	99
83) o-Xylene	10.253	106	525562	109.72	ug/L	99
84) Styrene	10.272	104	907848	110.90	ug/L	95
85) Bromoform	10.418	173	243714	117.28	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	453678	102.43	ug/L	99
87) Isopropylbenzene	10.613	105	1385380	109.45	ug/L	99
88) Cyclohexanone	10.668	55	1463292	2021.85	ug/L	98
89) trans-1,4-Dichloro-2-B...	10.936	53	115330	103.42	ug/L	99
91) 1,1,2,2-Tetrachloroethane	10.887	83	439758	103.47	ug/L	100
92) Bromobenzene	10.857	156	353755	104.31	ug/L	90
93) 1,2,3-Trichloropropane	10.912	110	142377	99.34	ug/L	95
94) n-Propylbenzene	10.985	91	1572497	107.79	ug/L	99
95) 2-Chlorotoluene	11.040	91	932802	104.83	ug/L	100
96) 3-Chlorotoluene	11.095	91	985828	101.12	ug/L	99
97) 4-Chlorotoluene	11.137	91	1110409	107.35	ug/L	99
98) 1,3,5-Trimethylbenzene	11.149	105	1148473	109.33	ug/L	100
99) tert-Butylbenzene	11.424	119	1006827	106.33	ug/L	99
100) 1,2,4-Trimethylbenzene	11.466	105	1157763	107.19	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	377938	102.30	ug/L	99
102) sec-Butylbenzene	11.613	105	1466574	110.22	ug/L	99
103) p-Isopropyltoluene	11.747	119	1261217	109.44	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration

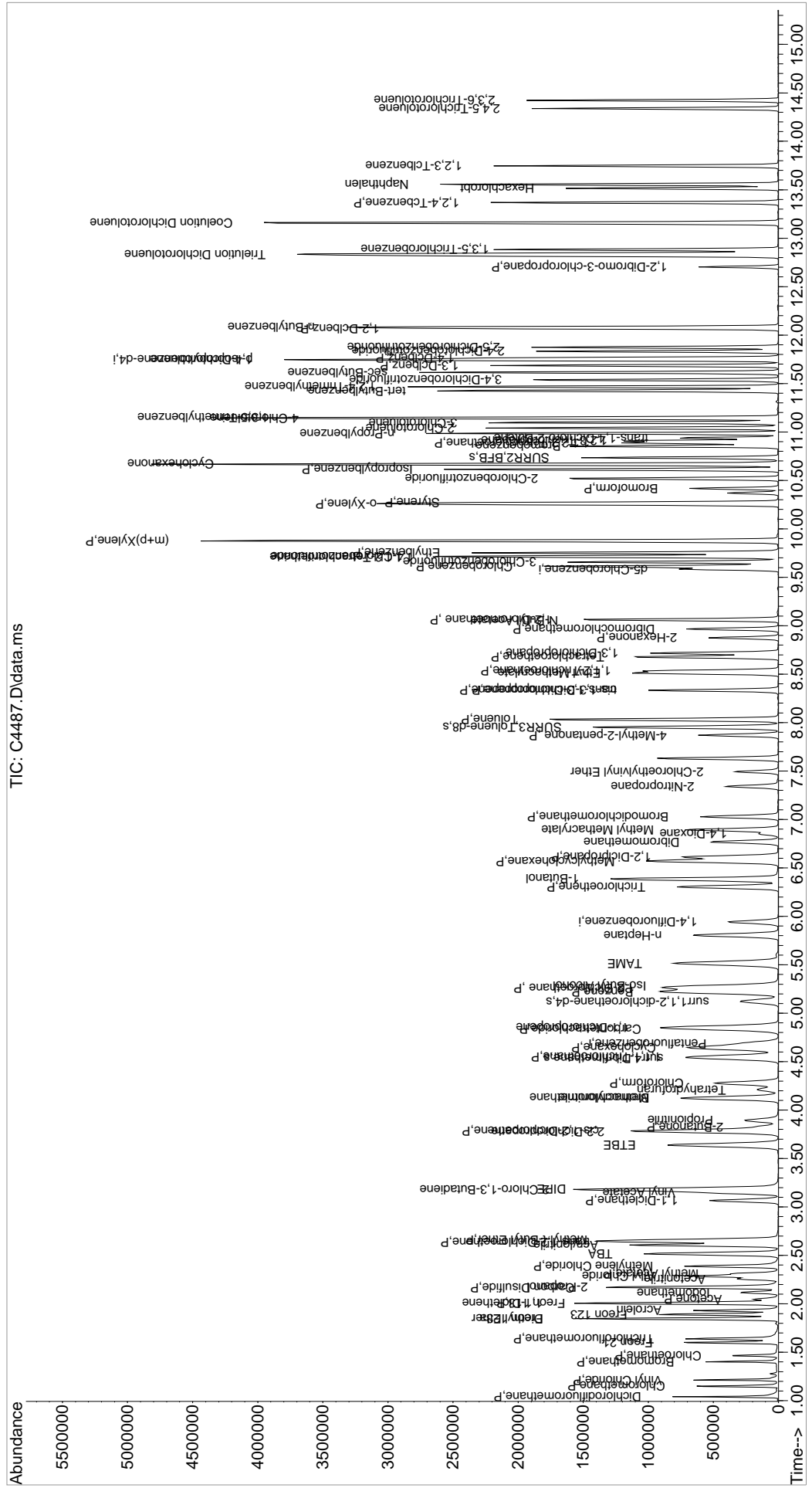
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	669977	104.09	ug/L	100
105) 1,4-Dclbenz	11.765	146	677251	100.32	ug/L	100
106) 2,4-Dichlorobenzotrifl...	11.832	214	346676	103.37	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	379145	99.68	ug/L	97
108) n-Butylbenzene	12.082	91	1134941	112.05	ug/L	100
109) 1,2-Dclbenz	12.070	146	664540	104.74	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	123164	107.38	ug/L	97
111) Trielution Dichlorotol...	12.832	125	1834385	312.58	ug/L	99
112) 1,3,5-Trichlorobenzene	12.887	180	511324	101.56	ug/L	99
113) Coelution Dichlorotoluene	13.161	125	1340346	210.16	ug/L	96
114) 1,2,4-Tcbenzene	13.369	180	496002	103.62	ug/L	99
115) Hexachlorobt	13.515	225	228035	106.62	ug/L	99
116) Naphthalen	13.557	128	1535871	106.82	ug/L	100
117) 1,2,3-Tclbenzene	13.746	180	489692	102.33	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	379578	108.32	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	340842	104.67	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
 Data File : C4487.D  
 Acq On : 23 Jan 2018 1:41 pm  
 Operator : F. NAEGLER  
 Sample : 100 PPB STD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

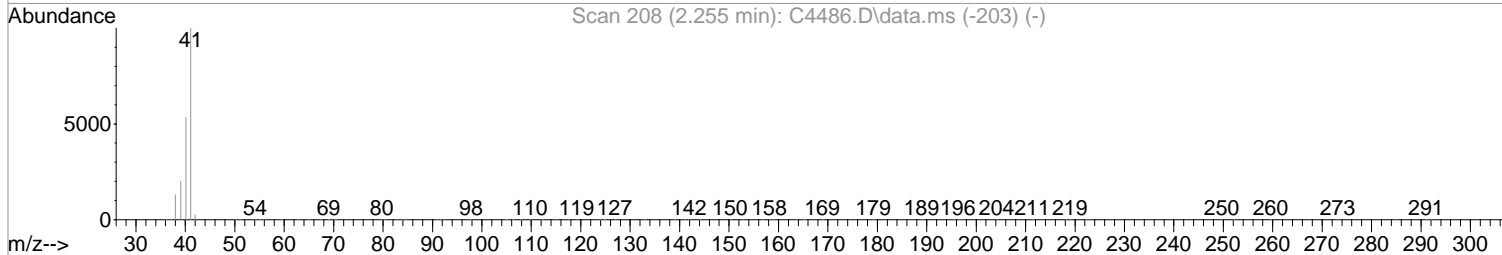
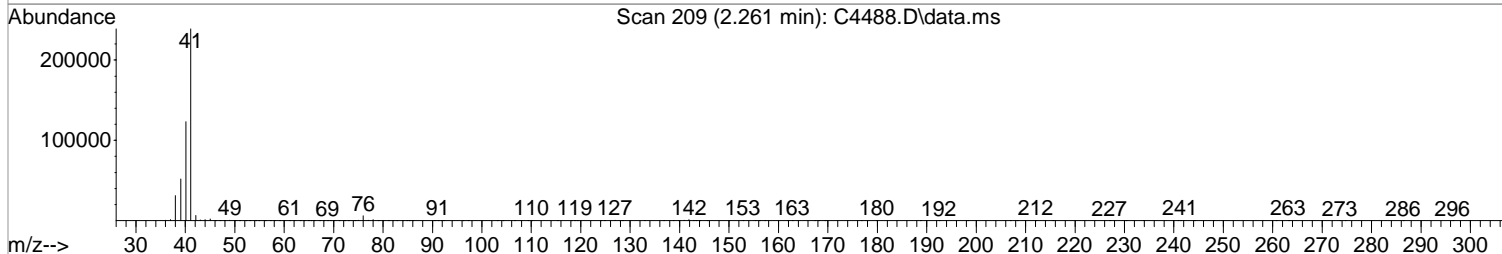
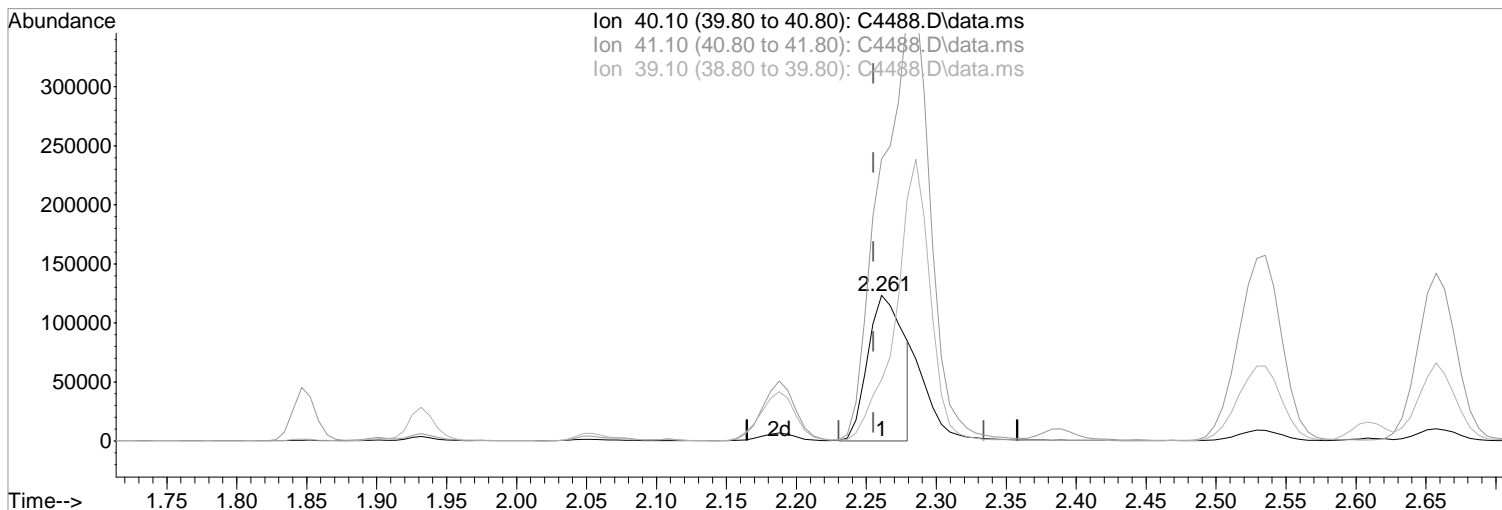
Inst : MSVOA14

Quant Time: Jan 23 14:03:27 2018  
 Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 13:45:36 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1  
Inst : MSVOA14

Quant Time: Jan 23 14:20:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.006) 772.09 ug/L m  
response 218012

Manual Integration:  
After  
Poor integration.

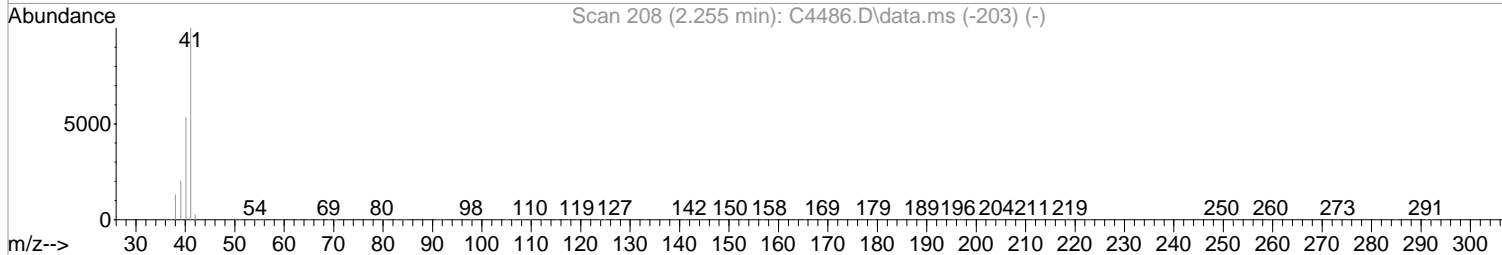
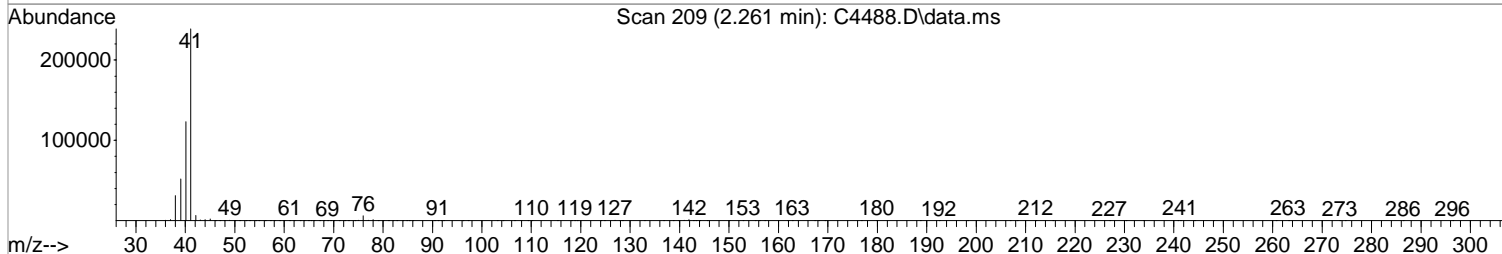
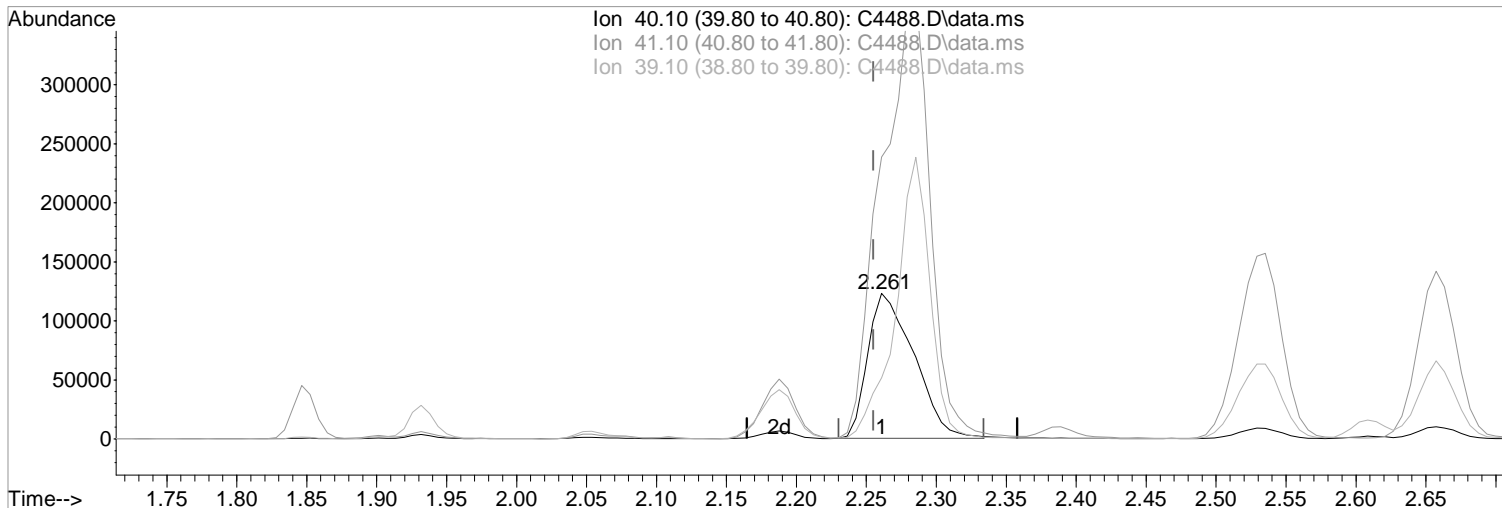
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	193.71
39.10	38.10	42.10
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:20:24 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.006) 997.20 ug/L  
response 281575

Manual Integration:  
Before

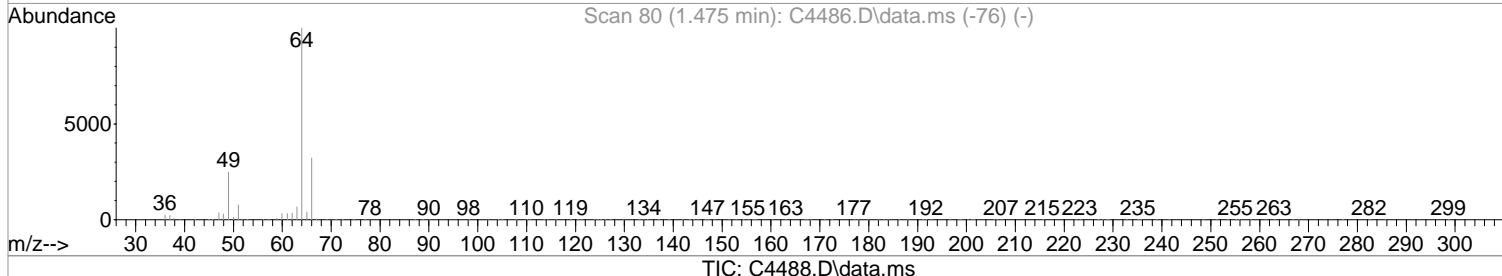
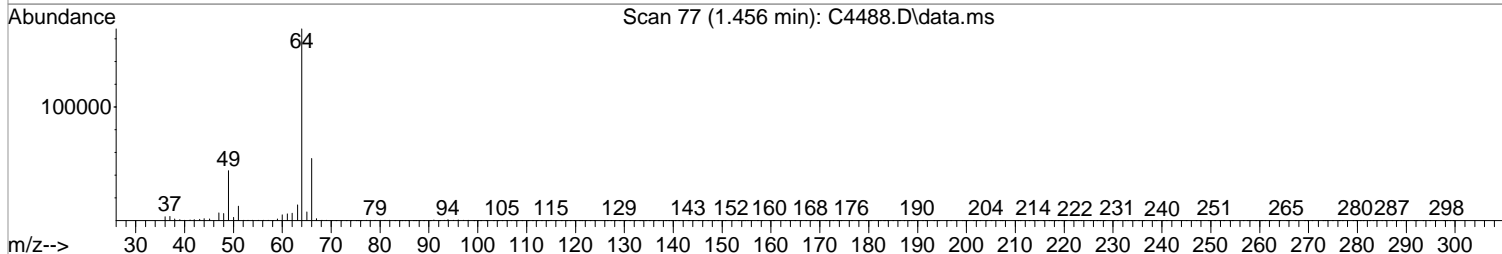
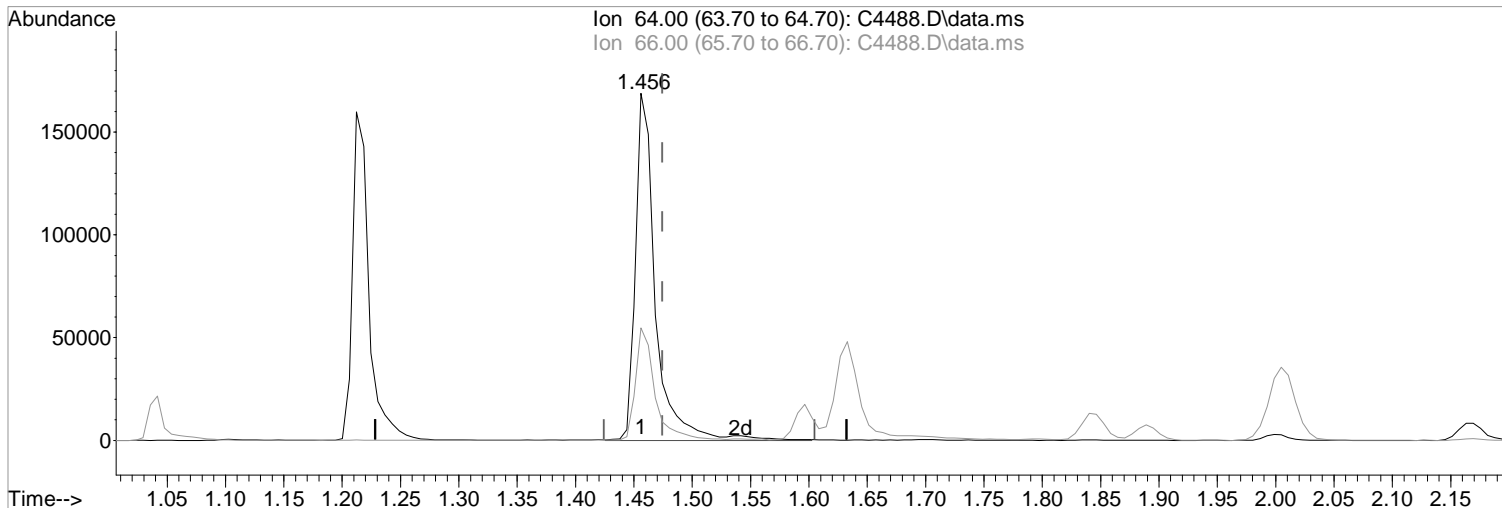
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	193.71
39.10	38.10	42.10
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:24:05 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(6) Chloroethane (P)

1.456min (-0.018) 106.60 ug/L m

response 200962

Ion	Exp%	Act%
64.00	100	100
66.00	32.20	32.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

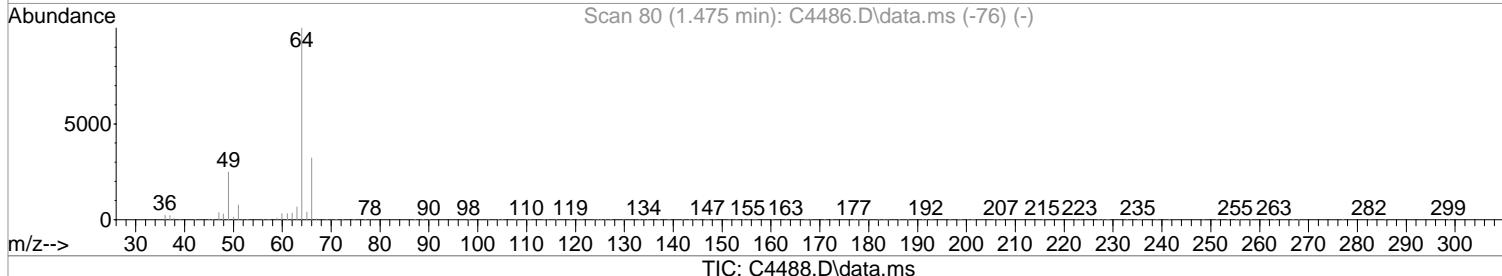
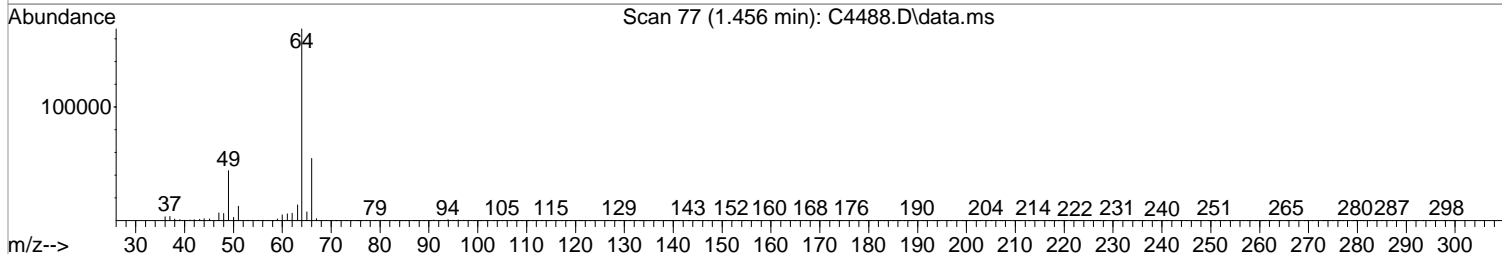
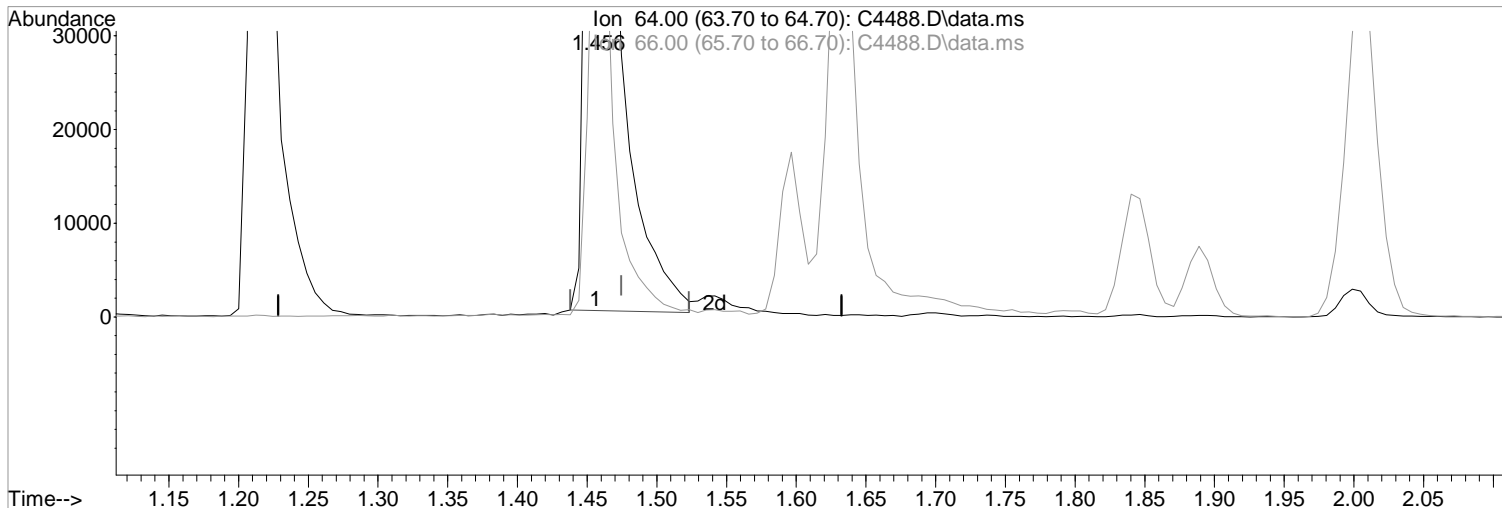
Poor integration.

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:24:05 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(6) Chloroethane (P)

1.456min (-0.018) 101.96 ug/L

response 192220

Ion	Exp%	Act%
64.00	100	100
66.00	32.20	32.40
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

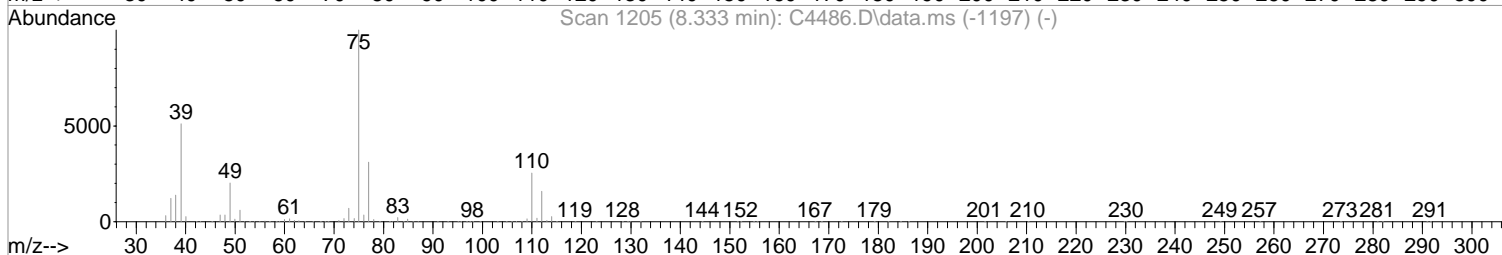
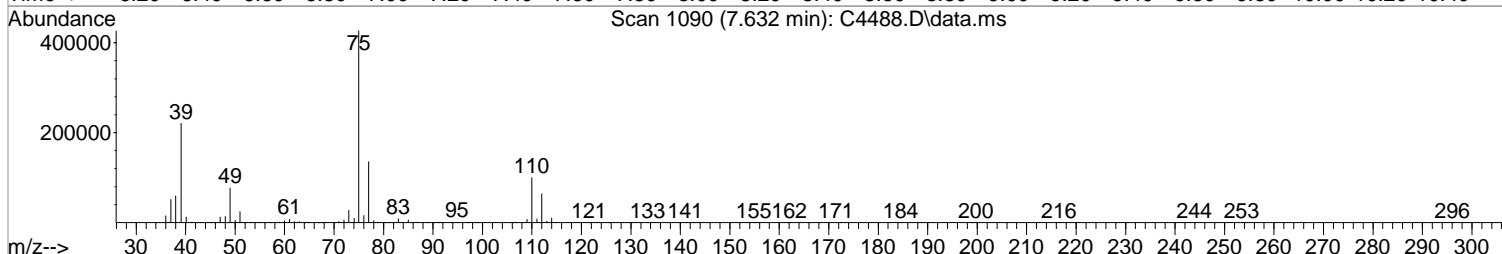
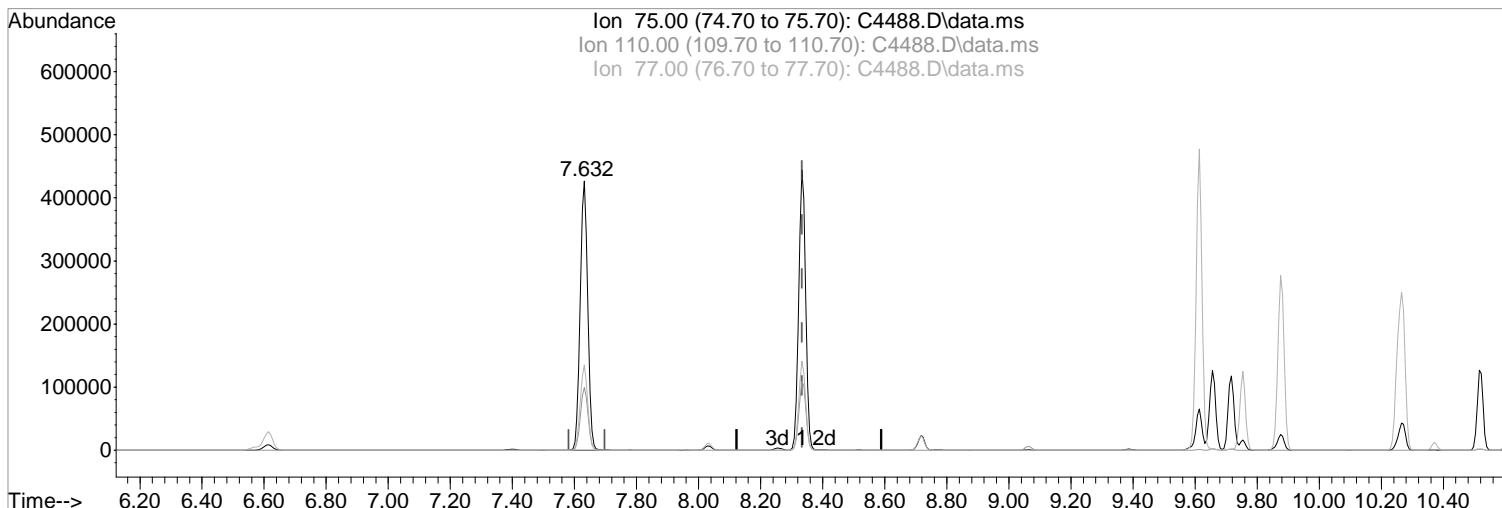
Before

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:50:15 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 175.00 ug/L m

response 711021

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	23.35
77.00	31.10	31.68
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.687	168	247458	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	366316	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	330644	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.747	152	190029	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	466223	187.79	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	375.58%#		
47) surr1,1,2-dichloroetha...	5.120	65	560459	185.06	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	370.12%#		
64) SURR3,Toluene-d8	7.955	98	1753010	188.74	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	377.48%#		
69) SURR2,BFB	10.735	95	728535	196.40	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	392.80%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	526559	161.82	ug/L	98
3) Chloromethane	1.145	50	547308	140.97	ug/L	99
4) Vinyl Chloride	1.212	62	481163	156.38	ug/L	99
5) Bromomethane	1.401	94	201359	92.80	ug/L	98
6) Chloroethane	1.456	64	200962m	106.60	ug/L	
7) Freon 21	1.596	67	731402	153.76	ug/L	100
8) Trichlorofluoromethane	1.633	101	482064	132.87	ug/L	99
9) Diethyl Ether	1.846	59	353667	158.89	ug/L	98
10) Freon 123a	1.840	67	461748	158.65	ug/L	94
11) Freon 123	1.889	83	533978	160.84	ug/L	98
12) Acrolein	1.932	56	552289	809.11	ug/L	97
13) 1,1-Diclcethene	1.999	96	347697	156.07	ug/L	98
14) Freon 113	2.005	101	331329	150.27	ug/L	100
15) Acetone	2.054	43	235003	141.33	ug/L	98
16) 2-Propanol	2.188	45	1046722	3359.72	ug/L	98
17) Iodomethane	2.115	142	418674	345.18	ug/L	99
18) Carbon Disulfide	2.169	76	1061064	166.33	ug/L	99
19) Acetonitrile	2.261	40	218012m	772.09	ug/L	
20) Allyl Chloride	2.285	76	164140	150.68	ug/L	# 84
21) Methyl Acetate	2.316	43	434462	148.49	ug/L	98
22) Methylene Chloride	2.389	84	389599	152.16	ug/L	99
23) TBA	2.535	59	1691938	3196.60	ug/L	99
24) Acrylonitrile	2.608	53	1109069	807.51	ug/L	98
25) Methyl-t-Butyl Ether	2.657	73	1310463	152.37	ug/L	99
26) trans-1,2-Dichloroethene	2.639	96	372087	155.12	ug/L	99
27) 1,1-Diclcethane	3.066	63	681621	153.05	ug/L	99
28) Vinyl Acetate	3.145	86	111377	193.09	ug/L	# 87
29) DIPE	3.188	45	1327738	154.12	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.175	53	606912	157.52	ug/L	97
31) ETBE	3.639	59	1323686	154.92	ug/L	99
32) 2,2-Dichloropropane	3.779	77	611976	156.76	ug/L	99
33) cis-1,2-Dichloroethene	3.785	96	431345	149.94	ug/L	99
34) 2-Butanone	3.828	43	312295	155.28	ug/L	100
35) Propionitrile	3.901	54	481043	792.37	ug/L	99
36) Bromochloromethane	4.120	130	257412	145.22	ug/L	96
37) Methacrylonitrile	4.126	67	225777	157.10	ug/L	97
38) Tetrahydrofuran	4.212	42	187446	147.34	ug/L	97
39) Chloroform	4.279	83	681487	149.60	ug/L	99
40) 1,1,1-Trichloroethane	4.547	97	623881	155.26	ug/L	98

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1326438	156.09	ug/L	99
43) Cyclohexane	4.638	41	394576	153.93	ug/L	97
45) Carbontetrachloride	4.840	117	545688	160.38	ug/L	99
46) 1,1-Dichloropropene	4.852	75	532669	150.18	ug/L	98
48) Benzene	5.218	78	1503951	151.35	ug/L	98
49) 1,2-Dichloroethane	5.260	62	586597	147.34	ug/L	99
50) Iso-Butyl Alcohol	5.291	43	760547	3254.24	ug/L	98
51) n-Heptane	5.803	43	502879	159.27	ug/L	99
52) 1-Butanol	6.400	56	1234627	8932.92	ug/L	99
53) Trichloroethene	6.303	130	416631	150.61	ug/L	99
54) Methylcyclohexane	6.571	55	526476	158.72	ug/L	97
55) 1,2-Diclpropane	6.614	63	410461	153.54	ug/L	98
56) Dibromomethane	6.766	93	278824	153.83	ug/L	97
57) 1,4-Dioxane	6.858	88	189269	3093.96	ug/L	99
58) Methyl Methacrylate	6.894	69	388792	157.11	ug/L	97
59) Bromodichloromethane	7.028	83	550383	160.58	ug/L	99
60) 2-Nitropropane	7.345	41	334762	336.36	ug/L	98
61) 2-Chloroethylvinyl Ether	7.492	63	207488	191.01	ug/L	99
62) cis-1,3-Dichloropropene	8.333	75	680740	167.55	ug/L	99
63) 4-Methyl-2-pentanone	7.870	43	580006	157.58	ug/L	98
65) Toluene	8.034	91	1669856	152.46	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	680740	167.55	ug/L	99
67) Ethyl Methacrylate	8.510	69	683237	164.89	ug/L	100
68) 1,1,2-Trichloroethane	8.534	97	404386	154.81	ug/L	98
71) Tetrachloroethene	8.680	164	339480	149.40	ug/L	98
72) 2-Hexanone	8.875	43	453627	158.40	ug/L	99
73) 1,3-Dichloropropane	8.717	76	706782	153.09	ug/L	99
74) Dibromochloromethane	8.967	129	478018	167.17	ug/L	99
75) N-Butyl Acetate	9.064	43	928871	157.90	ug/L	99
76) 1,2-Dibromoethane	9.064	107	439888	158.68	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	659217	148.43	ug/L	100
78) Chlorobenzene	9.613	112	1137379	152.80	ug/L	100
79) 4-Chlorobenzotrifluoride	9.717	180	594070	145.56	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	430998	160.17	ug/L	99
81) Ethylbenzene	9.753	106	602888	154.40	ug/L	98
82) (m+p)Xylene	9.875	106	1508708	309.95	ug/L	99
83) o-Xylene	10.253	106	747398	157.14	ug/L	97
84) Styrene	10.272	104	1307857	160.62	ug/L	94
85) Bromoform	10.418	173	362594	173.87	ug/L	99
86) 2-Chlorobenzotrifluoride	10.521	180	654083	150.27	ug/L	99
87) Isopropylbenzene	10.613	105	1969309	156.74	ug/L	99
88) Cyclohexanone	10.668	55	2140534	3015.19	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.942	53	175407	159.82	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.887	83	648057	152.58	ug/L	99
92) Bromobenzene	10.857	156	511803	150.83	ug/L	92
93) 1,2,3-Trichloropropane	10.912	110	210912	148.13	ug/L #	89
94) n-Propylbenzene	10.985	91	2255744	153.78	ug/L	98
95) 2-Chlorotoluene	11.040	91	1347048	151.19	ug/L	99
96) 3-Chlorotoluene	11.101	91	1441443	148.45	ug/L	98
97) 4-Chlorotoluene	11.143	91	1614150	155.30	ug/L	99
98) 1,3,5-Trimethylbenzene	11.149	105	1647582	155.64	ug/L	100
99) tert-Butylbenzene	11.424	119	1438041	151.35	ug/L	99
100) 1,2,4-Trimethylbenzene	11.466	105	1678688	154.70	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.540	214	552782	149.97	ug/L	99
102) sec-Butylbenzene	11.613	105	2117461	157.72	ug/L	100
103) p-Isopropyltoluene	11.747	119	1824786	157.12	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4488.D  
 Acq On : 23 Jan 2018 2:03 pm  
 Operator : F. NAEGLER  
 Sample : 150 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 23 16:12:21 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:05:15 2018  
 Response via : Initial Calibration

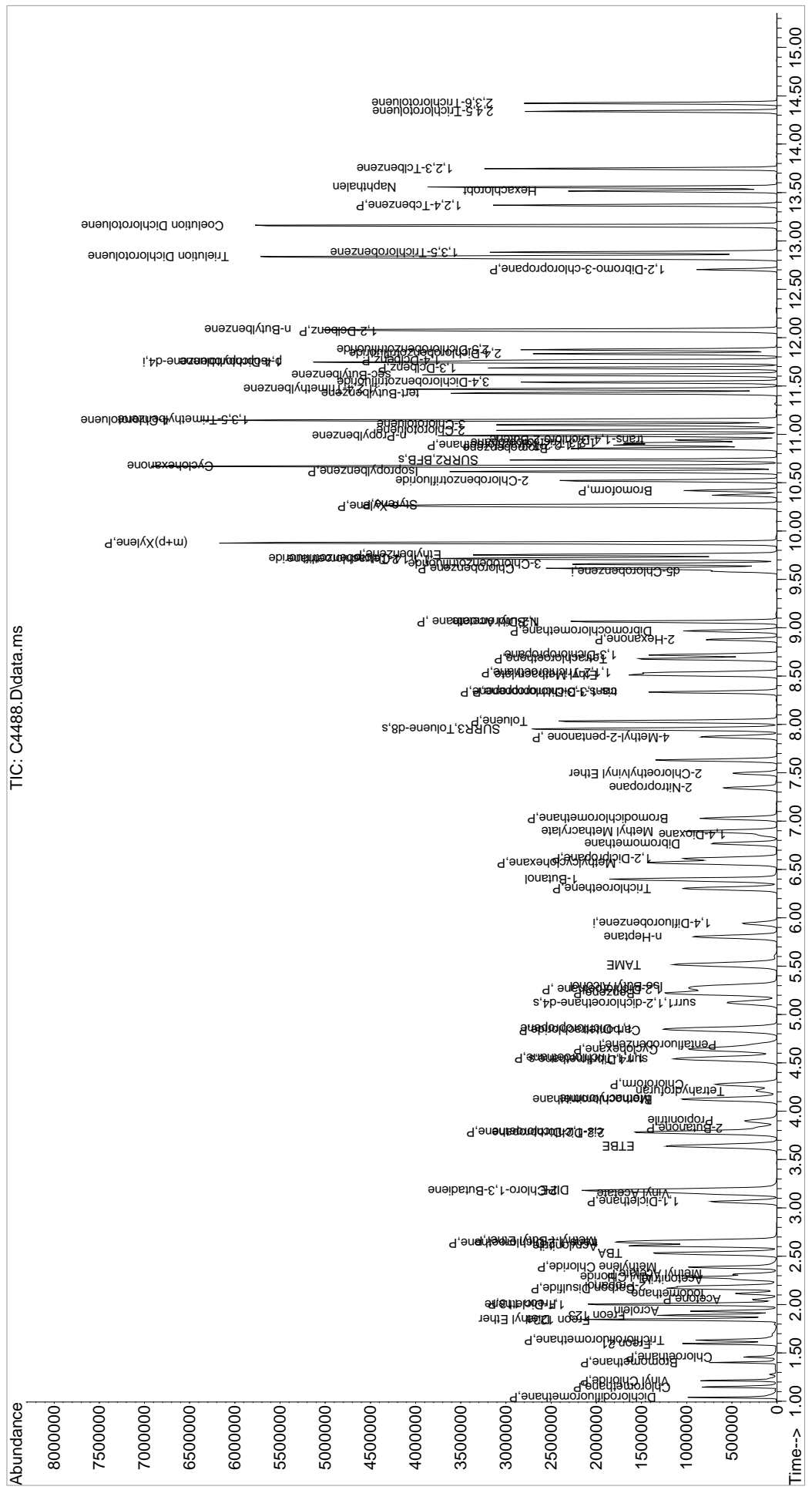
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	977070	151.76	ug/L	99
105) 1,4-Dclbenz	11.765	146	995028	148.15	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	506845	151.24	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	562715	148.83	ug/L	98
108) n-Butylbenzene	12.082	91	1665729	162.58	ug/L	99
109) 1,2-Dclbenz	12.070	146	980947	154.44	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	183537	159.23	ug/L	99
111) Trielution Dichlorotol...	12.838	125	2708743	461.40	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	753701	150.21	ug/L	99
113) Coelution Dichlorotoluene	13.161	125	1969467	308.29	ug/L	96
114) 1,2,4-Tcbenzene	13.368	180	726688	151.88	ug/L	100
115) Hexachlorobt	13.515	225	340552	158.62	ug/L	98
116) Naphthalen	13.557	128	2243284	155.39	ug/L	100
117) 1,2,3-Tclbenzene	13.746	180	716252	150.01	ug/L	99
118) 2,4,5-Trichlorotoluene	14.338	159	562491	159.52	ug/L	100
119) 2,3,6-Trichlorotoluene	14.423	159	507845	155.79	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
Data File : C4488.D  
Acq On : 23 Jan 2018 2:03 pm  
Operator : F. NAEGLER  
Sample : 150 PPB STD  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA14

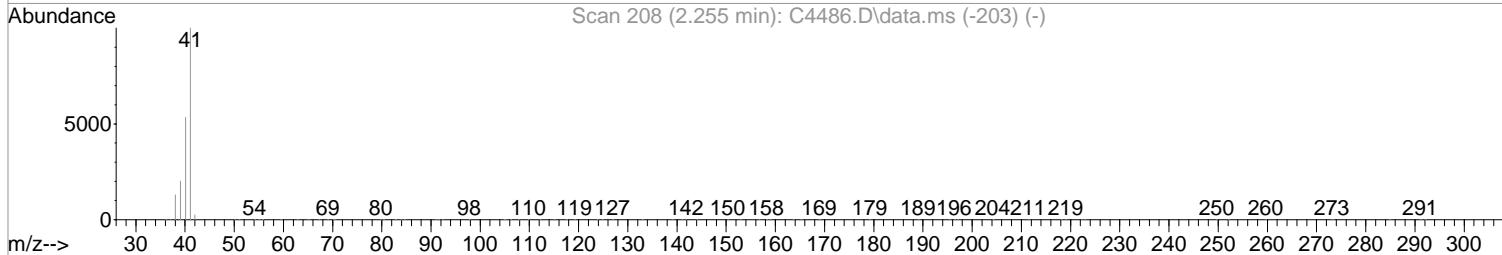
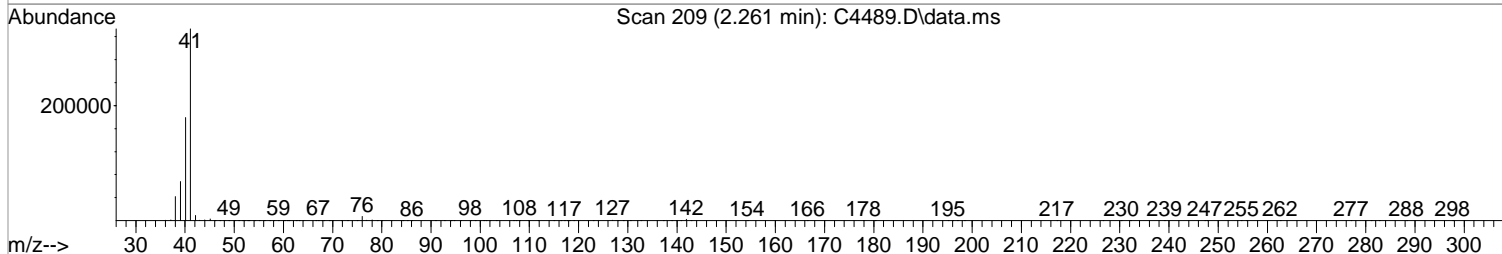
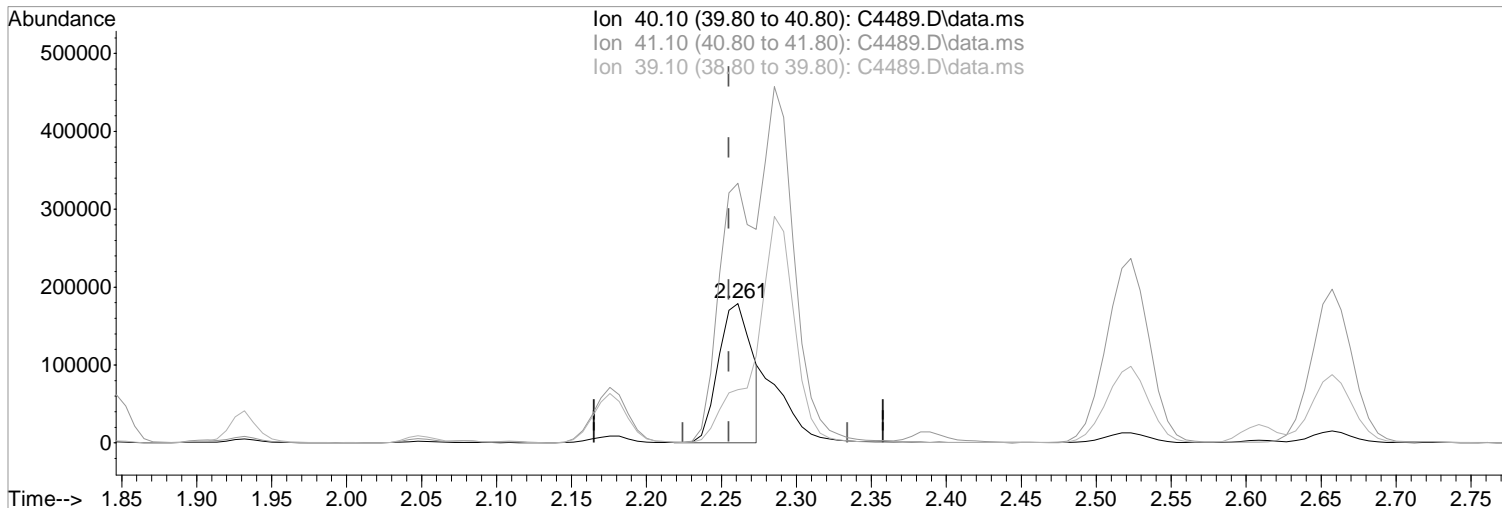
Quant Time: Jan 23 16:12:21 2018  
Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:05:15 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:42:46 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



TIC: C4489.D\data.ms

(19) Acetonitrile  
2.261min (+0.006) 937.37 ug/L m  
response 278567

Manual Integration:  
After  
Poor integration.

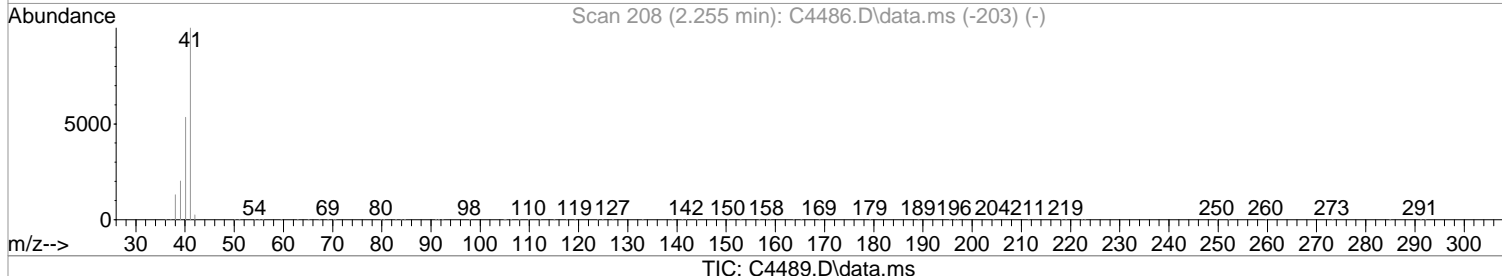
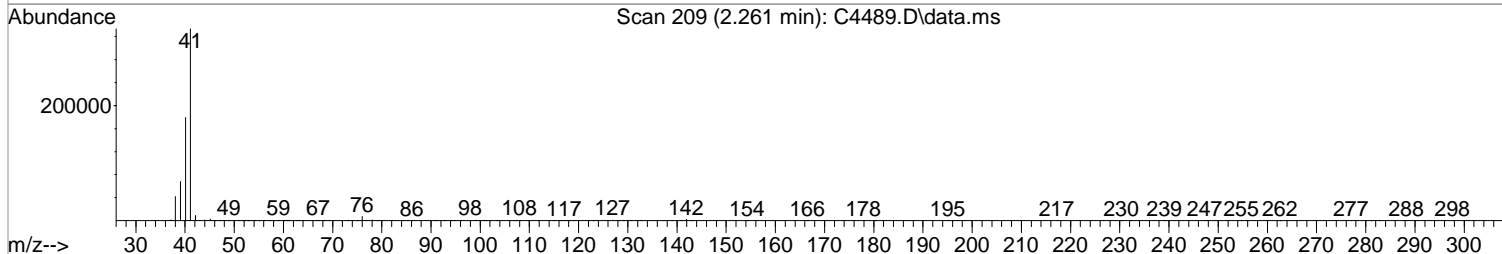
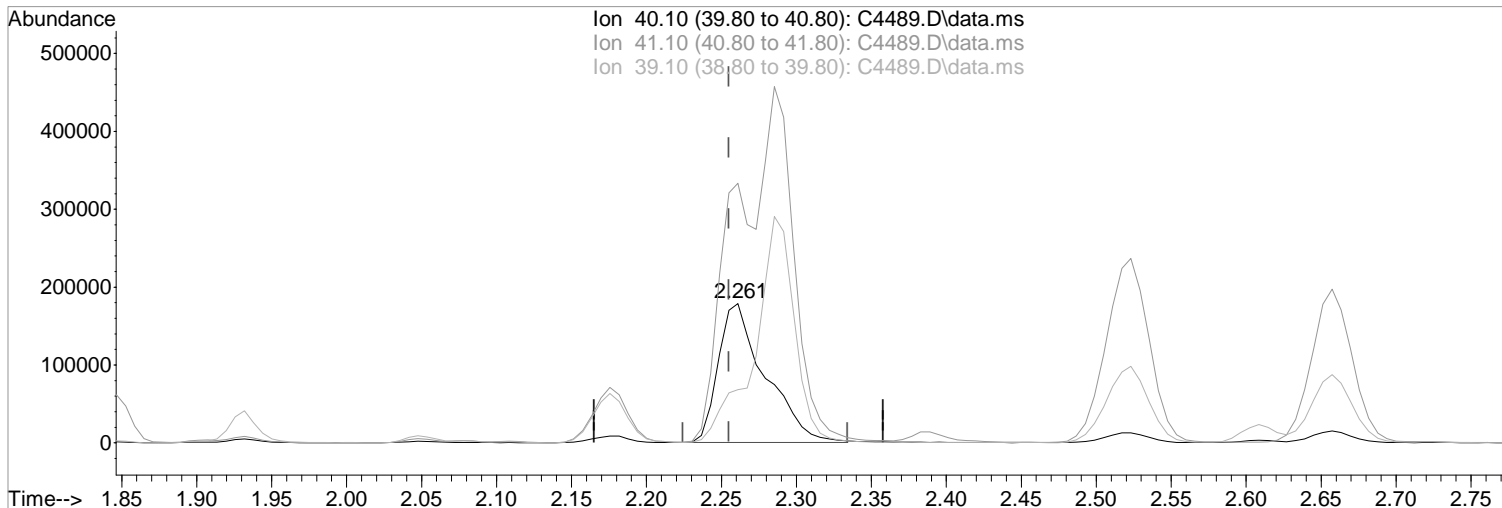
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	186.28
39.10	38.10	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:42:46 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



(19) Acetonitrile  
2.261min (+0.006) 1305.19 ug/L  
response 387877

Manual Integration:  
Before

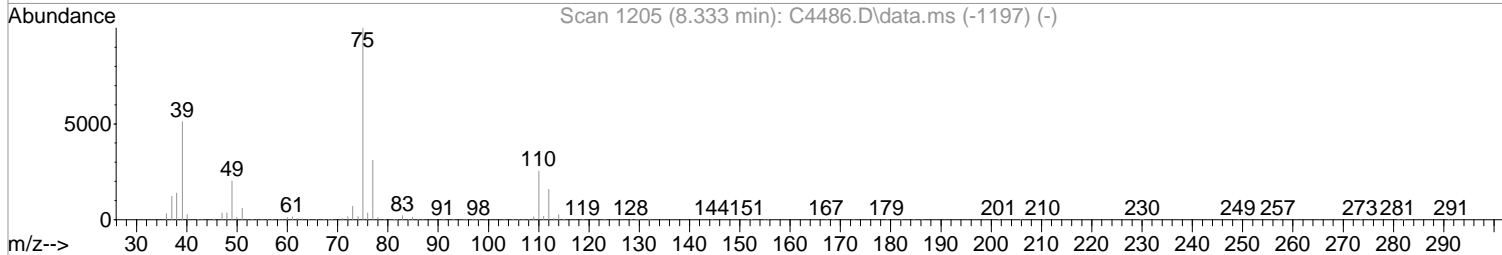
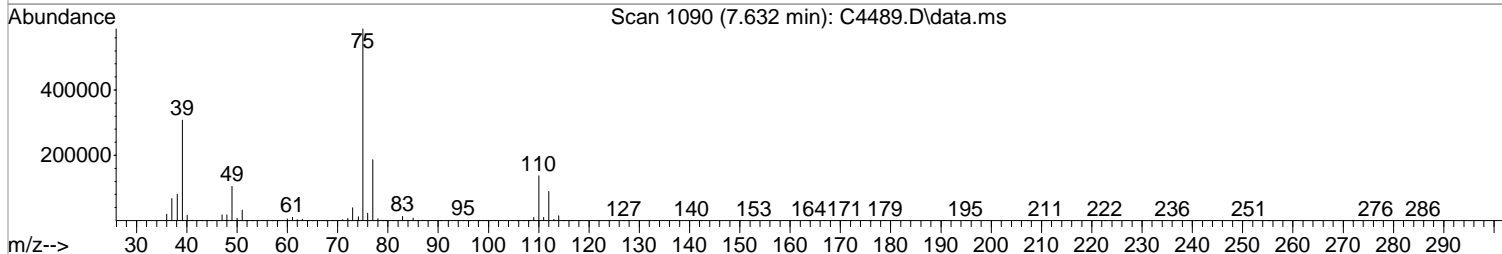
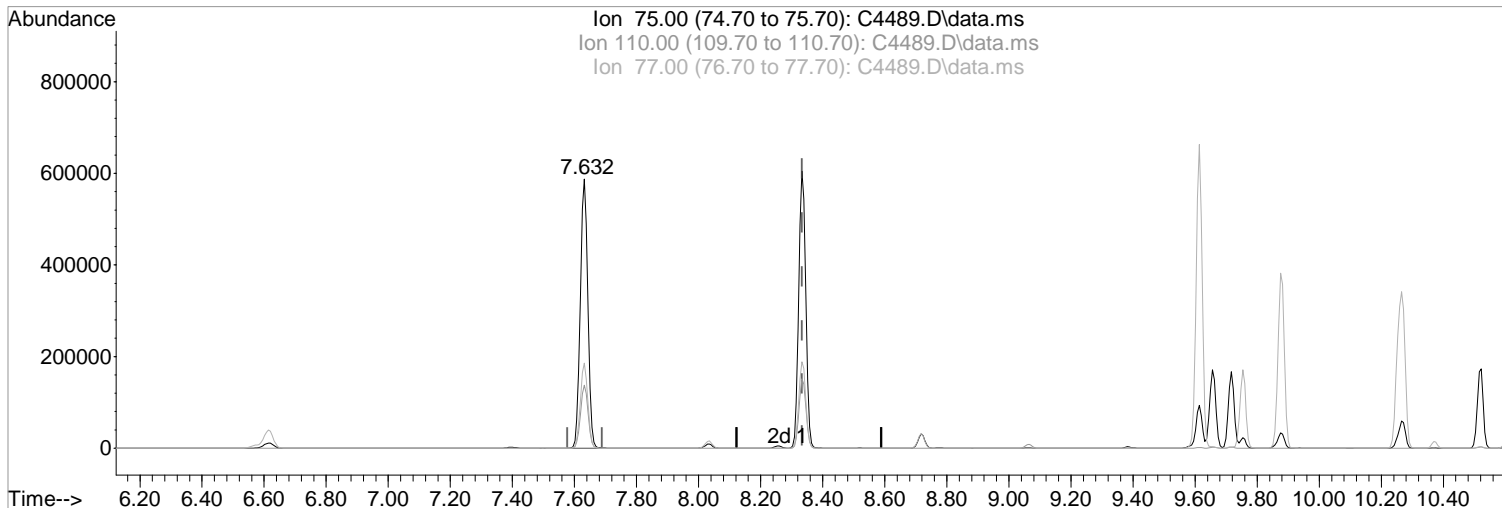
Ion	Exp%	Act%
40.10	100	100
41.10	186.70	186.28
39.10	38.10	38.08
0.00	0.00	0.00

01/23/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 13:50:44 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 228.78 ug/L m

response 977893

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	23.44
77.00	31.10	31.65
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	4.687	168	252670	50.00	ug/L	0.00	
42) 1,4-Difluorobenzene	5.943	114	373676	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.583	117	338463	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.747	152	185251	50.00	ug/L	0.00	
System Monitoring Compounds							
44) surr4,Dibrflmethane	4.535	113	123060	48.74	ug/L	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.48%	
47) surr1,1,2-dichloroetha...	5.126	65	147904	48.23	ug/L	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	96.46%	
64) SURR3,Toluene-d8	7.955	98	466248	49.29	ug/L	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.58%	
69) SURR2,BFB	10.735	95	187719	48.90	ug/L	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	97.80%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.042	85	733547	213.10	ug/L		99
3) Chloromethane	1.151	50	750038	184.89	ug/L		99
4) Vinyl Chloride	1.212	62	662742	204.01	ug/L		100
5) Bromomethane	1.401	94	290447	136.17	ug/L		98
6) Chloroethane	1.462	64	369897	195.02	ug/L		99
7) Freon 21	1.597	67	1002816	200.27	ug/L		100
8) Trichlorofluoromethane	1.639	101	720306	192.70	ug/L		99
9) Diethyl Ether	1.846	59	488697	210.12	ug/L		99
10) Freon 123a	1.846	67	626402	203.44	ug/L		97
11) Freon 123	1.889	83	735454	209.49	ug/L		97
12) Acrolein	1.932	56	773412	1095.05	ug/L		96
13) 1,1-Diclcethene	2.005	96	484108	205.52	ug/L		97
14) Freon 113	2.011	101	460981	198.16	ug/L		100
15) Acetone	2.048	43	325967	191.69	ug/L		98
16) 2-Propanol	2.176	45	1446709	4443.34	ug/L		98
17) Iodomethane	2.115	142	609662	381.68	ug/L		100
18) Carbon Disulfide	2.170	76	1500298	221.32	ug/L		99
19) Acetonitrile	2.261	40	278567m	937.37	ug/L		
20) Allyl Chloride	2.285	76	213504	186.27	ug/L	#	87
21) Methyl Acetate	2.310	43	601196	198.43	ug/L		99
22) Methylene Chloride	2.389	84	542035	202.00	ug/L		98
23) TBA	2.523	59	2363082	4298.43	ug/L		98
24) Acrylonitrile	2.609	53	1541041	1083.08	ug/L		98
25) Methyl-t-Butyl Ether	2.657	73	1814913	203.12	ug/L		99
26) trans-1,2-Dichloroethene	2.639	96	521421	206.01	ug/L		97
27) 1,1-Diclcethane	3.066	63	949751	202.50	ug/L		100
28) Vinyl Acetate	3.145	86	154649	254.45	ug/L	#	88
29) DIPE	3.188	45	1829489	205.13	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.175	53	843013	207.69	ug/L		99
31) ETBE	3.639	59	1830232	207.09	ug/L		100
32) 2,2-Dichloropropane	3.779	77	839913	203.59	ug/L		99
33) cis-1,2-Dichloroethene	3.785	96	600127	198.23	ug/L		99
34) 2-Butanone	3.828	43	437431	210.89	ug/L		98
35) Propionitrile	3.895	54	666438	1059.41	ug/L		99
36) Bromochloromethane	4.127	130	352519	192.31	ug/L		98
37) Methacrylonitrile	4.127	67	312408	209.23	ug/L		96
38) Tetrahydrofuran	4.212	42	264130	200.06	ug/L		100
39) Chloroform	4.279	83	951425	198.95	ug/L		100
40) 1,1,1-Trichloroethane	4.553	97	867757	204.13	ug/L		98



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.516	73	1823958	207.64	ug/L	99
43) Cyclohexane	4.645	41	536688	198.25	ug/L	98
45) Carbontetrachloride	4.846	117	761470	210.86	ug/L	98
46) 1,1-Dichloropropene	4.852	75	743746	199.14	ug/L	98
48) Benzene	5.218	78	2104302	201.68	ug/L	98
49) 1,2-Dichloroethane	5.260	62	806405	195.45	ug/L	99
50) Iso-Butyl Alcohol	5.285	43	1060949	4356.47	ug/L	97
51) n-Heptane	5.809	43	699718	206.47	ug/L	99
52) 1-Butanol	6.400	56	1741976	12035.34	ug/L	99
53) Trichloroethene	6.303	130	583973	200.89	ug/L	98
54) Methylcyclohexane	6.571	55	722083	206.15	ug/L	99
55) 1,2-Diclpropane	6.614	63	572912	204.62	ug/L	96
56) Dibromomethane	6.766	93	385303	204.54	ug/L	96
57) 1,4-Dioxane	6.858	88	261248	4110.65	ug/L	96
58) Methyl Methacrylate	6.894	69	534465	207.10	ug/L	98
59) Bromodichloromethane	7.028	83	765153	212.38	ug/L	99
60) 2-Nitropropane	7.345	41	467339	453.41	ug/L	99
61) 2-Chloroethylvinyl Ether	7.498	63	284592	245.86	ug/L	98
62) cis-1,3-Dichloropropene	8.333	75	944421	220.95	ug/L	100
63) 4-Methyl-2-pentanone	7.870	43	797287	209.18	ug/L	98
65) Toluene	8.034	91	2335181	202.99	ug/L	100
66) trans-1,3-Dichloropropene	8.333	75	944421	220.95	ug/L	100
67) Ethyl Methacrylate	8.510	69	941637	217.03	ug/L	99
68) 1,1,2-Trichloroethane	8.534	97	551951	203.30	ug/L	97
71) Tetrachloroethene	8.681	164	470440	195.49	ug/L	98
72) 2-Hexanone	8.876	43	626241	210.94	ug/L	99
73) 1,3-Dichloropropane	8.717	76	971319	201.81	ug/L	98
74) Dibromochloromethane	8.967	129	660273	218.82	ug/L	99
75) N-Butyl Acetate	9.065	43	1277656	209.46	ug/L	99
76) 1,2-Dibromoethane	9.065	107	608967	211.10	ug/L	96
77) 3-Chlorobenzotrifluoride	9.662	180	905402	196.68	ug/L	97
78) Chlorobenzene	9.613	112	1570697	200.38	ug/L	100
79) 4-Chlorobenzotrifluoride	9.717	180	813530	192.55	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.711	131	589922	207.73	ug/L	98
81) Ethylbenzene	9.753	106	838647	202.93	ug/L	94
82) (m+p)Xylene	9.875	106	2091316	405.69	ug/L	97
83) o-Xylene	10.253	106	1028529	204.58	ug/L	95
84) Styrene	10.272	104	1792592	208.31	ug/L	96
85) Bromoform	10.418	173	499638	226.42	ug/L	98
86) 2-Chlorobenzotrifluoride	10.522	180	897774	198.99	ug/L	98
87) Isopropylbenzene	10.613	105	2719644	203.97	ug/L	99
88) Cyclohexanone	10.668	55	2949149	4029.76	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.942	53	241015	209.20	ug/L	92
91) 1,1,2,2-Tetrachloroethane	10.887	83	875210	208.93	ug/L	99
92) Bromobenzene	10.857	156	701579	207.63	ug/L	91
93) 1,2,3-Trichloropropane	10.912	110	284265	203.25	ug/L	92
94) n-Propylbenzene	10.985	91	3098207	209.19	ug/L	98
95) 2-Chlorotoluene	11.040	91	1851643	206.99	ug/L	99
96) 3-Chlorotoluene	11.101	91	1967270	205.88	ug/L	98
97) 4-Chlorotoluene	11.143	91	2200527	210.43	ug/L	99
98) 1,3,5-Trimethylbenzene	11.150	105	2269578	212.58	ug/L	99
99) tert-Butylbenzene	11.424	119	1971527	206.17	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	2285669	209.25	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	742778	204.04	ug/L	99
102) sec-Butylbenzene	11.613	105	2902763	213.39	ug/L	99
103) p-Isopropyltoluene	11.747	119	2478127	210.72	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4489.D  
 Acq On : 23 Jan 2018 2:25 pm  
 Operator : F. NAEGLER  
 Sample : 200 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 23 14:43:18 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 14:33:54 2018  
 Response via : Initial Calibration

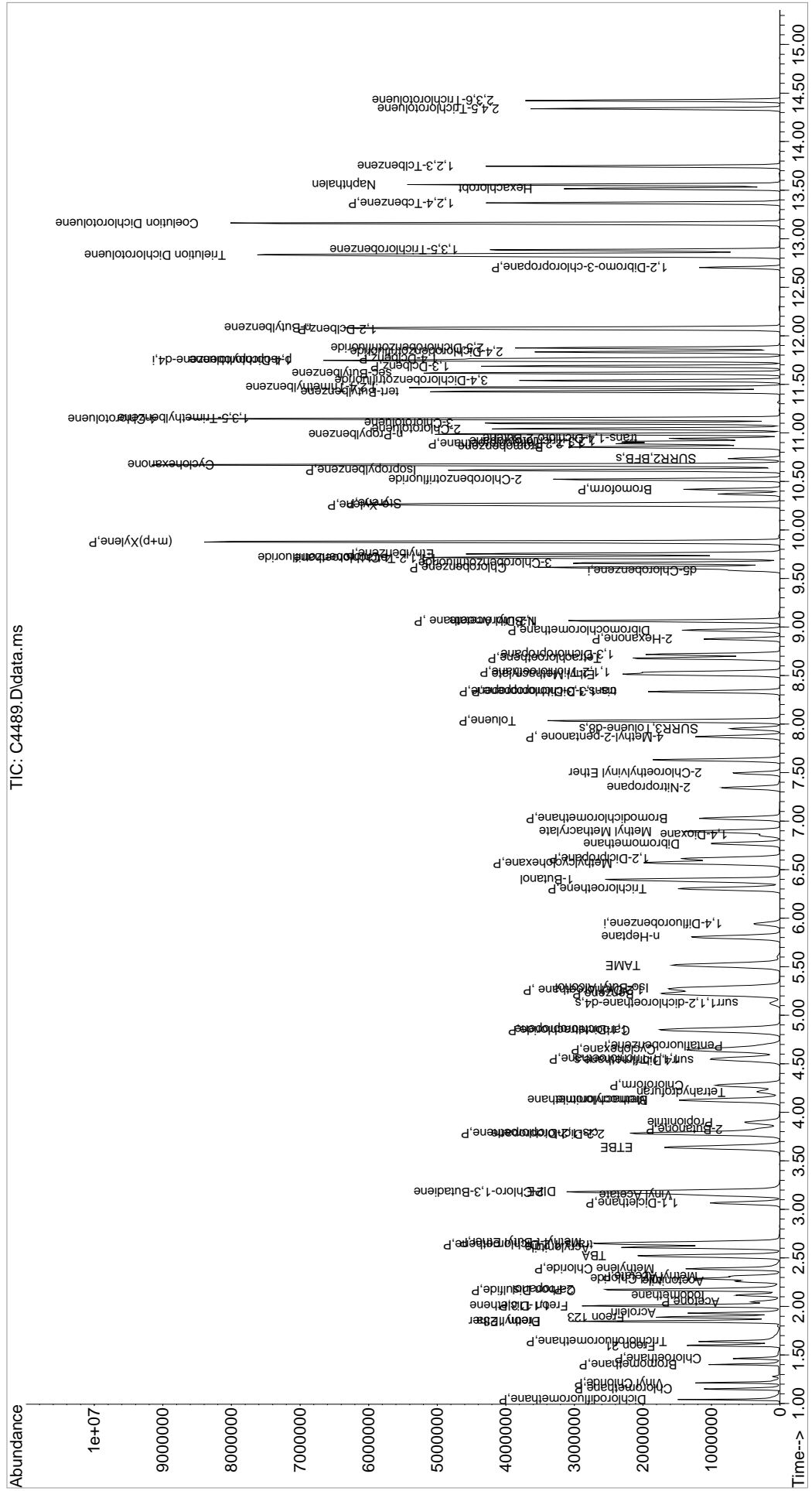
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	1314363	204.20	ug/L	99
105) 1,4-Dclbenz	11.765	146	1332621	198.40	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.832	214	675216	203.53	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	750316	200.93	ug/L	97
108) n-Butylbenzene	12.082	91	2243131	215.19	ug/L	100
109) 1,2-Dclbenz	12.070	146	1303574	205.20	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.704	157	253454	220.99	ug/L	98
111) Trielution Dichlorotol...	12.832	125	3658799	630.56	ug/L	99
112) 1,3,5-Trichlorobenzene	12.887	180	1007187	203.60	ug/L	98
113) Coelution Dichlorotoluene	13.161	125	2665987	423.30	ug/L	97
114) 1,2,4-Tcbenzene	13.369	180	974011	203.46	ug/L	99
115) Hexachlorobt	13.515	225	454008	209.03	ug/L	97
116) Naphthalen	13.558	128	3060690	214.62	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	962105	202.89	ug/L	100
118) 2,4,5-Trichlorotoluene	14.338	159	729372	208.51	ug/L	100
119) 2,3,6-Trichlorotoluene	14.423	159	661695	205.52	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\MSVOA14\Data\012318\  
Data File : C4489.D  
Acq On : 23 Jan 2018 2:25 pm  
Operator : F. NAEGLER  
Sample : 200 PPB STD  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA14

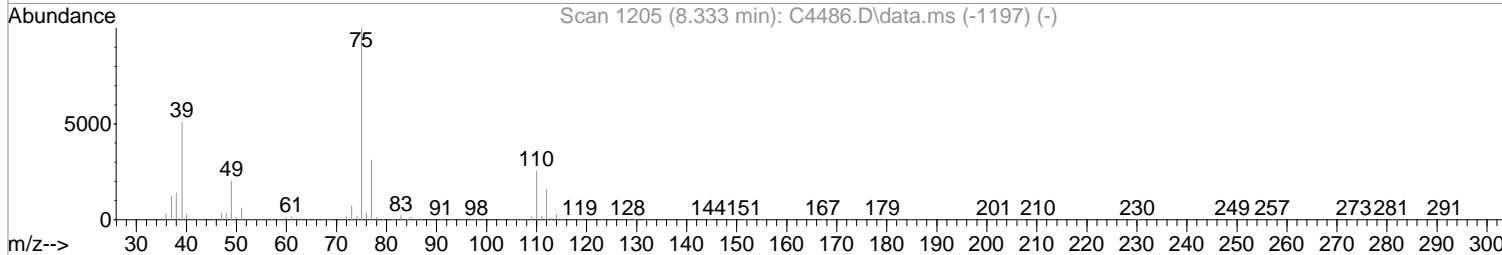
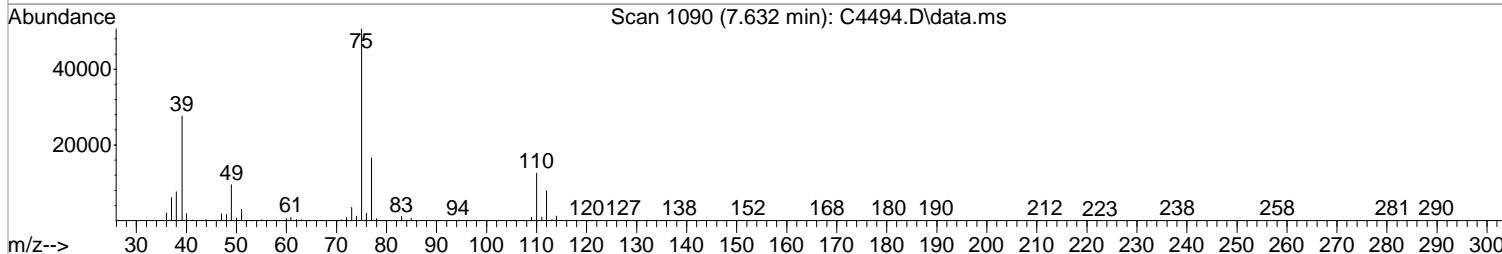
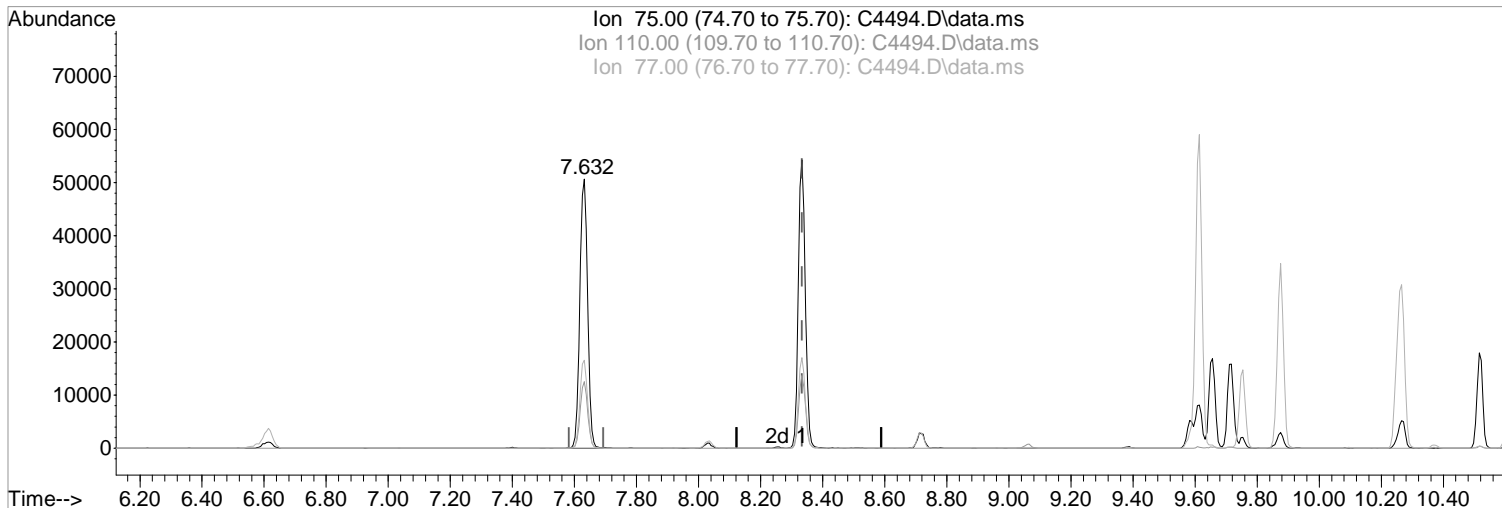
Quant Time: Jan 23 14:43:18 2018  
Quant Method : I:\ACQDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 14:33:54 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
Data File : C4494.D  
Acq On : 23 Jan 2018 4:22 pm  
Operator : F. NAEGLER  
Sample : 20 PPB STD  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Feb 07 14:27:41 2018  
Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QLast Update : Tue Jan 23 16:41:23 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

7.632min (-0.701) 19.33 ug/L m

response 88708

Ion	Exp%	Act%
75.00	100	100
110.00	25.30	24.74
77.00	31.10	32.75
0.00	0.00	0.00

Manual Integration:

After

Wrong peak selected.

02/07/18

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.694	168	270189	50.00	ug/L	0.00
42) 1,4-Difluorobenzene	5.943	114	395719	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.583	117	351547	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.741	152	192804	50.00	ug/L	0.00
System Monitoring Compounds						
44) surr4,Dibrflmethane	4.535	113	48466	14.17	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	28.34%#		
47) surr1,1,2-dichloroetha...	5.120	65	60392	14.44	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	28.88%#		
64) SURR3,Toluene-d8	7.949	98	186186	14.40	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	28.80%#		
69) SURR2,BFB	10.735	95	71734	13.70	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	27.40%#		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.042	85	66233	17.62	ug/L	100
3) Chloromethane	1.152	50	71137	16.57	ug/L	100
4) Vinyl Chloride	1.212	62	60049	17.12	ug/L	98
5) Bromomethane	1.408	94	43322	19.70	ug/L	98
6) Chloroethane	1.475	64	36999	18.12	ug/L	99
7) Freon 21	1.603	67	87760	16.37	ug/L	97
8) Trichlorofluoromethane	1.645	101	67232	16.78	ug/L	99
9) Diethyl Ether	1.847	59	47068	18.73	ug/L	98
10) Freon 123a	1.847	67	51267	15.53	ug/L	97
11) Freon 123	1.889	83	58659	15.54	ug/L	96
12) Acrolein	1.932	56	70292	91.74	ug/L	99
13) 1,1-Dicethene	2.005	96	42837	16.84	ug/L	96
14) Freon 113	2.011	101	41363	16.55	ug/L	100
15) Acetone	2.048	43	32616	18.12	ug/L	94
16) 2-Propanol	2.157	45	115186	326.21	ug/L	99
17) Iodomethane	2.121	142	30808	16.08	ug/L	99
18) Carbon Disulfide	2.176	76	131656	18.05	ug/L	99
19) Acetonitrile	2.255	40	25865	82.46	ug/L	95
20) Allyl Chloride	2.292	76	21459	17.61	ug/L	# 88
21) Methyl Acetate	2.310	43	52165	16.17	ug/L	100
22) Methylene Chloride	2.389	84	51010	17.76	ug/L	98
23) TBA	2.505	59	201293	340.06	ug/L	100
24) Acrylonitrile	2.602	53	140502	91.19	ug/L	100
25) Methyl-t-Butyl Ether	2.657	73	176787	18.45	ug/L	98
26) trans-1,2-Dichloroethene	2.645	96	46859	17.20	ug/L	99
27) 1,1-Dicethane	3.066	63	86853	17.25	ug/L	99
28) Vinyl Acetate	3.145	86	13997	20.52	ug/L	# 88
29) DIPE	3.182	45	182200	19.46	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.176	53	77114	17.89	ug/L	95
31) ETBE	3.639	59	179382	19.25	ug/L	99
32) 2,2-Dichloropropane	3.779	77	75841	17.04	ug/L	98
33) cis-1,2-Dichloroethene	3.785	96	55900	17.31	ug/L	98
34) 2-Butanone	3.828	43	40025	17.88	ug/L	97
35) Propionitrile	3.889	54	60462	89.26	ug/L	98
36) Bromochloromethane	4.120	130	36126	18.44	ug/L	93
37) Methacrylonitrile	4.120	67	29536	18.39	ug/L	99
38) Tetrahydrofuran	4.212	42	24208	17.25	ug/L	98
39) Chloroform	4.279	83	89501	17.51	ug/L	99
40) 1,1,1-Trichloroethane	4.553	97	76968	16.81	ug/L	97

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA14

Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) TAME	5.510	73	178556	19.19	ug/L	98
43) Cyclohexane	4.645	41	44938	15.73	ug/L	97
45) Carbontetrachloride	4.840	117	63137	16.34	ug/L	98
46) 1,1-Dichloropropene	4.858	75	63811	16.10	ug/L	97
48) Benzene	5.218	78	190956	17.23	ug/L	99
49) 1,2-Dichloroethane	5.260	62	81342	18.64	ug/L	98
50) Iso-Butyl Alcohol	5.260	43	88205	339.78	ug/L	100
51) n-Heptane	5.803	43	61795	17.04	ug/L	99
52) 1-Butanol	6.370	56	134893	863.52	ug/L	100
53) Trichloroethene	6.303	130	51984	16.86	ug/L	99
54) Methylcyclohexane	6.571	55	59410	15.95	ug/L	98
55) 1,2-Diclpropane	6.614	63	53272	17.87	ug/L	99
56) Dibromomethane	6.766	93	37280	18.58	ug/L	94
57) 1,4-Dioxane	6.852	88	23221	345.27	ug/L	97
58) Methyl Methacrylate	6.894	69	49771	18.14	ug/L	97
59) Bromodichloromethane	7.028	83	69397	18.02	ug/L	98
60) 2-Nitropropane	7.339	41	39381	35.58	ug/L	99
61) 2-Chloroethylvinyl Ether	7.492	63	22982	18.24	ug/L	97
62) cis-1,3-Dichloropropene	8.333	75	85244	18.57	ug/L	100
63) 4-Methyl-2-pentanone	7.870	43	71362	17.62	ug/L	99
65) Toluene	8.028	91	209577	17.14	ug/L	99
66) trans-1,3-Dichloropropene	8.333	75	85244	18.57	ug/L	100
67) Ethyl Methacrylate	8.510	69	84617	18.21	ug/L	100
68) 1,1,2-Trichloroethane	8.534	97	53758	18.69	ug/L	99
71) Tetrachloroethene	8.674	164	41982	16.79	ug/L	99
72) 2-Hexanone	8.870	43	55706	17.96	ug/L	95
73) 1,3-Dichloropropane	8.717	76	92749	18.51	ug/L	97
74) Dibromochloromethane	8.967	129	58467	18.41	ug/L	98
75) N-Butyl Acetate	9.059	43	108870	17.04	ug/L	99
76) 1,2-Dibromoethane	9.065	107	56075	18.55	ug/L	97
77) 3-Chlorobenzotrifluoride	9.656	180	94464	20.61	ug/L	98
78) Chlorobenzene	9.613	112	143048	17.54	ug/L	100
79) 4-Chlorobenzotrifluoride	9.717	180	83978	20.03	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.711	131	52845	17.79	ug/L	98
81) Ethylbenzene	9.754	106	73954	17.13	ug/L	100
82) (m+p)Xylene	9.875	106	182796	33.98	ug/L	100
83) o-Xylene	10.253	106	91711	17.42	ug/L	98
84) Styrene	10.266	104	161436	17.94	ug/L	98
85) Bromoform	10.418	173	41075	17.71	ug/L	96
86) 2-Chlorobenzotrifluoride	10.522	180	89382	19.82	ug/L	98
87) Isopropylbenzene	10.613	105	229954	16.51	ug/L	99
88) Cyclohexanone	10.662	55	269424	353.36	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.936	53	20231	16.90	ug/L	95
91) 1,1,2,2-Tetrachloroethane	10.887	83	79745	18.16	ug/L	97
92) Bromobenzene	10.851	156	65067	18.31	ug/L	99
93) 1,2,3-Trichloropropane	10.912	110	26830	18.36	ug/L #	84
94) n-Propylbenzene	10.985	91	261373	16.75	ug/L	100
95) 2-Chlorotoluene	11.040	91	162651	17.31	ug/L	98
96) 3-Chlorotoluene	11.095	91	192270	19.81	ug/L	99
97) 4-Chlorotoluene	11.137	91	193751	17.61	ug/L	99
98) 1,3,5-Trimethylbenzene	11.150	105	193086	17.13	ug/L	99
99) tert-Butylbenzene	11.424	119	166154	16.55	ug/L	99
100) 1,2,4-Trimethylbenzene	11.467	105	199426	17.38	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.540	214	77348	21.13	ug/L	99
102) sec-Butylbenzene	11.613	105	238616	16.61	ug/L	100
103) p-Isopropyltoluene	11.741	119	208235	16.80	ug/L	99

Data Path : I:\ACQUDATA\MSVOA14\Data\012318\  
 Data File : C4494.D  
 Acq On : 23 Jan 2018 4:22 pm  
 Operator : F. NAEGLER  
 Sample : 20 PPB STD Inst : MSVOA14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 23 16:51:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA14\Methods\W012318.m  
 Quant Title : MS#14 - 8260 WATERS 5mL Purge  
 QLast Update : Tue Jan 23 16:41:23 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.686	146	120514	17.87	ug/L	99
105) 1,4-Dclbenz	11.765	146	123891	17.75	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.832	214	68861	20.61	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.875	214	77290	20.60	ug/L	99
108) n-Butylbenzene	12.082	91	184995	16.79	ug/L	98
109) 1,2-Dclbenz	12.070	146	122188	18.37	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.704	157	20053	16.68	ug/L	93
111) Trielution Dichlorotol...	12.832	125	358354	60.73	ug/L	99
112) 1,3,5-Trichlorobenzene	12.881	180	102274	20.38	ug/L	98
113) Coelution Dichlorotoluene	13.155	125	261469	40.63	ug/L	98
114) 1,2,4-Tcbenzene	13.369	180	90607	18.12	ug/L	98
115) Hexachlorobt	13.515	225	40887	17.87	ug/L	96
116) Naphthalen	13.558	128	277621	18.47	ug/L	99
117) 1,2,3-Tclbenzene	13.747	180	90548	18.26	ug/L	98
118) 2,4,5-Trichlorotoluene	14.338	159	72673	20.39	ug/L	99
119) 2,3,6-Trichlorotoluene	14.423	159	66484	20.30	ug/L	98

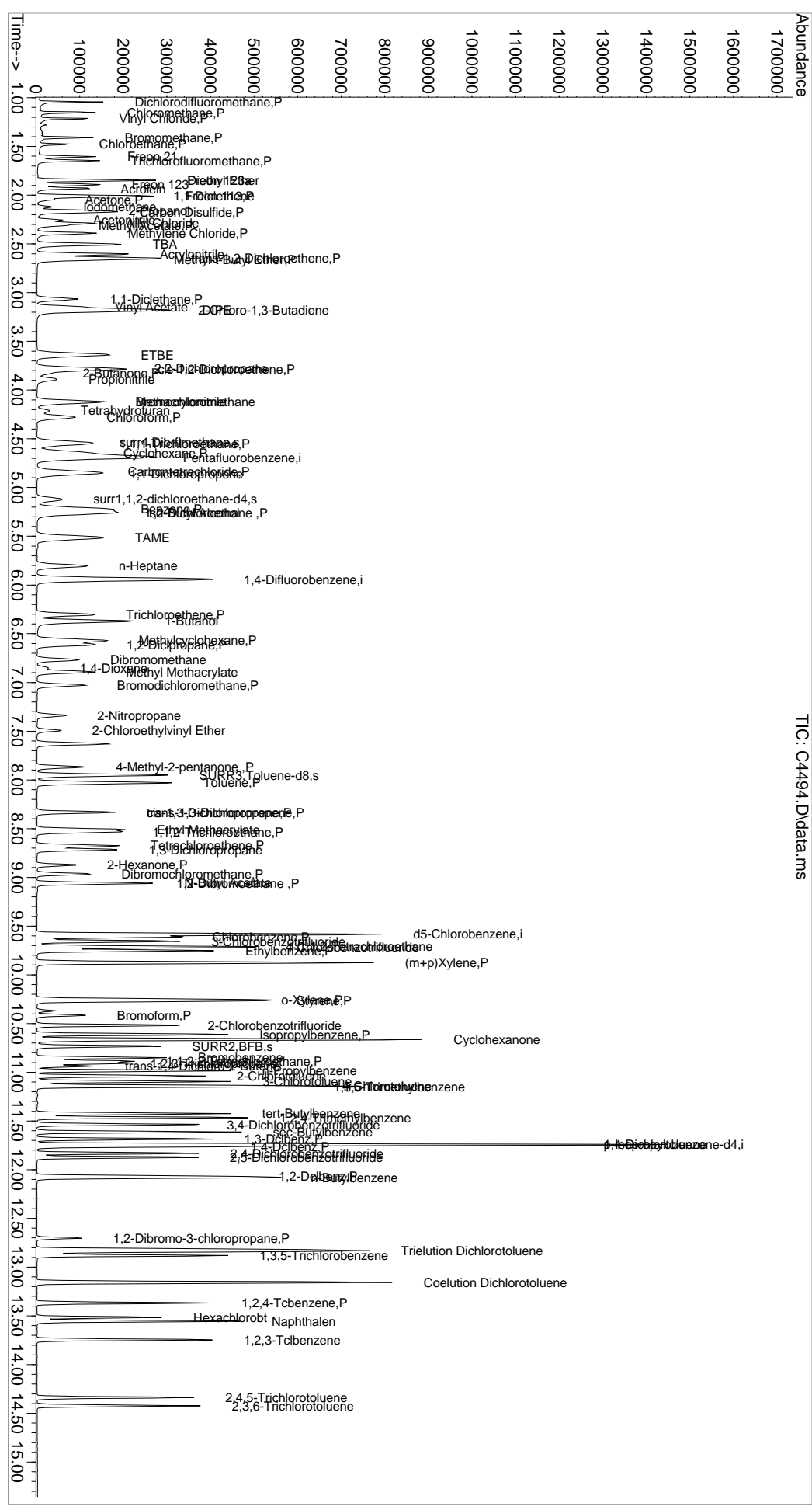
(#) = qualifier out of range (m) = manual integration (+) = signals summed



1st FU 01/24/18  
2nd  
Data Path : I:\ACQDATA\MSV0A14\Data\012318\  
Data File : C4494.D  
Acq On : 23 Jan 2018 4:22 pm  
Operator : F. NAEGLER  
Sample : 20 PPB STD  
Inst : MSV0A14  
PALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 23 16:51:32 2018  
Quant Method : I:\ACQDATA\MSV0A14\Methods\W012318.m  
Quant Title : MS#14 - 8260 WATERS 5mL Purge  
QIast Update : Tue Jan 23 16:41:23 2018  
Response via : Initial Calibration

TIC: C4494.D\data.ms





ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1802137  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800022-01	0.5 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4481.D	01/23/2018 11:27
02	RC1800022-02	1.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4482.D	01/23/2018 11:50
03	RC1800022-03	2.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4483.D	01/23/2018 12:12
04	RC1800022-04	5.0 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4484.D	01/23/2018 12:34
05	RC1800022-05	50 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4486.D	01/23/2018 13:19
06	RC1800022-06	100 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4487.D	01/23/2018 13:41
07	RC1800022-07	150 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4488.D	01/23/2018 14:03
08	RC1800022-08	200 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4489.D	01/23/2018 14:25
09	RC1800022-09	20 PPB STD	I:\ACQUADATA\MSVOA14\Data\012318\C4494.D	01/23/2018 16:22

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.825	02	1.000	0.8686	03	2.000	0.7968	04	5.000	0.8207
09	20.000	0.7122	05	50.000	0.8538	06	100.000	0.8833	07	150.000	0.8404
08	200.000	0.8586									

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.208	02	1.000	1.083	03	2.000	1.11	04	5.000	1.076
09	20.000	1.034	05	50.000	1.15	06	100.000	1.151	07	150.000	1.137
08	200.000	1.181									

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4044	02	1.000	0.322	03	2.000	0.3479	04	5.000	0.361
09	20.000	0.3396	05	50.000	0.3657	06	100.000	0.3739	07	150.000	0.368
08	200.000	0.3693									

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4935	02	1.000	0.438	03	2.000	0.4484	04	5.000	0.4474
09	20.000	0.3827	05	50.000	0.4674	06	100.000	0.4814	07	150.000	0.4463
08	200.000	0.4561									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9808	02	1.000	0.9046	03	2.000	0.8997	04	5.000	0.9049
09	20.000	0.8036	05	50.000	0.9214	06	100.000	0.9672	07	150.000	0.9182
08	200.000	0.9397									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4869	02	1.000	0.4366	03	2.000	0.4492	04	5.000	0.4529
09	20.000	0.3964	05	50.000	0.4718	06	100.000	0.4971	07	150.000	0.4684
08	200.000	0.479									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1802137  
Calibration Date: 1/23/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.404	02	1.000	1.241	03	2.000	1.249	04	5.000	1.266
09	20.000	1.174	05	50.000	1.262	06	100.000	1.281	07	150.000	1.256
08	200.000	1.298									

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.393	02	1.000	1.257	03	2.000	1.224	04	5.000	1.306
09	20.000	1.175	05	50.000	1.292	06	100.000	1.298	07	150.000	1.275
08	200.000	1.314									

1,2,4-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.131	02	1.000	2.863	03	2.000	2.852	04	5.000	2.83
09	20.000	2.586	05	50.000	2.986	06	100.000	3.029	07	150.000	2.945
08	200.000	3.085									

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3471	02	1.000	0.2822	03	2.000	0.2743	04	5.000	0.2986
09	20.000	0.26	05	50.000	0.3204	06	100.000	0.3223	07	150.000	0.3219
08	200.000	0.342									

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3949	02	1.000	0.4238	03	2.000	0.3895	04	5.000	0.4378
09	20.000	0.3988	05	50.000	0.4408	06	100.000	0.4527	07	150.000	0.4435
08	200.000	0.4498									

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.75	02	1.000	1.697	03	2.000	1.721	04	5.000	1.649
09	20.000	1.584	05	50.000	1.726	06	100.000	1.739	07	150.000	1.721
08	200.000	1.759									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5913	02	1.000	0.5301	03	2.000	0.55	04	5.000	0.557
09	20.000	0.5139	05	50.000	0.551	06	100.000	0.5511	07	150.000	0.5338
08	200.000	0.5395									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3744	02	1.000	0.3786	03	2.000	0.3616	04	5.000	0.3702
09	20.000	0.3366	05	50.000	0.3768	06	100.000	0.3874	07	150.000	0.3735
08	200.000	0.3833									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

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Service Request: R1802137  
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Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

1,3,5-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.817	02	1.000	2.762	03	2.000	2.877	04	5.000	2.882
09	20.000	2.504	05	50.000	2.938	06	100.000	3.005	07	150.000	2.89
08	200.000	3.063									

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.907	02	1.000	1.622	03	2.000	1.726	04	5.000	1.713
09	20.000	1.563	05	50.000	1.726	06	100.000	1.753	07	150.000	1.714
08	200.000	1.774									

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.043	02	1.000	1.771	03	2.000	1.853	04	5.000	1.753
09	20.000	1.606	05	50.000	1.752	06	100.000	1.772	07	150.000	1.745
08	200.000	1.798									

1,4-Dioxane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.009036	03	40.000	0.008018	04	100.000	0.008382	09	400.000	0.007335
05	1000.000	0.008403	06	2000.000	0.008572	07	3000.000	0.008611	08	4000.000	0.008739

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.4027	04	5.000	0.4085	09	20.000	0.3703	05	50.000	0.404
06	100.000	0.4165	07	150.000	0.4207	08	200.000	0.4328			

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.402	02	1.000	0.4333	03	2.000	0.4493	04	5.000	0.4347
09	20.000	0.3961	05	50.000	0.4455	06	100.000	0.448	07	150.000	0.4573
08	200.000	0.4626									

4-Isopropyltoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.244	02	1.000	3.009	03	2.000	3.113	04	5.000	3.133
09	20.000	2.7	05	50.000	3.219	06	100.000	3.3	07	150.000	3.201
08	200.000	3.344									

4-Methyl-2-pentanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5532	02	1.000	0.4649	03	2.000	0.5047	04	5.000	0.4848
09	20.000	0.4508	05	50.000	0.5104	06	100.000	0.5241	07	150.000	0.5278
08	200.000	0.5334									

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.368	04	5.000	0.3726	09	20.000	0.3018	05	50.000	0.3108

ALS Group USA, Corp.  
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QA/QC Report

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Calibration Date: 1/23/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
Instrument ID: R-MS-14

Signal ID: 1

Analyte

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	100.000	0.3144	07	150.000	0.3166	08	200.000	0.3225			

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.483	02	1.000	1.382	03	2.000	1.35	04	5.000	1.351
09	20.000	1.206	05	50.000	1.401	06	100.000	1.436	07	150.000	1.369
08	200.000	1.408									

Bromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3947	02	1.000	0.3318	03	2.000	0.3729	04	5.000	0.3716
09	20.000	0.3343	05	50.000	0.3598	06	100.000	0.3617	07	150.000	0.3467
08	200.000	0.3488									

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4767	02	1.000	0.4564	03	2.000	0.4562	04	5.000	0.468
09	20.000	0.4384	05	50.000	0.5006	06	100.000	0.5158	07	150.000	0.5008
08	200.000	0.5119									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3266	02	1.000	0.3133	03	2.000	0.2774	04	5.000	0.2948
09	20.000	0.2921	05	50.000	0.3433	06	100.000	0.3609	07	150.000	0.3655
08	200.000	0.369									

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6067	02	1.000	0.5558	03	2.000	0.5009	04	5.000	0.3658
09	20.000	0.4008	05	50.000	0.3636	06	100.000	0.2905	07	150.000	0.2712

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.387	02	1.000	1.249	03	2.000	1.258	04	5.000	1.287
09	20.000	1.218	05	50.000	1.382	06	100.000	1.399	07	150.000	1.429
08	200.000	1.484									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4705	02	1.000	0.4768	03	2.000	0.4435	04	5.000	0.4673
09	20.000	0.3989	05	50.000	0.504	06	100.000	0.5239	07	150.000	0.4966
08	200.000	0.5094									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.206	02	1.000	1.101	03	2.000	1.164	04	5.000	1.142
09	20.000	1.017	05	50.000	1.161	06	100.000	1.186	07	150.000	1.147

ALS Group USA, Corp.  
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QA/QC Report

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Volatile Organic Compounds by GC/MS

Calibration ID: RC1800022  
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Signal ID: 1

Analyte

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	200.000	1.16									

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4365	02	1.000	0.3693	03	2.000	0.3383	04	5.000	0.3601
09	20.000	0.3423	05	50.000	0.3928	06	100.000	0.388	07	150.000	0.2707
08	200.000	0.366									

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.068	02	1.000	0.9097	03	2.000	0.924	04	5.000	0.9051
09	20.000	0.8281	05	50.000	0.9287	06	100.000	0.9708	07	150.000	0.918
08	200.000	0.9414									

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9851	02	1.000	0.8035	03	2.000	0.8183	04	5.000	0.74
09	20.000	0.6582	05	50.000	0.7646	06	100.000	0.7704	07	150.000	0.7372
08	200.000	0.7421									

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3625	03	2.000	0.3647	04	5.000	0.3495	09	20.000	0.2839
05	50.000	0.3713	06	100.000	0.3664	07	150.000	0.359	08	200.000	0.3591

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4533	02	1.000	0.3986	03	2.000	0.4199	04	5.000	0.4101
09	20.000	0.4158	05	50.000	0.4722	06	100.000	0.4842	07	150.000	0.4819
08	200.000	0.4877									

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6885	02	1.000	0.6476	03	2.000	0.6298	04	5.000	0.6149
09	20.000	0.6128	05	50.000	0.7266	06	100.000	0.7515	07	150.000	0.7093
08	200.000	0.7258									

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5567	02	1.000	0.4947	03	2.000	0.5616	04	5.000	0.5129
09	20.000	0.472	05	50.000	0.5206	06	100.000	0.5456	07	150.000	0.5248
08	200.000	0.5363									

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6591	02	1.000	0.5791	03	2.000	0.5589	04	5.000	0.6192
09	20.000	0.5259	05	50.000	0.6173	06	100.000	0.6322	07	150.000	0.6078

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Analyte

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	200.000	0.6195									

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.052	02	1.000	1.865	03	2.000	1.894	04	5.000	1.934
09	20.000	1.635	05	50.000	2.004	06	100.000	2.052	07	150.000	1.985
08	200.000	2.009									

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.687	02	1.000	0.5648	03	2.000	0.6208	04	5.000	0.574
09	20.000	0.4827	05	50.000	0.5714	06	100.000	0.5936	07	150.000	0.5852
08	200.000	0.5948									

Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.82	02	1.000	1.708	03	2.000	1.744	04	5.000	1.771
09	20.000	1.636	05	50.000	1.761	06	100.000	1.809	07	150.000	1.765
08	200.000	1.796									

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4643	02	1.000	0.4501	03	2.000	0.4553	04	5.000	0.4574
09	20.000	0.3753	05	50.000	0.4874	06	100.000	0.4872	07	150.000	0.4791
08	200.000	0.4831									

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.299	02	1.000	1.175	03	2.000	1.203	04	5.000	1.248
09	20.000	1.148	05	50.000	1.311	06	100.000	1.345	07	150.000	1.318
08	200.000	1.324									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3547	02	1.000	0.3539	03	2.000	0.3709	04	5.000	0.3506
09	20.000	0.2986	05	50.000	0.3556	06	100.000	0.3607	07	150.000	0.3422
08	200.000	0.3475									

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.655	02	1.000	1.488	03	2.000	1.489	04	5.000	1.486
09	20.000	1.324	05	50.000	1.544	06	100.000	1.593	07	150.000	1.52
08	200.000	1.562									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.383	02	1.000	0.3947	03	2.000	0.389	04	5.000	0.3869

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

**Analyte**

**Trichloroethene (TCE)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	20.000	0.3284	05	50.000	0.3871	06	100.000	0.4028	07	150.000	0.3791
08	200.000	0.3907									

**Trichlorofluoromethane (CFC 11)**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7424	02	1.000	0.7383	03	2.000	0.7578	04	5.000	0.7409
09	20.000	0.6221	05	50.000	0.7903	06	100.000	0.759	07	150.000	0.6494
08	200.000	0.7127									

**Vinyl Chloride**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6742	02	1.000	0.6391	03	2.000	0.5944	04	5.000	0.6035
09	20.000	0.5556	05	50.000	0.66	06	100.000	0.6805	07	150.000	0.6481
08	200.000	0.6557									

**cis-1,2-Dichloroethene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6688	02	1.000	0.5948	03	2.000	0.5802	04	5.000	0.5762
09	20.000	0.5172	05	50.000	0.5831	06	100.000	0.6095	07	150.000	0.581
08	200.000	0.5938									

**cis-1,3-Dichloropropene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5844	02	1.000	0.5416	03	2.000	0.5824	04	5.000	0.5924
09	20.000	0.5604	05	50.000	0.6375	06	100.000	0.6582	07	150.000	0.647
08	200.000	0.6542									

**m,p-Xylenes**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7762	02	2.000	0.727	03	4.000	0.7519	04	10.000	0.7506
09	40.000	0.65	05	100.000	0.7769	06	200.000	0.7875	07	300.000	0.7605
08	400.000	0.7724									

**n-Butylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.924	02	1.000	2.665	03	2.000	2.652	04	5.000	2.708
09	20.000	2.399	05	50.000	2.853	06	100.000	2.97	07	150.000	2.922
08	200.000	3.027									

**n-Propylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	4.215	02	1.000	3.915	03	2.000	3.851	04	5.000	3.893
09	20.000	3.389	05	50.000	4.036	06	100.000	4.114	07	150.000	3.957
08	200.000	4.181									

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

**Analyte**

**o-Xylene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7409	02	1.000	0.6981	03	2.000	0.735	04	5.000	0.7259
09	20.000	0.6522	05	50.000	0.7672	06	100.000	0.7784	07	150.000	0.7535
08	200.000	0.7597									

**sec-Butylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	3.676	02	1.000	3.612	03	2.000	3.486	04	5.000	3.648
09	20.000	3.094	05	50.000	3.726	06	100.000	3.837	07	150.000	3.714
08	200.000	3.917									

**tert-Butylbenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.627	02	1.000	2.561	03	2.000	2.562	04	5.000	2.572
09	20.000	2.154	05	50.000	2.588	06	100.000	2.634	07	150.000	2.522
08	200.000	2.661									

**trans-1,2-Dichloroethene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4846	02	1.000	0.4941	03	2.000	0.501	04	5.000	0.4926
09	20.000	0.4336	05	50.000	0.5058	06	100.000	0.5267	07	150.000	0.5012
08	200.000	0.5159									

**trans-1,3-Dichloropropene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5873	02	1.000	0.4995	03	2.000	0.5264	04	5.000	0.5449
09	20.000	0.5385	05	50.000	0.5987	06	100.000	0.6273	07	150.000	0.6194
08	200.000	0.6318									

**4-Bromofluorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.5643	09	20.000	0.4532	05	50.000	0.4979	06	100.000	0.4951
07	200.000	0.4972									

**Dibromofluoromethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3789	09	20.000	0.3062	05	50.000	0.3292	06	100.000	0.3251
07	200.000	0.3182									

**Toluene-d8**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.409	09	20.000	1.176	05	50.000	1.239	06	100.000	1.219
07	200.000	1.196									



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	6.2	20	0.8288	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	4.9	20	1.126	0.300
1,1,2-Trichloroethane	TRG	Average RF	% RSD	6.4	20	0.3613	0.100
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	7.0	20	0.4513	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	5.5	20	0.9156	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	6.6	20	0.4598	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	4.8	20	1.27	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	4.8	20	1.282	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	5.6	20	2.923	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	9.9	20	0.3077	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	5.9	20	0.4257	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.3	20	1.705	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	3.9	20	0.5464	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	4.0	20	0.3714	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	5.6	20	2.86	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	5.6	20	1.722	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	6.5	20	1.788	0.500
1,4-Dioxane	TRG	Average RF	% RSD	6.2	20	0.008387	
2-Butanone (MEK)	TRG	Average RF	% RSD	4.8	20	0.4079	0.05
2-Hexanone	TRG	Average RF	% RSD	5.3	20	0.4365	0.05
4-Isopropyltoluene	TRG	Average RF	% RSD	6.2	20	3.14	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	6.6	20	0.506	0.05
Acetone	TRG	Average RF	% RSD	8.7	20	0.3295	0.05
Benzene	TRG	Average RF	% RSD	5.6	20	1.376	0.500
Bromochloromethane	TRG	Average RF	% RSD	5.6	20	0.358	
Bromodichloromethane	TRG	Average RF	% RSD	5.8	20	0.4805	0.200
Bromoform	TRG	Average RF	% RSD	10.6	20	0.327	0.100
Bromomethane	TRG	Quadratic	COD	0.9952	0.99	0.4194	0.100
Carbon Disulfide	TRG	Average RF	% RSD	6.9	20	1.344	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	8.0	20	0.4768	0.05
Chlorobenzene	TRG	Average RF	% RSD	4.8	20	1.143	0.500
Chloroethane	TRG	Average RF	% RSD	12.5	20	0.3627	0.100
Chloroform	TRG	Average RF	% RSD	6.8	20	0.9326	0.200
Chloromethane	TRG	Average RF	% RSD	11.5	20	0.7799	0.100

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 1/23/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Cyclohexane	TRG	Average RF	% RSD	8.0	20	0.352	0.100
Dibromochloromethane	TRG	Average RF	% RSD	8.0	20	0.4471	0.100
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	7.8	20	0.6785	0.100
Dichloromethane	TRG	Average RF	% RSD	5.5	20	0.525	0.100
Ethylbenzene	TRG	Average RF	% RSD	6.7	20	0.6021	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	6.7	20	1.937	0.100
Methyl Acetate	TRG	Average RF	% RSD	9.2	20	0.586	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	3.2	20	1.757	0.100
Methylcyclohexane	TRG	Average RF	% RSD	7.6	20	0.4599	0.100
Styrene	TRG	Average RF	% RSD	5.7	20	1.263	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	5.8	20	0.3483	0.200
Toluene	TRG	Average RF	% RSD	6.1	20	1.518	0.400
Trichloroethene (TCE)	TRG	Average RF	% RSD	5.6	20	0.3824	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	7.5	20	0.7236	0.100
Vinyl Chloride	TRG	Average RF	% RSD	6.5	20	0.6346	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	6.7	20	0.5894	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	7.2	20	0.6065	0.200
m,p-Xylenes	TRG	Average RF	% RSD	5.6	20	0.7503	0.100
n-Butylbenzene	TRG	Average RF	% RSD	7.2	20	2.791	
n-Propylbenzene	TRG	Average RF	% RSD	6.2	20	3.95	
o-Xylene	TRG	Average RF	% RSD	5.3	20	0.7345	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	6.5	20	3.635	
tert-Butylbenzene	TRG	Average RF	% RSD	6.0	20	2.542	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	5.3	20	0.4951	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	8.5	20	0.5749	0.100
4-Bromofluorobenzene	SURR	Average RF	% RSD	7.9	20	0.5016	
Dibromofluoromethane	SURR	Average RF	% RSD	8.4	20	0.3315	
Toluene-d8	SURR	Average RF	% RSD	7.4	20	1.248	

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1800022-10	50 PPB ICV	I:\ACQUADATA\MSVOA14\Data\012318\C4496.D	01/23/2018 17:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	51.1	8.288E-1	8.465E-1	2.13	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	49.7	1.126E0	1.118E0	-0.672	±30	Average RF
1,1,2-Trichloroethane	50.0	50.7	3.613E-1	3.66E-1	1.31	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	51.2	4.513E-1	4.618E-1	2.33	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.0	9.156E-1	9.344E-1	2.06	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	50.2	4.598E-1	4.618E-1	0.440	±30	Average RF
1,2,3-Trichlorobenzene	50.0	49.3	1.27E0	1.252E0	-1.423	±30	Average RF
1,2,4-Trichlorobenzene	50.0	49.5	1.282E0	1.269E0	-1.015	±30	Average RF
1,2,4-Trimethylbenzene	50.0	50.7	2.923E0	2.966E0	1.45	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	47.7	3.077E-1	2.933E-1	-4.671	±30	Average RF
1,2-Dibromoethane	50.0	51.1	4.257E-1	4.348E-1	2.14	±30	Average RF
1,2-Dichlorobenzene	50.0	50.4	1.705E0	1.717E0	0.726	±30	Average RF
1,2-Dichloroethane	50.0	50.1	5.464E-1	5.473E-1	0.169	±30	Average RF
1,2-Dichloropropane	50.0	50.8	3.714E-1	3.771E-1	1.54	±30	Average RF
1,3,5-Trimethylbenzene	50.0	51.0	2.86E0	2.916E0	1.96	±30	Average RF
1,3-Dichlorobenzene	50.0	50.6	1.722E0	1.743E0	1.22	±30	Average RF
1,4-Dichlorobenzene	50.0	48.9	1.788E0	1.749E0	-2.205	±30	Average RF
1,4-Dioxane	1000	965	8.387E-3	8.097E-3	-3.462	±30	Average RF
2-Butanone (MEK)	50.0	51.2	4.079E-1	4.177E-1	2.39	±30	Average RF
2-Hexanone	50.0	50.3	4.365E-1	4.391E-1	0.582	±30	Average RF
4-Isopropyltoluene	50.0	50.6	3.14E0	3.178E0	1.22	±30	Average RF
4-Methyl-2-pentanone	50.0	50.0	5.06E-1	5.063E-1	0.046	±30	Average RF
Acetone	50.0	50.4	3.295E-1	3.321E-1	0.770	±30	Average RF
Benzene	50.0	50.6	1.376E0	1.392E0	1.14	±30	Average RF
Bromochloromethane	50.0	49.7	3.58E-1	3.555E-1	-0.696	±30	Average RF
Bromodichloromethane	50.0	52.2	4.805E-1	5.016E-1	4.38	±30	Average RF
Bromoform	50.0	50.1	3.27E-1	3.278E-1	0.231	±30	Average RF
Bromomethane	50.0	43.8	4.194E-1	3.208E-1	-12.456	±30	Quadratic
Carbon Disulfide	50.0	51.7	1.344E0	1.389E0	3.35	±30	Average RF
Carbon Tetrachloride	50.0	50.9	4.768E-1	4.851E-1	1.75	±30	Average RF
Chlorobenzene	50.0	49.9	1.143E0	1.14E0	-0.204	±30	Average RF
Chloroethane	50.0	53.0	3.627E-1	3.845E-1	6.03	±30	Average RF
Chloroform	50.0	50.9	9.326E-1	9.489E-1	1.74	±30	Average RF
Chloromethane	50.0	46.5	7.799E-1	7.253E-1	-7.012	±30	Average RF
Cyclohexane	50.0	48.7	3.52E-1	3.431E-1	-2.540	±30	Average RF

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 1/23/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800022  
**Instrument ID:** R-MS-14

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1800022-10	50 PPB ICV	I:\ACQUDATA\MSVOA14\Data\012318\C4496.D	01/23/2018 17:06

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Dibromochloromethane	50.0	50.6	4.471E-1	4.526E-1	1.23	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	45.4	6.785E-1	6.163E-1	-9.167	±30	Average RF
Dichloromethane	50.0	49.1	5.25E-1	5.152E-1	-1.880	±30	Average RF
Ethylbenzene	50.0	49.9	6.021E-1	6.008E-1	-0.210	±30	Average RF
Isopropylbenzene (Cumene)	50.0	48.7	1.937E0	1.885E0	-2.698	±30	Average RF
Methyl Acetate	50.0	47.9	5.86E-1	5.611E-1	-4.256	±30	Average RF
Methyl tert-Butyl Ether	50.0	49.6	1.757E0	1.744E0	-0.730	±30	Average RF
Methylcyclohexane	50.0	49.4	4.599E-1	4.545E-1	-1.184	±30	Average RF
Styrene	50.0	50.2	1.263E0	1.268E0	0.335	±30	Average RF
Tetrachloroethene (PCE)	50.0	48.9	3.483E-1	3.409E-1	-2.122	±30	Average RF
Toluene	50.0	50.0	1.518E0	1.518E0	0.017	±30	Average RF
Trichloroethene (TCE)	50.0	51.2	3.824E-1	3.917E-1	2.43	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	54.3	7.236E-1	7.857E-1	8.58	±30	Average RF
Vinyl Chloride	50.0	51.1	6.346E-1	6.488E-1	2.24	±30	Average RF
cis-1,2-Dichloroethene	50.0	49.6	5.894E-1	5.846E-1	-0.811	±30	Average RF
cis-1,3-Dichloropropene	50.0	51.7	6.065E-1	6.274E-1	3.45	±30	Average RF
m,p-Xylenes	100	99.4	7.503E-1	7.458E-1	-0.602	±30	Average RF
n-Butylbenzene	50.0	51.3	2.791E0	2.862E0	2.53	±30	Average RF
n-Propylbenzene	50.0	49.6	3.95E0	3.918E0	-0.814	±30	Average RF
o-Xylene	50.0	49.7	7.345E-1	7.297E-1	-0.656	±30	Average RF
sec-Butylbenzene	50.0	50.1	3.635E0	3.643E0	0.218	±30	Average RF
tert-Butylbenzene	50.0	49.0	2.542E0	2.491E0	-2.041	±30	Average RF
trans-1,2-Dichloroethene	50.0	51.3	4.951E-1	5.076E-1	2.54	±30	Average RF
trans-1,3-Dichloropropene	50.0	51.7	5.749E-1	5.941E-1	3.34	±30	Average RF
4-Bromofluorobenzene	50.0	49.0	5.016E-1	4.916E-1	-1.985	±30	Average RF
Dibromofluoromethane	50.0	48.6	3.315E-1	3.224E-1	-2.752	±30	Average RF
Toluene-d8	50.0	49.1	1.248E0	1.225E0	-1.808	±30	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1802137  
Date Analyzed: 03/13/18 21:50

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

Analysis Method: 8260C  
File ID: I:\ACQUADATA\MSVOA14\Data\031318\C5472.D\  
Signal ID: 1

Calibration Date: 1/23/2018  
Calibration ID: RC1800022  
Analysis Lot: 583391  
Units: ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.6	0.8288	0.7889	-4.8	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	44.5	1.1255	1.0008	-11.1	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	49.6	0.3613	0.3587	-0.7	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.6	0.4513	0.448	-0.7	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	51.1	0.9156	0.9348	2.1	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.3	0.4598	0.4346	-5.5	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	43.7	1.2702	1.1092	-12.7	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	43.8	1.2815	1.1239	-12.3	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	45.9	2.9231	2.684	-8.2	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	36.8	0.3077	0.2267	-26.3*	NA	±20	Average RF
1,2-Dibromoethane	50.0	49.3	0.4257	0.4195	-1.5	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	47.6	1.7051	1.622	-4.9	NA	±20	Average RF
1,2-Dichloroethane	50.0	55.7	0.5464	0.609	11.4	NA	±20	Average RF
1,2-Dichloropropane	50.0	50.4	0.3714	0.3744	0.8	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	46.7	2.8597	2.6718	-6.6	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	46.2	1.7219	1.5909	-7.6	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	45.6	1.7883	1.6312	-8.8	NA	±20	Average RF
1,4-Dioxane	1000	849	0.0084	0.0071	-15.1	NA	±20	Average RF
2-Butanone (MEK)	50.0	50.8	0.4079	0.4142	1.5	NA	±20	Average RF
2-Hexanone	50.0	47.9	0.4365	0.4185	-4.1	NA	±20	Average RF
4-Isopropyltoluene	50.0	44.0	3.1403	2.7637	-12.0	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	50.4	0.506	0.5101	0.8	NA	±20	Average RF
Acetone	50.0	51.3	0.3295	0.3381	2.6	NA	±20	Average RF
Benzene	50.0	48.2	1.3763	1.3272	-3.6	NA	±20	Average RF
Bromochloromethane	50.0	50.7	0.358	0.3632	1.4	NA	±20	Average RF
Bromodichloromethane	50.0	49.2	0.4805	0.4732	-1.5	NA	±20	Average RF
Bromoform	50.0	42.4	0.327	0.2774	-15.2	NA	±20	Average RF
Bromomethane	50.0	57.4	0.4194	0.4045	NA	14.8	±20	Quadratic
Carbon Disulfide	50.0	49.5	1.3436	1.3294	-1.1	NA	±20	Average RF
Carbon Tetrachloride	50.0	44.6	0.4768	0.4248	-10.9	NA	±20	Average RF
Chlorobenzene	50.0	46.6	1.1426	1.0644	-6.8	NA	±20	Average RF
Chloroethane	50.0	54.9	0.3627	0.3982	9.8	NA	±20	Average RF
Chloroform	50.0	50.4	0.9326	0.9393	0.7	NA	±20	Average RF
Chloromethane	50.0	44.8	0.7799	0.699	-10.4	NA	±20	Average RF
Cyclohexane	50.0	56.1	0.352	0.3952	12.3	NA	±20	Average RF
Dibromochloromethane	50.0	46.2	0.4471	0.4128	-7.7	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	53.3	0.6785	0.7237	6.7	NA	±20	Average RF
Dichloromethane	50.0	49.3	0.525	0.5175	-1.4	NA	±20	Average RF
Ethylbenzene	50.0	45.9	0.6021	0.5529	-8.2	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	45.4	1.9369	1.7588	-9.2	NA	±20	Average RF
Methyl Acetate	50.0	47.7	0.586	0.5596	-4.5	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	51.6	1.7565	1.8121	3.2	NA	±20	Average RF

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dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137  
**Date Analyzed:** 03/13/18 21:50

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\MSVOA14\Data\031318\C5472.D\  
**Signal ID:** 1

**Calibration Date:** 1/23/2018  
**Calibration ID:** RC1800022  
**Analysis Lot:** 583391  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	51.9	0.4599	0.4774	3.8	NA	±20	Average RF
Styrene	50.0	47.7	1.2634	1.2049	-4.6	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	43.7	0.3483	0.3046	-12.5	NA	±20	Average RF
Toluene	50.0	47.5	1.5179	1.4424	-5.0	NA	±20	Average RF
Trichloroethene (TCE)	50.0	49.2	0.3824	0.376	-1.7	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	52.8	0.7236	0.7646	5.7	NA	±20	Average RF
Vinyl Chloride	50.0	50.3	0.6346	0.6384	0.6	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	47.4	0.5894	0.5586	-5.2	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	47.9	0.6065	0.5812	-4.2	NA	±20	Average RF
m,p-Xylenes	100	92.2	0.7503	0.6917	-7.8	NA	±20	Average RF
n-Butylbenzene	50.0	44.6	2.7911	2.4893	-10.8	NA	±20	Average RF
n-Propylbenzene	50.0	46.4	3.9502	3.6673	-7.2	NA	±20	Average RF
o-Xylene	50.0	46.9	0.7345	0.6887	-6.2	NA	±20	Average RF
sec-Butylbenzene	50.0	44.8	3.6346	3.2533	-10.5	NA	±20	Average RF
tert-Butylbenzene	50.0	44.4	2.5425	2.2587	-11.2	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	48.4	0.4951	0.4791	-3.2	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	47.0	0.5749	0.5405	-6.0	NA	±20	Average RF
4-Bromofluorobenzene	50.0	50.7	0.5016	0.509	1.5	NA	±20	Average RF
Dibromofluoromethane	50.0	49.8	0.3315	0.3303	-0.4	NA	±20	Average RF
Toluene-d8	50.0	50.0	1.2479	1.2489	0.1	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**583391  
**Instrument ID:**R-MS-14

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\MSVOA14\Data\031318\C5471.D	ZZZZZZZ	ZZZZZZZ	3/13/2018	21:27:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5472.D	Continuing Calibration Verification	RQ1802365-02	3/13/2018	21:50:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5473.D	Lab Control Sample	RQ1802365-03	3/13/2018	22:12:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5475.D	Method Blank	RQ1802365-04	3/13/2018	22:57:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5476.D	ZZZZZZZ	ZZZZZZZ	3/13/2018	23:19:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5477.D	ZZZZZZZ	ZZZZZZZ	3/13/2018	23:41:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5478.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	00:03:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5479.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	00:25:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5480.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	00:48:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5481.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	01:10:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5482.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	01:32:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5483.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	01:55:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5484.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	02:17:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5485.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	02:39:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5486.D	ZZZZZZZ	ZZZZZZZ	3/14/2018	03:01:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5487.D	TBLANK-1	R1802137-009	3/14/2018	03:23:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5488.D	MW-01	R1802137-001	3/14/2018	03:46:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5489.D	MW-02	R1802137-002	3/14/2018	04:08:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5490.D	MW-03	R1802137-003	3/14/2018	04:30:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5491.D	MW-04	R1802137-004	3/14/2018	04:52:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5492.D	MW-05	R1802137-005	3/14/2018	05:15:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5493.D	MW-06	R1802137-006	3/14/2018	05:37:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5494.D	MW-07	R1802137-007	3/14/2018	05:59:00	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**583391  
**Instrument ID:**R-MS-14

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\MSVOA14\Data\031318\C5495.D\	MW-08	R1802137-008	3/14/2018	06:21:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5496.D\	MW-02 MS	RQ1802365-05	3/14/2018	06:44:00	
I:\ACQUDATA\MSVOA14\Data\031318\C5497.D\	MW-02 DMS	RQ1802365-06	3/14/2018	07:06:00	



Analysis: S240C Analyst: F. Magee pH strips: 206117 Tune Method: W012318A.M  
 Date: 3/13/18 #2 Balance ID: - ResCl strips: - Run Method: ↓  
 Instr: M814 50 mL Class A used for dilution FV Syringes: 18116 / 77958 LIMS Run#: 583391  
 Data Path: j:\acq\data\lmsv03\InstID\Date

Pos.	Sample	Diln.	Diln. Prep./	RL	Tier	Vial	pH	File#	OK?	Comments
28	TUNE							C5471	Y	
29	CCV							72	Y	
30	LCS							73	Y	
31	MBLUE							74	Y	
32	MBLUE							75	Y	
33	R1802146-001	1.0		6730	1	1	4.2	76	Y	R01802365-04
34	↓	1.0			1	1	4.2	77	Y	
35	↓	1.0			1	1	4.2	78	Y	
36	R1802134-001	1.0		6691	1	1	4.2	79	Y	
37	↓	1.0			1	1	4.2	80	Y	
38	↓	1.0			1	1	4.2	81	Y	
39	R1802102-010	1.0		9893	2	1	4.2	82	Y	
40	↓	1.0			1	1	4.2	83	Y	
41	↓	1.0			1	1	4.2	84	Y	
42	↓	1.0			1	1	4.2	85	Y	
43	↓	1.0			1	1	4.2	86	Y	
44	R1802137-009	1.0		1266	4	1	4.2	87	Y	
45	↓	1.0			1	1	4.2	88	Y	
46	↓	1.0			1	1	4.2	89	Y	
47	↓	1.0			1	1	4.2	90	Y	
48	↓	1.0			1	1	4.2	91	Y	
49	↓	1.0			1	1	4.2	92	Y	
50	↓	1.0			1	1	4.2	93	Y	
51	↓	1.0			1	1	4.2	94	Y	
52	↓	1.0			1	1	4.2	95	Y	
53	↓	1.0			2	2	4.2	96	Y	
54	↓	1.0			3	3	4.2	97	Y	
55	↓	1.0						98	Y	
↓	Blue							99	Y	
↓	Blue							100	Y	

All samples = 5 mL + 5 mL combined IS/Surr. = 5 mL purged

T16 Primary 500 : 188593 - 501 Salt  
 HSL Primary : 188586 -  
 Fr Primary : 188036 -  
 OCL Primary : 186749 -

Fr Secondary 200 : 188541 - 501 Salt  
 T16 Secondary 500 : 188308 - 24 Salt  
 HSL Secondary : 188309 - 1 Salt  
 OCL Secondary : 186658 - 1 Salt

Combined IS/Surr :  
 Surrogate 50 : 188009  
 Internal Std 50 : 188008  
 Reagents:



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2.5 U	9.4	2.5	1	03/14/18 11:13	3/13/18	
2,3,4,6-Tetrachlorophenol	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
2,4,5-Trichlorophenol	3.1 U	9.4	3.1	1	03/14/18 11:13	3/13/18	
2,4,6-Trichlorophenol	1.5 U	9.4	1.5	1	03/14/18 11:13	3/13/18	
2,4-Dichlorophenol	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
2,4-Dimethylphenol	1.2 U	9.4	1.2	1	03/14/18 11:13	3/13/18	
2,4-Dinitrophenol	2.7 U	47	2.7	1	03/14/18 11:13	3/13/18	
2,4-Dinitrotoluene	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
2,6-Dinitrotoluene	1.1 U	9.4	1.1	1	03/14/18 11:13	3/13/18	
2-Chloronaphthalene	2.7 U	9.4	2.7	1	03/14/18 11:13	3/13/18	
2-Chlorophenol	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
2-Methylnaphthalene	2.5 U	9.4	2.5	1	03/14/18 11:13	3/13/18	
2-Methylphenol	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
2-Nitroaniline	2.1 U	47	2.1	1	03/14/18 11:13	3/13/18	
2-Nitrophenol	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
3,3'-Dichlorobenzidine	1.1 U	9.4	1.1	1	03/14/18 11:13	3/13/18	
3- and 4-Methylphenol Coelution	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
3-Nitroaniline	1.0 U	47	1.0	1	03/14/18 11:13	3/13/18	
4,6-Dinitro-2-methylphenol	1.6 U	47	1.6	1	03/14/18 11:13	3/13/18	
4-Bromophenyl Phenyl Ether	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
4-Chloro-3-methylphenol	2.0 U	9.4	2.0	1	03/14/18 11:13	3/13/18	
4-Chloroaniline	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
4-Chlorophenyl Phenyl Ether	2.3 U	9.4	2.3	1	03/14/18 11:13	3/13/18	
4-Nitroaniline	1.5 U	47	1.5	1	03/14/18 11:13	3/13/18	
4-Nitrophenol	1.1 U	47	1.1	1	03/14/18 11:13	3/13/18	
Acenaphthene	4.2 J	9.4	1.6	1	03/14/18 11:13	3/13/18	
Acenaphthylene	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
Acetophenone	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
Anthracene	1.5 J	9.4	1.1	1	03/14/18 11:13	3/13/18	
Atrazine	2.1 U	9.4	2.1	1	03/14/18 11:13	3/13/18	
Benz(a)anthracene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzaldehyde	2.9 U	47	2.9	1	03/14/18 11:13	3/13/18	
Benzo(a)pyrene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzo(b)fluoranthene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzo(g,h,i)perylene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Benzo(k)fluoranthene	1.1 U	9.4	1.1	1	03/14/18 11:13	3/13/18	
Biphenyl	2.5 U	9.4	2.5	1	03/14/18 11:13	3/13/18	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Bis(2-chloroethoxy)methane	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Bis(2-chloroethyl) Ether	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Bis(2-ethylhexyl) Phthalate	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Butyl Benzyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Caprolactam	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 12:50  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-02  
**Lab Code:** R1802137-002

**Units:** ug/L  
**Basis:** NA

Semivolatile Organic Compounds by GC/MS

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	4.2 J	9.4	1.2	1	03/14/18 11:13	3/13/18	
Chrysene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Di-n-butyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Di-n-octyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Dibenz(a,h)anthracene	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Dibenzofuran	2.8 J	9.4	1.7	1	03/14/18 11:13	3/13/18	
Diethyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 11:13	3/13/18	
Dimethyl Phthalate	1.7 U	9.4	1.7	1	03/14/18 11:13	3/13/18	
Fluoranthene	1.5 U	9.4	1.5	1	03/14/18 11:13	3/13/18	
Fluorene	3.3 J	9.4	1.3	1	03/14/18 11:13	3/13/18	
Hexachlorobenzene	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Hexachlorobutadiene	2.4 U	9.4	2.4	1	03/14/18 11:13	3/13/18	
Hexachlorocyclopentadiene	2.3 U	9.4	2.3	1	03/14/18 11:13	3/13/18	
Hexachloroethane	2.7 U	9.4	2.7	1	03/14/18 11:13	3/13/18	
Indeno(1,2,3-cd)pyrene	1.2 U	9.4	1.2	1	03/14/18 11:13	3/13/18	
Isophorone	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
N-Nitrosodi-n-propylamine	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
N-Nitrosodiphenylamine	1.3 U	9.4	1.3	1	03/14/18 11:13	3/13/18	
Naphthalene	10	9.4	2.2	1	03/14/18 11:13	3/13/18	
Nitrobenzene	1.4 U	9.4	1.4	1	03/14/18 11:13	3/13/18	
Pentachlorophenol (PCP)	1.9 U	47	1.9	1	03/14/18 11:13	3/13/18	
Phenanthrene	7.0 J	9.4	1.0	1	03/14/18 11:13	3/13/18	
Phenol	1.6 U	9.4	1.6	1	03/14/18 11:13	3/13/18	
Pyrene	1.2 J	9.4	1.0	1	03/14/18 11:13	3/13/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	35 - 141	03/14/18 11:13	
2-Fluorobiphenyl	89	31 - 118	03/14/18 11:13	
2-Fluorophenol	48	10 - 105	03/14/18 11:13	
Nitrobenzene-d5	90	31 - 110	03/14/18 11:13	
Phenol-d6	33	10 - 107	03/14/18 11:13	
Terphenyl-d14	99	30 - 133	03/14/18 11:13	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	2.5 U	9.4	2.5	1	03/14/18 12:38	3/13/18	
2,3,4,6-Tetrachlorophenol	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
2,4,5-Trichlorophenol	3.1 U	9.4	3.1	1	03/14/18 12:38	3/13/18	
2,4,6-Trichlorophenol	1.5 U	9.4	1.5	1	03/14/18 12:38	3/13/18	
2,4-Dichlorophenol	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
2,4-Dimethylphenol	1.2 U	9.4	1.2	1	03/14/18 12:38	3/13/18	
2,4-Dinitrophenol	2.7 U	47	2.7	1	03/14/18 12:38	3/13/18	
2,4-Dinitrotoluene	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
2,6-Dinitrotoluene	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
2-Chloronaphthalene	2.7 U	9.4	2.7	1	03/14/18 12:38	3/13/18	
2-Chlorophenol	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
2-Methylnaphthalene	2.5 U	9.4	2.5	1	03/14/18 12:38	3/13/18	
2-Methylphenol	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
2-Nitroaniline	2.1 U	47	2.1	1	03/14/18 12:38	3/13/18	
2-Nitrophenol	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
3,3'-Dichlorobenzidine	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
3- and 4-Methylphenol Coelution	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
3-Nitroaniline	1.0 U	47	1.0	1	03/14/18 12:38	3/13/18	
4,6-Dinitro-2-methylphenol	1.6 U	47	1.6	1	03/14/18 12:38	3/13/18	
4-Bromophenyl Phenyl Ether	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
4-Chloro-3-methylphenol	2.0 U	9.4	2.0	1	03/14/18 12:38	3/13/18	
4-Chloroaniline	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
4-Chlorophenyl Phenyl Ether	2.3 U	9.4	2.3	1	03/14/18 12:38	3/13/18	
4-Nitroaniline	1.5 U	47	1.5	1	03/14/18 12:38	3/13/18	
4-Nitrophenol	1.1 U	47	1.1	1	03/14/18 12:38	3/13/18	
Acenaphthene	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Acenaphthylene	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Acetophenone	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Anthracene	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
Atrazine	2.1 U	9.4	2.1	1	03/14/18 12:38	3/13/18	
Benz(a)anthracene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzaldehyde	2.9 U	47	2.9	1	03/14/18 12:38	3/13/18	
Benzo(a)pyrene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzo(b)fluoranthene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzo(g,h,i)perylene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Benzo(k)fluoranthene	1.1 U	9.4	1.1	1	03/14/18 12:38	3/13/18	
Biphenyl	2.5 U	9.4	2.5	1	03/14/18 12:38	3/13/18	
2,2'-Oxybis(1-chloropropane)	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Bis(2-chloroethoxy)methane	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Bis(2-chloroethyl) Ether	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Bis(2-ethylhexyl) Phthalate	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Butyl Benzyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Caprolactam	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1802137  
**Date Collected:** 03/09/18 15:47  
**Date Received:** 03/12/18 10:11

**Sample Name:** MW-08  
**Lab Code:** R1802137-008

**Units:** ug/L  
**Basis:** NA

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.2 U	9.4	1.2	1	03/14/18 12:38	3/13/18	
Chrysene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Di-n-butyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Di-n-octyl Phthalate	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Dibenz(a,h)anthracene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Dibenzofuran	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
Diethyl Phthalate	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Dimethyl Phthalate	1.7 U	9.4	1.7	1	03/14/18 12:38	3/13/18	
Fluoranthene	1.5 U	9.4	1.5	1	03/14/18 12:38	3/13/18	
Fluorene	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Hexachlorobenzene	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Hexachlorobutadiene	2.4 U	9.4	2.4	1	03/14/18 12:38	3/13/18	
Hexachlorocyclopentadiene	2.3 U	9.4	2.3	1	03/14/18 12:38	3/13/18	
Hexachloroethane	2.7 U	9.4	2.7	1	03/14/18 12:38	3/13/18	
Indeno(1,2,3-cd)pyrene	1.2 U	9.4	1.2	1	03/14/18 12:38	3/13/18	
Isophorone	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
N-Nitrosodi-n-propylamine	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
N-Nitrosodiphenylamine	1.3 U	9.4	1.3	1	03/14/18 12:38	3/13/18	
Naphthalene	2.2 U	9.4	2.2	1	03/14/18 12:38	3/13/18	
Nitrobenzene	1.4 U	9.4	1.4	1	03/14/18 12:38	3/13/18	
Pentachlorophenol (PCP)	1.9 U	47	1.9	1	03/14/18 12:38	3/13/18	
Phenanthrene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	
Phenol	1.6 U	9.4	1.6	1	03/14/18 12:38	3/13/18	
Pyrene	1.0 U	9.4	1.0	1	03/14/18 12:38	3/13/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	106	35 - 141	03/14/18 12:38	
2-Fluorobiphenyl	84	31 - 118	03/14/18 12:38	
2-Fluorophenol	44	10 - 105	03/14/18 12:38	
Nitrobenzene-d5	85	31 - 110	03/14/18 12:38	
Phenol-d6	30	10 - 107	03/14/18 12:38	
Terphenyl-d14	104	30 - 133	03/14/18 12:38	

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN221.D  
 Acq On : 14 Mar 2018 11:13 am  
 Operator : J.Misiurewicz  
 Sample : R1802137-002  
 Misc : 309817 8270D  
 ALS Vial : 8 Sample Multiplier: 1

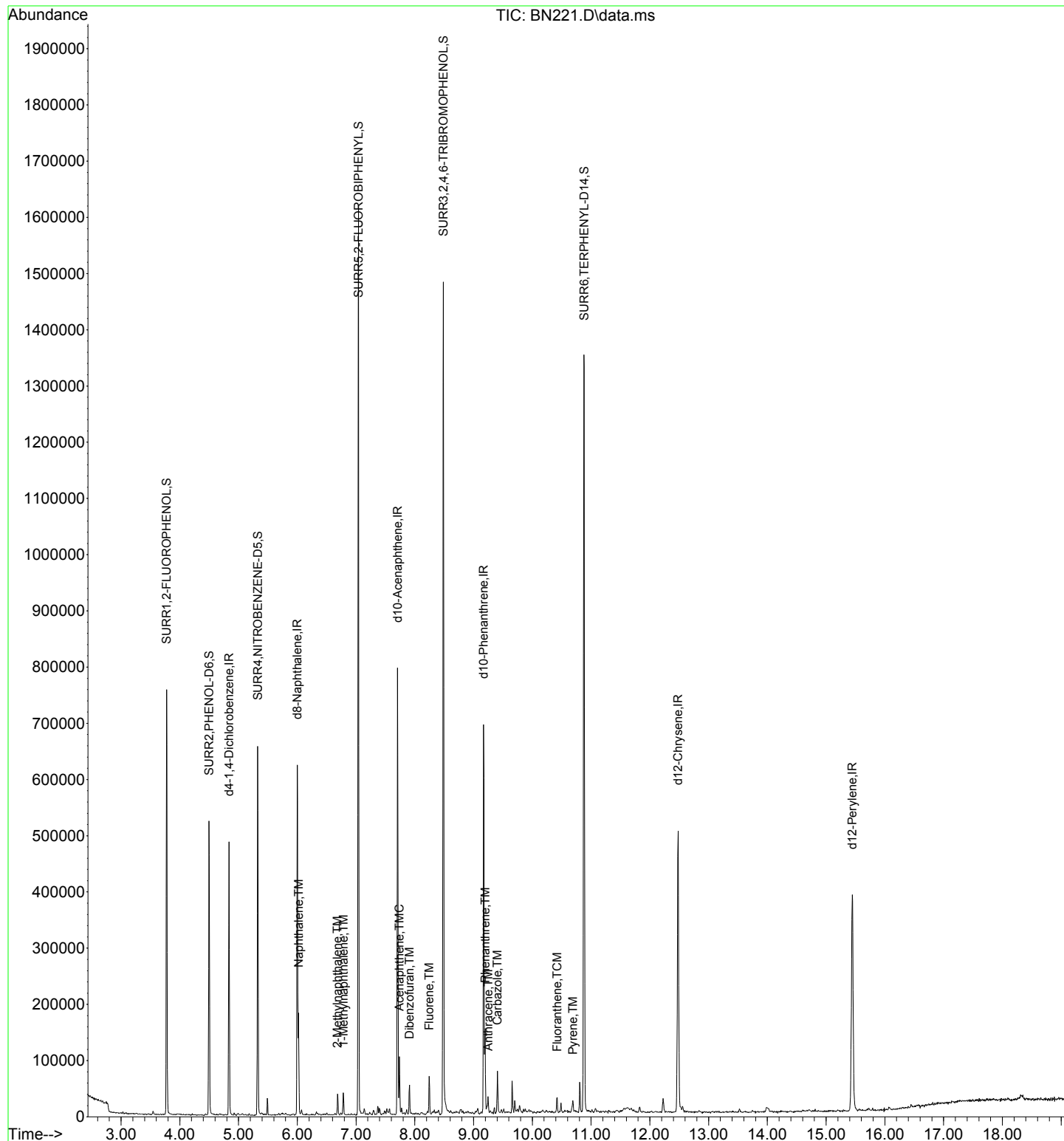
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 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.838	152	75094	40.00	ppm	0.00
33) d8-Naphthalene	5.999	136	288736	40.00	ppm	0.00
57) d10-Acenaphthene	7.705	164	163036	40.00	ppm	0.00
91) d10-Phenanthrene	9.171	188	253188	40.00	ppm	0.00
117) d12-Chrysene	12.482	240	258452	40.00	ppm	0.00
135) d12-Perylene	15.445	264	283797	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
7) SURR1,2-FLUOROPHENOL	3.774	112	240791	96.22	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery =	48.11%		
12) SURR2,PHENOL-D6	4.496	99	199283	65.72	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery =	32.86%		
34) SURR4,NITROBENZENE-D5	5.325	82	215754	90.15	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery =	90.15%		
63) SURR5,2-FLUOROBIPHENYL	7.042	172	502466	89.41	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery =	89.41%		
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	199807	212.99	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery =	106.50%		
124) SURR6,TERPHENYL-D14	10.882	244	571394	98.61	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery =	98.61%		
<b>Target Compounds</b>						
45) Naphthalene	6.020	128	77983	10.831	ppm	98
55) 2-Methylnaphthalene	6.684	142	10762	2.263	ppm	92
56) 1-Methylnaphthalene	6.785	142	11635	2.592	ppm	98
73) Acenaphthene	7.737	153	22568	4.419	ppm	90
76) Dibenzofuran	7.908	168	20024	3.001	ppm	97
83) Fluorene	8.245	166	18893	3.526	ppm	93
111) Phenanthrene	9.197	178	53144	7.445	ppm	99
112) Anthracene	9.246	178	11155	1.574	ppm	97
113) Carbazole	9.406	167	31885	4.493	ppm	96
116) Fluoranthene	10.422	202	12243	1.559	ppm	94
123) Pyrene	10.690	202	9879	1.270	ppm	95

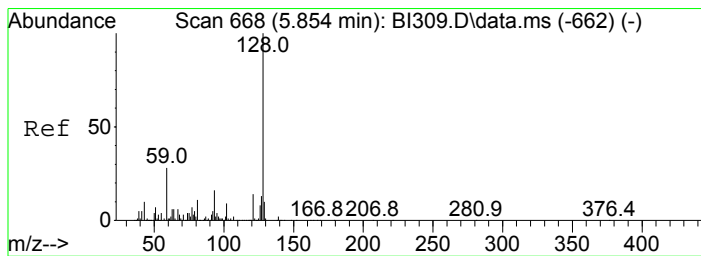
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN221.D  
Acq On : 14 Mar 2018 11:13 am  
Operator : J.Misiurewicz  
Sample : R1802137-002  
Misc : 309817 8270D  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 11:30:24 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration

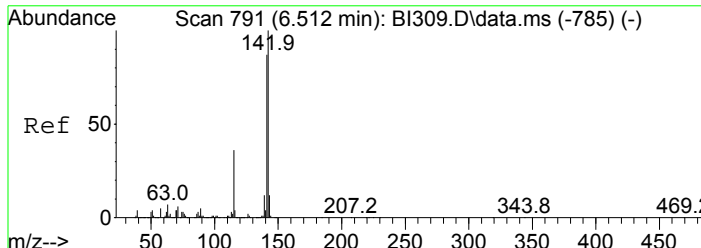
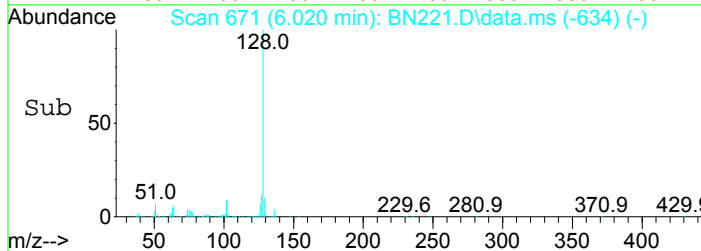
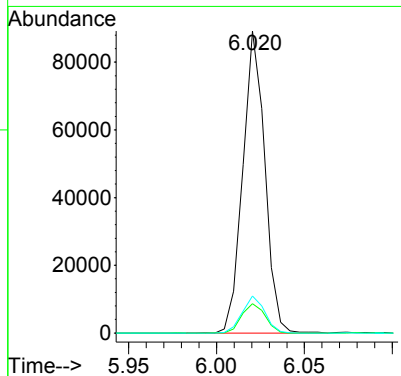
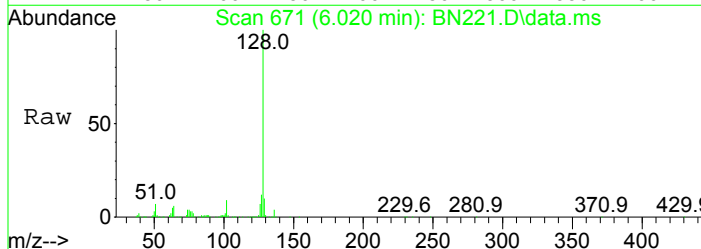






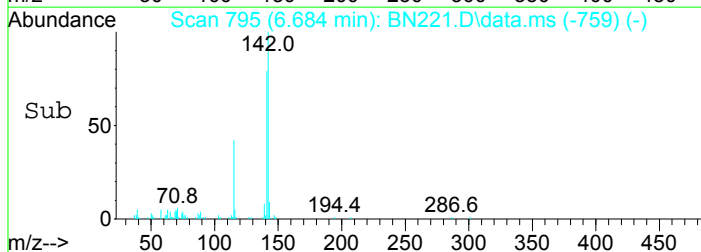
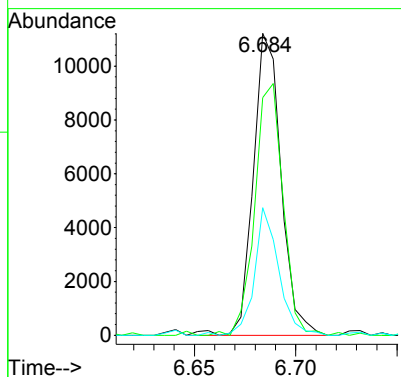
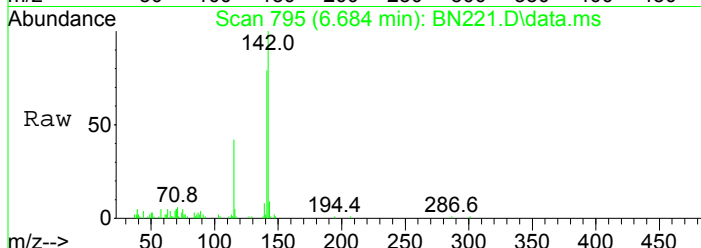
#45  
 Naphthalene  
 Concen: 10.83 ppm  
 RT: 6.020 min Scan# 671  
 Delta R.T. -0.003 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

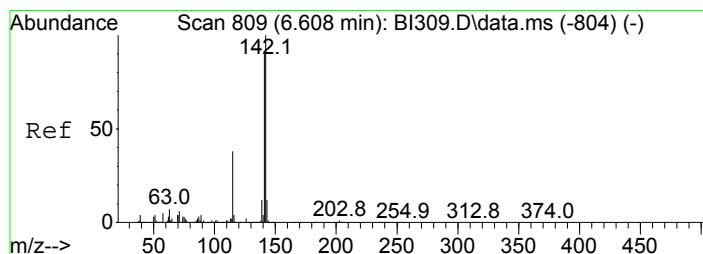
Tgt Ion	Resp	Lower	Upper
128	77983		
129	9.8	0.0	30.7
127	12.2	0.0	32.8



#55  
 2-Methylnaphthalene  
 Concen: 2.26 ppm  
 RT: 6.684 min Scan# 795  
 Delta R.T. -0.005 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

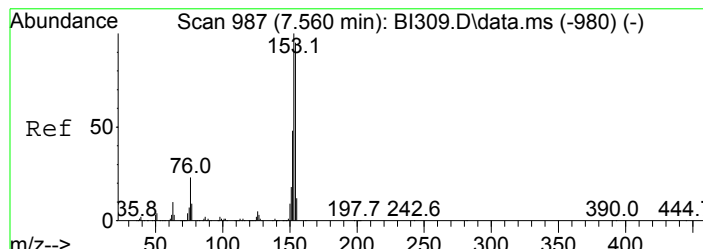
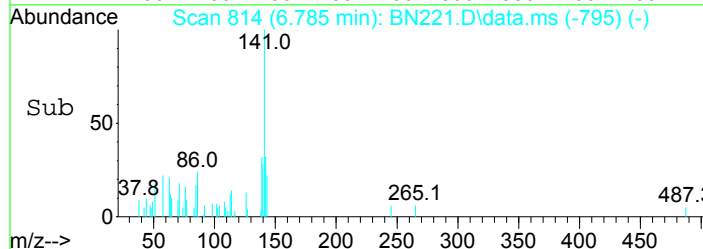
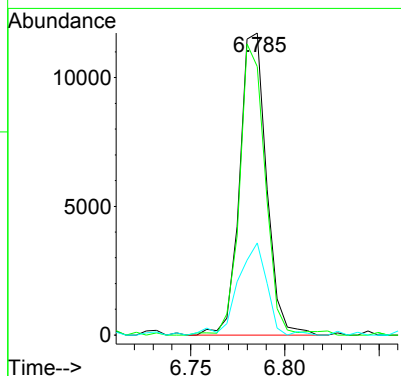
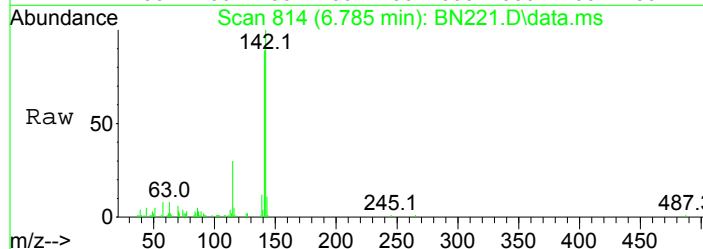
Tgt Ion	Resp	Lower	Upper
142	10762		
141	78.0	63.3	103.3
115	42.3	14.6	54.6





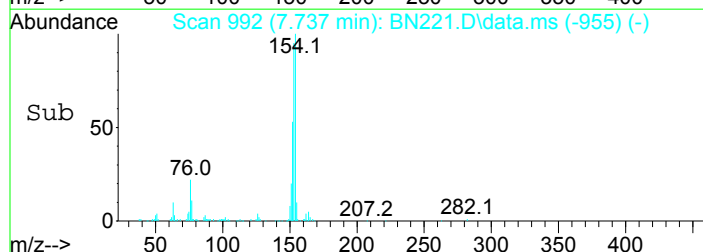
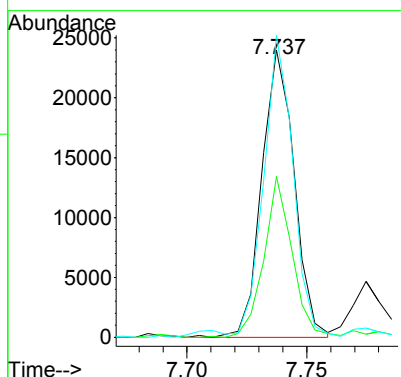
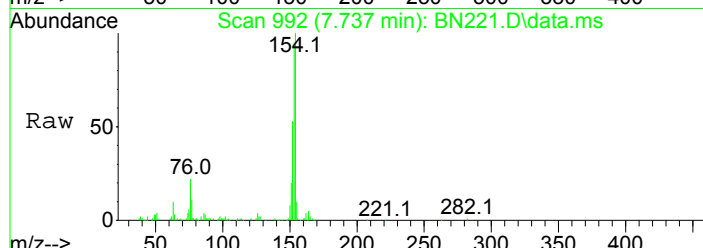
#56  
 1-Methylnaphthalene  
 Concen: 2.59 ppm  
 RT: 6.785 min Scan# 814  
 Delta R.T. -0.001 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

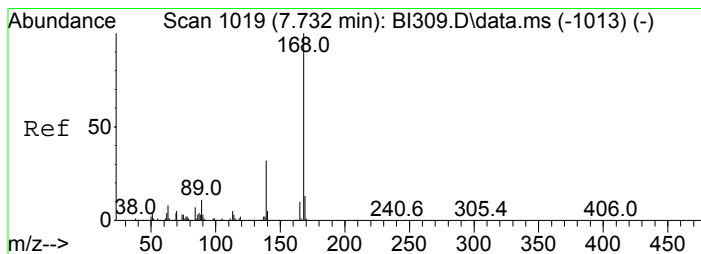
Tgt Ion	Resp	Lower	Upper
142	11635		
141	88.2	58.2	118.2
115	30.4	4.7	64.7



#73  
 Acenaphthene  
 Concen: 4.42 ppm  
 RT: 7.737 min Scan# 992  
 Delta R.T. -0.003 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

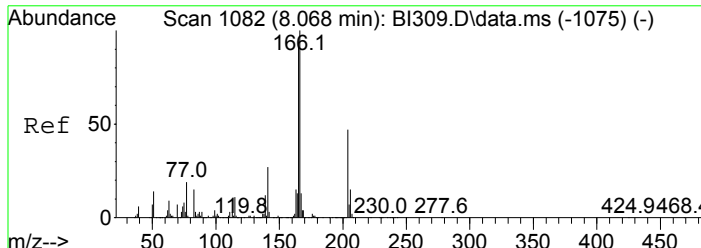
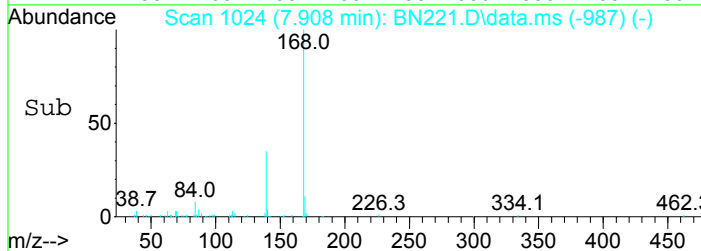
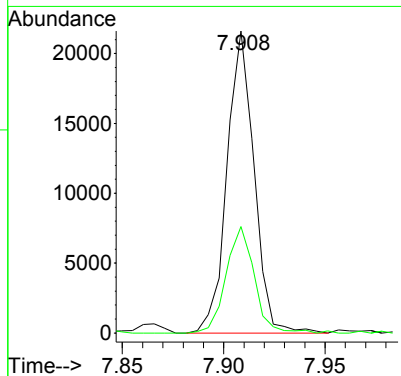
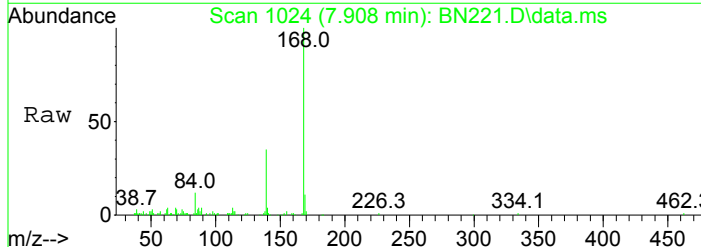
Tgt Ion	Resp	Lower	Upper
153	22568		
152	55.8	27.3	67.3
154	104.9	75.8	115.8





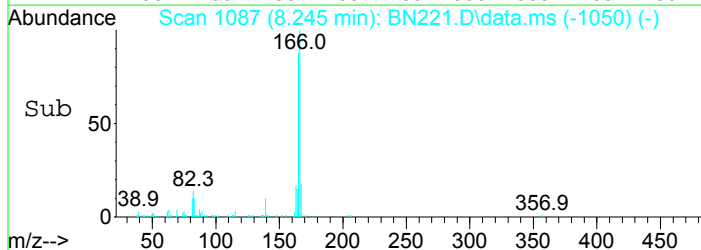
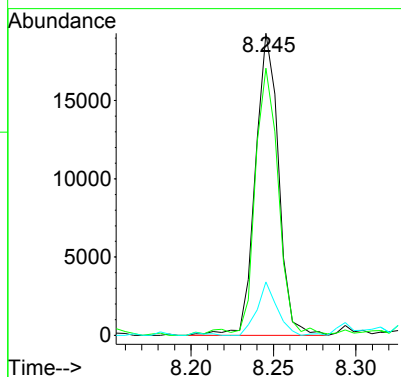
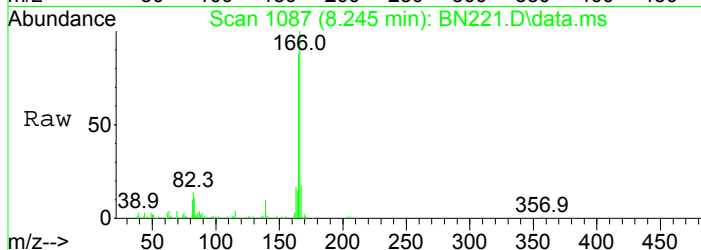
#76  
 Dibenzofuran  
 Concen: 3.00 ppm  
 RT: 7.908 min Scan# 1024  
 Delta R.T. -0.003 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

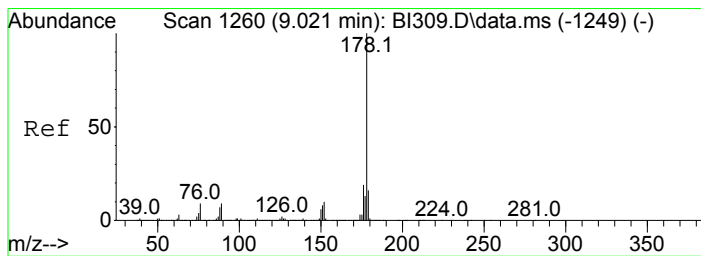
Tgt Ion	Resp	Lower	Upper
168	100		
139	35.0	16.5	56.5



#83  
 Fluorene  
 Concen: 3.53 ppm  
 RT: 8.245 min Scan# 1087  
 Delta R.T. -0.003 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

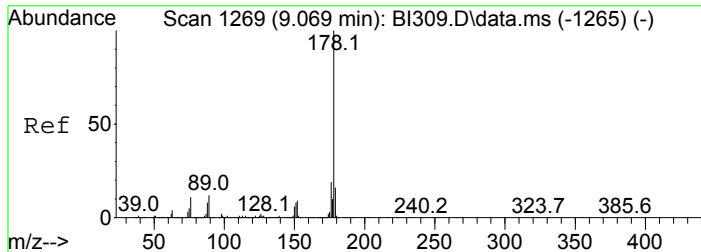
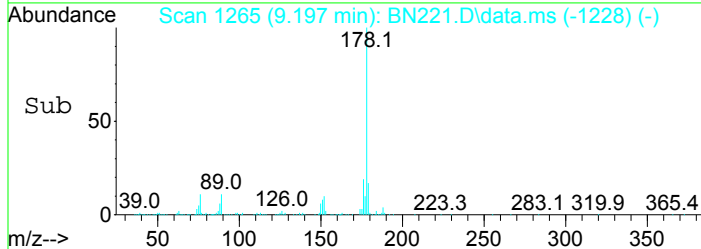
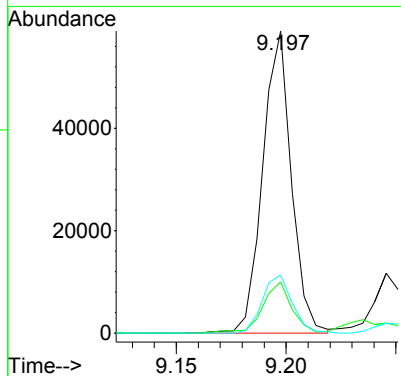
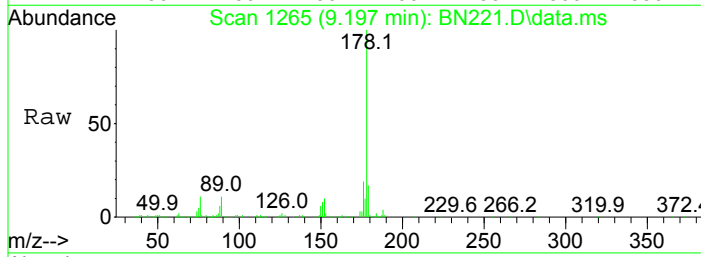
Tgt Ion	Resp	Lower	Upper
166	100		
165	88.2	64.0	124.0
167	18.4	0.0	44.2





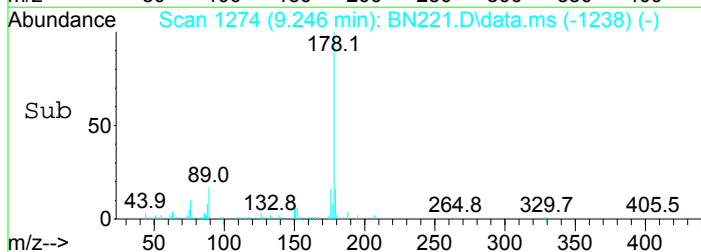
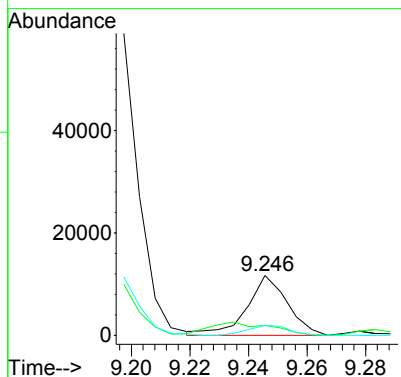
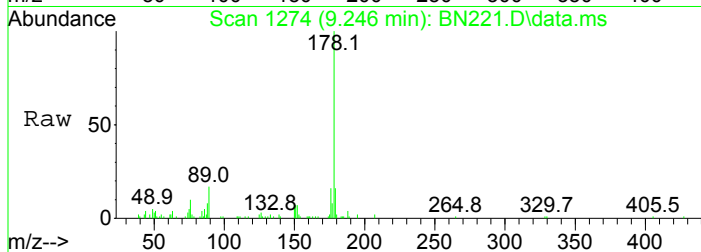
#111  
 Phenanthrene  
 Concen: 7.44 ppm  
 RT: 9.197 min Scan# 1265  
 Delta R.T. -0.004 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

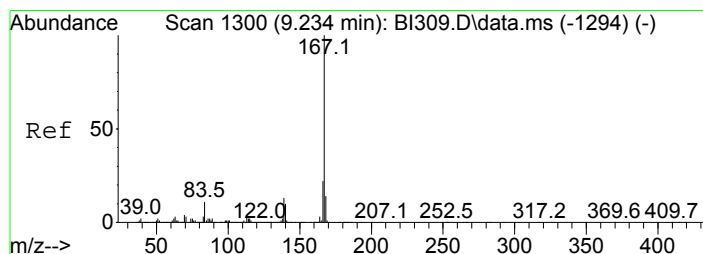
Tgt Ion	Resp	Lower	Upper
178	100		
179	16.7	0.0	35.9
176	19.2	0.0	39.1



#112  
 Anthracene  
 Concen: 1.57 ppm  
 RT: 9.246 min Scan# 1274  
 Delta R.T. -0.006 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

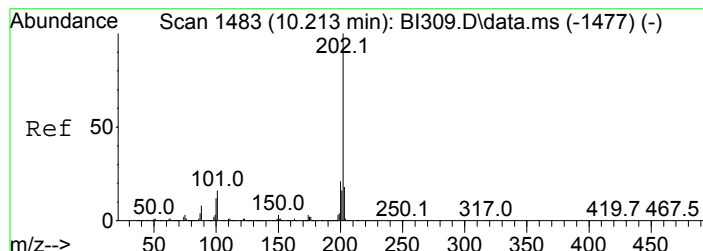
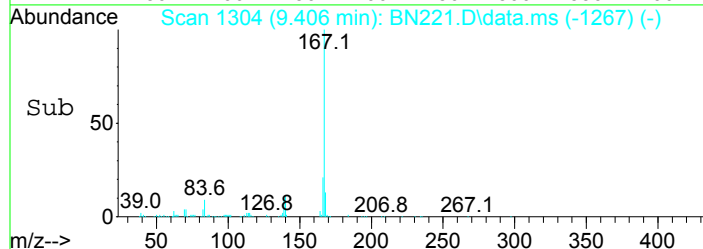
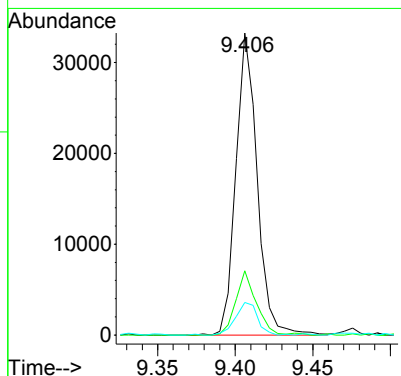
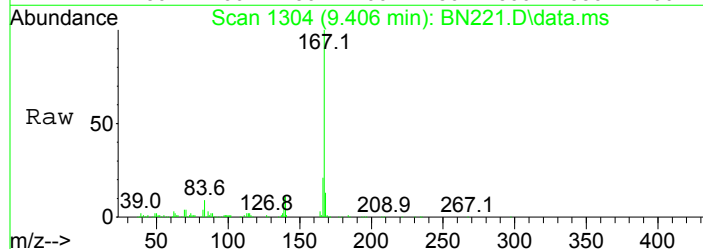
Tgt Ion	Resp	Lower	Upper
178	100		
179	15.5	0.0	35.7
176	16.0	0.0	38.0





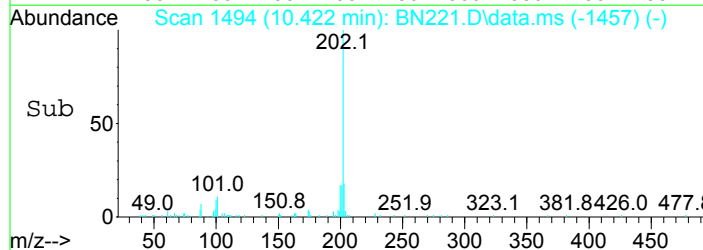
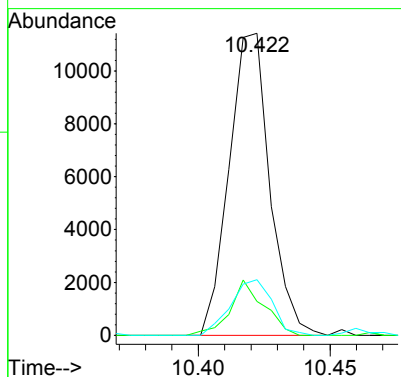
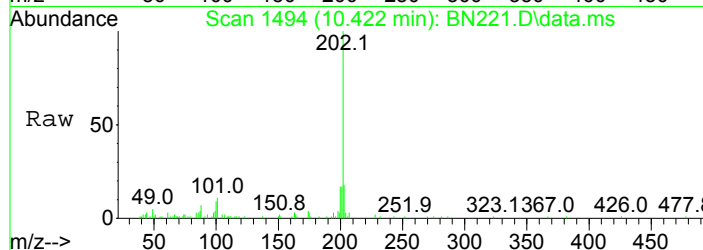
#113  
 Carbazole  
 Concen: 4.49 ppm  
 RT: 9.406 min Scan# 1304  
 Delta R.T. -0.004 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

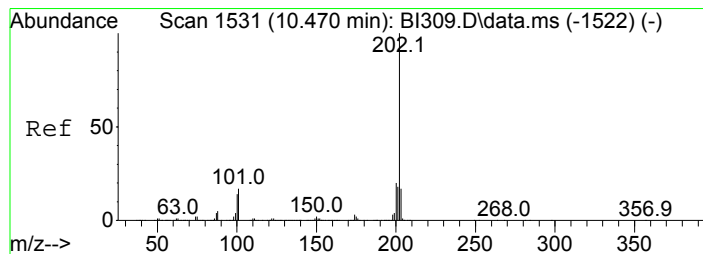
Tgt Ion	Resp	Lower	Upper
167	100		
166	21.1	0.0	40.0
139	10.8	0.0	33.6



#116  
 Fluoranthene  
 Concen: 1.56 ppm  
 RT: 10.422 min Scan# 1494  
 Delta R.T. -0.002 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

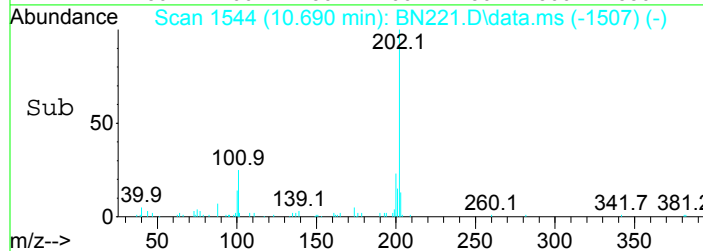
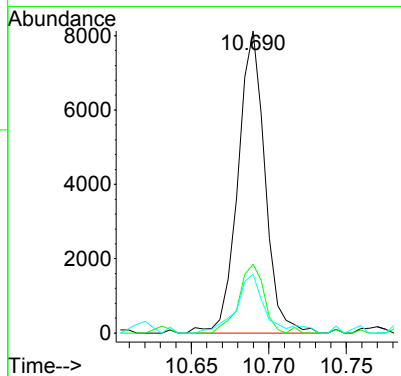
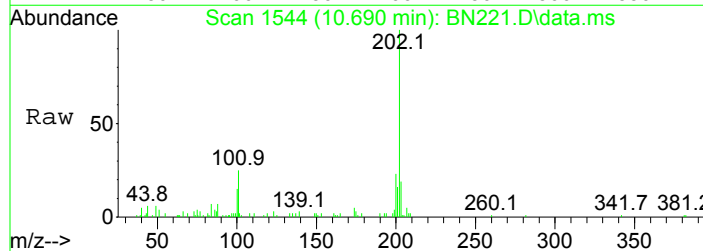
Tgt Ion	Resp	Lower	Upper
202	100		
101	11.2	0.0	35.5
203	18.4	0.0	37.5





#123  
 Pyrene  
 Concen: 1.27 ppm  
 RT: 10.690 min Scan# 1544  
 Delta R.T. -0.004 min  
 Lab File: BN221.D  
 Acq: 14 Mar 2018 11:13 am

Tgt Ion	Resp	Lower	Upper
202	100		
200	22.7	0.0	40.0
203	19.5	0.0	37.4



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN224.D  
 Acq On : 14 Mar 2018 12:38 pm  
 Operator : J.Misiurewicz  
 Sample : R1802137-008  
 Misc : 309817 8270D  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 15 11:30:41 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

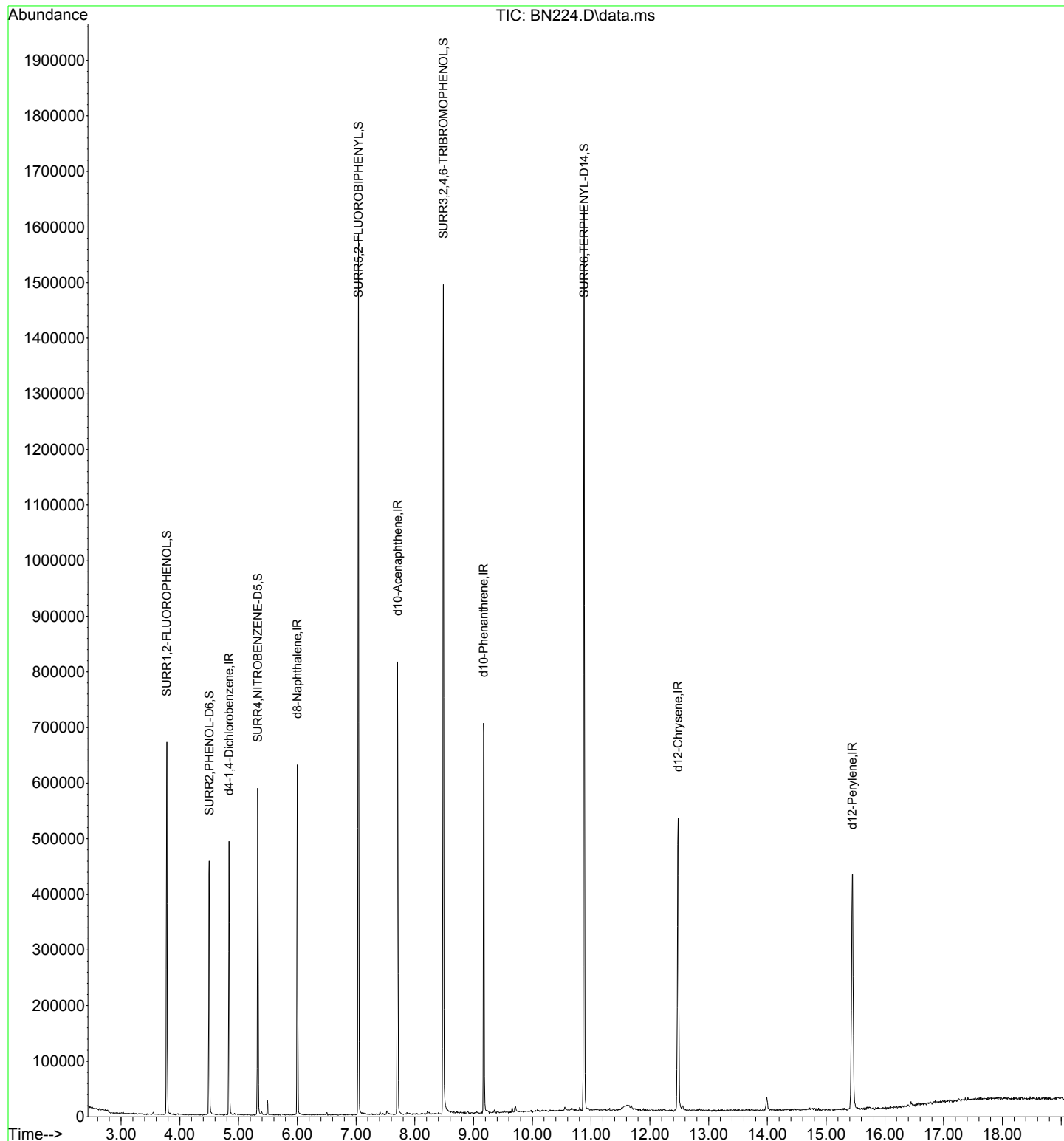
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	76793	40.00	ppm	0.00
33) d8-Naphthalene	5.999	136	292219	40.00	ppm	0.00
57) d10-Acenaphthene	7.705	164	168608	40.00	ppm	0.00
91) d10-Phenanthrene	9.171	188	267067	40.00	ppm	0.00
117) d12-Chrysene	12.482	240	276300	40.00	ppm	0.00
135) d12-Perylene	15.445	264	301747	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.779	112	223645	87.39	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery =	43.70%		
12) SURR2,PHENOL-D6	4.501	99	183878	59.30	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery =	29.65%		
34) SURR4,NITROBENZENE-D5	5.325	82	205568	84.87	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery =	84.87%		
63) SURR5,2-FLUOROBIPHENYL	7.042	172	491060	84.49	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery =	84.49%		
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	206586	212.94	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery =	106.47%		
124) SURR6,TERPHENYL-D14	10.882	244	644209	104.00	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery =	104.00%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN224.D  
Acq On : 14 Mar 2018 12:38 pm  
Operator : J.Misiurewicz  
Sample : R1802137-008  
Misc : 309817 8270D  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 15 11:30:41 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN218.D  
 Acq On : 14 Mar 2018 9:48 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-01  
 Misc : 309817 8270D BLK  
 ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 25000 Area counts  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Title : 8270 BNA ANALYSIS

Signal : TIC: BN218.D\data.ms

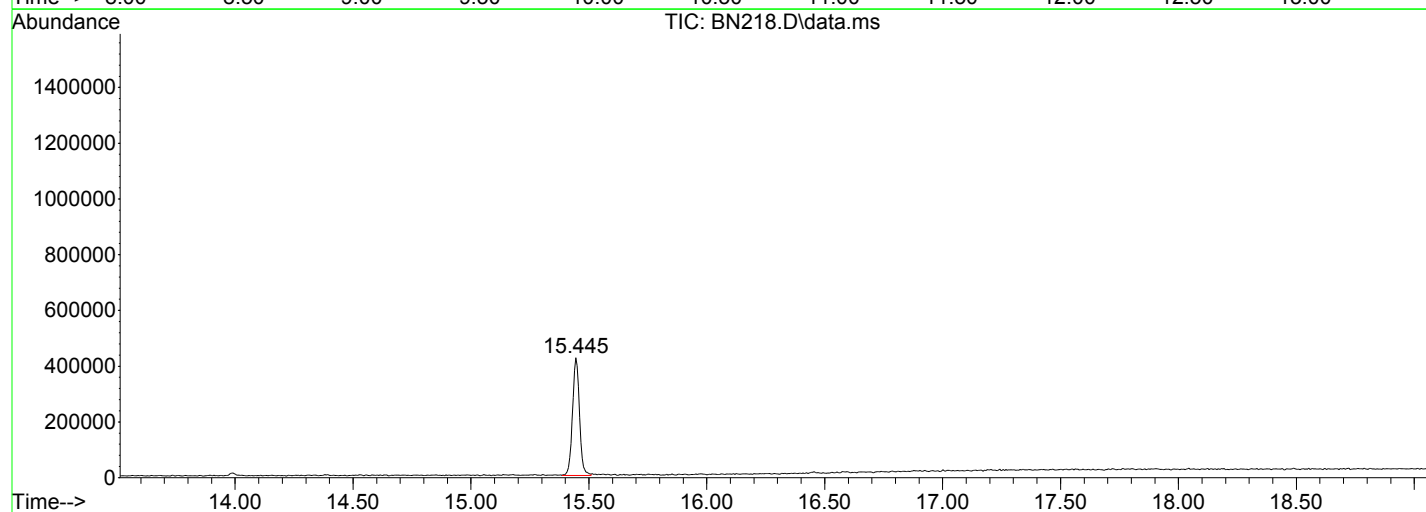
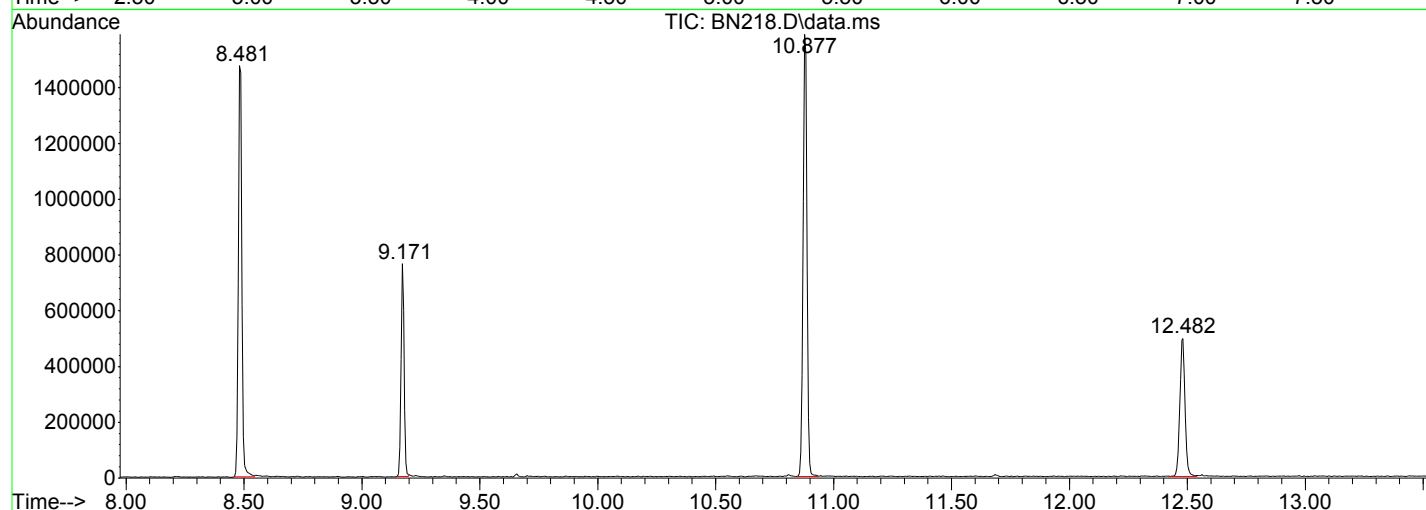
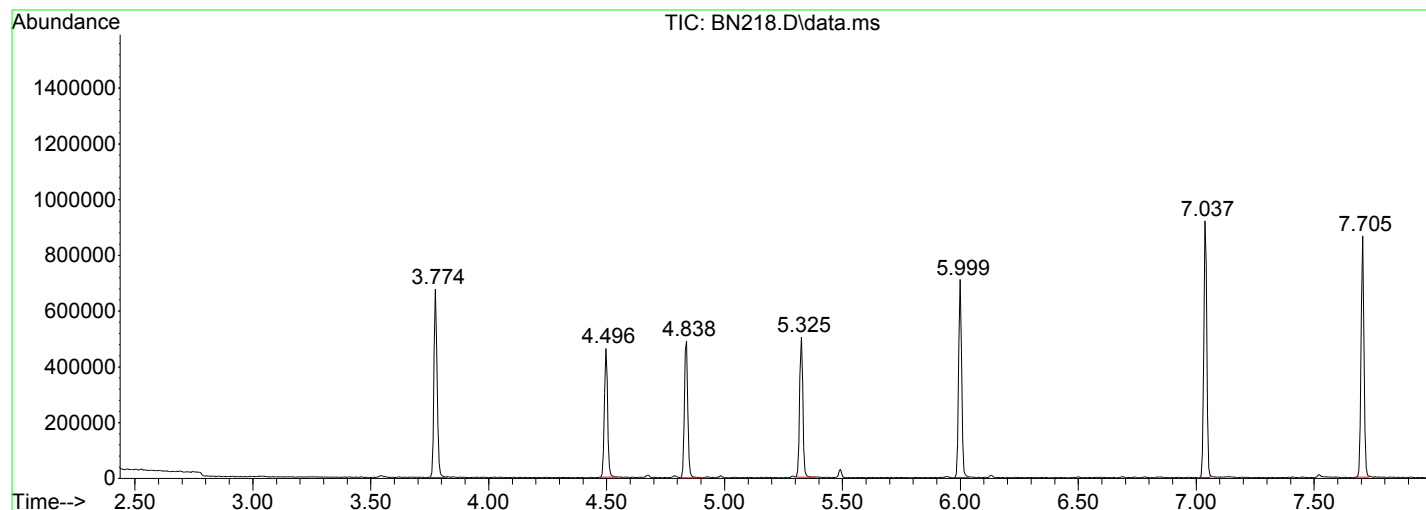
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.774	246	251	260	rBV	676632	645809	35.94%	6.510%
2	4.496	382	386	394	rVB	462004	452145	25.16%	4.558%
3	4.838	445	450	464	rVB	489925	481302	26.78%	4.852%
4	5.325	537	541	551	rVB	503519	478366	26.62%	4.822%
5	5.999	663	667	674	rBV	710592	629946	35.06%	6.350%
6	7.037	857	861	865	rBV	920638	795667	44.28%	8.020%
7	7.705	981	986	991	rBV	865680	793057	44.13%	7.994%
8	8.481	1127	1131	1143	rBV	1475052	1499232	83.43%	15.112%
9	9.171	1256	1260	1265	rBV	763227	706196	39.30%	7.118%
10	10.877	1573	1579	1590	rBV	1586830	1796959	100.00%	18.113%
11	12.482	1869	1879	1890	rBV2	494502	775866	43.18%	7.821%
12	15.445	2422	2433	2445	rBV2	422688	866041	48.19%	8.730%

Sum of corrected areas: 9920586

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN218.D  
Acq On : 14 Mar 2018 9:48 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-01  
Misc : 309817 8270D BLK  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS

TIC Library : C:\DATABASE\NIST08.L  
TIC Integration Parameters: TEBINT.P



Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN218.D  
Acq On : 14 Mar 2018 9:48 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-01  
Misc : 309817 8270D BLK  
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS

TIC Library : C:\DATABASE\NIST08.L  
TIC Integration Parameters: TEBINT.P

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN218.D  
 Acq On : 14 Mar 2018 9:48 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-01  
 Misc : 309817 8270D BLK  
 ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS

TIC Library : C:\DATABASE\NIST08.L  
 TIC Integration Parameters: TEBINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

---

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN218.D  
 Acq On : 14 Mar 2018 9:48 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-01  
 Misc : 309817 8270D BLK  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 15 11:30:08 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

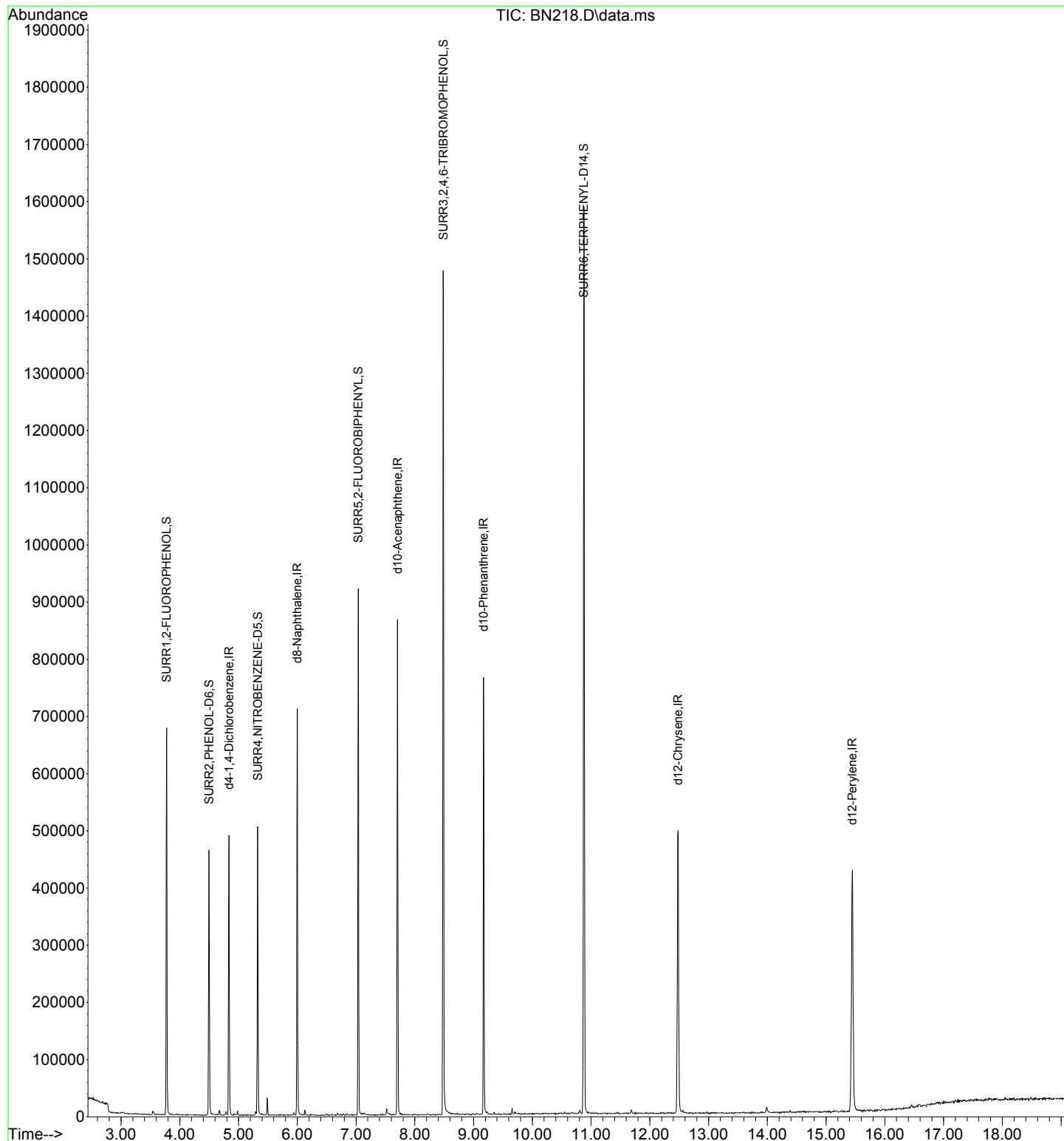
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	81795	40.00	ppm	0.00
33) d8-Naphthalene	5.999	136	311403	40.00	ppm	0.00
57) d10-Acenaphthene	7.705	164	175665	40.00	ppm	0.00
91) d10-Phenanthrene	9.171	188	272189	40.00	ppm	0.00
117) d12-Chrysene	12.482	240	262631	40.00	ppm	0.00
135) d12-Perylene	15.445	264	295914	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.774	112	208774	76.59	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery =	38.30%		
12) SURR2,PHENOL-D6	4.496	99	177727	53.81	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery =	26.91%		
34) SURR4,NITROBENZENE-D5	5.325	82	167777	65.00	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery =	65.00%		
63) SURR5,2-FLUOROBIPHENYL	7.037	172	275517	45.50	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery =	45.50%		
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	207198	204.99	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery =	102.50%		
124) SURR6,TERPHENYL-D14	10.877	244	650979	110.56	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery =	110.56%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN218.D  
Acq On : 14 Mar 2018 9:48 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-01  
Misc : 309817 8270D BLK  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 15 11:30:08 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN218.D  
 Acq On : 14 Mar 2018 9:48 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-01  
 Misc : 309817 8270D BLK  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 15 11:57:46 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\HEXA031418D.M  
 Quant Title : 8270 EXP MIX2 ANALYSIS  
 QLast Update : Thu Mar 15 11:29:23 2018  
 Response via : Initial Calibration

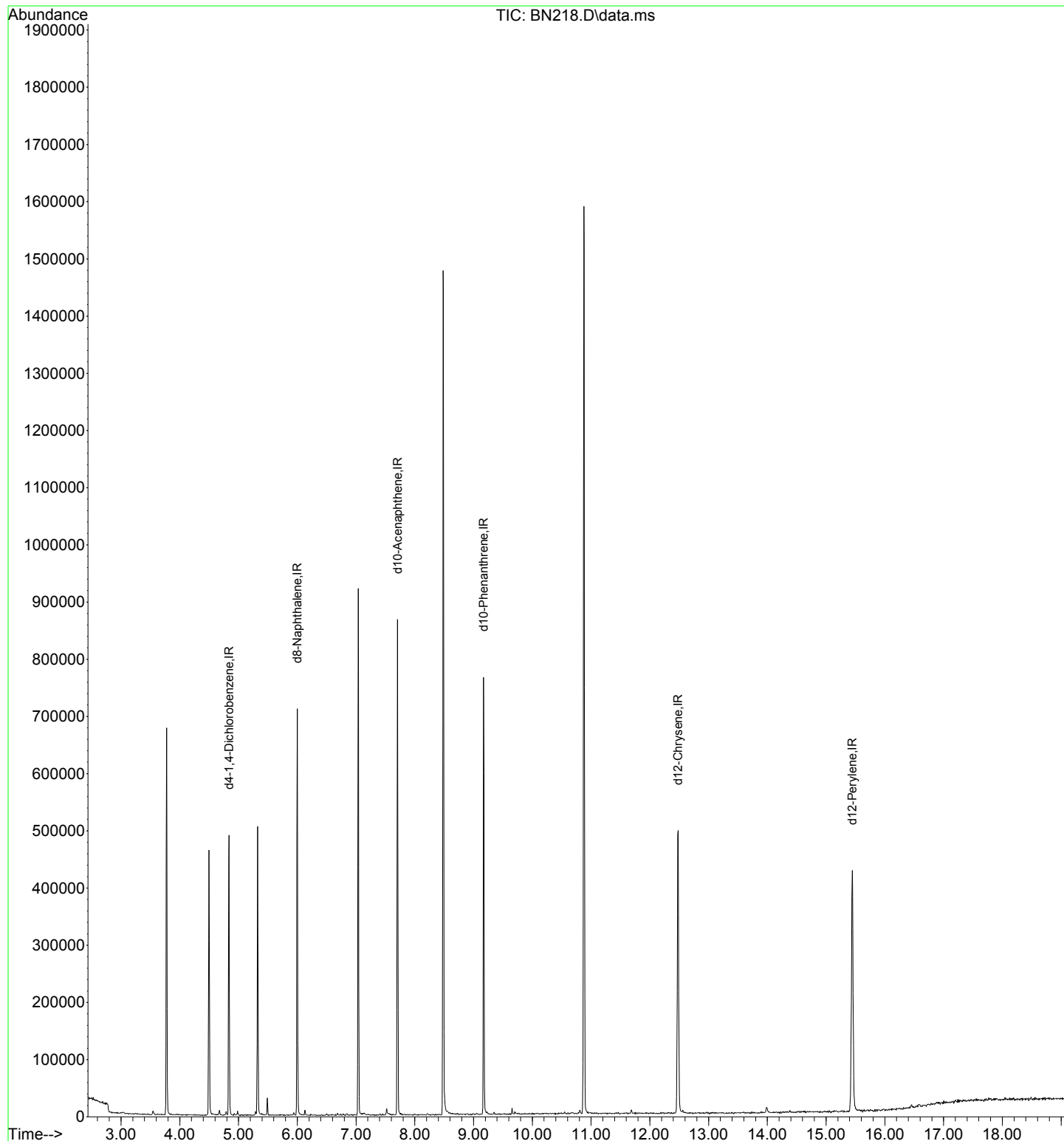
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	81795	40.00	ppm	0.00
2) d8-Naphthalene	5.999	136	313604	40.00	ppm	0.00
3) d10-Acenaphthene	7.705	164	175665	40.00	ppm	0.00
4) d10-Phenanthrene	9.171	188	272189	40.00	ppm	0.00
5) d12-Chrysene	12.482	240	262631	40.00	ppm	0.00
7) d12-Perylene	15.445	264	295845	40.00	ppm	-0.02

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN218.D  
Acq On : 14 Mar 2018 9:48 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-01  
Misc : 309817 8270D BLK  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 15 11:57:46 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\HEXA031418D.M  
Quant Title : 8270 EXP MIX2 ANALYSIS  
QLast Update : Thu Mar 15 11:29:23 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN219.D  
 Acq On : 14 Mar 2018 10:16 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-02  
 Misc : 309817 8270D LCS  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 11:30:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.838	152	82021	40.00	ppm	0.00	
33) d8-Naphthalene	5.999	136	324728	40.00	ppm	0.00	
57) d10-Acenaphthene	7.705	164	177602	40.00	ppm	0.00	
91) d10-Phenanthrene	9.176	188	278127	40.00	ppm	0.00	
117) d12-Chrysene	12.487	240	302030	40.00	ppm	0.00	
135) d12-Perylene	15.450	264	315542	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.779	112	306882	112.27	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	56.14%	
12) SURR2,PHENOL-D6	4.501	99	267956	80.91	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	40.45%	
34) SURR4,NITROBENZENE-D5	5.331	82	238230	88.51	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	88.51%	
63) SURR5,2-FLUOROBIPHENYL	7.042	172	538616	87.98	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	87.98%	
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	210239	205.73	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	102.86%	
124) SURR6,TERPHENYL-D14	10.877	244	709669	104.80	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	104.80%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.854	79	131150	50.487	ppm		98
3) N-Nitrosodimethylamine	2.817	74	91225	69.858	ppm		93
10) Benzaldehyde	4.475	106	163513	93.079	ppm		96
11) Aniline	4.555	93	325758	69.407	ppm		96
13) Phenol	4.512	94	140494	42.738	ppm		96
14) bis(2-Clethyl)Ether	4.598	93	209411	87.640	ppm		95
16) 2-Chlorophenol	4.657	128	242530	85.557	ppm		98
17) 1,3-Diclbzene	4.790	146	175684	57.813	ppm		98
18) 1,4-Dichlorobenzene	4.854	146	182239	57.795	ppm		98
19) 1,2-Diclbzene	4.988	146	185542	62.119	ppm		98
20) Benzyl Alcohol	4.945	79	181753	87.582	ppm		98
21) 1-Methyl-2-pyrrolidinone	5.026	99	68844	41.364	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.058	45	245290	100.552	ppm		99
23) 2-Methylphenol	5.042	108	204743	83.235	ppm		97
24) 3+4-Methylphenol	5.175	108	197835	75.887	ppm		87
25) Acetophenone	5.186	105	664576	179.403	ppm		93
26) N-Nitroso-Di-n-propyla...	5.181	70	166065	90.515	ppm	#	78
30) Hexachloroethane	5.288	117	62644	51.408	ppm		98
32) Alpha-terpinol	6.026	121	102763	103.779	ppm		86
35) Nitrobenzene	5.347	77	221373	81.239	ppm		90
37) Isophorone	5.566	82	443498	92.465	ppm		99
38) 2-Nitrophenol	5.641	139	141588	95.844	ppm		96
39) Benzoic Acid	5.774	105	200366	104.594	ppm		92
40) 2,4-Dimethylphenol	5.673	107	258823	96.282	ppm		95
41) bis(-2-Chloroethoxy)Me...	5.758	93	287582	97.575	ppm		98
42) 2,4-Dichlorophenol	5.865	162	211823	96.587	ppm		97
44) 1,2,4-Trichlorobenzene	5.946	180	187340	73.974	ppm		99
45) Naphthalene	6.021	128	629249	77.707	ppm		98
46) 4-Chloroaniline	6.074	127	300257	91.037	ppm		98
48) Hexachlorobutadiene	6.133	225	96698	66.983	ppm		92
50) 4-Chloro-3-methylphenol	6.534	107	227913	102.988	ppm		97
52) Caprolactam	6.422	113	26396	32.063	ppm		92
55) 2-Methylnaphthalene	6.689	142	464396	86.809	ppm		96

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN219.D  
 Acq On : 14 Mar 2018 10:16 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-02  
 Misc : 309817 8270D LCS  
 ALS Vial : 6 Sample Multiplier: 1

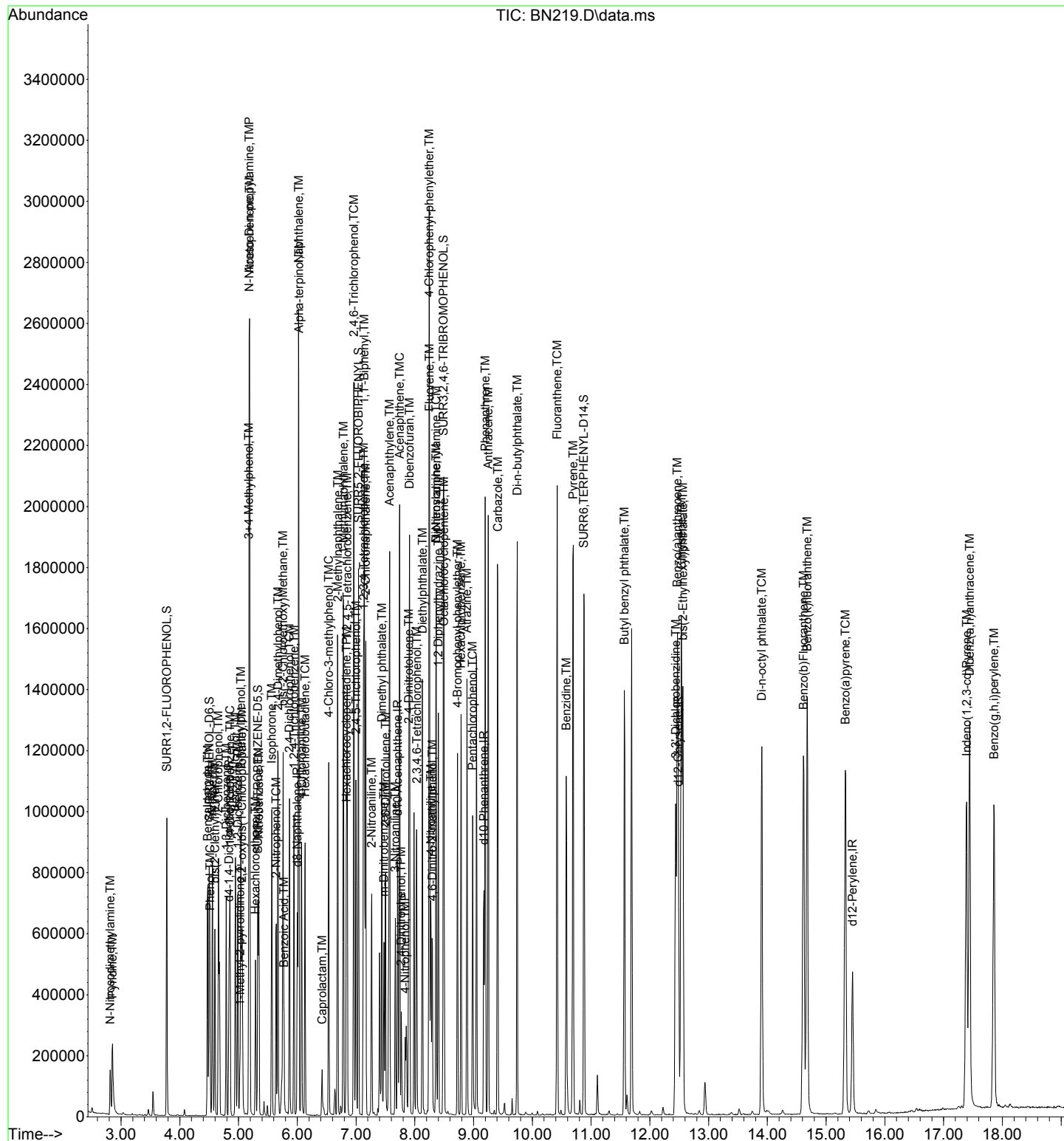
Quant Time: Mar 15 11:30:13 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1-Methylnaphthalene	6.785	142	464385	91.979	ppm	99
58) Hexachlorocyclopentadiene	6.833	237	118923	76.529	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.850	216	233899	88.518	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.128	216	238151	94.038	ppm	98
61) 2,4,6-Trichlorophenol	6.962	196	164197	102.587	ppm	99
62) 2,4,5-Trichlorophenol	6.999	196	174868	104.753	ppm	98
65) 1,1'-Biphenyl	7.138	154	652682	97.137	ppm	99
66) 2-Chloronaphthalene	7.165	162	471972	91.247	ppm	98
67) 2-Nitroaniline	7.267	65	123048	95.852	ppm	90
69) m-Dinitrobenzene	7.475	168	81794	90.018	ppm	90
70) Acenaphthylene	7.572	152	815199	99.894	ppm	99
71) Dimethyl phthalate	7.438	163	485787	80.993	ppm	100
72) 2,6-Dinitrotoluene	7.502	165	123476	93.714	ppm	83
73) Acenaphthene	7.743	153	515715	92.696	ppm	98
74) 3-Nitroaniline	7.668	138	113717	76.679	ppm	98
75) 2,4-Dinitrophenol	7.769	184	56643	89.322	ppm	90
76) Dibenzofuran	7.909	168	711211	97.860	ppm	99
77) 2,4-Dinitrotoluene	7.898	165	169613	97.073	ppm	96
78) 4-Nitrophenol	7.834	65	48560	50.776	ppm	92
82) 2,3,4,6-Tetrachlorophenol	8.032	232	126283	100.154	ppm	96
83) Fluorene	8.251	166	515098	88.244	ppm	99
84) 4-Chlorophenyl-phenyle...	8.246	204	255518	97.488	ppm	93
85) Diethylphthalate	8.128	149	513480	85.035	ppm	99
86) 4-Nitroaniline	8.272	138	149736	88.536	ppm	97
90) Octachlorocyclopentene	8.497	307	110724	108.733	ppm	98
93) 4,6-Dinitro-2-methylph...	8.299	198	98406	97.222	ppm	97
94) Diphenylamine	8.363	169	439263	101.527	ppm	99
95) 1,2 Diphenylhydrazine	8.401	77	476204	89.779	ppm	97
96) N-Nitrosodiphenylamine	8.363	169	439263	101.529	ppm	99
101) 4-Bromophenyl-phenylether	8.727	248	142287	91.203	ppm	96
102) Hexachlorobenzene	8.786	284	182777	94.827	ppm	97
104) Atrazine	8.887	215	89237	127.297	ppm	95
105) Pentachlorophenol	8.984	266	125197	106.718	ppm	96
111) Phenanthrene	9.198	178	770255	98.225	ppm	99
112) Anthracene	9.251	178	786505	101.049	ppm	98
113) Carbazole	9.412	167	788714	101.166	ppm	99
114) Di-n-butylphthalate	9.743	149	958680	97.337	ppm	100
116) Fluoranthene	10.422	202	890867	103.248	ppm	98
122) Benzidine	10.578	184	496825	84.618	ppm	99
123) Pyrene	10.695	202	926940	101.966	ppm	99
128) Butyl benzyl phthalate	11.567	149	452308	93.669	ppm	94
131) 3,3'-Dichlorobenzidine	12.439	252	314345	92.897	ppm	98
132) Benzo(a)anthracene	12.471	228	921920	101.955	ppm	99
133) Chrysene	12.535	228	886423	103.705	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.562	149	654610	98.520	ppm	99
136) Di-n-octyl phthalate	13.904	149	1122953	100.922	ppm	99
138) Benzo(b)Fluoranthene	14.616	252	928779	97.009	ppm	96
139) Benzo(k)fluoranthene	14.680	252	946585	103.880	ppm	99
140) Benzo(a)pyrene	15.327	252	865189	105.860	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.392	276	762107	99.391	ppm	94
143) Dibenz(a,h)anthracene	17.445	278	922222	109.894	ppm	97
144) Benzo(g,h,i)perylene	17.857	276	772177	101.353	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN219.D  
Acq On : 14 Mar 2018 10:16 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-02  
Misc : 309817 8270D LCS  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 11:30:13 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN219.D  
 Acq On : 14 Mar 2018 10:16 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-02  
 Misc : 309817 8270D LCS  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 11:57:49 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\HEXA031418D.M  
 Quant Title : 8270 EXP MIX2 ANALYSIS  
 QLast Update : Thu Mar 15 11:29:23 2018  
 Response via : Initial Calibration

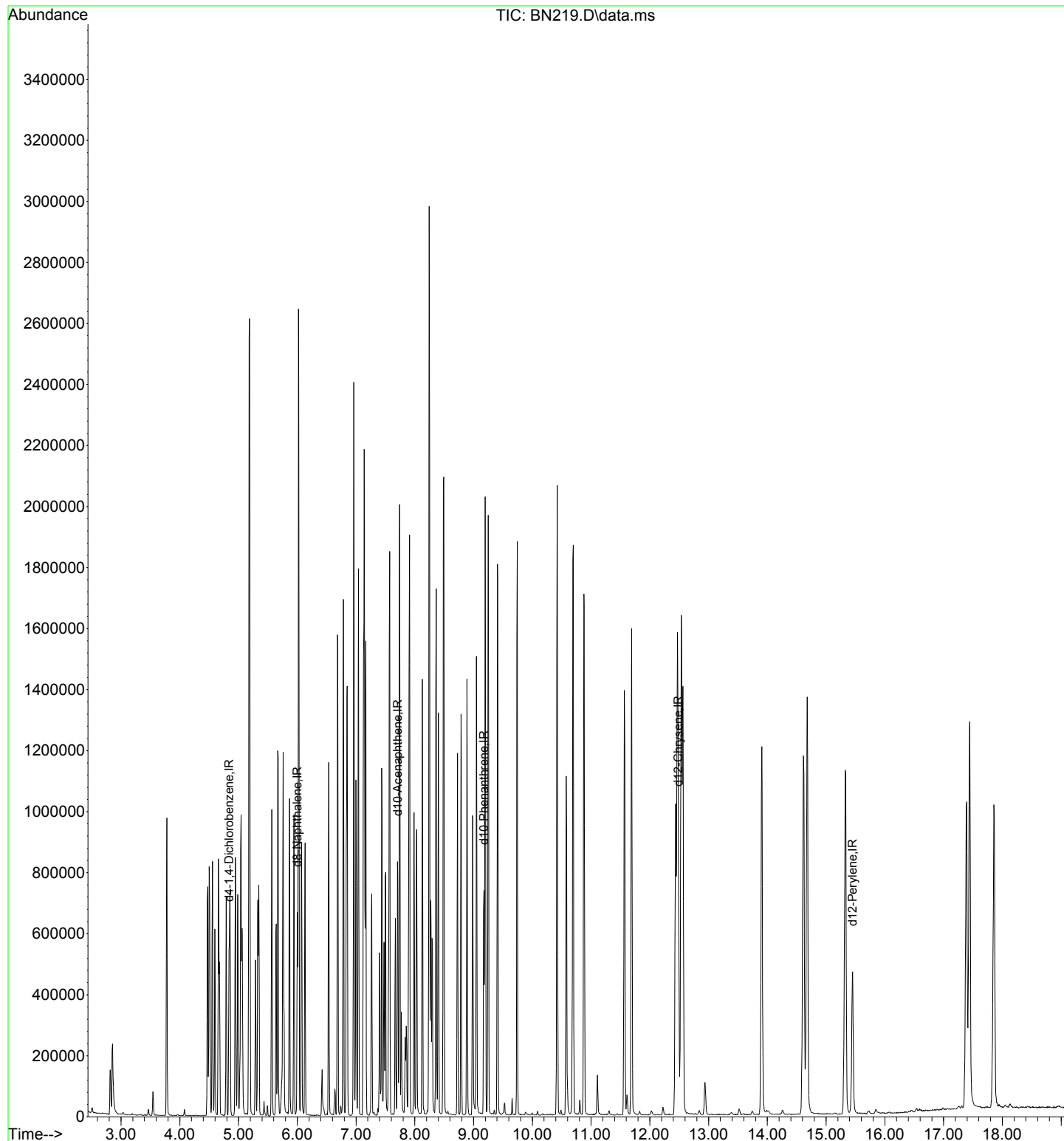
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	82021	40.00	ppm	0.00
2) d8-Naphthalene	5.999	136	395935	40.00	ppm	0.00
3) d10-Acenaphthene	7.705	164	177602	40.00	ppm	0.00
4) d10-Phenanthrene	9.176	188	278127	40.00	ppm	0.00
5) d12-Chrysene	12.487	240	302030	40.00	ppm	0.00
7) d12-Perylene	15.450	264	315984	40.00	ppm	-0.01

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN219.D  
Acq On : 14 Mar 2018 10:16 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-02  
Misc : 309817 8270D LCS  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 11:57:49 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\HEXA031418D.M  
Quant Title : 8270 EXP MIX2 ANALYSIS  
QLast Update : Thu Mar 15 11:29:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN220.D  
 Acq On : 14 Mar 2018 10:44 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-03  
 Misc : 309817 8270D LCSD  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 11:30:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) d4-1,4-Dichlorobenzene	4.838	152	73757	40.00	ppm	0.00
33) d8-Naphthalene	6.005	136	306568	40.00	ppm	0.00
57) d10-Acenaphthene	7.705	164	166963	40.00	ppm	0.00
91) d10-Phenanthrene	9.176	188	267174	40.00	ppm	0.00
117) d12-Chrysene	12.487	240	291993	40.00	ppm	0.00
135) d12-Perylene	15.450	264	301846	40.00	ppm	0.00
<b>System Monitoring Compounds</b>						
7) SURR1,2-FLUOROPHENOL	3.779	112	268837	109.37	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	54.69%
12) SURR2,PHENOL-D6	4.502	99	227145	76.27	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	38.13%
34) SURR4,NITROBENZENE-D5	5.331	82	208350	81.99	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	81.99%
63) SURR5,2-FLUOROBIPHENYL	7.042	172	448572	77.94	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	77.94%
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	180943	188.35	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	94.17%
124) SURR6,TERPHENYL-D14	10.882	244	627084	95.79	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	95.79%
<b>Target Compounds</b>						
						Qvalue
2) Pyridine	2.854	79	132579	56.755	ppm	99
3) N-Nitrosodimethylamine	2.817	74	77210	65.751	ppm	96
10) Benzaldehyde	4.475	106	142739	90.357	ppm	92
11) Aniline	4.555	93	278568	66.003	ppm	97
13) Phenol	4.512	94	123292	41.707	ppm	96
14) bis(2-Clethyl)Ether	4.598	93	188591	87.770	ppm	94
16) 2-Chlorophenol	4.657	128	217349	85.264	ppm	98
17) 1,3-Diclbzene	4.790	146	171400	62.723	ppm	95
18) 1,4-Dichlorobenzene	4.855	146	180597	63.692	ppm	97
19) 1,2-Diclbzene	4.988	146	176331	65.650	ppm	96
20) Benzyl Alcohol	4.945	79	159252	85.337	ppm	97
21) 1-Methyl-2-pyrrolidinone	5.020	99	62579	41.813	ppm	95
22) 2,2'-oxybis(1-Chloropr...	5.063	45	216209	98.562	ppm	99
23) 2-Methylphenol	5.042	108	184689	83.495	ppm	97
24) 3+4-Methylphenol	5.175	108	181888	77.587	ppm	92
25) Acetophenone	5.186	105	577770	173.445	ppm	96
26) N-Nitroso-Di-n-propyla...	5.181	70	147553	89.436	ppm	83
30) Hexachloroethane	5.288	117	63154	57.634	ppm	94
32) Alpha-terpinol	6.026	121	90752	101.918	ppm	84
35) Nitrobenzene	5.347	77	195822	76.119	ppm	88
37) Isophorone	5.566	82	396940	87.661	ppm	98
38) 2-Nitrophenol	5.641	139	122527	87.854	ppm	95
39) Benzoic Acid	5.769	105	172776	95.534	ppm	91
40) 2,4-Dimethylphenol	5.668	107	233402	91.969	ppm	94
41) bis(-2-Chloroethoxy)Me...	5.758	93	259627	93.308	ppm	98
42) 2,4-Dichlorophenol	5.865	162	190431	91.976	ppm	98
44) 1,2,4-Trichlorobenzene	5.946	180	175182	73.271	ppm	99
45) Naphthalene	6.021	128	577907	75.594	ppm	99
46) 4-Chloroaniline	6.074	127	256508	82.379	ppm	99
48) Hexachlorobutadiene	6.133	225	94499	69.337	ppm	94
50) 4-Chloro-3-methylphenol	6.534	107	199346	95.415	ppm	99
52) Caprolactam	6.416	113	22760	29.284	ppm	97
55) 2-Methylnaphthalene	6.689	142	417807	82.727	ppm	97

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN220.D  
 Acq On : 14 Mar 2018 10:44 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-03  
 Misc : 309817 8270D LCSD  
 ALS Vial : 7 Sample Multiplier: 1

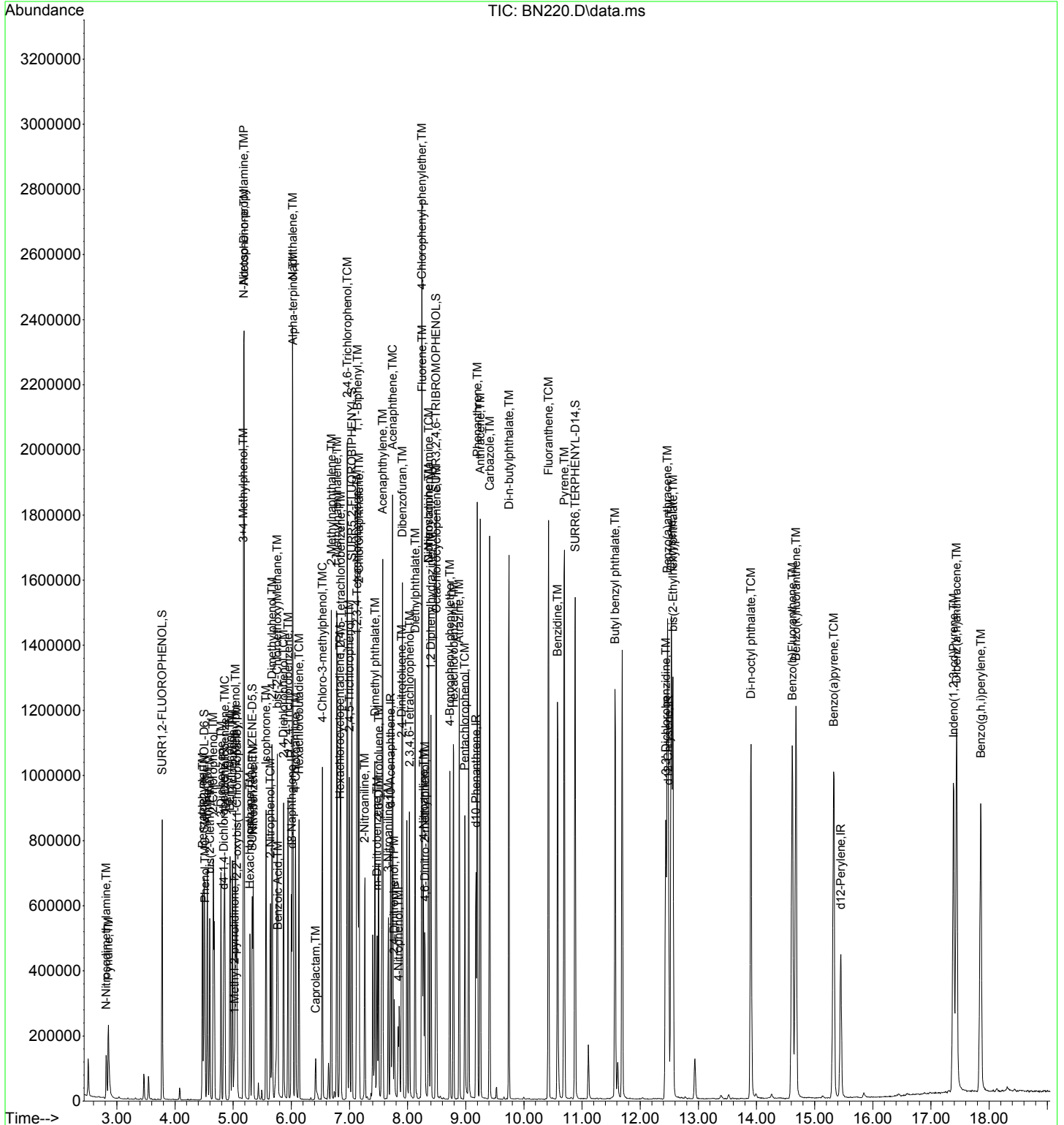
Quant Time: Mar 15 11:30:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1-Methylnaphthalene	6.785	142	412452	86.532	ppm	99
58) Hexachlorocyclopentadiene	6.834	237	107759	73.764	ppm	97
59) 1,2,4,5-Tetrachloroben...	6.850	216	204403	82.285	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.128	216	197796	83.080	ppm	97
61) 2,4,6-Trichlorophenol	6.962	196	143909	95.641	ppm	100
62) 2,4,5-Trichlorophenol	6.999	196	154763	98.617	ppm	99
65) 1,1'-Biphenyl	7.138	154	570755	90.357	ppm	98
66) 2-Chloronaphthalene	7.165	162	424273	87.252	ppm	96
67) 2-Nitroaniline	7.261	65	111777	92.620	ppm	98
69) m-Dinitrobenzene	7.475	168	72972	85.426	ppm	79
70) Acenaphthylene	7.572	152	722291	94.149	ppm	99
71) Dimethyl phthalate	7.438	163	428264	75.952	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	107813	87.041	ppm	88
73) Acenaphthene	7.743	153	464507	88.812	ppm	98
74) 3-Nitroaniline	7.668	138	99711	71.519	ppm	93
75) 2,4-Dinitrophenol	7.770	184	51673	87.261	ppm	99
76) Dibenzofuran	7.909	168	636708	93.191	ppm	98
77) 2,4-Dinitrotoluene	7.898	165	151536	92.254	ppm	94
78) 4-Nitrophenol	7.839	65	44425	49.412	ppm	89
82) 2,3,4,6-Tetrachlorophenol	8.032	232	113039	95.363	ppm	94
83) Fluorene	8.251	166	474652	86.497	ppm	98
84) 4-Chlorophenyl-phenyle...	8.246	204	229087	92.973	ppm	93
85) Diethylphthalate	8.128	149	446026	78.571	ppm	98
86) 4-Nitroaniline	8.272	138	136283	85.717	ppm	97
90) Octachlorocyclopentene	8.497	307	96648	100.958	ppm	97
93) 4,6-Dinitro-2-methylph...	8.299	198	83025	85.389	ppm	99
94) Diphenylamine	8.363	169	387783	93.303	ppm	99
95) 1,2 Diphenylhydrazine	8.401	77	425713	83.550	ppm	97
96) N-Nitrosodiphenylamine	8.363	169	387783	93.304	ppm	99
101) 4-Bromophenyl-phenylether	8.727	248	125997	84.073	ppm	95
102) Hexachlorobenzene	8.791	284	161184	87.053	ppm	91
104) Atrazine	8.887	215	76343	113.368	ppm	96
105) Pentachlorophenol	8.984	266	106113	94.159	ppm	97
111) Phenanthrene	9.198	178	697180	92.551	ppm	99
112) Anthracene	9.251	178	700337	93.667	ppm	99
113) Carbazole	9.412	167	723269	96.575	ppm	98
114) Di-n-butylphthalate	9.743	149	859673	90.863	ppm	99
116) Fluoranthene	10.422	202	806932	97.354	ppm	99
122) Benzidine	10.578	184	557096	98.145	ppm	98
123) Pyrene	10.695	202	850624	96.787	ppm	99
128) Butyl benzyl phthalate	11.567	149	405698	86.904	ppm	96
131) 3,3'-Dichlorobenzidine	12.439	252	267710	81.834	ppm	98
132) Benzo(a)anthracene	12.471	228	829137	94.846	ppm	99
133) Chrysene	12.535	228	801596	97.005	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.562	149	579809	90.262	ppm	99
136) Di-n-octyl phthalate	13.904	149	992506	93.246	ppm	98
138) Benzo(b)Fluoranthene	14.616	252	844862	92.248	ppm	95
139) Benzo(k)fluoranthene	14.680	252	842133	96.610	ppm	98
140) Benzo(a)pyrene	15.327	252	779499	99.703	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.386	276	686525	93.597	ppm	95
143) Dibenz(a,h)anthracene	17.440	278	813012	101.276	ppm	97
144) Benzo(g,h,i)perylene	17.857	276	692806	95.061	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN220.D  
Acq On : 14 Mar 2018 10:44 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-03  
Misc : 309817 8270D LCSD  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 11:30:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN220.D  
 Acq On : 14 Mar 2018 10:44 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-03  
 Misc : 309817 8270D LCSD  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 11:57:51 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\HEXA031418D.M  
 Quant Title : 8270 EXP MIX2 ANALYSIS  
 QLast Update : Thu Mar 15 11:29:23 2018  
 Response via : Initial Calibration

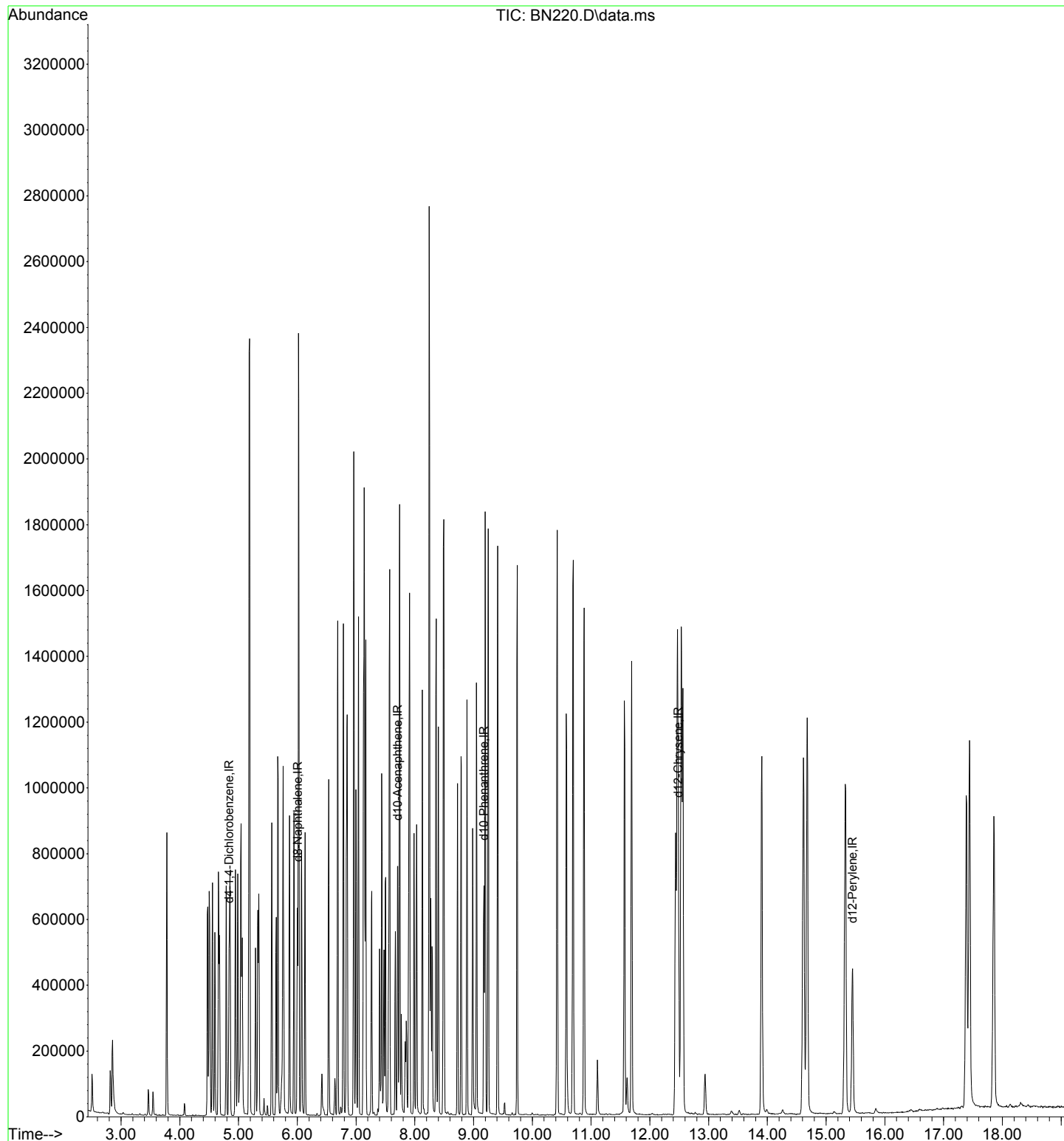
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	73757	40.00	ppm	0.00
2) d8-Naphthalene	6.005	136	369783	40.00	ppm	0.00
3) d10-Acenaphthene	7.705	164	166963	40.00	ppm	0.00
4) d10-Phenanthrene	9.176	188	267174	40.00	ppm	0.00
5) d12-Chrysene	12.487	240	291993	40.00	ppm	0.00
7) d12-Perylene	15.450	264	302032	40.00	ppm	-0.01

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN220.D  
Acq On : 14 Mar 2018 10:44 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-03  
Misc : 309817 8270D LCSD  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 11:57:51 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\HEXA031418D.M  
Quant Title : 8270 EXP MIX2 ANALYSIS  
QLast Update : Thu Mar 15 11:29:23 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN222.D  
 Acq On : 14 Mar 2018 11:41 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-04  
 Misc : 309817 8270D R2137-002MS  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 15 11:30:29 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.838	152	79273	40.00	ppm	0.00	
33) d8-Naphthalene	6.004	136	322173	40.00	ppm	0.00	
57) d10-Acenaphthene	7.711	164	179065	40.00	ppm	0.00	
91) d10-Phenanthrene	9.176	188	271533	40.00	ppm	0.00	
117) d12-Chrysene	12.492	240	285289	40.00	ppm	0.00	
135) d12-Perylene	15.450	264	297713	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.774	112	286552	108.47	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	54.23%	
12) SURR2,PHENOL-D6	4.502	99	242709	75.83	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	37.91%	
34) SURR4,NITROBENZENE-D5	5.331	82	244332	91.50	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	91.50%	
63) SURR5,2-FLUOROBIPHENYL	7.042	172	561507	90.97	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	90.97%	
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	201158	195.24	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	97.62%	
124) SURR6,TERPHENYL-D14	10.882	244	672600	105.16	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	105.16%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.849	79	125682	50.059	ppm		99
3) N-Nitrosodimethylamine	2.811	74	83912	66.486	ppm		99
10) Benzaldehyde	4.475	106	154322	90.892	ppm		99
11) Aniline	4.555	93	297855	65.662	ppm		98
13) Phenol	4.512	94	129370	40.718	ppm		97
14) bis(2-Clethyl)Ether	4.598	93	202663	87.756	ppm		97
16) 2-Chlorophenol	4.657	128	233926	85.382	ppm		98
17) 1,3-Diclbzene	4.790	146	212890	72.485	ppm		93
18) 1,4-Dichlorobenzene	4.855	146	219932	72.167	ppm		98
19) 1,2-Diclbzene	4.988	146	216568	75.020	ppm		97
20) Benzyl Alcohol	4.945	79	171855	85.683	ppm		96
21) 1-Methyl-2-pyrrolidinone	5.026	99	56751	35.280	ppm		94
22) 2,2'-oxybis(1-Chloropr...	5.063	45	242865	103.010	ppm		99
23) 2-Methylphenol	5.042	108	197861	83.226	ppm		96
24) 3+4-Methylphenol	5.175	108	192718	76.486	ppm		92
25) Acetophenone	5.191	105	633873	177.046	ppm		90
26) N-Nitroso-Di-n-propyla...	5.181	70	163890	92.426	ppm	#	80
30) Hexachloroethane	5.288	117	82452	70.009	ppm		98
32) Alpha-terpinol	6.026	121	102651	107.260	ppm		88
35) Nitrobenzene	5.347	77	217495	80.449	ppm		89
37) Isophorone	5.566	82	435788	91.578	ppm		100
38) 2-Nitrophenol	5.641	139	137136	93.566	ppm		97
39) Benzoic Acid	5.769	105	179199	94.287	ppm		92
40) 2,4-Dimethylphenol	5.673	107	253747	95.142	ppm		94
41) bis(-2-Chloroethoxy)Me...	5.758	93	288220	98.567	ppm		98
42) 2,4-Dichlorophenol	5.865	162	210960	96.956	ppm		99
44) 1,2,4-Trichlorobenzene	5.946	180	208588	83.017	ppm		99
45) Naphthalene	6.026	128	739917	92.098	ppm		99
46) 4-Chloroaniline	6.074	127	289237	88.391	ppm		98
48) Hexachlorobutadiene	6.133	225	115518	80.654	ppm		97
50) 4-Chloro-3-methylphenol	6.534	107	216084	98.417	ppm		98
52) Caprolactam	6.422	113	21194	25.948	ppm		94
55) 2-Methylnaphthalene	6.689	142	480159	90.468	ppm		97

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN222.D  
 Acq On : 14 Mar 2018 11:41 am  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-04  
 Misc : 309817 8270D R2137-002MS  
 ALS Vial : 9 Sample Multiplier: 1

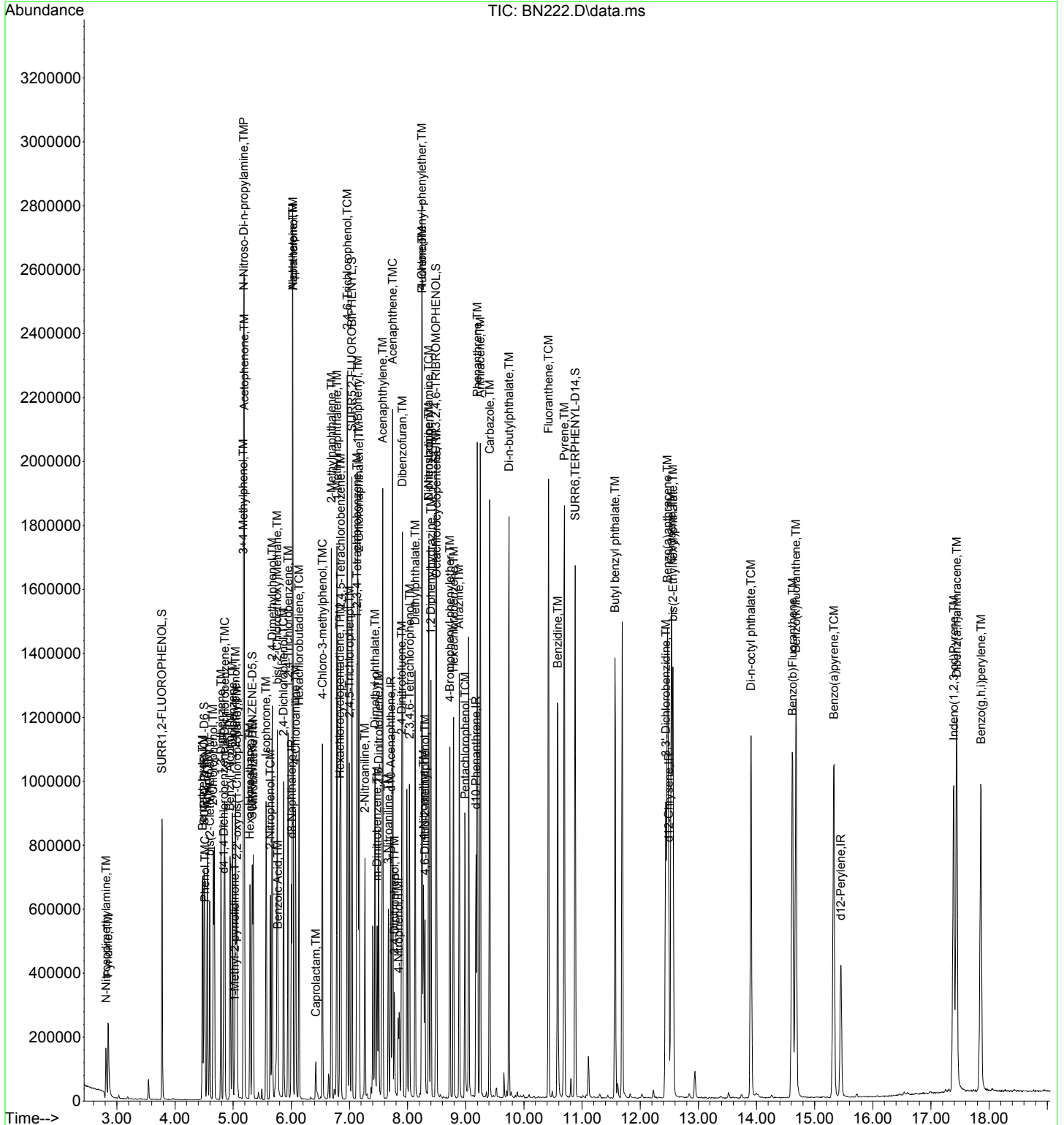
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 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1-Methylnaphthalene	6.785	142	467881	93.406	ppm	99
58) Hexachlorocyclopentadiene	6.833	237	123123	78.585	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.850	216	223269	83.805	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.128	216	217403	85.144	ppm	98
61) 2,4,6-Trichlorophenol	6.962	196	158207	98.037	ppm	98
62) 2,4,5-Trichlorophenol	6.999	196	167944	99.783	ppm	97
65) 1,1'-Biphenyl	7.144	154	608349	89.799	ppm	98
66) 2-Chloronaphthalene	7.165	162	461078	88.413	ppm	98
67) 2-Nitroaniline	7.267	65	119651	92.444	ppm	89
69) m-Dinitrobenzene	7.475	168	79553	86.836	ppm	80
70) Acenaphthylene	7.572	152	789135	95.910	ppm	99
71) Dimethyl phthalate	7.443	163	464030	76.734	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	118866	89.478	ppm	90
73) Acenaphthene	7.743	153	515208	91.849	ppm	97
74) 3-Nitroaniline	7.668	138	111909	74.843	ppm	97
75) 2,4-Dinitrophenol	7.775	184	58960	91.555	ppm	90
76) Dibenzofuran	7.909	168	690026	94.169	ppm	97
77) 2,4-Dinitrotoluene	7.898	165	161914	91.910	ppm	93
78) 4-Nitrophenol	7.839	65	46102	47.812	ppm	86
82) 2,3,4,6-Tetrachlorophenol	8.032	232	120654	94.908	ppm	97
83) Fluorene	8.251	166	519367	88.249	ppm	99
84) 4-Chlorophenyl-phenyle...	8.246	204	240938	91.174	ppm	94
85) Diethylphthalate	8.128	149	494543	81.230	ppm	100
86) 4-Nitroaniline	8.272	138	145535	85.349	ppm	98
90) Octachlorocyclopentene	8.497	307	99421	96.835	ppm	99
93) 4,6-Dinitro-2-methylph...	8.299	198	92906	94.017	ppm	99
94) Diphenylamine	8.363	169	424488	100.495	ppm	98
95) 1,2-Diphenylhydrazine	8.401	77	460558	88.938	ppm	99
96) N-Nitrosodiphenylamine	8.363	169	424488	100.496	ppm	98
101) 4-Bromophenyl-phenylether	8.727	248	134799	88.502	ppm	96
102) Hexachlorobenzene	8.791	284	175881	93.465	ppm	92
104) Atrazine	8.887	215	82582	120.664	ppm	91
105) Pentachlorophenol	8.989	266	116905	102.070	ppm	98
111) Phenanthrene	9.198	178	789929	103.181	ppm	99
112) Anthracene	9.251	178	765477	100.735	ppm	99
113) Carbazole	9.412	167	788265	103.564	ppm	98
114) Di-n-butylphthalate	9.743	149	923230	96.014	ppm	100
116) Fluoranthene	10.422	202	853642	101.337	ppm	98
122) Benzidine	10.583	184	573339	103.380	ppm	97
123) Pyrene	10.695	202	890831	103.744	ppm	99
128) Butyl benzyl phthalate	11.567	149	432074	94.729	ppm	96
131) 3,3'-Dichlorobenzidine	12.439	252	292409	91.485	ppm	99
132) Benzo(a)anthracene	12.471	228	858132	100.470	ppm	99
133) Chrysene	12.535	228	829647	102.759	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.562	149	626083	99.756	ppm	99
136) Di-n-octyl phthalate	13.904	149	1048575	99.881	ppm	98
138) Benzo(b)Fluoranthene	14.621	252	861378	95.357	ppm	95
139) Benzo(k)fluoranthene	14.680	252	868375	101.004	ppm	98
140) Benzo(a)pyrene	15.332	252	805800	104.498	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.392	276	708889	97.987	ppm	91
143) Dibenz(a,h)anthracene	17.445	278	838374	105.885	ppm	95
144) Benzo(g,h,i)perylene	17.862	276	738992	102.806	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN222.D  
Acq On : 14 Mar 2018 11:41 am  
Operator : J.Misiurewicz  
Sample : RQ1802190-04  
Misc : 309817 8270D R2137-002MS  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 15 11:30:29 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN223.D  
 Acq On : 14 Mar 2018 12:10 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-05  
 Misc : 309817 8270D R2137-002MSD  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 15 11:30:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.838	152	80157	40.00	ppm	0.00	
33) d8-Naphthalene	6.004	136	307896	40.00	ppm	0.00	
57) d10-Acenaphthene	7.710	164	175550	40.00	ppm	0.00	
91) d10-Phenanthrene	9.176	188	278468	40.00	ppm	0.00	
117) d12-Chrysene	12.487	240	296057	40.00	ppm	0.00	
135) d12-Perylene	15.450	264	310836	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.779	112	266120	99.62	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	49.81%	
12) SURR2,PHENOL-D6	4.501	99	235016	72.61	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	36.31%	
34) SURR4,NITROBENZENE-D5	5.330	82	234740	91.98	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	91.98%	
63) SURR5,2-FLUOROBIPHENYL	7.042	172	572358	94.59	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	94.59%	
88) SURR3,2,4,6-TRIBROMOPH...	8.491	330	210750	208.65	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	104.33%	
124) SURR6,TERPHENYL-D14	10.882	244	702821	105.89	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	105.89%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.854	79	113466	44.695	ppm		98
3) N-Nitrosodimethylamine	2.811	74	82463	64.617	ppm		95
10) Benzaldehyde	4.475	106	139695	81.370	ppm		97
11) Aniline	4.555	93	298115	64.995	ppm		98
13) Phenol	4.512	94	119969	37.343	ppm		96
14) bis(2-Clethyl)Ether	4.598	93	193525	82.875	ppm		95
16) 2-Chlorophenol	4.662	128	223867	80.809	ppm		92
17) 1,3-Diclbzene	4.790	146	207970	70.029	ppm		99
18) 1,4-Dichlorobenzene	4.854	146	214654	69.658	ppm		98
19) 1,2-Diclbzene	4.988	146	204397	70.023	ppm		95
20) Benzyl Alcohol	4.945	79	167277	82.481	ppm		98
21) 1-Methyl-2-pyrrolidinone	5.025	99	59049	36.304	ppm		98
22) 2,2'-oxybis(1-Chloropr...	5.063	45	231623	97.158	ppm		98
23) 2-Methylphenol	5.042	108	185802	77.292	ppm		96
24) 3+4-Methylphenol	5.175	108	188475	73.977	ppm		88
25) Acetophenone	5.191	105	629101	173.776	ppm		91
26) N-Nitroso-Di-n-propyla...	5.181	70	159166	88.772	ppm	#	82
30) Hexachloroethane	5.288	117	78210	65.675	ppm		99
32) Alpha-terpinol	6.026	121	99781	103.111	ppm		89
35) Nitrobenzene	5.346	77	212218	82.137	ppm		91
37) Isophorone	5.566	82	434017	95.435	ppm		98
38) 2-Nitrophenol	5.641	139	132175	94.363	ppm		99
39) Benzoic Acid	5.774	105	180473	99.360	ppm		96
40) 2,4-Dimethylphenol	5.673	107	254507	99.852	ppm		96
41) bis(-2-Chloroethoxy)Me...	5.758	93	280801	100.483	ppm		99
42) 2,4-Dichlorophenol	5.865	162	209216	100.613	ppm		98
44) 1,2,4-Trichlorobenzene	5.945	180	198686	82.743	ppm		100
45) Naphthalene	6.026	128	729624	95.028	ppm		99
46) 4-Chloroaniline	6.074	127	296777	94.901	ppm		99
48) Hexachlorobutadiene	6.133	225	112171	81.949	ppm		95
50) 4-Chloro-3-methylphenol	6.534	107	218761	104.257	ppm		98
52) Caprolactam	6.421	113	22722	29.109	ppm		99
55) 2-Methylnaphthalene	6.689	142	480925	94.814	ppm		98

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN223.D  
 Acq On : 14 Mar 2018 12:10 pm  
 Operator : J.Misiurewicz  
 Sample : RQ1802190-05  
 Misc : 309817 8270D R2137-002MSD  
 ALS Vial : 10 Sample Multiplier: 1

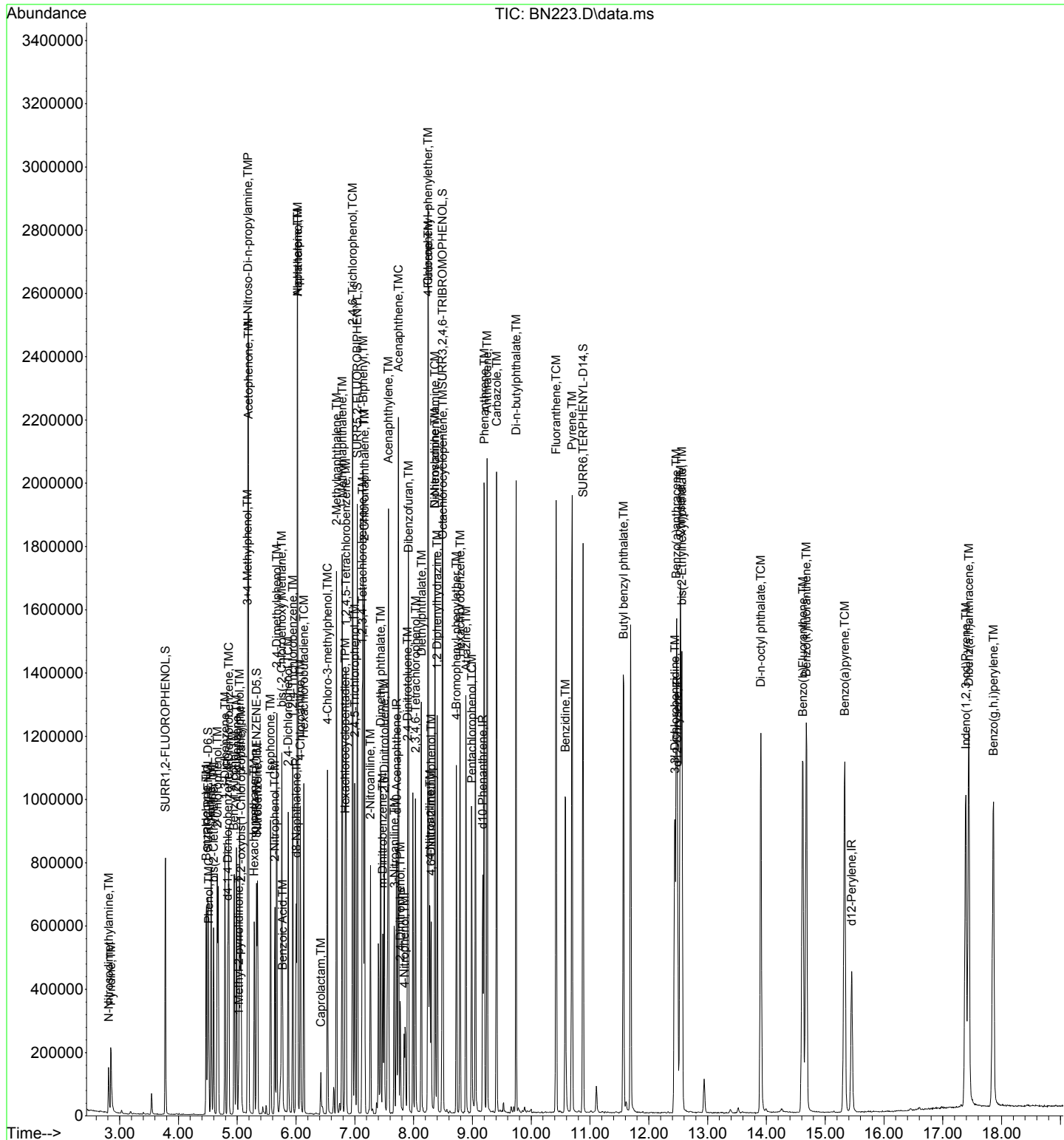
Quant Time: Mar 15 11:30:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1-Methylnaphthalene	6.785	142	469324	98.039	ppm	98
58) Hexachlorocyclopentadiene	6.833	237	119971	78.106	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.849	216	224294	85.875	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.127	216	222851	89.025	ppm	100
61) 2,4,6-Trichlorophenol	6.962	196	162541	102.740	ppm	99
62) 2,4,5-Trichlorophenol	6.999	196	168792	102.295	ppm	97
65) 1,1'-Biphenyl	7.144	154	631562	95.092	ppm	98
66) 2-Chloronaphthalene	7.165	162	467015	91.344	ppm	98
67) 2-Nitroaniline	7.267	65	121552	95.794	ppm	89
69) m-Dinitrobenzene	7.475	168	84835	94.456	ppm	75
70) Acenaphthylene	7.571	152	798282	98.964	ppm	100
71) Dimethyl phthalate	7.443	163	482515	81.388	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	125242	96.166	ppm	84
73) Acenaphthene	7.743	153	532171	96.772	ppm	96
74) 3-Nitroaniline	7.673	138	115643	78.889	ppm	87
75) 2,4-Dinitrophenol	7.775	184	62242	96.925	ppm	91
76) Dibenzofuran	7.914	168	715310	99.574	ppm	98
77) 2,4-Dinitrotoluene	7.898	165	169436	98.105	ppm	96
78) 4-Nitrophenol	7.839	65	46498	49.188	ppm	89
82) 2,3,4,6-Tetrachlorophenol	8.031	232	128896	103.421	ppm	94
83) Fluorene	8.251	166	533732	92.506	ppm	99
84) 4-Chlorophenyl-phenyle...	8.245	204	249141	96.166	ppm	94
85) Diethylphthalate	8.133	149	512932	85.938	ppm	99
86) 4-Nitroaniline	8.277	138	150632	90.107	ppm	98
90) Octachlorocyclopentene	8.497	307	106579	105.886	ppm	99
93) 4,6-Dinitro-2-methylph...	8.299	198	97010	95.725	ppm	98
94) Diphenylamine	8.363	169	434727	100.356	ppm	99
95) 1,2 Diphenylhydrazine	8.400	77	470317	88.561	ppm	99
96) N-Nitrosodiphenylamine	8.363	169	434727	100.357	ppm	99
101) 4-Bromophenyl-phenylether	8.727	248	139474	89.291	ppm	99
102) Hexachlorobenzene	8.791	284	179539	93.033	ppm	95
104) Atrazine	8.893	215	88956	126.740	ppm	97
105) Pentachlorophenol	8.989	266	129641	110.371	ppm	93
111) Phenanthrene	9.203	178	814256	103.709	ppm	100
112) Anthracene	9.251	178	797159	102.292	ppm	99
113) Carbazole	9.411	167	813693	104.242	ppm	98
114) Di-n-butylphthalate	9.743	149	962164	97.571	ppm	100
116) Fluoranthene	10.422	202	885675	102.521	ppm	99
122) Benzidine	10.583	184	472979	82.182	ppm	98
123) Pyrene	10.695	202	930333	104.404	ppm	99
128) Butyl benzyl phthalate	11.572	149	454968	96.120	ppm	92
131) 3,3'-Dichlorobenzidine	12.444	252	299925	90.423	ppm	99
132) Benzo(a)anthracene	12.471	228	891272	100.555	ppm	99
133) Chrysene	12.540	228	867687	103.561	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.562	149	658736	101.141	ppm	98
136) Di-n-octyl phthalate	13.904	149	1129861	103.081	ppm	98
138) Benzo(b)Fluoranthene	14.621	252	911512	96.647	ppm	95
139) Benzo(k)fluoranthene	14.680	252	915904	102.035	ppm	99
140) Benzo(a)pyrene	15.332	252	846600	105.154	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.392	276	746013	98.765	ppm	94
143) Dibenz(a,h)anthracene	17.445	278	865579	104.706	ppm	96
144) Benzo(g,h,i)perylene	17.862	276	767842	102.310	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN223.D  
Acq On : 14 Mar 2018 12:10 pm  
Operator : J.Misiurewicz  
Sample : RQ1802190-05  
Misc : 309817 8270D R2137-002MSD  
ALS Vial : 10 Sample Multiplier: 1

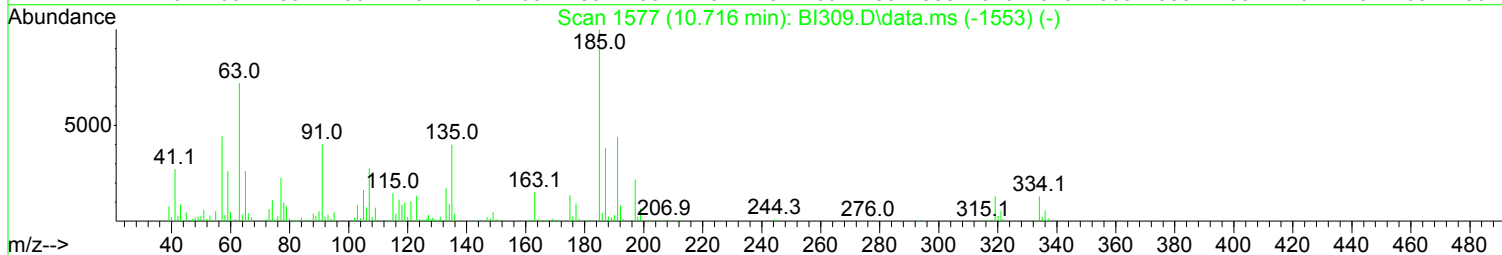
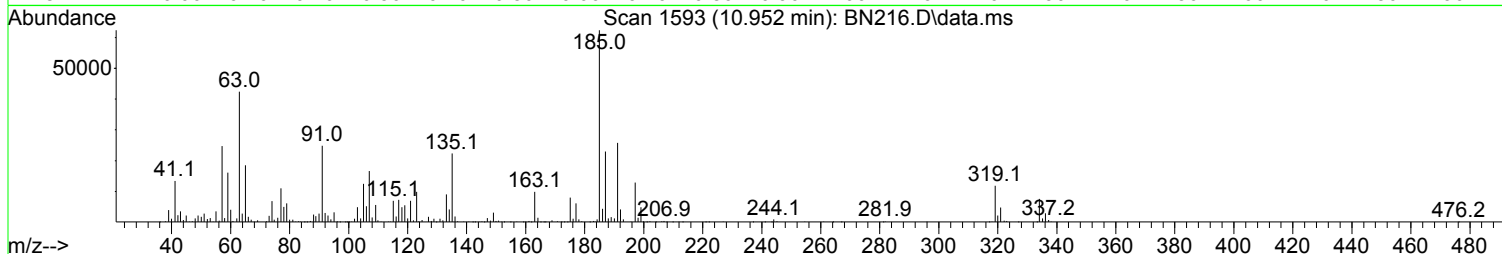
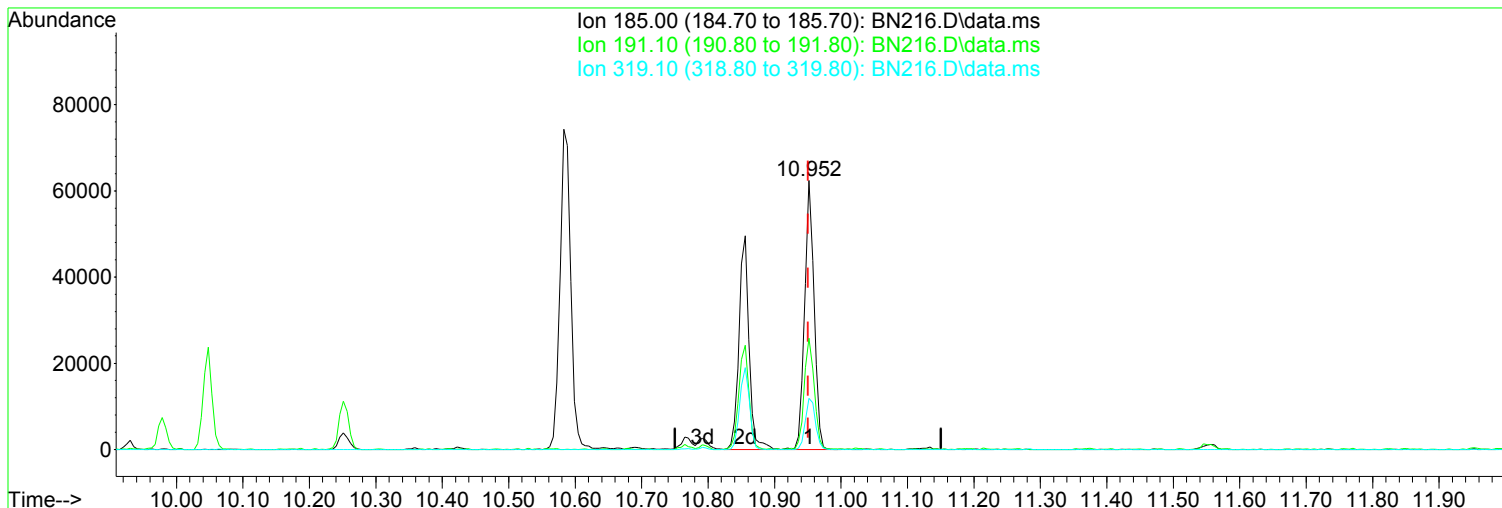
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Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN216.D  
 Acq On : 14 Mar 2018 8:15 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

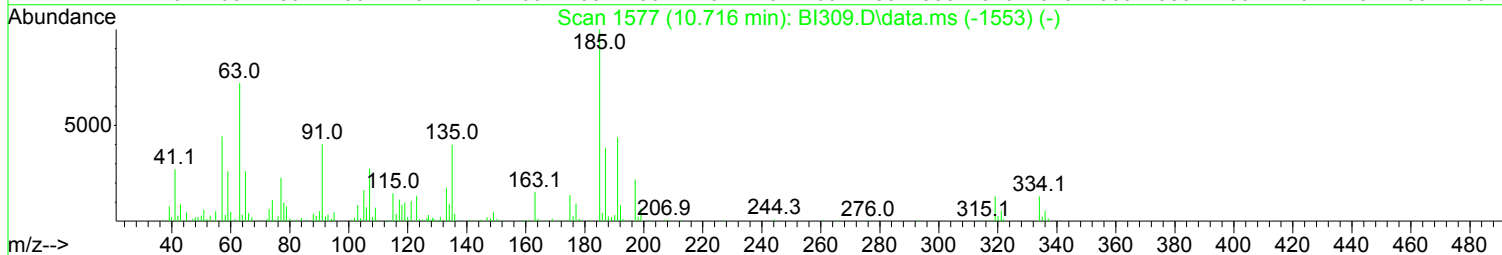
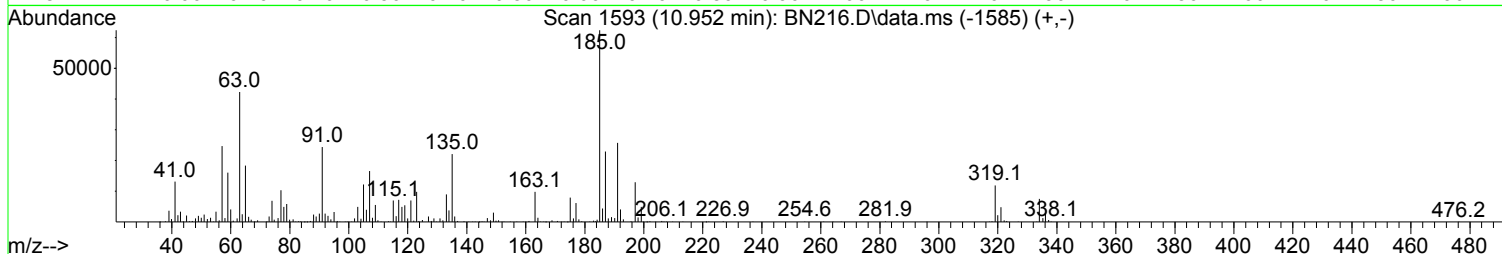
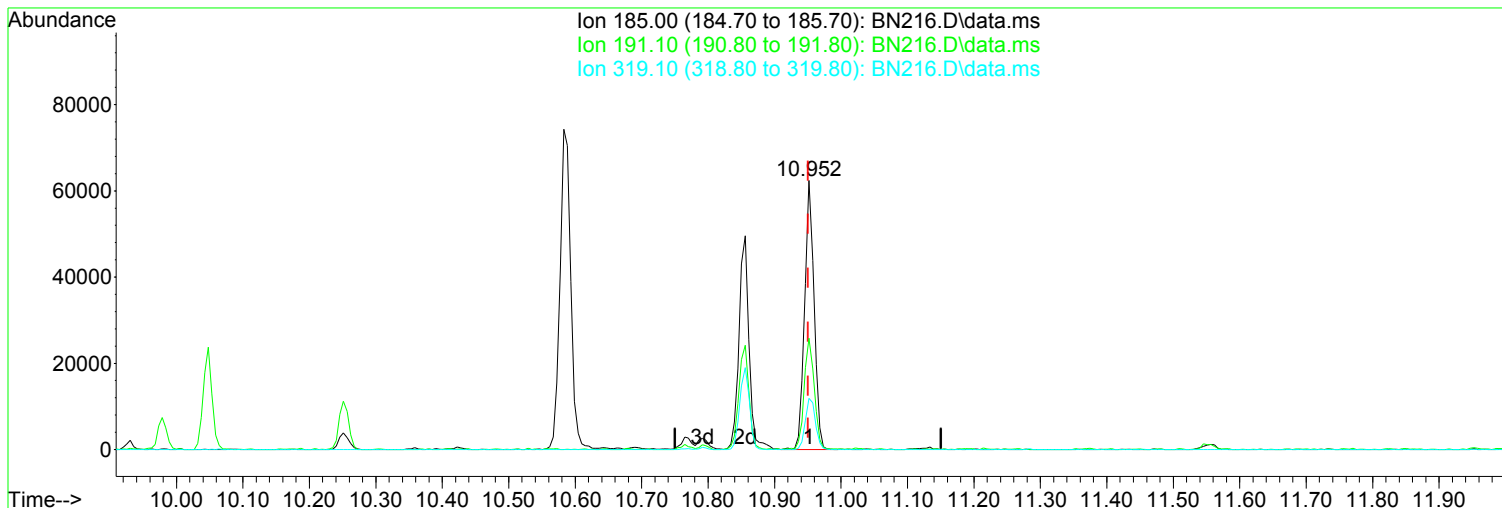
Quant Time: Mar 14 09:14:05 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration



(125) Aramite (TM)			Manual Integration:
10.952min (+ 0.001)	92.58 ppm m		After
response	112647		Split Peak.
Ion	Exp%	Act%	03/15/18
185.00	100.00	100.00	
191.10	44.80	41.36	
319.10	16.20	19.05	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN216.D  
Acq On : 14 Mar 2018 8:15 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



TIC: BN216.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.001) 50.20 ppm

Before

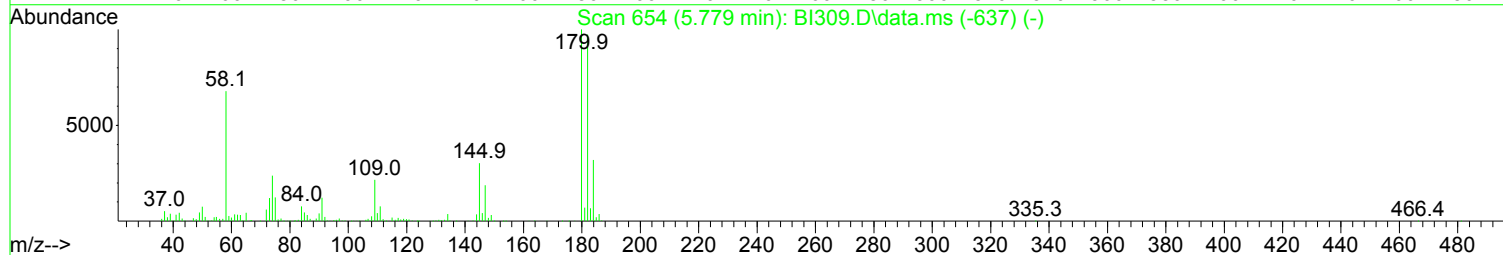
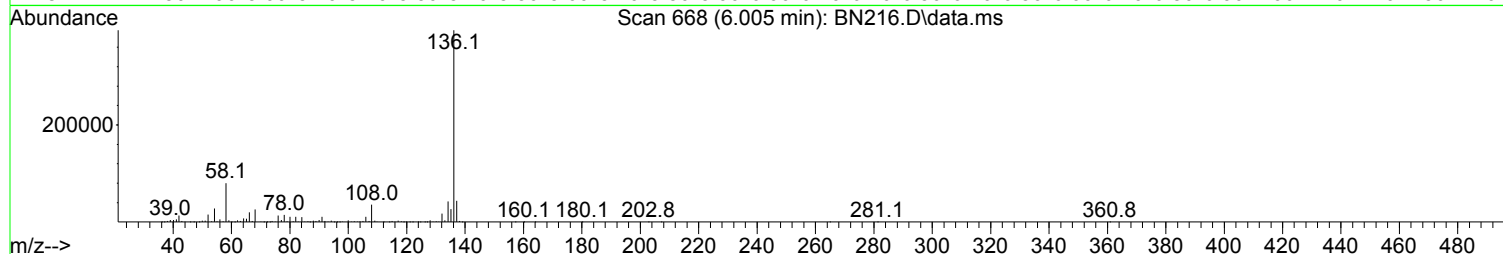
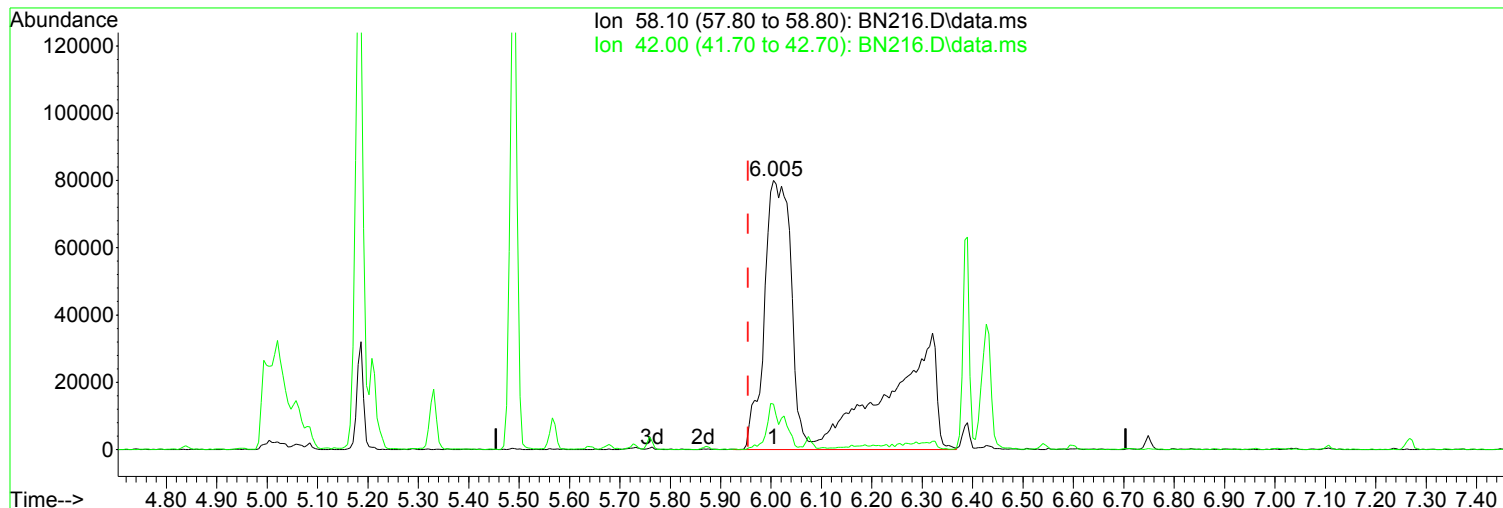
response 61082

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	41.24
319.10	16.20	19.05
0.00	0.00	0.00

03/15/18

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN216.D  
Acq On : 14 Mar 2018 8:15 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.005min (+ 0.050) 86.70 ppm m

After

response 526301

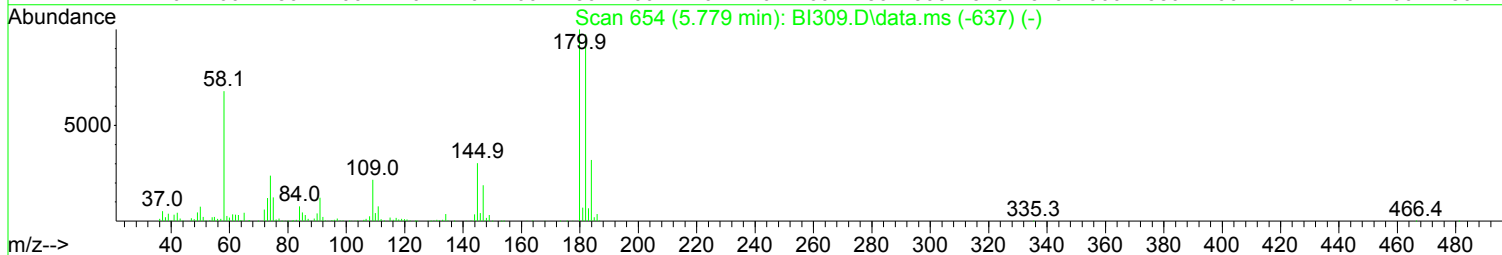
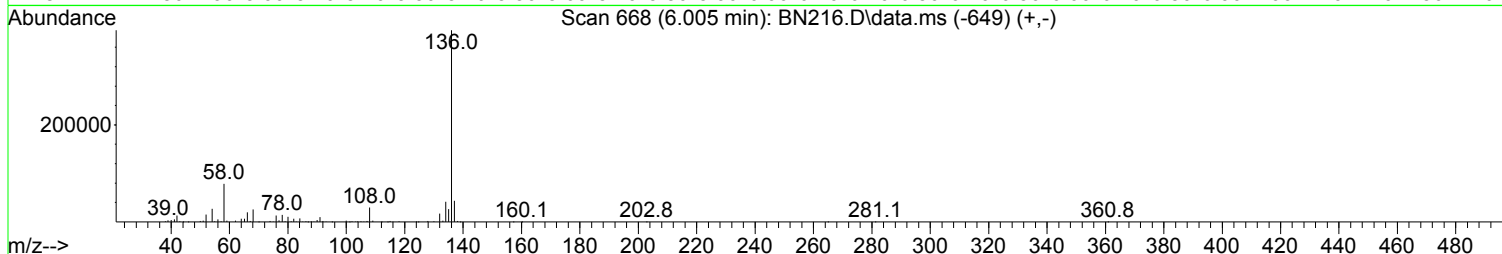
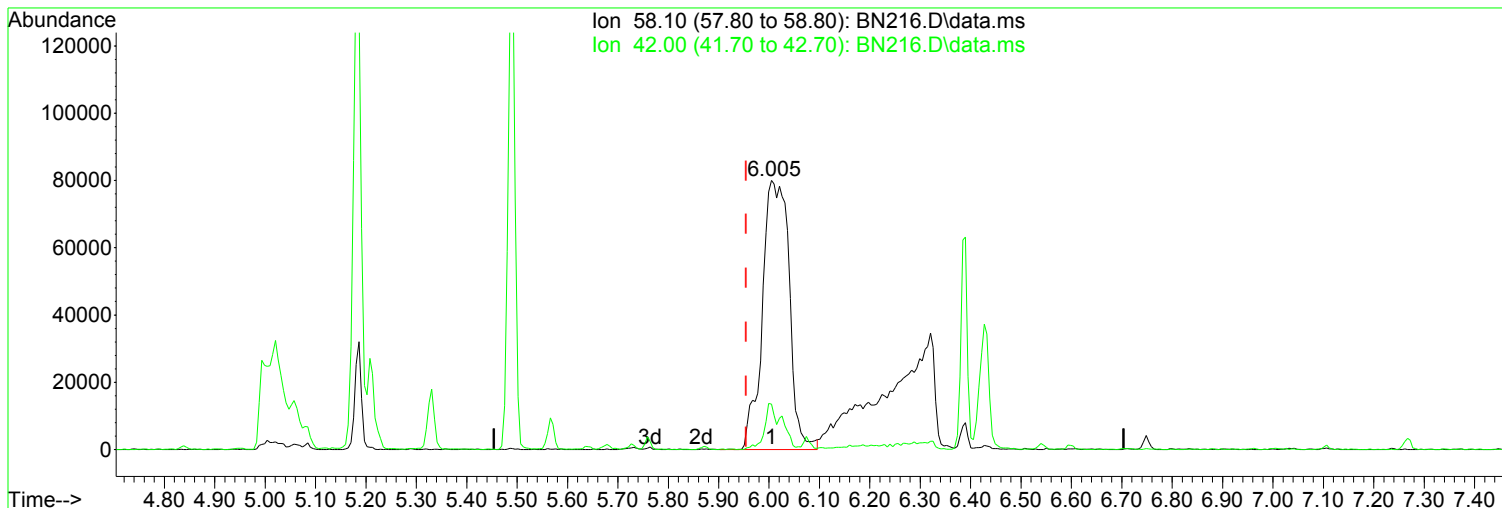
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	16.94
0.00	0.00	0.00
0.00	0.00	0.00

03/15/18

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN216.D  
Acq On : 14 Mar 2018 8:15 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



TIC: BN216.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.005min (+ 0.050) 48.65 ppm

Before

response 295292

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	16.95
0.00	0.00	0.00
0.00	0.00	0.00

03/15/18

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN216.D  
 Acq On : 14 Mar 2018 8:15 am  
 Operator : J.Misiurewicz  
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 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	1.000	1.000		0.0	90	0.00
2	TM Pyridine	1.267	1.451	-14.5	97	-0.01	
3	TM N-Nitrosodimethylamine	0.637	0.721	-13.2	95	-0.01	
4	TM 2-Picoline	1.325	1.476	-11.4	97	0.00	
5	TM N-Nitrosomethylamine	0.578	0.617	-6.7	97	0.00	
6	TM Methyl Methansulfonate	0.695	0.732	-5.3	95	0.00	
7	S SURR1,2-FLUOROPHENOL	1.333	1.519	-14.0	100	0.00	
8	TM N-Nitrosodiethylamine	0.571	0.608	-6.5	95	0.00	
9	TM Ethyl Mathanesulfonate	0.943	1.024	-8.6	96	0.00	
10	TM Benzaldehyde	0.857	0.912	-6.4	95	0.00	
11	TM Aniline	2.289	2.530	-10.5	99	0.00	
12	S SURR2, PHENOL-D6	1.615	1.780	-10.2	98	0.00	
13	TMC Phenol	1.603	1.746	-8.9	98	0.00	
14	TM bis(2-Clethyl)Ether	1.165	1.275	-9.4	98	0.00	
15	TM Pentachloroethane	0.506	0.547	-8.1	98	0.00	
16	TM 2-Chlorophenol	1.382	1.510	-9.3	97	0.00	
17	TM 1,3-Diclbzence	1.482	1.628	-9.9	97	0.00	
18	TMC 1,4-Dichlorobenzene	1.538	1.675	-8.9	98	0.00	
19	TM 1,2-Diclbzence	1.457	1.580	-8.4	98	0.00	
20	TM Benzyl Alcohol	1.012	1.139	-12.5	98	0.00	
21	T 1-Methyl-2-pyrrolidinone	0.812	0.937	-15.4	99	0.02	
22	TM 2,2'-oxybis(1-Chloropropane	1.190	1.265	-6.3	97	0.00	
23	TM 2-Methylphenol	1.200	1.313	-9.4	98	0.00	
24	TM 3+4-Methylphenol	1.271	1.388	-9.2	99	0.00	
25	TM Acetophenone	1.807	1.998	-10.6	99	0.00	
26	TMP N-Nitroso-Di-n-propylamine	0.895	0.970	-8.4	97	0.00	
27	TM N-Nitrosopyrrolidine	0.684	0.746	-9.1	98	0.00	
28	TM N-Nitrosomorpholine	0.672	0.725	-7.9	97	0.00	
29	TM o-Toluidine	2.050	2.190	-6.8	96	0.00	
30	TM Hexachloroethane	0.594	0.648	-9.1	97	0.00	
31	TM o,o,o-Triethylphosphorothio	0.625	0.685	-9.6	98	0.00	
32	TM Alpha-terpinol	0.483	0.524	-8.5	101	0.00	
33	IR d8-Naphthalene	1.000	1.000		0.0	91	0.00
34	S SURR4,NITROBENZENE-D5	0.332	0.354	-6.6	96	0.00	
35	TM Nitrobenzene	0.336	0.362	-7.7	97	0.00	
36	TM N-Nitrosopiperidine	0.181	0.190	-5.0	98	0.00	
37	TM Isophorone	0.591	0.643	-8.8	98	0.00	
38	TCM 2-Nitrophenol	0.182	0.203	-11.5	97	0.00	
39	TM Benzoic Acid	0.236	0.234	0.8	86	0.01	
40	TM 2,4-Dimethylphenol	0.331	0.364	-10.0	100	0.00	
41	TM bis(-2-Chloroethoxy)Methane	0.363	0.388	-6.9	96	0.00	
42	TCM 2,4-Dichlorophenol	0.270	0.297	-10.0	98	0.00	
43	TM a,a-Dimethylphenethylamine	0.636	0.689	-8.3	103	0.05	
44	TM 1,2,4-Trichlorobenzene	0.312	0.335	-7.4	98	0.00	
45	TM Naphthalene	0.997	1.049	-5.2	97	0.00	
46	TM 4-Chloroaniline	0.406	0.426	-4.9	96	0.00	
47	TM 2,6-Dichlorophenol	0.290	0.319	-10.0	99	0.00	
48	TCM Hexachlorobutadiene	0.178	0.192	-7.9	97	0.00	
49	TM Hexachloropropene	0.218	0.234	-7.3	96	0.00	
50	TMC 4-Chloro-3-methylphenol	0.273	0.298	-9.2	98	0.00	
51	TM N-N-di-n-butylamine	0.229	0.233	-1.7	100	0.00	

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 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
 Quant Method : I:\ACQUADATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
52 TM	Caprolactam	0.101	0.108		-6.9	96	0.02
53 TM	p-Phenylenediamine	0.012	0.012		0.0	96	0.00
54 TM	Safrole	0.244	0.268		-9.8	100	0.00
55 TM	2-Methylnaphthalene	0.659	0.704		-6.8	98	0.00
56 TM	1-Methylnaphthalene	0.622	0.663		-6.6	99	0.00
57 IR	d10-Acenaphthene	1.000	1.000		0.0	89	0.00
58 TPM	Hexachlorocyclopentadiene	0.350	0.397	-13.4	<del>-13.4</del>	97	0.00
59 TM	1,2,4,5-Tetrachlorobenzene	0.595	0.658		-10.6	99	0.00
60 TM	1,2,3,4-Tetrachlorobenzene	0.570	0.636		-11.6	99	0.00
61 TCM	2,4,6-Trichlorophenol	0.360	0.411		-14.2	99	0.00
62 TM	2,4,5-Trichlorophenol	0.376	0.420		-11.7	100	0.00
63 S	SURR5,2-FLUOROBIPHENYL	1.379	1.521		-10.3	99	0.00
64 TM	Isosafrole	0.225	0.245		-8.9	97	0.00
65 TM	1,1'-Biphenyl	1.513	1.648		-8.9	98	0.00
66 TM	2-Chloronaphthalene	1.165	1.276		-9.5	97	0.00
67 TM	2-Nitroaniline	0.289	0.318		-10.0	96	0.00
68 TM	1,4-Naphthoquinone	0.366	0.415		-13.4	98	0.00
69 TM	m-Dinitrobenzene	0.205	0.217		-5.9	94	0.00
70 TM	Acenaphthylene	1.838	2.048		-11.4	100	0.00
71 TM	Dimethyl phthalate	1.351	1.410		-4.4	98	0.00
72 TM	2,6-Dinitrotoluene	0.297	0.329		-10.8	100	0.00
73 TMC	Acenaphthene	1.253	1.375		-9.7	100	0.00
74 TM	3-Nitroaniline	0.334	0.369		-10.5	96	0.00
75 TPM	2,4-Dinitrophenol	0.137	0.135	2.1	<del>-1.5</del>	85	0.00
76 TM	Dibenzofuran	1.637	1.796		-9.7	100	0.00
77 TM	2,4-Dinitrotoluene	0.394	0.443		-12.4	97	0.00
78 TMP	4-Nitrophenol	0.215	0.233		-8.4	92	0.00
79 TM	Pentachlorobenzene	0.532	0.599		-12.6	103	0.00
80 TM	1-Naphthylamine	0.794	0.832		-4.8	97	0.00
81 TM	2-Naphthylamine	1.074	1.136		-5.8	96	0.00
82 TM	2,3,4,6-Tetrachlorophenol	0.284	0.311		-9.5	95	0.00
83 TM	Fluorene	1.315	1.419		-7.9	101	0.00
84 TM	4-Chlorophenyl-phenylether	0.590	0.651		-10.3	104	0.00
85 TM	Diethylphthalate	1.360	1.487		-9.3	99	0.00
86 TM	4-Nitroaniline	0.381	0.430		-12.9	98	0.00
87 TM	5-Nitro-o-toluidine	0.381	0.428		-12.3	97	0.00
88 S	SURR3,2,4,6-TRIBROMOPHENOL	0.230	0.254		-10.4	96	0.00
89 TM	Sulfotepp	0.214	0.252		-17.8	98	0.00
90 TM	Octachlorocyclopentene	0.229	0.256		-11.8	98	0.00
91 IR	d10-Phenanthrene	1.000	1.000		0.0	89	0.00
92 TM	Thionazin	0.135	0.139		-3.0	94	0.00
93 TM	4,6-Dinitro-2-methylphenol	0.146	0.158	-8.3	<del>-8.2</del>	92	0.00
94 TM	Diphenylamine	0.622	0.653		-5.0	99	0.00
95 TM	1,2 Diphenylhydrazine	0.763	0.784		-2.8	99	0.00
96 TCM	N-Nitrosodiphenylamine	0.622	0.653		-5.0	99	0.00
97 TM	1,3,5-Trinitrobenzene	0.080	0.088		-10.0	95	0.01
98 TM	Diallate	0.271	0.282		-4.1	98	0.00
99 TM	Phorate	0.141	0.154		-9.2	96	0.00
100 TM	Phenacetin	0.398	0.454		-14.1	100	0.01
101 TM	4-Bromophenyl-phenylether	0.224	0.226		-0.9	97	0.00

Data Path : I:\ACQUADATA\5973D\Data\031418\  
 Data File : BN216.D  
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 Operator : J.Misiurewicz  
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 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
 Quant Method : I:\ACQUADATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
102	TM Hexachlorobenzene	0.277	0.288		-4.0	98	0.00
103	TM Dimethoate	0.265	0.285		-7.5	97	0.00
104	TM Atrazine	0.101	0.111		-9.9	94	0.00
105	TCM Pentachlorophenol	0.169	0.182	-8.0	<del>-7.7</del>	99	0.00
106	TM 4-Aminobiphenyl	0.802	0.907		-13.1	96	0.00
107	TM Pentachloronitrobenzene	0.098	0.112		-14.3	99	0.00
108	TM Pronamide	0.361	0.418		-15.8	99	0.00
109	TM Dinoseb	0.201	0.220		-9.5	91	0.00
110	TM Disulfoton	0.265	0.280		-5.7	98	0.00
111	TM Phenanthrene	1.128	1.236		-9.6	99	0.00
112	TM Anthracene	1.119	1.259		-12.5	99	0.00
113	TM Carbazole	1.121	1.299		-15.9	100	0.00
114	TM Di-n-butylphthalate	1.416	1.668		-17.8	98	0.00
115	TM 4-Nitroquinoline-1-oxide	0.102	0.098		3.9	82	0.00
116	TCM Fluoranthene	1.241	1.416		-14.1	98	0.00
117	IR d12-Chrysene	1.000	1.000		0.0	91	0.00
118	TM Methyl Parathion	0.216	0.251		-16.2	96	0.00
119	TM Ethyl Parathion	0.150	0.170		-13.3	94	0.00
120	TM Methapyrilene	0.266	0.267		-0.4	90	0.00
121	TM Isodrin	0.119	0.130		-9.2	96	0.00
122	TM Benzidine	0.778	0.848		-9.0	95	0.00
123	TM Pyrene	1.204	1.365		-13.4	100	0.00
124	S SURR6, TERPHENYL-D14	0.897	1.017		-13.4	101	0.00
125	TM Aramite	0.140	0.161		-15.0	101	0.00
126	TM p-(Dimethylamino)azobenzene	0.338	0.386		-14.2	99	0.00
127	TM Chlorobenzilate	0.352	0.390		-10.8	99	0.00
128	TM Butyl benzyl phthalate	0.640	0.718		-12.2	100	0.00
129	TM 3,3-Dimethylbenzidine	0.749	0.822		-9.7	94	0.00
130	TM 2-Acetylaminofluorene	0.496	0.567		-14.3	96	0.00
131	TM 3,3'-Dichlorobenzidine	0.448	0.498		-11.2	96	0.00
132	TM Benzo(a)anthracene	1.198	1.319		-10.1	100	0.00
133	TM Chrysene	1.132	1.236		-9.2	100	0.00
134	TM bis(2-Ethylhexyl)phthalate	0.880	1.013		-15.1	101	0.00
135	IR d12-Perylene	1.000	1.000		0.0	89	0.00
136	TCM Di-n-octyl phthalate	1.411	1.704		-20.8	100	0.00
137	TM 7,12-Dimethylbenz(a)anthrac	0.545	0.648		-18.9	99	0.00
138	TM Benzo(b)Fluoranthene	1.214	1.384		-14.0	98	0.02
139	TM Benzo(k)fluoranthene	1.155	1.334		-15.5	99	0.01
140	TCM Benzo(a)pyrene	1.036	1.192		-15.1	97	0.00
141	TM 3-Methylcholanthrene	0.588	0.686		-16.7	95	0.00
142	TM Indeno(1,2,3-cd)Pyrene	0.972	1.027		-5.7	93	0.01
143	TM Dibenz(a,h)anthracene	1.064	1.166		-9.6	95	0.01
144	TM Benzo(g,h,i)perylene	0.966	0.974		-0.8	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN216.D  
 Acq On : 14 Mar 2018 8:15 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	93658	40.00	ppm	0.00
33) d8-Naphthalene	6.005	136	381713	40.00	ppm	0.00
57) d10-Acenaphthene	7.711	164	202479	40.00	ppm	0.00
91) d10-Phenanthrene	9.176	188	328493	40.00	ppm	0.00
117) d12-Chrysene	12.492	240	348782	40.00	ppm	0.00
135) d12-Perylene	15.456	264	354824	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.779	112	284577	91.18	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	45.59%
12) SURR2,PHENOL-D6	4.502	99	333481	88.18	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	44.09%
34) SURR4,NITROBENZENE-D5	5.331	82	270412	85.47	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	85.47%
63) SURR5,2-FLUOROBIPHENYL	7.042	172	616078	88.27	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	88.27%
88) SURR3,2,4,6-TRIBROMOPH...	8.492	330	102890	88.32	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	44.16%
124) SURR6,TERPHENYL-D14	10.882	244	709613	90.75	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	90.75%

Target Compounds						Qvalue
2) Pyridine	2.843	79	271769	91.620	ppm	98
3) N-Nitrosodimethylamine	2.806	74	134976	90.519	ppm	95
4) 2-Picoline	3.362	93	276559	89.111	ppm	99
5) N-Nitrosomethylamine	3.432	42	115570	85.338	ppm	97
6) Methyl Methansulfonate	3.651	80	137086	84.263	ppm	97
8) N-Nitrosodiethylamine	3.956	102	113956	85.260	ppm	100
9) Ethyl Mathanesulfonate	4.181	79	191840	86.874	ppm	98
10) Benzaldehyde	4.469	106	170754	85.123	ppm	96
11) Aniline	4.555	93	473963	88.437	ppm	97
13) Phenol	4.518	94	327012	87.116	ppm	97
14) bis(2-Clethyl)Ether	4.598	93	238831	87.533	ppm	98
15) Pentachloroethane	4.603	117	102533	86.466	ppm	96
16) 2-Chlorophenol	4.657	128	282919	87.404	ppm	97
17) 1,3-Diclbzene	4.790	146	304991	87.894	ppm	96
18) 1,4-Dichlorobenzene	4.855	146	313832	87.162	ppm	96
19) 1,2-Diclbzene	4.988	146	295915	86.762	ppm	98
20) Benzyl Alcohol	4.951	79	213284	90.006	ppm	99
21) 1-Methyl-2-pyrrolidinone	5.020	99	175460	92.325	ppm	97
22) 2,2'-oxybis(1-Chloropr...	5.063	45	236994	85.081	ppm	94
23) 2-Methylphenol	5.047	108	245863	87.533	ppm	98
24) 3+4-Methylphenol	5.186	108	260076	87.366	ppm	99
25) Acetophenone	5.191	105	374209	88.467	ppm	94
26) N-Nitroso-Di-n-propyla...	5.186	70	181720	86.741	ppm	95
27) N-Nitrosopyrrolidine	5.181	100	139830	87.304	ppm	86
28) N-Nitrosomorpholine	5.208	56	135881	86.332	ppm	94
29) o-Toluidine	5.224	106	410302	85.482	ppm	99
30) Hexachloroethane	5.288	117	121430	87.269	ppm	100
31) o,o,o-Triethylphosphor...	5.732	198	128365	87.713	ppm	87
32) Alpha-terpinol	6.026	121	98078	86.741	ppm	92
35) Nitrobenzene	5.347	77	276531	86.331	ppm	91
36) N-Nitrosopiperidine	5.491	42	144990	84.123	ppm	95
37) Isophorone	5.566	82	490662	87.026	ppm	98
38) 2-Nitrophenol	5.641	139	154836	89.165	ppm	99



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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.769	105	178509	79.273	ppm	96
40) 2,4-Dimethylphenol	5.678	107	277580	87.844	ppm	93
41) bis(-2-Chloroethoxy)Me...	5.758	93	296583	85.606	ppm	98
42) 2,4-Dichlorophenol	5.876	162	226735	87.952	ppm	97
43) a,a-Dimethylphenethyla...	6.005	58	526301m	86.703	ppm	
44) 1,2,4-Trichlorobenzene	5.946	180	255860	85.947	ppm	99
45) Naphthalene	6.026	128	800780	84.126	ppm	100
46) 4-Chloroaniline	6.074	127	325037	83.838	ppm	99
47) 2,6-Dichlorophenol	6.085	162	243446	88.028	ppm	96
48) Hexachlorobutadiene	6.133	225	146508	86.335	ppm	96
49) Hexachloropropene	6.106	213	178423	85.675	ppm	97
50) 4-Chloro-3-methylphenol	6.539	107	227243	87.356	ppm	99
51) N-N-di-n-butylamine	6.390	84	177525	81.400	ppm	90
52) Caprolactam	6.432	113	82256	84.999	ppm	92
53) p-Phenylenediamine	6.432	80	9295	84.550	ppm	# 77
54) Safrole	6.598	162	204398	87.758	ppm	98
55) 2-Methylnaphthalene	6.689	142	537440	85.466	ppm	98
56) 1-Methylnaphthalene	6.785	142	506227	85.298	ppm	98
58) Hexachlorocyclopentadiene	6.834	237	160720	90.719	ppm	97
59) 1,2,4,5-Tetrachloroben...	6.850	216	266276	88.390	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.128	216	257626	89.230	ppm	99
61) 2,4,6-Trichlorophenol	6.962	196	166577	91.288	ppm	99
62) 2,4,5-Trichlorophenol	7.005	196	170122	89.389	ppm	99
64) Isosafrole	7.106	104	99295	87.055	ppm	92
65) 1,1'-Biphenyl	7.144	154	667215	87.100	ppm	99
66) 2-Chloronaphthalene	7.165	162	516590	87.602	ppm	98
67) 2-Nitroaniline	7.267	65	128818	88.018	ppm	92
68) 1,4-Naphthoquinone	7.342	158	168189	90.773	ppm	89
69) m-Dinitrobenzene	7.475	168	87937	84.888	ppm	98
70) Acenaphthylene	7.572	152	829374	89.144	ppm	99
71) Dimethyl phthalate	7.443	163	571056	83.512	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	133175	88.657	ppm	93
73) Acenaphthene	7.743	153	556846	87.792	ppm	97
74) 3-Nitroaniline	7.673	138	149465	88.401	ppm	94
75) 2,4-Dinitrophenol	7.775	184	54610	78.354	ppm	96
76) Dibenzofuran	7.914	168	727182	87.764	ppm	99
77) 2,4-Dinitrotoluene	7.903	165	179500	90.110	ppm	98
78) 4-Nitrophenol	7.844	65	94475	86.649	ppm	85
79) Pentachlorobenzene	7.871	250	242541	90.073	ppm	97
80) 1-Naphthylamine	7.994	143	336972	83.893	ppm	100
81) 2-Naphthylamine	8.069	143	460131	84.670	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.032	232	125950	87.617	ppm	97
83) Fluorene	8.251	166	574836	86.379	ppm	100
84) 4-Chlorophenyl-phenyle...	8.246	204	263730	88.259	ppm	94
85) Diethylphthalate	8.133	149	602170	87.471	ppm	98
86) 4-Nitroaniline	8.278	138	173968	90.226	ppm	98
87) 5-Nitro-o-toluidine	8.267	152	173195	89.706	ppm	93
89) Sulfotepp	8.513	322	102228	94.153	ppm	95
90) Octachlorocyclopentene	8.497	307	103746	89.363	ppm	98
92) Thionazin	8.213	107	91168	81.955	ppm	98
93) 4,6-Dinitro-2-methylph...	8.304	198	103601	86.661	ppm	99
94) Diphenylamine	8.369	169	857831	167.871	ppm	100
95) 1,2 Diphenylhydrazine	8.401	77	514878	82.187	ppm	99
96) N-Nitrosodiphenylamine	8.369	169	857831	167.874	ppm	100
97) 1,3,5-Trinitrobenzene	8.647	213	58019	87.828	ppm	# 16
98) Diallate	8.641	86	185237	83.134	ppm	82

Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN216.D  
 Acq On : 14 Mar 2018 8:15 am  
 Operator : J.Misiurewicz  
 Sample : CCV  
 Misc : 80 ppm STD 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

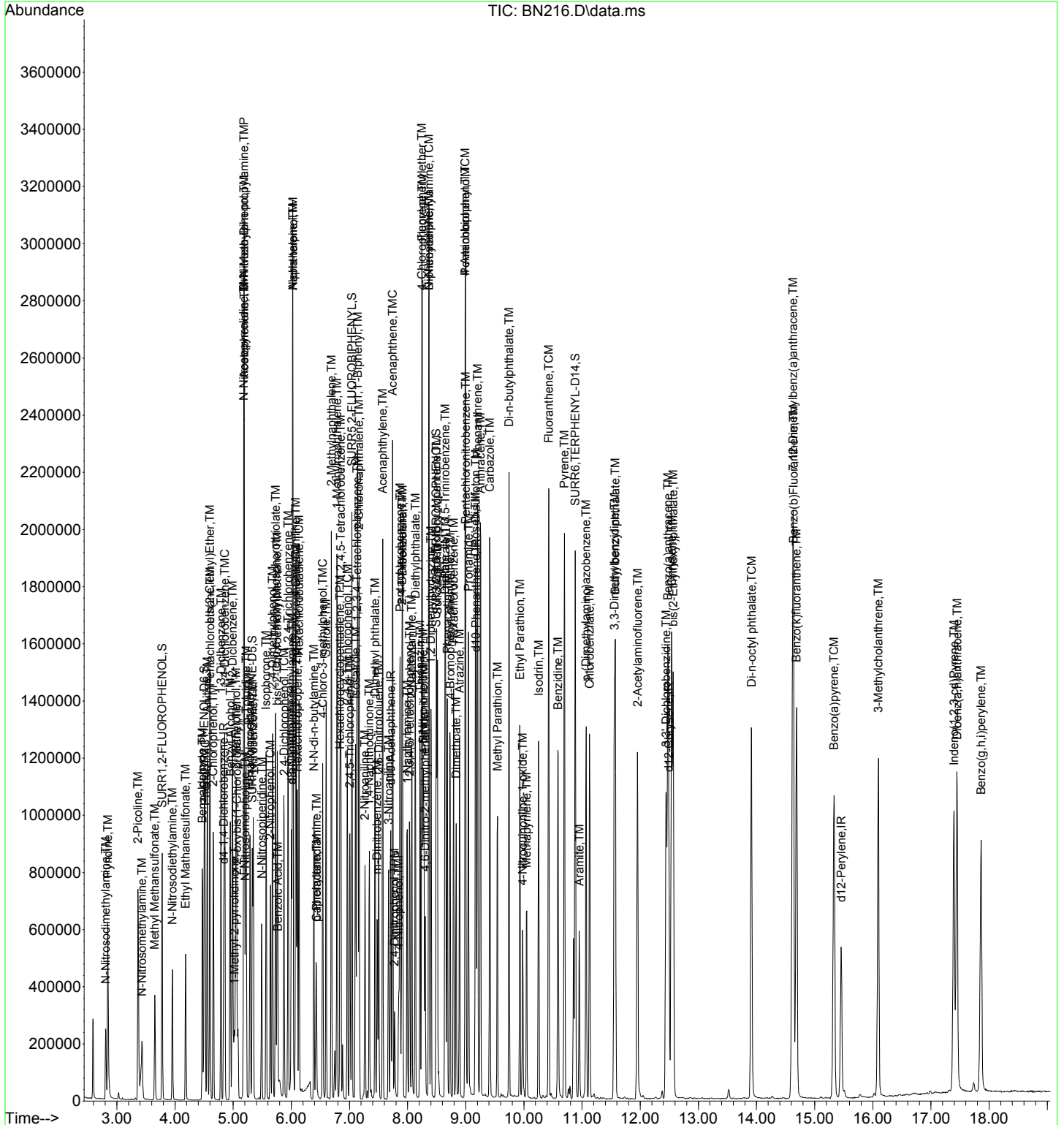
Quant Time: Mar 14 09:14:05 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.652	121	101140	87.178	ppm	85
100) Phenacetin	8.684	108	298081	91.118	ppm	95
101) 4-Bromophenyl-phenylether	8.732	248	148601	80.646	ppm	96
102) Hexachlorobenzene	8.791	284	189201	83.110	ppm	95
103) Dimethoate	8.834	87	187218	86.178	ppm	99
104) Atrazine	8.893	215	73143	88.341	ppm	88
105) Pentachlorophenol	8.989	266	119757	86.429	ppm	96
106) 4-Aminobiphenyl	8.989	169	595879	90.466	ppm	100
107) Pentachloronitrobenzene	9.000	237	73391	90.918	ppm	99
108) Pronamide	9.048	173	274571	92.487	ppm	99
109) Dinoseb	9.166	211	144826	87.677	ppm	95
110) Disulfoton	9.171	88	184272	84.695	ppm	99
111) Phenanthrene	9.203	178	812297	87.704	ppm	100
112) Anthracene	9.256	178	827167	89.979	ppm	100
113) Carbazole	9.412	167	853544	92.696	ppm	99
114) Di-n-butylphthalate	9.743	149	1096061	94.223	ppm	99
115) 4-Nitroquinonline-1-oxide	9.979	190	64618	76.823	ppm	97
116) Fluoranthene	10.428	202	930034	91.261	ppm	98
118) Methyl Parathion	9.545	109	175316	93.031	ppm	92
119) Ethyl Parathion	9.930	97	118800	91.095	ppm	94
120) Methapyrilene	10.043	58	186134	80.327	ppm	98
121) Isodrin	10.251	193	91000	87.607	ppm	94
122) Benzidine	10.588	184	591565	87.249	ppm	98
123) Pyrene	10.695	202	952012	90.686	ppm	99
125) Aramite	10.952	185	112647m	92.584	ppm	
126) p-(Dimethylamino)azobe...	11.070	120	269282	91.386	ppm	96
127) Chlorobenzilate	11.129	139	271878	88.677	ppm	84
128) Butyl benzyl phthalate	11.572	149	501080	89.859	ppm	95
129) 3,3-Dimethylbenzidine	11.556	212	573464	87.842	ppm	99
130) 2-Acetylaminofluorene	11.952	181	395724	91.438	ppm	98
131) 3,3'-Dichlorobenzidine	12.444	252	347500	88.929	ppm	97
132) Benzo(a)anthracene	12.476	228	920084	88.113	ppm	99
133) Chrysene	12.541	228	862350	87.365	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.567	149	706547	92.083	ppm	98
136) Di-n-octyl phthalate	13.915	149	1209479	96.665	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.627	256	459518	95.122	ppm	97
138) Benzo(b)Fluoranthene	14.637	252	981947	91.208	ppm	99
139) Benzo(k)fluoranthene	14.691	252	946576	92.379	ppm	99
140) Benzo(a)pyrene	15.333	252	845947	92.047	ppm	98
141) 3-Methylcholanthrene	16.097	268	486981	93.328	ppm	97
142) Indeno(1,2,3-cd)Pyrene	17.397	276	728915	84.538	ppm	88
143) Dibenz(a,h)anthracene	17.451	278	827546	87.695	ppm	95
144) Benzo(g,h,i)perylene	17.862	276	690957	80.652	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

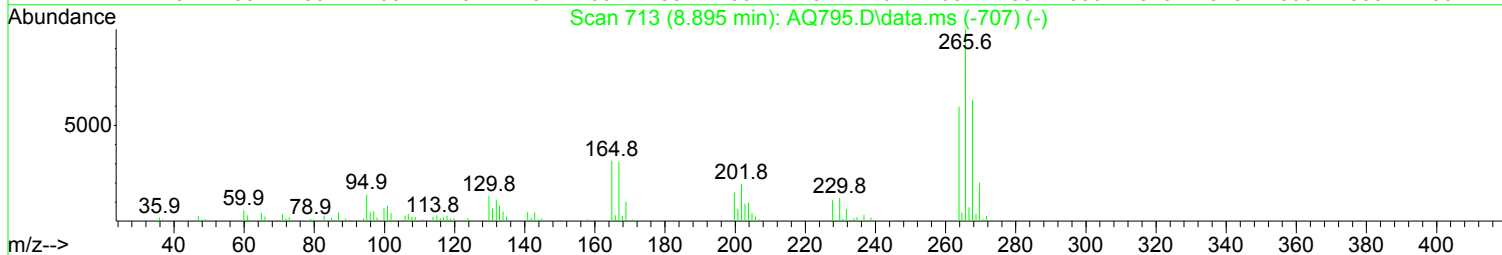
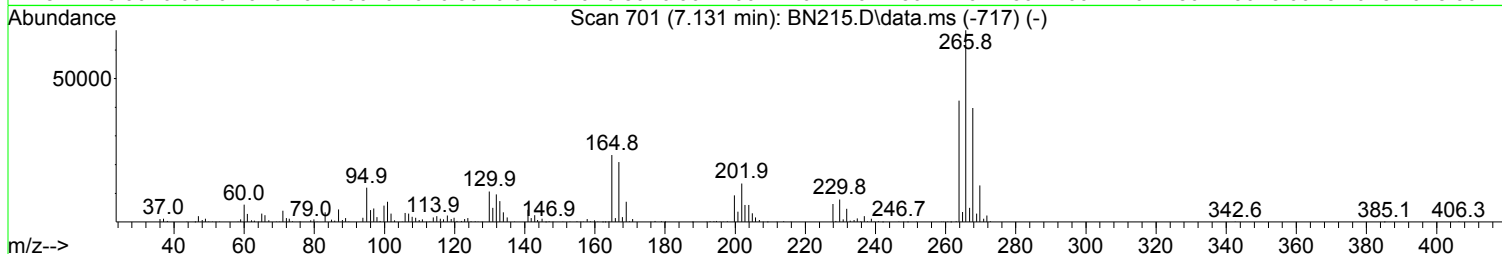
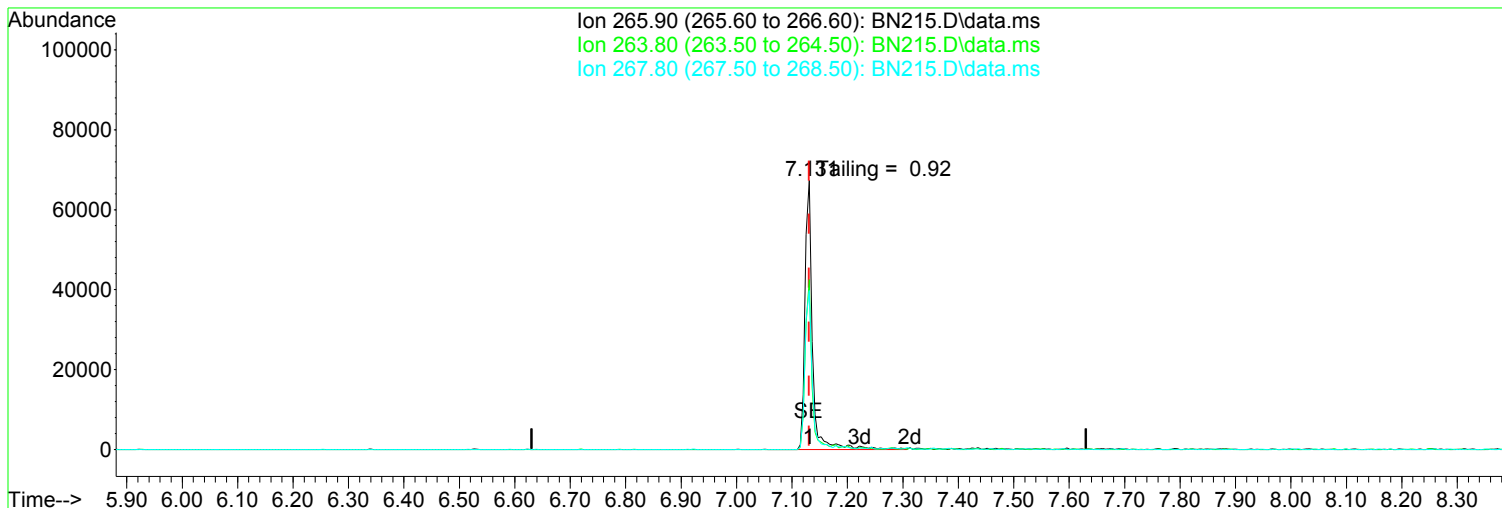
Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN216.D  
Acq On : 14 Mar 2018 8:15 am  
Operator : J.Misiurewicz  
Sample : CCV  
Misc : 80 ppm STD 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 14 09:14:05 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN215.D  
 Acq On : 14 Mar 2018 7:36 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 14 08:01:06 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Fri Mar 09 12:35:53 2018  
 Response via : Initial Calibration



TIC: BN215.D\data.ms

(5) Pentachlorophenol (TCM)

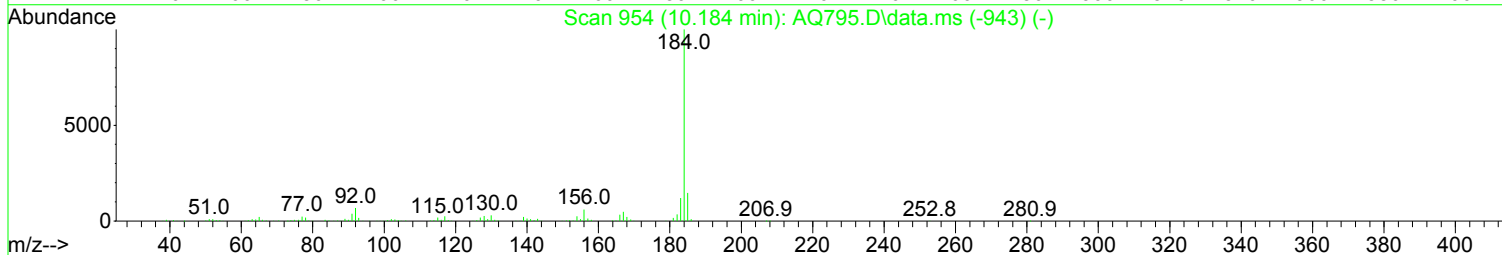
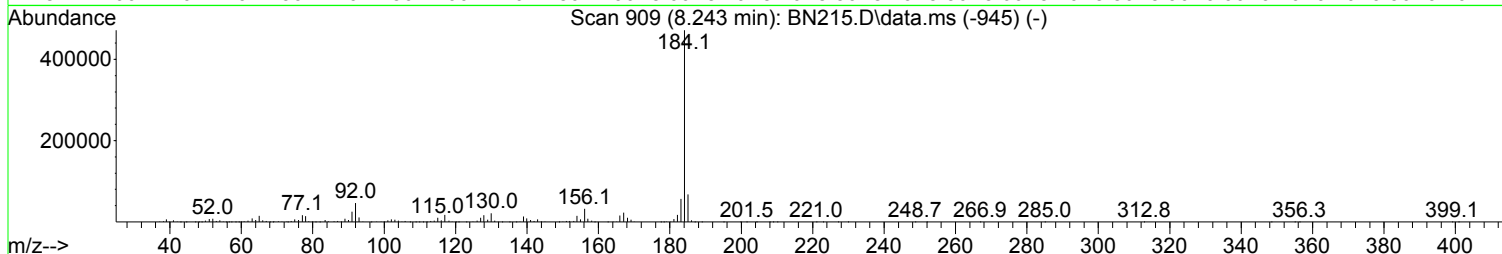
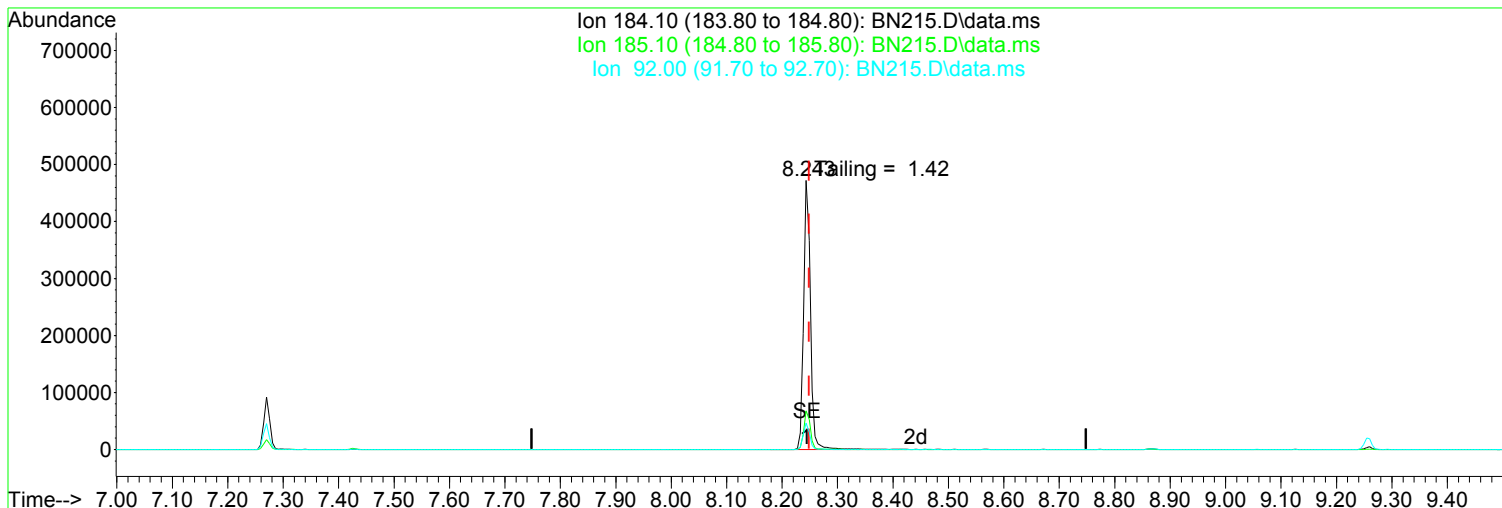
7.131min (+ 0.000) 46.96 ppm

response	61329
Ion	Exp% Act%
265.90	100.00 100.00
263.80	57.70 63.21
267.80	58.60 59.18
0.00	0.00 0.00

Manual Integration:  
 After  
 Other - Tailing  
 03/15/18

Data Path : I:\ACQUDATA\5973D\Data\031418\  
Data File : BN215.D  
Acq On : 14 Mar 2018 7:36 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 14 08:01:06 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Fri Mar 09 12:35:53 2018  
Response via : Initial Calibration



TIC: BN215.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.243min (-0.005) 46.48 ppm

After

response 400592

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.34
92.00	8.00	9.85
0.00	0.00	0.00

03/15/18

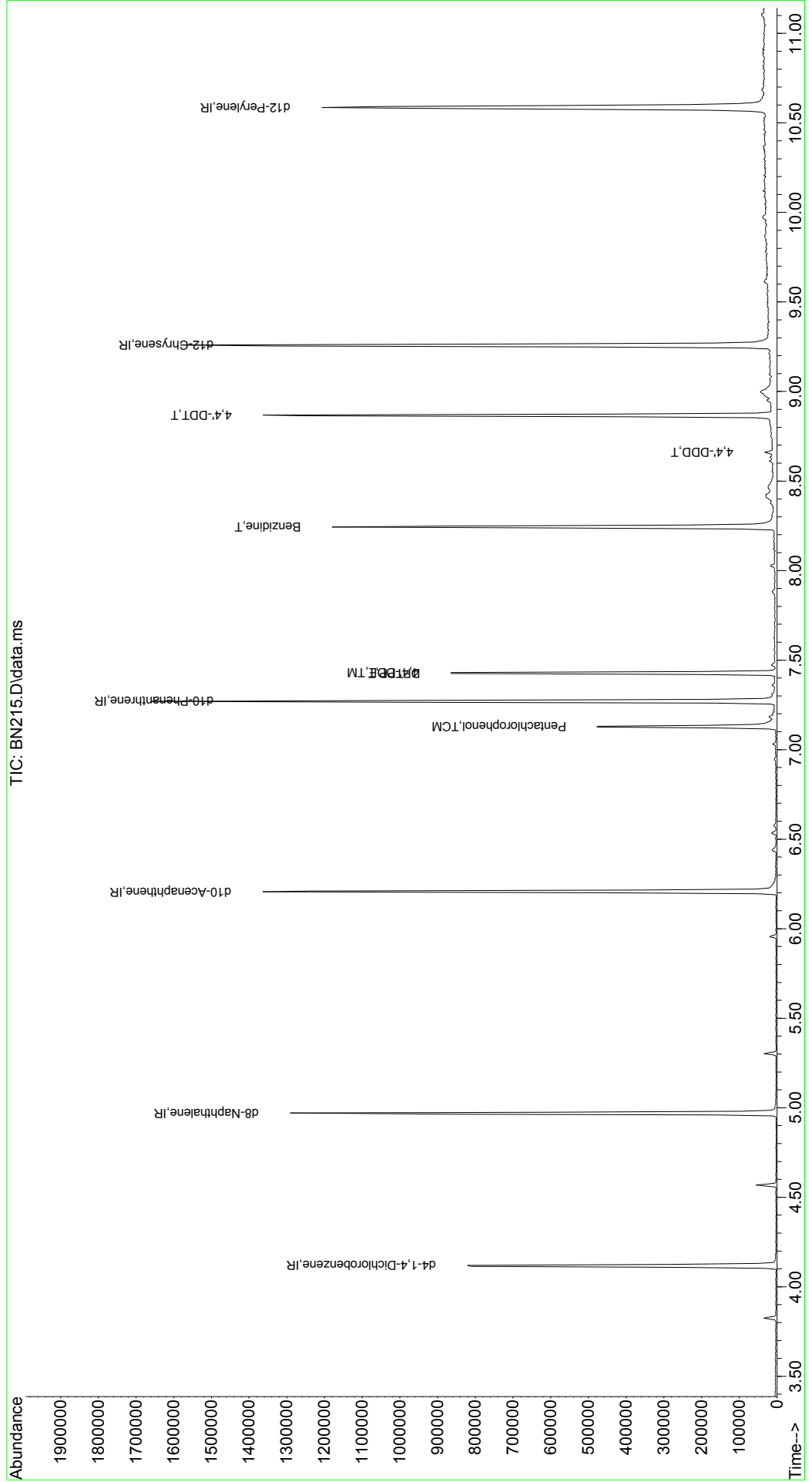
Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN215.D  
 Acq On : 14 Mar 2018 7:36 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 14 08:01:06 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Fri Mar 09 12:35:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.120	152	125853	40.00	ppm	0.00	
2) d8-Naphthalene	4.970	136	477421	40.00	ppm	0.00	
3) d10-Acenaphthene	6.206	164	255037	40.00	ppm	0.00	
4) d10-Phenanthrene	7.270	188	492719	40.00	ppm	0.00	
7) d12-Chrysene	9.260	240	477396	40.00	ppm	0.00	
12) d12-Perylene	10.586	264	499183	40.00	ppm	0.00	
Target Compounds							
5) Pentachlorophenol	7.131	266	61329	46.963	ppm		Qvalue 96
6) DFTPP	7.425	198	72120	49.901	ppm		68
8) Benzidine	8.243	184	400592	46.483	ppm		97
9) 4,4'-DDE	7.430	246	1217	0.280	ppm		76
10) 4,4'-DDD	8.661	235	2262	0.520	ppm		76
11) 4,4'-DDT	8.869	235	217427	49.980	ppm		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

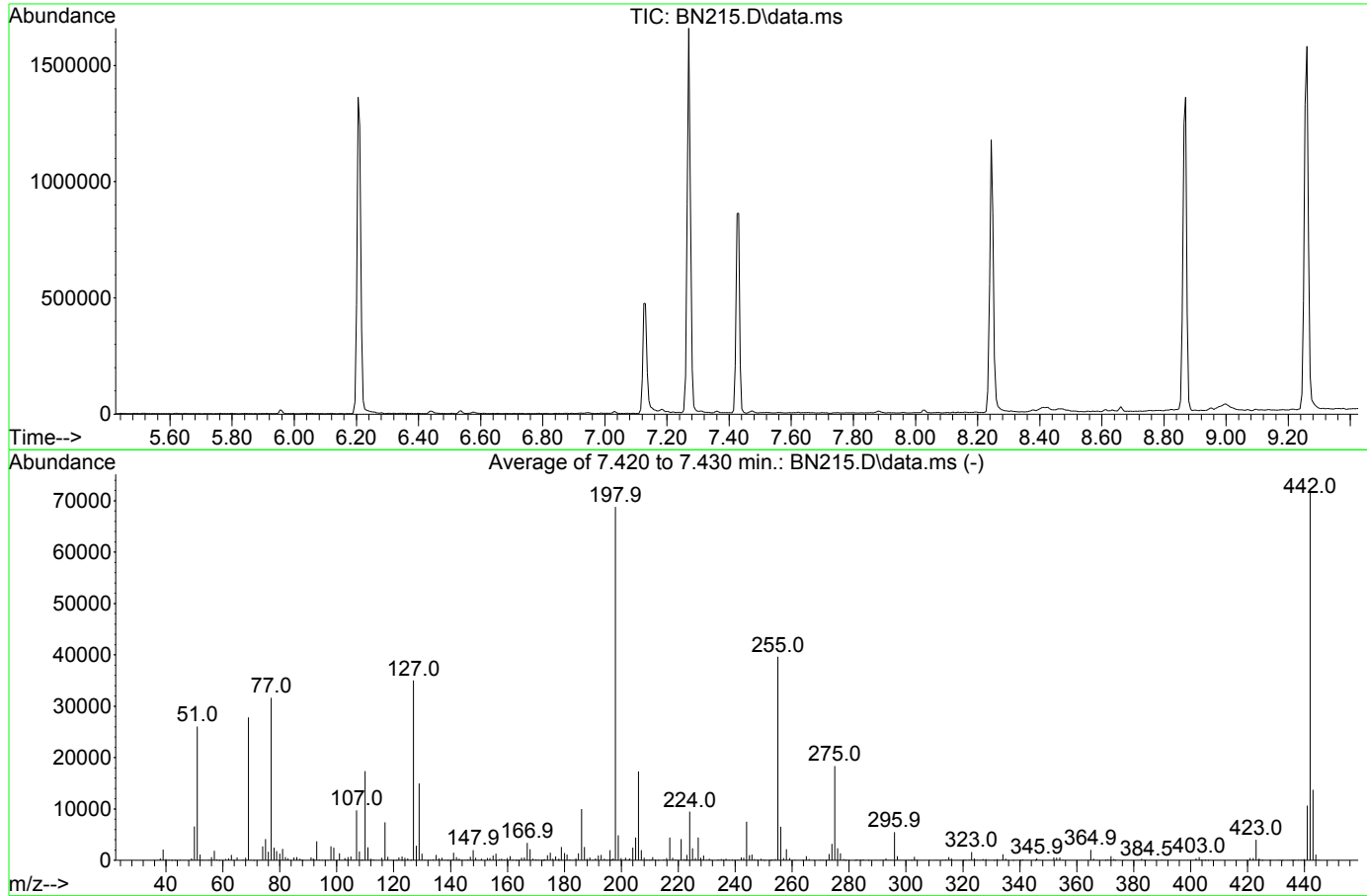
Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN215.D  
 Acq On : 14 Mar 2018 7:36 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1  
 Quant Time: Mar 14 08:01:06 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Fri Mar 09 12:35:53 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN215.D  
 Acq On : 14 Mar 2018 7:36 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Tue Apr 01 09:41:30 2014



AutoFind: Scans 755, 756, 757; Background Corrected with Scan 751

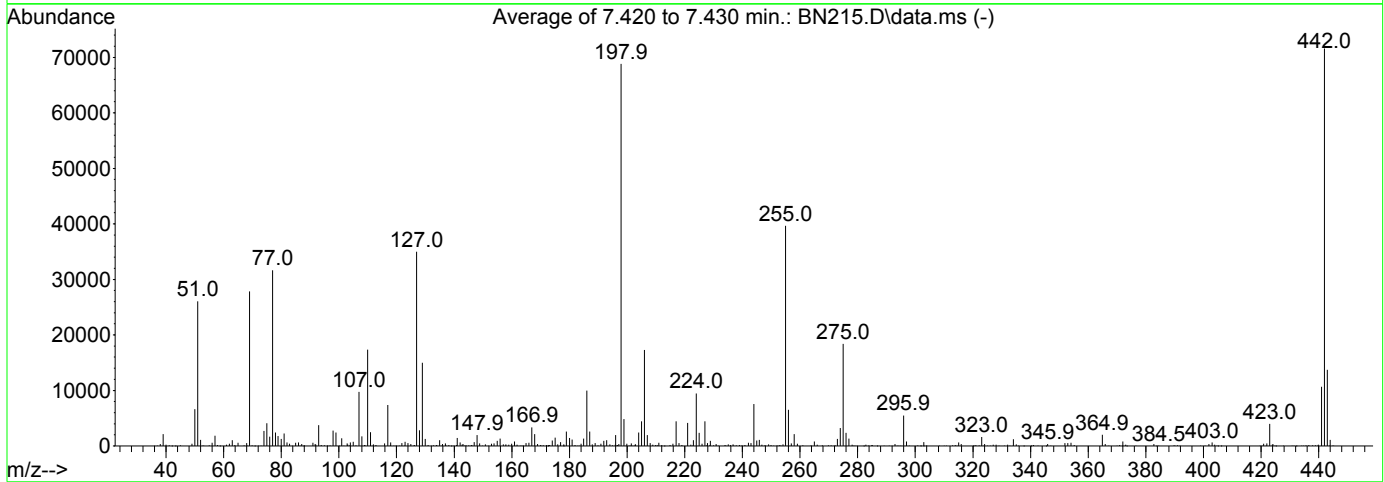
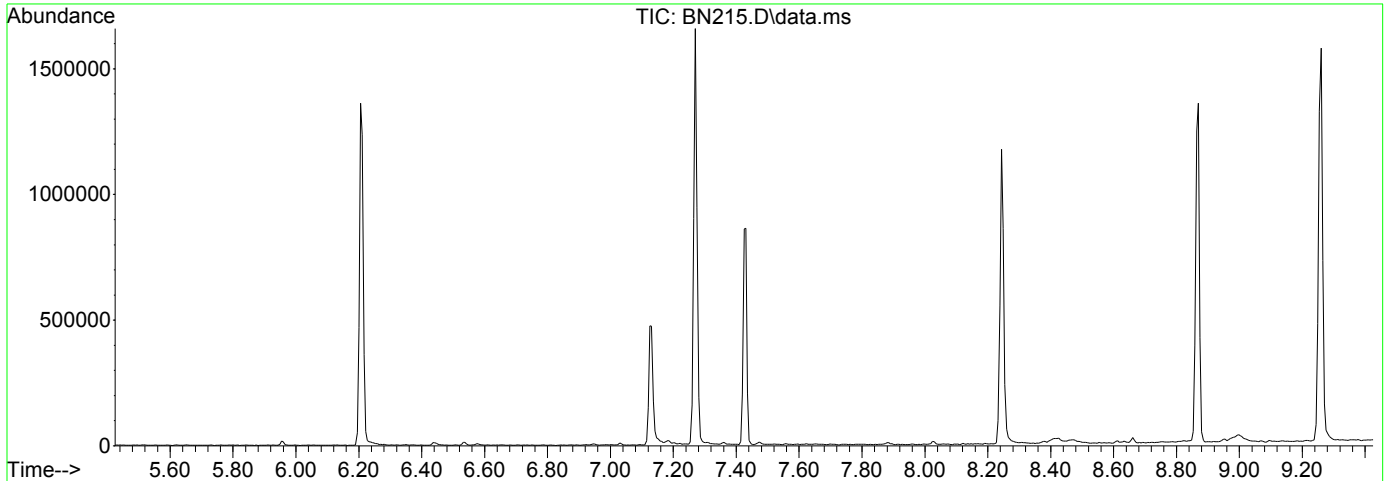
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.9	26056	PASS
68	69	0.00	2	1.8	492	PASS
69	198	0.00	100	40.5	27840	PASS
70	69	0.00	2	0.5	130	PASS
127	198	40	60	50.9	35023	PASS
197	198	0.00	1	0.5	356	PASS
198	198	100	100	100.0	68821	PASS
199	198	5	9	7.0	4850	PASS
275	198	10	30	26.7	18379	PASS
365	198	1	500	3.0	2045	PASS
441	443	0.01	100	77.6	10641	PASS
442	198	50	500	104.0	71591	PASS
443	442	17	23	19.1	13709	PASS



Data Path : I:\ACQUDATA\5973D\Data\031418\  
 Data File : BN215.D  
 Acq On : 14 Mar 2018 7:36 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Fri Mar 09 12:35:53 2018



AutoFind: Scans 755, 756, 757; Background Corrected with Scan 751

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.9	26056	PASS
68	69	0.00	2	1.8	492	PASS
70	69	0.00	2	0.5	130	PASS
127	198	10	80	50.9	35023	PASS
197	198	0.00	2	0.5	356	PASS
198	198	100	100	100.0	68821	PASS
199	198	5	9	7.0	4850	PASS
275	198	10	60	26.7	18379	PASS
365	198	1	500	3.0	2045	PASS
441	442	0.01	24	14.9	10641	PASS
442	442	100	100	100.0	71591	PASS
443	442	15	24	19.1	13709	PASS

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN231.D  
 Acq On : 6 Mar 2018 4:28 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #2  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 13 Sample Multiplier: 1

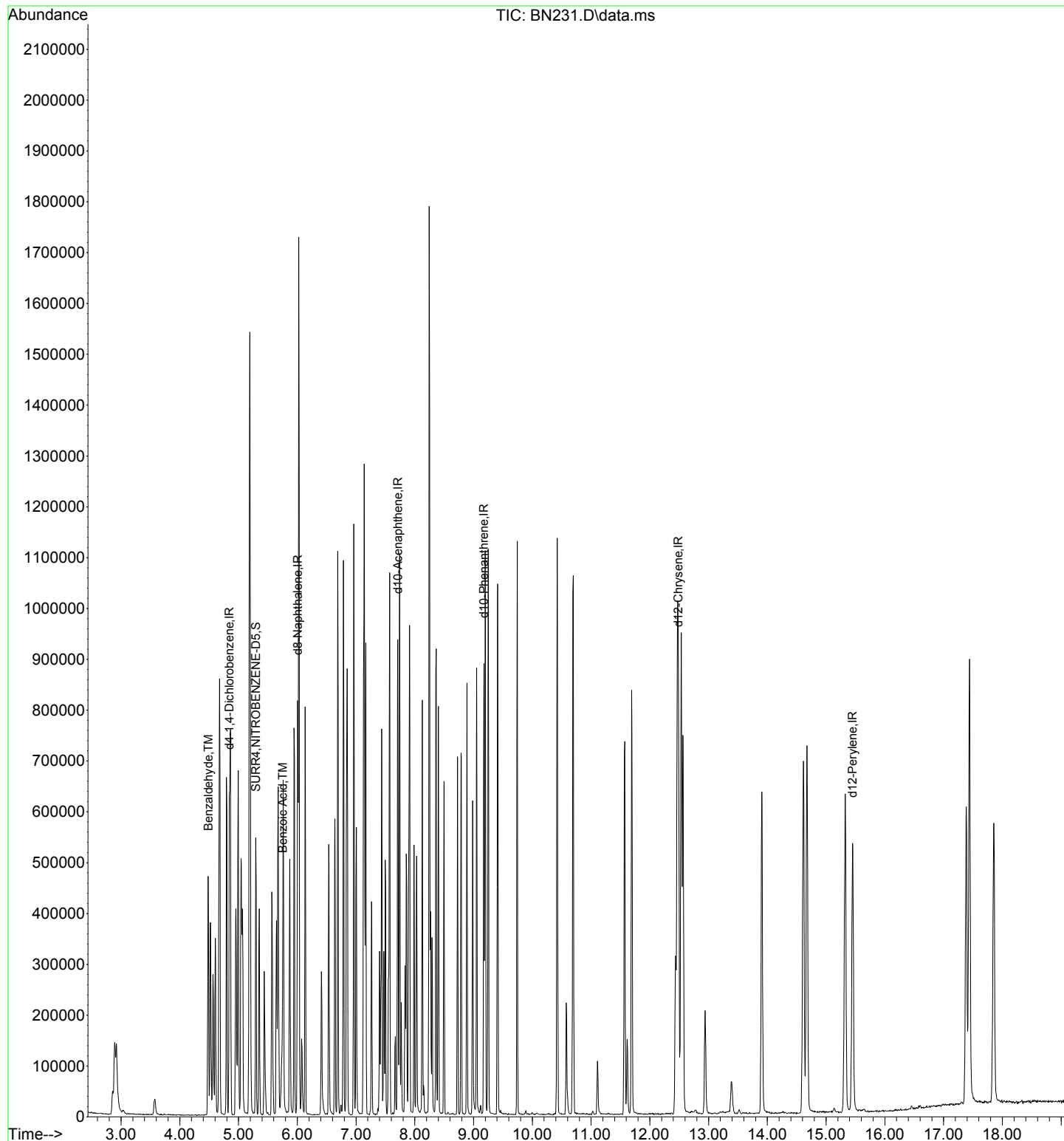
Quant Time: Mar 09 11:10:39 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.844	152	104326	40.00	ppm	0.00
33) d8-Naphthalene	6.005	136	441385	40.00	ppm	0.00
57) d10-Acenaphthene	7.711	164	199756	40.00	ppm	0.00
91) d10-Phenanthrene	9.176	188	322475	40.00	ppm	0.00
117) d12-Chrysene	12.487	240	361221	40.00	ppm	0.00
135) d12-Perylene	15.450	264	380130	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	0.00%#
12) SURR2,PHENOL-D6	0.000	99	0d	0.00	ppm	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	0.00%#
34) SURR4,NITROBENZENE-D5	5.293	82	16084	4.40	ppm	-0.04
Spiked Amount	100.000	Range	37 - 117	Recovery	=	4.40%#
63) SURR5,2-FLUOROBIPHENYL	0.000	172	0d	0.00	ppm	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	0.00%#
88) SURR3,2,4,6-TRIBROMOPH...	0.000	330	0d	0.00	ppm	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.00%#
124) SURR6,TERPHENYL-D14	0.000	244	0d	0.00	ppm	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	0.00%#
Target Compounds						
10) Benzaldehyde	4.486	106	120954	54.132	ppm	99
39) Benzoic Acid	5.753	105	113749	43.685	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

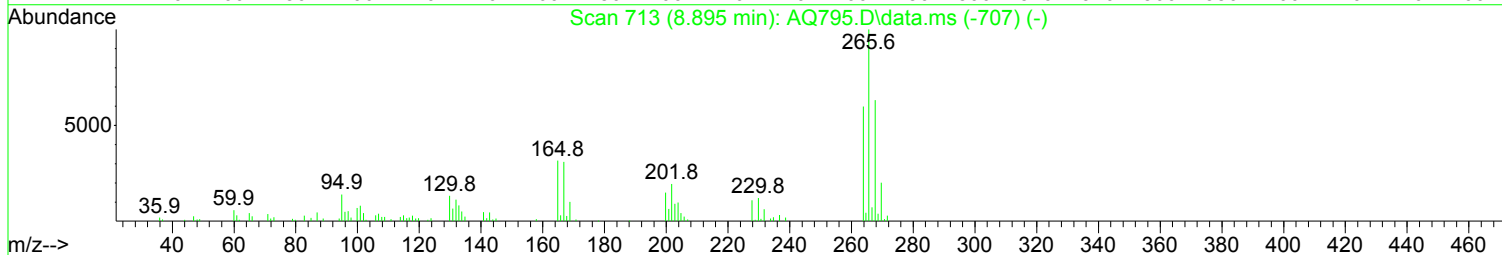
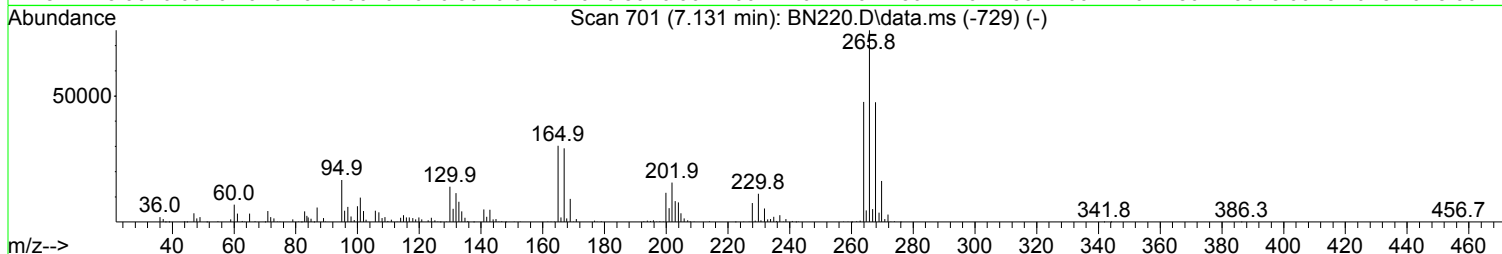
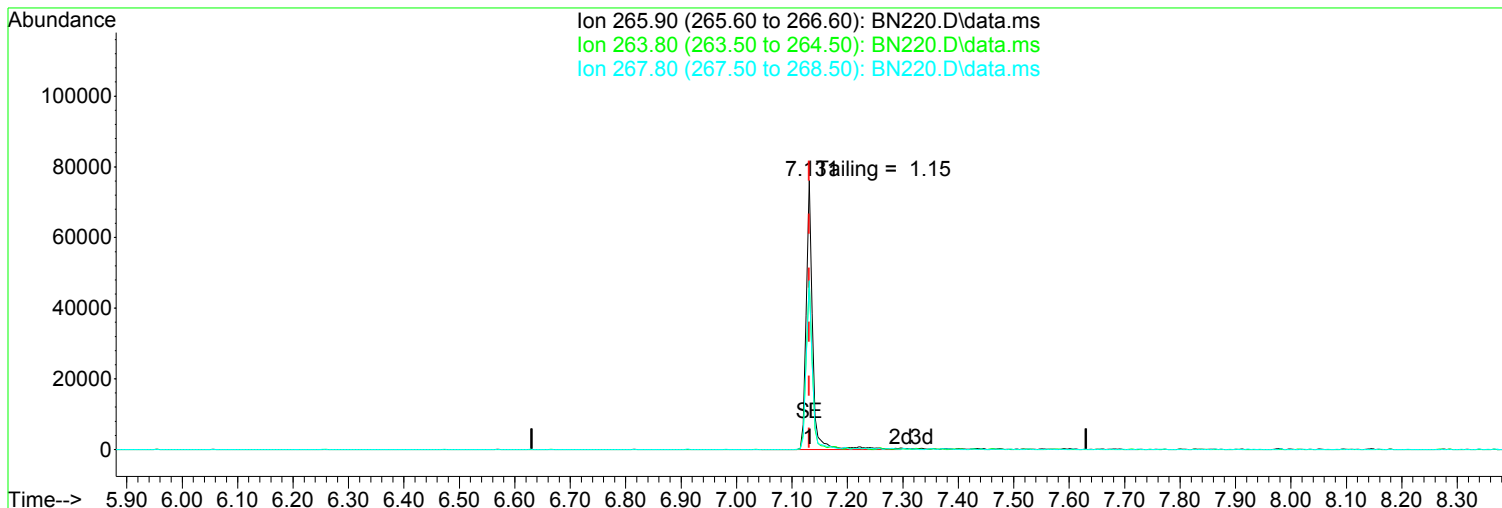
Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN231.D  
Acq On : 6 Mar 2018 4:28 pm  
Operator : J.Misiurewicz  
Sample : ICV #2  
Misc : Initial Calibration 8270D/625  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 09 11:10:39 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN220.D  
Acq On : 6 Mar 2018 11:03 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 09 12:36:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Fri Mar 09 12:35:53 2018  
Response via : Initial Calibration



TIC: BN220.D\data.ms

(5) Pentachlorophenol (TCM)

Manual Integration:

7.131min ( 0.000) 50.00 ppm

After

response 60618

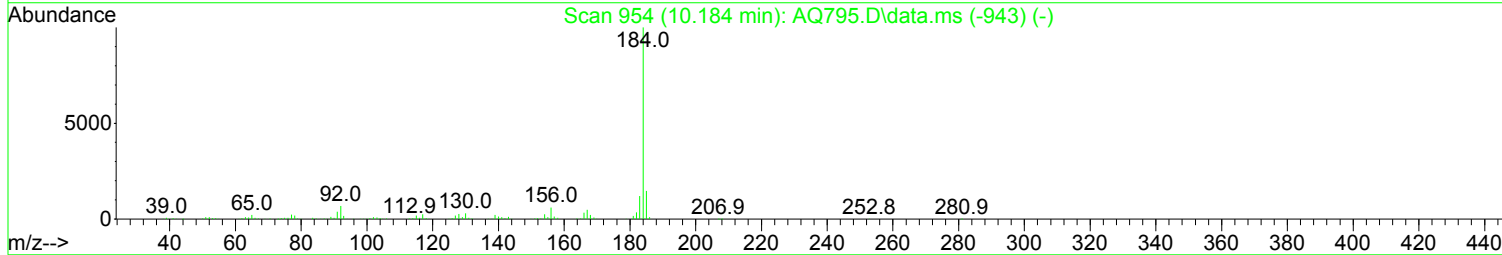
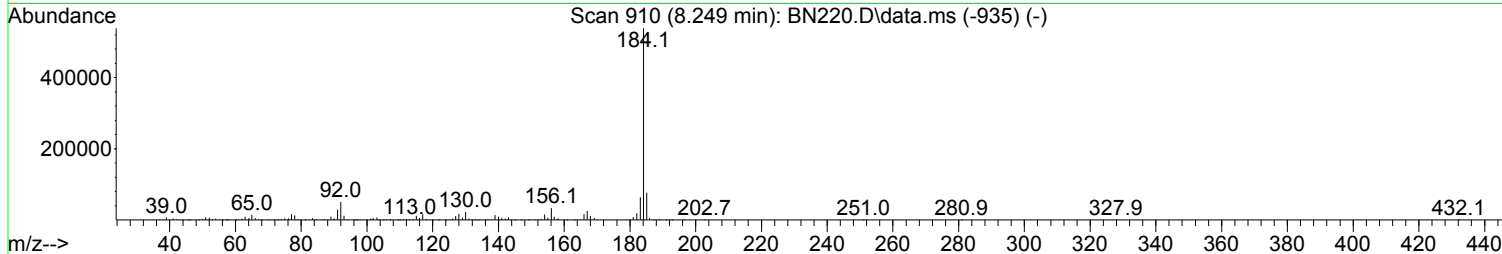
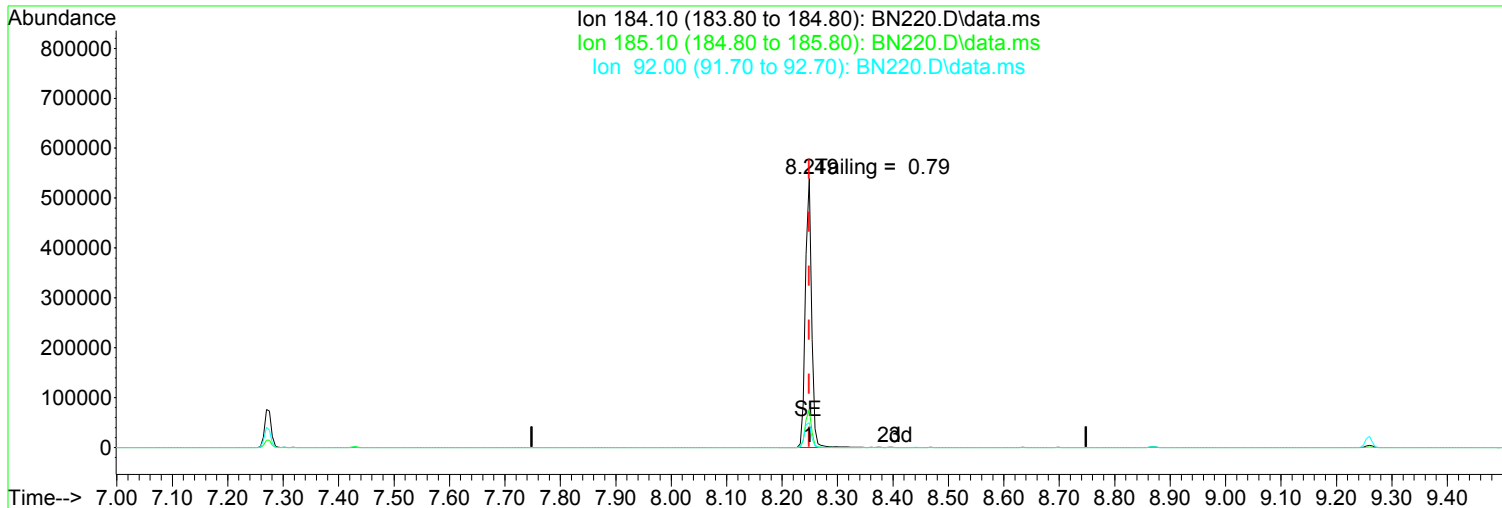
Other - Tailing

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	62.59
267.80	58.60	62.82
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN220.D  
Acq On : 6 Mar 2018 11:03 am  
Operator : J.Misiurewicz  
Sample : TUNE  
Misc : 50 ng DFTPP  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 09 12:36:18 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
Quant Title : TUNE CHECK  
QLast Update : Fri Mar 09 12:35:53 2018  
Response via : Initial Calibration



TIC: BN220.D\data.ms

(8) Benzidine (T)

Manual Integration:

8.249min ( 0.000) 50.00 ppm

After

response 419932

Other - Tailing

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.13
92.00	8.00	9.33
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN220.D  
 Acq On : 6 Mar 2018 11:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

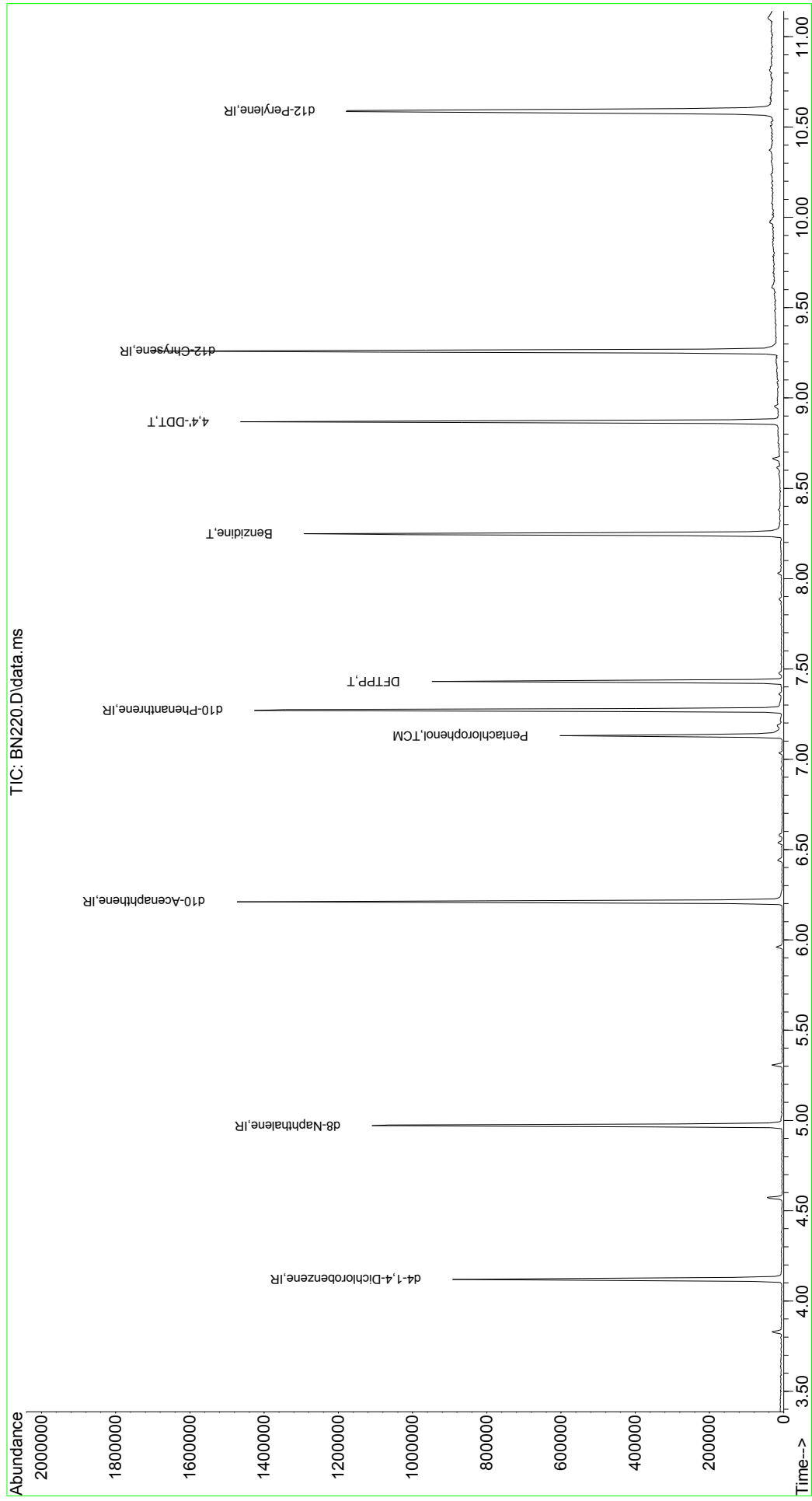
Quant Time: Mar 09 12:36:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Fri Mar 09 12:35:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.120	152	115608	40.00	ppm	0.00
2) d8-Naphthalene	4.970	136	448161	40.00	ppm	0.00
3) d10-Acenaphthene	6.211	164	244153	40.00	ppm	0.00
4) d10-Phenanthrene	7.270	188	457425	40.00	ppm	0.00
7) d12-Chrysene	9.260	240	465240	40.00	ppm	0.00
12) d12-Perylene	10.591	264	488082	40.00	ppm	0.00
Target Compounds						
5) Pentachlorophenol	7.131	266	60618	50.000	ppm	Qvalue 94
6) DFTPP	7.430	198	67087	50.000	ppm	91
8) Benzidine	8.249	184	419932	50.000	ppm	97
9) 4,4'-DDE	7.430	246	1396	N.D.		
10) 4,4'-DDD	0.000		0	N.D.	d	
11) 4,4'-DDT	8.869	235	211974	50.000	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN220.D  
 Acq On : 6 Mar 2018 11:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

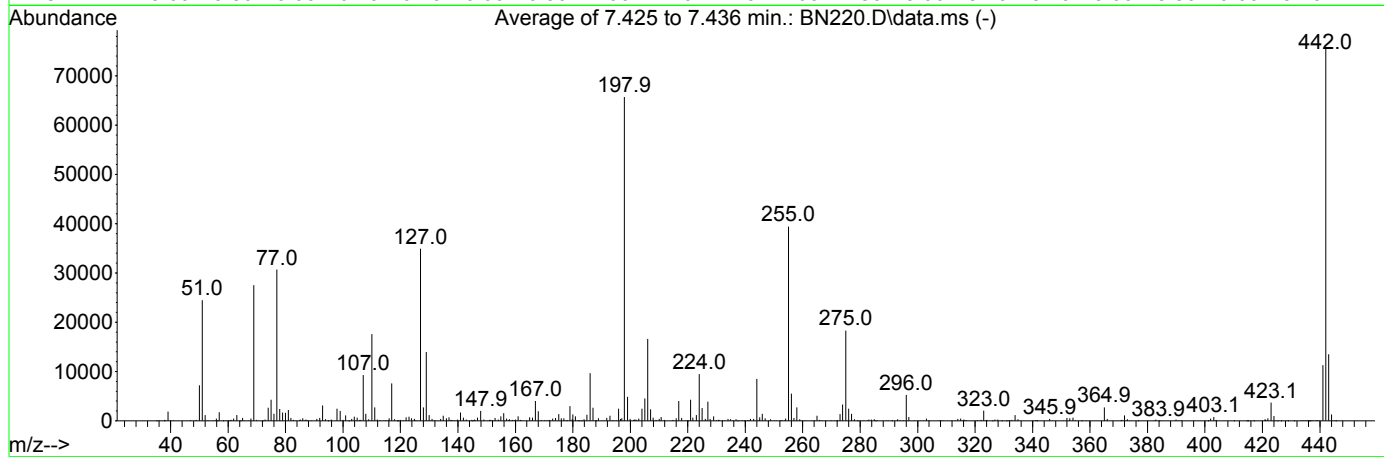
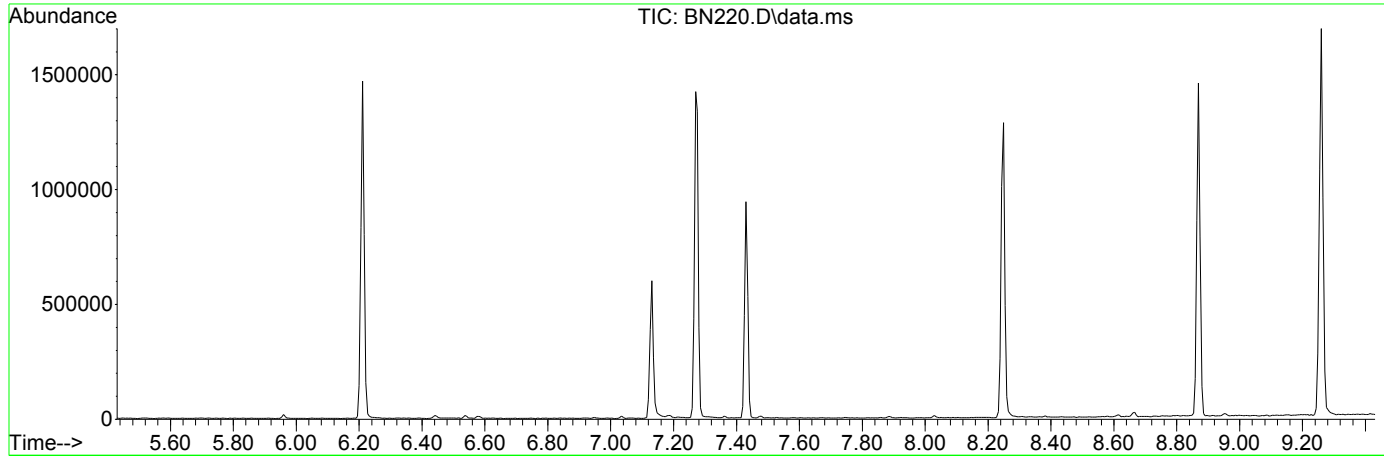
Quant Time: Mar 09 12:36:18 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Quant Title : TUNE CHECK  
 QLast Update : Fri Mar 09 12:35:53 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN220.D  
 Acq On : 6 Mar 2018 11:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M  
 Title : TUNE CHECK  
 Last Update : Tue Apr 01 09:41:30 2014



AutoFind: Scans 756, 757, 758; Background Corrected with Scan 751

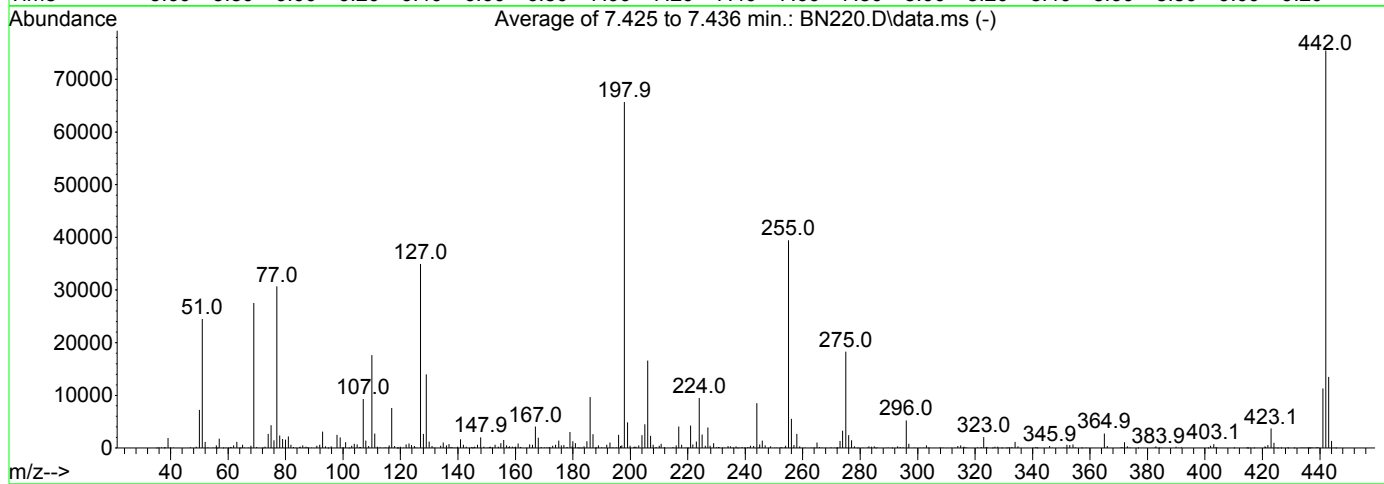
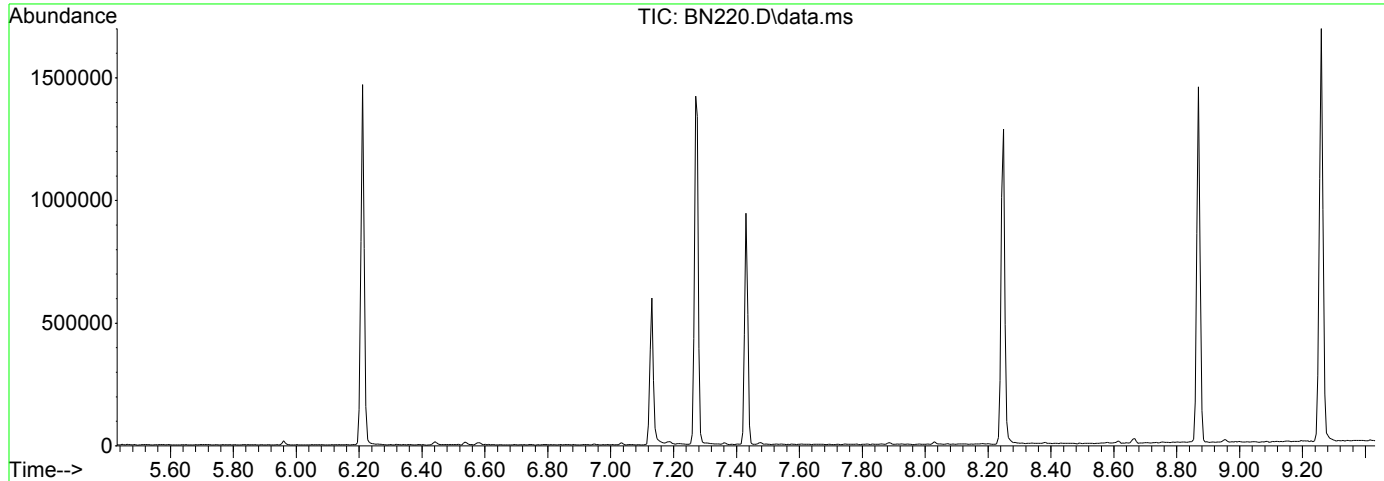
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.3	24496	PASS
68	69	0.00	2	1.6	454	PASS
69	198	0.00	100	41.9	27518	PASS
70	69	0.00	2	0.7	189	PASS
127	198	40	60	53.2	34947	PASS
197	198	0.00	1	0.8	518	PASS
198	198	100	100	100.0	65691	PASS
199	198	5	9	7.4	4872	PASS
275	198	10	30	27.9	18308	PASS
365	198	1	500	4.2	2760	PASS
441	443	0.01	100	83.8	11326	PASS
442	198	50	500	114.9	75491	PASS
443	442	17	23	17.9	13521	PASS



Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN220.D  
 Acq On : 6 Mar 2018 11:03 am  
 Operator : J.Misiurewicz  
 Sample : TUNE  
 Misc : 50 ng DFTPP  
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M  
 Title : TUNE CHECK  
 Last Update : Fri Mar 09 12:35:53 2018



AutoFind: Scans 756, 757, 758; Background Corrected with Scan 751

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	37.3	24496	PASS
68	69	0.00	2	1.6	454	PASS
70	69	0.00	2	0.7	189	PASS
127	198	10	80	53.2	34947	PASS
197	198	0.00	2	0.8	518	PASS
198	198	100	100	100.0	65691	PASS
199	198	5	9	7.4	4872	PASS
275	198	10	60	27.9	18308	PASS
365	198	1	500	4.2	2760	PASS
441	442	0.01	24	15.0	11326	PASS
442	442	100	100	100.0	75491	PASS
443	442	15	24	17.9	13521	PASS

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN221.D  
 Acq On : 6 Mar 2018 11:31 am  
 Operator : J.Misiurewicz  
 Sample : BLK  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 11:08:33 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

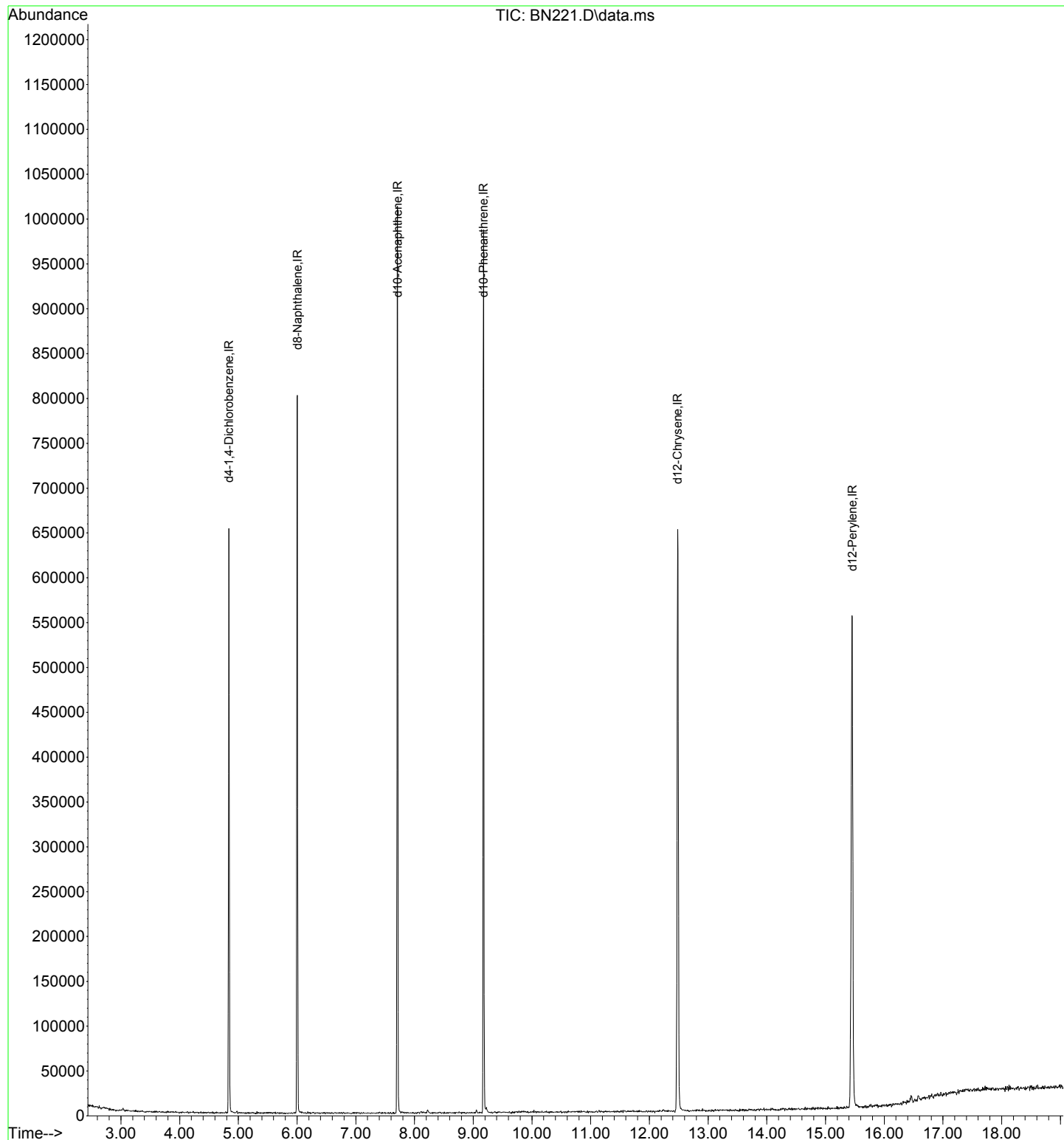
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	100881	40.00	ppm	0.00
33) d8-Naphthalene	6.004	136	386472	40.00	ppm	0.00
57) d10-Acenaphthene	7.711	164	214305	40.00	ppm	0.00
91) d10-Phenanthrene	9.176	188	348743	40.00	ppm	0.00
117) d12-Chrysene	12.482	240	336132	40.00	ppm	0.00
135) d12-Perylene	15.456	264	380729	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	0.00%#
12) SURR2,PHENOL-D6	0.000	99	0	0.00	ppm	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	0.00%#
34) SURR4,NITROBENZENE-D5	0.000	82	0	0.00	ppm	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	0.00%#
63) SURR5,2-FLUOROBIPHENYL	0.000	172	0	0.00	ppm	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	0.00%#
88) SURR3,2,4,6-TRIBROMOPH...	0.000	330	0	0.00	ppm	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	0.00%#
124) SURR6,TERPHENYL-D14	10.877	244	230	0.03	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	0.03%#

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

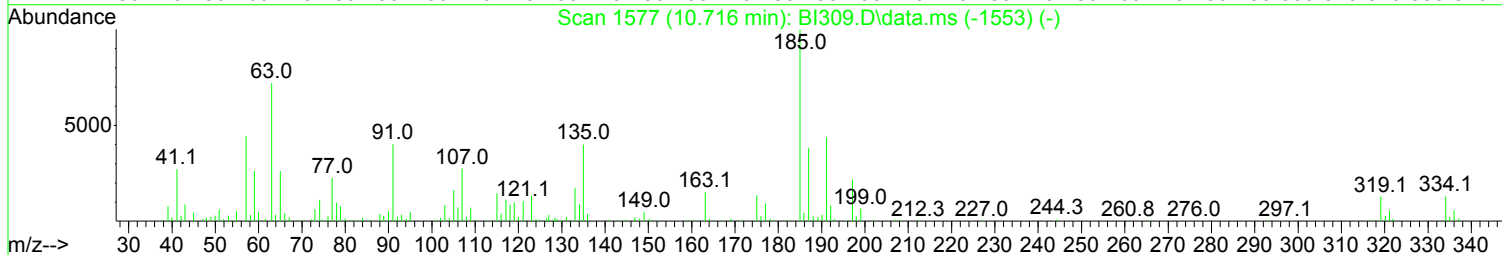
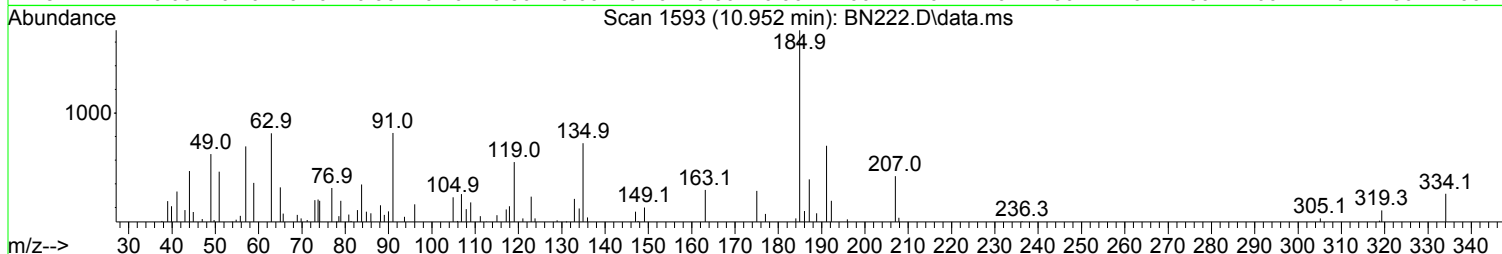
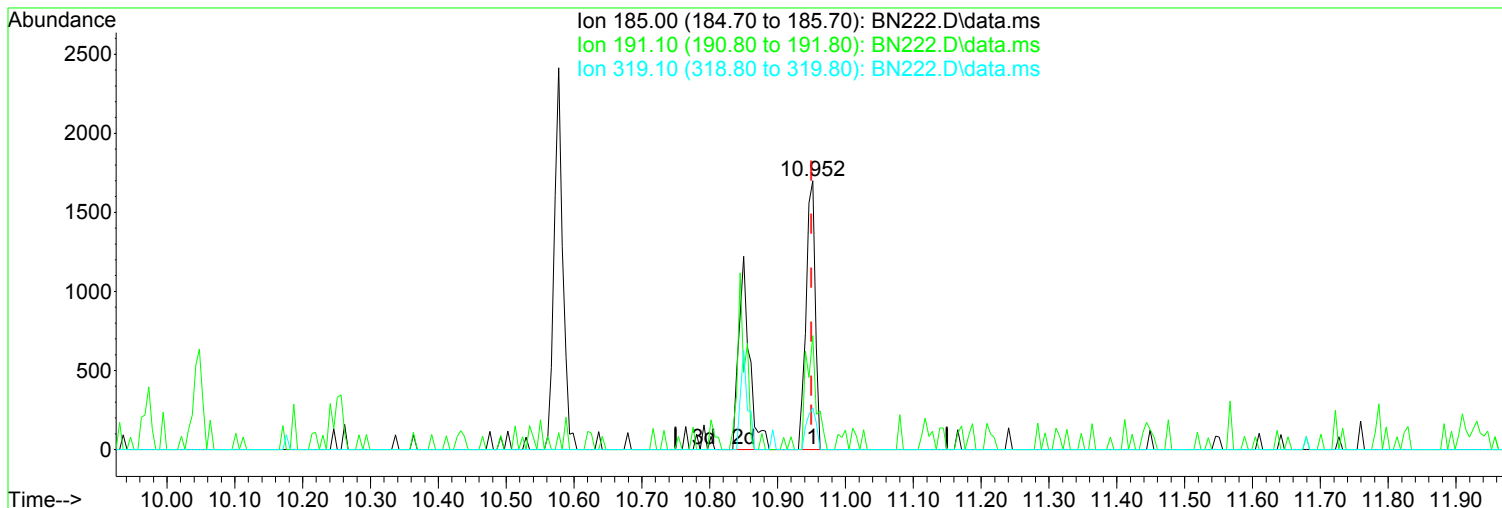
Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN221.D  
Acq On : 6 Mar 2018 11:31 am  
Operator : J.Misiurewicz  
Sample : BLK  
Misc : Initial Calibration 8270D/625  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 11:08:33 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN222.D  
 Acq On : 6 Mar 2018 12:07 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

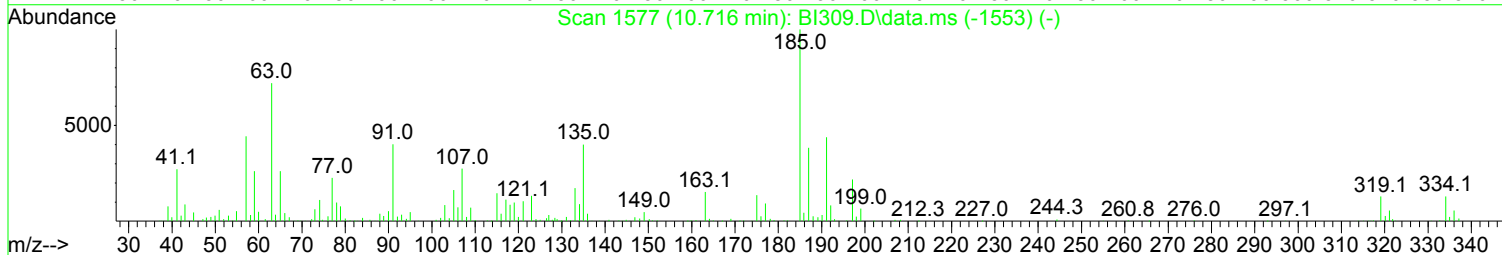
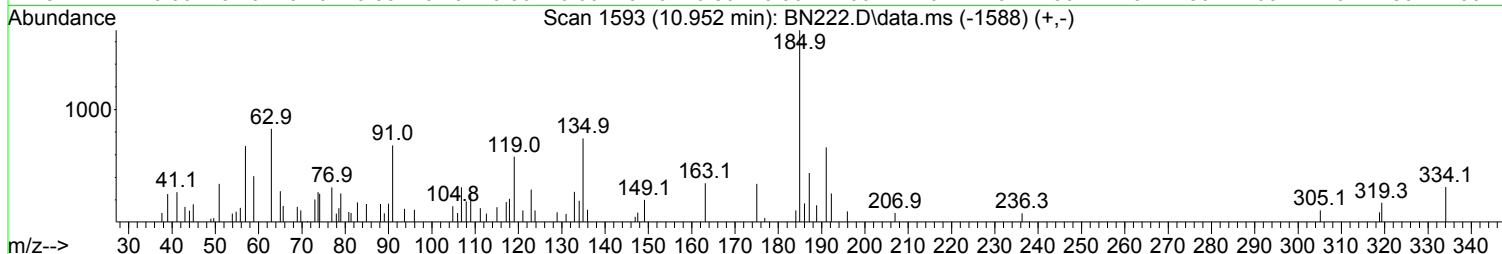
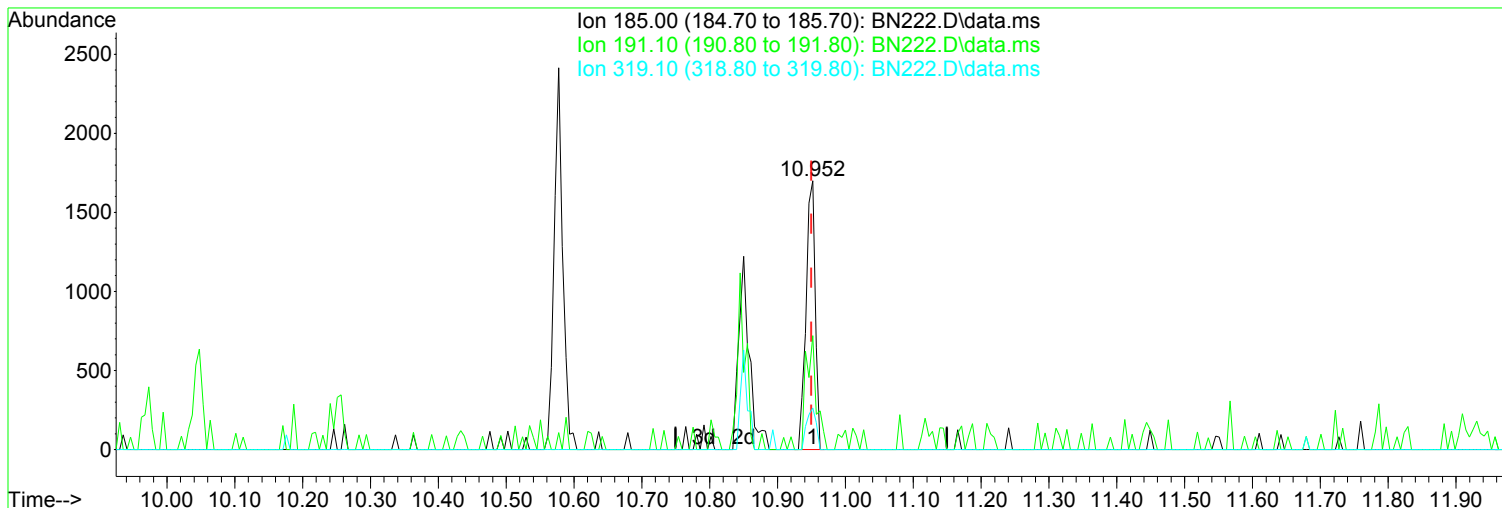
Quant Time: Mar 09 10:44:56 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



(125) Aramite (TM)			Manual Integration:
10.952min (+ 0.002)	2.40 ppm m		After
response	2959		Split Peak.
			03/09/18
Ion	Exp%	Act%	
185.00	100.00	100.00	
191.10	44.80	42.39	
319.10	16.20	10.29	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN222.D  
Acq On : 6 Mar 2018 12:07 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:44:56 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN222.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 1.29 ppm

Before

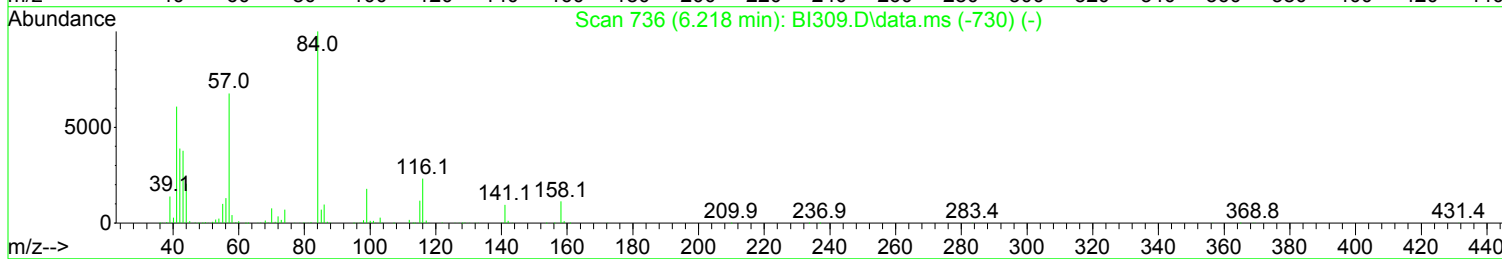
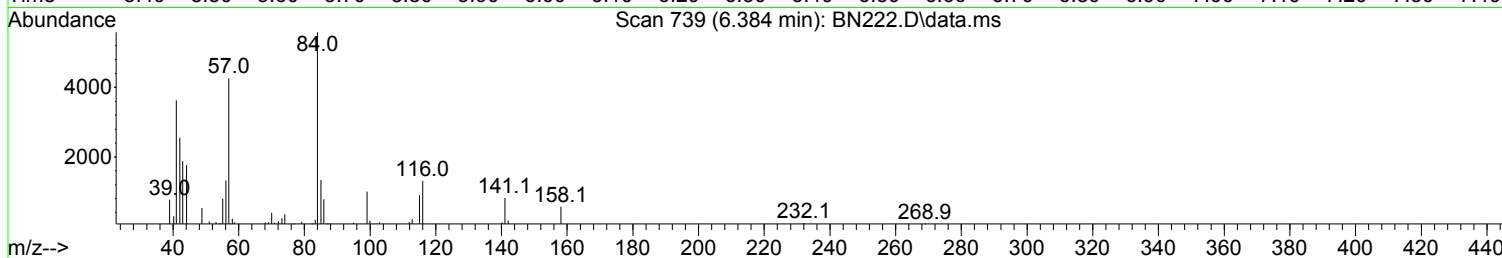
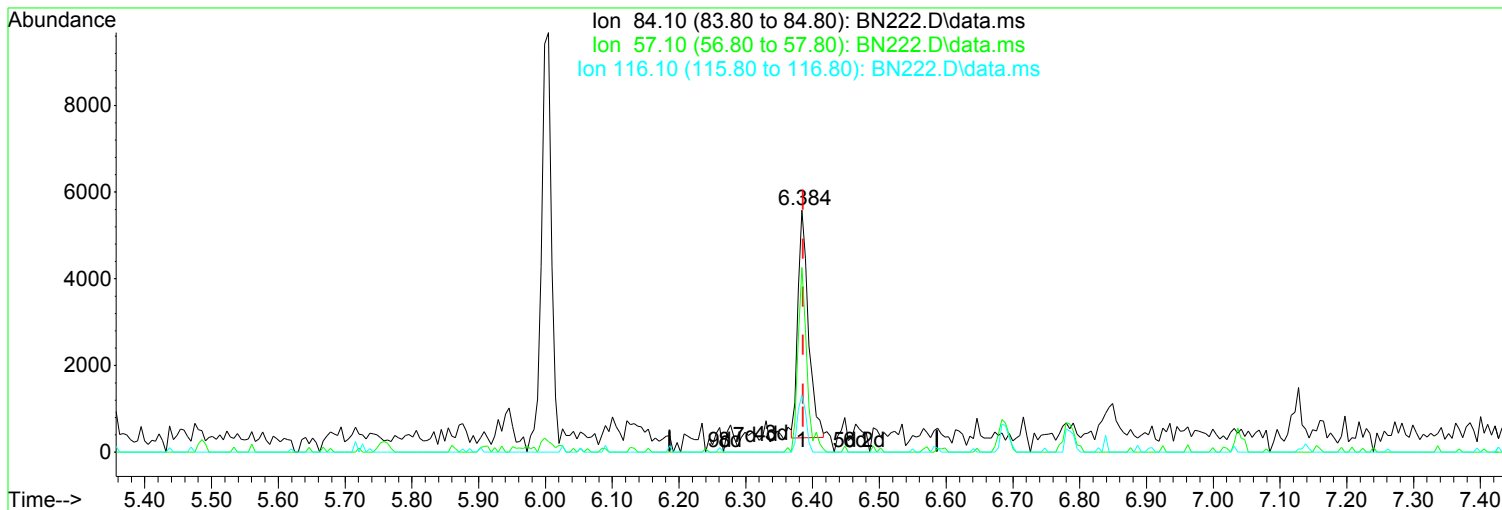
response 1595

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	36.42
319.10	16.20	15.52
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN222.D  
 Acq On : 6 Mar 2018 12:07 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:44:56 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



(51) N-N-di-n-butylamine (TM)

Manual Integration:

6.384min (-0.002) 2.50 ppm m

After

response 5792

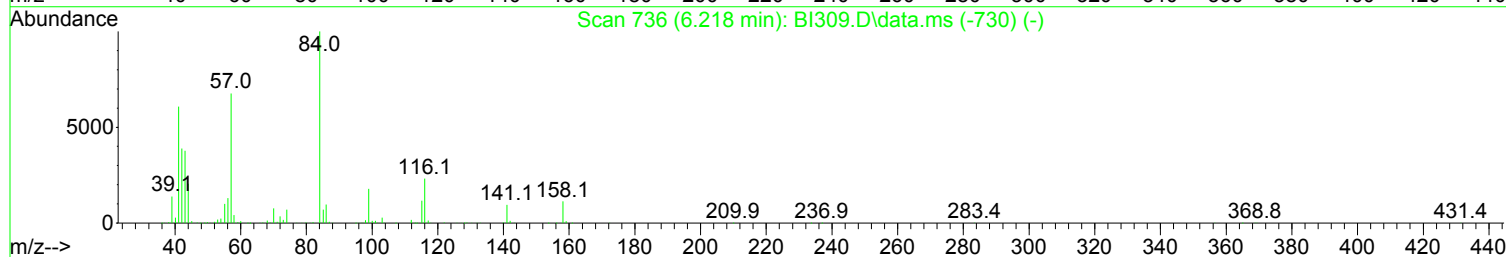
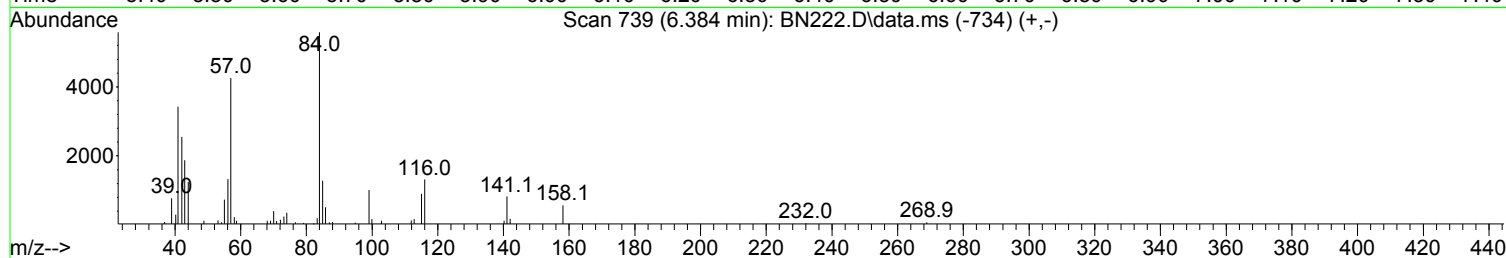
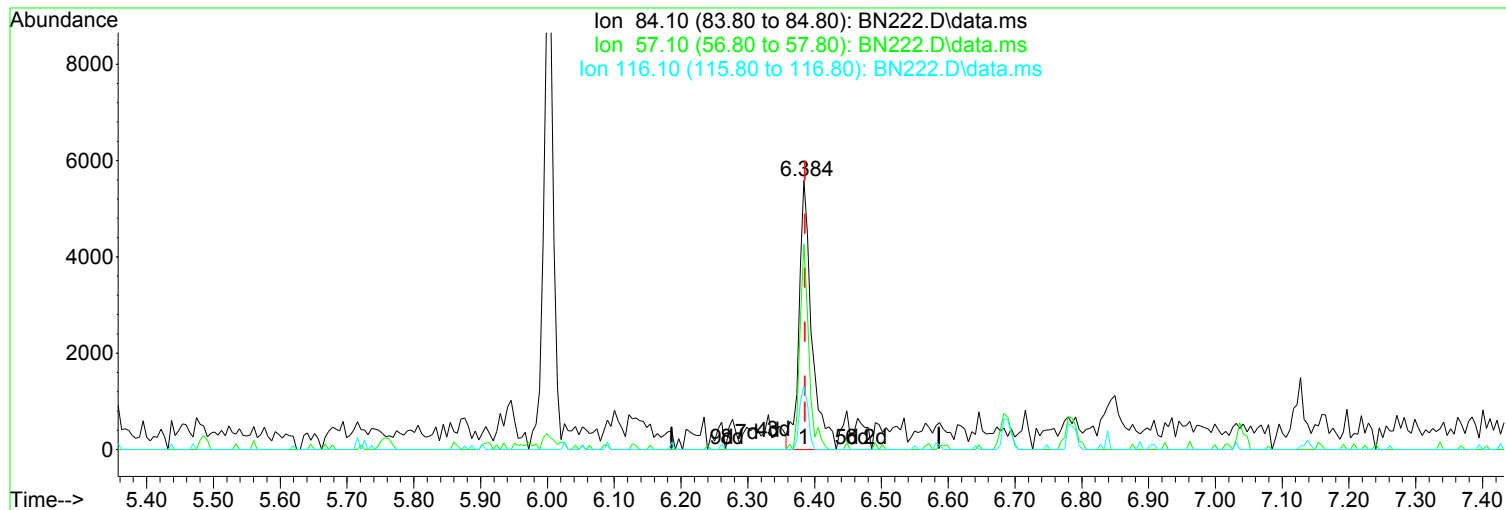
Poor integration.

Ion	Exp%	Act%
84.10	100.00	100.00
57.10	71.60	76.33
116.10	25.70	23.55
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN222.D  
Acq On : 6 Mar 2018 12:07 pm  
Operator : J.Misiurewicz  
Sample : 2.5 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:44:56 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN222.D\data.ms

(51) N-N-di-n-butylamine (TM)

Manual Integration:

6.384min (-0.002) 3.19 ppm

Before

response 7383

Ion	Exp%	Act%
84.10	100.00	100.00
57.10	71.60	78.44
116.10	25.70	24.20
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN222.D  
 Acq On : 6 Mar 2018 12:07 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:44:56 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	103853	40.00	ppm	0.00
33) d8-Naphthalene	6.004	136	405887	40.00	ppm	0.00
57) d10-Acenaphthene	7.710	164	227516	40.00	ppm	0.00
91) d10-Phenanthrene	9.176	188	352404	40.00	ppm	0.00
117) d12-Chrysene	12.481	240	354377	40.00	ppm	0.00
135) d12-Perylene	15.450	264	405697	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.779	112	7989	2.31	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	1.16%#
12) SURR2,PHENOL-D6	4.501	99	9711	2.32	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	1.16%#
34) SURR4,NITROBENZENE-D5	5.330	82	8029	2.39	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	2.39%#
63) SURR5,2-FLUOROBIPHENYL	7.042	172	19723	2.51	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	2.51%#
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	2976	2.27	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	1.14%#
124) SURR6,TERPHENYL-D14	10.877	244	18694	2.35	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	2.35%#

Target Compounds						Qvalue
2) Pyridine	2.875	79	7627	2.319	ppm	94
3) N-Nitrosodimethylamine	2.838	74	3647	2.237	ppm	80
4) 2-Picoline	3.378	93	8200	2.383	ppm	90
5) N-Nitrosomethylamine	3.448	42	3833	2.552	ppm	# 62
6) Methyl Methansulfonate	3.656	80	4351	2.412	ppm	96
8) N-Nitrosodiethylamine	3.961	102	3522	2.376	ppm	95
9) Ethyl Mathanesulfonate	4.180	79	6134	2.505	ppm	95
10) Benzaldehyde	4.469	106	11053	4.969	ppm	86
11) Aniline	4.555	93	14483	2.437	ppm	97
13) Phenol	4.512	94	9913	2.382	ppm	94
14) bis(2-Clethyl)Ether	4.598	93	7674	2.536	ppm	94
15) Pentachloroethane	4.603	117	3558	2.706	ppm	84
16) 2-Chlorophenol	4.656	128	8540	2.379	ppm	96
17) 1,3-Diclbzene	4.790	146	9060	2.354	ppm	91
18) 1,4-Dichlorobenzene	4.854	146	10035	2.513	ppm	89
19) 1,2-Diclbzene	4.988	146	9432	2.494	ppm	96
20) Benzyl Alcohol	4.945	79	5843	2.224	ppm	92
21) 1-Methyl-2-pyrrolidinone	5.004	99	4505	2.138	ppm	# 78
22) 2,2'-oxybis(1-Chloropr...	5.058	45	8400	2.720	ppm	84
23) 2-Methylphenol	5.036	108	7724	2.480	ppm	97
24) 3+4-Methylphenol	5.175	108	7596	2.301	ppm	82
25) Acetophenone	5.186	105	11607	2.475	ppm	95
26) N-Nitroso-Di-n-propyla...	5.175	70	6161	2.652	ppm	94
27) N-Nitrosopyrrolidine	5.175	100	4553	2.564	ppm	88
28) N-Nitrosomorpholine	5.202	56	4332	2.482	ppm	90
29) o-Toluidine	5.218	106	12761	2.398	ppm	97
30) Hexachloroethane	5.288	117	3683	2.387	ppm	97
31) o,o,o-Triethylphosphor...	5.726	198	3953	2.436	ppm	87
32) Alpha-terpinol	6.020	121	3133	2.499	ppm	91
35) Nitrobenzene	5.346	77	8749	2.569	ppm	95
36) N-Nitrosopiperidine	5.485	42	4705	2.567	ppm	93
37) Isophorone	5.560	82	14538	2.425	ppm	94
38) 2-Nitrophenol	5.641	139	3973	2.152	ppm	93



Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN222.D  
 Acq On : 6 Mar 2018 12:07 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:44:56 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 2,4-Dimethylphenol	5.667	107	8087	2.407	ppm	95
41) bis(-2-Chloroethoxy)Me...	5.758	93	9388	2.548	ppm	98
42) 2,4-Dichlorophenol	5.871	162	6158	2.246	ppm	92
43) a,a-Dimethylphenethyla...	5.876	58	16124	2.498	ppm	83
44) 1,2,4-Trichlorobenzene	5.945	180	8307	2.624	ppm	91
45) Naphthalene	6.020	128	27561	2.723	ppm	97
46) 4-Chloroaniline	6.074	127	10683	2.591	ppm	100
47) 2,6-Dichlorophenol	6.079	162	6799	2.312	ppm	88
48) Hexachlorobutadiene	6.133	225	4644	2.574	ppm	94
49) Hexachloropropene	6.106	213	5175	2.337	ppm	97
50) 4-Chloro-3-methylphenol	6.534	107	6935	2.507	ppm	88
51) N-N-di-n-butylamine	6.384	84	5792m	2.500	ppm	
52) Caprolactam	6.395	113	2361	2.294	ppm	# 59
54) Safrole	6.598	162	6403	2.585	ppm	94
55) 2-Methylnaphthalene	6.689	142	16878	2.524	ppm	92
56) 1-Methylnaphthalene	6.785	142	16384	2.596	ppm	98
58) Hexachlorocyclopentadiene	6.833	237	4517	2.269	ppm	87
59) 1,2,4,5-Tetrachloroben...	6.849	216	8386	2.477	ppm	82
60) 1,2,3,4-Tetrachloroben...	7.127	216	7738	2.385	ppm	92
61) 2,4,6-Trichlorophenol	6.962	196	4433	2.162	ppm	94
62) 2,4,5-Trichlorophenol	7.004	196	4784	2.239	ppm	91
64) Isosafrole	7.101	104	2972	2.319	ppm	# 73
65) 1,1'-Biphenyl	7.138	154	21518	2.500	ppm	98
66) 2-Chloronaphthalene	7.165	162	15907	2.401	ppm	98
67) 2-Nitroaniline	7.261	65	3400	2.067	ppm	83
68) 1,4-Naphthoquinone	7.336	158	4974	2.389	ppm	88
69) m-Dinitrobenzene	7.470	168	2325	1.997	ppm	92
70) Acenaphthylene	7.571	152	24899	2.382	ppm	97
71) Dimethyl phthalate	7.432	163	19626	2.554	ppm	99
72) 2,6-Dinitrotoluene	7.497	165	3662	2.170	ppm	96
73) Acenaphthene	7.737	153	18165	2.549	ppm	95
74) 3-Nitroaniline	7.668	138	4192	2.207	ppm	84
75) 2,4-Dinitrophenol	7.775	184	737	3.413	ppm	69
76) Dibenzofuran	7.908	168	23104	2.482	ppm	92
77) 2,4-Dinitrotoluene	7.892	165	4224	1.887	ppm	90
78) 4-Nitrophenol	7.833	65	2501	2.089	ppm	# 49
79) Pentachlorobenzene	7.866	250	7635	2.523	ppm	93
80) 1-Naphthylamine	7.989	143	11235	2.489	ppm	92
81) 2-Naphthylamine	8.063	143	14974	2.452	ppm	99
82) 2,3,4,6-Tetrachlorophenol	8.031	232	3122	1.933	ppm	98
83) Fluorene	8.245	166	19243	2.573	ppm	99
84) 4-Chlorophenyl-phenyle...	8.245	204	8998	2.680	ppm	95
85) Diethylphthalate	8.128	149	18972	2.453	ppm	95
86) 4-Nitroaniline	8.267	138	3809	1.758	ppm	88
87) 5-Nitro-o-toluidine	8.261	152	4479	2.064	ppm	92
89) Sulfotepp	8.507	322	2887	2.366	ppm	85
90) Octachlorocyclopentene	8.497	307	2982	2.286	ppm	83
92) Thionazin	8.208	107	3464	2.903	ppm	96
93) 4,6-Dinitro-2-methylph...	8.293	198	1426	1.112	ppm	73
94) Diphenylamine	8.358	169	27889	5.087	ppm	96
95) 1,2-Diphenylhydrazine	8.400	77	17780	2.645	ppm	93
96) N-Nitrosodiphenylamine	8.358	169	27889	5.087	ppm	96
97) 1,3,5-Trinirobenzene	8.625	213	1098	1.549	ppm	# 1
98) Diallate	8.641	86	7650	3.200	ppm	99
99) Phorate	8.652	121	2835	2.278	ppm	97
100) Phenacetin	8.663	108	7088	2.020	ppm	88

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN222.D  
 Acq On : 6 Mar 2018 12:07 pm  
 Operator : J.Misiurewicz  
 Sample : 2.5 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 10:44:56 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

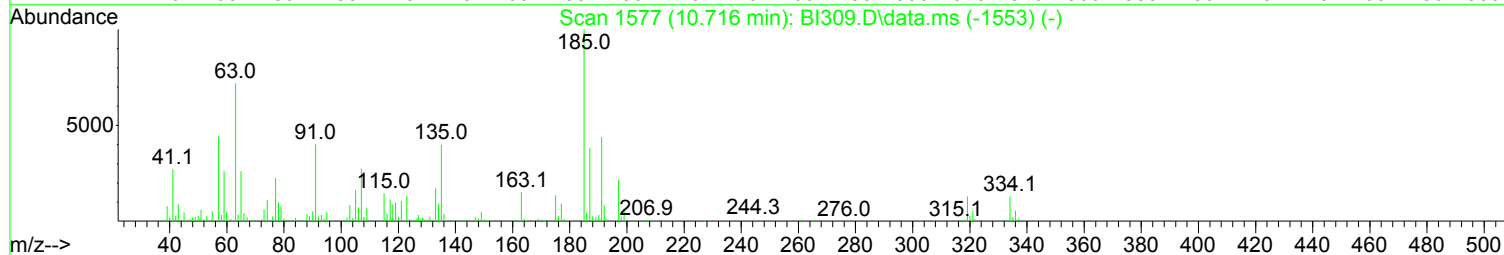
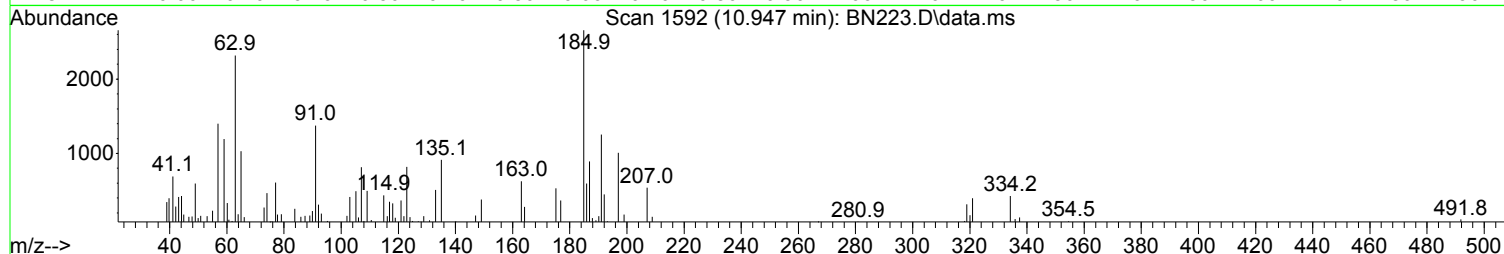
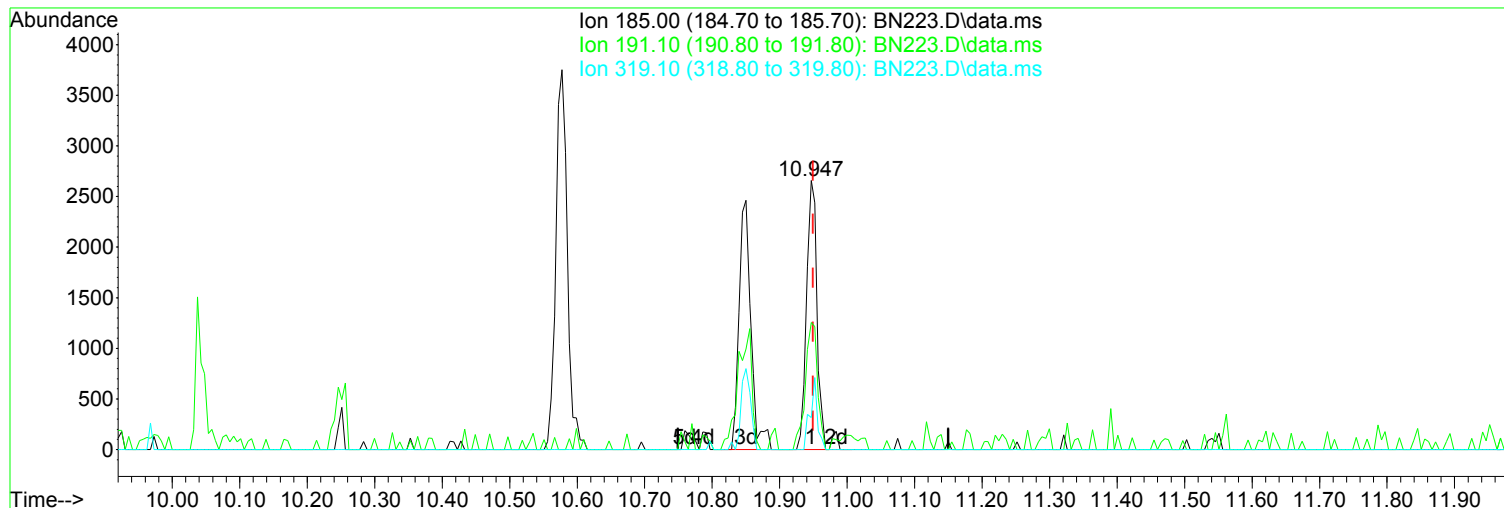
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 4-Bromophenyl-phenylether	8.727	248	5752	2.910	ppm	93
102) Hexachlorobenzene	8.786	284	6424	2.630	ppm	96
103) Dimethoate	8.818	87	5839	2.505	ppm	87
104) Atrazine	8.882	215	2104	2.369	ppm	90
105) Pentachlorophenol	8.983	266	2203	1.482	ppm	# 65
106) 4-Aminobiphenyl	8.983	169	15187	2.149	ppm	94
107) Pentachloronitrobenzene	8.994	237	1720	2.039	ppm	82
108) Pronamide	9.037	173	6166	1.992	ppm	93
109) Dinoseb	9.160	211	1849	1.043	ppm	84
110) Disulfoton	9.171	88	8252	3.535	ppm	79
111) Phenanthrene	9.197	178	25243	2.541	ppm	99
112) Anthracene	9.246	178	23980	2.432	ppm	92
113) Carbazole	9.406	167	20923	2.118	ppm	96
114) Di-n-butylphthalate	9.743	149	25779	2.066	ppm	98
115) 4-Nitroquinoline-1-oxide	9.968	190	1000	1.108	ppm	95
116) Fluoranthene	10.422	202	23453	2.145	ppm	94
118) Methyl Parathion	9.540	109	3830	2.052	ppm	90
119) Ethyl Parathion	9.925	97	2379	1.795	ppm	87
120) Methapyrilene	10.042	58	6208	2.637	ppm	95
121) Isodrin	10.251	193	2582	2.446	ppm	87
122) Benzidine	10.577	184	15185	2.204	ppm	94
123) Pyrene	10.690	202	24852	2.330	ppm	94
125) Aramite	10.952	185	2959m	2.396	ppm	
126) p-(Dimethylamino)azobe...	11.064	120	6426	2.146	ppm	90
127) Chlorobenzilate	11.123	139	7790	2.501	ppm	99
128) Butyl benzyl phthalate	11.567	149	14005	2.472	ppm	98
129) 3,3-Dimethylbenzidine	11.545	212	14719	2.219	ppm	95
130) 2-Acetylaminofluorene	11.936	181	8406	1.912	ppm	94
131) 3,3'-Dichlorobenzidine	12.439	252	9285	2.339	ppm	81
132) Benzo(a)anthracene	12.465	228	26319	2.481	ppm	96
133) Chrysene	12.530	228	25385	2.531	ppm	93
134) bis(2-Ethylhexyl)phtha...	12.562	149	17897	2.296	ppm	90
136) Di-n-octyl phthalate	13.904	149	28075	1.962	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.605	256	11569	2.095	ppm	94
138) Benzo(b)Fluoranthene	14.605	252	28316	2.300	ppm	90
139) Benzo(k)fluoranthene	14.669	252	28125	2.401	ppm	97
140) Benzo(a)pyrene	15.311	252	22981	2.187	ppm	92
141) 3-Methylcholanthrene	16.081	268	12780	2.142	ppm	93
142) Indeno(1,2,3-cd)Pyrene	17.375	276	24489	2.484	ppm	87
143) Dibenz(a,h)anthracene	17.429	278	26269	2.435	ppm	96
144) Benzo(g,h,i)perylene	17.846	276	26028	2.657	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN223.D  
Acq On : 6 Mar 2018 12:35 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 10:45:03 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.947min (-0.003) 4.75 ppm m

After

response 5974

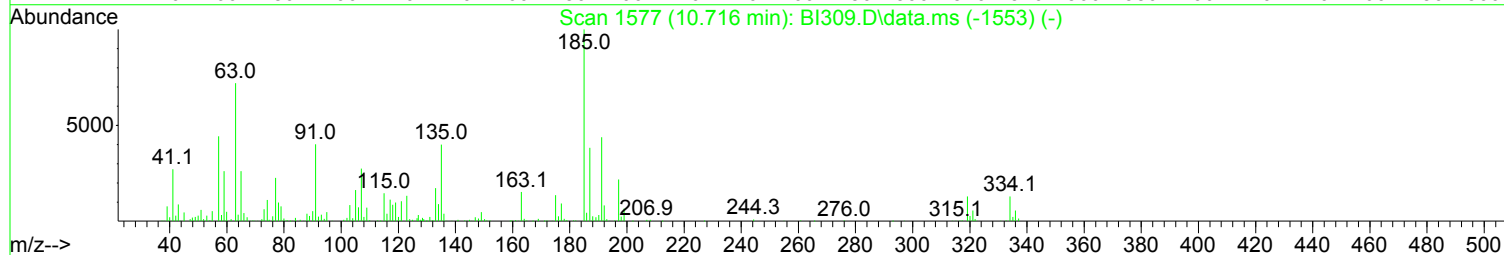
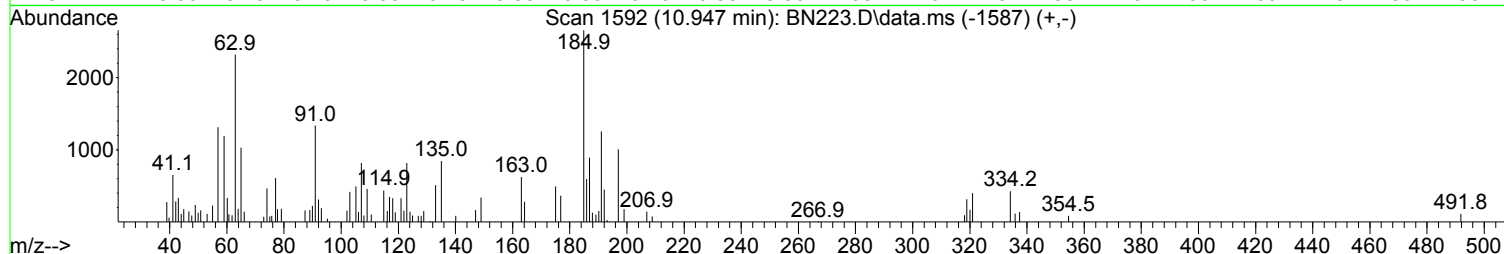
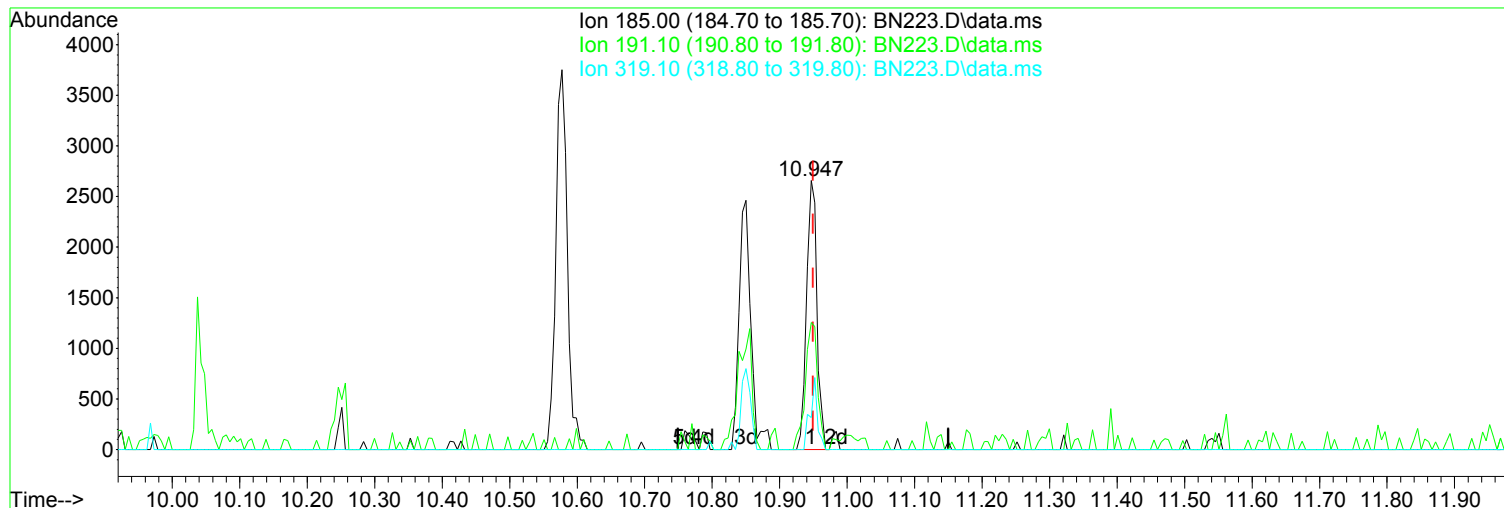
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	47.25
319.10	16.20	11.85
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN223.D  
Acq On : 6 Mar 2018 12:35 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 10:45:03 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN223.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.947min (-0.003) 2.26 ppm

Before

response 2842

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	47.25
319.10	16.20	11.85
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN223.D  
 Acq On : 6 Mar 2018 12:35 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 10:45:03 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	98901	40.00	ppm	0.00
33) d8-Naphthalene	5.999	136	391398	40.00	ppm	0.00
57) d10-Acenaphthene	7.705	164	215888	40.00	ppm	0.00
91) d10-Phenanthrene	9.171	188	342111	40.00	ppm	0.00
117) d12-Chrysene	12.482	240	360545	40.00	ppm	0.00
135) d12-Perylene	15.445	264	400414	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.774	112	15613	4.74	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	2.37%#
12) SURR2,PHENOL-D6	4.496	99	19850	4.97	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	2.48%#
34) SURR4,NITROBENZENE-D5	5.325	82	15976	4.92	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	4.92%#
63) SURR5,2-FLUOROBIPHENYL	7.037	172	37860	5.09	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	5.09%#
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	5513	4.44	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	2.22%#
124) SURR6,TERPHENYL-D14	10.877	244	40700	5.04	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	5.04%#

Target Compounds						Qvalue
2) Pyridine	2.865	79	12791	4.084	ppm	94
3) N-Nitrosodimethylamine	2.822	74	6898	4.443	ppm	93
4) 2-Picoline	3.378	93	15215	4.643	ppm	95
5) N-Nitrosomethylamine	3.442	42	7518	5.257	ppm	98
6) Methyl Methansulfonate	3.651	80	8527	4.963	ppm	96
8) N-Nitrosodiethylamine	3.956	102	7051	4.996	ppm	87
9) Ethyl Mathanesulfonate	4.181	79	11331	4.859	ppm	99
10) Benzaldehyde	4.469	106	21237	10.026	ppm	99
11) Aniline	4.555	93	27338	4.831	ppm	96
13) Phenol	4.507	94	19837	5.004	ppm	92
14) bis(2-Clethyl)Ether	4.592	93	14839	5.150	ppm	97
15) Pentachloroethane	4.598	117	6892	5.504	ppm	80
16) 2-Chlorophenol	4.657	128	16818	4.920	ppm	98
17) 1,3-Diclbzene	4.790	146	18489	5.045	ppm	97
18) 1,4-Dichlorobenzene	4.854	146	19634	5.164	ppm	96
19) 1,2-Diclbzene	4.988	146	18850	5.234	ppm	94
20) Benzyl Alcohol	4.945	79	11794	4.713	ppm	91
21) 1-Methyl-2-pyrrolidinone	4.972	99	10139	5.052	ppm	93
22) 2,2'-oxybis(1-Chloropr...	5.058	45	15809	5.375	ppm	95
23) 2-Methylphenol	5.036	108	15016	5.063	ppm	93
24) 3+4-Methylphenol	5.175	108	15745	5.008	ppm	94
25) Acetophenone	5.186	105	21967	4.918	ppm	98
26) N-Nitroso-Di-n-propyla...	5.175	70	10877	4.917	ppm	# 80
27) N-Nitrosopyrrolidine	5.165	100	8069	4.771	ppm	71
28) N-Nitrosomorpholine	5.197	56	8427	5.070	ppm	83
29) o-Toluidine	5.218	106	27274	5.381	ppm	81
30) Hexachloroethane	5.288	117	7556	5.142	ppm	90
31) o,o,o-Triethylphosphor...	5.726	198	8457	5.472	ppm	82
32) Alpha-terpinol	6.020	121	6630	5.553	ppm	93
35) Nitrobenzene	5.341	77	15764	4.800	ppm	91
36) N-Nitrosopiperidine	5.480	42	8895	5.033	ppm	93
37) Isophorone	5.561	82	29163	5.045	ppm	98
38) 2-Nitrophenol	5.641	139	8405	4.720	ppm	81

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN223.D  
 Acq On : 6 Mar 2018 12:35 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 10:45:03 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.716	105	9006	3.911	ppm	68
40) 2,4-Dimethylphenol	5.667	107	16252	5.016	ppm	87
41) bis(-2-Chloroethoxy)Me...	5.753	93	17301	4.870	ppm	94
42) 2,4-Dichlorophenol	5.865	162	13048	4.936	ppm	96
43) a,a-Dimethylphenethyla...	5.876	58	32231	5.179	ppm	87
44) 1,2,4-Trichlorobenzene	5.946	180	15379	5.038	ppm	88
45) Naphthalene	6.020	128	51740	5.301	ppm	99
46) 4-Chloroaniline	6.069	127	19854	4.994	ppm	96
47) 2,6-Dichlorophenol	6.074	162	14244	5.023	ppm	88
48) Hexachlorobutadiene	6.133	225	8685	4.991	ppm	96
49) Hexachloropropene	6.101	213	10761	5.039	ppm	96
50) 4-Chloro-3-methylphenol	6.534	107	12701	4.762	ppm	95
51) N-N-di-n-butylamine	6.384	84	13789	6.172	ppm	99
52) Caprolactam	6.395	113	5126	5.166	ppm	82
54) Safrole	6.598	162	11766	4.927	ppm	93
55) 2-Methylnaphthalene	6.684	142	33797	5.241	ppm	97
56) 1-Methylnaphthalene	6.785	142	31341	5.150	ppm	93
58) Hexachlorocyclopentadiene	6.833	237	8170	4.325	ppm	95
59) 1,2,4,5-Tetrachloroben...	6.850	216	16720	5.205	ppm	96
60) 1,2,3,4-Tetrachloroben...	7.122	216	15700	5.100	ppm	93
61) 2,4,6-Trichlorophenol	6.962	196	8961	4.606	ppm	84
62) 2,4,5-Trichlorophenol	6.999	196	9683	4.776	ppm	88
64) Isosafrole	7.101	104	6250	5.139	ppm	97
65) 1,1'-Biphenyl	7.138	154	42760	5.235	ppm	98
66) 2-Chloronaphthalene	7.160	162	31746	5.049	ppm	96
67) 2-Nitroaniline	7.261	65	7825	5.015	ppm	91
68) 1,4-Naphthoquinone	7.336	158	9134	4.624	ppm	95
69) m-Dinitrobenzene	7.470	168	4827	4.370	ppm	93
70) Acenaphthylene	7.566	152	49857	5.026	ppm	99
71) Dimethyl phthalate	7.433	163	39151	5.370	ppm	99
72) 2,6-Dinitrotoluene	7.497	165	7522	4.697	ppm	95
73) Acenaphthene	7.737	153	34076	5.039	ppm	100
74) 3-Nitroaniline	7.663	138	8666	4.807	ppm	95
75) 2,4-Dinitrophenol	7.775	184	1660	5.065	ppm	67
76) Dibenzofuran	7.909	168	45905	5.196	ppm	98
77) 2,4-Dinitrotoluene	7.893	165	9281	4.370	ppm	89
78) 4-Nitrophenol	7.834	65	4998	4.400	ppm	87
79) Pentachlorobenzene	7.866	250	14867	5.178	ppm	96
80) 1-Naphthylamine	7.983	143	22201	5.184	ppm	100
81) 2-Naphthylamine	8.064	143	30712	5.300	ppm	100
82) 2,3,4,6-Tetrachlorophenol	8.026	232	6672	4.353	ppm	95
83) Fluorene	8.246	166	37460	5.279	ppm	94
84) 4-Chlorophenyl-phenyle...	8.240	204	17179	5.392	ppm	98
85) Diethylphthalate	8.123	149	39347	5.361	ppm	98
86) 4-Nitroaniline	8.262	138	9255	4.502	ppm	91
87) 5-Nitro-o-toluidine	8.256	152	9264	4.500	ppm	91
89) Sulfotepp	8.513	322	5096	4.402	ppm	85
90) Octachlorocyclopentene	8.492	307	5729	4.628	ppm	100
92) Thionazin	8.203	107	5891	5.085	ppm	94
93) 4,6-Dinitro-2-methylph...	8.288	198	3383	2.717	ppm	72
94) Diphenylamine	8.358	169	60344	11.339	ppm	96
95) 1,2 Diphenylhydrazine	8.395	77	36903	5.655	ppm	94
96) N-Nitrosodiphenylamine	8.358	169	60344	11.339	ppm	96
97) 1,3,5-Trinirobenzene	8.620	213	2220	3.227	ppm	# 14
98) Diallate	8.636	86	12726	5.484	ppm	81
99) Phorate	8.652	121	6343	5.250	ppm	88

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN223.D  
 Acq On : 6 Mar 2018 12:35 pm  
 Operator : J.Misiurewicz  
 Sample : 5.0 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 10:45:03 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

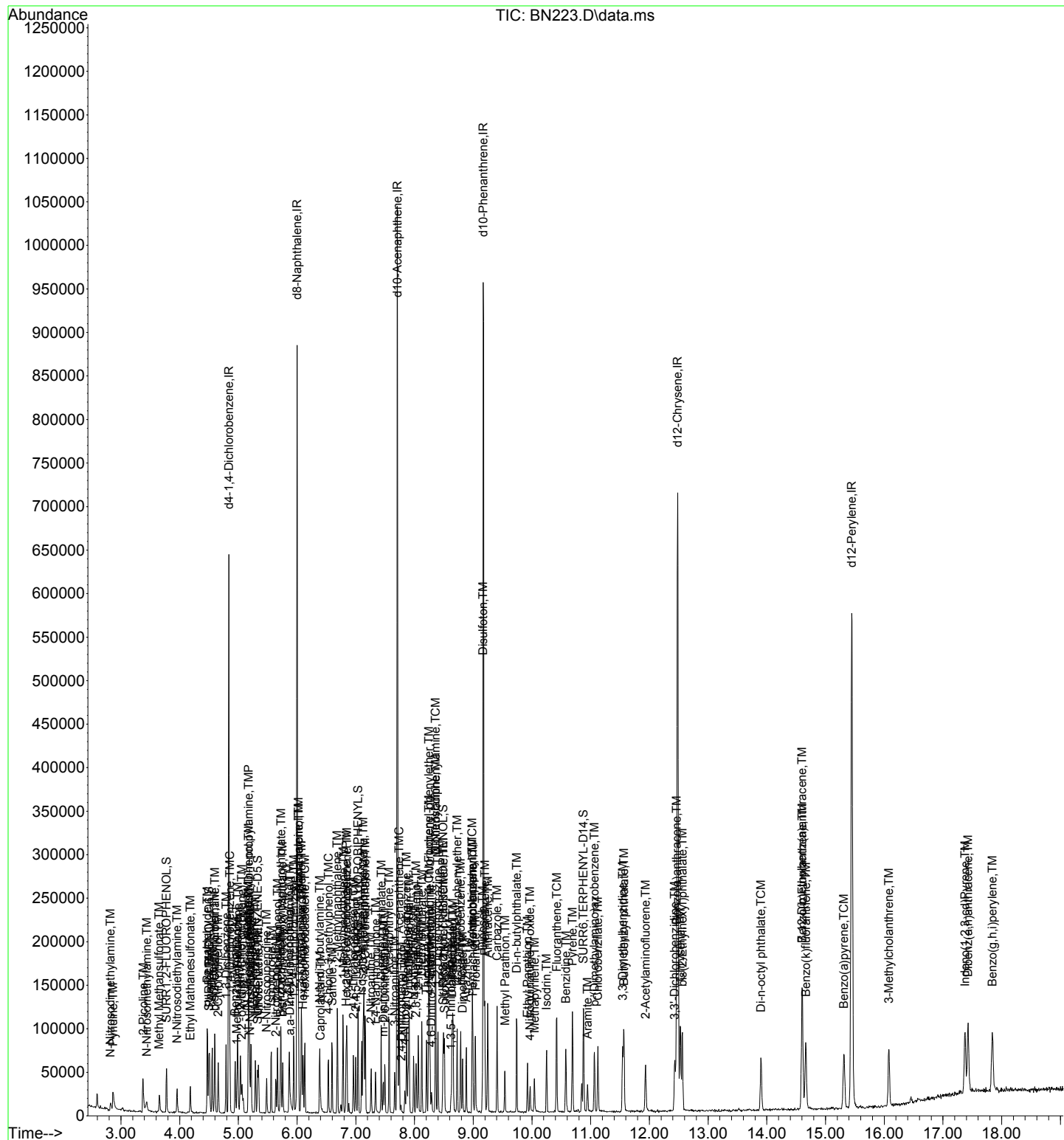
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.657	108	16779	4.925	ppm	92
101) 4-Bromophenyl-phenylether	8.727	248	10521	5.483	ppm	95
102) Hexachlorobenzene	8.786	284	12000	5.061	ppm	95
103) Dimethoate	8.818	87	12164	5.376	ppm	95
104) Atrazine	8.882	215	3667	4.253	ppm	91
105) Pentachlorophenol	8.984	266	4111	2.849	ppm #	82
106) 4-Aminobiphenyl	8.984	169	32393	4.722	ppm	95
107) Pentachloronitrobenzene	8.994	237	3718	4.539	ppm	93
108) Pronamide	9.037	173	13115	4.365	ppm	93
109) Dinoseb	9.160	211	4644	2.700	ppm	92
110) Disulfoton	9.165	88	13214	5.832	ppm	86
111) Phenanthrene	9.198	178	48930	5.073	ppm	99
112) Anthracene	9.246	178	47369	4.948	ppm	96
113) Carbazole	9.406	167	45082	4.701	ppm	95
114) Di-n-butylphthalate	9.738	149	56589	4.671	ppm	99
115) 4-Nitroquinoline-1-oxide	9.968	190	2011	2.296	ppm	83
116) Fluoranthene	10.422	202	50654	4.773	ppm	98
118) Methyl Parathion	9.540	109	8476	4.463	ppm	98
119) Ethyl Parathion	9.925	97	5702	4.230	ppm	85
120) Methapyrilene	10.043	58	11662	4.869	ppm	99
121) Isodrin	10.246	193	5320	4.955	ppm	85
122) Benzidine	10.578	184	33835	4.827	ppm	98
123) Pyrene	10.690	202	52173	4.808	ppm	97
125) Aramite	10.947	185	5974m	4.754	ppm	
126) p-(Dimethylamino)azobe...	11.064	120	14383	4.722	ppm	89
127) Chlorobenzilate	11.123	139	15266	4.817	ppm	81
128) Butyl benzyl phthalate	11.567	149	27638	4.795	ppm	91
129) 3,3-Dimethylbenzidine	11.546	212	31933	4.732	ppm	98
130) 2-Acetylaminofluorene	11.936	181	17153	3.834	ppm	97
131) 3,3'-Dichlorobenzidine	12.428	252	17765	4.398	ppm	95
132) Benzo(a)anthracene	12.460	228	51491	4.770	ppm	98
133) Chrysene	12.530	228	50089	4.909	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.562	149	39710	5.006	ppm	97
136) Di-n-octyl phthalate	13.899	149	54159	3.836	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.600	256	24604	4.513	ppm	95
138) Benzo(b)Fluoranthene	14.605	252	52137	4.291	ppm	98
139) Benzo(k)fluoranthene	14.664	252	54148	4.683	ppm	99
140) Benzo(a)pyrene	15.311	252	47063	4.538	ppm	96
141) 3-Methylcholanthrene	16.076	268	25056	4.255	ppm	97
142) Indeno(1,2,3-cd)Pyrene	17.376	276	48627	4.998	ppm	92
143) Dibenz(a,h)anthracene	17.429	278	51059	4.795	ppm	96
144) Benzo(g,h,i)perylene	17.841	276	52487	5.429	ppm	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed



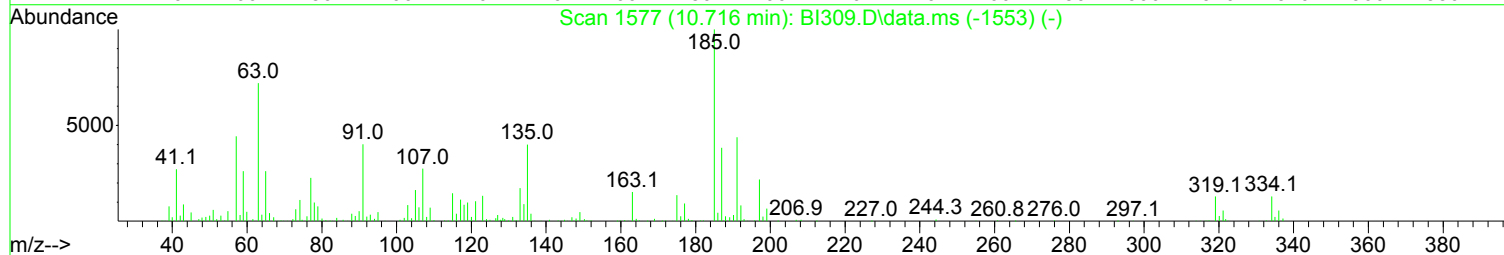
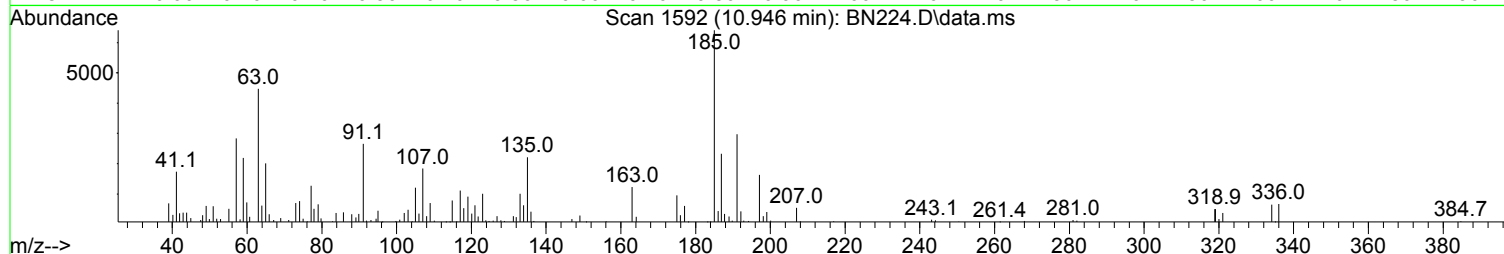
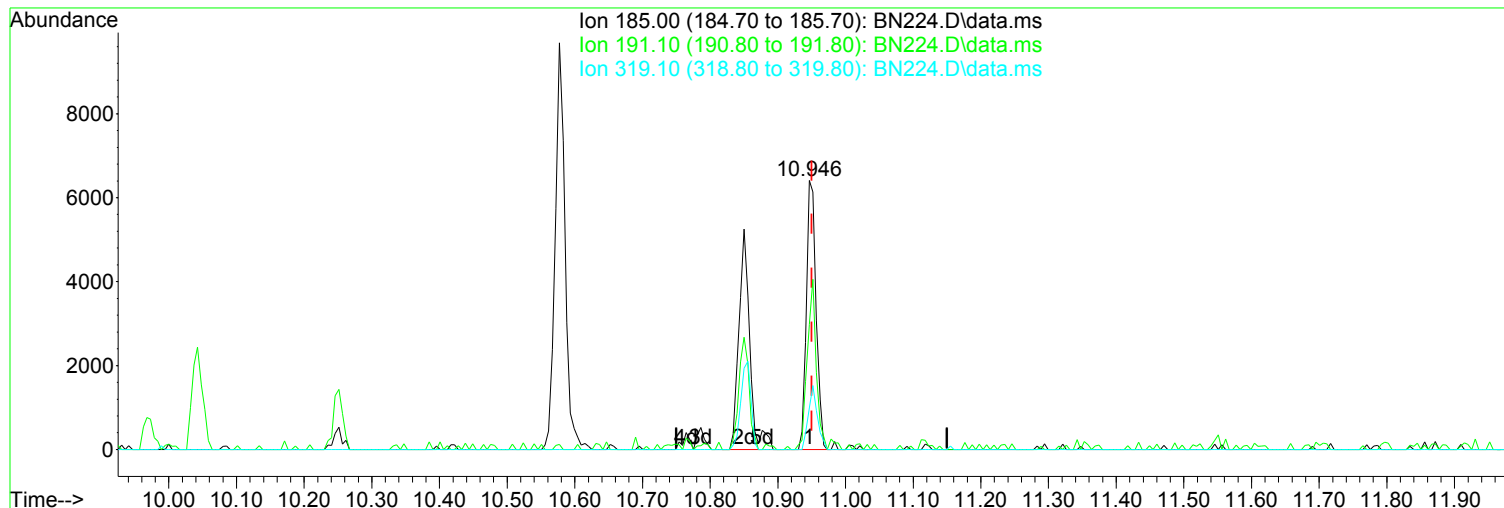
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Data File : BN223.D  
Acq On : 6 Mar 2018 12:35 pm  
Operator : J.Misiurewicz  
Sample : 5.0 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 10:45:03 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN224.D  
Acq On : 6 Mar 2018 1:03 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 10:45:09 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.946min (-0.004) 9.34 ppm m

After

response 12407

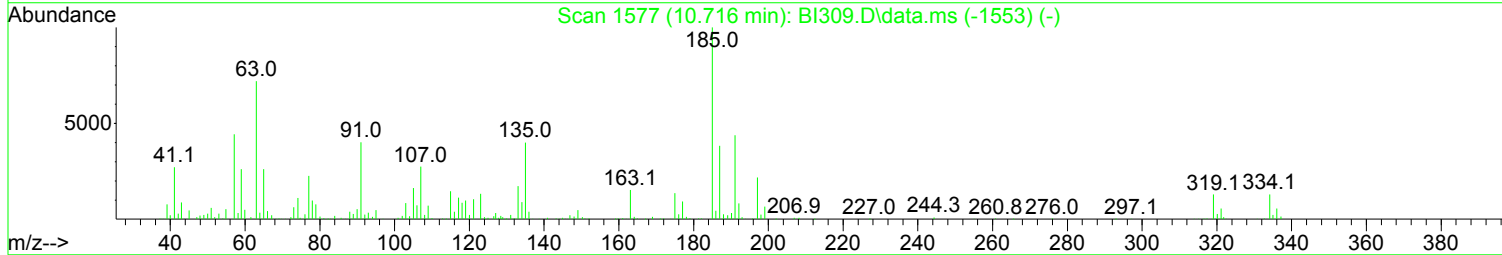
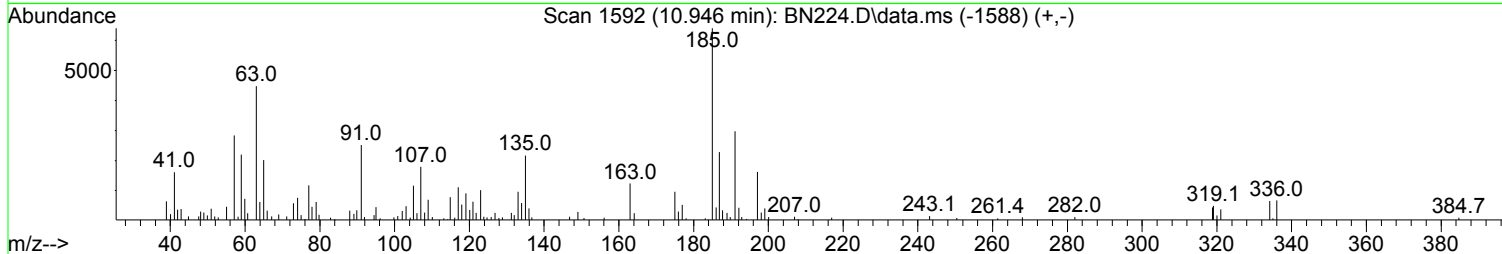
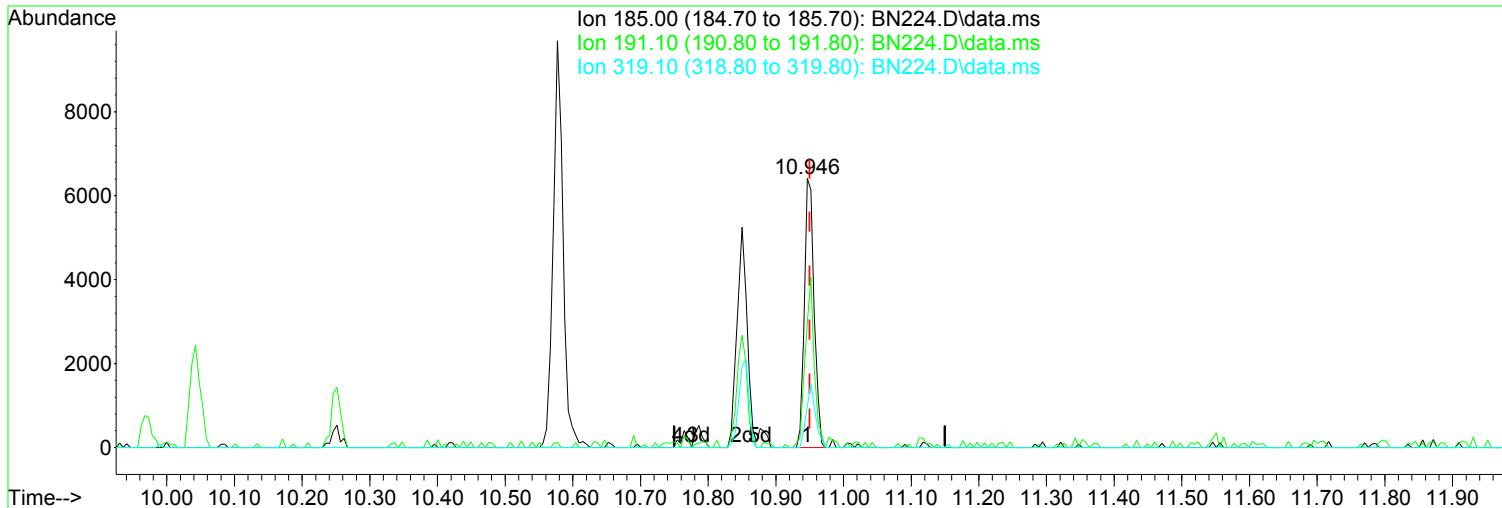
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	46.47
319.10	16.20	7.72
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN224.D  
Acq On : 6 Mar 2018 1:03 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 10:45:09 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN224.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.946min (-0.004) 4.80 ppm

Before

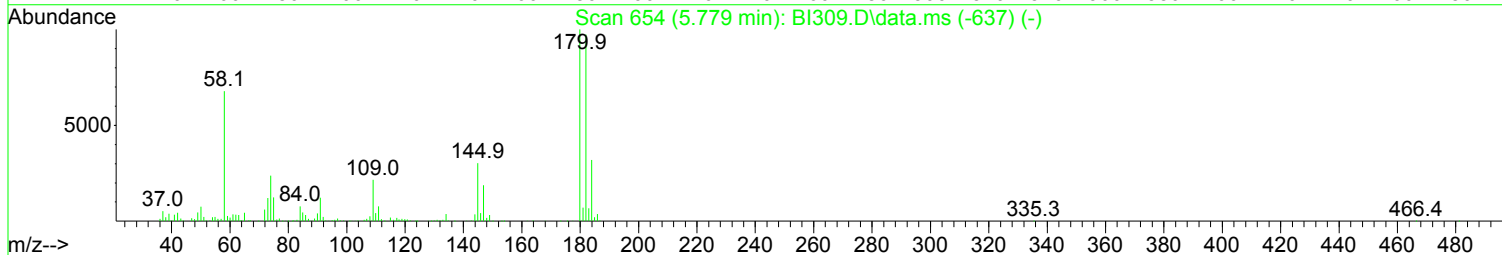
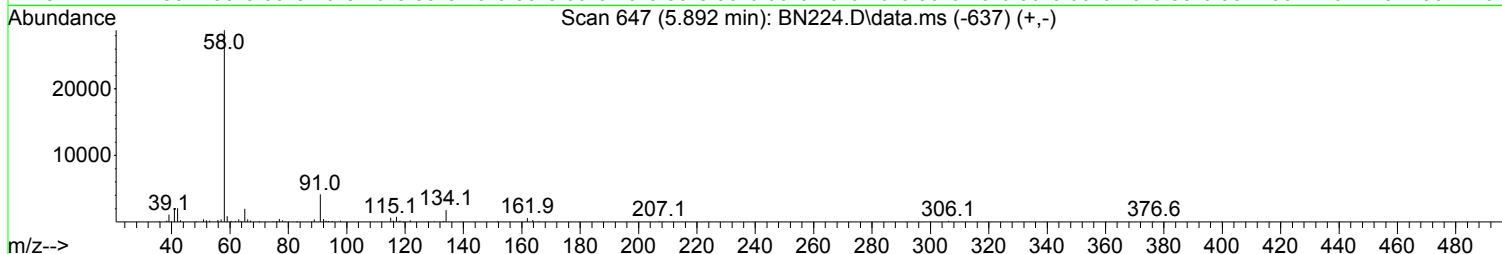
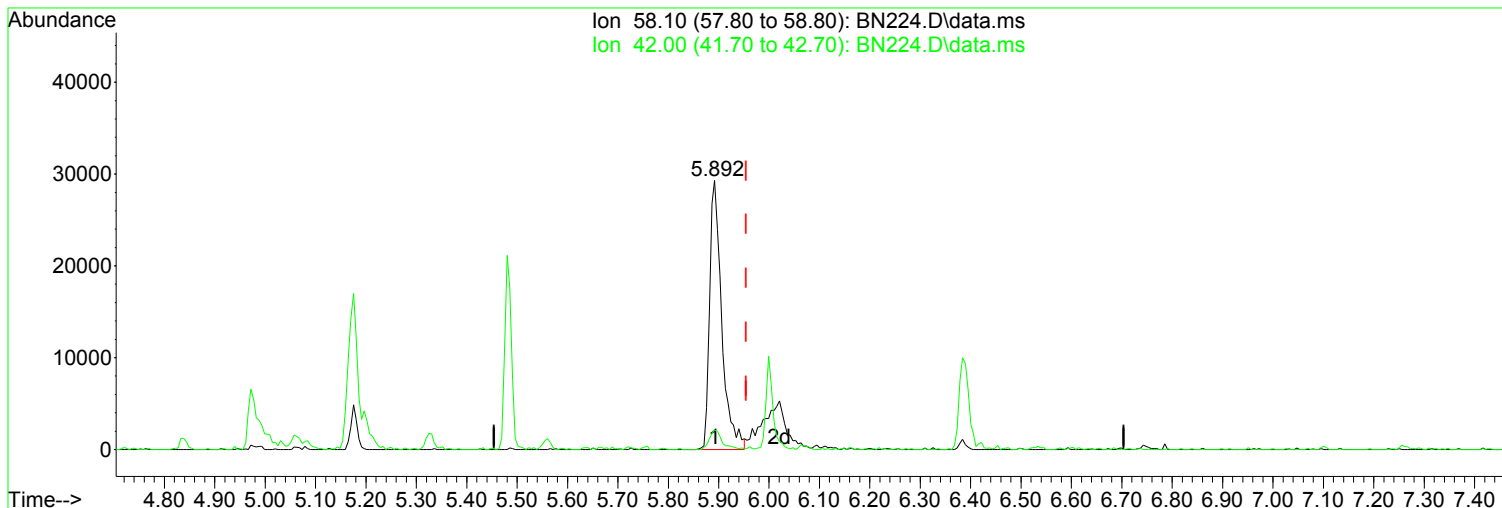
response 6376

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	45.65
319.10	16.20	15.45
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN224.D  
Acq On : 6 Mar 2018 1:03 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 10:45:09 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.892min (-0.062) 7.69 ppm

Before

response 49186

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	7.25
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN224.D  
 Acq On : 6 Mar 2018 1:03 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 10:45:09 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	100816	40.00	ppm	0.00
33) d8-Naphthalene	6.004	136	402235	40.00	ppm	0.00
57) d10-Acenaphthene	7.705	164	221077	40.00	ppm	0.00
91) d10-Phenanthrene	9.176	188	323377	40.00	ppm	0.00
117) d12-Chrysene	12.487	240	381110	40.00	ppm	0.00
135) d12-Perylene	15.450	264	386945	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.774	112	34027	10.13	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	5.07%#
12) SURR2,PHENOL-D6	4.496	99	41307	10.15	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	5.08%#
34) SURR4,NITROBENZENE-D5	5.325	82	33730	10.12	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	10.12%#
63) SURR5,2-FLUOROBIPHENYL	7.042	172	77417	10.16	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	10.16%#
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	12339	9.70	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	4.85%#
124) SURR6,TERPHENYL-D14	10.882	244	84203	9.85	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	9.85%#

Target Compounds						Qvalue
2) Pyridine	2.854	79	32752	10.258	ppm	99
3) N-Nitrosodimethylamine	2.817	74	15325	9.683	ppm	87
4) 2-Picoline	3.373	93	33543	10.041	ppm	93
5) N-Nitrosomethylamine	3.437	42	15664	10.745	ppm	95
6) Methyl Methansulfonate	3.651	80	17728	10.123	ppm	98
8) N-Nitrosodiethylamine	3.956	102	14238	9.896	ppm	97
9) Ethyl Mathanesulfonate	4.180	79	24455	10.288	ppm	97
10) Benzaldehyde	4.475	106	46259	21.423	ppm	91
11) Aniline	4.555	93	59335	10.285	ppm	97
13) Phenol	4.507	94	42083	10.415	ppm	92
14) bis(2-Clethyl)Ether	4.598	93	30049	10.231	ppm	93
15) Pentachloroethane	4.603	117	12317	9.649	ppm	92
16) 2-Chlorophenol	4.656	128	35309	10.134	ppm	95
17) 1,3-Diclbzene	4.790	146	38315	10.256	ppm	93
18) 1,4-Dichlorobenzene	4.854	146	40294	10.396	ppm	98
19) 1,2-Diclbzene	4.988	146	37750	10.282	ppm	98
20) Benzyl Alcohol	4.945	79	25926	10.164	ppm	100
21) 1-Methyl-2-pyrrolidinone	4.972	99	20756	10.146	ppm	90
22) 2,2'-oxybis(1-Chloropr...	5.058	45	29835	9.950	ppm	98
23) 2-Methylphenol	5.036	108	29553	9.775	ppm	90
24) 3+4-Methylphenol	5.175	108	32951	10.282	ppm	100
25) Acetophenone	5.186	105	47920	10.524	ppm	93
26) N-Nitroso-Di-n-propyla...	5.175	70	22826	10.122	ppm	92
27) N-Nitrosopyrrolidine	5.170	100	17699	10.266	ppm	85
28) N-Nitrosomorpholine	5.202	56	17637	10.410	ppm	99
29) o-Toluidine	5.218	106	53171	10.291	ppm	98
30) Hexachloroethane	5.288	117	15296	10.212	ppm	89
31) o,o,o-Triethylphosphor...	5.726	198	15303	9.714	ppm	94
32) Alpha-terpinol	6.020	121	12040	9.892	ppm	91
35) Nitrobenzene	5.341	77	33341	9.878	ppm	86
36) N-Nitrosopiperidine	5.480	42	19146	10.542	ppm	94
37) Isophorone	5.560	82	59750	10.057	ppm	97
38) 2-Nitrophenol	5.641	139	17785	9.719	ppm	93

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN224.D  
 Acq On : 6 Mar 2018 1:03 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 10:45:09 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.732	105	36983	15.626	ppm	96
40) 2,4-Dimethylphenol	5.667	107	34801	10.451	ppm	98
41) bis(-2-Chloroethoxy)Me...	5.758	93	37887	10.378	ppm	93
42) 2,4-Dichlorophenol	5.865	162	27678	10.189	ppm	98
43) a,a-Dimethylphenethyla...	5.892	58	66784m	10.442	ppm	
44) 1,2,4-Trichlorobenzene	5.945	180	31023	9.889	ppm	97
45) Naphthalene	6.020	128	103126	10.281	ppm	100
46) 4-Chloroaniline	6.068	127	42140	10.315	ppm	95
47) 2,6-Dichlorophenol	6.079	162	30414	10.436	ppm	98
48) Hexachlorobutadiene	6.133	225	18525	10.360	ppm	99
49) Hexachloropropene	6.101	213	21818	9.942	ppm	96
50) 4-Chloro-3-methylphenol	6.534	107	26898	9.813	ppm	97
51) N-N-di-n-butylamine	6.384	84	27080	11.794	ppm	96
52) Caprolactam	6.395	113	10631	10.425	ppm	91
53) p-Phenylenediamine	6.427	80	981	8.468	ppm	# 33
54) Safrole	6.598	162	25865	10.539	ppm	96
55) 2-Methylnaphthalene	6.689	142	67895	10.246	ppm	100
56) 1-Methylnaphthalene	6.785	142	65445	10.465	ppm	96
58) Hexachlorocyclopentadiene	6.833	237	18971	9.807	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.849	216	32670	9.932	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.128	216	31104	9.867	ppm	96
61) 2,4,6-Trichlorophenol	6.962	196	19683	9.879	ppm	95
62) 2,4,5-Trichlorophenol	6.999	196	21502	10.357	ppm	100
64) Isosafrole	7.101	104	12403	9.959	ppm	97
65) 1,1'-Biphenyl	7.138	154	85259	10.194	ppm	99
66) 2-Chloronaphthalene	7.160	162	66807	10.376	ppm	98
67) 2-Nitroaniline	7.261	65	15697	9.823	ppm	86
68) 1,4-Naphthoquinone	7.336	158	19258	9.519	ppm	93
69) m-Dinitrobenzene	7.470	168	10198	9.016	ppm	87
70) Acenaphthylene	7.566	152	104143	10.252	ppm	99
71) Dimethyl phthalate	7.432	163	78165	10.469	ppm	100
72) 2,6-Dinitrotoluene	7.497	165	17423	10.623	ppm	94
73) Acenaphthene	7.737	153	70918	10.240	ppm	96
74) 3-Nitroaniline	7.662	138	17597	9.532	ppm	96
75) 2,4-Dinitrophenol	7.769	184	4566	9.755	ppm	85
76) Dibenzofuran	7.908	168	95187	10.521	ppm	99
77) 2,4-Dinitrotoluene	7.892	165	18189	8.363	ppm	94
78) 4-Nitrophenol	7.834	65	10621	9.131	ppm	89
79) Pentachlorobenzene	7.866	250	29988	10.200	ppm	98
80) 1-Napthylamine	7.989	143	46031	10.496	ppm	96
81) 2-Napthylamine	8.064	143	60730	10.235	ppm	99
82) 2,3,4,6-Tetrachlorophenol	8.031	232	13924	8.871	ppm	93
83) Fluorene	8.245	166	77742	10.699	ppm	92
84) 4-Chlorophenyl-phenyle...	8.245	204	34913	10.701	ppm	95
85) Diethylphthalate	8.128	149	71054	9.453	ppm	99
86) 4-Nitroaniline	8.267	138	19847	9.427	ppm	96
87) 5-Nitro-o-toluidine	8.256	152	17490	8.296	ppm	99
89) Sulfotepp	8.513	322	10145	8.558	ppm	90
90) Octachlorocyclopentene	8.497	307	12601	9.941	ppm	89
92) Thionazin	8.208	107	11384	10.396	ppm	95
93) 4,6-Dinitro-2-methylph...	8.294	198	8925	7.584	ppm	91
94) Diphenylamine	8.358	169	112774	22.418	ppm	98
95) 1,2 Diphenylhydrazine	8.400	77	72073	11.685	ppm	97
96) N-Nitrosodiphenylamine	8.358	169	112774	22.418	ppm	98
97) 1,3,5-Trinitrobenzene	8.625	213	4966	7.636	ppm	# 5
98) Diallate	8.641	86	25282	11.526	ppm	86

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN224.D  
 Acq On : 6 Mar 2018 1:03 pm  
 Operator : J.Misiurewicz  
 Sample : 10 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 6 Sample Multiplier: 1

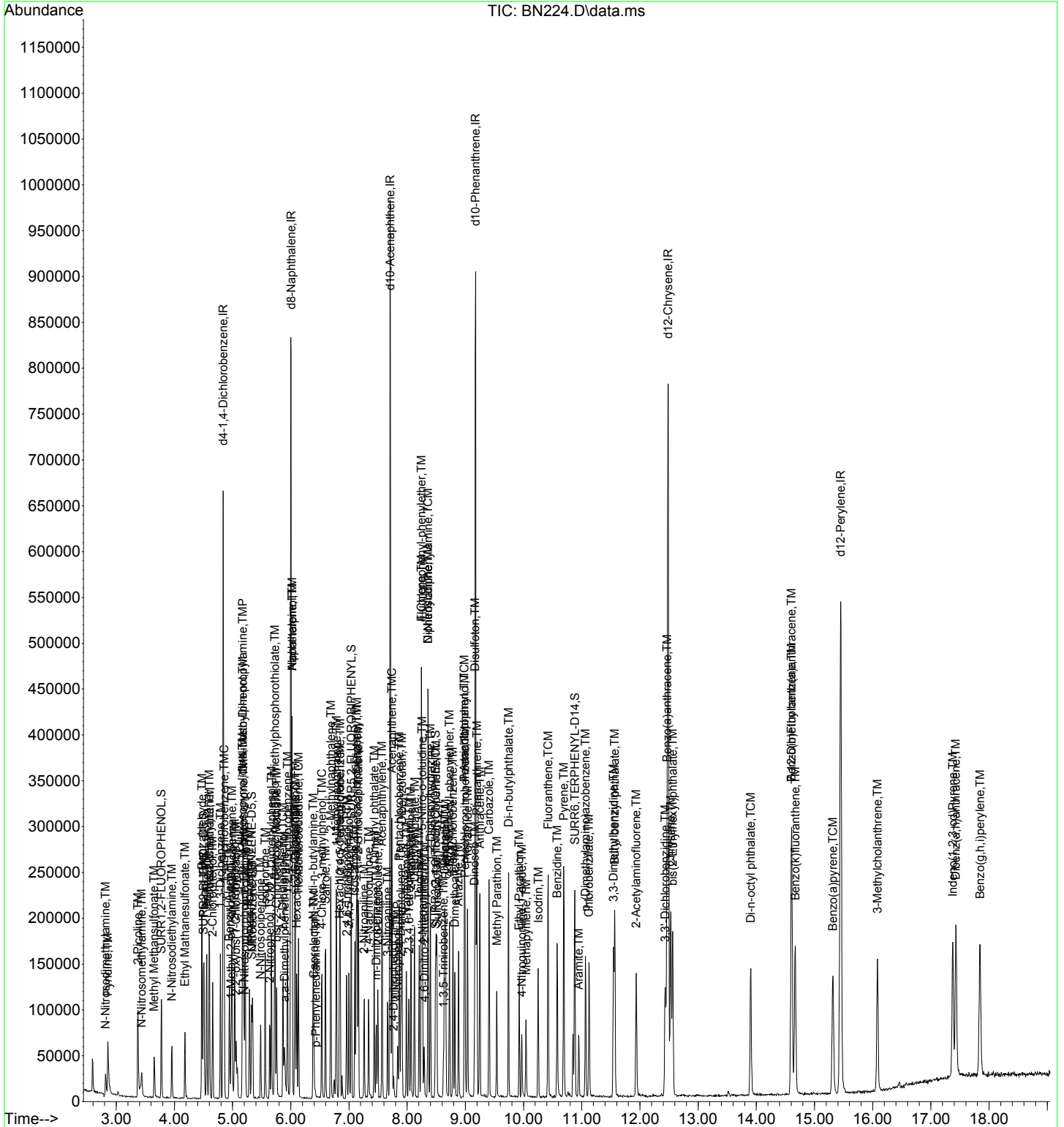
Quant Time: Mar 09 10:45:09 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.652	121	12279	10.751	ppm	98
100) Phenacetin	8.663	108	34790	10.803	ppm	90
101) 4-Bromophenyl-phenylether	8.727	248	19877	10.958	ppm	92
102) Hexachlorobenzene	8.786	284	26218	11.699	ppm	98
103) Dimethoate	8.818	87	24565	11.486	ppm	96
104) Atrazine	8.882	215	9323	11.438	ppm	90
105) Pentachlorophenol	8.983	266	10767	7.894	ppm	93
106) 4-Aminobiphenyl	8.983	169	66968	10.328	ppm	97
107) Pentachloronitrobenzene	8.994	237	7034	9.085	ppm	95
108) Pronamide	9.037	173	29461	10.373	ppm	94
109) Dinoseb	9.160	211	11592	7.129	ppm	94
110) Disulfoton	9.165	88	21480	10.029	ppm	94
111) Phenanthrene	9.197	178	93754	10.283	ppm	96
112) Anthracene	9.251	178	90495	10.000	ppm	98
113) Carbazole	9.406	167	96906	10.691	ppm	98
114) Di-n-butylphthalate	9.743	149	120466	10.520	ppm	100
115) 4-Nitroquinonline-1-oxide	9.973	190	6129	7.402	ppm	96
116) Fluoranthene	10.422	202	107740	10.739	ppm	98
118) Methyl Parathion	9.540	109	18501	9.215	ppm	98
119) Ethyl Parathion	9.925	97	12018	8.434	ppm	97
120) Methapyrilene	10.043	58	23812	9.404	ppm	100
121) Isodrin	10.251	193	10431	9.190	ppm	95
122) Benzidine	10.577	184	71981	9.716	ppm	98
123) Pyrene	10.690	202	112920	9.844	ppm	98
125) Aramite	10.946	185	12407m	9.340	ppm	
126) p-(Dimethylamino)azobe...	11.064	120	30516	9.478	ppm	98
127) Chlorobenzilate	11.123	139	31854	9.508	ppm	85
128) Butyl benzyl phthalate	11.567	149	60030	9.852	ppm	99
129) 3,3-Dimethylbenzidine	11.545	212	66849	9.371	ppm	97
130) 2-Acetylaminofluorene	11.936	181	40180	8.497	ppm	97
131) 3,3'-Dichlorobenzidine	12.433	252	38567	9.033	ppm	96
132) Benzo(a)anthracene	12.465	228	113449	9.943	ppm	97
133) Chrysene	12.530	228	109917	10.191	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.562	149	77889	9.290	ppm	98
136) Di-n-octyl phthalate	13.904	149	121902	8.934	ppm	97
137) 7,12-Dimethylbenz(a)an...	14.605	256	49539	9.403	ppm	93
138) Benzo(b)Fluoranthene	14.605	252	115461	9.834	ppm	92
139) Benzo(k)fluoranthene	14.669	252	111849	10.009	ppm	96
140) Benzo(a)pyrene	15.316	252	97558	9.734	ppm	98
141) 3-Methylcholanthrene	16.081	268	52672	9.256	ppm	94
142) Indeno(1,2,3-cd)Pyrene	17.375	276	98766	10.504	ppm	94
143) Dibenz(a,h)anthracene	17.429	278	105632	10.265	ppm	95
144) Benzo(g,h,i)perylene	17.846	276	108980	11.665	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN224.D  
Acq On : 6 Mar 2018 1:03 pm  
Operator : J.Misiurewicz  
Sample : 10 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 6 Sample Multiplier: 1

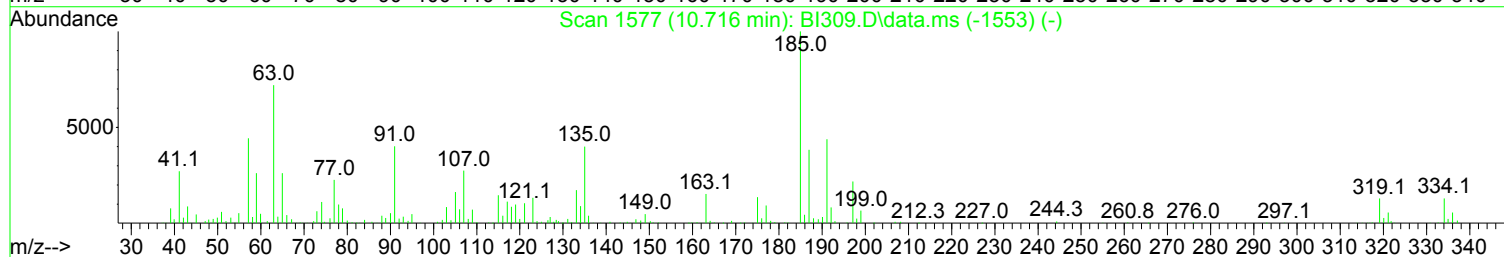
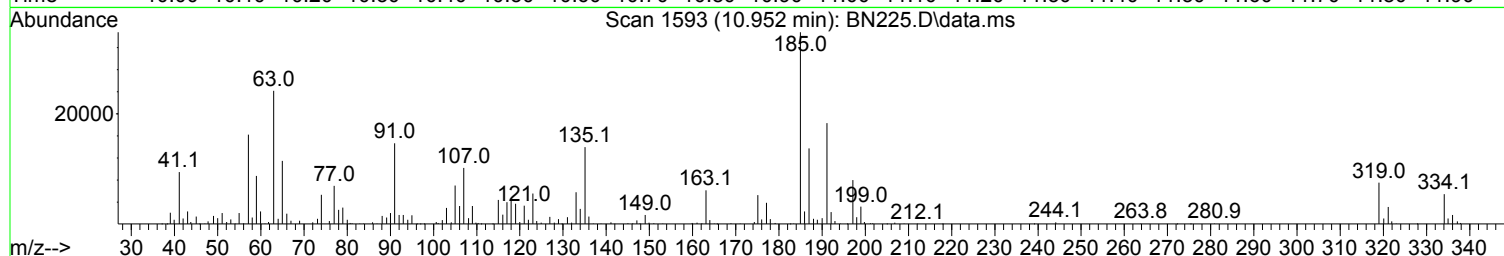
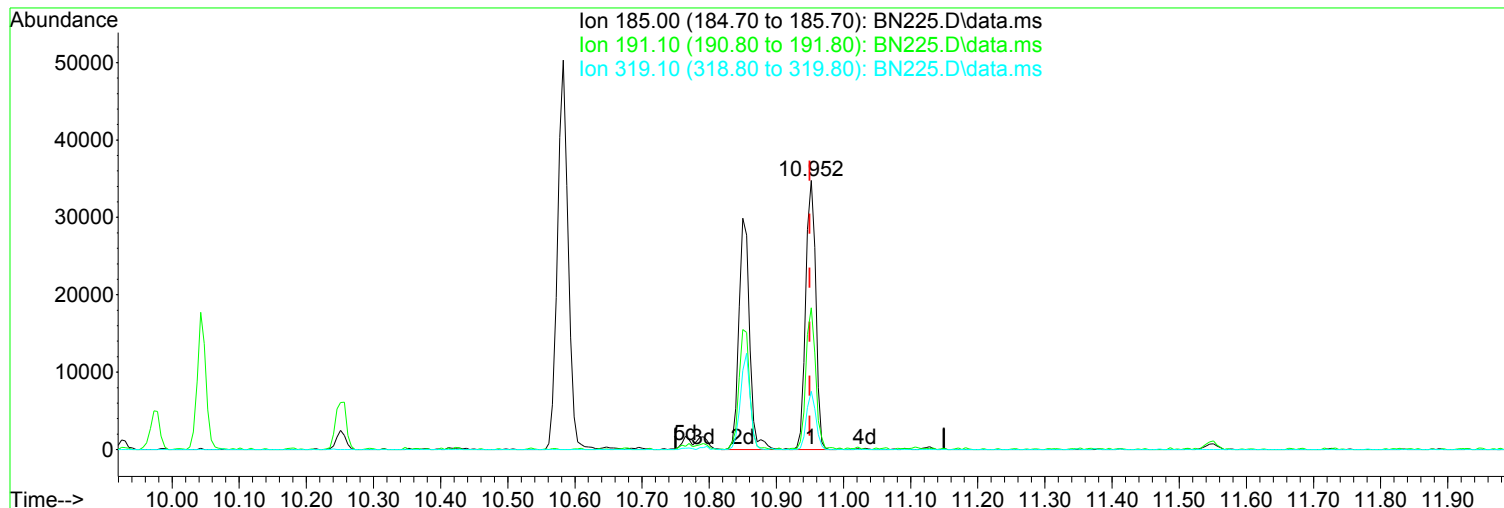
Quant Time: Mar 09 10:45:09 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN225.D  
 Acq On : 6 Mar 2018 1:32 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 10:45:15 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 51.38 ppm m

After

response 69147

Split Peak.

Ion Exp% Act%

03/09/18

185.00 100.00 100.00

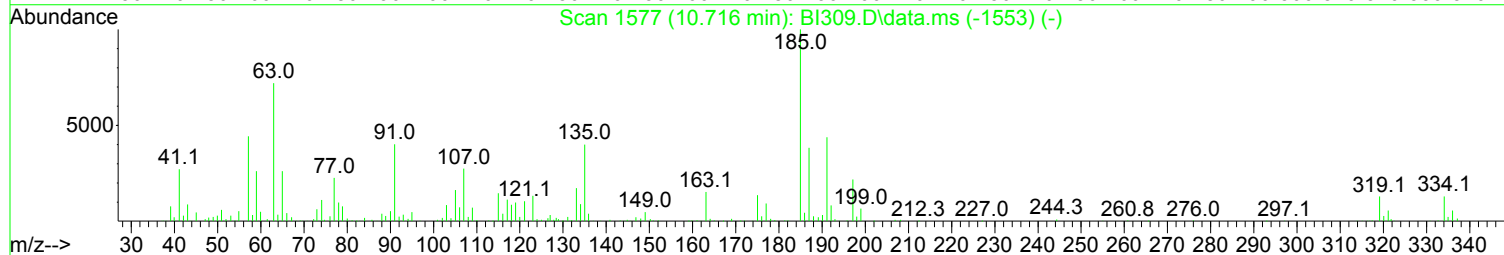
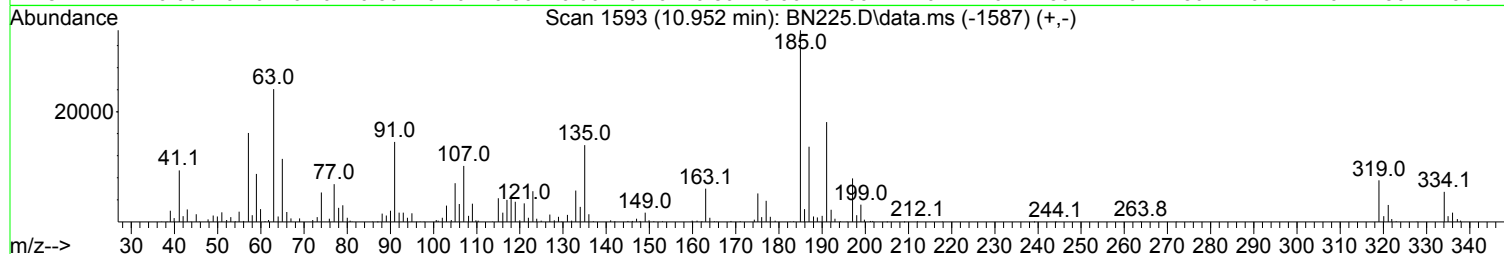
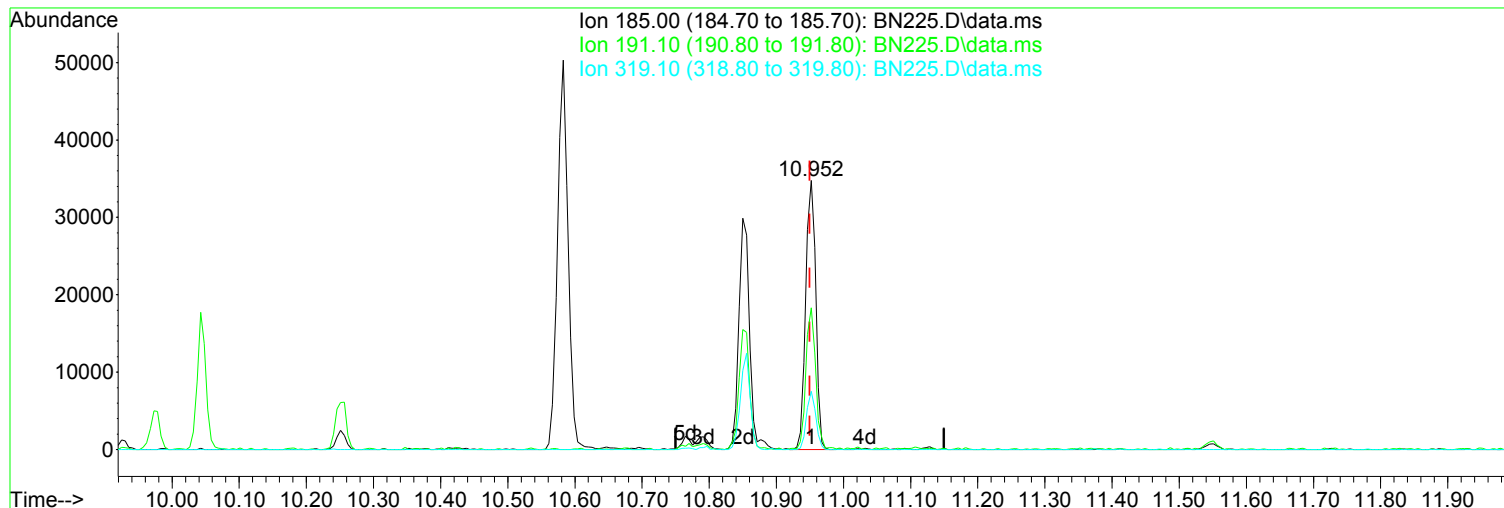
191.10 44.80 52.73

319.10 16.20 21.70

0.00 0.00 0.00

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN225.D  
Acq On : 6 Mar 2018 1:32 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 10:45:15 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN225.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 26.77 ppm

Before

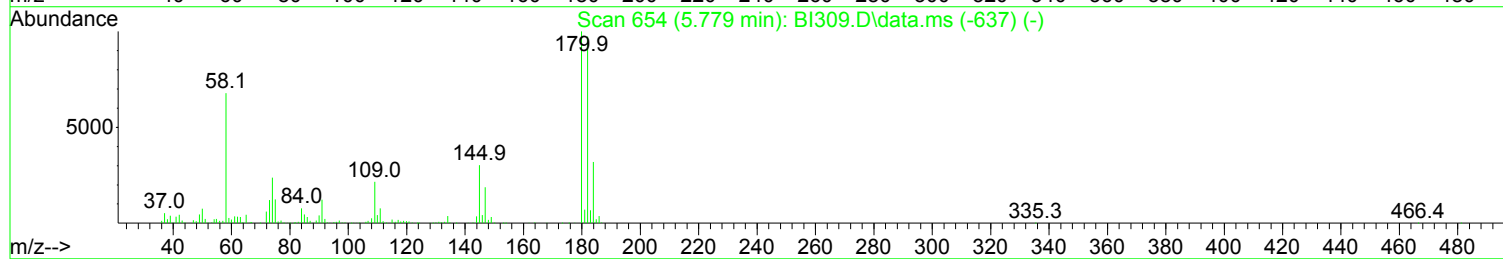
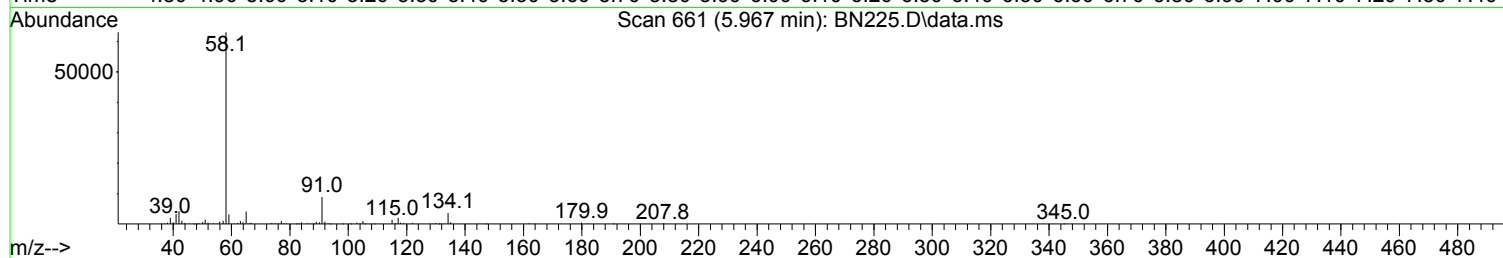
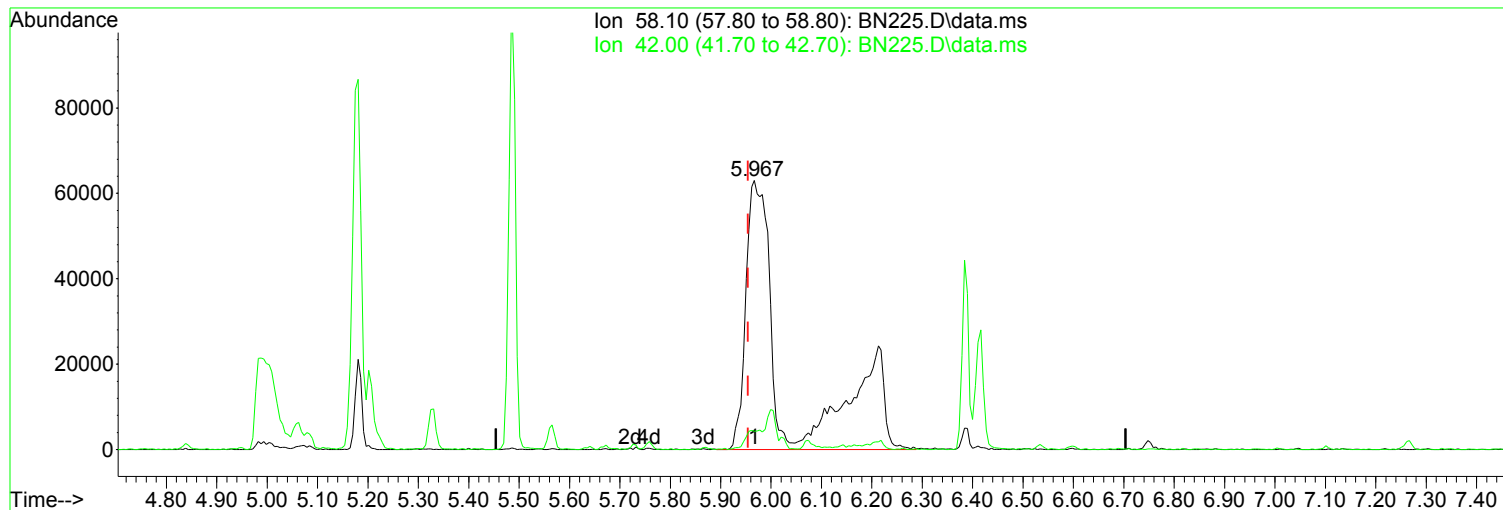
response 36024

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	52.18
319.10	16.20	21.70
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN225.D  
Acq On : 6 Mar 2018 1:32 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 10:45:15 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.967min (+ 0.012) 47.87 ppm m

After

response 320757

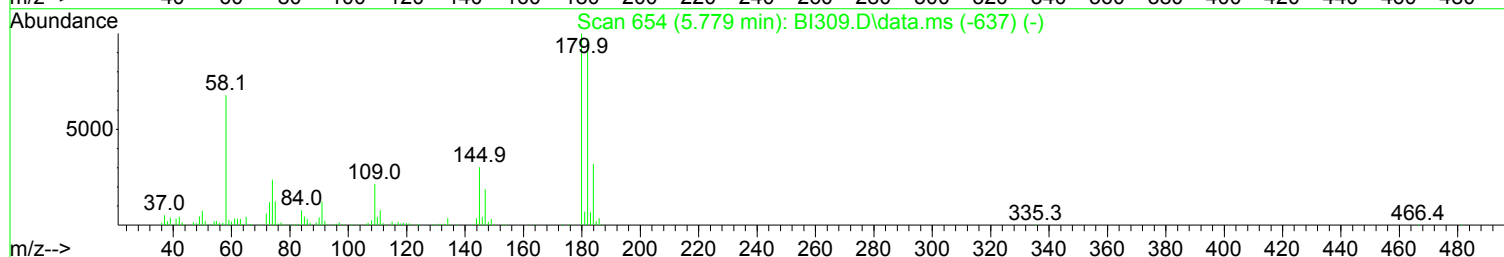
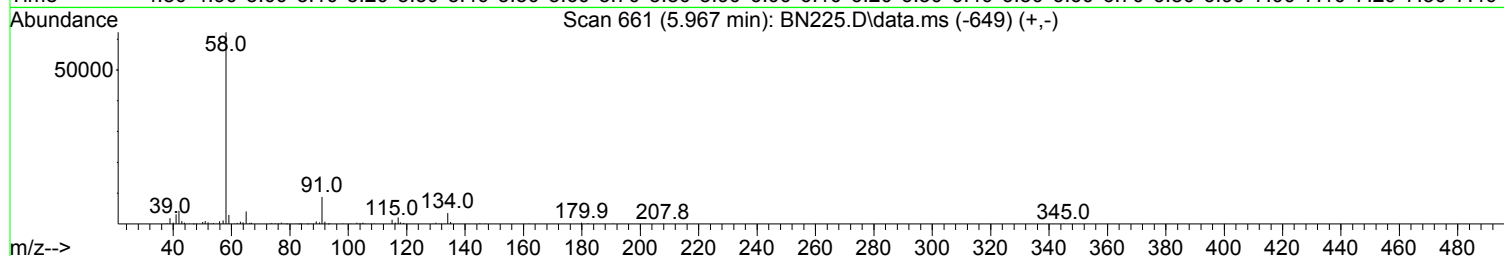
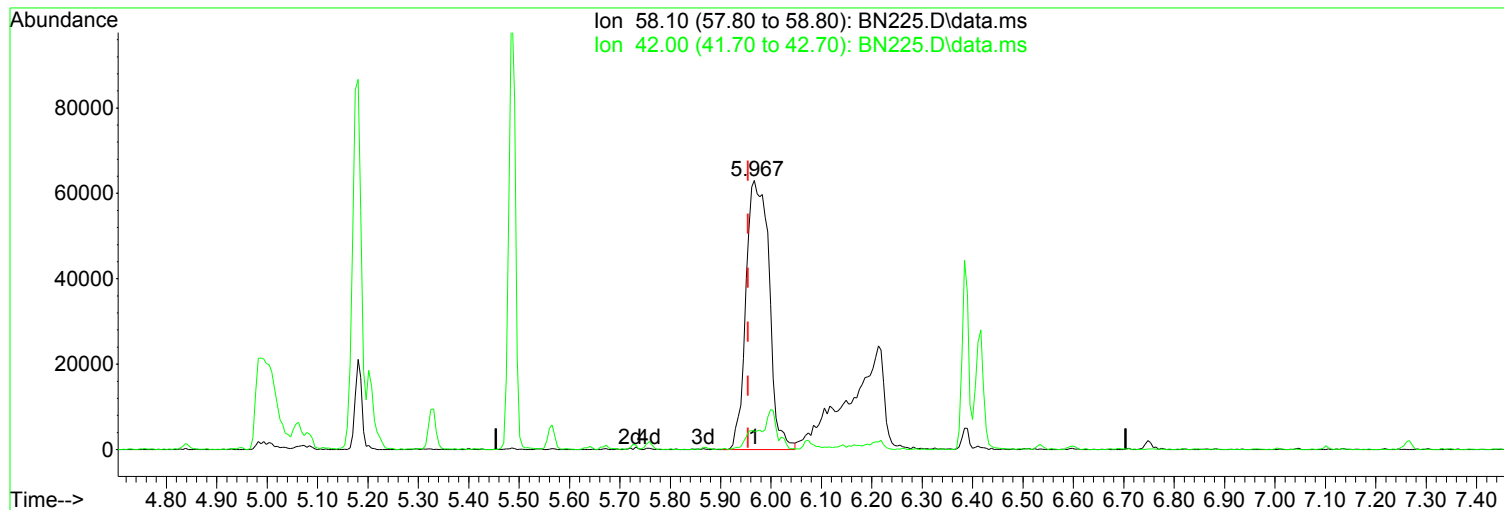
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	6.74
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN225.D  
Acq On : 6 Mar 2018 1:32 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 10:45:15 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN225.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.967min (+ 0.012) 29.88 ppm

Before

response 200232

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	6.63
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN225.D  
 Acq On : 6 Mar 2018 1:32 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 10:45:15 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.838	152	105894	40.00	ppm	0.00	
33) d8-Naphthalene	6.004	136	421366	40.00	ppm	0.00	
57) d10-Acenaphthene	7.710	164	226562	40.00	ppm	0.00	
91) d10-Phenanthrene	9.176	188	356487	40.00	ppm	0.00	
117) d12-Chrysene	12.487	240	386095	40.00	ppm	0.00	
135) d12-Perylene	15.455	264	404088	40.00	ppm	0.00	
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.774	112	175587	49.76	ppm	0.00	
Spiked Amount 200.000	Range 10	- 105	Recovery =	24.88%			
12) SURR2,PHENOL-D6	4.501	99	212087	49.60	ppm	0.00	
Spiked Amount 200.000	Range 10	- 107	Recovery =	24.80%			
34) SURR4,NITROBENZENE-D5	5.330	82	173490	49.67	ppm	0.00	
Spiked Amount 100.000	Range 37	- 117	Recovery =	49.67%			
63) SURR5,2-FLUOROBIPHENYL	7.042	172	384377	49.22	ppm	0.00	
Spiked Amount 100.000	Range 39	- 119	Recovery =	49.22%			
88) SURR3,2,4,6-TRIBROMOPH...	8.486	330	60960	46.76	ppm	0.00	
Spiked Amount 200.000	Range 28	- 157	Recovery =	23.38%#			
124) SURR6,TERPHENYL-D14	10.882	244	445191	51.43	ppm	0.00	
Spiked Amount 100.000	Range 40	- 133	Recovery =	51.43%			
Target Compounds							
							Qvalue
2) Pyridine	2.849	79	170613	50.872	ppm		98
3) N-Nitrosodimethylamine	2.811	74	86682	52.146	ppm		96
4) 2-Picoline	3.367	93	174649	49.772	ppm		98
5) N-Nitrosomethylamine	3.432	42	74619	48.733	ppm		96
6) Methyl Methansulfonate	3.651	80	93435	50.796	ppm		96
8) N-Nitrosodiethylamine	3.956	102	75746	50.124	ppm		98
9) Ethyl Mathanesulfonate	4.180	79	121762	48.768	ppm		97
10) Benzaldehyde	4.474	106	110277	48.622	ppm		99
11) Aniline	4.555	93	301280	49.720	ppm		97
13) Phenol	4.512	94	207816	48.966	ppm		99
14) bis(2-Clethyl)Ether	4.598	93	152349	49.385	ppm		98
15) Pentachloroethane	4.603	117	62934	46.940	ppm		99
16) 2-Chlorophenol	4.656	128	180524	49.326	ppm		96
17) 1,3-Diclbzene	4.790	146	195685	49.867	ppm		99
18) 1,4-Dichlorobenzene	4.854	146	196432	48.252	ppm		99
19) 1,2-Diclbzene	4.988	146	186483	48.359	ppm		97
20) Benzyl Alcohol	4.945	79	136048	50.778	ppm		95
21) 1-Methyl-2-pyrrolidinone	4.988	99	112402	52.310	ppm		94
22) 2,2'-oxybis(1-Chloropr...	5.063	45	151595	48.134	ppm		97
23) 2-Methylphenol	5.041	108	157785	49.684	ppm		99
24) 3+4-Methylphenol	5.181	108	163960	48.709	ppm		96
25) Acetophenone	5.186	105	235446	49.230	ppm		93
26) N-Nitroso-Di-n-propyla...	5.181	70	115894	48.928	ppm		93
27) N-Nitrosopyrrolidine	5.175	100	90036	49.719	ppm		96
28) N-Nitrosomorpholine	5.202	56	86749	48.747	ppm		99
29) o-Toluidine	5.218	106	265775	48.973	ppm		96
30) Hexachloroethane	5.287	117	77294	49.131	ppm		97
31) o,o,o-Triethylphosphor...	5.726	198	79597	48.105	ppm		95
32) Alpha-terpinol	6.026	121	60334	47.194	ppm		97
35) Nitrobenzene	5.346	77	176122	49.813	ppm		88
36) N-Nitrosopiperidine	5.485	42	94767	49.809	ppm		99
37) Isophorone	5.566	82	317454	51.007	ppm		100
38) 2-Nitrophenol	5.641	139	95760	49.955	ppm		98

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN225.D  
 Acq On : 6 Mar 2018 1:32 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 10:45:15 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.753	105	117986	47.589	ppm	95
40) 2,4-Dimethylphenol	5.673	107	172377	49.418	ppm	98
41) bis(-2-Chloroethoxy)Me...	5.758	93	186918	48.875	ppm	99
42) 2,4-Dichlorophenol	5.870	162	143444	50.407	ppm	97
43) a,a-Dimethylphenethyla...	5.967	58	320757m	47.873	ppm	
44) 1,2,4-Trichlorobenzene	5.945	180	160451	48.826	ppm	98
45) Naphthalene	6.026	128	503063	47.876	ppm	99
46) 4-Chloroaniline	6.074	127	211970	49.529	ppm	98
47) 2,6-Dichlorophenol	6.079	162	153358	50.234	ppm	97
48) Hexachlorobutadiene	6.133	225	90489	48.306	ppm	95
49) Hexachloropropene	6.106	213	113471	49.359	ppm	99
50) 4-Chloro-3-methylphenol	6.534	107	147237	51.275	ppm	99
51) N-N-di-n-butylamine	6.384	84	112549	46.792	ppm	93
52) Caprolactam	6.416	113	53590	50.166	ppm	93
53) p-Phenylenediamine	6.427	80	6451	53.158	ppm	81
54) Safrole	6.598	162	125183	48.689	ppm	99
55) 2-Methylnaphthalene	6.689	142	342654	49.362	ppm	97
56) 1-Methylnaphthalene	6.785	142	319128	48.712	ppm	100
58) Hexachlorocyclopentadiene	6.839	237	99331	50.108	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.849	216	164999	48.949	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.127	216	161084	49.861	ppm	98
61) 2,4,6-Trichlorophenol	6.962	196	106275	52.050	ppm	98
62) 2,4,5-Trichlorophenol	7.004	196	111739	52.517	ppm	100
64) Isosafrole	7.101	104	64171	50.280	ppm	94
65) 1,1'-Biphenyl	7.143	154	420492	49.057	ppm	99
66) 2-Chloronaphthalene	7.165	162	329409	49.923	ppm	96
67) 2-Nitroaniline	7.266	65	84948	51.873	ppm	96
68) 1,4-Naphthoquinone	7.341	158	111249	53.660	ppm	90
69) m-Dinitrobenzene	7.475	168	56602	48.831	ppm	75
70) Acenaphthylene	7.571	152	526657	50.590	ppm	100
71) Dimethyl phthalate	7.438	163	370531	48.427	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	84410	50.220	ppm	88
73) Acenaphthene	7.743	153	357445	50.364	ppm	96
74) 3-Nitroaniline	7.668	138	91857	48.554	ppm	97
75) 2,4-Dinitrophenol	7.769	184	33355	48.564	ppm	97
76) Dibenzofuran	7.914	168	469619	50.652	ppm	97
77) 2,4-Dinitrotoluene	7.898	165	111287	49.928	ppm	94
78) 4-Nitrophenol	7.839	65	61646	51.715	ppm	84
79) Pentachlorobenzene	7.871	250	151727	50.358	ppm	98
80) 1-Naphthylamine	7.989	143	208601	46.413	ppm	98
81) 2-Naphthylamine	8.069	143	287460	47.272	ppm	100
82) 2,3,4,6-Tetrachlorophenol	8.031	232	76460	47.535	ppm	98
83) Fluorene	8.251	166	378247	50.796	ppm	100
84) 4-Chlorophenyl-phenyle...	8.245	204	169961	50.832	ppm	94
85) Diethylphthalate	8.128	149	374838	48.661	ppm	100
86) 4-Nitroaniline	8.272	138	110462	51.200	ppm	97
87) 5-Nitro-o-toluidine	8.261	152	107926	49.955	ppm	100
89) Sulfotepp	8.513	322	59855	49.267	ppm	97
90) Octachlorocyclopentene	8.497	307	66897	51.498	ppm	99
92) Thionazin	8.213	107	56104	46.474	ppm	93
93) 4,6-Dinitro-2-methylph...	8.299	198	62361	48.068	ppm	98
94) Diphenylamine	8.363	169	517554	93.328	ppm	100
95) 1,2 Diphenylhydrazine	8.400	77	339718	49.962	ppm	99
96) N-Nitrosodiphenylamine	8.363	169	517554	93.329	ppm	100
97) 1,3,5-Trinitrobenzene	8.636	213	34478	48.094	ppm	# 37
98) Diallate	8.641	86	115966	47.958	ppm	82

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN225.D  
 Acq On : 6 Mar 2018 1:32 pm  
 Operator : J.Misiurewicz  
 Sample : 50 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 7 Sample Multiplier: 1

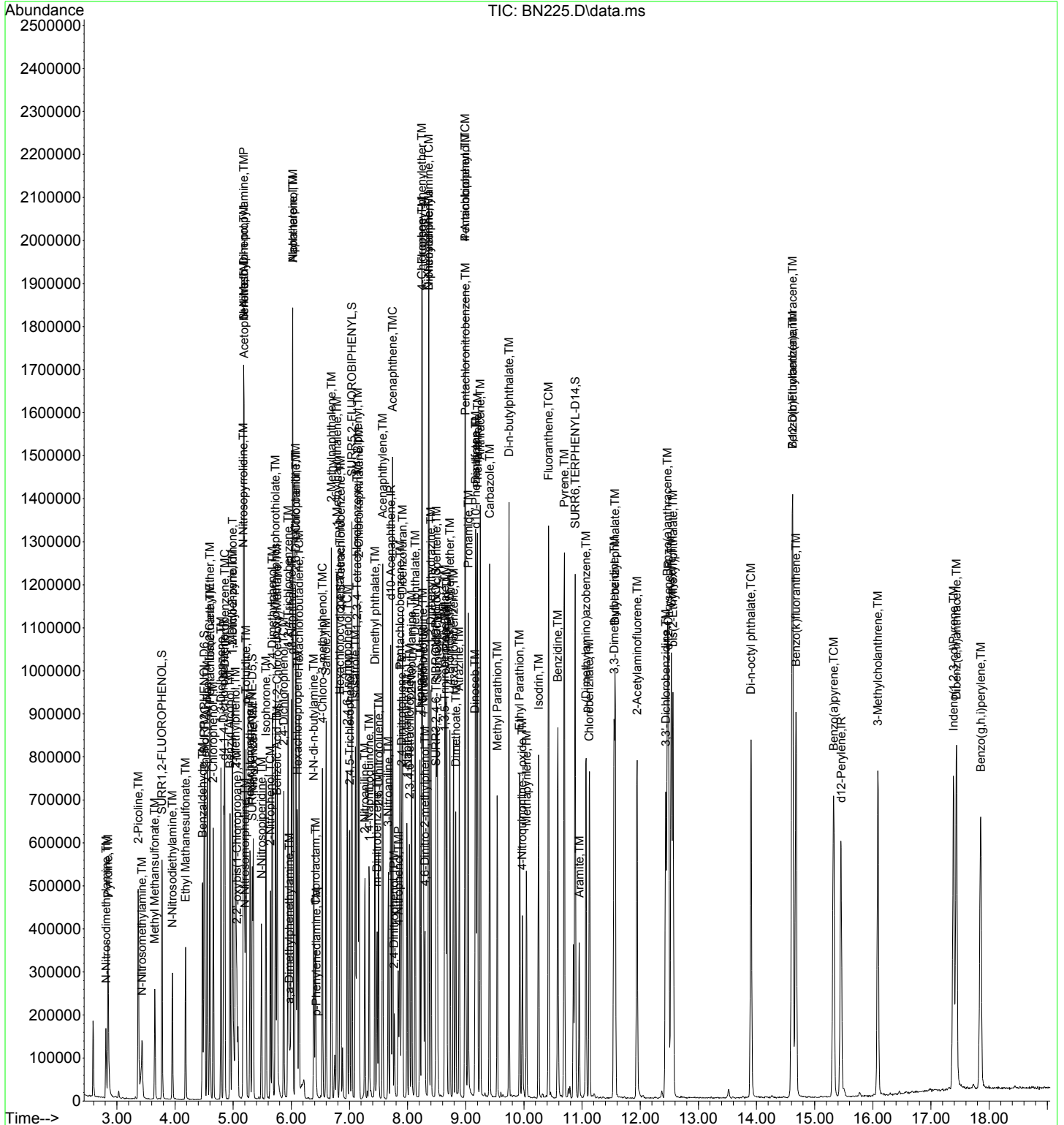
Quant Time: Mar 09 10:45:15 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.652	121	62205	49.408	ppm	98
100) Phenacetin	8.673	108	189733	53.443	ppm	96
101) 4-Bromophenyl-phenylether	8.727	248	94192	47.104	ppm	94
102) Hexachlorobenzene	8.791	284	117118	47.406	ppm	93
103) Dimethoate	8.828	87	128592	54.544	ppm	98
104) Atrazine	8.887	215	48443	53.914	ppm	92
105) Pentachlorophenol	8.989	266	75014	49.887	ppm	94
106) 4-Aminobiphenyl	8.989	169	378960	53.016	ppm	100
107) Pentachloronitrobenzene	8.994	237	45766	53.621	ppm	93
108) Pronamide	9.042	173	169793	54.232	ppm	98
109) Dinoseb	9.160	211	86707	48.370	ppm	97
110) Disulfoton	9.171	88	118953	50.380	ppm	95
111) Phenanthrene	9.203	178	510457	50.786	ppm	100
112) Anthracene	9.251	178	509868	51.108	ppm	98
113) Carbazole	9.411	167	533228	53.362	ppm	98
114) Di-n-butylphthalate	9.743	149	687135	54.431	ppm	99
115) 4-Nitroquinonline-1-oxide	9.973	190	45645	50.005	ppm	96
116) Fluoranthene	10.422	202	593140	53.632	ppm	99
118) Methyl Parathion	9.540	109	114370	56.230	ppm	95
119) Ethyl Parathion	9.925	97	76607	53.065	ppm	96
120) Methapyrilene	10.042	58	133798	52.161	ppm	99
121) Isodrin	10.251	193	56051	48.746	ppm	94
122) Benzidine	10.583	184	390476	52.025	ppm	99
123) Pyrene	10.695	202	614309	52.862	ppm	100
125) Aramite	10.952	185	69147m	51.381	ppm	
126) p-(Dimethylamino)azobe...	11.069	120	172121	52.767	ppm	92
127) Chlorobenzilate	11.123	139	171443	50.515	ppm	92
128) Butyl benzyl phthalate	11.567	149	311987	50.542	ppm	97
129) 3,3-Dimethylbenzidine	11.551	212	377009	52.168	ppm	99
130) 2-Acetylaminofluorene	11.947	181	249866	52.156	ppm	98
131) 3,3'-Dichlorobenzidine	12.439	252	226665	52.400	ppm	95
132) Benzo(a)anthracene	12.471	228	589418	50.991	ppm	98
133) Chrysene	12.535	228	547245	50.084	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.562	149	437228	51.476	ppm	99
136) Di-n-octyl phthalate	13.904	149	744235	52.230	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.621	256	285665	51.924	ppm	97
138) Benzo(b)Fluoranthene	14.621	252	634512	51.751	ppm	99
139) Benzo(k)fluoranthene	14.680	252	603122	51.684	ppm	99
140) Benzo(a)pyrene	15.327	252	540727	51.663	ppm	98
141) 3-Methylcholanthrene	16.086	268	310798	52.301	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.386	276	504026	51.329	ppm	95
143) Dibenz(a,h)anthracene	17.440	278	557200	51.849	ppm	96
144) Benzo(g,h,i)perylene	17.857	276	498860	51.133	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN225.D  
Acq On : 6 Mar 2018 1:32 pm  
Operator : J.Misiurewicz  
Sample : 50 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 7 Sample Multiplier: 1

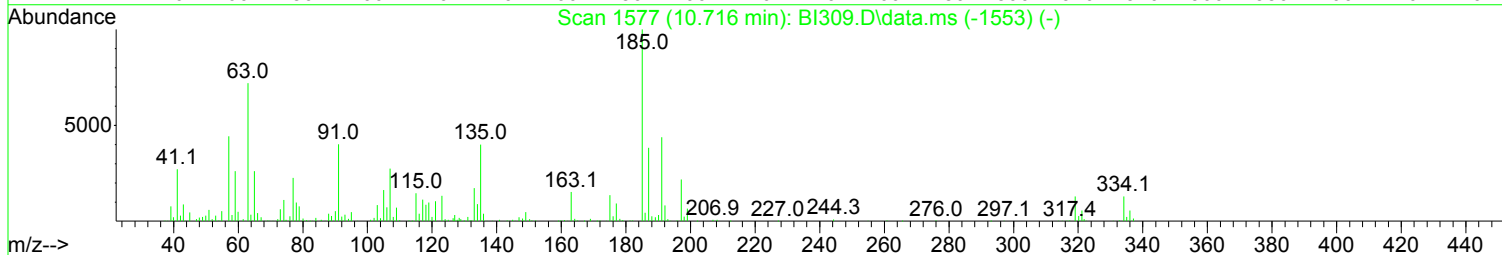
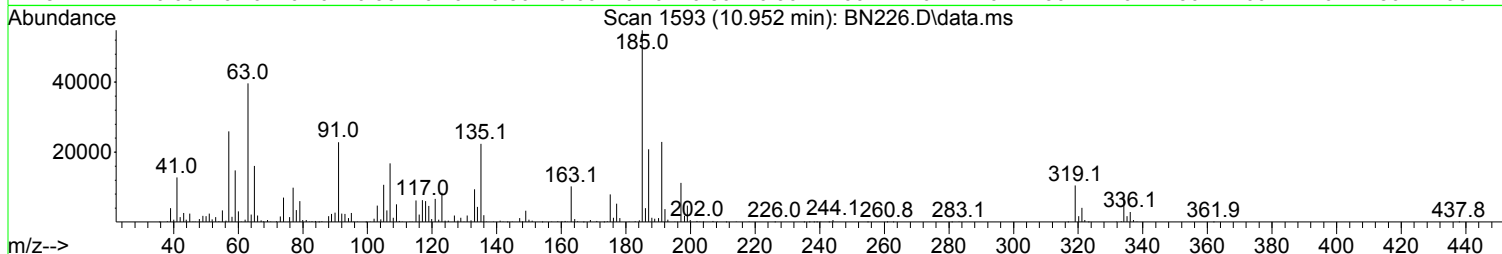
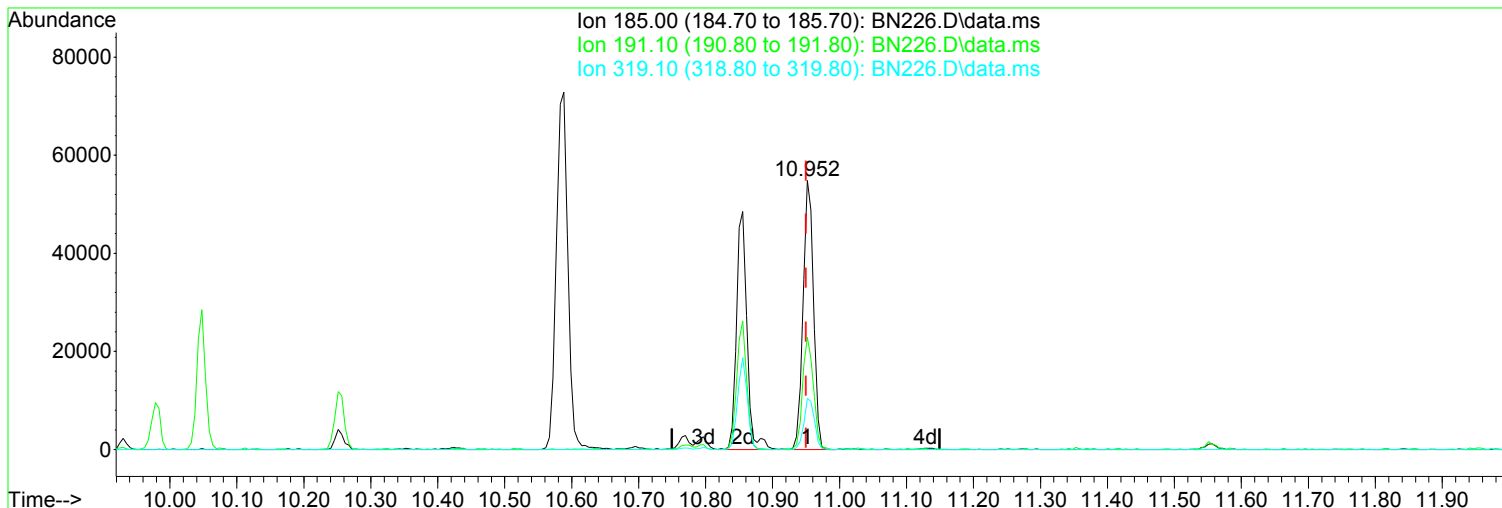
Quant Time: Mar 09 10:45:15 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN226.D  
 Acq On : 6 Mar 2018 2:01 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 10:45:21 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



TIC: BN226.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 84.13 ppm m

After

response 112078

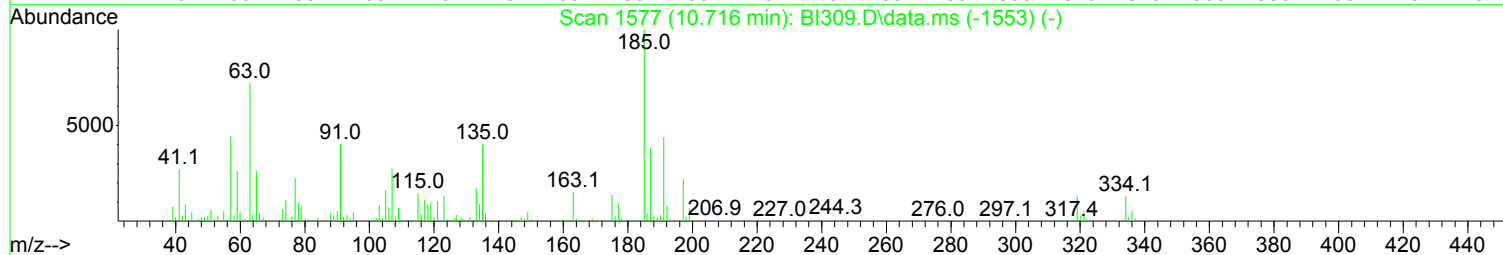
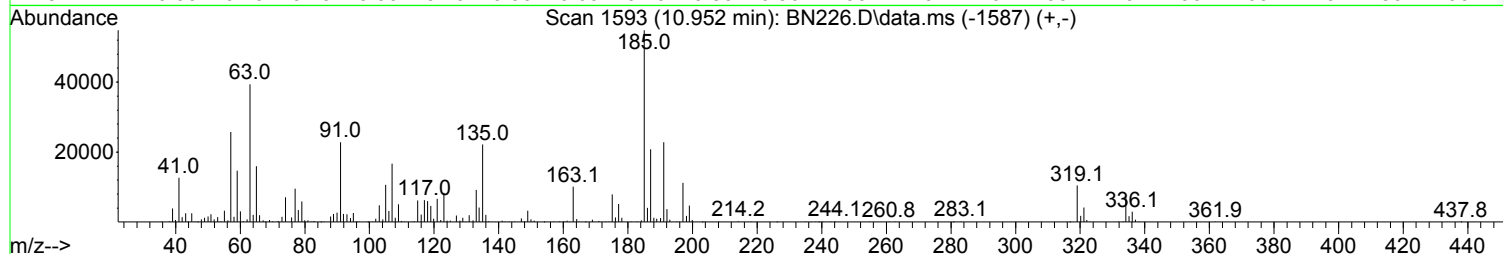
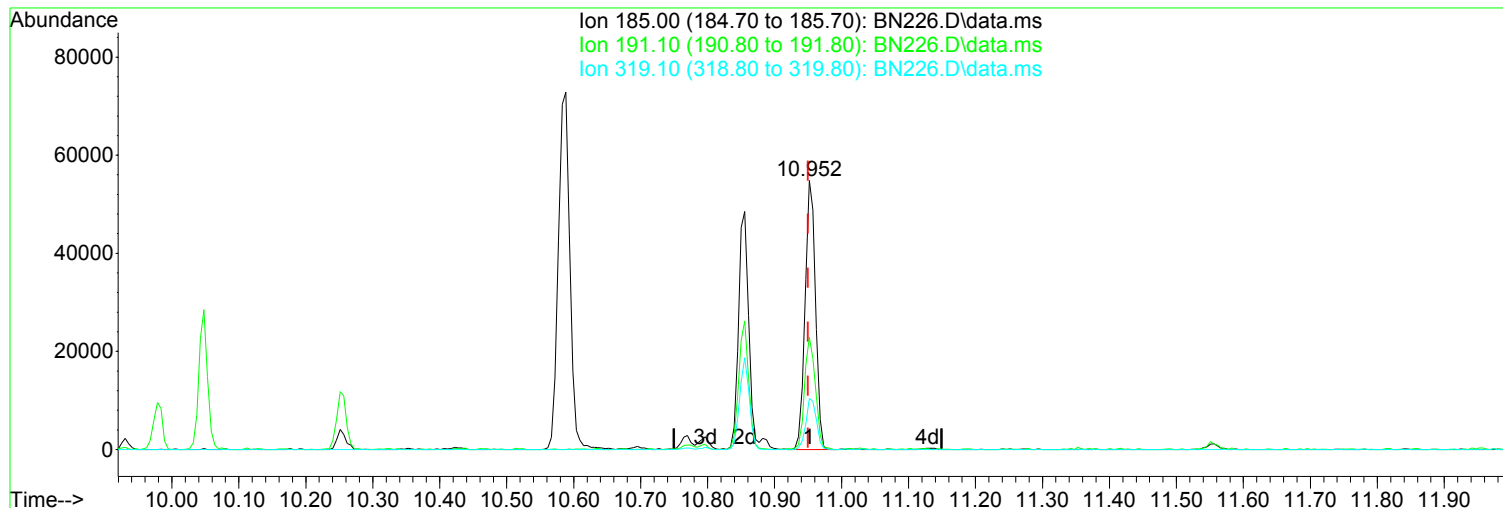
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	41.76
319.10	16.20	19.07
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN226.D  
 Acq On : 6 Mar 2018 2:01 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 10:45:21 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



TIC: BN226.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 44.66 ppm

Before

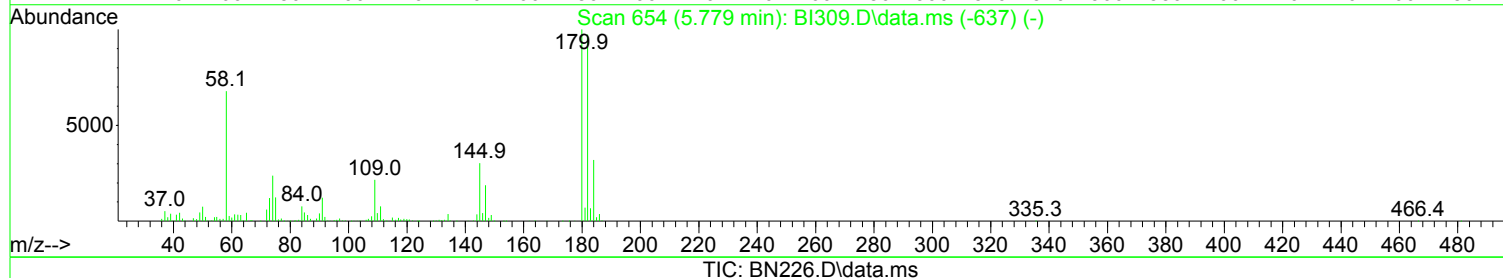
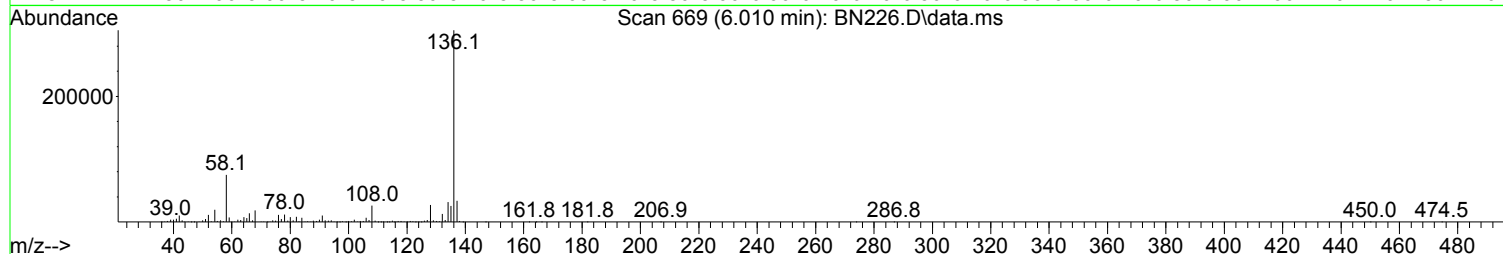
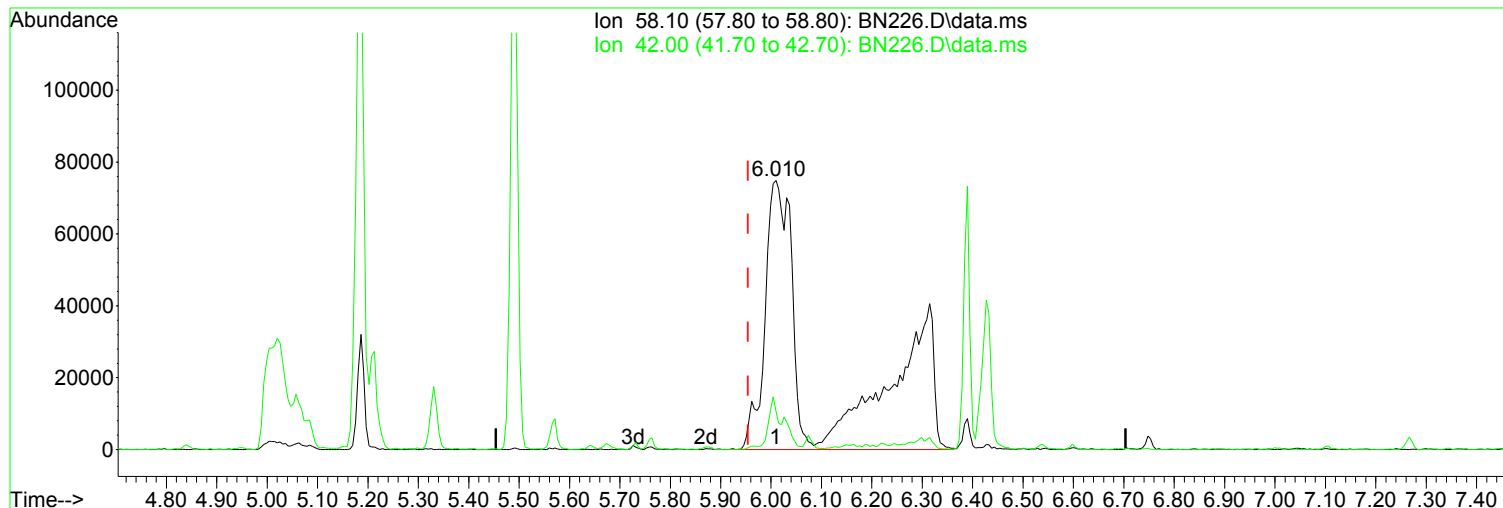
response 59499

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	41.58
319.10	16.20	18.98
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN226.D  
Acq On : 6 Mar 2018 2:01 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 10:45:21 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.055) 76.68 ppm m

After

response 512202

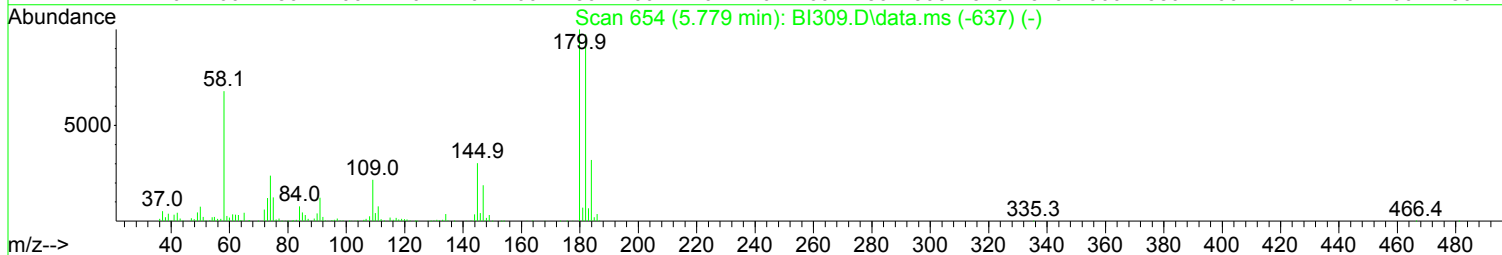
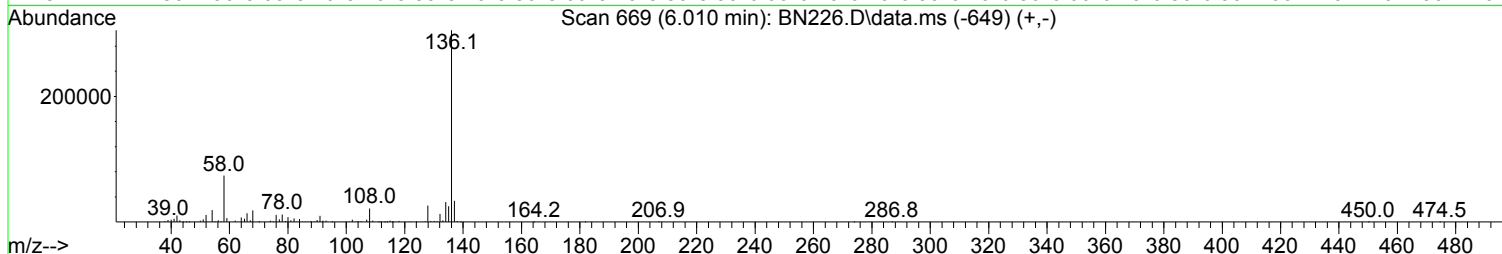
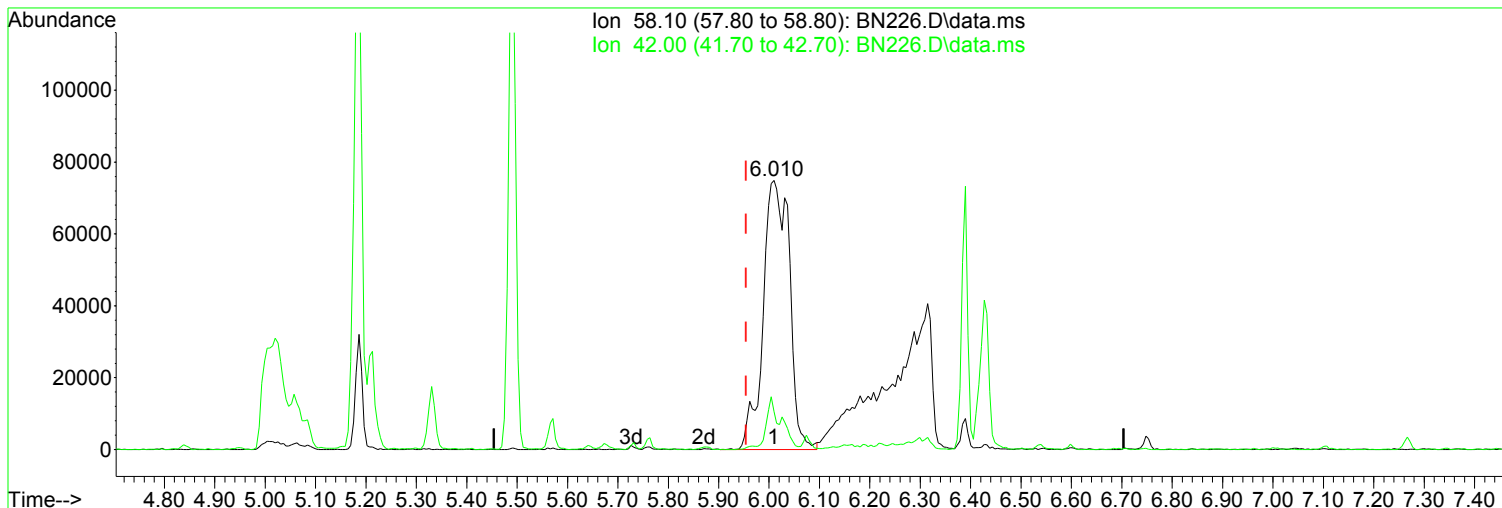
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	14.07
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN226.D  
Acq On : 6 Mar 2018 2:01 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 10:45:21 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.010min (+ 0.055) 40.72 ppm

Before

response 272027

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	14.03
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN226.D  
 Acq On : 6 Mar 2018 2:01 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 10:45:21 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.838	152	104021	40.00	ppm	0.00	
33) d8-Naphthalene	6.004	136	420075	40.00	ppm	0.00	
57) d10-Acenaphthene	7.711	164	228497	40.00	ppm	0.00	
91) d10-Phenanthrene	9.181	188	370824	40.00	ppm	0.00	
117) d12-Chrysene	12.492	240	382218	40.00	ppm	0.00	
135) d12-Perylene	15.461	264	400700	40.00	ppm	0.00	
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.779	112	284058	81.94	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	40.97%	
12) SURR2,PHENOL-D6	4.501	99	340784	81.14	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	40.57%	
34) SURR4,NITROBENZENE-D5	5.330	82	280380	80.53	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	80.53%	
63) SURR5,2-FLUOROBIPHENYL	7.042	172	619839	78.70	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	78.70%	
88) SURR3,2,4,6-TRIBROMOPH...	8.491	330	107698	81.92	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	40.96%	
124) SURR6,TERPHENYL-D14	10.882	244	702865	82.02	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	82.02%	
Target Compounds							
							Qvalue
2) Pyridine	2.849	79	279502	84.840	ppm		98
3) N-Nitrosodimethylamine	2.811	74	141957	86.935	ppm		97
4) 2-Picoline	3.367	93	284401	82.509	ppm		98
5) N-Nitrosomethylamine	3.437	42	118701	78.918	ppm		97
6) Methyl Methansulfonate	3.656	80	144865	80.173	ppm		98
8) N-Nitrosodiethylamine	3.956	102	120357	81.078	ppm		95
9) Ethyl Mathanesulfonate	4.186	79	200115	81.593	ppm		96
10) Benzaldehyde	4.475	106	180239	80.900	ppm		98
11) Aniline	4.555	93	479929	80.629	ppm		98
13) Phenol	4.512	94	335088	80.375	ppm		96
14) bis(2-Clethyl)Ether	4.598	93	242718	80.095	ppm		99
15) Pentachloroethane	4.603	117	105148	79.837	ppm		99
16) 2-Chlorophenol	4.662	128	291422	81.061	ppm		95
17) 1,3-Diclbzene	4.790	146	313914	81.436	ppm		97
18) 1,4-Dichlorobenzene	4.854	146	321505	80.397	ppm		99
19) 1,2-Diclbzene	4.988	146	303267	80.059	ppm		99
20) Benzyl Alcohol	4.951	79	217395	82.601	ppm		100
21) 1-Methyl-2-pyrrolidinone	5.020	99	177614	84.147	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.063	45	243185	78.606	ppm		93
23) 2-Methylphenol	5.047	108	251377	80.580	ppm		99
24) 3+4-Methylphenol	5.186	108	263721	79.757	ppm		97
25) Acetophenone	5.191	105	377214	80.293	ppm		95
26) N-Nitroso-Di-n-propyla...	5.186	70	186904	80.328	ppm		99
27) N-Nitrosopyrrolidine	5.181	100	142929	80.349	ppm		98
28) N-Nitrosomorpholine	5.207	56	140251	80.231	ppm		94
29) o-Toluidine	5.223	106	427969	80.280	ppm		96
30) Hexachloroethane	5.293	117	125165	80.992	ppm		91
31) o,o,o-Triethylphosphor...	5.732	198	131645	80.993	ppm		65
32) Alpha-terpinol	6.026	121	97201	77.401	ppm		90
35) Nitrobenzene	5.346	77	284592	80.738	ppm		95
36) N-Nitrosopiperidine	5.491	42	148138	78.100	ppm		96
37) Isophorone	5.571	82	503141	81.090	ppm		100
38) 2-Nitrophenol	5.641	139	159044	83.224	ppm		99

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN226.D  
 Acq On : 6 Mar 2018 2:01 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 10:45:21 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.769	105	206888	83.703	ppm	95
40) 2,4-Dimethylphenol	5.678	107	277310	79.745	ppm	93
41) bis(-2-Chloroethoxy)Me...	5.764	93	308297	80.861	ppm	98
42) 2,4-Dichlorophenol	5.876	162	230742	81.334	ppm	97
43) a,a-Dimethylphenethyla...	6.010	58	512202m	76.681	ppm	
44) 1,2,4-Trichlorobenzene	5.945	180	261694	79.879	ppm	98
45) Naphthalene	6.026	128	822376	78.505	ppm	99
46) 4-Chloroaniline	6.074	127	339670	79.611	ppm	98
47) 2,6-Dichlorophenol	6.085	162	246367	80.949	ppm	97
48) Hexachlorobutadiene	6.133	225	151256	80.994	ppm	97
49) Hexachloropropene	6.106	213	186115	81.208	ppm	97
50) 4-Chloro-3-methylphenol	6.539	107	231919	81.013	ppm	99
51) N-N-di-n-butylamine	6.389	84	177135	73.869	ppm	94
52) Caprolactam	6.427	113	85292	80.087	ppm	94
53) p-Phenylenediamine	6.432	80	9690	80.094	ppm	82
54) Safrole	6.598	162	203657	79.455	ppm	98
55) 2-Methylnaphthalene	6.689	142	546731	79.002	ppm	97
56) 1-Methylnaphthalene	6.785	142	513801	78.668	ppm	99
58) Hexachlorocyclopentadiene	6.839	237	166189	83.125	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.849	216	268422	78.957	ppm	97
60) 1,2,3,4-Tetrachloroben...	7.128	216	259656	79.692	ppm	99
61) 2,4,6-Trichlorophenol	6.962	196	167927	81.549	ppm	98
62) 2,4,5-Trichlorophenol	7.005	196	170284	79.356	ppm	99
64) Isosafrole	7.106	104	102181	79.384	ppm	93
65) 1,1'-Biphenyl	7.144	154	677971	78.426	ppm	99
66) 2-Chloronaphthalene	7.165	162	530014	79.645	ppm	98
67) 2-Nitroaniline	7.267	65	134177	81.240	ppm	98
68) 1,4-Naphthoquinone	7.341	158	170779	81.676	ppm	99
69) m-Dinitrobenzene	7.481	168	93667	80.124	ppm	# 65
70) Acenaphthylene	7.571	152	830261	79.078	ppm	100
71) Dimethyl phthalate	7.443	163	579768	75.132	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	133021	78.471	ppm	94
73) Acenaphthene	7.743	153	558643	78.047	ppm	99
74) 3-Nitroaniline	7.673	138	156275	81.904	ppm	95
75) 2,4-Dinitrophenol	7.775	184	64003	81.159	ppm	94
76) Dibenzofuran	7.914	168	727360	77.788	ppm	100
77) 2,4-Dinitrotoluene	7.903	165	185112	82.346	ppm	96
78) 4-Nitrophenol	7.839	65	102647	85.382	ppm	97
79) Pentachlorobenzene	7.871	250	236625	77.870	ppm	98
80) 1-Naphthylamine	7.994	143	346999	76.553	ppm	96
81) 2-Naphthylamine	8.069	143	477971	77.935	ppm	98
82) 2,3,4,6-Tetrachlorophenol	8.031	232	133240	82.134	ppm	97
83) Fluorene	8.251	166	566746	75.466	ppm	99
84) 4-Chlorophenyl-phenyle...	8.245	204	253941	75.306	ppm	97
85) Diethylphthalate	8.133	149	605679	77.963	ppm	99
86) 4-Nitroaniline	8.277	138	177839	81.732	ppm	97
87) 5-Nitro-o-toluidine	8.267	152	179097	82.196	ppm	99
89) Sulfotepp	8.513	322	104490	85.278	ppm	94
90) Octachlorocyclopentene	8.497	307	105492	80.520	ppm	96
92) Thionazin	8.213	107	96995	77.240	ppm	96
93) 4,6-Dinitro-2-methylph...	8.304	198	112423	83.305	ppm	97
94) Diphenylamine	8.368	169	868438	150.547	ppm	99
95) 1,2 Diphenylhydrazine	8.406	77	522092	73.816	ppm	96
96) N-Nitrosodiphenylamine	8.368	169	868438	150.549	ppm	99
97) 1,3,5-Trinitrobenzene	8.647	213	61038	81.851	ppm	# 29
98) Diallate	8.641	86	189840	75.474	ppm	83

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN226.D  
 Acq On : 6 Mar 2018 2:01 pm  
 Operator : J.Misiurewicz  
 Sample : 80 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 8 Sample Multiplier: 1

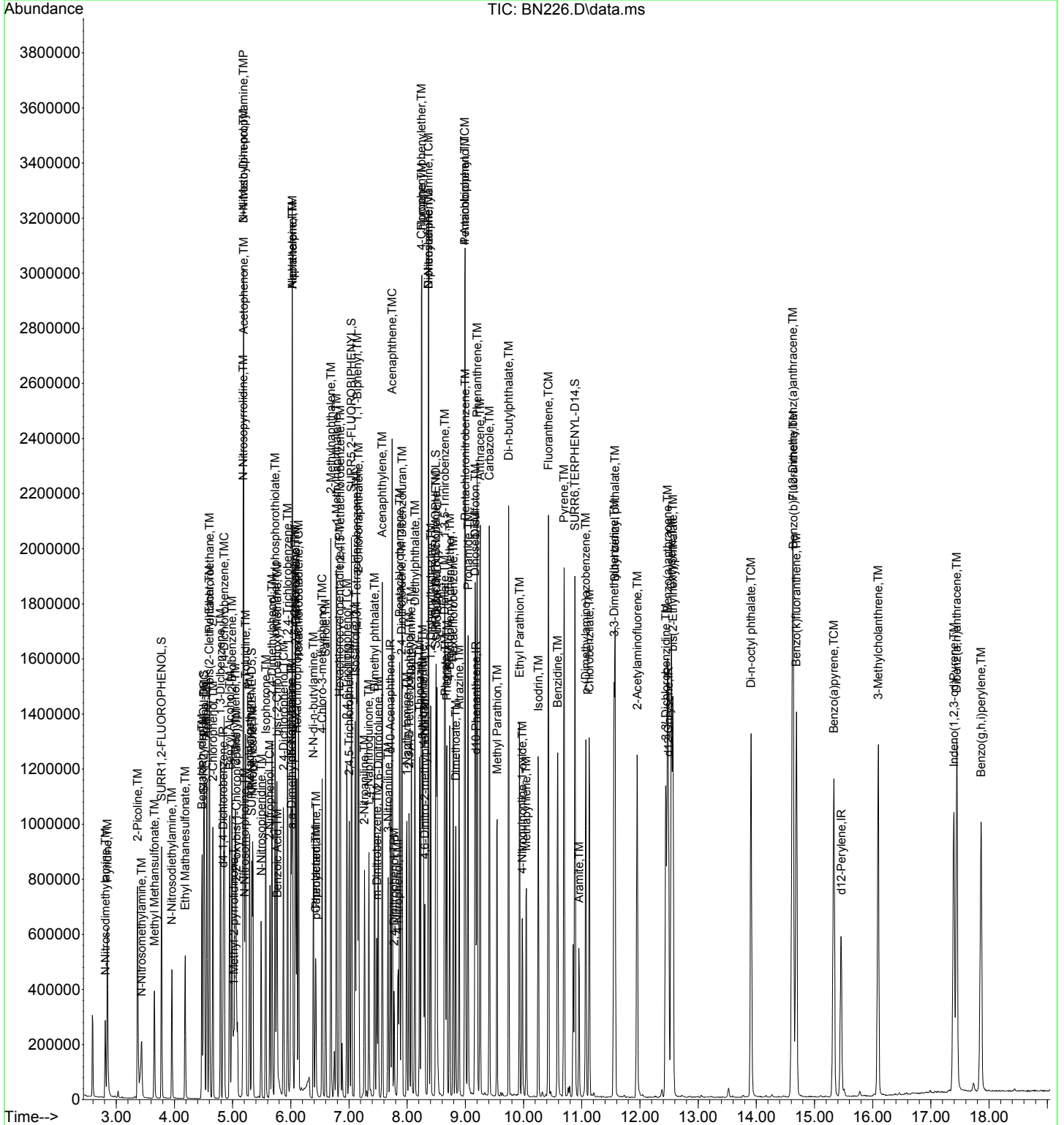
Quant Time: Mar 09 10:45:21 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.657	121	105237	80.355	ppm	90
100) Phenacetin	8.684	108	297842	80.651	ppm	94
101) 4-Bromophenyl-phenylether	8.732	248	152868	73.492	ppm	91
102) Hexachlorobenzene	8.791	284	193406	75.259	ppm	93
103) Dimethoate	8.834	87	193990	79.102	ppm	97
104) Atrazine	8.893	215	78060	83.517	ppm	97
105) Pentachlorophenol	8.989	266	120967	77.337	ppm	98
106) 4-Aminobiphenyl	8.989	169	621194	83.544	ppm	99
107) Pentachloronitrobenzene	9.000	237	74408	83.808	ppm	97
108) Pronamide	9.048	173	278037	85.371	ppm	98
109) Dinoseb	9.165	211	158668	85.091	ppm	97
110) Disulfoton	9.171	88	188678	76.820	ppm	97
111) Phenanthrene	9.203	178	822351	78.654	ppm	99
112) Anthracene	9.256	178	836654	80.621	ppm	100
113) Carbazole	9.411	167	849971	81.770	ppm	98
114) Di-n-butylphthalate	9.743	149	1118189	85.152	ppm	100
115) 4-Nitroquinonline-1-oxide	9.978	190	78925	83.121	ppm	92
116) Fluoranthene	10.428	202	952479	82.794	ppm	99
118) Methyl Parathion	9.545	109	182825	90.797	ppm	90
119) Ethyl Parathion	9.930	97	126500	88.514	ppm	99
120) Methapyrilene	10.043	58	206113	81.168	ppm	98
121) Isodrin	10.251	193	94512	83.029	ppm	98
122) Benzidine	10.588	184	625129	84.133	ppm	98
123) Pyrene	10.695	202	950262	82.601	ppm	99
125) Aramite	10.952	185	112078m	84.127	ppm	
126) p-(Dimethylamino)azobe...	11.069	120	273176	84.597	ppm	96
127) Chlorobenzilate	11.128	139	274717	81.765	ppm	89
128) Butyl benzyl phthalate	11.572	149	501652	82.092	ppm	94
129) 3,3-Dimethylbenzidine	11.556	212	607882	84.968	ppm	98
130) 2-Acetylaminofluorene	11.952	181	411344	86.733	ppm	98
131) 3,3'-Dichlorobenzidine	12.444	252	363075	84.787	ppm	98
132) Benzo(a)anthracene	12.476	228	923640	80.716	ppm	100
133) Chrysene	12.540	228	865888	80.050	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.567	149	697419	82.942	ppm	98
136) Di-n-octyl phthalate	13.910	149	1211662	85.752	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.626	256	464016	85.056	ppm	96
138) Benzo(b)Fluoranthene	14.637	252	1002319	82.441	ppm	99
139) Benzo(k)fluoranthene	14.691	252	953995	82.443	ppm	100
140) Benzo(a)pyrene	15.332	252	870279	83.853	ppm	99
141) 3-Methylcholanthrene	16.097	268	511065	86.730	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.397	276	782483	80.361	ppm	93
143) Dibenz(a,h)anthracene	17.445	278	872248	81.852	ppm	97
144) Benzo(g,h,i)perylene	17.862	276	752049	77.737	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN226.D  
Acq On : 6 Mar 2018 2:01 pm  
Operator : J.Misiurewicz  
Sample : 80 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 8 Sample Multiplier: 1

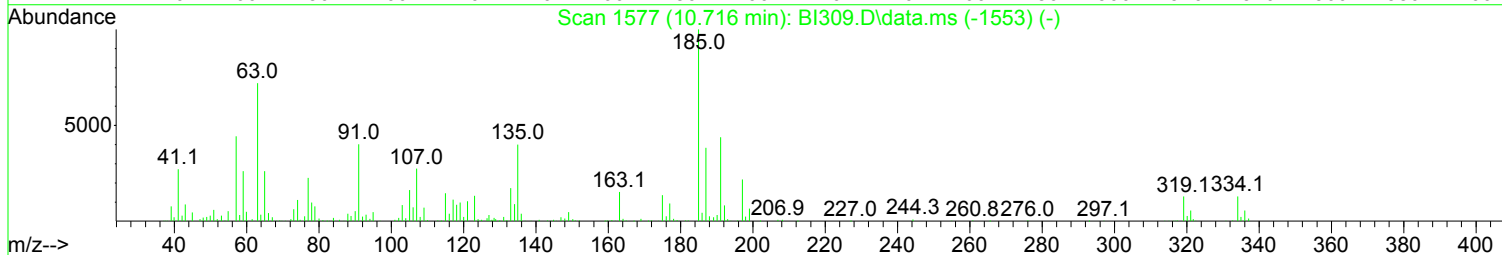
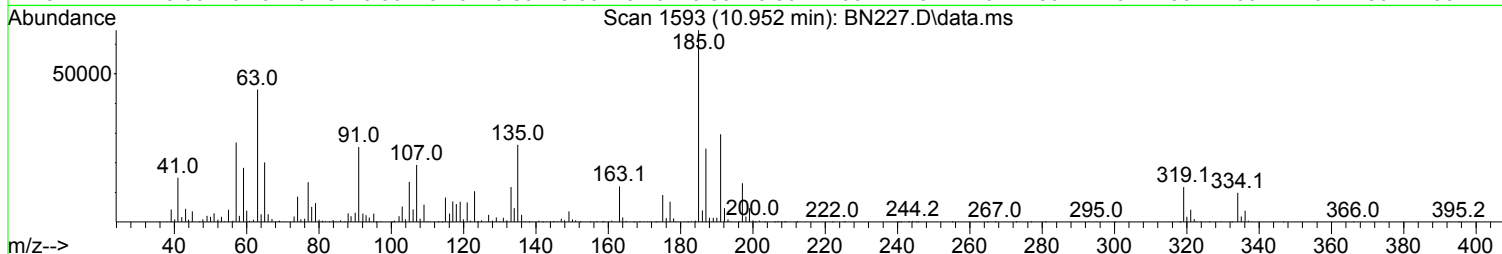
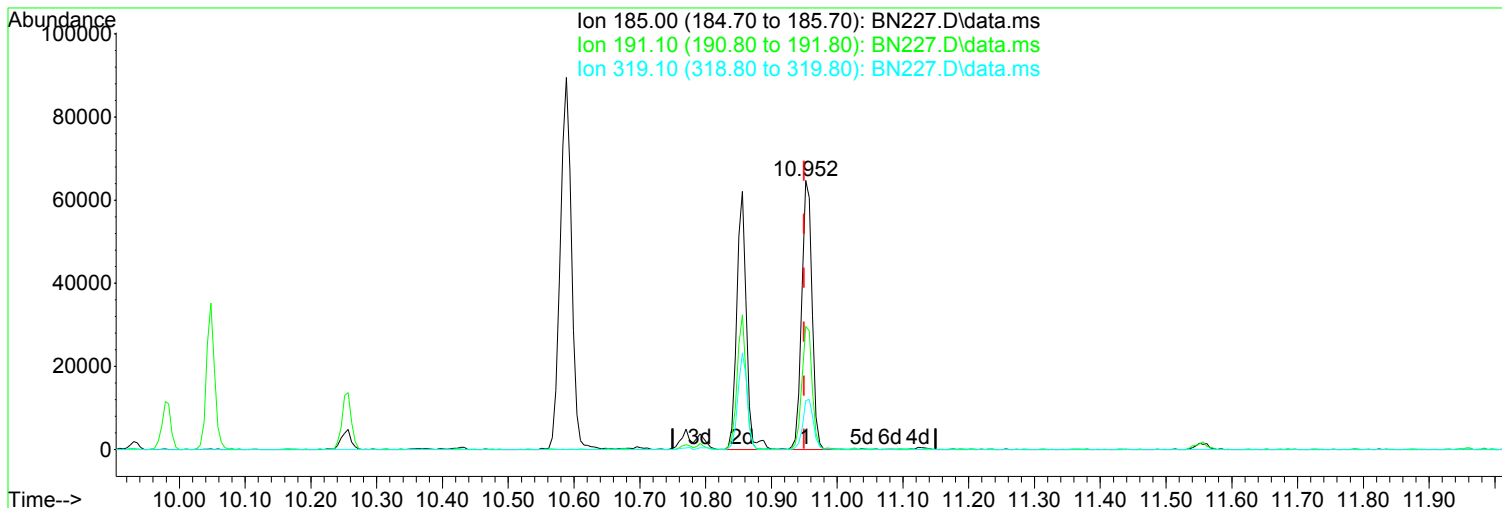
Quant Time: Mar 09 10:45:21 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN227.D  
Acq On : 6 Mar 2018 2:29 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 10:45:28 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 102.77 ppm m

After

response 135037

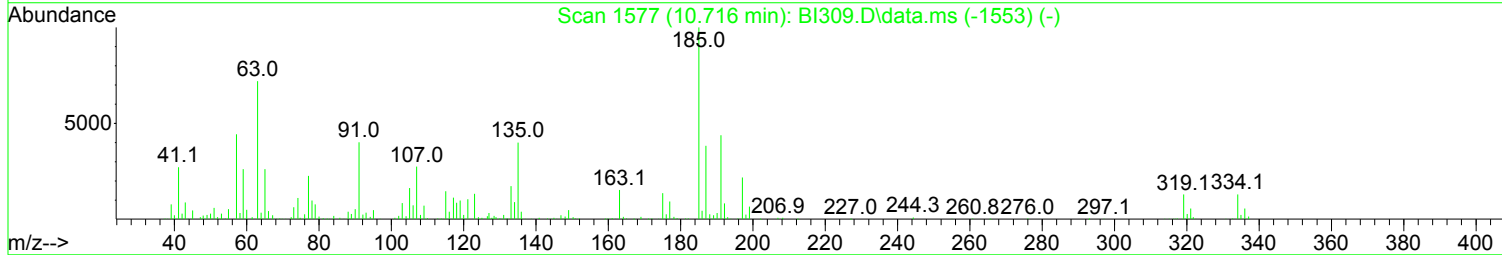
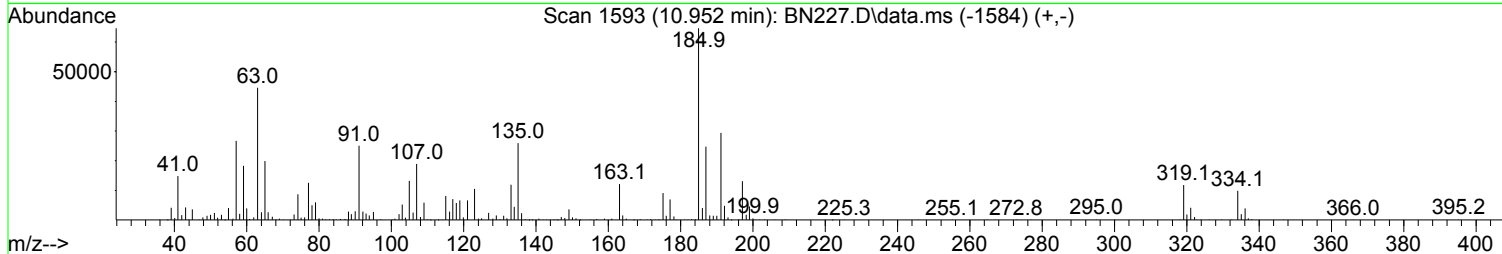
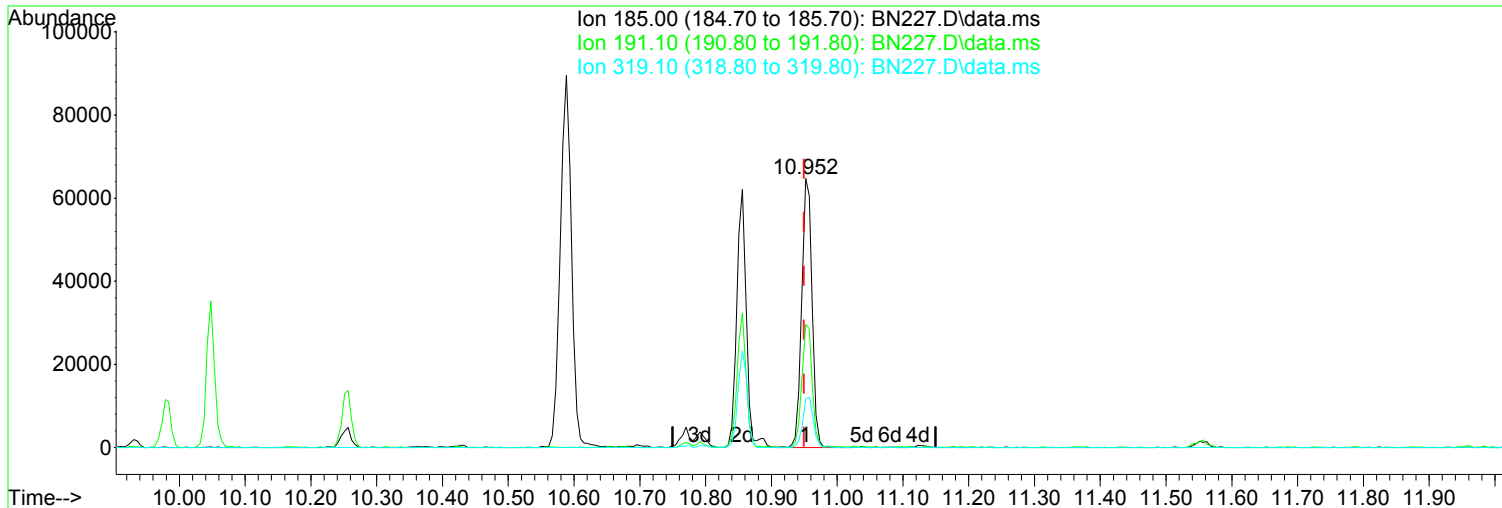
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	45.77
319.10	16.20	18.26
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN227.D  
Acq On : 6 Mar 2018 2:29 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 10:45:28 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.002) 54.74 ppm

Before

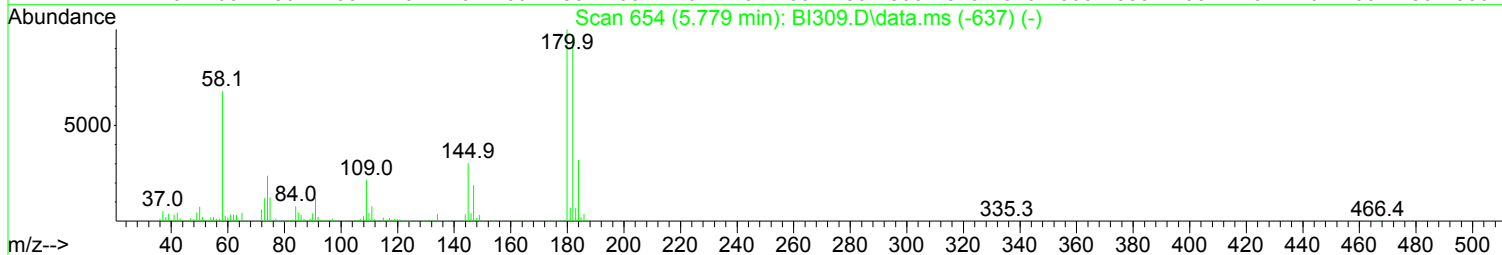
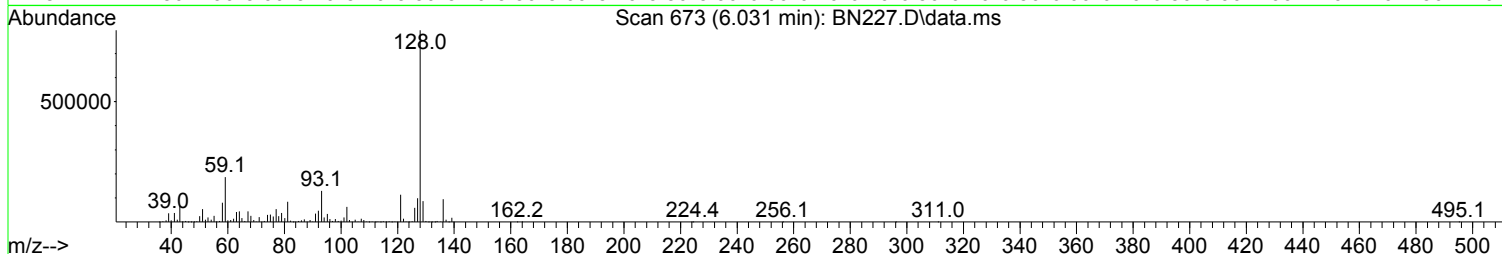
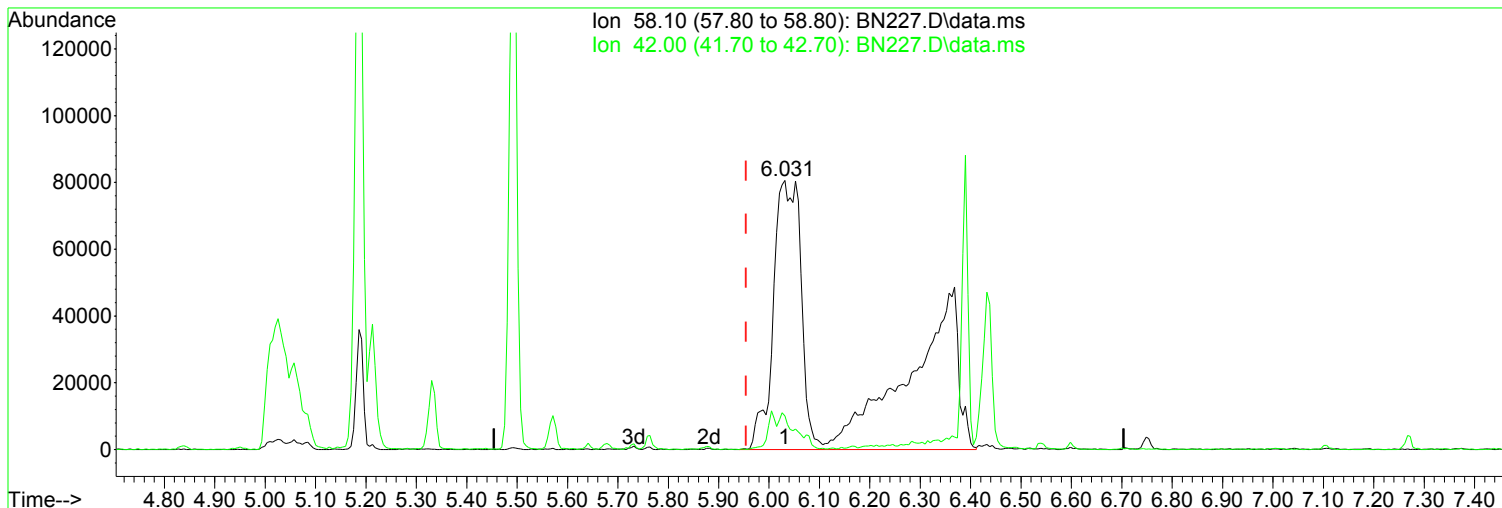
response 71923

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	45.47
319.10	16.20	18.27
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN227.D  
Acq On : 6 Mar 2018 2:29 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 10:45:28 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.031min (+ 0.077) 95.56 ppm m

After

response 637843

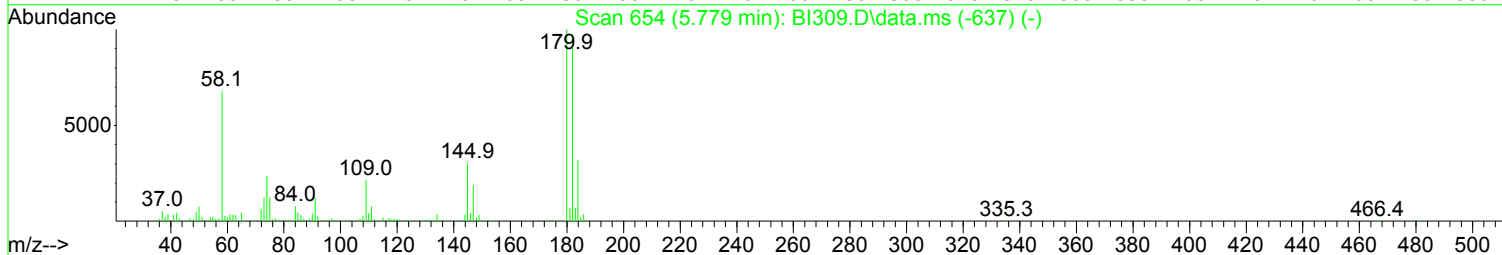
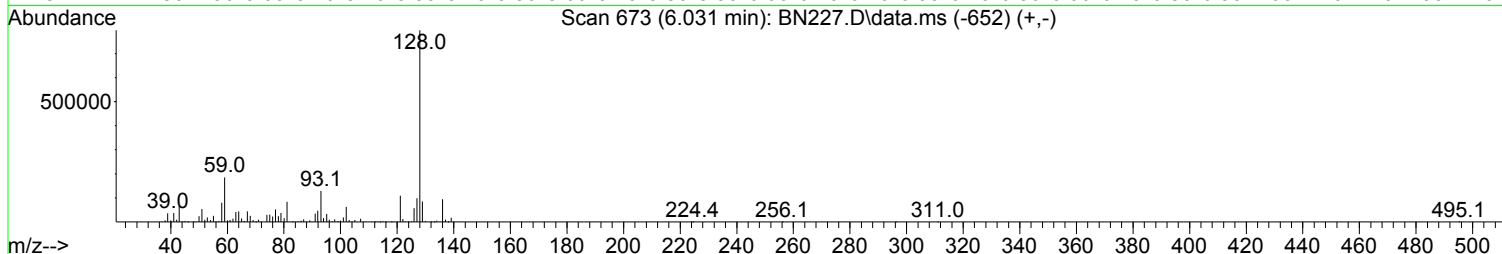
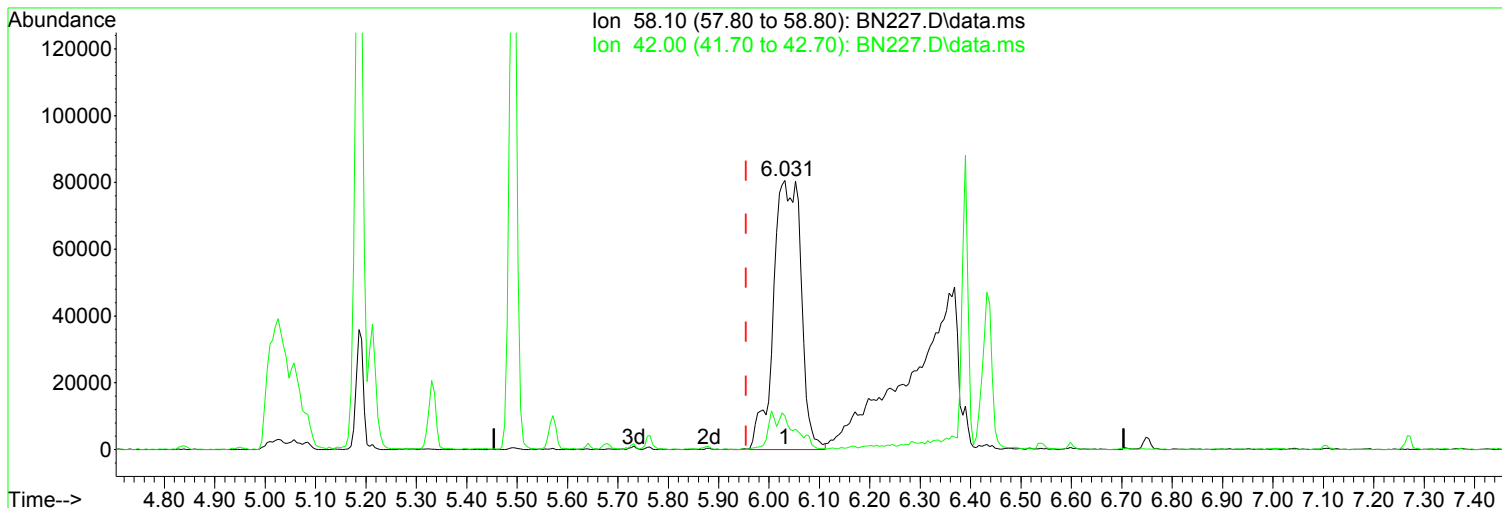
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	12.52
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN227.D  
Acq On : 6 Mar 2018 2:29 pm  
Operator : J.Misiurewicz  
Sample : 100 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 10:45:28 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.031min (+ 0.077) 45.95 ppm

Before

response 306699

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	12.47
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN227.D  
 Acq On : 6 Mar 2018 2:29 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 10:45:28 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.838	152	105588	40.00	ppm	0.00	
33) d8-Naphthalene	6.004	136	419779	40.00	ppm	0.00	
57) d10-Acenaphthene	7.711	164	219577	40.00	ppm	0.00	
91) d10-Phenanthrene	9.182	188	367763	40.00	ppm	0.00	
117) d12-Chrysene	12.492	240	376959	40.00	ppm	0.00	
135) d12-Perylene	15.456	264	387631	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.779	112	351322	99.84	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	49.92%	
12) SURR2,PHENOL-D6	4.502	99	423970	99.44	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	49.72%	
34) SURR4,NITROBENZENE-D5	5.331	82	345770	99.38	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	99.38%	
63) SURR5,2-FLUOROBIPHENYL	7.042	172	753679	99.58	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	99.58%	
88) SURR3,2,4,6-TRIBROMOPH...	8.492	330	131982	104.46	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	52.23%	
124) SURR6,TERPHENYL-D14	10.882	244	844699	99.95	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	99.95%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.843	79	343535	102.729	ppm		98
3) N-Nitrosodimethylamine	2.811	74	171888	103.703	ppm		96
4) 2-Picoline	3.368	93	350834	100.271	ppm		99
5) N-Nitrosomethylamine	3.432	42	138042	90.415	ppm		97
6) Methyl Methansulfonate	3.656	80	181643	99.036	ppm		99
8) N-Nitrosodiethylamine	3.956	102	151233	100.366	ppm		98
9) Ethyl Mathanesulfonate	4.186	79	241724	97.096	ppm		99
10) Benzaldehyde	4.475	106	215635	95.352	ppm		98
11) Aniline	4.560	93	593614	98.248	ppm		96
13) Phenol	4.518	94	417403	98.634	ppm		98
14) bis(2-Clethyl)Ether	4.598	93	292919	95.227	ppm		99
15) Pentachloroethane	4.603	117	126005	94.254	ppm		97
16) 2-Chlorophenol	4.662	128	362979	99.467	ppm		95
17) 1,3-Diclbzene	4.790	146	380114	97.146	ppm		98
18) 1,4-Dichlorobenzene	4.855	146	389597	95.979	ppm		99
19) 1,2-Diclbzene	4.988	146	373893	97.239	ppm		98
20) Benzyl Alcohol	4.951	79	269169	100.755	ppm		98
21) 1-Methyl-2-pyrrolidinone	5.026	99	212303	99.089	ppm		97
22) 2,2'-oxybis(1-Chloropr...	5.063	45	294477	93.772	ppm		92
23) 2-Methylphenol	5.047	108	308361	97.380	ppm		99
24) 3+4-Methylphenol	5.191	108	327561	97.594	ppm		85
25) Acetophenone	5.191	105	462855	97.060	ppm		91
26) N-Nitroso-Di-n-propyla...	5.186	70	228919	96.925	ppm		95
27) N-Nitrosopyrrolidine	5.186	100	174520	96.652	ppm		81
28) N-Nitrosomorpholine	5.213	56	172676	97.314	ppm		95
29) o-Toluidine	5.224	106	520509	96.190	ppm		93
30) Hexachloroethane	5.293	117	153176	97.646	ppm		92
31) o,o,o-Triethylphosphor...	5.732	198	159133	96.451	ppm		90
32) Alpha-terpinol	6.026	121	124091	97.347	ppm		90
35) Nitrobenzene	5.352	77	347102	98.542	ppm		90
36) N-Nitrosopiperidine	5.491	42	182823	96.455	ppm		98
37) Isophorone	5.571	82	608768	98.183	ppm		99
38) 2-Nitrophenol	5.641	139	198232	103.803	ppm		99

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN227.D  
 Acq On : 6 Mar 2018 2:29 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 10:45:28 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.780	105	266370	107.844	ppm	97
40) 2,4-Dimethylphenol	5.678	107	342123	98.452	ppm	94
41) bis(-2-Chloroethoxy)Me...	5.764	93	371779	97.580	ppm	100
42) 2,4-Dichlorophenol	5.876	162	285478	100.698	ppm	98
43) a,a-Dimethylphenethyla...	6.031	58	637843m	95.558	ppm	
44) 1,2,4-Trichlorobenzene	5.946	180	318766	97.368	ppm	99
45) Naphthalene	6.026	128	1006780	96.176	ppm	99
46) 4-Chloroaniline	6.079	127	413174	96.907	ppm	98
47) 2,6-Dichlorophenol	6.085	162	303487	99.787	ppm	99
48) Hexachlorobutadiene	6.133	225	180458	96.699	ppm	96
49) Hexachloropropene	6.106	213	228981	99.982	ppm	98
50) 4-Chloro-3-methylphenol	6.539	107	285031	99.636	ppm	100
51) N-N-di-n-butylamine	6.390	84	220136	91.866	ppm	91
52) Caprolactam	6.438	113	101319	95.203	ppm	98
53) p-Phenylenediamine	6.432	80	12017	99.398	ppm	82
54) Safrrole	6.598	162	250924	97.964	ppm	97
55) 2-Methylnaphthalene	6.689	142	672636	97.264	ppm	99
56) 1-Methylnaphthalene	6.785	142	629729	96.486	ppm	99
58) Hexachlorocyclopentadiene	6.839	237	204725	106.560	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.850	216	324260	99.256	ppm	99
60) 1,2,3,4-Tetrachloroben...	7.128	216	315399	100.733	ppm	96
61) 2,4,6-Trichlorophenol	6.962	196	206675	104.443	ppm	100
62) 2,4,5-Trichlorophenol	7.005	196	208133	100.934	ppm	96
64) Isosafrole	7.106	104	125512	101.472	ppm	98
65) 1,1'-Biphenyl	7.144	154	828289	99.707	ppm	99
66) 2-Chloronaphthalene	7.165	162	637396	99.672	ppm	99
67) 2-Nitroaniline	7.267	65	162850	102.607	ppm	97
68) 1,4-Naphthoquinone	7.342	158	204911	101.981	ppm	98
69) m-Dinitrobenzene	7.481	168	115985	103.245	ppm	83
70) Acenaphthylene	7.572	152	1013066	100.409	ppm	99
71) Dimethyl phthalate	7.443	163	711798	95.989	ppm	99
72) 2,6-Dinitrotoluene	7.502	165	166146	101.994	ppm	91
73) Acenaphthene	7.743	153	684079	99.454	ppm	99
74) 3-Nitroaniline	7.673	138	191286	104.326	ppm	97
75) 2,4-Dinitrophenol	7.780	184	83390	102.403	ppm	94
76) Dibenzofuran	7.914	168	883633	98.339	ppm	99
77) 2,4-Dinitrotoluene	7.903	165	234350	108.484	ppm	95
78) 4-Nitrophenol	7.844	65	128265	111.025	ppm	85
79) Pentachlorobenzene	7.871	250	288610	98.836	ppm	99
80) 1-Naphthylamine	7.994	143	433462	99.512	ppm	99
81) 2-Naphthylamine	8.074	143	579799	98.379	ppm	99
82) 2,3,4,6-Tetrachlorophenol	8.037	232	164803	105.718	ppm	96
83) Fluorene	8.251	166	689686	95.567	ppm	98
84) 4-Chlorophenyl-phenyle...	8.246	204	308581	95.227	ppm	98
85) Diethylphthalate	8.133	149	743284	99.562	ppm	100
86) 4-Nitroaniline	8.283	138	210709	100.772	ppm	99
87) 5-Nitro-o-toluidine	8.272	152	217771	104.005	ppm	95
89) Sulfotepp	8.518	322	124122	105.416	ppm	94
90) Octachlorocyclopentene	8.497	307	131457	104.415	ppm	98
92) Thionazin	8.219	107	119131	95.657	ppm	98
93) 4,6-Dinitro-2-methylph...	8.304	198	138957	103.824	ppm	95
94) Diphenylamine	8.369	169	1081474	189.038	ppm	99
95) 1,2 Diphenylhydrazine	8.406	77	629680	89.768	ppm	96
96) N-Nitrosodiphenylamine	8.369	169	1081474	189.040	ppm	99
97) 1,3,5-Trinitrobenzene	8.647	213	77864	105.283	ppm	# 38
98) Diallate	8.647	86	233457	93.587	ppm	99

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN227.D  
 Acq On : 6 Mar 2018 2:29 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

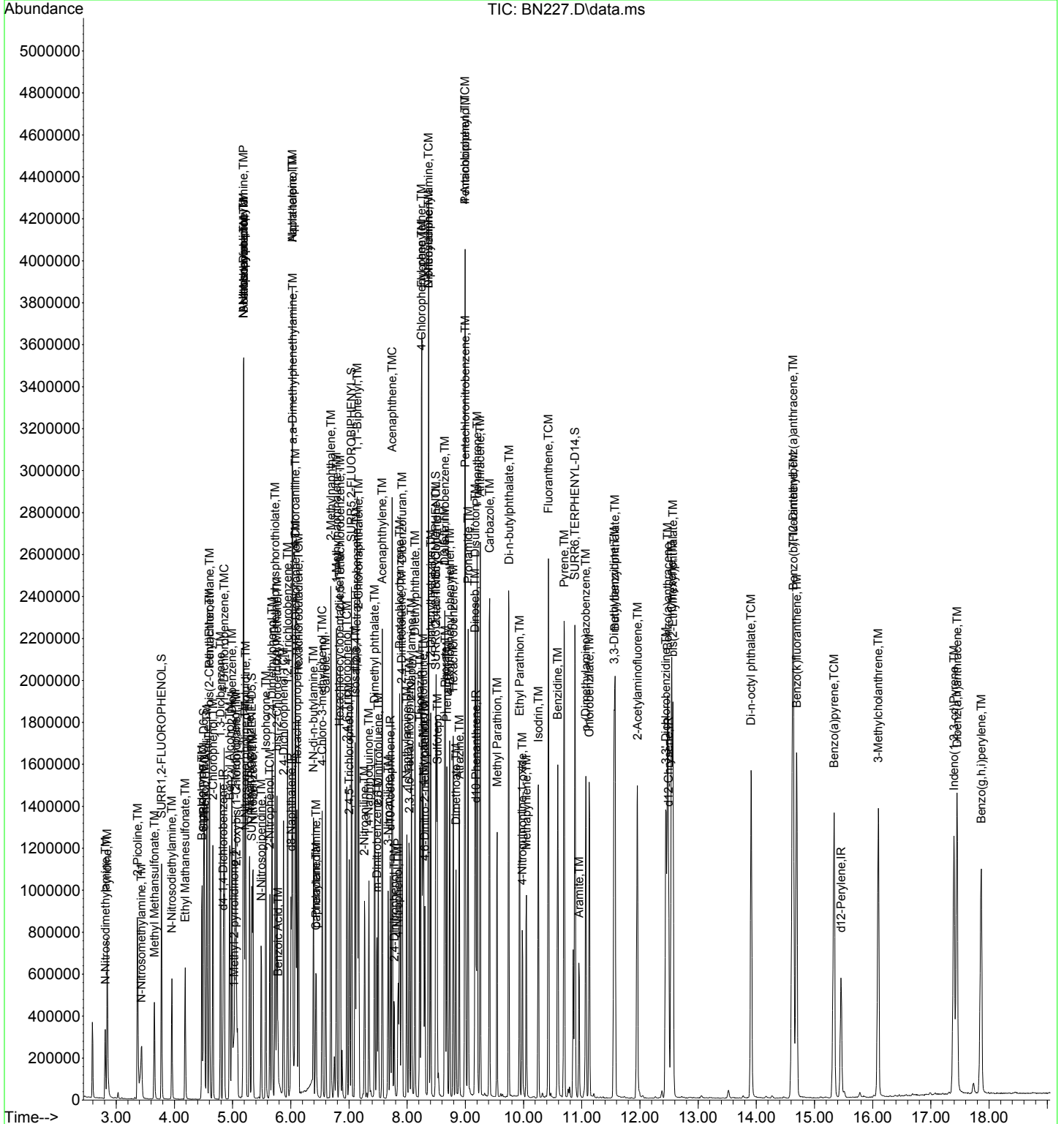
Quant Time: Mar 09 10:45:28 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.657	121	127291	98.004	ppm	98
100) Phenacetin	8.684	108	363564	99.268	ppm	94
101) 4-Bromophenyl-phenylether	8.732	248	185605	89.973	ppm	98
102) Hexachlorobenzene	8.791	284	238934	93.749	ppm	96
103) Dimethoate	8.839	87	226313	93.050	ppm	97
104) Atrazine	8.898	215	94854	102.330	ppm	97
105) Pentachlorophenol	8.994	266	161402	104.047	ppm	98
106) 4-Aminobiphenyl	8.994	169	756130	102.537	ppm	99
107) Pentachloronitrobenzene	9.000	237	95024	107.920	ppm	94
108) Pronamide	9.048	173	339935	105.245	ppm	98
109) Dinoseb	9.166	211	196559	106.289	ppm	98
110) Disulfoton	9.171	88	230644	94.688	ppm	96
111) Phenanthrene	9.203	178	1008970	97.307	ppm	99
112) Anthracene	9.256	178	1026342	99.723	ppm	99
113) Carbazole	9.417	167	1045974	101.464	ppm	98
114) Di-n-butylphthalate	9.749	149	1336913	102.655	ppm	99
115) 4-Nitroquinonline-1-oxide	9.979	190	99316	105.466	ppm	96
116) Fluoranthene	10.428	202	1145815	100.429	ppm	99
118) Methyl Parathion	9.545	109	212650	107.083	ppm	95
119) Ethyl Parathion	9.930	97	148499	105.357	ppm	96
120) Methapyrilene	10.048	58	251400	100.383	ppm	97
121) Isodrin	10.251	193	115770	103.123	ppm	98
122) Benzidine	10.588	184	758524	103.511	ppm	99
123) Pyrene	10.701	202	1157206	101.993	ppm	99
125) Aramite	10.952	185	135037m	102.775	ppm	
126) p-(Dimethylamino)azobe...	11.070	120	330667	103.830	ppm	95
127) Chlorobenzilate	11.128	139	334133	100.836	ppm	89
128) Butyl benzyl phthalate	11.572	149	610439	101.288	ppm	95
129) 3,3-Dimethylbenzidine	11.556	212	738656	104.688	ppm	98
130) 2-Acetylaminofluorene	11.958	181	501179	107.149	ppm	99
131) 3,3'-Dichlorobenzidine	12.444	252	444797	105.320	ppm	99
132) Benzo(a)anthracene	12.476	228	1139279	100.949	ppm	99
133) Chrysene	12.546	228	1057195	99.099	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.567	149	844020	101.777	ppm	99
136) Di-n-octyl phthalate	13.910	149	1450141	106.090	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.632	256	556602	105.467	ppm	99
138) Benzo(b)Fluoranthene	14.637	252	1224757	104.133	ppm	99
139) Benzo(k)fluoranthene	14.696	252	1132563	101.175	ppm	99
140) Benzo(a)pyrene	15.338	252	1048528	104.433	ppm	98
141) 3-Methylcholanthrene	16.097	268	604324	106.014	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.397	276	940791	99.877	ppm	92
143) Dibenz(a,h)anthracene	17.451	278	1028615	99.779	ppm	98
144) Benzo(g,h,i)perylene	17.868	276	861385	92.041	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN227.D  
 Acq On : 6 Mar 2018 2:29 pm  
 Operator : J.Misiurewicz  
 Sample : 100 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 9 Sample Multiplier: 1

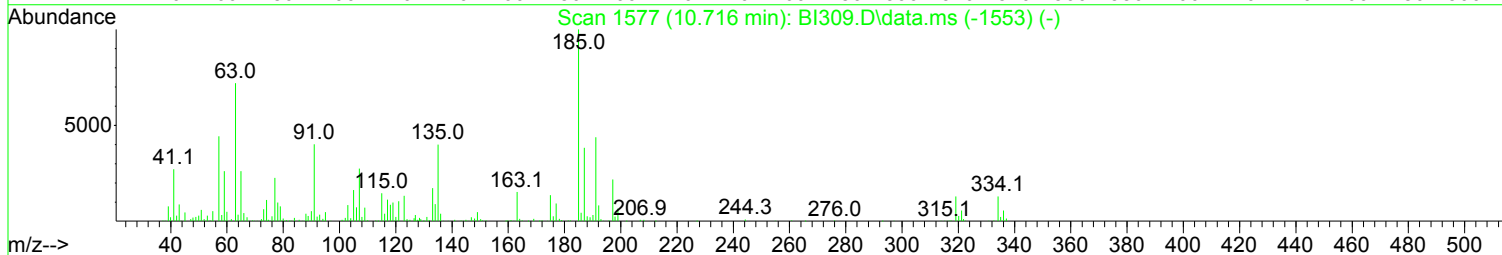
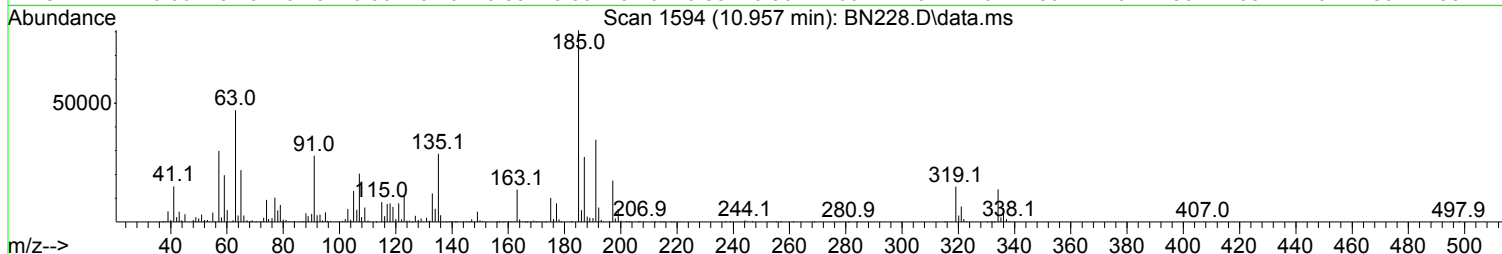
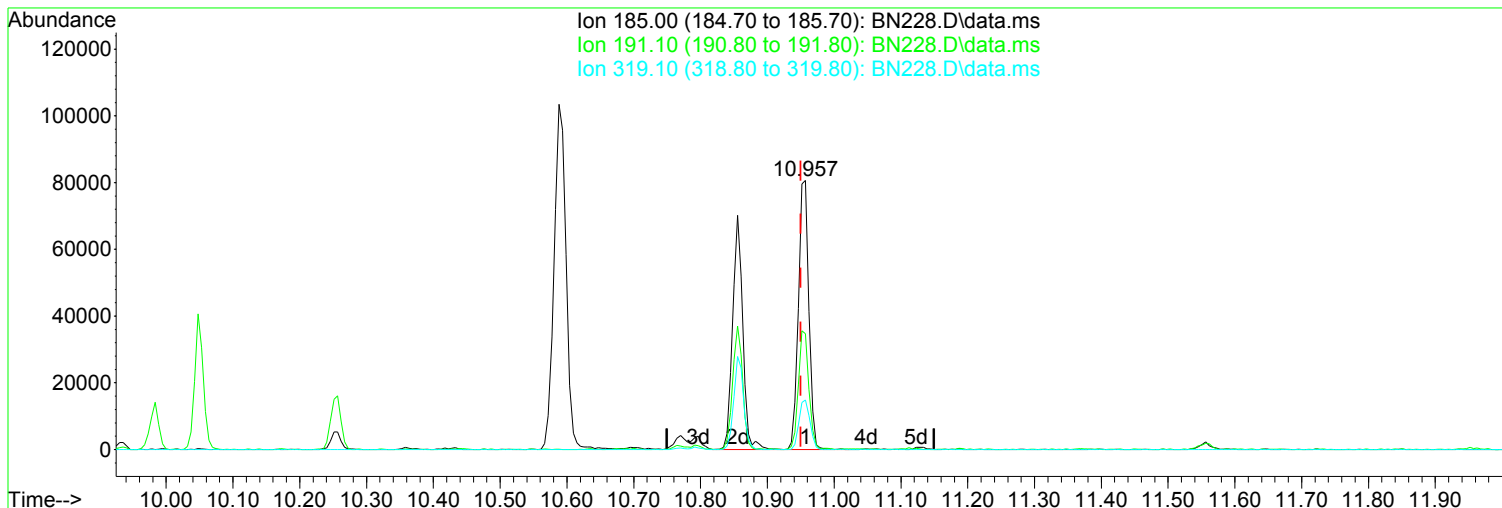
Quant Time: Mar 09 10:45:28 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN228.D  
Acq On : 6 Mar 2018 2:58 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 10:45:35 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.957min (+ 0.007) 126.10 ppm m

After

response 162539

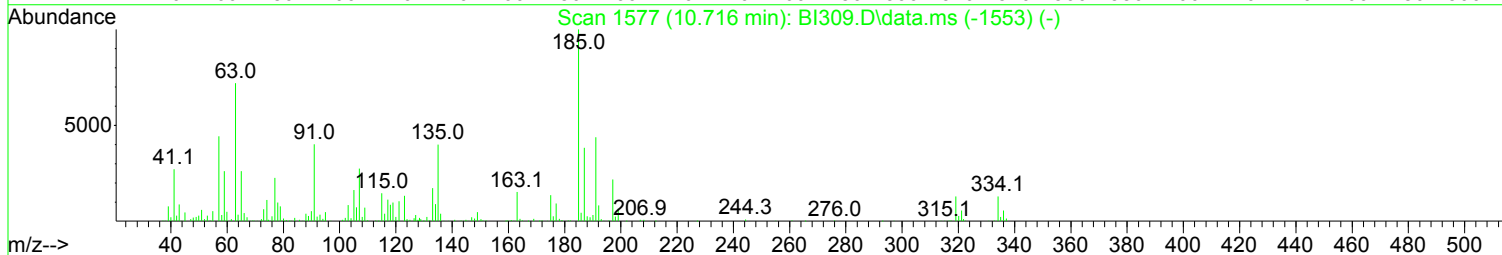
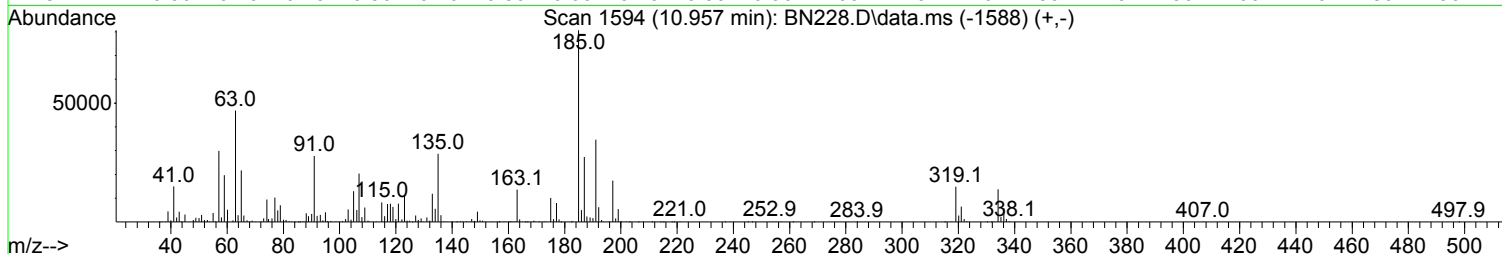
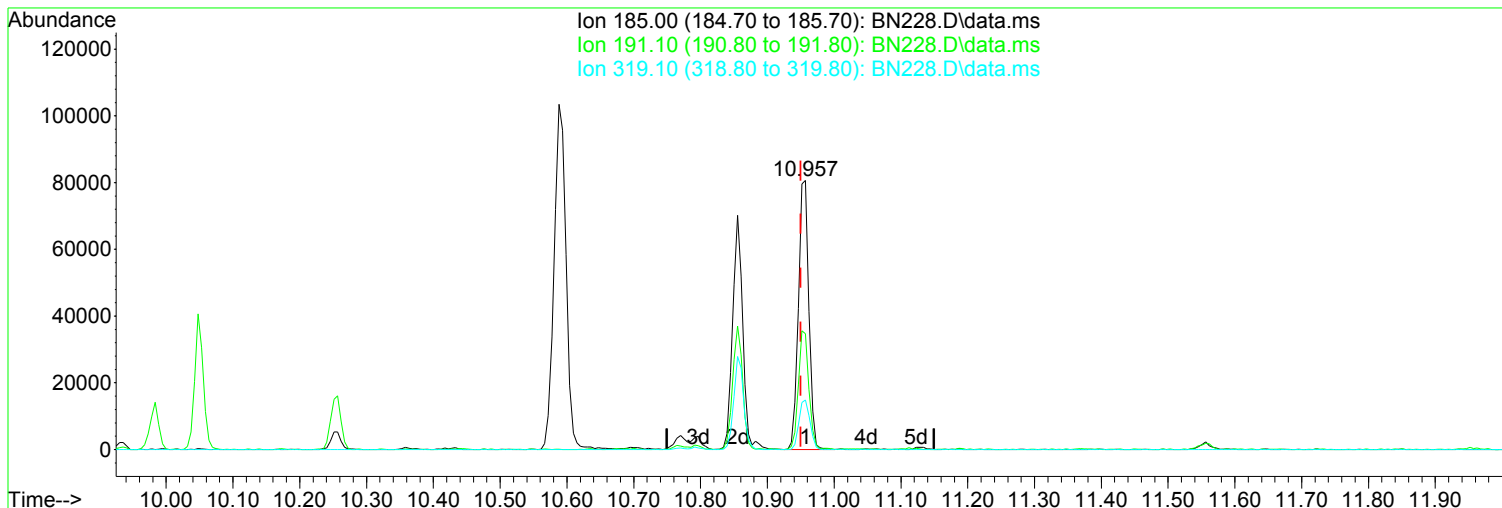
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	43.04
319.10	16.20	18.48
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN228.D  
 Acq On : 6 Mar 2018 2:58 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 10:45:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

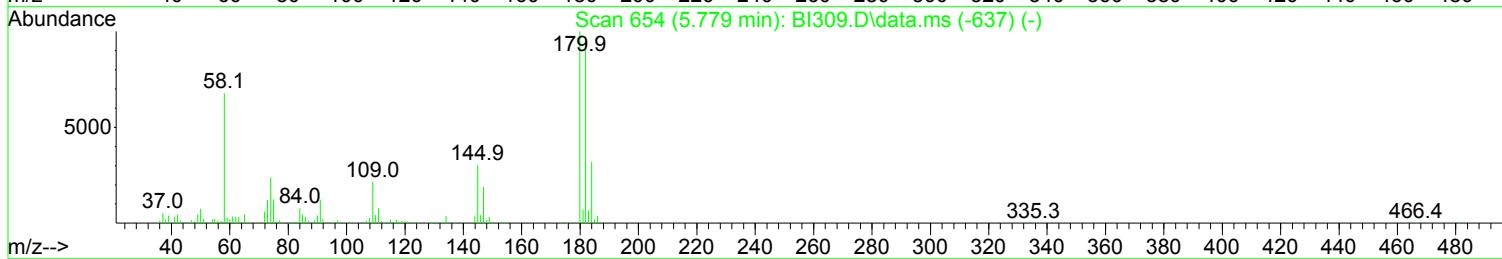
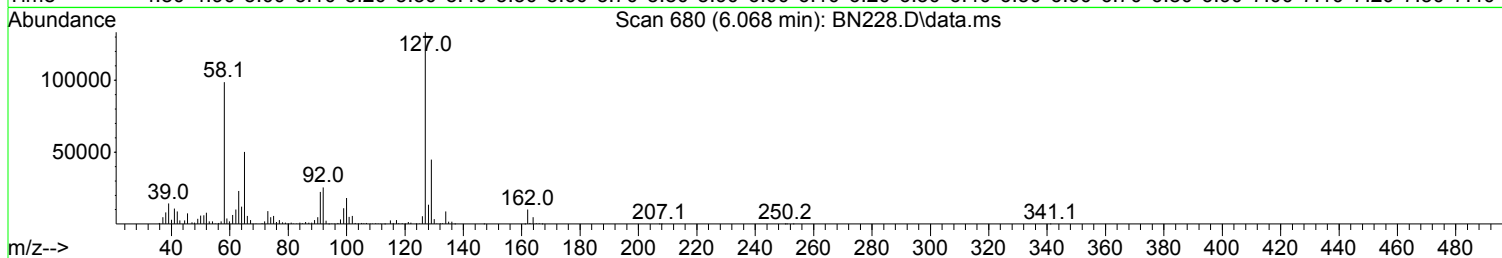
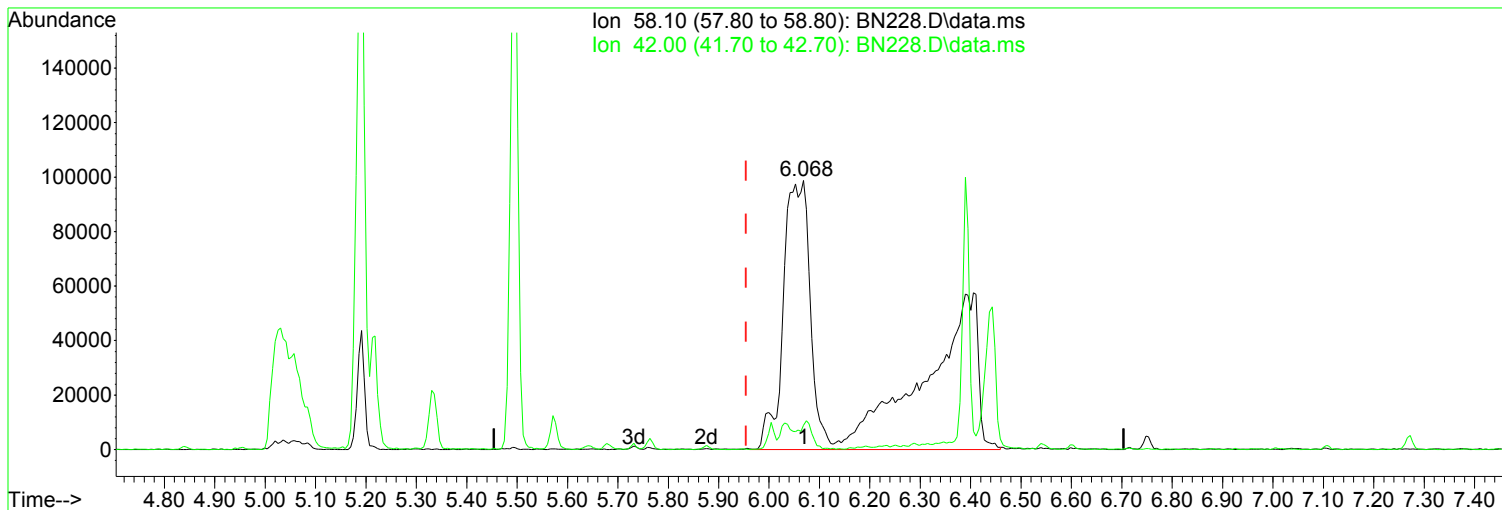


TIC: BN228.D\data.ms

(125) Aramite (TM)			Manual Integration:
10.957min (+ 0.007)	68.32 ppm		Before
response	88059		
Ion	Exp%	Act%	03/09/18
185.00	100.00	100.00	
191.10	44.80	42.96	
319.10	16.20	18.48	
0.00	0.00	0.00	

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN228.D  
 Acq On : 6 Mar 2018 2:58 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 10:45:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.068min (+ 0.114) 123.38 ppm m

After

response 786292

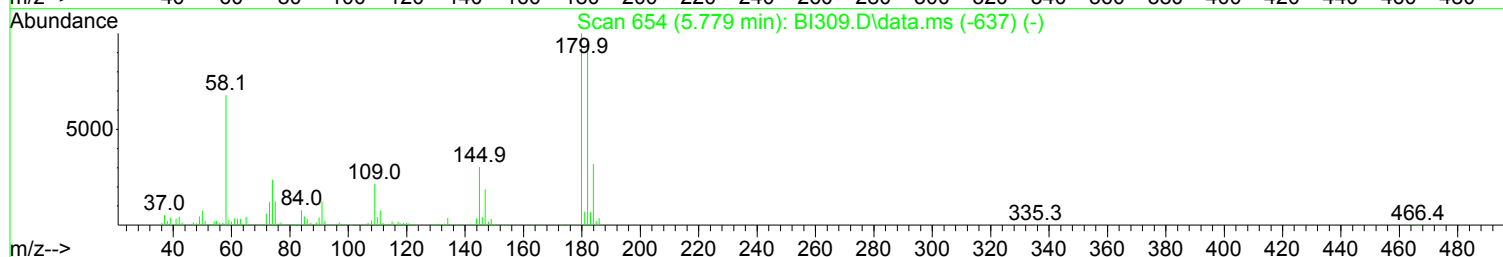
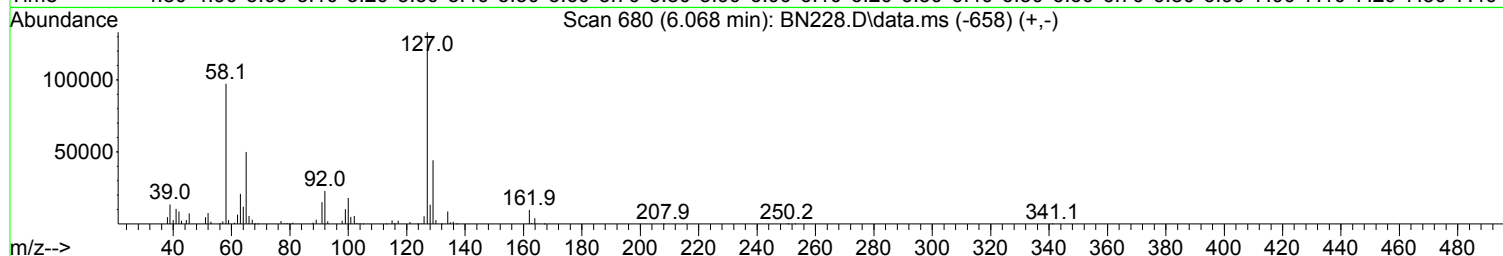
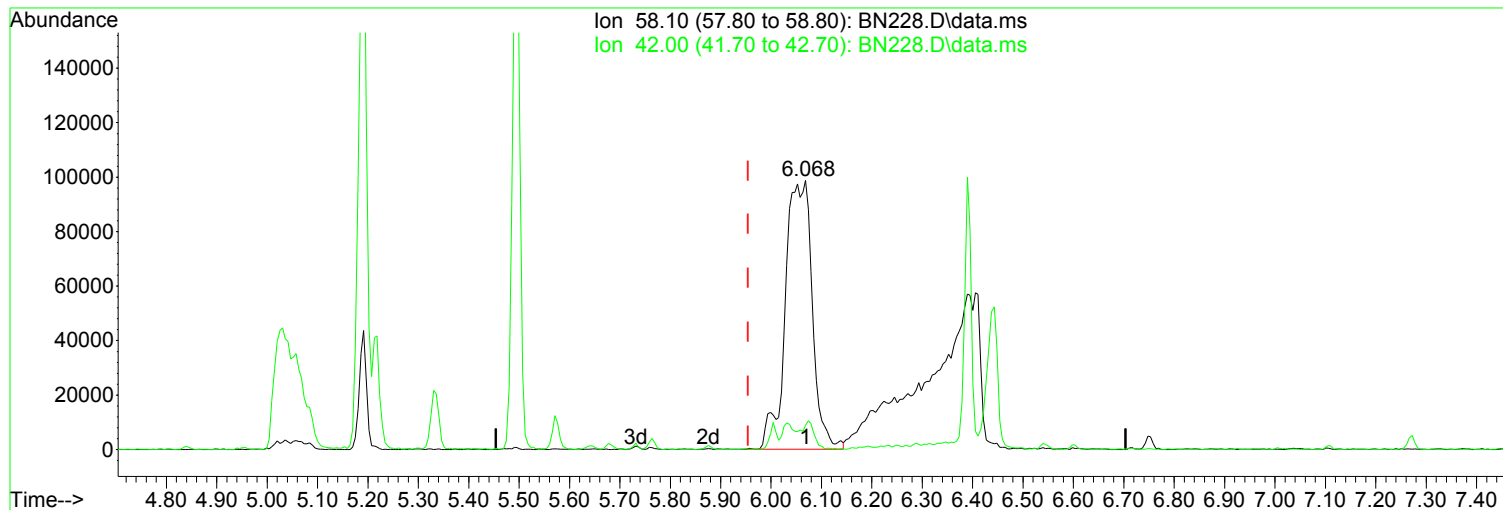
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	9.00
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN228.D  
Acq On : 6 Mar 2018 2:58 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 10:45:35 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.068min (+ 0.114) 57.45 ppm

Before

response 366116

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	8.96
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN228.D  
 Acq On : 6 Mar 2018 2:58 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 10:45:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	97827	40.00	ppm	0.00
33) d8-Naphthalene	6.004	136	400778	40.00	ppm	0.00
57) d10-Acenaphthene	7.710	164	212249	40.00	ppm	0.00
91) d10-Phenanthrene	9.181	188	360117	40.00	ppm	0.00
117) d12-Chrysene	12.498	240	369814	40.00	ppm	0.00
135) d12-Perylene	15.461	264	387680	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.779	112	419557	128.69	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	64.34%
12) SURR2,PHENOL-D6	4.507	99	499480	126.45	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	63.22%
34) SURR4,NITROBENZENE-D5	5.336	82	410797	123.66	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	123.66%#
63) SURR5,2-FLUOROBIPHENYL	7.047	172	890775	121.76	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	121.76%#
88) SURR3,2,4,6-TRIBROMOPH...	8.491	330	161872	132.55	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	66.28%
124) SURR6,TERPHENYL-D14	10.888	244	1021642	123.22	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	123.22%

Target Compounds						Qvalue
2) Pyridine	2.849	79	404335	130.502	ppm	95
3) N-Nitrosodimethylamine	2.811	74	206016	134.154	ppm	98
4) 2-Picoline	3.367	93	412153	127.142	ppm	98
5) N-Nitrosomethylamine	3.437	42	171269	121.078	ppm	98
6) Methyl Methansulfonate	3.656	80	210652	123.964	ppm	99
8) N-Nitrosodiethylamine	3.961	102	175486	125.701	ppm	90
9) Ethyl Mathanesulfonate	4.186	79	287182	124.507	ppm	98
10) Benzaldehyde	4.475	106	250223	119.424	ppm	99
11) Aniline	4.560	93	703268	125.631	ppm	97
13) Phenol	4.517	94	492274	125.555	ppm	99
14) bis(2-Clethyl)Ether	4.603	93	345681	121.295	ppm	96
15) Pentachloroethane	4.603	117	148798	120.133	ppm	100
16) 2-Chlorophenol	4.662	128	426238	126.069	ppm	96
17) 1,3-Diclbzene	4.795	146	452147	124.723	ppm	98
18) 1,4-Dichlorobenzene	4.854	146	457765	121.719	ppm	99
19) 1,2-Diclbzene	4.988	146	429993	120.701	ppm	96
20) Benzyl Alcohol	4.951	79	317991	128.473	ppm	98
21) 1-Methyl-2-pyrrolidinone	5.031	99	249781	125.830	ppm	98
22) 2,2'-oxybis(1-Chloropr...	5.063	45	353287	121.425	ppm	# 83
23) 2-Methylphenol	5.052	108	366528	124.931	ppm	97
24) 3+4-Methylphenol	5.191	108	383359	123.280	ppm	95
25) Acetophenone	5.191	105	542743	122.842	ppm	88
26) N-Nitroso-Di-n-propyla...	5.191	70	264630	120.934	ppm	97
27) N-Nitrosopyrrolidine	5.191	100	207300	123.914	ppm	75
28) N-Nitrosomorpholine	5.213	56	202214	123.001	ppm	92
29) o-Toluidine	5.223	106	612298	122.129	ppm	82
30) Hexachloroethane	5.293	117	180307	124.061	ppm	94
31) o,o,o-Triethylphosphor...	5.731	198	190040	124.322	ppm	97
32) Alpha-terpinol	6.031	121	146091	123.698	ppm	90
35) Nitrobenzene	5.352	77	412569	122.681	ppm	91
36) N-Nitrosopiperidine	5.496	42	214500	118.532	ppm	93
37) Isophorone	5.571	82	713894	120.597	ppm	99
38) 2-Nitrophenol	5.646	139	234010	128.348	ppm	96

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN228.D  
 Acq On : 6 Mar 2018 2:58 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 10:45:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.790	105	321507	136.338	ppm	99
40) 2,4-Dimethylphenol	5.678	107	408789	123.214	ppm	94
41) bis(-2-Chloroethoxy)Me...	5.764	93	439134	120.723	ppm	97
42) 2,4-Dichlorophenol	5.876	162	339289	125.353	ppm	99
43) a,a-Dimethylphenethyla...	6.068	58	786292m	123.383	ppm	
44) 1,2,4-Trichlorobenzene	5.945	180	378402	121.064	ppm	96
45) Naphthalene	6.026	128	1167427	116.810	ppm	99
46) 4-Chloroaniline	6.079	127	491643	120.779	ppm	98
47) 2,6-Dichlorophenol	6.085	162	355784	122.528	ppm	94
48) Hexachlorobutadiene	6.133	225	213460	119.806	ppm	98
49) Hexachloropropene	6.106	213	271420	124.131	ppm	97
50) 4-Chloro-3-methylphenol	6.545	107	337478	123.563	ppm	98
51) N-N-di-n-butylamine	6.389	84	252805	110.501	ppm	96
52) Caprolactam	6.443	113	125877	123.887	ppm	93
53) p-Phenylenediamine	6.438	80	15230	131.947	ppm	82
54) Safrole	6.603	162	295360	120.780	ppm	99
55) 2-Methylnaphthalene	6.694	142	798326	120.912	ppm	98
56) 1-Methylnaphthalene	6.791	142	743446	119.310	ppm	99
58) Hexachlorocyclopentadiene	6.839	237	236998	127.617	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.855	216	385981	122.228	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.133	216	374818	123.844	ppm	99
61) 2,4,6-Trichlorophenol	6.967	196	244724	127.940	ppm	99
62) 2,4,5-Trichlorophenol	7.010	196	248639	124.741	ppm	97
64) Isosafrole	7.106	104	147213	123.125	ppm	99
65) 1,1'-Biphenyl	7.144	154	967206	120.449	ppm	99
66) 2-Chloronaphthalene	7.170	162	758197	122.655	ppm	96
67) 2-Nitroaniline	7.272	65	196951	128.377	ppm	94
68) 1,4-Naphthoquinone	7.341	158	245050	126.168	ppm	99
69) m-Dinitrobenzene	7.481	168	142348	131.087	ppm	80
70) Acenaphthylene	7.577	152	1203324	123.385	ppm	100
71) Dimethyl phthalate	7.443	163	854887	119.265	ppm	98
72) 2,6-Dinitrotoluene	7.507	165	201403	127.906	ppm	89
73) Acenaphthene	7.743	153	801962	120.617	ppm	96
74) 3-Nitroaniline	7.678	138	228322	128.825	ppm	93
75) 2,4-Dinitrophenol	7.780	184	102594	122.465	ppm	98
76) Dibenzofuran	7.914	168	1034906	119.151	ppm	100
77) 2,4-Dinitrotoluene	7.903	165	273843	131.143	ppm	97
78) 4-Nitrophenol	7.850	65	149115	133.529	ppm	81
79) Pentachlorobenzene	7.871	250	340013	120.460	ppm	100
80) 1-Naphthylamine	7.994	143	516201	122.599	ppm	100
81) 2-Naphthylamine	8.074	143	699967	122.870	ppm	97
82) 2,3,4,6-Tetrachlorophenol	8.037	232	199219	132.207	ppm	95
83) Fluorene	8.251	166	816542	117.052	ppm	98
84) 4-Chlorophenyl-phenyle...	8.245	204	359007	114.613	ppm	98
85) Diethylphthalate	8.138	149	900708	124.814	ppm	98
86) 4-Nitroaniline	8.288	138	255824	126.572	ppm	97
87) 5-Nitro-o-toluidine	8.272	152	268086	132.455	ppm	98
89) Sulfotepp	8.518	322	152946	134.380	ppm	94
90) Octachlorocyclopentene	8.502	307	154028	126.567	ppm	99
92) Thionazin	8.219	107	139116	114.076	ppm	98
93) 4,6-Dinitro-2-methylph...	8.310	198	169495	129.330	ppm	99
94) Diphenylamine	8.368	169	1287070	229.752	ppm	99
95) 1,2 Diphenylhydrazine	8.406	77	752275	109.522	ppm	97
96) N-Nitrosodiphenylamine	8.368	169	1287070	229.755	ppm	99
97) 1,3,5-Trinitrobenzene	8.652	213	95645	132.071	ppm	# 1
98) Diallate	8.647	86	279708	114.508	ppm	97

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN228.D  
 Acq On : 6 Mar 2018 2:58 pm  
 Operator : J.Misiurewicz  
 Sample : 120 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 10 Sample Multiplier: 1

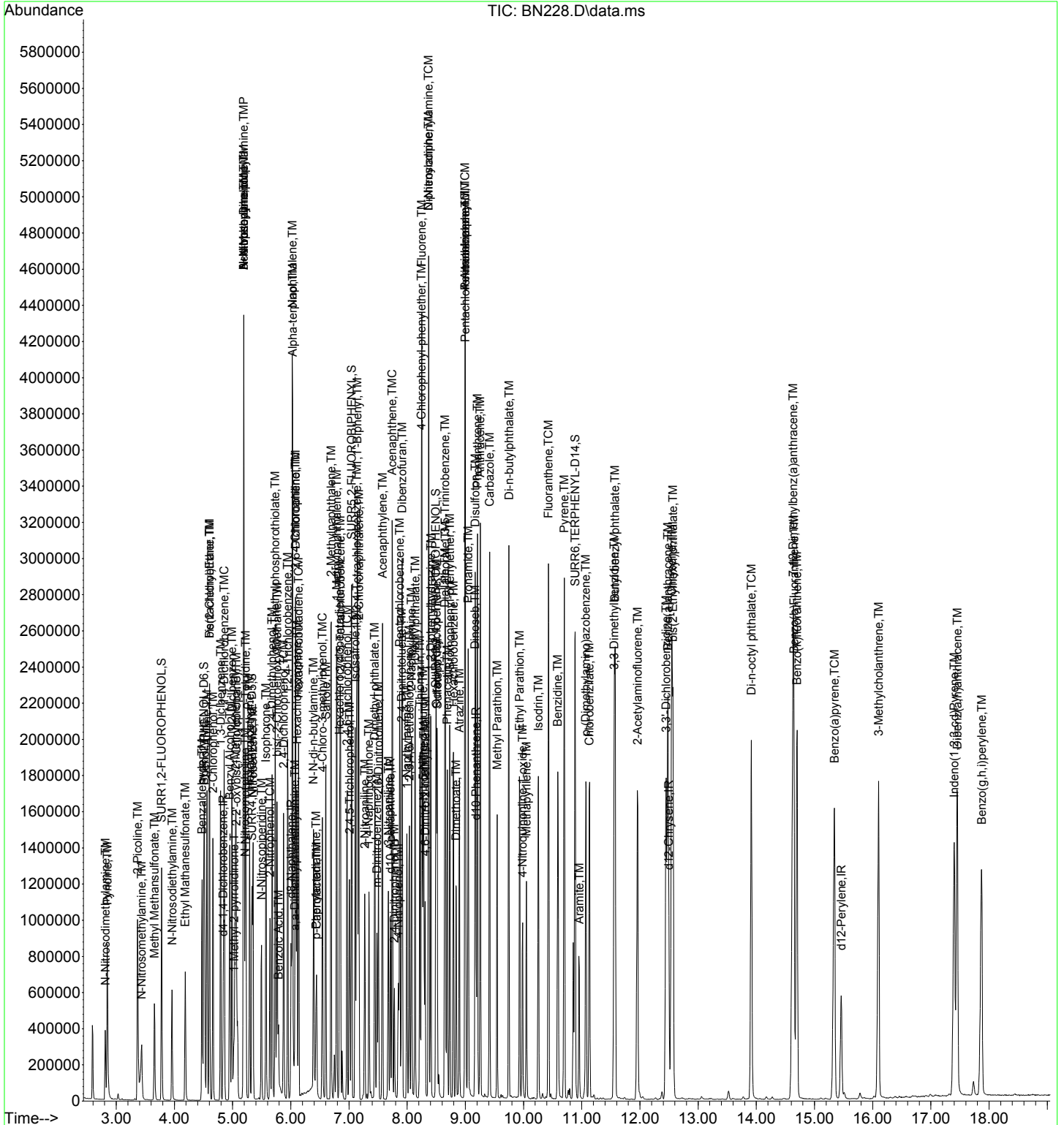
Quant Time: Mar 09 10:45:35 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
99) Phorate	8.657	121	152109	119.598	ppm	#	78
100) Phenacetin	8.689	108	447604	124.809	ppm		97
101) 4-Bromophenyl-phenylether	8.732	248	226643	112.199	ppm		97
102) Hexachlorobenzene	8.796	284	287004	115.000	ppm		93
103) Dimethoate	8.839	87	264955	111.251	ppm		98
104) Atrazine	8.898	215	106688	117.540	ppm		90
105) Pentachlorophenol	8.994	266	200265	131.840	ppm		100
106) 4-Aminobiphenyl	8.994	169	904169	125.216	ppm		99
107) Pentachloronitrobenzene	9.000	237	111173	128.941	ppm		97
108) Pronamide	9.048	173	402803	127.358	ppm		100
109) Dinoseb	9.165	211	235969	130.309	ppm		95
110) Disulfoton	9.171	88	275445	115.482	ppm		93
111) Phenanthrene	9.208	178	1218066	119.966	ppm		99
112) Anthracene	9.256	178	1230513	122.100	ppm		99
113) Carbazole	9.417	167	1252892	124.116	ppm		98
114) Di-n-butylphthalate	9.748	149	1583650	124.183	ppm		99
115) 4-Nitroquinonline-1-oxide	9.984	190	119903	130.032	ppm		91
116) Fluoranthene	10.428	202	1366770	122.339	ppm		99
118) Methyl Parathion	9.545	109	250006	128.326	ppm		96
119) Ethyl Parathion	9.930	97	178787	129.297	ppm		99
120) Methapyrilene	10.048	58	299099	121.737	ppm		95
121) Isodrin	10.256	193	140172	127.271	ppm		89
122) Benzidine	10.588	184	911880	126.842	ppm		99
123) Pyrene	10.700	202	1383050	124.253	ppm		99
125) Aramite	10.957	185	162539m	126.096	ppm		
126) p-(Dimethylamino)azobe...	11.069	120	404646	129.514	ppm		95
127) Chlorobenzilate	11.128	139	407664	125.404	ppm		92
128) Butyl benzyl phthalate	11.572	149	728753	123.256	ppm		96
129) 3,3-Dimethylbenzidine	11.556	212	886309	128.042	ppm		100
130) 2-Acetylaminofluorene	11.957	181	613329	133.659	ppm		99
131) 3,3'-Dichlorobenzidine	12.449	252	537014	129.612	ppm		98
132) Benzo(a)anthracene	12.481	228	1370142	123.751	ppm		99
133) Chrysene	12.546	228	1279392	122.245	ppm		98
134) bis(2-Ethylhexyl)phtha...	12.567	149	1033319	127.011	ppm		99
136) Di-n-octyl phthalate	13.915	149	1773246	129.711	ppm		97
137) 7,12-Dimethylbenz(a)an...	14.632	256	680626	128.951	ppm		96
138) Benzo(b)Fluoranthene	14.648	252	1501129	127.615	ppm		97
139) Benzo(k)fluoranthene	14.701	252	1378486	123.128	ppm		100
140) Benzo(a)pyrene	15.343	252	1275091	126.983	ppm		97
141) 3-Methylcholanthrene	16.103	268	745662	130.792	ppm		98
142) Indeno(1,2,3-cd)Pyrene	17.402	276	1125383	119.458	ppm		93
143) Dibenz(a,h)anthracene	17.456	278	1253890	121.616	ppm		96
144) Benzo(g,h,i)perylene	17.873	276	1053041	112.505	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN228.D  
Acq On : 6 Mar 2018 2:58 pm  
Operator : J.Misiurewicz  
Sample : 120 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 10 Sample Multiplier: 1

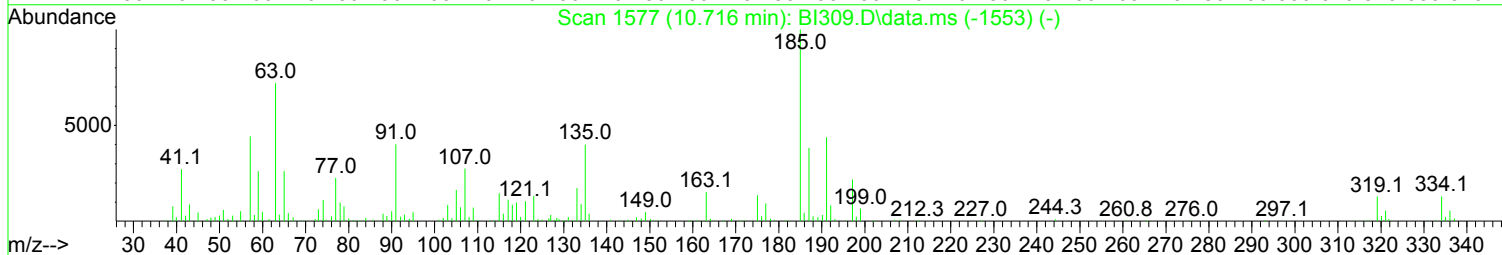
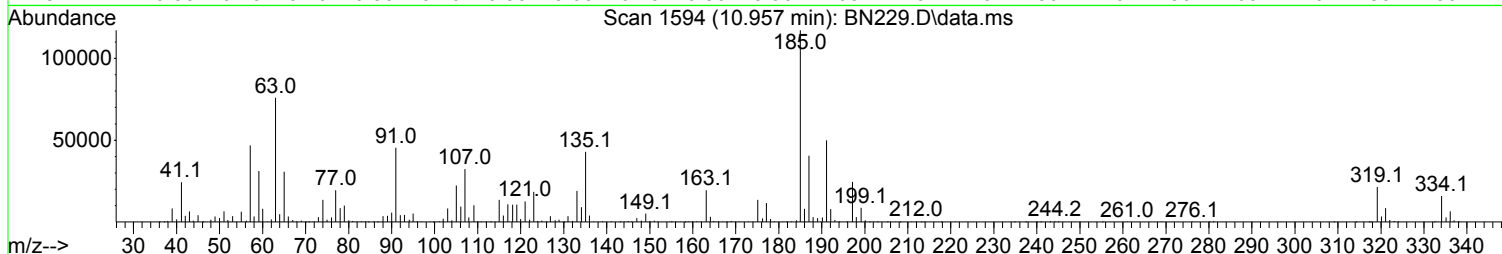
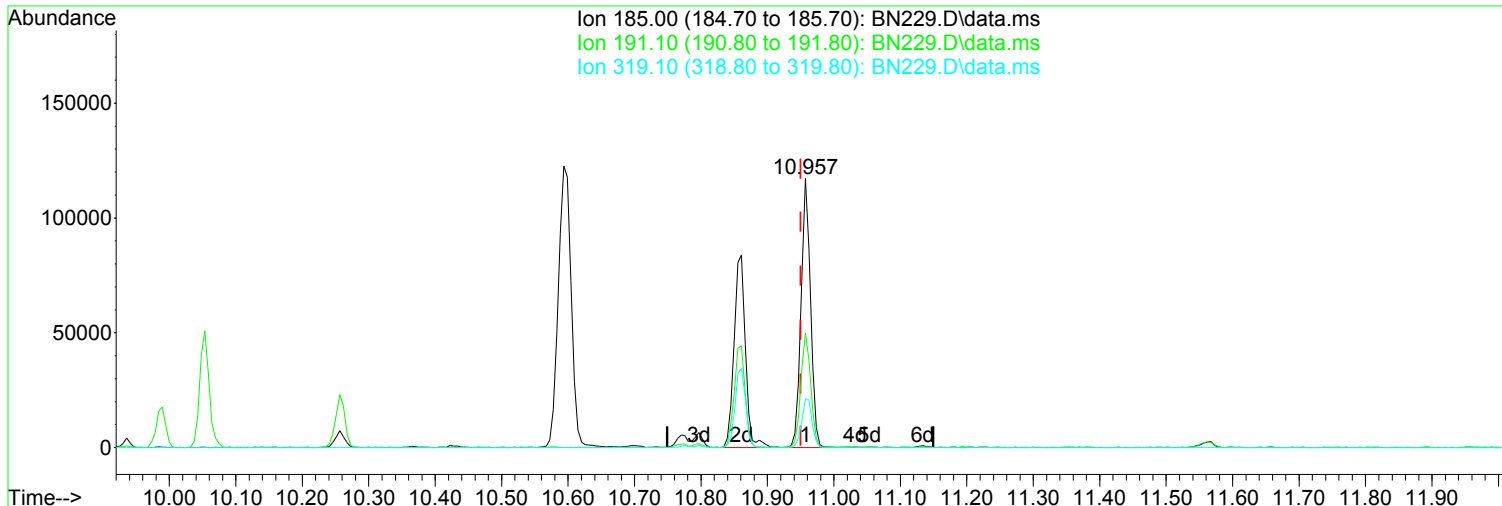
Quant Time: Mar 09 10:45:35 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN229.D  
 Acq On : 6 Mar 2018 3:31 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 10:45:42 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



TIC: BN229.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.957min (+ 0.007) 160.93 ppm m

After

response 214256

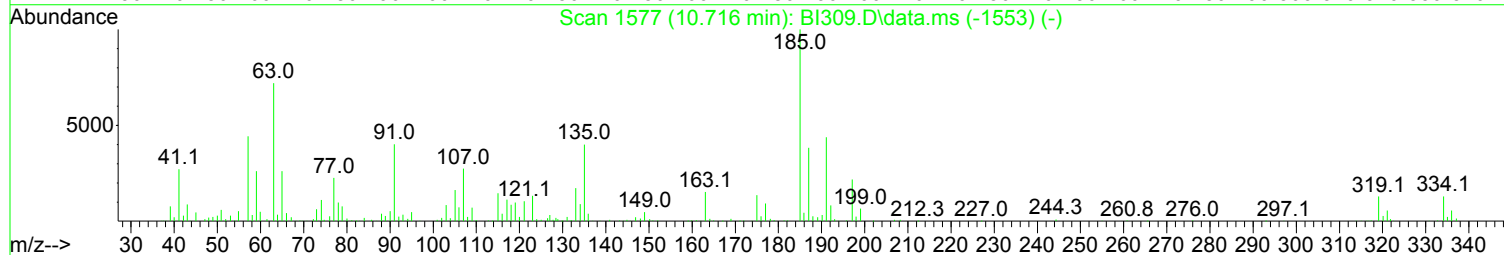
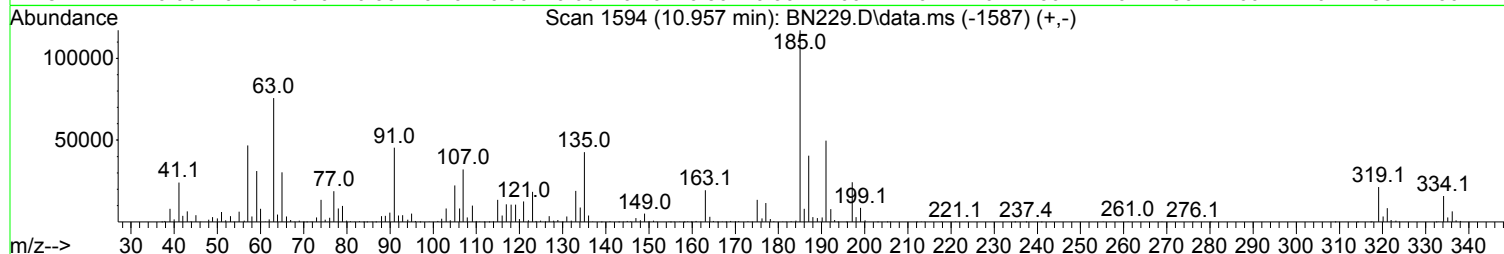
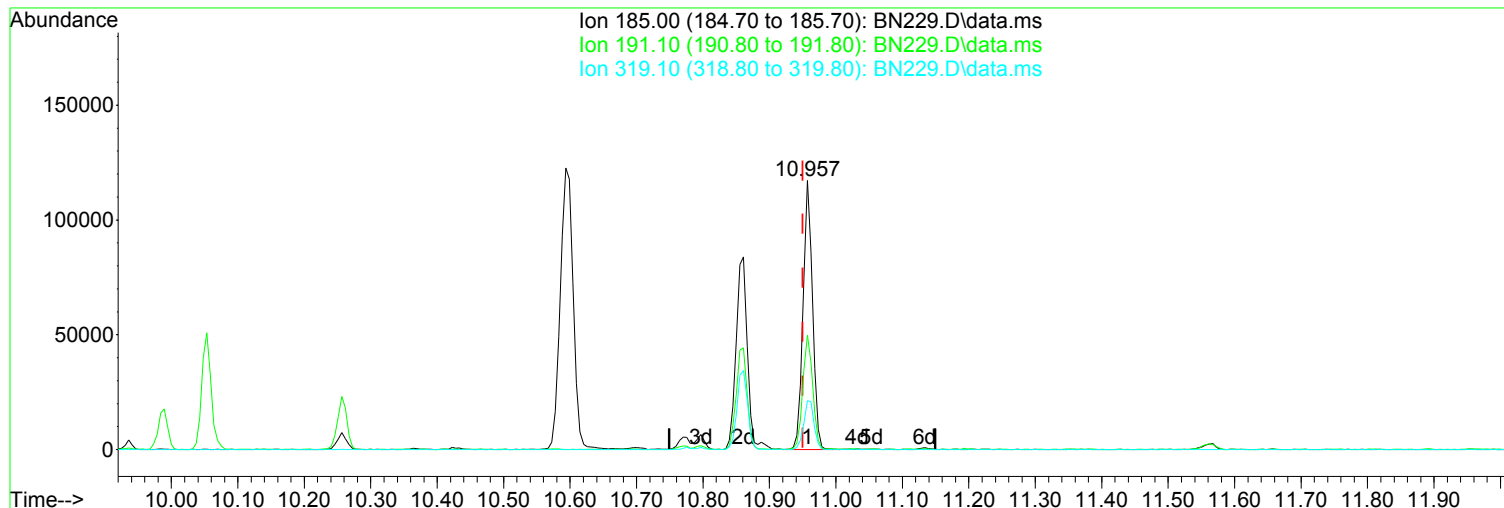
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	42.63
319.10	16.20	18.23
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN229.D  
Acq On : 6 Mar 2018 3:31 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 10:45:42 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



TIC: BN229.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.957min (+ 0.007) 86.65 ppm

Before

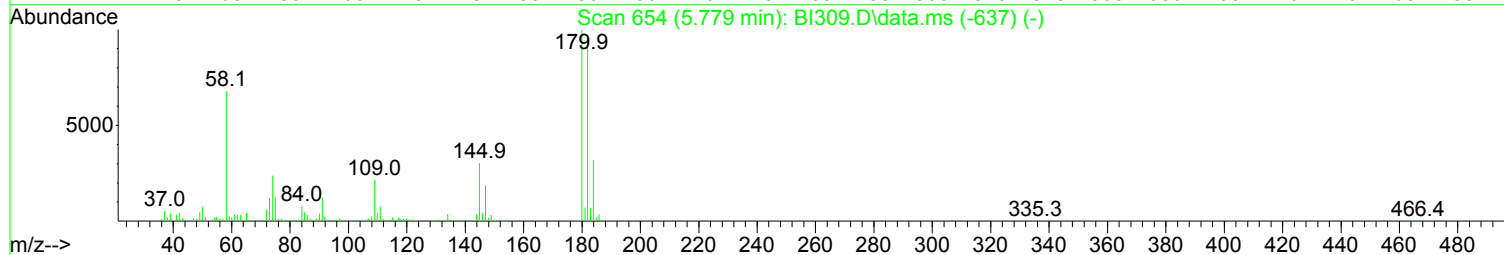
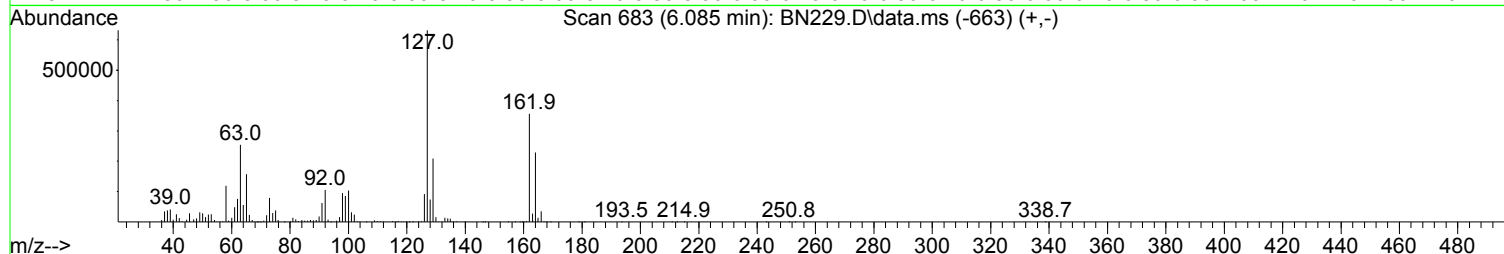
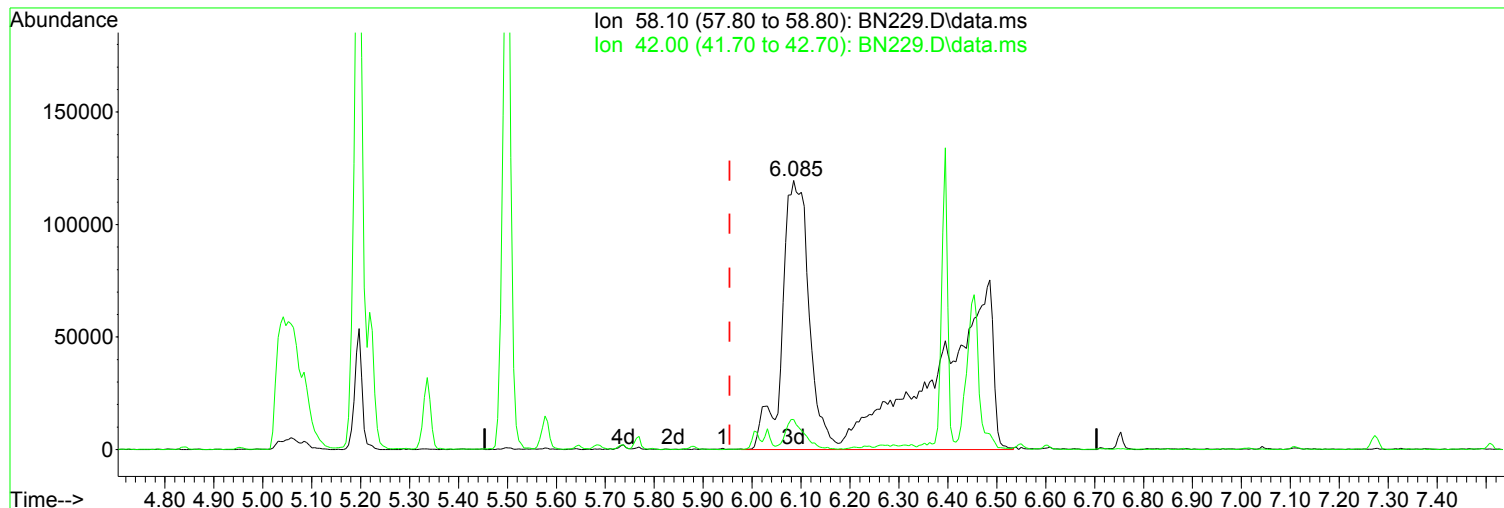
response 115356

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	42.49
319.10	16.20	18.19
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN229.D  
Acq On : 6 Mar 2018 3:31 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 10:45:42 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

6.085min (+ 0.130) 163.47 ppm m

After

response 1057584

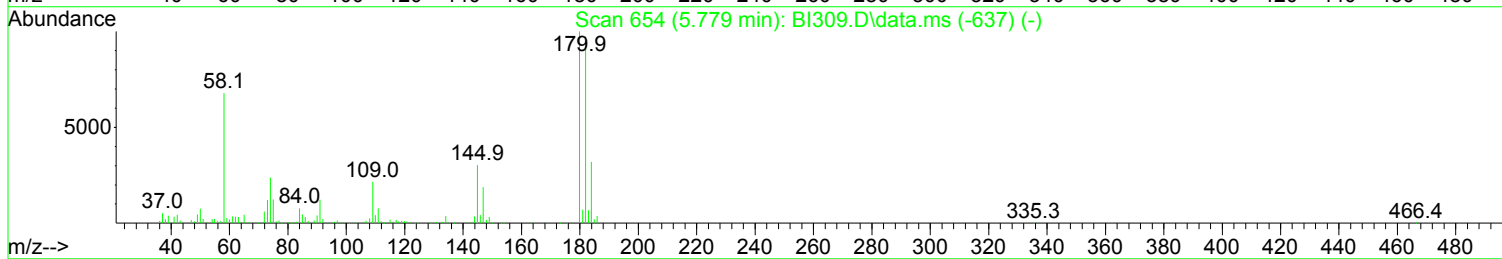
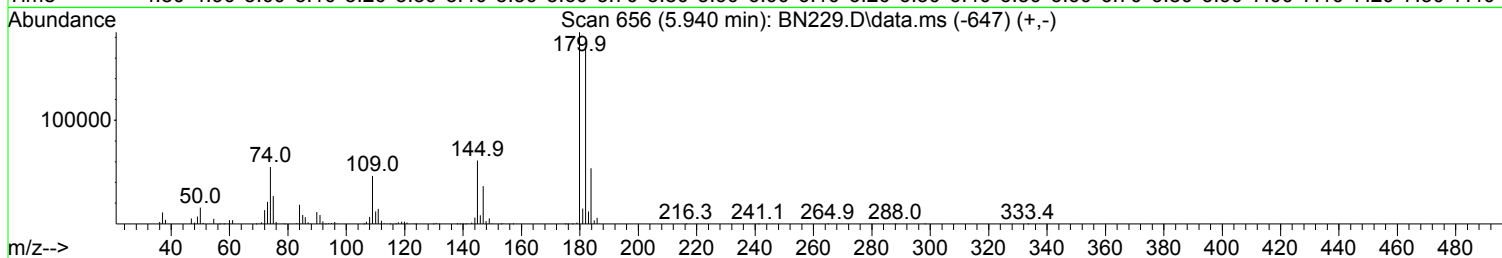
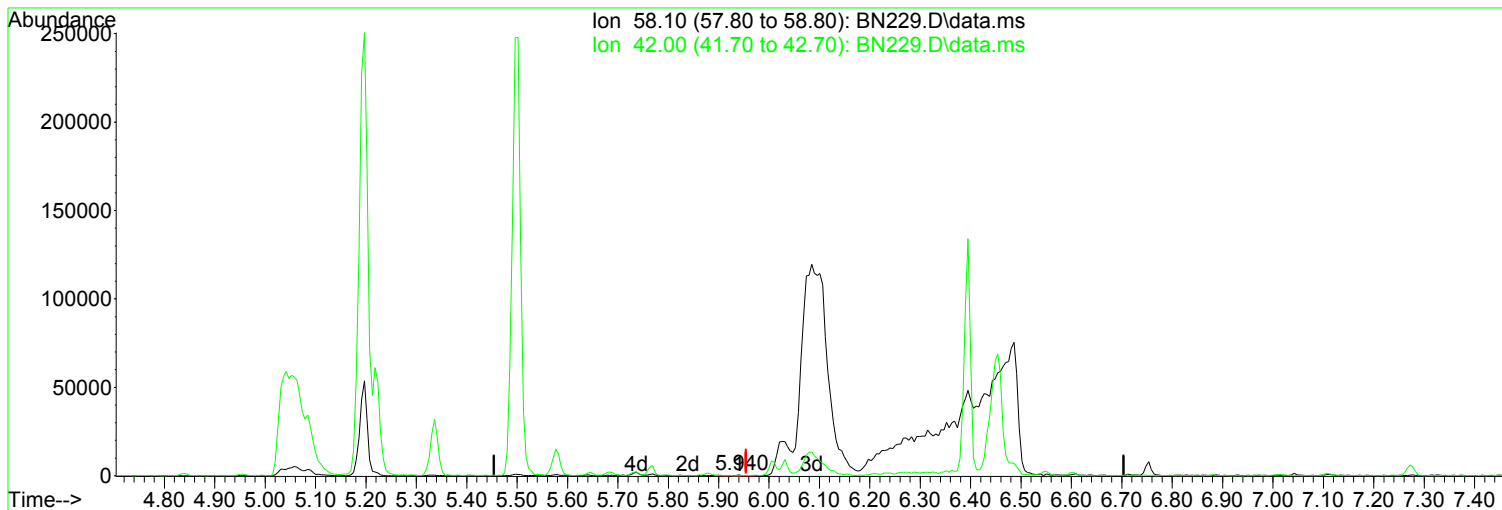
Peak not found.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	11.18
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN229.D  
 Acq On : 6 Mar 2018 3:31 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 10:45:42 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration



TIC: BN229.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.940min (-0.014) 0.13 ppm

Before

response 852

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN229.D  
 Acq On : 6 Mar 2018 3:31 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 10:45:42 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.838	152	102176	40.00	ppm	0.00
33) d8-Naphthalene	6.010	136	406873	40.00	ppm	0.00
57) d10-Acenaphthene	7.711	164	215088	40.00	ppm	0.00
91) d10-Phenanthrene	9.182	188	361731	40.00	ppm	0.00
117) d12-Chrysene	12.503	240	381962	40.00	ppm	0.01
135) d12-Perylene	15.461	264	383510	40.00	ppm	0.00

System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.779	112	559060	164.19	ppm	0.00
Spiked Amount	200.000	Range	10 - 105	Recovery	=	82.09%
12) SURR2,PHENOL-D6	4.507	99	666994	161.67	ppm	0.00
Spiked Amount	200.000	Range	10 - 107	Recovery	=	80.83%
34) SURR4,NITROBENZENE-D5	5.336	82	552750	163.90	ppm	0.00
Spiked Amount	100.000	Range	37 - 117	Recovery	=	163.90%#
63) SURR5,2-FLUOROBIPHENYL	7.047	172	1164889	157.12	ppm	0.00
Spiked Amount	100.000	Range	39 - 119	Recovery	=	157.12%#
88) SURR3,2,4,6-TRIBROMOPH...	8.497	330	222690	179.94	ppm	0.00
Spiked Amount	200.000	Range	28 - 157	Recovery	=	89.97%
124) SURR6,TERPHENYL-D14	10.888	244	1351210	157.79	ppm	0.00
Spiked Amount	100.000	Range	40 - 133	Recovery	=	157.79%#

Target Compounds						Qvalue
2) Pyridine	2.843	79	537066	165.964	ppm	98
3) N-Nitrosodimethylamine	2.811	74	276483	172.377	ppm	97
4) 2-Picoline	3.368	93	555413	164.043	ppm	98
5) N-Nitrosomethylamine	3.437	42	231373	156.606	ppm	94
6) Methyl Methansulfonate	3.656	80	280785	158.202	ppm	97
8) N-Nitrosodiethylamine	3.961	102	231785	158.961	ppm	96
9) Ethyl Mathanesulfonate	4.186	79	382964	158.966	ppm	98
11) Aniline	4.560	93	934373	159.811	ppm	97
13) Phenol	4.518	94	647635	158.149	ppm	97
14) bis(2-Clethyl)Ether	4.603	93	466864	156.844	ppm	97
15) Pentachloroethane	4.603	117	201091	155.442	ppm	99
16) 2-Chlorophenol	4.662	128	568297	160.931	ppm	97
17) 1,3-Diclbzene	4.796	146	603431	159.369	ppm	100
18) 1,4-Dichlorobenzene	4.854	146	614680	156.486	ppm	99
19) 1,2-Diclbzene	4.988	146	584187	157.004	ppm	97
20) Benzyl Alcohol	4.956	79	424069	164.038	ppm	98
21) 1-Methyl-2-pyrrolidinone	5.042	99	325870	157.173	ppm	98
22) 2,2'-oxybis(1-Chloropr...	5.063	45	460642	151.584	ppm	# 78
23) 2-Methylphenol	5.052	108	491366	160.354	ppm	96
24) 3+4-Methylphenol	5.202	108	558410	171.929	ppm	94
25) Acetophenone	5.197	105	732129	158.653	ppm	91
26) N-Nitroso-Di-n-propyla...	5.197	70	359798	157.426	ppm	99
27) N-Nitrosopyrrolidine	5.197	100	278422	159.343	ppm	75
28) N-Nitrosomorpholine	5.218	56	268176	156.181	ppm	92
29) o-Toluidine	5.229	106	815257	155.690	ppm	80
30) Hexachloroethane	5.293	117	240480	158.420	ppm	96
31) o,o,o-Triethylphosphor...	5.737	198	251532	157.546	ppm	90
32) Alpha-terpinol	6.031	121	194402	157.598	ppm	92
35) Nitrobenzene	5.352	77	552747	161.902	ppm	93
36) N-Nitrosopiperidine	5.502	42	290284	158.007	ppm	93
37) Isophorone	5.577	82	956602	159.176	ppm	100
38) 2-Nitrophenol	5.646	139	318767	172.215	ppm	99
39) Benzoic Acid	5.801	105	391333	163.463	ppm	96

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN229.D  
 Acq On : 6 Mar 2018 3:31 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 10:45:42 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 2,4-Dimethylphenol	5.684	107	534864	158.800	ppm	95
41) bis(-2-Chloroethoxy)Me...	5.764	93	590097	159.795	ppm	99
42) 2,4-Dichlorophenol	5.881	162	447985	163.033	ppm	98
43) a,a-Dimethylphenethyla...	6.085	58	1057584m	163.467	ppm	
44) 1,2,4-Trichlorobenzene	5.951	180	505751	159.384	ppm	99
45) Naphthalene	6.031	128	1539732	151.754	ppm	99
46) 4-Chloroaniline	6.085	127	642576	155.493	ppm	98
47) 2,6-Dichlorophenol	6.090	162	467633	158.635	ppm	99
48) Hexachlorobutadiene	6.138	225	287211	158.784	ppm	93
49) Hexachloropropene	6.106	213	364624	164.259	ppm	98
50) 4-Chloro-3-methylphenol	6.550	107	443402	159.913	ppm	98
51) N-N-di-n-butylamine	6.395	84	332498	143.158	ppm	93
52) Caprolactam	6.454	113	167971	162.839	ppm	97
53) p-Phenylenediamine	6.438	80	18661	159.250	ppm	# 71
54) Safrole	6.604	162	386711	155.767	ppm	97
55) 2-Methylnaphthalene	6.694	142	1032116	153.979	ppm	97
56) 1-Methylnaphthalene	6.791	142	980089	154.931	ppm	99
58) Hexachlorocyclopentadiene	6.839	237	324083	172.207	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.855	216	510806	159.621	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.133	216	493926	161.044	ppm	99
61) 2,4,6-Trichlorophenol	6.967	196	327247	168.825	ppm	99
62) 2,4,5-Trichlorophenol	7.010	196	332676	164.699	ppm	97
64) Isosafrole	7.112	104	195799	161.600	ppm	95
65) 1,1'-Biphenyl	7.149	154	1264678	155.416	ppm	99
66) 2-Chloronaphthalene	7.170	162	981697	156.715	ppm	99
67) 2-Nitroaniline	7.272	65	258438	166.232	ppm	94
68) 1,4-Naphthoquinone	7.347	158	315668	160.381	ppm	96
69) m-Dinitrobenzene	7.486	168	197427	179.409	ppm	88
70) Acenaphthylene	7.577	152	1556506	157.492	ppm	98
71) Dimethyl phthalate	7.449	163	1157472	159.347	ppm	99
72) 2,6-Dinitrotoluene	7.513	165	270483	169.510	ppm	85
73) Acenaphthene	7.748	153	1041585	154.589	ppm	98
74) 3-Nitroaniline	7.684	138	313537	174.570	ppm	93
75) 2,4-Dinitrophenol	7.786	184	145739	156.085	ppm	96
76) Dibenzofuran	7.919	168	1343672	152.658	ppm	98
77) 2,4-Dinitrotoluene	7.909	165	367075	173.471	ppm	94
78) 4-Nitrophenol	7.855	65	189494	167.448	ppm	79
79) Pentachlorobenzene	7.876	250	440388	153.961	ppm	99
80) 1-Naphthylamine	8.000	143	693592	162.555	ppm	99
81) 2-Naphthylamine	8.080	143	931142	161.292	ppm	99
82) 2,3,4,6-Tetrachlorophenol	8.037	232	270213	176.954	ppm	98
83) Fluorene	8.256	166	1079567	152.714	ppm	99
84) 4-Chlorophenyl-phenyle...	8.251	204	464316	146.277	ppm	95
85) Diethylphthalate	8.139	149	1191217	162.892	ppm	98
86) 4-Nitroaniline	8.294	138	343689	167.800	ppm	98
87) 5-Nitro-o-toluidine	8.278	152	360851	175.935	ppm	96
89) Sulfotep	8.518	322	201518	174.719	ppm	93
90) Octachlorocyclopentene	8.502	307	203348	164.888	ppm	98
92) Thionazin	8.224	107	192115	156.833	ppm	100
93) 4,6-Dinitro-2-methylph...	8.315	198	236529	179.674	ppm	96
94) Diphenylamine	8.374	169	1712506	304.332	ppm	99
95) 1,2 Diphenylhydrazine	8.411	77	1003449	145.438	ppm	94
96) N-Nitrosodiphenylamine	8.374	169	1712332	304.305	ppm	99
97) 1,3,5-Trinitrobenzene	8.663	213	127789	175.670	ppm	# 1
98) Diallate	8.647	86	376060	153.266	ppm	98
99) Phorate	8.663	121	203281	159.119	ppm	# 69

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN229.D  
 Acq On : 6 Mar 2018 3:31 pm  
 Operator : J.Misiurewicz  
 Sample : 160 ppm STD  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 11 Sample Multiplier: 1

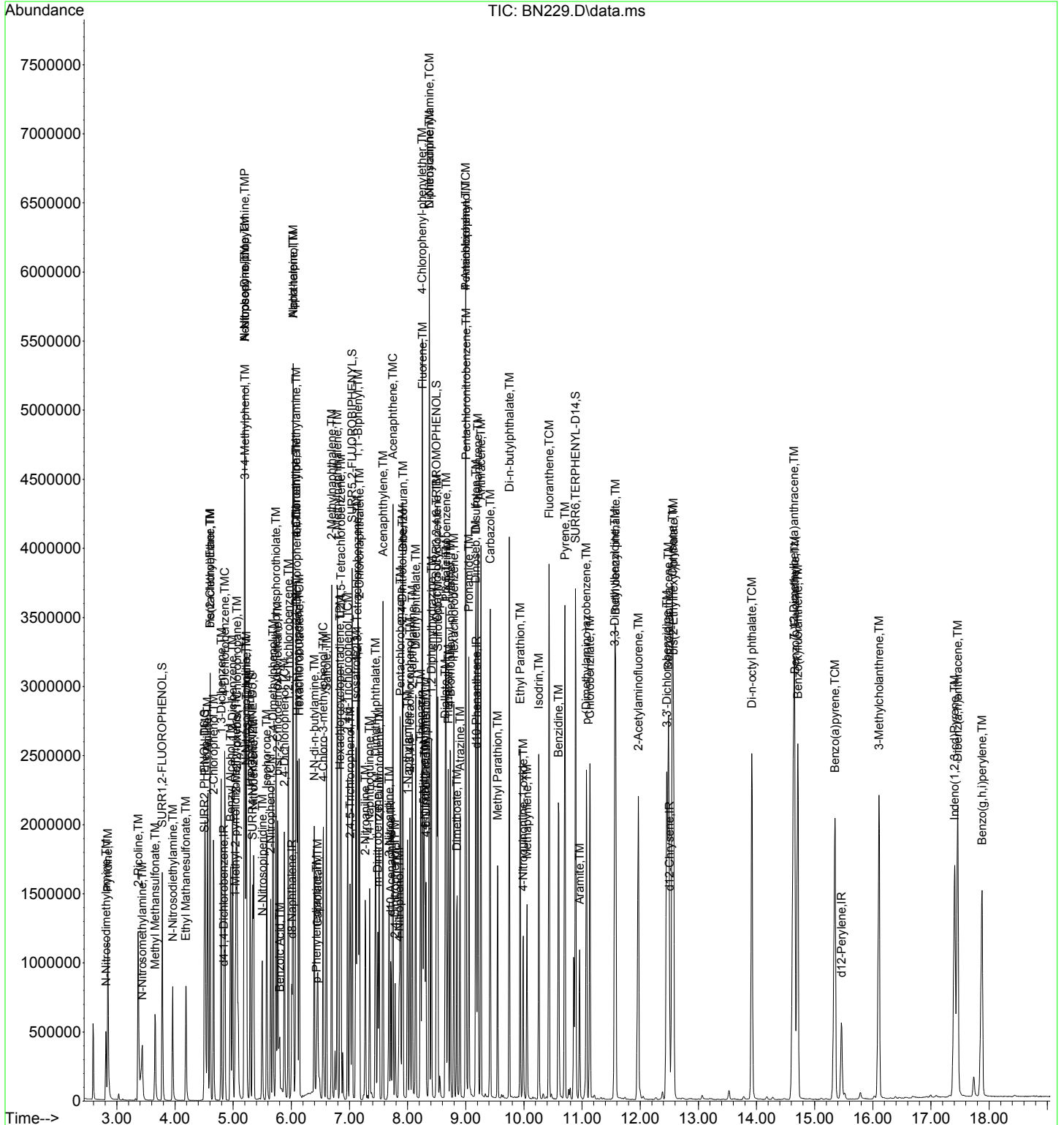
Quant Time: Mar 09 10:45:42 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:30:29 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) Phenacetin	8.700	108	586252	162.739	ppm	94
101) 4-Bromophenyl-phenylether	8.738	248	307874	151.732	ppm	94
102) Hexachlorobenzene	8.796	284	393478	156.960	ppm	95
103) Dimethoate	8.850	87	320249	133.869	ppm	99
104) Atrazine	8.903	215	136118	149.295	ppm	94
105) Pentachlorophenol	9.000	266	270266	177.130	ppm	100
106) 4-Aminobiphenyl	9.000	169	1148490	158.342	ppm	99
107) Pentachloronitrobenzene	9.005	237	151664	175.119	ppm	99
108) Pronamide	9.053	173	522172	164.363	ppm	99
109) Dinoseb	9.171	211	322255	177.165	ppm	96
110) Disulfoton	9.176	88	365600	152.596	ppm	96
111) Phenanthrene	9.208	178	1581638	155.079	ppm	100
112) Anthracene	9.262	178	1608723	158.916	ppm	99
113) Carbazole	9.422	167	1630791	160.832	ppm	98
114) Di-n-butylphthalate	9.749	149	1994446	155.698	ppm	99
115) 4-Nitroquinoline-1-oxide	9.989	190	160416	173.191	ppm	87
116) Fluoranthene	10.433	202	1763361	157.133	ppm	99
118) Methyl Parathion	9.545	109	310885	154.500	ppm	94
119) Ethyl Parathion	9.936	97	231237	161.909	ppm	95
120) Methapyrilene	10.053	58	387754	152.801	ppm	93
121) Isodrin	10.257	193	183257	161.099	ppm	92
122) Benzidine	10.594	184	1184407	159.511	ppm	98
123) Pyrene	10.706	202	1797058	156.313	ppm	98
125) Aramite	10.957	185	214256m	160.931	ppm	
126) p-(Dimethylamino)azobe...	11.075	120	526080	163.026	ppm	96
127) Chlorobenzilate	11.134	139	537080	159.960	ppm	86
128) Butyl benzyl phthalate	11.578	149	967423	158.418	ppm	95
129) 3,3-Dimethylbenzidine	11.562	212	1154819	161.526	ppm	99
130) 2-Acetylaminofluorene	11.968	181	812084	171.345	ppm	98
131) 3,3'-Dichlorobenzidine	12.455	252	712475	166.492	ppm	99
132) Benzo(a)anthracene	12.487	228	1811109	158.377	ppm	99
133) Chrysene	12.551	228	1685624	155.938	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.573	149	1356515	161.434	ppm	99
136) Di-n-octyl phthalate	13.920	149	2339352	172.982	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.643	256	909163	174.122	ppm	94
138) Benzo(b)Fluoranthene	14.659	252	1988179	170.858	ppm	98
139) Benzo(k)fluoranthene	14.712	252	1772400	160.035	ppm	99
140) Benzo(a)pyrene	15.349	252	1685170	169.647	ppm	98
141) 3-Methylcholanthrene	16.108	268	980223	173.804	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.408	276	1388426	148.982	ppm	94
143) Dibenz(a,h)anthracene	17.461	278	1582056	155.114	ppm	96
144) Benzo(g,h,i)perylene	17.878	276	1233795	133.250	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN229.D  
Acq On : 6 Mar 2018 3:31 pm  
Operator : J.Misiurewicz  
Sample : 160 ppm STD  
Misc : Initial Calibration 8270D/625  
ALS Vial : 11 Sample Multiplier: 1

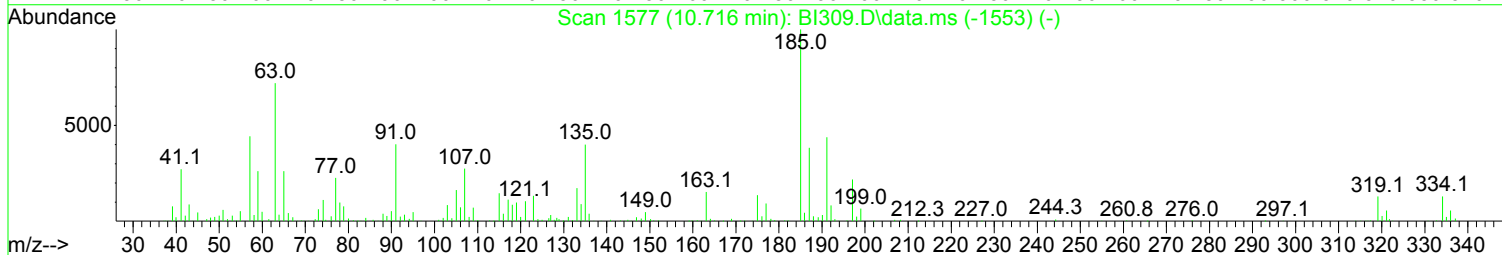
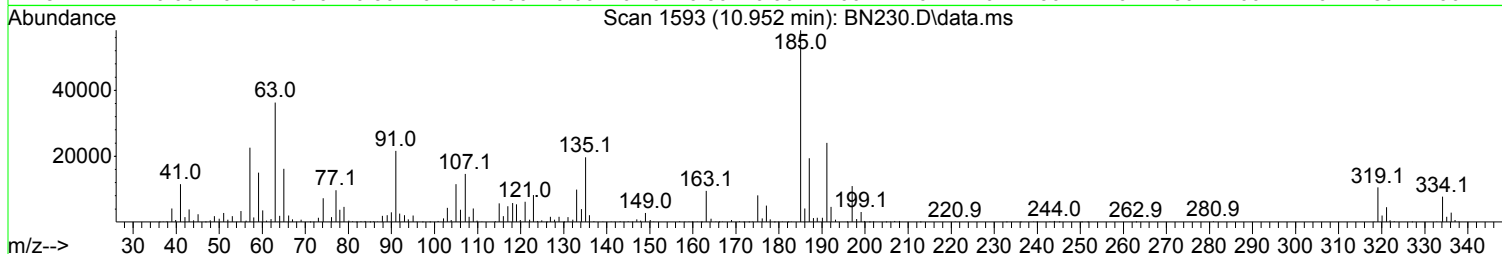
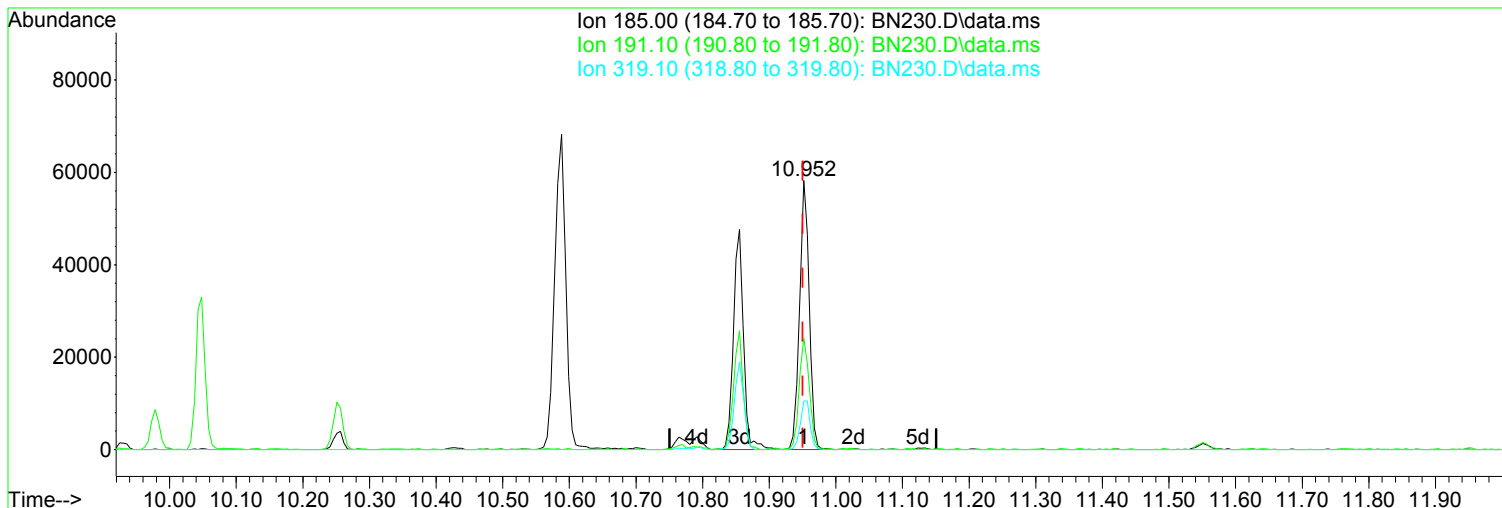
Quant Time: Mar 09 10:45:42 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:30:29 2018  
Response via : Initial Calibration





Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN230.D  
Acq On : 6 Mar 2018 3:59 pm  
Operator : J.Misiurewicz  
Sample : ICV #1  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 11:08:59 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.001) 82.75 ppm m

After

response 109411

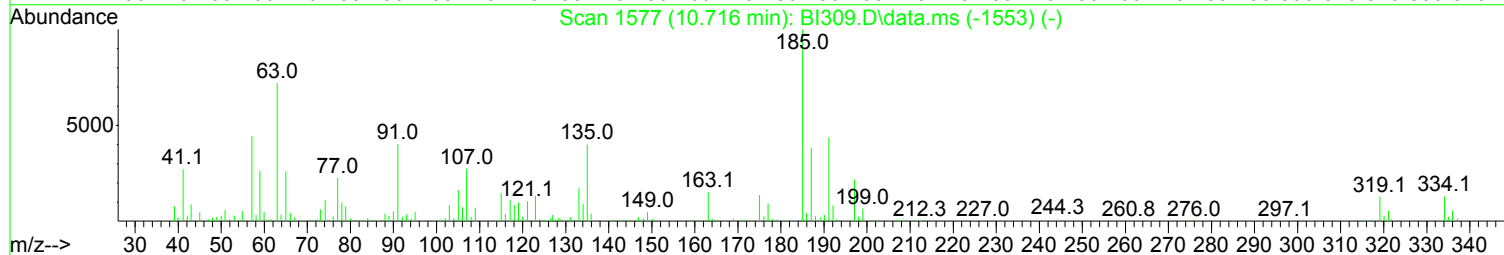
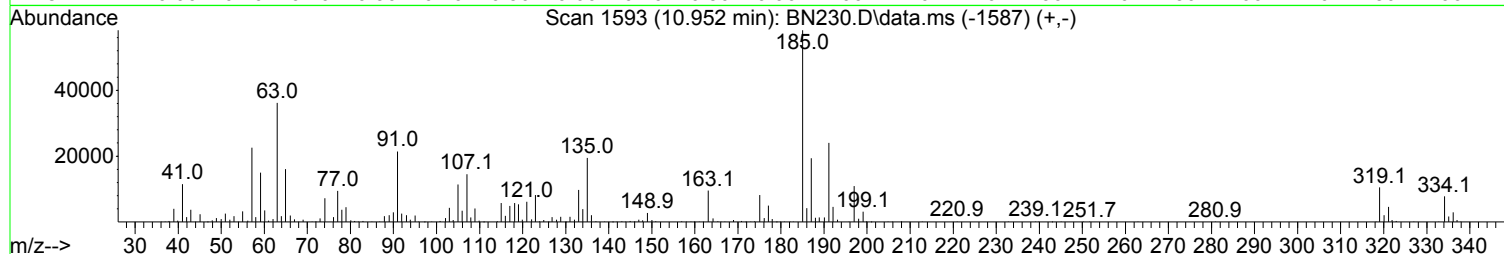
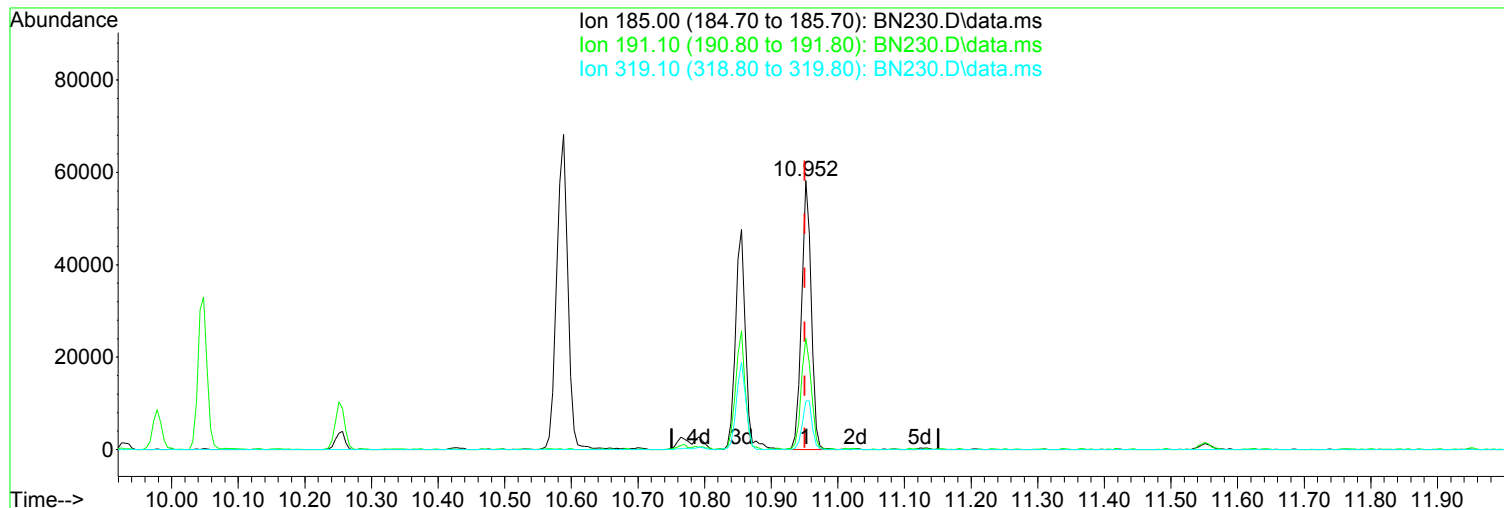
Split Peak.

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	41.35
319.10	16.20	18.13
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN230.D  
 Acq On : 6 Mar 2018 3:59 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #1  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 11:08:59 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration



TIC: BN230.D\data.ms

(125) Aramite (TM)

Manual Integration:

10.952min (+ 0.001) 44.66 ppm

Before

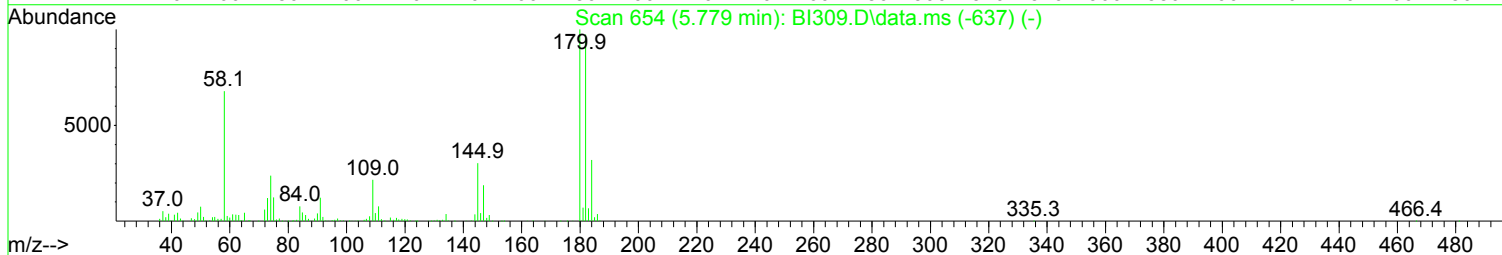
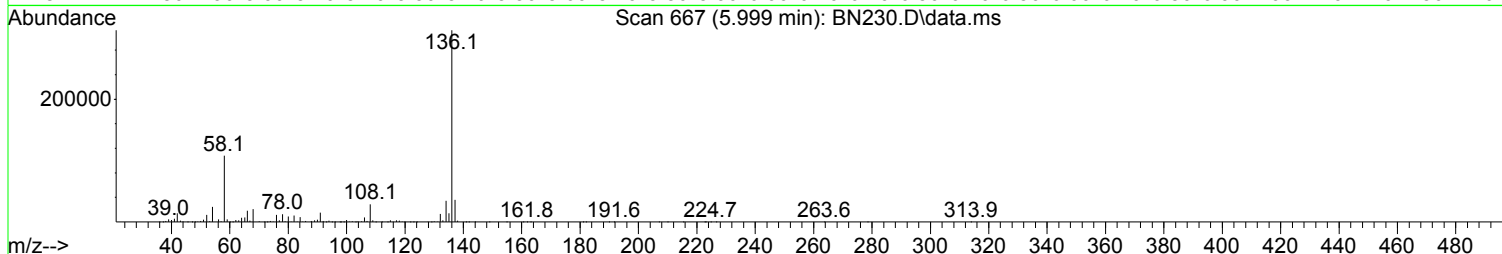
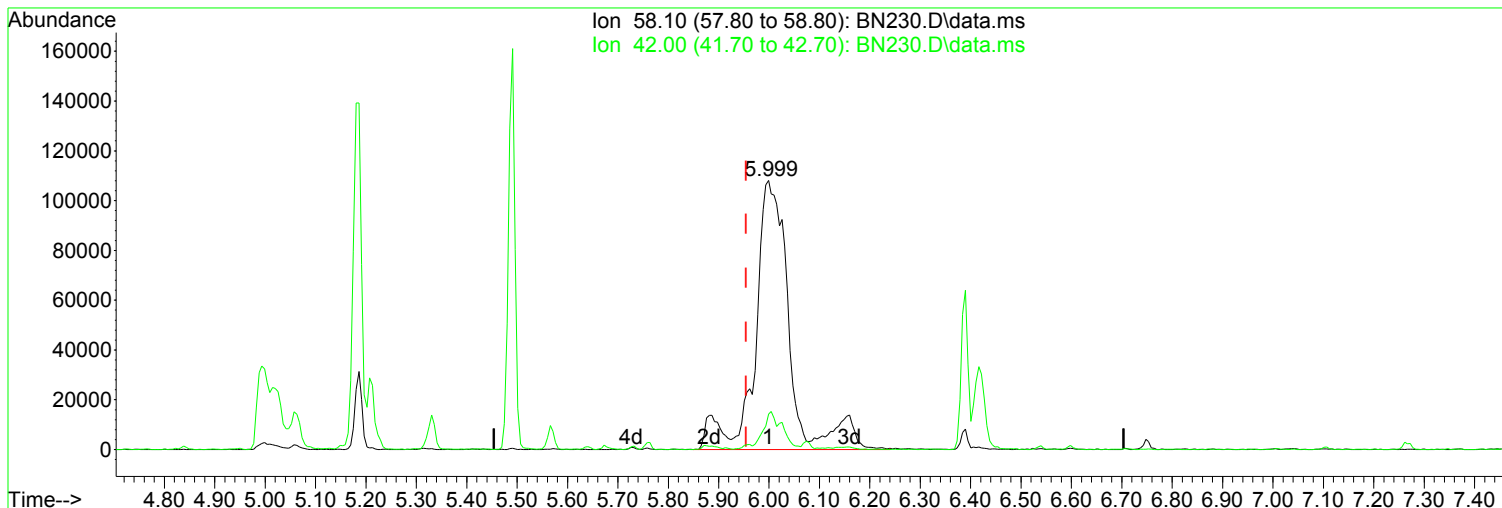
response 59052

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	44.80	41.35
319.10	16.20	18.05
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN230.D  
Acq On : 6 Mar 2018 3:59 pm  
Operator : J.Misiurewicz  
Sample : ICV #1  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 11:08:59 2018  
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Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.999min (+ 0.045) 75.65 ppm m

After

response 510916

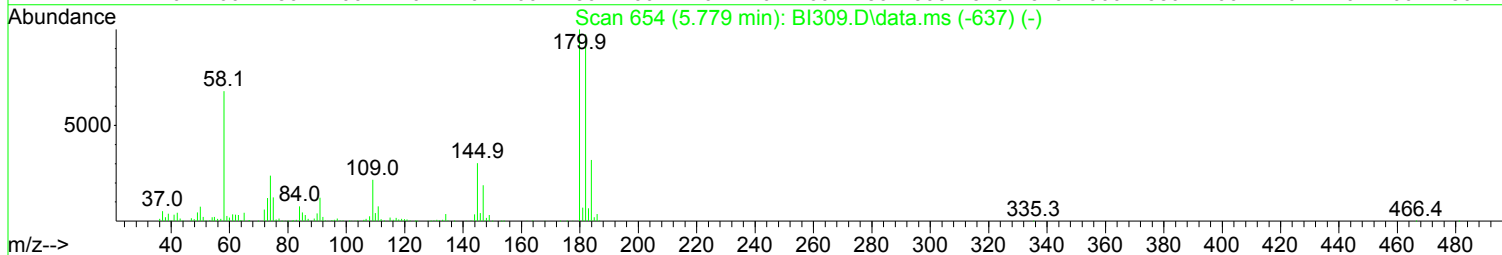
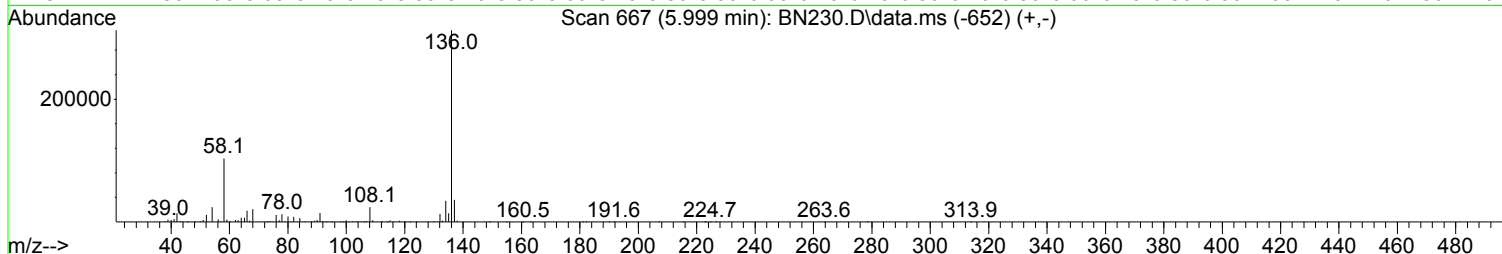
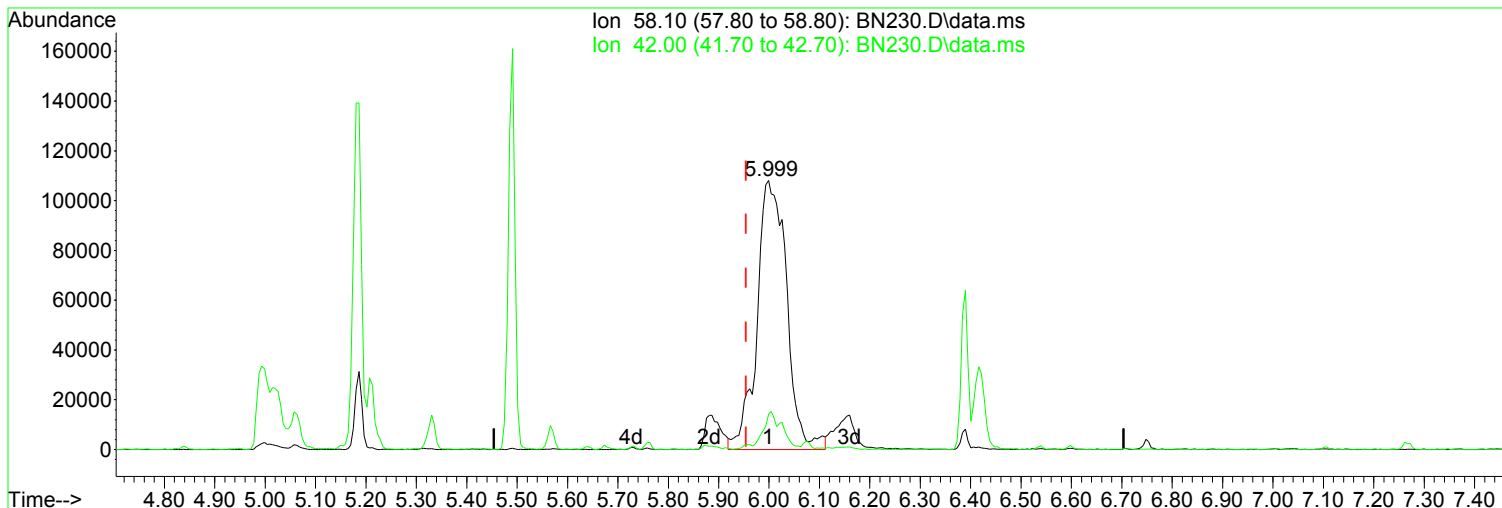
Poor integration.

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	13.24
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN230.D  
Acq On : 6 Mar 2018 3:59 pm  
Operator : J.Misiurewicz  
Sample : ICV #1  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 11:08:59 2018  
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Quant Title : 8270 BNA ANALYSIS  
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Response via : Initial Calibration



(43) a,a-Dimethylphenethylamine (TM)

Manual Integration:

5.999min (+ 0.045) 65.39 ppm

Before

response 441648

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	15.00	13.41
0.00	0.00	0.00
0.00	0.00	0.00

03/09/18

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN230.D  
 Acq On : 6 Mar 2018 3:59 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #1  
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Quant Time: Mar 09 11:08:59 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	40.000	40.000	0.0	99	0.00
2	TM Pyridine	80.000	81.348	-1.7	95	-0.01
3	TM N-Nitrosodimethylamine	80.000	85.030	-6.3	98	0.00
4	TM 2-Picoline	80.000	84.335	-5.4	101	0.00
5	TM N-Nitrosomethylamine	80.000	74.637	6.7	93	0.00
6	TM Methyl Methansulfonate	80.000	76.303	4.6	94	0.00
7	S SURR1,2-FLUOROPHENOL	80.000	73.425	8.2	89	0.00
8	TM N-Nitrosodiethylamine	80.000	77.044	3.7	94	0.00
9	TM Ethyl Mathanesulfonate	80.000	76.065	4.9	92	0.00
10	TM Benzaldehyde	80.000	0.000	100.0#	0	-4.47#
11	TM Aniline	80.000	78.668	1.7	96	0.00
12	S SURR2, PHENOL-D6	80.000	72.299	9.6	88	0.00
13	TMC Phenol	80.000	77.417	3.2	95	0.00
14	TM bis(2-Clethyl)Ether	80.000	79.920	0.1	99	0.00
15	TM Pentachloroethane	80.000	73.742	7.8	91	0.00
16	TM 2-Chlorophenol	80.000	76.598	4.3	93	0.00
17	TM 1,3-Diclbzence	80.000	75.859	5.2	92	0.00
18	TMC 1,4-Dichlorobenzene	80.000	73.880	7.7	91	0.00
19	TM 1,2-Diclbzence	80.000	74.242	7.2	92	0.00
20	TM Benzyl Alcohol	80.000	77.159	3.6	92	0.00
21	T 1-Methyl-2-pyrrolidinone	80.000	83.243	-4.1	98	0.00
22	TM 2,2'-oxybis(1-Chloropropane	80.000	88.268	-10.3	111	0.00
23	TM 2-Methylphenol	80.000	73.608	8.0	90	0.01
24	TM 3+4-Methylphenol	80.000	75.028	6.2	93	0.00
25	TM Acetophenone	80.000	78.833	1.5	97	0.00
26	TMP N-Nitroso-Di-n-propylamine	80.000	81.460	-1.8	100	0.00
27	TM N-Nitrosopyrrolidine	80.000	79.735	0.3	98	0.00
28	TM N-Nitrosomorpholine	80.000	80.736	-0.9	99	0.00
29	TM o-Toluidine	80.000	77.973	2.5	96	0.00
30	TM Hexachloroethane	80.000	77.265	3.4	94	0.00
31	TM o,o,o-Triethylphosphorothio	80.000	78.324	2.1	96	0.00
32	TM Alpha-terpinol	80.000	79.802	0.2	102	0.00
33	IR d8-Naphthalene	40.000	40.000	0.0	101	0.00
34	S SURR4,NITROBENZENE-D5	80.000	71.236	11.0	89	0.00
35	TM Nitrobenzene	80.000	82.167	-2.7	103	0.00
36	TM N-Nitrosopiperidine	80.000	75.942	5.1	98	0.00
37	TM Isophorone	80.000	84.159	-5.2	105	0.00
38	TCM 2-Nitrophenol	80.000	78.409	2.0	95	0.00
39	TM Benzoic Acid	80.000	0.000	100.0#	0	-5.76#
40	TM 2,4-Dimethylphenol	80.000	72.909	8.9	92	0.00
41	TM bis(-2-Chloroethoxy)Methane	80.000	75.460	5.7	94	0.00
42	TCM 2,4-Dichlorophenol	80.000	75.701	5.4	94	0.00
43	TM a,a-Dimethylphenethylamine	80.000	75.650	5.4	100	0.04
44	TM 1,2,4-Trichlorobenzene	80.000	72.194	9.8	91	0.00
45	TM Naphthalene	80.000	74.035	7.5	95	0.00
46	TM 4-Chloroaniline	80.000	74.885	6.4	95	0.00
47	TM 2,6-Dichlorophenol	80.000	68.159	14.8	85	0.00
48	TCM Hexachlorobutadiene	80.000	71.519	10.6	89	0.00
49	TM Hexachloropropene	80.000	73.602	8.0	92	0.00
50	TMC 4-Chloro-3-methylphenol	80.000	74.387	7.0	93	0.00
51	TM N-N-di-n-butylamine	80.000	76.127	4.8	104	0.00

Data Path : I:\ACQUDATA\5973D\Data\030618\  
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 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

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 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52 TM	Caprolactam	80.000	74.982	6.3	95	0.00
53 TM	p-Phenylenediamine	80.000	22.745	71.6#	29	0.00
54 TM	Safrole	80.000	74.719	6.6	95	0.00
55 TM	2-Methylnaphthalene	80.000	71.464	10.7	91	0.00
56 TM	1-Methylnaphthalene	80.000	71.432	10.7	92	0.00
57 IR	d10-Acenaphthene	40.000	40.000	0.0	97	0.00
58 TPM	Hexachlorocyclopentadiene	80.000	74.968	6.3	88	0.00
59 TM	1,2,4,5-Tetrachlorobenzene	80.000	74.095	7.4	91	0.00
60 TM	1,2,3,4-Tetrachlorobenzene	80.000	77.120	3.6	94	0.00
61 TCM	2,4,6-Trichlorophenol	80.000	75.141	6.1	90	0.00
62 TM	2,4,5-Trichlorophenol	80.000	69.303	13.4	85	0.00
63 S	SURR5,2-FLUOROBIPHENYL	80.000	72.582	9.3	90	0.00
64 TM	Isosafrole	80.000	79.435	0.7	97	0.00
65 TM	1,1'-Biphenyl	80.000	79.499	0.6	99	0.00
66 TM	2-Chloronaphthalene	80.000	75.678	5.4	93	0.00
67 TM	2-Nitroaniline	80.000	81.101	-1.4	97	0.00
68 TM	1,4-Naphthoquinone	80.000	77.006	3.7	92	0.00
69 TM	m-Dinitrobenzene	80.000	75.233	6.0	91	0.00
70 TM	Acenaphthylene	80.000	79.035	1.2	97	0.00
71 TM	Dimethyl phthalate	80.000	69.143	13.6	90	0.00
72 TM	2,6-Dinitrotoluene	80.000	81.860	-2.3	102	0.00
73 TMC	Acenaphthene	80.000	75.962	5.0	95	0.00
74 TM	3-Nitroaniline	80.000	79.618	0.5	95	0.00
75 TPM	2,4-Dinitrophenol	80.000	86.284	-7.9	106	0.00
76 TM	Dibenzofuran	80.000	75.759	5.3	95	0.00
77 TM	2,4-Dinitrotoluene	80.000	85.573	-7.0	101	0.00
78 TMP	4-Nitrophenol	80.000	77.925	2.6	91	0.00
79 TM	Pentachlorobenzene	80.000	74.206	7.2	93	0.00
80 TM	1-Naphthylamine	80.000	89.157	-11.4	113	0.00
81 TM	2-Naphthylamine	80.000	73.078	8.7	91	0.00
82 TM	2,3,4,6-Tetrachlorophenol	80.000	76.398	4.5	91	0.00
83 TM	Fluorene	80.000	75.979	5.0	98	0.00
84 TM	4-Chlorophenyl-phenylether	80.000	76.351	4.6	99	0.00
85 TM	Diethylphthalate	80.000	71.623	10.5	89	0.00
86 TM	4-Nitroaniline	80.000	79.711	0.4	95	0.00
87 TM	5-Nitro-o-toluidine	80.000	82.904	-3.6	98	0.00
88 S	SURR3,2,4,6-TRIBROMOPHENOL	80.000	75.967	5.0	90	0.00
89 TM	Sulfotepp	80.000	79.370	0.8	91	0.00
90 TM	Octachlorocyclopentene	80.000	82.635	-3.3	100	0.00
91 IR	d10-Phenanthrene	40.000	40.000	0.0	97	0.00
92 TM	Thionazin	80.000	74.852	6.4	94	0.00
93 TM	4,6-Dinitro-2-methylphenol	80.000	77.142	3.6	90	0.00
94 TM	Diphenylamine	160.000	154.130	3.7	100	0.00
95 TM	1,2 Diphenylhydrazine	80.000	76.316	4.6	101	0.00
96 TCM	N-Nitrosodiphenylamine	160.000	154.229	3.6	100	0.00
97 TM	1,3,5-Trinitrobenzene	80.000	78.921	1.3	94	0.00
98 TM	Diallate	80.000	74.484	6.9	96	0.00
99 TM	Phorate	80.000	74.386	7.0	90	0.00
100 TM	Phenacetin	80.000	81.324	-1.7	98	0.01
101 TM	4-Bromophenyl-phenylether	80.000	73.318	8.4	97	0.00

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN230.D  
 Acq On : 6 Mar 2018 3:59 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #1  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 11:08:59 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	TM Hexachlorobenzene	80.000	69.259	13.4	90	0.00
103	TM Dimethoate	80.000	75.644	5.4	93	0.00
104	TM Atrazine	80.000	80.521	-0.7	94	0.00
105	TCM Pentachlorophenol	80.000	72.433	9.5	91	0.00
106	TM 4-Aminobiphenyl	80.000	79.241	0.9	92	0.00
107	TM Pentachloronitrobenzene	80.000	79.873	0.2	95	0.00
108	TM Pronamide	80.000	81.889	-2.4	96	0.00
109	TM Dinoseb	80.000	77.849	2.7	89	0.00
110	TM Disulfoton	80.000	72.557	9.3	92	0.00
111	TM Phenanthrene	80.000	76.462	4.4	95	0.00
112	TM Anthracene	80.000	78.861	1.4	95	0.00
113	TM Carbazole	80.000	78.696	1.6	94	0.00
114	TM Di-n-butylphthalate	80.000	77.611	3.0	89	0.00
115	TM 4-Nitroquinoline-1-oxide	80.000	80.130	-0.2	94	0.00
116	TCM Fluoranthene	80.000	80.467	-0.6	95	0.00
117	IR d12-Chrysene	40.000	40.000	0.0	99	0.00
118	TM Methyl Parathion	80.000	80.160	-0.2	90	0.00
119	TM Ethyl Parathion	80.000	83.394	-4.2	93	0.00
120	TM Methapyrilene	80.000	98.694	-23.4#	121	0.00
121	TM Isodrin	80.000	76.205	4.7	91	0.00
122	TM Benzidine	80.000	75.430	5.7	89	0.00
123	TM Pyrene	80.000	79.437	0.7	95	0.00
124	S SURR6, TERPHENYL-D14	80.000	73.640	7.9	89	0.00
125	TM Aramite	80.000	82.747	-3.4	98	0.00
126	TM p-(Dimethylamino)azobenzene	80.000	82.011	-2.5	96	0.00
127	TM Chlorobenzilate	80.000	80.077	-0.1	97	0.00
128	TM Butyl benzyl phthalate	80.000	72.322	9.6	87	0.00
129	TM 3,3-Dimethylbenzidine	80.000	82.194	-2.7	96	0.00
130	TM 2-Acetylaminofluorene	80.000	85.771	-7.2	98	0.00
131	TM 3,3'-Dichlorobenzidine	80.000	82.650	-3.3	97	0.00
132	TM Benzo(a)anthracene	80.000	79.091	1.1	97	0.00
133	TM Chrysene	80.000	79.978	0.0	99	0.00
134	TM bis(2-Ethylhexyl)phthalate	80.000	75.877	5.2	91	0.00
135	IR d12-Perylene	40.000	40.000	0.0	100	0.00
136	TCM Di-n-octyl phthalate	80.000	72.865	8.9	85	0.00
137	TM 7,12-Dimethylbenz(a)anthrac	80.000	83.617	-4.5	98	0.00
138	TM Benzo(b)Fluoranthene	80.000	79.640	0.4	96	0.01
139	TM Benzo(k)fluoranthene	80.000	80.094	-0.1	97	0.01
140	TCM Benzo(a)pyrene	80.000	82.401	-3.0	98	0.00
141	TM 3-Methylcholanthrene	80.000	80.779	-1.0	93	0.00
142	TM Indeno(1,2,3-cd)Pyrene	80.000	77.350	3.3	96	0.00
143	TM Dibenz(a,h)anthracene	80.000	79.386	0.8	97	0.00
144	TM Benzo(g,h,i)perylene	80.000	71.739	10.3	92	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\5973D\Data\030618\  
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 Sample : ICV #1  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

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 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
<b>Internal Standards</b>							
1) d4-1,4-Dichlorobenzene	4.838	152	102831	40.00	ppm	0.00	
33) d8-Naphthalene	6.004	136	424697	40.00	ppm	0.00	
57) d10-Acenaphthene	7.711	164	222464	40.00	ppm	0.00	
91) d10-Phenanthrene	9.176	188	360906	40.00	ppm	0.00	
117) d12-Chrysene	12.492	240	379035	40.00	ppm	0.00	
135) d12-Perylene	15.455	264	399847	40.00	ppm	0.00	
<b>System Monitoring Compounds</b>							
7) SURR1,2-FLUOROPHENOL	3.779	112	251618	73.42	ppm	0.00	
Spiked Amount	200.000	Range	10 - 105	Recovery	=	36.71%	
12) SURR2,PHENOL-D6	4.501	99	300196	72.30	ppm	0.00	
Spiked Amount	200.000	Range	10 - 107	Recovery	=	36.15%	
34) SURR4,NITROBENZENE-D5	5.330	82	250763	71.24	ppm	0.00	
Spiked Amount	100.000	Range	37 - 117	Recovery	=	71.24%	
63) SURR5,2-FLUOROBIPHENYL	7.042	172	556568	72.58	ppm	0.00	
Spiked Amount	100.000	Range	39 - 119	Recovery	=	72.58%	
88) SURR3,2,4,6-TRIBROMOPH...	8.491	330	97239	75.97	ppm	0.00	
Spiked Amount	200.000	Range	28 - 157	Recovery	=	37.98%	
124) SURR6,TERPHENYL-D14	10.882	244	625788	73.64	ppm	0.00	
Spiked Amount	100.000	Range	40 - 133	Recovery	=	73.64%	
<b>Target Compounds</b>							
							Qvalue
2) Pyridine	2.843	79	264934	81.348	ppm		98
3) N-Nitrosodimethylamine	2.811	74	139209	85.030	ppm		96
4) 2-Picoline	3.367	93	287371	84.335	ppm		98
5) N-Nitrosomethylamine	3.432	42	110977	74.637	ppm		94
6) Methyl Methansulfonate	3.656	80	136295	76.303	ppm		97
8) N-Nitrosodiethylamine	3.956	102	113060	77.044	ppm		98
9) Ethyl Mathanesulfonate	4.180	79	184423	76.065	ppm		99
11) Aniline	4.555	93	462898	78.668	ppm		98
13) Phenol	4.512	94	319067	77.417	ppm		99
14) bis(2-Clethyl)Ether	4.598	93	239417	79.920	ppm		99
15) Pentachloroethane	4.603	117	96010	73.742	ppm		98
16) 2-Chlorophenol	4.662	128	272226	76.598	ppm		93
17) 1,3-Diclbzene	4.790	146	289011	75.859	ppm		97
18) 1,4-Dichlorobenzene	4.854	146	292062	73.880	ppm		100
19) 1,2-Diclbzene	4.988	146	278013	74.242	ppm		97
20) Benzyl Alcohol	4.951	79	200748	77.159	ppm		98
21) 1-Methyl-2-pyrrolidinone	4.993	99	173696	83.243	ppm		96
22) 2,2'-oxybis(1-Chloropr...	5.063	45	269955	88.268	ppm		96
23) 2-Methylphenol	5.052	108	227001	73.608	ppm		97
24) 3+4-Methylphenol	5.191	108	245222	75.028	ppm		97
25) Acetophenone	5.191	105	366120	78.833	ppm		94
26) N-Nitroso-Di-n-propyla...	5.186	70	187371	81.460	ppm		95
27) N-Nitrosopyrrolidine	5.181	100	140215	79.735	ppm		96
28) N-Nitrosomorpholine	5.207	56	139519	80.736	ppm		89
29) o-Toluidine	5.223	106	410915	77.973	ppm		94
30) Hexachloroethane	5.293	117	118039	77.265	ppm		92
31) o,o,o-Triethylphosphor...	5.732	198	125850	78.324	ppm		93
32) Alpha-terpinol	6.026	121	99070	79.802	ppm		89
35) Nitrobenzene	5.346	77	292833	82.167	ppm		91
36) N-Nitrosopiperidine	5.491	42	145630	75.942	ppm		94
37) Isophorone	5.566	82	527925	84.159	ppm		98
38) 2-Nitrophenol	5.641	139	151491	78.409	ppm		97
40) 2,4-Dimethylphenol	5.678	107	256330	72.909	ppm		96



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 Sample : ICV #1  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 12 Sample Multiplier: 1

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 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) bis(-2-Chloroethoxy)Me...	5.758	93	290870	75.460	ppm	98
42) 2,4-Dichlorophenol	5.876	162	217127	75.701	ppm	95
43) a,a-Dimethylphenethyla...	5.999	58	510916m	75.650	ppm	
44) 1,2,4-Trichlorobenzene	5.945	180	239119	72.194	ppm	99
45) Naphthalene	6.026	128	784086	74.035	ppm	100
46) 4-Chloroaniline	6.074	127	323019	74.885	ppm	97
47) 2,6-Dichlorophenol	6.085	162	209723	68.159	ppm	99
48) Hexachlorobutadiene	6.133	225	135031	71.519	ppm	97
49) Hexachloropropene	6.106	213	170539	73.602	ppm	98
50) 4-Chloro-3-methylphenol	6.539	107	215297	74.387	ppm	98
51) N-N-di-n-butylamine	6.389	84	184720	76.127	ppm	93
52) Caprolactam	6.416	113	80734	74.982	ppm	95
53) p-Phenylenediamine	6.427	80	2782	22.745	ppm	# 55
54) Safrole	6.598	162	193625	74.719	ppm	97
55) 2-Methylnaphthalene	6.689	142	500001	71.464	ppm	98
56) 1-Methylnaphthalene	6.785	142	471677	71.432	ppm	100
58) Hexachlorocyclopentadiene	6.839	237	145923	74.968	ppm	99
59) 1,2,4,5-Tetrachloroben...	6.849	216	245243	74.095	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.128	216	244641	77.120	ppm	100
61) 2,4,6-Trichlorophenol	6.962	196	150647	75.141	ppm	100
62) 2,4,5-Trichlorophenol	7.010	196	144913	69.303	ppm	97
64) Isosafrole	7.106	104	99547	79.435	ppm	93
65) 1,1'-Biphenyl	7.144	154	669098	79.499	ppm	98
66) 2-Chloronaphthalene	7.165	162	490322	75.678	ppm	99
67) 2-Nitroaniline	7.267	65	130410	81.101	ppm	95
68) 1,4-Naphthoquinone	7.341	158	156764	77.006	ppm	96
69) m-Dinitrobenzene	7.481	168	85627	75.233	ppm	# 70
70) Acenaphthylene	7.571	152	807892	79.035	ppm	99
71) Dimethyl phthalate	7.443	163	519467	69.143	ppm	100
72) 2,6-Dinitrotoluene	7.502	165	135102	81.860	ppm	93
73) Acenaphthene	7.743	153	529363	75.962	ppm	98
74) 3-Nitroaniline	7.673	138	147902	79.618	ppm	91
75) 2,4-Dinitrophenol	7.780	184	67860	86.284	ppm	93
76) Dibenzofuran	7.914	168	689671	75.759	ppm	99
77) 2,4-Dinitrotoluene	7.903	165	187287	85.573	ppm	96
78) 4-Nitrophenol	7.844	65	93349	77.925	ppm	92
79) Pentachlorobenzene	7.871	250	219536	74.206	ppm	99
80) 1-Napthylamine	7.994	143	393464	89.157	ppm	99
81) 2-Napthylamine	8.069	143	436334	73.078	ppm	95
82) 2,3,4,6-Tetrachlorophenol	8.031	232	120663	76.398	ppm	99
83) Fluorene	8.251	166	555530	75.979	ppm	97
84) 4-Chlorophenyl-phenyle...	8.245	204	250667	76.351	ppm	98
85) Diethylphthalate	8.133	149	541734	71.623	ppm	98
86) 4-Nitroaniline	8.277	138	168864	79.711	ppm	98
87) 5-Nitro-o-toluidine	8.267	152	175862	82.904	ppm	99
89) Sulfotepp	8.513	322	94683	79.370	ppm	94
90) Octachlorocyclopentene	8.497	307	105404	82.635	ppm	96
92) Thionazin	8.213	107	91482	74.852	ppm	97
93) 4,6-Dinitro-2-methylph...	8.304	198	101321	77.142	ppm	97
94) Diphenylamine	8.368	169	865327	154.130	ppm	99
95) 1,2 Diphenylhydrazine	8.400	77	525270	76.316	ppm	99
96) N-Nitrosodiphenylamine	8.368	169	865873	154.229	ppm	99
97) 1,3,5-Trinirobenzene	8.641	213	57279	78.921	ppm	# 79
98) Diallate	8.641	86	182341	74.484	ppm	87
99) Phorate	8.657	121	94814	74.386	ppm	93
100) Phenacetin	8.684	108	292293	81.324	ppm	93

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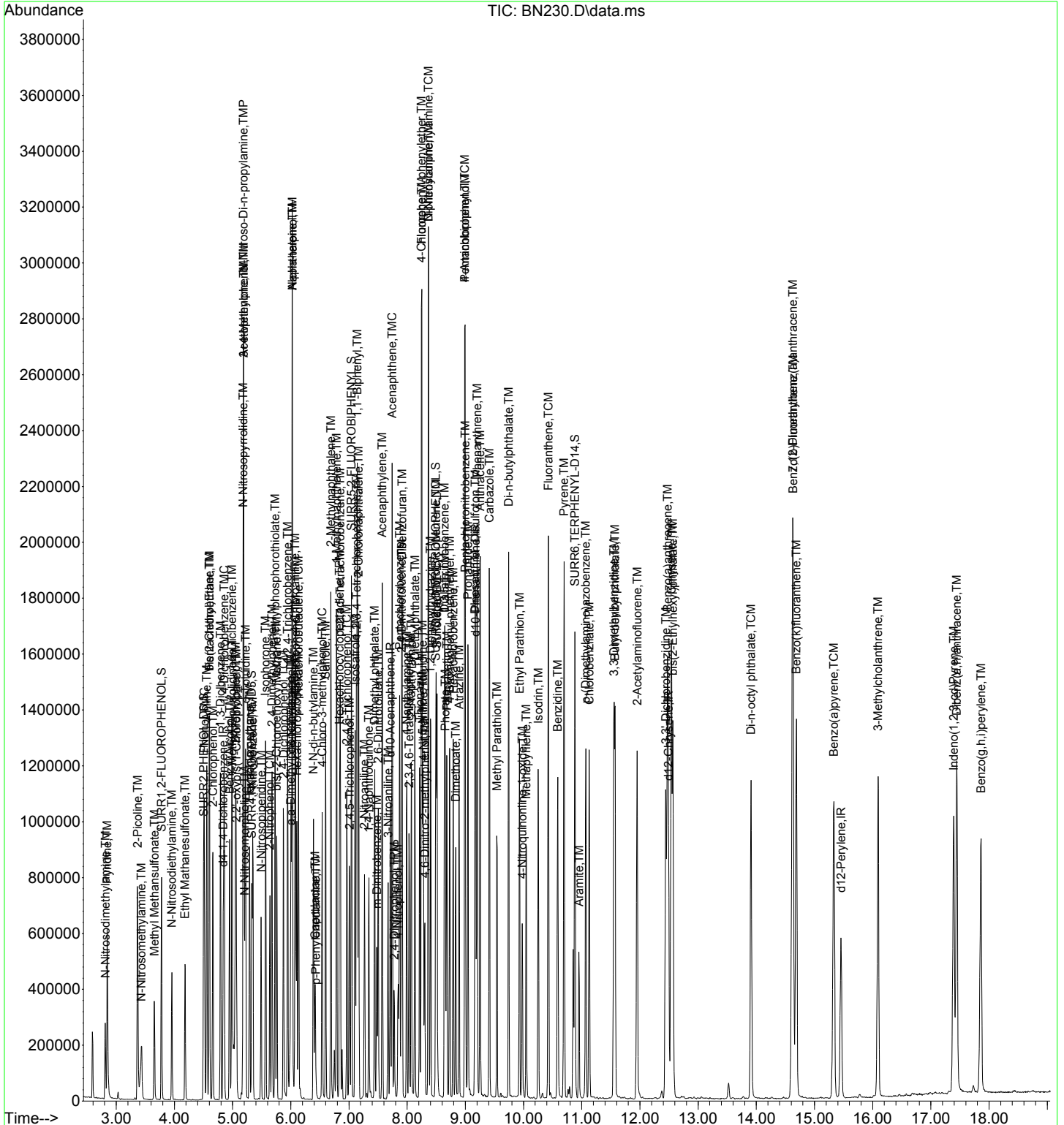
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 4-Bromophenyl-phenylether	8.732	248	148427	73.318	ppm	95
102) Hexachlorobenzene	8.791	284	173226	69.259	ppm	96
103) Dimethoate	8.834	87	180548	75.644	ppm	96
104) Atrazine	8.893	215	73247	80.521	ppm	94
105) Pentachlorophenol	8.989	266	110267	72.433	ppm	96
106) 4-Aminobiphenyl	8.989	169	573441	79.241	ppm	99
107) Pentachloronitrobenzene	9.000	237	70837	79.873	ppm	96
108) Pronamide	9.042	173	267096	81.889	ppm	98
109) Dinoseb	9.165	211	141281	77.849	ppm	98
110) Disulfoton	9.171	88	173440	72.557	ppm	95
111) Phenanthrene	9.203	178	778049	76.462	ppm	99
112) Anthracene	9.256	178	796498	78.861	ppm	98
113) Carbazole	9.411	167	796132	78.696	ppm	98
114) Di-n-butylphthalate	9.743	149	991902	77.611	ppm	100
115) 4-Nitroquinonline-1-oxide	9.978	190	74050	80.130	ppm	91
116) Fluoranthene	10.428	202	900950	80.467	ppm	98
118) Methyl Parathion	9.540	109	164165	80.160	ppm	94
119) Ethyl Parathion	9.930	97	118189	83.394	ppm	94
120) Methapyrilene	10.043	58	248532	98.694	ppm	99
121) Isodrin	10.251	193	86022	76.205	ppm	96
122) Benzidine	10.588	184	555796	75.430	ppm	99
123) Pyrene	10.695	202	906253	79.437	ppm	99
125) Aramite	10.952	185	109411m	82.747	ppm	
126) p-(Dimethylamino)azobe...	11.069	120	262620	82.011	ppm	94
127) Chlorobenzilate	11.128	139	266806	80.077	ppm	80
128) Butyl benzyl phthalate	11.572	149	438269	72.322	ppm	94
129) 3,3-Dimethylbenzidine	11.551	212	583136	82.194	ppm	99
130) 2-Acetylaminofluorene	11.952	181	403397	85.771	ppm	100
131) 3,3'-Dichlorobenzidine	12.444	252	350978	82.650	ppm	98
132) Benzo(a)anthracene	12.476	228	897513	79.091	ppm	98
133) Chrysene	12.540	228	857904	79.978	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.567	149	632699	75.877	ppm	100
136) Di-n-octyl phthalate	13.910	149	1027372	72.865	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.626	256	455195	83.617	ppm	97
138) Benzo(b)Fluoranthene	14.632	252	966208	79.640	ppm	99
139) Benzo(k)fluoranthene	14.690	252	924831	80.094	ppm	99
140) Benzo(a)pyrene	15.332	252	853392	82.401	ppm	99
141) 3-Methylcholanthrene	16.092	268	474987	80.779	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.392	276	751561	77.350	ppm	92
143) Dibenz(a,h)anthracene	17.445	278	844188	79.386	ppm	97
144) Benzo(g,h,i)perylene	17.862	276	692587	71.739	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\030618\  
Data File : BN230.D  
Acq On : 6 Mar 2018 3:59 pm  
Operator : J.Misiurewicz  
Sample : ICV #1  
Misc : Initial Calibration 8270D/625  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 11:08:59 2018  
Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
Quant Title : 8270 BNA ANALYSIS  
QLast Update : Fri Mar 09 10:58:56 2018  
Response via : Initial Calibration



Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN231.D  
 Acq On : 6 Mar 2018 4:28 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #2  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 09 11:10:39 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR d4-1,4-Dichlorobenzene	40.000	40.000	0.0	99	0.00
2	TM Pyridine	50.000	0.000	100.0#	0	-2.85#
3	TM N-Nitrosodimethylamine	50.000	0.000	100.0#	0	-2.82#
4	TM 2-Picoline	50.000	0.000	100.0#	0	-3.37#
5	TM N-Nitrosomethylamine	50.000	0.000	100.0#	0	-3.44#
6	TM Methyl Methansulfonate	50.000	0.000	100.0#	0	-3.65#
7	S SURR1,2-FLUOROPHENOL	50.000	0.000	100.0#	0	-3.78#
8	TM N-Nitrosodiethylamine	50.000	0.000	100.0#	0	-3.96#
9	TM Ethyl Mathanesulfonate	50.000	0.000	100.0#	0	-4.18#
10	TM Benzaldehyde	50.000	54.132	-8.3	110	0.01
11	TM Aniline	50.000	0.000	100.0#	0	-4.56#
12	S SURR2,PHENOL-D6	50.000	0.000	100.0#	0	-4.50#
13	TMC Phenol	50.000	0.000	100.0#	0	-4.51#
14	TM bis(2-Clethyl)Ether	50.000	0.000	100.0#	0	-4.60#
15	TM Pentachloroethane	50.000	0.000	100.0#	0	-4.60#
16	TM 2-Chlorophenol	50.000	0.000	100.0#	0	-4.66#
17	TM 1,3-Diclbzence	50.000	0.000	100.0#	0	-4.79#
18	TMC 1,4-Dichlorobenzene	50.000	0.000	100.0#	0	-4.85#
19	TM 1,2-Diclbzence	50.000	0.000	100.0#	0	-4.99#
20	TM Benzyl Alcohol	50.000	0.000	100.0#	0	-4.95#
21	T 1-Methyl-2-pyrrolidinone	50.000	0.000	100.0#	0	-5.00#
22	TM 2,2'-oxybis(1-Chloropropane	50.000	0.000	100.0#	0	-5.06#
23	TM 2-Methylphenol	50.000	0.000	100.0#	0	-5.04#
24	TM 3+4-Methylphenol	50.000	0.000	100.0#	0	-5.18#
25	TM Acetophenone	50.000	0.000	100.0#	0	-5.19#
26	TMP N-Nitroso-Di-n-propylamine	50.000	0.000	100.0#	0	-5.18#
27	TM N-Nitrosopyrrolidine	50.000	0.000	100.0#	0	-5.18#
28	TM N-Nitrosomorpholine	50.000	0.000	100.0#	0	-5.20#
29	TM o-Toluidine	50.000	0.000	100.0#	0	-5.22#
30	TM Hexachloroethane	50.000	0.000	100.0#	0	-5.29#
31	TM o,o,o-Triethylphosphorothio	50.000	0.000	100.0#	0	-5.73#
32	TM Alpha-terpinol	50.000	0.000	100.0#	0	-6.02#
33	IR d8-Naphthalene	40.000	40.000	0.0	105	0.00
34	S SURR4,NITROBENZENE-D5	50.000	4.396	91.2#	9	-0.04
35	TM Nitrobenzene	50.000	0.000	100.0#	0	-5.35#
36	TM N-Nitrosopiperidine	50.000	0.000	100.0#	0	-5.49#
37	TM Isophorone	50.000	0.000	100.0#	0	-5.57#
38	TCM 2-Nitrophenol	50.000	0.000	100.0#	0	-5.64#
39	TM Benzoic Acid	50.000	43.685	12.6	96	0.00
40	TM 2,4-Dimethylphenol	50.000	0.000	100.0#	0	-5.67#
41	TM bis(-2-Chloroethoxy)Methane	50.000	0.000	100.0#	0	-5.76#
42	TCM 2,4-Dichlorophenol	50.000	0.000	100.0#	0	-5.87#
43	TM a,a-Dimethylphenethylamine	50.000	0.000	100.0#	0	-5.95#
44	TM 1,2,4-Trichlorobenzene	50.000	0.000	100.0#	0	-5.95#
45	TM Naphthalene	50.000	0.000	100.0#	0	-6.02#
46	TM 4-Chloroaniline	50.000	0.000	100.0#	0	-6.07#
47	TM 2,6-Dichlorophenol	50.000	0.000	100.0#	0	-6.08#
48	TCM Hexachlorobutadiene	50.000	0.000	100.0#	0	-6.13#
49	TM Hexachloropropene	50.000	0.000	100.0#	0	-6.10#
50	TMC 4-Chloro-3-methylphenol	50.000	0.000	100.0#	0	-6.54#
51	TM N-N-di-n-butylamine	50.000	0.000	100.0#	0	-6.39#

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN231.D  
 Acq On : 6 Mar 2018 4:28 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #2  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 09 11:10:39 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	TM	Caprolactam	50.000	0.000	100.0#	0 -6.41#
53	TM	p-Phenylenediamine	50.000	0.000	100.0#	0 -6.43#
54	TM	Safrole	50.000	0.000	100.0#	0 -6.60#
55	TM	2-Methylnaphthalene	50.000	0.000	100.0#	0 -6.69#
56	TM	1-Methylnaphthalene	50.000	0.000	100.0#	0 -6.79#
57	IR	d10-Acenaphthene	40.000	40.000	0.0	88 0.00
58	TPM	Hexachlorocyclopentadiene	50.000	0.000	100.0#	0 -6.84#
59	TM	1,2,4,5-Tetrachlorobenzene	50.000	0.000	100.0#	0 -6.85#
60	TM	1,2,3,4-Tetrachlorobenzene	50.000	0.000	100.0#	0 -7.13#
61	TCM	2,4,6-Trichlorophenol	50.000	0.000	100.0#	0 -6.96#
62	TM	2,4,5-Trichlorophenol	50.000	0.000	100.0#	0 -7.00#
63	S	SURR5,2-FLUOROBIPHENYL	50.000	0.000	100.0#	0 -7.04#
64	TM	Isosafrole	50.000	0.000	100.0#	0 -7.10#
65	TM	1,1'-Biphenyl	50.000	0.000	100.0#	0 -7.14#
66	TM	2-Chloronaphthalene	50.000	0.000	100.0#	0 -7.16#
67	TM	2-Nitroaniline	50.000	0.000	100.0#	0 -7.26#
68	TM	1,4-Naphthoquinone	50.000	0.000	100.0#	0 -7.34#
69	TM	m-Dinitrobenzene	50.000	0.000	100.0#	0 -7.47#
70	TM	Acenaphthylene	50.000	0.000	100.0#	0 -7.57#
71	TM	Dimethyl phthalate	50.000	0.000	100.0#	0 -7.44#
72	TM	2,6-Dinitrotoluene	50.000	0.000	100.0#	0 -7.50#
73	TMC	Acenaphthene	50.000	0.000	100.0#	0 -7.74#
74	TM	3-Nitroaniline	50.000	0.000	100.0#	0 -7.67#
75	TPM	2,4-Dinitrophenol	50.000	0.000	100.0#	0 -7.77#
76	TM	Dibenzofuran	50.000	0.000	100.0#	0 -7.91#
77	TM	2,4-Dinitrotoluene	50.000	0.000	100.0#	0 -7.90#
78	TMP	4-Nitrophenol	50.000	0.000	100.0#	0 -7.84#
79	TM	Pentachlorobenzene	50.000	0.000	100.0#	0 -7.87#
80	TM	1-Naphthylamine	50.000	0.000	100.0#	0 -7.99#
81	TM	2-Naphthylamine	50.000	0.000	100.0#	0 -8.07#
82	TM	2,3,4,6-Tetrachlorophenol	50.000	0.000	100.0#	0 -8.03#
83	TM	Fluorene	50.000	0.000	100.0#	0 -8.25#
84	TM	4-Chlorophenyl-phenylether	50.000	0.000	100.0#	0 -8.25#
85	TM	Diethylphthalate	50.000	0.000	100.0#	0 -8.13#
86	TM	4-Nitroaniline	50.000	0.000	100.0#	0 -8.27#
87	TM	5-Nitro-o-toluidine	50.000	0.000	100.0#	0 -8.26#
88	S	SURR3,2,4,6-TRIBROMOPHENOL	50.000	0.000	100.0#	0 -8.49#
89	TM	Sulfotepp	50.000	0.000	100.0#	0 -8.51#
90	TM	Octachlorocyclopentene	50.000	0.000	100.0#	0 -8.50#
91	IR	d10-Phenanthrene	40.000	40.000	0.0	90 0.00
92	TM	Thionazin	50.000	0.000	100.0#	0 -8.21#
93	TM	4,6-Dinitro-2-methylphenol	50.000	0.000	100.0#	0 -8.30#
94	TM	Diphenylamine	100.000	0.000	100.0#	0 -8.36#
95	TM	1,2 Diphenylhydrazine	50.000	0.000	100.0#	0 -8.40#
96	TCM	N-Nitrosodiphenylamine	100.000	0.000	100.0#	0 -8.36#
97	TM	1,3,5-Trinitrobenzene	50.000	0.000	100.0#	0 -8.63#
98	TM	Diallate	50.000	0.000	100.0#	0 -8.64#
99	TM	Phorate	50.000	0.000	100.0#	0 -8.65#
100	TM	Phenacetin	50.000	0.000	100.0#	0 -8.67#
101	TM	4-Bromophenyl-phenylether	50.000	0.000	100.0#	0 -8.73#

Data Path : I:\ACQUDATA\5973D\Data\030618\  
 Data File : BN231.D  
 Acq On : 6 Mar 2018 4:28 pm  
 Operator : J.Misiurewicz  
 Sample : ICV #2  
 Misc : Initial Calibration 8270D/625  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 09 11:10:39 2018  
 Quant Method : I:\ACQUDATA\5973D\Methods\8270030618D.M  
 Quant Title : 8270 BNA ANALYSIS  
 QLast Update : Fri Mar 09 10:58:56 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	TM Hexachlorobenzene	50.000	0.000	100.0#	0	-8.79#
103	TM Dimethoate	50.000	0.000	100.0#	0	-8.83#
104	TM Atrazine	50.000	0.000	100.0#	0	-8.89#
105	TCM Pentachlorophenol	50.000	0.000	100.0#	0	-8.99#
106	TM 4-Aminobiphenyl	50.000	0.000	100.0#	0	-8.99#
107	TM Pentachloronitrobenzene	50.000	0.000	100.0#	0	-9.00#
108	TM Pronamide	50.000	0.000	100.0#	0	-9.04#
109	TM Dinoseb	50.000	0.000	100.0#	0	-9.16#
110	TM Disulfoton	50.000	0.000	100.0#	0	-9.17#
111	TM Phenanthrene	50.000	0.000	100.0#	0	-9.20#
112	TM Anthracene	50.000	0.000	100.0#	0	-9.25#
113	TM Carbazole	50.000	0.000	100.0#	0	-9.41#
114	TM Di-n-butylphthalate	50.000	0.000	100.0#	0	-9.74#
115	TM 4-Nitroquinoline-1-oxide	50.000	0.000	100.0#	0	-9.97#
116	TCM Fluoranthene	50.000	0.000	100.0#	0	-10.42#
117	IR d12-Chrysene	40.000	40.000	0.0	94	0.00
118	TM Methyl Parathion	50.000	0.000	100.0#	0	-9.54#
119	TM Ethyl Parathion	50.000	0.000	100.0#	0	-9.93#
120	TM Methapyrilene	50.000	0.000	100.0#	0	-10.04#
121	TM Isodrin	50.000	0.000	100.0#	0	-10.25#
122	TM Benzidine	50.000	0.000	100.0#	0	-10.58#
123	TM Pyrene	50.000	0.000	100.0#	0	-10.69#
124	S SURR6, TERPHENYL-D14	50.000	0.000	100.0#	0	-10.88#
125	TM Aramite	50.000	0.000	100.0#	0	-10.95#
126	TM p-(Dimethylamino)azobenzene	50.000	0.000	100.0#	0	-11.07#
127	TM Chlorobenzilate	50.000	0.000	100.0#	0	-11.13#
128	TM Butyl benzyl phthalate	50.000	0.000	100.0#	0	-11.57#
129	TM 3,3-Dimethylbenzidine	50.000	0.000	100.0#	0	-11.55#
130	TM 2-Acetylaminofluorene	50.000	0.000	100.0#	0	-11.95#
131	TM 3,3'-Dichlorobenzidine	50.000	0.000	100.0#	0	-12.44#
132	TM Benzo(a)anthracene	50.000	0.000	100.0#	0	-12.47#
133	TM Chrysene	50.000	0.000	100.0#	0	-12.54#
134	TM bis(2-Ethylhexyl)phthalate	50.000	0.000	100.0#	0	-12.56#
135	IR d12-Perylene	40.000	40.000	0.0	94	0.00
136	TCM Di-n-octyl phthalate	50.000	0.000	100.0#	0	-13.91#
137	TM 7,12-Dimethylbenz(a)anthrac	50.000	0.000	100.0#	0	-14.62#
138	TM Benzo(b)Fluoranthene	50.000	0.000	100.0#	0	-14.62#
139	TM Benzo(k)fluoranthene	50.000	0.000	100.0#	0	-14.68#
140	TCM Benzo(a)pyrene	50.000	0.000	100.0#	0	-15.32#
141	TM 3-Methylcholanthrene	50.000	0.000	100.0#	0	-16.09#
142	TM Indeno(1,2,3-cd)Pyrene	50.000	0.000	100.0#	0	-17.39#
143	TM Dibenz(a,h)anthracene	50.000	0.000	100.0#	0	-17.44#
144	TM Benzo(g,h,i)perylene	50.000	0.000	100.0#	0	-17.86#

(#) = Out of Range

SPCC's out = 0 CCC's out = 13

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1802137  
Calibration Date: 3/6/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800027  
Instrument ID: R-MS-54

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1800027-01	2.5 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN222.D	03/06/2018 12:07
02	RC1800027-02	5.0 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN223.D	03/06/2018 12:35
03	RC1800027-03	10 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN224.D	03/06/2018 13:03
04	RC1800027-04	50 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN225.D	03/06/2018 13:32
05	RC1800027-05	80 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN226.D	03/06/2018 14:01
06	RC1800027-06	100 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN227.D	03/06/2018 14:29
07	RC1800027-07	120 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN228.D	03/06/2018 14:58
08	RC1800027-08	160 ppm STD	I:\ACQUADATA\5973D\Data\030618\BN229.D	03/06/2018 15:31

Analyte

1,2,4,5-Tetrachlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5897	02	5.000	0.6196	03	10.000	0.5911	04	50.000	0.5826
05	80.000	0.5874	06	100.000	0.5907	07	120.000	0.6062	08	160.000	0.5937

2,3,4,6-Tetrachlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.2472	03	10.000	0.2519	04	50.000	0.27	05	80.000	0.2916
06	100.000	0.3002	07	120.000	0.3129	08	160.000	0.3141			

2,4,5-Trichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3364	02	5.000	0.3588	03	10.000	0.389	04	50.000	0.3946
05	80.000	0.3726	06	100.000	0.3792	07	120.000	0.3905	08	160.000	0.3867

2,4,6-Trichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3117	02	5.000	0.3321	03	10.000	0.3561	04	50.000	0.3753
05	80.000	0.3675	06	100.000	0.3765	07	120.000	0.3843	08	160.000	0.3804

2,4-Dichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2427	02	5.000	0.2667	03	10.000	0.2752	04	50.000	0.2723
05	80.000	0.2746	06	100.000	0.272	07	120.000	0.2822	08	160.000	0.2753

2,4-Dimethylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3188	02	5.000	0.3322	03	10.000	0.3461	04	50.000	0.3273
05	80.000	0.3301	06	100.000	0.326	07	120.000	0.34	08	160.000	0.3286

2,4-Dinitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.08261	04	50.000	0.1178	05	80.000	0.1401	06	100.000	0.1519
07	120.000	0.1611	08	160.000	0.1694						

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1802137  
Calibration Date: 3/6/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800027  
Instrument ID: R-MS-54

Signal ID: 1

Analyte

2,4-Dinitrotoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.3439	03	10.000	0.3291	04	50.000	0.393	05	80.000	0.4051
06	100.000	0.4269	07	120.000	0.4301	08	160.000	0.4267			

2,6-Dinitrotoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2575	02	5.000	0.2787	03	10.000	0.3152	04	50.000	0.2981
05	80.000	0.2911	06	100.000	0.3027	07	120.000	0.3163	08	160.000	0.3144

2-Chloronaphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.119	02	5.000	1.176	03	10.000	1.209	04	50.000	1.163
05	80.000	1.16	06	100.000	1.161	07	120.000	1.191	08	160.000	1.141

2-Chlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.316	02	5.000	1.36	03	10.000	1.401	04	50.000	1.364
05	80.000	1.401	06	100.000	1.375	07	120.000	1.452	08	160.000	1.39

2-Methylnaphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6653	02	5.000	0.6908	03	10.000	0.6752	04	50.000	0.6506
05	80.000	0.6508	06	100.000	0.6409	07	120.000	0.664	08	160.000	0.6342

2-Methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.19	02	5.000	1.215	03	10.000	1.173	04	50.000	1.192
05	80.000	1.208	06	100.000	1.168	07	120.000	1.249	08	160.000	1.202

2-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2391	02	5.000	0.29	03	10.000	0.284	04	50.000	0.3
05	80.000	0.2936	06	100.000	0.2967	07	120.000	0.3093	08	160.000	0.3004

2-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1566	02	5.000	0.1718	03	10.000	0.1769	04	50.000	0.1818
05	80.000	0.1893	06	100.000	0.1889	07	120.000	0.1946	08	160.000	0.1959

3,3'-Dichlorobenzidine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4192	02	5.000	0.3942	03	10.000	0.4048	04	50.000	0.4697
05	80.000	0.475	06	100.000	0.472	07	120.000	0.484	08	160.000	0.4663

3- and 4-Methylphenol Coelution

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.17	02	5.000	1.274	03	10.000	1.307	04	50.000	1.239
05	80.000	1.268	06	100.000	1.241	07	120.000	1.306	08	160.000	1.366



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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1802137  
Calibration Date: 3/6/2018

Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1800027  
Instrument ID: R-MS-54

Signal ID: 1

Analyte

3-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2948	02	5.000	0.3211	03	10.000	0.3184	04	50.000	0.3244
05	80.000	0.342	06	100.000	0.3485	07	120.000	0.3586	08	160.000	0.3644

4,6-Dinitro-2-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1104	04	50.000	0.1399	05	80.000	0.1516	06	100.000	0.1511
07	120.000	0.1569	08	160.000	0.1635						

4-Bromophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2612	02	5.000	0.246	03	10.000	0.2459	04	50.000	0.2114
05	80.000	0.2061	06	100.000	0.2019	07	120.000	0.2098	08	160.000	0.2128

4-Chloro-3-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2734	02	5.000	0.2596	03	10.000	0.2675	04	50.000	0.2795
05	80.000	0.276	06	100.000	0.2716	07	120.000	0.2807	08	160.000	0.2724

4-Chloroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4211	02	5.000	0.4058	03	10.000	0.4191	04	50.000	0.4024
05	80.000	0.4043	06	100.000	0.3937	07	120.000	0.4089	08	160.000	0.3948

4-Chlorophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6328	02	5.000	0.6366	03	10.000	0.6317	04	50.000	0.6001
05	80.000	0.5557	06	100.000	0.5621	07	120.000	0.5638	08	160.000	0.5397

4-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.343	03	10.000	0.3591	04	50.000	0.39	05	80.000	0.3891
06	100.000	0.3838	07	120.000	0.4018	08	160.000	0.3995			

4-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.1852	03	10.000	0.1922	04	50.000	0.2177	05	80.000	0.2246
06	100.000	0.2337	07	120.000	0.2342	08	160.000	0.2203			

Acenaphthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.277	02	5.000	1.263	03	10.000	1.283	04	50.000	1.262
05	80.000	1.222	06	100.000	1.246	07	120.000	1.259	08	160.000	1.211

Acenaphthylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.751	02	5.000	1.848	03	10.000	1.884	04	50.000	1.86
05	80.000	1.817	06	100.000	1.845	07	120.000	1.89	08	160.000	1.809

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QA/QC Report

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Signal ID: 1

Analyte

Acetophenone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.788	02	5.000	1.777	03	10.000	1.901	04	50.000	1.779
05	80.000	1.813	06	100.000	1.753	07	120.000	1.849	08	160.000	1.791

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.089	02	5.000	1.108	03	10.000	1.119	04	50.000	1.144
05	80.000	1.128	06	100.000	1.116	07	120.000	1.139	08	160.000	1.112

Atrazine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09553	02	5.000	0.08575	03	10.000	0.1153	04	50.000	0.1087
05	80.000	0.1053	06	100.000	0.1032	07	120.000	0.09875	08	160.000	0.09407

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.188	02	5.000	1.143	03	10.000	1.191	04	50.000	1.221
05	80.000	1.208	06	100.000	1.209	07	120.000	1.235	08	160.000	1.185

Benzaldehyde

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.8514	02	10.000	0.8589	03	20.000	0.9177	04	50.000	0.8331
05	80.000	0.8664	06	100.000	0.8169	07	120.000	0.8526			

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9063	02	5.000	0.9403	03	10.000	1.008	04	50.000	1.071
05	80.000	1.086	06	100.000	1.082	07	120.000	1.096	08	160.000	1.099

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.117	02	5.000	1.042	03	10.000	1.194	04	50.000	1.256
05	80.000	1.251	06	100.000	1.264	07	120.000	1.291	08	160.000	1.296

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.027	02	5.000	1.049	03	10.000	1.127	04	50.000	0.9876
05	80.000	0.9384	06	100.000	0.8889	07	120.000	0.9054	08	160.000	0.8043

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.109	02	5.000	1.082	03	10.000	1.156	04	50.000	1.194
05	80.000	1.19	06	100.000	1.169	07	120.000	1.185	08	160.000	1.155

Biphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.513	02	5.000	1.585	03	10.000	1.543	04	50.000	1.485
05	80.000	1.484	06	100.000	1.509	07	120.000	1.519	08	160.000	1.47

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QA/QC Report

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Signal ID: 1

Analyte

2,2'-Oxybis(1-chloropropane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.294	02	5.000	1.279	03	10.000	1.184	04	50.000	1.145
05	80.000	1.169	06	100.000	1.116	07	120.000	1.204	08	160.000	1.127

Bis(2-chloroethoxy)methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3701	02	5.000	0.3536	03	10.000	0.3768	04	50.000	0.3549
05	80.000	0.367	06	100.000	0.3543	07	120.000	0.3652	08	160.000	0.3626

Bis(2-chloroethyl) Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.182	02	5.000	1.2	03	10.000	1.192	04	50.000	1.151
05	80.000	1.167	06	100.000	1.11	07	120.000	1.178	08	160.000	1.142

Bis(2-ethylhexyl) Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.808	02	5.000	0.8811	03	10.000	0.8175	04	50.000	0.9059
05	80.000	0.9123	06	100.000	0.8956	07	120.000	0.9314	08	160.000	0.8879

Butyl Benzyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6323	02	5.000	0.6132	03	10.000	0.6301	04	50.000	0.6464
05	80.000	0.6562	06	100.000	0.6478	07	120.000	0.6569	08	160.000	0.6332

Caprolactam

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.09307	02	5.000	0.1048	03	10.000	0.1057	04	50.000	0.1017
05	80.000	0.1015	06	100.000	0.09655	07	120.000	0.1047	08	160.000	0.1032

Carbazole

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.95	02	5.000	1.054	03	10.000	1.199	04	50.000	1.197
05	80.000	1.146	06	100.000	1.138	07	120.000	1.16	08	160.000	1.127

Chrysene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.146	02	5.000	1.111	03	10.000	1.154	04	50.000	1.134
05	80.000	1.133	06	100.000	1.122	07	120.000	1.153	08	160.000	1.103

Di-n-butyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.17	02	5.000	1.323	03	10.000	1.49	04	50.000	1.542
05	80.000	1.508	06	100.000	1.454	07	120.000	1.466	08	160.000	1.378

Di-n-octyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	1.082	03	10.000	1.26	04	50.000	1.473	05	80.000	1.512
06	100.000	1.496	07	120.000	1.525	08	160.000	1.525			

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QA/QC Report

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**Calibration Date:** 3/6/2018

**Initial Calibration Summary**  
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**Signal ID:** 1

**Analyte**

**Dibenz(a,h)anthracene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.036	02	5.000	1.02	03	10.000	1.092	04	50.000	1.103
05	80.000	1.088	06	100.000	1.061	07	120.000	1.078	08	160.000	1.031

**Dibenzofuran**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.625	02	5.000	1.701	03	10.000	1.722	04	50.000	1.658
05	80.000	1.592	06	100.000	1.61	07	120.000	1.625	08	160.000	1.562

**Diethyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.334	02	5.000	1.458	03	10.000	1.286	04	50.000	1.324
05	80.000	1.325	06	100.000	1.354	07	120.000	1.415	08	160.000	1.385

**Dimethyl Phthalate**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.38	02	5.000	1.451	03	10.000	1.414	04	50.000	1.308
05	80.000	1.269	06	100.000	1.297	07	120.000	1.343	08	160.000	1.345

**Fluoranthene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.065	02	5.000	1.185	03	10.000	1.333	04	50.000	1.331
05	80.000	1.284	06	100.000	1.246	07	120.000	1.265	08	160.000	1.219

**Fluorene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.353	02	5.000	1.388	03	10.000	1.407	04	50.000	1.336
05	80.000	1.24	06	100.000	1.256	07	120.000	1.282	08	160.000	1.255

**Hexachlorobenzene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2917	02	5.000	0.2806	03	10.000	0.3243	04	50.000	0.2628
05	80.000	0.2608	06	100.000	0.2599	07	120.000	0.2657	08	160.000	0.2719

**Hexachlorobutadiene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1831	02	5.000	0.1775	03	10.000	0.1842	04	50.000	0.1718
05	80.000	0.18	06	100.000	0.172	07	120.000	0.1775	08	160.000	0.1765

**Hexachlorocyclopentadiene**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3177	02	5.000	0.3027	03	10.000	0.3432	04	50.000	0.3507
05	80.000	0.3637	06	100.000	0.3729	07	120.000	0.3722	08	160.000	0.3767

**Hexachloroethane**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5674	02	5.000	0.6112	03	10.000	0.6069	04	50.000	0.5839
05	80.000	0.6016	06	100.000	0.5803	07	120.000	0.6144	08	160.000	0.5884

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QA/QC Report

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Analyte

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9658	02	5.000	0.9715	03	10.000	1.021	04	50.000	0.9979
05	80.000	0.9764	06	100.000	0.9708	07	120.000	0.9676	08	160.000	0.9051

Isophorone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5731	02	5.000	0.5961	03	10.000	0.5942	04	50.000	0.6027
05	80.000	0.5989	06	100.000	0.5801	07	120.000	0.5938	08	160.000	0.5878

N-Nitrosodi-n-propylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9492	02	5.000	0.8798	03	10.000	0.9056	04	50.000	0.8755
05	80.000	0.8984	06	100.000	0.8672	07	120.000	0.9017	08	160.000	0.8803

N-Nitrosodiphenylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	5.000	0.6331	02	10.000	0.7055	03	20.000	0.6975	04	100.000	0.5807
05	160.000	0.5855	06	200.000	0.5881	07	240.000	0.5957	08	320.000	0.5917

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.086	02	5.000	1.058	03	10.000	1.026	04	50.000	0.9551
05	80.000	0.9788	06	100.000	0.9593	07	120.000	0.971	08	160.000	0.9461

Nitrobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3449	02	5.000	0.3222	03	10.000	0.3316	04	50.000	0.3344
05	80.000	0.3387	06	100.000	0.3307	07	120.000	0.3431	08	160.000	0.3396

Pentachlorophenol (PCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1332	04	50.000	0.1683	05	80.000	0.1631	06	100.000	0.1756
07	120.000	0.1854	08	160.000	0.1868						

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.146	02	5.000	1.144	03	10.000	1.16	04	50.000	1.146
05	80.000	1.109	06	100.000	1.097	07	120.000	1.127	08	160.000	1.093

Phenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.527	02	5.000	1.605	03	10.000	1.67	04	50.000	1.57
05	80.000	1.611	06	100.000	1.581	07	120.000	1.677	08	160.000	1.585

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.122	02	5.000	1.158	03	10.000	1.185	04	50.000	1.273
05	80.000	1.243	06	100.000	1.228	07	120.000	1.247	08	160.000	1.176

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QA/QC Report

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Signal ID: 1

Analyte

2,4,6-Tribromophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2093	02	5.000	0.2043	03	10.000	0.2233	04	50.000	0.2153
05	80.000	0.2357	06	100.000	0.2404	07	120.000	0.2542	08	160.000	0.2588

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.387	02	5.000	1.403	03	10.000	1.401	04	50.000	1.357
05	80.000	1.356	06	100.000	1.373	07	120.000	1.399	08	160.000	1.354

2-Fluorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.231	02	5.000	1.263	03	10.000	1.35	04	50.000	1.327
05	80.000	1.365	06	100.000	1.331	07	120.000	1.43	08	160.000	1.368

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3165	02	5.000	0.3265	03	10.000	0.3354	04	50.000	0.3294
05	80.000	0.3337	06	100.000	0.3295	07	120.000	0.3417	08	160.000	0.3396

Phenol-d6

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.496	02	5.000	1.606	03	10.000	1.639	04	50.000	1.602
05	80.000	1.638	06	100.000	1.606	07	120.000	1.702	08	160.000	1.632

Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.844	02	5.000	0.9031	03	10.000	0.8838	04	50.000	0.9224
05	80.000	0.9195	06	100.000	0.8963	07	120.000	0.9209	08	160.000	0.8844

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Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,2,4,5-Tetrachlorobenzene	TRG	Average RF	% RSD	2.0	20	0.5951	0.010
2,3,4,6-Tetrachlorophenol	TRG	Average RF	% RSD	9.8	20	0.284	0.010
2,4,5-Trichlorophenol	TRG	Average RF	% RSD	5.2	20	0.376	0.200
2,4,6-Trichlorophenol	TRG	Average RF	% RSD	7.2	20	0.3605	0.200
2,4-Dichlorophenol	TRG	Average RF	% RSD	4.4	20	0.2701	0.200
2,4-Dimethylphenol	TRG	Average RF	% RSD	2.6	20	0.3311	0.200
2,4-Dinitrophenol	TRG	Quadratic	COD	0.9967	0.99	0.1371	0.010
2,4-Dinitrotoluene	TRG	Average RF	% RSD	10.5	20	0.3935	0.200
2,6-Dinitrotoluene	TRG	Average RF	% RSD	6.9	20	0.2967	0.200
2-Chloronaphthalene	TRG	Average RF	% RSD	2.4	20	1.165	0.800
2-Chlorophenol	TRG	Average RF	% RSD	2.9	20	1.382	0.800
2-Methylnaphthalene	TRG	Average RF	% RSD	2.8	20	0.659	0.400
2-Methylphenol	TRG	Average RF	% RSD	2.1	20	1.2	0.700
2-Nitroaniline	TRG	Average RF	% RSD	7.5	20	0.2891	0.010
2-Nitrophenol	TRG	Average RF	% RSD	7.3	20	0.182	0.100
3,3'-Dichlorobenzidine	TRG	Average RF	% RSD	8.0	20	0.4481	0.010
3- and 4-Methylphenol Coelution	TRG	Average RF	% RSD	4.6	20	1.271	0.600
3-Nitroaniline	TRG	Average RF	% RSD	7.0	20	0.334	0.010
4,6-Dinitro-2-methylphenol	TRG	Average RF	% RSD	13.0	20	0.1456	0.010
4-Bromophenyl Phenyl Ether	TRG	Average RF	% RSD	10.2	20	0.2244	0.100
4-Chloro-3-methylphenol	TRG	Average RF	% RSD	2.5	20	0.2726	0.200
4-Chloroaniline	TRG	Average RF	% RSD	2.5	20	0.4063	0.010
4-Chlorophenyl Phenyl Ether	TRG	Average RF	% RSD	6.7	20	0.5903	0.400
4-Nitroaniline	TRG	Average RF	% RSD	5.7	20	0.3809	0.010
4-Nitrophenol	TRG	Average RF	% RSD	9.0	20	0.2154	0.010
Acenaphthene	TRG	Average RF	% RSD	2.0	20	1.253	0.900
Acenaphthylene	TRG	Average RF	% RSD	2.5	20	1.838	0.900
Acetophenone	TRG	Average RF	% RSD	2.6	20	1.807	0.010
Anthracene	TRG	Average RF	% RSD	1.6	20	1.119	0.700
Atrazine	TRG	Average RF	% RSD	9.2	20	0.1008	0.010
Benz(a)anthracene	TRG	Average RF	% RSD	2.3	20	1.198	0.800
Benzaldehyde	TRG	Average RF	% RSD	3.7	20	0.8567	0.010
Benzo(a)pyrene	TRG	Average RF	% RSD	7.3	20	1.036	0.700
Benzo(b)fluoranthene	TRG	Average RF	% RSD	7.5	20	1.214	0.700

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 3/6/2018

**Initial Calibration Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800027  
**Instrument ID:** R-MS-54

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	10.6	20	0.9658	0.500
Benzo(k)fluoranthene	TRG	Average RF	% RSD	3.5	20	1.155	0.700
Biphenyl	TRG	Average RF	% RSD	2.4	20	1.513	0.010
2,2'-Oxybis(1-chloropropane)	TRG	Average RF	% RSD	5.6	20	1.19	0.010
Bis(2-chloroethoxy)methane	TRG	Average RF	% RSD	2.3	20	0.363	0.300
Bis(2-chloroethyl) Ether	TRG	Average RF	% RSD	2.6	20	1.165	0.700
Bis(2-ethylhexyl) Phthalate	TRG	Average RF	% RSD	5.0	20	0.88	0.010
Butyl Benzyl Phthalate	TRG	Average RF	% RSD	2.3	20	0.6395	0.010
Caprolactam	TRG	Average RF	% RSD	4.4	20	0.1014	0.010
Carbazole	TRG	Average RF	% RSD	7.4	20	1.121	0.010
Chrysene	TRG	Average RF	% RSD	1.7	20	1.132	0.700
Di-n-butyl Phthalate	TRG	Average RF	% RSD	8.6	20	1.416	0.010
Di-n-octyl Phthalate	TRG	Average RF	% RSD	12.2	20	1.411	0.010
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	2.9	20	1.064	0.400
Dibenzofuran	TRG	Average RF	% RSD	3.3	20	1.637	0.800
Diethyl Phthalate	TRG	Average RF	% RSD	4.1	20	1.36	0.010
Dimethyl Phthalate	TRG	Average RF	% RSD	4.6	20	1.351	0.010
Fluoranthene	TRG	Average RF	% RSD	7.1	20	1.241	0.600
Fluorene	TRG	Average RF	% RSD	4.9	20	1.315	0.900
Hexachlorobenzene	TRG	Average RF	% RSD	7.9	20	0.2772	0.100
Hexachlorobutadiene	TRG	Average RF	% RSD	2.6	20	0.1778	0.010
Hexachlorocyclopentadiene	TRG	Average RF	% RSD	7.8	20	0.35	0.050
Hexachloroethane	TRG	Average RF	% RSD	2.8	20	0.5943	0.300
Indeno(1,2,3-cd)pyrene	TRG	Average RF	% RSD	3.4	20	0.972	0.500
Isophorone	TRG	Average RF	% RSD	1.7	20	0.5908	0.400
N-Nitrosodi-n-propylamine	TRG	Average RF	% RSD	2.9	20	0.8947	0.500
N-Nitrosodiphenylamine	TRG	Average RF	% RSD	8.3	20	0.6222	0.010
Naphthalene	TRG	Average RF	% RSD	5.3	20	0.9975	0.700
Nitrobenzene	TRG	Average RF	% RSD	2.2	20	0.3357	0.200
Pentachlorophenol (PCP)	TRG	Average RF	% RSD	11.7	20	0.1687	0.050
Phenanthrene	TRG	Average RF	% RSD	2.2	20	1.128	0.700
Phenol	TRG	Average RF	% RSD	3.1	20	1.603	0.800
Pyrene	TRG	Average RF	% RSD	4.3	20	1.204	0.600
2,4,6-Tribromophenol	SURR	Average RF	% RSD	8.9	20	0.2302	
2-Fluorobiphenyl	SURR	Average RF	% RSD	1.5	20	1.379	



**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 3/6/2018

**Initial Calibration Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800027  
**Instrument ID:** R-MS-54

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2-Fluorophenol	SURR	Average RF	% RSD	4.7	20	1.333	
Nitrobenzene-d5	SURR	Average RF	% RSD	2.4	20	0.3315	
Phenol-d6	SURR	Average RF	% RSD	3.6	20	1.615	
Terphenyl-d14	SURR	Average RF	% RSD	2.9	20	0.8968	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 3/6/2018

**Initial Calibration Verification Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800027  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800027-09	ICV #1	I:\ACQUDATA\5973D\Data\030618\BN230.D	03/06/2018 15:59
10	RC1800027-10	ICV #2	I:\ACQUDATA\5973D\Data\030618\BN231.D	03/06/2018 16:28

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	74.1	5.951E-1	5.512E-1	-7.381	±30	Average RF
2,3,4,6-Tetrachlorophenol	80.0	76.4	2.84E-1	2.712E-1	-4.502	±30	Average RF
2,4,5-Trichlorophenol	80.0	69.3	3.76E-1	3.257E-1	-13.371	±30	Average RF
2,4,6-Trichlorophenol	80.0	75.1	3.605E-1	3.386E-1	-6.074	±30	Average RF
2,4-Dichlorophenol	80.0	75.7	2.701E-1	2.556E-1	-5.374	±30	Average RF
2,4-Dimethylphenol	80.0	72.9	3.311E-1	3.018E-1	-8.863	±30	Average RF
2,4-Dinitrophenol	80.0	86.3	1.371E-1	1.525E-1	7.85	±30	Quadratic
2,4-Dinitrotoluene	80.0	85.6	3.935E-1	4.209E-1	6.97	±30	Average RF
2,6-Dinitrotoluene	80.0	81.9	2.967E-1	3.036E-1	2.33	±30	Average RF
2-Chloronaphthalene	80.0	75.7	1.165E0	1.102E0	-5.402	±30	Average RF
2-Chlorophenol	80.0	76.6	1.382E0	1.324E0	-4.252	±30	Average RF
2-Methylnaphthalene	80.0	71.5	6.59E-1	5.887E-1	-10.669	±30	Average RF
2-Methylphenol	80.0	73.6	1.2E0	1.104E0	-7.990	±30	Average RF
2-Nitroaniline	80.0	81.1	2.891E-1	2.931E-1	1.38	±30	Average RF
2-Nitrophenol	80.0	78.4	1.82E-1	1.784E-1	-1.989	±30	Average RF
3,3'-Dichlorobenzidine	80.0	82.7	4.481E-1	4.63E-1	3.31	±30	Average RF
3- and 4-Methylphenol Coelution	80.0	75.0	1.271E0	1.192E0	-6.215	±30	Average RF
3-Nitroaniline	80.0	79.6	3.34E-1	3.324E-1	-0.477	±30	Average RF
4,6-Dinitro-2-methylphenol	80.0	77.1	1.456E-1	1.404E-1	-3.572	±30	Average RF
4-Bromophenyl Phenyl Ether	80.0	73.3	2.244E-1	2.056E-1	-8.353	±30	Average RF
4-Chloro-3-methylphenol	80.0	74.4	2.726E-1	2.535E-1	-7.016	±30	Average RF
4-Chloroaniline	80.0	74.9	4.063E-1	3.803E-1	-6.394	±30	Average RF
4-Chlorophenyl Phenyl Ether	80.0	76.4	5.903E-1	5.634E-1	-4.561	±30	Average RF
4-Nitroaniline	80.0	79.7	3.809E-1	3.795E-1	-0.361	±30	Average RF
4-Nitrophenol	80.0	77.9	2.154E-1	2.098E-1	-2.594	±30	Average RF
Acenaphthene	80.0	76.0	1.253E0	1.19E0	-5.048	±30	Average RF
Acenaphthylene	80.0	79.0	1.838E0	1.816E0	-1.207	±30	Average RF
Acetophenone	80.0	78.8	1.807E0	1.78E0	-1.458	±30	Average RF
Anthracene	80.0	78.9	1.119E0	1.103E0	-1.424	±30	Average RF
Atrazine	80.0	80.5	1.008E-1	1.015E-1	0.652	±30	Average RF
Benz(a)anthracene	80.0	79.1	1.198E0	1.184E0	-1.136	±30	Average RF
Benzaldehyde	50.0	54.1	8.567E-1	9.275E-1	8.26	±30	Average RF
Benzo(a)pyrene	80.0	82.4	1.036E0	1.067E0	3.00	±30	Average RF
Benzo(b)fluoranthene	80.0	79.6	1.214E0	1.208E0	-0.450	±30	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 3/6/2018

**Initial Calibration Verification Summary  
Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800027  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800027-09	ICV #1	I:\ACQUDATA\5973D\Data\030618\BN230.D	03/06/2018 15:59
10	RC1800027-10	ICV #2	I:\ACQUDATA\5973D\Data\030618\BN231.D	03/06/2018 16:28

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzo(g,h,i)perylene	80.0	71.7	9.658E-1	8.661E-1	-10.326	±30	Average RF
Benzo(k)fluoranthene	80.0	80.1	1.155E0	1.156E0	0.117	±30	Average RF
Biphenyl	80.0	79.5	1.513E0	1.504E0	-0.626	±30	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	88.3	1.19E0	1.313E0	10.34	±30	Average RF
Bis(2-chloroethoxy)methane	80.0	75.5	3.63E-1	3.424E-1	-5.675	±30	Average RF
Bis(2-chloroethyl) Ether	80.0	79.9	1.165E0	1.164E0	-0.099	±30	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	75.9	8.8E-1	8.346E-1	-5.154	±30	Average RF
Butyl Benzyl Phthalate	80.0	72.3	6.395E-1	5.781E-1	-9.597	±30	Average RF
Caprolactam	80.0	75.0	1.014E-1	9.505E-2	-6.272	±30	Average RF
Carbazole	80.0	78.7	1.121E0	1.103E0	-1.631	±30	Average RF
Chrysene	80.0	80.0	1.132E0	1.132E0	-0.028	±30	Average RF
Di-n-butyl Phthalate	80.0	77.6	1.416E0	1.374E0	-2.987	±30	Average RF
Di-n-octyl Phthalate	80.0	72.9	1.411E0	1.285E0	-8.919	±30	Average RF
Dibenz(a,h)anthracene	80.0	79.4	1.064E0	1.056E0	-0.768	±30	Average RF
Dibenzofuran	80.0	75.8	1.637E0	1.55E0	-5.301	±30	Average RF
Diethyl Phthalate	80.0	71.6	1.36E0	1.218E0	-10.472	±30	Average RF
Dimethyl Phthalate	80.0	69.1	1.351E0	1.168E0	-13.571	±30	Average RF
Fluoranthene	80.0	80.5	1.241E0	1.248E0	0.584	±30	Average RF
Fluorene	80.0	76.0	1.315E0	1.249E0	-5.026	±30	Average RF
Hexachlorobenzene	80.0	69.3	2.772E-1	2.4E-1	-13.427	±30	Average RF
Hexachlorobutadiene	80.0	71.5	1.778E-1	1.59E-1	-10.602	±30	Average RF
Hexachlorocyclopentadiene	80.0	75.0	3.5E-1	3.28E-1	-6.290	±30	Average RF
Hexachloroethane	80.0	77.3	5.943E-1	5.739E-1	-3.419	±30	Average RF
Indeno(1,2,3-cd)pyrene	80.0	77.3	9.72E-1	9.398E-1	-3.313	±30	Average RF
Isophorone	80.0	84.2	5.908E-1	6.215E-1	5.20	±30	Average RF
N-Nitrosodi-n-propylamine	80.0	81.5	8.947E-1	9.111E-1	1.83	±30	Average RF
N-Nitrosodiphenylamine	160	154	6.222E-1	5.998E-1	-3.607	±30	Average RF
Naphthalene	80.0	74.0	9.975E-1	9.231E-1	-7.456	±30	Average RF
Nitrobenzene	80.0	82.2	3.357E-1	3.448E-1	2.71	±30	Average RF
Pentachlorophenol (PCP)	80.0	72.4	1.687E-1	1.528E-1	-9.458	±30	Average RF
Phenanthrene	80.0	76.5	1.128E0	1.078E0	-4.423	±30	Average RF
Phenol	80.0	77.4	1.603E0	1.551E0	-3.229	±30	Average RF
Pyrene	80.0	79.4	1.204E0	1.195E0	-0.704	±30	Average RF
2,4,6-Tribromophenol	80.0	76.0	2.302E-1	2.185E-1	-5.042	±30	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1802137  
**Calibration Date:** 3/6/2018

**Initial Calibration Verification Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800027  
**Instrument ID:** R-MS-54

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800027-09	ICV #1	I:\ACQUDATA\5973D\Data\030618\BN230.D	03/06/2018 15:59
10	RC1800027-10	ICV #2	I:\ACQUDATA\5973D\Data\030618\BN231.D	03/06/2018 16:28

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2-Fluorobiphenyl	80.0	72.6	1.379E0	1.251E0	-9.273	±30	Average RF
2-Fluorophenol	80.0	73.4	1.333E0	1.223E0	-8.219	±30	Average RF
Nitrobenzene-d5	80.0	71.2	3.315E-1	2.952E-1	-10.955	±30	Average RF
Phenol-d6	80.0	72.3	1.615E0	1.46E0	-9.626	±30	Average RF
Terphenyl-d14	80.0	73.6	8.968E-1	8.255E-1	-7.950	±30	Average RF

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY/5464S-18

Service Request: R1802137  
Date Analyzed: 03/14/18 08:15

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

Analysis Method: 8270D  
File ID: I:\ACQUADATA\5973D\Data\031418\BN216.D\  
Signal ID: 1

Calibration Date: 3/6/2018  
Calibration ID: RC1800027  
Analysis Lot: 583597  
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4,5-Tetrachlorobenzene	80.0	88.4	0.5951	0.6575	10.5	NA	±20	Average RF
2,3,4,6-Tetrachlorophenol	80.0	87.6	0.284	0.311	9.5	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	89.4	0.376	0.4201	11.7	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	91.3	0.3605	0.4113	14.1	NA	±20	Average RF
2,4-Dichlorophenol	80.0	88.0	0.2701	0.297	9.9	NA	±20	Average RF
2,4-Dimethylphenol	80.0	87.8	0.3311	0.3636	9.8	NA	±20	Average RF
2,4-Dinitrophenol	80.0	78.4	0.1371	0.1349	NA	-2.1	±20	Quadratic
2,4-Dinitrotoluene	80.0	90.1	0.3935	0.4433	12.6	NA	±20	Average RF
2,6-Dinitrotoluene	80.0	88.7	0.2967	0.3289	10.8	NA	±20	Average RF
2-Chloronaphthalene	80.0	87.6	1.165	1.2757	9.5	NA	±20	Average RF
2-Chlorophenol	80.0	87.4	1.3824	1.5104	9.3	NA	±20	Average RF
2-Methylnaphthalene	80.0	85.5	0.659	0.704	6.8	NA	±20	Average RF
2-Methylphenol	80.0	87.5	1.1996	1.3126	9.4	NA	±20	Average RF
2-Nitroaniline	80.0	88.0	0.2891	0.3181	10.0	NA	±20	Average RF
2-Nitrophenol	80.0	89.2	0.182	0.2028	11.5	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	88.9	0.4481	0.4982	11.2	NA	±20	Average RF
3- and 4-Methylphenol Coelution	80.0	87.4	1.2714	1.3884	9.2	NA	±20	Average RF
3-Nitroaniline	80.0	88.4	0.334	0.3691	10.5	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	86.7	0.1456	0.1577	8.3	NA	±20	Average RF
4-Bromophenyl Phenyl Ether	80.0	80.6	0.2244	0.2262	0.8	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	87.4	0.2726	0.2977	9.2	NA	±20	Average RF
4-Chloroaniline	80.0	83.8	0.4063	0.4258	4.8	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	88.3	0.5903	0.6513	10.3	NA	±20	Average RF
4-Nitroaniline	80.0	90.2	0.3809	0.4296	12.8	NA	±20	Average RF
4-Nitrophenol	80.0	86.6	0.2154	0.2333	8.3	NA	±20	Average RF
Acenaphthene	80.0	87.8	1.253	1.3751	9.7	NA	±20	Average RF
Acenaphthylene	80.0	89.1	1.838	2.048	11.4	NA	±20	Average RF
Acetophenone	80.0	88.5	1.8065	1.9977	10.6	NA	±20	Average RF
Anthracene	80.0	90.0	1.1194	1.259	12.5	NA	±20	Average RF
Atrazine	80.0	88.3	0.1008	0.1113	10.4	NA	±20	Average RF
Benz(a)anthracene	80.0	88.1	1.1975	1.319	10.1	NA	±20	Average RF
Benzaldehyde	80.0	85.1	0.8567	0.9116	6.4	NA	±20	Average RF
Benzo(a)pyrene	80.0	92.0	1.0361	1.1921	15.1	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	91.2	1.2137	1.3837	14.0	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	80.7	0.9658	0.9737	0.8	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	92.4	1.1551	1.3339	15.5	NA	±20	Average RF
Biphenyl	80.0	87.1	1.5133	1.6476	8.9	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	85.1	1.1897	1.2652	6.4	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	85.6	0.363	0.3885	7.0	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	87.5	1.1653	1.275	9.4	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	92.1	0.88	1.0129	15.1	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	89.9	0.6395	0.7183	12.3	NA	±20	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1802137  
**Date Analyzed:** 03/14/18 08:15

**Continuing Calibration Verification (CCV) Summary  
Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**File ID:** I:\ACQUADATA\5973D\Data\031418\BN216.D\  
**Signal ID:** 1

**Calibration Date:** 3/6/2018  
**Calibration ID:** RC1800027  
**Analysis Lot:** 583597  
**Units:** ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Caprolactam	80.0	85.0	0.1014	0.1077	6.2	NA	±20	Average RF
Carbazole	80.0	92.7	1.1212	1.2992	15.9	NA	±20	Average RF
Chrysene	80.0	87.4	1.132	1.2362	9.2	NA	±20	Average RF
Di-n-butyl Phthalate	80.0	94.2	1.4165	1.6683	17.8	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	96.7	1.4105	1.7043	20.8*	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	87.7	1.0638	1.1661	9.6	NA	±20	Average RF
Dibenzofuran	80.0	87.8	1.6368	1.7957	9.7	NA	±20	Average RF
Diethyl Phthalate	80.0	87.5	1.36	1.487	9.3	NA	±20	Average RF
Dimethyl Phthalate	80.0	83.5	1.3509	1.4102	4.4	NA	±20	Average RF
Fluoranthene	80.0	91.3	1.2409	1.4156	14.1	NA	±20	Average RF
Fluorene	80.0	86.4	1.3147	1.4195	8.0	NA	±20	Average RF
Hexachlorobenzene	80.0	83.1	0.2772	0.288	3.9	NA	±20	Average RF
Hexachlorobutadiene	80.0	86.3	0.1778	0.1919	7.9	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	90.7	0.35	0.3969	13.4	NA	±20	Average RF
Hexachloroethane	80.0	87.3	0.5943	0.6483	9.1	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	84.5	0.972	1.0272	5.7	NA	±20	Average RF
Isophorone	80.0	87.0	0.5908	0.6427	8.8	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	86.7	0.8947	0.9701	8.4	NA	±20	Average RF
N-Nitrosodiphenylamine	160	168	0.6222	0.6529	4.9	NA	±20	Average RF
Naphthalene	80.0	84.1	0.9975	1.0489	5.2	NA	±20	Average RF
Nitrobenzene	80.0	86.3	0.3357	0.3622	7.9	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	86.4	0.1687	0.1823	8.0	NA	±20	Average RF
Phenanthrene	80.0	87.7	1.1278	1.2364	9.6	NA	±20	Average RF
Phenol	80.0	87.1	1.6032	1.7458	8.9	NA	±20	Average RF
Pyrene	80.0	90.7	1.2039	1.3648	13.4	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	88.3	0.2302	0.2541	10.4	NA	±20	Average RF
2-Fluorobiphenyl	80.0	88.3	1.3788	1.5213	10.3	NA	±20	Average RF
2-Fluorophenol	80.0	91.2	1.333	1.5192	14.0	NA	±20	Average RF
Nitrobenzene-d5	80.0	85.5	0.3315	0.3542	6.8	NA	±20	Average RF
Phenol-d6	80.0	88.2	1.6151	1.7803	10.2	NA	±20	Average RF
Terphenyl-d14	80.0	90.7	0.8968	1.0173	13.4	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1802137

**Analysis Run Log**  
**Semivolatile Organic Compounds by GC/MS**

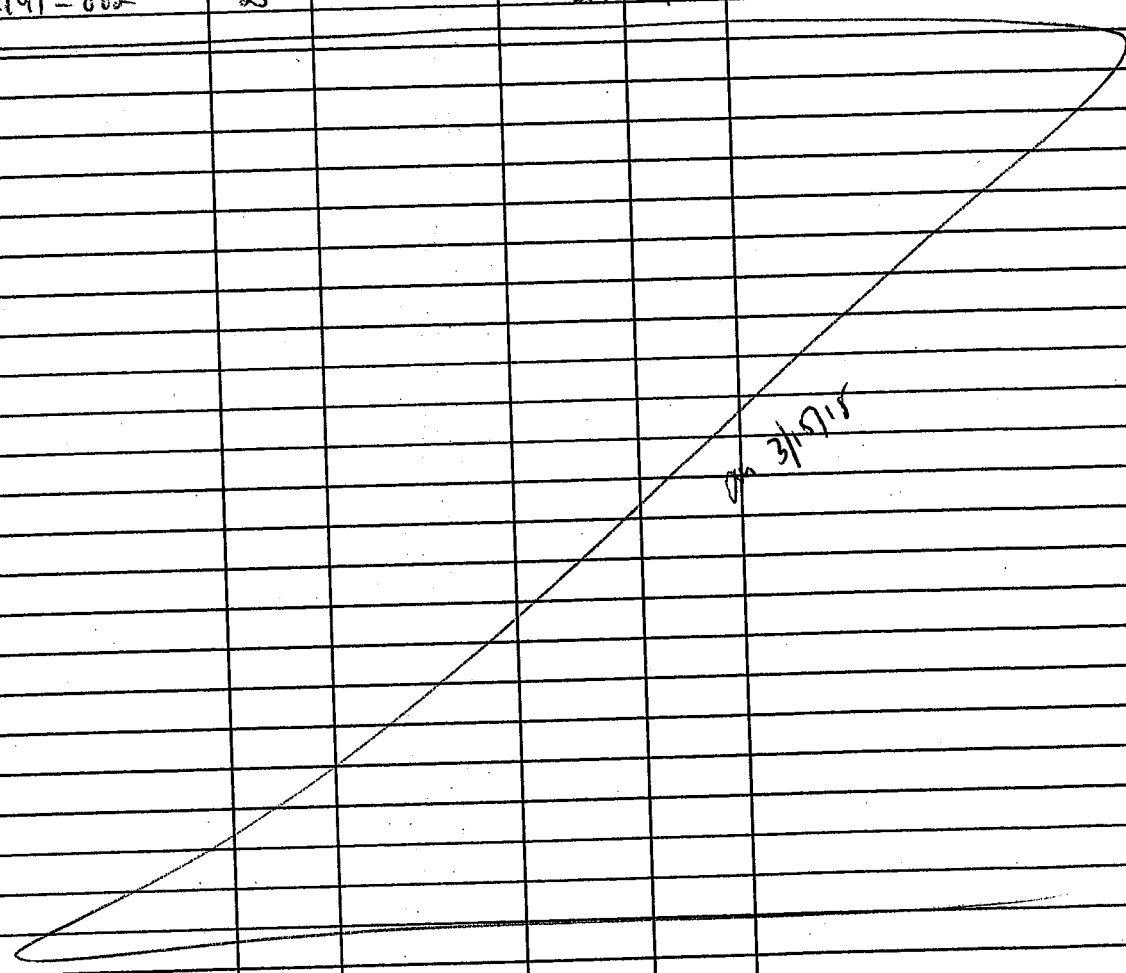
**Analysis Method:**

**Analysis Lot:**583597  
**Instrument ID:**R-MS-54

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\5973D\Data\031418\BN215.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	3/14/2018	07:36:00	
I:\ACQUDATA\5973D\Data\031418\BN216.D\Continuing Calibration Verification		RQ1802298-02	3/14/2018	08:15:00	
I:\ACQUDATA\5973D\Data\031418\BN217.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	3/14/2018	09:20:00	
I:\ACQUDATA\5973D\Data\031418\BN218.D\Method Blank		RQ1802190-01	3/14/2018	09:48:00	
I:\ACQUDATA\5973D\Data\031418\BN219.D\Lab Control Sample		RQ1802190-02	3/14/2018	10:16:00	
I:\ACQUDATA\5973D\Data\031418\BN220.D\Duplicate Lab Control Sample		RQ1802190-03	3/14/2018	10:44:00	
I:\ACQUDATA\5973D\Data\031418\BN221.D\MW-02		R1802137-002	3/14/2018	11:13:00	
I:\ACQUDATA\5973D\Data\031418\BN222.D\MW-02 MS		RQ1802190-04	3/14/2018	11:41:00	
I:\ACQUDATA\5973D\Data\031418\BN223.D\MW-02 DMS		RQ1802190-05	3/14/2018	12:10:00	
I:\ACQUDATA\5973D\Data\031418\BN224.D\MW-08		R1802137-008	3/14/2018	12:38:00	
I:\ACQUDATA\5973D\Data\031418\BN225.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	3/14/2018	13:07:00	
I:\ACQUDATA\5973D\Data\031418\BN226.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	3/14/2018	13:35:00	
I:\ACQUDATA\5973D\Data\031418\BN227.D\ZZZZZZZ	ZZZZZZZ	ZZZZZZZ	3/14/2018	14:03:00	

Analysis: 8770D Analyst: DMISURWIC Run Method: 8770D / N.e  
 Date: 3/14/18 Instr. 5973D R-MS-54 Quant Method: 877030018A.M  
 Syringes: \_\_\_\_\_ LIMS Run#: 583597

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	BIL			BND14	-	
2	TUM			15	Y	
3	CCU	40 $\mu$ L	188627 188628	16	Y	CC
4	CCU			17	Y	CC
5	RQ1802190-01	BIL	309817	18	Y	
6	-02	CC5	(#270)	19	Y	CC
7	↓ -03	CC5D		20	Y	CC
8	R1802137-002			21	Y	
9	RQ1802190-04			22	Y	CC
10	↓ -05			23	Y	CC
11	R1802137-008			24	Y	
12	R1802175-001			25	Y	
13	↓ -003			26	Y	
14	R1801941-002	25		27	Y	



All samples = 1 mL + 10  $\mu$ L Combined IS/Surr.; 188246

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_



Analysis: 870/625  
 Date: 3/6/18  
 Syringes: \_\_\_\_\_

Analyst: MISINREWER  
 Instr. 5973D R-MS-54

Run Method: 870D / TUNE  
 Quant Method: \_\_\_\_\_

LIMS Run#: \_\_\_\_\_

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			BN219	—	
2	Tune		184594	20	Y	
3	Blk			21	Y	
4	2.5 ppm STD		188444	22	Y	
5	5.0		45	23	Y	
6	10		46	24	Y	
7	50		47	25	Y	
8	50		48	26	Y	
9	100		49	27	Y	
10	120		50	28	Y	
11	160		51	29	Y	
12	ICV #1		53	30	Y	
13	#2		55	31	Y	
24	Solvent check			32	Y	

*(Handwritten note in table area: 527.03461825 27)*

*(Large handwritten mark across the bottom half of the table: 24 3/18)*

All samples = \_\_\_\_\_ mL + \_\_\_\_\_ uL Combined IS/Surr.;

Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Primary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Reagents: \_\_\_\_\_

Secondary: \_\_\_\_\_ exp: \_\_\_\_\_  
 Secondary: \_\_\_\_\_ exp: \_\_\_\_\_

ALS Group USA, Corp.  
dba ALS Environmental

Prep Summary Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:**R1802137

Semivolatile Organic Compounds by GC/MS

**Prep Method:** EPA 3510C  
**Analytical Method:** 8270D

**Extraction Lot:** 309817  
**Extraction Date:** 03/13/18 06:16

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
MW-02	R1802137-002	3/9/18	3/12/18	1060.0000	1 mL	
MW-08	R1802137-008	3/9/18	3/12/18	1060.0000	1 mL	
Method Blank	RQ1802190-01MB	NA	NA	1000 mL	1 mL	
Lab Control Sample	RQ1802190-02LCS	NA	NA	1000 mL	1 mL	
Duplicate Lab Control Sample	RQ1802190-03DLCS	NA	NA	1000 mL	1 mL	
Matrix Spike	RQ1802190-04MS	3/9/18	3/12/18	1060.0000	1 mL	
Duplicate Matrix Spike	RQ1802190-05DMS	3/9/18	3/12/18	1060.0000	1 mL	

# Preparation Information Benchsheet

Prep Run#: 309817  
 Team: Semivoa GCMS/JMISUREWICZ

Prep WorkFlow: OrgExtAq(7)  
 Prep Method: EPA 3510C

Status: Prepped  
 Prep Date/Time: 3/13/18 06:16 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method / Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802190-01	MB		1000mL	62.5/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188553	
2	RQ1802190-01	MB		1000mL	8270D/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188553	
3	RQ1802190-02	LCS		1000mL	62.5/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188553; 1.0000 mL/188504; 1.0000 mL/188214;	
4	RQ1802190-02	LCS		1000mL	8270D/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188502; 1.0000 mL/188553; 1.0000 mL/188214; 1.0000 mL/187635;	
5	RQ1802190-03	DLCS		1000mL	62.5/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188502; 1.0000 mL/187635; 1.0000 mL/188214;	
6	RQ1802190-03	DLCS		1000mL	8270D/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188502; 1.0000 mL/188553; 1.0000 mL/188504; 1.0000 mL/187635;	
7	R1801844-001RE	CBF	.01	1060mL	62.5/SVO	7	x	x	1.00mL	clear	1.0000 mL/188214	
8	R1802067-001	Wastewater	.09	1060mL	62.5/SVO	7	x	x	1.00mL	light yellow	1.0000 mL/188553	
9	R1802137-002	MW-02	.09	1060mL	8270D/SVO	7	x	x	1.00mL	light yellow	1.0000 mL/188553	
10	RQ1802190-04	R1802137-002 MS	.23	1060mL	8270D/SVO	7	x	x	1.00mL	light yellow	1.0000 mL/188553; 1.0000 mL/188502; 1.0000 mL/188504; 1.0000 mL/187635;	
11	RQ1802190-05	R1802137-002 DMS	.24	1060mL	8270D/SVO	7	x	x	1.00mL	light yellow	1.0000 mL/188214; 1.0000 mL/188553; 1.0000 mL/188502; 1.0000 mL/187635;	
12	R1802137-008	MW-08	.14	1060mL	8270D/SVO	7	x	x	1.00mL	light yellow	1.0000 mL/188553	
13	R1802175-001	1803080900A ST-6-678	.01	1060mL	8270D/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188553	
14	R1802175-003	1803080915A ST-6-824	.01	1060mL	8270D/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188504; 1.0000 mL/188502;	
15	R1802177-001	B323 TK3527	.01	1060mL	62.5/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188553	
16	R1802177-002	B323A TK3528	.01	1060mL	62.5/SVO	7	x	x	1.00mL	clear colorless	1.0000 mL/188553	

### Spiking Solutions

Name: 8270 LCS-NSI  
 Name: Benzidine LCS Spike 100ppm  
 Name: 1-Methyl-2-pyrrolidinone LCS Spike 100p

Inventory ID 187635  
 Inventory ID 188214  
 Inventory ID 188502

Logbook Ref.  
 Logbook Ref.  
 Logbook Ref.

Expires On: 06/30/2018  
 Expires On: 08/25/2018  
 Expires On: 09/04/2018

Lot #: 122017

# Preparation Information Benchsheet

**Prep Run#:** 309817  
**Team:** Semivoa GCMS/JMISUREWICZ  
**Name:** OLM/SOM additional Spike 100ppm  
**Name:** 8270 Soil Surrogate 100-200ppm

**Prep WorkFlow:** OrgExtAq(7)  
**Prep Method:** EPA 3510C  
**Logbook Ref:** 188504  
**Logbook Ref:** 188553

**Inventory ID:** 188504  
**Inventory ID:** 188553

**Status:** Prepped  
**Prep Date/Time:** 3/13/18 06:16 AM  
**Expires On:** 06/03/2018  
**Expires On:** 09/05/2018

**Preparation Materials**

Eppendorf Pipette Repeater	EXT #18 (184837)	2mL Graduated Vials	(187354)
Dichloromethane (Methylene Chloride) 99.9% MeCl2	canister (188429)	Sodium Hydroxide 50% NaOH	(187164)
Prepared Sodium Sulfate Na2SO4	(188345)	Sulfuric Acid, 50% H2SO4	(188339)
		pH Paper 0-14	(187662)

**Preparation Steps**

Step:	Extraction	Step:	Final Volume
Started:	3/13/18 06:16	Started:	3/14/18 09:11
Finished:	3/13/18 15:00	Finished:	3/14/18 09:11
By:	MPEDRO	By:	DMURPHY
Comments		Comments	

Comments:

Reviewed By: WJBE Date: 3/14/18 Spike Witness: MCYMBAL Date: \_\_\_\_\_

Chain of Custody

Relinquished By: _____	Date: _____	Extracts Examined
Received By: _____	Date: _____	Yes No



# Metals

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**METALS**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

MW-02

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Lab Sample ID: R1802137-002

Level (low/med): LOW Date Received: 3/12/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P
7440-39-3	Barium	138			P
7440-43-9	Cadmium	0.900	U		P
7439-97-6	Mercury	0.090	U		CV
7440-47-3	Chromium	2.7	U		P
7439-92-1	Lead	3.6	U		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	1.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**METALS**  
-1-  
**INORGANIC ANALYSIS DATA SHEET**

SAMPLE NO.

MW-08

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Matrix (soil/water): WATER Lab Sample ID: R1802137-008

Level (low/med): LOW Date Received: 3/12/2018

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.6	U		P
7440-39-3	Barium	77.6			P
7440-43-9	Cadmium	0.900	U		P
7439-97-6	Mercury	0.090	U		CV
7440-47-3	Chromium	2.7	U		P
7439-92-1	Lead	3.6	U		P
7782-49-2	Selenium	3.3	U		P
7440-22-4	Silver	1.7	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Metals Cover Page

Analyst: NM

Date: 3/16/18

Instrument: ICP6

Data File: 0m2116A

Reviewed By: CK3/19/18

Entered By: CK3/19/18

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
583987	Se	309844	6010C		
	Cu	309874			
	ASKNA	309873			

583988	CaKNA	309876	6010C		

583989	Tal + BMS/EN	310003	6010C		R1979-001 CaNa 002,003 CaNa R2172-001 Na



## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No



**ICP-6 Run Log**  
Serial number: MY15340001

Analyst: NM

Date: 3/16/18

Data File: GMAR16A

	Prep Date	Lot #		Prep Date	Lot #
MRL	1/29/18	M7620094C	Cal Std 1	3/13/18	M7620016B
ICSA	1/30/17	M7620109C	Cal Std 2	3/16/18	M7620024P
ICSAB	1/29/18	M7620116E	Cal Std 5/ HLCCV1	3/14/18	M7620035R
Int. Std	3/14/18	M762026M	ICV/CCV	3/16/18	M7620056F
HLCCV3	3/14/18	M7620087R	HLCCV2	3/14/18	M7620074J

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
			M2S, M34	-	-

Lot	M7600087	M760004D	M2S, M34	-	-
1:6	PBS-309844	1:23	PBW-309876	1:50	PBW-310003
1:7	LCSW-309844	1:24	LCSW-309876	1:51	LCSW-310003
1:8	R1801889-001	1:25	R1801868-001 10X	1:52	R1801979-001
1:9	R1801889-001L	1:26	R1801868-001S 10X	1:53	R1801979-001S
1:10	PBW-309874	1:27	R1801868-001SD 10X	1:54	R1801979-001SD
1:11	LCSW-309874	1:28	R1801868-001A 10X	1:55	R1801979-001A
1:12	R1802075-001 10X	1:29	R1801868-001L 10X	1:56	R1801979-001L
1:13	R1802075-001L 10X	1:30	R1801868-002 10X	1:57	R1801979-002
S1:6	Continuing Calibration Verification	1:31	R1801868-003 10X	1:58	R1801979-003
S1:7	Continuing Calibration Blank	1:32	R1801868-004 5X	1:59	R1802079-002
1:14	PBW-309873	S1:6	Continuing Calibration Verification	S1:8	Continuing Calibration Verification1
1:15	LCSW-309873	S1:7	Continuing Calibration Blank	S1:9	Continuing Calibration Blank1
1:16	R1802055-001 100X <i>OK 3/19/18</i>	1:33	R1801868-005 10X	1:60	R1802079-004
1:17	R1802055-001 100X <i>-002</i>	1:34	R1801868-006 10X	2:1	R1802079-006
1:18	R1802137-002	1:35	R1801868-007 10X	2:2	R1802079-008
1:19	R1802137-002S	1:36	R1801868-008 10X	2:3	R1802079-010
1:20	R1802137-002SD	1:37	R1801868-009 10X	2:4	R1802079-012
1:21	R1802137-002A	1:38	R1801868-010 5X	2:5	R1802079-014
1:22	R1802137-002L	1:39	R1801868-011 10X	2:6	R1802079-014S
S1:6	Continuing Calibration Verification	1:40	R1801868-012 10X	2:7	R1802079-014SD
S1:7	Continuing Calibration Blank	1:41	R1801868-013 10X	2:8	R1802079-014A
S1:3	Contract Required Detection Limit	1:42	R1801868-014 10X	2:9	R1802079-014L
S1:4	Interference Check Solution A	S1:6	Continuing Calibration Verification	S1:8	Continuing Calibration Verification1
S1:5	Interference Check Solution AB	S1:7	Continuing Calibration Blank	S1:9	Continuing Calibration Blank1
S1:21	HLCCV2	1:43	R1801868-015 5X	2:10	R1802103-001 20X
S1:22	HLCCV3	1:44	R1801868-016 5X	2:11	R1802103-001 5X
S1:23	HLCCV1	1:45	R1801868-017 5X	2:12	R1802103-001D 5X
S1:6	Continuing Calibration Verification	1:46	R1801868-018 20X	2:13	R1802103-001
S1:7	Continuing Calibration Blank	1:47	R1801868-019 10X	2:14	R1802110-001
		1:48	R1801868-020 5X	2:15	R1802110-002
		1:49	R1801868-014 100X	2:16	R1802110-007
		S1:6	Continuing Calibration Verification	2:17	R1802168-001
		S1:7	Continuing Calibration Blank	2:18	R1802168-002
		S1:3	Contract Required Detection Limit	2:19	R1802168-003
		S1:4	Interference Check Solution A	S1:8	Continuing Calibration Verification1
		S1:5	Interference Check Solution AB	S1:9	Continuing Calibration Blank1
		S1:8	Continuing Calibration Verification1	2:20	R1802168-004
		S1:9	Continuing Calibration Blank1	2:21	R1802172-001
				2:22	R1802172-002
				S1:8	Continuing Calibration Verification1
				S1:9	Continuing Calibration Blank1

*NM*  
*3/16/18*

P:\INTRANET\QAQC

Contract Required Detection Limit
Interference Check Solution A
Interference Check Solution AB
Continuing Calibration Verification1
Continuing Calibration Blank1



Path: C:\Agilent\ICP Expert\My Results\6MAR16A.esws

Date created: 11/10/2015 11:09:45 AM

Instrument used: MY15340001

Software Version : 7.100.6821.61355 Firmware Version : 2994

Notes:

*Analysis: Nicole Mansen  
 (Matschke) 3/19/18  
 3/16/18*

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:18:59	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-101.4863
3/16/2018 17:18:59	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	122.6716
3/16/2018 17:18:59	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-3.1355
3/16/2018 17:18:59	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	95.8878
3/16/2018 17:18:59	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.8080
3/16/2018 17:18:59	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-560.1169
3/16/2018 17:18:59	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.3611
3/16/2018 17:18:59	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	17.4112
3/16/2018 17:18:59	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.0600
3/16/2018 17:18:59	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.3921
3/16/2018 17:18:59	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	16.2691
3/16/2018 17:18:59	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	19.8245
3/16/2018 17:18:59	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	32.5251
3/16/2018 17:18:59	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-8.0948
3/16/2018 17:18:59	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	1.5605
3/16/2018 17:18:59	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	10.3085
3/16/2018 17:18:59	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-8147.9493
3/16/2018 17:18:59	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-21.8082
3/16/2018 17:18:59	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.1151
3/16/2018 17:18:59	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.0018
3/16/2018 17:18:59	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.0486
3/16/2018 17:18:59	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.6261
3/16/2018 17:18:59	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.6197
3/16/2018 17:18:59	Blank	Tl (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-587.4476
3/16/2018 17:18:59	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	16.4963
3/16/2018 17:18:59	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	135.6968
3/16/2018 17:18:59	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	731046.58
3/16/2018 17:18:59	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	734175.35
3/16/2018 17:18:59	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-30.2821
3/16/2018 17:22:19	Standard 1	Ag (328.068 nm)		N/A		-108.3624
3/16/2018 17:22:19	Standard 1	Al (394.401 nm)		N/A		299.4767
3/16/2018 17:22:19	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	0.7028
3/16/2018 17:22:19	Standard 1	B (249.772 nm)		N/A		93.2435
3/16/2018 17:22:19	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	614.1081
3/16/2018 17:22:19	Standard 1	Be (313.107 nm)		N/A		-556.6105
3/16/2018 17:22:19	Standard 1	Ca (227.547 nm)		N/A		27.5713
3/16/2018 17:22:19	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	38.4587
3/16/2018 17:22:19	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	23.6752
3/16/2018 17:22:19	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	218.5551
3/16/2018 17:22:19	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	513.7531

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:22:19	Standard 1	Fe (234.350 nm)		N/A		21.1768
3/16/2018 17:22:19	Standard 1	K (766.491 nm)		N/A		4391.4770
3/16/2018 17:22:19	Standard 1	Mg (279.078 nm)		N/A		882.2868
3/16/2018 17:22:19	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	2987.5934
3/16/2018 17:22:19	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	227.9748
3/16/2018 17:22:19	Standard 1	Na (588.995 nm)		N/A		10042.0550
3/16/2018 17:22:19	Standard 1	Ni (230.299 nm)		N/A		-20.7506
3/16/2018 17:22:19	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	16.8314
3/16/2018 17:22:19	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	13.4694
3/16/2018 17:22:19	Standard 1	Se (196.026 nm)		N/A		-1.5014
3/16/2018 17:22:19	Standard 1	Sn (189.925 nm)		N/A		0.8951
3/16/2018 17:22:19	Standard 1	Sr (216.596 nm)		N/A		-2.7045
3/16/2018 17:22:19	Standard 1	Ti (336.122 nm)		N/A		-613.4705
3/16/2018 17:22:19	Standard 1	Ti (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	37.8166
3/16/2018 17:22:19	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	214.4187
3/16/2018 17:22:19	Standard 1	Y (360.074 nm)	1.01 (Ratio)	0.55	1.01 (Ratio)	739347.20
3/16/2018 17:22:19	Standard 1	Y_R (360.074 nm)	1.01 (Ratio)	0.55	1.01 (Ratio)	742568.33
3/16/2018 17:22:19	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	247.0674
3/16/2018 17:25:39	Standard 2	Ag (328.068 nm)		N/A		-89.9566
3/16/2018 17:25:39	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1024.8161
3/16/2018 17:25:39	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	3.6777
3/16/2018 17:25:39	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	5133.7417
3/16/2018 17:25:39	Standard 2	Ba (230.424 nm)		N/A		0.7582
3/16/2018 17:25:39	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3337.6003
3/16/2018 17:25:39	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	47.3775
3/16/2018 17:25:39	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	124.5099
3/16/2018 17:25:39	Standard 2	Co (230.786 nm)		N/A		0.4149
3/16/2018 17:25:39	Standard 2	Cr (267.716 nm)		N/A		-2.9242
3/16/2018 17:25:39	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1001.8993
3/16/2018 17:25:39	Standard 2	Fe (234.350 nm)		N/A		15.3680
3/16/2018 17:25:39	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4478.1064
3/16/2018 17:25:39	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1822.1522
3/16/2018 17:25:39	Standard 2	Mn (257.610 nm)		N/A		14.6297
3/16/2018 17:25:39	Standard 2	Mo (202.032 nm)		N/A		9.2312
3/16/2018 17:25:39	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	28624.8111
3/16/2018 17:25:39	Standard 2	Ni (230.299 nm)		N/A		-19.4289
3/16/2018 17:25:39	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	111.7661
3/16/2018 17:25:39	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	74.8951
3/16/2018 17:25:39	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	7.1725
3/16/2018 17:25:39	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	569.4281
3/16/2018 17:25:39	Standard 2	Sr (216.596 nm)		N/A		-0.4414
3/16/2018 17:25:39	Standard 2	Ti (336.122 nm)		N/A		-607.7782
3/16/2018 17:25:39	Standard 2	Ti (351.923 nm)		N/A		15.2761
3/16/2018 17:25:39	Standard 2	V (292.401 nm)		N/A		129.9592
3/16/2018 17:25:39	Standard 2	Y (360.074 nm)	1.01 (Ratio)	0.92	1.01 (Ratio)	741084.47
3/16/2018 17:25:39	Standard 2	Y_R (360.074 nm)	1.01 (Ratio)	0.93	1.01 (Ratio)	744248.78
3/16/2018 17:25:39	Standard 2	Zn (213.857 nm)		N/A		-27.7140
3/16/2018 17:28:59	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	500.2885
3/16/2018 17:28:59	Standard 3	Al (394.401 nm)		N/A		1877.0335
3/16/2018 17:28:59	Standard 3	As (188.980 nm)		N/A		12.1743
3/16/2018 17:28:59	Standard 3	B (249.772 nm)		N/A		1367.6506

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:28:59	Standard 3	Ba (230.424 nm)		N/A		6129.7540
3/16/2018 17:28:59	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	5974.0598
3/16/2018 17:28:59	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	26.9613
3/16/2018 17:28:59	Standard 3	Cd (214.439 nm)		N/A		229.3872
3/16/2018 17:28:59	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	451.8598
3/16/2018 17:28:59	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	428.5352
3/16/2018 17:28:59	Standard 3	Cu (327.395 nm)		N/A		1209.8342
3/16/2018 17:28:59	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1020.2811
3/16/2018 17:28:59	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1126.8915
3/16/2018 17:28:59	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	893.9774
3/16/2018 17:28:59	Standard 3	Mn (257.610 nm)		N/A		4255.0219
3/16/2018 17:28:59	Standard 3	Mo (202.032 nm)		N/A		448.7121
3/16/2018 17:28:59	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	10249.4235
3/16/2018 17:28:59	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	232.1471
3/16/2018 17:28:59	Standard 3	Pb (220.353 nm)		N/A		26.8385
3/16/2018 17:28:59	Standard 3	Sb (217.582 nm)		N/A		124.2917
3/16/2018 17:28:59	Standard 3	Se (196.026 nm)		N/A		8.6042
3/16/2018 17:28:59	Standard 3	Sn (189.925 nm)		N/A		117.3868
3/16/2018 17:28:59	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	675.1161
3/16/2018 17:28:59	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	7881.2599
3/16/2018 17:28:59	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	53.7470
3/16/2018 17:28:59	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	1647.4628
3/16/2018 17:28:59	Standard 3	Y (360.074 nm)	1.02 (Ratio)	0.76	1.02 (Ratio)	742375.08
3/16/2018 17:28:59	Standard 3	Y_R (360.074 nm)	1.02 (Ratio)	0.75	1.02 (Ratio)	745559.48
3/16/2018 17:28:59	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	542.2256
3/16/2018 17:32:19	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	11781.5604
3/16/2018 17:32:19	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	37842.8698
3/16/2018 17:32:19	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	342.6617
3/16/2018 17:32:19	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	25907.9120
3/16/2018 17:32:19	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	120290.7059
3/16/2018 17:32:19	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	132596.2398
3/16/2018 17:32:19	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	435.1579
3/16/2018 17:32:19	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4263.3612
3/16/2018 17:32:19	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	9158.1533
3/16/2018 17:32:19	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	8566.0294
3/16/2018 17:32:19	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	24170.2824
3/16/2018 17:32:19	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	19897.1448
3/16/2018 17:32:19	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	22958.0187
3/16/2018 17:32:19	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	18072.9050
3/16/2018 17:32:19	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	82855.3436
3/16/2018 17:32:19	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	8934.2191
3/16/2018 17:32:19	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	355321.0669
3/16/2018 17:32:19	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	5094.7838
3/16/2018 17:32:19	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	412.9358
3/16/2018 17:32:19	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2524.2816
3/16/2018 17:32:19	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	169.6885
3/16/2018 17:32:19	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2310.4668
3/16/2018 17:32:19	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	13412.5700
3/16/2018 17:32:19	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	169036.6584
3/16/2018 17:32:19	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	865.5796
3/16/2018 17:32:19	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	30714.9331

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:32:19	Standard 4	Y (360.074 nm)	1.00 (Ratio)	0.91	1.00 (Ratio)	732904.69
3/16/2018 17:32:19	Standard 4	Y_R (360.074 nm)	1.00 (Ratio)	0.92	1.00 (Ratio)	735950.53
3/16/2018 17:32:19	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	11338.9877
3/16/2018 17:35:39	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	60640.4690
3/16/2018 17:35:39	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	206104.0242
3/16/2018 17:35:39	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1753.6168
3/16/2018 17:35:39	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	131418.8369
3/16/2018 17:35:39	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	585827.9591
3/16/2018 17:35:39	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	662627.0828
3/16/2018 17:35:39	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2270.9400
3/16/2018 17:35:39	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	20694.2322
3/16/2018 17:35:39	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	44948.6992
3/16/2018 17:35:39	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	42275.3059
3/16/2018 17:35:39	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	124262.8958
3/16/2018 17:35:39	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	97149.1133
3/16/2018 17:35:39	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	118647.0804
3/16/2018 17:35:39	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	91219.8954
3/16/2018 17:35:39	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	407042.1166
3/16/2018 17:35:39	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	44536.9992
3/16/2018 17:35:39	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	1807052.9300
3/16/2018 17:35:39	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	24884.7447
3/16/2018 17:35:39	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2005.3527
3/16/2018 17:35:39	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12624.0986
3/16/2018 17:35:39	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	870.6004
3/16/2018 17:35:39	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	11332.1919
3/16/2018 17:35:39	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	65936.8326
3/16/2018 17:35:39	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	842654.3524
3/16/2018 17:35:39	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4459.2463
3/16/2018 17:35:39	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	152515.3120
3/16/2018 17:35:39	Standard 5	Y (360.074 nm)	0.97 (Ratio)	0.96	0.97 (Ratio)	711232.71
3/16/2018 17:35:39	Standard 5	Y_R (360.074 nm)	0.97 (Ratio)	0.97	0.97 (Ratio)	714003.88
3/16/2018 17:35:39	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	57039.4612
3/16/2018 17:38:58	Initial Calibration Verification	Ag (328.068 nm)	0.4839 (ppm)	0.43	0.4839 (ppm)	29268.8923
3/16/2018 17:38:58	Initial Calibration Verification	Al (394.401 nm)	9.6092 (ppm)	0.46	9.6092 (ppm)	98766.8595
3/16/2018 17:38:58	Initial Calibration Verification	As (188.980 nm)	0.9714 (ppm)	0.37	0.9714 (ppm)	849.5721
3/16/2018 17:38:58	Initial Calibration Verification	B (249.772 nm)	2.4533 (ppm)	0.34	2.4533 (ppm)	64484.8806
3/16/2018 17:38:58	Initial Calibration Verification	Ba (230.424 nm)	10.2179 (ppm)	0.35	10.2179 (ppm)	299602.3776
3/16/2018 17:38:58	Initial Calibration Verification	Be (313.107 nm)	0.2528 (ppm)	0.22	0.2528 (ppm)	334792.1847
3/16/2018 17:38:58	Initial Calibration Verification	Ca (227.547 nm)	24.1537 (ppm)	0.28	24.1537 (ppm)	1097.1748
3/16/2018 17:38:58	Initial Calibration Verification	Cd (214.439 nm)	0.5053 (ppm)	0.34	0.5053 (ppm)	10476.7446
3/16/2018 17:38:58	Initial Calibration Verification	Co (230.786 nm)	2.5814 (ppm)	0.28	2.5814 (ppm)	23222.2321
3/16/2018 17:38:58	Initial Calibration Verification	Cr (267.716 nm)	0.5223 (ppm)	0.36	0.5223 (ppm)	22089.3733
3/16/2018 17:38:58	Initial Calibration Verification	Cu (327.395 nm)	1.2211 (ppm)	0.57	1.2211 (ppm)	60637.1554
3/16/2018 17:38:58	Initial Calibration Verification	Fe (234.350 nm)	5.0356 (ppm)	0.37	5.0356 (ppm)	48973.6447
3/16/2018 17:38:58	Initial Calibration Verification	K (766.491 nm)	24.5891 (ppm)	0.64	24.5891 (ppm)	58283.5506
3/16/2018 17:38:58	Initial Calibration Verification	Mg (279.078 nm)	24.8224 (ppm)	0.40	24.8224 (ppm)	45266.1661
3/16/2018 17:38:58	Initial Calibration Verification	Mn (257.610 nm)	0.7694 (ppm)	0.31	0.7694 (ppm)	208927.4328
3/16/2018 17:38:58	Initial Calibration Verification	Mo (202.032 nm)	2.4952 (ppm)	0.23	2.4952 (ppm)	22233.0311
3/16/2018 17:38:58	Initial Calibration Verification	Na (588.995 nm)	24.5792 (ppm)	0.62	24.5792 (ppm)	884223.2545
3/16/2018 17:38:58	Initial Calibration Verification	Ni (230.299 nm)	2.0621 (ppm)	0.36	2.0621 (ppm)	12831.8150
3/16/2018 17:38:58	Initial Calibration Verification	Pb (220.353 nm)	0.5026 (ppm)	0.20	0.5026 (ppm)	1011.7851

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:38:58	Initial Calibration Verification	Sb (217.582 nm)	4.9344 (ppm)	0.49	4.9344 (ppm)	6229.2356
3/16/2018 17:38:58	Initial Calibration Verification	Se (196.026 nm)	0.4895 (ppm)	0.35	0.4895 (ppm)	425.2835
3/16/2018 17:38:58	Initial Calibration Verification	Sn (189.925 nm)	5.1148 (ppm)	0.41	5.1148 (ppm)	5800.8410
3/16/2018 17:38:58	Initial Calibration Verification	Sr (216.596 nm)	2.5267 (ppm)	0.29	2.5267 (ppm)	33342.2349
3/16/2018 17:38:58	Initial Calibration Verification	Ti (336.122 nm)	2.4813 (ppm)	0.43	2.4813 (ppm)	417969.5756
3/16/2018 17:38:58	Initial Calibration Verification	Ti (351.923 nm)	0.9960 (ppm)	0.28	0.9960 (ppm)	2225.2297
3/16/2018 17:38:58	Initial Calibration Verification	V (292.401 nm)	2.5201 (ppm)	0.31	2.5201 (ppm)	76947.7288
3/16/2018 17:38:58	Initial Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.75	0.99 (Ratio)	725294.47
3/16/2018 17:38:58	Initial Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.75	0.99 (Ratio)	728223.59
3/16/2018 17:38:58	Initial Calibration Verification	Zn (213.857 nm)	0.9685 (ppm)	0.31	0.9685 (ppm)	27602.1443
3/16/2018 17:42:16	Initial Calibration Blank	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-96.0353
3/16/2018 17:42:16	Initial Calibration Blank	Al (394.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	123.8875
3/16/2018 17:42:16	Initial Calibration Blank	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-2.2589
3/16/2018 17:42:16	Initial Calibration Blank	B (249.772 nm)	0.0017 (ppm)	20.17	0.0017 (ppm)	140.4024
3/16/2018 17:42:16	Initial Calibration Blank	Ba (230.424 nm)	0.0009 (ppm)	57.16	0.0009 (ppm)	24.4737
3/16/2018 17:42:16	Initial Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	21.32	0.0000 (ppm)	-527.4314
3/16/2018 17:42:16	Initial Calibration Blank	Ca (227.547 nm)	0.0632 u (ppm)	> 100.00	0.0632 (ppm)	7.2188
3/16/2018 17:42:16	Initial Calibration Blank	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.2197
3/16/2018 17:42:16	Initial Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.8171
3/16/2018 17:42:16	Initial Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-2.3332
3/16/2018 17:42:16	Initial Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.2523
3/16/2018 17:42:16	Initial Calibration Blank	Fe (234.350 nm)	0.0012 (ppm)	10.56	0.0012 (ppm)	31.4073
3/16/2018 17:42:16	Initial Calibration Blank	K (766.491 nm)	0.0419 (ppm)	20.86	0.0419 (ppm)	131.7936
3/16/2018 17:42:16	Initial Calibration Blank	Mg (279.078 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-5.2386
3/16/2018 17:42:16	Initial Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	29.39	0.0001 (ppm)	20.5463
3/16/2018 17:42:16	Initial Calibration Blank	Mo (202.032 nm)	0.0017 (ppm)	13.38	0.0017 (ppm)	25.6656
3/16/2018 17:42:16	Initial Calibration Blank	Na (588.995 nm)	0.0063 (ppm)	37.04	0.0063 (ppm)	-7918.0861
3/16/2018 17:42:16	Initial Calibration Blank	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-23.9133
3/16/2018 17:42:16	Initial Calibration Blank	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.7406
3/16/2018 17:42:16	Initial Calibration Blank	Sb (217.582 nm)	0.0064 (ppm)	18.42	0.0064 (ppm)	8.0330
3/16/2018 17:42:16	Initial Calibration Blank	Se (196.026 nm)	0.0037 (ppm)	40.26	0.0037 (ppm)	2.1620
3/16/2018 17:42:16	Initial Calibration Blank	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.5655
3/16/2018 17:42:16	Initial Calibration Blank	Sr (216.596 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.6072
3/16/2018 17:42:16	Initial Calibration Blank	Ti (336.122 nm)	0.0013 (ppm)	18.48	0.0013 (ppm)	-362.9335
3/16/2018 17:42:16	Initial Calibration Blank	Ti (351.923 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	19.5497
3/16/2018 17:42:16	Initial Calibration Blank	V (292.401 nm)	0.0002 (ppm)	86.75	0.0002 (ppm)	141.0785
3/16/2018 17:42:16	Initial Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	1.41	1.01 (Ratio)	738929.38
3/16/2018 17:42:16	Initial Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	1.40	1.01 (Ratio)	742160.03
3/16/2018 17:42:16	Initial Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	48.30	0.0003 (ppm)	-22.5905
3/16/2018 17:45:35	Contract Required Detection Limit	Ag (328.068 nm)	0.0099 (ppm)	0.38	0.0099 (ppm)	498.6099
3/16/2018 17:45:35	Contract Required Detection Limit	Al (394.401 nm)	0.1749 (ppm)	0.53	0.1749 (ppm)	1917.8533
3/16/2018 17:45:35	Contract Required Detection Limit	As (188.980 nm)	0.0219 (ppm)	8.92	0.0219 (ppm)	16.0752
3/16/2018 17:45:35	Contract Required Detection Limit	B (249.772 nm)	0.1995 (ppm)	0.81	0.1995 (ppm)	5331.3095
3/16/2018 17:45:35	Contract Required Detection Limit	Ba (230.424 nm)	0.2073 (ppm)	0.72	0.2073 (ppm)	6076.5396
3/16/2018 17:45:35	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.71	0.0050 (ppm)	6027.8815
3/16/2018 17:45:35	Contract Required Detection Limit	Ca (227.547 nm)	0.9511 (ppm)	2.01	0.9511 (ppm)	47.3922
3/16/2018 17:45:35	Contract Required Detection Limit	Cd (214.439 nm)	0.0102 (ppm)	0.59	0.0102 (ppm)	227.6580
3/16/2018 17:45:35	Contract Required Detection Limit	Co (230.786 nm)	0.0509 (ppm)	0.39	0.0509 (ppm)	455.7860
3/16/2018 17:45:35	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	0.69	0.0102 (ppm)	428.0151
3/16/2018 17:45:35	Contract Required Detection Limit	Cu (327.395 nm)	0.0243 (ppm)	0.56	0.0243 (ppm)	1220.2033
3/16/2018 17:45:35	Contract Required Detection Limit	Fe (234.350 nm)	0.1051 (ppm)	0.68	0.1051 (ppm)	1041.1142

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:45:35	Contract Required Detection Limit	K (766.491 nm)	0.9584 (ppm)	1.70	0.9584 (ppm)	2303.0736
3/16/2018 17:45:35	Contract Required Detection Limit	Mg (279.078 nm)	1.0042 (ppm)	0.80	1.0042 (ppm)	1823.4930
3/16/2018 17:45:35	Contract Required Detection Limit	Mn (257.610 nm)	0.0155 (ppm)	0.49	0.0155 (ppm)	4202.6018
3/16/2018 17:45:35	Contract Required Detection Limit	Mo (202.032 nm)	0.0249 (ppm)	0.66	0.0249 (ppm)	232.1035
3/16/2018 17:45:35	Contract Required Detection Limit	Na (588.995 nm)	1.0198 (ppm)	0.86	1.0198 (ppm)	28877.4549
3/16/2018 17:45:35	Contract Required Detection Limit	Ni (230.299 nm)	0.0417 (ppm)	1.41	0.0417 (ppm)	238.1560
3/16/2018 17:45:35	Contract Required Detection Limit	Pb (220.353 nm)	0.0108 (ppm)	3.31	0.0108 (ppm)	27.8044
3/16/2018 17:45:35	Contract Required Detection Limit	Sb (217.582 nm)	0.0634 (ppm)	2.22	0.0634 (ppm)	80.0920
3/16/2018 17:45:35	Contract Required Detection Limit	Se (196.026 nm)	0.0123 R (ppm)	22.11	0.0123 (ppm)	9.6673 R
3/16/2018 17:45:35	Contract Required Detection Limit	Sn (189.925 nm)	0.5092 (ppm)	0.69	0.5092 (ppm)	578.0638
3/16/2018 17:45:35	Contract Required Detection Limit	Sr (216.596 nm)	0.1012 (ppm)	1.23	0.1012 (ppm)	1335.4284
3/16/2018 17:45:35	Contract Required Detection Limit	Ti (336.122 nm)	0.0510 (ppm)	0.57	0.0510 (ppm)	8015.6957
3/16/2018 17:45:35	Contract Required Detection Limit	Tl (351.923 nm)	0.0179 (ppm)	31.21	0.0179 (ppm)	56.1805
3/16/2018 17:45:35	Contract Required Detection Limit	V (292.401 nm)	0.0488 (ppm)	0.86	0.0488 (ppm)	1622.2938
3/16/2018 17:45:35	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.78	1.03 (Ratio)	750126.14
3/16/2018 17:45:35	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.77	1.03 (Ratio)	753301.88
3/16/2018 17:45:35	Contract Required Detection Limit	Zn (213.857 nm)	0.0197 (ppm)	0.63	0.0197 (ppm)	532.4577
3/16/2018 17:48:54	Interference Check Solution A	Ag (328.068 nm)	0.0001 (ppm)	76.81	0.0001 (ppm)	-94.1251
3/16/2018 17:48:54	Interference Check Solution A	Al (394.401 nm)	269.3576 o (ppm)	0.76	269.3576 (ppm)	2765244.1524
3/16/2018 17:48:54	Interference Check Solution A	As (188.980 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	-1.2556
3/16/2018 17:48:54	Interference Check Solution A	B (249.772 nm)	0.0416 (ppm)	0.27	0.0416 (ppm)	1187.2294
3/16/2018 17:48:54	Interference Check Solution A	Ba (230.424 nm)	0.0008 (ppm)	6.24	0.0008 (ppm)	23.9706
3/16/2018 17:48:54	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	23.61	0.0000 (ppm)	-622.3120
3/16/2018 17:48:54	Interference Check Solution A	Ca (227.547 nm)	271.4187 o (ppm)	0.74	271.4187 (ppm)	12284.4595
3/16/2018 17:48:54	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u (ppm)	19.46	-0.0010 (ppm)	-3.0722
3/16/2018 17:48:54	Interference Check Solution A	Co (230.786 nm)	-0.0016 u (ppm)	46.65	-0.0016 (ppm)	-16.5560
3/16/2018 17:48:54	Interference Check Solution A	Cr (267.716 nm)	0.0003 (ppm)	87.17	0.0003 (ppm)	11.3781
3/16/2018 17:48:54	Interference Check Solution A	Cu (327.395 nm)	0.0005 (ppm)	19.50	0.0005 (ppm)	41.8083
3/16/2018 17:48:54	Interference Check Solution A	Fe (234.350 nm)	95.1174 o (ppm)	0.54	95.1174 (ppm)	924717.0410
3/16/2018 17:48:54	Interference Check Solution A	K (766.491 nm)	0.0765 (ppm)	8.02	0.0765 (ppm)	213.7285
3/16/2018 17:48:54	Interference Check Solution A	Mg (279.078 nm)	269.1228 o (ppm)	0.59	269.1228 (ppm)	490852.2542
3/16/2018 17:48:54	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	0.97	0.0017 (ppm)	459.8851
3/16/2018 17:48:54	Interference Check Solution A	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	8.8422
3/16/2018 17:48:54	Interference Check Solution A	Na (588.995 nm)	-0.0203 u (ppm)	12.49	-0.0203 (ppm)	-8886.2542
3/16/2018 17:48:54	Interference Check Solution A	Ni (230.299 nm)	-0.0020 u (ppm)	51.57	-0.0020 (ppm)	-33.9730
3/16/2018 17:48:54	Interference Check Solution A	Pb (220.353 nm)	-0.0044 u (ppm)	57.54	-0.0044 (ppm)	-2.5976
3/16/2018 17:48:54	Interference Check Solution A	Sb (217.582 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	3.4292
3/16/2018 17:48:54	Interference Check Solution A	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-2.0745
3/16/2018 17:48:54	Interference Check Solution A	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.6148
3/16/2018 17:48:54	Interference Check Solution A	Sr (216.596 nm)	0.0189 (ppm)	2.05	0.0189 (ppm)	249.9700
3/16/2018 17:48:54	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	7.37	0.0020 (ppm)	-249.6719
3/16/2018 17:48:54	Interference Check Solution A	Tl (351.923 nm)	0.0037 (ppm)	29.32	0.0037 (ppm)	24.7756
3/16/2018 17:48:54	Interference Check Solution A	V (292.401 nm)	0.0037 K (ppm)	4.12	0.0037 (ppm)	248.0962 K
3/16/2018 17:48:54	Interference Check Solution A	Y (360.074 nm)	0.92 (Ratio)	0.97	0.92 (Ratio)	672921.89
3/16/2018 17:48:54	Interference Check Solution A	Y_R (360.074 nm)	0.92 (Ratio)	0.97	0.92 (Ratio)	675487.86
3/16/2018 17:48:54	Interference Check Solution A	Zn (213.857 nm)	0.0103 K (ppm)	0.32	0.0103 (ppm)	262.2416 K
3/16/2018 17:52:13	Interference Check Solution AB	Ag (328.068 nm)	0.2173 (ppm)	0.47	0.2173 (ppm)	13088.6152
3/16/2018 17:52:13	Interference Check Solution AB	Al (394.401 nm)	268.9053 o (ppm)	0.46	268.9053 (ppm)	2760600.2092
3/16/2018 17:52:13	Interference Check Solution AB	As (188.980 nm)	0.0990 (ppm)	1.35	0.0990 (ppm)	83.8103
3/16/2018 17:52:13	Interference Check Solution AB	B (249.772 nm)	0.0424 (ppm)	0.32	0.0424 (ppm)	1208.4085
3/16/2018 17:52:13	Interference Check Solution AB	Ba (230.424 nm)	0.5271 (ppm)	0.47	0.5271 (ppm)	15453.3803

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:52:13	Interference Check Solution AB	Be (313.107 nm)	0.5130 (ppm)	0.65	0.5130 (ppm)	680035.0044
3/16/2018 17:52:13	Interference Check Solution AB	Ca (227.547 nm)	270.6013 (ppm)	0.62	270.6013 (ppm)	12247.4731
3/16/2018 17:52:13	Interference Check Solution AB	Cd (214.439 nm)	0.9900 (ppm)	0.54	0.9900 (ppm)	20508.2360
3/16/2018 17:52:13	Interference Check Solution AB	Co (230.786 nm)	0.5031 (ppm)	0.70	0.5031 (ppm)	4523.9792
3/16/2018 17:52:13	Interference Check Solution AB	Cr (267.716 nm)	0.5165 (ppm)	0.50	0.5165 (ppm)	21844.0653
3/16/2018 17:52:13	Interference Check Solution AB	Cu (327.395 nm)	0.5465 (ppm)	0.64	0.5465 (ppm)	27145.6635
3/16/2018 17:52:13	Interference Check Solution AB	Fe (234.350 nm)	94.8809 (ppm)	0.58	94.8809 (ppm)	922417.2897
3/16/2018 17:52:13	Interference Check Solution AB	K (766.491 nm)	0.0252 (ppm)	24.21	0.0252 (ppm)	92.2817
3/16/2018 17:52:13	Interference Check Solution AB	Mg (279.078 nm)	268.6886 (ppm)	0.55	268.6886 (ppm)	490060.3281
3/16/2018 17:52:13	Interference Check Solution AB	Mn (257.610 nm)	0.5119 (ppm)	0.51	0.5119 (ppm)	138998.5715
3/16/2018 17:52:13	Interference Check Solution AB	Mo (202.032 nm)	-0.0001 (ppm)	36.93	-0.0001 (ppm)	9.1507
3/16/2018 17:52:13	Interference Check Solution AB	Na (588.995 nm)	-0.0141 (ppm)	19.85	-0.0141 (ppm)	-8660.9963
3/16/2018 17:52:13	Interference Check Solution AB	Ni (230.299 nm)	0.9833 (ppm)	0.53	0.9833 (ppm)	6107.4802
3/16/2018 17:52:13	Interference Check Solution AB	Pb (220.353 nm)	0.0499 (ppm)	2.54	0.0499 (ppm)	105.8780
3/16/2018 17:52:13	Interference Check Solution AB	Sb (217.582 nm)	0.6225 (ppm)	0.66	0.6225 (ppm)	785.8848
3/16/2018 17:52:13	Interference Check Solution AB	Se (196.026 nm)	0.0542 (ppm)	5.37	0.0542 (ppm)	46.1748
3/16/2018 17:52:13	Interference Check Solution AB	Sn (189.925 nm)	-0.0015 (ppm)	> 100.00	-0.0015 (ppm)	-1.0557
3/16/2018 17:52:13	Interference Check Solution AB	Sr (216.596 nm)	0.0195 (ppm)	1.49	0.0195 (ppm)	258.5233
3/16/2018 17:52:13	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	3.06	0.0017 (ppm)	-302.8605
3/16/2018 17:52:13	Interference Check Solution AB	Tl (351.923 nm)	0.1157 (ppm)	5.79	0.1157 (ppm)	273.0041
3/16/2018 17:52:13	Interference Check Solution AB	V (292.401 nm)	0.5147 (ppm)	0.50	0.5147 (ppm)	15823.6972
3/16/2018 17:52:13	Interference Check Solution AB	Y (360.074 nm)	0.92 (Ratio)	0.86	0.92 (Ratio)	675288.15
3/16/2018 17:52:13	Interference Check Solution AB	Y_R (360.074 nm)	0.92 (Ratio)	0.87	0.92 (Ratio)	677807.33
3/16/2018 17:52:13	Interference Check Solution AB	Zn (213.857 nm)	0.9978 (ppm)	0.59	0.9978 (ppm)	28436.5231
3/16/2018 17:55:32	Continuing Calibration Verification	Ag (328.068 nm)	0.4848 (ppm)	0.43	0.4848 (ppm)	29321.6830
3/16/2018 17:55:32	Continuing Calibration Verification	Al (394.401 nm)	9.6654 (ppm)	0.60	9.6654 (ppm)	99343.5873
3/16/2018 17:55:32	Continuing Calibration Verification	As (188.980 nm)	0.9767 (ppm)	0.82	0.9767 (ppm)	854.2480
3/16/2018 17:55:32	Continuing Calibration Verification	B (249.772 nm)	2.4558 (ppm)	0.51	2.4558 (ppm)	64550.0383
3/16/2018 17:55:32	Continuing Calibration Verification	Ba (230.424 nm)	10.2316 (ppm)	0.61	10.2316 (ppm)	300006.0208
3/16/2018 17:55:32	Continuing Calibration Verification	Be (313.107 nm)	0.2532 (ppm)	0.48	0.2532 (ppm)	335327.0820
3/16/2018 17:55:32	Continuing Calibration Verification	Ca (227.547 nm)	24.2844 (ppm)	0.56	24.2844 (ppm)	1103.0856
3/16/2018 17:55:32	Continuing Calibration Verification	Cd (214.439 nm)	0.5060 (ppm)	0.46	0.5060 (ppm)	10490.3315
3/16/2018 17:55:32	Continuing Calibration Verification	Co (230.786 nm)	2.5860 (ppm)	0.42	2.5860 (ppm)	23263.2111
3/16/2018 17:55:32	Continuing Calibration Verification	Cr (267.716 nm)	0.5235 (ppm)	0.38	0.5235 (ppm)	22142.6940
3/16/2018 17:55:32	Continuing Calibration Verification	Cu (327.395 nm)	1.2267 (ppm)	0.59	1.2267 (ppm)	60914.3623
3/16/2018 17:55:32	Continuing Calibration Verification	Fe (234.350 nm)	5.0672 (ppm)	0.44	5.0672 (ppm)	49281.7737
3/16/2018 17:55:32	Continuing Calibration Verification	K (766.491 nm)	24.6256 (ppm)	0.68	24.6256 (ppm)	58370.2359
3/16/2018 17:55:32	Continuing Calibration Verification	Mg (279.078 nm)	24.9222 (ppm)	0.44	24.9222 (ppm)	45448.1781
3/16/2018 17:55:32	Continuing Calibration Verification	Mn (257.610 nm)	0.7705 (ppm)	0.46	0.7705 (ppm)	209238.1852
3/16/2018 17:55:32	Continuing Calibration Verification	Mo (202.032 nm)	2.4968 (ppm)	0.29	2.4968 (ppm)	22247.2448
3/16/2018 17:55:32	Continuing Calibration Verification	Na (588.995 nm)	24.6487 (ppm)	0.59	24.6487 (ppm)	886744.4341
3/16/2018 17:55:32	Continuing Calibration Verification	Ni (230.299 nm)	2.0629 (ppm)	0.42	2.0629 (ppm)	12836.4055
3/16/2018 17:55:32	Continuing Calibration Verification	Pb (220.353 nm)	0.5013 (ppm)	0.46	0.5013 (ppm)	1009.1763
3/16/2018 17:55:32	Continuing Calibration Verification	Sb (217.582 nm)	4.9517 (ppm)	0.70	4.9517 (ppm)	6250.9653
3/16/2018 17:55:32	Continuing Calibration Verification	Se (196.026 nm)	0.4950 (ppm)	1.49	0.4950 (ppm)	430.0959
3/16/2018 17:55:32	Continuing Calibration Verification	Sn (189.925 nm)	5.1258 (ppm)	0.60	5.1258 (ppm)	5813.2563
3/16/2018 17:55:32	Continuing Calibration Verification	Sr (216.596 nm)	2.5231 (ppm)	0.93	2.5231 (ppm)	33295.0862
3/16/2018 17:55:32	Continuing Calibration Verification	Ti (336.122 nm)	2.4869 (ppm)	0.47	2.4869 (ppm)	418913.1312
3/16/2018 17:55:32	Continuing Calibration Verification	Tl (351.923 nm)	0.9982 (ppm)	0.60	0.9982 (ppm)	2230.0677
3/16/2018 17:55:32	Continuing Calibration Verification	V (292.401 nm)	2.5236 (ppm)	0.48	2.5236 (ppm)	77055.0429
3/16/2018 17:55:32	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.88	0.99 (Ratio)	725782.22



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 17:55:32	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.87	0.99 (Ratio)	728694.97
3/16/2018 17:55:32	Continuing Calibration Verification	Zn (213.857 nm)	0.9704 (ppm)	0.49	0.9704 (ppm)	27655.6075
3/16/2018 17:58:51	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	74.95	0.0001 (ppm)	-92.7650
3/16/2018 17:58:51	Continuing Calibration Blank	Al (394.401 nm)	0.0015 (ppm)	60.32	0.0015 (ppm)	137.6336
3/16/2018 17:58:51	Continuing Calibration Blank	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-2.5940
3/16/2018 17:58:51	Continuing Calibration Blank	B (249.772 nm)	0.0005 (ppm)	85.54	0.0005 (ppm)	110.0449
3/16/2018 17:58:51	Continuing Calibration Blank	Ba (230.424 nm)	0.0009 (ppm)	21.74	0.0009 (ppm)	26.5762
3/16/2018 17:58:51	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	19.80	0.0000 (ppm)	-523.5487
3/16/2018 17:58:51	Continuing Calibration Blank	Ca (227.547 nm)	0.0670 (ppm)	13.70	0.0670 (ppm)	7.3919
3/16/2018 17:58:51	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.6462
3/16/2018 17:58:51	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	43.71	-0.0001 (ppm)	-2.6152
3/16/2018 17:58:51	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.2266
3/16/2018 17:58:51	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.8801
3/16/2018 17:58:51	Continuing Calibration Blank	Fe (234.350 nm)	0.0017 (ppm)	25.69	0.0017 (ppm)	36.1847
3/16/2018 17:58:51	Continuing Calibration Blank	K (766.491 nm)	0.0033 u (ppm)	> 100.00	0.0033 (ppm)	40.4135
3/16/2018 17:58:51	Continuing Calibration Blank	Mg (279.078 nm)	0.0056 (ppm)	17.96	0.0056 (ppm)	2.1703
3/16/2018 17:58:51	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	59.47	0.0001 (ppm)	19.3543
3/16/2018 17:58:51	Continuing Calibration Blank	Mo (202.032 nm)	0.0013 (ppm)	16.97	0.0013 (ppm)	22.0148
3/16/2018 17:58:51	Continuing Calibration Blank	Na (588.995 nm)	0.0080 (ppm)	9.04	0.0080 (ppm)	-7856.0827
3/16/2018 17:58:51	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-20.5421
3/16/2018 17:58:51	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.6160
3/16/2018 17:58:51	Continuing Calibration Blank	Sb (217.582 nm)	0.0014 (ppm)	35.79	0.0014 (ppm)	1.8216
3/16/2018 17:58:51	Continuing Calibration Blank	Se (196.026 nm)	0.0013 (ppm)	95.56	0.0013 (ppm)	0.0437
3/16/2018 17:58:51	Continuing Calibration Blank	Sn (189.925 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	1.6324
3/16/2018 17:58:51	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	86.66	0.0002 (ppm)	3.3574
3/16/2018 17:58:51	Continuing Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	5.51	0.0012 (ppm)	-386.9259
3/16/2018 17:58:51	Continuing Calibration Blank	Tl (351.923 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.3939
3/16/2018 17:58:51	Continuing Calibration Blank	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	137.4035
3/16/2018 17:58:51	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.96	1.02 (Ratio)	745186.09
3/16/2018 17:58:51	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.96	1.02 (Ratio)	748419.05
3/16/2018 17:58:51	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	69.74	0.0001 (ppm)	-27.4863
3/16/2018 18:02:10	PBS-309844	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-101.0278
3/16/2018 18:02:10	PBS-309844	Al (394.401 nm)	0.0084 (ppm)	14.91	0.0084 (ppm)	209.3460
3/16/2018 18:02:10	PBS-309844	As (188.980 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-4.2388
3/16/2018 18:02:10	PBS-309844	B (249.772 nm)	0.0003 (ppm)	3.03	0.0003 (ppm)	103.0003
3/16/2018 18:02:10	PBS-309844	Ba (230.424 nm)	0.0005 (ppm)	32.05	0.0005 (ppm)	12.7888
3/16/2018 18:02:10	PBS-309844	Be (313.107 nm)	0.0000 (ppm)	43.45	0.0000 (ppm)	-536.2691
3/16/2018 18:02:10	PBS-309844	Ca (227.547 nm)	0.1576 (ppm)	32.82	0.1576 (ppm)	11.4916
3/16/2018 18:02:10	PBS-309844	Cd (214.439 nm)	-0.0001 u (ppm)	89.08	-0.0001 (ppm)	15.7024
3/16/2018 18:02:10	PBS-309844	Co (230.786 nm)	-0.0003 u (ppm)	97.02	-0.0003 (ppm)	-4.4790
3/16/2018 18:02:10	PBS-309844	Cr (267.716 nm)	0.0009 (ppm)	10.32	0.0009 (ppm)	36.6098
3/16/2018 18:02:10	PBS-309844	Cu (327.395 nm)	0.0064 (ppm)	0.66	0.0064 (ppm)	335.8157
3/16/2018 18:02:10	PBS-309844	Fe (234.350 nm)	0.0195 (ppm)	1.17	0.0195 (ppm)	209.0129
3/16/2018 18:02:10	PBS-309844	K (766.491 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	31.9283
3/16/2018 18:02:10	PBS-309844	Mg (279.078 nm)	0.0281 (ppm)	3.41	0.0281 (ppm)	43.1847
3/16/2018 18:02:10	PBS-309844	Mn (257.610 nm)	0.0012 (ppm)	1.04	0.0012 (ppm)	321.9897
3/16/2018 18:02:10	PBS-309844	Mo (202.032 nm)	-0.0003 u (ppm)	72.62	-0.0003 (ppm)	7.8963
3/16/2018 18:02:10	PBS-309844	Na (588.995 nm)	0.1237 (ppm)	0.58	0.1237 (ppm)	-3655.6535
3/16/2018 18:02:10	PBS-309844	Ni (230.299 nm)	0.0010 (ppm)	26.96	0.0010 (ppm)	-15.7595
3/16/2018 18:02:10	PBS-309844	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.6530
3/16/2018 18:02:10	PBS-309844	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.3910

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:02:10	PBS-309844	Se (196.026 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-3.2139
3/16/2018 18:02:10	PBS-309844	Sn (189.925 nm)	0.0064 (ppm)	13.39	0.0064 (ppm)	7.8841
3/16/2018 18:02:10	PBS-309844	Sr (216.596 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	4.2448
3/16/2018 18:02:10	PBS-309844	Ti (336.122 nm)	0.0005 (ppm)	31.34	0.0005 (ppm)	-503.7786
3/16/2018 18:02:10	PBS-309844	Ti (351.923 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	11.3238
3/16/2018 18:02:10	PBS-309844	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	134.5434
3/16/2018 18:02:10	PBS-309844	Y (360.074 nm)	1.03 (Ratio)	1.14	1.03 (Ratio)	751726.74
3/16/2018 18:02:10	PBS-309844	Y_R (360.074 nm)	1.03 (Ratio)	1.14	1.03 (Ratio)	754923.00
3/16/2018 18:02:10	PBS-309844	Zn (213.857 nm)	0.0040 (ppm)	0.64	0.0040 (ppm)	82.4921
3/16/2018 18:05:29	LCSS-309844	Ag (328.068 nm)	0.0483 (ppm)	0.26	0.0483 (ppm)	2829.3214
3/16/2018 18:05:29	LCSS-309844	Al (394.401 nm)	1.8012 (ppm)	0.69	1.8012 (ppm)	18613.5672
3/16/2018 18:05:29	LCSS-309844	As (188.980 nm)	0.0391 (ppm)	7.51	0.0391 (ppm)	31.2173
3/16/2018 18:05:29	LCSS-309844	B (249.772 nm)	0.9334 (ppm)	0.52	0.9334 (ppm)	24594.7593
3/16/2018 18:05:29	LCSS-309844	Ba (230.424 nm)	2.0188 (ppm)	0.78	2.0188 (ppm)	59193.9434
3/16/2018 18:05:29	LCSS-309844	Be (313.107 nm)	0.0481 (ppm)	0.58	0.0481 (ppm)	63287.4910
3/16/2018 18:05:29	LCSS-309844	Ca (227.547 nm)	1.9347 (ppm)	3.13	1.9347 (ppm)	91.8956
3/16/2018 18:05:29	LCSS-309844	Cd (214.439 nm)	0.0513 (ppm)	0.36	0.0513 (ppm)	1078.5721
3/16/2018 18:05:29	LCSS-309844	Co (230.786 nm)	0.5082 (ppm)	0.44	0.5082 (ppm)	4570.0875
3/16/2018 18:05:29	LCSS-309844	Cr (267.716 nm)	0.2031 (ppm)	0.45	0.2031 (ppm)	8587.6648
3/16/2018 18:05:29	LCSS-309844	Cu (327.395 nm)	0.2513 (ppm)	0.75	0.2513 (ppm)	12494.3151
3/16/2018 18:05:29	LCSS-309844	Fe (234.350 nm)	1.0046 (ppm)	0.50	1.0046 (ppm)	9786.2652
3/16/2018 18:05:29	LCSS-309844	K (766.491 nm)	18.7878 (ppm)	0.92	18.7878 (ppm)	44540.4399
3/16/2018 18:05:29	LCSS-309844	Mg (279.078 nm)	1.9434 (ppm)	0.52	1.9434 (ppm)	3536.4448
3/16/2018 18:05:29	LCSS-309844	Mn (257.610 nm)	0.5032 (ppm)	0.55	0.5032 (ppm)	136633.9105
3/16/2018 18:05:29	LCSS-309844	Mo (202.032 nm)	0.4863 (ppm)	0.47	0.4863 (ppm)	4340.9641
3/16/2018 18:05:29	LCSS-309844	Na (588.995 nm)	19.0274 (ppm)	1.01	19.0274 (ppm)	682658.1987
3/16/2018 18:05:29	LCSS-309844	Ni (230.299 nm)	0.4962 (ppm)	0.53	0.4962 (ppm)	3071.2127
3/16/2018 18:05:29	LCSS-309844	Pb (220.353 nm)	0.4996 (ppm)	0.80	0.4996 (ppm)	1005.6472
3/16/2018 18:05:29	LCSS-309844	Sb (217.582 nm)	0.4605 (ppm)	0.17	0.4605 (ppm)	581.3275
3/16/2018 18:05:29	LCSS-309844	Se (196.026 nm)	0.9616 (ppm)	0.91	0.9616 (ppm)	836.4914
3/16/2018 18:05:29	LCSS-309844	Sn (189.925 nm)	4.9354 (ppm)	0.58	4.9354 (ppm)	5597.3528
3/16/2018 18:05:29	LCSS-309844	Sr (216.596 nm)	2.0465 (ppm)	0.67	2.0465 (ppm)	27005.6689
3/16/2018 18:05:29	LCSS-309844	Ti (336.122 nm)	0.4870 (ppm)	0.50	0.4870 (ppm)	81567.3055
3/16/2018 18:05:29	LCSS-309844	Ti (351.923 nm)	1.8102 (ppm)	0.50	1.8102 (ppm)	4030.6858
3/16/2018 18:05:29	LCSS-309844	V (292.401 nm)	0.4853 (ppm)	0.58	0.4853 (ppm)	14926.7760
3/16/2018 18:05:29	LCSS-309844	Y (360.074 nm)	1.01 (Ratio)	0.80	1.01 (Ratio)	741235.15
3/16/2018 18:05:29	LCSS-309844	Y_R (360.074 nm)	1.01 (Ratio)	0.80	1.01 (Ratio)	744213.47
3/16/2018 18:05:29	LCSS-309844	Zn (213.857 nm)	0.4688 (ppm)	0.97	0.4688 (ppm)	13344.5965
3/16/2018 18:08:48	R1801889-001	Ag (328.068 nm)	0.0065 (ppm)	0.40	0.0065 (ppm)	291.0815
3/16/2018 18:08:48	R1801889-001	Al (394.401 nm)	14.4386 (ppm)	0.35	14.4386 (ppm)	148343.4047
3/16/2018 18:08:48	R1801889-001	As (188.980 nm)	0.0180 (ppm)	10.99	0.0180 (ppm)	12.7016
3/16/2018 18:08:48	R1801889-001	B (249.772 nm)	0.0886 (ppm)	0.44	0.0886 (ppm)	2420.2290
3/16/2018 18:08:48	R1801889-001	Ba (230.424 nm)	1.4393 (ppm)	0.75	1.4393 (ppm)	42202.5495
3/16/2018 18:08:48	R1801889-001	Be (313.107 nm)	0.0003 (ppm)	2.32	0.0003 (ppm)	-228.4425
3/16/2018 18:08:48	R1801889-001	Ca (227.547 nm)	74.9989 o (ppm)	0.54	74.9989 (ppm)	3397.6179
3/16/2018 18:08:48	R1801889-001	Cd (214.439 nm)	0.0026 (ppm)	6.50	0.0026 (ppm)	71.4087
3/16/2018 18:08:48	R1801889-001	Co (230.786 nm)	0.0078 (ppm)	6.88	0.0078 (ppm)	68.3446
3/16/2018 18:08:48	R1801889-001	Cr (267.716 nm)	0.1415 (ppm)	0.66	0.1415 (ppm)	5982.3434
3/16/2018 18:08:48	R1801889-001	Cu (327.395 nm)	0.9837 (ppm)	0.62	0.9837 (ppm)	48853.2763
3/16/2018 18:08:48	R1801889-001	Fe (234.350 nm)	81.6384 o (ppm)	0.18	81.6384 (ppm)	793678.9744
3/16/2018 18:08:48	R1801889-001	K (766.491 nm)	2.1790 (ppm)	0.38	2.1790 (ppm)	5194.5097

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:08:48	R1801889-001	Mg (279.078 nm)	10.2372 (ppm)	0.26	10.2372 (ppm)	18663.7734
3/16/2018 18:08:48	R1801889-001	Mn (257.610 nm)	0.6867 (ppm)	0.26	0.6867 (ppm)	186473.3576
3/16/2018 18:08:48	R1801889-001	Mo (202.032 nm)	0.0182 (ppm)	1.71	0.0182 (ppm)	172.5171
3/16/2018 18:08:48	R1801889-001	Na (588.995 nm)	3.0968 (ppm)	0.49	3.0968 (ppm)	104282.8923
3/16/2018 18:08:48	R1801889-001	Ni (230.299 nm)	0.0216 (ppm)	3.17	0.0216 (ppm)	113.1273
3/16/2018 18:08:48	R1801889-001	Pb (220.353 nm)	0.0545 (ppm)	2.96	0.0545 (ppm)	115.0688
3/16/2018 18:08:48	R1801889-001	Sb (217.582 nm)	0.0073 (ppm)	47.25	0.0073 (ppm)	9.1608
3/16/2018 18:08:48	R1801889-001	Se (196.026 nm)	0.0094 (ppm)	9.69	0.0094 (ppm)	7.1578
3/16/2018 18:08:48	R1801889-001	Sn (189.925 nm)	0.0911 (ppm)	1.23	0.0911 (ppm)	103.9601
3/16/2018 18:08:48	R1801889-001	Sr (216.596 nm)	0.5220 (ppm)	0.41	0.5220 (ppm)	6889.2669
3/16/2018 18:08:48	R1801889-001	Ti (336.122 nm)	0.1187 (ppm)	0.94	0.1187 (ppm)	19439.7220
3/16/2018 18:08:48	R1801889-001	Tl (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	17.8803
3/16/2018 18:08:48	R1801889-001	V (292.401 nm)	0.0233 (ppm)	0.62	0.0233 (ppm)	846.1677
3/16/2018 18:08:48	R1801889-001	Y (360.074 nm)	1.01 (Ratio)	0.78	1.01 (Ratio)	741589.65
3/16/2018 18:08:48	R1801889-001	Y_R (360.074 nm)	1.01 (Ratio)	0.76	1.01 (Ratio)	744506.52
3/16/2018 18:08:48	R1801889-001	Zn (213.857 nm)	1.7147 (ppm)	0.54	1.7147 (ppm)	48891.5121
3/16/2018 18:12:08	R1801889-001L	Ag (328.068 nm)	0.0014 (ppm)	6.45	0.0014 (ppm)	-17.0413
3/16/2018 18:12:08	R1801889-001L	Al (394.401 nm)	2.7233 (ppm)	0.75	2.7233 (ppm)	28078.5144
3/16/2018 18:12:08	R1801889-001L	As (188.980 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-1.5757
3/16/2018 18:12:08	R1801889-001L	B (249.772 nm)	0.0175 (ppm)	0.77	0.0175 (ppm)	555.6314
3/16/2018 18:12:08	R1801889-001L	Ba (230.424 nm)	0.2939 (ppm)	1.23	0.2939 (ppm)	8616.8743
3/16/2018 18:12:08	R1801889-001L	Be (313.107 nm)	0.0001 (ppm)	17.67	0.0001 (ppm)	-483.2632
3/16/2018 18:12:08	R1801889-001L	Ca (227.547 nm)	14.6134 (ppm)	0.29	14.6134 (ppm)	665.5330
3/16/2018 18:12:08	R1801889-001L	Cd (214.439 nm)	0.0006 (ppm)	12.44	0.0006 (ppm)	30.6693
3/16/2018 18:12:08	R1801889-001L	Co (230.786 nm)	0.0013 (ppm)	29.93	0.0013 (ppm)	9.2471
3/16/2018 18:12:08	R1801889-001L	Cr (267.716 nm)	0.0291 (ppm)	0.70	0.0291 (ppm)	1227.0468
3/16/2018 18:12:08	R1801889-001L	Cu (327.395 nm)	0.1929 (ppm)	0.75	0.1929 (ppm)	9593.0795
3/16/2018 18:12:08	R1801889-001L	Fe (234.350 nm)	17.3113 o (ppm)	0.65	17.3113 (ppm)	168313.8643
3/16/2018 18:12:08	R1801889-001L	K (766.491 nm)	0.4142 (ppm)	1.45	0.4142 (ppm)	1013.7488
3/16/2018 18:12:08	R1801889-001L	Mg (279.078 nm)	2.0709 (ppm)	0.69	2.0709 (ppm)	3768.9939
3/16/2018 18:12:08	R1801889-001L	Mn (257.610 nm)	0.1415 (ppm)	0.66	0.1415 (ppm)	38438.4941
3/16/2018 18:12:08	R1801889-001L	Mo (202.032 nm)	0.0033 (ppm)	2.21	0.0033 (ppm)	40.0143
3/16/2018 18:12:08	R1801889-001L	Na (588.995 nm)	0.6159 (ppm)	0.77	0.6159 (ppm)	14212.9605
3/16/2018 18:12:08	R1801889-001L	Ni (230.299 nm)	0.0053 (ppm)	9.10	0.0053 (ppm)	11.2870
3/16/2018 18:12:08	R1801889-001L	Pb (220.353 nm)	0.0122 (ppm)	4.75	0.0122 (ppm)	30.5485
3/16/2018 18:12:08	R1801889-001L	Sb (217.582 nm)	0.0032 (ppm)	47.55	0.0032 (ppm)	4.0224
3/16/2018 18:12:08	R1801889-001L	Se (196.026 nm)	0.0024 u (ppm)	99.87	0.0024 (ppm)	1.0793
3/16/2018 18:12:08	R1801889-001L	Sn (189.925 nm)	0.0192 (ppm)	11.17	0.0192 (ppm)	22.3963
3/16/2018 18:12:08	R1801889-001L	Sr (216.596 nm)	0.1069 (ppm)	0.77	0.1069 (ppm)	1411.8819
3/16/2018 18:12:08	R1801889-001L	Ti (336.122 nm)	0.0241 (ppm)	1.02	0.0241 (ppm)	3475.8465
3/16/2018 18:12:08	R1801889-001L	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.3658
3/16/2018 18:12:08	R1801889-001L	V (292.401 nm)	0.0046 (ppm)	5.88	0.0046 (ppm)	274.9178
3/16/2018 18:12:08	R1801889-001L	Y (360.074 nm)	1.03 (Ratio)	0.98	1.03 (Ratio)	752331.39
3/16/2018 18:12:08	R1801889-001L	Y_R (360.074 nm)	1.03 (Ratio)	0.97	1.03 (Ratio)	755415.19
3/16/2018 18:12:08	R1801889-001L	Zn (213.857 nm)	0.3564 (ppm)	0.78	0.3564 (ppm)	10139.2753
3/16/2018 18:15:27	PBW-309874	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-98.4231
3/16/2018 18:15:27	PBW-309874	Al (394.401 nm)	0.0013 (ppm)	12.77	0.0013 (ppm)	136.4321
3/16/2018 18:15:27	PBW-309874	As (188.980 nm)	-0.0023 u (ppm)	85.50	-0.0023 (ppm)	-5.1869
3/16/2018 18:15:27	PBW-309874	B (249.772 nm)	0.0003 (ppm)	41.97	0.0003 (ppm)	104.8133
3/16/2018 18:15:27	PBW-309874	Ba (230.424 nm)	0.0002 (ppm)	24.95	0.0002 (ppm)	5.3013
3/16/2018 18:15:27	PBW-309874	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-556.6048

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:15:27	PBW-309874	Ca (227.547 nm)	-0.0229 u (ppm)	> 100.00	-0.0229 (ppm)	3.3264
3/16/2018 18:15:27	PBW-309874	Cd (214.439 nm)	-0.0002 u (ppm)	56.20	-0.0002 (ppm)	13.3263
3/16/2018 18:15:27	PBW-309874	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8327
3/16/2018 18:15:27	PBW-309874	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.1598
3/16/2018 18:15:27	PBW-309874	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.4848
3/16/2018 18:15:27	PBW-309874	Fe (234.350 nm)	0.0092 (ppm)	27.24	0.0092 (ppm)	109.5770
3/16/2018 18:15:27	PBW-309874	K (766.491 nm)	-0.0073 u (ppm)	13.41	-0.0073 (ppm)	15.1508
3/16/2018 18:15:27	PBW-309874	Mg (279.078 nm)	0.0028 (ppm)	12.38	0.0028 (ppm)	-2.9572
3/16/2018 18:15:27	PBW-309874	Mn (257.610 nm)	0.0001 (ppm)	32.89	0.0001 (ppm)	38.8049
3/16/2018 18:15:27	PBW-309874	Mo (202.032 nm)	-0.0004 u (ppm)	9.39	-0.0004 (ppm)	6.3757
3/16/2018 18:15:27	PBW-309874	Na (588.995 nm)	0.0111 (ppm)	7.07	0.0111 (ppm)	-7745.2127
3/16/2018 18:15:27	PBW-309874	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-21.1062
3/16/2018 18:15:27	PBW-309874	Pb (220.353 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	7.6234
3/16/2018 18:15:27	PBW-309874	Sb (217.582 nm)	0.0020 (ppm)	27.79	0.0020 (ppm)	2.4914
3/16/2018 18:15:27	PBW-309874	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.5080
3/16/2018 18:15:27	PBW-309874	Sn (189.925 nm)	-0.0009 u (ppm)	74.84	-0.0009 (ppm)	-0.3873
3/16/2018 18:15:27	PBW-309874	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.7056
3/16/2018 18:15:27	PBW-309874	Ti (336.122 nm)	0.0006 (ppm)	6.64	0.0006 (ppm)	-481.5634
3/16/2018 18:15:27	PBW-309874	Tl (351.923 nm)	-0.0007 u (ppm)	19.97	-0.0007 (ppm)	14.9442
3/16/2018 18:15:27	PBW-309874	V (292.401 nm)	-0.0003 u (ppm)	73.25	-0.0003 (ppm)	127.7727
3/16/2018 18:15:27	PBW-309874	Y (360.074 nm)	1.04 (Ratio)	0.95	1.04 (Ratio)	759467.50
3/16/2018 18:15:27	PBW-309874	Y_R (360.074 nm)	1.04 (Ratio)	0.95	1.04 (Ratio)	762638.90
3/16/2018 18:15:27	PBW-309874	Zn (213.857 nm)	0.0016 (ppm)	4.25	0.0016 (ppm)	14.8017
3/16/2018 18:18:47	LCSW-309874	Ag (328.068 nm)	0.0489 (ppm)	1.83	0.0489 (ppm)	2868.5974
3/16/2018 18:18:47	LCSW-309874	Al (394.401 nm)	1.8174 (ppm)	2.22	1.8174 (ppm)	18779.2734
3/16/2018 18:18:47	LCSW-309874	As (188.980 nm)	0.0376 (ppm)	10.62	0.0376 (ppm)	29.8898
3/16/2018 18:18:47	LCSW-309874	B (249.772 nm)	0.9584 (ppm)	2.30	0.9584 (ppm)	25250.2703
3/16/2018 18:18:47	LCSW-309874	Be (230.424 nm)	2.0195 (ppm)	1.59	2.0195 (ppm)	59213.1986
3/16/2018 18:18:47	LCSW-309874	Be (313.107 nm)	0.0487 (ppm)	2.28	0.0487 (ppm)	64081.8176
3/16/2018 18:18:47	LCSW-309874	Ca (227.547 nm)	1.8041 (ppm)	6.64	1.8041 (ppm)	85.9881
3/16/2018 18:18:47	LCSW-309874	Cd (214.439 nm)	0.0514 (ppm)	1.94	0.0514 (ppm)	1080.7715
3/16/2018 18:18:47	LCSW-309874	Co (230.786 nm)	0.5110 (ppm)	2.29	0.5110 (ppm)	4595.1546
3/16/2018 18:18:47	LCSW-309874	Cr (267.716 nm)	0.2021 (ppm)	2.02	0.2021 (ppm)	8545.5604
3/16/2018 18:18:47	LCSW-309874	Cu (327.395 nm)	0.2418 (ppm)	1.22	0.2418 (ppm)	12019.4722
3/16/2018 18:18:47	LCSW-309874	Fe (234.350 nm)	0.9923 (ppm)	2.18	0.9923 (ppm)	9666.4931
3/16/2018 18:18:47	LCSW-309874	K (766.491 nm)	18.8676 (ppm)	2.37	18.8676 (ppm)	44729.5673
3/16/2018 18:18:47	LCSW-309874	Mg (279.078 nm)	1.9321 (ppm)	2.15	1.9321 (ppm)	3515.8660
3/16/2018 18:18:47	LCSW-309874	Mn (257.610 nm)	0.4971 (ppm)	2.17	0.4971 (ppm)	134989.0201
3/16/2018 18:18:47	LCSW-309874	Mo (202.032 nm)	0.4855 (ppm)	2.01	0.4855 (ppm)	4334.3671
3/16/2018 18:18:47	LCSW-309874	Na (588.995 nm)	18.9576 (ppm)	2.44	18.9576 (ppm)	680125.3039
3/16/2018 18:18:47	LCSW-309874	Ni (230.299 nm)	0.4985 (ppm)	2.27	0.4985 (ppm)	3085.7039
3/16/2018 18:18:47	LCSW-309874	Pb (220.353 nm)	0.5048 (ppm)	2.20	0.5048 (ppm)	1016.0954
3/16/2018 18:18:47	LCSW-309874	Sb (217.582 nm)	0.4679 (ppm)	1.40	0.4679 (ppm)	590.6827
3/16/2018 18:18:47	LCSW-309874	Se (196.026 nm)	1.0473 (ppm)	1.87	1.0473 (ppm)	911.0628
3/16/2018 18:18:47	LCSW-309874	Sn (189.925 nm)	4.9737 (ppm)	1.64	4.9737 (ppm)	5640.7773
3/16/2018 18:18:47	LCSW-309874	Sr (216.596 nm)	2.0312 (ppm)	2.17	2.0312 (ppm)	26803.7152
3/16/2018 18:18:47	LCSW-309874	Ti (336.122 nm)	0.4849 (ppm)	2.29	0.4849 (ppm)	81202.6381
3/16/2018 18:18:47	LCSW-309874	Tl (351.923 nm)	1.8403 (ppm)	2.27	1.8403 (ppm)	4097.3813
3/16/2018 18:18:47	LCSW-309874	V (292.401 nm)	0.4839 (ppm)	2.18	0.4839 (ppm)	14884.7439
3/16/2018 18:18:47	LCSW-309874	Y (360.074 nm)	1.02 (Ratio)	1.45	1.02 (Ratio)	746320.36
3/16/2018 18:18:47	LCSW-309874	Y_R (360.074 nm)	1.02 (Ratio)	1.45	1.02 (Ratio)	749292.99

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:18:47	LCSW-309874	Zn (213.857 nm)	0.4794 (ppm)	2.12	0.4794 (ppm)	13646.3546
3/16/2018 18:22:06	R1802075-001 10X	Ag (328.068 nm)	0.0002 (ppm)	71.83	0.0002 (ppm)	-86.4661
3/16/2018 18:22:06	R1802075-001 10X	Al (394.401 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	126.8532
3/16/2018 18:22:06	R1802075-001 10X	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-3.0145
3/16/2018 18:22:06	R1802075-001 10X	B (249.772 nm)	0.0094 (ppm)	1.30	0.0094 (ppm)	343.8354
3/16/2018 18:22:06	R1802075-001 10X	Ba (230.424 nm)	0.0006 (ppm)	23.81	0.0006 (ppm)	17.3212
3/16/2018 18:22:06	R1802075-001 10X	Be (313.107 nm)	0.0000 (ppm)	17.42	0.0000 (ppm)	-548.3357
3/16/2018 18:22:06	R1802075-001 10X	Ca (227.547 nm)	0.1331 (ppm)	25.26	0.1331 (ppm)	10.3850
3/16/2018 18:22:06	R1802075-001 10X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	19.0338
3/16/2018 18:22:06	R1802075-001 10X	Co (230.786 nm)	0.0003 (ppm)	62.87	0.0003 (ppm)	0.3423
3/16/2018 18:22:06	R1802075-001 10X	Cr (267.716 nm)	0.0003 (ppm)	37.30	0.0003 (ppm)	10.9267
3/16/2018 18:22:06	R1802075-001 10X	Cu (327.395 nm)	1.3864 (ppm)	1.13	1.3864 (ppm)	68842.6024
3/16/2018 18:22:06	R1802075-001 10X	Fe (234.350 nm)	0.0442 (ppm)	1.22	0.0442 (ppm)	449.0424
3/16/2018 18:22:06	R1802075-001 10X	K (766.491 nm)	0.0561 (ppm)	14.86	0.0561 (ppm)	165.3847
3/16/2018 18:22:06	R1802075-001 10X	Mg (279.078 nm)	0.0185 (ppm)	5.07	0.0185 (ppm)	25.7215
3/16/2018 18:22:06	R1802075-001 10X	Mn (257.610 nm)	0.0094 (ppm)	1.06	0.0094 (ppm)	2550.5687
3/16/2018 18:22:06	R1802075-001 10X	Mo (202.032 nm)	0.0005 (ppm)	69.17	0.0005 (ppm)	14.6751
3/16/2018 18:22:06	R1802075-001 10X	Na (588.995 nm)	23.8670 (ppm)	0.99	23.8670 (ppm)	858363.6570
3/16/2018 18:22:06	R1802075-001 10X	Ni (230.299 nm)	0.0134 (ppm)	2.59	0.0134 (ppm)	61.5678
3/16/2018 18:22:06	R1802075-001 10X	Pb (220.353 nm)	0.0114 (ppm)	14.95	0.0114 (ppm)	28.9479
3/16/2018 18:22:06	R1802075-001 10X	Sb (217.582 nm)	0.0006 (ppm)	93.25	0.0006 (ppm)	0.6999
3/16/2018 18:22:06	R1802075-001 10X	Se (196.026 nm)	0.0014 (ppm)	51.12	0.0014 (ppm)	0.1917
3/16/2018 18:22:06	R1802075-001 10X	Sn (189.925 nm)	0.0019 (ppm)	19.10	0.0019 (ppm)	2.8114
3/16/2018 18:22:06	R1802075-001 10X	Sr (216.596 nm)	0.0005 (ppm)	74.63	0.0005 (ppm)	7.3215
3/16/2018 18:22:06	R1802075-001 10X	Ti (336.122 nm)	0.0004 (ppm)	10.97	0.0004 (ppm)	-512.0426
3/16/2018 18:22:06	R1802075-001 10X	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	14.4779
3/16/2018 18:22:06	R1802075-001 10X	V (292.401 nm)	-0.0002 u (ppm)	70.30	-0.0002 (ppm)	128.5794
3/16/2018 18:22:06	R1802075-001 10X	Y (360.074 nm)	1.02 (Ratio)	1.07	1.02 (Ratio)	742410.89
3/16/2018 18:22:06	R1802075-001 10X	Y_R (360.074 nm)	1.02 (Ratio)	1.07	1.02 (Ratio)	745395.89
3/16/2018 18:22:06	R1802075-001 10X	Zn (213.857 nm)	0.2767 (ppm)	1.10	0.2767 (ppm)	7864.6830
3/16/2018 18:25:26	R1802075-001L 10X	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-94.9822
3/16/2018 18:25:26	R1802075-001L 10X	Al (394.401 nm)	-0.0010 u (ppm)	87.55	-0.0010 (ppm)	112.2322
3/16/2018 18:25:26	R1802075-001L 10X	As (188.980 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-4.3134
3/16/2018 18:25:26	R1802075-001L 10X	B (249.772 nm)	0.0010 (ppm)	4.65	0.0010 (ppm)	123.1848
3/16/2018 18:25:26	R1802075-001L 10X	Ba (230.424 nm)	0.0001 (ppm)	33.30	0.0001 (ppm)	3.1364
3/16/2018 18:25:26	R1802075-001L 10X	Be (313.107 nm)	0.0000 (ppm)	59.91	0.0000 (ppm)	-543.8383
3/16/2018 18:25:26	R1802075-001L 10X	Ca (227.547 nm)	0.0593 (ppm)	76.46	0.0593 (ppm)	7.0449
3/16/2018 18:25:26	R1802075-001L 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.3068
3/16/2018 18:25:26	R1802075-001L 10X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8947
3/16/2018 18:25:26	R1802075-001L 10X	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-1.7116
3/16/2018 18:25:26	R1802075-001L 10X	Cu (327.395 nm)	0.2747 (ppm)	0.54	0.2747 (ppm)	13655.4857
3/16/2018 18:25:26	R1802075-001L 10X	Fe (234.350 nm)	0.0088 (ppm)	1.46	0.0088 (ppm)	105.8562
3/16/2018 18:25:26	R1802075-001L 10X	K (766.491 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	34.5858
3/16/2018 18:25:26	R1802075-001L 10X	Mg (279.078 nm)	0.0051 (ppm)	52.68	0.0051 (ppm)	1.2356
3/16/2018 18:25:26	R1802075-001L 10X	Mn (257.610 nm)	0.0019 (ppm)	0.75	0.0019 (ppm)	523.8169
3/16/2018 18:25:26	R1802075-001L 10X	Mo (202.032 nm)	-0.0005 u (ppm)	14.35	-0.0005 (ppm)	5.9298
3/16/2018 18:25:26	R1802075-001L 10X	Na (588.995 nm)	4.9844 (ppm)	0.86	4.9844 (ppm)	172814.5781
3/16/2018 18:25:26	R1802075-001L 10X	Ni (230.299 nm)	0.0025 (ppm)	23.23	0.0025 (ppm)	-6.0658
3/16/2018 18:25:26	R1802075-001L 10X	Pb (220.353 nm)	0.0026 (ppm)	56.34	0.0026 (ppm)	11.2182
3/16/2018 18:25:26	R1802075-001L 10X	Sb (217.582 nm)	0.0008 (ppm)	84.36	0.0008 (ppm)	1.0160
3/16/2018 18:25:26	R1802075-001L 10X	Se (196.026 nm)	0.0026 (ppm)	> 100.00	0.0026 (ppm)	1.1795

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:25:26	R1802075-001L 10X	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.1634
3/16/2018 18:25:26	R1802075-001L 10X	Sr (216.596 nm)	-0.0002 u (ppm)	47.22	-0.0002 (ppm)	-2.6037
3/16/2018 18:25:26	R1802075-001L 10X	Ti (336.122 nm)	-0.0001 u (ppm)	75.76	-0.0001 (ppm)	-603.0713
3/16/2018 18:25:26	R1802075-001L 10X	Ti (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	16.1533
3/16/2018 18:25:26	R1802075-001L 10X	V (292.401 nm)	-0.0002 u (ppm)	38.17	-0.0002 (ppm)	128.5827
3/16/2018 18:25:26	R1802075-001L 10X	Y (360.074 nm)	1.03 (Ratio)	0.86	1.03 (Ratio)	749890.56
3/16/2018 18:25:26	R1802075-001L 10X	Y_R (360.074 nm)	1.03 (Ratio)	0.85	1.03 (Ratio)	752890.39
3/16/2018 18:25:26	R1802075-001L 10X	Zn (213.857 nm)	0.0551 (ppm)	1.13	0.0551 (ppm)	1540.4451
3/16/2018 18:28:45	Continuing Calibration Verification	Ag (328.068 nm)	0.4795 (ppm)	2.47	0.4795 (ppm)	29000.8301
3/16/2018 18:28:45	Continuing Calibration Verification	Al (394.401 nm)	9.5199 (ppm)	2.21	9.5199 (ppm)	97850.4506
3/16/2018 18:28:45	Continuing Calibration Verification	As (188.980 nm)	0.9670 (ppm)	1.63	0.9670 (ppm)	845.7322
3/16/2018 18:28:45	Continuing Calibration Verification	B (249.772 nm)	2.4225 (ppm)	2.27	2.4225 (ppm)	63675.4366
3/16/2018 18:28:45	Continuing Calibration Verification	Ba (230.424 nm)	10.0829 (ppm)	2.02	10.0829 (ppm)	295645.1037
3/16/2018 18:28:45	Continuing Calibration Verification	Be (313.107 nm)	0.2497 (ppm)	2.34	0.2497 (ppm)	330735.9425
3/16/2018 18:28:45	Continuing Calibration Verification	Ca (227.547 nm)	23.8784 (ppm)	2.51	23.8784 (ppm)	1084.7201
3/16/2018 18:28:45	Continuing Calibration Verification	Cd (214.439 nm)	0.5005 (ppm)	2.37	0.5005 (ppm)	10376.1079
3/16/2018 18:28:45	Continuing Calibration Verification	Co (230.786 nm)	2.5601 (ppm)	2.34	2.5601 (ppm)	23030.6075
3/16/2018 18:28:45	Continuing Calibration Verification	Cr (267.716 nm)	0.5178 (ppm)	2.45	0.5178 (ppm)	21900.0418
3/16/2018 18:28:45	Continuing Calibration Verification	Cu (327.395 nm)	1.2046 (ppm)	1.64	1.2046 (ppm)	59817.6277
3/16/2018 18:28:45	Continuing Calibration Verification	Fe (234.350 nm)	4.9903 (ppm)	2.40	4.9903 (ppm)	48533.3839
3/16/2018 18:28:45	Continuing Calibration Verification	K (766.491 nm)	24.3514 (ppm)	2.48	24.3514 (ppm)	57720.4790
3/16/2018 18:28:45	Continuing Calibration Verification	Mg (279.078 nm)	24.6103 (ppm)	2.28	24.6103 (ppm)	44879.2978
3/16/2018 18:28:45	Continuing Calibration Verification	Mn (257.610 nm)	0.7618 (ppm)	2.34	0.7618 (ppm)	206864.4250
3/16/2018 18:28:45	Continuing Calibration Verification	Mo (202.032 nm)	2.4710 (ppm)	2.34	2.4710 (ppm)	22017.0139
3/16/2018 18:28:45	Continuing Calibration Verification	Na (588.995 nm)	24.3332 (ppm)	2.20	24.3332 (ppm)	875290.7661
3/16/2018 18:28:45	Continuing Calibration Verification	Ni (230.299 nm)	2.0426 (ppm)	2.22	2.0426 (ppm)	12709.8051
3/16/2018 18:28:45	Continuing Calibration Verification	Pb (220.353 nm)	0.4962 (ppm)	2.36	0.4962 (ppm)	998.8392
3/16/2018 18:28:45	Continuing Calibration Verification	Sb (217.582 nm)	4.8920 (ppm)	2.06	4.8920 (ppm)	6175.6486
3/16/2018 18:28:45	Continuing Calibration Verification	Se (196.026 nm)	0.4875 (ppm)	2.78	0.4875 (ppm)	423.5333
3/16/2018 18:28:45	Continuing Calibration Verification	Sn (189.925 nm)	5.0659 (ppm)	1.83	5.0659 (ppm)	5745.3181
3/16/2018 18:28:45	Continuing Calibration Verification	Sr (216.596 nm)	2.4987 (ppm)	1.81	2.4987 (ppm)	32972.6413
3/16/2018 18:28:45	Continuing Calibration Verification	Ti (336.122 nm)	2.4547 (ppm)	2.34	2.4547 (ppm)	413480.4386
3/16/2018 18:28:45	Continuing Calibration Verification	Ti (351.923 nm)	0.9790 (ppm)	2.52	0.9790 (ppm)	2187.5233
3/16/2018 18:28:45	Continuing Calibration Verification	V (292.401 nm)	2.4949 (ppm)	2.29	2.4949 (ppm)	76179.4656
3/16/2018 18:28:45	Continuing Calibration Verification	Y (360.074 nm)	1.00 (Ratio)	2.06	1.00 (Ratio)	730091.66
3/16/2018 18:28:45	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	2.06	1.00 (Ratio)	732886.24
3/16/2018 18:28:45	Continuing Calibration Verification	Zn (213.857 nm)	0.9602 (ppm)	2.29	0.9602 (ppm)	27363.4368
3/16/2018 18:32:04	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.0952
3/16/2018 18:32:04	Continuing Calibration Blank	Al (394.401 nm)	0.0006 (ppm)	93.01	0.0006 (ppm)	129.1983
3/16/2018 18:32:04	Continuing Calibration Blank	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.1832
3/16/2018 18:32:04	Continuing Calibration Blank	B (249.772 nm)	0.0004 (ppm)	90.15	0.0004 (ppm)	106.0208
3/16/2018 18:32:04	Continuing Calibration Blank	Ba (230.424 nm)	0.0015 (ppm)	14.22	0.0015 (ppm)	43.4496
3/16/2018 18:32:04	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	19.41	0.0000 (ppm)	-504.4164
3/16/2018 18:32:04	Continuing Calibration Blank	Ca (227.547 nm)	0.0396 u (ppm)	> 100.00	0.0396 (ppm)	6.1528
3/16/2018 18:32:04	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	19.2242
3/16/2018 18:32:04	Continuing Calibration Blank	Co (230.786 nm)	0.0002 (ppm)	82.89	0.0002 (ppm)	-0.3226
3/16/2018 18:32:04	Continuing Calibration Blank	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.5966
3/16/2018 18:32:04	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	12.66	0.0001 (ppm)	22.7039
3/16/2018 18:32:04	Continuing Calibration Blank	Fe (234.350 nm)	0.0016 (ppm)	20.74	0.0016 (ppm)	35.2483
3/16/2018 18:32:04	Continuing Calibration Blank	K (766.491 nm)	0.0114 (ppm)	53.34	0.0114 (ppm)	59.6243
3/16/2018 18:32:04	Continuing Calibration Blank	Mg (279.078 nm)	0.0038 (ppm)	15.33	0.0038 (ppm)	-1.1185

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:32:04	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	20.44	0.0001 (ppm)	28.8857
3/16/2018 18:32:04	Continuing Calibration Blank	Mo (202.032 nm)	0.0015 (ppm)	10.34	0.0015 (ppm)	23.9205
3/16/2018 18:32:04	Continuing Calibration Blank	Na (588.995 nm)	0.0099 (ppm)	18.47	0.0099 (ppm)	-7789.3530
3/16/2018 18:32:04	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-21.3675
3/16/2018 18:32:04	Continuing Calibration Blank	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.8562
3/16/2018 18:32:04	Continuing Calibration Blank	Sb (217.582 nm)	0.0033 (ppm)	67.56	0.0033 (ppm)	4.1274
3/16/2018 18:32:04	Continuing Calibration Blank	Se (196.026 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-0.4133
3/16/2018 18:32:04	Continuing Calibration Blank	Sn (189.925 nm)	0.0018 (ppm)	25.90	0.0018 (ppm)	2.6804
3/16/2018 18:32:04	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	32.10	0.0002 (ppm)	3.5929
3/16/2018 18:32:04	Continuing Calibration Blank	Ti (336.122 nm)	0.0016 (ppm)	9.90	0.0016 (ppm)	-321.6137
3/16/2018 18:32:04	Continuing Calibration Blank	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	19.0243
3/16/2018 18:32:04	Continuing Calibration Blank	V (292.401 nm)	0.0002 (ppm)	49.76	0.0002 (ppm)	141.8082
3/16/2018 18:32:04	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	1.14	1.02 (Ratio)	745237.59
3/16/2018 18:32:04	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	1.14	1.02 (Ratio)	748251.00
3/16/2018 18:32:04	Continuing Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	28.20	0.0002 (ppm)	-24.9534
3/16/2018 18:35:22	PBW-309873	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-107.4654
3/16/2018 18:35:22	PBW-309873	Al (394.401 nm)	0.0032 (ppm)	14.92	0.0032 (ppm)	155.1103
3/16/2018 18:35:22	PBW-309873	As (188.980 nm)	-0.0043 u (ppm)	50.16	-0.0043 (ppm)	-6.9061
3/16/2018 18:35:22	PBW-309873	B (249.772 nm)	0.0009 (ppm)	10.93	0.0009 (ppm)	120.1908
3/16/2018 18:35:22	PBW-309873	Ba (230.424 nm)	0.0002 (ppm)	78.60	0.0002 (ppm)	4.8286
3/16/2018 18:35:22	PBW-309873	Be (313.107 nm)	0.0000 (ppm)	82.83	0.0000 (ppm)	-544.2537
3/16/2018 18:35:22	PBW-309873	Ca (227.547 nm)	0.0178 u (ppm)	> 100.00	0.0178 (ppm)	5.1675
3/16/2018 18:35:22	PBW-309873	Cd (214.439 nm)	-0.0002 u (ppm)	97.48	-0.0002 (ppm)	13.8797
3/16/2018 18:35:22	PBW-309873	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.4611
3/16/2018 18:35:22	PBW-309873	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8884
3/16/2018 18:35:22	PBW-309873	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.6144
3/16/2018 18:35:22	PBW-309873	Fe (234.350 nm)	0.0055 (ppm)	2.51	0.0055 (ppm)	73.2846
3/16/2018 18:35:22	PBW-309873	K (766.491 nm)	0.1125 (ppm)	6.57	0.1125 (ppm)	299.1535
3/16/2018 18:35:22	PBW-309873	Mg (279.078 nm)	0.0049 (ppm)	25.78	0.0049 (ppm)	0.9067
3/16/2018 18:35:22	PBW-309873	Mn (257.610 nm)	0.0017 (ppm)	1.27	0.0017 (ppm)	455.3772
3/16/2018 18:35:22	PBW-309873	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.3384
3/16/2018 18:35:22	PBW-309873	Na (588.995 nm)	0.0326 (ppm)	4.14	0.0326 (ppm)	-6964.9957
3/16/2018 18:35:22	PBW-309873	Ni (230.299 nm)	0.0005 (ppm)	32.68	0.0005 (ppm)	-18.4865
3/16/2018 18:35:22	PBW-309873	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.6246
3/16/2018 18:35:22	PBW-309873	Sb (217.582 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.6837
3/16/2018 18:35:22	PBW-309873	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.4849
3/16/2018 18:35:22	PBW-309873	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.5468
3/16/2018 18:35:22	PBW-309873	Sr (216.596 nm)	-0.0002 u (ppm)	30.39	-0.0002 (ppm)	-1.7514
3/16/2018 18:35:22	PBW-309873	Ti (336.122 nm)	0.0011 (ppm)	14.21	0.0011 (ppm)	-406.6737
3/16/2018 18:35:22	PBW-309873	Tl (351.923 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	12.1124
3/16/2018 18:35:22	PBW-309873	V (292.401 nm)	-0.0003 u (ppm)	68.32	-0.0003 (ppm)	127.7259
3/16/2018 18:35:22	PBW-309873	Y (360.074 nm)	1.04 (Ratio)	1.07	1.04 (Ratio)	763683.05
3/16/2018 18:35:22	PBW-309873	Y_R (360.074 nm)	1.04 (Ratio)	1.07	1.04 (Ratio)	766776.76
3/16/2018 18:35:22	PBW-309873	Zn (213.857 nm)	0.0032 (ppm)	0.30	0.0032 (ppm)	61.1872
3/16/2018 18:38:41	LCSW-309873	Ag (328.068 nm)	0.0495 (ppm)	1.10	0.0495 (ppm)	2905.6862
3/16/2018 18:38:41	LCSW-309873	Al (394.401 nm)	1.8542 (ppm)	0.81	1.8542 (ppm)	19157.1821
3/16/2018 18:38:41	LCSW-309873	As (188.980 nm)	0.0389 (ppm)	12.48	0.0389 (ppm)	31.0451
3/16/2018 18:38:41	LCSW-309873	B (249.772 nm)	0.9733 (ppm)	0.79	0.9733 (ppm)	25639.5773
3/16/2018 18:38:41	LCSW-309873	Ba (230.424 nm)	2.0504 (ppm)	0.61	2.0504 (ppm)	60120.5465
3/16/2018 18:38:41	LCSW-309873	Be (313.107 nm)	0.0494 (ppm)	0.68	0.0494 (ppm)	64980.3216
3/16/2018 18:38:41	LCSW-309873	Ca (227.547 nm)	1.9199 (ppm)	1.61	1.9199 (ppm)	91.2238

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:38:41	LCSW-309873	Cd (214.439 nm)	0.0520 (ppm)	1.12	0.0520 (ppm)	1092.8455
3/16/2018 18:38:41	LCSW-309873	Co (230.786 nm)	0.5189 (ppm)	0.52	0.5189 (ppm)	4666.2527
3/16/2018 18:38:41	LCSW-309873	Cr (267.716 nm)	0.2055 (ppm)	0.61	0.2055 (ppm)	8691.4414
3/16/2018 18:38:41	LCSW-309873	Cu (327.395 nm)	0.2462 (ppm)	0.56	0.2462 (ppm)	12239.7200
3/16/2018 18:38:41	LCSW-309873	Fe (234.350 nm)	1.0137 (ppm)	0.68	1.0137 (ppm)	9875.1171
3/16/2018 18:38:41	LCSW-309873	K (766.491 nm)	19.3710 (ppm)	0.97	19.3710 (ppm)	45922.1876
3/16/2018 18:38:41	LCSW-309873	Mg (279.078 nm)	1.9651 (ppm)	0.91	1.9651 (ppm)	3576.1012
3/16/2018 18:38:41	LCSW-309873	Mn (257.610 nm)	0.5048 (ppm)	0.59	0.5048 (ppm)	137066.5581
3/16/2018 18:38:41	LCSW-309873	Mo (202.032 nm)	0.4920 (ppm)	0.75	0.4920 (ppm)	4392.0645
3/16/2018 18:38:41	LCSW-309873	Na (588.995 nm)	19.3845 (ppm)	0.97	19.3845 (ppm)	695625.0742
3/16/2018 18:38:41	LCSW-309873	Ni (230.299 nm)	0.5042 (ppm)	0.62	0.5042 (ppm)	3121.0726
3/16/2018 18:38:41	LCSW-309873	Pb (220.353 nm)	0.5139 (ppm)	0.35	0.5139 (ppm)	1034.2710
3/16/2018 18:38:41	LCSW-309873	Sb (217.582 nm)	0.4726 (ppm)	1.22	0.4726 (ppm)	596.5514
3/16/2018 18:38:41	LCSW-309873	Se (196.026 nm)	1.0506 (ppm)	1.01	1.0506 (ppm)	913.9900
3/16/2018 18:38:41	LCSW-309873	Sn (189.925 nm)	5.0172 (ppm)	0.81	5.0172 (ppm)	5690.1496
3/16/2018 18:38:41	LCSW-309873	Sr (216.596 nm)	2.0149 (ppm)	0.79	2.0149 (ppm)	26589.5612
3/16/2018 18:38:41	LCSW-309873	Ti (336.122 nm)	0.4921 (ppm)	0.70	0.4921 (ppm)	82425.0473
3/16/2018 18:38:41	LCSW-309873	Tl (351.923 nm)	1.8684 (ppm)	0.86	1.8684 (ppm)	4159.6600
3/16/2018 18:38:41	LCSW-309873	V (292.401 nm)	0.4914 (ppm)	0.65	0.4914 (ppm)	15114.0805
3/16/2018 18:38:41	LCSW-309873	Y (360.074 nm)	1.03 (Ratio)	1.09	1.03 (Ratio)	752641.36
3/16/2018 18:38:41	LCSW-309873	Y_R (360.074 nm)	1.03 (Ratio)	1.09	1.03 (Ratio)	755508.87
3/16/2018 18:38:41	LCSW-309873	Zn (213.857 nm)	0.5007 (ppm)	0.59	0.5007 (ppm)	14256.1557
3/16/2018 18:42:00	R1802055-001 100X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-8.7990
3/16/2018 18:42:00	R1802055-001 100X	Al (394.401 nm)	0.0078 (ppm)	4.48	0.0078 (ppm)	202.6980
3/16/2018 18:42:00	R1802055-001 100X	As (188.980 nm)	0.0017 (ppm)	22.80	0.0017 (ppm)	-1.6554
3/16/2018 18:42:00	R1802055-001 100X	B (249.772 nm)	0.1304 (ppm)	0.64	0.1304 (ppm)	3517.5217
3/16/2018 18:42:00	R1802055-001 100X	Ba (230.424 nm)	0.0149 (ppm)	0.93	0.0149 (ppm)	436.4434
3/16/2018 18:42:00	R1802055-001 100X	Be (313.107 nm)	0.0000 (ppm)	28.19	0.0000 (ppm)	-543.3954
3/16/2018 18:42:00	R1802055-001 100X	Ca (227.547 nm)	1.0719 (ppm)	7.08	1.0719 (ppm)	52.8598
3/16/2018 18:42:00	R1802055-001 100X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	17.5903
3/16/2018 18:42:00	R1802055-001 100X	Co (230.786 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	1.8134
3/16/2018 18:42:00	R1802055-001 100X	Cr (267.716 nm)	0.0025 (ppm)	4.55	0.0025 (ppm)	104.3207
3/16/2018 18:42:00	R1802055-001 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.0737
3/16/2018 18:42:00	R1802055-001 100X	Fe (234.350 nm)	0.0596 (ppm)	1.13	0.0596 (ppm)	599.2944
3/16/2018 18:42:00	R1802055-001 100X	K (766.491 nm)	8.1085 (ppm)	0.75	8.1085 (ppm)	19241.3795
3/16/2018 18:42:00	R1802055-001 100X	Mg (279.078 nm)	1.4247 (ppm)	0.46	1.4247 (ppm)	2590.3986
3/16/2018 18:42:00	R1802055-001 100X	Mn (257.610 nm)	0.0021 (ppm)	1.90	0.0021 (ppm)	578.3608
3/16/2018 18:42:00	R1802055-001 100X	Mo (202.032 nm)	0.0006 (ppm)	71.74	0.0006 (ppm)	16.0747
3/16/2018 18:42:00	R1802055-001 100X	Na (588.995 nm)	22.4784 (ppm)	0.77	22.4784 (ppm)	807951.4272
3/16/2018 18:42:00	R1802055-001 100X	Ni (230.299 nm)	0.0016 (ppm)	26.05	0.0016 (ppm)	-12.0665
3/16/2018 18:42:00	R1802055-001 100X	Pb (220.353 nm)	-0.0013 u (ppm)	91.11	-0.0013 (ppm)	3.5364
3/16/2018 18:42:00	R1802055-001 100X	Sb (217.582 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	2.1084
3/16/2018 18:42:00	R1802055-001 100X	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-0.2304
3/16/2018 18:42:00	R1802055-001 100X	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3039
3/16/2018 18:42:00	R1802055-001 100X	Sr (216.596 nm)	0.0194 (ppm)	1.45	0.0194 (ppm)	256.4928
3/16/2018 18:42:00	R1802055-001 100X	Ti (336.122 nm)	0.0026 (ppm)	3.05	0.0026 (ppm)	-140.4989
3/16/2018 18:42:00	R1802055-001 100X	Tl (351.923 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	23.2760
3/16/2018 18:42:00	R1802055-001 100X	V (292.401 nm)	0.0004 (ppm)	38.75	0.0004 (ppm)	148.3640
3/16/2018 18:42:00	R1802055-001 100X	Y (360.074 nm)	1.02 (Ratio)	1.03	1.02 (Ratio)	745686.75
3/16/2018 18:42:00	R1802055-001 100X	Y_R (360.074 nm)	1.02 (Ratio)	1.03	1.02 (Ratio)	748591.72
3/16/2018 18:42:00	R1802055-001 100X	Zn (213.857 nm)	0.0027 (ppm)	1.90	0.0027 (ppm)	45.7145



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Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:45:18	R1802055-001 100X -002	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.8250
3/16/2018 18:45:18	R1802055-001 100X	Al (394.401 nm)	0.0140 (ppm)	2.09	0.0140 (ppm)	266.7810
3/16/2018 18:45:18	R1802055-001 100X	As (188.980 nm)	0.0039 (ppm)	55.31	0.0039 (ppm)	0.2691
3/16/2018 18:45:18	R1802055-001 100X	B (249.772 nm)	0.3463 (ppm)	0.13	0.3463 (ppm)	9184.1373
3/16/2018 18:45:18	R1802055-001 100X	Ba (230.424 nm)	0.0145 (ppm)	1.88	0.0145 (ppm)	423.3637
3/16/2018 18:45:18	R1802055-001 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-564.2828
3/16/2018 18:45:18	R1802055-001 100X	Ca (227.547 nm)	2.7944 (ppm)	0.99	2.7944 (ppm)	130.7911
3/16/2018 18:45:18	R1802055-001 100X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.1048
3/16/2018 18:45:18	R1802055-001 100X	Co (230.786 nm)	0.0009 (ppm)	31.94	0.0009 (ppm)	6.2335
3/16/2018 18:45:18	R1802055-001 100X	Cr (267.716 nm)	0.0075 (ppm)	0.78	0.0075 (ppm)	314.6202
3/16/2018 18:45:18	R1802055-001 100X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	23.6787
3/16/2018 18:45:18	R1802055-001 100X	Fe (234.350 nm)	0.1370 (ppm)	0.13	0.1370 (ppm)	1351.4661
3/16/2018 18:45:18	R1802055-001 100X	K (766.491 nm)	24.7501 (ppm)	0.41	24.7501 (ppm)	58665.0263
3/16/2018 18:45:18	R1802055-001 100X	Mg (279.078 nm)	4.2025 (ppm)	0.12	4.2025 (ppm)	7656.9506
3/16/2018 18:45:18	R1802055-001 100X	Mn (257.610 nm)	0.0052 (ppm)	0.47	0.0052 (ppm)	1423.1816
3/16/2018 18:45:18	R1802055-001 100X	Mo (202.032 nm)	-0.0004 u (ppm)	74.99	-0.0004 (ppm)	6.6810
3/16/2018 18:45:18	R1802055-001 100X	Na (588.995 nm)	66.1307 o (ppm)	0.39	66.1307 (ppm)	2392787.7052
3/16/2018 18:45:18	R1802055-001 100X	Ni (230.299 nm)	0.0039 (ppm)	8.45	0.0039 (ppm)	2.4707
3/16/2018 18:45:18	R1802055-001 100X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.8767
3/16/2018 18:45:18	R1802055-001 100X	Sb (217.582 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.0656
3/16/2018 18:45:18	R1802055-001 100X	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.5116
3/16/2018 18:45:18	R1802055-001 100X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.0188
3/16/2018 18:45:18	R1802055-001 100X	Sr (216.596 nm)	0.0525 (ppm)	0.97	0.0525 (ppm)	693.2332
3/16/2018 18:45:18	R1802055-001 100X	Ti (336.122 nm)	0.0068 (ppm)	1.35	0.0068 (ppm)	557.9756
3/16/2018 18:45:18	R1802055-001 100X	Tl (351.923 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	21.0725
3/16/2018 18:45:18	R1802055-001 100X	V (292.401 nm)	0.0013 (ppm)	6.12	0.0013 (ppm)	176.1369
3/16/2018 18:45:18	R1802055-001 100X	Y (360.074 nm)	1.01 (Ratio)	0.70	1.01 (Ratio)	738775.11
3/16/2018 18:45:18	R1802055-001 100X	Y_R (360.074 nm)	1.01 (Ratio)	0.70	1.01 (Ratio)	741618.60
3/16/2018 18:45:18	R1802055-001 100X	Zn (213.857 nm)	0.0022 (ppm)	4.82	0.0022 (ppm)	32.5855
3/16/2018 18:48:38	R1802137-002	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-100.9095
3/16/2018 18:48:38	R1802137-002	Al (394.401 nm)	0.0517 (ppm)	1.61	0.0517 (ppm)	653.5266
3/16/2018 18:48:38	R1802137-002	As (188.980 nm)	0.0008 (ppm)	77.96	0.0008 (ppm)	-2.4423
3/16/2018 18:48:38	R1802137-002	B (249.772 nm)	0.1418 (ppm)	0.72	0.1418 (ppm)	3816.6506
3/16/2018 18:48:38	R1802137-002	Ba (230.424 nm)	0.1395 (ppm)	0.92	0.1395 (ppm)	4090.9762
3/16/2018 18:48:38	R1802137-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-563.9709
3/16/2018 18:48:38	R1802137-002	Ca (227.547 nm)	153.5356 o (ppm)	0.72	153.5356 (ppm)	6950.9412
3/16/2018 18:48:38	R1802137-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.9865
3/16/2018 18:48:38	R1802137-002	Co (230.786 nm)	0.0001 (ppm)	98.72	0.0001 (ppm)	-1.0886
3/16/2018 18:48:38	R1802137-002	Cr (267.716 nm)	-0.0002 u (ppm)	87.92	-0.0002 (ppm)	-11.9333
3/16/2018 18:48:38	R1802137-002	Cu (327.395 nm)	0.0003 (ppm)	14.75	0.0003 (ppm)	33.5913
3/16/2018 18:48:38	R1802137-002	Fe (234.350 nm)	6.9530 (ppm)	0.59	6.9530 (ppm)	67614.3386
3/16/2018 18:48:38	R1802137-002	K (766.491 nm)	16.0324 (ppm)	0.97	16.0324 (ppm)	38012.9451
3/16/2018 18:48:38	R1802137-002	Mg (279.078 nm)	37.4798 (ppm)	0.63	37.4798 (ppm)	68352.2767
3/16/2018 18:48:38	R1802137-002	Mn (257.610 nm)	0.5019 (ppm)	0.63	0.5019 (ppm)	136288.8859
3/16/2018 18:48:38	R1802137-002	Mo (202.032 nm)	0.0035 (ppm)	11.24	0.0035 (ppm)	41.2384
3/16/2018 18:48:38	R1802137-002	Na (588.995 nm)	370.3331 o (ppm)	1.10	370.3331 (ppm)	13437126.8047
3/16/2018 18:48:38	R1802137-002	Ni (230.299 nm)	-0.0069 u (ppm)	11.89	-0.0069 (ppm)	-65.0954
3/16/2018 18:48:38	R1802137-002	Pb (220.353 nm)	-0.0013 u (ppm)	80.06	-0.0013 (ppm)	3.5561
3/16/2018 18:48:38	R1802137-002	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.4419
3/16/2018 18:48:38	R1802137-002	Se (196.026 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-2.5876
3/16/2018 18:48:38	R1802137-002	Sn (189.925 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-0.9610

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:48:38	R1802137-002	Sr (216.596 nm)	0.4537 (ppm)	0.64	0.4537 (ppm)	5988.2477
3/16/2018 18:48:38	R1802137-002	Ti (336.122 nm)	0.0022 (ppm)	4.14	0.0022 (ppm)	-221.3466
3/16/2018 18:48:38	R1802137-002	Tl (351.923 nm)	0.0015 (ppm)	71.08	0.0015 (ppm)	19.8446
3/16/2018 18:48:38	R1802137-002	V (292.401 nm)	0.0005 (ppm)	58.68	0.0005 (ppm)	152.3996
3/16/2018 18:48:38	R1802137-002	Y (360.074 nm)	0.95 (Ratio)	0.98	0.95 (Ratio)	695461.15
3/16/2018 18:48:38	R1802137-002	Y_R (360.074 nm)	0.95 (Ratio)	0.99	0.95 (Ratio)	697814.35
3/16/2018 18:48:38	R1802137-002	Zn (213.857 nm)	0.0057 (ppm)	1.64	0.0057 (ppm)	131.3255
3/16/2018 18:51:57	R1802137-002S	Ag (328.068 nm)	0.0527 (ppm)	0.52	0.0527 (ppm)	3098.2683
3/16/2018 18:51:57	R1802137-002S	Al (394.401 nm)	2.2661 (ppm)	0.56	2.2661 (ppm)	23385.6671
3/16/2018 18:51:57	R1802137-002S	As (188.980 nm)	0.0431 (ppm)	14.01	0.0431 (ppm)	34.6805
3/16/2018 18:51:57	R1802137-002S	B (249.772 nm)	1.1720 (ppm)	0.57	1.1720 (ppm)	30856.0020
3/16/2018 18:51:57	R1802137-002S	Ba (230.424 nm)	2.1456 (ppm)	0.60	2.1456 (ppm)	62911.3437
3/16/2018 18:51:57	R1802137-002S	Be (313.107 nm)	0.0497 (ppm)	0.55	0.0497 (ppm)	65406.8076
3/16/2018 18:51:57	R1802137-002S	Ca (227.547 nm)	155.1270 o (ppm)	0.58	155.1270 (ppm)	7022.9434
3/16/2018 18:51:57	R1802137-002S	Cd (214.439 nm)	0.0500 (ppm)	0.09	0.0500 (ppm)	1051.4519
3/16/2018 18:51:57	R1802137-002S	Co (230.786 nm)	0.5065 (ppm)	0.53	0.5065 (ppm)	4555.0460
3/16/2018 18:51:57	R1802137-002S	Cr (267.716 nm)	0.2024 (ppm)	0.41	0.2024 (ppm)	8559.0335
3/16/2018 18:51:57	R1802137-002S	Cu (327.395 nm)	0.2644 (ppm)	0.36	0.2644 (ppm)	13139.9928
3/16/2018 18:51:57	R1802137-002S	Fe (234.350 nm)	7.9097 (ppm)	0.51	7.9097 (ppm)	76914.7518
3/16/2018 18:51:57	R1802137-002S	K (766.491 nm)	37.9751 (ppm)	0.69	37.9751 (ppm)	89994.7641
3/16/2018 18:51:57	R1802137-002S	Mg (279.078 nm)	39.0880 (ppm)	0.59	39.0880 (ppm)	71285.6356
3/16/2018 18:51:57	R1802137-002S	Mn (257.610 nm)	0.9985 (ppm)	0.50	0.9985 (ppm)	271142.1125
3/16/2018 18:51:57	R1802137-002S	Mo (202.032 nm)	0.5013 (ppm)	0.35	0.5013 (ppm)	4475.0962
3/16/2018 18:51:57	R1802137-002S	Na (588.995 nm)	381.8579 o (ppm)	0.62	381.8579 (ppm)	13855544.2296
3/16/2018 18:51:57	R1802137-002S	Ni (230.299 nm)	0.4857 (ppm)	0.58	0.4857 (ppm)	3005.6744
3/16/2018 18:51:57	R1802137-002S	Pb (220.353 nm)	0.5012 (ppm)	0.61	0.5012 (ppm)	1009.0404
3/16/2018 18:51:57	R1802137-002S	Sb (217.582 nm)	0.5018 (ppm)	0.51	0.5018 (ppm)	633.4486
3/16/2018 18:51:57	R1802137-002S	Se (196.026 nm)	1.1223 o (ppm)	0.50	1.1223 (ppm)	976.3983
3/16/2018 18:51:57	R1802137-002S	Sn (189.925 nm)	5.0593 (ppm)	0.72	5.0593 (ppm)	5737.8535
3/16/2018 18:51:57	R1802137-002S	Sr (216.596 nm)	2.4220 (ppm)	0.58	2.4220 (ppm)	31960.6765
3/16/2018 18:51:57	R1802137-002S	Ti (336.122 nm)	0.5015 (ppm)	0.51	0.5015 (ppm)	84016.0044
3/16/2018 18:51:57	R1802137-002S	Tl (351.923 nm)	2.1335 (ppm)	0.37	2.1335 (ppm)	4747.6051
3/16/2018 18:51:57	R1802137-002S	V (292.401 nm)	0.5010 (ppm)	0.52	0.5010 (ppm)	15407.5876
3/16/2018 18:51:57	R1802137-002S	Y (360.074 nm)	0.95 (Ratio)	0.97	0.95 (Ratio)	693426.56
3/16/2018 18:51:57	R1802137-002S	Y_R (360.074 nm)	0.95 (Ratio)	0.96	0.95 (Ratio)	695785.76
3/16/2018 18:51:57	R1802137-002S	Zn (213.857 nm)	0.4959 (ppm)	0.26	0.4959 (ppm)	14117.4263
3/16/2018 18:55:16	R1802137-002SD	Ag (328.068 nm)	0.0529 (ppm)	0.37	0.0529 (ppm)	3111.6531
3/16/2018 18:55:16	R1802137-002SD	Al (394.401 nm)	2.2911 (ppm)	0.60	2.2911 (ppm)	23642.5966
3/16/2018 18:55:16	R1802137-002SD	As (188.980 nm)	0.0473 (ppm)	3.72	0.0473 (ppm)	38.3455
3/16/2018 18:55:16	R1802137-002SD	B (249.772 nm)	1.1820 (ppm)	0.30	1.1820 (ppm)	31117.6719
3/16/2018 18:55:16	R1802137-002SD	Ba (230.424 nm)	2.1543 (ppm)	0.17	2.1543 (ppm)	63166.1189
3/16/2018 18:55:16	R1802137-002SD	Be (313.107 nm)	0.0500 (ppm)	0.31	0.0500 (ppm)	65818.0541
3/16/2018 18:55:16	R1802137-002SD	Ca (227.547 nm)	156.8735 o (ppm)	0.39	156.8735 (ppm)	7101.9637
3/16/2018 18:55:16	R1802137-002SD	Cd (214.439 nm)	0.0500 (ppm)	0.47	0.0500 (ppm)	1051.9632
3/16/2018 18:55:16	R1802137-002SD	Co (230.786 nm)	0.5097 (ppm)	0.46	0.5097 (ppm)	4583.3712
3/16/2018 18:55:16	R1802137-002SD	Cr (267.716 nm)	0.2037 (ppm)	0.23	0.2037 (ppm)	8612.1025
3/16/2018 18:55:16	R1802137-002SD	Cu (327.395 nm)	0.2682 (ppm)	0.57	0.2682 (ppm)	13331.7171
3/16/2018 18:55:16	R1802137-002SD	Fe (234.350 nm)	7.9490 (ppm)	0.59	7.9490 (ppm)	77297.5684
3/16/2018 18:55:16	R1802137-002SD	K (766.491 nm)	38.4391 (ppm)	0.56	38.4391 (ppm)	91093.9678
3/16/2018 18:55:16	R1802137-002SD	Mg (279.078 nm)	39.4515 (ppm)	0.31	39.4515 (ppm)	71948.5350
3/16/2018 18:55:16	R1802137-002SD	Mn (257.610 nm)	1.0067 (ppm)	0.29	1.0067 (ppm)	273375.8362

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 18:55:16	R1802137-002SD	Mo (202.032 nm)	0.5051 (ppm)	0.37	0.5051 (ppm)	4508.6713
3/16/2018 18:55:16	R1802137-002SD	Na (588.995 nm)	385.2315 o (ppm)	0.76	385.2315 (ppm)	13978027.1964
3/16/2018 18:55:16	R1802137-002SD	Ni (230.299 nm)	0.4878 (ppm)	0.35	0.4878 (ppm)	3018.4316
3/16/2018 18:55:16	R1802137-002SD	Pb (220.353 nm)	0.5035 (ppm)	0.65	0.5035 (ppm)	1013.5344
3/16/2018 18:55:16	R1802137-002SD	Sb (217.582 nm)	0.5017 (ppm)	0.26	0.5017 (ppm)	633.3674
3/16/2018 18:55:16	R1802137-002SD	Se (196.026 nm)	1.1179 o (ppm)	0.67	1.1179 (ppm)	972.6095
3/16/2018 18:55:16	R1802137-002SD	Sn (189.925 nm)	5.0833 (ppm)	0.40	5.0833 (ppm)	5765.1085
3/16/2018 18:55:16	R1802137-002SD	Sr (216.596 nm)	2.4423 (ppm)	0.74	2.4423 (ppm)	32228.3838
3/16/2018 18:55:16	R1802137-002SD	Ti (336.122 nm)	0.5052 (ppm)	0.32	0.5052 (ppm)	84633.3429
3/16/2018 18:55:16	R1802137-002SD	Ti (351.923 nm)	2.1553 (ppm)	0.34	2.1553 (ppm)	4795.9136
3/16/2018 18:55:16	R1802137-002SD	V (292.401 nm)	0.5041 (ppm)	0.28	0.5041 (ppm)	15500.4993
3/16/2018 18:55:16	R1802137-002SD	Y (360.074 nm)	0.95 (Ratio)	0.68	0.95 (Ratio)	695316.13
3/16/2018 18:55:16	R1802137-002SD	Y_R (360.074 nm)	0.95 (Ratio)	0.69	0.95 (Ratio)	697724.32
3/16/2018 18:55:16	R1802137-002SD	Zn (213.857 nm)	0.5004 (ppm)	0.65	0.5004 (ppm)	14245.6527
3/16/2018 18:58:35	R1802137-002A	Ag (328.068 nm)	0.0480 (ppm)	0.99	0.0480 (ppm)	2811.0888
3/16/2018 18:58:35	R1802137-002A	Al (394.401 nm)	2.1900 (ppm)	0.61	2.1900 (ppm)	22604.3821
3/16/2018 18:58:35	R1802137-002A	As (188.980 nm)	0.0388 (ppm)	11.13	0.0388 (ppm)	30.9403
3/16/2018 18:58:35	R1802137-002A	B (249.772 nm)	1.1363 (ppm)	0.61	1.1363 (ppm)	29919.5778
3/16/2018 18:58:35	R1802137-002A	Ba (230.424 nm)	2.0654 (ppm)	0.79	2.0654 (ppm)	60558.5469
3/16/2018 18:58:35	R1802137-002A	Be (313.107 nm)	0.0479 (ppm)	0.72	0.0479 (ppm)	62931.1925
3/16/2018 18:58:35	R1802137-002A	Ca (227.547 nm)	152.3049 o (ppm)	0.81	152.3049 (ppm)	6895.2580
3/16/2018 18:58:35	R1802137-002A	Cd (214.439 nm)	0.0477 (ppm)	1.28	0.0477 (ppm)	1003.7651
3/16/2018 18:58:35	R1802137-002A	Co (230.786 nm)	0.4873 (ppm)	0.66	0.4873 (ppm)	4382.1007
3/16/2018 18:58:35	R1802137-002A	Cr (267.716 nm)	0.1949 (ppm)	0.47	0.1949 (ppm)	8240.3049
3/16/2018 18:58:35	R1802137-002A	Cu (327.395 nm)	0.2557 (ppm)	1.21	0.2557 (ppm)	12709.2979
3/16/2018 18:58:35	R1802137-002A	Fe (234.350 nm)	7.7364 (ppm)	0.69	7.7364 (ppm)	75230.5542
3/16/2018 18:58:35	R1802137-002A	K (766.491 nm)	36.9372 (ppm)	0.85	36.9372 (ppm)	87536.0883
3/16/2018 18:58:35	R1802137-002A	Mg (279.078 nm)	38.4424 (ppm)	0.59	38.4424 (ppm)	70108.1231
3/16/2018 18:58:35	R1802137-002A	Mn (257.610 nm)	0.9708 (ppm)	0.58	0.9708 (ppm)	263618.7867
3/16/2018 18:58:35	R1802137-002A	Mo (202.032 nm)	0.4894 (ppm)	0.36	0.4894 (ppm)	4368.7396
3/16/2018 18:58:35	R1802137-002A	Na (588.995 nm)	376.9065 o (ppm)	0.59	376.9065 (ppm)	13675777.5272
3/16/2018 18:58:35	R1802137-002A	Ni (230.299 nm)	0.4670 (ppm)	0.53	0.4670 (ppm)	2889.1802
3/16/2018 18:58:35	R1802137-002A	Pb (220.353 nm)	0.4819 (ppm)	1.18	0.4819 (ppm)	970.4010
3/16/2018 18:58:35	R1802137-002A	Sb (217.582 nm)	0.5175 (ppm)	1.04	0.5175 (ppm)	653.2514
3/16/2018 18:58:35	R1802137-002A	Se (196.026 nm)	1.1720 o (ppm)	1.07	1.1720 (ppm)	1019.7118
3/16/2018 18:58:35	R1802137-002A	Sn (189.925 nm)	5.1247 (ppm)	0.97	5.1247 (ppm)	5812.0144
3/16/2018 18:58:35	R1802137-002A	Sr (216.596 nm)	2.3673 (ppm)	0.62	2.3673 (ppm)	31238.6774
3/16/2018 18:58:35	R1802137-002A	Ti (336.122 nm)	0.4927 (ppm)	0.67	0.4927 (ppm)	82529.5843
3/16/2018 18:58:35	R1802137-002A	Ti (351.923 nm)	2.0565 (ppm)	0.60	2.0565 (ppm)	4576.9406
3/16/2018 18:58:35	R1802137-002A	V (292.401 nm)	0.4815 (ppm)	0.63	0.4815 (ppm)	14813.2711
3/16/2018 18:58:35	R1802137-002A	Y (360.074 nm)	0.95 (Ratio)	1.10	0.95 (Ratio)	695181.39
3/16/2018 18:58:35	R1802137-002A	Y_R (360.074 nm)	0.95 (Ratio)	1.10	0.95 (Ratio)	697623.50
3/16/2018 18:58:35	R1802137-002A	Zn (213.857 nm)	0.4793 (ppm)	1.13	0.4793 (ppm)	13644.0882
3/16/2018 19:01:54	R1802137-002L	Ag (328.068 nm)	-0.0001 u (ppm)	45.26	-0.0001 (ppm)	-108.2677
3/16/2018 19:01:54	R1802137-002L	Al (394.401 nm)	0.0167 (ppm)	5.05	0.0167 (ppm)	293.7446
3/16/2018 19:01:54	R1802137-002L	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-1.8245
3/16/2018 19:01:54	R1802137-002L	B (249.772 nm)	0.0254 (ppm)	0.68	0.0254 (ppm)	761.5562
3/16/2018 19:01:54	R1802137-002L	Ba (230.424 nm)	0.0273 (ppm)	0.52	0.0273 (ppm)	798.5960
3/16/2018 19:01:54	R1802137-002L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-559.7451
3/16/2018 19:01:54	R1802137-002L	Ca (227.547 nm)	27.1812 (ppm)	0.34	27.1812 (ppm)	1234.1489
3/16/2018 19:01:54	R1802137-002L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.0918

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:01:54	R1802137-002L	Co (230.786 nm)	-0.0003 u (ppm)	51.78	-0.0003 (ppm)	-5.1202
3/16/2018 19:01:54	R1802137-002L	Cr (267.716 nm)	-0.0001 u (ppm)	34.67	-0.0001 (ppm)	-5.7558
3/16/2018 19:01:54	R1802137-002L	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.2579
3/16/2018 19:01:54	R1802137-002L	Fe (234.350 nm)	1.3462 (ppm)	0.26	1.3462 (ppm)	13106.8891
3/16/2018 19:01:54	R1802137-002L	K (766.491 nm)	2.7322 (ppm)	0.43	2.7322 (ppm)	6505.1510
3/16/2018 19:01:54	R1802137-002L	Mg (279.078 nm)	6.9490 (ppm)	0.25	6.9490 (ppm)	12666.4330
3/16/2018 19:01:54	R1802137-002L	Mn (257.610 nm)	0.0981 (ppm)	0.35	0.0981 (ppm)	26626.9641
3/16/2018 19:01:54	R1802137-002L	Mo (202.032 nm)	0.0009 (ppm)	28.51	0.0009 (ppm)	18.6600
3/16/2018 19:01:54	R1802137-002L	Na (588.995 nm)	76.2136 o (ppm)	0.48	76.2136 (ppm)	2758853.7106
3/16/2018 19:01:54	R1802137-002L	Ni (230.299 nm)	-0.0013 u (ppm)	50.46	-0.0013 (ppm)	-30.2107
3/16/2018 19:01:54	R1802137-002L	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.2631
3/16/2018 19:01:54	R1802137-002L	Sb (217.582 nm)	0.0016 (ppm)	59.61	0.0016 (ppm)	1.9970
3/16/2018 19:01:54	R1802137-002L	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.8530
3/16/2018 19:01:54	R1802137-002L	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.9362
3/16/2018 19:01:54	R1802137-002L	Sr (216.596 nm)	0.0880 (ppm)	1.62	0.0880 (ppm)	1162.3909
3/16/2018 19:01:54	R1802137-002L	Ti (336.122 nm)	0.0006 (ppm)	13.15	0.0006 (ppm)	-485.5416
3/16/2018 19:01:54	R1802137-002L	Tl (351.923 nm)	0.0026 (ppm)	> 100.00	0.0026 (ppm)	22.2146
3/16/2018 19:01:54	R1802137-002L	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	138.6578
3/16/2018 19:01:54	R1802137-002L	Y (360.074 nm)	1.01 (Ratio)	0.92	1.01 (Ratio)	735275.44
3/16/2018 19:01:54	R1802137-002L	Y_R (360.074 nm)	1.01 (Ratio)	0.92	1.01 (Ratio)	738145.95
3/16/2018 19:01:54	R1802137-002L	Zn (213.857 nm)	0.0018 (ppm)	4.89	0.0018 (ppm)	20.1214
3/16/2018 19:05:13	Continuing Calibration Verification	Ag (328.068 nm)	0.4814 (ppm)	0.67	0.4814 (ppm)	29115.7690
3/16/2018 19:05:13	Continuing Calibration Verification	Al (394.401 nm)	9.5994 (ppm)	0.73	9.5994 (ppm)	98685.9261
3/16/2018 19:05:13	Continuing Calibration Verification	As (188.980 nm)	0.9738 (ppm)	0.67	0.9738 (ppm)	851.7127
3/16/2018 19:05:13	Continuing Calibration Verification	B (249.772 nm)	2.4344 (ppm)	0.63	2.4344 (ppm)	63989.3240
3/16/2018 19:05:13	Continuing Calibration Verification	Ba (230.424 nm)	10.1296 (ppm)	0.76	10.1296 (ppm)	297013.3874
3/16/2018 19:05:13	Continuing Calibration Verification	Be (313.107 nm)	0.2509 (ppm)	0.51	0.2509 (ppm)	332314.8294
3/16/2018 19:05:13	Continuing Calibration Verification	Ca (227.547 nm)	24.2050 (ppm)	1.11	24.2050 (ppm)	1099.4932
3/16/2018 19:05:13	Continuing Calibration Verification	Cd (214.439 nm)	0.5012 (ppm)	0.56	0.5012 (ppm)	10391.5185
3/16/2018 19:05:13	Continuing Calibration Verification	Co (230.786 nm)	2.5674 (ppm)	0.54	2.5674 (ppm)	23095.6571
3/16/2018 19:05:13	Continuing Calibration Verification	Cr (267.716 nm)	0.5195 (ppm)	0.56	0.5195 (ppm)	21971.7264
3/16/2018 19:05:13	Continuing Calibration Verification	Cu (327.395 nm)	1.2175 (ppm)	0.77	1.2175 (ppm)	60457.1630
3/16/2018 19:05:13	Continuing Calibration Verification	Fe (234.350 nm)	5.0068 (ppm)	0.53	5.0068 (ppm)	48694.1467
3/16/2018 19:05:13	Continuing Calibration Verification	K (766.491 nm)	24.5222 (ppm)	0.94	24.5222 (ppm)	58125.2679
3/16/2018 19:05:13	Continuing Calibration Verification	Mg (279.078 nm)	24.6991 (ppm)	0.61	24.6991 (ppm)	45041.3364
3/16/2018 19:05:13	Continuing Calibration Verification	Mn (257.610 nm)	0.7648 (ppm)	0.53	0.7648 (ppm)	207692.6784
3/16/2018 19:05:13	Continuing Calibration Verification	Mo (202.032 nm)	2.4812 (ppm)	0.50	2.4812 (ppm)	22107.9704
3/16/2018 19:05:13	Continuing Calibration Verification	Na (588.995 nm)	24.5293 (ppm)	0.88	24.5293 (ppm)	882411.2000
3/16/2018 19:05:13	Continuing Calibration Verification	Ni (230.299 nm)	2.0473 (ppm)	0.64	2.0473 (ppm)	12739.1690
3/16/2018 19:05:13	Continuing Calibration Verification	Pb (220.353 nm)	0.5000 (ppm)	0.74	0.5000 (ppm)	1006.6321
3/16/2018 19:05:13	Continuing Calibration Verification	Sb (217.582 nm)	4.9210 (ppm)	0.83	4.9210 (ppm)	6212.2535
3/16/2018 19:05:13	Continuing Calibration Verification	Se (196.026 nm)	0.4841 (ppm)	0.32	0.4841 (ppm)	420.5496
3/16/2018 19:05:13	Continuing Calibration Verification	Sn (189.925 nm)	5.0940 (ppm)	0.75	5.0940 (ppm)	5777.2189
3/16/2018 19:05:13	Continuing Calibration Verification	Sr (216.596 nm)	2.5089 (ppm)	0.68	2.5089 (ppm)	33108.0034
3/16/2018 19:05:13	Continuing Calibration Verification	Ti (336.122 nm)	2.4684 (ppm)	0.58	2.4684 (ppm)	415788.5348
3/16/2018 19:05:13	Continuing Calibration Verification	Tl (351.923 nm)	0.9884 (ppm)	0.58	0.9884 (ppm)	2208.2728
3/16/2018 19:05:13	Continuing Calibration Verification	V (292.401 nm)	2.5069 (ppm)	0.63	2.5069 (ppm)	76544.9341
3/16/2018 19:05:13	Continuing Calibration Verification	Y (360.074 nm)	1.00 (Ratio)	0.93	1.00 (Ratio)	733402.70
3/16/2018 19:05:13	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	0.93	1.00 (Ratio)	736258.57
3/16/2018 19:05:13	Continuing Calibration Verification	Zn (213.857 nm)	0.9635 (ppm)	0.69	0.9635 (ppm)	27457.7355
3/16/2018 19:08:32	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.9767

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:08:32	Continuing Calibration Blank	Al (394.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	121.0548
3/16/2018 19:08:32	Continuing Calibration Blank	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.8162
3/16/2018 19:08:32	Continuing Calibration Blank	B (249.772 nm)	0.0006 (ppm)	19.01	0.0006 (ppm)	110.8232
3/16/2018 19:08:32	Continuing Calibration Blank	Ba (230.424 nm)	0.0015 (ppm)	9.91	0.0015 (ppm)	42.9194
3/16/2018 19:08:32	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	17.89	0.0000 (ppm)	-499.2017
3/16/2018 19:08:32	Continuing Calibration Blank	Ca (227.547 nm)	0.0261 u (ppm)	> 100.00	0.0261 (ppm)	5.5416
3/16/2018 19:08:32	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	49.81	0.0001 (ppm)	20.3556
3/16/2018 19:08:32	Continuing Calibration Blank	Co (230.786 nm)	0.0006 (ppm)	26.48	0.0006 (ppm)	3.2249
3/16/2018 19:08:32	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.6962
3/16/2018 19:08:32	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.7851
3/16/2018 19:08:32	Continuing Calibration Blank	Fe (234.350 nm)	0.0015 (ppm)	19.02	0.0015 (ppm)	34.8770
3/16/2018 19:08:32	Continuing Calibration Blank	K (766.491 nm)	0.0340 (ppm)	6.81	0.0340 (ppm)	113.1801
3/16/2018 19:08:32	Continuing Calibration Blank	Mg (279.078 nm)	0.0062 (ppm)	15.82	0.0062 (ppm)	3.2750
3/16/2018 19:08:32	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	13.88	0.0001 (ppm)	29.5893
3/16/2018 19:08:32	Continuing Calibration Blank	Mo (202.032 nm)	0.0016 (ppm)	12.28	0.0016 (ppm)	24.9299
3/16/2018 19:08:32	Continuing Calibration Blank	Na (588.995 nm)	0.0200 (ppm)	0.66	0.0200 (ppm)	-7420.7110
3/16/2018 19:08:32	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 (ppm)	18.00	0.0003 (ppm)	-19.7212
3/16/2018 19:08:32	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.6087
3/16/2018 19:08:32	Continuing Calibration Blank	Sb (217.582 nm)	0.0024 (ppm)	35.44	0.0024 (ppm)	2.9957
3/16/2018 19:08:32	Continuing Calibration Blank	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.4589
3/16/2018 19:08:32	Continuing Calibration Blank	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	1.1220
3/16/2018 19:08:32	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	3.5218
3/16/2018 19:08:32	Continuing Calibration Blank	Ti (336.122 nm)	0.0016 (ppm)	8.41	0.0016 (ppm)	-323.0853
3/16/2018 19:08:32	Continuing Calibration Blank	Tl (351.923 nm)	0.0014 (ppm)	80.64	0.0014 (ppm)	19.6134
3/16/2018 19:08:32	Continuing Calibration Blank	V (292.401 nm)	0.0002 (ppm)	93.29	0.0002 (ppm)	141.3406
3/16/2018 19:08:32	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	1.02	1.03 (Ratio)	751424.52
3/16/2018 19:08:32	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	1.02	1.03 (Ratio)	754575.33
3/16/2018 19:08:32	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	19.13	0.0001 (ppm)	-27.4382
3/16/2018 19:11:51	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	0.83	0.0098 (ppm)	495.9041
3/16/2018 19:11:51	Contract Required Detection Limit	Al (394.401 nm)	0.1730 (ppm)	1.05	0.1730 (ppm)	1898.3272
3/16/2018 19:11:51	Contract Required Detection Limit	As (188.980 nm)	0.0177 (ppm)	9.03	0.0177 (ppm)	12.3999
3/16/2018 19:11:51	Contract Required Detection Limit	B (249.772 nm)	0.1969 (ppm)	0.67	0.1969 (ppm)	5264.5312
3/16/2018 19:11:51	Contract Required Detection Limit	Ba (230.424 nm)	0.2062 (ppm)	0.71	0.2062 (ppm)	6044.5773
3/16/2018 19:11:51	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.61	0.0049 (ppm)	5973.7842
3/16/2018 19:11:51	Contract Required Detection Limit	Ca (227.547 nm)	0.9953 (ppm)	5.03	0.9953 (ppm)	49.3933
3/16/2018 19:11:51	Contract Required Detection Limit	Cd (214.439 nm)	0.0100 (ppm)	0.47	0.0100 (ppm)	225.1648
3/16/2018 19:11:51	Contract Required Detection Limit	Co (230.786 nm)	0.0513 (ppm)	0.92	0.0513 (ppm)	459.8061
3/16/2018 19:11:51	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	0.86	0.0102 (ppm)	430.2290
3/16/2018 19:11:51	Contract Required Detection Limit	Cu (327.395 nm)	0.0241 (ppm)	0.61	0.0241 (ppm)	1214.3140
3/16/2018 19:11:51	Contract Required Detection Limit	Fe (234.350 nm)	0.1040 (ppm)	0.28	0.1040 (ppm)	1030.8495
3/16/2018 19:11:51	Contract Required Detection Limit	K (766.491 nm)	0.9415 (ppm)	1.67	0.9415 (ppm)	2262.9499
3/16/2018 19:11:51	Contract Required Detection Limit	Mg (279.078 nm)	0.9936 (ppm)	0.80	0.9936 (ppm)	1804.2204
3/16/2018 19:11:51	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.56	0.0154 (ppm)	4170.3760
3/16/2018 19:11:51	Contract Required Detection Limit	Mo (202.032 nm)	0.0246 (ppm)	1.21	0.0246 (ppm)	229.8300
3/16/2018 19:11:51	Contract Required Detection Limit	Na (588.995 nm)	1.0235 (ppm)	0.89	1.0235 (ppm)	29009.4994
3/16/2018 19:11:51	Contract Required Detection Limit	Ni (230.299 nm)	0.0420 (ppm)	2.83	0.0420 (ppm)	239.9037
3/16/2018 19:11:51	Contract Required Detection Limit	Pb (220.353 nm)	0.0093 (ppm)	27.96	0.0093 (ppm)	24.6694
3/16/2018 19:11:51	Contract Required Detection Limit	Sb (217.582 nm)	0.0626 (ppm)	3.65	0.0626 (ppm)	79.0481
3/16/2018 19:11:51	Contract Required Detection Limit	Se (196.026 nm)	0.0105 (ppm)	28.24	0.0105 (ppm)	8.1009
3/16/2018 19:11:51	Contract Required Detection Limit	Sn (189.925 nm)	0.5024 (ppm)	1.16	0.5024 (ppm)	570.3057
3/16/2018 19:11:51	Contract Required Detection Limit	Sr (216.596 nm)	0.0999 (ppm)	0.75	0.0999 (ppm)	1319.0348

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:11:51	Contract Required Detection Limit	Ti (336.122 nm)	0.0505 (ppm)	0.56	0.0505 (ppm)	7926.2415
3/16/2018 19:11:51	Contract Required Detection Limit	Ti (351.923 nm)	0.0165 (ppm)	4.60	0.0165 (ppm)	53.0772
3/16/2018 19:11:51	Contract Required Detection Limit	V (292.401 nm)	0.0486 (ppm)	0.93	0.0486 (ppm)	1615.6663
3/16/2018 19:11:51	Contract Required Detection Limit	Y (360.074 nm)	1.04 (Ratio)	0.81	1.04 (Ratio)	759723.26
3/16/2018 19:11:51	Contract Required Detection Limit	Y_R (360.074 nm)	1.04 (Ratio)	0.81	1.04 (Ratio)	762793.76
3/16/2018 19:11:51	Contract Required Detection Limit	Zn (213.857 nm)	0.0198 (ppm)	0.18	0.0198 (ppm)	534.3285
3/16/2018 19:15:10	Interference Check Solution A	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.9108
3/16/2018 19:15:10	Interference Check Solution A	Al (394.401 nm)	267.1669 o (ppm)	0.32	267.1669 (ppm)	2742754.6618
3/16/2018 19:15:10	Interference Check Solution A	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.2068
3/16/2018 19:15:10	Interference Check Solution A	B (249.772 nm)	0.0399 (ppm)	0.24	0.0399 (ppm)	1143.1348
3/16/2018 19:15:10	Interference Check Solution A	Ba (230.424 nm)	0.0008 (ppm)	2.01	0.0008 (ppm)	22.5472
3/16/2018 19:15:10	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	36.98	0.0000 (ppm)	-606.6186
3/16/2018 19:15:10	Interference Check Solution A	Ca (227.547 nm)	269.2409 o (ppm)	0.33	269.2409 (ppm)	12185.9250
3/16/2018 19:15:10	Interference Check Solution A	Cd (214.439 nm)	-0.0011 Ku (ppm)	40.41	-0.0011 (ppm)	-4.6177 K
3/16/2018 19:15:10	Interference Check Solution A	Co (230.786 nm)	-0.0021 u (ppm)	22.79	-0.0021 (ppm)	-21.1546
3/16/2018 19:15:10	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	84.36	0.0002 (ppm)	5.6837
3/16/2018 19:15:10	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	34.03	0.0006 (ppm)	46.6677
3/16/2018 19:15:10	Interference Check Solution A	Fe (234.350 nm)	94.0205 o (ppm)	0.22	94.0205 (ppm)	914052.9782
3/16/2018 19:15:10	Interference Check Solution A	K (766.491 nm)	0.0471 (ppm)	11.13	0.0471 (ppm)	144.0294
3/16/2018 19:15:10	Interference Check Solution A	Mg (279.078 nm)	266.5290 o (ppm)	0.15	266.5290 (ppm)	486121.4177
3/16/2018 19:15:10	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	1.71	0.0017 (ppm)	458.5503
3/16/2018 19:15:10	Interference Check Solution A	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	8.8707
3/16/2018 19:15:10	Interference Check Solution A	Na (588.995 nm)	-0.0100 u (ppm)	15.86	-0.0100 (ppm)	-8511.6112
3/16/2018 19:15:10	Interference Check Solution A	Ni (230.299 nm)	-0.0022 u (ppm)	20.44	-0.0022 (ppm)	-35.6142
3/16/2018 19:15:10	Interference Check Solution A	Pb (220.353 nm)	-0.0030 u (ppm)	26.07	-0.0030 (ppm)	0.0524
3/16/2018 19:15:10	Interference Check Solution A	Sb (217.582 nm)	-0.0037 u (ppm)	25.63	-0.0037 (ppm)	-4.6464
3/16/2018 19:15:10	Interference Check Solution A	Se (196.026 nm)	0.0036 (ppm)	> 100.00	0.0036 (ppm)	2.0631
3/16/2018 19:15:10	Interference Check Solution A	Sn (189.925 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.2272
3/16/2018 19:15:10	Interference Check Solution A	Sr (216.596 nm)	0.0188 (ppm)	5.96	0.0188 (ppm)	249.2951
3/16/2018 19:15:10	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	3.84	0.0020 (ppm)	-257.9154
3/16/2018 19:15:10	Interference Check Solution A	Ti (351.923 nm)	0.0022 (ppm)	> 100.00	0.0022 (ppm)	21.2722
3/16/2018 19:15:10	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	7.81	0.0035 (ppm)	241.4456 K
3/16/2018 19:15:10	Interference Check Solution A	Y (360.074 nm)	0.93 (Ratio)	0.77	0.93 (Ratio)	682756.56
3/16/2018 19:15:10	Interference Check Solution A	Y_R (360.074 nm)	0.93 (Ratio)	0.75	0.93 (Ratio)	685068.31
3/16/2018 19:15:10	Interference Check Solution A	Zn (213.857 nm)	0.0101 K (ppm)	0.25	0.0101 (ppm)	258.2457 K
3/16/2018 19:18:29	Interference Check Solution AB	Ag (328.068 nm)	0.2155 (ppm)	0.22	0.2155 (ppm)	12978.6261
3/16/2018 19:18:29	Interference Check Solution AB	Al (394.401 nm)	266.7386 o (ppm)	0.37	266.7386 (ppm)	2738358.3905
3/16/2018 19:18:29	Interference Check Solution AB	As (188.980 nm)	0.1018 (ppm)	0.51	0.1018 (ppm)	86.2071
3/16/2018 19:18:29	Interference Check Solution AB	B (249.772 nm)	0.0416 (ppm)	1.10	0.0416 (ppm)	1186.4203
3/16/2018 19:18:29	Interference Check Solution AB	Ba (230.424 nm)	0.5237 (ppm)	0.24	0.5237 (ppm)	15353.5544
3/16/2018 19:18:29	Interference Check Solution AB	Be (313.107 nm)	0.5065 (ppm)	0.29	0.5065 (ppm)	671361.8536
3/16/2018 19:18:29	Interference Check Solution AB	Ca (227.547 nm)	268.6769 o (ppm)	0.44	268.6769 (ppm)	12160.4067
3/16/2018 19:18:29	Interference Check Solution AB	Cd (214.439 nm)	0.9803 (ppm)	0.25	0.9803 (ppm)	20307.8848
3/16/2018 19:18:29	Interference Check Solution AB	Co (230.786 nm)	0.4975 (ppm)	0.44	0.4975 (ppm)	4473.9340
3/16/2018 19:18:29	Interference Check Solution AB	Cr (267.716 nm)	0.5123 (ppm)	0.26	0.5123 (ppm)	21669.3680
3/16/2018 19:18:29	Interference Check Solution AB	Cu (327.395 nm)	0.5414 (ppm)	0.38	0.5414 (ppm)	26892.4466
3/16/2018 19:18:29	Interference Check Solution AB	Fe (234.350 nm)	93.8270 o (ppm)	0.20	93.8270 (ppm)	912171.5648
3/16/2018 19:18:29	Interference Check Solution AB	K (766.491 nm)	0.0122 (ppm)	40.46	0.0122 (ppm)	61.3796
3/16/2018 19:18:29	Interference Check Solution AB	Mg (279.078 nm)	266.3938 o (ppm)	0.28	266.3938 (ppm)	48574.8099
3/16/2018 19:18:29	Interference Check Solution AB	Mn (257.610 nm)	0.5068 (ppm)	0.31	0.5068 (ppm)	137629.4626
3/16/2018 19:18:29	Interference Check Solution AB	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	9.9401

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:18:29	Interference Check Solution AB	Na (588.995 nm)	-0.0057 u (ppm)	20.26	-0.0057 (ppm)	-8353.3994
3/16/2018 19:18:29	Interference Check Solution AB	Ni (230.299 nm)	0.9744 (ppm)	0.39	0.9744 (ppm)	6052.0527
3/16/2018 19:18:29	Interference Check Solution AB	Pb (220.353 nm)	0.0467 (ppm)	5.64	0.0467 (ppm)	99.6449
3/16/2018 19:18:29	Interference Check Solution AB	Sb (217.582 nm)	0.6171 (ppm)	0.75	0.6171 (ppm)	778.9651
3/16/2018 19:18:29	Interference Check Solution AB	Se (196.026 nm)	0.0524 (ppm)	6.18	0.0524 (ppm)	44.5797
3/16/2018 19:18:29	Interference Check Solution AB	Sn (189.925 nm)	-0.0014 u (ppm)	85.54	-0.0014 (ppm)	-0.9387
3/16/2018 19:18:29	Interference Check Solution AB	Sr (216.596 nm)	0.0194 (ppm)	1.62	0.0194 (ppm)	257.1064
3/16/2018 19:18:29	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	0.96	0.0017 (ppm)	-302.2351
3/16/2018 19:18:29	Interference Check Solution AB	Tl (351.923 nm)	0.1105 (ppm)	3.61	0.1105 (ppm)	261.5117
3/16/2018 19:18:29	Interference Check Solution AB	V (292.401 nm)	0.5088 (ppm)	0.33	0.5088 (ppm)	15642.9784
3/16/2018 19:18:29	Interference Check Solution AB	Y (360.074 nm)	0.94 (Ratio)	0.75	0.94 (Ratio)	684425.97
3/16/2018 19:18:29	Interference Check Solution AB	Y_R (360.074 nm)	0.94 (Ratio)	0.75	0.94 (Ratio)	686819.06
3/16/2018 19:18:29	Interference Check Solution AB	Zn (213.857 nm)	0.9888 (ppm)	0.34	0.9888 (ppm)	28180.4159
3/16/2018 19:21:49	HLCCV2	Ag (328.068 nm)	2.1429 o (ppm)	0.54	2.1429 (ppm)	129955.7526
3/16/2018 19:21:49	HLCCV2	Al (394.401 nm)	551.4555 Qo (ppm)	0.69	551.4555 (ppm)	5661151.4940 Q
3/16/2018 19:21:49	HLCCV2	As (188.980 nm)	4.0339 o (ppm)	0.71	4.0339 (ppm)	3537.9876
3/16/2018 19:21:49	HLCCV2	B (249.772 nm)	10.3970 o (ppm)	0.62	10.3970 (ppm)	272970.0738
3/16/2018 19:21:49	HLCCV2	Ba (230.424 nm)	38.1566 o (ppm)	0.37	38.1566 (ppm)	1118806.4546
3/16/2018 19:21:49	HLCCV2	Be (313.107 nm)	0.9699 o (ppm)	0.50	0.9699 (ppm)	1286101.2988
3/16/2018 19:21:49	HLCCV2	Ca (227.547 nm)	278.6761 Qo (ppm)	0.62	278.6761 (ppm)	12612.8129 Q
3/16/2018 19:21:49	HLCCV2	Cd (214.439 nm)	1.8770 o (ppm)	0.48	1.8770 (ppm)	38868.4224
3/16/2018 19:21:49	HLCCV2	Co (230.786 nm)	9.3888 o (ppm)	0.54	9.3888 (ppm)	84466.0890
3/16/2018 19:21:49	HLCCV2	Cr (267.716 nm)	9.8320 o (ppm)	0.49	9.8320 (ppm)	415887.7616
3/16/2018 19:21:49	HLCCV2	Cu (327.395 nm)	5.5828 Qo (ppm)	0.72	5.5828 (ppm)	277174.0431 Q
3/16/2018 19:21:49	HLCCV2	Fe (234.350 nm)	47.6822 o (ppm)	0.56	47.6822 (ppm)	463569.3280
3/16/2018 19:21:49	HLCCV2	K (766.491 nm)	165.7136 Qo (ppm)	0.72	165.7136 (ppm)	392605.1364 Q
3/16/2018 19:21:49	HLCCV2	Mg (279.078 nm)	521.3358 o (ppm)	0.62	521.3358 (ppm)	950870.4965
3/16/2018 19:21:49	HLCCV2	Mn (257.610 nm)	9.5662 o (ppm)	0.46	9.5662 (ppm)	2597661.6118
3/16/2018 19:21:49	HLCCV2	Mo (202.032 nm)	9.7345 o (ppm)	0.68	9.7345 (ppm)	86706.5573
3/16/2018 19:21:49	HLCCV2	Na (588.995 nm)	154.0637 o (ppm)	0.83	154.0637 (ppm)	5585272.5333
3/16/2018 19:21:49	HLCCV2	Ni (230.299 nm)	7.4493 o (ppm)	0.59	7.4493 (ppm)	46410.5802
3/16/2018 19:21:49	HLCCV2	Pb (220.353 nm)	9.7364 o (ppm)	0.54	9.7364 (ppm)	19487.1976
3/16/2018 19:21:49	HLCCV2	Sb (217.582 nm)	0.0365 (ppm)	7.94	0.0365 (ppm)	46.0553
3/16/2018 19:21:49	HLCCV2	Se (196.026 nm)	2.0244 o (ppm)	0.94	2.0244 (ppm)	1762.0837
3/16/2018 19:21:49	HLCCV2	Sn (189.925 nm)	-0.0180 u (ppm)	28.56	-0.0180 (ppm)	-19.8000
3/16/2018 19:21:49	HLCCV2	Sr (216.596 nm)	9.5847 o (ppm)	0.71	9.5847 (ppm)	126478.8335
3/16/2018 19:21:49	HLCCV2	Ti (336.122 nm)	10.0029 o (ppm)	0.40	10.0029 (ppm)	1686758.3973
3/16/2018 19:21:49	HLCCV2	Tl (351.923 nm)	4.5173 Qo (ppm)	0.63	4.5173 (ppm)	10033.7549 Q
3/16/2018 19:21:49	HLCCV2	V (292.401 nm)	9.7860 o (ppm)	0.57	9.7860 (ppm)	298412.4196
3/16/2018 19:21:49	HLCCV2	Y (360.074 nm)	0.89 (Ratio)	0.98	0.89 (Ratio)	652387.25
3/16/2018 19:21:49	HLCCV2	Y_R (360.074 nm)	0.89 (Ratio)	0.98	0.89 (Ratio)	654504.26
3/16/2018 19:21:49	HLCCV2	Zn (213.857 nm)	3.8690 o (ppm)	0.69	3.8690 (ppm)	110353.5999
3/16/2018 19:25:08	HLCCV3	Ag (328.068 nm)	0.0003 (ppm)	41.82	0.0003 (ppm)	-85.2537
3/16/2018 19:25:08	HLCCV3	Al (394.401 nm)	0.0930 (ppm)	26.94	0.0930 (ppm)	1077.8002
3/16/2018 19:25:08	HLCCV3	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.7919
3/16/2018 19:25:08	HLCCV3	B (249.772 nm)	0.0254 (ppm)	1.97	0.0254 (ppm)	762.0597
3/16/2018 19:25:08	HLCCV3	Ba (230.424 nm)	0.0052 (ppm)	39.49	0.0052 (ppm)	150.5351
3/16/2018 19:25:08	HLCCV3	Be (313.107 nm)	0.0001 (ppm)	28.72	0.0001 (ppm)	-383.7075
3/16/2018 19:25:08	HLCCV3	Ca (227.547 nm)	201.0135 o (ppm)	0.59	201.0135 (ppm)	9099.0365
3/16/2018 19:25:08	HLCCV3	Cd (214.439 nm)	0.0007 (ppm)	6.52	0.0007 (ppm)	31.7194
3/16/2018 19:25:08	HLCCV3	Co (230.786 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	2.9527

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:25:08	HLCCV3	Cr (267.716 nm)	0.0011 (ppm)	58.62	0.0011 (ppm)	46.1383
3/16/2018 19:25:08	HLCCV3	Cu (327.395 nm)	4.1425 o (ppm)	0.45	4.1425 (ppm)	205672.1400
3/16/2018 19:25:08	HLCCV3	Fe (234.350 nm)	38.5871 o (ppm)	0.44	38.5871 (ppm)	375149.7813
3/16/2018 19:25:08	HLCCV3	K (766.491 nm)	98.1862 o (ppm)	0.77	98.1862 (ppm)	232633.9193
3/16/2018 19:25:08	HLCCV3	Mg (279.078 nm)	0.0615 (ppm)	41.84	0.0615 (ppm)	104.0818
3/16/2018 19:25:08	HLCCV3	Mn (257.610 nm)	0.0013 (ppm)	38.35	0.0013 (ppm)	364.6083
3/16/2018 19:25:08	HLCCV3	Mo (202.032 nm)	0.0063 (ppm)	9.71	0.0063 (ppm)	66.4564
3/16/2018 19:25:08	HLCCV3	Na (588.995 nm)	0.0219 (ppm)	36.29	0.0219 (ppm)	-7351.4895
3/16/2018 19:25:08	HLCCV3	Ni (230.299 nm)	-0.0263 u (ppm)	3.28	-0.0263 (ppm)	-185.5402
3/16/2018 19:25:08	HLCCV3	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.0438
3/16/2018 19:25:08	HLCCV3	Sb (217.582 nm)	0.0052 (ppm)	28.13	0.0052 (ppm)	6.5563
3/16/2018 19:25:08	HLCCV3	Se (196.026 nm)	0.0048 (ppm)	94.55	0.0048 (ppm)	3.0973
3/16/2018 19:25:08	HLCCV3	Sn (189.925 nm)	-0.0007 u (ppm)	25.52	-0.0007 (ppm)	-0.1308
3/16/2018 19:25:08	HLCCV3	Sr (216.596 nm)	0.0060 (ppm)	9.40	0.0060 (ppm)	79.6689
3/16/2018 19:25:08	HLCCV3	Ti (336.122 nm)	0.0051 (ppm)	12.52	0.0051 (ppm)	273.7965
3/16/2018 19:25:08	HLCCV3	Tl (351.923 nm)	2.9199 o (ppm)	0.73	2.9199 (ppm)	6491.4033
3/16/2018 19:25:08	HLCCV3	V (292.401 nm)	0.0025 (ppm)	20.62	0.0025 (ppm)	213.3043
3/16/2018 19:25:08	HLCCV3	Y (360.074 nm)	0.98 (Ratio)	0.78	0.98 (Ratio)	716464.52
3/16/2018 19:25:08	HLCCV3	Y_R (360.074 nm)	0.98 (Ratio)	0.78	0.98 (Ratio)	719102.86
3/16/2018 19:25:08	HLCCV3	Zn (213.857 nm)	0.0071 (ppm)	2.77	0.0071 (ppm)	173.0067
3/16/2018 19:28:28	HLCCV1	Ag (328.068 nm)	0.9895 (ppm)	0.52	0.9895 (ppm)	59954.0053
3/16/2018 19:28:28	HLCCV1	Al (394.401 nm)	19.8908 (ppm)	0.59	19.8908 (ppm)	204313.7987
3/16/2018 19:28:28	HLCCV1	As (188.980 nm)	1.9768 (ppm)	0.58	1.9768 (ppm)	1732.1367
3/16/2018 19:28:28	HLCCV1	B (249.772 nm)	4.9439 (ppm)	0.57	4.9439 (ppm)	129852.2587
3/16/2018 19:28:28	HLCCV1	Ba (230.424 nm)	19.7849 (ppm)	0.52	19.7849 (ppm)	580123.0655
3/16/2018 19:28:28	HLCCV1	Be (313.107 nm)	0.4943 (ppm)	0.63	0.4943 (ppm)	655107.7722
3/16/2018 19:28:28	HLCCV1	Cb (227.547 nm)	49.6677 (ppm)	0.56	49.6677 (ppm)	2251.5305
3/16/2018 19:28:28	HLCCV1	Cd (214.439 nm)	0.9879 (ppm)	0.40	0.9879 (ppm)	20464.7513
3/16/2018 19:28:28	HLCCV1	Co (230.786 nm)	4.9358 (ppm)	0.49	4.9358 (ppm)	44403.7913
3/16/2018 19:28:28	HLCCV1	Cr (267.716 nm)	0.9897 (ppm)	0.38	0.9897 (ppm)	41860.7105
3/16/2018 19:28:28	HLCCV1	Cu (327.395 nm)	2.4740 (ppm)	0.66	2.4740 (ppm)	122839.5061
3/16/2018 19:28:28	HLCCV1	Fe (234.350 nm)	9.8951 (ppm)	0.45	9.8951 (ppm)	96216.4230
3/16/2018 19:28:28	HLCCV1	K (766.491 nm)	49.7341 (ppm)	0.86	49.7341 (ppm)	117851.7809
3/16/2018 19:28:28	HLCCV1	Mg (279.078 nm)	49.4599 (ppm)	0.52	49.4599 (ppm)	90203.1542
3/16/2018 19:28:28	HLCCV1	Mn (257.610 nm)	1.4851 (ppm)	0.46	1.4851 (ppm)	403264.2313
3/16/2018 19:28:28	HLCCV1	Mo (202.032 nm)	4.9598 (ppm)	0.41	4.9598 (ppm)	44182.7142
3/16/2018 19:28:28	HLCCV1	Na (588.995 nm)	49.5330 (ppm)	0.89	49.5330 (ppm)	1790190.7146
3/16/2018 19:28:28	HLCCV1	Ni (230.299 nm)	3.9526 (ppm)	0.51	3.9526 (ppm)	24615.5393
3/16/2018 19:28:28	HLCCV1	Pb (220.353 nm)	0.9864 (ppm)	0.58	0.9864 (ppm)	1979.7146
3/16/2018 19:28:28	HLCCV1	Sb (217.582 nm)	9.8818 (ppm)	0.72	9.8818 (ppm)	12474.7355
3/16/2018 19:28:28	HLCCV1	Se (196.026 nm)	0.9807 (ppm)	0.17	0.9807 (ppm)	853.1061
3/16/2018 19:28:28	HLCCV1	Sn (189.925 nm)	9.8796 (ppm)	0.29	9.8796 (ppm)	11204.1666
3/16/2018 19:28:28	HLCCV1	Sr (216.596 nm)	4.9532 (ppm)	0.51	4.9532 (ppm)	65362.2229
3/16/2018 19:28:28	HLCCV1	Ti (336.122 nm)	4.9495 (ppm)	0.42	4.9495 (ppm)	834323.5790
3/16/2018 19:28:28	HLCCV1	Tl (351.923 nm)	1.9862 (ppm)	0.32	1.9862 (ppm)	4420.9310
3/16/2018 19:28:28	HLCCV1	V (292.401 nm)	4.9463 (ppm)	0.43	4.9463 (ppm)	150899.1159
3/16/2018 19:28:28	HLCCV1	Y (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	722225.73
3/16/2018 19:28:28	HLCCV1	Y_R (360.074 nm)	0.99 (Ratio)	0.79	0.99 (Ratio)	724941.47
3/16/2018 19:28:28	HLCCV1	Zn (213.857 nm)	1.9803 (ppm)	0.75	1.9803 (ppm)	56467.7629
3/16/2018 19:31:48	Continuing Calibration Verification	Ag (328.068 nm)	0.4786 (ppm)	0.42	0.4786 (ppm)	28942.1777
3/16/2018 19:31:48	Continuing Calibration Verification	Al (394.401 nm)	9.5362 (ppm)	0.43	9.5362 (ppm)	98017.6240



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:31:48	Continuing Calibration Verification	As (188.980 nm)	0.9663 (ppm)	1.05	0.9663 (ppm)	845.0817
3/16/2018 19:31:48	Continuing Calibration Verification	B (249.772 nm)	2.4234 (ppm)	0.37	2.4234 (ppm)	63700.3641
3/16/2018 19:31:48	Continuing Calibration Verification	Ba (230.424 nm)	10.1133 (ppm)	0.31	10.1133 (ppm)	296537.2503
3/16/2018 19:31:48	Continuing Calibration Verification	Be (313.107 nm)	0.2497 (ppm)	0.29	0.2497 (ppm)	330688.2321
3/16/2018 19:31:48	Continuing Calibration Verification	Ca (227.547 nm)	23.9618 (ppm)	0.29	23.9618 (ppm)	1088.4930
3/16/2018 19:31:48	Continuing Calibration Verification	Cd (214.439 nm)	0.4989 (ppm)	0.39	0.4989 (ppm)	10344.2897
3/16/2018 19:31:48	Continuing Calibration Verification	Co (230.786 nm)	2.5537 (ppm)	0.30	2.5537 (ppm)	22973.0203
3/16/2018 19:31:48	Continuing Calibration Verification	Cr (267.716 nm)	0.5172 (ppm)	0.33	0.5172 (ppm)	21876.3815
3/16/2018 19:31:48	Continuing Calibration Verification	Cu (327.395 nm)	1.2081 (ppm)	0.46	1.2081 (ppm)	59990.4575
3/16/2018 19:31:48	Continuing Calibration Verification	Fe (234.350 nm)	4.9883 (ppm)	0.30	4.9883 (ppm)	48514.0359
3/16/2018 19:31:48	Continuing Calibration Verification	K (766.491 nm)	24.3842 (ppm)	0.49	24.3842 (ppm)	57798.1911
3/16/2018 19:31:48	Continuing Calibration Verification	Mg (279.078 nm)	24.5879 (ppm)	0.28	24.5879 (ppm)	44838.5278
3/16/2018 19:31:48	Continuing Calibration Verification	Mn (257.610 nm)	0.7613 (ppm)	0.37	0.7613 (ppm)	206722.6549
3/16/2018 19:31:48	Continuing Calibration Verification	Mo (202.032 nm)	2.4726 (ppm)	0.36	2.4726 (ppm)	22031.6880
3/16/2018 19:31:48	Continuing Calibration Verification	Na (588.995 nm)	24.3551 (ppm)	0.74	24.3551 (ppm)	876086.1906
3/16/2018 19:31:48	Continuing Calibration Verification	Ni (230.299 nm)	2.0380 (ppm)	0.53	2.0380 (ppm)	12681.0728
3/16/2018 19:31:48	Continuing Calibration Verification	Pb (220.353 nm)	0.4937 (ppm)	0.90	0.4937 (ppm)	993.9916
3/16/2018 19:31:48	Continuing Calibration Verification	Sb (217.582 nm)	4.8929 (ppm)	0.26	4.8929 (ppm)	6176.8176
3/16/2018 19:31:48	Continuing Calibration Verification	Se (196.026 nm)	0.4887 (ppm)	1.75	0.4887 (ppm)	424.6114
3/16/2018 19:31:48	Continuing Calibration Verification	Sn (189.925 nm)	5.0702 (ppm)	0.12	5.0702 (ppm)	5750.2038
3/16/2018 19:31:48	Continuing Calibration Verification	Sr (216.596 nm)	2.5016 (ppm)	0.43	2.5016 (ppm)	33010.9685
3/16/2018 19:31:48	Continuing Calibration Verification	Ti (336.122 nm)	2.4571 (ppm)	0.33	2.4571 (ppm)	413888.3679
3/16/2018 19:31:48	Continuing Calibration Verification	Tl (351.923 nm)	0.9869 (ppm)	0.44	0.9869 (ppm)	2205.0330
3/16/2018 19:31:48	Continuing Calibration Verification	V (292.401 nm)	2.4930 (ppm)	0.35	2.4930 (ppm)	76123.4431
3/16/2018 19:31:48	Continuing Calibration Verification	Y (360.074 nm)	1.01 (Ratio)	0.61	1.01 (Ratio)	738678.44
3/16/2018 19:31:48	Continuing Calibration Verification	Y_R (360.074 nm)	1.01 (Ratio)	0.61	1.01 (Ratio)	741417.88
3/16/2018 19:31:48	Continuing Calibration Verification	Zn (213.857 nm)	0.9585 (ppm)	0.35	0.9585 (ppm)	27317.2861
3/16/2018 19:35:07	Continuing Calibration Blank	Ag (328.068 nm)	0.0003 (ppm)	29.24	0.0003 (ppm)	-84.0913
3/16/2018 19:35:07	Continuing Calibration Blank	Al (394.401 nm)	0.0014 (ppm)	59.54	0.0014 (ppm)	136.7581
3/16/2018 19:35:07	Continuing Calibration Blank	As (188.980 nm)	0.0012 (ppm)	32.60	0.0012 (ppm)	-2.0963
3/16/2018 19:35:07	Continuing Calibration Blank	B (249.772 nm)	0.0022 (ppm)	18.21	0.0022 (ppm)	154.2188
3/16/2018 19:35:07	Continuing Calibration Blank	Ba (230.424 nm)	0.0024 (ppm)	8.02	0.0024 (ppm)	70.6264
3/16/2018 19:35:07	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	5.51	0.0001 (ppm)	-472.3118
3/16/2018 19:35:07	Continuing Calibration Blank	Ca (227.547 nm)	0.0592 u (ppm)	> 100.00	0.0592 (ppm)	7.0409
3/16/2018 19:35:07	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	19.2237
3/16/2018 19:35:07	Continuing Calibration Blank	Co (230.786 nm)	0.0004 (ppm)	49.43	0.0004 (ppm)	1.4914
3/16/2018 19:35:07	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.6578
3/16/2018 19:35:07	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	25.26	0.0002 (ppm)	26.6270
3/16/2018 19:35:07	Continuing Calibration Blank	Fe (234.350 nm)	0.0026 (ppm)	8.69	0.0026 (ppm)	44.7001
3/16/2018 19:35:07	Continuing Calibration Blank	K (766.491 nm)	0.0531 (ppm)	11.56	0.0531 (ppm)	158.4357
3/16/2018 19:35:07	Continuing Calibration Blank	Mg (279.078 nm)	0.0080 (ppm)	34.21	0.0080 (ppm)	6.5330
3/16/2018 19:35:07	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	5.71	0.0002 (ppm)	54.1041
3/16/2018 19:35:07	Continuing Calibration Blank	Mo (202.032 nm)	0.0021 (ppm)	4.40	0.0021 (ppm)	29.3351
3/16/2018 19:35:07	Continuing Calibration Blank	Na (588.995 nm)	0.0175 (ppm)	11.90	0.0175 (ppm)	-7513.2379
3/16/2018 19:35:07	Continuing Calibration Blank	Ni (230.299 nm)	0.0010 (ppm)	90.94	0.0010 (ppm)	-15.8828
3/16/2018 19:35:07	Continuing Calibration Blank	Pb (220.353 nm)	-0.0005 u (ppm)	68.86	-0.0005 (ppm)	5.1899
3/16/2018 19:35:07	Continuing Calibration Blank	Sb (217.582 nm)	0.0038 (ppm)	38.49	0.0038 (ppm)	4.7831
3/16/2018 19:35:07	Continuing Calibration Blank	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.7470
3/16/2018 19:35:07	Continuing Calibration Blank	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	1.2662
3/16/2018 19:35:07	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	29.21	0.0002 (ppm)	3.8923
3/16/2018 19:35:07	Continuing Calibration Blank	Ti (336.122 nm)	0.0021 (ppm)	10.80	0.0021 (ppm)	-235.9370

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:35:07	Continuing Calibration Blank	Ti (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	17.8783
3/16/2018 19:35:07	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	27.22	0.0004 (ppm)	148.9506
3/16/2018 19:35:07	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.81	1.03 (Ratio)	751790.12
3/16/2018 19:35:07	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.82	1.03 (Ratio)	754764.29
3/16/2018 19:35:07	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	33.69	0.0003 (ppm)	-23.0147
3/16/2018 19:38:27	PBW-309876	Ag (328.068 nm)	-0.0001 u (ppm)	97.86	-0.0001 (ppm)	-106.9446
3/16/2018 19:38:27	PBW-309876	Al (394.401 nm)	0.0024 (ppm)	1.23	0.0024 (ppm)	147.3822
3/16/2018 19:38:27	PBW-309876	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.8681
3/16/2018 19:38:27	PBW-309876	B (249.772 nm)	0.0013 (ppm)	7.48	0.0013 (ppm)	130.7797
3/16/2018 19:38:27	PBW-309876	Ba (230.424 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	4.7379
3/16/2018 19:38:27	PBW-309876	Be (313.107 nm)	0.0000 (ppm)	48.61	0.0000 (ppm)	-536.5448
3/16/2018 19:38:27	PBW-309876	Ca (227.547 nm)	0.0140 u (ppm)	> 100.00	0.0140 (ppm)	4.9939
3/16/2018 19:38:27	PBW-309876	Cd (214.439 nm)	-0.0002 u (ppm)	36.52	-0.0002 (ppm)	13.0123
3/16/2018 19:38:27	PBW-309876	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.3170
3/16/2018 19:38:27	PBW-309876	Cr (267.716 nm)	0.0001 (ppm)	58.25	0.0001 (ppm)	0.7873
3/16/2018 19:38:27	PBW-309876	Cu (327.395 nm)	-0.0001 u (ppm)	40.41	-0.0001 (ppm)	10.6031
3/16/2018 19:38:27	PBW-309876	Fe (234.350 nm)	0.0006 (ppm)	24.49	0.0006 (ppm)	26.0891
3/16/2018 19:38:27	PBW-309876	K (766.491 nm)	0.0250 (ppm)	17.19	0.0250 (ppm)	91.8397
3/16/2018 19:38:27	PBW-309876	Mg (279.078 nm)	0.0020 (ppm)	39.70	0.0020 (ppm)	-4.5068
3/16/2018 19:38:27	PBW-309876	Mn (257.610 nm)	0.0001 (ppm)	25.94	0.0001 (ppm)	25.6277
3/16/2018 19:38:27	PBW-309876	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	10.9338
3/16/2018 19:38:27	PBW-309876	Na (588.995 nm)	0.0081 (ppm)	7.61	0.0081 (ppm)	-7855.1192
3/16/2018 19:38:27	PBW-309876	Ni (230.299 nm)	0.0008 (ppm)	32.74	0.0008 (ppm)	-17.0192
3/16/2018 19:38:27	PBW-309876	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.5503
3/16/2018 19:38:27	PBW-309876	Sb (217.582 nm)	0.0015 (ppm)	68.35	0.0015 (ppm)	1.9208
3/16/2018 19:38:27	PBW-309876	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.6441
3/16/2018 19:38:27	PBW-309876	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.2984
3/16/2018 19:38:27	PBW-309876	Sr (216.596 nm)	-0.0002 u (ppm)	99.26	-0.0002 (ppm)	-1.6705
3/16/2018 19:38:27	PBW-309876	Ti (351.923 nm)	0.0010 (ppm)	13.66	0.0010 (ppm)	-419.2212
3/16/2018 19:38:27	PBW-309876	Ti (351.923 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	9.8152
3/16/2018 19:38:27	PBW-309876	V (292.401 nm)	-0.0004 u (ppm)	51.33	-0.0004 (ppm)	123.8643
3/16/2018 19:38:27	PBW-309876	Y (360.074 nm)	1.05 (Ratio)	0.64	1.05 (Ratio)	765195.20
3/16/2018 19:38:27	PBW-309876	Y_R (360.074 nm)	1.05 (Ratio)	0.65	1.05 (Ratio)	768154.32
3/16/2018 19:38:27	PBW-309876	Zn (213.857 nm)	0.0011 (ppm)	5.00	0.0011 (ppm)	0.0294
3/16/2018 19:41:47	LCSW-309876	Ag (328.068 nm)	0.0489 (ppm)	0.12	0.0489 (ppm)	2865.5433
3/16/2018 19:41:47	LCSW-309876	Al (394.401 nm)	1.8207 (ppm)	0.23	1.8207 (ppm)	18813.0260
3/16/2018 19:41:47	LCSW-309876	As (188.980 nm)	0.0373 (ppm)	10.58	0.0373 (ppm)	29.6299
3/16/2018 19:41:47	LCSW-309876	B (249.772 nm)	0.9582 (ppm)	0.06	0.9582 (ppm)	25244.5137
3/16/2018 19:41:47	LCSW-309876	Ba (230.424 nm)	2.0235 (ppm)	0.42	2.0235 (ppm)	59331.9271
3/16/2018 19:41:47	LCSW-309876	Be (313.107 nm)	0.0487 (ppm)	0.04	0.0487 (ppm)	64093.9352
3/16/2018 19:41:47	LCSW-309876	Ca (227.547 nm)	1.7934 (ppm)	3.23	1.7934 (ppm)	85.5002
3/16/2018 19:41:47	LCSW-309876	Cd (214.439 nm)	0.0514 (ppm)	0.15	0.0514 (ppm)	1081.7320
3/16/2018 19:41:47	LCSW-309876	Co (230.786 nm)	0.5102 (ppm)	0.27	0.5102 (ppm)	4587.8874
3/16/2018 19:41:47	LCSW-309876	Cr (267.716 nm)	0.2027 (ppm)	0.18	0.2027 (ppm)	8572.7957
3/16/2018 19:41:47	LCSW-309876	Cu (327.395 nm)	0.2423 (ppm)	0.23	0.2423 (ppm)	12045.3125
3/16/2018 19:41:47	LCSW-309876	Fe (234.350 nm)	0.9916 (ppm)	0.19	0.9916 (ppm)	9659.4301
3/16/2018 19:41:47	LCSW-309876	K (766.491 nm)	18.9523 (ppm)	0.33	18.9523 (ppm)	44930.2121
3/16/2018 19:41:47	LCSW-309876	Mg (279.078 nm)	1.9378 (ppm)	0.12	1.9378 (ppm)	3526.2306
3/16/2018 19:41:47	LCSW-309876	Mn (257.610 nm)	0.4973 (ppm)	0.16	0.4973 (ppm)	135052.9530
3/16/2018 19:41:47	LCSW-309876	Mo (202.032 nm)	0.4853 (ppm)	0.40	0.4853 (ppm)	4332.7493
3/16/2018 19:41:47	LCSW-309876	Na (588.995 nm)	19.0214 (ppm)	0.31	19.0214 (ppm)	682440.5467

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:41:47	LCSW-309876	Ni (230.299 nm)	0.4988 (ppm)	0.11	0.4988 (ppm)	3087.0875
3/16/2018 19:41:47	LCSW-309876	Pb (220.353 nm)	0.5030 (ppm)	0.38	0.5030 (ppm)	1012.6124
3/16/2018 19:41:47	LCSW-309876	Sb (217.582 nm)	0.4667 (ppm)	0.56	0.4667 (ppm)	589.1641
3/16/2018 19:41:47	LCSW-309876	Se (196.026 nm)	1.0365 (ppm)	0.19	1.0365 (ppm)	901.6939
3/16/2018 19:41:47	LCSW-309876	Sn (189.925 nm)	4.9480 (ppm)	0.16	4.9480 (ppm)	5611.7238
3/16/2018 19:41:47	LCSW-309876	Sr (216.596 nm)	2.0166 (ppm)	0.49	2.0166 (ppm)	26612.0407
3/16/2018 19:41:47	LCSW-309876	Ti (336.122 nm)	0.4853 (ppm)	0.17	0.4853 (ppm)	81268.5498
3/16/2018 19:41:47	LCSW-309876	Tl (351.923 nm)	1.8407 (ppm)	0.06	1.8407 (ppm)	4098.4086
3/16/2018 19:41:47	LCSW-309876	V (292.401 nm)	0.4844 (ppm)	0.22	0.4844 (ppm)	14901.1456
3/16/2018 19:41:47	LCSW-309876	Y (360.074 nm)	1.03 (Ratio)	0.30	1.03 (Ratio)	755684.54
3/16/2018 19:41:47	LCSW-309876	Y_R (360.074 nm)	1.03 (Ratio)	0.29	1.03 (Ratio)	758475.04
3/16/2018 19:41:47	LCSW-309876	Zn (213.857 nm)	0.4764 (ppm)	0.72	0.4764 (ppm)	13561.5663
3/16/2018 19:45:06	R1801868-001 10X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-105.3322
3/16/2018 19:45:06	R1801868-001 10X	Al (394.401 nm)	0.0443 (ppm)	5.53	0.0443 (ppm)	576.9987
3/16/2018 19:45:06	R1801868-001 10X	As (188.980 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	-4.9316
3/16/2018 19:45:06	R1801868-001 10X	B (249.772 nm)	0.0045 (ppm)	10.68	0.0045 (ppm)	214.4663
3/16/2018 19:45:06	R1801868-001 10X	Ba (230.424 nm)	0.0324 (ppm)	0.38	0.0324 (ppm)	947.9712
3/16/2018 19:45:06	R1801868-001 10X	Be (313.107 nm)	0.0000 (ppm)	56.11	0.0000 (ppm)	-528.9053
3/16/2018 19:45:06	R1801868-001 10X	Ca (227.547 nm)	109.6515 o (ppm)	1.02	109.6515 (ppm)	4965.4459
3/16/2018 19:45:06	R1801868-001 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.4382
3/16/2018 19:45:06	R1801868-001 10X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.7322
3/16/2018 19:45:06	R1801868-001 10X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.4953
3/16/2018 19:45:06	R1801868-001 10X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	13.6171
3/16/2018 19:45:06	R1801868-001 10X	Fe (234.350 nm)	0.0025 (ppm)	4.22	0.0025 (ppm)	43.8639
3/16/2018 19:45:06	R1801868-001 10X	K (766.491 nm)	5.6785 (ppm)	0.93	5.6785 (ppm)	13484.7319
3/16/2018 19:45:06	R1801868-001 10X	Mg (279.078 nm)	0.0617 (ppm)	1.26	0.0617 (ppm)	104.4069
3/16/2018 19:45:06	R1801868-001 10X	Mn (257.610 nm)	0.0002 (ppm)	9.00	0.0002 (ppm)	59.7822
3/16/2018 19:45:06	R1801868-001 10X	Mo (202.032 nm)	0.0011 (ppm)	35.26	0.0011 (ppm)	20.3536
3/16/2018 19:45:06	R1801868-001 10X	Na (588.995 nm)	59.9662 o (ppm)	0.97	59.9662 (ppm)	2168978.6166
3/16/2018 19:45:06	R1801868-001 10X	Ni (230.299 nm)	-0.0003 u (ppm)	84.08	-0.0003 (ppm)	-23.6276
3/16/2018 19:45:06	R1801868-001 10X	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.7736
3/16/2018 19:45:06	R1801868-001 10X	Sb (217.582 nm)	0.0010 (ppm)	> 100.00	0.0010 (ppm)	1.2178
3/16/2018 19:45:06	R1801868-001 10X	Se (196.026 nm)	-0.0020 u (ppm)	65.03	-0.0020 (ppm)	-2.7979
3/16/2018 19:45:06	R1801868-001 10X	Sn (189.925 nm)	-0.0014 u (ppm)	83.25	-0.0014 (ppm)	-0.9573
3/16/2018 19:45:06	R1801868-001 10X	Sr (216.596 nm)	0.6949 (ppm)	6.72	0.6949 (ppm)	9170.7665
3/16/2018 19:45:06	R1801868-001 10X	Ti (336.122 nm)	0.0012 (ppm)	19.58	0.0012 (ppm)	-392.1700
3/16/2018 19:45:06	R1801868-001 10X	Tl (351.923 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	19.8201
3/16/2018 19:45:06	R1801868-001 10X	V (292.401 nm)	0.0004 (ppm)	21.18	0.0004 (ppm)	148.9708
3/16/2018 19:45:06	R1801868-001 10X	Y (360.074 nm)	1.00 (Ratio)	1.38	1.00 (Ratio)	727760.13
3/16/2018 19:45:06	R1801868-001 10X	Y_R (360.074 nm)	0.99 (Ratio)	1.39	0.99 (Ratio)	730299.90
3/16/2018 19:45:06	R1801868-001 10X	Zn (213.857 nm)	0.0009 (ppm)	6.50	0.0009 (ppm)	-3.6198
3/16/2018 19:48:25	R1801868-001S 10X	Ag (328.068 nm)	0.0049 (ppm)	3.88	0.0049 (ppm)	197.2466
3/16/2018 19:48:25	R1801868-001S 10X	Al (394.401 nm)	0.2438 (ppm)	1.09	0.2438 (ppm)	2625.9313
3/16/2018 19:48:25	R1801868-001S 10X	As (188.980 nm)	0.0031 (ppm)	68.42	0.0031 (ppm)	-0.4370
3/16/2018 19:48:25	R1801868-001S 10X	B (249.772 nm)	0.0992 (ppm)	0.59	0.0992 (ppm)	2698.1585
3/16/2018 19:48:25	R1801868-001S 10X	Ba (230.424 nm)	0.2328 (ppm)	1.09	0.2328 (ppm)	6825.7005
3/16/2018 19:48:25	R1801868-001S 10X	Be (313.107 nm)	0.0048 (ppm)	0.75	0.0048 (ppm)	5789.5763
3/16/2018 19:48:25	R1801868-001S 10X	Ca (227.547 nm)	109.8098 o (ppm)	0.90	109.8098 (ppm)	4972.6090
3/16/2018 19:48:25	R1801868-001S 10X	Cd (214.439 nm)	0.0050 (ppm)	3.60	0.0050 (ppm)	120.9713
3/16/2018 19:48:25	R1801868-001S 10X	Co (230.786 nm)	0.0500 (ppm)	1.11	0.0500 (ppm)	447.4817
3/16/2018 19:48:25	R1801868-001S 10X	Cr (267.716 nm)	0.0201 (ppm)	0.71	0.0201 (ppm)	849.8993

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:48:25	R1801868-001S 10X	Cu (327.395 nm)	0.0252 (ppm)	1.58	0.0252 (ppm)	1266.1990
3/16/2018 19:48:25	R1801868-001S 10X	Fe (234.350 nm)	0.1069 (ppm)	0.70	0.1069 (ppm)	1058.8024
3/16/2018 19:48:25	R1801868-001S 10X	K (766.491 nm)	7.6675 (ppm)	0.91	7.6675 (ppm)	18196.7152
3/16/2018 19:48:25	R1801868-001S 10X	Mg (279.078 nm)	0.2579 (ppm)	1.18	0.2579 (ppm)	462.2832
3/16/2018 19:48:25	R1801868-001S 10X	Mn (257.610 nm)	0.0503 (ppm)	0.80	0.0503 (ppm)	13666.1770
3/16/2018 19:48:25	R1801868-001S 10X	Mo (202.032 nm)	0.0490 (ppm)	0.40	0.0490 (ppm)	446.8401
3/16/2018 19:48:25	R1801868-001S 10X	Na (588.995 nm)	61.7081 o (ppm)	1.00	61.7081 (ppm)	2232220.8670
3/16/2018 19:48:25	R1801868-001S 10X	Ni (230.299 nm)	0.0493 (ppm)	2.85	0.0493 (ppm)	285.3515
3/16/2018 19:48:25	R1801868-001S 10X	Pb (220.353 nm)	0.0505 (ppm)	1.66	0.0505 (ppm)	107.1884
3/16/2018 19:48:25	R1801868-001S 10X	Sb (217.582 nm)	0.0477 (ppm)	5.44	0.0477 (ppm)	60.2564
3/16/2018 19:48:25	R1801868-001S 10X	Se (196.026 nm)	0.1012 (ppm)	2.91	0.1012 (ppm)	87.1172
3/16/2018 19:48:25	R1801868-001S 10X	Sn (189.925 nm)	0.4902 (ppm)	0.70	0.4902 (ppm)	556.5291
3/16/2018 19:48:25	R1801868-001S 10X	Sr (216.596 nm)	0.9248 (ppm)	0.64	0.9248 (ppm)	12203.7279
3/16/2018 19:48:25	R1801868-001S 10X	Ti (336.122 nm)	0.0506 (ppm)	0.30	0.0506 (ppm)	7948.8394
3/16/2018 19:48:25	R1801868-001S 10X	Ti (351.923 nm)	0.1949 (ppm)	2.01	0.1949 (ppm)	448.7923
3/16/2018 19:48:25	R1801868-001S 10X	V (292.401 nm)	0.0495 (ppm)	0.98	0.0495 (ppm)	1642.9281
3/16/2018 19:48:25	R1801868-001S 10X	Y (360.074 nm)	0.99 (Ratio)	1.12	0.99 (Ratio)	726072.20
3/16/2018 19:48:25	R1801868-001S 10X	Y_R (360.074 nm)	0.99 (Ratio)	1.12	0.99 (Ratio)	728536.33
3/16/2018 19:48:25	R1801868-001S 10X	Zn (213.857 nm)	0.0501 (ppm)	1.07	0.0501 (ppm)	1397.8194
3/16/2018 19:51:44	R1801868-001SD 10X	Ag (328.068 nm)	0.0049 (ppm)	2.12	0.0049 (ppm)	198.6951
3/16/2018 19:51:44	R1801868-001SD 10X	Al (394.401 nm)	0.2483 (ppm)	0.91	0.2483 (ppm)	2672.1360
3/16/2018 19:51:44	R1801868-001SD 10X	As (188.980 nm)	0.0033 (ppm)	38.70	0.0033 (ppm)	-0.2025
3/16/2018 19:51:44	R1801868-001SD 10X	B (249.772 nm)	0.1004 (ppm)	1.04	0.1004 (ppm)	2730.9727
3/16/2018 19:51:44	R1801868-001SD 10X	Ba (230.424 nm)	0.2348 (ppm)	0.15	0.2348 (ppm)	6884.2945
3/16/2018 19:51:44	R1801868-001SD 10X	Be (313.107 nm)	0.0048 (ppm)	0.72	0.0048 (ppm)	5861.4799
3/16/2018 19:51:44	R1801868-001SD 10X	Ca (227.547 nm)	111.2120 o (ppm)	1.03	111.2120 (ppm)	5036.0504
3/16/2018 19:51:44	R1801868-001SD 10X	Cd (214.439 nm)	0.0052 (ppm)	3.99	0.0052 (ppm)	125.9129
3/16/2018 19:51:44	R1801868-001SD 10X	Co (230.786 nm)	0.0511 (ppm)	1.01	0.0511 (ppm)	457.9354
3/16/2018 19:51:44	R1801868-001SD 10X	Cr (267.716 nm)	0.0205 (ppm)	1.36	0.0205 (ppm)	863.0680
3/16/2018 19:51:44	R1801868-001SD 10X	Cu (327.395 nm)	0.0255 (ppm)	1.08	0.0255 (ppm)	1281.1991
3/16/2018 19:51:44	R1801868-001SD 10X	Fe (234.350 nm)	0.1090 (ppm)	1.03	0.1090 (ppm)	1079.5263
3/16/2018 19:51:44	R1801868-001SD 10X	K (766.491 nm)	7.7611 (ppm)	0.90	7.7611 (ppm)	18418.3555
3/16/2018 19:51:44	R1801868-001SD 10X	Mg (279.078 nm)	0.2596 (ppm)	1.16	0.2596 (ppm)	465.4397
3/16/2018 19:51:44	R1801868-001SD 10X	Mn (257.610 nm)	0.0509 (ppm)	0.95	0.0509 (ppm)	13833.1107
3/16/2018 19:51:44	R1801868-001SD 10X	Mo (202.032 nm)	0.0496 (ppm)	1.43	0.0496 (ppm)	451.8905
3/16/2018 19:51:44	R1801868-001SD 10X	Na (588.995 nm)	62.4951 o (ppm)	1.02	62.4951 (ppm)	2260794.0799
3/16/2018 19:51:44	R1801868-001SD 10X	Ni (230.299 nm)	0.0495 (ppm)	2.31	0.0495 (ppm)	286.6432
3/16/2018 19:51:44	R1801868-001SD 10X	Pb (220.353 nm)	0.0509 (ppm)	4.12	0.0509 (ppm)	107.9959
3/16/2018 19:51:44	R1801868-001SD 10X	Sb (217.582 nm)	0.0497 (ppm)	3.75	0.0497 (ppm)	62.7842
3/16/2018 19:51:44	R1801868-001SD 10X	Se (196.026 nm)	0.1037 (ppm)	3.72	0.1037 (ppm)	89.2808
3/16/2018 19:51:44	R1801868-001SD 10X	Sn (189.925 nm)	0.4982 (ppm)	1.40	0.4982 (ppm)	565.5941
3/16/2018 19:51:44	R1801868-001SD 10X	Sr (216.596 nm)	0.9189 (ppm)	2.57	0.9189 (ppm)	12126.8889
3/16/2018 19:51:44	R1801868-001SD 10X	Ti (336.122 nm)	0.0509 (ppm)	0.54	0.0509 (ppm)	8004.8563
3/16/2018 19:51:44	R1801868-001SD 10X	Ti (351.923 nm)	0.1995 (ppm)	3.28	0.1995 (ppm)	458.9679
3/16/2018 19:51:44	R1801868-001SD 10X	V (292.401 nm)	0.0499 (ppm)	0.92	0.0499 (ppm)	1657.7208
3/16/2018 19:51:44	R1801868-001SD 10X	Y (360.074 nm)	0.99 (Ratio)	1.64	0.99 (Ratio)	725115.71
3/16/2018 19:51:44	R1801868-001SD 10X	Y_R (360.074 nm)	0.99 (Ratio)	1.64	0.99 (Ratio)	727635.31
3/16/2018 19:51:44	R1801868-001SD 10X	Zn (213.857 nm)	0.0496 (ppm)	0.61	0.0496 (ppm)	1384.1712
3/16/2018 19:55:03	R1801868-001A 10X	Ag (328.068 nm)	0.0469 (ppm)	0.47	0.0469 (ppm)	2745.8610
3/16/2018 19:55:03	R1801868-001A 10X	Al (394.401 nm)	1.9968 (ppm)	0.44	1.9968 (ppm)	20620.6269
3/16/2018 19:55:03	R1801868-001A 10X	As (188.980 nm)	0.0408 (ppm)	1.26	0.0408 (ppm)	32.7127

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:55:03	R1801868-001A 10X	B (249.772 nm)	0.9609 (ppm)	0.36	0.9609 (ppm)	25314.1872
3/16/2018 19:55:03	R1801868-001A 10X	Ba (230.424 nm)	1.9989 (ppm)	0.21	1.9989 (ppm)	58610.8222
3/16/2018 19:55:03	R1801868-001A 10X	Be (313.107 nm)	0.0480 (ppm)	0.36	0.0480 (ppm)	63116.1360
3/16/2018 19:55:03	R1801868-001A 10X	Ca (227.547 nm)	110.6515 u (ppm)	0.40	110.6515 (ppm)	5010.6885
3/16/2018 19:55:03	R1801868-001A 10X	Cd (214.439 nm)	0.0501 (ppm)	0.23	0.0501 (ppm)	1054.0500
3/16/2018 19:55:03	R1801868-001A 10X	Co (230.786 nm)	0.4975 (ppm)	0.41	0.4975 (ppm)	4473.7614
3/16/2018 19:55:03	R1801868-001A 10X	Cr (267.716 nm)	0.1989 (ppm)	0.18	0.1989 (ppm)	8411.9173
3/16/2018 19:55:03	R1801868-001A 10X	Cu (327.395 nm)	0.2465 (ppm)	0.84	0.2465 (ppm)	12255.5884
3/16/2018 19:55:03	R1801868-001A 10X	Fe (234.350 nm)	0.9739 (ppm)	0.22	0.9739 (ppm)	9487.6308
3/16/2018 19:55:03	R1801868-001A 10X	K (766.491 nm)	25.3030 (ppm)	0.64	25.3030 (ppm)	59974.9595
3/16/2018 19:55:03	R1801868-001A 10X	Mg (279.078 nm)	1.9807 (ppm)	0.47	1.9807 (ppm)	3604.4921
3/16/2018 19:55:03	R1801868-001A 10X	Mn (257.610 nm)	0.4912 (ppm)	0.26	0.4912 (ppm)	133384.9959
3/16/2018 19:55:03	R1801868-001A 10X	Mo (202.032 nm)	0.4891 (ppm)	0.14	0.4891 (ppm)	4365.9316
3/16/2018 19:55:03	R1801868-001A 10X	Na (588.995 nm)	77.2228 u (ppm)	0.70	77.2228 (ppm)	2795494.2754
3/16/2018 19:55:03	R1801868-001A 10X	Ni (230.299 nm)	0.4854 (ppm)	0.23	0.4854 (ppm)	3003.7880
3/16/2018 19:55:03	R1801868-001A 10X	Pb (220.353 nm)	0.4969 (ppm)	0.05	0.4969 (ppm)	1000.2912
3/16/2018 19:55:03	R1801868-001A 10X	Sb (217.582 nm)	0.5080 (ppm)	0.14	0.5080 (ppm)	641.3611
3/16/2018 19:55:03	R1801868-001A 10X	Se (196.026 nm)	1.0559 (ppm)	0.55	1.0559 (ppm)	918.6040
3/16/2018 19:55:03	R1801868-001A 10X	Sn (189.925 nm)	5.1327 (ppm)	0.34	5.1327 (ppm)	5821.1346
3/16/2018 19:55:03	R1801868-001A 10X	Sr (216.596 nm)	2.6332 (ppm)	0.39	2.6332 (ppm)	34748.0845
3/16/2018 19:55:03	R1801868-001A 10X	Ti (336.122 nm)	0.4925 (ppm)	0.20	0.4925 (ppm)	82483.0582
3/16/2018 19:55:03	R1801868-001A 10X	Ti (351.923 nm)	1.9244 (ppm)	0.33	1.9244 (ppm)	4284.0113
3/16/2018 19:55:03	R1801868-001A 10X	V (292.401 nm)	0.4869 (ppm)	0.31	0.4869 (ppm)	14976.1687
3/16/2018 19:55:03	R1801868-001A 10X	Y (360.074 nm)	0.99 (Ratio)	0.72	0.99 (Ratio)	726136.96
3/16/2018 19:55:03	R1801868-001A 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.71	0.99 (Ratio)	728628.90
3/16/2018 19:55:03	R1801868-001A 10X	Zn (213.857 nm)	0.4763 (ppm)	0.11	0.4763 (ppm)	13558.7422
3/16/2018 19:58:22	R1801868-001L 10X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-104.5634
3/16/2018 19:58:22	R1801868-001L 10X	Al (394.401 nm)	0.0141 (ppm)	7.67	0.0141 (ppm)	267.4951
3/16/2018 19:58:22	R1801868-001L 10X	As (188.980 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-4.2792
3/16/2018 19:58:22	R1801868-001L 10X	B (249.772 nm)	0.0006 (ppm)	43.14	0.0006 (ppm)	112.0087
3/16/2018 19:58:22	R1801868-001L 10X	Ba (230.424 nm)	0.0072 (ppm)	2.21	0.0072 (ppm)	210.5741
3/16/2018 19:58:22	R1801868-001L 10X	Be (313.107 nm)	0.0000 (ppm)	15.31	0.0000 (ppm)	-528.7582
3/16/2018 19:58:22	R1801868-001L 10X	Ca (227.547 nm)	21.6367 (ppm)	0.59	21.6367 (ppm)	983.2927
3/16/2018 19:58:22	R1801868-001L 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.5037
3/16/2018 19:58:22	R1801868-001L 10X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.6100
3/16/2018 19:58:22	R1801868-001L 10X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.9645
3/16/2018 19:58:22	R1801868-001L 10X	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.9669
3/16/2018 19:58:22	R1801868-001L 10X	Fe (234.350 nm)	0.0007 (ppm)	19.43	0.0007 (ppm)	26.2456
3/16/2018 19:58:22	R1801868-001L 10X	K (766.491 nm)	1.1294 (ppm)	1.17	1.1294 (ppm)	2708.1175
3/16/2018 19:58:22	R1801868-001L 10X	Mg (279.078 nm)	0.0125 (ppm)	10.04	0.0125 (ppm)	14.6817
3/16/2018 19:58:22	R1801868-001L 10X	Mn (257.610 nm)	0.0001 (ppm)	15.89	0.0001 (ppm)	24.5307
3/16/2018 19:58:22	R1801868-001L 10X	Mo (202.032 nm)	0.0005 (ppm)	59.82	0.0005 (ppm)	14.8203
3/16/2018 19:58:22	R1801868-001L 10X	Na (588.995 nm)	12.4832 (ppm)	0.68	12.4832 (ppm)	445066.6447
3/16/2018 19:58:22	R1801868-001L 10X	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-20.8664
3/16/2018 19:58:22	R1801868-001L 10X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.8615
3/16/2018 19:58:22	R1801868-001L 10X	Sb (217.582 nm)	0.0021 (ppm)	83.18	0.0021 (ppm)	2.6925
3/16/2018 19:58:22	R1801868-001L 10X	Se (196.026 nm)	0.0047 (ppm)	83.74	0.0047 (ppm)	3.0405
3/16/2018 19:58:22	R1801868-001L 10X	Sn (189.925 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.1982
3/16/2018 19:58:22	R1801868-001L 10X	Sr (216.596 nm)	0.1545 (ppm)	0.82	0.1545 (ppm)	2039.0336
3/16/2018 19:58:22	R1801868-001L 10X	Ti (336.122 nm)	0.0004 (ppm)	36.57	0.0004 (ppm)	-528.1098
3/16/2018 19:58:22	R1801868-001L 10X	Ti (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	16.9234

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 19:58:22	R1801868-001L 10X	V (292.401 nm)	0.0001 (ppm)	99.61	0.0001 (ppm)	139.2252
3/16/2018 19:58:22	R1801868-001L 10X	Y (360.074 nm)	1.02 (Ratio)	0.50	1.02 (Ratio)	749121.78
3/16/2018 19:58:22	R1801868-001L 10X	Y_R (360.074 nm)	1.02 (Ratio)	0.50	1.02 (Ratio)	751946.31
3/16/2018 19:58:22	R1801868-001L 10X	Zn (213.857 nm)	0.0045 (ppm)	0.35	0.0045 (ppm)	97.3410
3/16/2018 20:01:41	R1801868-002 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-101.6118
3/16/2018 20:01:41	R1801868-002 10X	Al (394.401 nm)	0.0360 (ppm)	1.58	0.0360 (ppm)	492.2475
3/16/2018 20:01:41	R1801868-002 10X	As (188.980 nm)	-0.0012 u (ppm)	65.75	-0.0012 (ppm)	-4.1678
3/16/2018 20:01:41	R1801868-002 10X	B (249.772 nm)	0.0053 (ppm)	1.43	0.0053 (ppm)	234.8801
3/16/2018 20:01:41	R1801868-002 10X	Ba (230.424 nm)	0.0249 (ppm)	2.62	0.0249 (ppm)	728.5227
3/16/2018 20:01:41	R1801868-002 10X	Be (313.107 nm)	0.0000 (ppm)	8.06	0.0000 (ppm)	-542.2929
3/16/2018 20:01:41	R1801868-002 10X	Ca (227.547 nm)	81.4000 o (ppm)	0.52	81.4000 (ppm)	3687.2328
3/16/2018 20:01:41	R1801868-002 10X	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.8438
3/16/2018 20:01:41	R1801868-002 10X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.6434
3/16/2018 20:01:41	R1801868-002 10X	Cr (267.716 nm)	-0.0001 u (ppm)	69.21	-0.0001 (ppm)	-6.8688
3/16/2018 20:01:41	R1801868-002 10X	Cu (327.395 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	24.6019
3/16/2018 20:01:41	R1801868-002 10X	Fe (234.350 nm)	0.0051 (ppm)	3.51	0.0051 (ppm)	68.9380
3/16/2018 20:01:41	R1801868-002 10X	K (766.491 nm)	4.2018 (ppm)	0.40	4.2018 (ppm)	9986.5224
3/16/2018 20:01:41	R1801868-002 10X	Mg (279.078 nm)	0.3606 (ppm)	0.42	0.3606 (ppm)	649.5767
3/16/2018 20:01:41	R1801868-002 10X	Mn (257.610 nm)	0.0004 (ppm)	1.99	0.0004 (ppm)	97.4799
3/16/2018 20:01:41	R1801868-002 10X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.5600
3/16/2018 20:01:41	R1801868-002 10X	Na (588.995 nm)	25.4144 (ppm)	0.32	25.4144 (ppm)	914543.2768
3/16/2018 20:01:41	R1801868-002 10X	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-23.0976
3/16/2018 20:01:41	R1801868-002 10X	Pb (220.353 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	8.2664
3/16/2018 20:01:41	R1801868-002 10X	Sb (217.582 nm)	0.0019 u (ppm)	89.36	0.0019 (ppm)	2.4625
3/16/2018 20:01:41	R1801868-002 10X	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-2.0057
3/16/2018 20:01:41	R1801868-002 10X	Sn (189.925 nm)	-0.0022 u (ppm)	14.00	-0.0022 (ppm)	-1.9240
3/16/2018 20:01:41	R1801868-002 10X	Sr (216.596 nm)	0.6505 (ppm)	0.27	0.6505 (ppm)	8584.4264
3/16/2018 20:01:41	R1801868-002 10X	Ti (336.122 nm)	0.0006 (ppm)	20.90	0.0006 (ppm)	-486.7027
3/16/2018 20:01:41	R1801868-002 10X	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	12.9391
3/16/2018 20:01:41	R1801868-002 10X	V (292.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	141.1241
3/16/2018 20:01:41	R1801868-002 10X	Y (360.074 nm)	1.01 (Ratio)	0.46	1.01 (Ratio)	735939.15
3/16/2018 20:01:41	R1801868-002 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.46	1.01 (Ratio)	738711.20
3/16/2018 20:01:41	R1801868-002 10X	Zn (213.857 nm)	0.0007 (ppm)	5.40	0.0007 (ppm)	-10.1348
3/16/2018 20:05:00	R1801868-003 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.5621
3/16/2018 20:05:00	R1801868-003 10X	Al (394.401 nm)	0.0413 (ppm)	2.87	0.0413 (ppm)	546.2722
3/16/2018 20:05:00	R1801868-003 10X	As (188.980 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	-5.9141
3/16/2018 20:05:00	R1801868-003 10X	B (249.772 nm)	0.0024 (ppm)	3.67	0.0024 (ppm)	157.7573
3/16/2018 20:05:00	R1801868-003 10X	Ba (230.424 nm)	0.0411 (ppm)	0.82	0.0411 (ppm)	1205.0864
3/16/2018 20:05:00	R1801868-003 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-549.1322
3/16/2018 20:05:00	R1801868-003 10X	Ca (227.547 nm)	141.5552 o (ppm)	0.76	141.5552 (ppm)	6408.8977
3/16/2018 20:05:00	R1801868-003 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.1044
3/16/2018 20:05:00	R1801868-003 10X	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.5360
3/16/2018 20:05:00	R1801868-003 10X	Cr (267.716 nm)	-0.0001 u (ppm)	88.62	-0.0001 (ppm)	-7.4457
3/16/2018 20:05:00	R1801868-003 10X	Cu (327.395 nm)	0.0005 (ppm)	64.10	0.0005 (ppm)	41.6496
3/16/2018 20:05:00	R1801868-003 10X	Fe (234.350 nm)	0.0024 (ppm)	13.36	0.0024 (ppm)	43.2281
3/16/2018 20:05:00	R1801868-003 10X	K (766.491 nm)	6.2358 (ppm)	0.65	6.2358 (ppm)	14804.9567
3/16/2018 20:05:00	R1801868-003 10X	Mg (279.078 nm)	0.1030 (ppm)	2.24	0.1030 (ppm)	179.7844
3/16/2018 20:05:00	R1801868-003 10X	Mn (257.610 nm)	0.0003 (ppm)	7.39	0.0003 (ppm)	73.9256
3/16/2018 20:05:00	R1801868-003 10X	Mo (202.032 nm)	-0.0003 u (ppm)	40.19	-0.0003 (ppm)	7.5287
3/16/2018 20:05:00	R1801868-003 10X	Na (588.995 nm)	40.7841 (ppm)	0.84	40.7841 (ppm)	1472554.7267
3/16/2018 20:05:00	R1801868-003 10X	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-19.8530

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:05:00	R1801868-003 10X	Pb (220.353 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	1.9436
3/16/2018 20:05:00	R1801868-003 10X	Sb (217.582 nm)	0.0014 (ppm)	77.92	0.0014 (ppm)	1.7426
3/16/2018 20:05:00	R1801868-003 10X	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.5386
3/16/2018 20:05:00	R1801868-003 10X	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.1418
3/16/2018 20:05:00	R1801868-003 10X	Sr (216.596 nm)	0.7642 (ppm)	0.94	0.7642 (ppm)	10085.4212
3/16/2018 20:05:00	R1801868-003 10X	Ti (336.122 nm)	0.0008 (ppm)	7.09	0.0008 (ppm)	-455.4466
3/16/2018 20:05:00	R1801868-003 10X	Ti (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	18.3587
3/16/2018 20:05:00	R1801868-003 10X	V (292.401 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	143.9072
3/16/2018 20:05:00	R1801868-003 10X	Y (360.074 nm)	0.99 (Ratio)	0.82	0.99 (Ratio)	726492.13
3/16/2018 20:05:00	R1801868-003 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.82	0.99 (Ratio)	729256.36
3/16/2018 20:05:00	R1801868-003 10X	Zn (213.857 nm)	0.0017 (ppm)	4.28	0.0017 (ppm)	17.4961
3/16/2018 20:08:19	R1801868-004 5X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-101.4711
3/16/2018 20:08:19	R1801868-004 5X	Al (394.401 nm)	0.0229 (ppm)	4.15	0.0229 (ppm)	357.2634
3/16/2018 20:08:19	R1801868-004 5X	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-2.3739
3/16/2018 20:08:19	R1801868-004 5X	B (249.772 nm)	0.0059 (ppm)	5.35	0.0059 (ppm)	249.4383
3/16/2018 20:08:19	R1801868-004 5X	Ba (230.424 nm)	0.0134 (ppm)	1.37	0.0134 (ppm)	392.5059
3/16/2018 20:08:19	R1801868-004 5X	Be (313.107 nm)	0.0000 (ppm)	88.49	0.0000 (ppm)	-541.2713
3/16/2018 20:08:19	R1801868-004 5X	Ca (227.547 nm)	44.6804 (ppm)	0.82	44.6804 (ppm)	2025.8857
3/16/2018 20:08:19	R1801868-004 5X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.3996
3/16/2018 20:08:19	R1801868-004 5X	Co (230.786 nm)	-0.0002 u (ppm)	62.46	-0.0002 (ppm)	-4.1845
3/16/2018 20:08:19	R1801868-004 5X	Cr (267.716 nm)	0.0004 (ppm)	32.76	0.0004 (ppm)	14.0118
3/16/2018 20:08:19	R1801868-004 5X	Cu (327.395 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	23.9348
3/16/2018 20:08:19	R1801868-004 5X	Fe (234.350 nm)	0.0059 (ppm)	5.30	0.0059 (ppm)	77.2354
3/16/2018 20:08:19	R1801868-004 5X	K (766.491 nm)	3.5197 (ppm)	1.39	3.5197 (ppm)	8370.5713
3/16/2018 20:08:19	R1801868-004 5X	Mg (279.078 nm)	0.8787 (ppm)	1.16	0.8787 (ppm)	1594.5905
3/16/2018 20:08:19	R1801868-004 5X	Mn (257.610 nm)	0.0004 (ppm)	3.69	0.0004 (ppm)	115.9970
3/16/2018 20:08:19	R1801868-004 5X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	10.0378
3/16/2018 20:08:19	R1801868-004 5X	Na (588.995 nm)	12.4120 (ppm)	1.05	12.4120 (ppm)	442480.0609
3/16/2018 20:08:19	R1801868-004 5X	Ni (230.299 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-27.9468
3/16/2018 20:08:19	R1801868-004 5X	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	4.5699
3/16/2018 20:08:19	R1801868-004 5X	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0776
3/16/2018 20:08:19	R1801868-004 5X	Se (196.026 nm)	0.0012 (ppm)	> 100.00	0.0012 (ppm)	-0.0095
3/16/2018 20:08:19	R1801868-004 5X	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-0.4303
3/16/2018 20:08:19	R1801868-004 5X	Sr (216.596 nm)	0.2574 (ppm)	0.81	0.2574 (ppm)	3397.0024
3/16/2018 20:08:19	R1801868-004 5X	Ti (336.122 nm)	0.0002 (ppm)	23.01	0.0002 (ppm)	-553.9491
3/16/2018 20:08:19	R1801868-004 5X	Ti (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	13.8533
3/16/2018 20:08:19	R1801868-004 5X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	137.2113
3/16/2018 20:08:19	R1801868-004 5X	Y (360.074 nm)	1.01 (Ratio)	1.27	1.01 (Ratio)	739384.57
3/16/2018 20:08:19	R1801868-004 5X	Y_R (360.074 nm)	1.01 (Ratio)	1.27	1.01 (Ratio)	742433.73
3/16/2018 20:08:19	R1801868-004 5X	Zn (213.857 nm)	0.0004 (ppm)	4.74	0.0004 (ppm)	-20.1579
3/16/2018 20:11:38	Continuing Calibration Verification	Ag (328.068 nm)	0.4796 (ppm)	0.27	0.4796 (ppm)	29006.7722
3/16/2018 20:11:38	Continuing Calibration Verification	Al (394.401 nm)	9.5267 (ppm)	0.55	9.5267 (ppm)	97919.9507
3/16/2018 20:11:38	Continuing Calibration Verification	As (188.980 nm)	0.9653 (ppm)	0.93	0.9653 (ppm)	844.2054
3/16/2018 20:11:38	Continuing Calibration Verification	B (249.772 nm)	2.4295 (ppm)	0.37	2.4295 (ppm)	63860.3302
3/16/2018 20:11:38	Continuing Calibration Verification	Ba (230.424 nm)	10.0765 (ppm)	0.30	10.0765 (ppm)	295457.1013
3/16/2018 20:11:38	Continuing Calibration Verification	Be (313.107 nm)	0.2510 (ppm)	0.55	0.2510 (ppm)	332458.2855
3/16/2018 20:11:38	Continuing Calibration Verification	Ca (227.547 nm)	23.8776 (ppm)	0.34	23.8776 (ppm)	1084.6796
3/16/2018 20:11:38	Continuing Calibration Verification	Cd (214.439 nm)	0.5011 (ppm)	0.43	0.5011 (ppm)	10389.0762
3/16/2018 20:11:38	Continuing Calibration Verification	Co (230.786 nm)	2.5534 (ppm)	0.29	2.5534 (ppm)	22970.0541
3/16/2018 20:11:38	Continuing Calibration Verification	Cr (267.716 nm)	0.5177 (ppm)	0.40	0.5177 (ppm)	21896.6986
3/16/2018 20:11:38	Continuing Calibration Verification	Cu (327.395 nm)	1.2122 (ppm)	0.61	1.2122 (ppm)	60193.7704

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:11:38	Continuing Calibration Verification	Fe (234.350 nm)	4.9814 (ppm)	0.30	4.9814 (ppm)	48446.7293
3/16/2018 20:11:38	Continuing Calibration Verification	K (766.491 nm)	24.3466 (ppm)	0.64	24.3466 (ppm)	57709.1459
3/16/2018 20:11:38	Continuing Calibration Verification	Mg (279.078 nm)	24.5842 (ppm)	0.34	24.5842 (ppm)	44831.6636
3/16/2018 20:11:38	Continuing Calibration Verification	Mn (257.610 nm)	0.7616 (ppm)	0.39	0.7616 (ppm)	206809.3827
3/16/2018 20:11:38	Continuing Calibration Verification	Mo (202.032 nm)	2.4769 (ppm)	0.20	2.4769 (ppm)	22069.3814
3/16/2018 20:11:38	Continuing Calibration Verification	Na (588.995 nm)	24.4161 (ppm)	0.69	24.4161 (ppm)	878300.3373
3/16/2018 20:11:38	Continuing Calibration Verification	Ni (230.299 nm)	2.0377 (ppm)	0.34	2.0377 (ppm)	12679.3384
3/16/2018 20:11:38	Continuing Calibration Verification	Pb (220.353 nm)	0.4968 (ppm)	0.28	0.4968 (ppm)	1000.0685
3/16/2018 20:11:38	Continuing Calibration Verification	Sb (217.582 nm)	4.8761 (ppm)	0.38	4.8761 (ppm)	6155.5758
3/16/2018 20:11:38	Continuing Calibration Verification	Se (196.026 nm)	0.4864 (ppm)	1.87	0.4864 (ppm)	422.5504
3/16/2018 20:11:38	Continuing Calibration Verification	Sn (189.925 nm)	5.0823 (ppm)	0.51	5.0823 (ppm)	5763.9919
3/16/2018 20:11:38	Continuing Calibration Verification	Sr (216.596 nm)	2.4971 (ppm)	0.31	2.4971 (ppm)	32951.9187
3/16/2018 20:11:38	Continuing Calibration Verification	Ti (336.122 nm)	2.4470 (ppm)	0.32	2.4470 (ppm)	412187.7522
3/16/2018 20:11:38	Continuing Calibration Verification	Tl (351.923 nm)	0.9813 (ppm)	0.61	0.9813 (ppm)	2192.6214
3/16/2018 20:11:38	Continuing Calibration Verification	V (292.401 nm)	2.4960 (ppm)	0.44	2.4960 (ppm)	76213.3965
3/16/2018 20:11:38	Continuing Calibration Verification	Y (360.074 nm)	1.01 (Ratio)	0.84	1.01 (Ratio)	737041.53
3/16/2018 20:11:38	Continuing Calibration Verification	Y_R (360.074 nm)	1.01 (Ratio)	0.84	1.01 (Ratio)	740108.50
3/16/2018 20:11:38	Continuing Calibration Verification	Zn (213.857 nm)	0.9625 (ppm)	0.41	0.9625 (ppm)	27429.0430
3/16/2018 20:14:57	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	85.97	0.0002 (ppm)	-90.3978
3/16/2018 20:14:57	Continuing Calibration Blank	Al (394.401 nm)	0.0032 (ppm)	6.73	0.0032 (ppm)	155.2821
3/16/2018 20:14:57	Continuing Calibration Blank	As (188.980 nm)	-0.0010 u (ppm)	39.02	-0.0010 (ppm)	-3.9961
3/16/2018 20:14:57	Continuing Calibration Blank	B (249.772 nm)	0.0005 (ppm)	39.97	0.0005 (ppm)	109.0963
3/16/2018 20:14:57	Continuing Calibration Blank	Ba (230.424 nm)	0.0031 (ppm)	7.13	0.0031 (ppm)	91.0864
3/16/2018 20:14:57	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	11.22	0.0001 (ppm)	-456.1806
3/16/2018 20:14:57	Continuing Calibration Blank	Ca (227.547 nm)	0.0471 u (ppm)	> 100.00	0.0471 (ppm)	6.4917
3/16/2018 20:14:57	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.9807
3/16/2018 20:14:57	Continuing Calibration Blank	Co (230.786 nm)	0.0007 (ppm)	37.02	0.0007 (ppm)	4.2142
3/16/2018 20:14:57	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	4.7076
3/16/2018 20:14:57	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	46.28	0.0002 (ppm)	24.2028
3/16/2018 20:14:57	Continuing Calibration Blank	Fe (234.350 nm)	0.0022 (ppm)	6.48	0.0022 (ppm)	40.7350
3/16/2018 20:14:57	Continuing Calibration Blank	K (766.491 nm)	0.0177 (ppm)	86.53	0.0177 (ppm)	74.4640
3/16/2018 20:14:57	Continuing Calibration Blank	Mg (279.078 nm)	0.0071 (ppm)	8.20	0.0071 (ppm)	4.7775
3/16/2018 20:14:57	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	9.13	0.0002 (ppm)	62.3463
3/16/2018 20:14:57	Continuing Calibration Blank	Mo (202.032 nm)	0.0021 (ppm)	11.40	0.0021 (ppm)	29.4134
3/16/2018 20:14:57	Continuing Calibration Blank	Na (588.995 nm)	0.0139 (ppm)	3.50	0.0139 (ppm)	-7642.2396
3/16/2018 20:14:57	Continuing Calibration Blank	Ni (230.299 nm)	0.0007 (ppm)	22.37	0.0007 (ppm)	-17.3249
3/16/2018 20:14:57	Continuing Calibration Blank	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.2678
3/16/2018 20:14:57	Continuing Calibration Blank	Sb (217.582 nm)	0.0036 (ppm)	56.52	0.0036 (ppm)	4.4881
3/16/2018 20:14:57	Continuing Calibration Blank	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.4460
3/16/2018 20:14:57	Continuing Calibration Blank	Sn (189.925 nm)	0.0011 (ppm)	> 100.00	0.0011 (ppm)	1.8514
3/16/2018 20:14:57	Continuing Calibration Blank	Sr (216.596 nm)	0.0006 (ppm)	21.66	0.0006 (ppm)	8.6284
3/16/2018 20:14:57	Continuing Calibration Blank	Ti (336.122 nm)	0.0018 (ppm)	10.33	0.0018 (ppm)	-280.3631
3/16/2018 20:14:57	Continuing Calibration Blank	Tl (351.923 nm)	0.0028 (ppm)	92.71	0.0028 (ppm)	22.7226
3/16/2018 20:14:57	Continuing Calibration Blank	V (292.401 nm)	0.0005 (ppm)	56.91	0.0005 (ppm)	150.6315
3/16/2018 20:14:57	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.85	1.02 (Ratio)	748630.99
3/16/2018 20:14:57	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.85	1.02 (Ratio)	752001.57
3/16/2018 20:14:57	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	50.33	0.0003 (ppm)	-21.5717
3/16/2018 20:18:16	R1801868-005 10X	Ag (328.068 nm)	0.0001 (ppm)	91.70	0.0001 (ppm)	-93.5726
3/16/2018 20:18:16	R1801868-005 10X	Al (394.401 nm)	0.0227 (ppm)	2.55	0.0227 (ppm)	355.9213
3/16/2018 20:18:16	R1801868-005 10X	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-3.8198
3/16/2018 20:18:16	R1801868-005 10X	B (249.772 nm)	0.0053 (ppm)	3.96	0.0053 (ppm)	235.2395



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:18:16	R1801868-005 10X	Ba (230.424 nm)	0.0206 (ppm)	1.42	0.0206 (ppm)	602.3936
3/16/2018 20:18:16	R1801868-005 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-547.9894
3/16/2018 20:18:16	R1801868-005 10X	Ca (227.547 nm)	67.5466 u (ppm)	0.85	67.5466 (ppm)	3060.4445
3/16/2018 20:18:16	R1801868-005 10X	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.2349
3/16/2018 20:18:16	R1801868-005 10X	Co (230.786 nm)	-0.0005 u (ppm)	51.01	-0.0005 (ppm)	-6.4543
3/16/2018 20:18:16	R1801868-005 10X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.4456
3/16/2018 20:18:16	R1801868-005 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.6506
3/16/2018 20:18:16	R1801868-005 10X	Fe (234.350 nm)	0.0008 (ppm)	48.69	0.0008 (ppm)	27.6240
3/16/2018 20:18:16	R1801868-005 10X	K (766.491 nm)	4.6800 (ppm)	0.67	4.6800 (ppm)	11119.3031
3/16/2018 20:18:16	R1801868-005 10X	Mg (279.078 nm)	0.5534 (ppm)	0.81	0.5534 (ppm)	1001.3358
3/16/2018 20:18:16	R1801868-005 10X	Mn (257.610 nm)	0.0001 (ppm)	2.58	0.0001 (ppm)	40.6706
3/16/2018 20:18:16	R1801868-005 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	9.9719
3/16/2018 20:18:16	R1801868-005 10X	Na (588.995 nm)	32.6010 (ppm)	0.93	32.6010 (ppm)	1175461.8790
3/16/2018 20:18:16	R1801868-005 10X	Ni (230.299 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-27.1551
3/16/2018 20:18:16	R1801868-005 10X	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.3036
3/16/2018 20:18:16	R1801868-005 10X	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.4119
3/16/2018 20:18:16	R1801868-005 10X	Se (196.026 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-0.7583
3/16/2018 20:18:16	R1801868-005 10X	Sn (189.925 nm)	-0.0021 u (ppm)	91.77	-0.0021 (ppm)	-1.7749
3/16/2018 20:18:16	R1801868-005 10X	Sr (216.596 nm)	0.4370 (ppm)	1.27	0.4370 (ppm)	5766.9875
3/16/2018 20:18:16	R1801868-005 10X	Ti (336.122 nm)	0.0006 (ppm)	32.44	0.0006 (ppm)	-493.2987
3/16/2018 20:18:16	R1801868-005 10X	Tl (351.923 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	19.3676
3/16/2018 20:18:16	R1801868-005 10X	V (292.401 nm)	0.0002 (ppm)	43.49	0.0002 (ppm)	141.8866
3/16/2018 20:18:16	R1801868-005 10X	Y (360.074 nm)	1.00 (Ratio)	1.89	1.00 (Ratio)	730134.49
3/16/2018 20:18:16	R1801868-005 10X	Y_R (360.074 nm)	1.00 (Ratio)	1.89	1.00 (Ratio)	733301.56
3/16/2018 20:18:16	R1801868-005 10X	Zn (213.857 nm)	0.0007 (ppm)	22.11	0.0007 (ppm)	-9.6452
3/16/2018 20:21:35	R1801868-005 10X	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-96.0976
3/16/2018 20:21:35	R1801868-005 10X	Al (394.401 nm)	0.0218 (ppm)	0.90	0.0218 (ppm)	346.6964
3/16/2018 20:21:35	R1801868-006 10X	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-3.4228
3/16/2018 20:21:35	R1801868-006 10X	B (249.772 nm)	0.0017 (ppm)	15.06	0.0017 (ppm)	139.3934
3/16/2018 20:21:35	R1801868-006 10X	Ba (230.424 nm)	0.0204 (ppm)	0.53	0.0204 (ppm)	597.7612
3/16/2018 20:21:35	R1801868-006 10X	Be (313.107 nm)	0.0000 (ppm)	49.69	0.0000 (ppm)	-546.0724
3/16/2018 20:21:35	R1801868-006 10X	Ca (227.547 nm)	64.9385 u (ppm)	0.73	64.9385 (ppm)	2942.4452
3/16/2018 20:21:35	R1801868-006 10X	Cd (214.439 nm)	-0.0001 u (ppm)	46.74	-0.0001 (ppm)	15.2385
3/16/2018 20:21:35	R1801868-006 10X	Co (230.786 nm)	-0.0005 u (ppm)	89.54	-0.0005 (ppm)	-6.3269
3/16/2018 20:21:35	R1801868-006 10X	Cr (267.716 nm)	0.0002 (ppm)	84.11	0.0002 (ppm)	7.5517
3/16/2018 20:21:35	R1801868-006 10X	Cu (327.395 nm)	0.0001 (ppm)	48.09	0.0001 (ppm)	22.8816
3/16/2018 20:21:35	R1801868-006 10X	Fe (234.350 nm)	0.0003 (ppm)	80.87	0.0003 (ppm)	22.8038
3/16/2018 20:21:35	R1801868-006 10X	K (766.491 nm)	3.9144 (ppm)	0.91	3.9144 (ppm)	9305.6296
3/16/2018 20:21:35	R1801868-006 10X	Mg (279.078 nm)	0.0557 (ppm)	0.60	0.0557 (ppm)	93.5406
3/16/2018 20:21:35	R1801868-006 10X	Mn (257.610 nm)	0.0000 (ppm)	28.48	0.0000 (ppm)	9.0541
3/16/2018 20:21:35	R1801868-006 10X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	11.1475
3/16/2018 20:21:35	R1801868-006 10X	Na (588.995 nm)	22.9134 (ppm)	0.86	22.9134 (ppm)	823742.5190
3/16/2018 20:21:35	R1801868-006 10X	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-21.5072
3/16/2018 20:21:35	R1801868-006 10X	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.2049
3/16/2018 20:21:35	R1801868-006 10X	Sb (217.582 nm)	0.0030 (ppm)	81.25	0.0030 (ppm)	3.7385
3/16/2018 20:21:35	R1801868-006 10X	Se (196.026 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	0.5127
3/16/2018 20:21:35	R1801868-006 10X	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.2715
3/16/2018 20:21:35	R1801868-006 10X	Sr (216.596 nm)	0.3977 (ppm)	0.94	0.3977 (ppm)	5248.8175
3/16/2018 20:21:35	R1801868-006 10X	Ti (336.122 nm)	0.0004 (ppm)	31.62	0.0004 (ppm)	-527.4276
3/16/2018 20:21:35	R1801868-006 10X	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.2551
3/16/2018 20:21:35	R1801868-006 10X	V (292.401 nm)	0.0004 (ppm)	57.33	0.0004 (ppm)	148.9430

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:21:35	R1801868-006 10X	Y (360.074 nm)	1.01 (Ratio)	0.86	1.01 (Ratio)	735730.18
3/16/2018 20:21:35	R1801868-006 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.86	1.01 (Ratio)	739069.25
3/16/2018 20:21:35	R1801868-006 10X	Zn (213.857 nm)	0.0009 (ppm)	11.13	0.0009 (ppm)	-3.2864
3/16/2018 20:24:54	R1801868-007 10X	Ag (328.068 nm)	0.0001 (ppm)	78.67	0.0001 (ppm)	-93.6427
3/16/2018 20:24:54	R1801868-007 10X	Al (394.401 nm)	0.0287 (ppm)	2.16	0.0287 (ppm)	417.5969
3/16/2018 20:24:54	R1801868-007 10X	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.1841
3/16/2018 20:24:54	R1801868-007 10X	B (249.772 nm)	0.0011 (ppm)	2.93	0.0011 (ppm)	123.5351
3/16/2018 20:24:54	R1801868-007 10X	Ba (230.424 nm)	0.0341 (ppm)	1.47	0.0341 (ppm)	998.1559
3/16/2018 20:24:54	R1801868-007 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-544.7619
3/16/2018 20:24:54	R1801868-007 10X	Ca (227.547 nm)	112.0058 o (ppm)	1.57	112.0058 (ppm)	5071.9655
3/16/2018 20:24:54	R1801868-007 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.9156
3/16/2018 20:24:54	R1801868-007 10X	Co (230.786 nm)	-0.0003 u (ppm)	47.91	-0.0003 (ppm)	-5.1052
3/16/2018 20:24:54	R1801868-007 10X	Cr (267.716 nm)	-0.0002 u (ppm)	19.15	-0.0002 (ppm)	-10.9570
3/16/2018 20:24:54	R1801868-007 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	21.6841
3/16/2018 20:24:54	R1801868-007 10X	Fe (234.350 nm)	0.0008 (ppm)	48.05	0.0008 (ppm)	27.1318
3/16/2018 20:24:54	R1801868-007 10X	K (766.491 nm)	6.3488 (ppm)	1.69	6.3488 (ppm)	15072.6438
3/16/2018 20:24:54	R1801868-007 10X	Mg (279.078 nm)	0.2055 (ppm)	0.89	0.2055 (ppm)	366.7711
3/16/2018 20:24:54	R1801868-007 10X	Mn (257.610 nm)	0.0012 (ppm)	3.66	0.0012 (ppm)	320.1473
3/16/2018 20:24:54	R1801868-007 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	10.6127
3/16/2018 20:24:54	R1801868-007 10X	Na (588.995 nm)	35.7444 (ppm)	1.60	35.7444 (ppm)	1289584.0188
3/16/2018 20:24:54	R1801868-007 10X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.5149
3/16/2018 20:24:54	R1801868-007 10X	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	3.4829
3/16/2018 20:24:54	R1801868-007 10X	Sb (217.582 nm)	0.0047 (ppm)	34.04	0.0047 (ppm)	5.9206
3/16/2018 20:24:54	R1801868-007 10X	Se (196.026 nm)	-0.0024 u (ppm)	67.57	-0.0024 (ppm)	-3.0956
3/16/2018 20:24:54	R1801868-007 10X	Sn (189.925 nm)	-0.0016 u (ppm)	90.04	-0.0016 (ppm)	-1.2319
3/16/2018 20:24:54	R1801868-007 10X	Sr (216.596 nm)	0.5704 (ppm)	1.12	0.5704 (ppm)	7527.0571
3/16/2018 20:24:54	R1801868-007 10X	Ti (336.122 nm)	0.0006 (ppm)	11.45	0.0006 (ppm)	-485.7334
3/16/2018 20:24:54	R1801868-007 10X	Tl (351.923 nm)	-0.0007 u (ppm)	44.48	-0.0007 (ppm)	15.0318
3/16/2018 20:24:54	R1801868-007 10X	V (292.401 nm)	0.0004 (ppm)	70.49	0.0004 (ppm)	149.1377
3/16/2018 20:24:54	R1801868-007 10X	Y (360.074 nm)	1.00 (Ratio)	1.08	1.00 (Ratio)	730442.64
3/16/2018 20:24:54	R1801868-007 10X	Y_R (360.074 nm)	1.00 (Ratio)	1.08	1.00 (Ratio)	733760.07
3/16/2018 20:24:54	R1801868-007 10X	Zn (213.857 nm)	0.0010 (ppm)	9.03	0.0010 (ppm)	-2.3967
3/16/2018 20:28:14	R1801868-008 10X	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-95.5756
3/16/2018 20:28:14	R1801868-008 10X	Al (394.401 nm)	0.0296 (ppm)	4.05	0.0296 (ppm)	427.0334
3/16/2018 20:28:14	R1801868-008 10X	As (188.980 nm)	-0.0017 u (ppm)	66.06	-0.0017 (ppm)	-4.6586
3/16/2018 20:28:14	R1801868-008 10X	B (249.772 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	96.4749
3/16/2018 20:28:14	R1801868-008 10X	Ba (230.424 nm)	0.0470 (ppm)	0.33	0.0470 (ppm)	1377.6036
3/16/2018 20:28:14	R1801868-008 10X	Be (313.107 nm)	0.0000 (ppm)	31.00	0.0000 (ppm)	-544.6817
3/16/2018 20:28:14	R1801868-008 10X	Ca (227.547 nm)	167.3020 o (ppm)	0.60	167.3020 (ppm)	7573.7885
3/16/2018 20:28:14	R1801868-008 10X	Cd (214.439 nm)	0.0002 (ppm)	67.93	0.0002 (ppm)	21.0494
3/16/2018 20:28:14	R1801868-008 10X	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-4.1832
3/16/2018 20:28:14	R1801868-008 10X	Cr (267.716 nm)	-0.0001 u (ppm)	80.78	-0.0001 (ppm)	-6.4550
3/16/2018 20:28:14	R1801868-008 10X	Cu (327.395 nm)	0.0004 (ppm)	9.17	0.0004 (ppm)	36.4638
3/16/2018 20:28:14	R1801868-008 10X	Fe (234.350 nm)	-0.0002 u (ppm)	55.69	-0.0002 (ppm)	17.9580
3/16/2018 20:28:14	R1801868-008 10X	K (766.491 nm)	8.8555 (ppm)	0.80	8.8555 (ppm)	21011.0970
3/16/2018 20:28:14	R1801868-008 10X	Mg (279.078 nm)	0.0087 (ppm)	17.75	0.0087 (ppm)	7.7649
3/16/2018 20:28:14	R1801868-008 10X	Mn (257.610 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	2.1228
3/16/2018 20:28:14	R1801868-008 10X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	10.1969
3/16/2018 20:28:14	R1801868-008 10X	Na (588.995 nm)	59.6532 o (ppm)	0.89	59.6532 (ppm)	2157613.8992
3/16/2018 20:28:14	R1801868-008 10X	Ni (230.299 nm)	0.0007 (ppm)	71.68	0.0007 (ppm)	-17.3964
3/16/2018 20:28:14	R1801868-008 10X	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	3.7558

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:28:14	R1801868-008 10X	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.4439
3/16/2018 20:28:14	R1801868-008 10X	Se (196.026 nm)	0.0015 (ppm)	55.69	0.0015 (ppm)	0.2655
3/16/2018 20:28:14	R1801868-008 10X	Sn (189.925 nm)	-0.0026 u (ppm)	64.08	-0.0026 (ppm)	-2.3027
3/16/2018 20:28:14	R1801868-008 10X	Sr (216.596 nm)	0.6640 (ppm)	0.77	0.6640 (ppm)	8762.5261
3/16/2018 20:28:14	R1801868-008 10X	Ti (336.122 nm)	0.0010 (ppm)	7.09	0.0010 (ppm)	-419.5675
3/16/2018 20:28:14	R1801868-008 10X	Tl (351.923 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	21.9315
3/16/2018 20:28:14	R1801868-008 10X	V (292.401 nm)	0.0004 (ppm)	42.30	0.0004 (ppm)	146.6720
3/16/2018 20:28:14	R1801868-008 10X	Y (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	720752.02
3/16/2018 20:28:14	R1801868-008 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	724006.49
3/16/2018 20:28:14	R1801868-008 10X	Zn (213.857 nm)	0.0008 (ppm)	5.31	0.0008 (ppm)	-6.4702
3/16/2018 20:31:34	R1801868-009 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-98.5682
3/16/2018 20:31:34	R1801868-009 10X	Al (394.401 nm)	0.0304 (ppm)	1.85	0.0304 (ppm)	434.3326
3/16/2018 20:31:34	R1801868-009 10X	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-3.5017
3/16/2018 20:31:34	R1801868-009 10X	B (249.772 nm)	0.0033 (ppm)	6.52	0.0033 (ppm)	181.4297
3/16/2018 20:31:34	R1801868-009 10X	Ba (230.424 nm)	0.0253 (ppm)	1.41	0.0253 (ppm)	740.1713
3/16/2018 20:31:34	R1801868-009 10X	Be (313.107 nm)	0.0000 (ppm)	40.45	0.0000 (ppm)	-535.0579
3/16/2018 20:31:34	R1801868-009 10X	Ca (227.547 nm)	98.7135 o (ppm)	0.45	98.7135 (ppm)	4470.5672
3/16/2018 20:31:34	R1801868-009 10X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.5908
3/16/2018 20:31:34	R1801868-009 10X	Co (230.786 nm)	-0.0003 u (ppm)	95.18	-0.0003 (ppm)	-4.8939
3/16/2018 20:31:34	R1801868-009 10X	Cr (267.716 nm)	-0.0001 u (ppm)	83.20	-0.0001 (ppm)	-8.2245
3/16/2018 20:31:34	R1801868-009 10X	Cu (327.395 nm)	0.0002 (ppm)	61.59	0.0002 (ppm)	26.5234
3/16/2018 20:31:34	R1801868-009 10X	Fe (234.350 nm)	0.0005 (ppm)	29.68	0.0005 (ppm)	24.2389
3/16/2018 20:31:34	R1801868-009 10X	K (766.491 nm)	4.7749 (ppm)	0.68	4.7749 (ppm)	11344.2121
3/16/2018 20:31:34	R1801868-009 10X	Mg (279.078 nm)	0.7776 (ppm)	0.32	0.7776 (ppm)	1410.2734
3/16/2018 20:31:34	R1801868-009 10X	Mn (257.610 nm)	0.0003 (ppm)	0.73	0.0003 (ppm)	87.2191
3/16/2018 20:31:34	R1801868-009 10X	Mo (202.032 nm)	-0.0004 u (ppm)	58.90	-0.0004 (ppm)	6.8305
3/16/2018 20:31:34	R1801868-009 10X	Na (588.995 nm)	33.7887 (ppm)	0.58	33.7887 (ppm)	1218579.2594
3/16/2018 20:31:34	R1801868-009 10X	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-23.2682
3/16/2018 20:31:34	R1801868-009 10X	Pb (220.353 nm)	-0.0025 u (ppm)	5.57	-0.0025 (ppm)	1.0133
3/16/2018 20:31:34	R1801868-009 10X	Sb (217.582 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	2.3051
3/16/2018 20:31:34	R1801868-009 10X	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-2.2599
3/16/2018 20:31:34	R1801868-009 10X	Sn (189.925 nm)	-0.0023 u (ppm)	38.95	-0.0023 (ppm)	-2.0162
3/16/2018 20:31:34	R1801868-009 10X	Sr (216.596 nm)	0.4325 (ppm)	0.25	0.4325 (ppm)	5708.3515
3/16/2018 20:31:34	R1801868-009 10X	Ti (336.122 nm)	0.0005 (ppm)	5.33	0.0005 (ppm)	-495.1949
3/16/2018 20:31:34	R1801868-009 10X	Tl (351.923 nm)	-0.0025 u (ppm)	27.42	-0.0025 (ppm)	10.8505
3/16/2018 20:31:34	R1801868-009 10X	V (292.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	141.4071
3/16/2018 20:31:34	R1801868-009 10X	Y (360.074 nm)	1.00 (Ratio)	0.65	1.00 (Ratio)	732596.40
3/16/2018 20:31:34	R1801868-009 10X	Y_R (360.074 nm)	1.00 (Ratio)	0.65	1.00 (Ratio)	735910.37
3/16/2018 20:31:34	R1801868-009 10X	Zn (213.857 nm)	0.0012 (ppm)	6.51	0.0012 (ppm)	3.5305
3/16/2018 20:34:52	R1801868-010 5X	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-97.3685
3/16/2018 20:34:52	R1801868-010 5X	Al (394.401 nm)	0.0245 (ppm)	0.59	0.0245 (ppm)	374.5183
3/16/2018 20:34:52	R1801868-010 5X	As (188.980 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-5.3228
3/16/2018 20:34:52	R1801868-010 5X	B (249.772 nm)	0.0117 (ppm)	0.55	0.0117 (ppm)	403.3378
3/16/2018 20:34:52	R1801868-010 5X	Ba (230.424 nm)	0.0196 (ppm)	0.92	0.0196 (ppm)	572.5842
3/16/2018 20:34:52	R1801868-010 5X	Be (313.107 nm)	0.0000 (ppm)	94.90	0.0000 (ppm)	-540.4592
3/16/2018 20:34:52	R1801868-010 5X	Ca (227.547 nm)	61.7590 o (ppm) †	0.80	61.7590 (ppm)	2798.5918
3/16/2018 20:34:52	R1801868-010 5X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.3619
3/16/2018 20:34:52	R1801868-010 5X	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-4.1240
3/16/2018 20:34:52	R1801868-010 5X	Cr (267.716 nm)	0.0002 (ppm)	21.57	0.0002 (ppm)	6.0421
3/16/2018 20:34:52	R1801868-010 5X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	19.9124
3/16/2018 20:34:52	R1801868-010 5X	Fe (234.350 nm)	0.0007 (ppm)	40.80	0.0007 (ppm)	26.2197

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:34:52	R1801868-010 5X	K (766.491 nm)	3.3787 (ppm)	0.86	3.3787 (ppm)	8036.5831
3/16/2018 20:34:52	R1801868-010 5X	Mg (279.078 nm)	0.3345 (ppm)	0.69	0.3345 (ppm)	601.9218
3/16/2018 20:34:52	R1801868-010 5X	Mn (257.610 nm)	0.0001 (ppm)	10.70	0.0001 (ppm)	28.4171
3/16/2018 20:34:52	R1801868-010 5X	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	12.3576
3/16/2018 20:34:52	R1801868-010 5X	Na (588.995 nm)	16.9262 (ppm)	0.72	16.9262 (ppm)	606372.8178
3/16/2018 20:34:52	R1801868-010 5X	Ni (230.299 nm)	-0.0003 u (ppm)	89.89	-0.0003 (ppm)	-23.7942
3/16/2018 20:34:52	R1801868-010 5X	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.4026
3/16/2018 20:34:52	R1801868-010 5X	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.7068
3/16/2018 20:34:52	R1801868-010 5X	Se (196.026 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-0.3306
3/16/2018 20:34:52	R1801868-010 5X	Sn (189.925 nm)	-0.0015 u (ppm)	90.85	-0.0015 (ppm)	-1.0995
3/16/2018 20:34:52	R1801868-010 5X	Sr (216.596 nm)	0.3588 (ppm)	0.53	0.3588 (ppm)	4735.8282
3/16/2018 20:34:52	R1801868-010 5X	Ti (336.122 nm)	0.0004 (ppm)	20.40	0.0004 (ppm)	-52.9780
3/16/2018 20:34:52	R1801868-010 5X	Tl (351.923 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	14.7874
3/16/2018 20:34:52	R1801868-010 5X	V (292.401 nm)	0.0009 (ppm)	4.32	0.0009 (ppm)	164.4043
3/16/2018 20:34:52	R1801868-010 5X	Y (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	738578.86
3/16/2018 20:34:52	R1801868-010 5X	Y_R (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	741983.46
3/16/2018 20:34:52	R1801868-010 5X	Zn (213.857 nm)	0.0007 (ppm)	7.78	0.0007 (ppm)	-9.1700
3/16/2018 20:38:11	R1801868-011 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.5717
3/16/2018 20:38:11	R1801868-011 10X	Al (394.401 nm)	0.0721 (ppm)	1.26	0.0721 (ppm)	862.3201
3/16/2018 20:38:11	R1801868-011 10X	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-4.0303
3/16/2018 20:38:11	R1801868-011 10X	B (249.772 nm)	0.0034 (ppm)	5.69	0.0034 (ppm)	184.7175
3/16/2018 20:38:11	R1801868-011 10X	Ba (230.424 nm)	0.0273 (ppm)	1.49	0.0273 (ppm)	800.9780
3/16/2018 20:38:11	R1801868-011 10X	Be (313.107 nm)	0.0000 (ppm)	66.91	0.0000 (ppm)	-551.9831
3/16/2018 20:38:11	R1801868-011 10X	Ca (227.547 nm)	89.9235 u (ppm)	0.29	89.9235 (ppm)	4072.8705
3/16/2018 20:38:11	R1801868-011 10X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	19.4090
3/16/2018 20:38:11	R1801868-011 10X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.9776
3/16/2018 20:38:11	R1801868-011 10X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-7.8785
3/16/2018 20:38:11	R1801868-011 10X	Cu (327.395 nm)	0.0003 (ppm)	21.53	0.0003 (ppm)	32.7443
3/16/2018 20:38:11	R1801868-011 10X	Fe (234.350 nm)	0.0126 (ppm)	1.79	0.0126 (ppm)	142.0271
3/16/2018 20:38:11	R1801868-011 10X	K (766.491 nm)	4.6190 (ppm)	0.43	4.6190 (ppm)	10974.8939
3/16/2018 20:38:11	R1801868-011 10X	Mg (279.078 nm)	0.0564 (ppm)	3.20	0.0564 (ppm)	94.7121
3/16/2018 20:38:11	R1801868-011 10X	Mn (257.610 nm)	0.0010 (ppm)	1.20	0.0010 (ppm)	269.7079
3/16/2018 20:38:11	R1801868-011 10X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	7.4557
3/16/2018 20:38:11	R1801868-011 10X	Na (588.995 nm)	31.6253 (ppm)	0.53	31.6253 (ppm)	1140035.8952
3/16/2018 20:38:11	R1801868-011 10X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.3020
3/16/2018 20:38:11	R1801868-011 10X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.8354
3/16/2018 20:38:11	R1801868-011 10X	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	1.7749
3/16/2018 20:38:11	R1801868-011 10X	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.7537
3/16/2018 20:38:11	R1801868-011 10X	Sn (189.925 nm)	-0.0029 u (ppm)	61.85	-0.0029 (ppm)	-2.6260
3/16/2018 20:38:11	R1801868-011 10X	Sr (216.596 nm)	0.6435 (ppm)	0.93	0.6435 (ppm)	8491.7488
3/16/2018 20:38:11	R1801868-011 10X	Ti (336.122 nm)	0.0006 (ppm)	4.87	0.0006 (ppm)	-483.6886
3/16/2018 20:38:11	R1801868-011 10X	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	17.0776
3/16/2018 20:38:11	R1801868-011 10X	V (292.401 nm)	0.0008 (ppm)	21.93	0.0008 (ppm)	159.9492
3/16/2018 20:38:11	R1801868-011 10X	Y (360.074 nm)	1.00 (Ratio)	0.59	1.00 (Ratio)	734652.33
3/16/2018 20:38:11	R1801868-011 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.59	1.01 (Ratio)	737940.55
3/16/2018 20:38:11	R1801868-011 10X	Zn (213.857 nm)	0.0016 (ppm)	10.64	0.0016 (ppm)	16.7052
3/16/2018 20:41:30	R1801868-012 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.8056
3/16/2018 20:41:30	R1801868-012 10X	Al (394.401 nm)	0.0351 (ppm)	1.47	0.0351 (ppm)	482.6451
3/16/2018 20:41:30	R1801868-012 10X	As (188.980 nm)	0.0012 (ppm)	87.97	0.0012 (ppm)	-2.0587
3/16/2018 20:41:30	R1801868-012 10X	B (249.772 nm)	-0.0009 u (ppm)	30.41	-0.0009 (ppm)	71.5588
3/16/2018 20:41:30	R1801868-012 10X	Ba (230.424 nm)	0.0231 (ppm)	0.60	0.0231 (ppm)	677.9134

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:41:30	R1801868-012 10X	Be (313.107 nm)	0.0000 (ppm)	42.13	0.0000 (ppm)	-547.4961
3/16/2018 20:41:30	R1801868-012 10X	Ca (227.547 nm)	83.4296 o (ppm)	0.29	83.4296 (ppm)	3779.0589
3/16/2018 20:41:30	R1801868-012 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.1025
3/16/2018 20:41:30	R1801868-012 10X	Co (230.786 nm)	-0.0002 u (ppm)	24.84	-0.0002 (ppm)	-3.8343
3/16/2018 20:41:30	R1801868-012 10X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.5603
3/16/2018 20:41:30	R1801868-012 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.4291
3/16/2018 20:41:30	R1801868-012 10X	Fe (234.350 nm)	-0.0006 u (ppm)	42.16	-0.0006 (ppm)	14.3372
3/16/2018 20:41:30	R1801868-012 10X	K (766.491 nm)	2.8204 (ppm)	0.10	2.8204 (ppm)	6713.9967
3/16/2018 20:41:30	R1801868-012 10X	Mg (279.078 nm)	0.1158 (ppm)	0.50	0.1158 (ppm)	203.1857
3/16/2018 20:41:30	R1801868-012 10X	Mn (257.610 nm)	0.0001 (ppm)	10.39	0.0001 (ppm)	37.4453
3/16/2018 20:41:30	R1801868-012 10X	Mo (202.032 nm)	-0.0005 u (ppm)	94.11	-0.0005 (ppm)	5.9071
3/16/2018 20:41:30	R1801868-012 10X	Na (588.995 nm)	23.4553 (ppm)	0.41	23.4553 (ppm)	843418.7082
3/16/2018 20:41:30	R1801868-012 10X	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-21.5599
3/16/2018 20:41:30	R1801868-012 10X	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.2470
3/16/2018 20:41:30	R1801868-012 10X	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.6975
3/16/2018 20:41:30	R1801868-012 10X	Se (196.026 nm)	0.0016 (ppm)	27.17	0.0016 (ppm)	0.3231
3/16/2018 20:41:30	R1801868-012 10X	Sn (189.925 nm)	-0.0022 u (ppm)	13.36	-0.0022 (ppm)	-1.9023
3/16/2018 20:41:30	R1801868-012 10X	Sr (216.596 nm)	0.5392 (ppm)	0.02	0.5392 (ppm)	7116.3752
3/16/2018 20:41:30	R1801868-012 10X	Ti (336.122 nm)	0.0004 (ppm)	22.60	0.0004 (ppm)	-525.6753
3/16/2018 20:41:30	R1801868-012 10X	Tl (351.923 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	12.1441
3/16/2018 20:41:30	R1801868-012 10X	V (292.401 nm)	0.0003 (ppm)	30.33	0.0003 (ppm)	143.6959
3/16/2018 20:41:30	R1801868-012 10X	Y (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	737716.13
3/16/2018 20:41:30	R1801868-012 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	740931.09
3/16/2018 20:41:30	R1801868-012 10X	Zn (213.857 nm)	0.0012 (ppm)	3.87	0.0012 (ppm)	4.6448
3/16/2018 20:44:49	R1801868-013 10X	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-95.1129
3/16/2018 20:44:49	R1801868-013 10X	Al (394.401 nm)	0.0348 (ppm)	2.33	0.0348 (ppm)	479.4193
3/16/2018 20:44:49	R1801868-013 10X	As (188.980 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-3.6498
3/16/2018 20:44:49	R1801868-013 10X	B (249.772 nm)	-0.0009 u (ppm)	15.48	-0.0009 (ppm)	71.0451
3/16/2018 20:44:49	R1801868-013 10X	Ba (230.424 nm)	0.0231 (ppm)	1.95	0.0231 (ppm)	675.3935
3/16/2018 20:44:49	R1801868-013 10X	Be (313.107 nm)	0.0000 (ppm)	71.95	0.0000 (ppm)	-544.8815
3/16/2018 20:44:49	R1801868-013 10X	Ca (227.547 nm)	82.4451 o (ppm)	0.24	82.4451 (ppm)	3734.5150
3/16/2018 20:44:49	R1801868-013 10X	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.3808
3/16/2018 20:44:49	R1801868-013 10X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.8167
3/16/2018 20:44:49	R1801868-013 10X	Cr (267.716 nm)	-0.0002 u (ppm)	33.81	-0.0002 (ppm)	-10.2244
3/16/2018 20:44:49	R1801868-013 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	21.6672
3/16/2018 20:44:49	R1801868-013 10X	Fe (234.350 nm)	0.0012 (ppm)	26.04	0.0012 (ppm)	31.9486
3/16/2018 20:44:49	R1801868-013 10X	K (766.491 nm)	3.0801 (ppm)	0.35	3.0801 (ppm)	7329.1863
3/16/2018 20:44:49	R1801868-013 10X	Mg (279.078 nm)	0.1444 (ppm)	1.63	0.1444 (ppm)	255.2684
3/16/2018 20:44:49	R1801868-013 10X	Mn (257.610 nm)	0.0016 (ppm)	2.56	0.0016 (ppm)	434.6419
3/16/2018 20:44:49	R1801868-013 10X	Mo (202.032 nm)	-0.0003 u (ppm)	23.36	-0.0003 (ppm)	7.6225
3/16/2018 20:44:49	R1801868-013 10X	Na (588.995 nm)	25.7660 (ppm)	0.43	25.7660 (ppm)	927308.5959
3/16/2018 20:44:49	R1801868-013 10X	Ni (230.299 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-24.4927
3/16/2018 20:44:49	R1801868-013 10X	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.0528
3/16/2018 20:44:49	R1801868-013 10X	Sb (217.582 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	-2.8858
3/16/2018 20:44:49	R1801868-013 10X	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.2704
3/16/2018 20:44:49	R1801868-013 10X	Sn (189.925 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-1.1490
3/16/2018 20:44:49	R1801868-013 10X	Sr (216.596 nm)	0.5095 (ppm)	0.44	0.5095 (ppm)	6724.2609
3/16/2018 20:44:49	R1801868-013 10X	Ti (336.122 nm)	0.0004 (ppm)	18.18	0.0004 (ppm)	-524.6057
3/16/2018 20:44:49	R1801868-013 10X	Tl (351.923 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	13.0609
3/16/2018 20:44:49	R1801868-013 10X	V (292.401 nm)	0.0003 (ppm)	71.95	0.0003 (ppm)	144.3850
3/16/2018 20:44:49	R1801868-013 10X	Y (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	735302.81

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:44:49	R1801868-013 10X	Y_R (360.074 nm)	1.01 (Ratio)	0.70	1.01 (Ratio)	738536.41
3/16/2018 20:44:49	R1801868-013 10X	Zn (213.857 nm)	0.0022 (ppm)	3.46	0.0022 (ppm)	33.8355
3/16/2018 20:48:08	R1801868-014 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-100.1229
3/16/2018 20:48:08	R1801868-014 10X	Al (394.401 nm)	0.0378 (ppm)	3.91	0.0378 (ppm)	510.3895
3/16/2018 20:48:08	R1801868-014 10X	As (188.980 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-1.9472
3/16/2018 20:48:08	R1801868-014 10X	B (249.772 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	95.1622
3/16/2018 20:48:08	R1801868-014 10X	Ba (230.424 nm)	0.1294 (ppm)	0.70	0.1294 (ppm)	3794.0153
3/16/2018 20:48:08	R1801868-014 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-560.7532
3/16/2018 20:48:08	R1801868-014 10X	Ca (227.547 nm)	334.3237 o (ppm)	0.71	334.3237 (ppm)	15130.5382
3/16/2018 20:48:08	R1801868-014 10X	Cd (214.439 nm)	0.0002 (ppm)	22.14	0.0002 (ppm)	20.6698
3/16/2018 20:48:08	R1801868-014 10X	Co (230.786 nm)	-0.0006 u (ppm)	37.13	-0.0006 (ppm)	-7.2139
3/16/2018 20:48:08	R1801868-014 10X	Cr (267.716 nm)	-0.0004 u (ppm)	34.55	-0.0004 (ppm)	-17.7141
3/16/2018 20:48:08	R1801868-014 10X	Cu (327.395 nm)	0.0002 (ppm)	39.52	0.0002 (ppm)	25.2732
3/16/2018 20:48:08	R1801868-014 10X	Fe (234.350 nm)	0.0021 (ppm)	7.14	0.0021 (ppm)	40.1221
3/16/2018 20:48:08	R1801868-014 10X	K (766.491 nm)	9.7428 (ppm)	0.86	9.7428 (ppm)	23113.0293
3/16/2018 20:48:08	R1801868-014 10X	Mg (279.078 nm)	1.0365 (ppm)	0.73	1.0365 (ppm)	1882.4520
3/16/2018 20:48:08	R1801868-014 10X	Mn (257.610 nm)	0.0016 (ppm)	0.91	0.0016 (ppm)	449.2738
3/16/2018 20:48:08	R1801868-014 10X	Mo (202.032 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	7.0757
3/16/2018 20:48:08	R1801868-014 10X	Na (588.995 nm)	160.1989 o (ppm)	1.06	160.1989 (ppm)	5808016.2831
3/16/2018 20:48:08	R1801868-014 10X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-20.8957
3/16/2018 20:48:08	R1801868-014 10X	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.3042
3/16/2018 20:48:08	R1801868-014 10X	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.3303
3/16/2018 20:48:08	R1801868-014 10X	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.5704
3/16/2018 20:48:08	R1801868-014 10X	Sn (189.925 nm)	-0.0039 u (ppm)	42.40	-0.0039 (ppm)	-3.8460
3/16/2018 20:48:08	R1801868-014 10X	Sr (216.596 nm)	1.3494 (ppm)	0.65	1.3494 (ppm)	17806.8367
3/16/2018 20:48:08	R1801868-014 10X	Ti (336.122 nm)	0.0019 (ppm)	2.37	0.0019 (ppm)	-268.0972
3/16/2018 20:48:08	R1801868-014 10X	Tl (351.923 nm)	0.0053 (ppm)	45.69	0.0053 (ppm)	28.3504
3/16/2018 20:48:08	R1801868-014 10X	V (292.401 nm)	0.0003 (ppm)	91.90	0.0003 (ppm)	143.9804
3/16/2018 20:48:08	R1801868-014 10X	Y (360.074 nm)	0.96 (Ratio)	0.99	0.96 (Ratio)	699239.46
3/16/2018 20:48:08	R1801868-014 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.98	0.96 (Ratio)	702063.54
3/16/2018 20:48:08	R1801868-014 10X	Zn (213.857 nm)	0.0065 (ppm)	1.07	0.0065 (ppm)	154.0201
3/16/2018 20:51:27	Continuing Calibration Verification	Ag (328.068 nm)	0.4809 (ppm)	0.74	0.4809 (ppm)	29082.4431
3/16/2018 20:51:27	Continuing Calibration Verification	Al (394.401 nm)	9.5340 (ppm)	0.69	9.5340 (ppm)	97995.1147
3/16/2018 20:51:27	Continuing Calibration Verification	As (188.980 nm)	0.9733 (ppm)	1.16	0.9733 (ppm)	851.2223
3/16/2018 20:51:27	Continuing Calibration Verification	B (249.772 nm)	2.4342 (ppm)	0.70	2.4342 (ppm)	63983.7811
3/16/2018 20:51:27	Continuing Calibration Verification	Ba (230.424 nm)	10.1095 (ppm)	0.44	10.1095 (ppm)	296424.0651
3/16/2018 20:51:27	Continuing Calibration Verification	Be (313.107 nm)	0.2515 (ppm)	0.73	0.2515 (ppm)	333056.1388
3/16/2018 20:51:27	Continuing Calibration Verification	Ca (227.547 nm)	23.9897 (ppm)	0.64	23.9897 (ppm)	1089.7543
3/16/2018 20:51:27	Continuing Calibration Verification	Cd (214.439 nm)	0.5032 (ppm)	0.71	0.5032 (ppm)	10432.4382
3/16/2018 20:51:27	Continuing Calibration Verification	Co (230.786 nm)	2.5634 (ppm)	0.79	2.5634 (ppm)	23060.1109
3/16/2018 20:51:27	Continuing Calibration Verification	Cr (267.716 nm)	0.5184 (ppm)	0.58	0.5184 (ppm)	21924.7959
3/16/2018 20:51:27	Continuing Calibration Verification	Cu (327.395 nm)	1.2147 (ppm)	0.76	1.2147 (ppm)	60319.2693
3/16/2018 20:51:27	Continuing Calibration Verification	Fe (234.350 nm)	4.9947 (ppm)	0.69	4.9947 (ppm)	48576.0777
3/16/2018 20:51:27	Continuing Calibration Verification	K (766.491 nm)	24.3738 (ppm)	0.92	24.3738 (ppm)	57773.5692
3/16/2018 20:51:27	Continuing Calibration Verification	Mg (279.078 nm)	24.6590 (ppm)	0.72	24.6590 (ppm)	44968.1178
3/16/2018 20:51:27	Continuing Calibration Verification	Mn (257.610 nm)	0.7628 (ppm)	0.58	0.7628 (ppm)	207126.0575
3/16/2018 20:51:27	Continuing Calibration Verification	Mo (202.032 nm)	2.4879 (ppm)	0.58	2.4879 (ppm)	22167.6500
3/16/2018 20:51:27	Continuing Calibration Verification	Na (588.995 nm)	24.4611 (ppm)	1.01	24.4611 (ppm)	879934.6625
3/16/2018 20:51:27	Continuing Calibration Verification	Ni (230.299 nm)	2.0437 (ppm)	0.69	2.0437 (ppm)	12716.9990
3/16/2018 20:51:27	Continuing Calibration Verification	Pb (220.353 nm)	0.4983 (ppm)	0.86	0.4983 (ppm)	1003.1715
3/16/2018 20:51:27	Continuing Calibration Verification	Sb (217.582 nm)	4.8980 (ppm)	0.73	4.8980 (ppm)	6183.2782

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:51:27	Continuing Calibration Verification	Se (196.026 nm)	0.4929 (ppm)	1.36	0.4929 (ppm)	428.2165
3/16/2018 20:51:27	Continuing Calibration Verification	Sn (189.925 nm)	5.1068 (ppm)	0.76	5.1068 (ppm)	5791.7584
3/16/2018 20:51:27	Continuing Calibration Verification	Sr (216.596 nm)	2.5079 (ppm)	0.97	2.5079 (ppm)	33095.2674
3/16/2018 20:51:27	Continuing Calibration Verification	Ti (336.122 nm)	2.4558 (ppm)	0.70	2.4558 (ppm)	413677.7731
3/16/2018 20:51:27	Continuing Calibration Verification	Tl (351.923 nm)	0.9801 (ppm)	0.82	0.9801 (ppm)	2189.8682
3/16/2018 20:51:27	Continuing Calibration Verification	V (292.401 nm)	2.5007 (ppm)	0.61	2.5007 (ppm)	76356.5184
3/16/2018 20:51:27	Continuing Calibration Verification	Y (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	731436.54
3/16/2018 20:51:27	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	734562.66
3/16/2018 20:51:27	Continuing Calibration Verification	Zn (213.857 nm)	0.9652 (ppm)	0.67	0.9652 (ppm)	27506.4366
3/16/2018 20:54:46	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	50.63	0.0002 (ppm)	-92.0753
3/16/2018 20:54:46	Continuing Calibration Blank	Al (394.401 nm)	0.0040 (ppm)	9.47	0.0040 (ppm)	163.8744
3/16/2018 20:54:46	Continuing Calibration Blank	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-3.7847
3/16/2018 20:54:46	Continuing Calibration Blank	B (249.772 nm)	0.0006 (ppm)	75.65	0.0006 (ppm)	110.4427
3/16/2018 20:54:46	Continuing Calibration Blank	Ba (230.424 nm)	0.0034 (ppm)	1.51	0.0034 (ppm)	98.9481
3/16/2018 20:54:46	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	12.19	0.0001 (ppm)	-448.5794
3/16/2018 20:54:46	Continuing Calibration Blank	Ca (227.547 nm)	0.0119 u (ppm)	> 100.00	0.0119 (ppm)	4.8977
3/16/2018 20:54:46	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	19.4956
3/16/2018 20:54:46	Continuing Calibration Blank	Co (230.786 nm)	0.0008 (ppm)	35.20	0.0008 (ppm)	5.5445
3/16/2018 20:54:46	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	62.59	0.0002 (ppm)	5.4932
3/16/2018 20:54:46	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	30.16	0.0002 (ppm)	26.2861
3/16/2018 20:54:46	Continuing Calibration Blank	Fe (234.350 nm)	0.0025 (ppm)	16.02	0.0025 (ppm)	44.5474
3/16/2018 20:54:46	Continuing Calibration Blank	K (766.491 nm)	0.0243 (ppm)	30.48	0.0243 (ppm)	90.1487
3/16/2018 20:54:46	Continuing Calibration Blank	Mg (279.078 nm)	0.0093 (ppm)	1.39	0.0093 (ppm)	8.9093
3/16/2018 20:54:46	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	2.60	0.0003 (ppm)	72.1529
3/16/2018 20:54:46	Continuing Calibration Blank	Mo (202.032 nm)	0.0023 (ppm)	16.47	0.0023 (ppm)	30.8095
3/16/2018 20:54:46	Continuing Calibration Blank	Na (588.995 nm)	0.0169 (ppm)	10.36	0.0169 (ppm)	-7534.1877
3/16/2018 20:54:46	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 (ppm)	83.12	0.0005 (ppm)	-18.7220
3/16/2018 20:54:46	Continuing Calibration Blank	Pb (220.353 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	7.8197
3/16/2018 20:54:46	Continuing Calibration Blank	Sb (217.582 nm)	0.0029 (ppm)	68.60	0.0029 (ppm)	3.6488
3/16/2018 20:54:46	Continuing Calibration Blank	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.6206
3/16/2018 20:54:46	Continuing Calibration Blank	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.8209
3/16/2018 20:54:46	Continuing Calibration Blank	Sr (216.596 nm)	0.0005 (ppm)	30.79	0.0005 (ppm)	7.5610
3/16/2018 20:54:46	Continuing Calibration Blank	Ti (336.122 nm)	0.0020 (ppm)	12.97	0.0020 (ppm)	-253.9372
3/16/2018 20:54:46	Continuing Calibration Blank	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	18.2681
3/16/2018 20:54:46	Continuing Calibration Blank	V (292.401 nm)	0.0006 (ppm)	37.66	0.0006 (ppm)	152.8108
3/16/2018 20:54:46	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	1.38	1.02 (Ratio)	748020.13
3/16/2018 20:54:46	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	1.37	1.02 (Ratio)	751331.19
3/16/2018 20:54:46	Continuing Calibration Blank	Zn (213.857 nm)	0.0003 (ppm)	6.42	0.0003 (ppm)	-20.7965
3/16/2018 20:58:06	R1801868-015 5X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.3245
3/16/2018 20:58:06	R1801868-015 5X	Al (394.401 nm)	0.0916 (ppm)	1.13	0.0916 (ppm)	1063.3332
3/16/2018 20:58:06	R1801868-015 5X	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-2.5497
3/16/2018 20:58:06	R1801868-015 5X	B (249.772 nm)	-0.0002 u (ppm)	32.84	-0.0002 (ppm)	91.7261
3/16/2018 20:58:06	R1801868-015 5X	Ba (230.424 nm)	0.0580 (ppm)	0.18	0.0580 (ppm)	1698.9275
3/16/2018 20:58:06	R1801868-015 5X	Be (313.107 nm)	0.0000 (ppm)	47.09	0.0000 (ppm)	-539.6881
3/16/2018 20:58:06	R1801868-015 5X	Ca (227.547 nm)	102.8253 o (ppm)	0.37	102.8253 (ppm)	4656.6006
3/16/2018 20:58:06	R1801868-015 5X	Cd (214.439 nm)	-0.0001 u (ppm)	25.07	-0.0001 (ppm)	15.5184
3/16/2018 20:58:06	R1801868-015 5X	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.5338
3/16/2018 20:58:06	R1801868-015 5X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.8499
3/16/2018 20:58:06	R1801868-015 5X	Cu (327.395 nm)	0.0015 (ppm)	6.59	0.0015 (ppm)	89.8653
3/16/2018 20:58:06	R1801868-015 5X	Fe (234.350 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.4627
3/16/2018 20:58:06	R1801868-015 5X	K (766.491 nm)	6.1445 (ppm)	0.63	6.1445 (ppm)	14588.7175

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 20:58:06	R1801868-015 5X	Mg (279.078 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-7.1982
3/16/2018 20:58:06	R1801868-015 5X	Mn (257.610 nm)	0.0001 (ppm)	14.23	0.0001 (ppm)	15.9228
3/16/2018 20:58:06	R1801868-015 5X	Mo (202.032 nm)	0.0007 (ppm)	13.18	0.0007 (ppm)	16.2175
3/16/2018 20:58:06	R1801868-015 5X	Na (588.995 nm)	6.9719 (ppm)	0.68	6.9719 (ppm)	244973.4497
3/16/2018 20:58:06	R1801868-015 5X	Ni (230.299 nm)	0.0008 (ppm)	70.78	0.0008 (ppm)	-16.7818
3/16/2018 20:58:06	R1801868-015 5X	Pb (220.353 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	6.6448
3/16/2018 20:58:06	R1801868-015 5X	Sb (217.582 nm)	0.0031 (ppm)	97.84	0.0031 (ppm)	3.8703
3/16/2018 20:58:06	R1801868-015 5X	Se (196.026 nm)	-0.0009 u (ppm)	91.72	-0.0009 (ppm)	-1.8505
3/16/2018 20:58:06	R1801868-015 5X	Sn (189.925 nm)	-0.0033 u (ppm)	67.51	-0.0033 (ppm)	-3.0621
3/16/2018 20:58:06	R1801868-015 5X	Sr (216.596 nm)	0.6826 (ppm)	0.31	0.6826 (ppm)	9008.6108
3/16/2018 20:58:06	R1801868-015 5X	Ti (336.122 nm)	0.0009 (ppm)	15.06	0.0009 (ppm)	-442.8785
3/16/2018 20:58:06	R1801868-015 5X	Tl (351.923 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	10.9990
3/16/2018 20:58:06	R1801868-015 5X	V (292.401 nm)	0.0003 (ppm)	50.35	0.0003 (ppm)	144.8362
3/16/2018 20:58:06	R1801868-015 5X	Y (360.074 nm)	1.01 (Ratio)	0.86	1.01 (Ratio)	735282.61
3/16/2018 20:58:06	R1801868-015 5X	Y_R (360.074 nm)	1.01 (Ratio)	0.86	1.01 (Ratio)	738295.56
3/16/2018 20:58:06	R1801868-015 5X	Zn (213.857 nm)	0.0022 (ppm)	4.07	0.0022 (ppm)	32.8062
3/16/2018 21:01:24	R1801868-016 5X	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-97.3773
3/16/2018 21:01:24	R1801868-016 5X	Al (394.401 nm)	0.0320 (ppm)	1.69	0.0320 (ppm)	450.6985
3/16/2018 21:01:24	R1801868-016 5X	As (188.980 nm)	-0.0036 u (ppm)	4.48	-0.0036 (ppm)	-6.3163
3/16/2018 21:01:24	R1801868-016 5X	B (249.772 nm)	-0.0008 u (ppm)	10.82	-0.0008 (ppm)	76.0806
3/16/2018 21:01:24	R1801868-016 5X	Ba (230.424 nm)	0.0697 (ppm)	1.35	0.0697 (ppm)	2042.8021
3/16/2018 21:01:24	R1801868-016 5X	Be (313.107 nm)	0.0000 (ppm)	73.44	0.0000 (ppm)	-544.0628
3/16/2018 21:01:24	R1801868-016 5X	Ca (227.547 nm)	160.7425 u (ppm)	1.28	160.7425 (ppm)	7277.0134
3/16/2018 21:01:24	R1801868-016 5X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.7874
3/16/2018 21:01:24	R1801868-016 5X	Co (230.786 nm)	0.0005 (ppm)	36.74	0.0005 (ppm)	2.3475
3/16/2018 21:01:24	R1801868-016 5X	Cr (267.716 nm)	-0.0001 u (ppm)	20.62	-0.0001 (ppm)	-6.9992
3/16/2018 21:01:24	R1801868-016 5X	Cu (327.395 nm)	0.0010 (ppm)	9.71	0.0010 (ppm)	64.5743
3/16/2018 21:01:24	R1801868-016 5X	Fe (234.350 nm)	-0.0005 u (ppm)	27.37	-0.0005 (ppm)	15.1768
3/16/2018 21:01:24	R1801868-016 5X	K (766.491 nm)	4.6266 (ppm)	0.99	4.6266 (ppm)	10992.8119
3/16/2018 21:01:24	R1801868-016 5X	Mg (279.078 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-6.2350
3/16/2018 21:01:24	R1801868-016 5X	Mn (257.610 nm)	0.0002 (ppm)	11.32	0.0002 (ppm)	47.3076
3/16/2018 21:01:24	R1801868-016 5X	Mo (202.032 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	12.8969
3/16/2018 21:01:24	R1801868-016 5X	Na (588.995 nm)	17.0502 (ppm)	1.14	17.0502 (ppm)	610875.6832
3/16/2018 21:01:24	R1801868-016 5X	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-19.2148
3/16/2018 21:01:24	R1801868-016 5X	Pb (220.353 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	6.7148
3/16/2018 21:01:24	R1801868-016 5X	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.6497
3/16/2018 21:01:24	R1801868-016 5X	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.5512
3/16/2018 21:01:24	R1801868-016 5X	Sn (189.925 nm)	-0.0024 u (ppm)	32.77	-0.0024 (ppm)	-2.0434
3/16/2018 21:01:24	R1801868-016 5X	Sr (216.596 nm)	0.9032 (ppm)	1.21	0.9032 (ppm)	11919.6282
3/16/2018 21:01:24	R1801868-016 5X	Ti (336.122 nm)	0.0010 (ppm)	13.31	0.0010 (ppm)	-417.2919
3/16/2018 21:01:24	R1801868-016 5X	Tl (351.923 nm)	0.0032 (ppm)	23.01	0.0032 (ppm)	23.6591
3/16/2018 21:01:24	R1801868-016 5X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	133.4241
3/16/2018 21:01:24	R1801868-016 5X	Y (360.074 nm)	0.99 (Ratio)	1.12	0.99 (Ratio)	725112.28
3/16/2018 21:01:24	R1801868-016 5X	Y_R (360.074 nm)	0.99 (Ratio)	1.11	0.99 (Ratio)	727979.32
3/16/2018 21:01:24	R1801868-016 5X	Zn (213.857 nm)	0.0010 (ppm)	7.33	0.0010 (ppm)	-2.8730
3/16/2018 21:04:43	R1801868-017 5X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-106.0462
3/16/2018 21:04:43	R1801868-017 5X	Al (394.401 nm)	0.0355 (ppm)	1.74	0.0355 (ppm)	487.3757
3/16/2018 21:04:43	R1801868-017 5X	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-3.6172
3/16/2018 21:04:43	R1801868-017 5X	B (249.772 nm)	-0.0009 u (ppm)	10.94	-0.0009 (ppm)	71.8901
3/16/2018 21:04:43	R1801868-017 5X	Ba (230.424 nm)	0.0623 (ppm)	1.11	0.0623 (ppm)	1825.2202
3/16/2018 21:04:43	R1801868-017 5X	Be (313.107 nm)	0.0000 (ppm)	51.31	0.0000 (ppm)	-548.1413



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:04:43	R1801868-017 5X	Ca (227.547 nm)	146.5820 o (ppm)	0.75	146.5820 (ppm)	6636.3329
3/16/2018 21:04:43	R1801868-017 5X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.4737
3/16/2018 21:04:43	R1801868-017 5X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8449
3/16/2018 21:04:43	R1801868-017 5X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-7.1028
3/16/2018 21:04:43	R1801868-017 5X	Cu (327.395 nm)	0.0010 (ppm)	9.13	0.0010 (ppm)	66.2059
3/16/2018 21:04:43	R1801868-017 5X	Fe (234.350 nm)	0.0054 (ppm)	8.15	0.0054 (ppm)	72.6146
3/16/2018 21:04:43	R1801868-017 5X	K (766.491 nm)	4.5024 (ppm)	0.56	4.5024 (ppm)	10698.5749
3/16/2018 21:04:43	R1801868-017 5X	Mg (279.078 nm)	0.0174 (ppm)	8.98	0.0174 (ppm)	23.6059
3/16/2018 21:04:43	R1801868-017 5X	Mn (257.610 nm)	0.0004 (ppm)	8.83	0.0004 (ppm)	96.6941
3/16/2018 21:04:43	R1801868-017 5X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.7975
3/16/2018 21:04:43	R1801868-017 5X	Na (588.995 nm)	13.1767 (ppm)	0.82	13.1767 (ppm)	470243.1327
3/16/2018 21:04:43	R1801868-017 5X	Ni (230.299 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-17.8841
3/16/2018 21:04:43	R1801868-017 5X	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.1787
3/16/2018 21:04:43	R1801868-017 5X	Sb (217.582 nm)	0.0013 (ppm)	> 100.00	0.0013 (ppm)	1.6219
3/16/2018 21:04:43	R1801868-017 5X	Se (196.026 nm)	-0.0012 u (ppm)	97.79	-0.0012 (ppm)	-2.0901
3/16/2018 21:04:43	R1801868-017 5X	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.8446
3/16/2018 21:04:43	R1801868-017 5X	Sr (216.596 nm)	0.6868 (ppm)	0.56	0.6868 (ppm)	9063.0673
3/16/2018 21:04:43	R1801868-017 5X	Ti (336.122 nm)	0.0010 (ppm)	12.18	0.0010 (ppm)	-410.6193
3/16/2018 21:04:43	R1801868-017 5X	Tl (351.923 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	12.7395
3/16/2018 21:04:43	R1801868-017 5X	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	139.1051
3/16/2018 21:04:43	R1801868-017 5X	Y (360.074 nm)	0.99 (Ratio)	1.11	0.99 (Ratio)	726727.06
3/16/2018 21:04:43	R1801868-017 5X	Y_R (360.074 nm)	0.99 (Ratio)	1.12	0.99 (Ratio)	729631.83
3/16/2018 21:04:43	R1801868-017 5X	Zn (213.857 nm)	0.0007 (ppm)	16.34	0.0007 (ppm)	-10.6653
3/16/2018 21:08:02	R1801868-018 20X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.1316
3/16/2018 21:08:02	R1801868-018 20X	Al (394.401 nm)	0.0307 (ppm)	0.95	0.0307 (ppm)	437.3320
3/16/2018 21:08:02	R1801868-018 20X	As (188.980 nm)	-0.0030 u (ppm)	86.19	-0.0030 (ppm)	-5.7585
3/16/2018 21:08:02	R1801868-018 20X	B (249.772 nm)	-0.0005 u (ppm)	11.25	-0.0005 (ppm)	82.9931
3/16/2018 21:08:02	R1801868-018 20X	Ba (230.424 nm)	0.0304 (ppm)	0.77	0.0304 (ppm)	889.9547
3/16/2018 21:08:02	R1801868-018 20X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-562.9244
3/16/2018 21:08:02	R1801868-018 20X	Ca (227.547 nm)	54.4323 (ppm) †	0.66	54.4323 (ppm)	2467.1012
3/16/2018 21:08:02	R1801868-018 20X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.1548
3/16/2018 21:08:02	R1801868-018 20X	Co (230.786 nm)	-0.0006 u (ppm)	23.96	-0.0006 (ppm)	-7.8340
3/16/2018 21:08:02	R1801868-018 20X	Cr (267.716 nm)	-0.0002 u (ppm)	38.28	-0.0002 (ppm)	-9.7370
3/16/2018 21:08:02	R1801868-018 20X	Cu (327.395 nm)	0.0005 (ppm)	31.07	0.0005 (ppm)	42.0602
3/16/2018 21:08:02	R1801868-018 20X	Fe (234.350 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	16.6059
3/16/2018 21:08:02	R1801868-018 20X	K (766.491 nm)	3.3812 (ppm)	0.79	3.3812 (ppm)	8042.5000
3/16/2018 21:08:02	R1801868-018 20X	Mg (279.078 nm)	0.0177 (ppm)	11.98	0.0177 (ppm)	24.2067
3/16/2018 21:08:02	R1801868-018 20X	Mn (257.610 nm)	0.0001 (ppm)	14.08	0.0001 (ppm)	33.4760
3/16/2018 21:08:02	R1801868-018 20X	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	8.3498
3/16/2018 21:08:02	R1801868-018 20X	Na (588.995 nm)	67.4059 o (ppm) ‡	0.78	67.4059 (ppm)	2439083.3177
3/16/2018 21:08:02	R1801868-018 20X	Ni (230.299 nm)	0.0005 (ppm)	65.76	0.0005 (ppm)	-18.8940
3/16/2018 21:08:02	R1801868-018 20X	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.9989
3/16/2018 21:08:02	R1801868-018 20X	Sb (217.582 nm)	-0.0008 u (ppm)	56.98	-0.0008 (ppm)	-0.9717
3/16/2018 21:08:02	R1801868-018 20X	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.0436
3/16/2018 21:08:02	R1801868-018 20X	Sn (189.925 nm)	-0.0007 u (ppm)	69.46	-0.0007 (ppm)	-0.1674
3/16/2018 21:08:02	R1801868-018 20X	Sr (216.596 nm)	0.3684 (ppm)	0.59	0.3684 (ppm)	4862.2970
3/16/2018 21:08:02	R1801868-018 20X	Ti (336.122 nm)	0.0001 (ppm)	82.18	0.0001 (ppm)	-568.7140
3/16/2018 21:08:02	R1801868-018 20X	Tl (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	14.3619
3/16/2018 21:08:02	R1801868-018 20X	V (292.401 nm)	0.0003 (ppm)	29.63	0.0003 (ppm)	143.8972
3/16/2018 21:08:02	R1801868-018 20X	Y (360.074 nm)	1.00 (Ratio)	1.00	1.00 (Ratio)	728679.15
3/16/2018 21:08:02	R1801868-018 20X	Y_R (360.074 nm)	1.00 (Ratio)	1.00	1.00 (Ratio)	731561.64

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:08:02	R1801868-018 20X	Zn (213.857 nm)	0.0006 (ppm)	13.75	0.0006 (ppm)	-13.3928
3/16/2018 21:11:22	R1801868-019 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-104.2896
3/16/2018 21:11:22	R1801868-019 10X	Al (394.401 nm)	0.0279 (ppm)	0.76	0.0279 (ppm)	408.8923
3/16/2018 21:11:22	R1801868-019 10X	As (188.980 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-4.5761
3/16/2018 21:11:22	R1801868-019 10X	B (249.772 nm)	0.0005 (ppm)	42.06	0.0005 (ppm)	109.6321
3/16/2018 21:11:22	R1801868-019 10X	Ba (230.424 nm)	0.0430 (ppm)	0.45	0.0430 (ppm)	1260.9498
3/16/2018 21:11:22	R1801868-019 10X	Be (313.107 nm)	0.0000 (ppm)	48.97	0.0000 (ppm)	-551.0051
3/16/2018 21:11:22	R1801868-019 10X	Ca (227.547 nm)	73.3810 o (ppm)	0.83	73.3810 (ppm)	3324.4166
3/16/2018 21:11:22	R1801868-019 10X	Cd (214.439 nm)	-0.0002 u (ppm)	55.80	-0.0002 (ppm)	14.0753
3/16/2018 21:11:22	R1801868-019 10X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.1426
3/16/2018 21:11:22	R1801868-019 10X	Cr (267.716 nm)	-0.0002 u (ppm)	50.04	-0.0002 (ppm)	-11.0407
3/16/2018 21:11:22	R1801868-019 10X	Cu (327.395 nm)	0.0008 (ppm)	7.16	0.0008 (ppm)	57.0225
3/16/2018 21:11:22	R1801868-019 10X	Fe (234.350 nm)	0.0005 (ppm)	16.32	0.0005 (ppm)	24.2754
3/16/2018 21:11:22	R1801868-019 10X	K (766.491 nm)	5.0232 (ppm)	0.89	5.0232 (ppm)	11932.3140
3/16/2018 21:11:22	R1801868-019 10X	Mg (279.078 nm)	0.0038 (ppm)	38.99	0.0038 (ppm)	-1.1700
3/16/2018 21:11:22	R1801868-019 10X	Mn (257.610 nm)	0.0001 (ppm)	11.62	0.0001 (ppm)	39.1630
3/16/2018 21:11:22	R1801868-019 10X	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	12.0034
3/16/2018 21:11:22	R1801868-019 10X	Na (588.995 nm)	72.6661 o (ppm)	0.84	72.6661 (ppm)	2630058.0910
3/16/2018 21:11:22	R1801868-019 10X	Ni (230.299 nm)	0.0019 (ppm)	43.14	0.0019 (ppm)	-9.6576
3/16/2018 21:11:22	R1801868-019 10X	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.3557
3/16/2018 21:11:22	R1801868-019 10X	Sb (217.582 nm)	0.0022 (ppm)	> 100.00	0.0022 (ppm)	2.7824
3/16/2018 21:11:22	R1801868-019 10X	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.0247
3/16/2018 21:11:22	R1801868-019 10X	Sn (189.925 nm)	-0.0027 u (ppm)	50.34	-0.0027 (ppm)	-2.4749
3/16/2018 21:11:22	R1801868-019 10X	Sr (216.596 nm)	0.5412 (ppm)	0.69	0.5412 (ppm)	7142.4382
3/16/2018 21:11:22	R1801868-019 10X	Ti (336.122 nm)	0.0003 (ppm)	30.63	0.0003 (ppm)	-540.3689
3/16/2018 21:11:22	R1801868-019 10X	Tl (351.923 nm)	-0.0037 u (ppm)	> 100.00	-0.0037 (ppm)	8.2992
3/16/2018 21:11:22	R1801868-019 10X	V (292.401 nm)	0.0003 (ppm)	27.99	0.0003 (ppm)	145.9379
3/16/2018 21:11:22	R1801868-019 10X	Y (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	726686.06
3/16/2018 21:11:22	R1801868-019 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	729586.13
3/16/2018 21:11:22	R1801868-019 10X	Zn (213.857 nm)	0.0009 (ppm)	6.09	0.0009 (ppm)	-3.5638
3/16/2018 21:14:41	R1801868-020 5X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-99.9756
3/16/2018 21:14:41	R1801868-020 5X	Al (394.401 nm)	0.0516 (ppm)	2.33	0.0516 (ppm)	651.9249
3/16/2018 21:14:41	R1801868-020 5X	As (188.980 nm)	-0.0023 u (ppm)	93.26	-0.0023 (ppm)	-5.1573
3/16/2018 21:14:41	R1801868-020 5X	B (249.772 nm)	-0.0001 u (ppm)	94.75	-0.0001 (ppm)	93.5990
3/16/2018 21:14:41	R1801868-020 5X	Ba (230.424 nm)	0.0330 (ppm)	0.56	0.0330 (ppm)	967.2599
3/16/2018 21:14:41	R1801868-020 5X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-552.4333
3/16/2018 21:14:41	R1801868-020 5X	Ca (227.547 nm)	106.1578 o (ppm)	0.58	106.1578 (ppm)	4807.3743
3/16/2018 21:14:41	R1801868-020 5X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.8075
3/16/2018 21:14:41	R1801868-020 5X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.7074
3/16/2018 21:14:41	R1801868-020 5X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.0391
3/16/2018 21:14:41	R1801868-020 5X	Cu (327.395 nm)	0.0009 (ppm)	10.45	0.0009 (ppm)	60.2449
3/16/2018 21:14:41	R1801868-020 5X	Fe (234.350 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.4550
3/16/2018 21:14:41	R1801868-020 5X	K (766.491 nm)	4.5084 (ppm)	0.50	4.5084 (ppm)	10712.9116
3/16/2018 21:14:41	R1801868-020 5X	Mg (279.078 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-7.1013
3/16/2018 21:14:41	R1801868-020 5X	Mn (257.610 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	3.3916
3/16/2018 21:14:41	R1801868-020 5X	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	11.7055
3/16/2018 21:14:41	R1801868-020 5X	Na (588.995 nm)	17.5600 (ppm)	0.55	17.5600 (ppm)	629383.8912
3/16/2018 21:14:41	R1801868-020 5X	Ni (230.299 nm)	0.0008 (ppm)	79.54	0.0008 (ppm)	-16.8020
3/16/2018 21:14:41	R1801868-020 5X	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.9557
3/16/2018 21:14:41	R1801868-020 5X	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	1.0548
3/16/2018 21:14:41	R1801868-020 5X	Se (196.026 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	-3.1381

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:14:41	R1801868-020 5X	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-0.3612
3/16/2018 21:14:41	R1801868-020 5X	Sr (216.596 nm)	0.5876 (ppm)	0.63	0.5876 (ppm)	7754.4433
3/16/2018 21:14:41	R1801868-020 5X	Ti (336.122 nm)	0.0005 (ppm)	5.56	0.0005 (ppm)	-495.6695
3/16/2018 21:14:41	R1801868-020 5X	Ti (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	18.9394
3/16/2018 21:14:41	R1801868-020 5X	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	139.4161
3/16/2018 21:14:41	R1801868-020 5X	Y (360.074 nm)	1.00 (Ratio)	0.81	1.00 (Ratio)	734253.80
3/16/2018 21:14:41	R1801868-020 5X	Y_R (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	737181.41
3/16/2018 21:14:41	R1801868-020 5X	Zn (213.857 nm)	0.0008 (ppm)	0.95	0.0008 (ppm)	-7.2238
3/16/2018 21:18:01	R1801868-014 100X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-98.8287
3/16/2018 21:18:01	R1801868-014 100X	Al (394.401 nm)	0.0140 (ppm)	6.22	0.0140 (ppm)	266.5789
3/16/2018 21:18:01	R1801868-014 100X	As (188.980 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	-5.2336
3/16/2018 21:18:01	R1801868-014 100X	B (249.772 nm)	-0.0013 u (ppm)	13.56	-0.0013 (ppm)	62.8417
3/16/2018 21:18:01	R1801868-014 100X	Ba (230.424 nm)	0.0135 (ppm)	1.93	0.0135 (ppm)	395.0234
3/16/2018 21:18:01	R1801868-014 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-546.2950
3/16/2018 21:18:01	R1801868-014 100X	Ca (227.547 nm)	31.0248 (ppm)	0.87	31.0248 (ppm)	1408.0511
3/16/2018 21:18:01	R1801868-014 100X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.5302
3/16/2018 21:18:01	R1801868-014 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.1373
3/16/2018 21:18:01	R1801868-014 100X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.6993
3/16/2018 21:18:01	R1801868-014 100X	Cu (327.395 nm)	-0.0001 u (ppm)	22.28	-0.0001 (ppm)	10.0848
3/16/2018 21:18:01	R1801868-014 100X	Fe (234.350 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	18.3805
3/16/2018 21:18:01	R1801868-014 100X	K (766.491 nm)	0.8651 (ppm)	1.39	0.8651 (ppm)	2082.0049
3/16/2018 21:18:01	R1801868-014 100X	Mg (279.078 nm)	0.1022 (ppm)	1.68	0.1022 (ppm)	178.3228
3/16/2018 21:18:01	R1801868-014 100X	Mn (257.610 nm)	0.0002 (ppm)	3.98	0.0002 (ppm)	45.8592
3/16/2018 21:18:01	R1801868-014 100X	Mo (202.032 nm)	-0.0004 u (ppm)	74.03	-0.0004 (ppm)	6.6656
3/16/2018 21:18:01	R1801868-014 100X	Na (588.995 nm)	16.6805 (ppm)	0.73	16.6805 (ppm)	597451.3796
3/16/2018 21:18:01	R1801868-014 100X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.3296
3/16/2018 21:18:01	R1801868-014 100X	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.2337
3/16/2018 21:18:01	R1801868-014 100X	Sb (217.582 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	1.6923
3/16/2018 21:18:01	R1801868-014 100X	Se (196.026 nm)	-0.0025 u (ppm)	59.48	-0.0025 (ppm)	-3.2592
3/16/2018 21:18:01	R1801868-014 100X	Sn (189.925 nm)	-0.0018 u (ppm)	25.02	-0.0018 (ppm)	-1.3924
3/16/2018 21:18:01	R1801868-014 100X	Sr (216.596 nm)	0.1420 (ppm)	0.22	0.1420 (ppm)	1874.2689
3/16/2018 21:18:01	R1801868-014 100X	Ti (336.122 nm)	-0.0001 u (ppm)	11.76	-0.0001 (ppm)	-609.6759
3/16/2018 21:18:01	R1801868-014 100X	Ti (351.923 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	18.8118
3/16/2018 21:18:01	R1801868-014 100X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	131.9746
3/16/2018 21:18:01	R1801868-014 100X	Y (360.074 nm)	1.02 (Ratio)	0.72	1.02 (Ratio)	743055.61
3/16/2018 21:18:01	R1801868-014 100X	Y_R (360.074 nm)	1.02 (Ratio)	0.71	1.02 (Ratio)	746024.08
3/16/2018 21:18:01	R1801868-014 100X	Zn (213.857 nm)	0.0022 (ppm)	1.86	0.0022 (ppm)	32.9872
3/16/2018 21:21:19	Continuing Calibration Verification	Ag (328.068 nm)	0.4761 (ppm)	0.67	0.4761 (ppm)	28792.4589
3/16/2018 21:21:19	Continuing Calibration Verification	Al (394.401 nm)	9.4541 (ppm)	0.77	9.4541 (ppm)	97175.2582
3/16/2018 21:21:19	Continuing Calibration Verification	As (188.980 nm)	0.9618 (ppm)	0.82	0.9618 (ppm)	841.2073
3/16/2018 21:21:19	Continuing Calibration Verification	B (249.772 nm)	2.4087 (ppm)	0.70	2.4087 (ppm)	63314.2865
3/16/2018 21:21:19	Continuing Calibration Verification	Ba (230.424 nm)	10.0367 (ppm)	0.79	10.0367 (ppm)	294290.8398
3/16/2018 21:21:19	Continuing Calibration Verification	Be (313.107 nm)	0.2492 (ppm)	0.52	0.2492 (ppm)	330010.3793
3/16/2018 21:21:19	Continuing Calibration Verification	Ca (227.547 nm)	23.7632 (ppm)	0.69	23.7632 (ppm)	1079.5072
3/16/2018 21:21:19	Continuing Calibration Verification	Cd (214.439 nm)	0.4990 (ppm)	0.47	0.4990 (ppm)	10345.2836
3/16/2018 21:21:19	Continuing Calibration Verification	Co (230.786 nm)	2.5423 (ppm)	0.60	2.5423 (ppm)	22870.6862
3/16/2018 21:21:19	Continuing Calibration Verification	Cr (267.716 nm)	0.5155 (ppm)	0.73	0.5155 (ppm)	21804.7862
3/16/2018 21:21:19	Continuing Calibration Verification	Cu (327.395 nm)	1.2027 (ppm)	0.50	1.2027 (ppm)	59724.4032
3/16/2018 21:21:19	Continuing Calibration Verification	Fe (234.350 nm)	4.9615 (ppm)	0.60	4.9615 (ppm)	48254.0385
3/16/2018 21:21:19	Continuing Calibration Verification	K (766.491 nm)	24.2070 (ppm)	0.27	24.2070 (ppm)	57378.5574
3/16/2018 21:21:19	Continuing Calibration Verification	Mg (279.078 nm)	24.4677 (ppm)	0.54	24.4677 (ppm)	44619.1257

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:21:19	Continuing Calibration Verification	Mn (257.610 nm)	0.7563 (ppm)	0.79	0.7563 (ppm)	205381.0659
3/16/2018 21:21:19	Continuing Calibration Verification	Mo (202.032 nm)	2.4690 (ppm)	0.70	2.4690 (ppm)	21999.2484
3/16/2018 21:21:19	Continuing Calibration Verification	Na (588.995 nm)	24.2457 (ppm)	0.39	24.2457 (ppm)	872112.8512
3/16/2018 21:21:19	Continuing Calibration Verification	Ni (230.299 nm)	2.0294 (ppm)	0.50	2.0294 (ppm)	12627.9196
3/16/2018 21:21:19	Continuing Calibration Verification	Pb (220.353 nm)	0.4948 (ppm)	1.15	0.4948 (ppm)	996.0739
3/16/2018 21:21:19	Continuing Calibration Verification	Sb (217.582 nm)	4.8780 (ppm)	0.37	4.8780 (ppm)	6157.9800
3/16/2018 21:21:19	Continuing Calibration Verification	Se (196.026 nm)	0.4869 (ppm)	0.93	0.4869 (ppm)	423.0371
3/16/2018 21:21:19	Continuing Calibration Verification	Sn (189.925 nm)	5.0800 (ppm)	0.48	5.0800 (ppm)	5761.4030
3/16/2018 21:21:19	Continuing Calibration Verification	Sr (216.596 nm)	2.4876 (ppm)	1.10	2.4876 (ppm)	32826.3098
3/16/2018 21:21:19	Continuing Calibration Verification	Ti (336.122 nm)	2.4357 (ppm)	0.55	2.4357 (ppm)	410279.2128
3/16/2018 21:21:19	Continuing Calibration Verification	Tl (351.923 nm)	0.9751 (ppm)	0.68	0.9751 (ppm)	2178.7488
3/16/2018 21:21:19	Continuing Calibration Verification	V (292.401 nm)	2.4793 (ppm)	0.80	2.4793 (ppm)	75703.8754
3/16/2018 21:21:19	Continuing Calibration Verification	Y (360.074 nm)	1.01 (Ratio)	0.16	1.01 (Ratio)	736371.82
3/16/2018 21:21:19	Continuing Calibration Verification	Y_R (360.074 nm)	1.01 (Ratio)	0.17	1.01 (Ratio)	739163.10
3/16/2018 21:21:19	Continuing Calibration Verification	Zn (213.857 nm)	0.9586 (ppm)	0.49	0.9586 (ppm)	27320.4635
3/16/2018 21:24:39	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	77.08	0.0002 (ppm)	-88.4200
3/16/2018 21:24:39	Continuing Calibration Blank	Al (394.401 nm)	0.0034 (ppm)	3.96	0.0034 (ppm)	157.3149
3/16/2018 21:24:39	Continuing Calibration Blank	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-3.5284
3/16/2018 21:24:39	Continuing Calibration Blank	B (249.772 nm)	0.0005 (ppm)	36.47	0.0005 (ppm)	108.8784
3/16/2018 21:24:39	Continuing Calibration Blank	Ba (230.424 nm)	0.0036 (ppm)	1.73	0.0036 (ppm)	105.8055
3/16/2018 21:24:39	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	5.95	0.0001 (ppm)	-437.2966
3/16/2018 21:24:39	Continuing Calibration Blank	Ca (227.547 nm)	0.0768 (ppm)	82.83	0.0768 (ppm)	7.8365
3/16/2018 21:24:39	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	98.46	0.0002 (ppm)	20.8474
3/16/2018 21:24:39	Continuing Calibration Blank	Co (230.786 nm)	0.0009 (ppm)	18.77	0.0009 (ppm)	6.2244
3/16/2018 21:24:39	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	93.86	0.0002 (ppm)	5.5387
3/16/2018 21:24:39	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	21.6191
3/16/2018 21:24:39	Continuing Calibration Blank	Fe (234.350 nm)	0.0025 (ppm)	3.12	0.0025 (ppm)	44.4654
3/16/2018 21:24:39	Continuing Calibration Blank	K (766.491 nm)	0.0249 (ppm)	18.16	0.0249 (ppm)	91.5038
3/16/2018 21:24:39	Continuing Calibration Blank	Mg (279.078 nm)	0.0078 (ppm)	25.66	0.0078 (ppm)	6.1259
3/16/2018 21:24:39	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	2.38	0.0003 (ppm)	76.4438
3/16/2018 21:24:39	Continuing Calibration Blank	Mo (202.032 nm)	0.0026 (ppm)	7.86	0.0026 (ppm)	33.6487
3/16/2018 21:24:39	Continuing Calibration Blank	Na (588.995 nm)	0.0166 (ppm)	16.39	0.0166 (ppm)	-7545.4047
3/16/2018 21:24:39	Continuing Calibration Blank	Ni (230.299 nm)	0.0011 (ppm)	27.50	0.0011 (ppm)	-14.8408
3/16/2018 21:24:39	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.7194
3/16/2018 21:24:39	Continuing Calibration Blank	Sb (217.582 nm)	0.0045 (ppm)	4.78	0.0045 (ppm)	5.7032
3/16/2018 21:24:39	Continuing Calibration Blank	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.7503
3/16/2018 21:24:39	Continuing Calibration Blank	Sn (189.925 nm)	0.0019 (ppm)	79.41	0.0019 (ppm)	2.7660
3/16/2018 21:24:39	Continuing Calibration Blank	Sr (216.596 nm)	0.0004 (ppm)	3.95	0.0004 (ppm)	6.2827
3/16/2018 21:24:39	Continuing Calibration Blank	Ti (336.122 nm)	0.0020 (ppm)	5.89	0.0020 (ppm)	-248.1387
3/16/2018 21:24:39	Continuing Calibration Blank	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	12.9892
3/16/2018 21:24:39	Continuing Calibration Blank	V (292.401 nm)	0.0005 (ppm)	14.24	0.0005 (ppm)	152.0199
3/16/2018 21:24:39	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	1.41	1.03 (Ratio)	749927.51
3/16/2018 21:24:39	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	1.41	1.03 (Ratio)	753056.01
3/16/2018 21:24:39	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	26.78	0.0004 (ppm)	-18.7132
3/16/2018 21:27:58	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	0.20	0.0098 (ppm)	494.8071
3/16/2018 21:27:58	Contract Required Detection Limit	Al (394.401 nm)	0.1726 (ppm)	0.07	0.1726 (ppm)	1894.5620
3/16/2018 21:27:58	Contract Required Detection Limit	As (188.980 nm)	0.0181 (ppm)	15.57	0.0181 (ppm)	12.7830
3/16/2018 21:27:58	Contract Required Detection Limit	B (249.772 nm)	0.1962 (ppm)	0.34	0.1962 (ppm)	5246.0491
3/16/2018 21:27:58	Contract Required Detection Limit	Ba (230.424 nm)	0.2057 (ppm)	0.32	0.2057 (ppm)	6029.5985
3/16/2018 21:27:58	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.29	0.0049 (ppm)	5997.0234
3/16/2018 21:27:58	Contract Required Detection Limit	Ca (227.547 nm)	0.9800 (ppm)	0.75	0.9800 (ppm)	48.7008

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:27:58	Contract Required Detection Limit	Cd (214.439 nm)	0.0101 (ppm)	0.59	0.0101 (ppm)	225.6380
3/16/2018 21:27:58	Contract Required Detection Limit	Co (230.786 nm)	0.0502 (ppm)	1.58	0.0502 (ppm)	449.5538
3/16/2018 21:27:58	Contract Required Detection Limit	Cr (267.716 nm)	0.0103 (ppm)	0.26	0.0103 (ppm)	432.5770
3/16/2018 21:27:58	Contract Required Detection Limit	Cu (327.395 nm)	0.0238 (ppm)	0.57	0.0238 (ppm)	1196.6965
3/16/2018 21:27:58	Contract Required Detection Limit	Fe (234.350 nm)	0.1039 (ppm)	0.61	0.1039 (ppm)	1030.2494
3/16/2018 21:27:58	Contract Required Detection Limit	K (766.491 nm)	0.9306 (ppm)	0.81	0.9306 (ppm)	2237.1926
3/16/2018 21:27:58	Contract Required Detection Limit	Mg (279.078 nm)	0.9919 (ppm)	0.55	0.9919 (ppm)	1801.0417
3/16/2018 21:27:58	Contract Required Detection Limit	Mn (257.610 nm)	0.0153 (ppm)	0.29	0.0153 (ppm)	4164.8918
3/16/2018 21:27:58	Contract Required Detection Limit	Mo (202.032 nm)	0.0247 (ppm)	0.93	0.0247 (ppm)	230.4302
3/16/2018 21:27:58	Contract Required Detection Limit	Na (588.995 nm)	1.0142 (ppm)	0.69	1.0142 (ppm)	28674.5657
3/16/2018 21:27:58	Contract Required Detection Limit	Ni (230.299 nm)	0.0417 (ppm)	2.85	0.0417 (ppm)	237.9287
3/16/2018 21:27:58	Contract Required Detection Limit	Pb (220.353 nm)	0.0088 (ppm)	12.91	0.0088 (ppm)	23.7647
3/16/2018 21:27:58	Contract Required Detection Limit	Sb (217.582 nm)	0.0599 (ppm)	3.23	0.0599 (ppm)	75.6459
3/16/2018 21:27:58	Contract Required Detection Limit	Se (196.026 nm)	0.0129 R (ppm)	21.15	0.0129 (ppm)	10.1503 R
3/16/2018 21:27:58	Contract Required Detection Limit	Sn (189.925 nm)	0.5053 (ppm)	0.74	0.5053 (ppm)	573.6119
3/16/2018 21:27:58	Contract Required Detection Limit	Sr (216.596 nm)	0.1008 (ppm)	0.28	0.1008 (ppm)	1330.6655
3/16/2018 21:27:58	Contract Required Detection Limit	Ti (336.122 nm)	0.0503 (ppm)	0.25	0.0503 (ppm)	7896.7376
3/16/2018 21:27:58	Contract Required Detection Limit	Tl (351.923 nm)	0.0184 (ppm)	17.05	0.0184 (ppm)	57.3160
3/16/2018 21:27:58	Contract Required Detection Limit	V (292.401 nm)	0.0481 (ppm)	0.46	0.0481 (ppm)	1601.3978
3/16/2018 21:27:58	Contract Required Detection Limit	Y (360.074 nm)	1.04 (Ratio)	0.63	1.04 (Ratio)	760257.33
3/16/2018 21:27:58	Contract Required Detection Limit	Y_R (360.074 nm)	1.04 (Ratio)	0.64	1.04 (Ratio)	763310.72
3/16/2018 21:27:58	Contract Required Detection Limit	Zn (213.857 nm)	0.0197 (ppm)	0.69	0.0197 (ppm)	532.6669
3/16/2018 21:31:17	Interference Check Solution A	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.6741
3/16/2018 21:31:17	Interference Check Solution A	Al (394.401 nm)	266.3176 o (ppm)	0.22	266.3176 (ppm)	2734036.8171
3/16/2018 21:31:17	Interference Check Solution A	As (188.980 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-1.4943
3/16/2018 21:31:17	Interference Check Solution A	B (249.772 nm)	0.0399 (ppm)	1.00	0.0399 (ppm)	1143.4341
3/16/2018 21:31:17	Interference Check Solution A	Ba (230.424 nm)	0.0008 (ppm)	7.21	0.0008 (ppm)	21.9216
3/16/2018 21:31:17	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	67.43	0.0000 (ppm)	-586.2974
3/16/2018 21:31:17	Interference Check Solution A	Ca (227.547 nm)	268.1650 o (ppm)	0.30	268.1650 (ppm)	12137.2482
3/16/2018 21:31:17	Interference Check Solution A	Cd (214.439 nm)	-0.0013 Ku (ppm)	12.50	-0.0013 (ppm)	-9.6938 K
3/16/2018 21:31:17	Interference Check Solution A	Co (230.786 nm)	-0.0022 u (ppm)	19.22	-0.0022 (ppm)	-21.5835
3/16/2018 21:31:17	Interference Check Solution A	Cr (267.716 nm)	0.0003 (ppm)	36.95	0.0003 (ppm)	11.2633
3/16/2018 21:31:17	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	16.97	0.0006 (ppm)	45.1394
3/16/2018 21:31:17	Interference Check Solution A	Fe (234.350 nm)	94.0305 o (ppm)	0.29	94.0305 (ppm)	914149.8583
3/16/2018 21:31:17	Interference Check Solution A	K (766.491 nm)	0.0206 (ppm)	84.46	0.0206 (ppm)	81.2145
3/16/2018 21:31:17	Interference Check Solution A	Mg (279.078 nm)	266.8252 o (ppm)	0.25	266.8252 (ppm)	486661.7232
3/16/2018 21:31:17	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.80	0.0016 (ppm)	447.9630
3/16/2018 21:31:17	Interference Check Solution A	Mo (202.032 nm)	-0.0002 u (ppm)	90.86	-0.0002 (ppm)	8.9335
3/16/2018 21:31:17	Interference Check Solution A	Na (588.995 nm)	-0.0150 u (ppm)	6.71	-0.0150 (ppm)	-8691.1373
3/16/2018 21:31:17	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	7.47	-0.0024 (ppm)	-36.5646
3/16/2018 21:31:17	Interference Check Solution A	Pb (220.353 nm)	-0.0041 u (ppm)	64.20	-0.0041 (ppm)	-2.1664
3/16/2018 21:31:17	Interference Check Solution A	Sb (217.582 nm)	0.0044 u (ppm)	> 100.00	0.0044 (ppm)	5.5029
3/16/2018 21:31:17	Interference Check Solution A	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-0.5801
3/16/2018 21:31:17	Interference Check Solution A	Sn (189.925 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.8543
3/16/2018 21:31:17	Interference Check Solution A	Sr (216.596 nm)	0.0184 (ppm)	0.53	0.0184 (ppm)	242.8379
3/16/2018 21:31:17	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	8.09	0.0020 (ppm)	-256.8998
3/16/2018 21:31:17	Interference Check Solution A	Tl (351.923 nm)	0.0017 (ppm)	33.19	0.0017 (ppm)	20.3509
3/16/2018 21:31:17	Interference Check Solution A	V (292.401 nm)	0.0037 K (ppm)	5.33	0.0037 (ppm)	247.0702 K
3/16/2018 21:31:17	Interference Check Solution A	Y (360.074 nm)	0.93 (Ratio)	0.72	0.93 (Ratio)	682538.17
3/16/2018 21:31:17	Interference Check Solution A	Y_R (360.074 nm)	0.93 (Ratio)	0.72	0.93 (Ratio)	684870.16
3/16/2018 21:31:17	Interference Check Solution A	Zn (213.857 nm)	0.0102 K (ppm)	0.70	0.0102 (ppm)	261.7720 K

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:34:37	Interference Check Solution AB	Ag (328.068 nm)	0.2155 (ppm)	0.26	0.2155 (ppm)	12977.2285
3/16/2018 21:34:37	Interference Check Solution AB	Al (394.401 nm)	266.2515 o (ppm)	0.13	266.2515 (ppm)	2733357.5379
3/16/2018 21:34:37	Interference Check Solution AB	As (188.980 nm)	0.1019 (ppm)	1.08	0.1019 (ppm)	86.3281
3/16/2018 21:34:37	Interference Check Solution AB	B (249.772 nm)	0.0411 (ppm)	0.79	0.0411 (ppm)	1173.3604
3/16/2018 21:34:37	Interference Check Solution AB	Ba (230.424 nm)	0.5252 (ppm)	0.26	0.5252 (ppm)	15399.4008
3/16/2018 21:34:37	Interference Check Solution AB	Be (313.107 nm)	0.5082 (ppm)	0.24	0.5082 (ppm)	673558.4858
3/16/2018 21:34:37	Interference Check Solution AB	Ca (227.547 nm)	267.8984 o (ppm)	0.34	267.8984 (ppm)	12125.1832
3/16/2018 21:34:37	Interference Check Solution AB	Cd (214.439 nm)	0.9850 (ppm)	0.28	0.9850 (ppm)	20404.3735
3/16/2018 21:34:37	Interference Check Solution AB	Co (230.786 nm)	0.4992 (ppm)	0.53	0.4992 (ppm)	4488.7951
3/16/2018 21:34:37	Interference Check Solution AB	Cr (267.716 nm)	0.5132 (ppm)	0.26	0.5132 (ppm)	21707.0225
3/16/2018 21:34:37	Interference Check Solution AB	Cu (327.395 nm)	0.5403 (ppm)	0.39	0.5403 (ppm)	26838.7616
3/16/2018 21:34:37	Interference Check Solution AB	Fe (234.350 nm)	94.0595 o (ppm)	0.40	94.0595 (ppm)	914432.3939
3/16/2018 21:34:37	Interference Check Solution AB	K (766.491 nm)	-0.0086 u (ppm)	> 100.00	-0.0086 (ppm)	12.0667
3/16/2018 21:34:37	Interference Check Solution AB	Mg (279.078 nm)	267.0277 o (ppm)	0.24	267.0277 (ppm)	487030.9990
3/16/2018 21:34:37	Interference Check Solution AB	Mn (257.610 nm)	0.5073 (ppm)	0.20	0.5073 (ppm)	137746.8269
3/16/2018 21:34:37	Interference Check Solution AB	Mo (202.032 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	6.8913
3/16/2018 21:34:37	Interference Check Solution AB	Na (588.995 nm)	-0.0122 u (ppm)	7.78	-0.0122 (ppm)	-8591.1441
3/16/2018 21:34:37	Interference Check Solution AB	Ni (230.299 nm)	0.9769 (ppm)	0.25	0.9769 (ppm)	6067.6228
3/16/2018 21:34:37	Interference Check Solution AB	Pb (220.353 nm)	0.0507 (ppm)	5.82	0.0507 (ppm)	107.5136
3/16/2018 21:34:37	Interference Check Solution AB	Sb (217.582 nm)	0.6152 (ppm)	1.04	0.6152 (ppm)	776.6868
3/16/2018 21:34:37	Interference Check Solution AB	Se (196.026 nm)	0.0523 (ppm)	8.70	0.0523 (ppm)	44.5446
3/16/2018 21:34:37	Interference Check Solution AB	Sn (189.925 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.5433
3/16/2018 21:34:37	Interference Check Solution AB	Sr (216.596 nm)	0.0193 (ppm)	1.69	0.0193 (ppm)	254.7882
3/16/2018 21:34:37	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	5.19	0.0017 (ppm)	-297.0481
3/16/2018 21:34:37	Interference Check Solution AB	Tl (351.923 nm)	0.1169 (ppm)	3.23	0.1169 (ppm)	275.8343
3/16/2018 21:34:37	Interference Check Solution AB	V (292.401 nm)	0.5093 (ppm)	0.17	0.5093 (ppm)	15659.8138
3/16/2018 21:34:37	Interference Check Solution AB	Y (360.074 nm)	0.93 (Ratio)	0.68	0.93 (Ratio)	682961.30
3/16/2018 21:34:37	Interference Check Solution AB	Y_R (360.074 nm)	0.93 (Ratio)	0.68	0.93 (Ratio)	685235.10
3/16/2018 21:34:37	Interference Check Solution AB	Zn (213.857 nm)	0.9943 (ppm)	0.27	0.9943 (ppm)	28338.8944
3/16/2018 21:37:55	Continuing Calibration Verification1	Ag (328.068 nm)	0.4761 (ppm)	0.51	0.4761 (ppm)	28794.5417
3/16/2018 21:37:55	Continuing Calibration Verification1	Al (394.401 nm)	9.4709 (ppm)	0.47	9.4709 (ppm)	97346.8957
3/16/2018 21:37:55	Continuing Calibration Verification1	As (188.980 nm)	0.9511 (ppm)	1.15	0.9511 (ppm)	831.7822
3/16/2018 21:37:55	Continuing Calibration Verification1	B (249.772 nm)	2.4085 (ppm)	0.54	2.4085 (ppm)	63307.6870
3/16/2018 21:37:55	Continuing Calibration Verification1	Ba (230.424 nm)	10.0262 (ppm)	0.43	10.0262 (ppm)	293981.0610
3/16/2018 21:37:55	Continuing Calibration Verification1	Be (313.107 nm)	0.2489 (ppm)	0.34	0.2489 (ppm)	329613.4818
3/16/2018 21:37:55	Continuing Calibration Verification1	Ca (227.547 nm)	23.7561 (ppm)	0.30	23.7561 (ppm)	1079.1863
3/16/2018 21:37:55	Continuing Calibration Verification1	Cd (214.439 nm)	0.4983 (ppm)	0.29	0.4983 (ppm)	10332.0565
3/16/2018 21:37:55	Continuing Calibration Verification1	Co (230.786 nm)	2.5389 (ppm)	0.44	2.5389 (ppm)	22839.3523
3/16/2018 21:37:55	Continuing Calibration Verification1	Cr (267.716 nm)	0.5146 (ppm)	0.51	0.5146 (ppm)	21764.2280
3/16/2018 21:37:55	Continuing Calibration Verification1	Cu (327.395 nm)	1.1998 (ppm)	0.58	1.1998 (ppm)	59580.4491
3/16/2018 21:37:55	Continuing Calibration Verification1	Fe (234.350 nm)	4.9736 (ppm)	0.42	4.9736 (ppm)	48371.4038
3/16/2018 21:37:55	Continuing Calibration Verification1	K (766.491 nm)	24.2491 (ppm)	0.19	24.2491 (ppm)	57478.1318
3/16/2018 21:37:55	Continuing Calibration Verification1	Mg (279.078 nm)	24.4834 (ppm)	0.35	24.4834 (ppm)	44647.8975
3/16/2018 21:37:55	Continuing Calibration Verification1	Mn (257.610 nm)	0.7567 (ppm)	0.52	0.7567 (ppm)	205471.3438
3/16/2018 21:37:55	Continuing Calibration Verification1	Mo (202.032 nm)	2.4660 (ppm)	0.55	2.4660 (ppm)	21972.3517
3/16/2018 21:37:55	Continuing Calibration Verification1	Na (588.995 nm)	24.2670 (ppm)	0.33	24.2670 (ppm)	872888.5314
3/16/2018 21:37:55	Continuing Calibration Verification1	Ni (230.299 nm)	2.0278 (ppm)	0.44	2.0278 (ppm)	12617.9680
3/16/2018 21:37:55	Continuing Calibration Verification1	Pb (220.353 nm)	0.4914 (ppm)	0.75	0.4914 (ppm)	989.3533
3/16/2018 21:37:55	Continuing Calibration Verification1	Sb (217.582 nm)	4.8652 (ppm)	0.57	4.8652 (ppm)	6141.8296
3/16/2018 21:37:55	Continuing Calibration Verification1	Se (196.026 nm)	0.4860 (ppm)	0.42	0.4860 (ppm)	422.2650
3/16/2018 21:37:55	Continuing Calibration Verification1	Sn (189.925 nm)	5.0625 (ppm)	0.26	5.0625 (ppm)	5741.5119

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:37:55	Continuing Calibration Verification1	Sr (216.596 nm)	2.4979 (ppm)	0.18	2.4979 (ppm)	32962.7439
3/16/2018 21:37:55	Continuing Calibration Verification1	Ti (336.122 nm)	2.4349 (ppm)	0.48	2.4349 (ppm)	410138.5565
3/16/2018 21:37:55	Continuing Calibration Verification1	Ti (351.923 nm)	0.9754 (ppm)	0.55	0.9754 (ppm)	2179.4410
3/16/2018 21:37:55	Continuing Calibration Verification1	V (292.401 nm)	2.4799 (ppm)	0.62	2.4799 (ppm)	75721.7979
3/16/2018 21:37:55	Continuing Calibration Verification1	Y (360.074 nm)	1.01 (Ratio)	0.45	1.01 (Ratio)	738292.57
3/16/2018 21:37:55	Continuing Calibration Verification1	Y_R (360.074 nm)	1.01 (Ratio)	0.45	1.01 (Ratio)	741052.02
3/16/2018 21:37:55	Continuing Calibration Verification1	Zn (213.857 nm)	0.9576 (ppm)	0.41	0.9576 (ppm)	27289.6826
3/16/2018 21:41:15	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 (ppm)	47.44	0.0000 (ppm)	-99.2928
3/16/2018 21:41:15	Continuing Calibration Blank1	Al (394.401 nm)	0.0015 (ppm)	50.65	0.0015 (ppm)	137.9139
3/16/2018 21:41:15	Continuing Calibration Blank1	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-3.7221
3/16/2018 21:41:15	Continuing Calibration Blank1	B (249.772 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	95.6759
3/16/2018 21:41:15	Continuing Calibration Blank1	Ba (230.424 nm)	0.0011 (ppm)	12.91	0.0011 (ppm)	31.1474
3/16/2018 21:41:15	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	12.36	0.0000 (ppm)	-512.3316
3/16/2018 21:41:15	Continuing Calibration Blank1	Ca (227.547 nm)	0.0810 (ppm)	17.01	0.0810 (ppm)	8.0259
3/16/2018 21:41:15	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.0729
3/16/2018 21:41:15	Continuing Calibration Blank1	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-0.3731
3/16/2018 21:41:15	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 (ppm)	97.23	0.0001 (ppm)	3.9477
3/16/2018 21:41:15	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.8269
3/16/2018 21:41:15	Continuing Calibration Blank1	Fe (234.350 nm)	0.0020 (ppm)	25.52	0.0020 (ppm)	39.1180
3/16/2018 21:41:15	Continuing Calibration Blank1	K (766.491 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	39.7460
3/16/2018 21:41:15	Continuing Calibration Blank1	Mg (279.078 nm)	0.0045 (ppm)	52.77	0.0045 (ppm)	0.1960
3/16/2018 21:41:15	Continuing Calibration Blank1	Mn (257.610 nm)	0.0001 (ppm)	26.94	0.0001 (ppm)	18.9262
3/16/2018 21:41:15	Continuing Calibration Blank1	Mo (202.032 nm)	0.0014 (ppm)	11.93	0.0014 (ppm)	22.3688
3/16/2018 21:41:15	Continuing Calibration Blank1	Na (588.995 nm)	0.0122 (ppm)	19.37	0.0122 (ppm)	-7704.6723
3/16/2018 21:41:15	Continuing Calibration Blank1	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.5330
3/16/2018 21:41:15	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.7973
3/16/2018 21:41:15	Continuing Calibration Blank1	Sb (217.582 nm)	0.0037 (ppm)	39.84	0.0037 (ppm)	4.6849
3/16/2018 21:41:15	Continuing Calibration Blank1	Se (196.026 nm)	0.0026 (ppm)	43.52	0.0026 (ppm)	1.2214
3/16/2018 21:41:15	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3350
3/16/2018 21:41:15	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003 (ppm)	73.08	0.0003 (ppm)	4.5416
3/16/2018 21:41:15	Continuing Calibration Blank1	Ti (336.122 nm)	0.0013 (ppm)	12.51	0.0013 (ppm)	-372.8479
3/16/2018 21:41:15	Continuing Calibration Blank1	Ti (351.923 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.5775
3/16/2018 21:41:15	Continuing Calibration Blank1	V (292.401 nm)	0.0001 (ppm)	56.59	0.0001 (ppm)	137.7046
3/16/2018 21:41:15	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.42	1.03 (Ratio)	756333.12
3/16/2018 21:41:15	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.43	1.03 (Ratio)	759366.11
3/16/2018 21:41:15	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001 (ppm)	74.26	0.0001 (ppm)	-26.8436
3/16/2018 21:44:33	PBW-310003	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.0037
3/16/2018 21:44:33	PBW-310003	Al (394.401 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	132.7113
3/16/2018 21:44:33	PBW-310003	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.8872
3/16/2018 21:44:33	PBW-310003	B (249.772 nm)	0.0002 (ppm)	68.21	0.0002 (ppm)	101.7746
3/16/2018 21:44:33	PBW-310003	Ba (230.424 nm)	0.0001 (ppm)	48.57	0.0001 (ppm)	3.4471
3/16/2018 21:44:33	PBW-310003	Be (313.107 nm)	0.0000 (ppm)	40.01	0.0000 (ppm)	-541.1297
3/16/2018 21:44:33	PBW-310003	Ca (227.547 nm)	-0.0487 u (ppm)	56.19	-0.0487 (ppm)	2.1593
3/16/2018 21:44:33	PBW-310003	Cd (214.439 nm)	-0.0003 u (ppm)	71.73	-0.0003 (ppm)	11.5651
3/16/2018 21:44:33	PBW-310003	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.4498
3/16/2018 21:44:33	PBW-310003	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.9523
3/16/2018 21:44:33	PBW-310003	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.3934
3/16/2018 21:44:33	PBW-310003	Fe (234.350 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	21.0053
3/16/2018 21:44:33	PBW-310003	K (766.491 nm)	-0.0128 u (ppm)	50.20	-0.0128 (ppm)	2.2963
3/16/2018 21:44:33	PBW-310003	Mg (279.078 nm)	0.0030 (ppm)	49.35	0.0030 (ppm)	-2.6174
3/16/2018 21:44:33	PBW-310003	Mn (257.610 nm)	0.0034 (ppm)	0.30	0.0034 (ppm)	935.1927

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:44:33	PBW-310003	Mo (202.032 nm)	-0.0003 u (ppm)	38.81	-0.0003 (ppm)	7.3511
3/16/2018 21:44:33	PBW-310003	Na (588.995 nm)	0.0067 (ppm)	27.18	0.0067 (ppm)	-7903.5236
3/16/2018 21:44:33	PBW-310003	Ni (230.299 nm)	0.0011 (ppm)	85.98	0.0011 (ppm)	-14.8745
3/16/2018 21:44:33	PBW-310003	Pb (220.353 nm)	-0.0017 u (ppm)	54.77	-0.0017 (ppm)	2.7122
3/16/2018 21:44:33	PBW-310003	Sb (217.582 nm)	0.0015 (ppm)	87.25	0.0015 (ppm)	1.8380
3/16/2018 21:44:33	PBW-310003	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.9363
3/16/2018 21:44:33	PBW-310003	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.7145
3/16/2018 21:44:33	PBW-310003	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	1.1914
3/16/2018 21:44:33	PBW-310003	Ti (336.122 nm)	0.0011 (ppm)	12.19	0.0011 (ppm)	-401.4758
3/16/2018 21:44:33	PBW-310003	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	14.9121
3/16/2018 21:44:33	PBW-310003	V (292.401 nm)	-0.0004 u (ppm)	26.37	-0.0004 (ppm)	122.1074
3/16/2018 21:44:33	PBW-310003	Y (360.074 nm)	1.05 (Ratio)	0.33	1.05 (Ratio)	770786.62
3/16/2018 21:44:33	PBW-310003	Y_R (360.074 nm)	1.05 (Ratio)	0.33	1.05 (Ratio)	773831.01
3/16/2018 21:44:33	PBW-310003	Zn (213.857 nm)	0.0017 (ppm)	3.65	0.0017 (ppm)	17.6148
3/16/2018 21:47:52	LCSW-310003	Ag (328.068 nm)	0.0492 (ppm)	0.39	0.0492 (ppm)	2887.2289
3/16/2018 21:47:52	LCSW-310003	Al (394.401 nm)	1.8316 (ppm)	0.37	1.8316 (ppm)	18925.3029
3/16/2018 21:47:52	LCSW-310003	As (188.980 nm)	0.0382 (ppm)	10.04	0.0382 (ppm)	30.3630
3/16/2018 21:47:52	LCSW-310003	B (249.772 nm)	0.9659 (ppm)	0.43	0.9659 (ppm)	25445.2317
3/16/2018 21:47:52	LCSW-310003	Ba (230.424 nm)	2.0246 (ppm)	0.20	2.0246 (ppm)	59363.3799
3/16/2018 21:47:52	LCSW-310003	Be (313.107 nm)	0.0492 (ppm)	0.40	0.0492 (ppm)	64744.5665
3/16/2018 21:47:52	LCSW-310003	Ca (227.547 nm)	1.8064 (ppm)	2.52	1.8064 (ppm)	86.0915
3/16/2018 21:47:52	LCSW-310003	Cd (214.439 nm)	0.0520 (ppm)	0.31	0.0520 (ppm)	1094.3478
3/16/2018 21:47:52	LCSW-310003	Co (230.786 nm)	0.5146 (ppm)	0.62	0.5146 (ppm)	4627.9383
3/16/2018 21:47:52	LCSW-310003	Cr (267.716 nm)	0.2037 (ppm)	0.33	0.2037 (ppm)	8614.1895
3/16/2018 21:47:52	LCSW-310003	Cu (327.395 nm)	0.2430 (ppm)	0.19	0.2430 (ppm)	12079.8737
3/16/2018 21:47:52	LCSW-310003	Fe (234.350 nm)	1.0029 (ppm)	0.34	1.0029 (ppm)	9769.3464
3/16/2018 21:47:52	LCSW-310003	K (766.491 nm)	18.9915 (ppm)	0.51	18.9915 (ppm)	45022.9935
3/16/2018 21:47:52	LCSW-310003	Mg (279.078 nm)	1.9496 (ppm)	0.46	1.9496 (ppm)	3547.8910
3/16/2018 21:47:52	LCSW-310003	Mn (257.610 nm)	0.5008 (ppm)	0.27	0.5008 (ppm)	136004.3532
3/16/2018 21:47:52	LCSW-310003	Mo (202.032 nm)	0.4905 (ppm)	0.25	0.4905 (ppm)	4379.0827
3/16/2018 21:47:52	LCSW-310003	Na (588.995 nm)	19.1308 (ppm)	0.51	19.1308 (ppm)	686413.3462
3/16/2018 21:47:52	LCSW-310003	Ni (230.299 nm)	0.5025 (ppm)	0.21	0.5025 (ppm)	3110.0733
3/16/2018 21:47:52	LCSW-310003	Pb (220.353 nm)	0.5082 (ppm)	0.39	0.5082 (ppm)	1023.0174
3/16/2018 21:47:52	LCSW-310003	Sb (217.582 nm)	0.4737 (ppm)	0.47	0.4737 (ppm)	597.9695
3/16/2018 21:47:52	LCSW-310003	Se (196.026 nm)	1.0502 (ppm)	0.45	1.0502 (ppm)	913.5872
3/16/2018 21:47:52	LCSW-310003	Sn (189.925 nm)	5.0108 (ppm)	0.26	5.0108 (ppm)	5682.8595
3/16/2018 21:47:52	LCSW-310003	Sr (216.596 nm)	2.0343 (ppm)	0.77	2.0343 (ppm)	26844.7639
3/16/2018 21:47:52	LCSW-310003	Ti (336.122 nm)	0.4879 (ppm)	0.43	0.4879 (ppm)	81722.1946
3/16/2018 21:47:52	LCSW-310003	Tl (351.923 nm)	1.8552 (ppm)	0.61	1.8552 (ppm)	4130.5403
3/16/2018 21:47:52	LCSW-310003	V (292.401 nm)	0.4873 (ppm)	0.23	0.4873 (ppm)	14988.8465
3/16/2018 21:47:52	LCSW-310003	Y (360.074 nm)	1.03 (Ratio)	0.74	1.03 (Ratio)	751579.88
3/16/2018 21:47:52	LCSW-310003	Y_R (360.074 nm)	1.03 (Ratio)	0.74	1.03 (Ratio)	754511.22
3/16/2018 21:47:52	LCSW-310003	Zn (213.857 nm)	0.4832 (ppm)	0.61	0.4832 (ppm)	13756.2690
3/16/2018 21:51:11	R1801979-001	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-92.7672
3/16/2018 21:51:11	R1801979-001	Al (394.401 nm)	0.0599 (ppm)	3.20	0.0599 (ppm)	737.3029
3/16/2018 21:51:11	R1801979-001	As (188.980 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	-5.5361
3/16/2018 21:51:11	R1801979-001	B (249.772 nm)	0.0226 (ppm)	0.49	0.0226 (ppm)	689.0319
3/16/2018 21:51:11	R1801979-001	Ba (230.424 nm)	0.4442 (ppm)	0.35	0.4442 (ppm)	13024.9065
3/16/2018 21:51:11	R1801979-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-556.7239
3/16/2018 21:51:11	R1801979-001	Ca (227.547 nm)	1065.0077 u (ppm)	0.33	1065.0077 (ppm)	48189.6819
3/16/2018 21:51:11	R1801979-001	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	17.8302



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:51:11	R1801979-001	Co (230.786 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	1.5813
3/16/2018 21:51:11	R1801979-001	Cr (267.716 nm)	-0.0004 u (ppm)	26.29	-0.0004 (ppm)	-18.3513
3/16/2018 21:51:11	R1801979-001	Cu (327.395 nm)	0.0039 (ppm)	3.42	0.0039 (ppm)	209.8413
3/16/2018 21:51:11	R1801979-001	Fe (234.350 nm)	0.0654 (ppm)	0.99	0.0654 (ppm)	655.5997
3/16/2018 21:51:11	R1801979-001	K (766.491 nm)	71.3076 o (ppm)	0.35	71.3076 (ppm)	168959.0254
3/16/2018 21:51:11	R1801979-001	Mg (279.078 nm)	6.4014 (ppm)	0.11	6.4014 (ppm)	11667.6617
3/16/2018 21:51:11	R1801979-001	Mn (257.610 nm)	0.0772 (ppm)	0.22	0.0772 (ppm)	20955.7046
3/16/2018 21:51:11	R1801979-001	Mo (202.032 nm)	0.0090 (ppm)	1.47	0.0090 (ppm)	90.6865
3/16/2018 21:51:11	R1801979-001	Na (588.995 nm)	507.0783 o (ppm)	0.51	507.0783 (ppm)	18401784.4799
3/16/2018 21:51:11	R1801979-001	Ni (230.299 nm)	0.0095 (ppm)	13.18	0.0095 (ppm)	37.1967
3/16/2018 21:51:11	R1801979-001	Pb (220.353 nm)	0.0019 (ppm)	41.68	0.0019 (ppm)	10.0052
3/16/2018 21:51:11	R1801979-001	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.1371
3/16/2018 21:51:11	R1801979-001	Se (196.026 nm)	0.0010 (ppm)	> 100.00	0.0010 (ppm)	-0.1368
3/16/2018 21:51:11	R1801979-001	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.7840
3/16/2018 21:51:11	R1801979-001	Sr (216.596 nm)	8.7867 o (ppm)	0.81	8.7867 (ppm)	115948.9175
3/16/2018 21:51:11	R1801979-001	Ti (336.122 nm)	0.0078 (ppm)	2.37	0.0078 (ppm)	736.6345
3/16/2018 21:51:11	R1801979-001	Ti (351.923 nm)	0.0298 (ppm)	7.52	0.0298 (ppm)	82.6338
3/16/2018 21:51:11	R1801979-001	V (292.401 nm)	0.0004 (ppm)	8.66	0.0004 (ppm)	148.7210
3/16/2018 21:51:11	R1801979-001	Y (360.074 nm)	0.91 (Ratio)	0.48	0.91 (Ratio)	662451.49
3/16/2018 21:51:11	R1801979-001	Y_R (360.074 nm)	0.91 (Ratio)	0.48	0.91 (Ratio)	664526.09
3/16/2018 21:51:11	R1801979-001	Zn (213.857 nm)	0.0021 (ppm)	2.41	0.0021 (ppm)	30.1412
3/16/2018 21:54:30	R1801979-001S	Ag (328.068 nm)	0.0547 (ppm)	0.59	0.0547 (ppm)	3218.6772
3/16/2018 21:54:30	R1801979-001S	Al (394.401 nm)	2.3791 (ppm)	0.76	2.3791 (ppm)	24545.9939
3/16/2018 21:54:30	R1801979-001S	As (188.980 nm)	0.0429 (ppm)	13.44	0.0429 (ppm)	34.5593
3/16/2018 21:54:30	R1801979-001S	B (249.772 nm)	1.0659 (ppm)	0.65	1.0659 (ppm)	28072.0831
3/16/2018 21:54:30	R1801979-001S	Ba (230.424 nm)	2.3829 (ppm)	0.79	2.3829 (ppm)	69868.5842
3/16/2018 21:54:30	R1801979-001S	Be (313.107 nm)	0.0470 (ppm)	0.62	0.0470 (ppm)	61744.6637
3/16/2018 21:54:30	R1801979-001S	Ce (227.547 nm)	1069.4225 o (ppm)	0.63	1069.4225 (ppm)	48389.4238
3/16/2018 21:54:30	R1801979-001S	Cd (214.439 nm)	0.0478 (ppm)	0.80	0.0478 (ppm)	1006.3051
3/16/2018 21:54:30	R1801979-001S	Co (230.786 nm)	0.4879 (ppm)	0.48	0.4879 (ppm)	4387.6738
3/16/2018 21:54:30	R1801979-001S	Cr (267.716 nm)	0.1942 (ppm)	0.63	0.1942 (ppm)	8213.7881
3/16/2018 21:54:30	R1801979-001S	Cu (327.395 nm)	0.2782 (ppm)	0.72	0.2782 (ppm)	13828.5996
3/16/2018 21:54:30	R1801979-001S	Fe (234.350 nm)	1.0211 (ppm)	0.63	1.0211 (ppm)	9946.8323
3/16/2018 21:54:30	R1801979-001S	K (766.491 nm)	93.9180 o (ppm)	0.93	93.9180 (ppm)	222522.5659
3/16/2018 21:54:30	R1801979-001S	Mg (279.078 nm)	8.3458 (ppm)	0.55	8.3458 (ppm)	15214.0484
3/16/2018 21:54:30	R1801979-001S	Mn (257.610 nm)	0.5620 (ppm)	0.59	0.5620 (ppm)	152616.2589
3/16/2018 21:54:30	R1801979-001S	Mo (202.032 nm)	0.4922 (ppm)	0.47	0.4922 (ppm)	4393.4203
3/16/2018 21:54:30	R1801979-001S	Na (588.995 nm)	520.4532 o (ppm)	0.85	520.4532 (ppm)	18887369.8306
3/16/2018 21:54:30	R1801979-001S	Ni (230.299 nm)	0.4800 (ppm)	0.52	0.4800 (ppm)	2970.1380
3/16/2018 21:54:30	R1801979-001S	Pb (220.353 nm)	0.4963 (ppm)	0.78	0.4963 (ppm)	999.0699
3/16/2018 21:54:30	R1801979-001S	Sb (217.582 nm)	0.5008 (ppm)	1.66	0.5008 (ppm)	632.2124
3/16/2018 21:54:30	R1801979-001S	Se (196.026 nm)	1.1100 o (ppm)	0.77	1.1100 (ppm)	965.7107
3/16/2018 21:54:30	R1801979-001S	Sn (189.925 nm)	4.8405 (ppm)	0.04	4.8405 (ppm)	5489.7224
3/16/2018 21:54:30	R1801979-001S	Sr (216.596 nm)	10.6507 o (ppm)	0.39	10.6507 (ppm)	140546.9344
3/16/2018 21:54:30	R1801979-001S	Ti (336.122 nm)	0.5034 (ppm)	0.56	0.5034 (ppm)	84323.5666
3/16/2018 21:54:30	R1801979-001S	Ti (351.923 nm)	2.2867 o (ppm)	0.84	2.2867 (ppm)	5087.4561
3/16/2018 21:54:30	R1801979-001S	V (292.401 nm)	0.4896 (ppm)	0.66	0.4896 (ppm)	15059.6080
3/16/2018 21:54:30	R1801979-001S	Y (360.074 nm)	0.90 (Ratio)	0.95	0.90 (Ratio)	659336.80
3/16/2018 21:54:30	R1801979-001S	Y_R (360.074 nm)	0.90 (Ratio)	0.96	0.90 (Ratio)	661389.16
3/16/2018 21:54:30	R1801979-001S	Zn (213.857 nm)	0.4994 (ppm)	0.58	0.4994 (ppm)	14217.6916
3/16/2018 21:57:49	R1801979-001SD	Ag (328.068 nm)	0.0543 (ppm)	0.92	0.0543 (ppm)	3194.3236

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 21:57:49	R1801979-001SD	Al (394.401 nm)	2.3686 (ppm)	0.64	2.3686 (ppm)	24438.2176
3/16/2018 21:57:49	R1801979-001SD	As (188.980 nm)	0.0431 (ppm)	25.20	0.0431 (ppm)	34.6571
3/16/2018 21:57:49	R1801979-001SD	B (249.772 nm)	1.0616 (ppm)	0.61	1.0616 (ppm)	27958.7676
3/16/2018 21:57:49	R1801979-001SD	Ba (230.424 nm)	2.3751 (ppm)	0.49	2.3751 (ppm)	69641.9658
3/16/2018 21:57:49	R1801979-001SD	Be (313.107 nm)	0.0468 (ppm)	0.56	0.0468 (ppm)	61553.9860
3/16/2018 21:57:49	R1801979-001SD	Ca (227.547 nm)	1057.5468 o (ppm)	0.75	1057.5468 (ppm)	47852.1203
3/16/2018 21:57:49	R1801979-001SD	Cd (214.439 nm)	0.0478 (ppm)	0.41	0.0478 (ppm)	1007.1966
3/16/2018 21:57:49	R1801979-001SD	Co (230.786 nm)	0.4867 (ppm)	0.66	0.4867 (ppm)	4376.1843
3/16/2018 21:57:49	R1801979-001SD	Cr (267.716 nm)	0.1937 (ppm)	0.52	0.1937 (ppm)	8188.9850
3/16/2018 21:57:49	R1801979-001SD	Cu (327.395 nm)	0.2781 (ppm)	0.81	0.2781 (ppm)	13823.3567
3/16/2018 21:57:49	R1801979-001SD	Fe (234.350 nm)	1.0163 (ppm)	0.53	1.0163 (ppm)	9900.2080
3/16/2018 21:57:49	R1801979-001SD	K (766.491 nm)	93.1427 o (ppm)	0.74	93.1427 (ppm)	220685.9560
3/16/2018 21:57:49	R1801979-001SD	Mg (279.078 nm)	8.2885 (ppm)	0.71	8.2885 (ppm)	15109.4626
3/16/2018 21:57:49	R1801979-001SD	Mn (257.610 nm)	0.5603 (ppm)	0.58	0.5603 (ppm)	152161.1647
3/16/2018 21:57:49	R1801979-001SD	Mo (202.032 nm)	0.4933 (ppm)	0.59	0.4933 (ppm)	4404.0266
3/16/2018 21:57:49	R1801979-001SD	Na (588.995 nm)	516.4420 o (ppm)	0.90	516.4420 (ppm)	18741740.5463
3/16/2018 21:57:49	R1801979-001SD	Ni (230.299 nm)	0.4773 (ppm)	0.77	0.4773 (ppm)	2953.1165
3/16/2018 21:57:49	R1801979-001SD	Pb (220.353 nm)	0.4920 (ppm)	0.20	0.4920 (ppm)	990.6126
3/16/2018 21:57:49	R1801979-001SD	Sb (217.582 nm)	0.5018 (ppm)	0.58	0.5018 (ppm)	633.4919
3/16/2018 21:57:49	R1801979-001SD	Se (196.026 nm)	1.1091 o (ppm)	1.05	1.1091 (ppm)	964.8880
3/16/2018 21:57:49	R1801979-001SD	Sn (189.925 nm)	4.8521 (ppm)	0.29	4.8521 (ppm)	5502.8642
3/16/2018 21:57:49	R1801979-001SD	Sr (216.596 nm)	10.5348 o (ppm)	0.08	10.5348 (ppm)	139017.4364
3/16/2018 21:57:49	R1801979-001SD	Ti (336.122 nm)	0.5033 (ppm)	0.63	0.5033 (ppm)	84319.2792
3/16/2018 21:57:49	R1801979-001SD	Tl (351.923 nm)	2.2760 o (ppm)	0.85	2.2760 (ppm)	5063.6732
3/16/2018 21:57:49	R1801979-001SD	V (292.401 nm)	0.4880 (ppm)	0.48	0.4880 (ppm)	15010.2781
3/16/2018 21:57:49	R1801979-001SD	Y (360.074 nm)	0.90 (Ratio)	0.98	0.90 (Ratio)	659180.38
3/16/2018 21:57:49	R1801979-001SD	Y_R (360.074 nm)	0.90 (Ratio)	0.98	0.90 (Ratio)	661235.06
3/16/2018 21:57:49	R1801979-001SD	Zn (213.857 nm)	0.5007 (ppm)	0.53	0.5007 (ppm)	14254.9438
3/16/2018 22:01:08	R1801979-001A	Ag (328.068 nm)	0.0506 (ppm)	0.60	0.0506 (ppm)	2970.1674
3/16/2018 22:01:08	R1801979-001A	Al (394.401 nm)	2.2983 (ppm)	0.57	2.2983 (ppm)	23715.9323
3/16/2018 22:01:08	R1801979-001A	As (188.980 nm)	0.0407 (ppm)	7.17	0.0407 (ppm)	32.6299
3/16/2018 22:01:08	R1801979-001A	B (249.772 nm)	1.0386 (ppm)	0.58	1.0386 (ppm)	27355.0642
3/16/2018 22:01:08	R1801979-001A	Ba (230.424 nm)	2.3185 (ppm)	0.72	2.3185 (ppm)	67980.0708
3/16/2018 22:01:08	R1801979-001A	Be (313.107 nm)	0.0455 (ppm)	0.62	0.0455 (ppm)	59848.9318
3/16/2018 22:01:08	R1801979-001A	Ca (227.547 nm)	1043.7937 o (ppm)	0.71	1043.7937 (ppm)	47229.8718
3/16/2018 22:01:08	R1801979-001A	Cd (214.439 nm)	0.0465 (ppm)	0.88	0.0465 (ppm)	980.0149
3/16/2018 22:01:08	R1801979-001A	Co (230.786 nm)	0.4735 (ppm)	0.97	0.4735 (ppm)	4258.0172
3/16/2018 22:01:08	R1801979-001A	Cr (267.716 nm)	0.1883 (ppm)	0.52	0.1883 (ppm)	7962.6680
3/16/2018 22:01:08	R1801979-001A	Cu (327.395 nm)	0.2704 (ppm)	1.22	0.2704 (ppm)	13442.7273
3/16/2018 22:01:08	R1801979-001A	Fe (234.350 nm)	0.9877 (ppm)	0.58	0.9877 (ppm)	9621.4249
3/16/2018 22:01:08	R1801979-001A	K (766.491 nm)	91.4764 o (ppm)	0.86	91.4764 (ppm)	216738.3821
3/16/2018 22:01:08	R1801979-001A	Mg (279.078 nm)	8.1694 (ppm)	0.62	8.1694 (ppm)	14892.3527
3/16/2018 22:01:08	R1801979-001A	Mn (257.610 nm)	0.5460 (ppm)	0.57	0.5460 (ppm)	148258.1838
3/16/2018 22:01:08	R1801979-001A	Mo (202.032 nm)	0.4827 (ppm)	0.37	0.4827 (ppm)	4308.9735
3/16/2018 22:01:08	R1801979-001A	Na (588.995 nm)	510.5928 o (ppm)	0.79	510.5928 (ppm)	18529379.7020
3/16/2018 22:01:08	R1801979-001A	Ni (230.299 nm)	0.4648 (ppm)	0.69	0.4648 (ppm)	2875.4787
3/16/2018 22:01:08	R1801979-001A	Pb (220.353 nm)	0.4794 (ppm)	0.63	0.4794 (ppm)	965.3499
3/16/2018 22:01:08	R1801979-001A	Sb (217.582 nm)	0.5189 (ppm)	1.33	0.5189 (ppm)	655.1080
3/16/2018 22:01:08	R1801979-001A	Se (196.026 nm)	1.1688 o (ppm)	0.68	1.1688 (ppm)	1016.9335
3/16/2018 22:01:08	R1801979-001A	Sn (189.925 nm)	4.9411 (ppm)	0.84	4.9411 (ppm)	5603.8734
3/16/2018 22:01:08	R1801979-001A	Sr (216.596 nm)	10.4217 o (ppm)	0.46	10.4217 (ppm)	137524.3388

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:01:08	R1801979-001A	Ti (336.122 nm)	0.4957 (ppm)	0.63	0.4957 (ppm)	83035.9026
3/16/2018 22:01:08	R1801979-001A	Ti (351.923 nm)	2.2049 o (ppm)	0.57	2.2049 (ppm)	4906.0438
3/16/2018 22:01:08	R1801979-001A	V (292.401 nm)	0.4750 (ppm)	0.65	0.4750 (ppm)	14612.5667
3/16/2018 22:01:08	R1801979-001A	Y (360.074 nm)	0.90 (Ratio)	0.94	0.90 (Ratio)	657363.65
3/16/2018 22:01:08	R1801979-001A	Y_R (360.074 nm)	0.90 (Ratio)	0.94	0.90 (Ratio)	659357.05
3/16/2018 22:01:08	R1801979-001A	Zn (213.857 nm)	0.4865 (ppm)	0.91	0.4865 (ppm)	13848.8358
3/16/2018 22:04:27	R1801979-001L	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-101.8517
3/16/2018 22:04:27	R1801979-001L	Al (394.401 nm)	0.0321 (ppm)	0.50	0.0321 (ppm)	452.2999
3/16/2018 22:04:27	R1801979-001L	As (188.980 nm)	-0.0022 u (ppm)	73.10	-0.0022 (ppm)	-5.0890
3/16/2018 22:04:27	R1801979-001L	B (249.772 nm)	0.0037 (ppm)	1.26	0.0037 (ppm)	192.5659
3/16/2018 22:04:27	R1801979-001L	Ba (230.424 nm)	0.0865 (ppm)	3.25	0.0865 (ppm)	2534.4254
3/16/2018 22:04:27	R1801979-001L	Be (313.107 nm)	0.0000 (ppm)	88.01	0.0000 (ppm)	-543.3202
3/16/2018 22:04:27	R1801979-001L	Ca (227.547 nm)	187.6663 o (ppm)	3.42	187.6663 (ppm)	8495.1567
3/16/2018 22:04:27	R1801979-001L	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	19.2225
3/16/2018 22:04:27	R1801979-001L	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.0875
3/16/2018 22:04:27	R1801979-001L	Cr (267.716 nm)	-0.0004 u (ppm)	54.75	-0.0004 (ppm)	-19.2778
3/16/2018 22:04:27	R1801979-001L	Cu (327.395 nm)	0.0005 (ppm)	19.75	0.0005 (ppm)	40.9254
3/16/2018 22:04:27	R1801979-001L	Fe (234.350 nm)	0.0128 (ppm)	1.70	0.0128 (ppm)	144.2676
3/16/2018 22:04:27	R1801979-001L	K (766.491 nm)	12.0301 (ppm)	3.05	12.0301 (ppm)	28531.6168
3/16/2018 22:04:27	R1801979-001L	Mg (279.078 nm)	1.2122 (ppm)	3.42	1.2122 (ppm)	2202.8224
3/16/2018 22:04:27	R1801979-001L	Mn (257.610 nm)	0.0151 (ppm)	3.33	0.0151 (ppm)	4099.2792
3/16/2018 22:04:27	R1801979-001L	Mo (202.032 nm)	0.0016 (ppm)	27.53	0.0016 (ppm)	24.9705
3/16/2018 22:04:27	R1801979-001L	Na (588.995 nm)	105.0114 o (ppm)	2.80	105.0114 (ppm)	3804384.3160
3/16/2018 22:04:27	R1801979-001L	Ni (230.289 nm)	0.0025 (ppm)	53.62	0.0025 (ppm)	-6.3183
3/16/2018 22:04:27	R1801979-001L	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.1692
3/16/2018 22:04:27	R1801979-001L	Sb (217.582 nm)	0.0017 (ppm)	57.93	0.0017 (ppm)	2.1627
3/16/2018 22:04:27	R1801979-001L	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-1.9317
3/16/2018 22:04:27	R1801979-001L	Sn (189.925 nm)	-0.0008 u (ppm)	79.60	-0.0008 (ppm)	-0.2971
3/16/2018 22:04:27	R1801979-001L	Sr (216.596 nm)	1.7332 (ppm)	3.36	1.7332 (ppm)	22871.6608
3/16/2018 22:04:27	R1801979-001L	Ti (336.122 nm)	0.0017 (ppm)	6.50	0.0017 (ppm)	-305.9948
3/16/2018 22:04:27	R1801979-001L	Ti (351.923 nm)	0.0074 (ppm)	77.20	0.0074 (ppm)	33.0067
3/16/2018 22:04:27	R1801979-001L	V (292.401 nm)	0.0003 (ppm)	5.16	0.0003 (ppm)	144.5994
3/16/2018 22:04:27	R1801979-001L	Y (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	717238.06
3/16/2018 22:04:27	R1801979-001L	Y_R (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	719760.11
3/16/2018 22:04:27	R1801979-001L	Zn (213.857 nm)	0.0012 (ppm)	14.38	0.0012 (ppm)	2.8331
3/16/2018 22:07:46	R1801979-002	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-104.7821
3/16/2018 22:07:46	R1801979-002	Al (394.401 nm)	0.1112 (ppm)	1.66	0.1112 (ppm)	1264.5936
3/16/2018 22:07:46	R1801979-002	As (188.980 nm)	0.0034 (ppm)	59.65	0.0034 (ppm)	-0.1318
3/16/2018 22:07:46	R1801979-002	B (249.772 nm)	0.0091 (ppm)	0.50	0.0091 (ppm)	335.0520
3/16/2018 22:07:46	R1801979-002	Ba (230.424 nm)	0.8754 (ppm)	0.56	0.8754 (ppm)	25668.6142
3/16/2018 22:07:46	R1801979-002	Be (313.107 nm)	0.0000 (ppm)	19.60	0.0000 (ppm)	-521.7672
3/16/2018 22:07:46	R1801979-002	Ca (227.547 nm)	3894.9590 o (ppm)	0.78	3894.9590 (ppm)	176228.2956
3/16/2018 22:07:46	R1801979-002	Cd (214.439 nm)	0.0004 (ppm)	43.54	0.0004 (ppm)	25.5876
3/16/2018 22:07:46	R1801979-002	Co (230.786 nm)	0.0009 (ppm)	37.59	0.0009 (ppm)	5.6400
3/16/2018 22:07:46	R1801979-002	Cr (267.716 nm)	0.0009 (ppm)	25.47	0.0009 (ppm)	36.9539
3/16/2018 22:07:46	R1801979-002	Cu (327.395 nm)	0.0042 (ppm)	22.55	0.0042 (ppm)	223.6073
3/16/2018 22:07:46	R1801979-002	Fe (234.350 nm)	0.0028 (ppm)	9.64	0.0028 (ppm)	46.6192
3/16/2018 22:07:46	R1801979-002	K (766.491 nm)	173.4506 o (ppm)	0.55	173.4506 (ppm)	410933.7667
3/16/2018 22:07:46	R1801979-002	Mg (279.078 nm)	0.0370 (ppm)	9.27	0.0370 (ppm)	59.4593
3/16/2018 22:07:46	R1801979-002	Mn (257.610 nm)	0.0004 (ppm)	7.00	0.0004 (ppm)	104.6919
3/16/2018 22:07:46	R1801979-002	Mo (202.032 nm)	0.0041 (ppm)	8.71	0.0041 (ppm)	46.6168

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:07:46	R1801979-002	Na (588.995 nm)	### (ppm)	N/A	### (ppm)	###
3/16/2018 22:07:46	R1801979-002	Ni (230.299 nm)	0.0066 (ppm)	13.81	0.0066 (ppm)	19.5443
3/16/2018 22:07:46	R1801979-002	Pb (220.353 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	9.5696
3/16/2018 22:07:46	R1801979-002	Sb (217.582 nm)	0.0045 (ppm)	60.90	0.0045 (ppm)	5.7084
3/16/2018 22:07:46	R1801979-002	Se (196.026 nm)	-0.0031 u (ppm)	32.55	-0.0031 (ppm)	-3.7144
3/16/2018 22:07:46	R1801979-002	Sn (189.925 nm)	-0.0033 u (ppm)	52.45	-0.0033 (ppm)	-3.1535
3/16/2018 22:07:46	R1801979-002	Sr (216.596 nm)	13.6669 o (ppm)	0.51	13.6669 (ppm)	180348.1260
3/16/2018 22:07:46	R1801979-002	Ti (336.122 nm)	0.0264 (ppm)	1.14	0.0264 (ppm)	3865.8026
3/16/2018 22:07:46	R1801979-002	Ti (351.923 nm)	0.1279 (ppm)	2.48	0.1279 (ppm)	300.1878
3/16/2018 22:07:46	R1801979-002	V (292.401 nm)	0.0008 (ppm)	28.38	0.0008 (ppm)	160.2880
3/16/2018 22:07:46	R1801979-002	Y (360.074 nm)	0.80 (Ratio)	0.14	0.80 (Ratio)	587640.06
3/16/2018 22:07:46	R1801979-002	Y_R (360.074 nm)	0.80 (Ratio)	0.14	0.80 (Ratio)	589117.14
3/16/2018 22:07:46	R1801979-002	Zn (213.857 nm)	0.0022 (ppm)	3.90	0.0022 (ppm)	32.9786
3/16/2018 22:11:06	R1801979-003	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-104.6306
3/16/2018 22:11:06	R1801979-003	Al (394.401 nm)	0.1178 (ppm)	4.72	0.1178 (ppm)	1332.4597
3/16/2018 22:11:06	R1801979-003	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.4608
3/16/2018 22:11:06	R1801979-003	B (249.772 nm)	0.0090 (ppm)	3.90	0.0090 (ppm)	331.3309
3/16/2018 22:11:06	R1801979-003	Ba (230.424 nm)	0.8740 (ppm)	2.28	0.8740 (ppm)	25626.6267
3/16/2018 22:11:06	R1801979-003	Be (313.107 nm)	0.0000 (ppm)	87.67	0.0000 (ppm)	-520.6157
3/16/2018 22:11:06	R1801979-003	Ca (227.547 nm)	3881.7552 o (ppm)	2.57	3881.7552 (ppm)	175630.9021
3/16/2018 22:11:06	R1801979-003	Cd (214.439 nm)	0.0005 (ppm)	54.60	0.0005 (ppm)	27.6099
3/16/2018 22:11:06	R1801979-003	Co (230.786 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	1.9020
3/16/2018 22:11:06	R1801979-003	Cr (267.716 nm)	0.0009 (ppm)	21.15	0.0009 (ppm)	34.9084
3/16/2018 22:11:06	R1801979-003	Cu (327.395 nm)	0.0039 (ppm)	21.75	0.0039 (ppm)	211.2291
3/16/2018 22:11:06	R1801979-003	Fe (234.350 nm)	0.0026 (ppm)	13.82	0.0026 (ppm)	45.0633
3/16/2018 22:11:06	R1801979-003	K (766.491 nm)	172.8180 o (ppm)	2.73	172.8180 (ppm)	409435.1687
3/16/2018 22:11:06	R1801979-003	Mg (279.078 nm)	0.0325 (ppm)	19.24	0.0325 (ppm)	51.2647
3/16/2018 22:11:06	R1801979-003	Mn (257.610 nm)	0.0002 (ppm)	13.55	0.0002 (ppm)	54.2200
3/16/2018 22:11:06	R1801979-003	Mo (202.032 nm)	0.0044 (ppm)	5.02	0.0044 (ppm)	49.8484
3/16/2018 22:11:06	R1801979-003	Na (588.995 nm)	### (ppm)	N/A	### (ppm)	###
3/16/2018 22:11:06	R1801979-003	Ni (230.299 nm)	0.0058 (ppm)	27.88	0.0058 (ppm)	14.5769
3/16/2018 22:11:06	R1801979-003	Pb (220.353 nm)	0.0012 (ppm)	> 100.00	0.0012 (ppm)	8.5038
3/16/2018 22:11:06	R1801979-003	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.8483
3/16/2018 22:11:06	R1801979-003	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.8006
3/16/2018 22:11:06	R1801979-003	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.5272
3/16/2018 22:11:06	R1801979-003	Sr (216.596 nm)	13.5189 o (ppm)	3.18	13.5189 (ppm)	178394.5600
3/16/2018 22:11:06	R1801979-003	Ti (336.122 nm)	0.0263 (ppm)	2.05	0.0263 (ppm)	3844.1820
3/16/2018 22:11:06	R1801979-003	Ti (351.923 nm)	0.1252 (ppm)	3.00	0.1252 (ppm)	294.0577
3/16/2018 22:11:06	R1801979-003	V (292.401 nm)	0.0007 (ppm)	33.18	0.0007 (ppm)	156.7626
3/16/2018 22:11:06	R1801979-003	Y (360.074 nm)	0.81 (Ratio)	2.38	0.81 (Ratio)	588760.76
3/16/2018 22:11:06	R1801979-003	Y_R (360.074 nm)	0.80 (Ratio)	2.39	0.80 (Ratio)	590273.43
3/16/2018 22:11:06	R1801979-003	Zn (213.857 nm)	0.0037 (ppm)	2.92	0.0037 (ppm)	74.9401
3/16/2018 22:14:25	R1802079-002	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.1519
3/16/2018 22:14:25	R1802079-002	Al (394.401 nm)	0.0248 (ppm)	3.80	0.0248 (ppm)	376.9865
3/16/2018 22:14:25	R1802079-002	As (188.980 nm)	0.0017 (ppm)	77.94	0.0017 (ppm)	-1.6016
3/16/2018 22:14:25	R1802079-002	B (249.772 nm)	0.0290 (ppm)	0.32	0.0290 (ppm)	857.8782
3/16/2018 22:14:25	R1802079-002	Ba (230.424 nm)	0.1091 (ppm)	0.39	0.1091 (ppm)	3196.9541
3/16/2018 22:14:25	R1802079-002	Be (313.107 nm)	0.0000 (ppm)	40.51	0.0000 (ppm)	-539.1688
3/16/2018 22:14:25	R1802079-002	Ca (227.547 nm)	49.8151 (ppm)	0.96	49.8151 (ppm)	2258.2027
3/16/2018 22:14:25	R1802079-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.7157
3/16/2018 22:14:25	R1802079-002	Co (230.786 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-7.4798

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:14:25	R1802079-002	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.3354
3/16/2018 22:14:25	R1802079-002	Cu (327.395 nm)	0.0003 (ppm)	87.66	0.0003 (ppm)	32.3391
3/16/2018 22:14:25	R1802079-002	Fe (234.350 nm)	0.1224 (ppm)	0.69	0.1224 (ppm)	1209.3244
3/16/2018 22:14:25	R1802079-002	K (766.491 nm)	3.1581 (ppm)	1.19	3.1581 (ppm)	7513.9497
3/16/2018 22:14:25	R1802079-002	Mg (279.078 nm)	16.8828 (ppm)	0.64	16.8828 (ppm)	30784.8929
3/16/2018 22:14:25	R1802079-002	Mn (257.610 nm)	0.0637 (ppm)	0.65	0.0637 (ppm)	17292.4057
3/16/2018 22:14:25	R1802079-002	Mo (202.032 nm)	-0.0005 u (ppm)	88.96	-0.0005 (ppm)	5.9243
3/16/2018 22:14:25	R1802079-002	Na (588.995 nm)	8.5171 (ppm)	1.93	8.5171 (ppm)	301071.6782
3/16/2018 22:14:25	R1802079-002	Ni (230.299 nm)	-0.0070 u (ppm)	10.93	-0.0070 (ppm)	-65.6671
3/16/2018 22:14:25	R1802079-002	Pb (220.353 nm)	-0.0023 u (ppm)	41.28	-0.0023 (ppm)	1.5116
3/16/2018 22:14:25	R1802079-002	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.3017
3/16/2018 22:14:25	R1802079-002	Se (196.026 nm)	-0.0017 u (ppm)	64.82	-0.0017 (ppm)	-2.5168
3/16/2018 22:14:25	R1802079-002	Sn (189.925 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-0.7472
3/16/2018 22:14:25	R1802079-002	Sr (216.596 nm)	0.2073 (ppm)	0.86	0.2073 (ppm)	2736.2049
3/16/2018 22:14:25	R1802079-002	Ti (336.122 nm)	0.0009 (ppm)	4.43	0.0009 (ppm)	-443.2027
3/16/2018 22:14:25	R1802079-002	Ti (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	14.0172
3/16/2018 22:14:25	R1802079-002	V (292.401 nm)	-0.0002 u (ppm)	60.42	-0.0002 (ppm)	129.8651
3/16/2018 22:14:25	R1802079-002	Y (360.074 nm)	1.01 (Ratio)	0.84	1.01 (Ratio)	739875.32
3/16/2018 22:14:25	R1802079-002	Y_R (360.074 nm)	1.01 (Ratio)	0.84	1.01 (Ratio)	742530.75
3/16/2018 22:14:25	R1802079-002	Zn (213.857 nm)	0.0018 (ppm)	5.31	0.0018 (ppm)	20.3482
3/16/2018 22:17:44	Continuing Calibration Verification1	Ag (328.068 nm)	0.4814 (ppm)	0.35	0.4814 (ppm)	29112.8425
3/16/2018 22:17:44	Continuing Calibration Verification1	Al (394.401 nm)	9.5674 (ppm)	0.55	9.5674 (ppm)	98338.3542
3/16/2018 22:17:44	Continuing Calibration Verification1	As (188.980 nm)	0.9753 (ppm)	0.66	0.9753 (ppm)	853.0016
3/16/2018 22:17:44	Continuing Calibration Verification1	B (249.772 nm)	2.4350 (ppm)	0.44	2.4350 (ppm)	64004.9987
3/16/2018 22:17:44	Continuing Calibration Verification1	Ba (230.424 nm)	10.1683 (ppm)	0.14	10.1683 (ppm)	298149.9206
3/16/2018 22:17:44	Continuing Calibration Verification1	Be (313.107 nm)	0.2514 (ppm)	0.39	0.2514 (ppm)	332955.2642
3/16/2018 22:17:44	Continuing Calibration Verification1	Ca (227.547 nm)	24.1440 (ppm)	1.33	24.1440 (ppm)	1096.7361
3/16/2018 22:17:44	Continuing Calibration Verification1	Cd (214.439 nm)	0.5034 (ppm)	0.46	0.5034 (ppm)	10437.0077
3/16/2018 22:17:44	Continuing Calibration Verification1	Co (230.786 nm)	2.5703 (ppm)	0.41	2.5703 (ppm)	23122.4046
3/16/2018 22:17:44	Continuing Calibration Verification1	Cr (267.716 nm)	0.5211 (ppm)	0.37	0.5211 (ppm)	22041.1726
3/16/2018 22:17:44	Continuing Calibration Verification1	Cu (327.395 nm)	1.2159 (ppm)	0.56	1.2159 (ppm)	60377.5825
3/16/2018 22:17:44	Continuing Calibration Verification1	Fe (234.350 nm)	5.0141 (ppm)	0.43	5.0141 (ppm)	48765.2060
3/16/2018 22:17:44	Continuing Calibration Verification1	K (766.491 nm)	24.4694 (ppm)	0.76	24.4694 (ppm)	58000.1496
3/16/2018 22:17:44	Continuing Calibration Verification1	Mg (279.078 nm)	24.7483 (ppm)	0.41	24.7483 (ppm)	45131.0934
3/16/2018 22:17:44	Continuing Calibration Verification1	Mn (257.610 nm)	0.7657 (ppm)	0.37	0.7657 (ppm)	207912.1263
3/16/2018 22:17:44	Continuing Calibration Verification1	Mo (202.032 nm)	2.4986 (ppm)	0.32	2.4986 (ppm)	22263.1534
3/16/2018 22:17:44	Continuing Calibration Verification1	Na (588.995 nm)	24.5119 (ppm)	0.84	24.5119 (ppm)	881779.6620
3/16/2018 22:17:44	Continuing Calibration Verification1	Ni (230.299 nm)	2.0500 (ppm)	0.46	2.0500 (ppm)	12755.9222
3/16/2018 22:17:44	Continuing Calibration Verification1	Pb (220.353 nm)	0.4982 (ppm)	0.53	0.4982 (ppm)	1002.8983
3/16/2018 22:17:44	Continuing Calibration Verification1	Sb (217.582 nm)	4.9301 (ppm)	0.78	4.9301 (ppm)	6223.7388
3/16/2018 22:17:44	Continuing Calibration Verification1	Se (196.026 nm)	0.4897 (ppm)	0.56	0.4897 (ppm)	425.4325
3/16/2018 22:17:44	Continuing Calibration Verification1	Sn (189.925 nm)	5.1060 (ppm)	0.51	5.1060 (ppm)	5790.7990
3/16/2018 22:17:44	Continuing Calibration Verification1	Sr (216.596 nm)	2.5264 (ppm)	0.31	2.5264 (ppm)	33338.3338
3/16/2018 22:17:44	Continuing Calibration Verification1	Ti (336.122 nm)	2.4637 (ppm)	0.38	2.4637 (ppm)	415006.3206
3/16/2018 22:17:44	Continuing Calibration Verification1	Ti (351.923 nm)	0.9875 (ppm)	0.67	0.9875 (ppm)	2206.3548
3/16/2018 22:17:44	Continuing Calibration Verification1	V (292.401 nm)	2.5068 (ppm)	0.41	2.5068 (ppm)	76541.3968
3/16/2018 22:17:44	Continuing Calibration Verification1	Y (360.074 nm)	1.00 (Ratio)	0.89	1.00 (Ratio)	730700.59
3/16/2018 22:17:44	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00 (Ratio)	0.89	1.00 (Ratio)	733251.85
3/16/2018 22:17:44	Continuing Calibration Verification1	Zn (213.857 nm)	0.9699 (ppm)	0.46	0.9699 (ppm)	27641.1026
3/16/2018 22:21:03	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	44.60	0.0002 (ppm)	-91.2726
3/16/2018 22:21:03	Continuing Calibration Blank1	Al (394.401 nm)	0.0008 (ppm)	93.41	0.0008 (ppm)	130.8990

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:21:03	Continuing Calibration Blank 1	As (188.980 nm)	-0.0020 u (ppm)	70.87	-0.0020 (ppm)	-4.8633
3/16/2018 22:21:03	Continuing Calibration Blank 1	B (249.772 nm)	0.0003 (ppm)	56.73	0.0003 (ppm)	103.8569
3/16/2018 22:21:03	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0021 (ppm)	23.38	0.0021 (ppm)	61.5689
3/16/2018 22:21:03	Continuing Calibration Blank 1	Be (313.107 nm)	0.0001 (ppm)	15.49	0.0001 (ppm)	-478.7049
3/16/2018 22:21:03	Continuing Calibration Blank 1	Ca (227.547 nm)	0.0757 (ppm)	59.08	0.0757 (ppm)	7.7852
3/16/2018 22:21:03	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0002 (ppm)	93.11	0.0002 (ppm)	22.5566
3/16/2018 22:21:03	Continuing Calibration Blank 1	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.9800
3/16/2018 22:21:03	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0001 (ppm)	93.05	0.0001 (ppm)	2.0891
3/16/2018 22:21:03	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.2186
3/16/2018 22:21:03	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0016 (ppm)	11.30	0.0016 (ppm)	35.6618
3/16/2018 22:21:03	Continuing Calibration Blank 1	K (766.491 nm)	0.0051 u (ppm)	> 100.00	0.0051 (ppm)	44.5509
3/16/2018 22:21:03	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0063 (ppm)	20.16	0.0063 (ppm)	3.3386
3/16/2018 22:21:03	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0001 (ppm)	18.60	0.0001 (ppm)	38.8541
3/16/2018 22:21:03	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0020 (ppm)	6.77	0.0020 (ppm)	27.9408
3/16/2018 22:21:03	Continuing Calibration Blank 1	Na (588.995 nm)	0.0312 (ppm)	13.51	0.0312 (ppm)	-7014.8760
3/16/2018 22:21:03	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-21.4893
3/16/2018 22:21:03	Continuing Calibration Blank 1	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.8841
3/16/2018 22:21:03	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0033 (ppm)	46.45	0.0033 (ppm)	4.1607
3/16/2018 22:21:03	Continuing Calibration Blank 1	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.6356
3/16/2018 22:21:03	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0010 (ppm)	32.02	0.0010 (ppm)	1.7979
3/16/2018 22:21:03	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0003 (ppm)	97.90	0.0003 (ppm)	4.3142
3/16/2018 22:21:03	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0014 (ppm)	0.71	0.0014 (ppm)	-343.1804
3/16/2018 22:21:03	Continuing Calibration Blank 1	Tl (351.923 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	17.4721
3/16/2018 22:21:03	Continuing Calibration Blank 1	V (292.401 nm)	0.0004 (ppm)	90.00	0.0004 (ppm)	146.6692
3/16/2018 22:21:03	Continuing Calibration Blank 1	Y (360.074 nm)	1.03 (Ratio)	0.62	1.03 (Ratio)	749570.60
3/16/2018 22:21:03	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.02 (Ratio)	0.62	1.02 (Ratio)	752435.23
3/16/2018 22:21:03	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0003 (ppm)	43.09	0.0003 (ppm)	-22.2963
3/16/2018 22:24:22	R1802079-004	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-98.4669
3/16/2018 22:24:22	R1802079-004	Al (394.401 nm)	0.0355 (ppm)	1.82	0.0355 (ppm)	486.7419
3/16/2018 22:24:22	R1802079-004	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-2.5112
3/16/2018 22:24:22	R1802079-004	B (249.772 nm)	0.0509 (ppm)	0.53	0.0509 (ppm)	1432.5659
3/16/2018 22:24:22	R1802079-004	Ba (230.424 nm)	0.1001 (ppm)	0.15	0.1001 (ppm)	2934.1572
3/16/2018 22:24:22	R1802079-004	Be (313.107 nm)	0.0000 (ppm)	49.84	0.0000 (ppm)	-531.5327
3/16/2018 22:24:22	R1802079-004	Ca (227.547 nm)	80.6632 o (ppm)	0.21	80.6632 (ppm)	3653.8943
3/16/2018 22:24:22	R1802079-004	Cd (214.439 nm)	-0.0002 u (ppm)	42.58	-0.0002 (ppm)	14.0630
3/16/2018 22:24:22	R1802079-004	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.0592
3/16/2018 22:24:22	R1802079-004	Cr (267.716 nm)	0.0007 (ppm)	7.43	0.0007 (ppm)	28.2376
3/16/2018 22:24:22	R1802079-004	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	17.4065
3/16/2018 22:24:22	R1802079-004	Fe (234.350 nm)	0.3086 (ppm)	0.45	0.3086 (ppm)	3020.1384
3/16/2018 22:24:22	R1802079-004	K (766.491 nm)	2.6201 (ppm)	0.81	2.6201 (ppm)	6239.4918
3/16/2018 22:24:22	R1802079-004	Mg (279.078 nm)	11.7300 (ppm)	0.27	11.7300 (ppm)	21386.5660
3/16/2018 22:24:22	R1802079-004	Mn (257.610 nm)	0.0511 (ppm)	0.26	0.0511 (ppm)	13865.7081
3/16/2018 22:24:22	R1802079-004	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.7623
3/16/2018 22:24:22	R1802079-004	Na (588.995 nm)	10.4383 (ppm)	0.24	10.4383 (ppm)	370823.0647
3/16/2018 22:24:22	R1802079-004	Ni (230.299 nm)	-0.0033 u (ppm)	24.69	-0.0033 (ppm)	-42.5998
3/16/2018 22:24:22	R1802079-004	Pb (220.353 nm)	-0.0020 u (ppm)	70.55	-0.0020 (ppm)	2.1590
3/16/2018 22:24:22	R1802079-004	Sb (217.582 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	3.7644
3/16/2018 22:24:22	R1802079-004	Se (196.026 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	0.7090
3/16/2018 22:24:22	R1802079-004	Sn (189.925 nm)	-0.0020 u (ppm)	65.59	-0.0020 (ppm)	-1.6480
3/16/2018 22:24:22	R1802079-004	Sr (216.596 nm)	0.3546 (ppm)	0.37	0.3546 (ppm)	4679.3084
3/16/2018 22:24:22	R1802079-004	Ti (336.122 nm)	0.0014 (ppm)	8.53	0.0014 (ppm)	-355.7220

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:24:22	R1802079-004	Tl (351.923 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	17.5437
3/16/2018 22:24:22	R1802079-004	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	139.6822
3/16/2018 22:24:22	R1802079-004	Y (360.074 nm)	1.02 (Ratio)	0.58	1.02 (Ratio)	746003.93
3/16/2018 22:24:22	R1802079-004	Y_R (360.074 nm)	1.02 (Ratio)	0.57	1.02 (Ratio)	748677.43
3/16/2018 22:24:22	R1802079-004	Zn (213.857 nm)	0.0027 (ppm)	3.00	0.0027 (ppm)	47.1849
3/16/2018 22:27:41	R1802079-006	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.0458
3/16/2018 22:27:41	R1802079-006	Al (394.401 nm)	0.1959 (ppm)	1.06	0.1959 (ppm)	2133.3568
3/15/2018 22:27:41	R1802079-006	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-3.0666
3/16/2018 22:27:41	R1802079-006	B (249.772 nm)	0.0098 (ppm)	1.76	0.0098 (ppm)	353.4798
3/16/2018 22:27:41	R1802079-006	Ba (230.424 nm)	0.0885 (ppm)	0.92	0.0885 (ppm)	2594.3713
3/16/2018 22:27:41	R1802079-006	Be (313.107 nm)	0.0000 (ppm)	64.61	0.0000 (ppm)	-539.1084
3/16/2018 22:27:41	R1802079-006	Ca (227.547 nm)	57.2937 o (ppm)	1.05	57.2937 (ppm)	2596.5639
3/16/2018 22:27:41	R1802079-006	Cd (214.439 nm)	0.0003 (ppm)	13.55	0.0003 (ppm)	23.4652
3/16/2018 22:27:41	R1802079-006	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.7075
3/16/2018 22:27:41	R1802079-006	Cr (267.716 nm)	0.0005 (ppm)	38.95	0.0005 (ppm)	19.1069
3/16/2018 22:27:41	R1802079-006	Cu (327.395 nm)	0.0009 (ppm)	16.45	0.0009 (ppm)	63.1126
3/16/2018 22:27:41	R1802079-006	Fe (234.350 nm)	0.1790 (ppm)	0.85	0.1790 (ppm)	1759.6283
3/16/2018 22:27:41	R1802079-006	K (766.491 nm)	1.8855 (ppm)	1.23	1.8855 (ppm)	4499.1601
3/16/2018 22:27:41	R1802079-006	Mg (279.078 nm)	14.5035 (ppm)	0.81	14.5035 (ppm)	26445.2054
3/16/2018 22:27:41	R1802079-006	Mn (257.610 nm)	0.0032 (ppm)	0.75	0.0032 (ppm)	869.8510
3/16/2018 22:27:41	R1802079-006	Mo (202.032 nm)	0.0007 (ppm)	17.03	0.0007 (ppm)	16.8229
3/16/2018 22:27:41	R1802079-006	Na (588.995 nm)	9.5771 (ppm)	1.05	9.5771 (ppm)	339556.4639
3/16/2018 22:27:41	R1802079-006	Ni (230.299 nm)	-0.0033 u (ppm)	8.02	-0.0033 (ppm)	-42.3784
3/16/2018 22:27:41	R1802079-006	Pb (220.353 nm)	-0.0019 u (ppm)	47.85	-0.0019 (ppm)	2.2749
3/16/2018 22:27:41	R1802079-006	Sb (217.582 nm)	0.0034 (ppm)	50.18	0.0034 (ppm)	4.3390
3/16/2018 22:27:41	R1802079-006	Se (196.026 nm)	0.0030 (ppm)	53.26	0.0030 (ppm)	1.5246
3/16/2018 22:27:41	R1802079-006	Sn (189.925 nm)	-0.0017 u (ppm)	62.53	-0.0017 (ppm)	-1.2474
3/16/2018 22:27:41	R1802079-006	Sr (216.596 nm)	0.0979 (ppm)	1.29	0.0979 (ppm)	1292.3740
3/16/2018 22:27:41	R1802079-006	Ti (336.122 nm)	0.0035 (ppm)	5.19	0.0035 (ppm)	11.3707
3/16/2018 22:27:41	R1802079-006	Tl (351.923 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	11.3017
3/16/2018 22:27:41	R1802079-006	V (292.401 nm)	0.0004 (ppm)	24.82	0.0004 (ppm)	147.2000
3/16/2018 22:27:41	R1802079-006	Y (360.074 nm)	1.01 (Ratio)	1.10	1.01 (Ratio)	738758.31
3/16/2018 22:27:41	R1802079-006	Y_R (360.074 nm)	1.01 (Ratio)	1.11	1.01 (Ratio)	741438.82
3/16/2018 22:27:41	R1802079-006	Zn (213.857 nm)	0.0032 (ppm)	3.37	0.0032 (ppm)	60.1390
3/16/2018 22:31:00	R1802079-008	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.6390
3/16/2018 22:31:00	R1802079-008	Al (394.401 nm)	0.4555 (ppm)	1.00	0.4555 (ppm)	4798.1606
3/16/2018 22:31:00	R1802079-008	As (188.980 nm)	0.1296 (ppm)	2.72	0.1296 (ppm)	110.6250
3/16/2018 22:31:00	R1802079-008	B (249.772 nm)	0.0405 (ppm)	0.68	0.0405 (ppm)	1160.0165
3/16/2018 22:31:00	R1802079-008	Ba (230.424 nm)	0.1647 (ppm)	0.65	0.1647 (ppm)	4828.7007
3/16/2018 22:31:00	R1802079-008	Be (313.107 nm)	0.0000 (ppm)	10.51	0.0000 (ppm)	-512.6556
3/16/2018 22:31:00	R1802079-008	Ca (227.547 nm)	64.4480 o (ppm)	0.56	64.4480 (ppm)	2920.2516
3/16/2018 22:31:00	R1802079-008	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.2105
3/16/2018 22:31:00	R1802079-008	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.6170
3/16/2018 22:31:00	R1802079-008	Cr (267.716 nm)	0.0005 (ppm)	11.47	0.0005 (ppm)	18.3440
3/16/2018 22:31:00	R1802079-008	Cu (327.395 nm)	0.0004 (ppm)	12.47	0.0004 (ppm)	37.7645
3/16/2018 22:31:00	R1802079-008	Fe (234.350 nm)	2.1907 (ppm)	0.66	2.1907 (ppm)	21317.0180
3/16/2018 22:31:00	R1802079-008	K (766.491 nm)	2.5303 (ppm)	1.17	2.5303 (ppm)	6026.8011
3/16/2018 22:31:00	R1802079-008	Mg (279.078 nm)	18.6061 (ppm)	0.72	18.6061 (ppm)	33928.1411
3/16/2018 22:31:00	R1802079-008	Mn (257.610 nm)	0.3009 (ppm)	0.71	0.3009 (ppm)	81714.0991
3/16/2018 22:31:00	R1802079-008	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	10.7607
3/16/2018 22:31:00	R1802079-008	Na (588.995 nm)	10.5523 (ppm)	0.97	10.5523 (ppm)	374964.5432

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:31:00	R1802079-008	Ni (230.299 nm)	-0.0048 u (ppm)	11.59	-0.0048 (ppm)	-51.8217
3/16/2018 22:31:00	R1802079-008	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	3.5478
3/16/2018 22:31:00	R1802079-008	Sb (217.582 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	2.4656
3/16/2018 22:31:00	R1802079-008	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.0715
3/16/2018 22:31:00	R1802079-008	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-0.4093
3/16/2018 22:31:00	R1802079-008	Sr (216.596 nm)	0.2195 (ppm)	0.67	0.2195 (ppm)	2897.5690
3/16/2018 22:31:00	R1802079-008	Ti (336.122 nm)	0.0077 (ppm)	16.40	0.0077 (ppm)	718.9731
3/16/2018 22:31:00	R1802079-008	Ti (351.923 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	17.9434
3/16/2018 22:31:00	R1802079-008	V (292.401 nm)	0.0008 (ppm)	27.33	0.0008 (ppm)	158.8956
3/16/2018 22:31:00	R1802079-008	Y (360.074 nm)	1.01 (Ratio)	0.88	1.01 (Ratio)	737001.67
3/16/2018 22:31:00	R1802079-008	Y_R (360.074 nm)	1.01 (Ratio)	0.88	1.01 (Ratio)	739646.46
3/16/2018 22:31:00	R1802079-008	Zn (213.857 nm)	0.0077 (ppm)	0.63	0.0077 (ppm)	190.7868
3/16/2018 22:34:19	R1802079-010	Ag (328.068 nm)	0.0001 (ppm)	72.20	0.0001 (ppm)	-97.3225
3/16/2018 22:34:19	R1802079-010	Al (394.401 nm)	0.0372 (ppm)	4.43	0.0372 (ppm)	504.4076
3/16/2018 22:34:19	R1802079-010	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.6941
3/16/2018 22:34:19	R1802079-010	B (249.772 nm)	0.0537 (ppm)	0.92	0.0537 (ppm)	1505.5040
3/16/2018 22:34:19	R1802079-010	Ba (230.424 nm)	0.1433 (ppm)	1.02	0.1433 (ppm)	4202.3451
3/16/2018 22:34:19	R1802079-010	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-543.8578
3/16/2018 22:34:19	R1802079-010	Ca (227.547 nm)	79.3794 o (ppm)	0.76	79.3794 (ppm)	3595.8130
3/16/2018 22:34:19	R1802079-010	Cd (214.439 nm)	-0.0002 u (ppm)	42.31	-0.0002 (ppm)	12.6193
3/16/2018 22:34:19	R1802079-010	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.1055
3/16/2018 22:34:19	R1802079-010	Cr (267.716 nm)	-0.0001 u (ppm)	65.79	-0.0001 (ppm)	-7.4658
3/16/2018 22:34:19	R1802079-010	Cu (327.395 nm)	0.0005 (ppm)	23.93	0.0005 (ppm)	42.4338
3/16/2018 22:34:19	R1802079-010	Fe (234.350 nm)	0.3335 (ppm)	0.74	0.3335 (ppm)	3262.3316
3/16/2018 22:34:19	R1802079-010	K (766.491 nm)	2.2387 (ppm)	0.93	2.2387 (ppm)	5335.8599
3/16/2018 22:34:19	R1802079-010	Mg (279.078 nm)	13.6316 (ppm)	0.66	13.6316 (ppm)	24854.9563
3/16/2018 22:34:19	R1802079-010	Mn (257.610 nm)	0.1862 (ppm)	0.56	0.1862 (ppm)	50571.2801
3/16/2018 22:34:19	R1802079-010	Mo (202.032 nm)	-0.0007 u (ppm)	1.23	-0.0007 (ppm)	3.7616
3/16/2018 22:34:19	R1802079-010	Na (588.995 nm)	12.9927 (ppm)	0.98	12.9927 (ppm)	463562.3251
3/16/2018 22:34:19	R1802079-010	Ni (230.299 nm)	-0.0058 u (ppm)	7.64	-0.0058 (ppm)	-57.9700
3/16/2018 22:34:19	R1802079-010	Pb (220.353 nm)	-0.0022 u (ppm)	73.66	-0.0022 (ppm)	1.7120
3/16/2018 22:34:19	R1802079-010	Sb (217.582 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	2.5489
3/16/2018 22:34:19	R1802079-010	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	0.1442
3/16/2018 22:34:19	R1802079-010	Sn (189.925 nm)	-0.0027 u (ppm)	85.37	-0.0027 (ppm)	-2.3856
3/16/2018 22:34:19	R1802079-010	Sr (216.596 nm)	0.2562 (ppm)	0.85	0.2562 (ppm)	3381.8809
3/16/2018 22:34:19	R1802079-010	Ti (336.122 nm)	0.0012 (ppm)	1.66	0.0012 (ppm)	-382.5139
3/16/2018 22:34:19	R1802079-010	Ti (351.923 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	12.2413
3/16/2018 22:34:19	R1802079-010	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	137.8957
3/16/2018 22:34:19	R1802079-010	Y (360.074 nm)	1.01 (Ratio)	0.87	1.01 (Ratio)	736187.30
3/16/2018 22:34:19	R1802079-010	Y_R (360.074 nm)	1.01 (Ratio)	0.87	1.01 (Ratio)	738839.87
3/16/2018 22:34:19	R1802079-010	Zn (213.857 nm)	0.0035 (ppm)	2.68	0.0035 (ppm)	69.7287
3/16/2018 22:37:38	R1802079-012	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-101.0327
3/16/2018 22:37:38	R1802079-012	Al (394.401 nm)	0.4243 (ppm)	1.07	0.4243 (ppm)	4478.0447
3/16/2018 22:37:38	R1802079-012	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-2.3721
3/16/2018 22:37:38	R1802079-012	B (249.772 nm)	0.0361 (ppm)	0.94	0.0361 (ppm)	1043.1325
3/16/2018 22:37:38	R1802079-012	Ba (230.424 nm)	0.1657 (ppm)	0.86	0.1657 (ppm)	4857.9428
3/16/2018 22:37:38	R1802079-012	Be (313.107 nm)	0.0000 (ppm)	6.88	0.0000 (ppm)	-517.4018
3/16/2018 22:37:38	R1802079-012	Ca (227.547 nm)	51.1912 (ppm)	0.78	51.1912 (ppm)	2320.4604
3/16/2018 22:37:38	R1802079-012	Cd (214.439 nm)	0.0000 (ppm)	52.34	0.0000 (ppm)	18.3650
3/16/2018 22:37:38	R1802079-012	Co (230.786 nm)	0.0007 (ppm)	69.84	0.0007 (ppm)	4.3933
3/16/2018 22:37:38	R1802079-012	Cr (267.716 nm)	0.0003 (ppm)	29.09	0.0003 (ppm)	10.1531



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:37:38	R1802079-012	Cu (327.395 nm)	0.0013 (ppm)	3.59	0.0013 (ppm)	83.0742
3/16/2018 22:37:38	R1802079-012	Fe (234.350 nm)	0.6379 (ppm)	0.65	0.6379 (ppm)	6220.9729
3/16/2018 22:37:38	R1802079-012	K (766.491 nm)	1.7146 (ppm)	0.91	1.7146 (ppm)	4094.4792
3/16/2018 22:37:38	R1802079-012	Mg (279.078 nm)	14.3359 (ppm)	0.67	14.3359 (ppm)	26139.4961
3/16/2018 22:37:38	R1802079-012	Mn (257.610 nm)	0.0878 (ppm)	0.63	0.0878 (ppm)	23845.3420
3/16/2018 22:37:38	R1802079-012	Mo (202.032 nm)	-0.0004 u (ppm)	65.41	-0.0004 (ppm)	6.9534
3/16/2018 22:37:38	R1802079-012	Na (588.995 nm)	10.3956 (ppm)	0.82	10.3956 (ppm)	369274.2805
3/16/2018 22:37:38	R1802079-012	Ni (230.299 nm)	-0.0035 u (ppm)	24.47	-0.0035 (ppm)	-43.6603
3/16/2018 22:37:38	R1802079-012	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.4419
3/16/2018 22:37:38	R1802079-012	Sb (217.582 nm)	0.0019 u (ppm)	95.48	0.0019 (ppm)	2.4356
3/16/2018 22:37:38	R1802079-012	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.7276
3/16/2018 22:37:38	R1802079-012	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-0.3853
3/16/2018 22:37:38	R1802079-012	Sr (216.596 nm)	0.2113 (ppm)	1.08	0.2113 (ppm)	2788.5950
3/16/2018 22:37:38	R1802079-012	Ti (336.122 nm)	0.0047 (ppm)	7.43	0.0047 (ppm)	205.8754
3/16/2018 22:37:38	R1802079-012	Ti (351.923 nm)	-0.0027 u (ppm)	42.52	-0.0027 (ppm)	10.5922
3/16/2018 22:37:38	R1802079-012	V (292.401 nm)	0.0006 (ppm)	37.12	0.0006 (ppm)	154.9660
3/16/2018 22:37:38	R1802079-012	Y (360.074 nm)	1.01 (Ratio)	0.87	1.01 (Ratio)	741741.24
3/16/2018 22:37:38	R1802079-012	Y_R (360.074 nm)	1.01 (Ratio)	0.86	1.01 (Ratio)	744420.10
3/16/2018 22:37:38	R1802079-012	Zn (213.857 nm)	0.0049 (ppm)	1.18	0.0049 (ppm)	108.2116
3/16/2018 22:40:57	R1802079-014	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.1352
3/16/2018 22:40:57	R1802079-014	Al (394.401 nm)	0.1016 (ppm)	0.69	0.1016 (ppm)	1166.0045
3/16/2018 22:40:57	R1802079-014	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-3.0730
3/16/2018 22:40:57	R1802079-014	B (249.772 nm)	0.0196 (ppm)	1.48	0.0196 (ppm)	610.4165
3/16/2018 22:40:57	R1802079-014	Ba (230.424 nm)	0.1102 (ppm)	0.51	0.1102 (ppm)	3230.9300
3/16/2018 22:40:57	R1802079-014	Be (313.107 nm)	0.0000 (ppm)	16.78	0.0000 (ppm)	-533.7990
3/16/2018 22:40:57	R1802079-014	Ca (227.547 nm)	62.8958 o (ppm)	0.71	62.8958 (ppm)	2850.0234
3/16/2018 22:40:57	R1802079-014	Cd (214.439 nm)	-0.0001 u (ppm)	63.95	-0.0001 (ppm)	15.5056
3/16/2018 22:40:57	R1802079-014	Co (230.786 nm)	-0.0003 u (ppm)	87.49	-0.0003 (ppm)	-4.7723
3/16/2018 22:40:57	R1802079-014	Cr (267.716 nm)	0.0010 (ppm)	2.57	0.0010 (ppm)	39.0210
3/16/2018 22:40:57	R1802079-014	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.4036
3/16/2018 22:40:57	R1802079-014	Fe (234.350 nm)	0.0782 (ppm)	0.66	0.0782 (ppm)	779.6191
3/16/2018 22:40:57	R1802079-014	K (766.491 nm)	1.2899 (ppm)	0.46	1.2899 (ppm)	3088.3047
3/16/2018 22:40:57	R1802079-014	Mg (279.078 nm)	17.2280 (ppm)	0.64	17.2280 (ppm)	31414.4815
3/16/2018 22:40:57	R1802079-014	Mn (257.610 nm)	0.0088 (ppm)	0.51	0.0088 (ppm)	2398.9206
3/16/2018 22:40:57	R1802079-014	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	10.8909
3/16/2018 22:40:57	R1802079-014	Na (588.995 nm)	7.1648 (ppm)	0.71	7.1648 (ppm)	251975.0330
3/16/2018 22:40:57	R1802079-014	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-21.0242
3/16/2018 22:40:57	R1802079-014	Pb (220.353 nm)	-0.0020 u (ppm)	49.01	-0.0020 (ppm)	2.0403
3/16/2018 22:40:57	R1802079-014	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.7456
3/16/2018 22:40:57	R1802079-014	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.1704
3/16/2018 22:40:57	R1802079-014	Sn (189.925 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	-1.7894
3/16/2018 22:40:57	R1802079-014	Sr (216.596 nm)	0.1466 (ppm)	0.97	0.1466 (ppm)	1934.8733
3/16/2018 22:40:57	R1802079-014	Ti (336.122 nm)	0.0015 (ppm)	7.06	0.0015 (ppm)	-328.3381
3/16/2018 22:40:57	R1802079-014	Ti (351.923 nm)	-0.0028 u (ppm)	77.96	-0.0028 (ppm)	10.2598
3/16/2018 22:40:57	R1802079-014	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	135.0667
3/16/2018 22:40:57	R1802079-014	Y (360.074 nm)	1.02 (Ratio)	0.68	1.02 (Ratio)	742389.12
3/16/2018 22:40:57	R1802079-014	Y_R (360.074 nm)	1.01 (Ratio)	0.68	1.01 (Ratio)	745093.22
3/16/2018 22:40:57	R1802079-014	Zn (213.857 nm)	0.0024 (ppm)	1.81	0.0024 (ppm)	38.7640
3/16/2018 22:44:16	R1802079-014S	Ag (328.068 nm)	0.0504 (ppm)	0.27	0.0504 (ppm)	2958.4853
3/16/2018 22:44:16	R1802079-014S	Al (394.401 nm)	2.0720 (ppm)	0.53	2.0720 (ppm)	21392.5288
3/16/2018 22:44:16	R1802079-014S	As (188.980 nm)	0.0408 (ppm)	12.81	0.0408 (ppm)	32.7091

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:44:16	R1802079-014S	B (249.772 nm)	1.0182 (ppm)	0.58	1.0182 (ppm)	26818.5389
3/16/2018 22:44:16	R1802079-014S	Ba (230.424 nm)	2.1501 (ppm)	0.82	2.1501 (ppm)	63043.8138
3/16/2018 22:44:16	R1802079-014S	Be (313.107 nm)	0.0503 (ppm)	0.54	0.0503 (ppm)	66133.3160
3/16/2018 22:44:16	R1802079-014S	Ca (227.547 nm)	67.0186 (ppm)	0.54	67.0186 (ppm)	3036.5558
3/16/2018 22:44:16	R1802079-014S	Cd (214.439 nm)	0.0520 (ppm)	0.67	0.0520 (ppm)	1094.7430
3/16/2018 22:44:16	R1802079-014S	Co (230.786 nm)	0.5051 (ppm)	0.37	0.5051 (ppm)	4542.0442
3/16/2018 22:44:16	R1802079-014S	Cr (267.716 nm)	0.2070 (ppm)	0.38	0.2070 (ppm)	8754.6309
3/16/2018 22:44:16	R1802079-014S	Cu (327.395 nm)	0.2453 (ppm)	0.72	0.2453 (ppm)	12192.6792
3/16/2018 22:44:16	R1802079-014S	Fe (234.350 nm)	1.1424 (ppm)	0.42	1.1424 (ppm)	11125.7473
3/16/2018 22:44:16	R1802079-014S	K (766.491 nm)	21.1148 (ppm)	0.68	21.1148 (ppm)	50053.0842
3/16/2018 22:44:16	R1802079-014S	Mg (279.078 nm)	19.3597 (ppm)	0.56	19.3597 (ppm)	35302.6398
3/16/2018 22:44:16	R1802079-014S	Mn (257.610 nm)	0.5236 (ppm)	0.51	0.5236 (ppm)	142171.1905
3/16/2018 22:44:16	R1802079-014S	Mo (202.032 nm)	0.5031 (ppm)	0.51	0.5031 (ppm)	4490.9056
3/16/2018 22:44:16	R1802079-014S	Na (588.995 nm)	26.7786 (ppm)	0.73	26.7786 (ppm)	964071.6807
3/16/2018 22:44:16	R1802079-014S	Ni (230.299 nm)	0.4920 (ppm)	0.51	0.4920 (ppm)	3044.6843
3/16/2018 22:44:16	R1802079-014S	Pb (220.353 nm)	0.5070 (ppm)	0.71	0.5070 (ppm)	1020.4711
3/16/2018 22:44:16	R1802079-014S	Sb (217.582 nm)	0.4916 (ppm)	0.86	0.4916 (ppm)	620.5924
3/16/2018 22:44:16	R1802079-014S	Se (196.026 nm)	1.0699 (ppm)	1.17	1.0699 (ppm)	930.7577
3/16/2018 22:44:16	R1802079-014S	Sn (189.925 nm)	5.1333 (ppm)	0.62	5.1333 (ppm)	5821.8413
3/16/2018 22:44:16	R1802079-014S	Sr (216.596 nm)	2.1717 (ppm)	0.41	2.1717 (ppm)	28657.5989
3/16/2018 22:44:16	R1802079-014S	Ti (336.122 nm)	0.4988 (ppm)	0.57	0.4988 (ppm)	83561.0582
3/16/2018 22:44:16	R1802079-014S	Tl (351.923 nm)	1.9338 (ppm)	0.85	1.9338 (ppm)	4304.7904
3/16/2018 22:44:16	R1802079-014S	V (292.401 nm)	0.4983 (ppm)	0.42	0.4983 (ppm)	15322.3251
3/16/2018 22:44:16	R1802079-014S	Y (360.074 nm)	1.01 (Ratio)	0.75	1.01 (Ratio)	735163.66
3/16/2018 22:44:16	R1802079-014S	Y_R (360.074 nm)	1.00 (Ratio)	0.75	1.00 (Ratio)	737730.50
3/16/2018 22:44:16	R1802079-014S	Zn (213.857 nm)	0.4855 (ppm)	0.51	0.4855 (ppm)	13820.6840
3/16/2018 22:47:34	R1802079-014SD	Ag (328.068 nm)	0.0502 (ppm)	0.46	0.0502 (ppm)	2944.4122
3/16/2018 22:47:34	R1802079-014SD	Al (394.401 nm)	2.0654 (ppm)	0.58	2.0654 (ppm)	21325.3506
3/16/2018 22:47:34	R1802079-014SD	As (188.980 nm)	0.0399 (ppm)	8.21	0.0399 (ppm)	31.9206
3/16/2018 22:47:34	R1802079-014SD	B (249.772 nm)	1.0158 (ppm)	0.54	1.0158 (ppm)	26755.8975
3/16/2018 22:47:34	R1802079-014SD	Ba (230.424 nm)	2.1390 (ppm)	0.65	2.1390 (ppm)	62718.6052
3/16/2018 22:47:34	R1802079-014SD	Be (313.107 nm)	0.0501 (ppm)	0.56	0.0501 (ppm)	65960.8907
3/16/2018 22:47:34	R1802079-014SD	Ca (227.547 nm)	66.5395 (ppm)	0.47	66.5395 (ppm)	3014.8834
3/16/2018 22:47:34	R1802079-014SD	Cd (214.439 nm)	0.0519 (ppm)	0.56	0.0519 (ppm)	1090.7960
3/16/2018 22:47:34	R1802079-014SD	Co (230.786 nm)	0.5043 (ppm)	0.72	0.5043 (ppm)	4535.0954
3/16/2018 22:47:34	R1802079-014SD	Cr (267.716 nm)	0.2070 (ppm)	0.55	0.2070 (ppm)	8752.7755
3/16/2018 22:47:34	R1802079-014SD	Cu (327.395 nm)	0.2445 (ppm)	0.72	0.2445 (ppm)	12154.8331
3/16/2018 22:47:34	R1802079-014SD	Fe (234.350 nm)	1.1617 (ppm)	0.59	1.1617 (ppm)	11313.1174
3/16/2018 22:47:34	R1802079-014SD	K (766.491 nm)	21.0740 (ppm)	0.87	21.0740 (ppm)	49956.5078
3/16/2018 22:47:34	R1802079-014SD	Mg (279.078 nm)	19.2433 (ppm)	0.64	19.2433 (ppm)	35090.2556
3/16/2018 22:47:34	R1802079-014SD	Mn (257.610 nm)	0.5222 (ppm)	0.46	0.5222 (ppm)	141793.3354
3/16/2018 22:47:34	R1802079-014SD	Mo (202.032 nm)	0.5012 (ppm)	0.56	0.5012 (ppm)	4474.1841
3/16/2018 22:47:34	R1802079-014SD	Na (588.995 nm)	26.6319 (ppm)	0.72	26.6319 (ppm)	958746.1147
3/16/2018 22:47:34	R1802079-014SD	Ni (230.299 nm)	0.4907 (ppm)	0.58	0.4907 (ppm)	3036.9584
3/16/2018 22:47:34	R1802079-014SD	Pb (220.353 nm)	0.5058 (ppm)	0.73	0.5058 (ppm)	1018.0489
3/16/2018 22:47:34	R1802079-014SD	Sb (217.582 nm)	0.4857 (ppm)	1.72	0.4857 (ppm)	613.1233
3/16/2018 22:47:34	R1802079-014SD	Se (196.026 nm)	1.0687 (ppm)	1.23	1.0687 (ppm)	929.7250
3/16/2018 22:47:34	R1802079-014SD	Sn (189.925 nm)	5.0969 (ppm)	0.41	5.0969 (ppm)	5780.5789
3/16/2018 22:47:34	R1802079-014SD	Sr (216.596 nm)	2.2086 (ppm)	0.59	2.2086 (ppm)	29145.4536
3/16/2018 22:47:34	R1802079-014SD	Ti (336.122 nm)	0.4965 (ppm)	0.57	0.4965 (ppm)	83161.7328
3/16/2018 22:47:34	R1802079-014SD	Tl (351.923 nm)	1.9250 (ppm)	0.45	1.9250 (ppm)	4285.1912

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:47:34	R1802079-014SD	V (292.401 nm)	0.4965 (ppm)	0.58	0.4965 (ppm)	15268.7665
3/16/2018 22:47:34	R1802079-014SD	Y (360.074 nm)	1.00 (Ratio)	0.90	1.00 (Ratio)	732001.30
3/16/2018 22:47:34	R1802079-014SD	Y_R (360.074 nm)	1.00 (Ratio)	0.90	1.00 (Ratio)	734521.79
3/16/2018 22:47:34	R1802079-014SD	Zn (213.857 nm)	0.4858 (ppm)	0.67	0.4858 (ppm)	13830.8014
3/16/2018 22:50:53	R1802079-014A	Ag (328.068 nm)	0.0447 (ppm)	0.88	0.0447 (ppm)	2613.0548
3/16/2018 22:50:53	R1802079-014A	Al (394.401 nm)	1.9181 (ppm)	0.98	1.9181 (ppm)	19812.6873
3/16/2018 22:50:53	R1802079-014A	As (188.980 nm)	0.0347 (ppm)	10.77	0.0347 (ppm)	27.3049
3/16/2018 22:50:53	R1802079-014A	B (249.772 nm)	0.9670 (ppm)	0.82	0.9670 (ppm)	25475.4738
3/16/2018 22:50:53	R1802079-014A	Ba (230.424 nm)	2.0247 (ppm)	0.88	2.0247 (ppm)	59365.6343
3/16/2018 22:50:53	R1802079-014A	Be (313.107 nm)	0.0474 (ppm)	0.85	0.0474 (ppm)	62355.1777
3/16/2018 22:50:53	R1802079-014A	Ca (227.547 nm)	64.1158 (ppm)	0.87	64.1158 (ppm)	2905.2217
3/16/2018 22:50:53	R1802079-014A	Cd (214.439 nm)	0.0485 (ppm)	1.26	0.0485 (ppm)	1020.5681
3/16/2018 22:50:53	R1802079-014A	Co (230.786 nm)	0.4782 (ppm)	0.59	0.4782 (ppm)	4299.7741
3/16/2018 22:50:53	R1802079-014A	Cr (267.716 nm)	0.1955 (ppm)	0.85	0.1955 (ppm)	8266.7635
3/16/2018 22:50:53	R1802079-014A	Cu (327.395 nm)	0.2302 (ppm)	0.81	0.2302 (ppm)	11444.4541
3/16/2018 22:50:53	R1802079-014A	Fe (234.350 nm)	1.0300 (ppm)	0.73	1.0300 (ppm)	10033.4581
3/16/2018 22:50:53	R1802079-014A	K (766.491 nm)	20.0734 (ppm)	1.06	20.0734 (ppm)	47585.9363
3/16/2018 22:50:53	R1802079-014A	Mg (279.078 nm)	18.7716 (ppm)	0.73	18.7716 (ppm)	34229.9399
3/16/2018 22:50:53	R1802079-014A	Mn (257.610 nm)	0.4870 (ppm)	0.82	0.4870 (ppm)	132254.6581
3/16/2018 22:50:53	R1802079-014A	Mo (202.032 nm)	0.4803 (ppm)	0.59	0.4803 (ppm)	4287.7504
3/16/2018 22:50:53	R1802079-014A	Na (588.995 nm)	25.4216 (ppm)	1.01	25.4216 (ppm)	914806.5670
3/16/2018 22:50:53	R1802079-014A	Ni (230.299 nm)	0.4633 (ppm)	1.16	0.4633 (ppm)	2866.1055
3/16/2018 22:50:53	R1802079-014A	Pb (220.353 nm)	0.4768 (ppm)	0.77	0.4768 (ppm)	960.1071
3/16/2018 22:50:53	R1802079-014A	Sb (217.582 nm)	0.4947 (ppm)	1.15	0.4947 (ppm)	624.5402
3/16/2018 22:50:53	R1802079-014A	Se (196.026 nm)	1.0952 (ppm)	1.14	1.0952 (ppm)	952.8579
3/16/2018 22:50:53	R1802079-014A	Sn (189.925 nm)	5.0889 (ppm)	1.12	5.0889 (ppm)	5771.4275
3/16/2018 22:50:53	R1802079-014A	Sr (216.596 nm)	2.0670 (ppm)	0.83	2.0670 (ppm)	27276.4746
3/16/2018 22:50:53	R1802079-014A	Ti (336.122 nm)	0.4781 (ppm)	0.78	0.4781 (ppm)	80067.7012
3/16/2018 22:50:53	R1802079-014A	Tl (351.923 nm)	1.8215 (ppm)	0.75	1.8215 (ppm)	4055.7015
3/16/2018 22:50:53	R1802079-014A	V (292.401 nm)	0.4688 (ppm)	0.83	0.4688 (ppm)	14424.6537
3/16/2018 22:50:53	R1802079-014A	Y (360.074 nm)	1.00 (Ratio)	1.04	1.00 (Ratio)	733930.53
3/16/2018 22:50:53	R1802079-014A	Y_R (360.074 nm)	1.00 (Ratio)	1.04	1.00 (Ratio)	736545.71
3/16/2018 22:50:53	R1802079-014A	Zn (213.857 nm)	0.4620 (ppm)	1.09	0.4620 (ppm)	13149.5182
3/16/2018 22:54:12	R1802079-014L	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.3436
3/16/2018 22:54:12	R1802079-014L	Al (394.401 nm)	0.0219 (ppm)	2.46	0.0219 (ppm)	347.4704
3/16/2018 22:54:12	R1802079-014L	As (188.980 nm)	-0.0026 u (ppm)	67.26	-0.0026 (ppm)	-5.4388
3/16/2018 22:54:12	R1802079-014L	B (249.772 nm)	0.0033 (ppm)	3.21	0.0033 (ppm)	181.8615
3/16/2018 22:54:12	R1802079-014L	Ba (230.424 nm)	0.0217 (ppm)	2.38	0.0217 (ppm)	635.8135
3/16/2018 22:54:12	R1802079-014L	Be (313.107 nm)	0.0000 (ppm)	24.83	0.0000 (ppm)	-537.7194
3/16/2018 22:54:12	R1802079-014L	Ca (227.547 nm)	11.6552 (ppm)	2.99	11.6552 (ppm)	531.6905
3/16/2018 22:54:12	R1802079-014L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.3764
3/16/2018 22:54:12	R1802079-014L	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.4950
3/16/2018 22:54:12	R1802079-014L	Cr (267.716 nm)	0.0002 (ppm)	24.47	0.0002 (ppm)	6.2286
3/16/2018 22:54:12	R1802079-014L	Cu (327.395 nm)	-0.0001 u (ppm)	66.55	-0.0001 (ppm)	9.0877
3/16/2018 22:54:12	R1802079-014L	Fe (234.350 nm)	0.0152 (ppm)	5.08	0.0152 (ppm)	167.3261
3/16/2018 22:54:12	R1802079-014L	K (766.491 nm)	0.2425 (ppm)	3.13	0.2425 (ppm)	607.0200
3/16/2018 22:54:12	R1802079-014L	Mg (279.078 nm)	3.2949 (ppm)	2.00	3.2949 (ppm)	6001.4793
3/16/2018 22:54:12	R1802079-014L	Mn (257.610 nm)	0.0018 (ppm)	0.94	0.0018 (ppm)	487.1769
3/16/2018 22:54:12	R1802079-014L	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	13.1889
3/16/2018 22:54:12	R1802079-014L	Na (588.995 nm)	1.3748 (ppm)	1.96	1.3748 (ppm)	41764.8159
3/16/2018 22:54:12	R1802079-014L	Ni (230.299 nm)	0.0003 (ppm)	92.37	0.0003 (ppm)	-19.7440

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 22:54:12	R1802079-014L	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.3256
3/16/2018 22:54:12	R1802079-014L	Sb (217.582 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.0077
3/16/2018 22:54:12	R1802079-014L	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	0.2133
3/16/2018 22:54:12	R1802079-014L	Sn (189.925 nm)	0.0011 (ppm)	18.62	0.0011 (ppm)	1.8692
3/16/2018 22:54:12	R1802079-014L	Sr (216.596 nm)	0.0287 (ppm)	2.70	0.0287 (ppm)	379.8255
3/16/2018 22:54:12	R1802079-014L	Ti (336.122 nm)	0.0006 (ppm)	12.81	0.0006 (ppm)	480.6241
3/16/2018 22:54:12	R1802079-014L	Ti (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	12.8967
3/16/2018 22:54:12	R1802079-014L	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	134.3081
3/16/2018 22:54:12	R1802079-014L	Y (360.074 nm)	1.03 (Ratio)	0.72	1.03 (Ratio)	749821.14
3/16/2018 22:54:12	R1802079-014L	Y_R (360.074 nm)	1.03 (Ratio)	0.72	1.03 (Ratio)	752709.60
3/16/2018 22:54:12	R1802079-014L	Zn (213.857 nm)	0.0021 (ppm)	32.85	0.0021 (ppm)	29.8269
3/16/2018 22:57:31	Continuing Calibration Verification1	Ag (328.068 nm)	0.4835 (ppm)	1.02	0.4835 (ppm)	29244.2802
3/16/2018 22:57:31	Continuing Calibration Verification1	Al (394.401 nm)	9.6081 (ppm)	1.32	9.6081 (ppm)	98755.5055
3/16/2018 22:57:31	Continuing Calibration Verification1	As (188.980 nm)	0.9747 (ppm)	0.46	0.9747 (ppm)	852.4522
3/16/2018 22:57:31	Continuing Calibration Verification1	B (249.772 nm)	2.4420 (ppm)	0.64	2.4420 (ppm)	64187.8985
3/16/2018 22:57:31	Continuing Calibration Verification1	Ba (230.424 nm)	10.2147 (ppm)	0.81	10.2147 (ppm)	299508.9791
3/16/2018 22:57:31	Continuing Calibration Verification1	Be (313.107 nm)	0.2528 (ppm)	0.82	0.2528 (ppm)	334830.5897
3/16/2018 22:57:31	Continuing Calibration Verification1	Ca (227.547 nm)	24.0976 (ppm)	0.45	24.0976 (ppm)	1094.6362
3/16/2018 22:57:31	Continuing Calibration Verification1	Cd (214.439 nm)	0.5069 (ppm)	0.64	0.5069 (ppm)	10509.5772
3/16/2018 22:57:31	Continuing Calibration Verification1	Co (230.786 nm)	2.5812 (ppm)	0.67	2.5812 (ppm)	23219.9488
3/16/2018 22:57:31	Continuing Calibration Verification1	Cr (267.716 nm)	0.5237 (ppm)	0.68	0.5237 (ppm)	22150.7418
3/16/2018 22:57:31	Continuing Calibration Verification1	Cu (327.395 nm)	1.2104 (ppm)	0.11	1.2104 (ppm)	60105.8024
3/16/2018 22:57:31	Continuing Calibration Verification1	Fe (234.350 nm)	5.0318 (ppm)	0.72	5.0318 (ppm)	48937.1694
3/16/2018 22:57:31	Continuing Calibration Verification1	K (766.491 nm)	24.5257 (ppm)	1.50	24.5257 (ppm)	58133.3733
3/16/2018 22:57:31	Continuing Calibration Verification1	Mg (279.078 nm)	24.8520 (ppm)	0.67	24.8520 (ppm)	45320.2091
3/16/2018 22:57:31	Continuing Calibration Verification1	Mn (257.610 nm)	0.7688 (ppm)	0.77	0.7688 (ppm)	208754.7672
3/16/2018 22:57:31	Continuing Calibration Verification1	Mo (202.032 nm)	2.5090 (ppm)	0.75	2.5090 (ppm)	22355.4261
3/16/2018 22:57:31	Continuing Calibration Verification1	Na (588.995 nm)	24.5047 (ppm)	1.01	24.5047 (ppm)	881518.3032
3/16/2018 22:57:31	Continuing Calibration Verification1	Ni (230.299 nm)	2.0583 (ppm)	0.73	2.0583 (ppm)	12808.0350
3/16/2018 22:57:31	Continuing Calibration Verification1	Pb (220.353 nm)	0.5029 (ppm)	0.69	0.5029 (ppm)	1012.3346
3/16/2018 22:57:31	Continuing Calibration Verification1	Sb (217.582 nm)	4.9427 (ppm)	1.14	4.9427 (ppm)	6239.6409
3/16/2018 22:57:31	Continuing Calibration Verification1	Se (196.026 nm)	0.4954 (ppm)	0.94	0.4954 (ppm)	430.4458
3/16/2018 22:57:31	Continuing Calibration Verification1	Sn (189.925 nm)	5.1371 (ppm)	0.40	5.1371 (ppm)	5826.1186
3/16/2018 22:57:31	Continuing Calibration Verification1	Sr (216.596 nm)	2.5207 (ppm)	0.68	2.5207 (ppm)	33263.3236
3/16/2018 22:57:31	Continuing Calibration Verification1	Ti (336.122 nm)	2.4674 (ppm)	0.69	2.4674 (ppm)	415636.1261
3/16/2018 22:57:31	Continuing Calibration Verification1	Ti (351.923 nm)	0.9918 (ppm)	0.19	0.9918 (ppm)	2215.7472
3/16/2018 22:57:31	Continuing Calibration Verification1	V (292.401 nm)	2.5188 (ppm)	0.79	2.5188 (ppm)	76909.4691
3/16/2018 22:57:31	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	1.51	0.99 (Ratio)	724834.74
3/16/2018 22:57:31	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	1.51	0.99 (Ratio)	727390.71
3/16/2018 22:57:31	Continuing Calibration Verification1	Zn (213.857 nm)	0.9750 (ppm)	0.72	0.9750 (ppm)	27786.0328
3/16/2018 23:00:50	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.4704
3/16/2018 23:00:50	Continuing Calibration Blank1	Al (394.401 nm)	0.0021 (ppm)	19.85	0.0021 (ppm)	144.6938
3/16/2018 23:00:50	Continuing Calibration Blank1	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-2.2604
3/16/2018 23:00:50	Continuing Calibration Blank1	B (249.772 nm)	0.0004 (ppm)	66.60	0.0004 (ppm)	106.1893
3/16/2018 23:00:50	Continuing Calibration Blank1	Ba (230.424 nm)	0.0021 (ppm)	17.28	0.0021 (ppm)	61.2481
3/16/2018 23:00:50	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	9.46	0.0001 (ppm)	-476.1898
3/16/2018 23:00:50	Continuing Calibration Blank1	Ca (227.547 nm)	0.0475 u (ppm)	> 100.00	0.0475 (ppm)	6.5123
3/16/2018 23:00:50	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 (ppm)	59.61	0.0002 (ppm)	21.1516
3/16/2018 23:00:50	Continuing Calibration Blank1	Co (230.786 nm)	0.0005 (ppm)	43.42	0.0005 (ppm)	2.4297
3/16/2018 23:00:50	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 (ppm)	95.59	0.0001 (ppm)	2.8135
3/16/2018 23:00:50	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	15.9792

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:00:50	Continuing Calibration Blank1	Fe (234.350 nm)	0.0017 (ppm)	15.30	0.0017 (ppm)	38.3095
3/16/2018 23:00:50	Continuing Calibration Blank1	K (766.491 nm)	0.0153 (ppm)	83.55	0.0153 (ppm)	68.8816
3/16/2018 23:00:50	Continuing Calibration Blank1	Mg (279.078 nm)	0.0058 (ppm)	33.51	0.0058 (ppm)	2.5622
3/16/2018 23:00:50	Continuing Calibration Blank1	Mn (257.610 nm)	0.0002 (ppm)	13.66	0.0002 (ppm)	45.0728
3/16/2018 23:00:50	Continuing Calibration Blank1	Mo (202.032 nm)	0.0019 (ppm)	9.58	0.0019 (ppm)	27.5676
3/16/2018 23:00:50	Continuing Calibration Blank1	Na (588.995 nm)	0.0173 (ppm)	23.56	0.0173 (ppm)	-7520.6604
3/16/2018 23:00:50	Continuing Calibration Blank1	Ni (230.299 nm)	0.0010 (ppm)	77.82	0.0010 (ppm)	-15.8022
3/16/2018 23:00:50	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.0300
3/16/2018 23:00:50	Continuing Calibration Blank1	Sb (217.582 nm)	0.0023 (ppm)	21.93	0.0023 (ppm)	2.9175
3/16/2018 23:00:50	Continuing Calibration Blank1	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-0.5779
3/16/2018 23:00:50	Continuing Calibration Blank1	Sn (189.925 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	1.2841
3/16/2018 23:00:50	Continuing Calibration Blank1	Sr (216.596 nm)	0.0007 (ppm)	68.17	0.0007 (ppm)	9.3925
3/16/2018 23:00:50	Continuing Calibration Blank1	Ti (336.122 nm)	0.0014 (ppm)	7.00	0.0014 (ppm)	-343.3690
3/16/2018 23:00:50	Continuing Calibration Blank1	Ti (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	17.1349
3/16/2018 23:00:50	Continuing Calibration Blank1	V (292.401 nm)	0.0004 (ppm)	48.15	0.0004 (ppm)	147.6573
3/16/2018 23:00:50	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	1.66	1.02 (Ratio)	744518.19
3/16/2018 23:00:50	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	1.66	1.02 (Ratio)	747337.10
3/16/2018 23:00:50	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	31.86	0.0003 (ppm)	-23.0093
3/16/2018 23:04:10	R1802103-001 20X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.5922
3/16/2018 23:04:10	R1802103-001 20X	Al (394.401 nm)	-0.0012 u (ppm)	40.32	-0.0012 (ppm)	110.6511
3/16/2018 23:04:10	R1802103-001 20X	As (188.980 nm)	-0.0018 u (ppm)	63.98	-0.0018 (ppm)	-4.6852
3/16/2018 23:04:10	R1802103-001 20X	B (249.772 nm)	-0.0003 u (ppm)	5.58	-0.0003 (ppm)	87.8026
3/16/2018 23:04:10	R1802103-001 20X	Ba (230.424 nm)	0.0001 (ppm)	58.97	0.0001 (ppm)	1.7883
3/16/2018 23:04:10	R1802103-001 20X	Be (313.107 nm)	0.0000 (ppm)	94.89	0.0000 (ppm)	-535.4178
3/16/2018 23:04:10	R1802103-001 20X	Ca (227.547 nm)	0.0186 u (ppm)	> 100.00	0.0186 (ppm)	5.2034
3/16/2018 23:04:10	R1802103-001 20X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.8217
3/16/2018 23:04:10	R1802103-001 20X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.5236
3/16/2018 23:04:10	R1802103-001 20X	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	0.1913
3/16/2018 23:04:10	R1802103-001 20X	Cu (327.395 nm)	0.0019 (ppm)	7.51	0.0019 (ppm)	112.5411
3/16/2018 23:04:10	R1802103-001 20X	Fe (234.350 nm)	1.0739 (ppm)	0.64	1.0739 (ppm)	10459.6578
3/16/2018 23:04:10	R1802103-001 20X	K (766.491 nm)	-0.0142 u (ppm)	22.75	-0.0142 (ppm)	-1.1754
3/16/2018 23:04:10	R1802103-001 20X	Mg (279.078 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-5.9490
3/16/2018 23:04:10	R1802103-001 20X	Mn (257.610 nm)	0.0009 (ppm)	0.60	0.0009 (ppm)	237.7701
3/16/2018 23:04:10	R1802103-001 20X	Mo (202.032 nm)	-0.0004 u (ppm)	13.82	-0.0004 (ppm)	6.8666
3/16/2018 23:04:10	R1802103-001 20X	Na (588.995 nm)	0.8433 (ppm)	0.68	0.8433 (ppm)	22469.1125
3/16/2018 23:04:10	R1802103-001 20X	Ni (230.299 nm)	0.0005 (ppm)	47.22	0.0005 (ppm)	-18.8512
3/16/2018 23:04:10	R1802103-001 20X	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.7806
3/16/2018 23:04:10	R1802103-001 20X	Sb (217.582 nm)	0.0016 (ppm)	54.75	0.0016 (ppm)	1.9767
3/16/2018 23:04:10	R1802103-001 20X	Se (196.026 nm)	0.0403 (ppm)	9.21	0.0403 (ppm)	34.0469
3/16/2018 23:04:10	R1802103-001 20X	Sn (189.925 nm)	-0.0014 u (ppm)	27.21	-0.0014 (ppm)	-1.0073
3/16/2018 23:04:10	R1802103-001 20X	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.5704
3/16/2018 23:04:10	R1802103-001 20X	Ti (336.122 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-586.2559
3/16/2018 23:04:10	R1802103-001 20X	Ti (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	17.0397
3/16/2018 23:04:10	R1802103-001 20X	V (292.401 nm)	-0.0004 u (ppm)	75.96	-0.0004 (ppm)	123.2038
3/16/2018 23:04:10	R1802103-001 20X	Y (360.074 nm)	1.03 (Ratio)	0.91	1.03 (Ratio)	751542.34
3/16/2018 23:04:10	R1802103-001 20X	Y_R (360.074 nm)	1.03 (Ratio)	0.92	1.03 (Ratio)	754442.53
3/16/2018 23:04:10	R1802103-001 20X	Zn (213.857 nm)	0.9504 (ppm)	1.06	0.9504 (ppm)	27086.4884
3/16/2018 23:07:29	R1802103-001 5X	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-106.9040
3/16/2018 23:07:29	R1802103-001 5X	Al (394.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	124.2339
3/16/2018 23:07:29	R1802103-001 5X	As (188.980 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-4.6528
3/16/2018 23:07:29	R1802103-001 5X	B (249.772 nm)	0.0009 (ppm)	15.62	0.0009 (ppm)	120.1891

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:07:29	R1802103-001 5X	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	1.4165
3/16/2018 23:07:29	R1802103-001 5X	Be (313.107 nm)	0.0000 (ppm)	85.62	0.0000 (ppm)	-540.7427
3/16/2018 23:07:29	R1802103-001 5X	Ca (227.547 nm)	-0.0246 u (ppm)	> 100.00	-0.0246 (ppm)	3.2475
3/16/2018 23:07:29	R1802103-001 5X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.2914
3/16/2018 23:07:29	R1802103-001 5X	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-4.1882
3/16/2018 23:07:29	R1802103-001 5X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.1627
3/16/2018 23:07:29	R1802103-001 5X	Cu (327.395 nm)	0.0084 (ppm)	1.50	0.0084 (ppm)	431.1652
3/16/2018 23:07:29	R1802103-001 5X	Fe (234.350 nm)	4.2565 (ppm)	0.86	4.2565 (ppm)	41400.2226
3/16/2018 23:07:29	R1802103-001 5X	K (766.491 nm)	-0.0115 u (ppm)	> 100.00	-0.0115 (ppm)	5.3502
3/16/2018 23:07:29	R1802103-001 5X	Mg (279.078 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-9.3271
3/16/2018 23:07:29	R1802103-001 5X	Mn (257.610 nm)	0.0034 (ppm)	0.81	0.0034 (ppm)	920.3507
3/16/2018 23:07:29	R1802103-001 5X	Mo (202.032 nm)	-0.0002 u (ppm)	87.83	-0.0002 (ppm)	8.3698
3/16/2018 23:07:29	R1802103-001 5X	Na (588.995 nm)	3.2870 (ppm)	1.09	3.2870 (ppm)	111190.9440
3/16/2018 23:07:29	R1802103-001 5X	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-20.2889
3/16/2018 23:07:29	R1802103-001 5X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.8275
3/16/2018 23:07:29	R1802103-001 5X	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.2675
3/16/2018 23:07:29	R1802103-001 5X	Se (196.026 nm)	0.1528 (ppm)	2.27	0.1528 (ppm)	132.0645
3/16/2018 23:07:29	R1802103-001 5X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.5179
3/16/2018 23:07:29	R1802103-001 5X	Sr (216.596 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	2.9595
3/16/2018 23:07:29	R1802103-001 5X	Ti (336.122 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-590.1538
3/16/2018 23:07:29	R1802103-001 5X	Tl (351.923 nm)	-0.0017 u (ppm)	90.24	-0.0017 (ppm)	12.7678
3/16/2018 23:07:29	R1802103-001 5X	V (292.401 nm)	-0.0003 u (ppm)	7.53	-0.0003 (ppm)	127.9864
3/16/2018 23:07:29	R1802103-001 5X	Y (360.074 nm)	1.03 (Ratio)	1.15	1.03 (Ratio)	751097.96
3/16/2018 23:07:29	R1802103-001 5X	Y_R (360.074 nm)	1.03 (Ratio)	1.16	1.03 (Ratio)	753911.47
3/16/2018 23:07:29	R1802103-001 5X	Zn (213.857 nm)	3.6993 u (ppm)	1.02	3.6993 (ppm)	105513.9462
3/16/2018 23:10:49	R1802103-001D 5X	Ag (328.068 nm)	0.0000 u (ppm)	85.33	0.0000 (ppm)	-103.6998
3/16/2018 23:10:49	R1802103-001D 5X	Al (394.401 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	117.3390
3/16/2018 23:10:49	R1802103-001D 5X	As (188.980 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-4.2259
3/16/2018 23:10:49	R1802103-001D 5X	B (249.772 nm)	0.0006 (ppm)	1.17	0.0006 (ppm)	112.9245
3/16/2018 23:10:49	R1802103-001D 5X	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.5876
3/16/2018 23:10:49	R1802103-001D 5X	Be (313.107 nm)	0.0000 (ppm)	23.50	0.0000 (ppm)	-537.8828
3/16/2018 23:10:49	R1802103-001D 5X	Ca (227.547 nm)	-0.0402 u (ppm)	47.05	-0.0402 (ppm)	2.5406
3/16/2018 23:10:49	R1802103-001D 5X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.5598
3/16/2018 23:10:49	R1802103-001D 5X	Co (230.786 nm)	-0.0002 u (ppm)	66.97	-0.0002 (ppm)	-3.5623
3/16/2018 23:10:49	R1802103-001D 5X	Cr (267.716 nm)	-0.0001 u (ppm)	83.18	-0.0001 (ppm)	-5.9486
3/16/2018 23:10:49	R1802103-001D 5X	Cu (327.395 nm)	0.0082 (ppm)	1.96	0.0082 (ppm)	424.2262
3/16/2018 23:10:49	R1802103-001D 5X	Fe (234.350 nm)	4.2345 (ppm)	0.62	4.2345 (ppm)	41185.8195
3/16/2018 23:10:49	R1802103-001D 5X	K (766.491 nm)	-0.0178 u (ppm)	48.81	-0.0178 (ppm)	-9.6716
3/16/2018 23:10:49	R1802103-001D 5X	Mg (279.078 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-8.8880
3/16/2018 23:10:49	R1802103-001D 5X	Mn (257.610 nm)	0.0033 (ppm)	0.64	0.0033 (ppm)	907.0541
3/16/2018 23:10:49	R1802103-001D 5X	Mo (202.032 nm)	-0.0005 u (ppm)	53.34	-0.0005 (ppm)	6.0846
3/16/2018 23:10:49	R1802103-001D 5X	Na (588.995 nm)	3.2701 (ppm)	0.34	3.2701 (ppm)	110574.2306
3/16/2018 23:10:49	R1802103-001D 5X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-22.7267
3/16/2018 23:10:49	R1802103-001D 5X	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.9224
3/16/2018 23:10:49	R1802103-001D 5X	Sb (217.582 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	1.9239
3/16/2018 23:10:49	R1802103-001D 5X	Se (196.026 nm)	0.1510 (ppm)	2.18	0.1510 (ppm)	130.4807
3/16/2018 23:10:49	R1802103-001D 5X	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.5503
3/16/2018 23:10:49	R1802103-001D 5X	Sr (216.596 nm)	0.0002 (ppm)	88.88	0.0002 (ppm)	2.7162
3/16/2018 23:10:49	R1802103-001D 5X	Ti (336.122 nm)	-0.0001 u (ppm)	78.75	-0.0001 (ppm)	-597.4976
3/16/2018 23:10:49	R1802103-001D 5X	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	15.9228
3/16/2018 23:10:49	R1802103-001D 5X	V (292.401 nm)	-0.0005 u (ppm)	38.99	-0.0005 (ppm)	120.2756

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:10:49	R1802103-001D 5X	Y (360.074 nm)	1.03 (Ratio)	0.58	1.03 (Ratio)	756257.05
3/16/2018 23:10:49	R1802103-001D 5X	Y_R (360.074 nm)	1.03 (Ratio)	0.58	1.03 (Ratio)	759158.50
3/16/2018 23:10:49	R1802103-001D 5X	Zn (213.857 nm)	3.6679 u (ppm)	0.65	3.6679 (ppm)	104617.8904
3/16/2018 23:14:08	R1802103-001	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-105.5513
3/16/2018 23:14:08	R1802103-001	Al (394.401 nm)	0.0010 (ppm)	62.63	0.0010 (ppm)	132.6428
3/16/2018 23:14:08	R1802103-001	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-3.7792
3/16/2018 23:14:08	R1802103-001	B (249.772 nm)	0.0088 (ppm)	2.23	0.0088 (ppm)	327.2034
3/16/2018 23:14:08	R1802103-001	Ba (230.424 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2867
3/16/2018 23:14:08	R1802103-001	Be (313.107 nm)	0.0000 (ppm)	48.14	0.0000 (ppm)	-547.2647
3/16/2018 23:14:08	R1802103-001	Ca (227.547 nm)	-0.3603 u (ppm)	8.37	-0.3603 (ppm)	-11.9419
3/16/2018 23:14:08	R1802103-001	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	19.3814
3/16/2018 23:14:08	R1802103-001	Co (230.786 nm)	-0.0007 u (ppm)	13.38	-0.0007 (ppm)	-8.6536
3/16/2018 23:14:08	R1802103-001	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.3194
3/16/2018 23:14:08	R1802103-001	Cu (327.395 nm)	0.0424 (ppm)	0.45	0.0424 (ppm)	2122.9988
3/16/2018 23:14:08	R1802103-001	Fe (234.350 nm)	20.8609 u (ppm)	0.27	20.8609 (ppm)	202822.3242
3/16/2018 23:14:08	R1802103-001	K (766.491 nm)	-0.0079 u (ppm)	89.55	-0.0079 (ppm)	13.9090
3/16/2018 23:14:08	R1802103-001	Mg (279.078 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-7.7776
3/16/2018 23:14:08	R1802103-001	Mn (257.610 nm)	0.0166 (ppm)	0.41	0.0166 (ppm)	4504.5417
3/16/2018 23:14:08	R1802103-001	Mo (202.032 nm)	-0.0002 u (ppm)	79.72	-0.0002 (ppm)	8.4089
3/16/2018 23:14:08	R1802103-001	Na (588.995 nm)	16.0020 (ppm)	0.50	16.0020 (ppm)	572817.6925
3/16/2018 23:14:08	R1802103-001	Ni (230.299 nm)	0.0005 (ppm)	79.12	0.0005 (ppm)	-18.8158
3/16/2018 23:14:08	R1802103-001	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.2601
3/16/2018 23:14:08	R1802103-001	Sb (217.582 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.1141
3/16/2018 23:14:08	R1802103-001	Se (196.026 nm)	0.7966 (ppm)	0.94	0.7966 (ppm)	692.7139
3/16/2018 23:14:08	R1802103-001	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.1653
3/16/2018 23:14:08	R1802103-001	Sr (216.596 nm)	0.0018 (ppm)	10.43	0.0018 (ppm)	24.9215
3/16/2018 23:14:08	R1802103-001	Ti (336.122 nm)	0.0006 (ppm)	4.18	0.0006 (ppm)	-490.8648
3/16/2018 23:14:08	R1802103-001	Tl (351.923 nm)	-0.0017 u (ppm)	98.20	-0.0017 (ppm)	12.7840
3/16/2018 23:14:08	R1802103-001	V (292.401 nm)	0.0003 (ppm)	47.19	0.0003 (ppm)	144.5515
3/16/2018 23:14:08	R1802103-001	Y (360.074 nm)	1.04 (Ratio)	0.56	1.04 (Ratio)	759299.31
3/16/2018 23:14:08	R1802103-001	Y_R (360.074 nm)	1.04 (Ratio)	0.56	1.04 (Ratio)	762148.85
3/16/2018 23:14:08	R1802103-001	Zn (213.857 nm)	17.5460 u (ppm)	0.61	17.5460 (ppm)	500567.7883
3/16/2018 23:17:27	R1802110-001	Ag (328.068 nm)	-0.0001 u (ppm)	16.95	-0.0001 (ppm)	-104.6468
3/16/2018 23:17:27	R1802110-001	Al (394.401 nm)	0.0017 (ppm)	22.72	0.0017 (ppm)	139.8619
3/16/2018 23:17:27	R1802110-001	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-3.9033
3/16/2018 23:17:27	R1802110-001	B (249.772 nm)	0.0093 (ppm)	2.07	0.0093 (ppm)	340.9343
3/16/2018 23:17:27	R1802110-001	Ba (230.424 nm)	0.0001 (ppm)	77.17	0.0001 (ppm)	2.1567
3/16/2018 23:17:27	R1802110-001	Be (313.107 nm)	0.0000 (ppm)	43.77	0.0000 (ppm)	-540.5946
3/16/2018 23:17:27	R1802110-001	Ca (227.547 nm)	0.0615 (ppm)	39.62	0.0615 (ppm)	7.1450
3/16/2018 23:17:27	R1802110-001	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.1190
3/16/2018 23:17:27	R1802110-001	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.3700
3/16/2018 23:17:27	R1802110-001	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	3.7836
3/16/2018 23:17:27	R1802110-001	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.4316
3/16/2018 23:17:27	R1802110-001	Fe (234.350 nm)	0.0076 (ppm)	24.18	0.0076 (ppm)	93.4359
3/16/2018 23:17:27	R1802110-001	K (766.491 nm)	-0.0197 u (ppm)	26.24	-0.0197 (ppm)	-14.0916
3/16/2018 23:17:27	R1802110-001	Mg (279.078 nm)	0.0366 (ppm)	1.97	0.0366 (ppm)	58.6166
3/16/2018 23:17:27	R1802110-001	Mn (257.610 nm)	0.0002 (ppm)	4.50	0.0002 (ppm)	57.8258
3/16/2018 23:17:27	R1802110-001	Mo (202.032 nm)	-0.0005 u (ppm)	27.71	-0.0005 (ppm)	5.4204
3/16/2018 23:17:27	R1802110-001	Ne (588.995 nm)	0.0579 (ppm)	3.58	0.0579 (ppm)	-6045.5556
3/16/2018 23:17:27	R1802110-001	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-19.1511
3/16/2018 23:17:27	R1802110-001	Pb (220.353 nm)	0.0010 (ppm)	> 100.00	0.0010 (ppm)	8.0456

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:17:27	R1802110-001	Sb (217.582 nm)	0.0014 (ppm)	8.40	0.0014 (ppm)	1.7608
3/16/2018 23:17:27	R1802110-001	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.8401
3/16/2018 23:17:27	R1802110-001	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.2093
3/16/2018 23:17:27	R1802110-001	Sr (216.596 nm)	0.0024 (ppm)	1.37	0.0024 (ppm)	32.4090
3/16/2018 23:17:27	R1802110-001	Ti (336.122 nm)	0.0005 (ppm)	12.83	0.0005 (ppm)	-510.7671
3/16/2018 23:17:27	R1802110-001	Tl (351.923 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	12.0982
3/16/2018 23:17:27	R1802110-001	V (292.401 nm)	-0.0002 u (ppm)	37.74	-0.0002 (ppm)	129.6319
3/16/2018 23:17:27	R1802110-001	Y (360.074 nm)	1.04 (Ratio)	0.71	1.04 (Ratio)	756935.17
3/16/2018 23:17:27	R1802110-001	Y_R (360.074 nm)	1.03 (Ratio)	0.71	1.03 (Ratio)	759836.57
3/16/2018 23:17:27	R1802110-001	Zn (213.857 nm)	0.0073 (ppm)	18.32	0.0073 (ppm)	176.9634
3/16/2018 23:20:45	R1802110-002	Ag (328.068 nm)	0.0001 (ppm)	89.90	0.0001 (ppm)	-93.2492
3/16/2018 23:20:45	R1802110-002	Al (394.401 nm)	0.0268 (ppm)	2.46	0.0268 (ppm)	397.8350
3/16/2018 23:20:45	R1802110-002	As (188.980 nm)	0.0008 (ppm)	94.02	0.0008 (ppm)	-2.4651
3/16/2018 23:20:45	R1802110-002	B (249.772 nm)	0.0700 (ppm)	0.43	0.0700 (ppm)	1932.8780
3/16/2018 23:20:45	R1802110-002	Ba (230.424 nm)	0.0248 (ppm)	0.67	0.0248 (ppm)	725.5110
3/16/2018 23:20:45	R1802110-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-554.0792
3/16/2018 23:20:45	R1802110-002	Ca (227.547 nm)	101.8975 o (ppm)	0.31	101.8975 (ppm)	4614.6229
3/16/2018 23:20:45	R1802110-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.2621
3/16/2018 23:20:45	R1802110-002	Co (230.786 nm)	0.0004 (ppm)	32.20	0.0004 (ppm)	1.4652
3/16/2018 23:20:45	R1802110-002	Cr (267.716 nm)	0.0002 (ppm)	90.36	0.0002 (ppm)	4.0808
3/16/2018 23:20:45	R1802110-002	Cu (327.395 nm)	0.0022 (ppm)	9.34	0.0022 (ppm)	123.5858
3/16/2018 23:20:45	R1802110-002	Fe (234.350 nm)	0.0009 (ppm)	21.24	0.0009 (ppm)	28.6727
3/16/2018 23:20:45	R1802110-002	K (766.491 nm)	3.6530 (ppm)	0.43	3.6530 (ppm)	8686.3894
3/16/2018 23:20:45	R1802110-002	Mg (279.078 nm)	66.7185 o (ppm)	0.27	66.7185 (ppm)	121681.6527
3/16/2018 23:20:45	R1802110-002	Mn (257.610 nm)	0.0014 (ppm)	1.20	0.0014 (ppm)	387.1023
3/16/2018 23:20:45	R1802110-002	Mo (202.032 nm)	0.0069 (ppm)	3.73	0.0069 (ppm)	72.0004
3/16/2018 23:20:45	R1802110-002	Na (588.995 nm)	44.4260 (ppm)	0.20	44.4260 (ppm)	1604778.5093
3/16/2018 23:20:45	R1802110-002	Ni (230.299 nm)	-0.0096 u (ppm)	5.04	-0.0096 (ppm)	-81.9073
3/16/2018 23:20:45	R1802110-002	Pb (220.353 nm)	-0.0026 u (ppm)	73.65	-0.0026 (ppm)	0.8291
3/16/2018 23:20:45	R1802110-002	Sb (217.582 nm)	-0.0032 u (ppm)	60.35	-0.0032 (ppm)	-4.0551
3/16/2018 23:20:45	R1802110-002	Se (196.026 nm)	0.0024 (ppm)	72.56	0.0024 (ppm)	1.0601
3/16/2018 23:20:45	R1802110-002	Sn (189.925 nm)	-0.0032 u (ppm)	74.80	-0.0032 (ppm)	-2.9978
3/16/2018 23:20:45	R1802110-002	Sr (216.596 nm)	2.5885 (ppm)	0.86	2.5885 (ppm)	34158.8723
3/16/2018 23:20:45	R1802110-002	Ti (336.122 nm)	0.0012 (ppm)	4.19	0.0012 (ppm)	-392.1404
3/16/2018 23:20:45	R1802110-002	Tl (351.923 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	11.2698
3/16/2018 23:20:45	R1802110-002	V (292.401 nm)	0.0042 (ppm)	3.20	0.0042 (ppm)	264.7852
3/16/2018 23:20:45	R1802110-002	Y (360.074 nm)	0.99 (Ratio)	0.33	0.99 (Ratio)	724539.52
3/16/2018 23:20:45	R1802110-002	Y_R (360.074 nm)	0.99 (Ratio)	0.33	0.99 (Ratio)	727041.24
3/16/2018 23:20:45	R1802110-002	Zn (213.857 nm)	0.0167 (ppm)	2.23	0.0167 (ppm)	447.1050
3/16/2018 23:24:04	R1802110-007	Ag (328.068 nm)	0.0002 (ppm)	28.17	0.0002 (ppm)	-88.2375
3/16/2018 23:24:04	R1802110-007	Al (394.401 nm)	0.0267 (ppm)	5.68	0.0267 (ppm)	396.6001
3/16/2018 23:24:04	R1802110-007	As (188.980 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	-0.7702
3/16/2018 23:24:04	R1802110-007	B (249.772 nm)	0.0690 (ppm)	0.32	0.0690 (ppm)	1907.7688
3/16/2018 23:24:04	R1802110-007	Ba (230.424 nm)	0.0197 (ppm)	0.61	0.0197 (ppm)	575.9829
3/16/2018 23:24:04	R1802110-007	Be (313.107 nm)	0.0000 (ppm)	76.67	0.0000 (ppm)	-555.6934
3/16/2018 23:24:04	R1802110-007	Ca (227.547 nm)	111.5394 o (ppm)	0.26	111.5394 (ppm)	5050.8634
3/16/2018 23:24:04	R1802110-007	Cd (214.439 nm)	-0.0002 u (ppm)	12.27	-0.0002 (ppm)	12.5995
3/16/2018 23:24:04	R1802110-007	Co (230.786 nm)	-0.0005 u (ppm)	33.82	-0.0005 (ppm)	-6.6062
3/16/2018 23:24:04	R1802110-007	Cr (267.716 nm)	0.0029 (ppm)	1.39	0.0029 (ppm)	121.4247
3/16/2018 23:24:04	R1802110-007	Cu (327.395 nm)	0.0005 (ppm)	9.75	0.0005 (ppm)	42.2033
3/16/2018 23:24:04	R1802110-007	Fe (234.350 nm)	0.0165 (ppm)	2.34	0.0165 (ppm)	180.4756



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:24:04	R1802110-007	K (766.491 nm)	4.0459 (ppm)	0.42	4.0459 (ppm)	9617.1496
3/16/2018 23:24:04	R1802110-007	Mg (279.078 nm)	66.9649 (ppm)	0.28	66.9649 (ppm)	122130.9970
3/16/2018 23:24:04	R1802110-007	Mn (257.610 nm)	0.0003 (ppm)	5.37	0.0003 (ppm)	79.6033
3/16/2018 23:24:04	R1802110-007	Mo (202.032 nm)	0.0079 (ppm)	3.09	0.0079 (ppm)	81.0953
3/16/2018 23:24:04	R1802110-007	Na (588.995 nm)	41.1084 (ppm)	0.34	41.1084 (ppm)	1484329.4094
3/16/2018 23:24:04	R1802110-007	Ni (230.299 nm)	-0.0097 (ppm)	6.24	-0.0097 (ppm)	-82.4025
3/16/2018 23:24:04	R1802110-007	Pb (220.353 nm)	-0.0028 (ppm)	75.55	-0.0028 (ppm)	0.5174
3/16/2018 23:24:04	R1802110-007	Sb (217.582 nm)	-0.0008 (ppm)	> 100.00	-0.0008 (ppm)	-1.0421
3/16/2018 23:24:04	R1802110-007	Se (196.026 nm)	0.0023 (ppm)	14.12	0.0023 (ppm)	0.9511
3/16/2018 23:24:04	R1802110-007	Sn (189.925 nm)	-0.0025 (ppm)	28.32	-0.0025 (ppm)	-2.1565
3/16/2018 23:24:04	R1802110-007	Sr (216.596 nm)	2.1605 (ppm)	0.76	2.1605 (ppm)	28510.6082
3/16/2018 23:24:04	R1802110-007	Ti (336.122 nm)	0.0011 (ppm)	2.89	0.0011 (ppm)	-398.6888
3/16/2018 23:24:04	R1802110-007	Tl (351.923 nm)	-0.0016 (ppm)	> 100.00	-0.0016 (ppm)	13.0155
3/16/2018 23:24:04	R1802110-007	V (292.401 nm)	0.0020 (ppm)	4.45	0.0020 (ppm)	195.2935
3/16/2018 23:24:04	R1802110-007	Y (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	725078.22
3/16/2018 23:24:04	R1802110-007	Y_R (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	727613.99
3/16/2018 23:24:04	R1802110-007	Zn (213.857 nm)	0.0038 (ppm)	4.79	0.0038 (ppm)	79.3283
3/16/2018 23:27:23	R1802168-001	Ag (328.068 nm)	0.0000 (ppm)	76.33	0.0000 (ppm)	-98.5040
3/16/2018 23:27:23	R1802168-001	Al (394.401 nm)	0.0367 (ppm)	1.80	0.0367 (ppm)	499.7764
3/16/2018 23:27:23	R1802168-001	As (188.980 nm)	-0.0003 (ppm)	> 100.00	-0.0003 (ppm)	-3.3691
3/16/2018 23:27:23	R1802168-001	B (249.772 nm)	0.1125 (ppm)	0.20	0.1125 (ppm)	3048.1892
3/16/2018 23:27:23	R1802168-001	Ba (230.424 nm)	0.0819 (ppm)	0.46	0.0819 (ppm)	2401.2640
3/16/2018 23:27:23	R1802168-001	Be (313.107 nm)	0.0000 (ppm)	18.44	0.0000 (ppm)	-538.1487
3/16/2018 23:27:23	R1802168-001	Ca (227.547 nm)	161.5097 (ppm)	0.47	161.5097 (ppm)	7311.7252
3/16/2018 23:27:23	R1802168-001	Cd (214.439 nm)	-0.0002 (ppm)	18.74	-0.0002 (ppm)	13.1416
3/16/2018 23:27:23	R1802168-001	Co (230.786 nm)	0.0003 (ppm)	39.37	0.0003 (ppm)	0.3681
3/16/2018 23:27:23	R1802168-001	Cr (267.716 nm)	-0.0006 (ppm)	4.67	-0.0006 (ppm)	-26.1813
3/16/2018 23:27:23	R1802168-001	Cu (327.395 nm)	0.0022 (ppm)	10.09	0.0022 (ppm)	125.3819
3/16/2018 23:27:23	R1802168-001	Fe (234.350 nm)	0.0107 (ppm)	0.84	0.0107 (ppm)	123.8459
3/16/2018 23:27:23	R1802168-001	K (766.491 nm)	4.4674 (ppm)	0.44	4.4674 (ppm)	10615.6808
3/16/2018 23:27:23	R1802168-001	Mg (279.078 nm)	45.4675 (ppm)	0.36	45.4675 (ppm)	82921.2627
3/16/2018 23:27:23	R1802168-001	Mn (257.610 nm)	1.0991 (ppm)	0.28	1.0991 (ppm)	298453.7379
3/16/2018 23:27:23	R1802168-001	Mo (202.032 nm)	-0.0004 (ppm)	> 100.00	-0.0004 (ppm)	7.1029
3/16/2018 23:27:23	R1802168-001	Na (588.995 nm)	9.3734 (ppm)	0.58	9.3734 (ppm)	332161.7899
3/16/2018 23:27:23	R1802168-001	Ni (230.299 nm)	-0.0042 (ppm)	17.67	-0.0042 (ppm)	-47.7386
3/16/2018 23:27:23	R1802168-001	Pb (220.353 nm)	-0.0017 (ppm)	38.49	-0.0017 (ppm)	2.6486
3/16/2018 23:27:23	R1802168-001	Sb (217.582 nm)	-0.0021 (ppm)	79.28	-0.0021 (ppm)	-2.7115
3/16/2018 23:27:23	R1802168-001	Se (196.026 nm)	-0.0010 (ppm)	98.91	-0.0010 (ppm)	-1.9469
3/16/2018 23:27:23	R1802168-001	Sn (189.925 nm)	-0.0018 (ppm)	> 100.00	-0.0018 (ppm)	-1.4044
3/16/2018 23:27:23	R1802168-001	Sr (216.596 nm)	0.6876 (ppm)	1.01	0.6876 (ppm)	9074.3861
3/16/2018 23:27:23	R1802168-001	Ti (336.122 nm)	0.0017 (ppm)	1.42	0.0017 (ppm)	-304.7072
3/16/2018 23:27:23	R1802168-001	Tl (351.923 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	18.3229
3/16/2018 23:27:23	R1802168-001	V (292.401 nm)	0.0003 (ppm)	47.19	0.0003 (ppm)	145.4293
3/16/2018 23:27:23	R1802168-001	Y (360.074 nm)	1.00 (Ratio)	0.57	1.00 (Ratio)	727510.80
3/16/2018 23:27:23	R1802168-001	Y_R (360.074 nm)	0.99 (Ratio)	0.57	0.99 (Ratio)	730129.44
3/16/2018 23:27:23	R1802168-001	Zn (213.857 nm)	0.0031 (ppm)	2.02	0.0031 (ppm)	58.8609
3/16/2018 23:30:42	R1802168-002	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-92.6626
3/16/2018 23:30:42	R1802168-002	Al (394.401 nm)	0.0735 (ppm)	1.85	0.0735 (ppm)	877.2846
3/16/2018 23:30:42	R1802168-002	As (188.980 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-2.9707
3/16/2018 23:30:42	R1802168-002	B (249.772 nm)	0.0597 (ppm)	0.81	0.0597 (ppm)	1663.3596
3/16/2018 23:30:42	R1802168-002	Ba (230.424 nm)	0.0568 (ppm)	1.00	0.0568 (ppm)	1663.4872

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:30:42	R1802168-002	Be (313.107 nm)	0.0000 (ppm)	23.62	0.0000 (ppm)	-545.2301
3/16/2018 23:30:42	R1802168-002	Ca (227.547 nm)	134.4610 o (ppm)	0.74	134.4610 (ppm)	6087.9280
3/16/2018 23:30:42	R1802168-002	Cd (214.439 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	13.9507
3/16/2018 23:30:42	R1802168-002	Co (230.786 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-4.8190
3/16/2018 23:30:42	R1802168-002	Cr (267.716 nm)	0.0004 (ppm)	27.76	0.0004 (ppm)	16.2676
3/16/2018 23:30:42	R1802168-002	Cu (327.395 nm)	0.0021 (ppm)	8.10	0.0021 (ppm)	121.6775
3/16/2018 23:30:42	R1802168-002	Fe (234.350 nm)	0.0523 (ppm)	0.56	0.0523 (ppm)	527.7932
3/16/2018 23:30:42	R1802168-002	K (766.491 nm)	7.2926 (ppm)	0.82	7.2926 (ppm)	17308.5929
3/16/2018 23:30:42	R1802168-002	Mg (279.078 nm)	34.1914 (ppm)	0.74	34.1914 (ppm)	62354.6029
3/16/2018 23:30:42	R1802168-002	Mn (257.610 nm)	0.0038 (ppm)	1.44	0.0038 (ppm)	1041.1791
3/16/2018 23:30:42	R1802168-002	Mo (202.032 nm)	-0.0009 u (ppm)	18.78	-0.0009 (ppm)	2.3021
3/16/2018 23:30:42	R1802168-002	Na (588.995 nm)	7.8810 (ppm)	0.96	7.8810 (ppm)	277979.7760
3/16/2018 23:30:42	R1802168-002	Ni (230.299 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-28.2956
3/16/2018 23:30:42	R1802168-002	Pb (220.353 nm)	-0.0014 u (ppm)	96.62	-0.0014 (ppm)	3.2753
3/16/2018 23:30:42	R1802168-002	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.3510
3/16/2018 23:30:42	R1802168-002	Se (196.026 nm)	0.0016 (ppm)	75.70	0.0016 (ppm)	0.3852
3/16/2018 23:30:42	R1802168-002	Sn (189.925 nm)	-0.0026 u (ppm)	71.41	-0.0026 (ppm)	-2.3541
3/16/2018 23:30:42	R1802168-002	Sr (216.596 nm)	0.4473 (ppm)	0.51	0.4473 (ppm)	5902.5559
3/16/2018 23:30:42	R1802168-002	Ti (336.122 nm)	0.0029 (ppm)	2.17	0.0029 (ppm)	-100.1179
3/16/2018 23:30:42	R1802168-002	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	17.2367
3/16/2018 23:30:42	R1802168-002	V (292.401 nm)	0.0003 (ppm)	49.03	0.0003 (ppm)	145.4408
3/16/2018 23:30:42	R1802168-002	Y (360.074 nm)	0.99 (Ratio)	0.90	0.99 (Ratio)	726794.04
3/16/2018 23:30:42	R1802168-002	Y_R (360.074 nm)	0.99 (Ratio)	0.90	0.99 (Ratio)	729555.45
3/16/2018 23:30:42	R1802168-002	Zn (213.857 nm)	0.0027 (ppm)	1.91	0.0027 (ppm)	47.6400
3/16/2018 23:34:00	R1802168-003	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-106.5147
3/16/2018 23:34:00	R1802168-003	Al (394.401 nm)	0.0354 (ppm)	2.59	0.0354 (ppm)	485.9258
3/16/2018 23:34:00	R1802168-003	As (188.980 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-4.3822
3/16/2018 23:34:00	R1802168-003	B (249.772 nm)	0.0127 (ppm)	0.73	0.0127 (ppm)	429.9002
3/16/2018 23:34:00	R1802168-003	Ba (230.424 nm)	0.0185 (ppm)	0.27	0.0185 (ppm)	541.7476
3/16/2018 23:34:00	R1802168-003	Be (313.107 nm)	0.0000 (ppm)	58.00	0.0000 (ppm)	-544.6781
3/16/2018 23:34:00	R1802168-003	Ca (227.547 nm)	67.4167 o (ppm)	0.43	67.4167 (ppm)	3054.5700
3/16/2018 23:34:00	R1802168-003	Cd (214.439 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	14.1316
3/16/2018 23:34:00	R1802168-003	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.4254
3/16/2018 23:34:00	R1802168-003	Cr (267.716 nm)	0.0004 (ppm)	51.62	0.0004 (ppm)	14.2395
3/16/2018 23:34:00	R1802168-003	Cu (327.395 nm)	0.0012 (ppm)	8.39	0.0012 (ppm)	74.3285
3/16/2018 23:34:00	R1802168-003	Fe (234.350 nm)	0.0203 (ppm)	2.66	0.0203 (ppm)	216.9918
3/16/2018 23:34:00	R1802168-003	K (766.491 nm)	1.5734 (ppm)	0.81	1.5734 (ppm)	3759.8260
3/16/2018 23:34:00	R1802168-003	Mg (279.078 nm)	13.9258 (ppm)	0.51	13.9258 (ppm)	25391.4982
3/16/2018 23:34:00	R1802168-003	Mn (257.610 nm)	0.0080 (ppm)	1.27	0.0080 (ppm)	2181.9373
3/16/2018 23:34:00	R1802168-003	Mo (202.032 nm)	0.0004 (ppm)	53.83	0.0004 (ppm)	14.2396
3/16/2018 23:34:00	R1802168-003	Na (588.995 nm)	6.5695 (ppm)	0.61	6.5695 (ppm)	230362.6053
3/16/2018 23:34:00	R1802168-003	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-23.1320
3/16/2018 23:34:00	R1802168-003	Pb (220.353 nm)	-0.0023 u (ppm)	65.11	-0.0023 (ppm)	1.5192
3/16/2018 23:34:00	R1802168-003	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.7328
3/16/2018 23:34:00	R1802168-003	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.5160
3/16/2018 23:34:00	R1802168-003	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.3329
3/16/2018 23:34:00	R1802168-003	Sr (216.596 nm)	0.2445 (ppm)	0.50	0.2445 (ppm)	3226.8549
3/16/2018 23:34:00	R1802168-003	Ti (336.122 nm)	0.0011 (ppm)	3.67	0.0011 (ppm)	-397.4595
3/16/2018 23:34:00	R1802168-003	Tl (351.923 nm)	-0.0031 u (ppm)	89.20	-0.0031 (ppm)	9.5601
3/16/2018 23:34:00	R1802168-003	V (292.401 nm)	0.0002 (ppm)	82.46	0.0002 (ppm)	142.0118
3/16/2018 23:34:00	R1802168-003	Y (360.074 nm)	1.01 (Ratio)	1.01	1.01 (Ratio)	737261.63

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:34:00	R1802168-003	Y_R (360.074 nm)	1.01 (Ratio)	1.00	1.01 (Ratio)	740204.42
3/16/2018 23:34:00	R1802168-003	Zn (213.857 nm)	0.0022 (ppm)	4.00	0.0022 (ppm)	33.7938
3/16/2018 23:37:19	Continuing Calibration Verification1	Ag (328.068 nm)	0.4881 (ppm)	2.73	0.4881 (ppm)	29518.9052
3/16/2018 23:37:19	Continuing Calibration Verification1	Al (394.401 nm)	9.7068 (ppm)	3.14	9.7068 (ppm)	99768.8960
3/16/2018 23:37:19	Continuing Calibration Verification1	As (188.980 nm)	0.9903 (ppm)	3.10	0.9903 (ppm)	866.1569
3/16/2018 23:37:19	Continuing Calibration Verification1	B (249.772 nm)	2.4695 (ppm)	2.61	2.4695 (ppm)	64909.7198
3/16/2018 23:37:19	Continuing Calibration Verification1	Ba (230.424 nm)	10.3285 (ppm)	3.35	10.3285 (ppm)	302845.2268
3/16/2018 23:37:19	Continuing Calibration Verification1	Be (313.107 nm)	0.2556 (ppm)	2.67	0.2556 (ppm)	338548.7982
3/16/2018 23:37:19	Continuing Calibration Verification1	Ca (227.547 nm)	24.3765 (ppm)	2.84	24.3765 (ppm)	1107.2526
3/16/2018 23:37:19	Continuing Calibration Verification1	Cd (214.439 nm)	0.5131 (ppm)	2.71	0.5131 (ppm)	10637.3183
3/16/2018 23:37:19	Continuing Calibration Verification1	Co (230.786 nm)	2.6083 (ppm)	2.69	2.6083 (ppm)	23464.4309
3/16/2018 23:37:19	Continuing Calibration Verification1	Cr (267.716 nm)	0.5277 (ppm)	2.76	0.5277 (ppm)	22319.0577
3/16/2018 23:37:19	Continuing Calibration Verification1	Cu (327.395 nm)	1.2346 (ppm)	2.51	1.2346 (ppm)	61310.0671
3/16/2018 23:37:19	Continuing Calibration Verification1	Fe (234.350 nm)	5.0850 (ppm)	2.75	5.0850 (ppm)	49454.4713
3/16/2018 23:37:19	Continuing Calibration Verification1	K (766.491 nm)	24.7994 (ppm)	3.19	24.7994 (ppm)	58781.8171
3/16/2018 23:37:19	Continuing Calibration Verification1	Mg (279.078 nm)	25.0947 (ppm)	2.73	25.0947 (ppm)	45762.8147
3/16/2018 23:37:19	Continuing Calibration Verification1	Mn (257.610 nm)	0.7769 (ppm)	2.66	0.7769 (ppm)	210967.3353
3/16/2018 23:37:19	Continuing Calibration Verification1	Mo (202.032 nm)	2.5386 (ppm)	2.58	2.5386 (ppm)	22618.9547
3/16/2018 23:37:19	Continuing Calibration Verification1	Na (588.995 nm)	24.7765 (ppm)	2.67	24.7765 (ppm)	891384.4697
3/16/2018 23:37:19	Continuing Calibration Verification1	Ni (230.299 nm)	2.0806 (ppm)	2.64	2.0806 (ppm)	12947.1761
3/16/2018 23:37:19	Continuing Calibration Verification1	Pb (220.353 nm)	0.5095 (ppm)	2.87	0.5095 (ppm)	1025.5442
3/16/2018 23:37:19	Continuing Calibration Verification1	Sb (217.582 nm)	4.9803 (ppm)	2.60	4.9803 (ppm)	6287.0885
3/16/2018 23:37:19	Continuing Calibration Verification1	Se (196.026 nm)	0.5017 (ppm)	3.54	0.5017 (ppm)	435.9502
3/16/2018 23:37:19	Continuing Calibration Verification1	Sn (189.925 nm)	5.1715 (ppm)	1.62	5.1715 (ppm)	5865.1617
3/16/2018 23:37:19	Continuing Calibration Verification1	Sr (216.596 nm)	2.5514 (ppm)	2.16	2.5514 (ppm)	33668.5364
3/16/2018 23:37:19	Continuing Calibration Verification1	Ti (336.122 nm)	2.4961 (ppm)	2.64	2.4961 (ppm)	420468.7087
3/16/2018 23:37:19	Continuing Calibration Verification1	Tl (351.923 nm)	1.0009 (ppm)	3.00	1.0009 (ppm)	2235.9710
3/16/2018 23:37:19	Continuing Calibration Verification1	V (292.401 nm)	2.5431 (ppm)	2.61	2.5431 (ppm)	77647.6424
3/16/2018 23:37:19	Continuing Calibration Verification1	Y (360.074 nm)	0.98 (Ratio)	3.63	0.98 (Ratio)	714451.97
3/16/2018 23:37:19	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98 (Ratio)	3.63	0.98 (Ratio)	717326.56
3/16/2018 23:37:19	Continuing Calibration Verification1	Zn (213.857 nm)	0.9846 (ppm)	2.79	0.9846 (ppm)	28059.6931
3/16/2018 23:40:38	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-93.7784
3/16/2018 23:40:38	Continuing Calibration Blank1	Al (394.401 nm)	0.0025 (ppm)	8.85	0.0025 (ppm)	148.2615
3/16/2018 23:40:38	Continuing Calibration Blank1	As (188.980 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-3.6859
3/16/2018 23:40:38	Continuing Calibration Blank1	B (249.772 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	97.6487
3/16/2018 23:40:38	Continuing Calibration Blank1	Ba (230.424 nm)	0.0024 (ppm)	9.30	0.0024 (ppm)	68.8031
3/16/2018 23:40:38	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	8.83	0.0001 (ppm)	-477.2606
3/16/2018 23:40:38	Continuing Calibration Blank1	Ca (227.547 nm)	0.0713 (ppm)	60.20	0.0713 (ppm)	7.5877
3/16/2018 23:40:38	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	99.81	0.0001 (ppm)	18.5789
3/16/2018 23:40:38	Continuing Calibration Blank1	Co (230.786 nm)	0.0004 (ppm)	26.92	0.0004 (ppm)	1.7364
3/16/2018 23:40:38	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.0977
3/16/2018 23:40:38	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.1467
3/16/2018 23:40:38	Continuing Calibration Blank1	Fe (234.350 nm)	0.0020 (ppm)	1.77	0.0020 (ppm)	38.8266
3/16/2018 23:40:38	Continuing Calibration Blank1	K (766.491 nm)	0.0093 (ppm)	10.30	0.0093 (ppm)	54.5803
3/16/2018 23:40:38	Continuing Calibration Blank1	Mg (279.078 nm)	0.0068 (ppm)	30.18	0.0068 (ppm)	4.2191
3/16/2018 23:40:38	Continuing Calibration Blank1	Mn (257.610 nm)	0.0002 (ppm)	12.48	0.0002 (ppm)	44.3310
3/16/2018 23:40:38	Continuing Calibration Blank1	Mo (202.032 nm)	0.0019 (ppm)	24.64	0.0019 (ppm)	26.8455
3/16/2018 23:40:38	Continuing Calibration Blank1	Na (588.995 nm)	0.0176 (ppm)	0.90	0.0176 (ppm)	-7508.6560
3/16/2018 23:40:38	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-19.5699
3/16/2018 23:40:38	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	3.3529
3/16/2018 23:40:38	Continuing Calibration Blank1	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.1457

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:40:38	Continuing Calibration Blank1	Se (196.026 nm)	-0.0031 u (ppm)	74.71	-0.0031 (ppm)	-3.7464
3/16/2018 23:40:38	Continuing Calibration Blank1	Sn (189.925 nm)	0.0019 (ppm)	83.88	0.0019 (ppm)	2.7629
3/16/2018 23:40:38	Continuing Calibration Blank1	Sr (216.596 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	4.0277
3/16/2018 23:40:38	Continuing Calibration Blank1	Ti (336.122 nm)	0.0016 (ppm)	4.51	0.0016 (ppm)	-322.2178
3/16/2018 23:40:38	Continuing Calibration Blank1	Ti (351.923 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	21.6233
3/16/2018 23:40:38	Continuing Calibration Blank1	V (292.401 nm)	0.0004 (ppm)	18.80	0.0004 (ppm)	147.5900
3/16/2018 23:40:38	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	0.69	1.02 (Ratio)	749157.26
3/16/2018 23:40:38	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	0.68	1.02 (Ratio)	752415.23
3/16/2018 23:40:38	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	23.75	0.0003 (ppm)	-21.5860
3/16/2018 23:43:57	R1802168-004	Ag (328.068 nm)	0.0001 (ppm)	49.85	0.0001 (ppm)	-97.4752
3/16/2018 23:43:57	R1802168-004	Al (394.401 nm)	0.0381 (ppm)	1.69	0.0381 (ppm)	513.7533
3/16/2018 23:43:57	R1802168-004	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-3.4119
3/16/2018 23:43:57	R1802168-004	B (249.772 nm)	0.1121 (ppm)	0.29	0.1121 (ppm)	3039.0510
3/16/2018 23:43:57	R1802168-004	Ba (230.424 nm)	0.0815 (ppm)	0.08	0.0815 (ppm)	2388.6251
3/16/2018 23:43:57	R1802168-004	Be (313.107 nm)	0.0000 (ppm)	57.67	0.0000 (ppm)	-538.7506
3/16/2018 23:43:57	R1802168-004	Ca (227.547 nm)	160.7346 u (ppm)	0.37	160.7346 (ppm)	7276.6546
3/16/2018 23:43:57	R1802168-004	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.3244
3/16/2018 23:43:57	R1802168-004	Co (230.786 nm)	0.0003 (ppm)	59.27	0.0003 (ppm)	0.8776
3/16/2018 23:43:57	R1802168-004	Cr (267.716 nm)	-0.0008 u (ppm)	16.29	-0.0008 (ppm)	-34.9543
3/16/2018 23:43:57	R1802168-004	Cu (327.395 nm)	0.0021 (ppm)	7.46	0.0021 (ppm)	118.7422
3/16/2018 23:43:57	R1802168-004	Fe (234.350 nm)	0.0117 (ppm)	1.56	0.0117 (ppm)	133.7291
3/16/2018 23:43:57	R1802168-004	K (766.491 nm)	4.4588 (ppm)	0.60	4.4588 (ppm)	10595.2354
3/16/2018 23:43:57	R1802168-004	Mg (279.078 nm)	45.1063 (ppm)	0.31	45.1063 (ppm)	82262.5613
3/16/2018 23:43:57	R1802168-004	Mn (257.610 nm)	1.1124 (ppm)	0.28	1.1124 (ppm)	302070.8395
3/16/2018 23:43:57	R1802168-004	Mo (202.032 nm)	0.0003 (ppm)	31.90	0.0003 (ppm)	13.3503
3/16/2018 23:43:57	R1802168-004	Na (588.995 nm)	9.3144 (ppm)	0.57	9.3144 (ppm)	330020.7065
3/16/2018 23:43:57	R1802168-004	Ni (230.299 nm)	-0.0045 u (ppm)	6.91	-0.0045 (ppm)	-50.0109
3/16/2018 23:43:57	R1802168-004	Pb (220.353 nm)	-0.0024 u (ppm)	65.72	-0.0024 (ppm)	1.2318
3/16/2018 23:43:57	R1802168-004	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.1858
3/16/2018 23:43:57	R1802168-004	Se (196.026 nm)	-0.0018 u (ppm)	97.19	-0.0018 (ppm)	-2.6295
3/16/2018 23:43:57	R1802168-004	Sn (189.925 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-1.8599
3/16/2018 23:43:57	R1802168-004	Sr (216.596 nm)	0.6804 (ppm)	0.72	0.6804 (ppm)	8979.2318
3/16/2018 23:43:57	R1802168-004	Ti (336.122 nm)	0.0020 (ppm)	5.44	0.0020 (ppm)	-256.3779
3/16/2018 23:43:57	R1802168-004	Ti (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	14.1417
3/16/2018 23:43:57	R1802168-004	V (292.401 nm)	0.0006 (ppm)	50.77	0.0006 (ppm)	153.6507
3/16/2018 23:43:57	R1802168-004	Y (360.074 nm)	1.00 (Ratio)	0.42	1.00 (Ratio)	729220.46
3/16/2018 23:43:57	R1802168-004	Y_R (360.074 nm)	1.00 (Ratio)	0.43	1.00 (Ratio)	732019.06
3/16/2018 23:43:57	R1802168-004	Zn (213.857 nm)	0.0035 (ppm)	2.38	0.0035 (ppm)	70.8942
3/16/2018 23:47:17	R1802172-001	Ag (328.068 nm)	0.0002 (ppm)	54.89	0.0002 (ppm)	-88.9171
3/16/2018 23:47:17	R1802172-001	Al (394.401 nm)	0.0852 (ppm)	1.97	0.0852 (ppm)	997.1553
3/16/2018 23:47:17	R1802172-001	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-2.0595
3/16/2018 23:47:17	R1802172-001	B (249.772 nm)	0.0611 (ppm)	2.13	0.0611 (ppm)	1699.3179
3/16/2018 23:47:17	R1802172-001	Ba (230.424 nm)	0.1186 (ppm)	1.23	0.1186 (ppm)	3476.7537
3/16/2018 23:47:17	R1802172-001	Be (313.107 nm)	0.0000 (ppm)	42.85	0.0000 (ppm)	-588.4585
3/16/2018 23:47:17	R1802172-001	Ca (227.547 nm)	169.0077 u (ppm)	1.94	169.0077 (ppm)	7650.9655
3/16/2018 23:47:17	R1802172-001	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.3678
3/16/2018 23:47:17	R1802172-001	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.9656
3/16/2018 23:47:17	R1802172-001	Cr (267.716 nm)	0.0003 (ppm)	81.44	0.0003 (ppm)	10.6094
3/16/2018 23:47:17	R1802172-001	Cu (327.395 nm)	0.0479 (ppm)	1.25	0.0479 (ppm)	2395.7786
3/16/2018 23:47:17	R1802172-001	Fe (234.350 nm)	0.1160 (ppm)	1.27	0.1160 (ppm)	1147.4365
3/16/2018 23:47:17	R1802172-001	K (766.491 nm)	4.4527 (ppm)	2.22	4.4527 (ppm)	10580.8640

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:47:17	R1802172-001	Mg (279.078 nm)	57.5649 o (ppm)	1.81	57.5649 (ppm)	104986.0323
3/16/2018 23:47:17	R1802172-001	Mn (257.610 nm)	0.0252 (ppm)	1.04	0.0252 (ppm)	6835.8790
3/16/2018 23:47:17	R1802172-001	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	10.0574
3/16/2018 23:47:17	R1802172-001	Na (588.995 nm)	572.8510 o (ppm)	1.91	572.8510 (ppm)	20789718.8403
3/16/2018 23:47:17	R1802172-001	Ni (230.299 nm)	-0.0020 u (ppm)	69.65	-0.0020 (ppm)	-34.0878
3/16/2018 23:47:17	R1802172-001	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.4128
3/16/2018 23:47:17	R1802172-001	Sb (217.582 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	2.7783
3/16/2018 23:47:17	R1802172-001	Se (196.026 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-2.9856
3/16/2018 23:47:17	R1802172-001	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.0797
3/16/2018 23:47:17	R1802172-001	Sr (216.596 nm)	0.4220 (ppm)	1.14	0.4220 (ppm)	5568.7611
3/16/2018 23:47:17	R1802172-001	Ti (336.122 nm)	0.0026 (ppm)	5.30	0.0026 (ppm)	-149.8084
3/16/2018 23:47:17	R1802172-001	Tl (351.923 nm)	0.0037 (ppm)	> 100.00	0.0037 (ppm)	24.7610
3/16/2018 23:47:17	R1802172-001	V (292.401 nm)	0.0008 (ppm)	8.08	0.0008 (ppm)	158.9527
3/16/2018 23:47:17	R1802172-001	Y (360.074 nm)	0.93 (Ratio)	0.97	0.93 (Ratio)	683132.71
3/16/2018 23:47:17	R1802172-001	Y_R (360.074 nm)	0.93 (Ratio)	0.98	0.93 (Ratio)	685424.03
3/16/2018 23:47:17	R1802172-001	Zn (213.857 nm)	0.0309 (ppm)	0.65	0.0309 (ppm)	852.0722
3/16/2018 23:50:36	R1802172-002	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-97.6613
3/16/2018 23:50:36	R1802172-002	Al (394.401 nm)	0.0510 (ppm)	1.09	0.0510 (ppm)	645.9295
3/16/2018 23:50:36	R1802172-002	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-3.7783
3/16/2018 23:50:36	R1802172-002	B (249.772 nm)	0.0317 (ppm)	0.56	0.0317 (ppm)	928.9918
3/16/2018 23:50:36	R1802172-002	Ba (230.424 nm)	0.0285 (ppm)	1.41	0.0285 (ppm)	834.6286
3/16/2018 23:50:36	R1802172-002	Be (313.107 nm)	0.0000 (ppm)	79.37	0.0000 (ppm)	-570.5919
3/16/2018 23:50:36	R1802172-002	Ca (227.547 nm)	57.3071 o (ppm)	0.86	57.3071 (ppm)	2597.1701
3/16/2018 23:50:36	R1802172-002	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.9280
3/16/2018 23:50:36	R1802172-002	Co (230.786 nm)	-0.0003 u (ppm)	88.21	-0.0003 (ppm)	-5.1891
3/16/2018 23:50:36	R1802172-002	Cr (267.716 nm)	0.0004 (ppm)	31.77	0.0004 (ppm)	14.4197
3/16/2018 23:50:36	R1802172-002	Cu (327.395 nm)	0.0064 (ppm)	3.16	0.0064 (ppm)	332.6158
3/16/2018 23:50:36	R1802172-002	Fe (234.350 nm)	0.0648 (ppm)	0.70	0.0648 (ppm)	650.1182
3/16/2018 23:50:36	R1802172-002	K (766.491 nm)	3.2784 (ppm)	1.23	3.2784 (ppm)	7798.9100
3/16/2018 23:50:36	R1802172-002	Mg (279.078 nm)	17.6296 (ppm)	0.59	17.6296 (ppm)	32147.0084
3/16/2018 23:50:36	R1802172-002	Mn (257.610 nm)	0.0040 (ppm)	0.99	0.0040 (ppm)	1079.0193
3/16/2018 23:50:36	R1802172-002	Mo (202.032 nm)	-0.0002 u (ppm)	61.04	-0.0002 (ppm)	8.4599
3/16/2018 23:50:36	R1802172-002	Na (588.995 nm)	91.5940 o (ppm)	0.80	91.5940 (ppm)	3317253.9990
3/16/2018 23:50:36	R1802172-002	Ni (230.299 nm)	-0.0012 u (ppm)	76.95	-0.0012 (ppm)	-29.4031
3/16/2018 23:50:36	R1802172-002	Pb (220.353 nm)	0.0062 (ppm)	14.98	0.0062 (ppm)	18.6185
3/16/2018 23:50:36	R1802172-002	Sb (217.582 nm)	0.0018 (ppm)	53.84	0.0018 (ppm)	2.2632
3/16/2018 23:50:36	R1802172-002	Se (196.026 nm)	-0.0039 u (ppm)	97.99	-0.0039 (ppm)	-4.4694
3/16/2018 23:50:36	R1802172-002	Sn (189.925 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.4824
3/16/2018 23:50:36	R1802172-002	Sr (216.596 nm)	0.1856 (ppm)	0.99	0.1856 (ppm)	2449.4207
3/16/2018 23:50:36	R1802172-002	Ti (336.122 nm)	0.0014 (ppm)	10.72	0.0014 (ppm)	-359.4025
3/16/2018 23:50:36	R1802172-002	Tl (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	13.9280
3/16/2018 23:50:36	R1802172-002	V (292.401 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	147.7341
3/16/2018 23:50:36	R1802172-002	Y (360.074 nm)	0.99 (Ratio)	0.96	0.99 (Ratio)	722444.76
3/16/2018 23:50:36	R1802172-002	Y_R (360.074 nm)	0.99 (Ratio)	0.96	0.99 (Ratio)	725150.52
3/16/2018 23:50:36	R1802172-002	Zn (213.857 nm)	0.0642 (ppm)	0.57	0.0642 (ppm)	1801.7546
3/16/2018 23:53:55	Continuing Calibration Verification1	Ag (328.068 nm)	0.4807 (ppm)	0.49	0.4807 (ppm)	29070.0908
3/16/2018 23:53:55	Continuing Calibration Verification1	Al (394.401 nm)	9.5454 (ppm)	0.66	9.5454 (ppm)	98112.3607
3/16/2018 23:53:55	Continuing Calibration Verification1	As (188.980 nm)	0.9839 (ppm)	1.03	0.9839 (ppm)	860.6098
3/16/2018 23:53:55	Continuing Calibration Verification1	B (249.772 nm)	2.4274 (ppm)	0.66	2.4274 (ppm)	63803.5936
3/16/2018 23:53:55	Continuing Calibration Verification1	Ba (230.424 nm)	10.1636 (ppm)	0.60	10.1636 (ppm)	298010.1597
3/16/2018 23:53:55	Continuing Calibration Verification1	Be (313.107 nm)	0.2512 (ppm)	0.77	0.2512 (ppm)	332723.7261

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:53:55	Continuing Calibration Verification1	Ca (227.547 nm)	24.1203 (ppm)	0.91	24.1203 (ppm)	1095.6613
3/16/2018 23:53:55	Continuing Calibration Verification1	Cd (214.439 nm)	0.5052 (ppm)	0.63	0.5052 (ppm)	10474.0352
3/16/2018 23:53:55	Continuing Calibration Verification1	Co (230.786 nm)	2.5715 (ppm)	0.57	2.5715 (ppm)	23133.0921
3/16/2018 23:53:55	Continuing Calibration Verification1	Cr (267.716 nm)	0.5198 (ppm)	0.52	0.5198 (ppm)	21983.2750
3/16/2018 23:53:55	Continuing Calibration Verification1	Cu (327.395 nm)	1.2126 (ppm)	0.92	1.2126 (ppm)	60217.4314
3/16/2018 23:53:55	Continuing Calibration Verification1	Fe (234.350 nm)	5.0091 (ppm)	0.58	5.0091 (ppm)	48716.5815
3/16/2018 23:53:55	Continuing Calibration Verification1	K (766.491 nm)	24.3607 (ppm)	0.75	24.3607 (ppm)	57742.6046
3/16/2018 23:53:55	Continuing Calibration Verification1	Mg (279.078 nm)	24.7361 (ppm)	0.60	24.7361 (ppm)	45108.7990
3/16/2018 23:53:55	Continuing Calibration Verification1	Mn (257.610 nm)	0.7645 (ppm)	0.60	0.7645 (ppm)	207592.9637
3/16/2018 23:53:55	Continuing Calibration Verification1	Mo (202.032 nm)	2.5007 (ppm)	0.56	2.5007 (ppm)	22281.5123
3/16/2018 23:53:55	Continuing Calibration Verification1	Na (588.995 nm)	24.3954 (ppm)	0.81	24.3954 (ppm)	877548.4272
3/16/2018 23:53:55	Continuing Calibration Verification1	Ni (230.299 nm)	2.0533 (ppm)	0.66	2.0533 (ppm)	12776.4957
3/16/2018 23:53:55	Continuing Calibration Verification1	Pb (220.353 nm)	0.4997 (ppm)	0.90	0.4997 (ppm)	1005.9651
3/16/2018 23:53:55	Continuing Calibration Verification1	Sb (217.582 nm)	4.9262 (ppm)	0.96	4.9262 (ppm)	6218.7859
3/16/2018 23:53:55	Continuing Calibration Verification1	Se (196.026 nm)	0.4956 (ppm)	1.53	0.4956 (ppm)	430.5970
3/16/2018 23:53:55	Continuing Calibration Verification1	Sn (189.925 nm)	5.1578 (ppm)	0.82	5.1578 (ppm)	5849.6045
3/16/2018 23:53:55	Continuing Calibration Verification1	Sr (216.596 nm)	2.5214 (ppm)	0.23	2.5214 (ppm)	33272.1890
3/16/2018 23:53:55	Continuing Calibration Verification1	Ti (336.122 nm)	2.4658 (ppm)	0.58	2.4658 (ppm)	415353.4911
3/16/2018 23:53:55	Continuing Calibration Verification1	Tl (351.923 nm)	0.9852 (ppm)	1.03	0.9852 (ppm)	2201.2088
3/16/2018 23:53:55	Continuing Calibration Verification1	V (292.401 nm)	2.5036 (ppm)	0.57	2.5036 (ppm)	76445.5493
3/16/2018 23:53:55	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	1.05	0.99 (Ratio)	726909.99
3/16/2018 23:53:55	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	1.04	0.99 (Ratio)	729693.03
3/16/2018 23:53:55	Continuing Calibration Verification1	Zn (213.857 nm)	0.9680 (ppm)	0.54	0.9680 (ppm)	27588.0384
3/16/2018 23:57:13	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-97.7998
3/16/2018 23:57:13	Continuing Calibration Blank1	Al (394.401 nm)	0.0023 (ppm)	25.47	0.0023 (ppm)	146.6983
3/16/2018 23:57:13	Continuing Calibration Blank1	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-2.1758
3/16/2018 23:57:13	Continuing Calibration Blank1	B (249.772 nm)	0.0006 (ppm)	48.86	0.0006 (ppm)	111.6720
3/16/2018 23:57:13	Continuing Calibration Blank1	Ba (230.424 nm)	0.0029 (ppm)	3.11	0.0029 (ppm)	82.8790
3/16/2018 23:57:13	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	4.66	0.0001 (ppm)	-459.6844
3/16/2018 23:57:13	Continuing Calibration Blank1	Ca (227.547 nm)	0.0685 (ppm)	66.08	0.0685 (ppm)	7.4598
3/16/2018 23:57:13	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.2809
3/16/2018 23:57:13	Continuing Calibration Blank1	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	1.5452
3/16/2018 23:57:13	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002 (ppm)	55.93	0.0002 (ppm)	4.5514
3/16/2018 23:57:13	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002 (ppm)	47.62	0.0002 (ppm)	27.5841
3/16/2018 23:57:13	Continuing Calibration Blank1	Fe (234.350 nm)	0.0020 (ppm)	10.06	0.0020 (ppm)	39.5545
3/16/2018 23:57:13	Continuing Calibration Blank1	K (766.491 nm)	0.0133 (ppm)	79.42	0.0133 (ppm)	64.0077
3/16/2018 23:57:13	Continuing Calibration Blank1	Mg (279.078 nm)	0.0083 (ppm)	14.97	0.0083 (ppm)	7.1158
3/16/2018 23:57:13	Continuing Calibration Blank1	Mn (257.610 nm)	0.0002 (ppm)	6.98	0.0002 (ppm)	55.7507
3/16/2018 23:57:13	Continuing Calibration Blank1	Mo (202.032 nm)	0.0018 (ppm)	7.45	0.0018 (ppm)	26.6532
3/16/2018 23:57:13	Continuing Calibration Blank1	Na (588.995 nm)	0.0213 (ppm)	4.04	0.0213 (ppm)	-7372.8932
3/16/2018 23:57:13	Continuing Calibration Blank1	Ni (230.299 nm)	0.0008 (ppm)	47.36	0.0008 (ppm)	-16.7185
3/16/2018 23:57:13	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.6785
3/16/2018 23:57:13	Continuing Calibration Blank1	Sb (217.582 nm)	0.0036 (ppm)	11.70	0.0036 (ppm)	4.5498
3/16/2018 23:57:13	Continuing Calibration Blank1	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.3002
3/16/2018 23:57:13	Continuing Calibration Blank1	Sn (189.925 nm)	0.0010 (ppm)	65.23	0.0010 (ppm)	1.8035
3/16/2018 23:57:13	Continuing Calibration Blank1	Sr (216.596 nm)	0.0006 (ppm)	20.95	0.0006 (ppm)	8.9891
3/16/2018 23:57:13	Continuing Calibration Blank1	Ti (336.122 nm)	0.0017 (ppm)	6.71	0.0017 (ppm)	-296.6822
3/16/2018 23:57:13	Continuing Calibration Blank1	Tl (351.923 nm)	0.0026 (ppm)	8.74	0.0026 (ppm)	22.3098
3/16/2018 23:57:13	Continuing Calibration Blank1	V (292.401 nm)	0.0006 (ppm)	23.45	0.0006 (ppm)	152.9136
3/16/2018 23:57:13	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	0.87	1.02 (Ratio)	746500.89
3/16/2018 23:57:13	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	0.86	1.02 (Ratio)	749338.49

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 23:57:13	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0004 (ppm)	16.19	0.0004 (ppm)	-19.4588
3/17/2018 00:00:32	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	0.76	0.0098 (ppm)	492.8090
3/17/2018 00:00:32	Contract Required Detection Limit	Al (394.401 nm)	0.1721 (ppm)	0.86	0.1721 (ppm)	1888.9014
3/17/2018 00:00:32	Contract Required Detection Limit	As (188.980 nm)	0.0185 (ppm)	5.40	0.0185 (ppm)	13.1222
3/17/2018 00:00:32	Contract Required Detection Limit	B (249.772 nm)	0.1955 (ppm)	0.29	0.1955 (ppm)	5228.1491
3/17/2018 00:00:32	Contract Required Detection Limit	Ba (230.424 nm)	0.2057 (ppm)	0.34	0.2057 (ppm)	6031.2528
3/17/2018 00:00:32	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.28	0.0049 (ppm)	5966.7537
3/17/2018 00:00:32	Contract Required Detection Limit	Ca (227.547 nm)	0.9866 (ppm)	1.21	0.9866 (ppm)	49.0002
3/17/2018 00:00:32	Contract Required Detection Limit	Cd (214.439 nm)	0.0100 (ppm)	0.74	0.0100 (ppm)	225.3318
3/17/2018 00:00:32	Contract Required Detection Limit	Co (230.786 nm)	0.0505 (ppm)	1.33	0.0505 (ppm)	452.3955
3/17/2018 00:00:32	Contract Required Detection Limit	Cr (267.716 nm)	0.0103 (ppm)	0.63	0.0103 (ppm)	432.9914
3/17/2018 00:00:32	Contract Required Detection Limit	Cu (327.395 nm)	0.0237 (ppm)	0.32	0.0237 (ppm)	1190.6949
3/17/2018 00:00:32	Contract Required Detection Limit	Fe (234.350 nm)	0.1039 (ppm)	0.23	0.1039 (ppm)	1030.0863
3/17/2018 00:00:32	Contract Required Detection Limit	K (766.491 nm)	0.9162 (ppm)	0.73	0.9162 (ppm)	2202.9146
3/17/2018 00:00:32	Contract Required Detection Limit	Mg (279.078 nm)	0.9919 (ppm)	0.29	0.9919 (ppm)	1801.0281
3/17/2018 00:00:32	Contract Required Detection Limit	Mn (257.610 nm)	0.0153 (ppm)	0.08	0.0153 (ppm)	4169.5929
3/17/2018 00:00:32	Contract Required Detection Limit	Mo (202.032 nm)	0.0249 (ppm)	0.74	0.0249 (ppm)	232.2660
3/17/2018 00:00:32	Contract Required Detection Limit	Na (588.995 nm)	1.0090 (ppm)	0.49	1.0090 (ppm)	28484.9157
3/17/2018 00:00:32	Contract Required Detection Limit	Ni (230.299 nm)	0.0421 (ppm)	3.92	0.0421 (ppm)	240.9056
3/17/2018 00:00:32	Contract Required Detection Limit	Pb (220.353 nm)	0.0097 (ppm)	12.03	0.0097 (ppm)	25.4986
3/17/2018 00:00:32	Contract Required Detection Limit	Sb (217.582 nm)	0.0613 (ppm)	3.89	0.0613 (ppm)	77.3551
3/17/2018 00:00:32	Contract Required Detection Limit	Se (196.026 nm)	0.0098 (ppm)	29.06	0.0098 (ppm)	7.4494
3/17/2018 00:00:32	Contract Required Detection Limit	Sn (189.925 nm)	0.5095 (ppm)	0.53	0.5095 (ppm)	578.4221
3/17/2018 00:00:32	Contract Required Detection Limit	Sr (216.596 nm)	0.1003 (ppm)	0.47	0.1003 (ppm)	1324.4782
3/17/2018 00:00:32	Contract Required Detection Limit	Ti (336.122 nm)	0.0503 (ppm)	0.22	0.0503 (ppm)	7902.3011
3/17/2018 00:00:32	Contract Required Detection Limit	Tl (351.923 nm)	0.0189 (ppm)	3.19	0.0189 (ppm)	58.3902
3/17/2018 00:00:32	Contract Required Detection Limit	V (292.401 nm)	0.0481 (ppm)	0.61	0.0481 (ppm)	1602.2544
3/17/2018 00:00:32	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.62	1.03 (Ratio)	756280.46
3/17/2018 00:00:32	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.61	1.03 (Ratio)	758905.09
3/17/2018 00:00:32	Contract Required Detection Limit	Zn (213.857 nm)	0.0198 (ppm)	0.37	0.0198 (ppm)	534.8596
3/17/2018 00:03:51	Interference Check Solution A	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-98.4597
3/17/2018 00:03:51	Interference Check Solution A	Al (394.401 nm)	267.0714 o (ppm)	0.82	267.0714 (ppm)	2741774.8255
3/17/2018 00:03:51	Interference Check Solution A	As (188.980 nm)	0.0028 (ppm)	28.95	0.0028 (ppm)	-0.6774
3/17/2018 00:03:51	Interference Check Solution A	B (249.772 nm)	0.0406 (ppm)	1.08	0.0406 (ppm)	1160.5141
3/17/2018 00:03:51	Interference Check Solution A	Ba (230.424 nm)	0.0008 (ppm)	36.94	0.0008 (ppm)	22.0195
3/17/2018 00:03:51	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	27.78	0.0000 (ppm)	-595.5784
3/17/2018 00:03:51	Interference Check Solution A	Ca (227.547 nm)	268.9224 o (ppm)	0.84	268.9224 (ppm)	12171.5152
3/17/2018 00:03:51	Interference Check Solution A	Cd (214.439 nm)	-0.0009 u (ppm)	19.18	-0.0009 (ppm)	-0.7485
3/17/2018 00:03:51	Interference Check Solution A	Co (230.786 nm)	-0.0018 u (ppm)	1.55	-0.0018 (ppm)	-18.6605
3/17/2018 00:03:51	Interference Check Solution A	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.2916
3/17/2018 00:03:51	Interference Check Solution A	Cu (327.395 nm)	0.0008 (ppm)	16.52	0.0008 (ppm)	53.5934
3/17/2018 00:03:51	Interference Check Solution A	Fe (234.350 nm)	94.5964 o (ppm)	0.57	94.5964 (ppm)	919651.4544
3/17/2018 00:03:51	Interference Check Solution A	K (766.491 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	24.8936
3/17/2018 00:03:51	Interference Check Solution A	Mg (279.078 nm)	268.4553 o (ppm)	0.74	268.4553 (ppm)	489634.7804
3/17/2018 00:03:51	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	1.30	0.0017 (ppm)	452.9419
3/17/2018 00:03:51	Interference Check Solution A	Mo (202.032 nm)	-0.0003 u (ppm)	60.31	-0.0003 (ppm)	7.5913
3/17/2018 00:03:51	Interference Check Solution A	Na (588.995 nm)	-0.0145 u (ppm)	3.20	-0.0145 (ppm)	-8674.1742
3/17/2018 00:03:51	Interference Check Solution A	Ni (230.299 nm)	-0.0021 u (ppm)	7.64	-0.0021 (ppm)	-34.7947
3/17/2018 00:03:51	Interference Check Solution A	Pb (220.353 nm)	-0.0028 u (ppm)	31.63	-0.0028 (ppm)	0.5590
3/17/2018 00:03:51	Interference Check Solution A	Sb (217.582 nm)	-0.0030 u (ppm)	49.24	-0.0030 (ppm)	-3.7390
3/17/2018 00:03:51	Interference Check Solution A	Se (196.026 nm)	-0.0038 u (ppm)	72.18	-0.0038 (ppm)	-4.3294

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/17/2018 00:03:51	Interference Check Solution A	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	1.4049
3/17/2018 00:03:51	Interference Check Solution A	Sr (216.596 nm)	0.0188 (ppm)	3.50	0.0188 (ppm)	248.5876
3/17/2018 00:03:51	Interference Check Solution A	Ti (336.122 nm)	0.0019 (ppm)	4.09	0.0019 (ppm)	-272.9906
3/17/2018 00:03:51	Interference Check Solution A	Ti (351.923 nm)	0.0031 (ppm)	> 100.00	0.0031 (ppm)	23.4681
3/17/2018 00:03:51	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	5.87	0.0035 (ppm)	242.0653 K
3/17/2018 00:03:51	Interference Check Solution A	Y (360.074 nm)	0.92 (Ratio)	1.15	0.92 (Ratio)	674794.31
3/17/2018 00:03:51	Interference Check Solution A	Y_R (360.074 nm)	0.92 (Ratio)	1.15	0.92 (Ratio)	676584.82
3/17/2018 00:03:51	Interference Check Solution A	Zn (213.857 nm)	0.0103 K (ppm)	1.17	0.0103 (ppm)	263.7236 K
3/17/2018 00:07:10	Interference Check Solution AB	Ag (328.068 nm)	0.2144 (ppm)	1.44	0.2144 (ppm)	12910.6057
3/17/2018 00:07:10	Interference Check Solution AB	Al (394.401 nm)	265.1476 o (ppm)	1.69	265.1476 (ppm)	2722025.7803
3/17/2018 00:07:10	Interference Check Solution AB	As (188.980 nm)	0.0949 (ppm)	1.00	0.0949 (ppm)	80.1721
3/17/2018 00:07:10	Interference Check Solution AB	B (249.772 nm)	0.0416 (ppm)	1.35	0.0416 (ppm)	1187.6871
3/17/2018 00:07:10	Interference Check Solution AB	Ba (230.424 nm)	0.5233 (ppm)	1.23	0.5233 (ppm)	15343.2999
3/17/2018 00:07:10	Interference Check Solution AB	Be (313.107 nm)	0.5049 (ppm)	1.54	0.5049 (ppm)	669230.3683
3/17/2018 00:07:10	Interference Check Solution AB	Ca (227.547 nm)	266.5377 o (ppm)	1.69	266.5377 (ppm)	12063.6218
3/17/2018 00:07:10	Interference Check Solution AB	Cd (214.439 nm)	0.9828 (ppm)	1.50	0.9828 (ppm)	20359.3952
3/17/2018 00:07:10	Interference Check Solution AB	Co (230.786 nm)	0.4987 (ppm)	1.66	0.4987 (ppm)	4484.6344
3/17/2018 00:07:10	Interference Check Solution AB	Cr (267.716 nm)	0.5144 (ppm)	1.47	0.5144 (ppm)	21754.4605
3/17/2018 00:07:10	Interference Check Solution AB	Cu (327.395 nm)	0.5341 (ppm)	1.79	0.5341 (ppm)	26533.9499
3/17/2018 00:07:10	Interference Check Solution AB	Fe (234.350 nm)	94.2245 o (ppm)	1.37	94.2245 (ppm)	916035.9151
3/17/2018 00:07:10	Interference Check Solution AB	K (766.491 nm)	-0.0166 u (ppm)	12.19	-0.0166 (ppm)	-6.8258
3/17/2018 00:07:10	Interference Check Solution AB	Mg (279.078 nm)	266.7049 o (ppm)	1.46	266.7049 (ppm)	486442.2104
3/17/2018 00:07:10	Interference Check Solution AB	Mn (257.610 nm)	0.5068 (ppm)	1.45	0.5068 (ppm)	137626.0103
3/17/2018 00:07:10	Interference Check Solution AB	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	8.8630
3/17/2018 00:07:10	Interference Check Solution AB	Na (588.995 nm)	-0.0111 u (ppm)	13.85	-0.0111 (ppm)	-8550.6730
3/17/2018 00:07:10	Interference Check Solution AB	Ni (230.299 nm)	0.9747 (ppm)	1.52	0.9747 (ppm)	6053.8134
3/17/2018 00:07:10	Interference Check Solution AB	Pb (220.353 nm)	0.0469 (ppm)	1.54	0.0469 (ppm)	99.9959
3/17/2018 00:07:10	Interference Check Solution AB	Sb (217.582 nm)	0.6196 (ppm)	2.08	0.6196 (ppm)	782.1413
3/17/2018 00:07:10	Interference Check Solution AB	Se (196.026 nm)	0.0499 (ppm)	1.02	0.0499 (ppm)	42.3993
3/17/2018 00:07:10	Interference Check Solution AB	Sn (189.925 nm)	-0.0043 u (ppm)	43.30	-0.0043 (ppm)	-4.2050
3/17/2018 00:07:10	Interference Check Solution AB	Sr (216.596 nm)	0.0195 (ppm)	1.00	0.0195 (ppm)	257.7606
3/17/2018 00:07:10	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	1.77	0.0016 (ppm)	-309.7857
3/17/2018 00:07:10	Interference Check Solution AB	Ti (351.923 nm)	0.1133 (ppm)	1.81	0.1133 (ppm)	267.8027
3/17/2018 00:07:10	Interference Check Solution AB	V (292.401 nm)	0.5084 (ppm)	1.49	0.5084 (ppm)	15632.9482
3/17/2018 00:07:10	Interference Check Solution AB	Y (360.074 nm)	0.93 (Ratio)	1.23	0.93 (Ratio)	677965.27
3/17/2018 00:07:10	Interference Check Solution AB	Y_R (360.074 nm)	0.93 (Ratio)	1.24	0.93 (Ratio)	679643.47
3/17/2018 00:07:10	Interference Check Solution AB	Zn (213.857 nm)	0.9939 (ppm)	1.49	0.9939 (ppm)	28325.9235
3/17/2018 00:10:29	Continuing Calibration Verification1	Ag (328.068 nm)	0.4796 (ppm)	0.51	0.4796 (ppm)	29005.5352
3/17/2018 00:10:29	Continuing Calibration Verification1	Al (394.401 nm)	9.5531 (ppm)	0.74	9.5531 (ppm)	98191.4760
3/17/2018 00:10:29	Continuing Calibration Verification1	As (188.980 nm)	0.9771 (ppm)	0.72	0.9771 (ppm)	854.5880
3/17/2018 00:10:29	Continuing Calibration Verification1	B (249.772 nm)	2.4210 (ppm)	0.67	2.4210 (ppm)	63635.8741
3/17/2018 00:10:29	Continuing Calibration Verification1	Ba (230.424 nm)	10.1605 (ppm)	0.65	10.1605 (ppm)	297920.8854
3/17/2018 00:10:29	Continuing Calibration Verification1	Be (313.107 nm)	0.2505 (ppm)	0.88	0.2505 (ppm)	331796.2618
3/17/2018 00:10:29	Continuing Calibration Verification1	Ca (227.547 nm)	24.0113 (ppm)	0.57	24.0113 (ppm)	1090.7306
3/17/2018 00:10:29	Continuing Calibration Verification1	Cd (214.439 nm)	0.5041 (ppm)	0.64	0.5041 (ppm)	10451.6355
3/17/2018 00:10:29	Continuing Calibration Verification1	Co (230.786 nm)	2.5686 (ppm)	0.41	2.5686 (ppm)	23107.2935
3/17/2018 00:10:29	Continuing Calibration Verification1	Cr (267.716 nm)	0.5226 (ppm)	0.60	0.5226 (ppm)	22103.9866
3/17/2018 00:10:29	Continuing Calibration Verification1	Cu (327.395 nm)	1.2026 (ppm)	0.61	1.2026 (ppm)	59717.6759
3/17/2018 00:10:29	Continuing Calibration Verification1	Fe (234.350 nm)	5.0407 (ppm)	0.60	5.0407 (ppm)	49023.2196
3/17/2018 00:10:29	Continuing Calibration Verification1	K (766.491 nm)	24.2520 (ppm)	0.83	24.2520 (ppm)	57485.0382
3/17/2018 00:10:29	Continuing Calibration Verification1	Mg (279.078 nm)	24.8147 (ppm)	0.56	24.8147 (ppm)	45252.0663



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/17/2018 00:10:29	Continuing Calibration Verification1	Mn (257.610 nm)	0.7659 (ppm)	0.55	0.7659 (ppm)	207982.4811
3/17/2018 00:10:29	Continuing Calibration Verification1	Mo (202.032 nm)	2.4971 (ppm)	0.49	2.4971 (ppm)	22249.6425
3/17/2018 00:10:29	Continuing Calibration Verification1	Na (588.995 nm)	24.3068 (ppm)	0.86	24.3068 (ppm)	874332.2763
3/17/2018 00:10:29	Continuing Calibration Verification1	Ni (230.299 nm)	2.0480 (ppm)	0.66	2.0480 (ppm)	12743.4757
3/17/2018 00:10:29	Continuing Calibration Verification1	Pb (220.353 nm)	0.4978 (ppm)	0.86	0.4978 (ppm)	1002.2040
3/17/2018 00:10:29	Continuing Calibration Verification1	Sb (217.582 nm)	4.9235 (ppm)	0.61	4.9235 (ppm)	6215.4748
3/17/2018 00:10:29	Continuing Calibration Verification1	Se (196.026 nm)	0.4839 (ppm)	1.01	0.4839 (ppm)	420.4393
3/17/2018 00:10:29	Continuing Calibration Verification1	Sn (189.925 nm)	5.1255 (ppm)	0.75	5.1255 (ppm)	5812.9322
3/17/2018 00:10:29	Continuing Calibration Verification1	Sr (216.596 nm)	2.5407 (ppm)	0.61	2.5407 (ppm)	33527.4886
3/17/2018 00:10:29	Continuing Calibration Verification1	Ti (336.122 nm)	2.4606 (ppm)	0.55	2.4606 (ppm)	414486.0066
3/17/2018 00:10:29	Continuing Calibration Verification1	Ti (351.923 nm)	0.9833 (ppm)	0.71	0.9833 (ppm)	2197.0762
3/17/2018 00:10:29	Continuing Calibration Verification1	V (292.401 nm)	2.5070 (ppm)	0.54	2.5070 (ppm)	76548.2886
3/17/2018 00:10:29	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	0.97	0.99 (Ratio)	725866.08
3/17/2018 00:10:29	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	0.96	0.99 (Ratio)	727867.64
3/17/2018 00:10:29	Continuing Calibration Verification1	Zn (213.857 nm)	0.9701 (ppm)	0.54	0.9701 (ppm)	27648.3170
3/17/2018 00:13:48	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-98.7673
3/17/2018 00:13:48	Continuing Calibration Blank1	Al (394.401 nm)	0.0053 (ppm)	17.75	0.0053 (ppm)	177.3318
3/17/2018 00:13:48	Continuing Calibration Blank1	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.6651
3/17/2018 00:13:48	Continuing Calibration Blank1	B (249.772 nm)	0.0009 (ppm)	23.87	0.0009 (ppm)	118.7425
3/17/2018 00:13:48	Continuing Calibration Blank1	Ba (230.424 nm)	0.0037 (ppm)	4.19	0.0037 (ppm)	107.5026
3/17/2018 00:13:48	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	5.05	0.0001 (ppm)	-435.7784
3/17/2018 00:13:48	Continuing Calibration Blank1	Ca (227.547 nm)	0.0594 (ppm)	39.36	0.0594 (ppm)	7.0470
3/17/2018 00:13:48	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.2258
3/17/2018 00:13:48	Continuing Calibration Blank1	Co (230.786 nm)	0.0006 (ppm)	35.93	0.0006 (ppm)	3.2861
3/17/2018 00:13:48	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 (ppm)	42.57	0.0001 (ppm)	3.9276
3/17/2018 00:13:48	Continuing Calibration Blank1	Cu (327.395 nm)	0.0002 (ppm)	86.44	0.0002 (ppm)	28.0852
3/17/2018 00:13:48	Continuing Calibration Blank1	Fe (234.350 nm)	0.0038 (ppm)	14.40	0.0038 (ppm)	57.1173
3/17/2018 00:13:48	Continuing Calibration Blank1	K (766.491 nm)	0.0065 u (ppm)	> 100.00	0.0065 (ppm)	47.9003
3/17/2018 00:13:48	Continuing Calibration Blank1	Mg (279.078 nm)	0.0110 (ppm)	14.21	0.0110 (ppm)	11.9672
3/17/2018 00:13:48	Continuing Calibration Blank1	Mn (257.610 nm)	0.0003 (ppm)	8.89	0.0003 (ppm)	71.7848
3/17/2018 00:13:48	Continuing Calibration Blank1	Mo (202.032 nm)	0.0024 (ppm)	10.39	0.0024 (ppm)	31.7259
3/17/2018 00:13:48	Continuing Calibration Blank1	Na (588.995 nm)	0.0131 (ppm)	32.34	0.0131 (ppm)	-7671.9519
3/17/2018 00:13:48	Continuing Calibration Blank1	Ni (230.299 nm)	0.0007 (ppm)	78.81	0.0007 (ppm)	-17.4877
3/17/2018 00:13:48	Continuing Calibration Blank1	Pb (220.353 nm)	0.0016 (ppm)	23.67	0.0016 (ppm)	9.3115
3/17/2018 00:13:48	Continuing Calibration Blank1	Sb (217.582 nm)	0.0014 (ppm)	72.72	0.0014 (ppm)	1.7767
3/17/2018 00:13:48	Continuing Calibration Blank1	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.4607
3/17/2018 00:13:48	Continuing Calibration Blank1	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	2.1202
3/17/2018 00:13:48	Continuing Calibration Blank1	Sr (216.596 nm)	0.0008 (ppm)	30.24	0.0008 (ppm)	11.2323
3/17/2018 00:13:48	Continuing Calibration Blank1	Ti (336.122 nm)	0.0016 (ppm)	13.53	0.0016 (ppm)	-312.5195
3/17/2018 00:13:48	Continuing Calibration Blank1	Ti (351.923 nm)	0.0072 (ppm)	20.96	0.0072 (ppm)	32.5429
3/17/2018 00:13:48	Continuing Calibration Blank1	V (292.401 nm)	0.0006 (ppm)	48.65	0.0006 (ppm)	154.8136
3/17/2018 00:13:48	Continuing Calibration Blank1	Y (360.074 nm)	1.00 (Ratio)	2.27	1.00 (Ratio)	734487.20
3/17/2018 00:13:48	Continuing Calibration Blank1	Y_R (360.074 nm)	1.00 (Ratio)	2.27	1.00 (Ratio)	736592.67
3/17/2018 00:13:48	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	4.60	0.0003 (ppm)	-20.8032



Ag (328.068 nm)  
Intensity = 60690.8781 \* Concentration - 101.4863  
Correlation coefficient: 0.99999

As (188.980 nm)  
Intensity = 877.8368 \* Concentration - 3.1355  
Correlation coefficient: 1.00000

B (249.772 nm)  
Intensity = 26245.5584 \* Concentration + 95.8878  
Correlation coefficient: 0.99999

Ba (230.424 nm)  
Intensity = 29321.4951 \* Concentration - 0.8080  
Correlation coefficient: 0.99998

Be (313.107 nm)  
Intensity = 1326571.1391 \* Concentration - 560.1169  
Correlation coefficient: 1.00000

Cd (214.439 nm)  
Intensity = 20698.1052 \* Concentration + 17.4112  
Correlation coefficient: 0.99999

Co (230.786 nm)  
Intensity = 8996.7004 \* Concentration - 2.0600  
Correlation coefficient: 0.99999

Cr (267.716 nm)  
Intensity = 42299.5277 \* Concentration - 2.3921  
Correlation coefficient: 1.00000

Cu (327.395 nm)  
Intensity = 49645.1444 \* Concentration + 16.2691  
Correlation coefficient: 0.99998

K (766.491 nm)  
Intensity = 2368.9819 \* Concentration + 32.5251  
Correlation coefficient: 0.99998

Mn (257.610 nm)  
Intensity = 271546.8696 \* Concentration + 1.5605  
Correlation coefficient: 0.99999

Mo (202.032 nm)  
Intensity = 8906.0477 \* Concentration + 10.3085  
Correlation coefficient: 1.00000

Na (588.995 nm)  
Intensity = 36305.8935 \* Concentration - 8147.9493  
Correlation coefficient: 1.00000

Ni (230.299 nm)  
Intensity = 6233.1533 \* Concentration - 21.8082  
Correlation coefficient: 0.99998

Pb (220.353 nm)  
Intensity = 2000.8516 \* Concentration + 6.1151  
Correlation coefficient: 0.99999

Sb (217.582 nm)  
Intensity = 1262.3989 \* Concentration + 0.0018  
Correlation coefficient: 1.00000

Se (196.026 nm)  
Intensity = 870.9534 \* Concentration - 1.0486  
Correlation coefficient: 0.99999

Sn (189.925 nm)  
Intensity = 1134.0023 \* Concentration + 0.6261  
Correlation coefficient: 0.99999

Ti (336.122 nm)  
Intensity = 168685.9549 \* Concentration - 587.4476  
Correlation coefficient: 1.00000

Tl (351.923 nm)  
Intensity = 2217.5439 \* Concentration + 16.4963  
Correlation coefficient: 0.99996

V (292.401 nm)  
Intensity = 30479.8716 \* Concentration + 135.6968  
Correlation coefficient: 1.00000

Zn (213.857 nm)  
Intensity = 28530.5656 \* Concentration - 30.2821  
Correlation coefficient: 1.00000

Al (394.401 nm)  
Intensity = 10265.6139 \* Concentration + 122.6716  
Correlation coefficient: 0.99985

Ca (227.547 nm)  
Intensity = 45.2441 \* Concentration + 4.3611  
Correlation coefficient: 0.99995

Fe (234.350 nm)  
Intensity = 9721.6381 \* Concentration + 19.8245  
Correlation coefficient: 0.99999

Mg (279.078 nm)  
Intensity = 1823.9273 \* Concentration - 8.0948  
Correlation coefficient: 1.00000

Sr (216.596 nm)  
Intensity = 13195.9134 \* Concentration + 0.6197  
Correlation coefficient: 0.99999

# Preparation Information Benchsheet

Prep Run#: 309844  
 Team: Metals/NMANSEN

Prep Workflow: MetDigSICP  
 Prep Method: EPA 3050B

Status: Prepped  
 Prep Date/Time: 3/13/18 11:44 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802210-01	MB		1.0g	6010C/Ag T, Al T, Al T DOD, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, Fe T DOD, K T, Mg T, Mn T, Mn T DOD, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Se T DOD, Sn T, Ti T, Ti T DOD, V T, Zn T, 6020A/Ag T DOD				100.00mL	White-Coarse/Colorless-Clear		HB: 1 Well: D2 Temperature: 95.0C/95.0C Correction Factor: 0.0C Corr. Temp: 95.0C/95.0C
2	RQ1802210-02	LCS		1.0g	6010C/Ag T, Al T, Al T DOD, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, Fe T DOD, K T, Mg T, Mn T, Mn T DOD, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Se T DOD, Sn T, Ti T, Ti T DOD, V T, Zn T				100.00mL	White-Coarse/Colorless-Clear	0.2000 mL/180703; 0.5000 mL/185685; 0.1000 mL/180701; 1.0000 mL/185995; 1.0000 mL/185996	Digest on HB: 13:42 Digest off HB: 16:24
3	RQ1802210-05	LCS		1.0g	6020A/Ag T DOD				100.00mL	White-Coarse/Colorless-Clear	0.2000 mL/183937; 0.2000 mL/183938	
4	R1800843-002	ICP#6 Soil LODv	.01	1.0g	6010C/Al T DOD, Fe T DOD, Mn T DOD, Se T DOD, Ti T DOD				100.00mL	Colorless-Clear/Yellow-Clear		
5	R1800843-007	ICPMS ELAN Soil LODv	.01	1.0g	6020A/Ag T DOD				100.00mL	Colorless-Clear/Yellow-Clear		
6	R1800843-008	ICPMS AGILENT Soil LODv	.01	1.0g	6020A/Ag T DOD				100.00mL	Colorless-Clear/Yellow-Clear		
7	R1801861-002	B321 Road Excavation Total	.02	1.0g	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T				100.00mL	Brown-Medium/Yellow-Clear		
8	R1801889-001	February 2018 Filter Cake	.04	1.0500g	6010C/As T, Ba T, Cd T, Cr T, Cu T, K T, Mo T, Ni T, Pb T, Se T, Zn T				100.00mL	Black-Medium/Yellow-Clear		
9	R1802140-001	KL SLUDG-03082018-SL	.01	1.0g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T				100.00mL	Black-Fine/Yellow-Clear		
10	RQ1802210-03	R1802140-001 MS	.01	1.0400g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T				100.00mL	Black-Fine/Yellow-Clear	1.0000 mL/185996; 1.0000 mL/185995; 0.2000 mL/180703; 0.1000 mL/180701; 0.5000 mL/185685	
11	RQ1802210-04	R1802140-001 DMS	.01	1.0500g	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T				100.00mL	Black-Fine/Yellow-Clear	0.5000 mL/185685; 1.0000 mL/185995; 0.1000 mL/180701; 0.2000 mL/180703; 1.0000 mL/185996	

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name: ICPMS Calibration Standard 1 (10 ug/ml)	Inventory ID	183937	Logbook Ref:	M7600002K	Expires On:	09/18/2019	Lot #:	2160950

# Preparation Information Benchsheet

Prep Run#: 309844

Prep Workflow: MetDigSICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3050B

Prep Date/Time: 3/13/18 11:44 AM

Name: ICPMS Calibration Standard 2 (10 ug/mL Inventory ID 183938

Logbook Ref: M7600002J

Expires On: 06/03/2019

Lot #: 2150550

Name: Tin 1000 ug/mL Sn Inventory ID 185685

Logbook Ref: M7600003U

Expires On: 05/31/2019

Lot #: 1713622

Name: Custom LCS STD A Metals Inventory ID 185995

Logbook Ref: M7600003Y

Expires On: 05/20/2019

Lot #: 1007025

Name: Custom LCS STD B Metals Inventory ID 185996

Logbook Ref: M7600003Z

Expires On: 05/20/2019

Lot #: 1007025

## Preparation Materials

1:1 HCl Metals Grade M7600004D (187996)

1:1 Nitric Acid Metals Grade M7600004S (188218)

Hot Block Cups

50 mL Lot 1709027 (188497)

Hydrogen Peroxide 30% Reagent Grade H2O2 M7600002D (183458)

Nitric Acid Metals Grade HNO3 M7600004S (188217)

Thermometer

294 (12954)

## Preparation Steps

Step: Digestion

Started: 3/13/18 11:44

Finished: 3/13/18 19:44

By: NMANSEN

Comments

Comments:

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Chain of Custody

Relinquished By: Ncoat A

Date: 3/13/18

Extracts Examined

Received By: BAOI

Date: 3/13/18

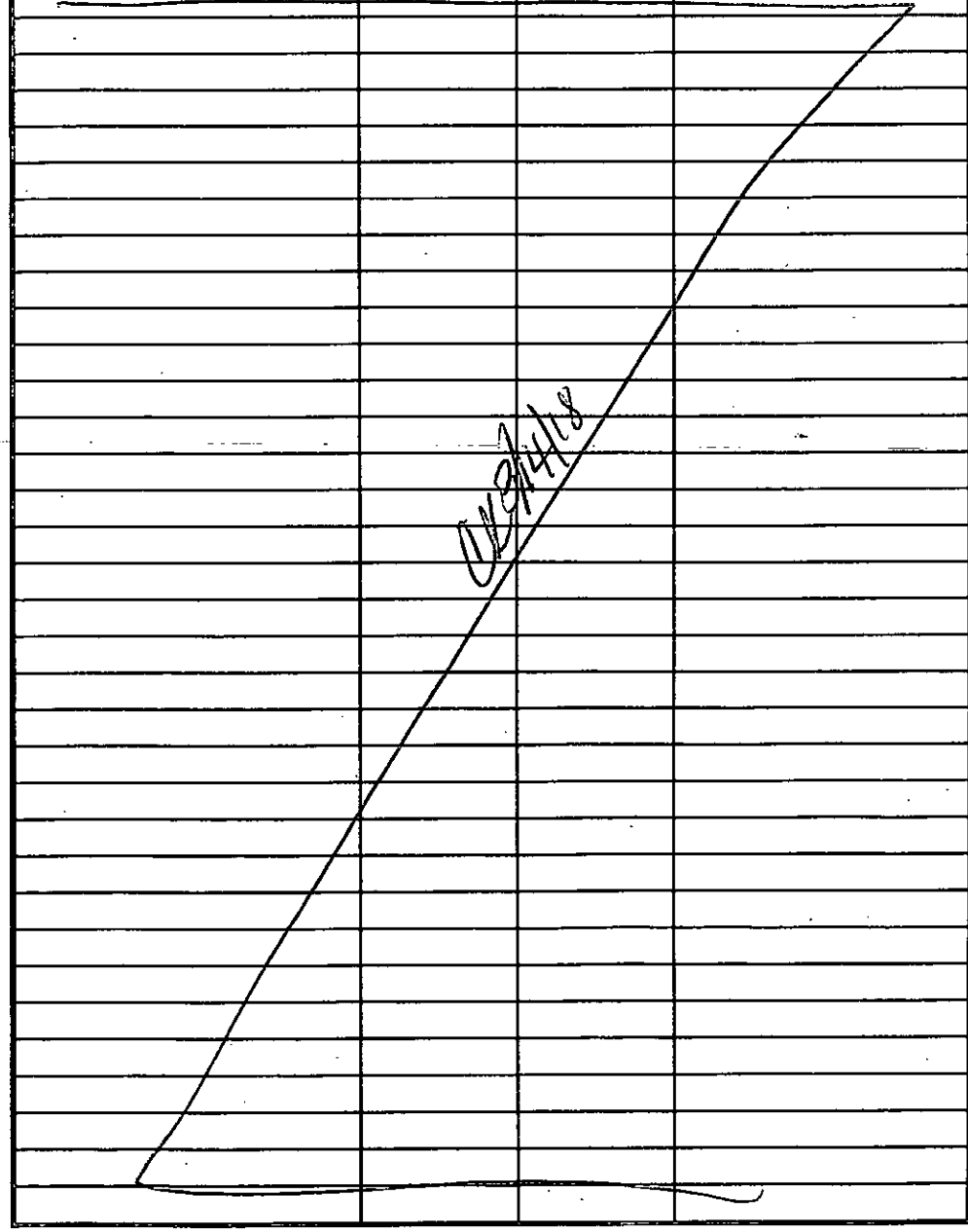
Yes No

Date: 3/13/18

Analyst: NM

Prep Number: 309842 + 309844

Sample	ICP (g)	Hg (g)	Sample Description
MB	1.00	0.60	W-C
LCS	1.00	0.60	W-C
ICP L02	1.00	-	C-CL
ICP L0D	1.00	-	C-CL
MS L02	1.00	-	C-CL
MS L0D	1.00	-	C-CL
R1801861-002	1.00	0.60	BK-M
R1801889-001	1.05	0.64	BK-M
R1802140-001	1.00	0.63	BK-F
↓ MS	1.04	0.61	BK-F
↓ MSD	1.05	0.64	BK-F



# Preparation Information Benchsheet

Prep Run#: 309874

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/13/18 04:08 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802248-01	MB		50mL	6010C/Ca T, Cd T, Cu T, Fe T, Fe T DOD, K T, Mg T, Mn T, Mn T DOD, Na T, Pb T	<2			50.00mL	Colorless-Clear		HB: 7 Well: D2 Temperature: 92.0C Correction Factor: 0.0C Corr. Temp: 92.0C
2	RQ1802248-02	LCS		50mL	6010C/Ca T, Cd T, Cu T, Fe T, Fe T DOD, K T, Mg T, Mn T, Mn T DOD, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185996; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185995	pH Started: 17:55 Digest on HB: 18:51 HB Shutoff: 04:51 3/14/18
3	R1801942-001	GW-1S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
4	R1801942-002	GW-1D	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
5	R1801942-003	NS-6S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
6	R1801942-004	NS-6S DUP	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R1801942-005	Equipemnt Blank	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801942-006	NS-6D	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	RQ1802248-03	R1801942-006 MS	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185996; 0.0500 mL/180701; 0.5000 mL/185995; 0.1000 mL/180703; 0.2500 mL/185685	
10	RQ1802248-04	R1801942-006 DMS	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701; 0.5000 mL/185996; 0.1000 mL/180703	
11	R1801942-007	NS-5S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801942-008	NS-5I	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801942-009	NS5D-03	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801942-010	GW-8D-03	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
15	R1801942-011	GW-8S-03	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R1801942-012	GW-10D	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R1801942-013	GW-10S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1802033-001	CV FLTS-PTW1-3718	.02	50mL	6010C/Fe T DOD, Mn T DOD	<2			50.00mL	Colorless-Clear		



# Preparation Information Benchsheet

Prep Run#: 309874

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:08 PM

19	RQ1802248-05	R1802033-001 MS	.12	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185996; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185995
20	RQ1802248-06	R1802033-001 DMS	.12	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/185996; 0.2500 mL/185685; 0.0500 mL/180701; 0.5000 mL/185995
21	R1802033-002	CV FLTS-EFF-3718	.02	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	
22	R1802033-003	CV FLTS-EFF-DUP-3718	.02	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	
23	R1802075-001	213 Blowdown	.01	50mL	6010C/Cu T	<2		50.00mL	Colorless-Clear	

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 1007025
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 1007025

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 293 (12952)

### Preparation Steps

Step: Digestion  
 Started: 3/13/18 16:08  
 Finished: 3/14/18 13:58  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/14/18</u>	Extracts Examined Yes No
Received By: <u>RAOIT</u>	Date: <u>3/14/18</u>	

# Preparation Information Benchsheet

Prep Run#: 309873

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/13/18 04:07 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802244-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: I Well: D2 Temperature: 92.0C Correction Factor: 0.0C Corr. Temp: 92.0C  Plunge Filtered
2	RQ1802244-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185995; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996	pH Started: 17:55 Digest on HB: 18:51 HB Shut off: 04:51 3/14/18  Plunge Filtered.
3	R1801820-001	SB915-3304-01,02,03	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ1802244-03	R1801820-001 MS	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185995; 0.5000 mL/185996; 0.1000 mL/180703; 0.0500 mL/180701; 0.2500 mL/185685	
5	RQ1802244-04	R1801820-001 DMS	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701; 0.5000 mL/185996; 0.1000 mL/180703	
6	R1801820-002	SB915-3304-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R1801820-003	SB915-3304-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801851-004	SCA-0264-01	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R1801851-005	SCA-0264-02	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1801941-002	Gas Condensate Grab	.20	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
11	R1801943-001	Maintenance Garage Tap	.03	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801944-002	MW-9B	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801944-003	MW-15B	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801944-004	MW-15D	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309873

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:07 PM

15	R1801944-005	MW-16B	.15	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
16	R1802040-001	1802280944A BLM-21-400	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
17	R1802040-008	1803061300A ST-6-528	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
18	R1802040-015	1803061330A ST-6-568	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
19	R1802040-020	1803061333B 600-G-138	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
20	R1802040-021	1803061334B 600-G-138	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
21	R1802055-001	Raw Leachate	.01	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2		50.00mL	Tan-Cloudy/Tan-Cloudy		Plunge Filtered
22	R1802055-002	Concentrate	.01	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2		50.00mL	Brown-Cloudy/Tan-Cloudy		Plunge Filtered
23	R1802137-002	MW-02	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear		Tier IV
24	RQ1802244-05	R1802137-002 MS	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear	0.5000 mL/185996; 0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701; 0.1000 mL/180703	
25	RQ1802244-06	R1802137-002 DMS	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear	0.5000 mL/185996; 0.0500 mL/180701; 0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185995	
26	R1802137-008	MW-08	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se

Inventory ID 180701

Logbook Ref: M7080014F

Expires On: 10/12/2018

Lot #: 163501

Name: Strontium 1000 ug/mL Sr

Inventory ID 180703

Logbook Ref: M7080014G

Expires On: 10/12/2018

Lot #: 161031

# Preparation Information Benchsheet

Prep Run#: 309873

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:07 PM

Name: Tin 1000 ug/mL Sn Inventory ID 185685

Logbook Ref: M7600003U

Expires On: 05/31/2019

Lot #: 1713622

Name: Custom LCS STD A Metals Inventory ID 185995

Logbook Ref: M7600003Y

Expires On: 05/20/2019

Lot #: 1007025

Name: Custom LCS STD B Metals Inventory ID 185996

Logbook Ref: M7600003Z

Expires On: 05/20/2019

Lot #: 1007025

## Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
Thermometer 293 (12952)

## Preparation Steps

Step: Digestion  
Started: 3/13/18 16:07  
Finished: 3/14/18 13:49  
By: NMANSEN  
Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

## Chain of Custody

Relinquished By: Nicol [Signature] Date: 3/14/18  
Received By: RAO [Signature] Date: 3/14/18

Extracts Examined

Yes No

# Preparation Information Benchsheet

Prep Run#: 309876  
 Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
 Prep Method: EPA 3005A/3010A

Status: Prepped  
 Prep Date/Time: 3/13/18 04:09 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802252-01	MB		50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D2 Temperature: 94.0C Correction Factor: 0.0C Corr. Temp: 94.0C
2	RQ1802252-02	LCS		50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185995; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996; 0.0500 mL/180701	pH Started: 17:55 Digest on HB: 18:56 HB Shutoff: 04:56 3/14/18
3	R1801868-001	SB915-3305-01,02,03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ1802252-03	R1801868-001 MS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/185995; 0.2500 mL/185685; 0.5000 mL/185996	
5	RQ1802252-04	R1801868-001 DMS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996; 0.5000 mL/185995	
6	R1801868-002	SB915-3305-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R1801868-003	SB915-3305-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801868-004	SB915-3305-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	R1801868-005	SB915-3305-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	R1801868-006	SB915-3305-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R1801868-007	SB915-3305-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801868-008	SB915-3305-10	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801868-009	SB915-3305-11	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801868-010	SB915-3305-12	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
15	R1801868-011	SB915-3306-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R1801868-012	SB915-3307-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R1801868-013	SB915-3307-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1801868-014	SB915-3307-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	R1801868-015	SB915-3307-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309876

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:09 PM

20	R1801868-016	SB915-3307-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
21	R1801868-017	SB915-3307-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
22	R1801868-018	SB915-3307-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
23	R1801868-019	SB915-3307-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
24	R1801868-020	SB915-3307-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 1007025
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 1007025

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 294 (12954)

### Preparation Steps

Step: Digestion  
 Started: 3/13/18 16:09  
 Finished: 3/14/18 14:21  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/14/18</u>	Extracts Examined Yes No
Received By: <u>RAO [Signature]</u>	Date: <u>3/14/18</u>	

# Preparation Information Benchsheet

Prep Run#: 310003

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/15/18 02:49 PM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802355-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: E3 Temperature: 93.5C Correction Factor: 0.0C Corr. Temp: 93.5C
2	RQ1802355-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/185996; 0.2500 mL/185685; 0.0500 mL/180701; 0.5000 mL/185995	pH Started: 15:52 Digest on HB: 16:16 HB Shutoff: 02:16 3/16/18
3	R1801979-001	SB915-3309-01,02,03	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ1802355-03	R1801979-001 MS	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185996; 0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/185995	
5	RQ1802355-04	R1801979-001 DMS	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/185996; 0.1000 mL/180703; 0.5000 mL/185995; 0.0500 mL/180701; 0.2500 mL/185685	
6	R1801979-002	SB915-3309-04	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R1801979-003	SB915-3309-05	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1802079-002	MW-306R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
9	R1802079-004	MW-306DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1802079-006	MW-502S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 310003

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/15/18 02:49 PM

11	R1802079-008	MW-502R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
12	R1802079-010	MW-502DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
13	R1802079-012	MW-302S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
14	R1802079-014	MW-302R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
15	RQ1802355-05	R1802079-014 MS	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185995; 0.5000 mL/185996; 0.2500 mL/185685; 0.1000 mL/180703	
16	RQ1802355-06	R1802079-014 DMS	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185995; 0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185996	
17	R1802103-001	Lot: 1969719	.01	5mL	6010C/Cu T, Se T, Zn T	<2		50.00mL	Colorless-Clear		Cu Str, Se 5X, Zn 20X
18	RQ1802355-07	R1802103-001 DUP	.01	5mL	6010C/Se T	<2		50.00mL	Colorless-Clear		Se 5X
19	R1802110-001	1803071012Y WW-3-569	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
20	R1802110-002	1803071317Y WW-3-569	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
21	R1802110-007	1803071405B BLM-7-509	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
22	R1802168-001	RR-4	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
23	R1802168-002	MW-223	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
24	R1802168-003	MW-312	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		



# Preparation Information Benchsheet

Prep Run#: 310003

Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP

Prep Method: EPA 3005A/3010A

Status: Prepped

Prep Date/Time: 3/15/18 02:49 PM

25	R1802168-004	DUP X	.06	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
26	R1802172-001	223.50.5-51 composite	.06	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		
27	R1802172-002	223.44-49 composite	.06	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 294 (12954)

### Preparation Steps

Step: Digestion  
 Started: 3/15/18 14:49  
 Finished: 3/16/18 16:13  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: Nicol [Signature] Date: 3/16/18 Extracts Examined  
 Received By: RAOIT Date: 3/16/18 Yes No

OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)  
 (ICV FOR ILM5.3 IS A 1/2 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600003A	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600003B	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600004Y	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600002K	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600002Q	1000	1.00		5.00
	B	M7600003I	1000	0.500		2.50
	MO	M7600003M	1000	0.500		2.50
	TI	M7600003K	1000	0.500		2.50
	SR	M7600002S	1000	0.500		2.50
	P		1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
CK 3/12/18	A	M7600003T 10%	M7600004D 5%	M34
NM 3/13/18	B	M7600003T 2%	M7600004D 5%	M35
NM 3/14/18	C	M7600003T 10%	M7600004D 5%	M35
CK 3/15/18	D	M7600003T 10%	M7600004D 5%	M34
NM 3/16/18	E	M7600003T 2%	M7600004D 5%	M34
NM 3/16/18	F	M7600003T 10%	M7600004D 5%	M35
	G			
	H			
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. 1 Int.	AL	M7620002E	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	M7080013X	5000	0.100		BELOW
	K		5000		0.500	
	MG		5000		0.500	
	NA		5000		0.500	
Single Element	BA	M7080014BB	1000	0.020		0.020
	CU	M7600001A	1000	0.010		0.010
	K	M7080014AA	10000	0.150		2.00
	MN	M7080011R	1000	0.010		0.010
	MO	M7600002V	1000	0.025		0.025
	SB	M7600001G	1000	0.010		0.010
	TL	M7600001N	1000	0.010		0.010
	ZN	M7600003V	1000	0.010		0.010
	P	-	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 3/13/18	A	M7600003T 2%	M7600004D 5%	3/20/18	M25 M35
NM 3/13/18	B	M7600003T 10%	M7600004D 5%	3/20/18	M25 M35
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3,4,5,6 CALIBRATION STANDARD #2**  
 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M7600001J	1000	0.100	1000	0.100
	AS	M7080011X	1000	0.010		0.010
	B	M7080012Z	1000	0.200		0.200
	BE	M7080012V (1/10)	100	0.030		0.003
	CA	M7080014Y	10000	0.100		1.00
	CD	M7080010N (1/10)	100	0.050		0.005
	CU	M7600001A	1000	0.020		0.020
	K	M7080014AA	10000	0.200		2.00
	MG	M7600002H	10000	0.100		1.00
	NA	M7080014Z	10000	0.100		1.00
	PB	M7080011S	1000	0.050		0.050
	SB	M7600001G	1000	0.060		0.060
	SE	M7080014F	1000	0.010		0.010
	SN	M7600003U	1000	0.500		0.500

Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 1/12/18	A	M7600003T 2%	M7600003D 5%	1/19/18	M34 M25
NM 1/12/18	B	M7600003T 10%	M7600003D 5%	1/19/18	M34 M25
NM 1/23/18	C	M7600003T 2%	M7600003D 5%	1/30/18	M34 M25
NM 1/23/18	D	M7600003T 10%	M7600003D 5%	1/30/18	M34 M25
NM 1/31/18	E	M7600003T 2%	M7600003D 5%	2/7/18	M34 M25
NM 1/31/18	F	M7600003T 10%	M7600003D 5%	2/7/18	M34 M25
NM 2/8/18	G	M7600003T 2%	M7600004D 5%	2/15/18	M34 M25
NM 2/8/18	H	M7600003T 10%	M7600004D 5%	2/15/18	M34 M25
NM 2/19/18	I	M7600003T 2%	M7600004D 5%	2/26/18	M34 M25
NM 2/19/18	J	M7600003T 10%	M7600004D 5%	2/26/18	M34 M25
NM 2/27/18	K	M7600003T 2%	M7600004D 5%	3/6/18	M34 M25
NM 2/27/18	L	M7600003T 10%	M7600004D 5%	3/6/18	M34 M25
CK 3/8/18	M	M7600003T 2%	M7600004D 5%	3/15/18	M25 M34
CK 3/8/18	N	M7600003T 10%	M7600004D 5%	3/15/18	M25 M34
NM 3/16/18	O	M7600003T 2%	M7600004D 5%	3/23/18	M25 M34
NM 3/16/18	P	M7600003T 10%	M7600004D 5%	3/23/18	M25 M34
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)**  
**(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)**  
**(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)**

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
	Cal Std 3		AL			M7600004B
BA		2000	20.0			
BE		50	0.500			
CO		500	5.00			
CU		250	2.50			
FE		1000	10.0			
V		500	5.00			
Cal Std 4		AS	M7600003G	100	4.00	
	CD	50		1.00		
	PB	50		1.00		
	SE	50		1.00		
	TL	100		2.00		
Single Metals	CA	M7080014Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M7080014AA	10000	1.00		50.0
	NA	M7080014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600003U	1000	2.00		10.0
	B	M7080012Z	1000	1.00		5.00
	MO	M7600002V	1000	1.00		5.00
	TI	M7080013R	1000	1.00		5.00
	SR	M7080014G	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot# Concentration	Hydrochloric Acid Lot # Concentration	Expiration Date	Pipet ID
NM 1/4/18	A	M7600003T 2%	M7600003D 5%	1/11/18	M34
NM 1/4/18	B	M7600003T 10%	M7600003D 5%	1/11/18	M34
NM 1/12/18	C	M7600003T 2%	M7600003D 5%	1/19/18	M34
NM 1/12/18	D	M7600003T 10%	M7600003D 5%	1/19/18	M34
NM 1/23/18	E	M7600003T 2%	M7600003D 5%	1/30/18	M34
NM 1/23/18	F	M7600003T 10%	M7600003D 5%	1/30/18	M34
NM 1/30/18	G	M7600003T 2%	M7600004D 5%	2/6/18	M34
NM 1/30/18	H	M7600003T 10%	M7600004D 5%	2/6/18	M34
NM 2/7/18	I	M7600003T 2%	M7600004D 5%	2/14/18	M34
NM 2/7/18	J	M7600003T 10%	M7600004D 5%	2/14/18	M34
CK 2/15/18	K	M7600003T 2%	M7600004D 5%	2/22/18	M34
CK 2/15/18	L	M7600003T 10%	M7600004D 5%	2/22/18	M34
NM 2/23/18	M	M7600003T 2%	M7600004D 5%	3/2/18	M34
NM 2/23/18	N	M7600003T 10%	M7600004D 5%	3/2/18	M34
CK 3/6/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
CK 3/6/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/8/18	Q	M7600003T 2%	M7600004D 5%	3/15/18	M34
NM 3/14/18	R	M7600003T 10%	M7600004D 5%	3/21/18	M35
NM 3/14/18	S	M7600003T 2%	M7600004D 5%	3/21/18	M35
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 31/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
	Cal Std 3	AL	M7600001R	2000	2.00	
BA			2000			40.0
BE			50			1.00
CO, V			500			10.0
CU			250			5.00
FE			1000			Below
Cal Std 4		AS, TL	M7600003G	100	4.00	
	CD, SE		50			2.00
	PB		50			Below
Single Metals	B	M7080012Z	1000	1.00		10.0
	MO	M7600002V	1000	1.00		10.0
	TI	M7080013R	1000	1.00		10.0
	SR	M7080014G	1000	1.00		10.0
	CA	M70800148Y	10000	2.50		250
	MG	M7600002H	10000	5.00		500
	NA	M7080014Z	10000	1.50		150
	CR	M7080012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M7600002G	10000	4.60		500
	MN	M708001R	1000	0.700		10.00
	PB	M708001IS	1000	0.800		10.0
	K	M7080014AA	10000	1.50		150

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 1/11/18	A	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	B	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/26/18	C	M7600003T 2%	M7600004D 5%	2/9/18	M34
NM 1/26/18	D	M7600003T 10%	M7600004D 5%	2/9/18	M34
NM 2/12/18	E	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	F	M7600003T 10%	M7600004D 5%	2/26/18	M34
NM 2/27/18	G	M7600003T 2%	M7600004D 5%	3/13/18	M34
NM 2/27/18	H	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/14/18	I	M7600003T 2%	M7600004D 5%	3/28/18	M35
NM 3/14/18	J	M7600003T 10%	M7600004D 5%	3/28/18	M35
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

**OPTIMA 3/4/5/6 HLCCV3**

(Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M7080004Y	10000	2.00	100	200
	CU	M7600001A	1000	0.40		4.00
	FE	M7600001C	10000	0.40		40.0
	K	M7080004AA	10000	1.00		100
	TL	M7600001N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 11/8/17	A	M7600002W 2%	M7600003D 5%	11/22/17	M35
NM 11/8/17	B	M7600002W 10%	M7600003D 5%	11/22/17	M35
NM 11/22/17	C	M7600002W 2%	M7600003D 5%	12/6/17	M35
NM 11/22/17	D	M7600002W 10%	M7600003D 5%	12/6/17	M35
NM 12/7/17	E	M7600003T 2%	M7600003D 5%	12/21/17	M35
NM 12/7/17	F	M7600003T 10%	M7600003D 5%	12/21/17	M35
NM 12/27/17	G	M7600003T 2%	M7600003D 5%	1/10/18	M35
NM 12/27/17	H	M7600003T 10%	M7600003D 5%	1/10/18	M35
NM 1/11/18	I	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	J	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/26/18	K	M7600003T 2%	M7600004D 5%	2/4/18	M34
NM 1/26/18	L	M7600003T 10%	M7600004D 5%	2/4/18	M34
NM 2/12/18	M	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	N	M7600003T 10%	M7600004D 5%	2/26/18	M34
NM 2/27/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
NM 2/27/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/4/18	Q	M7600003T 2%	M7600004D 5%	3/28/18	M35
NM 3/14/18	R	M7600003T 10%	M7600004D 5%	3/28/18	M35
	S				

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7080013X	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M7600002L	100	0.100		0.0100
	CR		100		0.0100	
	MN		150		0.0150	
	NI		400		0.0400	
	ZN		200		0.0200	
Cal Std 3	AL	M7600001R	2000	0.100		0.200
	BA		2000		0.200	
	BE		50		0.0050	
	CO		500		0.0500	
	CU		250		0.0250	
	FE		1000		0.100	
	V		500		0.0500	
Cal Std 4	AS	M7600001I	100	0.200		0.0200
	CD		50		0.0100	
	PB		50		0.0100	
	SE		50		0.0100	
	TL		100		0.0200	
Single Metals	B	M7080012Z	1000	0.200		0.200
	MO	M7600002V	1000	0.025		0.0250
	SN	M7600002T	1000	0.500		0.500
	TI	M7080013R	1000	0.050		0.0500
	SB	M7600001G	1000	0.060		0.0600
	SR	M7080014G	1000	0.100		0.100
	P		1000	0.100		0.100

Analyst/Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/22/17	A	M7600002W 2%	M7600003D 5%	5/22/18	M25/M35
NM 11/22/17	B	M7600002W 10%	M7600003D 5%	5/22/18	M25/M35
NM 1/29/18	C	M7600002W 10%	M7600003D 5%	7/29/18	M25/M35
	D		4D		
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				



OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M7600002W 10%	M7600002I 5%	4/13/18	volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

✓ CM 10/30/17

OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M7080013Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/9/17	A	M7600002N 10%	M7600003D 5%	5/9/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
NM 7/29/18	D	M7600003T 2%	M7600004D 5%	7/29/18	Volumetric
NM 7/29/18	E	M7600003T 10%	M7600004D 5%	7/29/18	Volumetric
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

N/A  
7/29/18

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
						5 % HCl 2% HNO <sub>3</sub>	NM 11/9/17	A	M7600002W	M7600003D	5/9/18	M35
Y	M7600003F	10000	2.0	2000	10.0		NM 11/27/17	B	M7600002W	M7600003D	5/27/18	M35
CS	M7600003E	10000	2.0		10.0		NM 11/28/17	C	M7600002W	M7600003D	5/28/18	M35
							NM 11/30/17	D	M7600003T	M7600003D	5/30/18	M35
							NM 12/8/17	E	M7600003T	M7600003D	6/8/18	M35
							NM 12/15/17	F	M7600003T	M7600003D	6/15/18	M35
							NM 12/28/17	G	M7600003T	M7600003D	6/28/18	M35
							NM 1/15/18	H	M7600003T	M7600003D	7/15/18	M34
							NM 1/29/18	I	M7600003T	M7600004D	7/29/18	M34
							NM 2/13/18	J	M7600003T	M7600004D	8/13/18	M34
							NM 2/20/18	K	M7600003T	M7600004D	8/20/18	M34
							CK 3/16/18	L	M7600003T	M7600004D	9/16/18	M34
							NM 3/14/18	M	M7600003T	M7600004D	9/14/18	M35
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

## Sample Dilutions

 Analyst: NM

 Date 3/16/18

 Instrument: ICPG

 Analysis 6010C

### Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/100	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/1000	1	9	1/1000	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10000	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000

### Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583987 Method/Testcode: 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801889-001	Selenium, Total	N/A		Sludge, Solid	0.01 ppm	1.0500 g	0.95 mg/Kg # U	1 ✓	0.38	0.95			3/16/18 18:08:48	N	II
RQ1802248-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 18:15:27	N	II
RQ1802248-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	242 µg/L	1	10	20	97		3/16/18 18:18:47	N	II
R1802075-001	Copper, Total	N/A		Water	1.39 ppm	50 mL	13900 µg/L	10	100	200			3/16/18 18:22:06	N	II
R1802055-001	Sodium, Total	N/A		Water	22.48 ppm	50 mL	2250000 µg/L	100 ✓	40000	100000			3/16/18 18:42:00	N	II
R1802055-002	Potassium, Total	N/A		Water	24.75 mg/L	50 mL	2480000 µg/L	100 ✓	30000	200000			3/16/18 18:45:18	N	II
R1802055-002	Sodium, Total	N/A		Water	66.13 mg/L	50 mL	6610000 µg/L	100 ✓	40000	100000			3/16/18 18:45:18	N	II
R1802137-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1 ✓	4	10			3/16/18 18:48:38	Y	IV
RQ1802244-05	Arsenic, Total	MS	R1802137-002	Water	0.04 ppm	50 mL	43 µg/L	1	4	10	108		3/16/18 18:51:57	N	IV
RQ1802244-06	Arsenic, Total	DMS	R1802137-002	Water	0.05 ppm	50 mL	47 µg/L	1	4	10	118	9	3/16/18 18:55:16	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583988 Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802252-01	Calcium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			3/16/18 19:38:27	N	IV
RQ1802252-01	Sodium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			3/16/18 19:38:27	N	IV
RQ1802252-02	Calcium, Total	LCS		Water	1.79 ppm	50 mL	1790 µg/L	1	400	1000	90		3/16/18 19:41:47	N	IV
RQ1802252-02	Sodium, Total	LCS		Water	19.02 ppm	50 mL	19000 µg/L	1	400	1000	95		3/16/18 19:41:47	N	IV
R1801868-001	Calcium, Total	N/A		Water	109.65 ppm	50 mL	1100000 µg/L	10	4000	10000			3/16/18 19:45:06	Y	IV
R1801868-001	Sodium, Total	N/A		Water	59.97 ppm	50 mL	600000 µg/L	10	4000	10000			3/16/18 19:45:06	Y	IV
RQ1802252-03	Calcium, Total	MS	R1801868-001	Water	109.81 ppm	50 mL	1100000 µg/L	10	4000	10000	79		3/16/18 19:48:25	N	IV
RQ1802252-03	Sodium, Total	MS	R1801868-001	Water	61.71 ppm	50 mL	617000 µg/L	10	4000	10000	87		3/16/18 19:48:25	N	IV
RQ1802252-04	Calcium, Total	DMS	R1801868-001	Water	111.21 ppm	50 mL	1110000 µg/L	10	4000	10000	780*	1	3/16/18 19:51:44	N	IV
RQ1802252-04	Sodium, Total	DMS	R1801868-001	Water	62.50 ppm	50 mL	625000 µg/L	10	4000	10000	126*	1	3/16/18 19:51:44	N	IV
R1801868-002	Calcium, Total	N/A		Water	81.40 ppm	50 mL	814000 µg/L	10	4000	10000			3/16/18 20:01:41	N	IV
R1801868-002	Sodium, Total	N/A		Water	25.41 ppm	50 mL	254000 µg/L	10	4000	10000			3/16/18 20:01:41	N	IV
R1801868-003	Calcium, Total	N/A		Water	141.56 ppm	50 mL	1420000 µg/L	10	4000	10000			3/16/18 20:05:00	N	IV
R1801868-003	Sodium, Total	N/A		Water	40.78 ppm	50 mL	408000 µg/L	10	4000	10000			3/16/18 20:05:00	N	IV
R1801868-004	Calcium, Total	N/A		Water	44.68 ppm	50 mL	223000 µg/L	5	1600	5000			3/16/18 20:08:19	N	IV
R1801868-004	Sodium, Total	N/A		Water	12.41 ppm	50 mL	62100 µg/L	5	1900	5000			3/16/18 20:08:19	N	IV
R1801868-005	Calcium, Total	N/A		Water	67.55 ppm	50 mL	675000 µg/L	10	4000	10000			3/16/18 20:18:16	N	IV
R1801868-005	Sodium, Total	N/A		Water	32.60 ppm	50 mL	326000 µg/L	10	4000	10000			3/16/18 20:18:16	N	IV
R1801868-006	Calcium, Total	N/A		Water	64.94 ppm	50 mL	649000 µg/L	10	4000	10000			3/16/18 20:21:35	N	IV
R1801868-006	Sodium, Total	N/A		Water	22.91 ppm	50 mL	229000 µg/L	10	4000	10000			3/16/18 20:21:35	N	IV
R1801868-007	Calcium, Total	N/A		Water	112.01 ppm	50 mL	1120000 µg/L	10	4000	10000			3/16/18 20:24:54	N	IV
R1801868-007	Sodium, Total	N/A		Water	35.74 ppm	50 mL	357000 µg/L	10	4000	10000			3/16/18 20:24:54	N	IV
R1801868-008	Calcium, Total	N/A		Water	167.30 ppm	50 mL	1670000 µg/L	10	4000	10000			3/16/18 20:28:14	N	IV
R1801868-008	Potassium, Total	N/A		Water	8.86 ppm	50 mL	89000 µg/L	10	3000	20000			3/16/18 20:28:14	N	IV
R1801868-008	Sodium, Total	N/A		Water	59.65 ppm	50 mL	597000 µg/L	10	4000	10000			3/16/18 20:28:14	N	IV
R1801868-009	Calcium, Total	N/A		Water	98.71 ppm	50 mL	987000 µg/L	10	4000	10000			3/16/18 20:31:34	N	IV
R1801868-009	Sodium, Total	N/A		Water	33.79 ppm	50 mL	338000 µg/L	10	4000	10000			3/16/18 20:31:34	N	IV
R1801868-010	Calcium, Total	N/A		Water	61.76 ppm	50 mL	309000 µg/L	5	1600	5000			3/16/18 20:34:52	N	IV
R1801868-010	Sodium, Total	N/A		Water	16.93 ppm	50 mL	84600 µg/L	5	1900	5000			3/16/18 20:34:52	N	IV
R1801868-011	Calcium, Total	N/A		Water	89.92 ppm	50 mL	899000 µg/L	10	4000	10000			3/16/18 20:38:11	N	IV
R1801868-011	Sodium, Total	N/A		Water	31.63 ppm	50 mL	316000 µg/L	10	4000	10000			3/16/18 20:38:11	N	IV
R1801868-012	Calcium, Total	N/A		Water	83.43 ppm	50 mL	834000 µg/L	10	4000	10000			3/16/18 20:41:30	N	IV
R1801868-012	Sodium, Total	N/A		Water	23.46 ppm	50 mL	235000 µg/L	10	4000	10000			3/16/18 20:41:30	N	IV
R1801868-013	Calcium, Total	N/A		Water	82.45 ppm	50 mL	824000 µg/L	10	4000	10000			3/16/18 20:44:49	N	IV
R1801868-013	Sodium, Total	N/A		Water	25.77 ppm	50 mL	258000 µg/L	10	4000	10000			3/16/18 20:44:49	N	IV
R1801868-014	Potassium, Total	N/A		Water	9.74 ppm	50 mL	97000 µg/L	10	3000	20000			3/16/18 20:48:08	N	IV

for below

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583988 Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801868-015	Calcium, Total	N/A		Water	102.83 ppm	50 mL	514000 µg/L	5	1600	5000			3/16/18 20:58:06	N	IV
21801868-015	Sodium, Total	N/A		Water	6.97 ppm	50 mL	34900 µg/L	5	1900	5000			3/16/18 20:58:06	N	IV
21801868-016	Calcium, Total	N/A		Water	160.74 ppm	50 mL	804000 µg/L	5	1600	5000			3/16/18 21:01:24	N	IV
21801868-016	Sodium, Total	N/A		Water	17.05 ppm	50 mL	85300 µg/L	5	1900	5000			3/16/18 21:01:24	N	IV
21801868-017	Calcium, Total	N/A		Water	146.58 ppm	50 mL	733000 µg/L	5	1600	5000			3/16/18 21:04:43	N	IV
21801868-017	Sodium, Total	N/A		Water	13.18 ppm	50 mL	65900 µg/L	5	1900	5000			3/16/18 21:04:43	N	IV
21801868-018	Calcium, Total	N/A		Water	54.43 ppm	50 mL	1090000 µg/L	20	7000	20000			3/16/18 21:08:02	N	IV
21801868-018	Sodium, Total	N/A		Water	67.41 ppm	50 mL	1350000 µg/L	20	8000	20000			3/16/18 21:08:02	N	IV
21801868-019	Calcium, Total	N/A		Water	73.38 ppm	50 mL	734000 µg/L	10	4000	10000			3/16/18 21:11:22	N	IV
21801868-019	Sodium, Total	N/A		Water	72.67 ppm	50 mL	727000 µg/L	10	4000	10000			3/16/18 21:11:22	N	IV
21801868-020	Calcium, Total	N/A		Water	106.16 ppm	50 mL	531000 µg/L	5	1600	5000			3/16/18 21:14:41	N	IV
21801868-020	Sodium, Total	N/A		Water	17.56 ppm	50 mL	87800 µg/L	5	1900	5000			3/16/18 21:14:41	N	IV
21801868-014	Calcium, Total	N/A		Water	31.02 ppm	50 mL	3100000 µg/L	100	40000	100000			3/16/18 21:18:01	N	IV
21801868-014	Sodium, Total	N/A		Water	16.68 ppm	50 mL	1670000 µg/L	100	40000	100000			3/16/18 21:18:01	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989

Method/Testcode: 6010C/A1 T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzved	QC?	Tier
RQ1802355-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			3/16/18 21:44:33	N	IV
RQ1802355-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 21:44:33	N	IV
RQ1802355-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 21:44:33	N	IV
RQ1802355-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			3/16/18 21:44:33	N	IV
RQ1802355-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 21:44:33	N	IV
RQ1802355-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 21:44:33	N	IV
RQ1802355-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 21:44:33	N	IV
RQ1802355-01	Calcium, Total	MB		Water	-0.05 ppm	50 mL	1000 µg/L U	1	400	1000			3/16/18 21:44:33	N	IV
RQ1802355-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 21:44:33	N	IV
RQ1802355-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 21:44:33	N	IV
RQ1802355-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 21:44:33	N	IV
RQ1802355-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 21:44:33	N	IV
RQ1802355-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 21:44:33	N	IV
RQ1802355-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/16/18 21:44:33	N	IV
RQ1802355-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/16/18 21:44:33	N	IV
RQ1802355-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	4	25			3/16/18 21:44:33	N	IV
RQ1802355-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 21:44:33	N	IV
RQ1802355-01	Potassium, Total	MB		Water	-0.01 ppm	50 mL	2000 µg/L U	1	300	2000			3/16/18 21:44:33	N	IV
RQ1802355-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 21:44:33	N	IV
RQ1802355-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 21:44:33	N	IV
RQ1802355-01	Sodium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			3/16/18 21:44:33	N	IV
RQ1802355-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	3	100			3/16/18 21:44:33	N	IV
RQ1802355-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 21:44:33	N	IV
RQ1802355-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/16/18 21:44:33	N	IV
RQ1802355-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 21:44:33	N	IV
RQ1802355-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 21:44:33	N	IV
RQ1802355-02	Aluminum, Total	LCS		Water	1.83 ppm	50 mL	1830 µg/L	1	100	100	92		3/16/18 21:47:52	N	IV
RQ1802355-02	Antimony, Total	LCS		Water	0.47 ppm	50 mL	474 µg/L	1	8	60	95		3/16/18 21:47:52	N	IV
RQ1802355-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	38.2 µg/L	1	4	10	96		3/16/18 21:47:52	N	IV
RQ1802355-02	Barium, Total	LCS		Water	2.02 ppm	50 mL	2020 µg/L	1	13	20	101		3/16/18 21:47:52	N	IV
RQ1802355-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	49.2 µg/L	1	0.7	3.0	98		3/16/18 21:47:52	N	IV
RQ1802355-02	Boron, Total	LCS		Water	0.97 ppm	50 mL	966 µg/L	1	80	200	97		3/16/18 21:47:52	N	IV
RQ1802355-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	52.0 µg/L	1	0.9	5.0	104		3/16/18 21:47:52	N	IV
RQ1802355-02	Calcium, Total	LCS		Water	1.81 ppm	50 mL	1810 µg/L	1	400	1000	90		3/16/18 21:47:52	N	IV
RQ1802355-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	204 µg/L	1	3	10	102		3/16/18 21:47:52	N	IV
RQ1802355-02	Cobalt, Total	LCS		Water	0.51 ppm	50 mL	515 µg/L	1	3	50	103		3/16/18 21:47:52	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

583989

Method/Testcode: 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802355-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	243 µg/L	1	10	20	97		3/16/18 21:47:52	N	IV
2Q1802355-02	Iron, Total	LCS		Water	1.00 ppm	50 mL	1000 µg/L	1	80	100	100		3/16/18 21:47:52	N	IV
2Q1802355-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	508 µg/L	1	4	50	102		3/16/18 21:47:52	N	IV
2Q1802355-02	Magnesium, Total	LCS		Water	1.95 ppm	50 mL	1950 µg/L	1	300	1000	97		3/16/18 21:47:52	N	IV
2Q1802355-02	Manganese, Total	LCS		Water	0.50 ppm	50 mL	501 µg/L	1	5	10	100		3/16/18 21:47:52	N	IV
2Q1802355-02	Molybdenum, Total	LCS		Water	0.49 ppm	50 mL	491 µg/L	1	4	25	98		3/16/18 21:47:52	N	IV
2Q1802355-02	Nickel, Total	LCS		Water	0.50 ppm	50 mL	503 µg/L	1	9	40	101		3/16/18 21:47:52	N	IV
2Q1802355-02	Potassium, Total	LCS		Water	18.99 ppm	50 mL	19000 µg/L	1	300	2000	95		3/16/18 21:47:52	N	IV
2Q1802355-02	Selenium, Total	LCS		Water	1.05 ppm	50 mL	1050 µg/L	1	4	10	104		3/16/18 21:47:52	N	IV
2Q1802355-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	49.2 µg/L	1	2	10	98		3/16/18 21:47:52	N	IV
2Q1802355-02	Sodium, Total	LCS		Water	19.13 ppm	50 mL	19100 µg/L	1	400	1000	96		3/16/18 21:47:52	N	IV
2Q1802355-02	Strontium, Total	LCS		Water	2.03 ppm	50 mL	2030 µg/L	1	3	100	102		3/16/18 21:47:52	N	IV
2Q1802355-02	Thallium, Total	LCS		Water	1.86 ppm	50 mL	1860 µg/L	1	6	10	93		3/16/18 21:47:52	N	IV
2Q1802355-02	Tin, Total	LCS		Water	5.01 ppm	50 mL	5010 µg/L	1	30	500	100		3/16/18 21:47:52	N	IV
2Q1802355-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	487 µg/L	1	3	50	97		3/16/18 21:47:52	N	IV
2Q1802355-02	Zinc, Total	LCS		Water	0.48 ppm	50 mL	483 µg/L	1	7	20	97		3/16/18 21:47:52	N	IV
21801979-001	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L	U 1	100	100			3/16/18 21:51:11	Y	IV
21801979-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U 1	8	60			3/16/18 21:51:11	Y	IV
21801979-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 21:51:11	Y	IV
21801979-001	Barium, Total	N/A		Water	0.44 ppm	50 mL	444 µg/L	1	13	20			3/16/18 21:51:11	Y	IV
21801979-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U 1	0.7	3.0			3/16/18 21:51:11	Y	IV
21801979-001	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L	U 1	80	200			3/16/18 21:51:11	Y	IV
21801979-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U 1	0.9	5.0			3/16/18 21:51:11	Y	IV
21801979-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	3	10			3/16/18 21:51:11	Y	IV
21801979-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 21:51:11	Y	IV
21801979-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L	U 1	10	20			3/16/18 21:51:11	Y	IV
21801979-001	Iron, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L	U 1	80	100			3/16/18 21:51:11	Y	IV
21801979-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	4	50			3/16/18 21:51:11	Y	IV
21801979-001	Magnesium, Total	N/A		Water	6.40 ppm	50 mL	6400 µg/L	1	300	1000			3/16/18 21:51:11	Y	IV
21801979-001	Manganese, Total	N/A		Water	0.08 ppm	50 mL	77 µg/L	1	5	10			3/16/18 21:51:11	Y	IV
21801979-001	Nickel, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L	J 1	9	40			3/16/18 21:51:11	Y	IV
21801979-001	Potassium, Total	N/A		Water	71.31 ppm	50 mL	71300 µg/L	1	300	2000			3/16/18 21:51:11	Y	IV
21801979-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 21:51:11	Y	IV
21801979-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	2	10			3/16/18 21:51:11	Y	IV
21801979-001	Thallium, Total	N/A		Water	0.03 ppm	50 mL	30 µg/L	1	6	10			3/16/18 21:51:11	Y	IV
21801979-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L	U 1	30	500			3/16/18 21:51:11	Y	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989 Method/Testcode: 6010C/V T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801979-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 21:51:11	Y	IV
21801979-001	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L	U 1	7	20			3/16/18 21:51:11	Y	IV
21802355-03	Aluminum, Total	MS	R1801979-001	Water	2.38 ppm	50 mL	2380 µg/L	1	100	100	119		3/16/18 21:54:30	N	IV
21802355-03	Antimony, Total	MS	R1801979-001	Water	0.50 ppm	50 mL	501 µg/L	1	8	60	100		3/16/18 21:54:30	N	IV
21802355-03	Arsenic, Total	MS	R1801979-001	Water	0.04 ppm	50 mL	43 µg/L	1	4	10	107		3/16/18 21:54:30	N	IV
21802355-03	Barium, Total	MS	R1801979-001	Water	2.38 ppm	50 mL	2380 µg/L	1	13	20	97		3/16/18 21:54:30	N	IV
21802355-03	Beryllium, Total	MS	R1801979-001	Water	0.05 ppm	50 mL	47.0 µg/L	1	0.7	3.0	94		3/16/18 21:54:30	N	IV
21802355-03	Boron, Total	MS	R1801979-001	Water	1.07 ppm	50 mL	1070 µg/L	1	80	200	107		3/16/18 21:54:30	N	IV
21802355-03	Cadmium, Total	MS	R1801979-001	Water	0.05 ppm	50 mL	47.8 µg/L	1	0.9	5.0	96		3/16/18 21:54:30	N	IV
21802355-03	Chromium, Total	MS	R1801979-001	Water	0.19 ppm	50 mL	194 µg/L	1	3	10	97		3/16/18 21:54:30	N	IV
21802355-03	Cobalt, Total	MS	R1801979-001	Water	0.49 ppm	50 mL	488 µg/L	1	3	50	98		3/16/18 21:54:30	N	IV
21802355-03	Copper, Total	MS	R1801979-001	Water	0.28 ppm	50 mL	278 µg/L	1	10	20	111		3/16/18 21:54:30	N	IV
21802355-03	Iron, Total	MS	R1801979-001	Water	1.02 ppm	50 mL	1020 µg/L	1	80	100	102		3/16/18 21:54:30	N	IV
21802355-03	Lead, Total	MS	R1801979-001	Water	0.50 ppm	50 mL	496 µg/L	1	4	50	99		3/16/18 21:54:30	N	IV
21802355-03	Magnesium, Total	MS	R1801979-001	Water	8.35 ppm	50 mL	8300 µg/L	1	300	1000	97		3/16/18 21:54:30	N	IV
21802355-03	Manganese, Total	MS	R1801979-001	Water	0.56 ppm	50 mL	562 µg/L	1	5	10	97		3/16/18 21:54:30	N	IV
21802355-03	Nickel, Total	MS	R1801979-001	Water	0.48 ppm	50 mL	480 µg/L	1	9	40	94		3/16/18 21:54:30	N	IV
21802355-03	Potassium, Total	MS	R1801979-001	Water	93.92 ppm	50 mL	93900 µg/L	1	300	2000	113		3/16/18 21:54:30	N	IV
21802355-03	Selenium, Total	MS	R1801979-001	Water	1.11 ppm	50 mL	1110 µg/L	1	4	10	110		3/16/18 21:54:30	N	IV
21802355-03	Silver, Total	MS	R1801979-001	Water	0.05 ppm	50 mL	55 µg/L	1	2	10	109		3/16/18 21:54:30	N	IV
21802355-03	Thallium, Total	MS	R1801979-001	Water	2.29 ppm	50 mL	2290 µg/L	1	6	10	113		3/16/18 21:54:30	N	IV
21802355-03	Tin, Total	MS	R1801979-001	Water	4.84 ppm	50 mL	4840 µg/L	1	30	500	97		3/16/18 21:54:30	N	IV
21802355-03	Vanadium, Total	MS	R1801979-001	Water	0.49 ppm	50 mL	490 µg/L	1	3	50	98		3/16/18 21:54:30	N	IV
21802355-03	Zinc, Total	MS	R1801979-001	Water	0.50 ppm	50 mL	499 µg/L	1	7	20	100		3/16/18 21:54:30	N	IV
21802355-04	Aluminum, Total	DMS	R1801979-001	Water	2.37 ppm	50 mL	2370 µg/L	1	100	100	118	<1	3/16/18 21:57:49	N	IV
21802355-04	Antimony, Total	DMS	R1801979-001	Water	0.50 ppm	50 mL	502 µg/L	1	8	60	100	<1	3/16/18 21:57:49	N	IV
21802355-04	Arsenic, Total	DMS	R1801979-001	Water	0.04 ppm	50 mL	43 µg/L	1	4	10	108	<1	3/16/18 21:57:49	N	IV
21802355-04	Barium, Total	DMS	R1801979-001	Water	2.38 ppm	50 mL	2380 µg/L	1	13	20	97	<1	3/16/18 21:57:49	N	IV
21802355-04	Beryllium, Total	DMS	R1801979-001	Water	0.05 ppm	50 mL	46.8 µg/L	1	0.7	3.0	94	<1	3/16/18 21:57:49	N	IV
21802355-04	Boron, Total	DMS	R1801979-001	Water	1.06 ppm	50 mL	1060 µg/L	1	80	200	106	<1	3/16/18 21:57:49	N	IV
21802355-04	Cadmium, Total	DMS	R1801979-001	Water	0.05 ppm	50 mL	47.8 µg/L	1	0.9	5.0	96	<1	3/16/18 21:57:49	N	IV
21802355-04	Chromium, Total	DMS	R1801979-001	Water	0.19 ppm	50 mL	194 µg/L	1	3	10	97	<1	3/16/18 21:57:49	N	IV
21802355-04	Cobalt, Total	DMS	R1801979-001	Water	0.49 ppm	50 mL	487 µg/L	1	3	50	97	<1	3/16/18 21:57:49	N	IV
21802355-04	Copper, Total	DMS	R1801979-001	Water	0.28 ppm	50 mL	278 µg/L	1	10	20	111	<1	3/16/18 21:57:49	N	IV
21802355-04	Iron, Total	DMS	R1801979-001	Water	1.02 ppm	50 mL	1020 µg/L	1	80	100	102	<1	3/16/18 21:57:49	N	IV
21802355-04	Lead, Total	DMS	R1801979-001	Water	0.49 ppm	50 mL	492 µg/L	1	4	50	98	<1	3/16/18 21:57:49	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989 Method/Testcode: 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802355-04	Magnesium, Total	DMS	R1801979-001	Water	8.29 ppm	50 mL	8300 µg/L	1	300	1000	94	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Manganese, Total	DMS	R1801979-001	Water	0.56 ppm	50 mL	560 µg/L	1	5	10	97	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Nickel, Total	DMS	R1801979-001	Water	0.48 ppm	50 mL	477 µg/L	1	9	40	94	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Potassium, Total	DMS	R1801979-001	Water	93.14 ppm	50 mL	93100 µg/L	1	300	2000	109	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Selenium, Total	DMS	R1801979-001	Water	1.11 ppm	50 mL	1110 µg/L	1	4	10	110	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Silver, Total	DMS	R1801979-001	Water	0.05 ppm	50 mL	54 µg/L	1	2	10	109	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Thallium, Total	DMS	R1801979-001	Water	2.28 ppm	50 mL	2280 µg/L	1	6	10	112	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Tin, Total	DMS	R1801979-001	Water	4.85 ppm	50 mL	4850 µg/L	1	30	500	97	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Vanadium, Total	DMS	R1801979-001	Water	0.49 ppm	50 mL	488 µg/L	1	3	50	98	<1	3/16/18 21:57:49	N	IV
2Q1802355-04	Zinc, Total	DMS	R1801979-001	Water	0.50 ppm	50 mL	501 µg/L	1	7	20	100	<1	3/16/18 21:57:49	N	IV
21801979-002	Aluminum, Total	N/A		Water	0.11 ppm	50 mL	110 µg/L	1	100	100			3/16/18 22:07:46	N	IV
21801979-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U 1	8	60			3/16/18 22:07:46	N	IV
21801979-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 22:07:46	N	IV
21801979-002	Barium, Total	N/A		Water	0.88 ppm	50 mL	875 µg/L	1	13	20			3/16/18 22:07:46	N	IV
21801979-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U 1	0.7	3.0			3/16/18 22:07:46	N	IV
21801979-002	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L	U 1	80	200			3/16/18 22:07:46	N	IV
21801979-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U 1	0.9	5.0			3/16/18 22:07:46	N	IV
21801979-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	3	10			3/16/18 22:07:46	N	IV
21801979-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 22:07:46	N	IV
21801979-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L	U 1	10	20			3/16/18 22:07:46	N	IV
21801979-002	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L	U 1	80	100			3/16/18 22:07:46	N	IV
21801979-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	4	50			3/16/18 22:07:46	N	IV
21801979-002	Magnesium, Total	N/A		Water	0.04 ppm	50 mL	1000 µg/L	U 1	300	1000			3/16/18 22:07:46	N	IV
21801979-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	5	10			3/16/18 22:07:46	N	IV
21801979-002	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L	U 1	9	40			3/16/18 22:07:46	N	IV
21801979-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 22:07:46	N	IV
21801979-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	2	10			3/16/18 22:07:46	N	IV
21801979-002	Thallium, Total	N/A		Water	0.13 ppm	50 mL	128 µg/L	1	6	10			3/16/18 22:07:46	N	IV
21801979-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L	U 1	30	500			3/16/18 22:07:46	N	IV
21801979-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 22:07:46	N	IV
21801979-002	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L	U 1	7	20			3/16/18 22:07:46	N	IV
21801979-003	Aluminum, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	100	100			3/16/18 22:11:06	N	IV
21801979-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U 1	8	60			3/16/18 22:11:06	N	IV
21801979-003	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 22:11:06	N	IV
21801979-003	Barium, Total	N/A		Water	0.87 ppm	50 mL	874 µg/L	1	13	20			3/16/18 22:11:06	N	IV
21801979-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U 1	0.7	3.0			3/16/18 22:11:06	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989 Method/Testcode: 6010C/B T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801979-003	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:11:06	N	IV
21801979-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:11:06	N	IV
21801979-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:11:06	N	IV
21801979-003	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:11:06	N	IV
21801979-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:11:06	N	IV
21801979-003	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 22:11:06	N	IV
21801979-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:11:06	N	IV
21801979-003	Magnesium, Total	N/A		Water	0.03 ppm	50 mL	1000 µg/L U	1	300	1000			3/16/18 22:11:06	N	IV
21801979-003	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/16/18 22:11:06	N	IV
21801979-003	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:11:06	N	IV
21801979-003	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:11:06	N	IV
21801979-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:11:06	N	IV
21801979-003	Thallium, Total	N/A		Water	0.13 ppm	50 mL	125 µg/L	1	6	10			3/16/18 22:11:06	N	IV
21801979-003	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/16/18 22:11:06	N	IV
21801979-003	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:11:06	N	IV
21801979-003	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:11:06	N	IV
21802079-002	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	100	100			3/16/18 22:14:25	N	IV
21802079-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:14:25	N	IV
21802079-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:14:25	N	IV
21802079-002	Barium, Total	N/A		Water	0.11 ppm	50 mL	109 µg/L	1	13	20			3/16/18 22:14:25	N	IV
21802079-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:14:25	N	IV
21802079-002	Boron, Total	N/A		Water	0.03 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:14:25	N	IV
21802079-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:14:25	N	IV
21802079-002	Calcium, Total	N/A		Water	49.82 ppm	50 mL	49800 µg/L	1	400	1000			3/16/18 22:14:25	N	IV
21802079-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:14:25	N	IV
21802079-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:14:25	N	IV
21802079-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:14:25	N	IV
21802079-002	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			3/16/18 22:14:25	N	IV
21802079-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:14:25	N	IV
21802079-002	Magnesium, Total	N/A		Water	16.88 ppm	50 mL	16900 µg/L	1	300	1000			3/16/18 22:14:25	N	IV
21802079-002	Manganese, Total	N/A		Water	0.06 ppm	50 mL	64 µg/L	1	5	10			3/16/18 22:14:25	N	IV
21802079-002	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:14:25	N	IV
21802079-002	Potassium, Total	N/A		Water	3.16 ppm	50 mL	3200 µg/L	1	300	2000			3/16/18 22:14:25	N	IV
21802079-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:14:25	N	IV
21802079-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:14:25	N	IV
21802079-002	Sodium, Total	N/A		Water	8.52 ppm	50 mL	8500 µg/L	1	400	1000			3/16/18 22:14:25	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

583989

Method/Testcode: 6010C/TIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1802079-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:14:25	N	IV
1802079-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:14:25	N	IV
1802079-002	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:14:25	N	IV
1802079-004	Aluminum, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	100	100			3/16/18 22:24:22	N	IV
1802079-004	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:24:22	N	IV
1802079-004	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:24:22	N	IV
1802079-004	Barium, Total	N/A		Water	0.10 ppm	50 mL	100 µg/L U	1	13	20			3/16/18 22:24:22	N	IV
1802079-004	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:24:22	N	IV
1802079-004	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:24:22	N	IV
1802079-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:24:22	N	IV
1802079-004	Calcium, Total	N/A		Water	80.66 ppm	50 mL	80700 µg/L U	1	400	1000			3/16/18 22:24:22	N	IV
1802079-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:24:22	N	IV
1802079-004	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:24:22	N	IV
1802079-004	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:24:22	N	IV
1802079-004	Iron, Total	N/A		Water	0.31 ppm	50 mL	310 µg/L U	1	80	100			3/16/18 22:24:22	N	IV
1802079-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:24:22	N	IV
1802079-004	Magnesium, Total	N/A		Water	11.73 ppm	50 mL	11700 µg/L U	1	300	1000			3/16/18 22:24:22	N	IV
1802079-004	Manganese, Total	N/A		Water	0.05 ppm	50 mL	51 µg/L U	1	5	10			3/16/18 22:24:22	N	IV
1802079-004	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:24:22	N	IV
1802079-004	Potassium, Total	N/A		Water	2.62 ppm	50 mL	2600 µg/L U	1	300	2000			3/16/18 22:24:22	N	IV
1802079-004	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:24:22	N	IV
1802079-004	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:24:22	N	IV
1802079-004	Sodium, Total	N/A		Water	10.44 ppm	50 mL	10400 µg/L U	1	400	1000			3/16/18 22:24:22	N	IV
1802079-004	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:24:22	N	IV
1802079-004	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:24:22	N	IV
1802079-004	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:24:22	N	IV
1802079-006	Aluminum, Total	N/A		Water	0.20 ppm	50 mL	200 µg/L U	1	100	100			3/16/18 22:27:41	N	IV
1802079-006	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:27:41	N	IV
1802079-006	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:27:41	N	IV
1802079-006	Barium, Total	N/A		Water	0.09 ppm	50 mL	89 µg/L U	1	13	20			3/16/18 22:27:41	N	IV
1802079-006	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:27:41	N	IV
1802079-006	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:27:41	N	IV
1802079-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:27:41	N	IV
1802079-006	Calcium, Total	N/A		Water	57.29 ppm	50 mL	57300 µg/L U	1	400	1000			3/16/18 22:27:41	N	IV
1802079-006	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:27:41	N	IV
1802079-006	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:27:41	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989 Method/Testcode: 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802079-006	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:27:41	N	IV
21802079-006	Iron, Total	N/A		Water	0.18 ppm	50 mL	180 µg/L	1	80	100			3/16/18 22:27:41	N	IV
21802079-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:27:41	N	IV
21802079-006	Magnesium, Total	N/A		Water	14.50 ppm	50 mL	14500 µg/L	1	300	1000			3/16/18 22:27:41	N	IV
21802079-006	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/16/18 22:27:41	N	IV
21802079-006	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:27:41	N	IV
21802079-006	Potassium, Total	N/A		Water	1.89 ppm	50 mL	2000 µg/L U	1	300	2000			3/16/18 22:27:41	N	IV
21802079-006	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:27:41	N	IV
21802079-006	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:27:41	N	IV
21802079-006	Sodium, Total	N/A		Water	9.58 ppm	50 mL	9600 µg/L	1	400	1000			3/16/18 22:27:41	N	IV
21802079-006	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:27:41	N	IV
21802079-006	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:27:41	N	IV
21802079-006	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:27:41	N	IV
21802079-008	Aluminum, Total	N/A		Water	0.46 ppm	50 mL	460 µg/L	1	100	100			3/16/18 22:31:00	N	IV
21802079-008	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:31:00	N	IV
21802079-008	Arsenic, Total	N/A		Water	0.13 ppm	50 mL	130 µg/L	1	4	10			3/16/18 22:31:00	N	IV
21802079-008	Barium, Total	N/A		Water	0.16 ppm	50 mL	165 µg/L	1	13	20			3/16/18 22:31:00	N	IV
21802079-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:31:00	N	IV
21802079-008	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:31:00	N	IV
21802079-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:31:00	N	IV
21802079-008	Calcium, Total	N/A		Water	64.45 ppm	50 mL	64400 µg/L	1	400	1000			3/16/18 22:31:00	N	IV
21802079-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:31:00	N	IV
21802079-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:31:00	N	IV
21802079-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:31:00	N	IV
21802079-008	Iron, Total	N/A		Water	2.19 ppm	50 mL	2190 µg/L	1	80	100			3/16/18 22:31:00	N	IV
21802079-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:31:00	N	IV
21802079-008	Magnesium, Total	N/A		Water	18.61 ppm	50 mL	18600 µg/L	1	300	1000			3/16/18 22:31:00	N	IV
21802079-008	Manganese, Total	N/A		Water	0.30 ppm	50 mL	301 µg/L	1	5	10			3/16/18 22:31:00	N	IV
21802079-008	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:31:00	N	IV
21802079-008	Potassium, Total	N/A		Water	2.53 ppm	50 mL	2500 µg/L	1	300	2000			3/16/18 22:31:00	N	IV
21802079-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:31:00	N	IV
21802079-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:31:00	N	IV
21802079-008	Sodium, Total	N/A		Water	10.55 ppm	50 mL	10600 µg/L	1	400	1000			3/16/18 22:31:00	N	IV
21802079-008	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:31:00	N	IV
21802079-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:31:00	N	IV
21802079-008	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:31:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989

Method/Testcode: 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802079-010	Aluminum, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	100	100			3/16/18 22:34:19	N	IV
21802079-010	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:34:19	N	IV
21802079-010	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:34:19	N	IV
21802079-010	Barium, Total	N/A		Water	0.14 ppm	50 mL	143 µg/L	1	13	20			3/16/18 22:34:19	N	IV
21802079-010	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:34:19	N	IV
21802079-010	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:34:19	N	IV
21802079-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:34:19	N	IV
21802079-010	Calcium, Total	N/A		Water	79.38 ppm	50 mL	79400 µg/L	1	400	1000			3/16/18 22:34:19	N	IV
21802079-010	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:34:19	N	IV
21802079-010	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:34:19	N	IV
21802079-010	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:34:19	N	IV
21802079-010	Iron, Total	N/A		Water	0.33 ppm	50 mL	330 µg/L	1	80	100			3/16/18 22:34:19	N	IV
21802079-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:34:19	N	IV
21802079-010	Magnesium, Total	N/A		Water	13.63 ppm	50 mL	13600 µg/L	1	300	1000			3/16/18 22:34:19	N	IV
21802079-010	Manganese, Total	N/A		Water	0.19 ppm	50 mL	186 µg/L	1	5	10			3/16/18 22:34:19	N	IV
21802079-010	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:34:19	N	IV
21802079-010	Potassium, Total	N/A		Water	2.24 ppm	50 mL	2200 µg/L	1	300	2000			3/16/18 22:34:19	N	IV
21802079-010	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:34:19	N	IV
21802079-010	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:34:19	N	IV
21802079-010	Sodium, Total	N/A		Water	12.99 ppm	50 mL	13000 µg/L	1	400	1000			3/16/18 22:34:19	N	IV
21802079-010	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:34:19	N	IV
21802079-010	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:34:19	N	IV
21802079-010	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:34:19	N	IV
21802079-012	Aluminum, Total	N/A		Water	0.42 ppm	50 mL	420 µg/L	1	100	100			3/16/18 22:37:38	N	IV
21802079-012	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:37:38	N	IV
21802079-012	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:37:38	N	IV
21802079-012	Barium, Total	N/A		Water	0.17 ppm	50 mL	166 µg/L	1	13	20			3/16/18 22:37:38	N	IV
21802079-012	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:37:38	N	IV
21802079-012	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:37:38	N	IV
21802079-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:37:38	N	IV
21802079-012	Calcium, Total	N/A		Water	51.19 ppm	50 mL	51200 µg/L	1	400	1000			3/16/18 22:37:38	N	IV
21802079-012	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:37:38	N	IV
21802079-012	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:37:38	N	IV
21802079-012	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:37:38	N	IV
21802079-012	Iron, Total	N/A		Water	0.64 ppm	50 mL	640 µg/L	1	80	100			3/16/18 22:37:38	N	IV
21802079-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:37:38	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989

Method/Testcode: 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1802079-012	Magnesium, Total	N/A		Water	14.34 ppm	50 mL	14300 µg/L	1	300	1000			3/16/18 22:37:38	N	IV
R1802079-012	Manganese, Total	N/A		Water	0.09 ppm	50 mL	88 µg/L	1	5	10			3/16/18 22:37:38	N	IV
R1802079-012	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:37:38	N	IV
R1802079-012	Potassium, Total	N/A		Water	1.71 ppm	50 mL	2000 µg/L U	1	300	2000			3/16/18 22:37:38	N	IV
R1802079-012	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:37:38	N	IV
R1802079-012	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:37:38	N	IV
R1802079-012	Sodium, Total	N/A		Water	10.40 ppm	50 mL	10400 µg/L	1	400	1000			3/16/18 22:37:38	N	IV
R1802079-012	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:37:38	N	IV
R1802079-012	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:37:38	N	IV
R1802079-012	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:37:38	N	IV
R1802079-014	Aluminum, Total	N/A		Water	0.10 ppm	50 mL	100 µg/L	1	100	100			3/16/18 22:40:57	Y	IV
R1802079-014	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/16/18 22:40:57	Y	IV
R1802079-014	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:40:57	Y	IV
R1802079-014	Barium, Total	N/A		Water	0.11 ppm	50 mL	110 µg/L	1	13	20			3/16/18 22:40:57	Y	IV
R1802079-014	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/16/18 22:40:57	Y	IV
R1802079-014	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	80	200			3/16/18 22:40:57	Y	IV
R1802079-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 22:40:57	Y	IV
R1802079-014	Calcium, Total	N/A		Water	62.90 ppm	50 mL	62900 µg/L	1	400	1000			3/16/18 22:40:57	Y	IV
R1802079-014	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 22:40:57	Y	IV
R1802079-014	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:40:57	Y	IV
R1802079-014	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/16/18 22:40:57	Y	IV
R1802079-014	Iron, Total	N/A		Water	0.08 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 22:40:57	Y	IV
R1802079-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 22:40:57	Y	IV
R1802079-014	Magnesium, Total	N/A		Water	17.23 ppm	50 mL	17200 µg/L	1	300	1000			3/16/18 22:40:57	Y	IV
R1802079-014	Manganese, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	5	10			3/16/18 22:40:57	Y	IV
R1802079-014	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 22:40:57	Y	IV
R1802079-014	Potassium, Total	N/A		Water	1.29 ppm	50 mL	2000 µg/L U	1	300	2000			3/16/18 22:40:57	Y	IV
R1802079-014	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 22:40:57	Y	IV
R1802079-014	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 22:40:57	Y	IV
R1802079-014	Sodium, Total	N/A		Water	7.16 ppm	50 mL	7200 µg/L	1	400	1000			3/16/18 22:40:57	Y	IV
R1802079-014	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 22:40:57	Y	IV
R1802079-014	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 22:40:57	Y	IV
R1802079-014	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/16/18 22:40:57	Y	IV
RQ1802355-05	Aluminum, Total	MS	R1802079-014	Water	2.07 ppm	50 mL	2070 µg/L	1	100	100	99		3/16/18 22:44:16	N	IV
RQ1802355-05	Antimony, Total	MS	R1802079-014	Water	0.49 ppm	50 mL	492 µg/L	1	8	60	98		3/16/18 22:44:16	N	IV
RQ1802355-05	Arsenic, Total	MS	R1802079-014	Water	0.04 ppm	50 mL	41 µg/L	1	4	10	102		3/16/18 22:44:16	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

583989

Method/Testcode: 6010C/Ba T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802355-05	Barium, Total	MS	R1802079-014	Water	2.15 ppm	50 mL	2150 µg/L	1	13	20	102		3/16/18 22:44:16	N	IV
2Q1802355-05	Beryllium, Total	MS	R1802079-014	Water	0.05 ppm	50 mL	50.3 µg/L	1	0.7	3.0	101		3/16/18 22:44:16	N	IV
2Q1802355-05	Boron, Total	MS	R1802079-014	Water	1.02 ppm	50 mL	1020 µg/L	1	80	200	102		3/16/18 22:44:16	N	IV
2Q1802355-05	Cadmium, Total	MS	R1802079-014	Water	0.05 ppm	50 mL	52.0 µg/L	1	0.9	5.0	104		3/16/18 22:44:16	N	IV
2Q1802355-05	Calcium, Total	MS	R1802079-014	Water	67.02 ppm	50 mL	67000 µg/L	1	400	1000	206*		3/16/18 22:44:16	N	IV
2Q1802355-05	Chromium, Total	MS	R1802079-014	Water	0.21 ppm	50 mL	207 µg/L	1	3	10	104		3/16/18 22:44:16	N	IV
2Q1802355-05	Cobalt, Total	MS	R1802079-014	Water	0.51 ppm	50 mL	505 µg/L	1	3	50	101		3/16/18 22:44:16	N	IV
2Q1802355-05	Copper, Total	MS	R1802079-014	Water	0.25 ppm	50 mL	245 µg/L	1	10	20	98		3/16/18 22:44:16	N	IV
2Q1802355-05	Iron, Total	MS	R1802079-014	Water	1.14 ppm	50 mL	1140 µg/L	1	80	100	114		3/16/18 22:44:16	N	IV
2Q1802355-05	Lead, Total	MS	R1802079-014	Water	0.51 ppm	50 mL	507 µg/L	1	4	50	101		3/16/18 22:44:16	N	IV
2Q1802355-05	Magnesium, Total	MS	R1802079-014	Water	19.36 ppm	50 mL	19400 µg/L	1	300	1000	107		3/16/18 22:44:16	N	IV
2Q1802355-05	Manganese, Total	MS	R1802079-014	Water	0.52 ppm	50 mL	524 µg/L	1	5	10	105		3/16/18 22:44:16	N	IV
2Q1802355-05	Nickel, Total	MS	R1802079-014	Water	0.49 ppm	50 mL	492 µg/L	1	9	40	98		3/16/18 22:44:16	N	IV
2Q1802355-05	Potassium, Total	MS	R1802079-014	Water	21.11 ppm	50 mL	21100 µg/L	1	300	2000	106		3/16/18 22:44:16	N	IV
2Q1802355-05	Selenium, Total	MS	R1802079-014	Water	1.07 ppm	50 mL	1070 µg/L	1	4	10	106		3/16/18 22:44:16	N	IV
2Q1802355-05	Silver, Total	MS	R1802079-014	Water	0.05 ppm	50 mL	50 µg/L	1	2	10	101		3/16/18 22:44:16	N	IV
2Q1802355-05	Sodium, Total	MS	R1802079-014	Water	26.78 ppm	50 mL	26800 µg/L	1	400	1000	98		3/16/18 22:44:16	N	IV
2Q1802355-05	Thallium, Total	MS	R1802079-014	Water	1.93 ppm	50 mL	1930 µg/L	1	6	10	97		3/16/18 22:44:16	N	IV
2Q1802355-05	Vanadium, Total	MS	R1802079-014	Water	0.50 ppm	50 mL	498 µg/L	1	3	50	100		3/16/18 22:44:16	N	IV
2Q1802355-05	Zinc, Total	MS	R1802079-014	Water	0.49 ppm	50 mL	486 µg/L	1	7	20	97		3/16/18 22:44:16	N	IV
2Q1802355-06	Aluminum, Total	DMS	R1802079-014	Water	2.07 ppm	50 mL	2070 µg/L	1	100	100	98	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Antimony, Total	DMS	R1802079-014	Water	0.49 ppm	50 mL	486 µg/L	1	8	60	97	1	3/16/18 22:47:34	N	IV
2Q1802355-06	Arsenic, Total	DMS	R1802079-014	Water	0.04 ppm	50 mL	40 µg/L	1	4	10	100	2	3/16/18 22:47:34	N	IV
2Q1802355-06	Barium, Total	DMS	R1802079-014	Water	2.14 ppm	50 mL	2140 µg/L	1	13	20	101	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Beryllium, Total	DMS	R1802079-014	Water	0.05 ppm	50 mL	50.1 µg/L	1	0.7	3.0	100	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Boron, Total	DMS	R1802079-014	Water	1.02 ppm	50 mL	1020 µg/L	1	80	200	102	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Cadmium, Total	DMS	R1802079-014	Water	0.05 ppm	50 mL	51.9 µg/L	1	0.9	5.0	104	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Calcium, Total	DMS	R1802079-014	Water	66.54 ppm	50 mL	66500 µg/L	1	400	1000	182*	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Chromium, Total	DMS	R1802079-014	Water	0.21 ppm	50 mL	207 µg/L	1	3	10	104	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Cobalt, Total	DMS	R1802079-014	Water	0.50 ppm	50 mL	504 µg/L	1	3	50	101	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Copper, Total	DMS	R1802079-014	Water	0.24 ppm	50 mL	245 µg/L	1	10	20	98	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Iron, Total	DMS	R1802079-014	Water	1.16 ppm	50 mL	1160 µg/L	1	80	100	116	2	3/16/18 22:47:34	N	IV
2Q1802355-06	Lead, Total	DMS	R1802079-014	Water	0.51 ppm	50 mL	506 µg/L	1	4	50	101	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Magnesium, Total	DMS	R1802079-014	Water	19.24 ppm	50 mL	19200 µg/L	1	300	1000	101	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Manganese, Total	DMS	R1802079-014	Water	0.52 ppm	50 mL	522 µg/L	1	5	10	104	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Nickel, Total	DMS	R1802079-014	Water	0.49 ppm	50 mL	491 µg/L	1	9	40	98	<1	3/16/18 22:47:34	N	IV

*5/16/18  
10/1*

*5/16/18  
10/1*

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989

Method/Testcode: 6010C/K T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802355-06	Potassium, Total	DMS	R1802079-014	Water	21.07 ppm	50 mL	21100 µg/L	1	300	2000	105	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Selenium, Total	DMS	R1802079-014	Water	1.07 ppm	50 mL	1070 µg/L	1	4	10	106	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Silver, Total	DMS	R1802079-014	Water	0.05 ppm	50 mL	50 µg/L	1	2	10	100	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Sodium, Total	DMS	R1802079-014	Water	26.63 ppm	50 mL	26600 µg/L	1	400	1000	97	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Thallium, Total	DMS	R1802079-014	Water	1.93 ppm	50 mL	1930 µg/L	1	6	10	96	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Vanadium, Total	DMS	R1802079-014	Water	0.50 ppm	50 mL	497 µg/L	1	3	50	99	<1	3/16/18 22:47:34	N	IV
2Q1802355-06	Zinc, Total	DMS	R1802079-014	Water	0.49 ppm	50 mL	486 µg/L	1	7	20	97	<1	3/16/18 22:47:34	N	IV
21802103-001	Zinc, Total	N/A		Water	0.95 ppm	5.0000 mL	190 mg/L	20	1.4	4.0			3/16/18 23:04:10	N	II
21802103-001	Selenium, Total	N/A		Water	0.15 ppm	5.0000 mL	7.64 mg/L	5	0.17	0.50			3/16/18 23:07:29	Y	II
2Q1802355-07	Selenium, Total	DUP	R1802103-001	Water	0.15 ppm	5.0000 mL	7550 µg/L	5	170	500		1	3/16/18 23:10:49	N	II
21802103-001	Copper, Total	N/A		Water	0.04 ppm	5.0000 mL	0.42 mg/L	1	0.10	0.20			3/16/18 23:14:08	N	II
21802110-001	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L	U 1	0.10	0.10			3/16/18 23:17:27	N	IV
21802110-001	Barium, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L	U 1	0.013	0.020			3/16/18 23:17:27	N	IV
21802110-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L	U 1	0.0007	0.0030			3/16/18 23:17:27	N	IV
21802110-001	Boron, Total	N/A		Water	0.01 ppm	50 mL	0.20 mg/L	U 1	0.08	0.20			3/16/18 23:17:27	N	IV
21802110-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L	U 1	0.0009	0.0050			3/16/18 23:17:27	N	IV
21802110-001	Calcium, Total	N/A		Water	0.06 ppm	50 mL	1.0 mg/L	U 1	0.4	1.0			3/16/18 23:17:27	N	IV
21802110-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L	U 1	0.003	0.010			3/16/18 23:17:27	N	IV
21802110-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L	U 1	0.003	0.050			3/16/18 23:17:27	N	IV
21802110-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L	U 1	0.010	0.020			3/16/18 23:17:27	N	IV
21802110-001	Iron, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L	U 1	0.08	0.10			3/16/18 23:17:27	N	IV
21802110-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L	U 1	0.004	0.050			3/16/18 23:17:27	N	IV
21802110-001	Magnesium, Total	N/A		Water	0.04 ppm	50 mL	1.0 mg/L	U 1	0.3	1.0			3/16/18 23:17:27	N	IV
21802110-001	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L	U 1	0.005	0.010			3/16/18 23:17:27	N	IV
21802110-001	Molybdenum, Total	N/A		Water	0.00 ppm	50 mL	0.025 mg/L	U 1	0.004	0.025			3/16/18 23:17:27	N	IV
21802110-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L	U 1	0.009	0.040			3/16/18 23:17:27	N	IV
21802110-001	Potassium, Total	N/A		Water	-0.02 ppm	50 mL	2.0 mg/L	U 1	0.3	2.0			3/16/18 23:17:27	N	IV
21802110-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L	U 1	0.004	0.010			3/16/18 23:17:27	N	IV
21802110-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L	U 1	0.002	0.010			3/16/18 23:17:27	N	IV
21802110-001	Sodium, Total	N/A		Water	0.06 ppm	50 mL	1.0 mg/L	U 1	0.4	1.0			3/16/18 23:17:27	N	IV
21802110-001	Strontium, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L	U 1	0.003	0.10			3/16/18 23:17:27	N	IV
21802110-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L	U 1	0.03	0.50			3/16/18 23:17:27	N	IV
21802110-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L	U 1	0.003	0.050			3/16/18 23:17:27	N	IV
21802110-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.007 mg/L	J 1	0.007	0.020			3/16/18 23:17:27	N	IV
21802110-002	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L	U 1	0.10	0.10			3/16/18 23:20:45	N	IV
21802110-002	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.025 mg/L	1	0.013	0.020			3/16/18 23:20:45	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989

Method/Testcode: 6010C/Be T

Lab Code	Target Analytes	QC?	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802110-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/16/18 23:20:45	N	IV
21802110-002	Boron, Total	N/A		Water	0.07 ppm	50 mL	0.20 mg/L U	1	0.08	0.20			3/16/18 23:20:45	N	IV
21802110-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/16/18 23:20:45	N	IV
21802110-002	Calcium, Total	N/A		Water	101.90 ppm	50 mL	102 mg/L	1	0.4	1.0			3/16/18 23:20:45	N	IV
21802110-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			3/16/18 23:20:45	N	IV
21802110-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 23:20:45	N	IV
21802110-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			3/16/18 23:20:45	N	IV
21802110-002	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.08	0.10			3/16/18 23:20:45	N	IV
21802110-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/16/18 23:20:45	N	IV
21802110-002	Magnesium, Total	N/A		Water	66.72 ppm	50 mL	66.7 mg/L	1	0.3	1.0			3/16/18 23:20:45	N	IV
21802110-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.005	0.010			3/16/18 23:20:45	N	IV
21802110-002	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.007 mg/L J	1	0.004	0.025			3/16/18 23:20:45	N	IV
21802110-002	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			3/16/18 23:20:45	N	IV
21802110-002	Potassium, Total	N/A		Water	3.65 ppm	50 mL	3.7 mg/L	1	0.3	2.0			3/16/18 23:20:45	N	IV
21802110-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			3/16/18 23:20:45	N	IV
21802110-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/16/18 23:20:45	N	IV
21802110-002	Sodium, Total	N/A		Water	44.43 ppm	50 mL	44.4 mg/L	1	0.4	1.0			3/16/18 23:20:45	N	IV
21802110-002	Strontium, Total	N/A		Water	2.59 ppm	50 mL	2.59 mg/L	1	0.003	0.10			3/16/18 23:20:45	N	IV
21802110-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/16/18 23:20:45	N	IV
21802110-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.003	0.050			3/16/18 23:20:45	N	IV
21802110-002	Zinc, Total	N/A		Water	0.02 ppm	50 mL	0.017 mg/L J	1	0.007	0.020			3/16/18 23:20:45	N	IV
21802110-007	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			3/16/18 23:24:04	N	IV
21802110-007	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.020 mg/L J	1	0.013	0.020			3/16/18 23:24:04	N	IV
21802110-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/16/18 23:24:04	N	IV
21802110-007	Boron, Total	N/A		Water	0.07 ppm	50 mL	0.20 mg/L U	1	0.08	0.20			3/16/18 23:24:04	N	IV
21802110-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/16/18 23:24:04	N	IV
21802110-007	Calcium, Total	N/A		Water	111.54 ppm	50 mL	112 mg/L	1	0.4	1.0			3/16/18 23:24:04	N	IV
21802110-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			3/16/18 23:24:04	N	IV
21802110-007	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 23:24:04	N	IV
21802110-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			3/16/18 23:24:04	N	IV
21802110-007	Iron, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.08	0.10			3/16/18 23:24:04	N	IV
21802110-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/16/18 23:24:04	N	IV
21802110-007	Magnesium, Total	N/A		Water	66.96 ppm	50 mL	67.0 mg/L	1	0.3	1.0			3/16/18 23:24:04	N	IV
21802110-007	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.005	0.010			3/16/18 23:24:04	N	IV
21802110-007	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.008 mg/L J	1	0.004	0.025			3/16/18 23:24:04	N	IV
21802110-007	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			3/16/18 23:24:04	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot: 583989

Method/Testcode: 6010C/K T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1802110-007	Potassium, Total	N/A		Water	4.05 ppm	50 mL	4.0 mg/L	1	0.3	2.0			3/16/18 23:24:04	N	IV
1802110-007	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			3/16/18 23:24:04	N	IV
1802110-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/16/18 23:24:04	N	IV
1802110-007	Sodium, Total	N/A		Water	41.11 ppm	50 mL	41.1 mg/L	1	0.4	1.0			3/16/18 23:24:04	N	IV
1802110-007	Strontium, Total	N/A		Water	2.16 ppm	50 mL	2.16 mg/L	1	0.003	0.10			3/16/18 23:24:04	N	IV
1802110-007	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/16/18 23:24:04	N	IV
1802110-007	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 23:24:04	N	IV
1802110-007	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.007	0.020			3/16/18 23:24:04	N	IV
1802168-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 23:27:23	N	II
1802168-001	Calcium, Total	N/A		Water	161.51 ppm	50 mL	162000 µg/L	1	400	1000			3/16/18 23:27:23	N	II
1802168-001	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 23:27:23	N	II
1802168-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			3/16/18 23:27:23	N	II
1802168-001	Magnesium, Total	N/A		Water	45.47 ppm	50 mL	45500 µg/L	1	300	1000			3/16/18 23:27:23	N	II
1802168-001	Manganese, Total	N/A		Water	1.10 ppm	50 mL	1100 µg/L	1	5	10			3/16/18 23:27:23	N	II
1802168-001	Potassium, Total	N/A		Water	4.47 ppm	50 mL	4500 µg/L	1	300	2000			3/16/18 23:27:23	N	II
1802168-001	Sodium, Total	N/A		Water	9.37 ppm	50 mL	9400 µg/L	1	400	1000			3/16/18 23:27:23	N	II
1802168-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 23:30:42	N	II
1802168-002	Calcium, Total	N/A		Water	134.46 ppm	50 mL	134000 µg/L	1	400	1000			3/16/18 23:30:42	N	II
1802168-002	Iron, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 23:30:42	N	II
1802168-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			3/16/18 23:30:42	N	II
1802168-002	Magnesium, Total	N/A		Water	34.19 ppm	50 mL	34200 µg/L	1	300	1000			3/16/18 23:30:42	N	II
1802168-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/16/18 23:30:42	N	II
1802168-002	Potassium, Total	N/A		Water	7.29 ppm	50 mL	7300 µg/L	1	300	2000			3/16/18 23:30:42	N	II
1802168-002	Sodium, Total	N/A		Water	7.88 ppm	50 mL	7900 µg/L	1	400	1000			3/16/18 23:30:42	N	II
1802168-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 23:34:00	N	II
1802168-003	Calcium, Total	N/A		Water	67.42 ppm	50 mL	67400 µg/L	1	400	1000			3/16/18 23:34:00	N	II
1802168-003	Iron, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 23:34:00	N	II
1802168-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			3/16/18 23:34:00	N	II
1802168-003	Magnesium, Total	N/A		Water	13.93 ppm	50 mL	13900 µg/L	1	300	1000			3/16/18 23:34:00	N	II
1802168-003	Manganese, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	5	10			3/16/18 23:34:00	N	II
1802168-003	Potassium, Total	N/A		Water	1.57 ppm	50 mL	1600 µg/L J	1	300	2000			3/16/18 23:34:00	N	II
1802168-003	Sodium, Total	N/A		Water	6.57 ppm	50 mL	6600 µg/L	1	400	1000			3/16/18 23:34:00	N	II
1802168-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 23:43:57	N	II
1802168-004	Calcium, Total	N/A		Water	160.73 ppm	50 mL	161000 µg/L	1	400	1000			3/16/18 23:43:57	N	II
1802168-004	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/16/18 23:43:57	N	II
1802168-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			3/16/18 23:43:57	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

583989

Method/Testcode: 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1802168-004	Magnesium, Total	N/A		Water	45.11 ppm	50 mL	45100 µg/L	1	300	1000			3/16/18 23:43:57	N	II
R1802168-004	Manganese, Total	N/A		Water	1.11 ppm	50 mL	1110 µg/L	1	5	10			3/16/18 23:43:57	N	II
R1802168-004	Potassium, Total	N/A		Water	4.46 ppm	50 mL	4500 µg/L	1	300	2000			3/16/18 23:43:57	N	II
R1802168-004	Sodium, Total	N/A		Water	9.31 ppm	50 mL	9300 µg/L	1	400	1000			3/16/18 23:43:57	N	II
R1802172-001	Aluminum, Total	N/A		Water	0.09 ppm	50 mL	100 µg/L	U 1	100	100			3/16/18 23:47:17	N	II
R1802172-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U 1	8	60			3/16/18 23:47:17	N	II
R1802172-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 23:47:17	N	II
R1802172-001	Barium, Total	N/A		Water	0.12 ppm	50 mL	119 µg/L	1	13	20			3/16/18 23:47:17	N	II
R1802172-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U 1	0.7	3.0			3/16/18 23:47:17	N	II
R1802172-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U 1	0.9	5.0			3/16/18 23:47:17	N	II
R1802172-001	Calcium, Total	N/A		Water	169.01 ppm	50 mL	169000 µg/L	1	400	1000			3/16/18 23:47:17	N	II
R1802172-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	3	10			3/16/18 23:47:17	N	II
R1802172-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 23:47:17	N	II
R1802172-001	Copper, Total	N/A		Water	0.05 ppm	50 mL	48 µg/L	1	10	20			3/16/18 23:47:17	N	II
R1802172-001	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			3/16/18 23:47:17	N	II
R1802172-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	4	50			3/16/18 23:47:17	N	II
R1802172-001	Magnesium, Total	N/A		Water	57.56 ppm	50 mL	57600 µg/L	1	300	1000			3/16/18 23:47:17	N	II
R1802172-001	Manganese, Total	N/A		Water	0.03 ppm	50 mL	25 µg/L	1	5	10			3/16/18 23:47:17	N	II
R1802172-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L	U 1	9	40			3/16/18 23:47:17	N	II
R1802172-001	Potassium, Total	N/A		Water	4.45 ppm	50 mL	4500 µg/L	1	300	2000			3/16/18 23:47:17	N	II
R1802172-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 23:47:17	N	II
R1802172-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	2	10			3/16/18 23:47:17	N	II
R1802172-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	6	10			3/16/18 23:47:17	N	II
R1802172-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 23:47:17	N	II
R1802172-001	Zinc, Total	N/A		Water	0.03 ppm	50 mL	31 µg/L	1	7	20			3/16/18 23:47:17	N	II
R1802172-002	Aluminum, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L	U 1	100	100			3/16/18 23:50:36	N	II
R1802172-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U 1	8	60			3/16/18 23:50:36	N	II
R1802172-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/16/18 23:50:36	N	II
R1802172-002	Barium, Total	N/A		Water	0.03 ppm	50 mL	29 µg/L	1	13	20			3/16/18 23:50:36	N	II
R1802172-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U 1	0.7	3.0			3/16/18 23:50:36	N	II
R1802172-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U 1	0.9	5.0			3/16/18 23:50:36	N	II
R1802172-002	Calcium, Total	N/A		Water	57.31 ppm	50 mL	57300 µg/L	1	400	1000			3/16/18 23:50:36	N	II
R1802172-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	3	10			3/16/18 23:50:36	N	II
R1802172-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/16/18 23:50:36	N	II
R1802172-002	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L	U 1	10	20			3/16/18 23:50:36	N	II
R1802172-002	Iron, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L	U 1	80	100			3/16/18 23:50:36	N	II

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: NMANSEN

Analysis Lot:

583989

Method/Testcode: 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1802172-002	Lead, Total	N/A		Water	0.01 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 23:50:36	N	II
1802172-002	Magnesium, Total	N/A		Water	17.63 ppm	50 mL	17600 µg/L	1	300	1000			3/16/18 23:50:36	N	II
1802172-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/16/18 23:50:36	N	II
1802172-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/16/18 23:50:36	N	II
1802172-002	Potassium, Total	N/A		Water	3.28 ppm	50 mL	3300 µg/L	1	300	2000			3/16/18 23:50:36	N	II
1802172-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 23:50:36	N	II
1802172-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 23:50:36	N	II
1802172-002	Sodium, Total	N/A		Water	91.59 ppm	50 mL	91600 µg/L	1	400	1000			3/16/18 23:50:36	N	II
1802172-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/16/18 23:50:36	N	II
1802172-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/16/18 23:50:36	N	II
1802172-002	Zinc, Total	N/A		Water	0.06 ppm	50 mL	64 µg/L	1	7	20			3/16/18 23:50:36	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Metals Cover Page

Analyst: CKW

Date: 3/15/18

Instrument: ICP6

Data File: 10mar15r

Reviewed By: CKW 3/16/18

Entered By: CKW 3/16/18

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
583870	TAL + BMO Sn Sr	309875	6010C		
583871	Ca Fe K Mg Mn Pb	309876	6010C		Repeat all Ca Na -008, 014 repeat K
583872	Ca Cd Fe K Mg Mn Na Pb	309874	6010C		Repeat R2075-001 Cu
583873	TAL + BMO Sn Sr (-TL)	309873	6010C	TL	Repeat R1851-004 Ca Na R2055-001 Na -002 K Na R2131-001 06 AS

## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

ICP-6 Run Log  
Serial number: MY15340001

Analyst: Chudye

Date: 8/15/18

Data File: lomar15A

	Prep Date	Lot #		Prep Date	Lot #
MRL	1/29/18	MT620094C	Cal Std 1	3/13/18	MT620016B
ICSA	11/30/17	MT620109C	Cal Std 2	3/8/18	MT620024N
ICSAB	1/29/18	MT620116E	Cal Std 5/ HLCCV1	3/14/18	MT620035R
Int. Std	3/14/18	MT620126M	ICV/CCV	3/15/18	MT620056D
HLCCV3	3/14/18	MT620087R	HLCCV2	3/14/18	MT620074J

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	MT600003T	MT600004D	M34, M25	M7710011	-

1:9	PBW-309875	S1:21	HLCCV2	1:4	Interference Check Solution A
1:10	LCSW-309875	S1:22	HLCCV3	1:5	Interference Check Solution AB
1:11	R1801978-001 10X	S1:23	HLCCV1	S1:6	Continuing Calibration Verification
1:12	R1801978-001	S1:6	Continuing Calibration Verification	S1:7	Continuing Calibration Blank
1:13	R1801978-001L	S1:7	Continuing Calibration Blank	2:4	PBW-309874
1:14	R1802078-002	1:38	PBW-309876	2:5	LCSW-309874
1:15	R1802078-004	1:39	LCSW-309876	2:6	R1801942-001
1:16	R1802078-006	1:40	R1801868-001	2:7	R1801942-002
1:17	R1802078-008	1:41	R1801868-001S	2:8	R1801942-003
1:18	R1802078-010	1:42	R1801868-001SD	2:9	R1801942-004
S1:6	Continuing Calibration Verification	1:43	R1801868-001A	2:10	R1801942-005
S1:7	Continuing Calibration Blank	1:44	R1801868-001L	2:11	R1801942-006
1:19	R1802078-012	1:45	R1801868-002	2:12	R1801942-006S
1:20	R1802078-014	1:46	R1801868-003	2:13	R1801942-006SD
1:21	R1802078-016	1:47	R1801868-004	S1:6	Continuing Calibration Verification
1:22	R1802078-018	S1:6	Continuing Calibration Verification	S1:7	Continuing Calibration Blank
1:23	R1802078-020	S1:7	Continuing Calibration Blank	2:14	R1801942-006A
1:24	R1802078-022	1:48	R1801868-005	2:15	R1801942-006L
1:25	R1802078-024	1:49	R1801868-006	2:16	R1801942-007
1:26	R1802078-026	1:50	R1801868-007	2:17	R1801942-008
1:27	R1802078-028	1:51	R1801868-008	2:18	R1801942-009
1:28	R1802078-030	1:52	R1801868-009	2:19	R1801942-010
S1:6	Continuing Calibration Verification	1:53	R1801868-010	2:20	R1801942-011
S1:7	Continuing Calibration Blank	1:54	R1801868-011	2:21	R1801942-012
1:29	R1802078-032	1:55	R1801868-012	2:22	R1801942-013
1:30	R1802078-034	1:56	R1801868-013	2:23	R1802033-001
1:31	R1802078-034S	1:57	R1801868-014	S1:8	Continuing Calibration Verification 1
1:32	R1802078-034SD	S1:6	Continuing Calibration Verification	S1:9	Continuing Calibration Blank 1
1:33	R1802078-034A	S1:7	Continuing Calibration Blank	2:24	R1802033-001S
1:34	R1802078-034L	1:58	R1801868-015	2:25	R1802033-001SD
1:35	R1802078-036	1:59	R1801868-016	2:26	R1802033-001A
1:36	R1802078-038	1:60	R1801868-017	2:27	R1802033-001L
1:37 <i>analysis</i>	R1802110-007 <i>no sample/BK</i>	2:1	R1801868-018	2:28	R1802033-002
S1:6	Continuing Calibration Verification	2:2	R1801868-019	2:29	R1802033-003
S1:7	Continuing Calibration Blank	2:3	R1801868-020	2:30	R1802075-001
S1:3	Contract Required Detection Limit	S1:6	Continuing Calibration Verification		
S1:4	Interference Check Solution A	S1:7	Continuing Calibration Blank		
S1:5	Interference Check Solution AB	1:3	Contract Required Detection Limit		

*Cal Std 1 & 2  
W/Blank  
OK*

*Analysis  
Chudye  
8/15/18*

*page 1 of 2*



ICP-6 Run Log  
Serial number: MY15340001

Analyst: CKurze

Date: 3/15/18

Data File: lomarISA

Prep Date	Lot #		Prep Date	Lot #
MRL		Cal Std 1		
ICSA		Cal Std 2		
ICSAB		Cal Std 5/HLCCVT	<i>see previous page</i>	
Int. Std		ICV/CCV		
		HLCCV2		
(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)				
Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification
Lot				IEC Date

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3/15/18*

S1:8	Continuing Calibration Verification1	2:45	R1801944-003
S1:9	Continuing Calibration Blank1	2:46	R1801944-004
1:6	Contract Required Detection Limit	2:47	R1801944-005
1:7	Interference Check Solution A	2:48	R1802040-001
1:8	Interference Check Solution AB	2:49	R1802040-008
S1:8	Continuing Calibration Verification1	2:50	R1802040-015
S1:9	Continuing Calibration Blank1	S1:8	Continuing Calibration Verification1
2:31	PBW-309873	S1:9	Continuing Calibration Blank1
2:32	LCSW-309873	2:51	R1802040-020
2:33	R1801820-001	2:52	R1802040-021
2:34	R1801820-001S	2:53	R1802055-001 10X
2:35	R1801820-001SD	2:54	R1802055-002 10X
2:36	R1801820-001A	2:55	R1802055-001
2:37	R1801820-001L	2:56	R1802055-002
2:38	R1801820-002	2:57	R1802137-002
2:39	R1801820-003	2:58	R1802137-002S
2:40	R1801851-004	2:59	R1802137-002SD
S1:8	Continuing Calibration Verification1	2:60	R1802137-002A
S1:9	Continuing Calibration Blank1	S1:8	Continuing Calibration Verification1
2:41	R1801851-005	S1:9	Continuing Calibration Blank1
2:42	R1801941-002	3:1	R1802137-002L
2:43	R1801943-001	3:2	R1802137-008
2:44	R1801944-002	S1:8	Continuing Calibration Verification1
		S1:9	Continuing Calibration Blank1
		S1:3	Contract Required Detection Limit
		S1:4	Interference Check Solution A
		S1:5	Interference Check Solution AB
		S1:8	Continuing Calibration Verification1
		S1:9	Continuing Calibration Blank1

*working copy  
3/15/18*



Path: C:\Agilent\ICP Expert\My Results\6MAR15A.esws  
 Date created: 11/10/2015 11:09:45 AM  
 Instrument used: MY15340001  
 Software Version : 7.100.6821.61355    Firmware Version : 2994  
 Notes:

*Checked  
Kutzel 3/15/18*

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:41:44	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-97.2451
3/15/2018 15:41:44	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	112.2255
3/15/2018 15:41:44	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.3310
3/15/2018 15:41:44	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	75.6067
3/15/2018 15:41:44	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.3700
3/15/2018 15:41:44	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-586.6710
3/15/2018 15:41:44	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.2624
3/15/2018 15:41:44	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	17.0676
3/15/2018 15:41:44	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-3.7751
3/15/2018 15:41:44	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.1123
3/15/2018 15:41:44	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	8.2463
3/15/2018 15:41:44	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	18.3604
3/15/2018 15:41:44	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-4.4865
3/15/2018 15:41:44	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5.4444
3/15/2018 15:41:44	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	11.8193
3/15/2018 15:41:44	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.0882
3/15/2018 15:41:44	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-8473.5396
3/15/2018 15:41:44	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-23.0010
3/15/2018 15:41:44	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.0978
3/15/2018 15:41:44	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.1806
3/15/2018 15:41:44	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	2.8231
3/15/2018 15:41:44	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.7693
3/15/2018 15:41:44	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.8868
3/15/2018 15:41:44	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-639.0333
3/15/2018 15:41:44	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	24.8064
3/15/2018 15:41:44	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	133.5454
3/15/2018 15:41:44	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	743990.90
3/15/2018 15:41:44	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	743910.37
3/15/2018 15:41:44	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-27.0504
3/15/2018 15:45:05	Standard 1	Ag (328.068 nm)		N/A		-104.7825
3/15/2018 15:45:05	Standard 1	Al (394.401 nm)		N/A		296.9619
3/15/2018 15:45:05	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	0.6901
3/15/2018 15:45:05	Standard 1	B (249.772 nm)		N/A		67.0598
3/15/2018 15:45:05	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	622.3048
3/15/2018 15:45:05	Standard 1	Be (313.107 nm)		N/A		-587.8954
3/15/2018 15:45:05	Standard 1	Ca (227.547 nm)		N/A		26.1174
3/15/2018 15:45:05	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	38.8699
3/15/2018 15:45:05	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	22.3359
3/15/2018 15:45:05	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	224.0928
3/15/2018 15:45:05	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	531.1348

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:45:05	Standard 1	Fe (234.350 nm)		N/A		22.1595
3/15/2018 15:45:05	Standard 1	K (766.491 nm)		N/A		4420.6132
3/15/2018 15:45:05	Standard 1	Mg (279.078 nm)		N/A		897.1298
3/15/2018 15:45:05	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	3036.2379
3/15/2018 15:45:05	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	228.6806
3/15/2018 15:45:05	Standard 1	Na (588.995 nm)		N/A		9140.9010
3/15/2018 15:45:05	Standard 1	Ni (230.299 nm)		N/A		-20.7598
3/15/2018 15:45:05	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	13.9360
3/15/2018 15:45:05	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	13.6678
3/15/2018 15:45:05	Standard 1	Se (196.026 nm)		N/A		4.2535
3/15/2018 15:45:05	Standard 1	Sn (189.925 nm)		N/A		-0.8795
3/15/2018 15:45:05	Standard 1	Sr (216.596 nm)		N/A		-1.2565
3/15/2018 15:45:05	Standard 1	Ti (336.122 nm)		N/A		-655.8795
3/15/2018 15:45:05	Standard 1	Tl (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	39.9788
3/15/2018 15:45:05	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	226.9644
3/15/2018 15:45:05	Standard 1	Y (360.074 nm)	1.00 (Ratio)	0.73	1.00 (Ratio)	745222.07
3/15/2018 15:45:05	Standard 1	Y_R (360.074 nm)	1.00 (Ratio)	0.73	1.00 (Ratio)	745169.46
3/15/2018 15:45:05	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	257.7356
3/15/2018 15:48:26	Standard 2	Ag (328.068 nm)		N/A		-104.0531
3/15/2018 15:48:26	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1050.2712
3/15/2018 15:48:26	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	5.4848
3/15/2018 15:48:26	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	5157.7659
3/15/2018 15:48:26	Standard 2	Ba (230.424 nm)		N/A		-0.4019
3/15/2018 15:48:26	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3302.0594
3/15/2018 15:48:26	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	46.5979
3/15/2018 15:48:26	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	120.0062
3/15/2018 15:48:26	Standard 2	Co (230.786 nm)		N/A		-7.8097
3/15/2018 15:48:26	Standard 2	Cr (267.716 nm)		N/A		0.4594
3/15/2018 15:48:26	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1018.1399
3/15/2018 15:48:26	Standard 2	Fe (234.350 nm)		N/A		13.5974
3/15/2018 15:48:26	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4487.0374
3/15/2018 15:48:26	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1787.9060
3/15/2018 15:48:26	Standard 2	Mn (257.610 nm)		N/A		24.3189
3/15/2018 15:48:26	Standard 2	Mo (202.032 nm)		N/A		1.7017
3/15/2018 15:48:26	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	26557.8508
3/15/2018 15:48:26	Standard 2	Ni (230.299 nm)		N/A		-19.6575
3/15/2018 15:48:26	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	107.4019
3/15/2018 15:48:26	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	76.4649
3/15/2018 15:48:26	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	13.5386
3/15/2018 15:48:26	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	562.0459
3/15/2018 15:48:26	Standard 2	Sr (216.596 nm)		N/A		-3.2609
3/15/2018 15:48:26	Standard 2	Ti (336.122 nm)		N/A		-660.7894
3/15/2018 15:48:26	Standard 2	Tl (351.923 nm)		N/A		20.7979
3/15/2018 15:48:26	Standard 2	V (292.401 nm)		N/A		135.9335
3/15/2018 15:48:26	Standard 2	Y (360.074 nm)	1.00 (Ratio)	0.63	1.00 (Ratio)	746838.24
3/15/2018 15:48:26	Standard 2	Y_R (360.074 nm)	1.00 (Ratio)	0.63	1.00 (Ratio)	746802.89
3/15/2018 15:48:26	Standard 2	Zn (213.857 nm)		N/A		-27.4846
3/15/2018 15:51:47	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	502.0692
3/15/2018 15:51:47	Standard 3	Al (394.401 nm)		N/A		1945.2847
3/15/2018 15:51:47	Standard 3	As (188.980 nm)		N/A		13.6682
3/15/2018 15:51:47	Standard 3	B (249.772 nm)		N/A		1376.0431

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:51:47	Standard 3	Ba (230.424 nm)		N/A		6214.1795
3/15/2018 15:51:47	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	5956.1959
3/15/2018 15:51:47	Standard 3	Ce (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	29.8050
3/15/2018 15:51:47	Standard 3	Cd (214.439 nm)		N/A		229.7616
3/15/2018 15:51:47	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	468.0170
3/15/2018 15:51:47	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	443.4621
3/15/2018 15:51:47	Standard 3	Cu (327.395 nm)		N/A		1231.5553
3/15/2018 15:51:47	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1030.8578
3/15/2018 15:51:47	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1116.0465
3/15/2018 15:51:47	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	908.2852
3/15/2018 15:51:47	Standard 3	Mn (257.610 nm)		N/A		4329.8985
3/15/2018 15:51:47	Standard 3	Mo (202.032 nm)		N/A		452.2616
3/15/2018 15:51:47	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	9411.7397
3/15/2018 15:51:47	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	241.6895
3/15/2018 15:51:47	Standard 3	Pb (220.353 nm)		N/A		26.0683
3/15/2018 15:51:47	Standard 3	Sb (217.582 nm)		N/A		125.4259
3/15/2018 15:51:47	Standard 3	Se (196.026 nm)		N/A		10.9279
3/15/2018 15:51:47	Standard 3	Sn (189.925 nm)		N/A		117.7557
3/15/2018 15:51:47	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	659.8887
3/15/2018 15:51:47	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	8068.4394
3/15/2018 15:51:47	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	61.0803
3/15/2018 15:51:47	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	1671.3817
3/15/2018 15:51:47	Standard 3	Y (360.074 nm)	1.00 (Ratio)	1.09	1.00 (Ratio)	743551.47
3/15/2018 15:51:47	Standard 3	Y_R (360.074 nm)	1.00 (Ratio)	1.09	1.00 (Ratio)	743497.06
3/15/2018 15:51:47	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	549.3368
3/15/2018 15:55:07	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	11915.6410
3/15/2018 15:55:07	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	38869.5287
3/15/2018 15:55:07	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	338.6012
3/15/2018 15:55:07	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	26273.3901
3/15/2018 15:55:07	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	120499.3902
3/15/2018 15:55:07	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	131361.1053
3/15/2018 15:55:07	Standard 4	Ce (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	450.6279
3/15/2018 15:55:07	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4247.1002
3/15/2018 15:55:07	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	9410.4386
3/15/2018 15:55:07	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	8651.3968
3/15/2018 15:55:07	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	24484.5313
3/15/2018 15:55:07	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	19979.1487
3/15/2018 15:55:07	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	23107.9882
3/15/2018 15:55:07	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	18226.2538
3/15/2018 15:55:07	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	84205.7827
3/15/2018 15:55:07	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	8898.6638
3/15/2018 15:55:07	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	341077.7441
3/15/2018 15:55:07	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	5137.3568
3/15/2018 15:55:07	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	419.1339
3/15/2018 15:55:07	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2544.2735
3/15/2018 15:55:07	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	152.2097
3/15/2018 15:55:07	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2297.5891
3/15/2018 15:55:07	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	13066.8229
3/15/2018 15:55:07	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	172022.7848
3/15/2018 15:55:07	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	846.5091
3/15/2018 15:55:07	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	30912.9808

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 15:55:07	Standard 4	Y (360.074 nm)	1.00 (Ratio)	0.79	1.00 (Ratio)	740949.52
3/15/2018 15:55:07	Standard 4	Y_R (360.074 nm)	1.00 (Ratio)	0.79	1.00 (Ratio)	740946.92
3/15/2018 15:55:07	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	11158.8682
3/15/2018 15:58:27	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	61559.0064
3/15/2018 15:58:27	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	212125.0774
3/15/2018 15:58:27	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1736.4163
3/15/2018 15:58:27	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	133881.0820
3/15/2018 15:58:27	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	581475.1424
3/15/2018 15:58:27	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	658073.6703
3/15/2018 15:58:27	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2370.9731
3/15/2018 15:58:27	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	20672.9332
3/15/2018 15:58:27	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	46194.0081
3/15/2018 15:58:27	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	42761.9855
3/15/2018 15:58:27	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	126119.1370
3/15/2018 15:58:27	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	97781.4408
3/15/2018 15:58:27	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	119721.9161
3/15/2018 15:58:27	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	92165.3045
3/15/2018 15:58:27	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	411086.0782
3/15/2018 15:58:27	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	44476.2918
3/15/2018 15:58:27	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	1735124.9459
3/15/2018 15:58:27	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	25105.4599
3/15/2018 15:58:27	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2035.7700
3/15/2018 15:58:27	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12761.2610
3/15/2018 15:58:27	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	759.9411
3/15/2018 15:58:27	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	11313.1100
3/15/2018 15:58:27	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	64581.5485
3/15/2018 15:58:27	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	860445.8646
3/15/2018 15:58:27	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	4396.6612
3/15/2018 15:58:27	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	153453.0315
3/15/2018 15:58:27	Standard 5	Y (360.074 nm)	0.96 (Ratio)	0.76	0.96 (Ratio)	716730.74
3/15/2018 15:58:27	Standard 5	Y_R (360.074 nm)	0.96 (Ratio)	0.76	0.96 (Ratio)	716753.02
3/15/2018 15:58:27	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	56314.5431
3/15/2018 16:01:47	Initial Calibration Verification	Ag (328.068 nm)	0.4837 (ppm)	0.21	0.4837 (ppm)	29698.1929
3/15/2018 16:01:47	Initial Calibration Verification	Al (394.401 nm)	9.6336 (ppm)	0.27	9.6336 (ppm)	101896.4438
3/15/2018 16:01:47	Initial Calibration Verification	As (188.980 nm)	1.0061 (ppm)	0.54	1.0061 (ppm)	870.8820
3/15/2018 16:01:47	Initial Calibration Verification	B (249.772 nm)	2.4679 (ppm)	0.30	2.4679 (ppm)	66061.0641
3/15/2018 16:01:47	Initial Calibration Verification	Ba (230.424 nm)	10.3335 (ppm)	0.34	10.3335 (ppm)	300855.0765
3/15/2018 16:01:47	Initial Calibration Verification	Be (313.107 nm)	0.2532 (ppm)	0.32	0.2532 (ppm)	332944.3690
3/15/2018 16:01:47	Initial Calibration Verification	Ca (227.547 nm)	24.1318 (ppm)	0.34	24.1318 (ppm)	1144.8421
3/15/2018 16:01:47	Initial Calibration Verification	Cd (214.439 nm)	0.5135 (ppm)	0.11	0.5135 (ppm)	10633.2485
3/15/2018 16:01:47	Initial Calibration Verification	Co (230.786 nm)	2.5799 (ppm)	0.32	2.5799 (ppm)	23850.4740
3/15/2018 16:01:47	Initial Calibration Verification	Cr (267.716 nm)	0.5222 (ppm)	0.26	0.5222 (ppm)	22339.0387
3/15/2018 16:01:47	Initial Calibration Verification	Cu (327.395 nm)	1.2225 (ppm)	0.30	1.2225 (ppm)	61608.7663
3/15/2018 16:01:47	Initial Calibration Verification	Fe (234.350 nm)	5.0414 (ppm)	0.23	5.0414 (ppm)	49344.4687
3/15/2018 16:01:47	Initial Calibration Verification	K (766.491 nm)	24.6602 (ppm)	0.62	24.6602 (ppm)	58960.1633
3/15/2018 16:01:47	Initial Calibration Verification	Mg (279.078 nm)	24.9686 (ppm)	0.11	24.9686 (ppm)	46002.1704
3/15/2018 16:01:47	Initial Calibration Verification	Mn (257.610 nm)	0.7701 (ppm)	0.26	0.7701 (ppm)	211255.5976
3/15/2018 16:01:47	Initial Calibration Verification	Mo (202.032 nm)	2.5054 (ppm)	0.13	2.5054 (ppm)	22288.3981
3/15/2018 16:01:47	Initial Calibration Verification	Na (588.995 nm)	24.6705 (ppm)	0.54	24.6705 (ppm)	851919.2543
3/15/2018 16:01:47	Initial Calibration Verification	Ni (230.299 nm)	2.0672 (ppm)	0.27	2.0672 (ppm)	12976.8982
3/15/2018 16:01:47	Initial Calibration Verification	Pb (220.353 nm)	0.5119 (ppm)	0.42	0.5119 (ppm)	1045.6850

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:01:47	Initial Calibration Verification	Sb (217.582 nm)	5.1275 (ppm)	0.29	5.1275 (ppm)	6542.4410
3/15/2018 16:01:47	Initial Calibration Verification	Se (196.026 nm)	0.5100 (ppm)	0.51	0.5100 (ppm)	388.7363
3/15/2018 16:01:47	Initial Calibration Verification	Sn (189.925 nm)	5.0997 (ppm)	0.33	5.0997 (ppm)	5772.4181
3/15/2018 16:01:47	Initial Calibration Verification	Sr (216.596 nm)	2.5220 (ppm)	0.31	2.5220 (ppm)	32588.7453
3/15/2018 16:01:47	Initial Calibration Verification	Ti (336.122 nm)	2.5040 (ppm)	0.18	2.5040 (ppm)	430636.4207
3/15/2018 16:01:47	Initial Calibration Verification	Tl (351.923 nm)	1.0057 (ppm)	0.32	1.0057 (ppm)	2217.9635
3/15/2018 16:01:47	Initial Calibration Verification	V (292.401 nm)	2.5225 (ppm)	0.28	2.5225 (ppm)	77495.7308
3/15/2018 16:01:47	Initial Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.68	0.98 (Ratio)	729044.66
3/15/2018 16:01:47	Initial Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.68	0.98 (Ratio)	729032.81
3/15/2018 16:01:47	Initial Calibration Verification	Zn (213.857 nm)	0.9710 (ppm)	0.32	0.9710 (ppm)	27318.8137
3/15/2018 16:05:06	Initial Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.0771
3/15/2018 16:05:06	Initial Calibration Blank	Al (394.401 nm)	0.0017 (ppm)	55.53	0.0017 (ppm)	130.3464
3/15/2018 16:05:06	Initial Calibration Blank	As (188.980 nm)	0.0019 (ppm)	74.71	0.0019 (ppm)	-2.6781
3/15/2018 16:05:06	Initial Calibration Blank	B (249.772 nm)	0.0022 (ppm)	6.92	0.0022 (ppm)	133.2569
3/15/2018 16:05:06	Initial Calibration Blank	Ba (230.424 nm)	0.0006 (ppm)	43.88	0.0006 (ppm)	25.2204
3/15/2018 16:05:06	Initial Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	23.54	0.0000 (ppm)	-558.9385
3/15/2018 16:05:06	Initial Calibration Blank	Ca (227.547 nm)	-0.0476 u (ppm)	33.32	-0.0476 (ppm)	4.0167
3/15/2018 16:05:06	Initial Calibration Blank	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	17.1790
3/15/2018 16:05:06	Initial Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.3861
3/15/2018 16:05:06	Initial Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-1.7503
3/15/2018 16:05:06	Initial Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	71.47	0.0001 (ppm)	15.2226
3/15/2018 16:05:06	Initial Calibration Blank	Fe (234.350 nm)	0.0012 (ppm)	6.86	0.0012 (ppm)	30.0153
3/15/2018 16:05:06	Initial Calibration Blank	K (766.491 nm)	0.0237 (ppm)	71.06	0.0237 (ppm)	52.1762
3/15/2018 16:05:06	Initial Calibration Blank	Mg (279.078 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-3.5040
3/15/2018 16:05:06	Initial Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	16.82	0.0001 (ppm)	35.0220
3/15/2018 16:05:06	Initial Calibration Blank	Mo (202.032 nm)	0.0021 (ppm)	19.23	0.0021 (ppm)	23.8319
3/15/2018 16:05:06	Initial Calibration Blank	Na (588.995 nm)	0.0034 (ppm)	51.21	0.0034 (ppm)	-8354.8416
3/15/2018 16:05:06	Initial Calibration Blank	Ni (230.299 nm)	0.0005 (ppm)	91.09	0.0005 (ppm)	-19.7742
3/15/2018 16:05:06	Initial Calibration Blank	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	4.5565
3/15/2018 16:05:06	Initial Calibration Blank	Sb (217.582 nm)	0.0049 (ppm)	36.19	0.0049 (ppm)	6.1296
3/15/2018 16:05:06	Initial Calibration Blank	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	3.0553
3/15/2018 16:05:06	Initial Calibration Blank	Sn (189.925 nm)	0.0025 (ppm)	36.62	0.0025 (ppm)	2.0148
3/15/2018 16:05:06	Initial Calibration Blank	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-1.3734
3/15/2018 16:05:06	Initial Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	11.63	0.0012 (ppm)	-435.3721
3/15/2018 16:05:06	Initial Calibration Blank	Tl (351.923 nm)	0.0017 (ppm)	34.28	0.0017 (ppm)	28.5315
3/15/2018 16:05:06	Initial Calibration Blank	V (292.401 nm)	0.0005 (ppm)	48.33	0.0005 (ppm)	147.9611
3/15/2018 16:05:06	Initial Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.66	1.00 (Ratio)	747555.63
3/15/2018 16:05:06	Initial Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.66	1.00 (Ratio)	747521.31
3/15/2018 16:05:06	Initial Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	64.70	0.0001 (ppm)	-23.8358
3/15/2018 16:08:24	Contract Required Detection Limit	Ag (328.068 nm)	0.0097 (ppm)	1.21	0.0097 (ppm)	499.8289
3/15/2018 16:08:24	Contract Required Detection Limit	Al (394.401 nm)	0.1746 (ppm)	0.55	0.1746 (ppm)	1956.7199
3/15/2018 16:08:24	Contract Required Detection Limit	As (188.980 nm)	0.0210 (ppm)	11.14	0.0210 (ppm)	13.9406
3/15/2018 16:08:24	Contract Required Detection Limit	B (249.772 nm)	0.1991 (ppm)	0.38	0.1991 (ppm)	5398.1595
3/15/2018 16:08:24	Contract Required Detection Limit	Ba (230.424 nm)	0.2089 (ppm)	0.18	0.2089 (ppm)	6087.8883
3/15/2018 16:08:24	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.35	0.0050 (ppm)	5956.8079
3/15/2018 16:08:24	Contract Required Detection Limit	Ca (227.547 nm)	0.9244 (ppm)	4.00	0.9244 (ppm)	49.8772
3/15/2018 16:08:24	Contract Required Detection Limit	Cd (214.439 nm)	0.0102 (ppm)	0.54	0.0102 (ppm)	227.1811
3/15/2018 16:08:24	Contract Required Detection Limit	Co (230.786 nm)	0.0515 (ppm)	1.43	0.0515 (ppm)	472.2091
3/15/2018 16:08:24	Contract Required Detection Limit	Cr (267.716 nm)	0.0104 (ppm)	0.51	0.0104 (ppm)	439.1019
3/15/2018 16:08:24	Contract Required Detection Limit	Cu (327.395 nm)	0.0244 (ppm)	0.47	0.0244 (ppm)	1235.2350
3/15/2018 16:08:24	Contract Required Detection Limit	Fe (234.350 nm)	0.1051 (ppm)	0.19	0.1051 (ppm)	1046.9673

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:08:24	Contract Required Detection Limit	K (766.491 nm)	0.9465 (ppm)	0.75	0.9465 (ppm)	2258.6397
3/15/2018 16:08:24	Contract Required Detection Limit	Mg (279.078 nm)	0.9992 (ppm)	0.23	0.9992 (ppm)	1835.6682
3/15/2018 16:08:24	Contract Required Detection Limit	Mn (257.610 nm)	0.0155 (ppm)	0.22	0.0155 (ppm)	4253.5015
3/15/2018 16:08:24	Contract Required Detection Limit	Mo (202.032 nm)	0.0254 (ppm)	1.54	0.0254 (ppm)	230.5642
3/15/2018 16:08:24	Contract Required Detection Limit	Na (588.995 nm)	1.0158 (ppm)	0.24	1.0158 (ppm)	26952.3506
3/15/2018 16:08:24	Contract Required Detection Limit	Ni (230.299 nm)	0.0424 (ppm)	2.46	0.0424 (ppm)	243.5286
3/15/2018 16:08:24	Contract Required Detection Limit	Pb (220.353 nm)	0.0095 (ppm)	6.45	0.0095 (ppm)	25.4313
3/15/2018 16:08:24	Contract Required Detection Limit	Sb (217.582 nm)	0.0616 (ppm)	2.34	0.0616 (ppm)	78.4332
3/15/2018 16:08:24	Contract Required Detection Limit	Se (196.026 nm)	0.0110 (ppm)	14.50	0.0110 (ppm)	11.1098
3/15/2018 16:08:24	Contract Required Detection Limit	Sn (189.925 nm)	0.5048 (ppm)	0.42	0.5048 (ppm)	570.7420
3/15/2018 16:08:24	Contract Required Detection Limit	Sr (216.596 nm)	0.1012 (ppm)	0.23	0.1012 (ppm)	1305.1409
3/15/2018 16:08:24	Contract Required Detection Limit	Ti (336.122 nm)	0.0510 (ppm)	0.04	0.0510 (ppm)	8141.3683
3/15/2018 16:08:24	Contract Required Detection Limit	Ti (351.923 nm)	0.0167 (ppm)	17.23	0.0167 (ppm)	61.2075
3/15/2018 16:08:24	Contract Required Detection Limit	V (292.401 nm)	0.0491 (ppm)	0.07	0.0491 (ppm)	1638.5578
3/15/2018 16:08:24	Contract Required Detection Limit	Y (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	753466.14
3/15/2018 16:08:24	Contract Required Detection Limit	Y_R (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	753452.82
3/15/2018 16:08:24	Contract Required Detection Limit	Zn (213.857 nm)	0.0196 (ppm)	0.77	0.0196 (ppm)	524.4807
3/15/2018 16:11:43	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u (ppm)	97.96	-0.0002 (ppm)	-108.5865
3/15/2018 16:11:43	Interference Check Solution A	Al (394.401 nm)	267.2147 u (ppm)	0.34	267.2147 (ppm)	2823385.8942
3/15/2018 16:11:43	Interference Check Solution A	As (188.980 nm)	0.0034 u (ppm)	> 100.00	0.0034 (ppm)	-1.3611
3/15/2018 16:11:43	Interference Check Solution A	B (249.772 nm)	0.0422 (ppm)	0.46	0.0422 (ppm)	1203.6498
3/15/2018 16:11:43	Interference Check Solution A	Ba (230.424 nm)	0.0003 (ppm)	55.35	0.0003 (ppm)	15.3408
3/15/2018 16:11:43	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	22.55	0.0000 (ppm)	-647.7582
3/15/2018 16:11:43	Interference Check Solution A	Ca (227.547 nm)	268.1503 u (ppm)	0.33	268.1503 (ppm)	12658.0403
3/15/2018 16:11:43	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u (ppm)	51.14	-0.0010 (ppm)	-3.1059
3/15/2018 16:11:43	Interference Check Solution A	Co (230.786 nm)	-0.0015 u (ppm)	5.23	-0.0015 (ppm)	-17.8496
3/15/2018 16:11:43	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	85.42	0.0002 (ppm)	6.5078
3/15/2018 16:11:43	Interference Check Solution A	Cu (327.395 nm)	0.0009 (ppm)	24.42	0.0009 (ppm)	52.2007
3/15/2018 16:11:43	Interference Check Solution A	Fe (234.350 nm)	94.2292 u (ppm)	0.35	94.2292 (ppm)	921974.5026
3/15/2018 16:11:43	Interference Check Solution A	K (766.491 nm)	0.0154 (ppm)	64.26	0.0154 (ppm)	32.3526
3/15/2018 16:11:43	Interference Check Solution A	Mg (279.078 nm)	267.1107 u (ppm)	0.33	267.1107 (ppm)	492176.9117
3/15/2018 16:11:43	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.23	0.0016 (ppm)	457.4251
3/15/2018 16:11:43	Interference Check Solution A	Mo (202.032 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	8.3209
3/15/2018 16:11:43	Interference Check Solution A	Na (588.995 nm)	-0.0210 u (ppm)	1.48	-0.0210 (ppm)	-9205.9198
3/15/2018 16:11:43	Interference Check Solution A	Ni (230.299 nm)	-0.0019 u (ppm)	40.44	-0.0019 (ppm)	-34.8560
3/15/2018 16:11:43	Interference Check Solution A	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.5736
3/15/2018 16:11:43	Interference Check Solution A	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	1.0859
3/15/2018 16:11:43	Interference Check Solution A	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	3.1080
3/15/2018 16:11:43	Interference Check Solution A	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.3579
3/15/2018 16:11:43	Interference Check Solution A	Sr (216.596 nm)	0.0196 (ppm)	3.67	0.0196 (ppm)	250.6983
3/15/2018 16:11:43	Interference Check Solution A	Ti (336.122 nm)	0.0019 (ppm)	4.02	0.0019 (ppm)	-312.7386
3/15/2018 16:11:43	Interference Check Solution A	Ti (351.923 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	19.7150
3/15/2018 16:11:43	Interference Check Solution A	V (292.401 nm)	0.0034 K (ppm)	8.38	0.0034 (ppm)	238.1733 K
3/15/2018 16:11:43	Interference Check Solution A	Y (360.074 nm)	0.91 (Ratio)	0.79	0.91 (Ratio)	678391.55
3/15/2018 16:11:43	Interference Check Solution A	Y_R (360.074 nm)	0.91 (Ratio)	0.79	0.91 (Ratio)	678541.38
3/15/2018 16:11:43	Interference Check Solution A	Zn (213.857 nm)	0.0104 K (ppm)	1.23	0.0104 (ppm)	264.5707 K
3/15/2018 16:15:03	Interference Check Solution AB	Ag (328.068 nm)	0.2166 (ppm)	0.32	0.2166 (ppm)	13246.3178
3/15/2018 16:15:03	Interference Check Solution AB	Al (394.401 nm)	268.2649 u (ppm)	0.40	268.2649 (ppm)	2834481.7962
3/15/2018 16:15:03	Interference Check Solution AB	As (188.980 nm)	0.1017 (ppm)	4.46	0.1017 (ppm)	84.1339
3/15/2018 16:15:03	Interference Check Solution AB	B (249.772 nm)	0.0435 (ppm)	0.37	0.0435 (ppm)	1238.7722
3/15/2018 16:15:03	Interference Check Solution AB	Ba (230.424 nm)	0.5295 (ppm)	0.22	0.5295 (ppm)	15421.8856

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:15:03	Interference Check Solution AB	Be (313.107 nm)	0.5103 (ppm)	0.22	0.5103 (ppm)	671680.4569
3/15/2018 16:15:03	Interference Check Solution AB	Ca (227.547 nm)	269.1742 (ppm)	0.19	269.1742 (ppm)	12706.3473
3/15/2018 16:15:03	Interference Check Solution AB	Cd (214.439 nm)	0.9852 (ppm)	0.32	0.9852 (ppm)	20385.0747
3/15/2018 16:15:03	Interference Check Solution AB	Co (230.786 nm)	0.5004 (ppm)	0.05	0.5004 (ppm)	4623.1953
3/15/2018 16:15:03	Interference Check Solution AB	Cr (267.716 nm)	0.5149 (ppm)	0.10	0.5149 (ppm)	22026.2823
3/15/2018 16:15:03	Interference Check Solution AB	Cu (327.395 nm)	0.5453 (ppm)	0.25	0.5453 (ppm)	27485.1336
3/15/2018 16:15:03	Interference Check Solution AB	Fe (234.350 nm)	94.4349 (ppm)	0.30	94.4349 (ppm)	923987.4567
3/15/2018 16:15:03	Interference Check Solution AB	K (766.491 nm)	0.0046 (ppm)	> 100.00	0.0046 (ppm)	6.4996
3/15/2018 16:15:03	Interference Check Solution AB	Mg (279.078 nm)	267.8985 (ppm)	0.19	267.8985 (ppm)	493628.5130
3/15/2018 16:15:03	Interference Check Solution AB	Mn (257.610 nm)	0.5101 (ppm)	0.17	0.5101 (ppm)	139946.7929
3/15/2018 16:15:03	Interference Check Solution AB	Mo (202.032 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	9.9401
3/15/2018 16:15:03	Interference Check Solution AB	Na (588.995 nm)	-0.0149 (ppm)	3.83	-0.0149 (ppm)	-8994.2722
3/15/2018 16:15:03	Interference Check Solution AB	Ni (230.299 nm)	0.9855 (ppm)	0.32	0.9855 (ppm)	6174.3339
3/15/2018 16:15:03	Interference Check Solution AB	Pb (220.353 nm)	0.0476 (ppm)	3.25	0.0476 (ppm)	102.8125
3/15/2018 16:15:03	Interference Check Solution AB	Sb (217.582 nm)	0.6204 (ppm)	0.23	0.6204 (ppm)	791.4550
3/15/2018 16:15:03	Interference Check Solution AB	Se (196.026 nm)	0.0510 (ppm)	9.11	0.0510 (ppm)	41.4225
3/15/2018 16:15:03	Interference Check Solution AB	Sn (189.925 nm)	-0.0003 (ppm)	> 100.00	-0.0003 (ppm)	-1.0766
3/15/2018 16:15:03	Interference Check Solution AB	Sr (216.596 nm)	0.0199 (ppm)	0.93	0.0199 (ppm)	254.7216
3/15/2018 16:15:03	Interference Check Solution AB	Ti (336.122 nm)	0.0018 (ppm)	7.38	0.0018 (ppm)	-324.7795
3/15/2018 16:15:03	Interference Check Solution AB	Tl (351.923 nm)	0.1139 (ppm)	2.43	0.1139 (ppm)	273.2134
3/15/2018 16:15:03	Interference Check Solution AB	V (292.401 nm)	0.5116 (ppm)	0.25	0.5116 (ppm)	15824.3941
3/15/2018 16:15:03	Interference Check Solution AB	Y (360.074 nm)	0.91 (Ratio)	0.70	0.91 (Ratio)	678992.52
3/15/2018 16:15:03	Interference Check Solution AB	Y_R (360.074 nm)	0.91 (Ratio)	0.70	0.91 (Ratio)	679123.84
3/15/2018 16:15:03	Interference Check Solution AB	Zn (213.857 nm)	0.9940 (ppm)	0.29	0.9940 (ppm)	27965.9207
3/15/2018 16:18:22	Continuing Calibration Verification	Ag (328.068 nm)	0.4830 (ppm)	0.12	0.4830 (ppm)	29653.4914
3/15/2018 16:18:22	Continuing Calibration Verification	Al (394.401 nm)	9.6306 (ppm)	0.23	9.6306 (ppm)	101864.4942
3/15/2018 16:18:22	Continuing Calibration Verification	As (188.980 nm)	0.9971 (ppm)	0.40	0.9971 (ppm)	862.9843
3/15/2018 16:18:22	Continuing Calibration Verification	B (249.772 nm)	2.4573 (ppm)	0.18	2.4573 (ppm)	65778.3157
3/15/2018 16:18:22	Continuing Calibration Verification	Ba (230.424 nm)	10.2889 (ppm)	0.05	10.2889 (ppm)	299555.7593
3/15/2018 16:18:22	Continuing Calibration Verification	Be (313.107 nm)	0.2526 (ppm)	0.23	0.2526 (ppm)	332141.1781
3/15/2018 16:18:22	Continuing Calibration Verification	Ca (227.547 nm)	24.2572 (ppm)	0.20	24.2572 (ppm)	1150.7567
3/15/2018 16:18:22	Continuing Calibration Verification	Cd (214.439 nm)	0.5116 (ppm)	0.18	0.5116 (ppm)	10594.4504
3/15/2018 16:18:22	Continuing Calibration Verification	Co (230.786 nm)	2.5724 (ppm)	0.10	2.5724 (ppm)	23781.4038
3/15/2018 16:18:22	Continuing Calibration Verification	Cr (267.716 nm)	0.5208 (ppm)	0.12	0.5208 (ppm)	22279.4350
3/15/2018 16:18:22	Continuing Calibration Verification	Cu (327.395 nm)	1.2187 (ppm)	0.21	1.2187 (ppm)	61414.1883
3/15/2018 16:18:22	Continuing Calibration Verification	Fe (234.350 nm)	5.0480 (ppm)	0.14	5.0480 (ppm)	49408.9082
3/15/2018 16:18:22	Continuing Calibration Verification	K (766.491 nm)	24.5775 (ppm)	0.39	24.5775 (ppm)	58762.4687
3/15/2018 16:18:22	Continuing Calibration Verification	Mg (279.078 nm)	24.9544 (ppm)	0.17	24.9544 (ppm)	45975.8912
3/15/2018 16:18:22	Continuing Calibration Verification	Mn (257.610 nm)	0.7676 (ppm)	0.15	0.7676 (ppm)	210568.1171
3/15/2018 16:18:22	Continuing Calibration Verification	Mo (202.032 nm)	2.4960 (ppm)	0.16	2.4960 (ppm)	22204.8247
3/15/2018 16:18:22	Continuing Calibration Verification	Na (588.995 nm)	24.7213 (ppm)	0.54	24.7213 (ppm)	853691.1313
3/15/2018 16:18:22	Continuing Calibration Verification	Ni (230.299 nm)	2.0640 (ppm)	0.12	2.0640 (ppm)	12956.6785
3/15/2018 16:18:22	Continuing Calibration Verification	Pb (220.353 nm)	0.5079 (ppm)	0.37	0.5079 (ppm)	1037.7365
3/15/2018 16:18:22	Continuing Calibration Verification	Sb (217.582 nm)	5.1072 (ppm)	0.25	5.1072 (ppm)	6516.5697
3/15/2018 16:18:22	Continuing Calibration Verification	Se (196.026 nm)	0.5112 (ppm)	0.80	0.5112 (ppm)	389.6830
3/15/2018 16:18:22	Continuing Calibration Verification	Sn (189.925 nm)	5.0720 (ppm)	0.13	5.0720 (ppm)	5741.0172
3/15/2018 16:18:22	Continuing Calibration Verification	Sr (216.596 nm)	2.5265 (ppm)	0.15	2.5265 (ppm)	32646.4971
3/15/2018 16:18:22	Continuing Calibration Verification	Ti (336.122 nm)	2.4963 (ppm)	0.18	2.4963 (ppm)	429315.5948
3/15/2018 16:18:22	Continuing Calibration Verification	Tl (351.923 nm)	1.0076 (ppm)	0.06	1.0076 (ppm)	2222.1041
3/15/2018 16:18:22	Continuing Calibration Verification	V (292.401 nm)	2.5146 (ppm)	0.08	2.5146 (ppm)	77252.4505
3/15/2018 16:18:22	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.59	0.98 (Ratio)	731544.59



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:18:22	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.59	0.98 (Ratio)	731610.39
3/15/2018 16:18:22	Continuing Calibration Verification	Zn (213.857 nm)	0.9693 (ppm)	0.15	0.9693 (ppm)	27270.6004
3/15/2018 16:21:41	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-95.6768
3/15/2018 16:21:41	Continuing Calibration Blank	Al (394.401 nm)	0.0016 (ppm)	43.56	0.0016 (ppm)	128.8549
3/15/2018 16:21:41	Continuing Calibration Blank	As (188.980 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-2.7403
3/15/2018 16:21:41	Continuing Calibration Blank	B (249.772 nm)	0.0013 (ppm)	17.11	0.0013 (ppm)	111.1151
3/15/2018 16:21:41	Continuing Calibration Blank	Ba (230.424 nm)	0.0002 (ppm)	38.30	0.0002 (ppm)	13.2619
3/15/2018 16:21:41	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	41.38	0.0000 (ppm)	-579.1358
3/15/2018 16:21:41	Continuing Calibration Blank	Ca (227.547 nm)	-0.0221 u (ppm)	> 100.00	-0.0221 (ppm)	5.2184
3/15/2018 16:21:41	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	18.0054
3/15/2018 16:21:41	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.5392
3/15/2018 16:21:41	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	64.08	0.0001 (ppm)	1.4690
3/15/2018 16:21:41	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	34.03	0.0001 (ppm)	13.1507
3/15/2018 16:21:41	Continuing Calibration Blank	Fe (234.350 nm)	0.0015 (ppm)	12.15	0.0015 (ppm)	33.1795
3/15/2018 16:21:41	Continuing Calibration Blank	K (766.491 nm)	0.0123 (ppm)	78.39	0.0123 (ppm)	24.9610
3/15/2018 16:21:41	Continuing Calibration Blank	Mg (279.078 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-6.2329
3/15/2018 16:21:41	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	43.97	0.0000 (ppm)	21.8611
3/15/2018 16:21:41	Continuing Calibration Blank	Mo (202.032 nm)	0.0018 (ppm)	19.39	0.0018 (ppm)	21.1531
3/15/2018 16:21:41	Continuing Calibration Blank	Na (588.995 nm)	0.0016 u (ppm)	93.20	0.0016 (ppm)	-8418.1746
3/15/2018 16:21:41	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	-20.4556
3/15/2018 16:21:41	Continuing Calibration Blank	Pb (220.353 nm)	-0.0015 u (ppm)	97.83	-0.0015 (ppm)	3.0622
3/15/2018 16:21:41	Continuing Calibration Blank	Sb (217.582 nm)	0.0023 (ppm)	> 100.00	0.0023 (ppm)	2.7918
3/15/2018 16:21:41	Continuing Calibration Blank	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	2.1347
3/15/2018 16:21:41	Continuing Calibration Blank	Sn (189.925 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	0.4753
3/15/2018 16:21:41	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.7804
3/15/2018 16:21:41	Continuing Calibration Blank	Ti (336.122 nm)	0.0009 (ppm)	14.55	0.0009 (ppm)	-487.1552
3/15/2018 16:21:41	Continuing Calibration Blank	Tl (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	24.4160
3/15/2018 16:21:41	Continuing Calibration Blank	V (292.401 nm)	0.0001 (ppm)	47.18	0.0001 (ppm)	136.5130
3/15/2018 16:21:41	Continuing Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.73	1.00 (Ratio)	746033.48
3/15/2018 16:21:41	Continuing Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.73	1.00 (Ratio)	746001.09
3/15/2018 16:21:41	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	72.80	0.0001 (ppm)	-24.0284
3/15/2018 16:25:01	PBW-309875	Ag (328.068 nm)	-0.0001 u (ppm)	71.09	-0.0001 (ppm)	-101.3482
3/15/2018 16:25:01	PBW-309875	Al (394.401 nm)	0.0036 (ppm)	76.45	0.0036 (ppm)	150.7605
3/15/2018 16:25:01	PBW-309875	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-3.6788
3/15/2018 16:25:01	PBW-309875	B (249.772 nm)	0.0014 (ppm)	11.02	0.0014 (ppm)	114.3708
3/15/2018 16:25:01	PBW-309875	Ba (230.424 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	3.1141
3/15/2018 16:25:01	PBW-309875	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-580.2524
3/15/2018 16:25:01	PBW-309875	Ca (227.547 nm)	-0.0409 u (ppm)	> 100.00	-0.0409 (ppm)	4.3306
3/15/2018 16:25:01	PBW-309875	Cd (214.439 nm)	-0.0002 u (ppm)	40.69	-0.0002 (ppm)	12.5066
3/15/2018 16:25:01	PBW-309875	Co (230.786 nm)	-0.0001 u (ppm)	89.32	-0.0001 (ppm)	-4.4272
3/15/2018 16:25:01	PBW-309875	Cr (267.716 nm)	0.0002 (ppm)	55.21	0.0002 (ppm)	3.3181
3/15/2018 16:25:01	PBW-309875	Cu (327.395 nm)	0.0003 (ppm)	38.32	0.0003 (ppm)	22.5831
3/15/2018 16:25:01	PBW-309875	Fe (234.350 nm)	0.0108 (ppm)	11.57	0.0108 (ppm)	123.6886
3/15/2018 16:25:01	PBW-309875	K (766.491 nm)	0.0051 u (ppm)	> 100.00	0.0051 (ppm)	7.6581
3/15/2018 16:25:01	PBW-309875	Mg (279.078 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	-1.0585
3/15/2018 16:25:01	PBW-309875	Mn (257.610 nm)	0.0000 (ppm)	55.12	0.0000 (ppm)	21.7920
3/15/2018 16:25:01	PBW-309875	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.9318
3/15/2018 16:25:01	PBW-309875	Na (588.995 nm)	0.0039 (ppm)	28.48	0.0039 (ppm)	-8337.7916
3/15/2018 16:25:01	PBW-309875	Ni (230.299 nm)	0.0010 (ppm)	31.10	0.0010 (ppm)	-16.9211
3/15/2018 16:25:01	PBW-309875	Pb (220.353 nm)	-0.0008 u (ppm)	52.89	-0.0008 (ppm)	4.5201
3/15/2018 16:25:01	PBW-309875	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	0.7812

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:25:01	PBW-309875	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	2.5582
3/15/2018 16:25:01	PBW-309875	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.1206
3/15/2018 16:25:01	PBW-309875	Sr (216.596 nm)	-0.0001 u (ppm)	43.49	-0.0001 (ppm)	-4.5507
3/15/2018 16:25:01	PBW-309875	Tl (336.122 nm)	0.0009 (ppm)	14.24	0.0009 (ppm)	-482.7540
3/15/2018 16:25:01	PBW-309875	Tl (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	22.7091
3/15/2018 16:25:01	PBW-309875	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	134.7781
3/15/2018 16:25:01	PBW-309875	Y (360.074 nm)	1.02 (Ratio)	0.28	1.02 (Ratio)	762244.81
3/15/2018 16:25:01	PBW-309875	Y_R (360.074 nm)	1.02 (Ratio)	0.28	1.02 (Ratio)	762199.75
3/15/2018 16:25:01	PBW-309875	Zn (213.857 nm)	0.0011 (ppm)	5.46	0.0011 (ppm)	2.7636
3/15/2018 16:28:21	LCSW-309875	Ag (328.068 nm)	0.0492 (ppm)	0.32	0.0492 (ppm)	2933.4996
3/15/2018 16:28:21	LCSW-309875	Al (394.401 nm)	1.8328 (ppm)	0.16	1.8328 (ppm)	19476.6379
3/15/2018 16:28:21	LCSW-309875	As (188.980 nm)	0.0425 (ppm)	9.64	0.0425 (ppm)	32.6382
3/15/2018 16:28:21	LCSW-309875	B (249.772 nm)	0.9659 (ppm)	0.18	0.9659 (ppm)	25900.8161
3/15/2018 16:28:21	LCSW-309875	Ba (230.424 nm)	2.0671 (ppm)	0.11	2.0671 (ppm)	60187.0693
3/15/2018 16:28:21	LCSW-309875	Be (313.107 nm)	0.0491 (ppm)	0.16	0.0491 (ppm)	64095.9319
3/15/2018 16:28:21	LCSW-309875	Ca (227.547 nm)	1.7933 (ppm)	2.08	1.7933 (ppm)	90.8728
3/15/2018 16:28:21	LCSW-309875	Cd (214.439 nm)	0.0515 (ppm)	0.23	0.0515 (ppm)	1081.3723
3/15/2018 16:28:21	LCSW-309875	Co (230.786 nm)	0.5136 (ppm)	0.17	0.5136 (ppm)	4744.8773
3/15/2018 16:28:21	LCSW-309875	Cr (267.716 nm)	0.2038 (ppm)	0.08	0.2038 (ppm)	8714.5415
3/15/2018 16:28:21	LCSW-309875	Cu (327.395 nm)	0.2434 (ppm)	0.36	0.2434 (ppm)	12271.0470
3/15/2018 16:28:21	LCSW-309875	Fe (234.350 nm)	0.9994 (ppm)	0.09	0.9994 (ppm)	9796.8410
3/15/2018 16:28:21	LCSW-309875	K (766.491 nm)	19.0770 (ppm)	0.31	19.0770 (ppm)	45610.1882
3/15/2018 16:28:21	LCSW-309875	Mg (279.078 nm)	1.9503 (ppm)	0.07	1.9503 (ppm)	3588.1995
3/15/2018 16:28:21	LCSW-309875	Mn (257.610 nm)	0.5004 (ppm)	0.07	0.5004 (ppm)	137277.6350
3/15/2018 16:28:21	LCSW-309875	Mo (202.032 nm)	0.4894 (ppm)	0.13	0.4894 (ppm)	4358.3352
3/15/2018 16:28:21	LCSW-309875	Na (588.995 nm)	19.2143 (ppm)	0.51	19.2143 (ppm)	661631.9104
3/15/2018 16:28:21	LCSW-309875	Ni (230.289 nm)	0.5034 (ppm)	0.28	0.5034 (ppm)	3142.4707
3/15/2018 16:28:21	LCSW-309875	Pb (220.353 nm)	0.5069 (ppm)	0.80	0.5069 (ppm)	1035.6268
3/15/2018 16:28:21	LCSW-309875	Sb (217.582 nm)	0.4705 (ppm)	0.79	0.4705 (ppm)	600.1296
3/15/2018 16:28:21	LCSW-309875	Se (196.026 nm)	1.0485 (ppm)	0.45	1.0485 (ppm)	796.3144
3/15/2018 16:28:21	LCSW-309875	Sn (189.925 nm)	4.9663 (ppm)	0.20	4.9663 (ppm)	5621.4092
3/15/2018 16:28:21	LCSW-309875	Sr (216.596 nm)	1.9970 (ppm)	0.21	1.9970 (ppm)	25803.9409
3/15/2018 16:28:21	LCSW-309875	Tl (336.122 nm)	0.4890 (ppm)	0.16	0.4890 (ppm)	83590.8115
3/15/2018 16:28:21	LCSW-309875	Tl (351.923 nm)	1.8436 (ppm)	0.34	1.8436 (ppm)	4045.3688
3/15/2018 16:28:21	LCSW-309875	V (292.401 nm)	0.4881 (ppm)	0.25	0.4881 (ppm)	15103.8631
3/15/2018 16:28:21	LCSW-309875	Y (360.074 nm)	1.01 (Ratio)	0.52	1.01 (Ratio)	749516.40
3/15/2018 16:28:21	LCSW-309875	Y_R (360.074 nm)	1.01 (Ratio)	0.52	1.01 (Ratio)	749534.81
3/15/2018 16:28:21	LCSW-309875	Zn (213.857 nm)	0.4805 (ppm)	0.42	0.4805 (ppm)	13505.0837
3/15/2018 16:31:41	R1801978-001 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-95.6494
3/15/2018 16:31:41	R1801978-001 10X	Al (394.401 nm)	0.0235 (ppm)	4.99	0.0235 (ppm)	360.4473
3/15/2018 16:31:41	R1801978-001 10X	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.3207
3/15/2018 16:31:41	R1801978-001 10X	B (249.772 nm)	0.0032 (ppm)	10.07	0.0032 (ppm)	160.7664
3/15/2018 16:31:41	R1801978-001 10X	Ba (230.424 nm)	0.0147 (ppm)	2.91	0.0147 (ppm)	435.3238
3/15/2018 16:31:41	R1801978-001 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-578.9062
3/15/2018 16:31:41	R1801978-001 10X	Ca (227.547 nm)	25.7453 (ppm)	2.06	25.7453 (ppm)	1220.9674
3/15/2018 16:31:41	R1801978-001 10X	Cd (214.439 nm)	-0.0004 u (ppm)	26.02	-0.0004 (ppm)	7.8637
3/15/2018 16:31:41	R1801978-001 10X	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.4810
3/15/2018 16:31:41	R1801978-001 10X	Cr (267.716 nm)	-0.0002 u (ppm)	4.28	-0.0002 (ppm)	-12.6083
3/15/2018 16:31:41	R1801978-001 10X	Cu (327.395 nm)	0.0005 (ppm)	21.36	0.0005 (ppm)	31.3846
3/15/2018 16:31:41	R1801978-001 10X	Fe (234.350 nm)	0.0087 (ppm)	3.50	0.0087 (ppm)	103.7925
3/15/2018 16:31:41	R1801978-001 10X	K (766.491 nm)	2.4683 (ppm)	1.53	2.4683 (ppm)	5897.4768

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:31:41	R1801978-001 10X	Mg (279.078 nm)	0.1645 (ppm)	1.76	0.1645 (ppm)	297.7272
3/15/2018 16:31:41	R1801978-001 10X	Mn (257.610 nm)	0.0192 (ppm)	1.42	0.0192 (ppm)	5276.3352
3/15/2018 16:31:41	R1801978-001 10X	Mo (202.032 nm)	0.0017 (ppm)	9.23	0.0017 (ppm)	20.2521
3/15/2018 16:31:41	R1801978-001 10X	Na (588.995 nm)	15.8410 (ppm)	1.64	15.8410 (ppm)	543986.0084
3/15/2018 16:31:41	R1801978-001 10X	Ni (230.299 nm)	0.0053 (ppm)	5.63	0.0053 (ppm)	10.1507
3/15/2018 16:31:41	R1801978-001 10X	Pb (220.353 nm)	-0.0026 u (ppm)	49.87	-0.0026 (ppm)	0.8271
3/15/2018 16:31:41	R1801978-001 10X	Sb (217.582 nm)	0.0028 u (ppm)	> 100.00	0.0028 (ppm)	3.3557
3/15/2018 16:31:41	R1801978-001 10X	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	2.9547
3/15/2018 16:31:41	R1801978-001 10X	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	0.4129
3/15/2018 16:31:41	R1801978-001 10X	Sr (216.596 nm)	0.4390 (ppm)	1.65	0.4390 (ppm)	5670.1944
3/15/2018 16:31:41	R1801978-001 10X	Ti (336.122 nm)	0.0024 (ppm)	1.94	0.0024 (ppm)	-217.0693
3/15/2018 16:31:41	R1801978-001 10X	Tl (351.923 nm)	-0.0019 u (ppm)	64.03	-0.0019 (ppm)	20.6656
3/15/2018 16:31:41	R1801978-001 10X	V (292.401 nm)	0.0006 (ppm)	72.45	0.0006 (ppm)	151.8079
3/15/2018 16:31:41	R1801978-001 10X	Y (360.074 nm)	1.02 (Ratio)	1.59	1.02 (Ratio)	759463.51
3/15/2018 16:31:41	R1801978-001 10X	Y_R (360.074 nm)	1.02 (Ratio)	1.59	1.02 (Ratio)	759509.32
3/15/2018 16:31:41	R1801978-001 10X	Zn (213.857 nm)	0.0039 (ppm)	1.74	0.0039 (ppm)	81.5586
3/15/2018 16:35:00	R1801978-001	Ag (328.068 nm)	0.0000 u (ppm)	37.26	0.0000 (ppm)	-99.7341
3/15/2018 16:35:00	R1801978-001	Al (394.401 nm)	0.1393 (ppm)	0.37	0.1393 (ppm)	1584.5355
3/15/2018 16:35:00	R1801978-001	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-2.8470
3/15/2018 16:35:00	R1801978-001	B (249.772 nm)	0.0298 (ppm)	1.00	0.0298 (ppm)	872.2633
3/15/2018 16:35:00	R1801978-001	Ba (230.424 nm)	0.1437 (ppm)	0.25	0.1437 (ppm)	4190.6867
3/15/2018 16:35:00	R1801978-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-599.6575
3/15/2018 16:35:00	R1801978-001	Ca (227.547 nm)	278.5093 o (ppm)	0.54	278.5093 (ppm)	13146.7953
3/15/2018 16:35:00	R1801978-001	Cd (214.439 nm)	-0.0001 u (ppm)	80.53	-0.0001 (ppm)	15.6919
3/15/2018 16:35:00	R1801978-001	Co (230.786 nm)	0.0019 (ppm)	39.42	0.0019 (ppm)	13.5468
3/15/2018 16:35:00	R1801978-001	Cr (267.716 nm)	-0.0002 u (ppm)	69.41	-0.0002 (ppm)	-13.0061
3/15/2018 16:35:00	R1801978-001	Cu (327.395 nm)	0.0040 (ppm)	3.96	0.0040 (ppm)	209.6241
3/15/2018 16:35:00	R1801978-001	Fe (234.350 nm)	0.0885 (ppm)	0.77	0.0885 (ppm)	884.4649
3/15/2018 16:35:00	R1801978-001	K (766.491 nm)	27.0107 (ppm)	0.71	27.0107 (ppm)	64580.4132
3/15/2018 16:35:00	R1801978-001	Mg (279.078 nm)	1.6419 (ppm)	0.66	1.6419 (ppm)	3019.9939
3/15/2018 16:35:00	R1801978-001	Mn (257.610 nm)	0.1863 (ppm)	0.46	0.1863 (ppm)	51124.3753
3/15/2018 16:35:00	R1801978-001	Mo (202.032 nm)	0.0098 (ppm)	1.12	0.0098 (ppm)	92.6128
3/15/2018 16:35:00	R1801978-001	Na (588.995 nm)	154.5902 o (ppm)	0.88	154.5902 (ppm)	5382908.7478
3/15/2018 16:35:00	R1801978-001	Ni (230.299 nm)	0.0332 (ppm)	1.09	0.0332 (ppm)	185.7198
3/15/2018 16:35:00	R1801978-001	Pb (220.353 nm)	-0.0011 u (ppm)	83.24	-0.0011 (ppm)	3.8108
3/15/2018 16:35:00	R1801978-001	Sb (217.582 nm)	0.0016 (ppm)	92.60	0.0016 (ppm)	1.8927
3/15/2018 16:35:00	R1801978-001	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	2.6180
3/15/2018 16:35:00	R1801978-001	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.7539
3/15/2018 16:35:00	R1801978-001	Sr (216.596 nm)	4.2205 (ppm)	0.53	4.2205 (ppm)	54538.0083
3/15/2018 16:35:00	R1801978-001	Ti (336.122 nm)	0.0027 (ppm)	2.10	0.0027 (ppm)	-178.6106
3/15/2018 16:35:00	R1801978-001	Tl (351.923 nm)	0.0028 (ppm)	87.74	0.0028 (ppm)	30.8766
3/15/2018 16:35:00	R1801978-001	V (292.401 nm)	0.0038 (ppm)	3.84	0.0038 (ppm)	249.7880
3/15/2018 16:35:00	R1801978-001	Y (360.074 nm)	0.95 (Ratio)	1.02	0.95 (Ratio)	704978.02
3/15/2018 16:35:00	R1801978-001	Y_R (360.074 nm)	0.95 (Ratio)	1.02	0.95 (Ratio)	705112.70
3/15/2018 16:35:00	R1801978-001	Zn (213.857 nm)	0.0019 (ppm)	6.00	0.0019 (ppm)	27.4776
3/15/2018 16:38:19	R1801978-001L	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-98.7762
3/15/2018 16:38:19	R1801978-001L	Al (394.401 nm)	0.0380 (ppm)	4.31	0.0380 (ppm)	514.2091
3/15/2018 16:38:19	R1801978-001L	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-4.0994
3/15/2018 16:38:19	R1801978-001L	B (249.772 nm)	0.0057 (ppm)	4.33	0.0057 (ppm)	227.0703
3/15/2018 16:38:19	R1801978-001L	Be (230.424 nm)	0.0289 (ppm)	2.89	0.0289 (ppm)	847.9260
3/15/2018 16:38:19	R1801978-001L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-580.2680

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:38:19	R1801978-001L	Ca (227.547 nm)	51.4827 (ppm)	3.19	51.4827 (ppm)	2435.3031
3/15/2018 16:38:19	R1801978-001L	Cd (214.439 nm)	-0.0005 u (ppm)	18.12	-0.0005 (ppm)	7.4886
3/15/2018 16:38:19	R1801978-001L	Co (230.786 nm)	0.0007 (ppm)	3.93	0.0007 (ppm)	2.5278
3/15/2018 16:38:19	R1801978-001L	Cr (267.716 nm)	-0.0001 u (ppm)	80.06	-0.0001 (ppm)	-9.3926
3/15/2018 16:38:19	R1801978-001L	Cu (327.395 nm)	0.0008 (ppm)	20.00	0.0008 (ppm)	48.5886
3/15/2018 16:38:19	R1801978-001L	Fe (234.350 nm)	0.0171 (ppm)	3.36	0.0171 (ppm)	186.1569
3/15/2018 16:38:19	R1801978-001L	K (766.491 nm)	4.9614 (ppm)	3.30	4.9614 (ppm)	11858.6424
3/15/2018 16:38:19	R1801978-001L	Mg (279.078 nm)	0.3227 (ppm)	3.10	0.3227 (ppm)	589.0932
3/15/2018 16:38:19	R1801978-001L	Mn (257.610 nm)	0.0371 (ppm)	2.92	0.0371 (ppm)	10180.6690
3/15/2018 16:38:19	R1801978-001L	Mo (202.032 nm)	0.0023 (ppm)	7.02	0.0023 (ppm)	25.6878
3/15/2018 16:38:19	R1801978-001L	Na (588.995 nm)	31.1898 (ppm)	3.11	31.1898 (ppm)	1079280.3653
3/15/2018 16:38:19	R1801978-001L	Ni (230.299 nm)	0.0089 (ppm)	7.37	0.0089 (ppm)	32.9342
3/15/2018 16:38:19	R1801978-001L	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.8172
3/15/2018 16:38:19	R1801978-001L	Sb (217.582 nm)	0.0037 (ppm)	16.46	0.0037 (ppm)	4.5360
3/15/2018 16:38:19	R1801978-001L	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	2.2038
3/15/2018 16:38:19	R1801978-001L	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.5556
3/15/2018 16:38:19	R1801978-001L	Sr (216.596 nm)	0.8531 (ppm)	3.00	0.8531 (ppm)	11021.2910
3/15/2018 16:38:19	R1801978-001L	Ti (336.122 nm)	0.0022 (ppm)	0.15	0.0022 (ppm)	-260.9398
3/15/2018 16:38:19	R1801978-001L	Tl (351.923 nm)	-0.0047 u (ppm)	33.09	-0.0047 (ppm)	14.4624
3/15/2018 16:38:19	R1801978-001L	V (292.401 nm)	0.0009 (ppm)	16.76	0.0009 (ppm)	161.7718
3/15/2018 16:38:19	R1801978-001L	Y (360.074 nm)	1.01 (Ratio)	2.48	1.01 (Ratio)	751620.16
3/15/2018 16:38:19	R1801978-001L	Y_R (360.074 nm)	1.01 (Ratio)	2.48	1.01 (Ratio)	751713.46
3/15/2018 16:38:19	R1801978-001L	Zn (213.857 nm)	0.0069 (ppm)	2.31	0.0069 (ppm)	166.5670
3/15/2018 16:41:38	R1802078-002	Ag (328.068 nm)	-0.0002 u (ppm)	72.14	-0.0002 (ppm)	-108.8952
3/15/2018 16:41:38	R1802078-002	Al (394.401 nm)	0.1540 (ppm)	1.02	0.1540 (ppm)	1738.9656
3/15/2018 16:41:38	R1802078-002	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-3.5207
3/15/2018 16:41:38	R1802078-002	B (249.772 nm)	0.0368 (ppm)	0.45	0.0368 (ppm)	1060.2450
3/15/2018 16:41:38	R1802078-002	Ba (230.424 nm)	0.0697 (ppm)	0.90	0.0697 (ppm)	2036.1423
3/15/2018 16:41:38	R1802078-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-591.4587
3/15/2018 16:41:38	R1802078-002	Ca (227.547 nm)	152.0531 u (ppm)	0.72	152.0531 (ppm)	7180.3798
3/15/2018 16:41:38	R1802078-002	Cd (214.439 nm)	0.0006 (ppm)	27.42	0.0006 (ppm)	30.4737
3/15/2018 16:41:38	R1802078-002	Co (230.786 nm)	-0.0003 u (ppm)	56.50	-0.0003 (ppm)	-6.2904
3/15/2018 16:41:38	R1802078-002	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.1219
3/15/2018 16:41:38	R1802078-002	Cu (327.395 nm)	0.0010 (ppm)	16.39	0.0010 (ppm)	57.3646
3/15/2018 16:41:38	R1802078-002	Fe (234.350 nm)	0.1737 (ppm)	0.45	0.1737 (ppm)	1717.9170
3/15/2018 16:41:38	R1802078-002	K (766.491 nm)	1.3488 (ppm)	1.12	1.3488 (ppm)	3220.6011
3/15/2018 16:41:38	R1802078-002	Mg (279.078 nm)	48.0996 (ppm)	0.33	48.0996 (ppm)	88623.6352
3/15/2018 16:41:38	R1802078-002	Mn (257.610 nm)	0.1731 (ppm)	0.42	0.1731 (ppm)	47495.4463
3/15/2018 16:41:38	R1802078-002	Mo (202.032 nm)	0.0004 (ppm)	56.82	0.0004 (ppm)	8.3158
3/15/2018 16:41:38	R1802078-002	Na (588.995 nm)	22.1395 (ppm)	0.69	22.1395 (ppm)	763650.1258
3/15/2018 16:41:38	R1802078-002	Ni (230.299 nm)	-0.0047 u (ppm)	12.92	-0.0047 (ppm)	-52.5136
3/15/2018 16:41:38	R1802078-002	Pb (220.353 nm)	-0.0018 u (ppm)	53.98	-0.0018 (ppm)	2.5010
3/15/2018 16:41:38	R1802078-002	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	1.5446
3/15/2018 16:41:38	R1802078-002	Se (196.026 nm)	-0.0038 u (ppm)	> 100.00	-0.0038 (ppm)	-0.0386
3/15/2018 16:41:38	R1802078-002	Sn (189.925 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-2.1344
3/15/2018 16:41:38	R1802078-002	Sr (216.596 nm)	0.1952 (ppm)	0.34	0.1952 (ppm)	2519.3176
3/15/2018 16:41:38	R1802078-002	Ti (336.122 nm)	0.0023 (ppm)	2.65	0.0023 (ppm)	-238.4229
3/15/2018 16:41:38	R1802078-002	Tl (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	23.4912
3/15/2018 16:41:38	R1802078-002	V (292.401 nm)	0.0005 (ppm)	49.73	0.0005 (ppm)	148.6010
3/15/2018 16:41:38	R1802078-002	Y (360.074 nm)	0.97 (Ratio)	0.74	0.97 (Ratio)	722382.08
3/15/2018 16:41:38	R1802078-002	Y_R (360.074 nm)	0.97 (Ratio)	0.74	0.97 (Ratio)	722498.41

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:41:38	R1802078-002	Zn (213.857 nm)	0.0057 (ppm)	1.43	0.0057 (ppm)	134.5712
3/15/2018 16:44:57	R1802078-004	Ag (328.068 nm)	-0.0002 u (ppm)	28.77	-0.0002 (ppm)	-109.1858
3/15/2018 16:44:57	R1802078-004	Al (394.401 nm)	0.0387 (ppm)	1.84	0.0387 (ppm)	520.8882
3/15/2018 16:44:57	R1802078-004	As (188.980 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	-2.6223
3/15/2018 16:44:57	R1802078-004	B (249.772 nm)	0.0360 (ppm)	0.93	0.0360 (ppm)	1038.5723
3/15/2018 16:44:57	R1802078-004	Ba (230.424 nm)	0.1387 (ppm)	0.34	0.1387 (ppm)	4043.1194
3/15/2018 16:44:57	R1802078-004	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-593.8262
3/15/2018 16:44:57	R1802078-004	Ca (227.547 nm)	77.1940 o (ppm)	0.36	77.1940 (ppm)	3648.4034
3/15/2018 16:44:57	R1802078-004	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.8858
3/15/2018 16:44:57	R1802078-004	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-5.3989
3/15/2018 16:44:57	R1802078-004	Cr (267.716 nm)	0.0006 (ppm)	34.48	0.0006 (ppm)	21.3717
3/15/2018 16:44:57	R1802078-004	Cu (327.395 nm)	0.0006 (ppm)	8.42	0.0006 (ppm)	40.3144
3/15/2018 16:44:57	R1802078-004	Fe (234.350 nm)	0.3025 (ppm)	0.29	0.3025 (ppm)	2978.0449
3/15/2018 16:44:57	R1802078-004	K (766.491 nm)	2.7300 (ppm)	0.48	2.7300 (ppm)	6523.2512
3/15/2018 16:44:57	R1802078-004	Mg (279.078 nm)	22.3429 (ppm)	0.25	22.3429 (ppm)	41163.8527
3/15/2018 16:44:57	R1802078-004	Mn (257.610 nm)	0.0858 (ppm)	0.21	0.0858 (ppm)	23549.7625
3/15/2018 16:44:57	R1802078-004	Mo (202.032 nm)	-0.0004 u (ppm)	87.49	-0.0004 (ppm)	1.6065
3/15/2018 16:44:57	R1802078-004	Na (588.995 nm)	7.6878 (ppm)	0.43	7.6878 (ppm)	259641.4696
3/15/2018 16:44:57	R1802078-004	Ni (230.299 nm)	-0.0080 u (ppm)	6.24	-0.0080 (ppm)	-73.2299
3/15/2018 16:44:57	R1802078-004	Pb (220.353 nm)	-0.0019 u (ppm)	16.58	-0.0019 (ppm)	2.1901
3/15/2018 16:44:57	R1802078-004	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.0259
3/15/2018 16:44:57	R1802078-004	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	2.1438
3/15/2018 16:44:57	R1802078-004	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6365
3/15/2018 16:44:57	R1802078-004	Sr (216.596 nm)	0.1418 (ppm)	0.51	0.1418 (ppm)	1829.3072
3/15/2018 16:44:57	R1802078-004	Ti (336.122 nm)	0.0012 (ppm)	4.98	0.0012 (ppm)	-437.6468
3/15/2018 16:44:57	R1802078-004	Tl (351.923 nm)	-0.0028 u (ppm)	95.20	-0.0028 (ppm)	18.7419
3/15/2018 16:44:57	R1802078-004	V (292.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	139.2241
3/15/2018 16:44:57	R1802078-004	Y (360.074 nm)	0.99 (Ratio)	0.52	0.99 (Ratio)	737594.18
3/15/2018 16:44:57	R1802078-004	Y_R (360.074 nm)	0.99 (Ratio)	0.52	0.99 (Ratio)	737658.40
3/15/2018 16:44:57	R1802078-004	Zn (213.857 nm)	0.0028 (ppm)	4.48	0.0028 (ppm)	51.4905
3/15/2018 16:48:16	R1802078-006	Ag (328.068 nm)	0.0000 u (ppm)	92.58	0.0000 (ppm)	-100.1557
3/15/2018 16:48:16	R1802078-006	Al (394.401 nm)	0.0327 (ppm)	2.40	0.0327 (ppm)	457.6705
3/15/2018 16:48:16	R1802078-006	As (188.980 nm)	0.0028 (ppm)	37.55	0.0028 (ppm)	-1.8776
3/15/2018 16:48:16	R1802078-006	B (249.772 nm)	0.0367 (ppm)	2.47	0.0367 (ppm)	1056.3717
3/15/2018 16:48:16	R1802078-006	Ba (230.424 nm)	0.1401 (ppm)	2.75	0.1401 (ppm)	4084.0991
3/15/2018 16:48:16	R1802078-006	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-586.9693
3/15/2018 16:48:16	R1802078-006	Ca (227.547 nm)	78.0451 o (ppm)	2.34	78.0451 (ppm)	3688.5609
3/15/2018 16:48:16	R1802078-006	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.3259
3/15/2018 16:48:16	R1802078-006	Co (230.786 nm)	-0.0003 u (ppm)	91.21	-0.0003 (ppm)	-6.5342
3/15/2018 16:48:16	R1802078-006	Cr (267.716 nm)	0.0010 (ppm)	2.96	0.0010 (ppm)	36.9329
3/15/2018 16:48:16	R1802078-006	Cu (327.395 nm)	0.0008 (ppm)	27.61	0.0008 (ppm)	46.4280
3/15/2018 16:48:16	R1802078-006	Fe (234.350 nm)	0.3006 (ppm)	2.37	0.3006 (ppm)	2959.2133
3/15/2018 16:48:16	R1802078-006	K (766.491 nm)	2.7691 (ppm)	2.57	2.7691 (ppm)	6616.6552
3/15/2018 16:48:16	R1802078-006	Mg (279.078 nm)	22.5902 (ppm)	2.30	22.5902 (ppm)	41619.6107
3/15/2018 16:48:16	R1802078-006	Mn (257.610 nm)	0.0858 (ppm)	2.42	0.0858 (ppm)	23559.8269
3/15/2018 16:48:16	R1802078-006	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.8751
3/15/2018 16:48:16	R1802078-006	Na (588.995 nm)	7.7794 (ppm)	2.45	7.7794 (ppm)	262834.1582
3/15/2018 16:48:16	R1802078-006	Ni (230.299 nm)	-0.0072 u (ppm)	12.88	-0.0072 (ppm)	-68.4998
3/15/2018 16:48:16	R1802078-006	Pb (220.353 nm)	-0.0025 u (ppm)	76.13	-0.0025 (ppm)	0.9918
3/15/2018 16:48:16	R1802078-006	Sb (217.582 nm)	0.0021 (ppm)	9.90	0.0021 (ppm)	2.4874
3/15/2018 16:48:16	R1802078-006	Se (196.026 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	0.5209

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:48:16	R1802078-006	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.4630
3/15/2018 16:48:16	R1802078-006	Sr (216.596 nm)	0.1441 (ppm)	2.68	0.1441 (ppm)	1859.4014
3/15/2018 16:48:16	R1802078-006	Ti (336.122 nm)	0.0010 (ppm)	8.56	0.0010 (ppm)	-459.3223
3/15/2018 16:48:16	R1802078-006	Tl (351.923 nm)	-0.0035 u (ppm)	> 100.00	-0.0035 (ppm)	17.0660
3/15/2018 16:48:16	R1802078-006	V (292.401 nm)	0.0004 (ppm)	75.82	0.0004 (ppm)	145.8744
3/15/2018 16:48:16	R1802078-006	Y (360.074 nm)	0.99 (Ratio)	2.61	0.99 (Ratio)	733147.75
3/15/2018 16:48:16	R1802078-006	Y_R (360.074 nm)	0.99 (Ratio)	2.61	0.99 (Ratio)	733207.99
3/15/2018 16:48:16	R1802078-006	Zn (213.857 nm)	0.0019 (ppm)	4.63	0.0019 (ppm)	27.3061
3/15/2018 16:51:31	R1802078-008	Ag (328.068 nm)	-0.0001 u (ppm)	14.78	-0.0001 (ppm)	-105.1400
3/15/2018 16:51:31	R1802078-008	Al (394.401 nm)	0.0915 (ppm)	0.20	0.0915 (ppm)	1079.2006
3/15/2018 16:51:31	R1802078-008	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-4.1748
3/15/2018 16:51:31	R1802078-008	B (249.772 nm)	0.0370 (ppm)	0.28	0.0370 (ppm)	1065.7445
3/15/2018 16:51:31	R1802078-008	Be (230.424 nm)	0.0722 (ppm)	0.57	0.0722 (ppm)	2108.4792
3/15/2018 16:51:31	R1802078-008	Be (313.107 nm)	0.0000 (ppm)	29.19	0.0000 (ppm)	-604.6836
3/15/2018 16:51:31	R1802078-008	Ca (227.547 nm)	88.8479 o (ppm)	0.66	88.8479 (ppm)	4198.2549
3/15/2018 16:51:31	R1802078-008	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.4715
3/15/2018 16:51:31	R1802078-008	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.0194
3/15/2018 16:51:31	R1802078-008	Cr (267.716 nm)	0.0002 (ppm)	89.62	0.0002 (ppm)	5.2893
3/15/2018 16:51:31	R1802078-008	Cu (327.395 nm)	0.0006 (ppm)	5.28	0.0006 (ppm)	40.4109
3/15/2018 16:51:31	R1802078-008	Fe (234.350 nm)	0.0667 (ppm)	0.64	0.0667 (ppm)	670.5718
3/15/2018 16:51:31	R1802078-008	K (766.491 nm)	2.8488 (ppm)	1.27	2.8488 (ppm)	6807.2991
3/15/2018 16:51:31	R1802078-008	Mg (279.078 nm)	20.7035 (ppm)	0.39	20.7035 (ppm)	38143.1536
3/15/2018 16:51:31	R1802078-008	Mn (257.610 nm)	0.0595 (ppm)	0.49	0.0595 (ppm)	16337.7047
3/15/2018 16:51:31	R1802078-008	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	7.5341
3/15/2018 16:51:31	R1802078-008	Na (588.995 nm)	8.6193 (ppm)	0.92	8.6193 (ppm)	292128.4645
3/15/2018 16:51:31	R1802078-008	Ni (230.299 nm)	-0.0077 u (ppm)	6.54	-0.0077 (ppm)	-71.2571
3/15/2018 16:51:31	R1802078-008	Pb (220.353 nm)	-0.0017 u (ppm)	79.50	-0.0017 (ppm)	2.6759
3/15/2018 16:51:31	R1802078-008	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	1.5665
3/15/2018 16:51:31	R1802078-008	Se (196.026 nm)	-0.0027 u (ppm)	58.92	-0.0027 (ppm)	0.7638
3/15/2018 16:51:31	R1802078-008	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.4566
3/15/2018 16:51:31	R1802078-008	Sr (216.596 nm)	0.2767 (ppm)	0.43	0.2767 (ppm)	3572.8859
3/15/2018 16:51:31	R1802078-008	Ti (336.122 nm)	0.0016 (ppm)	3.35	0.0016 (ppm)	-357.7353
3/15/2018 16:51:31	R1802078-008	Tl (351.923 nm)	-0.0047 u (ppm)	80.79	-0.0047 (ppm)	14.4944
3/15/2018 16:51:31	R1802078-008	V (292.401 nm)	0.0004 (ppm)	15.58	0.0004 (ppm)	145.5387
3/15/2018 16:51:31	R1802078-008	Y (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	736858.23
3/15/2018 16:51:31	R1802078-008	Y_R (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	736939.63
3/15/2018 16:51:31	R1802078-008	Zn (213.857 nm)	0.0032 (ppm)	8.33	0.0032 (ppm)	62.6588
3/15/2018 16:54:46	R1802078-010	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-104.5445
3/15/2018 16:54:46	R1802078-010	Al (394.401 nm)	0.0563 (ppm)	2.65	0.0563 (ppm)	707.0661
3/15/2018 16:54:46	R1802078-010	As (188.980 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	-1.6429
3/15/2018 16:54:46	R1802078-010	B (249.772 nm)	0.0161 (ppm)	0.79	0.0161 (ppm)	505.1435
3/15/2018 16:54:46	R1802078-010	Ba (230.424 nm)	0.0850 (ppm)	0.59	0.0850 (ppm)	2481.6694
3/15/2018 16:54:46	R1802078-010	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-581.7474
3/15/2018 16:54:46	R1802078-010	Ca (227.547 nm)	66.8219 o (ppm)	0.38	66.8219 (ppm)	3159.0293
3/15/2018 16:54:46	R1802078-010	Cd (214.439 nm)	-0.0002 u (ppm)	34.82	-0.0002 (ppm)	13.9212
3/15/2018 16:54:46	R1802078-010	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.0279
3/15/2018 16:54:46	R1802078-010	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-8.5400
3/15/2018 16:54:46	R1802078-010	Cu (327.395 nm)	0.0005 (ppm)	27.31	0.0005 (ppm)	31.2487
3/15/2018 16:54:46	R1802078-010	Fe (234.350 nm)	0.0533 (ppm)	0.43	0.0533 (ppm)	540.1957
3/15/2018 16:54:46	R1802078-010	K (766.491 nm)	1.9336 (ppm)	0.49	1.9336 (ppm)	4618.9112
3/15/2018 16:54:46	R1802078-010	Mg (279.078 nm)	14.4282 (ppm)	0.10	14.4282 (ppm)	26580.1440

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 16:54:46	R1802078-010	Mn (257.610 nm)	0.0296 (ppm)	0.06	0.0296 (ppm)	8131.4652
3/15/2018 16:54:46	R1802078-010	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	5.9147
3/15/2018 16:54:46	R1802078-010	Na (588.995 nm)	3.9947 (ppm)	0.48	3.9947 (ppm)	130844.0759
3/15/2018 16:54:46	R1802078-010	Ni (230.299 nm)	-0.0028 u (ppm)	60.04	-0.0028 (ppm)	-40.6389
3/15/2018 16:54:46	R1802078-010	Pb (220.353 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	1.6597
3/15/2018 16:54:46	R1802078-010	Sb (217.582 nm)	0.0015 (ppm)	62.59	0.0015 (ppm)	1.7715
3/15/2018 16:54:46	R1802078-010	Se (196.026 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	4.4272
3/15/2018 16:54:46	R1802078-010	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.9811
3/15/2018 16:54:46	R1802078-010	Sr (216.596 nm)	0.1003 (ppm)	0.61	0.1003 (ppm)	1293.5470
3/15/2018 16:54:46	R1802078-010	Ti (336.122 nm)	0.0011 (ppm)	3.71	0.0011 (ppm)	-441.0936
3/15/2018 16:54:46	R1802078-010	Ti (351.923 nm)	-0.0061 u (ppm)	27.67	-0.0061 (ppm)	11.4433
3/15/2018 16:54:46	R1802078-010	V (292.401 nm)	0.0003 (ppm)	80.07	0.0003 (ppm)	143.6973
3/15/2018 16:54:46	R1802078-010	Y (360.074 nm)	1.00 (Ratio)	0.55	1.00 (Ratio)	743400.09
3/15/2018 16:54:46	R1802078-010	Y_R (360.074 nm)	1.00 (Ratio)	0.55	1.00 (Ratio)	743469.25
3/15/2018 16:54:46	R1802078-010	Zn (213.857 nm)	0.0021 (ppm)	3.37	0.0021 (ppm)	31.7079
3/15/2018 16:58:03	Continuing Calibration Verification	Ag (328.068 nm)	0.4805 (ppm)	0.51	0.4805 (ppm)	29497.2156
3/15/2018 16:58:03	Continuing Calibration Verification	Al (394.401 nm)	9.6205 (ppm)	0.12	9.6205 (ppm)	101758.1000
3/15/2018 16:58:03	Continuing Calibration Verification	As (188.980 nm)	0.9957 (ppm)	0.37	0.9957 (ppm)	861.7797
3/15/2018 16:58:03	Continuing Calibration Verification	B (249.772 nm)	2.4446 (ppm)	0.53	2.4446 (ppm)	65438.1753
3/15/2018 16:58:03	Continuing Calibration Verification	Ba (230.424 nm)	10.2139 (ppm)	0.75	10.2139 (ppm)	297371.1008
3/15/2018 16:58:03	Continuing Calibration Verification	Be (313.107 nm)	0.2512 (ppm)	0.48	0.2512 (ppm)	330300.8463
3/15/2018 16:58:03	Continuing Calibration Verification	Ca (227.547 nm)	24.0353 (ppm)	0.68	24.0353 (ppm)	1140.2862
3/15/2018 16:58:03	Continuing Calibration Verification	Cd (214.439 nm)	0.5088 (ppm)	0.50	0.5088 (ppm)	10536.1011
3/15/2018 16:58:03	Continuing Calibration Verification	Co (230.786 nm)	2.5596 (ppm)	0.58	2.5596 (ppm)	23663.1558
3/15/2018 16:58:03	Continuing Calibration Verification	Cr (267.716 nm)	0.5179 (ppm)	0.55	0.5179 (ppm)	22154.6138
3/15/2018 16:58:03	Continuing Calibration Verification	Cu (327.395 nm)	1.2147 (ppm)	0.44	1.2147 (ppm)	61213.1772
3/15/2018 16:58:03	Continuing Calibration Verification	Fe (234.350 nm)	5.0038 (ppm)	0.53	5.0038 (ppm)	48976.8066
3/15/2018 16:58:03	Continuing Calibration Verification	K (766.491 nm)	24.6398 (ppm)	0.49	24.6398 (ppm)	58911.3456
3/15/2018 16:58:03	Continuing Calibration Verification	Mg (279.078 nm)	24.7979 (ppm)	0.54	24.7979 (ppm)	45687.5016
3/15/2018 16:58:03	Continuing Calibration Verification	Mn (257.610 nm)	0.7635 (ppm)	0.53	0.7635 (ppm)	209435.6741
3/15/2018 16:58:03	Continuing Calibration Verification	Mo (202.032 nm)	2.4852 (ppm)	0.60	2.4852 (ppm)	22108.6541
3/15/2018 16:58:03	Continuing Calibration Verification	Na (588.995 nm)	24.6534 (ppm)	0.21	24.6534 (ppm)	851320.6146
3/15/2018 16:58:03	Continuing Calibration Verification	Ni (230.299 nm)	2.0534 (ppm)	0.51	2.0534 (ppm)	12889.8525
3/15/2018 16:58:03	Continuing Calibration Verification	Pb (220.353 nm)	0.5050 (ppm)	0.86	0.5050 (ppm)	1031.8059
3/15/2018 16:58:03	Continuing Calibration Verification	Sb (217.582 nm)	5.0712 (ppm)	0.80	5.0712 (ppm)	6470.6031
3/15/2018 16:58:03	Continuing Calibration Verification	Se (196.026 nm)	0.5069 (ppm)	1.02	0.5069 (ppm)	386.4538
3/15/2018 16:58:03	Continuing Calibration Verification	Sn (189.925 nm)	5.0354 (ppm)	1.48	5.0354 (ppm)	5699.5370
3/15/2018 16:58:03	Continuing Calibration Verification	Sr (216.596 nm)	2.5110 (ppm)	0.67	2.5110 (ppm)	32446.3888
3/15/2018 16:58:03	Continuing Calibration Verification	Ti (336.122 nm)	2.4830 (ppm)	0.45	2.4830 (ppm)	427022.3368
3/15/2018 16:58:03	Continuing Calibration Verification	Ti (351.923 nm)	1.0019 (ppm)	0.69	1.0019 (ppm)	2209.7982
3/15/2018 16:58:03	Continuing Calibration Verification	V (292.401 nm)	2.5021 (ppm)	0.54	2.5021 (ppm)	76868.2288
3/15/2018 16:58:03	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.45	0.98 (Ratio)	732528.30
3/15/2018 16:58:03	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.45	0.98 (Ratio)	732582.01
3/15/2018 16:58:03	Continuing Calibration Verification	Zn (213.857 nm)	0.9637 (ppm)	0.54	0.9637 (ppm)	27113.6851
3/15/2018 17:01:21	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-96.3368
3/15/2018 17:01:21	Continuing Calibration Blank	Al (394.401 nm)	0.0016 (ppm)	15.45	0.0016 (ppm)	128.9745
3/15/2018 17:01:21	Continuing Calibration Blank	As (188.980 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	-1.8491
3/15/2018 17:01:21	Continuing Calibration Blank	B (249.772 nm)	0.0011 (ppm)	43.66	0.0011 (ppm)	105.7271
3/15/2018 17:01:21	Continuing Calibration Blank	Ba (230.424 nm)	0.0008 (ppm)	13.64	0.0008 (ppm)	28.5000
3/15/2018 17:01:21	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	7.72	0.0000 (ppm)	-545.9289
3/15/2018 17:01:21	Continuing Calibration Blank	Ca (227.547 nm)	-0.0332 u (ppm)	71.74	-0.0332 (ppm)	4.6971

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:01:21	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.7039
3/15/2018 17:01:21	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	47.18	-0.0001 (ppm)	-4.4832
3/15/2018 17:01:21	Continuing Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	21.64	0.0003 (ppm)	6.6938
3/15/2018 17:01:21	Continuing Calibration Blank	Cu (327.395 nm)	0.0002 (ppm)	7.94	0.0002 (ppm)	18.5067
3/15/2018 17:01:21	Continuing Calibration Blank	Fe (234.350 nm)	0.0012 (ppm)	18.17	0.0012 (ppm)	29.9198
3/15/2018 17:01:21	Continuing Calibration Blank	K (766.491 nm)	0.0209 (ppm)	49.60	0.0209 (ppm)	45.5297
3/15/2018 17:01:21	Continuing Calibration Blank	Mg (279.078 nm)	0.0020 (ppm)	58.01	0.0020 (ppm)	-1.7729
3/15/2018 17:01:21	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	42.16	0.0001 (ppm)	28.6669
3/15/2018 17:01:21	Continuing Calibration Blank	Mo (202.032 nm)	0.0016 (ppm)	16.10	0.0016 (ppm)	19.1560
3/15/2018 17:01:21	Continuing Calibration Blank	Na (588.995 nm)	0.0049 (ppm)	21.85	0.0049 (ppm)	-8301.4065
3/15/2018 17:01:21	Continuing Calibration Blank	Ni (230.299 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-21.6240
3/15/2018 17:01:21	Continuing Calibration Blank	Pb (220.353 nm)	-0.0010 u (ppm)	25.49	-0.0010 (ppm)	4.0210
3/15/2018 17:01:21	Continuing Calibration Blank	Sb (217.582 nm)	0.0055 (ppm)	42.12	0.0055 (ppm)	6.7929
3/15/2018 17:01:21	Continuing Calibration Blank	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	2.5197
3/15/2018 17:01:21	Continuing Calibration Blank	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.0083
3/15/2018 17:01:21	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.5840
3/15/2018 17:01:21	Continuing Calibration Blank	Ti (336.122 nm)	0.0010 (ppm)	3.66	0.0010 (ppm)	-464.5501
3/15/2018 17:01:21	Continuing Calibration Blank	Tl (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	22.0522
3/15/2018 17:01:21	Continuing Calibration Blank	V (292.401 nm)	0.0004 (ppm)	2.09	0.0004 (ppm)	144.3112
3/15/2018 17:01:21	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	750132.71
3/15/2018 17:01:21	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	750139.91
3/15/2018 17:01:21	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	22.46	0.0001 (ppm)	-22.8870
3/15/2018 17:04:39	R1802078-012	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-101.7704
3/15/2018 17:04:39	R1802078-012	Al (394.401 nm)	0.0734 (ppm)	0.72	0.0734 (ppm)	887.9619
3/15/2018 17:04:39	R1802078-012	As (188.980 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-3.2056
3/15/2018 17:04:39	R1802078-012	B (249.772 nm)	0.2575 (ppm)	0.19	0.2575 (ppm)	6959.5976
3/15/2018 17:04:39	R1802078-012	Ba (230.424 nm)	0.0715 (ppm)	0.24	0.0715 (ppm)	2087.7227
3/15/2018 17:04:39	R1802078-012	Be (313.107 nm)	0.0000 (ppm)	28.14	0.0000 (ppm)	-573.3944
3/15/2018 17:04:39	R1802078-012	Ca (227.547 nm)	124.9296 o (ppm)	0.12	124.9296 (ppm)	5900.6488
3/15/2018 17:04:39	R1802078-012	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.0183
3/15/2018 17:04:39	R1802078-012	Co (230.786 nm)	0.0003 (ppm)	61.94	0.0003 (ppm)	-0.7132
3/15/2018 17:04:39	R1802078-012	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.4120
3/15/2018 17:04:39	R1802078-012	Cu (327.395 nm)	0.0034 (ppm)	3.44	0.0034 (ppm)	178.8673
3/15/2018 17:04:39	R1802078-012	Fe (234.350 nm)	0.0642 (ppm)	0.08	0.0642 (ppm)	646.8358
3/15/2018 17:04:39	R1802078-012	K (766.491 nm)	3.5505 (ppm)	0.34	3.5505 (ppm)	8485.0325
3/15/2018 17:04:39	R1802078-012	Mg (279.078 nm)	20.9422 (ppm)	0.20	20.9422 (ppm)	38583.0532
3/15/2018 17:04:39	R1802078-012	Mn (257.610 nm)	0.0039 (ppm)	0.67	0.0039 (ppm)	1075.9962
3/15/2018 17:04:39	R1802078-012	Mo (202.032 nm)	0.0007 (ppm)	27.50	0.0007 (ppm)	10.8867
3/15/2018 17:04:39	R1802078-012	Na (588.995 nm)	33.4551 (ppm)	0.16	33.4551 (ppm)	1158284.8194
3/15/2018 17:04:39	R1802078-012	Ni (230.299 nm)	-0.0021 u (ppm)	49.38	-0.0021 (ppm)	-36.1833
3/15/2018 17:04:39	R1802078-012	Pb (220.353 nm)	-0.0021 u (ppm)	48.27	-0.0021 (ppm)	1.8800
3/15/2018 17:04:39	R1802078-012	Sb (217.582 nm)	0.0041 (ppm)	40.79	0.0041 (ppm)	5.0551
3/15/2018 17:04:39	R1802078-012	Se (196.026 nm)	-0.0037 u (ppm)	62.48	-0.0037 (ppm)	0.0312
3/15/2018 17:04:39	R1802078-012	Sn (189.925 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	-3.3786
3/15/2018 17:04:39	R1802078-012	Sr (216.596 nm)	0.2481 (ppm)	0.71	0.2481 (ppm)	3203.6739
3/15/2018 17:04:39	R1802078-012	Ti (336.122 nm)	0.0019 (ppm)	1.43	0.0019 (ppm)	-307.2726
3/15/2018 17:04:39	R1802078-012	Tl (351.923 nm)	-0.0029 u (ppm)	39.70	-0.0029 (ppm)	18.5264
3/15/2018 17:04:39	R1802078-012	V (292.401 nm)	0.0004 (ppm)	73.25	0.0004 (ppm)	146.5321
3/15/2018 17:04:39	R1802078-012	Y (360.074 nm)	0.98 (Ratio)	0.36	0.98 (Ratio)	731381.34
3/15/2018 17:04:39	R1802078-012	Y_R (360.074 nm)	0.98 (Ratio)	0.36	0.98 (Ratio)	731491.22
3/15/2018 17:04:39	R1802078-012	Zn (213.857 nm)	0.0048 (ppm)	2.09	0.0048 (ppm)	107.1606



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:08:02	R1802078-014	Ag (328.068 nm)	-0.0001 u (ppm)	33.10	-0.0001 (ppm)	-101.7220
3/15/2018 17:08:02	R1802078-014	Al (394.401 nm)	0.0590 (ppm)	1.60	0.0590 (ppm)	735.1426
3/15/2018 17:08:02	R1802078-014	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-4.0100
3/15/2018 17:08:02	R1802078-014	B (249.772 nm)	0.0160 (ppm)	0.96	0.0160 (ppm)	504.0090
3/15/2018 17:08:02	R1802078-014	Ba (230.424 nm)	0.0827 (ppm)	0.32	0.0827 (ppm)	2414.2080
3/15/2018 17:08:02	R1802078-014	Be (313.107 nm)	0.0000 (ppm)	71.50	0.0000 (ppm)	-575.2242
3/15/2018 17:08:02	R1802078-014	Ca (227.547 nm)	63.2373 o (ppm)	0.24	63.2373 (ppm)	2989.9043
3/15/2018 17:08:02	R1802078-014	Cd (214.439 nm)	-0.0001 u (ppm)	81.01	-0.0001 (ppm)	14.9256
3/15/2018 17:08:02	R1802078-014	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.6707
3/15/2018 17:08:02	R1802078-014	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.2151
3/15/2018 17:08:02	R1802078-014	Cu (327.395 nm)	0.0002 (ppm)	28.83	0.0002 (ppm)	17.1560
3/15/2018 17:08:02	R1802078-014	Fe (234.350 nm)	0.0562 (ppm)	0.62	0.0562 (ppm)	568.1357
3/15/2018 17:08:02	R1802078-014	K (766.491 nm)	1.8446 (ppm)	0.42	1.8446 (ppm)	4406.0131
3/15/2018 17:08:02	R1802078-014	Mg (279.078 nm)	14.0100 (ppm)	0.12	14.0100 (ppm)	25809.5331
3/15/2018 17:08:02	R1802078-014	Mn (257.610 nm)	0.0282 (ppm)	0.09	0.0282 (ppm)	7759.5512
3/15/2018 17:08:02	R1802078-014	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.0619
3/15/2018 17:08:02	R1802078-014	Na (588.995 nm)	3.8741 (ppm)	0.18	3.8741 (ppm)	126637.6929
3/15/2018 17:08:02	R1802078-014	Ni (230.299 nm)	-0.0038 u (ppm)	16.04	-0.0038 (ppm)	-47.0794
3/15/2018 17:08:02	R1802078-014	Pb (220.353 nm)	-0.0019 u (ppm)	88.91	-0.0019 (ppm)	2.1642
3/15/2018 17:08:02	R1802078-014	Sb (217.582 nm)	0.0027 (ppm)	91.56	0.0027 (ppm)	3.3086
3/15/2018 17:08:02	R1802078-014	Se (196.026 nm)	-0.0049 u (ppm)	42.74	-0.0049 (ppm)	-0.8795
3/15/2018 17:08:02	R1802078-014	Sn (189.925 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	-0.2602
3/15/2018 17:08:02	R1802078-014	Sr (216.596 nm)	0.0986 (ppm)	0.42	0.0986 (ppm)	1271.6109
3/15/2018 17:08:02	R1802078-014	Ti (336.122 nm)	0.0014 (ppm)	3.62	0.0014 (ppm)	-403.3389
3/15/2018 17:08:02	R1802078-014	Tl (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	22.2397
3/15/2018 17:08:02	R1802078-014	V (292.401 nm)	0.0003 (ppm)	24.25	0.0003 (ppm)	144.1101
3/15/2018 17:08:02	R1802078-014	Y (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	751100.15
3/15/2018 17:08:02	R1802078-014	Y_R (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	751200.37
3/15/2018 17:08:02	R1802078-014	Zn (213.857 nm)	0.0015 (ppm)	2.86	0.0015 (ppm)	15.6037
3/15/2018 17:11:26	R1802078-016	Ag (328.068 nm)	-0.0001 u (ppm)	64.76	-0.0001 (ppm)	-104.0260
3/15/2018 17:11:26	R1802078-016	Al (394.401 nm)	1.1910 (ppm)	0.01	1.1910 (ppm)	12695.2918
3/15/2018 17:11:26	R1802078-016	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-3.8740
3/15/2018 17:11:26	R1802078-016	B (249.772 nm)	0.0105 (ppm)	0.77	0.0105 (ppm)	355.2853
3/15/2018 17:11:26	R1802078-016	Ba (230.424 nm)	0.0998 (ppm)	0.61	0.0998 (ppm)	2911.0564
3/15/2018 17:11:26	R1802078-016	Be (313.107 nm)	0.0000 (ppm)	40.98	0.0000 (ppm)	-539.9248
3/15/2018 17:11:26	R1802078-016	Ca (227.547 nm)	22.7573 (ppm)	0.37	22.7573 (ppm)	1079.9873
3/15/2018 17:11:26	R1802078-016	Cd (214.439 nm)	0.0018 (ppm)	8.89	0.0018 (ppm)	54.0469
3/15/2018 17:11:26	R1802078-016	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.0094
3/15/2018 17:11:26	R1802078-016	Cr (267.716 nm)	0.0016 (ppm)	10.61	0.0016 (ppm)	63.8187
3/15/2018 17:11:26	R1802078-016	Cu (327.395 nm)	0.0018 (ppm)	4.08	0.0018 (ppm)	97.5638
3/15/2018 17:11:26	R1802078-016	Fe (234.350 nm)	0.7801 (ppm)	0.25	0.7801 (ppm)	7651.3937
3/15/2018 17:11:26	R1802078-016	K (766.491 nm)	1.3850 (ppm)	0.09	1.3850 (ppm)	3307.0935
3/15/2018 17:11:26	R1802078-016	Mg (279.078 nm)	5.1096 (ppm)	0.16	5.1096 (ppm)	9409.6442
3/15/2018 17:11:26	R1802078-016	Mn (257.610 nm)	0.0075 (ppm)	0.33	0.0075 (ppm)	2073.6199
3/15/2018 17:11:26	R1802078-016	Mo (202.032 nm)	0.0004 (ppm)	69.39	0.0004 (ppm)	8.6711
3/15/2018 17:11:26	R1802078-016	Na (588.995 nm)	8.0302 (ppm)	0.27	8.0302 (ppm)	271582.3070
3/15/2018 17:11:26	R1802078-016	Ni (230.299 nm)	-0.0057 u (ppm)	19.11	-0.0057 (ppm)	-59.0976
3/15/2018 17:11:26	R1802078-016	Pb (220.353 nm)	-0.0021 u (ppm)	76.83	-0.0021 (ppm)	1.7510
3/15/2018 17:11:26	R1802078-016	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.4607
3/15/2018 17:11:26	R1802078-016	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	2.7675
3/15/2018 17:11:26	R1802078-016	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6956

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:11:26	R1802078-016	Sr (216.596 nm)	0.0618 (ppm)	0.58	0.0618 (ppm)	795.6004
3/15/2018 17:11:26	R1802078-016	Ti (336.122 nm)	0.0103 (ppm)	0.79	0.0103 (ppm)	1143.1503
3/15/2018 17:11:26	R1802078-016	Ti (351.923 nm)	-0.0043 (ppm)	55.12	-0.0043 (ppm)	15.3434
3/15/2018 17:11:26	R1802078-016	V (292.401 nm)	0.0015 (ppm)	12.58	0.0015 (ppm)	179.8953
3/15/2018 17:11:26	R1802078-016	Y (360.074 nm)	1.02 (Ratio)	0.25	1.02 (Ratio)	756460.50
3/15/2018 17:11:26	R1802078-016	Y_R (360.074 nm)	1.02 (Ratio)	0.25	1.02 (Ratio)	756527.34
3/15/2018 17:11:26	R1802078-016	Zn (213.857 nm)	0.0351 (ppm)	0.29	0.0351 (ppm)	962.8392
3/15/2018 17:14:48	R1802078-018	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-104.6262
3/15/2018 17:14:48	R1802078-018	Al (394.401 nm)	0.6705 (ppm)	0.40	0.6705 (ppm)	7196.7452
3/15/2018 17:14:48	R1802078-018	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-2.8813
3/15/2018 17:14:48	R1802078-018	B (249.772 nm)	0.0129 (ppm)	0.43	0.0129 (ppm)	421.5888
3/15/2018 17:14:48	R1802078-018	Be (230.424 nm)	0.0555 (ppm)	0.44	0.0555 (ppm)	1623.6127
3/15/2018 17:14:48	R1802078-018	Be (313.107 nm)	0.0000 (ppm)	11.29	0.0000 (ppm)	-542.2155
3/15/2018 17:14:48	R1802078-018	Ce (227.547 nm)	35.3969 (ppm)	0.27	35.3969 (ppm)	1676.3454
3/15/2018 17:14:48	R1802078-018	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.4171
3/15/2018 17:14:48	R1802078-018	Co (230.786 nm)	0.0007 (ppm)	16.74	0.0007 (ppm)	2.7112
3/15/2018 17:14:48	R1802078-018	Cr (267.716 nm)	0.0009 (ppm)	9.37	0.0009 (ppm)	33.3290
3/15/2018 17:14:48	R1802078-018	Cu (327.395 nm)	0.0032 (ppm)	1.96	0.0032 (ppm)	171.8659
3/15/2018 17:14:48	R1802078-018	Fe (234.350 nm)	0.7091 (ppm)	0.36	0.7091 (ppm)	6956.8041
3/15/2018 17:14:48	R1802078-018	K (766.491 nm)	4.6796 (ppm)	0.72	4.6796 (ppm)	11184.8668
3/15/2018 17:14:48	R1802078-018	Mg (279.078 nm)	7.8068 (ppm)	0.27	7.8068 (ppm)	14379.5766
3/15/2018 17:14:48	R1802078-018	Mn (257.610 nm)	0.1197 (ppm)	0.27	0.1197 (ppm)	32852.8388
3/15/2018 17:14:48	R1802078-018	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.0063
3/15/2018 17:14:48	R1802078-018	Ne (588.995 nm)	2.5686 (ppm)	0.52	2.5686 (ppm)	81107.9884
3/15/2018 17:14:48	R1802078-018	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-24.7342
3/15/2018 17:14:48	R1802078-018	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.7129
3/15/2018 17:14:48	R1802078-018	Sb (217.582 nm)	0.0021 (ppm)	24.64	0.0021 (ppm)	2.5594
3/15/2018 17:14:48	R1802078-018	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	2.5231
3/15/2018 17:14:48	R1802078-018	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	0.3585
3/15/2018 17:14:48	R1802078-018	Sr (216.596 nm)	0.0705 (ppm)	0.27	0.0705 (ppm)	908.0728
3/15/2018 17:14:48	R1802078-018	Ti (336.122 nm)	0.0069 (ppm)	2.92	0.0069 (ppm)	554.4828
3/15/2018 17:14:48	R1802078-018	Ti (351.923 nm)	-0.0039 u (ppm)	89.56	-0.0039 (ppm)	16.3156
3/15/2018 17:14:48	R1802078-018	V (292.401 nm)	0.0015 (ppm)	14.74	0.0015 (ppm)	180.2604
3/15/2018 17:14:48	R1802078-018	Y (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	750829.54
3/15/2018 17:14:48	R1802078-018	Y_R (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	750891.73
3/15/2018 17:14:48	R1802078-018	Zn (213.857 nm)	0.0052 (ppm)	3.13	0.0052 (ppm)	118.4084
3/15/2018 17:18:08	R1802078-020	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-102.1741
3/15/2018 17:18:08	R1802078-020	Al (394.401 nm)	0.5496 (ppm)	0.48	0.5496 (ppm)	5918.8892
3/15/2018 17:18:08	R1802078-020	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-2.8401
3/15/2018 17:18:08	R1802078-020	B (249.772 nm)	0.0237 (ppm)	0.48	0.0237 (ppm)	710.0623
3/15/2018 17:18:08	R1802078-020	Ba (230.424 nm)	0.0570 (ppm)	0.47	0.0570 (ppm)	1667.2415
3/15/2018 17:18:08	R1802078-020	Be (313.107 nm)	0.0000 (ppm)	37.64	0.0000 (ppm)	-568.2144
3/15/2018 17:18:08	R1802078-020	Ce (227.547 nm)	34.5908 (ppm)	0.36	34.5908 (ppm)	1638.3116
3/15/2018 17:18:08	R1802078-020	Cd (214.439 nm)	0.0001 (ppm)	88.95	0.0001 (ppm)	18.8114
3/15/2018 17:18:08	R1802078-020	Co (230.786 nm)	0.0007 (ppm)	55.63	0.0007 (ppm)	2.4685
3/15/2018 17:18:08	R1802078-020	Cr (267.716 nm)	0.0024 (ppm)	4.61	0.0024 (ppm)	99.9021
3/15/2018 17:18:08	R1802078-020	Cu (327.395 nm)	0.0015 (ppm)	16.78	0.0015 (ppm)	85.1585
3/15/2018 17:18:08	R1802078-020	Fe (234.350 nm)	0.5829 (ppm)	0.23	0.5829 (ppm)	5722.0356
3/15/2018 17:18:08	R1802078-020	K (766.491 nm)	3.2993 (ppm)	0.53	3.2993 (ppm)	7884.3308
3/15/2018 17:18:08	R1802078-020	Mg (279.078 nm)	5.2460 (ppm)	0.26	5.2460 (ppm)	9661.0104
3/15/2018 17:18:08	R1802078-020	Mn (257.610 nm)	0.1051 (ppm)	0.27	0.1051 (ppm)	28827.9675

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:18:08	R1802078-020	Mg (202.032 nm)	0.0015 (ppm)	9.69	0.0015 (ppm)	18.4017
3/15/2018 17:18:08	R1802078-020	Na (588.995 nm)	8.1751 (ppm)	0.68	8.1751 (ppm)	276636.9398
3/15/2018 17:18:08	R1802078-020	Ni (230.299 nm)	-0.0058 u (ppm)	2.65	-0.0058 (ppm)	-59.2251
3/15/2018 17:18:08	R1802078-020	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.3278
3/15/2018 17:18:08	R1802078-020	Sb (217.582 nm)	0.0021 (ppm)	39.54	0.0021 (ppm)	2.5158
3/15/2018 17:18:08	R1802078-020	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	2.0034
3/15/2018 17:18:08	R1802078-020	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.4629
3/15/2018 17:18:08	R1802078-020	Sr (216.596 nm)	0.1940 (ppm)	0.65	0.1940 (ppm)	2503.9151
3/15/2018 17:18:08	R1802078-020	Ti (336.122 nm)	0.0046 (ppm)	8.61	0.0046 (ppm)	148.2637
3/15/2018 17:18:08	R1802078-020	Tl (351.923 nm)	-0.0044 u (ppm)	> 100.00	-0.0044 (ppm)	15.1496
3/15/2018 17:18:08	R1802078-020	V (292.401 nm)	0.0015 (ppm)	7.43	0.0015 (ppm)	180.4634
3/15/2018 17:18:08	R1802078-020	Y (360.074 nm)	1.01 (Ratio)	0.64	1.01 (Ratio)	750052.59
3/15/2018 17:18:08	R1802078-020	Y_R (360.074 nm)	1.01 (Ratio)	0.64	1.01 (Ratio)	750117.54
3/15/2018 17:18:08	R1802078-020	Zn (213.857 nm)	0.0034 (ppm)	1.77	0.0034 (ppm)	67.5179
3/15/2018 17:21:29	R1802078-022	Ag (328.068 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-106.4869
3/15/2018 17:21:29	R1802078-022	Al (394.401 nm)	0.1153 (ppm)	0.46	0.1153 (ppm)	1330.3535
3/15/2018 17:21:29	R1802078-022	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-4.1490
3/15/2018 17:21:29	R1802078-022	B (249.772 nm)	0.0116 (ppm)	0.73	0.0116 (ppm)	386.0152
3/15/2018 17:21:29	R1802078-022	Ba (230.424 nm)	0.0437 (ppm)	0.48	0.0437 (ppm)	1279.2093
3/15/2018 17:21:29	R1802078-022	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-585.5581
3/15/2018 17:21:29	R1802078-022	Ca (227.547 nm)	66.0748 o (ppm)	0.29	66.0748 (ppm)	3123.7819
3/15/2018 17:21:29	R1802078-022	Cd (214.439 nm)	-0.0001 u (ppm)	81.21	-0.0001 (ppm)	14.6228
3/15/2018 17:21:29	R1802078-022	Co (230.786 nm)	0.0003 (ppm)	47.12	0.0003 (ppm)	-1.3984
3/15/2018 17:21:29	R1802078-022	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.8669
3/15/2018 17:21:29	R1802078-022	Cu (327.395 nm)	0.0016 (ppm)	10.16	0.0016 (ppm)	87.6609
3/15/2018 17:21:29	R1802078-022	Fe (234.350 nm)	0.1194 (ppm)	0.62	0.1194 (ppm)	1186.5471
3/15/2018 17:21:29	R1802078-022	K (766.491 nm)	0.6443 (ppm)	0.93	0.6443 (ppm)	1536.0749
3/15/2018 17:21:29	R1802078-022	Mg (279.078 nm)	11.4180 (ppm)	0.32	11.4180 (ppm)	21033.5114
3/15/2018 17:21:29	R1802078-022	Mn (257.610 nm)	0.0049 (ppm)	0.31	0.0049 (ppm)	1344.2548
3/15/2018 17:21:29	R1802078-022	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	4.7198
3/15/2018 17:21:29	R1802078-022	Na (588.995 nm)	2.1124 (ppm)	0.41	2.1124 (ppm)	65198.1253
3/15/2018 17:21:29	R1802078-022	Ni (230.299 nm)	-0.0010 u (ppm)	50.50	-0.0010 (ppm)	-29.1387
3/15/2018 17:21:29	R1802078-022	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	3.5418
3/15/2018 17:21:29	R1802078-022	Sb (217.582 nm)	0.0022 (ppm)	29.99	0.0022 (ppm)	2.6493
3/15/2018 17:21:29	R1802078-022	Se (196.026 nm)	-0.0036 u (ppm)	68.74	-0.0036 (ppm)	0.1087
3/15/2018 17:21:29	R1802078-022	Sn (189.925 nm)	-0.0006 u (ppm)	62.40	-0.0006 (ppm)	-1.4374
3/15/2018 17:21:29	R1802078-022	Sr (216.596 nm)	0.0968 (ppm)	0.06	0.0968 (ppm)	1248.4211
3/15/2018 17:21:29	R1802078-022	Ti (336.122 nm)	0.0016 (ppm)	3.05	0.0016 (ppm)	-356.9561
3/15/2018 17:21:29	R1802078-022	Tl (351.923 nm)	-0.0070 u (ppm)	40.38	-0.0070 (ppm)	9.5645
3/15/2018 17:21:29	R1802078-022	V (292.401 nm)	0.0006 (ppm)	45.49	0.0006 (ppm)	151.0935
3/15/2018 17:21:29	R1802078-022	Y (360.074 nm)	1.00 (Ratio)	0.66	1.00 (Ratio)	743089.48
3/15/2018 17:21:29	R1802078-022	Y_R (360.074 nm)	1.00 (Ratio)	0.66	1.00 (Ratio)	743162.33
3/15/2018 17:21:29	R1802078-022	Zn (213.857 nm)	0.0016 (ppm)	5.61	0.0016 (ppm)	19.1292
3/15/2018 17:24:44	R1802078-024	Ag (328.068 nm)	-0.0001 u (ppm)	97.30	-0.0001 (ppm)	-103.2300
3/15/2018 17:24:44	R1802078-024	Al (394.401 nm)	0.0376 (ppm)	2.79	0.0376 (ppm)	509.2518
3/15/2018 17:24:44	R1802078-024	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-4.7108
3/15/2018 17:24:44	R1802078-024	B (249.772 nm)	0.0107 (ppm)	3.29	0.0107 (ppm)	362.5547
3/15/2018 17:24:44	R1802078-024	Ba (230.424 nm)	0.0726 (ppm)	2.27	0.0726 (ppm)	2121.3015
3/15/2018 17:24:44	R1802078-024	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-586.0832
3/15/2018 17:24:44	R1802078-024	Ca (227.547 nm)	75.5780 o (ppm)	1.60	75.5780 (ppm)	3572.1560
3/15/2018 17:24:44	R1802078-024	Cd (214.439 nm)	-0.0002 u (ppm)	82.27	-0.0002 (ppm)	13.8331

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:24:44	R1802078-024	Co (230.786 nm)	-0.0005 u (ppm)	70.90	-0.0005 (ppm)	-8.4710
3/15/2018 17:24:44	R1802078-024	Cr (267.716 nm)	-0.0001 u (ppm)	81.15	-0.0001 (ppm)	-9.7889
3/15/2018 17:24:44	R1802078-024	Cu (327.395 nm)	0.0006 (ppm)	10.54	0.0006 (ppm)	37.1122
3/15/2018 17:24:44	R1802078-024	Fe (234.350 nm)	0.0135 (ppm)	1.45	0.0135 (ppm)	149.9642
3/15/2018 17:24:44	R1802078-024	K (766.491 nm)	1.5668 (ppm)	1.60	1.5668 (ppm)	3741.7928
3/15/2018 17:24:44	R1802078-024	Mg (279.078 nm)	16.0724 (ppm)	1.54	16.0724 (ppm)	29609.7404
3/15/2018 17:24:44	R1802078-024	Mn (257.610 nm)	0.0052 (ppm)	1.54	0.0052 (ppm)	1424.6384
3/15/2018 17:24:44	R1802078-024	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.9698
3/15/2018 17:24:44	R1802078-024	Na (588.995 nm)	5.2285 (ppm)	2.19	5.2285 (ppm)	173871.6387
3/15/2018 17:24:44	R1802078-024	Ni (230.299 nm)	-0.0036 u (ppm)	18.16	-0.0036 (ppm)	-45.4719
3/15/2018 17:24:44	R1802078-024	Pb (220.353 nm)	-0.0031 u (ppm)	51.56	-0.0031 (ppm)	-0.2523
3/15/2018 17:24:44	R1802078-024	Sb (217.582 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-1.9475
3/15/2018 17:24:44	R1802078-024	Se (196.026 nm)	-0.0052 u (ppm)	> 100.00	-0.0052 (ppm)	-1.1386
3/15/2018 17:24:44	R1802078-024	Sn (189.925 nm)	-0.0013 u (ppm)	85.65	-0.0013 (ppm)	-2.2208
3/15/2018 17:24:44	R1802078-024	Sr (216.596 nm)	0.1013 (ppm)	2.38	0.1013 (ppm)	1305.6289
3/15/2018 17:24:44	R1802078-024	Ti (336.122 nm)	0.0016 (ppm)	2.62	0.0016 (ppm)	-355.3193
3/15/2018 17:24:44	R1802078-024	Ti (351.923 nm)	-0.0017 u (ppm)	59.71	-0.0017 (ppm)	21.1537
3/15/2018 17:24:44	R1802078-024	V (292.401 nm)	0.0002 (ppm)	54.56	0.0002 (ppm)	140.5881
3/15/2018 17:24:44	R1802078-024	Y (360.074 nm)	1.01 (Ratio)	1.36	1.01 (Ratio)	750878.35
3/15/2018 17:24:44	R1802078-024	Y_R (360.074 nm)	1.01 (Ratio)	1.35	1.01 (Ratio)	750972.69
3/15/2018 17:24:44	R1802078-024	Zn (213.857 nm)	0.0020 (ppm)	4.06	0.0020 (ppm)	28.3905
3/15/2018 17:27:55	R1802078-026	Ag (328.068 nm)	-0.0002 u (ppm)	8.75	-0.0002 (ppm)	-109.3389
3/15/2018 17:27:55	R1802078-026	Al (394.401 nm)	0.0608 (ppm)	1.15	0.0608 (ppm)	754.4547
3/15/2018 17:27:55	R1802078-026	As (188.880 nm)	0.0050 (ppm)	28.32	0.0050 (ppm)	0.0179
3/15/2018 17:27:55	R1802078-026	B (249.772 nm)	0.0219 (ppm)	0.41	0.0219 (ppm)	660.8365
3/15/2018 17:27:55	R1802078-026	Ba (230.424 nm)	0.1100 (ppm)	0.28	0.1100 (ppm)	3209.9518
3/15/2018 17:27:55	R1802078-026	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-591.0632
3/15/2018 17:27:55	R1802078-026	Cd (227.547 nm)	71.3788 u (ppm)	0.83	71.3788 (ppm)	3374.0310
3/15/2018 17:27:55	R1802078-026	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	14.4389
3/15/2018 17:27:55	R1802078-026	Co (230.786 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-7.5576
3/15/2018 17:27:55	R1802078-026	Cr (267.716 nm)	0.0002 (ppm)	59.71	0.0002 (ppm)	3.1647
3/15/2018 17:27:55	R1802078-026	Cu (327.395 nm)	0.0002 (ppm)	62.28	0.0002 (ppm)	18.3928
3/15/2018 17:27:55	R1802078-026	Fe (234.350 nm)	0.1222 (ppm)	0.72	0.1222 (ppm)	1213.9952
3/15/2018 17:27:55	R1802078-026	K (766.491 nm)	2.5144 (ppm)	0.75	2.5144 (ppm)	6007.6739
3/15/2018 17:27:55	R1802078-026	Mg (279.078 nm)	18.3851 (ppm)	0.51	18.3851 (ppm)	33871.2476
3/15/2018 17:27:55	R1802078-026	Mn (257.610 nm)	0.3433 (ppm)	0.47	0.3433 (ppm)	94192.8532
3/15/2018 17:27:55	R1802078-026	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.5003
3/15/2018 17:27:55	R1802078-026	Na (588.995 nm)	7.4651 (ppm)	0.77	7.4651 (ppm)	251874.6498
3/15/2018 17:27:55	R1802078-026	Ni (230.299 nm)	-0.0059 u (ppm)	10.31	-0.0059 (ppm)	-60.3820
3/15/2018 17:27:55	R1802078-026	Pb (220.353 nm)	-0.0034 u (ppm)	29.48	-0.0034 (ppm)	-0.7561
3/15/2018 17:27:55	R1802078-026	Sb (217.582 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	-2.7169
3/15/2018 17:27:55	R1802078-026	Se (196.026 nm)	-0.0031 u (ppm)	75.12	-0.0031 (ppm)	0.5115
3/15/2018 17:27:55	R1802078-026	Sn (189.925 nm)	-0.0039 u (ppm)	57.53	-0.0039 (ppm)	-5.1843
3/15/2018 17:27:55	R1802078-026	Sr (216.596 nm)	0.1665 (ppm)	0.54	0.1665 (ppm)	2148.1985
3/15/2018 17:27:55	R1802078-026	Ti (336.122 nm)	0.0012 (ppm)	4.30	0.0012 (ppm)	-425.8433
3/15/2018 17:27:55	R1802078-026	Ti (351.923 nm)	-0.0075 u (ppm)	24.45	-0.0075 (ppm)	8.3537
3/15/2018 17:27:55	R1802078-026	V (292.401 nm)	0.0003 (ppm)	55.94	0.0003 (ppm)	142.5656
3/15/2018 17:27:55	R1802078-026	Y (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	737181.80
3/15/2018 17:27:55	R1802078-026	Y_R (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	737271.67
3/15/2018 17:27:55	R1802078-026	Zn (213.857 nm)	0.0018 (ppm)	4.89	0.0018 (ppm)	22.8421
3/15/2018 17:31:12	R1802078-028	Ag (328.068 nm)	-0.0002 u (ppm)	50.74	-0.0002 (ppm)	-108.2543

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:31:12	R1802078-028	Al (394.401 nm)	0.1475 (ppm)	1.06	0.1475 (ppm)	1670.4276
3/15/2018 17:31:12	R1802078-028	As (188.980 nm)	0.0028 (ppm)	54.31	0.0028 (ppm)	-1.8881
3/15/2018 17:31:12	R1802078-028	B (249.772 nm)	0.0382 (ppm)	0.26	0.0382 (ppm)	1098.0440
3/15/2018 17:31:12	R1802078-028	Ba (230.424 nm)	0.0406 (ppm)	0.34	0.0406 (ppm)	1188.5759
3/15/2018 17:31:12	R1802078-028	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-594.3791
3/15/2018 17:31:12	R1802078-028	Ca (227.547 nm)	83.6388 o (ppm)	0.08	83.6388 (ppm)	3952.4802
3/15/2018 17:31:12	R1802078-028	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.6488
3/15/2018 17:31:12	R1802078-028	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-2.0877
3/15/2018 17:31:12	R1802078-028	Cr (267.716 nm)	0.0003 (ppm)	10.62	0.0003 (ppm)	9.9461
3/15/2018 17:31:12	R1802078-028	Cu (327.395 nm)	0.0004 (ppm)	30.98	0.0004 (ppm)	26.4298
3/15/2018 17:31:12	R1802078-028	Fe (234.350 nm)	0.1826 (ppm)	0.11	0.1826 (ppm)	1804.8145
3/15/2018 17:31:12	R1802078-028	K (766.491 nm)	2.8623 (ppm)	0.50	2.8623 (ppm)	6839.4110
3/15/2018 17:31:12	R1802078-028	Mg (279.078 nm)	25.6747 (ppm)	0.15	25.6747 (ppm)	47303.2356
3/15/2018 17:31:12	R1802078-028	Mn (257.610 nm)	0.0952 (ppm)	0.11	0.0952 (ppm)	26135.9771
3/15/2018 17:31:12	R1802078-028	Mo (202.032 nm)	0.0039 (ppm)	8.34	0.0039 (ppm)	39.5682
3/15/2018 17:31:12	R1802078-028	Na (588.995 nm)	28.8591 (ppm)	0.42	28.8591 (ppm)	997997.5454
3/15/2018 17:31:12	R1802078-028	Ni (230.299 nm)	-0.0057 u (ppm)	8.76	-0.0057 (ppm)	-58.5737
3/15/2018 17:31:12	R1802078-028	Pb (220.353 nm)	-0.0035 u (ppm)	39.35	-0.0035 (ppm)	-1.0088
3/15/2018 17:31:12	R1802078-028	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.7136
3/15/2018 17:31:12	R1802078-028	Se (196.026 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	1.6829
3/15/2018 17:31:12	R1802078-028	Sn (189.925 nm)	-0.0016 u (ppm)	16.72	-0.0016 (ppm)	-2.6252
3/15/2018 17:31:12	R1802078-028	Sr (216.596 nm)	0.2419 (ppm)	0.38	0.2419 (ppm)	3122.5143
3/15/2018 17:31:12	R1802078-028	Ti (336.122 nm)	0.0030 (ppm)	2.43	0.0030 (ppm)	-126.2230
3/15/2018 17:31:12	R1802078-028	Tl (351.923 nm)	-0.0029 u (ppm)	87.64	-0.0029 (ppm)	18.5351
3/15/2018 17:31:12	R1802078-028	V (292.401 nm)	0.0010 (ppm)	8.74	0.0010 (ppm)	163.3768
3/15/2018 17:31:12	R1802078-028	Y (360.074 nm)	0.99 (Ratio)	0.65	0.99 (Ratio)	734084.75
3/15/2018 17:31:12	R1802078-028	Y_R (360.074 nm)	0.99 (Ratio)	0.65	0.99 (Ratio)	734250.37
3/15/2018 17:31:12	R1802078-028	Zn (213.857 nm)	0.0038 (ppm)	1.43	0.0038 (ppm)	79.0234
3/15/2018 17:34:29	R1802078-030	Ag (328.068 nm)	-0.0001 u (ppm)	73.83	-0.0001 (ppm)	-104.3940
3/15/2018 17:34:29	R1802078-030	Al (394.401 nm)	0.8962 (ppm)	0.24	0.8962 (ppm)	9580.5810
3/15/2018 17:34:29	R1802078-030	As (188.980 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	-2.2759
3/15/2018 17:34:29	R1802078-030	B (249.772 nm)	0.0142 (ppm)	1.44	0.0142 (ppm)	454.0782
3/15/2018 17:34:29	R1802078-030	Ba (230.424 nm)	0.0215 (ppm)	0.26	0.0215 (ppm)	632.2972
3/15/2018 17:34:29	R1802078-030	Be (313.107 nm)	0.0000 (ppm)	22.33	0.0000 (ppm)	-548.7446
3/15/2018 17:34:29	R1802078-030	Ca (227.547 nm)	32.9432 (ppm)	0.40	32.9432 (ppm)	1560.5761
3/15/2018 17:34:29	R1802078-030	Cd (214.439 nm)	-0.0002 u (ppm)	26.08	-0.0002 (ppm)	11.9113
3/15/2018 17:34:29	R1802078-030	Co (230.786 nm)	0.0002 (ppm)	47.50	0.0002 (ppm)	-1.7513
3/15/2018 17:34:29	R1802078-030	Cr (267.716 nm)	0.0041 (ppm)	6.63	0.0041 (ppm)	171.7956
3/15/2018 17:34:29	R1802078-030	Cu (327.395 nm)	0.0026 (ppm)	6.59	0.0026 (ppm)	137.9856
3/15/2018 17:34:29	R1802078-030	Fe (234.350 nm)	0.6630 (ppm)	0.26	0.6630 (ppm)	6505.2467
3/15/2018 17:34:29	R1802078-030	K (766.491 nm)	2.8386 (ppm)	0.15	2.8386 (ppm)	6782.8340
3/15/2018 17:34:29	R1802078-030	Mg (279.078 nm)	21.0384 (ppm)	0.26	21.0384 (ppm)	38760.1985
3/15/2018 17:34:29	R1802078-030	Mn (257.610 nm)	0.0093 (ppm)	0.27	0.0093 (ppm)	2556.8236
3/15/2018 17:34:29	R1802078-030	Mo (202.032 nm)	0.0032 (ppm)	6.41	0.0032 (ppm)	33.9812
3/15/2018 17:34:29	R1802078-030	Na (588.995 nm)	17.3591 (ppm)	0.32	17.3591 (ppm)	596931.2449
3/15/2018 17:34:29	R1802078-030	Ni (230.299 nm)	-0.0015 u (ppm)	12.77	-0.0015 (ppm)	-32.2396
3/15/2018 17:34:29	R1802078-030	Pb (220.353 nm)	-0.0019 u (ppm)	32.36	-0.0019 (ppm)	2.2092
3/15/2018 17:34:29	R1802078-030	Sb (217.582 nm)	0.0010 (ppm)	64.15	0.0010 (ppm)	1.0852
3/15/2018 17:34:29	R1802078-030	Se (196.026 nm)	-0.0051 u (ppm)	> 100.00	-0.0051 (ppm)	-1.0310
3/15/2018 17:34:29	R1802078-030	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6886
3/15/2018 17:34:29	R1802078-030	Sr (216.596 nm)	0.0666 (ppm)	1.41	0.0666 (ppm)	857.6373

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:34:29	R1802078-030	Ti (336.122 nm)	0.0114 (ppm)	2.69	0.0114 (ppm)	1324.2524
3/15/2018 17:34:29	R1802078-030	Ti (351.923 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	21.5325
3/15/2018 17:34:29	R1802078-030	V (292.401 nm)	0.0011 (ppm)	22.97	0.0011 (ppm)	168.8010
3/15/2018 17:34:29	R1802078-030	Y (360.074 nm)	1.01 (Ratio)	0.45	1.01 (Ratio)	748283.41
3/15/2018 17:34:29	R1802078-030	Y_R (360.074 nm)	1.01 (Ratio)	0.46	1.01 (Ratio)	748461.91
3/15/2018 17:34:29	R1802078-030	Zn (213.857 nm)	0.0031 (ppm)	3.19	0.0031 (ppm)	59.2429
3/15/2018 17:37:46	Continuing Calibration Verification	Ag (328.068 nm)	0.4792 (ppm)	0.36	0.4792 (ppm)	29421.4965
3/15/2018 17:37:46	Continuing Calibration Verification	Al (394.401 nm)	9.5568 (ppm)	0.13	9.5568 (ppm)	101084.7710
3/15/2018 17:37:46	Continuing Calibration Verification	As (188.980 nm)	0.9867 (ppm)	2.54	0.9867 (ppm)	853.9850
3/15/2018 17:37:46	Continuing Calibration Verification	B (249.772 nm)	2.4332 (ppm)	0.49	2.4332 (ppm)	65132.5509
3/15/2018 17:37:46	Continuing Calibration Verification	Ba (230.424 nm)	10.2143 (ppm)	0.41	10.2143 (ppm)	297383.0785
3/15/2018 17:37:46	Continuing Calibration Verification	Be (313.107 nm)	0.2503 (ppm)	0.29	0.2503 (ppm)	329210.7457
3/15/2018 17:37:46	Continuing Calibration Verification	Ca (227.547 nm)	23.9178 (ppm)	0.22	23.9178 (ppm)	1134.7447
3/15/2018 17:37:46	Continuing Calibration Verification	Cd (214.439 nm)	0.5082 (ppm)	0.53	0.5082 (ppm)	10523.5699
3/15/2018 17:37:46	Continuing Calibration Verification	Co (230.786 nm)	2.5554 (ppm)	0.47	2.5554 (ppm)	23624.5595
3/15/2018 17:37:46	Continuing Calibration Verification	Cr (267.716 nm)	0.5170 (ppm)	0.46	0.5170 (ppm)	22116.7731
3/15/2018 17:37:46	Continuing Calibration Verification	Cu (327.395 nm)	1.2069 (ppm)	0.27	1.2069 (ppm)	60822.7345
3/15/2018 17:37:46	Continuing Calibration Verification	Fe (234.350 nm)	4.9899 (ppm)	0.43	4.9899 (ppm)	48840.5566
3/15/2018 17:37:46	Continuing Calibration Verification	K (766.491 nm)	24.4193 (ppm)	0.06	24.4193 (ppm)	58384.2493
3/15/2018 17:37:46	Continuing Calibration Verification	Mg (279.078 nm)	24.7601 (ppm)	0.50	24.7601 (ppm)	45617.8377
3/15/2018 17:37:46	Continuing Calibration Verification	Mn (257.610 nm)	0.7620 (ppm)	0.43	0.7620 (ppm)	209028.3100
3/15/2018 17:37:46	Continuing Calibration Verification	Mo (202.032 nm)	2.4783 (ppm)	0.43	2.4783 (ppm)	22048.0570
3/15/2018 17:37:46	Continuing Calibration Verification	Na (588.995 nm)	24.5600 (ppm)	0.26	24.5600 (ppm)	848062.6197
3/15/2018 17:37:46	Continuing Calibration Verification	Ni (230.299 nm)	2.0509 (ppm)	0.31	2.0509 (ppm)	12874.0538
3/15/2018 17:37:46	Continuing Calibration Verification	Pb (220.353 nm)	0.5039 (ppm)	0.78	0.5039 (ppm)	1029.5922
3/15/2018 17:37:46	Continuing Calibration Verification	Sb (217.582 nm)	5.0617 (ppm)	0.45	5.0617 (ppm)	6458.4982
3/15/2018 17:37:46	Continuing Calibration Verification	Se (196.026 nm)	0.5011 (ppm)	1.01	0.5011 (ppm)	381.9986
3/15/2018 17:37:46	Continuing Calibration Verification	Sn (189.925 nm)	5.0701 (ppm)	0.35	5.0701 (ppm)	5738.8502
3/15/2018 17:37:46	Continuing Calibration Verification	Sr (216.596 nm)	2.5134 (ppm)	0.35	2.5134 (ppm)	32477.3693
3/15/2018 17:37:46	Continuing Calibration Verification	Ti (336.122 nm)	2.4751 (ppm)	0.39	2.4751 (ppm)	425660.3858
3/15/2018 17:37:46	Continuing Calibration Verification	Ti (351.923 nm)	1.0025 (ppm)	0.61	1.0025 (ppm)	2211.1447
3/15/2018 17:37:46	Continuing Calibration Verification	V (292.401 nm)	2.4961 (ppm)	0.33	2.4961 (ppm)	76684.7962
3/15/2018 17:37:46	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.91	0.98 (Ratio)	728872.62
3/15/2018 17:37:46	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.91	0.98 (Ratio)	729025.71
3/15/2018 17:37:46	Continuing Calibration Verification	Zn (213.857 nm)	0.9642 (ppm)	0.38	0.9642 (ppm)	27128.4242
3/15/2018 17:41:04	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	38.90	-0.0001 (ppm)	-102.8105
3/15/2018 17:41:04	Continuing Calibration Blank	Al (394.401 nm)	0.0029 (ppm)	39.46	0.0029 (ppm)	142.4770
3/15/2018 17:41:04	Continuing Calibration Blank	As (188.980 nm)	0.0023 (ppm)	44.77	0.0023 (ppm)	-2.3399
3/15/2018 17:41:04	Continuing Calibration Blank	B (249.772 nm)	0.0014 (ppm)	11.53	0.0014 (ppm)	112.5827
3/15/2018 17:41:04	Continuing Calibration Blank	Ba (230.424 nm)	0.0018 (ppm)	29.96	0.0018 (ppm)	59.9495
3/15/2018 17:41:04	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	14.68	0.0000 (ppm)	-529.8668
3/15/2018 17:41:04	Continuing Calibration Blank	Ca (227.547 nm)	-0.0264 u (ppm)	22.98	-0.0264 (ppm)	5.0152
3/15/2018 17:41:04	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	72.70	0.0001 (ppm)	19.4699
3/15/2018 17:41:04	Continuing Calibration Blank	Co (230.786 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	0.7753
3/15/2018 17:41:04	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	38.15	0.0002 (ppm)	3.6803
3/15/2018 17:41:04	Continuing Calibration Blank	Cu (327.395 nm)	0.0003 (ppm)	56.27	0.0003 (ppm)	24.7950
3/15/2018 17:41:04	Continuing Calibration Blank	Fe (234.350 nm)	0.0020 (ppm)	23.51	0.0020 (ppm)	38.4095
3/15/2018 17:41:04	Continuing Calibration Blank	K (766.491 nm)	0.0149 (ppm)	11.69	0.0149 (ppm)	31.0750
3/15/2018 17:41:04	Continuing Calibration Blank	Mg (279.078 nm)	0.0052 (ppm)	26.73	0.0052 (ppm)	4.1679
3/15/2018 17:41:04	Continuing Calibration Blank	Mn (257.610 nm)	0.0001 (ppm)	32.90	0.0001 (ppm)	46.1258
3/15/2018 17:41:04	Continuing Calibration Blank	Mo (202.032 nm)	0.0023 (ppm)	11.34	0.0023 (ppm)	25.7209

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:41:04	Continuing Calibration Blank	Na (588.995 nm)	0.0060 (ppm)	28.16	0.0060 (ppm)	-8263.3784
3/15/2018 17:41:04	Continuing Calibration Blank	Ni (230.299 nm)	0.0007 (ppm)	40.79	0.0007 (ppm)	-18.3536
3/15/2018 17:41:04	Continuing Calibration Blank	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.0775
3/15/2018 17:41:04	Continuing Calibration Blank	Sb (217.582 nm)	0.0032 (ppm)	58.53	0.0032 (ppm)	3.9151
3/15/2018 17:41:04	Continuing Calibration Blank	Se (196.026 nm)	0.0028 u (ppm)	> 100.00	0.0028 (ppm)	4.9271
3/15/2018 17:41:04	Continuing Calibration Blank	Sn (189.925 nm)	0.0030 (ppm)	27.86	0.0030 (ppm)	2.6591
3/15/2018 17:41:04	Continuing Calibration Blank	Sr (216.596 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.1805
3/15/2018 17:41:04	Continuing Calibration Blank	Ti (336.122 nm)	0.0012 (ppm)	5.72	0.0012 (ppm)	-424.4496
3/15/2018 17:41:04	Continuing Calibration Blank	Tl (351.923 nm)	-0.0022 u (ppm)	77.24	-0.0022 (ppm)	19.9174
3/15/2018 17:41:04	Continuing Calibration Blank	V (292.401 nm)	0.0006 (ppm)	23.98	0.0006 (ppm)	151.9463
3/15/2018 17:41:04	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.87	1.01 (Ratio)	750479.90
3/15/2018 17:41:04	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.87	1.01 (Ratio)	750564.53
3/15/2018 17:41:04	Continuing Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	38.73	0.0002 (ppm)	-22.1468
3/15/2018 17:44:22	R1802078-032	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-102.9376
3/15/2018 17:44:22	R1802078-032	Al (394.401 nm)	0.4153 (ppm)	0.19	0.4153 (ppm)	4500.1622
3/15/2018 17:44:22	R1802078-032	As (188.980 nm)	0.0024 (ppm)	> 100.00	0.0024 (ppm)	-2.2216
3/15/2018 17:44:22	R1802078-032	B (249.772 nm)	0.0133 (ppm)	1.88	0.0133 (ppm)	429.8944
3/15/2018 17:44:22	R1802078-032	Ba (230.424 nm)	0.1087 (ppm)	0.23	0.1087 (ppm)	3172.3039
3/15/2018 17:44:22	R1802078-032	Be (313.107 nm)	0.0000 (ppm)	22.59	0.0000 (ppm)	-553.0675
3/15/2018 17:44:22	R1802078-032	Ca (227.547 nm)	70.9212 o (ppm)	0.46	70.9212 (ppm)	3352.4438
3/15/2018 17:44:22	R1802078-032	Cd (214.439 nm)	-0.0001 u (ppm)	6.51	-0.0001 (ppm)	14.6029
3/15/2018 17:44:22	R1802078-032	Co (230.786 nm)	0.0004 (ppm)	74.23	0.0004 (ppm)	-0.1709
3/15/2018 17:44:22	R1802078-032	Cr (267.716 nm)	0.0004 (ppm)	16.69	0.0004 (ppm)	12.6138
3/15/2018 17:44:22	R1802078-032	Cu (327.395 nm)	0.0010 (ppm)	7.52	0.0010 (ppm)	56.2934
3/15/2018 17:44:22	R1802078-032	Fe (234.350 nm)	0.5386 (ppm)	0.31	0.5386 (ppm)	5287.9779
3/15/2018 17:44:22	R1802078-032	K (766.491 nm)	1.6411 (ppm)	0.53	1.6411 (ppm)	3919.4496
3/15/2018 17:44:22	R1802078-032	Mg (279.078 nm)	23.7838 (ppm)	0.27	23.7838 (ppm)	43818.8923
3/15/2018 17:44:22	R1802078-032	Mn (257.610 nm)	0.2747 (ppm)	0.21	0.2747 (ppm)	75355.9037
3/15/2018 17:44:22	R1802078-032	Mo (202.032 nm)	0.0003 (ppm)	86.85	0.0003 (ppm)	7.6526
3/15/2018 17:44:22	R1802078-032	Na (588.995 nm)	6.2397 (ppm)	0.57	6.2397 (ppm)	209136.7825
3/15/2018 17:44:22	R1802078-032	Ni (230.299 nm)	-0.0044 u (ppm)	10.88	-0.0044 (ppm)	-50.8264
3/15/2018 17:44:22	R1802078-032	Pb (220.353 nm)	-0.0014 u (ppm)	35.58	-0.0014 (ppm)	3.2531
3/15/2018 17:44:22	R1802078-032	Sb (217.582 nm)	0.0032 u (ppm)	88.75	0.0032 (ppm)	3.8437
3/15/2018 17:44:22	R1802078-032	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	2.0788
3/15/2018 17:44:22	R1802078-032	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.7817
3/15/2018 17:44:22	R1802078-032	Sr (216.596 nm)	0.1024 (ppm)	0.37	0.1024 (ppm)	1320.0654
3/15/2018 17:44:22	R1802078-032	Ti (336.122 nm)	0.0037 (ppm)	1.92	0.0037 (ppm)	-0.0617
3/15/2018 17:44:22	R1802078-032	Tl (351.923 nm)	-0.0057 u (ppm)	82.41	-0.0057 (ppm)	12.3216
3/15/2018 17:44:22	R1802078-032	V (292.401 nm)	0.0011 (ppm)	17.44	0.0011 (ppm)	166.0292
3/15/2018 17:44:22	R1802078-032	Y (360.074 nm)	0.99 (Ratio)	0.51	0.99 (Ratio)	737673.53
3/15/2018 17:44:22	R1802078-032	Y_R (360.074 nm)	0.99 (Ratio)	0.50	0.99 (Ratio)	737814.44
3/15/2018 17:44:22	R1802078-032	Zn (213.857 nm)	0.0073 (ppm)	1.49	0.0073 (ppm)	177.5096
3/15/2018 17:47:40	R1802078-034	Ag (328.068 nm)	0.0001 (ppm)	82.82	0.0001 (ppm)	-93.0368
3/15/2018 17:47:40	R1802078-034	Al (394.401 nm)	0.0603 (ppm)	1.19	0.0603 (ppm)	749.6336
3/15/2018 17:47:40	R1802078-034	As (188.980 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	-1.5750
3/15/2018 17:47:40	R1802078-034	B (249.772 nm)	0.0242 (ppm)	0.37	0.0242 (ppm)	721.7224
3/15/2018 17:47:40	R1802078-034	Ba (230.424 nm)	0.0937 (ppm)	0.51	0.0937 (ppm)	2733.8679
3/15/2018 17:47:40	R1802078-034	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-589.2210
3/15/2018 17:47:40	R1802078-034	Ca (227.547 nm)	69.3797 o (ppm)	0.43	69.3797 (ppm)	3279.7112
3/15/2018 17:47:40	R1802078-034	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.6537
3/15/2018 17:47:40	R1802078-034	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.8022

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:47:40	R1802078-034	Cr (267.716 nm)	0.0064 (ppm)	2.13	0.0064 (ppm)	269.0774
3/15/2018 17:47:40	R1802078-034	Cu (327.395 nm)	0.0030 (ppm)	3.51	0.0030 (ppm)	160.6464
3/15/2018 17:47:40	R1802078-034	Fe (234.350 nm)	0.2224 (ppm)	0.42	0.2224 (ppm)	2194.3210
3/15/2018 17:47:40	R1802078-034	K (766.491 nm)	2.8147 (ppm)	0.40	2.8147 (ppm)	6725.6620
3/15/2018 17:47:40	R1802078-034	Mg (279.078 nm)	22.6898 (ppm)	0.34	22.6898 (ppm)	41803.0977
3/15/2018 17:47:40	R1802078-034	Mn (257.610 nm)	0.1022 (ppm)	0.29	0.1022 (ppm)	28059.4084
3/15/2018 17:47:40	R1802078-034	Mo (202.032 nm)	0.0030 (ppm)	5.54	0.0030 (ppm)	31.9306
3/15/2018 17:47:40	R1802078-034	Na (588.995 nm)	7.4740 (ppm)	0.64	7.4740 (ppm)	252184.4386
3/15/2018 17:47:40	R1802078-034	Ni (230.299 nm)	0.0121 (ppm)	9.99	0.0121 (ppm)	53.1124
3/15/2018 17:47:40	R1802078-034	Pb (220.353 nm)	-0.0031 u (ppm)	39.42	-0.0031 (ppm)	-0.2975
3/15/2018 17:47:40	R1802078-034	Sb (217.582 nm)	0.0023 (ppm)	31.16	0.0023 (ppm)	2.7307
3/15/2018 17:47:40	R1802078-034	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	2.9179
3/15/2018 17:47:40	R1802078-034	Sn (189.925 nm)	-0.0007 u (ppm)	85.30	-0.0007 (ppm)	-1.5893
3/15/2018 17:47:40	R1802078-034	Sr (216.596 nm)	0.1529 (ppm)	0.41	0.1529 (ppm)	1973.5670
3/15/2018 17:47:40	R1802078-034	Ti (336.122 nm)	0.0017 (ppm)	1.79	0.0017 (ppm)	-341.7614
3/15/2018 17:47:40	R1802078-034	Tl (351.923 nm)	-0.0051 u (ppm)	47.64	-0.0051 (ppm)	13.7645
3/15/2018 17:47:40	R1802078-034	V (292.401 nm)	0.0004 (ppm)	20.55	0.0004 (ppm)	145.9444
3/15/2018 17:47:40	R1802078-034	Y (360.074 nm)	1.00 (Ratio)	0.68	1.00 (Ratio)	740576.47
3/15/2018 17:47:40	R1802078-034	Y_R (360.074 nm)	1.00 (Ratio)	0.68	1.00 (Ratio)	740693.64
3/15/2018 17:47:40	R1802078-034	Zn (213.857 nm)	0.0059 (ppm)	2.32	0.0059 (ppm)	138.8154
3/15/2018 17:50:59	R1802078-034S	Ag (328.068 nm)	0.0480 (ppm)	0.74	0.0480 (ppm)	2857.6959
3/15/2018 17:50:59	R1802078-034S	Al (394.401 nm)	1.8657 (ppm)	0.23	1.8657 (ppm)	19824.8393
3/15/2018 17:50:59	R1802078-034S	As (188.980 nm)	0.0434 (ppm)	2.39	0.0434 (ppm)	33.3886
3/15/2018 17:50:59	R1802078-034S	B (249.772 nm)	0.9706 (ppm)	0.12	0.9706 (ppm)	26026.2829
3/15/2018 17:50:59	R1802078-034S	Ba (230.424 nm)	2.0312 (ppm)	0.32	2.0312 (ppm)	59141.5139
3/15/2018 17:50:59	R1802078-034S	Be (313.107 nm)	0.0472 (ppm)	0.07	0.0472 (ppm)	61568.7286
3/15/2018 17:50:59	R1802078-034S	Ca (227.547 nm)	71.7163 o (ppm)	0.33	71.7163 (ppm)	3389.9558
3/15/2018 17:50:59	R1802078-034S	Cd (214.439 nm)	0.0480 (ppm)	0.13	0.0480 (ppm)	1009.5667
3/15/2018 17:50:59	R1802078-034S	Co (230.786 nm)	0.4728 (ppm)	0.19	0.4728 (ppm)	4367.7842
3/15/2018 17:50:59	R1802078-034S	Cr (267.716 nm)	0.1941 (ppm)	0.02	0.1941 (ppm)	8298.7623
3/15/2018 17:50:59	R1802078-034S	Cu (327.395 nm)	0.2309 (ppm)	0.06	0.2309 (ppm)	11640.6750
3/15/2018 17:50:59	R1802078-034S	Fe (234.350 nm)	1.2215 (ppm)	0.15	1.2215 (ppm)	11969.6479
3/15/2018 17:50:59	R1802078-034S	K (766.491 nm)	21.4810 (ppm)	0.35	21.4810 (ppm)	51358.5012
3/15/2018 17:50:59	R1802078-034S	Mg (279.078 nm)	24.3238 (ppm)	0.06	24.3238 (ppm)	44813.9431
3/15/2018 17:50:59	R1802078-034S	Mn (257.610 nm)	0.6687 (ppm)	0.18	0.6687 (ppm)	183446.2582
3/15/2018 17:50:59	R1802078-034S	Mo (202.032 nm)	0.4704 (ppm)	0.09	0.4704 (ppm)	4189.1760
3/15/2018 17:50:59	R1802078-034S	Na (588.995 nm)	25.7854 (ppm)	0.36	25.7854 (ppm)	890800.0218
3/15/2018 17:50:59	R1802078-034S	Ni (230.299 nm)	0.4567 (ppm)	0.50	0.4567 (ppm)	2849.0872
3/15/2018 17:50:59	R1802078-034S	Pb (220.353 nm)	0.4768 (ppm)	0.53	0.4768 (ppm)	974.4736
3/15/2018 17:50:59	R1802078-034S	Sb (217.582 nm)	0.4623 (ppm)	0.24	0.4623 (ppm)	589.7578
3/15/2018 17:50:59	R1802078-034S	Se (196.026 nm)	1.0356 (ppm)	0.74	1.0356 (ppm)	786.5478
3/15/2018 17:50:59	R1802078-034S	Sn (189.925 nm)	4.8180 (ppm)	0.06	4.8180 (ppm)	5453.4719
3/15/2018 17:50:59	R1802078-034S	Sr (216.596 nm)	2.0187 (ppm)	0.47	2.0187 (ppm)	26084.7369
3/15/2018 17:50:59	R1802078-034S	Ti (336.122 nm)	0.4695 (ppm)	0.22	0.4695 (ppm)	80221.8359
3/15/2018 17:50:59	R1802078-034S	Tl (351.923 nm)	1.8344 (ppm)	0.12	1.8344 (ppm)	4025.3849
3/15/2018 17:50:59	R1802078-034S	V (292.401 nm)	0.4693 (ppm)	0.12	0.4693 (ppm)	14527.5280
3/15/2018 17:50:59	R1802078-034S	Y (360.074 nm)	0.99 (Ratio)	0.60	0.99 (Ratio)	736886.39
3/15/2018 17:50:59	R1802078-034S	Y_R (360.074 nm)	0.99 (Ratio)	0.60	0.99 (Ratio)	737019.51
3/15/2018 17:50:59	R1802078-034S	Zn (213.857 nm)	0.4539 (ppm)	0.46	0.4539 (ppm)	12756.5290
3/15/2018 17:54:17	R1802078-034SD	Ag (328.068 nm)	0.0492 (ppm)	0.25	0.0492 (ppm)	2931.8543
3/15/2018 17:54:17	R1802078-034SD	Al (394.401 nm)	1.9375 (ppm)	0.33	1.9375 (ppm)	20582.8074



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:54:17	R1802078-034SD	As (188.980 nm)	0.0393 (ppm)	1.60	0.0393 (ppm)	29.8616
3/15/2018 17:54:17	R1802078-034SD	B (249.772 nm)	1.0027 (ppm)	0.25	1.0027 (ppm)	26885.3759
3/15/2018 17:54:17	R1802078-034SD	Ba (230.424 nm)	2.1082 (ppm)	0.24	2.1082 (ppm)	61383.3498
3/15/2018 17:54:17	R1802078-034SD	Be (313.107 nm)	0.0489 (ppm)	0.20	0.0489 (ppm)	63834.7571
3/15/2018 17:54:17	R1802078-034SD	Ca (227.547 nm)	73.1981 o (ppm)	0.19	73.1981 (ppm)	3459.8705
3/15/2018 17:54:17	R1802078-034SD	Cd (214.439 nm)	0.0495 (ppm)	0.53	0.0495 (ppm)	1039.5842
3/15/2018 17:54:17	R1802078-034SD	Co (230.786 nm)	0.4897 (ppm)	0.20	0.4897 (ppm)	4524.1396
3/15/2018 17:54:17	R1802078-034SD	Cr (267.716 nm)	0.2010 (ppm)	0.20	0.2010 (ppm)	8594.0419
3/15/2018 17:54:17	R1802078-034SD	Cu (327.395 nm)	0.2413 (ppm)	0.18	0.2413 (ppm)	12167.1271
3/15/2018 17:54:17	R1802078-034SD	Fe (234.350 nm)	1.2702 (ppm)	0.26	1.2702 (ppm)	12446.6892
3/15/2018 17:54:17	R1802078-034SD	K (766.491 nm)	22.1693 (ppm)	0.51	22.1693 (ppm)	53004.1269
3/15/2018 17:54:17	R1802078-034SD	Mg (279.078 nm)	24.9028 (ppm)	0.17	24.9028 (ppm)	45880.7979
3/15/2018 17:54:17	R1802078-034SD	Mn (257.610 nm)	0.6916 (ppm)	0.20	0.6916 (ppm)	189724.6638
3/15/2018 17:54:17	R1802078-034SD	Mo (202.032 nm)	0.4853 (ppm)	0.20	0.4853 (ppm)	4321.2321
3/15/2018 17:54:17	R1802078-034SD	Na (588.995 nm)	26.6323 (ppm)	0.70	26.6323 (ppm)	920335.4118
3/15/2018 17:54:17	R1802078-034SD	Ni (230.299 nm)	0.4709 (ppm)	0.34	0.4709 (ppm)	2937.9973
3/15/2018 17:54:17	R1802078-034SD	Pb (220.353 nm)	0.4935 (ppm)	0.55	0.4935 (ppm)	1008.3466
3/15/2018 17:54:17	R1802078-034SD	Sb (217.582 nm)	0.4763 (ppm)	0.28	0.4763 (ppm)	607.5318
3/15/2018 17:54:17	R1802078-034SD	Se (196.026 nm)	1.0600 (ppm)	0.12	1.0600 (ppm)	804.9605
3/15/2018 17:54:17	R1802078-034SD	Sn (189.925 nm)	4.9588 (ppm)	0.66	4.9588 (ppm)	5612.8196
3/15/2018 17:54:17	R1802078-034SD	Sr (216.596 nm)	2.0858 (ppm)	0.41	2.0858 (ppm)	26951.0419
3/15/2018 17:54:17	R1802078-034SD	Ti (336.122 nm)	0.4842 (ppm)	0.23	0.4842 (ppm)	82754.5404
3/15/2018 17:54:17	R1802078-034SD	Tl (351.923 nm)	1.8993 (ppm)	0.52	1.8993 (ppm)	4166.8358
3/15/2018 17:54:17	R1802078-034SD	V (292.401 nm)	0.4856 (ppm)	0.25	0.4856 (ppm)	15024.9761
3/15/2018 17:54:17	R1802078-034SD	Y (360.074 nm)	0.99 (Ratio)	0.60	0.99 (Ratio)	735357.67
3/15/2018 17:54:17	R1802078-034SD	Y_R (360.074 nm)	0.99 (Ratio)	0.60	0.99 (Ratio)	735487.16
3/15/2018 17:54:17	R1802078-034SD	Zn (213.857 nm)	0.4672 (ppm)	0.40	0.4672 (ppm)	13130.4238
3/15/2018 17:57:35	R1802078-034A	Ag (328.068 nm)	0.0509 (ppm)	0.66	0.0509 (ppm)	3037.6260
3/15/2018 17:57:35	R1802078-034A	Al (394.401 nm)	1.9479 (ppm)	0.42	1.9479 (ppm)	20692.8923
3/15/2018 17:57:35	R1802078-034A	As (188.980 nm)	0.0396 (ppm)	5.53	0.0396 (ppm)	30.0902
3/15/2018 17:57:35	R1802078-034A	B (249.772 nm)	1.0051 (ppm)	0.38	1.0051 (ppm)	26950.4373
3/15/2018 17:57:35	R1802078-034A	Ba (230.424 nm)	2.0896 (ppm)	0.27	2.0896 (ppm)	60843.7840
3/15/2018 17:57:35	R1802078-034A	Be (313.107 nm)	0.0488 (ppm)	0.45	0.0488 (ppm)	63749.7666
3/15/2018 17:57:35	R1802078-034A	Ca (227.547 nm)	70.5812 o (ppm)	0.42	70.5812 (ppm)	3336.3984
3/15/2018 17:57:35	R1802078-034A	Cd (214.439 nm)	0.0499 (ppm)	0.31	0.0499 (ppm)	1048.2928
3/15/2018 17:57:35	R1802078-034A	Co (230.786 nm)	0.4889 (ppm)	0.57	0.4889 (ppm)	4516.5802
3/15/2018 17:57:35	R1802078-034A	Cr (267.716 nm)	0.2058 (ppm)	0.45	0.2058 (ppm)	8800.2774
3/15/2018 17:57:35	R1802078-034A	Cu (327.395 nm)	0.2390 (ppm)	0.59	0.2390 (ppm)	12052.1562
3/15/2018 17:57:35	R1802078-034A	Fe (234.350 nm)	1.2002 (ppm)	0.39	1.2002 (ppm)	11761.2965
3/15/2018 17:57:35	R1802078-034A	K (766.491 nm)	22.0666 (ppm)	0.58	22.0666 (ppm)	52758.7276
3/15/2018 17:57:35	R1802078-034A	Mg (279.078 nm)	24.0359 (ppm)	0.34	24.0359 (ppm)	44283.4873
3/15/2018 17:57:35	R1802078-034A	Mn (257.610 nm)	0.5922 (ppm)	0.44	0.5922 (ppm)	16246.4080
3/15/2018 17:57:35	R1802078-034A	Mo (202.032 nm)	0.4935 (ppm)	0.55	0.4935 (ppm)	4394.0004
3/15/2018 17:57:35	R1802078-034A	Na (588.995 nm)	26.4990 (ppm)	0.59	26.4990 (ppm)	915685.9365
3/15/2018 17:57:35	R1802078-034A	Ni (230.299 nm)	0.4873 (ppm)	0.42	0.4873 (ppm)	3041.3941
3/15/2018 17:57:35	R1802078-034A	Pb (220.353 nm)	0.4909 (ppm)	0.08	0.4909 (ppm)	1003.2217
3/15/2018 17:57:35	R1802078-034A	Sb (217.582 nm)	0.5124 (ppm)	0.66	0.5124 (ppm)	653.6761
3/15/2018 17:57:35	R1802078-034A	Se (196.026 nm)	1.1109 o (ppm)	0.75	1.1109 (ppm)	843.4875
3/15/2018 17:57:35	R1802078-034A	Sn (189.925 nm)	-0.0005 u (ppm)	81.18	-0.0005 (ppm)	-1.3324
3/15/2018 17:57:35	R1802078-034A	Sr (216.596 nm)	0.1484 (ppm)	0.42	0.1484 (ppm)	1914.8153
3/15/2018 17:57:35	R1802078-034A	Ti (336.122 nm)	0.4914 (ppm)	0.39	0.4914 (ppm)	84000.8630

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 17:57:35	R1802078-034A	Ti (351.923 nm)	1.8882 (ppm)	0.37	1.8882 (ppm)	4142.5634
3/15/2018 17:57:35	R1802078-034A	V (292.401 nm)	0.4851 (ppm)	0.38	0.4851 (ppm)	15011.4018
3/15/2018 17:57:35	R1802078-034A	Y (360.074 nm)	0.99 (Ratio)	0.76	0.99 (Ratio)	735302.59
3/15/2018 17:57:35	R1802078-034A	Y_R (360.074 nm)	0.99 (Ratio)	0.76	0.99 (Ratio)	735442.26
3/15/2018 17:57:35	R1802078-034A	Zn (213.857 nm)	0.4721 (ppm)	0.40	0.4721 (ppm)	13267.6807
3/15/2018 18:00:54	R1802078-034L	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-99.1212
3/15/2018 18:00:54	R1802078-034L	Al (394.401 nm)	0.0156 (ppm)	2.75	0.0156 (ppm)	277.2337
3/15/2018 18:00:54	R1802078-034L	As (188.980 nm)	0.0024 (ppm)	42.67	0.0024 (ppm)	-2.2198
3/15/2018 18:00:54	R1802078-034L	B (249.772 nm)	0.0056 (ppm)	3.25	0.0056 (ppm)	224.7237
3/15/2018 18:00:54	R1802078-034L	Ba (230.424 nm)	0.0198 (ppm)	1.12	0.0198 (ppm)	582.2074
3/15/2018 18:00:54	R1802078-034L	Be (313.107 nm)	0.0000 (ppm)	71.83	0.0000 (ppm)	-575.2059
3/15/2018 18:00:54	R1802078-034L	Ca (227.547 nm)	13.4239 (ppm)	1.58	13.4239 (ppm)	639.6265
3/15/2018 18:00:54	R1802078-034L	Cd (214.439 nm)	-0.0004 u (ppm)	27.48	-0.0004 (ppm)	9.3582
3/15/2018 18:00:54	R1802078-034L	Co (230.786 nm)	0.0004 (ppm)	54.26	0.0004 (ppm)	0.2638
3/15/2018 18:00:54	R1802078-034L	Cr (267.716 nm)	0.0013 (ppm)	2.00	0.0013 (ppm)	49.5041
3/15/2018 18:00:54	R1802078-034L	Cu (327.395 nm)	0.0007 (ppm)	19.76	0.0007 (ppm)	44.5786
3/15/2018 18:00:54	R1802078-034L	Fe (234.350 nm)	0.0444 (ppm)	1.06	0.0444 (ppm)	452.8270
3/15/2018 18:00:54	R1802078-034L	K (766.491 nm)	0.5545 (ppm)	0.12	0.5545 (ppm)	1321.3879
3/15/2018 18:00:54	R1802078-034L	Mg (279.078 nm)	4.5280 (ppm)	0.97	4.5280 (ppm)	8337.8984
3/15/2018 18:00:54	R1802078-034L	Mn (257.610 nm)	0.0211 (ppm)	0.62	0.0211 (ppm)	5788.2738
3/15/2018 18:00:54	R1802078-034L	Mo (202.032 nm)	0.0014 (ppm)	24.83	0.0014 (ppm)	17.8343
3/15/2018 18:00:54	R1802078-034L	Na (588.995 nm)	1.4729 (ppm)	0.82	1.4729 (ppm)	42895.9157
3/15/2018 18:00:54	R1802078-034L	Ni (230.299 nm)	0.0045 (ppm)	8.07	0.0045 (ppm)	5.5778
3/15/2018 18:00:54	R1802078-034L	Pb (220.353 nm)	-0.0016 u (ppm)	72.79	-0.0016 (ppm)	2.8734
3/15/2018 18:00:54	R1802078-034L	Sb (217.582 nm)	0.0025 (ppm)	69.86	0.0025 (ppm)	3.0670
3/15/2018 18:00:54	R1802078-034L	Se (196.026 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	1.0732
3/15/2018 18:00:54	R1802078-034L	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.3007
3/15/2018 18:00:54	R1802078-034L	Sr (216.596 nm)	0.0310 (ppm)	1.00	0.0310 (ppm)	397.9137
3/15/2018 18:00:54	R1802078-034L	Ti (351.923 nm)	0.0025 (ppm)	6.75	0.0025 (ppm)	-215.4393
3/15/2018 18:00:54	R1802078-034L	Ti (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	23.4427
3/15/2018 18:00:54	R1802078-034L	V (292.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	138.6289
3/15/2018 18:00:54	R1802078-034L	Y (360.074 nm)	1.02 (Ratio)	1.33	1.02 (Ratio)	758870.32
3/15/2018 18:00:54	R1802078-034L	Y_R (360.074 nm)	1.02 (Ratio)	1.33	1.02 (Ratio)	758963.95
3/15/2018 18:00:54	R1802078-034L	Zn (213.857 nm)	0.0051 (ppm)	2.61	0.0051 (ppm)	116.3426
3/15/2018 18:04:14	R1802078-036	Ag (328.068 nm)	0.0000 (ppm)	44.15	0.0000 (ppm)	-95.1591
3/15/2018 18:04:14	R1802078-036	Al (394.401 nm)	0.0325 (ppm)	2.19	0.0325 (ppm)	455.7159
3/15/2018 18:04:14	R1802078-036	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-4.1606
3/15/2018 18:04:14	R1802078-036	B (249.772 nm)	0.0585 (ppm)	0.33	0.0585 (ppm)	1640.5482
3/15/2018 18:04:14	R1802078-036	Ba (230.424 nm)	0.0808 (ppm)	0.31	0.0808 (ppm)	2357.9135
3/15/2018 18:04:14	R1802078-036	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-585.2143
3/15/2018 18:04:14	R1802078-036	Ca (227.547 nm)	95.5143 u (ppm)	0.34	95.5143 (ppm)	4512.7842
3/15/2018 18:04:14	R1802078-036	Cd (214.439 nm)	-0.0001 u (ppm)	65.40	-0.0001 (ppm)	14.6835
3/15/2018 18:04:14	R1802078-036	Co (230.786 nm)	-0.0002 u (ppm)	55.19	-0.0002 (ppm)	-6.0152
3/15/2018 18:04:14	R1802078-036	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-7.1943
3/15/2018 18:04:14	R1802078-036	Cu (327.395 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	21.2255
3/15/2018 18:04:14	R1802078-036	Fe (234.350 nm)	0.2580 (ppm)	0.21	0.2580 (ppm)	2542.6849
3/15/2018 18:04:14	R1802078-036	K (766.491 nm)	3.0489 (ppm)	0.62	3.0489 (ppm)	7285.7594
3/15/2018 18:04:14	R1802078-036	Mg (279.078 nm)	17.9137 (ppm)	0.40	17.9137 (ppm)	33002.5536
3/15/2018 18:04:14	R1802078-036	Mn (257.610 nm)	0.0487 (ppm)	0.28	0.0487 (ppm)	13371.6101
3/15/2018 18:04:14	R1802078-036	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.2337
3/15/2018 18:04:14	R1802078-036	Na (588.995 nm)	11.9420 (ppm)	0.58	11.9420 (ppm)	408008.3641

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:04:14	R1802078-036	Ni (230.299 nm)	-0.0089 u (ppm)	7.04	-0.0089 (ppm)	-79.0863
3/15/2018 18:04:14	R1802078-036	Pb (220.353 nm)	-0.0019 u (ppm)	47.02	-0.0019 (ppm)	2.1847
3/15/2018 18:04:14	R1802078-036	Sb (217.582 nm)	0.0013 (ppm)	62.58	0.0013 (ppm)	1.4833
3/15/2018 18:04:14	R1802078-036	Se (196.026 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	1.0403
3/15/2018 18:04:14	R1802078-036	Sn (189.925 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.6616
3/15/2018 18:04:14	R1802078-036	Sr (216.596 nm)	0.9213 (ppm)	0.59	0.9213 (ppm)	11903.3481
3/15/2018 18:04:14	R1802078-036	Ti (336.122 nm)	0.0014 (ppm)	6.25	0.0014 (ppm)	-399.5328
3/15/2018 18:04:14	R1802078-036	Ti (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	26.5013
3/15/2018 18:04:14	R1802078-036	V (292.401 nm)	0.0004 (ppm)	24.55	0.0004 (ppm)	147.2807
3/15/2018 18:04:14	R1802078-036	Y (360.074 nm)	0.99 (Ratio)	0.74	0.99 (Ratio)	736855.23
3/15/2018 18:04:14	R1802078-036	Y_R (360.074 nm)	0.99 (Ratio)	0.74	0.99 (Ratio)	737022.50
3/15/2018 18:04:14	R1802078-036	Zn (213.857 nm)	0.0052 (ppm)	1.79	0.0052 (ppm)	120.4316
3/15/2018 18:07:33	R1802078-038	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-98.5556
3/15/2018 18:07:33	R1802078-038	Al (394.401 nm)	0.2337 (ppm)	0.72	0.2337 (ppm)	2581.3667
3/15/2018 18:07:33	R1802078-038	As (188.980 nm)	0.0040 (ppm)	30.23	0.0040 (ppm)	-0.8329
3/15/2018 18:07:33	R1802078-038	B (249.772 nm)	0.0100 (ppm)	0.61	0.0100 (ppm)	343.2920
3/15/2018 18:07:33	R1802078-038	Ba (230.424 nm)	0.1436 (ppm)	0.69	0.1436 (ppm)	4188.1031
3/15/2018 18:07:33	R1802078-038	Be (313.107 nm)	0.0000 (ppm)	51.01	0.0000 (ppm)	-566.0205
3/15/2018 18:07:33	R1802078-038	Ca (227.547 nm)	55.4597 o (ppm)	0.66	55.4597 (ppm)	2622.9413
3/15/2018 18:07:33	R1802078-038	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.9417
3/15/2018 18:07:33	R1802078-038	Co (230.786 nm)	-0.0004 u (ppm)	34.60	-0.0004 (ppm)	-7.2467
3/15/2018 18:07:33	R1802078-038	Cr (267.716 nm)	0.0042 (ppm)	1.64	0.0042 (ppm)	174.2273
3/15/2018 18:07:33	R1802078-038	Cu (327.395 nm)	0.0023 (ppm)	0.83	0.0023 (ppm)	124.0990
3/15/2018 18:07:33	R1802078-038	Fe (234.350 nm)	0.4569 (ppm)	0.77	0.4569 (ppm)	4488.7980
3/15/2018 18:07:33	R1802078-038	K (766.491 nm)	1.2497 (ppm)	0.98	1.2497 (ppm)	2983.5379
3/15/2018 18:07:33	R1802078-038	Mg (279.078 nm)	12.6556 (ppm)	0.86	12.6556 (ppm)	23313.9550
3/15/2018 18:07:33	R1802078-038	Mn (257.610 nm)	0.0806 (ppm)	0.89	0.0806 (ppm)	22107.5397
3/15/2018 18:07:33	R1802078-038	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	7.1305
3/15/2018 18:07:33	R1802078-038	Na (588.995 nm)	5.5633 (ppm)	0.48	5.5633 (ppm)	185547.6781
3/15/2018 18:07:33	R1802078-038	Ni (230.299 nm)	-0.0035 u (ppm)	26.57	-0.0035 (ppm)	-44.8509
3/15/2018 18:07:33	R1802078-038	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	3.6893
3/15/2018 18:07:33	R1802078-038	Sb (217.582 nm)	0.0015 (ppm)	58.03	0.0015 (ppm)	1.7839
3/15/2018 18:07:33	R1802078-038	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	1.8551
3/15/2018 18:07:33	R1802078-038	Sn (189.925 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	0.1442
3/15/2018 18:07:33	R1802078-038	Sr (216.596 nm)	0.0880 (ppm)	0.24	0.0880 (ppm)	1134.2976
3/15/2018 18:07:33	R1802078-038	Ti (336.122 nm)	0.0023 (ppm)	8.87	0.0023 (ppm)	-242.1528
3/15/2018 18:07:33	R1802078-038	Ti (351.923 nm)	-0.0043 u (ppm)	70.66	-0.0043 (ppm)	15.4258
3/15/2018 18:07:33	R1802078-038	V (292.401 nm)	0.0006 (ppm)	6.30	0.0006 (ppm)	150.4710
3/15/2018 18:07:33	R1802078-038	Y (360.074 nm)	1.00 (Ratio)	0.28	1.00 (Ratio)	745885.87
3/15/2018 18:07:33	R1802078-038	Y_R (360.074 nm)	1.00 (Ratio)	0.28	1.00 (Ratio)	746022.35
3/15/2018 18:07:33	R1802078-038	Zn (213.857 nm)	0.0048 (ppm)	9.20	0.0048 (ppm)	108.9449
3/15/2018 18:10:52	R1802110-007	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-101.5419
3/15/2018 18:10:52	R1802110-007	Al (394.401 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	108.0387
3/15/2018 18:10:52	R1802110-007	As (188.980 nm)	0.0021 (ppm)	> 100.00	0.0021 (ppm)	-2.5350
3/15/2018 18:10:52	R1802110-007	B (249.772 nm)	-0.0005 u (ppm)	8.79	-0.0005 (ppm)	62.7569
3/15/2018 18:10:52	R1802110-007	Ba (230.424 nm)	-0.0003 u (ppm)	28.25	-0.0003 (ppm)	-2.4034
3/15/2018 18:10:52	R1802110-007	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-590.0398
3/15/2018 18:10:52	R1802110-007	Ca (227.547 nm)	-0.0515 u (ppm)	> 100.00	-0.0515 (ppm)	3.8326
3/15/2018 18:10:52	R1802110-007	Cd (214.439 nm)	-0.0005 u (ppm)	14.29	-0.0005 (ppm)	6.1173
3/15/2018 18:10:52	R1802110-007	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.9293
3/15/2018 18:10:52	R1802110-007	Cr (267.716 nm)	-0.0001 u (ppm)	86.39	-0.0001 (ppm)	-10.2642

*Blank  
no peaks  
on prep*

↓

*02/3/16/18*

*Cal/Al/As*

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:10:52	R1802110-007 <i>Blank no sample on prep</i>	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	10.7267
3/15/2018 18:10:52	R1802110-007	Fe (234.350 nm)	-0.0012 u (ppm)	18.09	-0.0012 (ppm)	6.8777
3/15/2018 18:10:52	R1802110-007	K (766.491 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-2.8549
3/15/2018 18:10:52	R1802110-007	Mg (279.078 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-7.5742
3/15/2018 18:10:52	R1802110-007	Mn (257.610 nm)	-0.0001 u (ppm)	13.15	-0.0001 (ppm)	-6.5167
3/15/2018 18:10:52	R1802110-007	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	3.2114
3/15/2018 18:10:52	R1802110-007	Na (588.995 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-8512.5860
3/15/2018 18:10:52	R1802110-007	Ni (230.299 nm)	0.0022 (ppm)	11.70	0.0022 (ppm)	-9.1990
3/15/2018 18:10:52	R1802110-007	Pb (220.353 nm)	-0.0012 u (ppm)	75.83	-0.0012 (ppm)	3.6513
3/15/2018 18:10:52	R1802110-007	Sb (217.582 nm)	0.0035 (ppm)	29.96	0.0035 (ppm)	4.2307
3/15/2018 18:10:52	R1802110-007	Se (196.026 nm)	-0.0073 u (ppm)	46.97	-0.0073 (ppm)	-2.6939
3/15/2018 18:10:52	R1802110-007	Sn (189.925 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	0.2613
3/15/2018 18:10:52	R1802110-007	Sr (216.596 nm)	-0.0002 u (ppm)	65.49	-0.0002 (ppm)	-4.9190
3/15/2018 18:10:52	R1802110-007	Ti (336.122 nm)	0.0022 (ppm)	4.00	0.0022 (ppm)	-263.0896
3/15/2018 18:10:52	R1802110-007	Tl (351.923 nm)	-0.0039 u (ppm)	49.57	-0.0039 (ppm)	16.4072
3/15/2018 18:10:52	R1802110-007	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	134.1465
3/15/2018 18:10:52	R1802110-007	Y (360.074 nm)	1.03 (Ratio)	1.80	1.03 (Ratio)	765901.15
3/15/2018 18:10:52	R1802110-007	Y_R (360.074 nm)	1.03 (Ratio)	1.80	1.03 (Ratio)	766017.72
3/15/2018 18:10:52	R1802110-007	Zn (213.857 nm)	0.0020 (ppm)	3.57	0.0020 (ppm)	28.8821
3/15/2018 18:14:12	Continuing Calibration Verification	Ag (328.068 nm)	0.4800 (ppm)	0.37	0.4800 (ppm)	29470.4973
3/15/2018 18:14:12	Continuing Calibration Verification	Al (394.401 nm)	9.5445 (ppm)	0.41	9.5445 (ppm)	100955.5479
3/15/2018 18:14:12	Continuing Calibration Verification	As (188.980 nm)	0.9933 (ppm)	0.60	0.9933 (ppm)	859.7410
3/15/2018 18:14:12	Continuing Calibration Verification	B (249.772 nm)	2.4371 (ppm)	0.37	2.4371 (ppm)	65237.4605
3/15/2018 18:14:12	Continuing Calibration Verification	Ba (230.424 nm)	10.2383 (ppm)	0.45	10.2383 (ppm)	298081.2360
3/15/2018 18:14:12	Continuing Calibration Verification	Be (313.107 nm)	0.2506 (ppm)	0.40	0.2506 (ppm)	329567.1220
3/15/2018 18:14:12	Continuing Calibration Verification	Ca (227.547 nm)	23.9445 (ppm)	0.43	23.9445 (ppm)	1136.0037
3/15/2018 18:14:12	Continuing Calibration Verification	Cd (214.439 nm)	0.5078 (ppm)	0.35	0.5078 (ppm)	10516.7011
3/15/2018 18:14:12	Continuing Calibration Verification	Co (230.786 nm)	2.5565 (ppm)	0.32	2.5565 (ppm)	23633.9816
3/15/2018 18:14:12	Continuing Calibration Verification	Cr (267.716 nm)	0.5166 (ppm)	0.24	0.5166 (ppm)	22098.5639
3/15/2018 18:14:12	Continuing Calibration Verification	Cu (327.395 nm)	1.2097 (ppm)	0.51	1.2097 (ppm)	60959.2193
3/15/2018 18:14:12	Continuing Calibration Verification	Fe (234.350 nm)	4.9921 (ppm)	0.31	4.9921 (ppm)	48862.2669
3/15/2018 18:14:12	Continuing Calibration Verification	K (766.491 nm)	24.4724 (ppm)	0.79	24.4724 (ppm)	58511.1327
3/15/2018 18:14:12	Continuing Calibration Verification	Mg (279.078 nm)	24.7657 (ppm)	0.37	24.7657 (ppm)	45628.2739
3/15/2018 18:14:12	Continuing Calibration Verification	Mn (257.610 nm)	0.7618 (ppm)	0.32	0.7618 (ppm)	208964.8952
3/15/2018 18:14:12	Continuing Calibration Verification	Mo (202.032 nm)	2.4795 (ppm)	0.36	2.4795 (ppm)	22057.8718
3/15/2018 18:14:12	Continuing Calibration Verification	Na (588.995 nm)	24.7175 (ppm)	0.55	24.7175 (ppm)	853558.5901
3/15/2018 18:14:12	Continuing Calibration Verification	Ni (230.299 nm)	2.0505 (ppm)	0.43	2.0505 (ppm)	12871.5276
3/15/2018 18:14:12	Continuing Calibration Verification	Pb (220.353 nm)	0.5040 (ppm)	0.39	0.5040 (ppm)	1029.7739
3/15/2018 18:14:12	Continuing Calibration Verification	Sb (217.582 nm)	5.0854 (ppm)	0.52	5.0854 (ppm)	6488.7099
3/15/2018 18:14:12	Continuing Calibration Verification	Se (196.026 nm)	0.5026 (ppm)	1.80	0.5026 (ppm)	383.1873
3/15/2018 18:14:12	Continuing Calibration Verification	Sn (189.925 nm)	5.0574 (ppm)	0.52	5.0574 (ppm)	5724.4951
3/15/2018 18:14:12	Continuing Calibration Verification	Sr (216.596 nm)	2.5160 (ppm)	0.34	2.5160 (ppm)	32511.2607
3/15/2018 18:14:12	Continuing Calibration Verification	Ti (336.122 nm)	2.4751 (ppm)	0.40	2.4751 (ppm)	425654.7069
3/15/2018 18:14:12	Continuing Calibration Verification	Tl (351.923 nm)	1.0016 (ppm)	0.65	1.0016 (ppm)	2209.1556
3/15/2018 18:14:12	Continuing Calibration Verification	V (292.401 nm)	2.4960 (ppm)	0.29	2.4960 (ppm)	76681.9878
3/15/2018 18:14:12	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.92	0.98 (Ratio)	730627.92
3/15/2018 18:14:12	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	730793.97
3/15/2018 18:14:12	Continuing Calibration Verification	Zn (213.857 nm)	0.9640 (ppm)	0.29	0.9640 (ppm)	27122.5940
3/15/2018 18:17:40	Continuing Calibration Blank	Ag (328.068 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-106.5699
3/15/2018 18:17:40	Continuing Calibration Blank	Al (394.401 nm)	0.0028 (ppm)	41.02	0.0028 (ppm)	142.0626
3/15/2018 18:17:40	Continuing Calibration Blank	As (188.980 nm)	0.0033 (ppm)	22.52	0.0033 (ppm)	-1.4573

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:17:40	Continuing Calibration Blank	B (249.772 nm)	0.0016 (ppm)	13.18	0.0016 (ppm)	118.8912
3/15/2018 18:17:40	Continuing Calibration Blank	Ba (230.424 nm)	0.0022 (ppm)	17.52	0.0022 (ppm)	69.1863
3/15/2018 18:17:40	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	9.67	0.0001 (ppm)	-510.5786
3/15/2018 18:17:40	Continuing Calibration Blank	Ca (227.547 nm)	-0.0412 u (ppm)	> 100.00	-0.0412 (ppm)	4.3179
3/15/2018 18:17:40	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	66.30	0.0001 (ppm)	18.4789
3/15/2018 18:17:40	Continuing Calibration Blank	Co (230.786 nm)	0.0004 (ppm)	12.00	0.0004 (ppm)	-0.1839
3/15/2018 18:17:40	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	63.12	0.0002 (ppm)	2.6711
3/15/2018 18:17:40	Continuing Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	9.67	0.0004 (ppm)	27.3799
3/15/2018 18:17:40	Continuing Calibration Blank	Fe (234.350 nm)	0.0020 (ppm)	1.35	0.0020 (ppm)	37.8225
3/15/2018 18:17:40	Continuing Calibration Blank	K (766.491 nm)	0.0156 (ppm)	16.16	0.0156 (ppm)	32.7210
3/15/2018 18:17:40	Continuing Calibration Blank	Mg (279.078 nm)	0.0054 (ppm)	12.18	0.0054 (ppm)	4.5479
3/15/2018 18:17:40	Continuing Calibration Blank	Mn (257.610 nm)	0.0002 (ppm)	22.91	0.0002 (ppm)	55.1938
3/15/2018 18:17:40	Continuing Calibration Blank	Mo (202.032 nm)	0.0023 (ppm)	8.56	0.0023 (ppm)	25.8902
3/15/2018 18:17:40	Continuing Calibration Blank	Na (588.995 nm)	0.0072 (ppm)	8.13	0.0072 (ppm)	-8222.3724
3/15/2018 18:17:40	Continuing Calibration Blank	Ni (230.299 nm)	0.0011 (ppm)	15.72	0.0011 (ppm)	-15.9846
3/15/2018 18:17:40	Continuing Calibration Blank	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	3.7093
3/15/2018 18:17:40	Continuing Calibration Blank	Sb (217.582 nm)	0.0038 (ppm)	70.77	0.0038 (ppm)	4.6237
3/15/2018 18:17:40	Continuing Calibration Blank	Se (196.026 nm)	0.0033 (ppm)	87.01	0.0033 (ppm)	5.3110
3/15/2018 18:17:40	Continuing Calibration Blank	Sn (189.925 nm)	0.0032 (ppm)	51.42	0.0032 (ppm)	2.9048
3/15/2018 18:17:40	Continuing Calibration Blank	Sr (216.596 nm)	0.0007 (ppm)	41.96	0.0007 (ppm)	6.7997
3/15/2018 18:17:40	Continuing Calibration Blank	Ti (336.122 nm)	0.0013 (ppm)	6.11	0.0013 (ppm)	-407.3807
3/15/2018 18:17:40	Continuing Calibration Blank	Ti (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	23.4658
3/15/2018 18:17:40	Continuing Calibration Blank	V (292.401 nm)	0.0007 (ppm)	29.85	0.0007 (ppm)	155.2449
3/15/2018 18:17:40	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.77	1.01 (Ratio)	751678.98
3/15/2018 18:17:40	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.77	1.01 (Ratio)	751838.52
3/15/2018 18:17:40	Continuing Calibration Blank	Zn (213.857 nm)	0.0002 (ppm)	10.02	0.0002 (ppm)	-21.6579
3/15/2018 18:21:05	Contract Required Detection Limit	Ag (328.068 nm)	0.0096 (ppm)	2.64	0.0096 (ppm)	494.0409
3/15/2018 18:21:05	Contract Required Detection Limit	Al (394.401 nm)	0.1732 (ppm)	0.30	0.1732 (ppm)	1941.8226
3/15/2018 18:21:05	Contract Required Detection Limit	As (188.980 nm)	0.0212 (ppm)	6.04	0.0212 (ppm)	14.0941
3/15/2018 18:21:05	Contract Required Detection Limit	B (249.772 nm)	0.1971 (ppm)	0.48	0.1971 (ppm)	5344.8186
3/15/2018 18:21:05	Contract Required Detection Limit	Ba (230.424 nm)	0.2076 (ppm)	0.27	0.2076 (ppm)	6050.2529
3/15/2018 18:21:05	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.33	0.0049 (ppm)	5908.2662
3/15/2018 18:21:05	Contract Required Detection Limit	Ca (227.547 nm)	0.9242 (ppm)	3.51	0.9242 (ppm)	49.8688
3/15/2018 18:21:05	Contract Required Detection Limit	Cd (214.439 nm)	0.0099 (ppm)	1.27	0.0099 (ppm)	222.5996
3/15/2018 18:21:05	Contract Required Detection Limit	Co (230.786 nm)	0.0500 (ppm)	1.12	0.0500 (ppm)	458.1509
3/15/2018 18:21:05	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	0.75	0.0102 (ppm)	432.2793
3/15/2018 18:21:05	Contract Required Detection Limit	Cu (327.395 nm)	0.0242 (ppm)	0.35	0.0242 (ppm)	1226.1271
3/15/2018 18:21:05	Contract Required Detection Limit	Fe (234.350 nm)	0.1044 (ppm)	0.29	0.1044 (ppm)	1039.4066
3/15/2018 18:21:05	Contract Required Detection Limit	K (766.491 nm)	0.9315 (ppm)	0.76	0.9315 (ppm)	2222.8393
3/15/2018 18:21:05	Contract Required Detection Limit	Mg (279.078 nm)	0.9961 (ppm)	0.71	0.9961 (ppm)	1829.9306
3/15/2018 18:21:05	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.56	0.0154 (ppm)	4223.3655
3/15/2018 18:21:05	Contract Required Detection Limit	Mo (202.032 nm)	0.0249 (ppm)	1.27	0.0249 (ppm)	226.5081
3/15/2018 18:21:05	Contract Required Detection Limit	Na (588.995 nm)	1.0243 (ppm)	0.65	1.0243 (ppm)	27249.6852
3/15/2018 18:21:05	Contract Required Detection Limit	Ni (230.299 nm)	0.0421 (ppm)	0.88	0.0421 (ppm)	241.4358
3/15/2018 18:21:05	Contract Required Detection Limit	Pb (220.353 nm)	0.0094 (ppm)	10.80	0.0094 (ppm)	25.2227
3/15/2018 18:21:05	Contract Required Detection Limit	Sb (217.582 nm)	0.0623 (ppm)	0.64	0.0623 (ppm)	79.3284
3/15/2018 18:21:05	Contract Required Detection Limit	Se (196.026 nm)	0.0128 R (ppm)	22.98	0.0128 (ppm)	12.5040 R
3/15/2018 18:21:05	Contract Required Detection Limit	Sn (189.925 nm)	0.5024 (ppm)	1.09	0.5024 (ppm)	568.0039
3/15/2018 18:21:05	Contract Required Detection Limit	Sr (216.596 nm)	0.1011 (ppm)	0.23	0.1011 (ppm)	1303.2624
3/15/2018 18:21:05	Contract Required Detection Limit	Ti (336.122 nm)	0.0504 (ppm)	0.24	0.0504 (ppm)	8044.0395
3/15/2018 18:21:05	Contract Required Detection Limit	Ti (351.923 nm)	0.0158 R (ppm)	12.85	0.0158 (ppm)	59.3152 R

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:21:05	Contract Required Detection Limit	V (292.401 nm)	0.0486 (ppm)	0.63	0.0486 (ppm)	1625.0255
3/15/2018 18:21:05	Contract Required Detection Limit	Y (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	757597.46
3/15/2018 18:21:05	Contract Required Detection Limit	Y_R (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	757797.69
3/15/2018 18:21:05	Contract Required Detection Limit	Zn (213.857 nm)	0.0196 (ppm)	1.46	0.0196 (ppm)	523.7653
3/15/2018 18:24:27	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-100.6541
3/15/2018 18:24:27	Interference Check Solution A	Al (394.401 nm)	265.1083 o (ppm)	0.28	265.1083 (ppm)	2801130.5700
3/15/2018 18:24:27	Interference Check Solution A	As (188.980 nm)	0.0032 (ppm)	19.66	0.0032 (ppm)	-1.5768
3/15/2018 18:24:27	Interference Check Solution A	B (249.772 nm)	0.0415 (ppm)	0.74	0.0415 (ppm)	1185.9980
3/15/2018 18:24:27	Interference Check Solution A	Ba (230.424 nm)	0.0003 (ppm)	96.51	0.0003 (ppm)	15.6724
3/15/2018 18:24:27	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	25.15	0.0000 (ppm)	-649.2250
3/15/2018 18:24:27	Interference Check Solution A	Ca (227.547 nm)	266.2585 o (ppm)	0.29	266.2585 (ppm)	12568.7804
3/15/2018 18:24:27	Interference Check Solution A	Cd (214.439 nm)	-0.0009 u (ppm)	25.75	-0.0009 (ppm)	-1.1602
3/15/2018 18:24:27	Interference Check Solution A	Co (230.786 nm)	-0.0018 u (ppm)	10.12	-0.0018 (ppm)	-20.7211
3/15/2018 18:24:27	Interference Check Solution A	Cr (267.716 nm)	0.0003 (ppm)	67.50	0.0003 (ppm)	7.0078
3/15/2018 18:24:27	Interference Check Solution A	Cu (327.395 nm)	0.0009 (ppm)	36.45	0.0009 (ppm)	51.4465
3/15/2018 18:24:27	Interference Check Solution A	Fe (234.350 nm)	93.3396 o (ppm)	0.19	93.3396 (ppm)	913270.7383
3/15/2018 18:24:27	Interference Check Solution A	K (766.491 nm)	0.0116 (ppm)	32.32	0.0116 (ppm)	23.2691
3/15/2018 18:24:27	Interference Check Solution A	Mg (279.078 nm)	265.5317 o (ppm)	0.29	265.5317 (ppm)	489267.4742
3/15/2018 18:24:27	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	1.49	0.0016 (ppm)	453.6831
3/15/2018 18:24:27	Interference Check Solution A	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.2479
3/15/2018 18:24:27	Interference Check Solution A	Na (588.995 nm)	-0.0217 u (ppm)	9.66	-0.0217 (ppm)	-9229.6389
3/15/2018 18:24:27	Interference Check Solution A	Ni (230.299 nm)	-0.0026 u (ppm)	13.01	-0.0026 (ppm)	-39.3216
3/15/2018 18:24:27	Interference Check Solution A	Pb (220.353 nm)	-0.0042 u (ppm)	40.57	-0.0042 (ppm)	-2.4877
3/15/2018 18:24:27	Interference Check Solution A	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	1.3196
3/15/2018 18:24:27	Interference Check Solution A	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	2.3620
3/15/2018 18:24:27	Interference Check Solution A	Sn (189.925 nm)	0.0013 (ppm)	77.16	0.0013 (ppm)	0.7141
3/15/2018 18:24:27	Interference Check Solution A	Sr (216.596 nm)	0.0192 (ppm)	0.29	0.0192 (ppm)	244.6499
3/15/2018 18:24:27	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	0.66	0.0018 (ppm)	-329.4039
3/15/2018 18:24:27	Interference Check Solution A	Tl (351.923 nm)	-0.0034 u (ppm)	> 100.00	-0.0034 (ppm)	17.3950
3/15/2018 18:24:27	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	11.02	0.0035 (ppm)	239.9868 K
3/15/2018 18:24:27	Interference Check Solution A	Y (360.074 nm)	0.91 (Ratio)	0.72	0.91 (Ratio)	680688.45
3/15/2018 18:24:27	Interference Check Solution A	Y_R (360.074 nm)	0.92 (Ratio)	0.72	0.92 (Ratio)	681000.82
3/15/2018 18:24:27	Interference Check Solution A	Zn (213.857 nm)	0.0105 K (ppm)	1.87	0.0105 (ppm)	268.4497 K
3/15/2018 18:27:47	Interference Check Solution AB	Ag (328.068 nm)	0.2142 (ppm)	0.11	0.2142 (ppm)	13096.3909
3/15/2018 18:27:47	Interference Check Solution AB	Al (394.401 nm)	264.5707 o (ppm)	0.13	264.5707 (ppm)	2795450.9531
3/15/2018 18:27:47	Interference Check Solution AB	As (188.980 nm)	0.1071 (ppm)	3.49	0.1071 (ppm)	88.8569
3/15/2018 18:27:47	Interference Check Solution AB	B (249.772 nm)	0.0429 (ppm)	0.39	0.0429 (ppm)	1223.1072
3/15/2018 18:27:47	Interference Check Solution AB	Ba (230.424 nm)	0.5252 (ppm)	0.02	0.5252 (ppm)	15297.8264
3/15/2018 18:27:47	Interference Check Solution AB	Be (313.107 nm)	0.5053 (ppm)	0.12	0.5053 (ppm)	665072.2424
3/15/2018 18:27:47	Interference Check Solution AB	Ca (227.547 nm)	265.3714 o (ppm)	0.24	265.3714 (ppm)	12526.9266
3/15/2018 18:27:47	Interference Check Solution AB	Cd (214.439 nm)	0.9738 (ppm)	0.15	0.9738 (ppm)	20149.3528
3/15/2018 18:27:47	Interference Check Solution AB	Co (230.786 nm)	0.4962 (ppm)	0.43	0.4962 (ppm)	4584.5591
3/15/2018 18:27:47	Interference Check Solution AB	Cr (267.716 nm)	0.5093 (ppm)	0.08	0.5093 (ppm)	21785.2923
3/15/2018 18:27:47	Interference Check Solution AB	Cu (327.395 nm)	0.5367 (ppm)	0.24	0.5367 (ppm)	27049.4369
3/15/2018 18:27:47	Interference Check Solution AB	Fe (234.350 nm)	93.5959 o (ppm)	0.20	93.5959 (ppm)	915778.2093
3/15/2018 18:27:47	Interference Check Solution AB	K (766.491 nm)	0.0185 (ppm)	48.94	0.0185 (ppm)	39.7727
3/15/2018 18:27:47	Interference Check Solution AB	Mg (279.078 nm)	265.3916 o (ppm)	0.11	265.3916 (ppm)	489009.2712
3/15/2018 18:27:47	Interference Check Solution AB	Mn (257.610 nm)	0.5048 (ppm)	0.09	0.5048 (ppm)	138467.8554
3/15/2018 18:27:47	Interference Check Solution AB	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	3.8568
3/15/2018 18:27:47	Interference Check Solution AB	Na (588.995 nm)	-0.0174 u (ppm)	5.00	-0.0174 (ppm)	-9080.8623
3/15/2018 18:27:47	Interference Check Solution AB	Ni (230.299 nm)	0.9774 (ppm)	0.16	0.9774 (ppm)	6123.5895

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:27:47	Interference Check Solution AB	Pb (220.353 nm)	0.0463 (ppm)	4.94	0.0463 (ppm)	100.2030
3/15/2018 18:27:47	Interference Check Solution AB	Sb (217.582 nm)	0.6203 (ppm)	0.16	0.6203 (ppm)	791.2876
3/15/2018 18:27:47	Interference Check Solution AB	Se (196.026 nm)	0.0538 (ppm)	4.51	0.0538 (ppm)	43.5364
3/15/2018 18:27:47	Interference Check Solution AB	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	0.3917
3/15/2018 18:27:47	Interference Check Solution AB	Sr (216.596 nm)	0.0194 (ppm)	1.15	0.0194 (ppm)	247.4911
3/15/2018 18:27:47	Interference Check Solution AB	Ti (336.122 nm)	0.0017 (ppm)	4.46	0.0017 (ppm)	-341.1616
3/15/2018 18:27:47	Interference Check Solution AB	Tl (351.923 nm)	0.1159 (ppm)	4.48	0.1159 (ppm)	277.4977
3/15/2018 18:27:47	Interference Check Solution AB	V (292.401 nm)	0.5070 (ppm)	0.05	0.5070 (ppm)	15681.7072
3/15/2018 18:27:47	Interference Check Solution AB	Y (360.074 nm)	0.92 (Ratio)	0.61	0.92 (Ratio)	682156.85
3/15/2018 18:27:47	Interference Check Solution AB	Y_R (360.074 nm)	0.92 (Ratio)	0.61	0.92 (Ratio)	682460.09
3/15/2018 18:27:47	Interference Check Solution AB	Zn (213.857 nm)	0.9858 (ppm)	0.16	0.9858 (ppm)	27736.1746
3/15/2018 18:31:08	HLCCV2	Ag (328.068 nm)	2.1426 o (ppm)	0.22	2.1426 (ppm)	131875.9923
3/15/2018 18:31:08	HLCCV2	Al (394.401 nm)	548.3725 o (ppm)	0.34	548.3725 (ppm)	5793977.1000
3/15/2018 18:31:08	HLCCV2	As (188.980 nm)	4.0484 o (ppm)	0.26	4.0484 (ppm)	3517.2747
3/15/2018 18:31:08	HLCCV2	B (249.772 nm)	10.3685 o (ppm)	0.31	10.3685 (ppm)	277301.5205
3/15/2018 18:31:08	HLCCV2	Ba (230.424 nm)	38.5253 o (ppm)	0.41	38.5253 (ppm)	1121625.8292
3/15/2018 18:31:08	HLCCV2	Be (313.107 nm)	0.9710 o (ppm)	0.39	0.9710 (ppm)	1278587.8387
3/15/2018 18:31:08	HLCCV2	Ca (227.547 nm)	277.3586 Qo (ppm)	0.32	277.3586 (ppm)	13092.5016 Q
3/15/2018 18:31:08	HLCCV2	Cd (214.439 nm)	1.8654 o (ppm)	0.25	1.8654 (ppm)	38584.1901
3/15/2018 18:31:08	HLCCV2	Co (230.786 nm)	9.3191 o (ppm)	0.46	9.3191 (ppm)	86163.2674
3/15/2018 18:31:08	HLCCV2	Cr (267.716 nm)	9.7982 o (ppm)	0.25	9.7982 (ppm)	419223.5747
3/15/2018 18:31:08	HLCCV2	Cu (327.395 nm)	5.5659 Qo (ppm)	0.38	5.5659 (ppm)	280455.5809 Q
3/15/2018 18:31:08	HLCCV2	Fe (234.350 nm)	47.5530 o (ppm)	0.29	47.5530 (ppm)	465285.5480
3/15/2018 18:31:08	HLCCV2	K (766.491 nm)	165.0544 Qo (ppm)	0.56	165.0544 (ppm)	394654.9234 Q
3/15/2018 18:31:08	HLCCV2	Mg (279.078 nm)	520.9155 o (ppm)	0.34	520.9155 (ppm)	959841.7526
3/15/2018 18:31:08	HLCCV2	Mn (257.610 nm)	9.5535 o (ppm)	0.46	9.5535 (ppm)	2620578.0555
3/15/2018 18:31:08	HLCCV2	Mo (202.032 nm)	9.7202 o (ppm)	0.29	9.7202 (ppm)	86459.0050
3/15/2018 18:31:08	HLCCV2	Na (588.995 nm)	155.1368 o (ppm)	0.61	155.1368 (ppm)	5401970.3541
3/15/2018 18:31:08	HLCCV2	Ni (230.299 nm)	7.4793 o (ppm)	0.29	7.4793 (ppm)	47011.6040
3/15/2018 18:31:08	HLCCV2	Pb (220.353 nm)	9.7775 o (ppm)	0.31	9.7775 (ppm)	19864.3074
3/15/2018 18:31:08	HLCCV2	Sb (217.582 nm)	0.0353 (ppm)	4.48	0.0353 (ppm)	44.8190
3/15/2018 18:31:08	HLCCV2	Se (196.026 nm)	2.0056 o (ppm)	0.76	2.0056 (ppm)	1520.5547
3/15/2018 18:31:08	HLCCV2	Sn (189.925 nm)	-0.0156 u (ppm)	3.74	-0.0156 (ppm)	-18.4107
3/15/2018 18:31:08	HLCCV2	Sr (216.596 nm)	9.5561 o (ppm)	0.51	9.5561 (ppm)	123488.4985
3/15/2018 18:31:08	HLCCV2	Ti (336.122 nm)	9.9323 o (ppm)	0.36	9.9323 (ppm)	1710046.3301
3/15/2018 18:31:08	HLCCV2	Tl (351.923 nm)	4.5549 Qo (ppm)	0.43	4.5549 (ppm)	9958.1889 Q
3/15/2018 18:31:08	HLCCV2	V (292.401 nm)	9.7913 o (ppm)	0.26	9.7913 (ppm)	300415.1069
3/15/2018 18:31:08	HLCCV2	Y (360.074 nm)	0.88 (Ratio)	0.73	0.88 (Ratio)	653878.52
3/15/2018 18:31:08	HLCCV2	Y_R (360.074 nm)	0.88 (Ratio)	0.73	0.88 (Ratio)	654208.01
3/15/2018 18:31:08	HLCCV2	Zn (213.857 nm)	3.8731 o (ppm)	0.18	3.8731 (ppm)	109050.7589
3/15/2018 18:34:29	HLCCV3	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-94.4623
3/15/2018 18:34:29	HLCCV3	Al (394.401 nm)	0.1213 (ppm)	37.56	0.1213 (ppm)	1393.9338
3/15/2018 18:34:29	HLCCV3	As (188.980 nm)	0.0069 (ppm)	35.77	0.0069 (ppm)	1.6694
3/15/2018 18:34:29	HLCCV3	B (249.772 nm)	0.0267 (ppm)	1.63	0.0267 (ppm)	788.7319
3/15/2018 18:34:29	HLCCV3	Ba (230.424 nm)	0.0066 (ppm)	38.07	0.0066 (ppm)	198.1581
3/15/2018 18:34:29	HLCCV3	Be (313.107 nm)	0.0002 (ppm)	45.73	0.0002 (ppm)	-339.0674
3/15/2018 18:34:29	HLCCV3	Ca (227.547 nm)	199.5001 o (ppm)	0.05	199.5001 (ppm)	9419.0108
3/15/2018 18:34:29	HLCCV3	Cd (214.439 nm)	0.0011 (ppm)	11.59	0.0011 (ppm)	40.2576
3/15/2018 18:34:29	HLCCV3	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.5795
3/15/2018 18:34:29	HLCCV3	Cr (267.716 nm)	0.0016 (ppm)	53.24	0.0016 (ppm)	64.4742
3/15/2018 18:34:29	HLCCV3	Cu (327.395 nm)	4.0695 o (ppm)	0.68	4.0695 (ppm)	205060.3481

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:34:29	HLCCV3	Fe (234.350 nm)	38.4999 o (ppm)	0.15	38.4999 (ppm)	376708.9166
3/15/2018 18:34:29	HLCCV3	K (766.491 nm)	97.8751 o (ppm)	0.30	97.8751 (ppm)	234023.2940
3/15/2018 18:34:29	HLCCV3	Mg (279.078 nm)	0.0888 (ppm)	49.07	0.0888 (ppm)	158.2289
3/15/2018 18:34:29	HLCCV3	Mn (257.610 nm)	0.0017 (ppm)	38.05	0.0017 (ppm)	481.2072
3/15/2018 18:34:29	HLCCV3	Mo (202.032 nm)	0.0071 (ppm)	6.69	0.0071 (ppm)	68.2676
3/15/2018 18:34:29	HLCCV3	Na (588.995 nm)	0.0246 (ppm)	40.38	0.0246 (ppm)	-7615.6723
3/15/2018 18:34:29	HLCCV3	Ni (230.299 nm)	-0.0258 u (ppm)	3.26	-0.0258 (ppm)	-185.4097
3/15/2018 18:34:29	HLCCV3	Pb (220.353 nm)	0.0013 (ppm)	90.34	0.0013 (ppm)	8.7313
3/15/2018 18:34:29	HLCCV3	Sb (217.582 nm)	0.0056 (ppm)	27.08	0.0056 (ppm)	6.9624
3/15/2018 18:34:29	HLCCV3	Se (196.026 nm)	0.0053 u (ppm)	> 100.00	0.0053 (ppm)	6.8280
3/15/2018 18:34:29	HLCCV3	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.9577
3/15/2018 18:34:29	HLCCV3	Sr (216.596 nm)	0.0068 (ppm)	12.01	0.0068 (ppm)	84.5402
3/15/2018 18:34:29	HLCCV3	Ti (336.122 nm)	0.0048 (ppm)	16.38	0.0048 (ppm)	182.3674
3/15/2018 18:34:29	HLCCV3	Tl (351.923 nm)	2.9264 o (ppm)	0.10	2.9264 (ppm)	6406.6366
3/15/2018 18:34:29	HLCCV3	V (292.401 nm)	0.0029 (ppm)	20.79	0.0029 (ppm)	222.6837
3/15/2018 18:34:29	HLCCV3	Y (360.074 nm)	0.97 (Ratio)	0.59	0.97 (Ratio)	720275.94
3/15/2018 18:34:29	HLCCV3	Y_R (360.074 nm)	0.97 (Ratio)	0.59	0.97 (Ratio)	720549.98
3/15/2018 18:34:29	HLCCV3	Zn (213.857 nm)	0.0078 (ppm)	5.55	0.0078 (ppm)	192.9817
3/15/2018 18:37:49	HLCCV1	Ag (328.068 nm)	1.0184 (ppm)	2.47	1.0184 (ppm)	62633.1469
3/15/2018 18:37:49	HLCCV1	Al (394.401 nm)	20.3883 (ppm)	2.38	20.3883 (ppm)	215526.4838
3/15/2018 18:37:49	HLCCV1	As (188.980 nm)	2.0497 (ppm)	2.53	2.0497 (ppm)	1778.6516
3/15/2018 18:37:49	HLCCV1	B (249.772 nm)	5.0745 (ppm)	2.54	5.0745 (ppm)	135754.4124
3/15/2018 18:37:49	HLCCV1	Ba (230.424 nm)	20.2618 (ppm)	2.01	20.2618 (ppm)	589903.4187
3/15/2018 18:37:49	HLCCV1	Be (313.107 nm)	0.5103 (ppm)	2.68	0.5103 (ppm)	671681.2772
3/15/2018 18:37:49	HLCCV1	Ca (227.547 nm)	50.8361 (ppm)	2.65	50.8361 (ppm)	2404.7932
3/15/2018 18:37:49	HLCCV1	Cd (214.439 nm)	1.0161 (ppm)	2.67	1.0161 (ppm)	21024.1878
3/15/2018 18:37:49	HLCCV1	Co (230.786 nm)	5.0916 (ppm)	2.63	5.0916 (ppm)	47075.0089
3/15/2018 18:37:49	HLCCV1	Cr (267.716 nm)	1.0186 (ppm)	2.49	1.0186 (ppm)	43577.4605
3/15/2018 18:37:49	HLCCV1	Cu (327.395 nm)	2.5342 (ppm)	2.81	2.5342 (ppm)	127701.2314
3/15/2018 18:37:49	HLCCV1	Fe (234.350 nm)	10.2168 (ppm)	2.42	10.2168 (ppm)	99981.4359
3/15/2018 18:37:49	HLCCV1	K (766.491 nm)	50.9417 (ppm)	2.57	50.9417 (ppm)	121801.4368
3/15/2018 18:37:49	HLCCV1	Mg (279.078 nm)	51.0777 (ppm)	2.54	51.0777 (ppm)	94111.2243
3/15/2018 18:37:49	HLCCV1	Mn (257.610 nm)	1.5300 (ppm)	2.47	1.5300 (ppm)	419698.1917
3/15/2018 18:37:49	HLCCV1	Mo (202.032 nm)	5.0983 (ppm)	2.47	5.0983 (ppm)	45350.8511
3/15/2018 18:37:49	HLCCV1	Na (588.995 nm)	51.3438 (ppm)	2.44	51.3438 (ppm)	1782156.8719
3/15/2018 18:37:49	HLCCV1	Ni (230.299 nm)	4.0973 (ppm)	2.69	4.0973 (ppm)	25743.4174
3/15/2018 18:37:49	HLCCV1	Pb (220.353 nm)	1.0197 (ppm)	2.66	1.0197 (ppm)	2077.2019
3/15/2018 18:37:49	HLCCV1	Sb (217.582 nm)	10.2134 (ppm)	2.64	10.2134 (ppm)	13032.0435
3/15/2018 18:37:49	HLCCV1	Se (196.026 nm)	1.0133 (ppm)	2.99	1.0133 (ppm)	769.6500
3/15/2018 18:37:49	HLCCV1	Sn (189.925 nm)	10.1288 (ppm)	2.37	10.1288 (ppm)	11465.6088
3/15/2018 18:37:49	HLCCV1	Sr (216.596 nm)	5.1053 (ppm)	2.46	5.1053 (ppm)	65971.2983
3/15/2018 18:37:49	HLCCV1	Ti (336.122 nm)	5.0755 (ppm)	2.58	5.0755 (ppm)	873538.1576
3/15/2018 18:37:49	HLCCV1	Tl (351.923 nm)	2.0500 (ppm)	2.62	2.0500 (ppm)	4495.5248
3/15/2018 18:37:49	HLCCV1	V (292.401 nm)	5.1035 (ppm)	2.46	5.1035 (ppm)	156650.9810
3/15/2018 18:37:49	HLCCV1	Y (360.074 nm)	0.94 (Ratio)	2.98	0.94 (Ratio)	698937.56
3/15/2018 18:37:49	HLCCV1	Y_R (360.074 nm)	0.94 (Ratio)	2.98	0.94 (Ratio)	699205.19
3/15/2018 18:37:49	HLCCV1	Zn (213.857 nm)	2.0413 (ppm)	2.47	2.0413 (ppm)	57461.0331
3/15/2018 18:41:09	Continuing Calibration Verification	Ag (328.068 nm)	0.4810 (ppm)	0.26	0.4810 (ppm)	29527.7087
3/15/2018 18:41:09	Continuing Calibration Verification	Al (394.401 nm)	9.5639 (ppm)	0.46	9.5639 (ppm)	101160.6120
3/15/2018 18:41:09	Continuing Calibration Verification	As (188.980 nm)	0.9967 (ppm)	0.82	0.9967 (ppm)	862.6689
3/15/2018 18:41:09	Continuing Calibration Verification	B (249.772 nm)	2.4466 (ppm)	0.33	2.4466 (ppm)	65490.6764



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:41:09	Continuing Calibration Verification	Ba (230.424 nm)	10.2713 (ppm)	0.43	10.2713 (ppm)	299043.7550
3/15/2018 18:41:09	Continuing Calibration Verification	Be (313.107 nm)	0.2516 (ppm)	0.28	0.2516 (ppm)	330910.2090
3/15/2018 18:41:09	Continuing Calibration Verification	Ca (227.547 nm)	23.9250 (ppm)	0.25	23.9250 (ppm)	1135.0844
3/15/2018 18:41:09	Continuing Calibration Verification	Cd (214.439 nm)	0.5101 (ppm)	0.31	0.5101 (ppm)	10563.3785
3/15/2018 18:41:09	Continuing Calibration Verification	Co (230.786 nm)	2.5656 (ppm)	0.36	2.5656 (ppm)	23718.6266
3/15/2018 18:41:09	Continuing Calibration Verification	Cr (267.716 nm)	0.5196 (ppm)	0.31	0.5196 (ppm)	22228.9438
3/15/2018 18:41:09	Continuing Calibration Verification	Cu (327.395 nm)	1.2083 (ppm)	0.43	1.2083 (ppm)	60889.8545
3/15/2018 18:41:09	Continuing Calibration Verification	Fe (234.350 nm)	5.0227 (ppm)	0.29	5.0227 (ppm)	49161.0805
3/15/2018 18:41:09	Continuing Calibration Verification	K (766.491 nm)	24.4759 (ppm)	0.66	24.4759 (ppm)	58519.5055
3/15/2018 18:41:09	Continuing Calibration Verification	Mg (279.078 nm)	24.8984 (ppm)	0.31	24.8984 (ppm)	45872.7882
3/15/2018 18:41:09	Continuing Calibration Verification	Mn (257.610 nm)	0.7664 (ppm)	0.32	0.7664 (ppm)	210230.8953
3/15/2018 18:41:09	Continuing Calibration Verification	Mo (202.032 nm)	2.4921 (ppm)	0.30	2.4921 (ppm)	22170.7660
3/15/2018 18:41:09	Continuing Calibration Verification	Na (588.995 nm)	24.7892 (ppm)	0.83	24.7892 (ppm)	856058.6007
3/15/2018 18:41:09	Continuing Calibration Verification	Ni (230.299 nm)	2.0644 (ppm)	0.16	2.0644 (ppm)	12959.3722
3/15/2018 18:41:09	Continuing Calibration Verification	Pb (220.353 nm)	0.5083 (ppm)	0.66	0.5083 (ppm)	1038.4874
3/15/2018 18:41:09	Continuing Calibration Verification	Sb (217.582 nm)	5.1119 (ppm)	0.45	5.1119 (ppm)	6522.6213
3/15/2018 18:41:09	Continuing Calibration Verification	Se (196.026 nm)	0.5052 (ppm)	0.53	0.5052 (ppm)	385.1163
3/15/2018 18:41:09	Continuing Calibration Verification	Sn (189.925 nm)	5.1013 (ppm)	0.49	5.1013 (ppm)	5774.1905
3/15/2018 18:41:09	Continuing Calibration Verification	Sr (216.596 nm)	2.5223 (ppm)	0.40	2.5223 (ppm)	32592.4398
3/15/2018 18:41:09	Continuing Calibration Verification	Ti (336.122 nm)	2.4823 (ppm)	0.34	2.4823 (ppm)	426889.9189
3/15/2018 18:41:09	Continuing Calibration Verification	Ti (351.923 nm)	1.0080 (ppm)	0.64	1.0080 (ppm)	2223.0415
3/15/2018 18:41:09	Continuing Calibration Verification	V (292.401 nm)	2.5086 (ppm)	0.39	2.5086 (ppm)	77069.1791
3/15/2018 18:41:09	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.67	0.98 (Ratio)	731271.12
3/15/2018 18:41:09	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.67	0.98 (Ratio)	731509.35
3/15/2018 18:41:09	Continuing Calibration Verification	Zn (213.857 nm)	0.9686 (ppm)	0.33	0.9686 (ppm)	27252.2493
3/15/2018 18:44:27	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-103.1898
3/15/2018 18:44:27	Continuing Calibration Blank	Al (394.401 nm)	0.0042 (ppm)	21.02	0.0042 (ppm)	156.6535
3/15/2018 18:44:27	Continuing Calibration Blank	As (188.980 nm)	0.0038 (ppm)	21.56	0.0038 (ppm)	-1.0186
3/15/2018 18:44:27	Continuing Calibration Blank	B (249.772 nm)	0.0035 (ppm)	13.28	0.0035 (ppm)	170.0462
3/15/2018 18:44:27	Continuing Calibration Blank	Ba (230.424 nm)	0.0034 (ppm)	14.23	0.0034 (ppm)	106.4717
3/15/2018 18:44:27	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	13.69	0.0001 (ppm)	-474.8854
3/15/2018 18:44:27	Continuing Calibration Blank	Ca (227.547 nm)	-0.0196 u (ppm)	> 100.00	-0.0196 (ppm)	5.3359
3/15/2018 18:44:27	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	34.76	0.0002 (ppm)	21.3628
3/15/2018 18:44:27	Continuing Calibration Blank	Co (230.786 nm)	0.0008 (ppm)	40.51	0.0008 (ppm)	3.2915
3/15/2018 18:44:27	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 (ppm)	53.66	0.0001 (ppm)	1.9601
3/15/2018 18:44:27	Continuing Calibration Blank	Cu (327.395 nm)	0.0006 (ppm)	11.41	0.0006 (ppm)	38.4939
3/15/2018 18:44:27	Continuing Calibration Blank	Fe (234.350 nm)	0.0028 (ppm)	17.62	0.0028 (ppm)	45.9260
3/15/2018 18:44:27	Continuing Calibration Blank	K (766.491 nm)	0.0571 (ppm)	18.90	0.0571 (ppm)	131.9281
3/15/2018 18:44:27	Continuing Calibration Blank	Mg (279.078 nm)	0.0075 (ppm)	8.11	0.0075 (ppm)	8.3919
3/15/2018 18:44:27	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	12.04	0.0003 (ppm)	84.9393
3/15/2018 18:44:27	Continuing Calibration Blank	Mo (202.032 nm)	0.0031 (ppm)	2.30	0.0031 (ppm)	32.5574
3/15/2018 18:44:27	Continuing Calibration Blank	Na (588.995 nm)	0.0077 (ppm)	21.00	0.0077 (ppm)	-8205.4389
3/15/2018 18:44:27	Continuing Calibration Blank	Ni (230.299 nm)	0.0012 (ppm)	27.36	0.0012 (ppm)	-15.5314
3/15/2018 18:44:27	Continuing Calibration Blank	Pb (220.353 nm)	-0.0014 u (ppm)	90.55	-0.0014 (ppm)	3.3401
3/15/2018 18:44:27	Continuing Calibration Blank	Sb (217.582 nm)	0.0059 (ppm)	37.11	0.0059 (ppm)	7.3501
3/15/2018 18:44:27	Continuing Calibration Blank	Se (196.026 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	4.5635
3/15/2018 18:44:27	Continuing Calibration Blank	Sn (189.925 nm)	0.0035 (ppm)	37.58	0.0035 (ppm)	3.2259
3/15/2018 18:44:27	Continuing Calibration Blank	Sr (216.596 nm)	0.0008 (ppm)	37.92	0.0008 (ppm)	7.3748
3/15/2018 18:44:27	Continuing Calibration Blank	Ti (336.122 nm)	0.0019 (ppm)	2.29	0.0019 (ppm)	-315.2218
3/15/2018 18:44:27	Continuing Calibration Blank	Ti (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	21.9004
3/15/2018 18:44:27	Continuing Calibration Blank	V (292.401 nm)	0.0011 (ppm)	8.85	0.0011 (ppm)	167.2218

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:44:27	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.70	1.01 (Ratio)	751168.45
3/15/2018 18:44:27	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.70	1.01 (Ratio)	751349.16
3/15/2018 18:44:27	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	40.93	0.0004 (ppm)	-14.9131
3/15/2018 18:47:46	PBW-309876	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-106.0809
3/15/2018 18:47:46	PBW-309876	Al (394.401 nm)	0.0020 (ppm)	64.04	0.0020 (ppm)	133.5610
3/15/2018 18:47:46	PBW-309876	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-3.5586
3/15/2018 18:47:46	PBW-309876	B (249.772 nm)	0.0021 (ppm)	10.48	0.0021 (ppm)	132.9558
3/15/2018 18:47:46	PBW-309876	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.2399
3/15/2018 18:47:46	PBW-309876	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-574.2329
3/15/2018 18:47:46	PBW-309876	Cb (227.547 nm)	-0.0583 u (ppm)	77.40	-0.0583 (ppm)	3.5111
3/15/2018 18:47:46	PBW-309876	Cd (214.439 nm)	-0.0002 u (ppm)	42.32	-0.0002 (ppm)	12.8860
3/15/2018 18:47:46	PBW-309876	Co (230.786 nm)	-0.0002 u (ppm)	93.17	-0.0002 (ppm)	-5.3916
3/15/2018 18:47:46	PBW-309876	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	0.8276
3/15/2018 18:47:46	PBW-309876	Cu (327.395 nm)	0.0002 (ppm)	21.62	0.0002 (ppm)	17.3094
3/15/2018 18:47:46	PBW-309876	Fe (234.350 nm)	0.0008 (ppm)	62.21	0.0008 (ppm)	26.0294
3/15/2018 18:47:46	PBW-309876	K (766.491 nm)	0.0163 (ppm)	61.33	0.0163 (ppm)	34.4908
3/15/2018 18:47:46	PBW-309876	Mg (279.078 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-2.3840
3/15/2018 18:47:46	PBW-309876	Mn (257.610 nm)	0.0001 (ppm)	39.97	0.0001 (ppm)	28.7808
3/15/2018 18:47:46	PBW-309876	Mo (202.032 nm)	0.0005 (ppm)	42.81	0.0005 (ppm)	9.7032
3/15/2018 18:47:46	PBW-309876	Na (588.995 nm)	0.0028 (ppm)	17.56	0.0028 (ppm)	-8376.5968
3/15/2018 18:47:46	PBW-309876	Ni (230.299 nm)	0.0010 (ppm)	31.36	0.0010 (ppm)	-16.5544
3/15/2018 18:47:46	PBW-309876	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.2554
3/15/2018 18:47:46	PBW-309876	Sb (217.582 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	0.8004
3/15/2018 18:47:46	PBW-309876	Se (196.026 nm)	0.0040 (ppm)	87.36	0.0040 (ppm)	5.8480
3/15/2018 18:47:46	PBW-309876	Sn (189.925 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	0.1414
3/15/2018 18:47:46	PBW-309876	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.6179
3/15/2018 18:47:46	PBW-309876	Ti (336.122 nm)	0.0009 (ppm)	16.10	0.0009 (ppm)	-476.3712
3/15/2018 18:47:46	PBW-309876	Tl (351.923 nm)	-0.0057 u (ppm)	61.95	-0.0057 (ppm)	12.3652
3/15/2018 18:47:46	PBW-309876	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	130.8624
3/15/2018 18:47:46	PBW-309876	Y (360.074 nm)	1.02 (Ratio)	0.80	1.02 (Ratio)	761626.58
3/15/2018 18:47:46	PBW-309876	Y_R (360.074 nm)	1.02 (Ratio)	0.80	1.02 (Ratio)	761837.10
3/15/2018 18:47:46	PBW-309876	Zn (213.857 nm)	0.0011 (ppm)	8.86	0.0011 (ppm)	2.7256
3/15/2018 18:51:05	LCSW-309876	Ag (328.068 nm)	0.0489 (ppm)	0.49	0.0489 (ppm)	2917.7788
3/15/2018 18:51:05	LCSW-309876	Al (394.401 nm)	1.8271 (ppm)	0.48	1.8271 (ppm)	19416.8637
3/15/2018 18:51:05	LCSW-309876	As (188.980 nm)	0.0442 (ppm)	3.04	0.0442 (ppm)	34.1304
3/15/2018 18:51:05	LCSW-309876	B (249.772 nm)	0.9611 (ppm)	0.49	0.9611 (ppm)	25774.0288
3/15/2018 18:51:05	LCSW-309876	Ba (230.424 nm)	2.0579 (ppm)	0.15	2.0579 (ppm)	59919.4560
3/15/2018 18:51:05	LCSW-309876	Be (313.107 nm)	0.0490 (ppm)	0.46	0.0490 (ppm)	63977.2556
3/15/2018 18:51:05	LCSW-309876	Cb (227.547 nm)	1.7493 (ppm)	3.33	1.7493 (ppm)	88.7956
3/15/2018 18:51:05	LCSW-309876	Cd (214.439 nm)	0.0516 (ppm)	0.46	0.0516 (ppm)	1083.5495
3/15/2018 18:51:05	LCSW-309876	Co (230.786 nm)	0.5137 (ppm)	0.56	0.5137 (ppm)	4746.0425
3/15/2018 18:51:05	LCSW-309876	Cr (267.716 nm)	0.2034 (ppm)	0.37	0.2034 (ppm)	8696.7337
3/15/2018 18:51:05	LCSW-309876	Cu (327.395 nm)	0.2421 (ppm)	0.85	0.2421 (ppm)	12208.9801
3/15/2018 18:51:05	LCSW-309876	Fe (234.350 nm)	0.9980 (ppm)	0.42	0.9980 (ppm)	9783.4144
3/15/2018 18:51:05	LCSW-309876	K (766.491 nm)	19.0129 (ppm)	0.71	19.0129 (ppm)	45456.9188
3/15/2018 18:51:05	LCSW-309876	Mg (279.078 nm)	1.9480 (ppm)	0.44	1.9480 (ppm)	3583.9132
3/15/2018 18:51:05	LCSW-309876	Mn (257.610 nm)	0.5007 (ppm)	0.40	0.5007 (ppm)	13735.13617
3/15/2018 18:51:05	LCSW-309876	Mo (202.032 nm)	0.4890 (ppm)	0.50	0.4890 (ppm)	4354.2876
3/15/2018 18:51:05	LCSW-309876	Na (588.995 nm)	19.3656 (ppm)	0.69	19.3656 (ppm)	666908.9541
3/15/2018 18:51:05	LCSW-309876	Ni (230.299 nm)	0.5032 (ppm)	0.41	0.5032 (ppm)	3141.6159
3/15/2018 18:51:05	LCSW-309876	Pb (220.353 nm)	0.5086 (ppm)	1.25	0.5086 (ppm)	1039.0607

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:51:05	LCSW-309876	Sb (217.582 nm)	0.4742 (ppm)	1.14	0.4742 (ppm)	604.8591
3/15/2018 18:51:05	LCSW-309876	Se (196.026 nm)	1.0443 (ppm)	0.41	1.0443 (ppm)	793.1027
3/15/2018 18:51:05	LCSW-309876	Sn (189.925 nm)	4.9822 (ppm)	0.51	4.9822 (ppm)	5639.3357
3/15/2018 18:51:05	LCSW-309876	Sr (216.596 nm)	2.0300 (ppm)	0.43	2.0300 (ppm)	26230.4711
3/15/2018 18:51:05	LCSW-309876	Ti (336.122 nm)	0.4870 (ppm)	0.50	0.4870 (ppm)	83243.4954
3/15/2018 18:51:05	LCSW-309876	Tl (351.923 nm)	1.8501 (ppm)	0.76	1.8501 (ppm)	4059.6257
3/15/2018 18:51:05	LCSW-309876	V (292.401 nm)	0.4882 (ppm)	0.44	0.4882 (ppm)	15105.9067
3/15/2018 18:51:05	LCSW-309876	Y (360.074 nm)	1.01 (Ratio)	0.83	1.01 (Ratio)	751215.64
3/15/2018 18:51:05	LCSW-309876	Y_R (360.074 nm)	1.01 (Ratio)	0.83	1.01 (Ratio)	751491.82
3/15/2018 18:51:05	LCSW-309876	Zn (213.857 nm)	0.4804 (ppm)	0.37	0.4804 (ppm)	13501.5876
3/15/2018 18:54:24	R1801868-001	Ag (328.068 nm)	-0.0002 u (ppm)	43.83	-0.0002 (ppm)	-110.2266
3/15/2018 18:54:24	R1801868-001	Al (394.401 nm)	0.2715 (ppm)	1.25	0.2715 (ppm)	2880.4791
3/15/2018 18:54:24	R1801868-001	As (188.980 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	-1.8090
3/15/2018 18:54:24	R1801868-001	B (249.772 nm)	0.0482 (ppm)	0.42	0.0482 (ppm)	1365.0260
3/15/2018 18:54:24	R1801868-001	Ba (230.424 nm)	0.3074 (ppm)	0.89	0.3074 (ppm)	8957.2387
3/15/2018 18:54:24	R1801868-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-582.6979
3/15/2018 18:54:24	R1801868-001	Ca (227.547 nm)	1184.7573 o (ppm)	0.30	1184.7573 (ppm)	55905.0810
3/15/2018 18:54:24	R1801868-001	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.5548
3/15/2018 18:54:24	R1801868-001	Co (230.786 nm)	0.0006 (ppm)	70.29	0.0006 (ppm)	1.6317
3/15/2018 18:54:24	R1801868-001	Cr (267.716 nm)	0.0011 (ppm)	6.38	0.0011 (ppm)	40.8520
3/15/2018 18:54:24	R1801868-001	Cu (327.395 nm)	0.0022 (ppm)	5.69	0.0022 (ppm)	121.5479
3/15/2018 18:54:24	R1801868-001	Fe (234.350 nm)	0.0222 (ppm)	0.67	0.0222 (ppm)	235.6640
3/15/2018 18:54:24	R1801868-001	K (766.491 nm)	65.4461 o (ppm)	0.21	65.4461 (ppm)	156482.7537
3/15/2018 18:54:24	R1801868-001	Mg (279.078 nm)	0.6022 (ppm)	0.65	0.6022 (ppm)	1104.2697
3/15/2018 18:54:24	R1801868-001	Mn (257.610 nm)	0.0014 (ppm)	5.43	0.0014 (ppm)	408.6198
3/15/2018 18:54:24	R1801868-001	Mo (202.032 nm)	0.0050 (ppm)	13.48	0.0050 (ppm)	49.9838
3/15/2018 18:54:24	R1801868-001	Na (588.995 nm)	536.4206 o (ppm)	0.25	536.4206 (ppm)	18699363.2099
3/15/2018 18:54:24	R1801868-001	Ni (230.299 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-27.5963
3/15/2018 18:54:24	R1801868-001	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.5668
3/15/2018 18:54:24	R1801868-001	Sb (217.582 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	3.1016
3/15/2018 18:54:24	R1801868-001	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	3.1942
3/15/2018 18:54:24	R1801868-001	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6401
3/15/2018 18:54:24	R1801868-001	Sr (216.596 nm)	6.7633 o (ppm)	1.93	6.7633 (ppm)	87397.5122
3/15/2018 18:54:24	R1801868-001	Ti (336.122 nm)	0.0087 (ppm)	1.93	0.0087 (ppm)	867.8573
3/15/2018 18:54:24	R1801868-001	Tl (351.923 nm)	0.0366 (ppm)	19.32	0.0366 (ppm)	104.6978
3/15/2018 18:54:24	R1801868-001	V (292.401 nm)	0.0033 (ppm)	10.86	0.0033 (ppm)	233.3554
3/15/2018 18:54:24	R1801868-001	Y (360.074 nm)	0.88 (Ratio)	0.86	0.88 (Ratio)	652842.90
3/15/2018 18:54:24	R1801868-001	Y_R (360.074 nm)	0.88 (Ratio)	0.86	0.88 (Ratio)	653267.02
3/15/2018 18:54:24	R1801868-001	Zn (213.857 nm)	0.0012 (ppm)	19.91	0.0012 (ppm)	6.1637
3/15/2018 18:57:41	R1801868-001S	Ag (328.068 nm)	0.0522 (ppm)	1.16	0.0522 (ppm)	3120.1142
3/15/2018 18:57:41	R1801868-001S	Al (394.401 nm)	2.5099 (ppm)	0.70	2.5099 (ppm)	26630.7412
3/15/2018 18:57:41	R1801868-001S	As (188.980 nm)	0.0397 (ppm)	13.37	0.0397 (ppm)	30.2212
3/15/2018 18:57:41	R1801868-001S	B (249.772 nm)	1.0398 (ppm)	0.88	1.0398 (ppm)	27876.5394
3/15/2018 18:57:41	R1801868-001S	Be (230.424 nm)	2.1767 (ppm)	0.79	2.1767 (ppm)	63377.6618
3/15/2018 18:57:41	R1801868-001S	Be (313.107 nm)	0.0444 (ppm)	0.63	0.0444 (ppm)	57878.8225
3/15/2018 18:57:41	R1801868-001S	Ca (227.547 nm)	1152.8429 o (ppm)	0.82	1152.8429 (ppm)	54399.3037
3/15/2018 18:57:41	R1801868-001S	Cd (214.439 nm)	0.0453 (ppm)	0.80	0.0453 (ppm)	953.0322
3/15/2018 18:57:41	R1801868-001S	Co (230.786 nm)	0.4627 (ppm)	0.58	0.4627 (ppm)	4274.6647
3/15/2018 18:57:41	R1801868-001S	Cr (267.716 nm)	0.1856 (ppm)	0.75	0.1856 (ppm)	7936.9975
3/15/2018 18:57:41	R1801868-001S	Cu (327.395 nm)	0.2637 (ppm)	0.51	0.2637 (ppm)	13297.0199
3/15/2018 18:57:41	R1801868-001S	Fe (234.350 nm)	0.9735 (ppm)	0.65	0.9735 (ppm)	9543.0490

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 18:57:41	R1801868-001S	K (766.491 nm)	85.0964 o (ppm)	0.66	85.0964 (ppm)	203468.4283
3/15/2018 18:57:41	R1801868-001S	Mg (279.078 nm)	2.4641 (ppm)	0.69	2.4641 (ppm)	4534.9852
3/15/2018 18:57:41	R1801868-001S	Mn (257.610 nm)	0.4664 (ppm)	0.72	0.4664 (ppm)	127936.2728
3/15/2018 18:57:41	R1801868-001S	Mo (202.032 nm)	0.4624 (ppm)	0.69	0.4624 (ppm)	4117.4676
3/15/2018 18:57:41	R1801868-001S	Na (588.995 nm)	534.5195 o (ppm)	0.70	534.5195 (ppm)	18633062.6551
3/15/2018 18:57:41	R1801868-001S	Ni (230.299 nm)	0.4499 (ppm)	1.26	0.4499 (ppm)	2806.3208
3/15/2018 18:57:41	R1801868-001S	Pb (220.353 nm)	0.4751 (ppm)	1.20	0.4751 (ppm)	971.0207
3/15/2018 18:57:41	R1801868-001S	Sb (217.582 nm)	0.4798 (ppm)	0.60	0.4798 (ppm)	612.0048
3/15/2018 18:57:41	R1801868-001S	Se (196.026 nm)	1.0566 (ppm)	0.65	1.0566 (ppm)	802.4165
3/15/2018 18:57:41	R1801868-001S	Sn (189.925 nm)	4.5650 (ppm)	0.60	4.5650 (ppm)	5167.0779
3/15/2018 18:57:41	R1801868-001S	Sr (216.596 nm)	8.3574 o (ppm)	1.58	8.3574 (ppm)	107997.5510
3/15/2018 18:57:41	R1801868-001S	Ti (336.122 nm)	0.4837 (ppm)	0.77	0.4837 (ppm)	82671.1640
3/15/2018 18:57:41	R1801868-001S	Tl (351.923 nm)	2.2317 o (ppm)	0.71	2.2317 (ppm)	4891.7979
3/15/2018 18:57:41	R1801868-001S	V (292.401 nm)	0.4699 (ppm)	0.73	0.4699 (ppm)	14544.0880
3/15/2018 18:57:41	R1801868-001S	Y (360.074 nm)	0.88 (Ratio)	0.59	0.88 (Ratio)	656350.80
3/15/2018 18:57:41	R1801868-001S	Y_R (360.074 nm)	0.88 (Ratio)	0.59	0.88 (Ratio)	656789.56
3/15/2018 18:57:41	R1801868-001S	Zn (213.857 nm)	0.4759 (ppm)	1.10	0.4759 (ppm)	13374.5954
3/15/2018 19:01:00	R1801868-001SD	Ag (328.068 nm)	0.0540 (ppm)	0.51	0.0540 (ppm)	3230.9118
3/15/2018 19:01:00	R1801868-001SD	Al (394.401 nm)	2.6484 (ppm)	0.15	2.6484 (ppm)	28094.4259
3/15/2018 19:01:00	R1801868-001SD	As (188.980 nm)	0.0431 (ppm)	12.96	0.0431 (ppm)	33.1623
3/15/2018 19:01:00	R1801868-001SD	B (249.772 nm)	1.0816 (ppm)	0.16	1.0816 (ppm)	28995.4532
3/15/2018 19:01:00	R1801868-001SD	Ba (230.424 nm)	2.2522 (ppm)	0.12	2.2522 (ppm)	65577.2112
3/15/2018 19:01:00	R1801868-001SD	Be (313.107 nm)	0.0462 (ppm)	0.23	0.0462 (ppm)	60217.6455
3/15/2018 19:01:00	R1801868-001SD	Ca (227.547 nm)	1206.1411 o (ppm)	0.26	1206.1411 (ppm)	56914.0028
3/15/2018 19:01:00	R1801868-001SD	Cd (214.439 nm)	0.0468 (ppm)	0.52	0.0468 (ppm)	985.4343
3/15/2018 19:01:00	R1801868-001SD	Co (230.786 nm)	0.4823 (ppm)	0.23	0.4823 (ppm)	4455.9107
3/15/2018 19:01:00	R1801868-001SD	Cr (267.716 nm)	0.1928 (ppm)	0.15	0.1928 (ppm)	8244.4704
3/15/2018 19:01:00	R1801868-001SD	Cu (327.395 nm)	0.2758 (ppm)	0.27	0.2758 (ppm)	13906.2425
3/15/2018 19:01:00	R1801868-001SD	Fe (234.350 nm)	1.0283 (ppm)	0.17	1.0283 (ppm)	10079.1909
3/15/2018 19:01:00	R1801868-001SD	K (766.491 nm)	89.0949 o (ppm)	0.43	89.0949 (ppm)	213029.2273
3/15/2018 19:01:00	R1801868-001SD	Mg (279.078 nm)	2.5731 (ppm)	0.17	2.5731 (ppm)	4735.7334
3/15/2018 19:01:00	R1801868-001SD	Mn (257.610 nm)	0.4850 (ppm)	0.14	0.4850 (ppm)	133041.9558
3/15/2018 19:01:00	R1801868-001SD	Mo (202.032 nm)	0.4811 (ppm)	0.25	0.4811 (ppm)	4283.9917
3/15/2018 19:01:00	R1801868-001SD	Na (588.995 nm)	555.3109 o (ppm)	0.43	555.3109 (ppm)	19358167.1060
3/15/2018 19:01:00	R1801868-001SD	Ni (230.299 nm)	0.4668 (ppm)	0.26	0.4668 (ppm)	2912.6061
3/15/2018 19:01:00	R1801868-001SD	Pb (220.353 nm)	0.4908 (ppm)	0.69	0.4908 (ppm)	1003.0174
3/15/2018 19:01:00	R1801868-001SD	Sb (217.582 nm)	0.4989 (ppm)	0.45	0.4989 (ppm)	636.4364
3/15/2018 19:01:00	R1801868-001SD	Se (196.026 nm)	1.1079 o (ppm)	1.44	1.1079 (ppm)	841.2196
3/15/2018 19:01:00	R1801868-001SD	Sn (189.925 nm)	4.7556 (ppm)	0.15	4.7556 (ppm)	5382.8195
3/15/2018 19:01:00	R1801868-001SD	Sr (216.596 nm)	8.6648 o (ppm)	0.36	8.6648 (ppm)	111969.9173
3/15/2018 19:01:00	R1801868-001SD	Ti (336.122 nm)	0.4993 (ppm)	0.12	0.4993 (ppm)	85364.1249
3/15/2018 19:01:00	R1801868-001SD	Tl (351.923 nm)	2.3194 o (ppm)	0.04	2.3194 (ppm)	5082.8981
3/15/2018 19:01:00	R1801868-001SD	V (292.401 nm)	0.4883 (ppm)	0.42	0.4883 (ppm)	15108.1578
3/15/2018 19:01:00	R1801868-001SD	Y (360.074 nm)	0.88 (Ratio)	0.53	0.88 (Ratio)	654050.77
3/15/2018 19:01:00	R1801868-001SD	Y_R (360.074 nm)	0.88 (Ratio)	0.53	0.88 (Ratio)	654491.51
3/15/2018 19:01:00	R1801868-001SD	Zn (213.857 nm)	0.4951 (ppm)	0.16	0.4951 (ppm)	13915.1381
3/15/2018 19:04:19	R1801868-001A	Ag (328.068 nm)	0.0558 (ppm)	0.54	0.0558 (ppm)	3339.1752
3/15/2018 19:04:19	R1801868-001A	Al (394.401 nm)	2.5601 (ppm)	0.37	2.5601 (ppm)	27161.2844
3/15/2018 19:04:19	R1801868-001A	As (188.980 nm)	0.0427 (ppm)	12.30	0.0427 (ppm)	32.8212
3/15/2018 19:04:19	R1801868-001A	B (249.772 nm)	1.0828 (ppm)	0.42	1.0828 (ppm)	29027.0120
3/15/2018 19:04:19	R1801868-001A	Ba (230.424 nm)	2.2414 (ppm)	0.52	2.2414 (ppm)	65262.3141

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:04:19	R1801868-001A	Be (313.107 nm)	0.0461 (ppm)	0.44	0.0461 (ppm)	60090.8061
3/15/2018 19:04:19	R1801868-001A	Ca (227.547 nm)	1165.4489 o (ppm)	0.51	1165.4489 (ppm)	54994.0755
3/15/2018 19:04:19	R1801868-001A	Cd (214.439 nm)	0.0467 (ppm)	0.49	0.0467 (ppm)	981.5746
3/15/2018 19:04:19	R1801868-001A	Co (230.786 nm)	0.4811 (ppm)	0.43	0.4811 (ppm)	4444.7912
3/15/2018 19:04:19	R1801868-001A	Cr (267.716 nm)	0.1927 (ppm)	0.45	0.1927 (ppm)	8240.3514
3/15/2018 19:04:19	R1801868-001A	Cu (327.395 nm)	0.2741 (ppm)	0.42	0.2741 (ppm)	13818.4253
3/15/2018 19:04:19	R1801868-001A	Fe (234.350 nm)	0.9619 (ppm)	0.39	0.9619 (ppm)	9429.8258
3/15/2018 19:04:19	R1801868-001A	K (766.491 nm)	86.9359 o (ppm)	0.63	86.9359 (ppm)	207866.8989
3/15/2018 19:04:19	R1801868-001A	Mg (279.078 nm)	2.5190 (ppm)	0.34	2.5190 (ppm)	4636.0862
3/15/2018 19:04:19	R1801868-001A	Mn (257.610 nm)	0.4822 (ppm)	0.38	0.4822 (ppm)	132279.0563
3/15/2018 19:04:19	R1801868-001A	Mo (202.032 nm)	0.4823 (ppm)	0.27	0.4823 (ppm)	4295.1708
3/15/2018 19:04:19	R1801868-001A	Na (588.995 nm)	540.6759 o (ppm)	0.58	540.6759 (ppm)	18847768.0701
3/15/2018 19:04:19	R1801868-001A	Ni (230.299 nm)	0.4654 (ppm)	0.57	0.4654 (ppm)	2903.9360
3/15/2018 19:04:19	R1801868-001A	Pb (220.353 nm)	0.4926 (ppm)	0.16	0.4926 (ppm)	1006.6706
3/15/2018 19:04:19	R1801868-001A	Sb (217.582 nm)	0.5331 (ppm)	0.80	0.5331 (ppm)	680.1138
3/15/2018 19:04:19	R1801868-001A	Se (196.026 nm)	1.1271 o (ppm)	0.96	1.1271 (ppm)	855.7935
3/15/2018 19:04:19	R1801868-001A	Sn (189.925 nm)	-0.0011 u (ppm)	75.21	-0.0011 (ppm)	-2.0188
3/15/2018 19:04:19	R1801868-001A	Sr (216.596 nm)	6.6781 o (ppm)	0.54	6.6781 (ppm)	86297.4004
3/15/2018 19:04:19	R1801868-001A	Ti (336.122 nm)	0.5019 (ppm)	0.39	0.5019 (ppm)	85813.7766
3/15/2018 19:04:19	R1801868-001A	Tl (351.923 nm)	2.3101 o (ppm)	0.39	2.3101 (ppm)	5062.6019
3/15/2018 19:04:19	R1801868-001A	V (292.401 nm)	0.4870 (ppm)	0.21	0.4870 (ppm)	15069.8279
3/15/2018 19:04:19	R1801868-001A	Y (360.074 nm)	0.88 (Ratio)	0.84	0.88 (Ratio)	655868.29
3/15/2018 19:04:19	R1801868-001A	Y_R (360.074 nm)	0.88 (Ratio)	0.84	0.88 (Ratio)	656326.53
3/15/2018 19:04:19	R1801868-001A	Zn (213.857 nm)	0.4948 (ppm)	0.58	0.4948 (ppm)	13909.1241
3/15/2018 19:07:39	R1801868-001L	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-100.8205
3/15/2018 19:07:39	R1801868-001L	Al (394.401 nm)	0.0710 (ppm)	0.32	0.0710 (ppm)	862.7365
3/15/2018 19:07:39	R1801868-001L	As (188.980 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	-2.1623
3/15/2018 19:07:39	R1801868-001L	B (249.772 nm)	0.0101 (ppm)	3.19	0.0101 (ppm)	345.2272
3/15/2018 19:07:39	R1801868-001L	Be (230.424 nm)	0.0632 (ppm)	1.06	0.0632 (ppm)	1845.5821
3/15/2018 19:07:39	R1801868-001L	Be (313.107 nm)	0.0000 (ppm)	98.40	0.0000 (ppm)	-568.8375
3/15/2018 19:07:39	R1801868-001L	Ca (227.547 nm)	221.2062 o (ppm)	1.31	221.2062 (ppm)	10443.1381
3/15/2018 19:07:39	R1801868-001L	Cd (214.439 nm)	-0.0004 u (ppm)	42.36	-0.0004 (ppm)	8.6003
3/15/2018 19:07:39	R1801868-001L	Co (230.786 nm)	0.0003 (ppm)	48.34	0.0003 (ppm)	-1.3414
3/15/2018 19:07:39	R1801868-001L	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-7.8330
3/15/2018 19:07:39	R1801868-001L	Cu (327.395 nm)	0.0006 (ppm)	62.63	0.0006 (ppm)	38.7201
3/15/2018 19:07:39	R1801868-001L	Fe (234.350 nm)	0.0044 (ppm)	14.12	0.0044 (ppm)	60.9708
3/15/2018 19:07:39	R1801868-001L	K (766.491 nm)	11.7762 (ppm)	1.50	11.7762 (ppm)	28153.3121
3/15/2018 19:07:39	R1801868-001L	Mg (279.078 nm)	0.1192 (ppm)	0.69	0.1192 (ppm)	214.1734
3/15/2018 19:07:39	R1801868-001L	Mn (257.610 nm)	0.0006 (ppm)	17.42	0.0006 (ppm)	167.7920
3/15/2018 19:07:39	R1801868-001L	Mo (202.032 nm)	0.0016 (ppm)	18.97	0.0016 (ppm)	19.4274
3/15/2018 19:07:39	R1801868-001L	Na (588.995 nm)	116.7213 o (ppm)	1.26	116.7213 (ppm)	4062216.9989
3/15/2018 19:07:39	R1801868-001L	Ni (230.299 nm)	0.0011 (ppm)	82.69	0.0011 (ppm)	-16.0965
3/15/2018 19:07:39	R1801868-001L	Pb (220.353 nm)	-0.0017 u (ppm)	78.09	-0.0017 (ppm)	2.5954
3/15/2018 19:07:39	R1801868-001L	Sb (217.582 nm)	0.0049 (ppm)	26.03	0.0049 (ppm)	6.0383
3/15/2018 19:07:39	R1801868-001L	Se (196.026 nm)	-0.0050 u (ppm)	22.79	-0.0050 (ppm)	-0.9751
3/15/2018 19:07:39	R1801868-001L	Sn (189.925 nm)	-0.0017 u (ppm)	41.23	-0.0017 (ppm)	-2.6738
3/15/2018 19:07:39	R1801868-001L	Sr (216.596 nm)	1.4178 (ppm)	1.49	1.4178 (ppm)	18319.0863
3/15/2018 19:07:39	R1801868-001L	Ti (336.122 nm)	0.0037 (ppm)	3.63	0.0037 (ppm)	-3.0321
3/15/2018 19:07:39	R1801868-001L	Tl (351.923 nm)	0.0031 (ppm)	24.26	0.0031 (ppm)	31.6584
3/15/2018 19:07:39	R1801868-001L	V (292.401 nm)	0.0010 (ppm)	21.87	0.0010 (ppm)	164.2360
3/15/2018 19:07:39	R1801868-001L	Y (360.074 nm)	0.97 (Ratio)	1.52	0.97 (Ratio)	722920.82

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:07:39	R1801868-001L	Y_R (360.074 nm)	0.97 (Ratio)	1.52	0.97 (Ratio)	723338.86
3/15/2018 19:07:39	R1801868-001L	Zn (213.857 nm)	0.0044 (ppm)	2.36	0.0044 (ppm)	97.8196
3/15/2018 19:10:57	R1801868-002	Ag (328.068 nm)	-0.0002 u (ppm)	40.95	-0.0002 (ppm)	-111.5403
3/15/2018 19:10:57	R1801868-002	Al (394.401 nm)	0.1932 (ppm)	2.56	0.1932 (ppm)	2152.9660
3/15/2018 19:10:57	R1801868-002	As (188.980 nm)	0.0030 (ppm)	20.81	0.0030 (ppm)	-1.6856
3/15/2018 19:10:57	R1801868-002	B (249.772 nm)	0.0668 (ppm)	2.05	0.0668 (ppm)	1860.6288
3/15/2018 19:10:57	R1801868-002	Ba (230.424 nm)	0.2453 (ppm)	1.71	0.2453 (ppm)	7146.7862
3/15/2018 19:10:57	R1801868-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-596.5678
3/15/2018 19:10:57	R1801868-002	Ca (227.547 nm)	898.8905 o (ppm)	1.78	898.8905 (ppm)	42417.4084
3/15/2018 19:10:57	R1801868-002	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.4376
3/15/2018 19:10:57	R1801868-002	Co (230.786 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	4.0169
3/15/2018 19:10:57	R1801868-002	Cr (267.716 nm)	0.0014 (ppm)	9.25	0.0014 (ppm)	55.2181
3/15/2018 19:10:57	R1801868-002	Cu (327.395 nm)	0.0030 (ppm)	10.40	0.0030 (ppm)	160.7380
3/15/2018 19:10:57	R1801868-002	Fe (234.350 nm)	0.0525 (ppm)	1.77	0.0525 (ppm)	532.1889
3/15/2018 19:10:57	R1801868-002	K (766.491 nm)	48.5634 (ppm)	1.70	48.5634 (ppm)	116114.7935
3/15/2018 19:10:57	R1801868-002	Mg (279.078 nm)	3.6176 (ppm)	1.86	3.6176 (ppm)	6660.4746
3/15/2018 19:10:57	R1801868-002	Mn (257.610 nm)	0.0033 (ppm)	2.85	0.0033 (ppm)	922.8952
3/15/2018 19:10:57	R1801868-002	Mo (202.032 nm)	0.0047 (ppm)	4.28	0.0047 (ppm)	47.0572
3/15/2018 19:10:57	R1801868-002	Na (588.995 nm)	251.4970 o (ppm)	1.46	251.4970 (ppm)	8762564.0796
3/15/2018 19:10:57	R1801868-002	Ni (230.299 nm)	-0.0045 u (ppm)	38.12	-0.0045 (ppm)	-51.4712
3/15/2018 19:10:57	R1801868-002	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.1371
3/15/2018 19:10:57	R1801868-002	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.4920
3/15/2018 19:10:57	R1801868-002	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	1.3605
3/15/2018 19:10:57	R1801868-002	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.5427
3/15/2018 19:10:57	R1801868-002	Sr (216.596 nm)	6.3084 o (ppm)	1.10	6.3084 (ppm)	81518.7625
3/15/2018 19:10:57	R1801868-002	Ti (336.122 nm)	0.0081 (ppm)	2.07	0.0081 (ppm)	762.0756
3/15/2018 19:10:57	R1801868-002	Tl (351.923 nm)	0.0223 (ppm)	14.59	0.0223 (ppm)	73.4921
3/15/2018 19:10:57	R1801868-002	V (292.401 nm)	0.0025 (ppm)	11.14	0.0025 (ppm)	211.5581
3/15/2018 19:10:57	R1801868-002	Y (360.074 nm)	0.91 (Ratio)	1.31	0.91 (Ratio)	675606.39
3/15/2018 19:10:57	R1801868-002	Y_R (360.074 nm)	0.91 (Ratio)	1.31	0.91 (Ratio)	676041.04
3/15/2018 19:10:57	R1801868-002	Zn (213.857 nm)	0.0015 (ppm)	2.53	0.0015 (ppm)	15.2416
3/15/2018 19:14:17	R1801868-003	Ag (328.068 nm)	-0.0002 u (ppm)	35.46	-0.0002 (ppm)	-109.0292
3/15/2018 19:14:17	R1801868-003	Al (394.401 nm)	0.2129 (ppm)	0.38	0.2129 (ppm)	2361.3204
3/15/2018 19:14:17	R1801868-003	As (188.980 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-4.4618
3/15/2018 19:14:17	R1801868-003	B (249.772 nm)	0.0367 (ppm)	1.71	0.0367 (ppm)	1057.7053
3/15/2018 19:14:17	R1801868-003	Ba (230.424 nm)	0.3925 (ppm)	2.23	0.3925 (ppm)	11433.2373
3/15/2018 19:14:17	R1801868-003	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-586.9699
3/15/2018 19:14:17	R1801868-003	Ca (227.547 nm)	1526.5458 o (ppm)	1.40	1526.5458 (ppm)	72031.2283
3/15/2018 19:14:17	R1801868-003	Cd (214.439 nm)	0.0001 (ppm)	89.47	0.0001 (ppm)	19.6637
3/15/2018 19:14:17	R1801868-003	Co (230.786 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.9010
3/15/2018 19:14:17	R1801868-003	Cr (267.716 nm)	0.0014 (ppm)	15.64	0.0014 (ppm)	55.2973
3/15/2018 19:14:17	R1801868-003	Cu (327.395 nm)	0.0059 (ppm)	2.37	0.0059 (ppm)	306.3972
3/15/2018 19:14:17	R1801868-003	Fe (234.350 nm)	0.0262 (ppm)	0.96	0.0262 (ppm)	274.8436
3/15/2018 19:14:17	R1801868-003	K (766.491 nm)	71.7382 o (ppm)	1.59	71.7382 (ppm)	171527.7923
3/15/2018 19:14:17	R1801868-003	Mg (279.078 nm)	1.0176 (ppm)	0.99	1.0176 (ppm)	1869.6013
3/15/2018 19:14:17	R1801868-003	Mn (257.610 nm)	0.0023 (ppm)	2.04	0.0023 (ppm)	647.4432
3/15/2018 19:14:17	R1801868-003	Mo (202.032 nm)	0.0035 (ppm)	6.98	0.0035 (ppm)	36.4451
3/15/2018 19:14:17	R1801868-003	Na (588.995 nm)	383.4901 o (ppm)	1.66	383.4901 (ppm)	13365862.7272
3/15/2018 19:14:17	R1801868-003	Ni (230.299 nm)	0.0003 (ppm)	88.41	0.0003 (ppm)	-21.2573
3/15/2018 19:14:17	R1801868-003	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.2731
3/15/2018 19:14:17	R1801868-003	Sb (217.582 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	1.4807

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:14:17	R1801868-003	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	2.2543
3/15/2018 19:14:17	R1801868-003	Sn (189.925 nm)	-0.0016 u (ppm)	98.21	-0.0016 (ppm)	-2.6118
3/15/2018 19:14:17	R1801868-003	Sr (216.596 nm)	7.2000 o (ppm)	1.44	7.2000 (ppm)	83041.2610
3/15/2018 19:14:17	R1801868-003	Tl (336.122 nm)	0.0106 (ppm)	0.65	0.0106 (ppm)	1179.4379
3/15/2018 19:14:17	R1801868-003	Tl (351.923 nm)	0.0495 (ppm)	9.85	0.0495 (ppm)	132.6792
3/15/2018 19:14:17	R1801868-003	V (292.401 nm)	0.0020 (ppm)	15.58	0.0020 (ppm)	195.2853
3/15/2018 19:14:17	R1801868-003	Y (360.074 nm)	0.88 (Ratio)	1.08	0.88 (Ratio)	655814.63
3/15/2018 19:14:17	R1801868-003	Y_R (360.074 nm)	0.88 (Ratio)	1.08	0.88 (Ratio)	656252.93
3/15/2018 19:14:17	R1801868-003	Zn (213.857 nm)	0.0018 (ppm)	6.06	0.0018 (ppm)	23.1702
3/15/2018 18:17:36	R1801868-004	Ag (328.068 nm)	-0.0002 u (ppm)	91.15	-0.0002 (ppm)	-107.0018
3/15/2018 19:17:36	R1801868-004	Al (394.401 nm)	0.0589 (ppm)	2.17	0.0589 (ppm)	735.0339
3/15/2018 19:17:36	R1801868-004	As (188.980 nm)	0.0067 (ppm)	21.62	0.0067 (ppm)	1.5334
3/15/2018 19:17:36	R1801868-004	B (249.772 nm)	0.0374 (ppm)	0.60	0.0374 (ppm)	1074.2553
3/15/2018 19:17:36	R1801868-004	Ba (230.424 nm)	0.0691 (ppm)	0.48	0.0691 (ppm)	2017.3882
3/15/2018 19:17:36	R1801868-004	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-588.9234
3/15/2018 19:17:36	R1801868-004	Ce (227.547 nm)	245.6446 o (ppm)	0.52	245.6446 (ppm)	11596.1805
3/15/2018 19:17:36	R1801868-004	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.1146
3/15/2018 19:17:36	R1801868-004	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.6668
3/15/2018 19:17:36	R1801868-004	Cr (267.716 nm)	0.0024 (ppm)	5.90	0.0024 (ppm)	96.5994
3/15/2018 19:17:36	R1801868-004	Cu (327.395 nm)	0.0008 (ppm)	28.24	0.0008 (ppm)	50.8367
3/15/2018 19:17:36	R1801868-004	Fe (234.350 nm)	0.0317 (ppm)	0.46	0.0317 (ppm)	328.4502
3/15/2018 19:17:36	R1801868-004	K (766.491 nm)	19.7220 (ppm)	0.51	19.7220 (ppm)	47152.6335
3/15/2018 19:17:36	R1801868-004	Mg (279.078 nm)	4.5949 (ppm)	0.48	4.5949 (ppm)	8461.1855
3/15/2018 19:17:36	R1801868-004	Mn (257.610 nm)	0.0021 (ppm)	0.45	0.0021 (ppm)	577.2683
3/15/2018 19:17:36	R1801868-004	Mo (202.032 nm)	0.0026 (ppm)	2.36	0.0026 (ppm)	27.8820
3/15/2018 19:17:36	R1801868-004	Na (588.995 nm)	65.7911 o (ppm)	0.59	65.7911 (ppm)	2286011.0646
3/15/2018 19:17:36	R1801868-004	Ni (230.299 nm)	-0.0066 u (ppm)	10.48	-0.0066 (ppm)	-64.3922
3/15/2018 19:17:36	R1801868-004	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.2877
3/15/2018 19:17:36	R1801868-004	Sb (217.582 nm)	0.0026 (ppm)	55.45	0.0026 (ppm)	3.1174
3/15/2018 19:17:36	R1801868-004	Se (196.026 nm)	-0.0031 u (ppm)	> 100.00	-0.0031 (ppm)	0.4682
3/15/2018 19:17:36	R1801868-004	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.5644
3/15/2018 19:17:36	R1801868-004	Sr (216.596 nm)	1.2986 (ppm)	0.89	1.2986 (ppm)	16778.7706
3/15/2018 19:17:36	R1801868-004	Tl (336.122 nm)	0.0026 (ppm)	0.76	0.0026 (ppm)	-199.2212
3/15/2018 19:17:36	R1801868-004	Tl (351.923 nm)	0.0027 (ppm)	20.37	0.0027 (ppm)	30.7022
3/15/2018 19:17:36	R1801868-004	V (292.401 nm)	0.0024 (ppm)	7.16	0.0024 (ppm)	206.6946
3/15/2018 19:17:36	R1801868-004	Y (360.074 nm)	0.97 (Ratio)	0.70	0.97 (Ratio)	719697.73
3/15/2018 19:17:36	R1801868-004	Y_R (360.074 nm)	0.97 (Ratio)	0.70	0.97 (Ratio)	720069.87
3/15/2018 19:17:36	R1801868-004	Zn (213.857 nm)	0.0034 (ppm)	4.99	0.0034 (ppm)	68.9749
3/15/2018 19:20:55	Continuing Calibration Verification	Ag (328.068 nm)	0.4806 (ppm)	0.11	0.4806 (ppm)	29503.3926
3/15/2018 19:20:55	Continuing Calibration Verification	Al (394.401 nm)	9.5197 (ppm)	0.27	9.5197 (ppm)	100693.5507
3/15/2018 19:20:55	Continuing Calibration Verification	As (188.980 nm)	0.9931 (ppm)	1.49	0.9931 (ppm)	859.5786
3/15/2018 19:20:55	Continuing Calibration Verification	B (249.772 nm)	2.4276 (ppm)	0.20	2.4276 (ppm)	64982.9447
3/15/2018 19:20:55	Continuing Calibration Verification	Be (230.424 nm)	10.1921 (ppm)	0.15	10.1921 (ppm)	296737.4436
3/15/2018 19:20:55	Continuing Calibration Verification	Be (313.107 nm)	0.2503 (ppm)	0.11	0.2503 (ppm)	329193.5214
3/15/2018 19:20:55	Continuing Calibration Verification	Ce (227.547 nm)	23.8867 (ppm)	0.25	23.8867 (ppm)	1133.2756
3/15/2018 19:20:55	Continuing Calibration Verification	Cd (214.439 nm)	0.5066 (ppm)	0.24	0.5066 (ppm)	10490.5542
3/15/2018 19:20:55	Continuing Calibration Verification	Co (230.786 nm)	2.5527 (ppm)	0.17	2.5527 (ppm)	23599.3154
3/15/2018 19:20:55	Continuing Calibration Verification	Cr (267.716 nm)	0.5171 (ppm)	0.22	0.5171 (ppm)	22118.8656
3/15/2018 19:20:55	Continuing Calibration Verification	Cu (327.395 nm)	1.2004 (ppm)	0.40	1.2004 (ppm)	60494.4882
3/15/2018 19:20:55	Continuing Calibration Verification	Fe (234.350 nm)	4.9853 (ppm)	0.22	4.9853 (ppm)	48795.1724
3/15/2018 19:20:55	Continuing Calibration Verification	K (766.491 nm)	24.4158 (ppm)	0.50	24.4158 (ppm)	58375.8283

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:20:55	Continuing Calibration Verification	Mg (279.078 nm)	24.7663 (ppm)	0.19	24.7663 (ppm)	45629.4151
3/15/2018 19:20:55	Continuing Calibration Verification	Mn (257.610 nm)	0.7617 (ppm)	0.20	0.7617 (ppm)	208960.3996
3/15/2018 19:20:55	Continuing Calibration Verification	Mo (202.032 nm)	2.4786 (ppm)	0.20	2.4786 (ppm)	22050.6980
3/15/2018 19:20:55	Continuing Calibration Verification	Na (588.995 nm)	24.7868 (ppm)	0.51	24.7868 (ppm)	855972.1855
3/15/2018 19:20:55	Continuing Calibration Verification	Ni (230.299 nm)	2.0544 (ppm)	0.24	2.0544 (ppm)	12896.0591
3/15/2018 19:20:55	Continuing Calibration Verification	Pb (220.353 nm)	0.5061 (ppm)	0.71	0.5061 (ppm)	1034.0549
3/15/2018 19:20:55	Continuing Calibration Verification	Sb (217.582 nm)	5.0674 (ppm)	0.30	5.0674 (ppm)	6465.7469
3/15/2018 19:20:55	Continuing Calibration Verification	Se (196.026 nm)	0.4944 (ppm)	0.62	0.4944 (ppm)	376.9651
3/15/2018 19:20:55	Continuing Calibration Verification	Sn (189.925 nm)	5.0602 (ppm)	0.09	5.0602 (ppm)	5727.6589
3/15/2018 19:20:55	Continuing Calibration Verification	Sr (216.596 nm)	2.5142 (ppm)	0.35	2.5142 (ppm)	32487.0092
3/15/2018 19:20:55	Continuing Calibration Verification	Ti (336.122 nm)	2.4636 (ppm)	0.16	2.4636 (ppm)	423685.6710
3/15/2018 19:20:55	Continuing Calibration Verification	Tl (351.923 nm)	1.0053 (ppm)	0.18	1.0053 (ppm)	2217.2248
3/15/2018 19:20:55	Continuing Calibration Verification	V (292.401 nm)	2.4951 (ppm)	0.19	2.4951 (ppm)	76654.2197
3/15/2018 19:20:55	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.32	0.99 (Ratio)	734505.18
3/15/2018 19:20:55	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.32	0.99 (Ratio)	734852.09
3/15/2018 19:20:55	Continuing Calibration Verification	Zn (213.857 nm)	0.9657 (ppm)	0.15	0.9657 (ppm)	27170.3992
3/15/2018 19:24:14	Continuing Calibration Blank	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-100.9101
3/15/2018 19:24:14	Continuing Calibration Blank	Al (394.401 nm)	0.0046 (ppm)	5.62	0.0046 (ppm)	160.7646
3/15/2018 19:24:14	Continuing Calibration Blank	As (188.980 nm)	0.0022 (ppm)	88.83	0.0022 (ppm)	-2.4423
3/15/2018 19:24:14	Continuing Calibration Blank	B (249.772 nm)	0.0022 (ppm)	7.52	0.0022 (ppm)	133.6385
3/15/2018 19:24:14	Continuing Calibration Blank	Ba (230.424 nm)	0.0037 (ppm)	4.12	0.0037 (ppm)	114.2070
3/15/2018 19:24:14	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	8.24	0.0001 (ppm)	-462.2351
3/15/2018 19:24:14	Continuing Calibration Blank	Ce (227.547 nm)	-0.0381 u (ppm)	48.53	-0.0381 (ppm)	4.4641
3/15/2018 19:24:14	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	17.22	0.0002 (ppm)	20.4813
3/15/2018 19:24:14	Continuing Calibration Blank	Co (230.786 nm)	0.0006 (ppm)	23.86	0.0006 (ppm)	1.4034
3/15/2018 19:24:14	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	36.57	0.0002 (ppm)	6.5674
3/15/2018 19:24:14	Continuing Calibration Blank	Cu (327.395 nm)	0.0006 (ppm)	49.05	0.0006 (ppm)	38.2199
3/15/2018 19:24:14	Continuing Calibration Blank	Fe (234.350 nm)	0.0030 (ppm)	5.92	0.0030 (ppm)	47.2308
3/15/2018 19:24:14	Continuing Calibration Blank	K (766.491 nm)	0.0262 (ppm)	17.43	0.0262 (ppm)	58.1451
3/15/2018 19:24:14	Continuing Calibration Blank	Mg (279.078 nm)	0.0083 (ppm)	26.85	0.0083 (ppm)	9.7646
3/15/2018 19:24:14	Continuing Calibration Blank	Mn (257.610 nm)	0.0003 (ppm)	8.89	0.0003 (ppm)	86.8858
3/15/2018 19:24:14	Continuing Calibration Blank	Mo (202.032 nm)	0.0028 (ppm)	8.48	0.0028 (ppm)	30.0594
3/15/2018 19:24:14	Continuing Calibration Blank	Na (588.995 nm)	0.0166 (ppm)	17.31	0.0166 (ppm)	-7895.3061
3/15/2018 19:24:14	Continuing Calibration Blank	Ni (230.299 nm)	0.0009 (ppm)	90.03	0.0009 (ppm)	-17.6008
3/15/2018 19:24:14	Continuing Calibration Blank	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.3460
3/15/2018 19:24:14	Continuing Calibration Blank	Sb (217.582 nm)	0.0036 (ppm)	33.13	0.0036 (ppm)	4.4206
3/15/2018 19:24:14	Continuing Calibration Blank	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	3.8823
3/15/2018 19:24:14	Continuing Calibration Blank	Sn (189.925 nm)	0.0035 (ppm)	42.11	0.0035 (ppm)	3.2384
3/15/2018 19:24:14	Continuing Calibration Blank	Sr (216.596 nm)	0.0009 (ppm)	43.62	0.0009 (ppm)	9.1342
3/15/2018 19:24:14	Continuing Calibration Blank	Ti (336.122 nm)	0.0017 (ppm)	5.42	0.0017 (ppm)	-349.0408
3/15/2018 19:24:14	Continuing Calibration Blank	Tl (351.923 nm)	0.0017 (ppm)	47.46	0.0017 (ppm)	28.6010
3/15/2018 19:24:14	Continuing Calibration Blank	V (292.401 nm)	0.0009 (ppm)	29.11	0.0009 (ppm)	161.6093
3/15/2018 19:24:14	Continuing Calibration Blank	Y (360.074 nm)	1.01 (Ratio)	0.75	1.01 (Ratio)	754616.22
3/15/2018 19:24:14	Continuing Calibration Blank	Y_R (360.074 nm)	1.01 (Ratio)	0.75	1.01 (Ratio)	754909.31
3/15/2018 19:24:14	Continuing Calibration Blank	Zn (213.857 nm)	0.0004 (ppm)	14.32	0.0004 (ppm)	-15.2174
3/15/2018 19:27:33	R1801868-005	Ag (328.068 nm)	-0.0002 u (ppm)	27.68	-0.0002 (ppm)	-107.6579
3/15/2018 19:27:33	R1801868-005	Al (394.401 nm)	0.0556 (ppm)	1.67	0.0556 (ppm)	699.7676
3/15/2018 19:27:33	R1801868-005	As (188.980 nm)	0.0053 (ppm)	32.96	0.0053 (ppm)	0.3134
3/15/2018 19:27:33	R1801868-005	B (249.772 nm)	0.0668 (ppm)	0.14	0.0668 (ppm)	1862.2968
3/15/2018 19:27:33	R1801868-005	Ba (230.424 nm)	0.2043 (ppm)	0.05	0.2043 (ppm)	5954.4902
3/15/2018 19:27:33	R1801868-005	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-579.1563



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:27:33	R1801868-005	Ca (227.547 nm)	749.1112 u (ppm)	0.38	749.1112 (ppm)	35350.5728
3/15/2018 19:27:33	R1801868-005	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.9568
3/15/2018 19:27:33	R1801868-005	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.5786
3/15/2018 19:27:33	R1801868-005	Cr (267.716 nm)	0.0017 (ppm)	11.69	0.0017 (ppm)	68.5703
3/15/2018 19:27:33	R1801868-005	Cu (327.395 nm)	0.0006 (ppm)	43.65	0.0006 (ppm)	39.4541
3/15/2018 19:27:33	R1801868-005	Fe (234.350 nm)	0.0100 (ppm)	1.24	0.0100 (ppm)	116.2511
3/15/2018 19:27:33	R1801868-005	K (766.491 nm)	54.1956 (ppm)	0.44	54.1956 (ppm)	129581.8957
3/15/2018 19:27:33	R1801868-005	Mg (279.078 nm)	5.5970 (ppm)	0.21	5.5970 (ppm)	10307.6432
3/15/2018 19:27:33	R1801868-005	Mn (257.610 nm)	0.0014 (ppm)	1.57	0.0014 (ppm)	389.5026
3/15/2018 19:27:33	R1801868-005	Mo (202.032 nm)	0.0038 (ppm)	10.51	0.0038 (ppm)	38.8505
3/15/2018 19:27:33	R1801868-005	Na (588.995 nm)	314.9644 u (ppm)	0.63	314.9644 (ppm)	10976007.8976
3/15/2018 19:27:33	R1801868-005	Ni (230.289 nm)	-0.0058 u (ppm)	3.89	-0.0058 (ppm)	-59.6941
3/15/2018 19:27:33	R1801868-005	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.1735
3/15/2018 19:27:33	R1801868-005	Sb (217.582 nm)	0.0026 (ppm)	41.00	0.0026 (ppm)	3.0893
3/15/2018 19:27:33	R1801868-005	Se (196.026 nm)	0.0045 (ppm)	58.68	0.0045 (ppm)	6.2066
3/15/2018 19:27:33	R1801868-005	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6079
3/15/2018 19:27:33	R1801868-005	Sr (216.596 nm)	4.2181 (ppm)	0.33	4.2181 (ppm)	54507.2128
3/15/2018 19:27:33	R1801868-005	Ti (336.122 nm)	0.0057 (ppm)	1.42	0.0057 (ppm)	335.3268
3/15/2018 19:27:33	R1801868-005	Tl (351.923 nm)	0.0221 (ppm)	5.33	0.0221 (ppm)	72.8980
3/15/2018 19:27:33	R1801868-005	V (292.401 nm)	0.0018 (ppm)	5.87	0.0018 (ppm)	189.0840
3/15/2018 19:27:33	R1801868-005	Y (360.074 nm)	0.92 (Ratio)	0.54	0.92 (Ratio)	681668.32
3/15/2018 19:27:33	R1801868-005	Y_R (360.074 nm)	0.92 (Ratio)	0.54	0.92 (Ratio)	682106.03
3/15/2018 19:27:33	R1801868-005	Zn (213.857 nm)	0.0017 (ppm)	7.96	0.0017 (ppm)	19.9935
3/15/2018 19:30:52	R1801868-006	Ag (328.068 nm)	-0.0004 u (ppm)	18.87	-0.0004 (ppm)	-120.0171
3/15/2018 19:30:52	R1801868-006	Al (394.401 nm)	0.0542 (ppm)	1.23	0.0542 (ppm)	684.8486
3/15/2018 19:30:52	R1801868-006	As (188.980 nm)	0.0028 u (ppm)	97.96	0.0028 (ppm)	-1.9076
3/15/2018 19:30:52	R1801868-006	B (249.772 nm)	0.0285 (ppm)	1.02	0.0285 (ppm)	837.9046
3/15/2018 19:30:52	R1801868-006	Ba (230.424 nm)	0.1973 (ppm)	0.17	0.1973 (ppm)	5751.8233
3/15/2018 19:30:52	R1801868-006	Be (313.107 nm)	0.0000 (ppm)	56.84	0.0000 (ppm)	-580.9081
3/15/2018 19:30:52	R1801868-006	Ca (227.547 nm)	697.9407 u (ppm)	0.53	697.9407 (ppm)	32936.2661
3/15/2018 19:30:52	R1801868-006	Cd (214.439 nm)	-0.0002 u (ppm)	82.56	-0.0002 (ppm)	12.9516
3/15/2018 19:30:52	R1801868-006	Co (230.786 nm)	0.0005 (ppm)	68.92	0.0005 (ppm)	0.7541
3/15/2018 19:30:52	R1801868-006	Cr (267.716 nm)	0.0031 (ppm)	4.69	0.0031 (ppm)	130.6376
3/15/2018 19:30:52	R1801868-006	Cu (327.395 nm)	0.0019 (ppm)	5.18	0.0019 (ppm)	106.1856
3/15/2018 19:30:52	R1801868-006	Fe (234.350 nm)	0.0058 (ppm)	1.55	0.0058 (ppm)	75.1009
3/15/2018 19:30:52	R1801868-006	K (766.491 nm)	43.6654 (ppm)	0.48	43.6654 (ppm)	104403.3940
3/15/2018 19:30:52	R1801868-006	Mg (279.078 nm)	0.5711 (ppm)	0.63	0.5711 (ppm)	1046.9198
3/15/2018 19:30:52	R1801868-006	Mn (257.610 nm)	0.0001 (ppm)	2.18	0.0001 (ppm)	37.9712
3/15/2018 19:30:52	R1801868-006	Mo (202.032 nm)	0.0055 (ppm)	10.08	0.0055 (ppm)	53.9187
3/15/2018 19:30:52	R1801868-006	Na (588.995 nm)	221.3990 u (ppm)	0.35	221.3990 (ppm)	7712887.0662
3/15/2018 19:30:52	R1801868-006	Ni (230.289 nm)	-0.0016 u (ppm)	11.57	-0.0016 (ppm)	-32.8006
3/15/2018 19:30:52	R1801868-006	Pb (220.353 nm)	-0.0008 u (ppm)	77.43	-0.0008 (ppm)	4.4704
3/15/2018 19:30:52	R1801868-006	Sb (217.582 nm)	0.0040 (ppm)	60.20	0.0040 (ppm)	4.9011
3/15/2018 19:30:52	R1801868-006	Se (196.026 nm)	0.0025 (ppm)	75.83	0.0025 (ppm)	4.7502
3/15/2018 19:30:52	R1801868-006	Sn (189.925 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-2.8634
3/15/2018 19:30:52	R1801868-006	Sr (216.596 nm)	3.7930 (ppm)	0.67	3.7930 (ppm)	49012.8113
3/15/2018 19:30:52	R1801868-006	Ti (336.122 nm)	0.0052 (ppm)	1.59	0.0052 (ppm)	263.1275
3/15/2018 19:30:52	R1801868-006	Tl (351.923 nm)	0.0177 (ppm)	16.56	0.0177 (ppm)	63.4911
3/15/2018 19:30:52	R1801868-006	V (292.401 nm)	0.0037 (ppm)	7.25	0.0037 (ppm)	247.7744
3/15/2018 19:30:52	R1801868-006	Y (360.074 nm)	0.92 (Ratio)	0.35	0.92 (Ratio)	684398.59
3/15/2018 19:30:52	R1801868-006	Y_R (360.074 nm)	0.92 (Ratio)	0.35	0.92 (Ratio)	684825.72

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:30:52	R1801868-006	Zn (213.857 nm)	0.0011 (ppm)	9.62	0.0011 (ppm)	4.1466
3/15/2018 19:34:11	R1801868-007	Ag (328.068 nm)	-0.0003 u (ppm)	36.49	-0.0003 (ppm)	-113.1042
3/15/2018 19:34:11	R1801868-007	Al (394.401 nm)	0.0934 (ppm)	0.99	0.0934 (ppm)	1099.5661
3/15/2018 19:34:11	R1801868-007	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-4.9237
3/15/2018 19:34:11	R1801868-007	B (249.772 nm)	0.0231 (ppm)	0.20	0.0231 (ppm)	692.3131
3/15/2018 19:34:11	R1801868-007	Ba (230.424 nm)	0.3307 (ppm)	0.57	0.3307 (ppm)	9633.1604
3/15/2018 19:34:11	R1801868-007	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-583.3345
3/15/2018 19:34:11	R1801868-007	Ca (227.547 nm)	1219.5043 o (ppm)	0.24	1219.5043 (ppm)	57544.5026
3/15/2018 19:34:11	R1801868-007	Cd (214.439 nm)	0.0001 (ppm)	46.07	0.0001 (ppm)	19.3618
3/15/2018 19:34:11	R1801868-007	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-3.0840
3/15/2018 19:34:11	R1801868-007	Cr (267.716 nm)	0.0013 (ppm)	10.78	0.0013 (ppm)	50.9050
3/15/2018 19:34:11	R1801868-007	Cu (327.395 nm)	0.0012 (ppm)	3.54	0.0012 (ppm)	69.4132
3/15/2018 19:34:11	R1801868-007	Fe (234.350 nm)	0.0114 (ppm)	2.99	0.0114 (ppm)	129.4913
3/15/2018 19:34:11	R1801868-007	K (766.491 nm)	73.3760 o (ppm)	0.40	73.3760 (ppm)	175443.9552
3/15/2018 19:34:11	R1801868-007	Mg (279.078 nm)	2.0411 (ppm)	0.29	2.0411 (ppm)	3755.5317
3/15/2018 19:34:11	R1801868-007	Mn (257.610 nm)	0.0111 (ppm)	0.57	0.0111 (ppm)	3061.7843
3/15/2018 19:34:11	R1801868-007	Mo (202.032 nm)	0.0044 (ppm)	2.90	0.0044 (ppm)	44.1741
3/15/2018 19:34:11	R1801868-007	Na (588.995 nm)	342.9770 o (ppm)	0.33	342.9770 (ppm)	11952955.9152
3/15/2018 19:34:11	R1801868-007	Ni (230.299 nm)	-0.0056 u (ppm)	11.83	-0.0056 (ppm)	-58.5174
3/15/2018 19:34:11	R1801868-007	Pb (220.353 nm)	-0.0010 u (ppm)	26.59	-0.0010 (ppm)	3.9941
3/15/2018 19:34:11	R1801868-007	Sb (217.582 nm)	0.0035 u (ppm)	> 100.00	0.0035 (ppm)	4.3427
3/15/2018 19:34:11	R1801868-007	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	2.6752
3/15/2018 19:34:11	R1801868-007	Sn (189.925 nm)	-0.0026 u (ppm)	40.78	-0.0026 (ppm)	-3.7471
3/15/2018 19:34:11	R1801868-007	Sr (216.596 nm)	5.3698 (ppm)	0.80	5.3698 (ppm)	69390.2132
3/15/2018 19:34:11	R1801868-007	Ti (336.122 nm)	0.0086 (ppm)	0.46	0.0086 (ppm)	834.2988
3/15/2018 19:34:11	R1801868-007	Tl (351.923 nm)	0.0346 (ppm)	13.63	0.0346 (ppm)	100.2573
3/15/2018 19:34:11	R1801868-007	V (292.401 nm)	0.0027 (ppm)	14.19	0.0027 (ppm)	216.1837
3/15/2018 19:34:11	R1801868-007	Y (360.074 nm)	0.89 (Ratio)	0.48	0.89 (Ratio)	663765.64
3/15/2018 19:34:11	R1801868-007	Y_R (360.074 nm)	0.89 (Ratio)	0.48	0.89 (Ratio)	664197.53
3/15/2018 19:34:11	R1801868-007	Zn (213.857 nm)	0.0023 (ppm)	6.13	0.0023 (ppm)	38.5137
3/15/2018 19:37:30	R1801868-008	Ag (328.068 nm)	-0.0003 u (ppm)	45.67	-0.0003 (ppm)	-114.1108
3/15/2018 19:37:30	R1801868-008	Al (394.401 nm)	0.0616 (ppm)	1.42	0.0616 (ppm)	763.2121
3/15/2018 19:37:30	R1801868-008	As (188.980 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-3.2030
3/15/2018 19:37:30	R1801868-008	B (249.772 nm)	0.0114 (ppm)	1.76	0.0114 (ppm)	380.8117
3/15/2018 19:37:30	R1801868-008	Ba (230.424 nm)	0.4484 (ppm)	0.10	0.4484 (ppm)	13061.9969
3/15/2018 19:37:30	R1801868-008	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.7256
3/15/2018 19:37:30	R1801868-008	Ca (227.547 nm)	1781.2964 o (ppm)	0.17	1781.2964 (ppm)	84050.7855
3/15/2018 19:37:30	R1801868-008	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.7990
3/15/2018 19:37:30	R1801868-008	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-2.2110
3/15/2018 19:37:30	R1801868-008	Cr (267.716 nm)	0.0016 (ppm)	1.52	0.0016 (ppm)	62.9031
3/15/2018 19:37:30	R1801868-008	Cu (327.395 nm)	0.0041 (ppm)	5.05	0.0041 (ppm)	216.6630
3/15/2018 19:37:30	R1801868-008	Fe (234.350 nm)	0.0008 (ppm)	16.87	0.0008 (ppm)	25.9731
3/15/2018 19:37:30	R1801868-008	K (766.491 nm)	101.3572 o (ppm)	0.33	101.3572 (ppm)	242349.3275
3/15/2018 19:37:30	R1801868-008	Mg (279.078 nm)	0.0845 (ppm)	2.19	0.0845 (ppm)	150.3069
3/15/2018 19:37:30	R1801868-008	Mn (257.610 nm)	0.0000 (ppm)	71.95	0.0000 (ppm)	16.5323
3/15/2018 19:37:30	R1801868-008	Mo (202.032 nm)	0.0048 (ppm)	7.07	0.0048 (ppm)	47.8789
3/15/2018 19:37:30	R1801868-008	Na (588.995 nm)	535.7421 o (ppm)	0.46	535.7421 (ppm)	18675701.4342
3/15/2018 19:37:30	R1801868-008	Ni (230.299 nm)	0.0031 (ppm)	5.27	0.0031 (ppm)	-3.4015
3/15/2018 19:37:30	R1801868-008	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.9270
3/15/2018 19:37:30	R1801868-008	Sb (217.582 nm)	0.0029 (ppm)	90.15	0.0029 (ppm)	3.5224
3/15/2018 19:37:30	R1801868-008	Se (196.026 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	1.0472

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:37:30	R1801868-008	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.4457
3/15/2018 19:37:30	R1801868-008	Sr (216.596 nm)	6.2084 o (ppm)	0.58	6.2084 (ppm)	80226.4187
3/15/2018 19:37:30	R1801868-008	Ti (336.122 nm)	0.0121 (ppm)	0.86	0.0121 (ppm)	1452.4978
3/15/2018 19:37:30	R1801868-008	Tl (351.923 nm)	0.0566 (ppm)	6.00	0.0566 (ppm)	148.3029
3/15/2018 19:37:30	R1801868-008	V (292.401 nm)	0.0012 (ppm)	23.79	0.0012 (ppm)	170.4231
3/15/2018 19:37:30	R1801868-008	Y (360.074 nm)	0.86 (Ratio)	0.42	0.86 (Ratio)	641900.79
3/15/2018 19:37:30	R1801868-008	Y_R (360.074 nm)	0.86 (Ratio)	0.42	0.86 (Ratio)	642361.22
3/15/2018 19:37:30	R1801868-008	Zn (213.857 nm)	0.0013 (ppm)	12.70	0.0013 (ppm)	10.1496
3/15/2018 19:40:48	R1801868-009	Ag (328.068 nm)	-0.0002 u (ppm)	20.22	-0.0002 (ppm)	-111.4499
3/15/2018 19:40:48	R1801868-009	Al (394.401 nm)	0.1065 (ppm)	0.19	0.1065 (ppm)	1237.1418
3/15/2018 19:40:48	R1801868-009	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.3806
3/15/2018 19:40:48	R1801868-009	B (249.772 nm)	0.0477 (ppm)	0.78	0.0477 (ppm)	1352.2205
3/15/2018 19:40:48	R1801868-009	Ba (230.424 nm)	0.2438 (ppm)	0.53	0.2438 (ppm)	7102.8999
3/15/2018 19:40:48	R1801868-009	Be (313.107 nm)	0.0000 (ppm)	66.40	0.0000 (ppm)	-576.3440
3/15/2018 19:40:48	R1801868-009	Ca (227.547 nm)	1063.1167 o (ppm)	0.35	1063.1167 (ppm)	50165.8734
3/15/2018 19:40:48	R1801868-009	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.7540
3/15/2018 19:40:48	R1801868-009	Co (230.786 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.3671
3/15/2018 19:40:48	R1801868-009	Cr (267.716 nm)	0.0008 (ppm)	11.98	0.0008 (ppm)	30.3562
3/15/2018 19:40:48	R1801868-009	Cu (327.395 nm)	0.0024 (ppm)	3.70	0.0024 (ppm)	129.7069
3/15/2018 19:40:48	R1801868-009	Fe (234.350 nm)	0.0088 (ppm)	4.17	0.0088 (ppm)	104.5496
3/15/2018 19:40:48	R1801868-009	K (766.491 nm)	54.5882 (ppm)	0.38	54.5882 (ppm)	130520.6261
3/15/2018 19:40:48	R1801868-009	Mg (279.078 nm)	7.6685 (ppm)	0.34	7.6685 (ppm)	14124.7350
3/15/2018 19:40:48	R1801868-009	Mn (257.610 nm)	0.0028 (ppm)	0.42	0.0028 (ppm)	782.5706
3/15/2018 19:40:48	R1801868-009	Mo (202.032 nm)	0.0031 (ppm)	5.27	0.0031 (ppm)	32.7393
3/15/2018 19:40:48	R1801868-009	Na (588.895 nm)	319.7960 o (ppm)	0.35	319.7960 (ppm)	11144513.8587
3/15/2018 19:40:48	R1801868-009	Ni (230.299 nm)	-0.0041 u (ppm)	20.58	-0.0041 (ppm)	-48.8242
3/15/2018 19:40:48	R1801868-009	Pb (220.353 nm)	-0.0028 u (ppm)	18.90	-0.0028 (ppm)	0.4746
3/15/2018 19:40:48	R1801868-009	Sb (217.582 nm)	0.0039 (ppm)	27.77	0.0039 (ppm)	4.7580
3/15/2018 19:40:48	R1801868-009	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	3.8695
3/15/2018 19:40:48	R1801868-009	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.3499
3/15/2018 19:40:48	R1801868-009	Sr (216.596 nm)	4.0505 (ppm)	0.86	4.0505 (ppm)	52340.2907
3/15/2018 19:40:48	R1801868-009	Ti (336.122 nm)	0.0076 (ppm)	2.00	0.0076 (ppm)	673.9393
3/15/2018 19:40:48	R1801868-009	Tl (351.923 nm)	0.0246 (ppm)	12.40	0.0246 (ppm)	78.3800
3/15/2018 19:40:48	R1801868-009	V (292.401 nm)	0.0014 (ppm)	5.08	0.0014 (ppm)	174.9721
3/15/2018 19:40:48	R1801868-009	Y (360.074 nm)	0.91 (Ratio)	0.13	0.91 (Ratio)	673852.38
3/15/2018 19:40:48	R1801868-009	Y_R (360.074 nm)	0.91 (Ratio)	0.13	0.91 (Ratio)	674272.90
3/15/2018 19:40:48	R1801868-009	Zn (213.857 nm)	0.0039 (ppm)	1.71	0.0039 (ppm)	83.5125
3/15/2018 19:44:07	R1801868-010	Ag (328.068 nm)	-0.0003 u (ppm)	41.87	-0.0003 (ppm)	-113.0281
3/15/2018 19:44:07	R1801868-010	Al (394.401 nm)	0.0578 (ppm)	1.13	0.0578 (ppm)	723.1557
3/15/2018 19:44:07	R1801868-010	As (188.980 nm)	0.0036 (ppm)	80.37	0.0036 (ppm)	-1.1693
3/15/2018 19:44:07	R1801868-010	B (249.772 nm)	0.0705 (ppm)	0.80	0.0705 (ppm)	1960.4973
3/15/2018 19:44:07	R1801868-010	Ba (230.424 nm)	0.1010 (ppm)	0.65	0.1010 (ppm)	2945.7657
3/15/2018 19:44:07	R1801868-010	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-585.8953
3/15/2018 19:44:07	R1801868-010	Ca (227.547 nm)	346.1678 o (ppm)	0.21	346.1678 (ppm)	16339.0366
3/15/2018 19:44:07	R1801868-010	Cd (214.439 nm)	-0.0001 u (ppm)	37.00	-0.0001 (ppm)	14.6858
3/15/2018 19:44:07	R1801868-010	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.5013
3/15/2018 19:44:07	R1801868-010	Cr (267.716 nm)	0.0022 (ppm)	5.56	0.0022 (ppm)	88.5154
3/15/2018 19:44:07	R1801868-010	Cu (327.395 nm)	0.0010 (ppm)	30.47	0.0010 (ppm)	56.8291
3/15/2018 19:44:07	R1801868-010	Fe (234.350 nm)	0.0053 (ppm)	1.91	0.0053 (ppm)	69.7526
3/15/2018 19:44:07	R1801868-010	K (766.491 nm)	19.3977 (ppm)	0.52	19.3977 (ppm)	46377.0512
3/15/2018 19:44:07	R1801868-010	Mg (279.078 nm)	1.7904 (ppm)	0.27	1.7904 (ppm)	3293.5313

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:44:07	R1801868-010	Mn (257.610 nm)	0.0005 (ppm)	5.35	0.0005 (ppm)	138.0274
3/15/2018 19:44:07	R1801868-010	Mo (202.032 nm)	0.0037 (ppm)	9.73	0.0037 (ppm)	38.2975
3/15/2018 19:44:07	R1801868-010	Na (588.995 nm)	90.3320 o (ppm)	0.39	90.3320 (ppm)	3141883.4060
3/15/2018 19:44:07	R1801868-010	Ni (230.299 nm)	-0.0018 u (ppm)	76.01	-0.0018 (ppm)	-34.4195
3/15/2018 19:44:07	R1801868-010	Pb (220.353 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	2.6469
3/15/2018 19:44:07	R1801868-010	Sb (217.582 nm)	0.0033 (ppm)	49.10	0.0033 (ppm)	3.9858
3/15/2018 19:44:07	R1801868-010	Se (196.026 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	3.4478
3/15/2018 19:44:07	R1801868-010	Sn (189.925 nm)	-0.0022 u (ppm)	64.23	-0.0022 (ppm)	-3.2581
3/15/2018 19:44:07	R1801868-010	Sr (216.596 nm)	1.8601 (ppm)	0.69	1.8601 (ppm)	24035.0953
3/15/2018 19:44:07	R1801868-010	Ti (336.122 nm)	0.0028 (ppm)	0.66	0.0028 (ppm)	-149.6976
3/15/2018 19:44:07	R1801868-010	Ti (351.923 nm)	0.0064 (ppm)	45.42	0.0064 (ppm)	38.6769
3/15/2018 19:44:07	R1801868-010	V (292.401 nm)	0.0045 (ppm)	4.92	0.0045 (ppm)	272.4393
3/15/2018 19:44:07	R1801868-010	Y (360.074 nm)	0.96 (Ratio)	0.76	0.96 (Ratio)	712769.35
3/15/2018 19:44:07	R1801868-010	Y_R (360.074 nm)	0.96 (Ratio)	0.76	0.96 (Ratio)	713146.64
3/15/2018 19:44:07	R1801868-010	Zn (213.857 nm)	0.0017 (ppm)	3.62	0.0017 (ppm)	21.4212
3/15/2018 19:47:26	R1801868-011	Ag (328.068 nm)	-0.0002 u (ppm)	95.40	-0.0002 (ppm)	-111.6615
3/15/2018 19:47:26	R1801868-011	Al (394.401 nm)	0.5947 (ppm)	0.69	0.5947 (ppm)	6395.0550
3/15/2018 19:47:26	R1801868-011	As (188.980 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	-2.2767
3/15/2018 19:47:26	R1801868-011	B (249.772 nm)	0.0474 (ppm)	1.20	0.0474 (ppm)	1342.4682
3/15/2018 19:47:26	R1801868-011	Ba (230.424 nm)	0.2573 (ppm)	0.87	0.2573 (ppm)	7498.0689
3/15/2018 19:47:26	R1801868-011	Be (313.107 nm)	0.0000 (ppm)	13.99	0.0000 (ppm)	-565.4683
3/15/2018 19:47:26	R1801868-011	Ca (227.547 nm)	941.0713 o (ppm)	0.75	941.0713 (ppm)	44407.5715
3/15/2018 19:47:26	R1801868-011	Cd (214.439 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	12.8397
3/15/2018 19:47:26	R1801868-011	Co (230.786 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	-0.5212
3/15/2018 19:47:26	R1801868-011	Cr (267.716 nm)	0.0014 (ppm)	6.62	0.0014 (ppm)	56.8725
3/15/2018 19:47:26	R1801868-011	Cu (327.395 nm)	0.0045 (ppm)	4.69	0.0045 (ppm)	234.0810
3/15/2018 19:47:26	R1801868-011	Fe (234.350 nm)	0.1205 (ppm)	0.73	0.1205 (ppm)	1197.8417
3/15/2018 19:47:26	R1801868-011	K (766.491 nm)	51.0828 (ppm)	0.65	51.0828 (ppm)	122138.8282
3/15/2018 19:47:26	R1801868-011	Mg (279.078 nm)	0.5526 (ppm)	1.13	0.5526 (ppm)	1012.7267
3/15/2018 19:47:26	R1801868-011	Mn (257.610 nm)	0.0090 (ppm)	0.91	0.0090 (ppm)	2483.9789
3/15/2018 19:47:26	R1801868-011	Mo (202.032 nm)	0.0033 (ppm)	6.68	0.0033 (ppm)	34.2077
3/15/2018 19:47:26	R1801868-011	Na (588.995 nm)	293.3364 o (ppm)	0.36	293.3364 (ppm)	10221723.9664
3/15/2018 19:47:26	R1801868-011	Ni (230.299 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-26.4005
3/15/2018 19:47:26	R1801868-011	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.9104
3/15/2018 19:47:26	R1801868-011	Sb (217.582 nm)	0.0018 (ppm)	70.90	0.0018 (ppm)	2.0592
3/15/2018 19:47:26	R1801868-011	Se (196.026 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	3.3573
3/15/2018 19:47:26	R1801868-011	Sn (189.925 nm)	-0.0014 u (ppm)	77.74	-0.0014 (ppm)	-2.3397
3/15/2018 19:47:26	R1801868-011	Sr (216.596 nm)	5.8490 o (ppm)	1.48	5.8490 (ppm)	75581.9278
3/15/2018 19:47:26	R1801868-011	Ti (336.122 nm)	0.0089 (ppm)	1.19	0.0089 (ppm)	888.5895
3/15/2018 19:47:26	R1801868-011	Ti (351.923 nm)	0.0251 (ppm)	5.51	0.0251 (ppm)	79.6257
3/15/2018 19:47:26	R1801868-011	V (292.401 nm)	0.0047 (ppm)	5.00	0.0047 (ppm)	277.1747
3/15/2018 19:47:26	R1801868-011	Y (360.074 nm)	0.91 (Ratio)	0.18	0.91 (Ratio)	680447.33
3/15/2018 19:47:26	R1801868-011	Y_R (360.074 nm)	0.92 (Ratio)	0.19	0.92 (Ratio)	680863.48
3/15/2018 19:47:26	R1801868-011	Zn (213.857 nm)	0.0026 (ppm)	4.36	0.0026 (ppm)	46.8100
3/15/2018 19:50:45	R1801868-012	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-103.5282
3/15/2018 19:50:45	R1801868-012	Al (394.401 nm)	0.1801 (ppm)	0.21	0.1801 (ppm)	2014.5745
3/15/2018 19:50:45	R1801868-012	As (188.980 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-4.8591
3/15/2018 19:50:45	R1801868-012	B (249.772 nm)	0.0024 (ppm)	8.99	0.0024 (ppm)	139.1840
3/15/2018 19:50:45	R1801868-012	Be (230.424 nm)	0.2252 (ppm)	0.67	0.2252 (ppm)	6563.4751
3/15/2018 19:50:45	R1801868-012	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-594.1632
3/15/2018 19:50:45	R1801868-012	Ca (227.547 nm)	906.4305 o (ppm)	0.80	906.4305 (ppm)	42773.1589

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:50:45	R1801868-012	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.8290
3/15/2018 19:50:45	R1801868-012	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.2887
3/15/2018 19:50:45	R1801868-012	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-4.4413
3/15/2018 19:50:45	R1801868-012	Cu (327.395 nm)	0.0016 (ppm)	10.52	0.0016 (ppm)	90.0521
3/15/2018 19:50:45	R1801868-012	Fe (234.350 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	14.1586
3/15/2018 19:50:45	R1801868-012	K (766.491 nm)	32.6517 (ppm)	0.88	32.6517 (ppm)	78068.6164
3/15/2018 19:50:45	R1801868-012	Mg (279.078 nm)	1.1469 (ppm)	0.67	1.1469 (ppm)	2107.8329
3/15/2018 19:50:45	R1801868-012	Mn (257.610 nm)	0.0010 (ppm)	2.39	0.0010 (ppm)	293.1331
3/15/2018 19:50:45	R1801868-012	Mo (202.032 nm)	0.0022 (ppm)	13.70	0.0022 (ppm)	24.3485
3/15/2018 19:50:45	R1801868-012	Na (588.995 nm)	230.2049 o (ppm)	0.98	230.2049 (ppm)	8019994.1966
3/15/2018 19:50:45	R1801868-012	Ni (230.299 nm)	-0.0021 u (ppm)	76.92	-0.0021 (ppm)	-36.2870
3/15/2018 19:50:45	R1801868-012	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.7704
3/15/2018 19:50:45	R1801868-012	Sb (217.582 nm)	0.0017 (ppm)	41.58	0.0017 (ppm)	1.9948
3/15/2018 19:50:45	R1801868-012	Se (196.026 nm)	-0.0053 u (ppm)	96.21	-0.0053 (ppm)	-1.1683
3/15/2018 19:50:45	R1801868-012	Sn (189.925 nm)	0.0011 (ppm)	82.47	0.0011 (ppm)	0.4489
3/15/2018 19:50:45	R1801868-012	Sr (216.596 nm)	5.0920 (ppm)	0.34	5.0920 (ppm)	65799.7219
3/15/2018 19:50:45	R1801868-012	Ti (336.122 nm)	0.0064 (ppm)	0.49	0.0064 (ppm)	458.4601
3/15/2018 19:50:45	R1801868-012	Tl (351.923 nm)	0.0279 (ppm)	16.74	0.0279 (ppm)	85.7473
3/15/2018 19:50:45	R1801868-012	V (292.401 nm)	0.0041 (ppm)	6.32	0.0041 (ppm)	260.6804
3/15/2018 19:50:45	R1801868-012	Y (360.074 nm)	0.91 (Ratio)	0.99	0.91 (Ratio)	679194.14
3/15/2018 19:50:45	R1801868-012	Y_R (360.074 nm)	0.91 (Ratio)	0.99	0.91 (Ratio)	679591.08
3/15/2018 19:50:45	R1801868-012	Zn (213.857 nm)	0.0093 (ppm)	1.63	0.0093 (ppm)	235.7709
3/15/2018 19:54:04	R1801868-013	Ag (328.068 nm)	-0.0002 u (ppm)	47.38	-0.0002 (ppm)	-109.9673
3/15/2018 19:54:04	R1801868-013	Al (394.401 nm)	0.1984 (ppm)	1.01	0.1984 (ppm)	2208.5477
3/15/2018 19:54:04	R1801868-013	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-3.0616
3/15/2018 19:54:04	R1801868-013	B (249.772 nm)	0.0032 (ppm)	1.94	0.0032 (ppm)	160.3390
3/15/2018 19:54:04	R1801868-013	Ba (230.424 nm)	0.2311 (ppm)	0.49	0.2311 (ppm)	6735.1168
3/15/2018 19:54:04	R1801868-013	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-580.6285
3/15/2018 19:54:04	R1801868-013	Ca (227.547 nm)	920.0647 o (ppm)	0.56	920.0647 (ppm)	43416.4433
3/15/2018 19:54:04	R1801868-013	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.3210
3/15/2018 19:54:04	R1801868-013	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.5952
3/15/2018 19:54:04	R1801868-013	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-7.2227
3/15/2018 19:54:04	R1801868-013	Cu (327.395 nm)	0.0017 (ppm)	6.10	0.0017 (ppm)	91.8901
3/15/2018 19:54:04	R1801868-013	Fe (234.350 nm)	0.0125 (ppm)	3.11	0.0125 (ppm)	140.4897
3/15/2018 19:54:04	R1801868-013	K (766.491 nm)	36.7051 (ppm)	0.62	36.7051 (ppm)	87760.5076
3/15/2018 19:54:04	R1801868-013	Mg (279.078 nm)	1.4737 (ppm)	0.78	1.4737 (ppm)	2710.0556
3/15/2018 19:54:04	R1801868-013	Mn (257.610 nm)	0.0156 (ppm)	0.32	0.0156 (ppm)	4301.2104
3/15/2018 19:54:04	R1801868-013	Mo (202.032 nm)	0.0032 (ppm)	18.33	0.0032 (ppm)	33.6966
3/15/2018 19:54:04	R1801868-013	Na (588.995 nm)	257.3234 o (ppm)	0.78	257.3234 (ppm)	8965760.3491
3/15/2018 19:54:04	R1801868-013	Ni (230.299 nm)	-0.0027 u (ppm)	27.70	-0.0027 (ppm)	-39.7985
3/15/2018 19:54:04	R1801868-013	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.4510
3/15/2018 19:54:04	R1801868-013	Sb (217.582 nm)	0.0021 (ppm)	88.69	0.0021 (ppm)	2.5383
3/15/2018 19:54:04	R1801868-013	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	3.0945
3/15/2018 19:54:04	R1801868-013	Sn (189.925 nm)	-0.0014 u (ppm)	76.50	-0.0014 (ppm)	-2.3239
3/15/2018 19:54:04	R1801868-013	Sr (216.596 nm)	4.9377 (ppm)	0.45	4.9377 (ppm)	63805.5902
3/15/2018 19:54:04	R1801868-013	Ti (336.122 nm)	0.0065 (ppm)	1.58	0.0065 (ppm)	475.6900
3/15/2018 19:54:04	R1801868-013	Tl (351.923 nm)	0.0222 (ppm)	20.62	0.0222 (ppm)	73.1164
3/15/2018 19:54:04	R1801868-013	V (292.401 nm)	0.0037 (ppm)	3.18	0.0037 (ppm)	247.8762
3/15/2018 19:54:04	R1801868-013	Y (360.074 nm)	0.91 (Ratio)	0.83	0.91 (Ratio)	680532.30
3/15/2018 19:54:04	R1801868-013	Y_R (360.074 nm)	0.92 (Ratio)	0.82	0.92 (Ratio)	680927.79
3/15/2018 19:54:04	R1801868-013	Zn (213.857 nm)	0.0021 (ppm)	1.14	0.0021 (ppm)	32.8065

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 19:57:23	R1801868-014	Ag (328.068 nm)	-0.0003 u (ppm)	86.65	-0.0003 (ppm)	-118.6422
3/15/2018 19:57:23	R1801868-014	Al (394.401 nm)	0.0958 (ppm)	1.32	0.0958 (ppm)	1124.7981
3/15/2018 19:57:23	R1801868-014	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-2.8208
3/15/2018 19:57:23	R1801868-014	B (249.772 nm)	0.0121 (ppm)	2.20	0.0121 (ppm)	400.0808
3/15/2018 19:57:23	R1801868-014	Ba (230.424 nm)	1.2197 (ppm)	0.12	1.2197 (ppm)	35517.7508
3/15/2018 19:57:23	R1801868-014	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.3703
3/15/2018 19:57:23	R1801868-014	Ca (227.547 nm)	3539.4655 o (ppm)	0.29	3539.4655 (ppm)	167004.1239
3/15/2018 19:57:23	R1801868-014	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	19.3855
3/15/2018 19:57:23	R1801868-014	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.9374
3/15/2018 19:57:23	R1801868-014	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-6.1513
3/15/2018 19:57:23	R1801868-014	Cu (327.395 nm)	0.0017 (ppm)	60.32	0.0017 (ppm)	91.5706
3/15/2018 19:57:23	R1801868-014	Fe (234.350 nm)	0.0205 (ppm)	3.42	0.0205 (ppm)	218.8688
3/15/2018 19:57:23	R1801868-014	K (766.491 nm)	118.0825 o (ppm)	0.33	118.0825 (ppm)	282340.9227
3/15/2018 19:57:23	R1801868-014	Mg (279.078 nm)	9.9449 (ppm)	0.13	9.9449 (ppm)	18319.2591
3/15/2018 19:57:23	R1801868-014	Mn (257.610 nm)	0.0153 (ppm)	0.14	0.0153 (ppm)	4208.6777
3/15/2018 19:57:23	R1801868-014	Mo (202.032 nm)	0.0023 (ppm)	33.47	0.0023 (ppm)	25.4691
3/15/2018 19:57:23	R1801868-014	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	###
3/15/2018 19:57:23	R1801868-014	Ni (230.299 nm)	-0.0029 u (ppm)	25.68	-0.0029 (ppm)	-41.0391
3/15/2018 19:57:23	R1801868-014	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.6817
3/15/2018 19:57:23	R1801868-014	Sb (217.582 nm)	0.0065 (ppm)	16.98	0.0065 (ppm)	8.1744
3/15/2018 19:57:23	R1801868-014	Se (196.026 nm)	-0.0094 u (ppm)	11.37	-0.0094 (ppm)	-4.2655
3/15/2018 19:57:23	R1801868-014	Sn (189.925 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-2.3710
3/15/2018 19:57:23	R1801868-014	Sr (216.596 nm)	12.1414 o (ppm)	0.17	12.1414 (ppm)	156898.0514
3/15/2018 19:57:23	R1801868-014	Ti (336.122 nm)	0.0237 (ppm)	0.86	0.0237 (ppm)	3445.6955
3/15/2018 19:57:23	R1801868-014	Tl (351.923 nm)	0.1232 (ppm)	3.50	0.1232 (ppm)	293.5019
3/15/2018 19:57:23	R1801868-014	V (292.401 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	144.2729
3/15/2018 19:57:23	R1801868-014	Y (360.074 nm)	0.80 (Ratio)	0.57	0.80 (Ratio)	593303.12
3/15/2018 19:57:23	R1801868-014	Y_R (360.074 nm)	0.80 (Ratio)	0.57	0.80 (Ratio)	593732.35
3/15/2018 19:57:23	R1801868-014	Zn (213.857 nm)	0.0146 (ppm)	0.86	0.0146 (ppm)	383.0324
3/15/2018 20:00:43	Continuing Calibration Verification	Ag (328.068 nm)	0.4770 (ppm)	0.44	0.4770 (ppm)	29280.9928
3/15/2018 20:00:43	Continuing Calibration Verification	Al (394.401 nm)	9.4655 (ppm)	0.31	9.4655 (ppm)	100120.1239
3/15/2018 20:00:43	Continuing Calibration Verification	As (188.980 nm)	1.0020 (ppm)	0.65	1.0020 (ppm)	867.2730
3/15/2018 20:00:43	Continuing Calibration Verification	B (249.772 nm)	2.4224 (ppm)	0.31	2.4224 (ppm)	64843.2083
3/15/2018 20:00:43	Continuing Calibration Verification	Ba (230.424 nm)	10.1873 (ppm)	0.37	10.1873 (ppm)	296596.6662
3/15/2018 20:00:43	Continuing Calibration Verification	Be (313.107 nm)	0.2497 (ppm)	0.15	0.2497 (ppm)	328315.7657
3/15/2018 20:00:43	Continuing Calibration Verification	Ca (227.547 nm)	23.7908 (ppm)	0.31	23.7908 (ppm)	1128.7538
3/15/2018 20:00:43	Continuing Calibration Verification	Cd (214.439 nm)	0.5078 (ppm)	0.29	0.5078 (ppm)	10516.4655
3/15/2018 20:00:43	Continuing Calibration Verification	Co (230.786 nm)	2.5453 (ppm)	0.39	2.5453 (ppm)	23530.5670
3/15/2018 20:00:43	Continuing Calibration Verification	Cr (267.716 nm)	0.5161 (ppm)	0.29	0.5161 (ppm)	22078.6598
3/15/2018 20:00:43	Continuing Calibration Verification	Cu (327.395 nm)	1.1959 (ppm)	0.35	1.1959 (ppm)	60263.6744
3/15/2018 20:00:43	Continuing Calibration Verification	Fe (234.350 nm)	4.9769 (ppm)	0.32	4.9769 (ppm)	48712.8531
3/15/2018 20:00:43	Continuing Calibration Verification	K (766.491 nm)	24.2981 (ppm)	0.47	24.2981 (ppm)	58094.3335
3/15/2018 20:00:43	Continuing Calibration Verification	Mg (279.078 nm)	24.7222 (ppm)	0.34	24.7222 (ppm)	45548.0566
3/15/2018 20:00:43	Continuing Calibration Verification	Mn (257.610 nm)	0.7594 (ppm)	0.28	0.7594 (ppm)	208326.8650
3/15/2018 20:00:43	Continuing Calibration Verification	Mo (202.032 nm)	2.4789 (ppm)	0.15	2.4789 (ppm)	22053.0063
3/15/2018 20:00:43	Continuing Calibration Verification	Na (588.995 nm)	24.5994 (ppm)	0.53	24.5994 (ppm)	849437.4798
3/15/2018 20:00:43	Continuing Calibration Verification	Ni (230.299 nm)	2.0511 (ppm)	0.48	2.0511 (ppm)	12875.3375
3/15/2018 20:00:43	Continuing Calibration Verification	Pb (220.353 nm)	0.5041 (ppm)	0.37	0.5041 (ppm)	1029.8694
3/15/2018 20:00:43	Continuing Calibration Verification	Sb (217.582 nm)	5.0483 (ppm)	0.72	5.0483 (ppm)	6441.4565
3/15/2018 20:00:43	Continuing Calibration Verification	Se (196.026 nm)	0.4954 (ppm)	0.26	0.4954 (ppm)	377.7016
3/15/2018 20:00:43	Continuing Calibration Verification	Sn (189.925 nm)	5.0835 (ppm)	0.58	5.0835 (ppm)	5754.0966

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:00:43	Continuing Calibration Verification	Sr (216.596 nm)	2.5204 (ppm)	0.35	2.5204 (ppm)	32567.9979
3/15/2018 20:00:43	Continuing Calibration Verification	Ti (336.122 nm)	2.4534 (ppm)	0.31	2.4534 (ppm)	421925.9279
3/15/2018 20:00:43	Continuing Calibration Verification	Tl (351.923 nm)	0.9978 (ppm)	0.73	0.9978 (ppm)	2200.8468
3/15/2018 20:00:43	Continuing Calibration Verification	V (292.401 nm)	2.4881 (ppm)	0.32	2.4881 (ppm)	76440.8056
3/15/2018 20:00:43	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	734469.72
3/15/2018 20:00:43	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	734749.19
3/15/2018 20:00:43	Continuing Calibration Verification	Zn (213.857 nm)	0.9654 (ppm)	0.35	0.9654 (ppm)	27161.1234
3/15/2018 20:04:03	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.1751
3/15/2018 20:04:03	Continuing Calibration Blank	Al (394.401 nm)	0.0055 (ppm)	6.39	0.0055 (ppm)	169.8411
3/15/2018 20:04:03	Continuing Calibration Blank	As (188.980 nm)	0.0024 (ppm)	82.72	0.0024 (ppm)	-2.2478
3/15/2018 20:04:03	Continuing Calibration Blank	B (249.772 nm)	0.0022 (ppm)	20.53	0.0022 (ppm)	133.5330
3/15/2018 20:04:03	Continuing Calibration Blank	Ba (230.424 nm)	0.0049 (ppm)	5.62	0.0049 (ppm)	148.0359
3/15/2018 20:04:03	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	1.54	0.0001 (ppm)	-419.2032
3/15/2018 20:04:03	Continuing Calibration Blank	Ca (227.547 nm)	-0.0295 u (ppm)	> 100.00	-0.0295 (ppm)	4.8704
3/15/2018 20:04:03	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	62.44	0.0002 (ppm)	21.2108
3/15/2018 20:04:03	Continuing Calibration Blank	Co (230.786 nm)	0.0011 (ppm)	25.02	0.0011 (ppm)	6.2515
3/15/2018 20:04:03	Continuing Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	36.23	0.0003 (ppm)	8.9547
3/15/2018 20:04:03	Continuing Calibration Blank	Cu (327.395 nm)	0.0005 (ppm)	10.42	0.0005 (ppm)	34.9795
3/15/2018 20:04:03	Continuing Calibration Blank	Fe (234.350 nm)	0.0036 (ppm)	3.24	0.0036 (ppm)	53.5868
3/15/2018 20:04:03	Continuing Calibration Blank	K (766.491 nm)	0.0205 (ppm)	29.16	0.0205 (ppm)	44.4727
3/15/2018 20:04:03	Continuing Calibration Blank	Mg (279.078 nm)	0.0125 (ppm)	5.40	0.0125 (ppm)	17.5839
3/15/2018 20:04:03	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	9.03	0.0004 (ppm)	112.1747
3/15/2018 20:04:03	Continuing Calibration Blank	Mo (202.032 nm)	0.0032 (ppm)	9.54	0.0032 (ppm)	33.1277
3/15/2018 20:04:03	Continuing Calibration Blank	Na (588.995 nm)	0.0265 (ppm)	8.57	0.0265 (ppm)	-7550.6056
3/15/2018 20:04:03	Continuing Calibration Blank	Ni (230.299 nm)	0.0014 (ppm)	33.32	0.0014 (ppm)	-14.1472
3/15/2018 20:04:03	Continuing Calibration Blank	Pb (220.353 nm)	-0.0015 u (ppm)	49.37	-0.0015 (ppm)	3.0229
3/15/2018 20:04:03	Continuing Calibration Blank	Sb (217.582 nm)	0.0056 (ppm)	35.99	0.0056 (ppm)	6.9702
3/15/2018 20:04:03	Continuing Calibration Blank	Se (196.026 nm)	0.0075 (ppm)	57.74	0.0075 (ppm)	8.5337
3/15/2018 20:04:03	Continuing Calibration Blank	Sn (189.925 nm)	0.0037 (ppm)	18.02	0.0037 (ppm)	3.3979
3/15/2018 20:04:03	Continuing Calibration Blank	Sr (216.596 nm)	0.0014 (ppm)	8.48	0.0014 (ppm)	15.6348
3/15/2018 20:04:03	Continuing Calibration Blank	Ti (336.122 nm)	0.0019 (ppm)	4.62	0.0019 (ppm)	-303.5514
3/15/2018 20:04:03	Continuing Calibration Blank	Tl (351.923 nm)	-0.0033 u (ppm)	8.45	-0.0033 (ppm)	17.6842
3/15/2018 20:04:03	Continuing Calibration Blank	V (292.401 nm)	0.0013 (ppm)	5.76	0.0013 (ppm)	172.8124
3/15/2018 20:04:03	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.75	1.02 (Ratio)	755706.95
3/15/2018 20:04:03	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.75	1.02 (Ratio)	755929.11
3/15/2018 20:04:03	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	15.18	0.0005 (ppm)	-14.3654
3/15/2018 20:07:22	R1801868-015	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-105.5764
3/15/2018 20:07:22	R1801868-015	Al (394.401 nm)	0.4126 (ppm)	0.47	0.4126 (ppm)	4471.1135
3/15/2018 20:07:22	R1801868-015	As (188.980 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-5.6402
3/15/2018 20:07:22	R1801868-015	B (249.772 nm)	0.0036 (ppm)	3.27	0.0036 (ppm)	171.9395
3/15/2018 20:07:22	R1801868-015	Ba (230.424 nm)	0.2813 (ppm)	0.74	0.2813 (ppm)	8196.9865
3/15/2018 20:07:22	R1801868-015	Be (313.107 nm)	0.0000 (ppm)	29.76	0.0000 (ppm)	-575.8253
3/15/2018 20:07:22	R1801868-015	Ca (227.547 nm)	537.5990 u (ppm)	0.27	537.5990 (ppm)	25371.0766
3/15/2018 20:07:22	R1801868-015	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.7956
3/15/2018 20:07:22	R1801868-015	Co (230.786 nm)	0.0029 (ppm)	8.55	0.0029 (ppm)	22.8553
3/15/2018 20:07:22	R1801868-015	Cr (267.716 nm)	0.0012 (ppm)	20.59	0.0012 (ppm)	47.4125
3/15/2018 20:07:22	R1801868-015	Cu (327.395 nm)	0.0086 (ppm)	0.53	0.0086 (ppm)	440.1329
3/15/2018 20:07:22	R1801868-015	Fe (234.350 nm)	0.0008 (ppm)	12.56	0.0008 (ppm)	25.9376
3/15/2018 20:07:22	R1801868-015	K (766.491 nm)	32.7448 (ppm)	0.19	32.7448 (ppm)	78291.1601
3/15/2018 20:07:22	R1801868-015	Mg (279.078 nm)	0.0035 (ppm)	41.86	0.0035 (ppm)	1.0259
3/15/2018 20:07:22	R1801868-015	Mn (257.610 nm)	0.0002 (ppm)	16.67	0.0002 (ppm)	64.5021

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:07:22	R1801868-015	Mo (202.032 nm)	0.0035 (ppm)	9.13	0.0035 (ppm)	35.8398
3/15/2018 20:07:22	R1801868-015	Na (588.995 nm)	35.7735 (ppm)	0.29	35.7735 (ppm)	1239137.0000
3/15/2018 20:07:22	R1801868-015	Ni (230.299 nm)	0.0026 (ppm)	43.23	0.0026 (ppm)	-6.9591
3/15/2018 20:07:22	R1801868-015	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.4872
3/15/2018 20:07:22	R1801868-015	Sb (217.582 nm)	0.0037 (ppm)	29.15	0.0037 (ppm)	4.5008
3/15/2018 20:07:22	R1801868-015	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	1.3672
3/15/2018 20:07:22	R1801868-015	Sn (189.925 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-2.6219
3/15/2018 20:07:22	R1801868-015	Sr (216.596 nm)	3.2744 (ppm)	0.43	3.2744 (ppm)	42311.2919
3/15/2018 20:07:22	R1801868-015	Ti (336.122 nm)	0.0043 (ppm)	1.81	0.0043 (ppm)	94.2362
3/15/2018 20:07:22	R1801868-015	Tl (351.923 nm)	0.0107 (ppm)	15.00	0.0107 (ppm)	48.2434
3/15/2018 20:07:22	R1801868-015	V (292.401 nm)	0.0008 (ppm)	19.43	0.0008 (ppm)	157.8156
3/15/2018 20:07:22	R1801868-015	Y (360.074 nm)	0.95 (Ratio)	0.50	0.95 (Ratio)	710061.07
3/15/2018 20:07:22	R1801868-015	Y_R (360.074 nm)	0.95 (Ratio)	0.49	0.95 (Ratio)	710411.24
3/15/2018 20:07:22	R1801868-015	Zn (213.857 nm)	0.0023 (ppm)	7.26	0.0023 (ppm)	36.9821
3/15/2018 20:10:41	R1801868-016	Ag (328.068 nm)	-0.0001 u (ppm)	26.92	-0.0001 (ppm)	-105.9727
3/15/2018 20:10:41	R1801868-016	Al (394.401 nm)	0.0611 (ppm)	2.59	0.0611 (ppm)	757.7072
3/15/2018 20:10:41	R1801868-016	As (188.980 nm)	0.0035 (ppm)	64.97	0.0035 (ppm)	-1.2745
3/15/2018 20:10:41	R1801868-016	B (249.772 nm)	0.0015 (ppm)	22.11	0.0015 (ppm)	115.2241
3/15/2018 20:10:41	R1801868-016	Ba (230.424 nm)	0.3450 (ppm)	0.36	0.3450 (ppm)	10050.2749
3/15/2018 20:10:41	R1801868-016	Be (313.107 nm)	0.0000 (ppm)	72.79	0.0000 (ppm)	-569.9171
3/15/2018 20:10:41	R1801868-016	Ca (227.547 nm)	853.7013 o (ppm)	0.15	853.7013 (ppm)	40285.3071
3/15/2018 20:10:41	R1801868-016	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.7213
3/15/2018 20:10:41	R1801868-016	Co (230.786 nm)	0.0028 (ppm)	19.93	0.0028 (ppm)	21.6727
3/15/2018 20:10:41	R1801868-016	Cr (267.716 nm)	0.0005 (ppm)	7.03	0.0005 (ppm)	17.2260
3/15/2018 20:10:41	R1801868-016	Cu (327.395 nm)	0.0062 (ppm)	2.20	0.0062 (ppm)	321.0103
3/15/2018 20:10:41	R1801868-016	Fe (234.350 nm)	0.0006 (ppm)	18.71	0.0006 (ppm)	23.9536
3/15/2018 20:10:41	R1801868-016	K (766.491 nm)	25.6126 (ppm)	0.22	25.6126 (ppm)	61237.3532
3/15/2018 20:10:41	R1801868-016	Mg (279.078 nm)	0.0107 (ppm)	5.83	0.0107 (ppm)	14.3021
3/15/2018 20:10:41	R1801868-016	Mn (257.610 nm)	0.0001 (ppm)	17.59	0.0001 (ppm)	36.1357
3/15/2018 20:10:41	R1801868-016	Mo (202.032 nm)	0.0036 (ppm)	4.08	0.0036 (ppm)	36.9025
3/15/2018 20:10:41	R1801868-016	Na (588.995 nm)	88.4286 o (ppm)	0.34	88.4286 (ppm)	3075500.3341
3/15/2018 20:10:41	R1801868-016	Ni (230.299 nm)	0.0041 (ppm)	34.64	0.0041 (ppm)	3.0906
3/15/2018 20:10:41	R1801868-016	Pb (220.353 nm)	0.0011 (ppm)	16.30	0.0011 (ppm)	8.3765
3/15/2018 20:10:41	R1801868-016	Sb (217.582 nm)	0.0032 (ppm)	> 100.00	0.0032 (ppm)	3.9462
3/15/2018 20:10:41	R1801868-016	Se (196.026 nm)	-0.0057 u (ppm)	66.43	-0.0057 (ppm)	-1.4848
3/15/2018 20:10:41	R1801868-016	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6434
3/15/2018 20:10:41	R1801868-016	Sr (216.596 nm)	4.4607 (ppm)	0.63	4.4607 (ppm)	57641.2493
3/15/2018 20:10:41	R1801868-016	Ti (336.122 nm)	0.0061 (ppm)	2.21	0.0061 (ppm)	414.3760
3/15/2018 20:10:41	R1801868-016	Tl (351.923 nm)	0.0219 (ppm)	16.10	0.0219 (ppm)	72.5465
3/15/2018 20:10:41	R1801868-016	V (292.401 nm)	0.0003 (ppm)	61.44	0.0003 (ppm)	142.2090
3/15/2018 20:10:41	R1801868-016	Y (360.074 nm)	0.94 (Ratio)	0.50	0.94 (Ratio)	696670.13
3/15/2018 20:10:41	R1801868-016	Y_R (360.074 nm)	0.94 (Ratio)	0.50	0.94 (Ratio)	697031.84
3/15/2018 20:10:41	R1801868-016	Zn (213.857 nm)	0.0013 (ppm)	10.50	0.0013 (ppm)	10.8232
3/15/2018 20:14:00	R1801868-017	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-103.1390
3/15/2018 20:14:00	R1801868-017	Al (394.401 nm)	0.0824 (ppm)	0.31	0.0824 (ppm)	982.5796
3/15/2018 20:14:00	R1801868-017	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-4.7124
3/15/2018 20:14:00	R1801868-017	B (249.772 nm)	0.0017 (ppm)	11.09	0.0017 (ppm)	119.7686
3/15/2018 20:14:00	R1801868-017	Ba (230.424 nm)	0.3137 (ppm)	0.92	0.3137 (ppm)	9140.1048
3/15/2018 20:14:00	R1801868-017	Be (313.107 nm)	0.0000 (ppm)	17.08	0.0000 (ppm)	-573.9764
3/15/2018 20:14:00	R1801868-017	Ca (227.547 nm)	798.8805 o (ppm)	0.68	798.8805 (ppm)	37698.7718
3/15/2018 20:14:00	R1801868-017	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.1126



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:14:00	R1801868-017	Co (230.786 nm)	0.0018 (ppm)	35.46	0.0018 (ppm)	12.6434
3/15/2018 20:14:00	R1801868-017	Cr (267.716 nm)	0.0011 (ppm)	1.81	0.0011 (ppm)	42.0328
3/15/2018 20:14:00	R1801868-017	Cu (327.395 nm)	0.0061 (ppm)	1.86	0.0061 (ppm)	315.6128
3/15/2018 20:14:00	R1801868-017	Fe (234.350 nm)	0.0286 (ppm)	1.15	0.0286 (ppm)	298.5121
3/15/2018 20:14:00	R1801868-017	K (766.491 nm)	25.4394 (ppm)	0.70	25.4394 (ppm)	60823.2698
3/15/2018 20:14:00	R1801868-017	Mg (279.078 nm)	0.0941 (ppm)	1.80	0.0941 (ppm)	167.8656
3/15/2018 20:14:00	R1801868-017	Mn (257.610 nm)	0.0017 (ppm)	1.15	0.0017 (ppm)	470.3425
3/15/2018 20:14:00	R1801868-017	Mo (202.032 nm)	0.0027 (ppm)	12.17	0.0027 (ppm)	29.1236
3/15/2018 20:14:00	R1801868-017	Na (588.995 nm)	70.3343 o (ppm)	0.84	70.3343 (ppm)	2444456.4909
3/15/2018 20:14:00	R1801868-017	Ni (230.299 nm)	0.0037 (ppm)	37.43	0.0037 (ppm)	0.2198
3/15/2018 20:14:00	R1801868-017	Pb (220.353 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	8.6118
3/15/2018 20:14:00	R1801868-017	Sb (217.582 nm)	0.0018 (ppm)	70.88	0.0018 (ppm)	2.1299
3/15/2018 20:14:00	R1801868-017	Se (196.026 nm)	-0.0056 u (ppm)	71.54	-0.0056 (ppm)	-1.3999
3/15/2018 20:14:00	R1801868-017	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.1485
3/15/2018 20:14:00	R1801868-017	Sr (216.596 nm)	3.4487 (ppm)	1.26	3.4487 (ppm)	44563.7415
3/15/2018 20:14:00	R1801868-017	Ti (336.122 nm)	0.0065 (ppm)	1.84	0.0065 (ppm)	475.0090
3/15/2018 20:14:00	R1801868-017	Tl (351.923 nm)	0.0227 (ppm)	10.49	0.0227 (ppm)	74.3300
3/15/2018 20:14:00	R1801868-017	V (292.401 nm)	0.0004 (ppm)	39.21	0.0004 (ppm)	145.4012
3/15/2018 20:14:00	R1801868-017	Y (360.074 nm)	0.94 (Ratio)	0.78	0.94 (Ratio)	696561.81
3/15/2018 20:14:00	R1801868-017	Y_R (360.074 nm)	0.94 (Ratio)	0.78	0.94 (Ratio)	696905.28
3/15/2018 20:14:00	R1801868-017	Zn (213.857 nm)	0.0015 (ppm)	6.11	0.0015 (ppm)	16.5262
3/15/2018 20:17:19	R1801868-018	Ag (328.068 nm)	-0.0002 u (ppm)	33.44	-0.0002 (ppm)	-109.4506
3/15/2018 20:17:19	R1801868-018	Al (394.401 nm)	0.3423 (ppm)	0.36	0.3423 (ppm)	3728.4615
3/15/2018 20:17:19	R1801868-018	As (188.980 nm)	0.0010 (ppm)	58.07	0.0010 (ppm)	-3.4377
3/15/2018 20:17:19	R1801868-018	B (249.772 nm)	0.0171 (ppm)	0.66	0.0171 (ppm)	533.5506
3/15/2018 20:17:19	R1801868-018	Ba (230.424 nm)	0.5744 (ppm)	0.75	0.5744 (ppm)	16729.5122
3/15/2018 20:17:19	R1801868-018	Be (313.107 nm)	0.0000 (ppm)	27.41	0.0000 (ppm)	-608.7445
3/15/2018 20:17:19	R1801868-018	Ca (227.547 nm)	1228.8224 o (ppm)	0.48	1228.8224 (ppm)	57984.1436
3/15/2018 20:17:19	R1801868-018	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.6086
3/15/2018 20:17:19	R1801868-018	Co (230.786 nm)	0.0010 (ppm)	45.53	0.0010 (ppm)	5.9290
3/15/2018 20:17:19	R1801868-018	Cr (267.716 nm)	-0.0001 u (ppm)	83.72	-0.0001 (ppm)	-9.6757
3/15/2018 20:17:19	R1801868-018	Cu (327.395 nm)	0.0119 (ppm)	1.00	0.0119 (ppm)	606.6596
3/15/2018 20:17:19	R1801868-018	Fe (234.350 nm)	0.0016 (ppm)	9.72	0.0016 (ppm)	34.1047
3/15/2018 20:17:19	R1801868-018	K (766.491 nm)	84.9356 o (ppm)	0.66	84.9356 (ppm)	203084.0367
3/15/2018 20:17:19	R1801868-018	Mg (279.078 nm)	0.3705 (ppm)	0.70	0.3705 (ppm)	677.3228
3/15/2018 20:17:19	R1801868-018	Mn (257.610 nm)	0.0020 (ppm)	0.31	0.0020 (ppm)	548.8537
3/15/2018 20:17:19	R1801868-018	Mo (202.032 nm)	0.0109 (ppm)	3.67	0.0109 (ppm)	102.4170
3/15/2018 20:17:19	R1801868-018	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/15/2018 20:17:19	R1801868-018	Ni (230.299 nm)	0.0139 (ppm)	4.58	0.0139 (ppm)	64.7085
3/15/2018 20:17:19	R1801868-018	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	3.9229
3/15/2018 20:17:19	R1801868-018	Sb (217.582 nm)	0.0043 (ppm)	29.06	0.0043 (ppm)	5.3347
3/15/2018 20:17:19	R1801868-018	Se (196.026 nm)	-0.0043 u (ppm)	> 100.00	-0.0043 (ppm)	-0.4566
3/15/2018 20:17:19	R1801868-018	Sn (189.925 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-2.2038
3/15/2018 20:17:19	R1801868-018	Sr (216.596 nm)	6.7243 o (ppm)	0.84	6.7243 (ppm)	86893.9524
3/15/2018 20:17:19	R1801868-018	Ti (336.122 nm)	0.0084 (ppm)	0.15	0.0084 (ppm)	800.2965
3/15/2018 20:17:19	R1801868-018	Tl (351.923 nm)	0.0381 (ppm)	8.59	0.0381 (ppm)	107.7973
3/15/2018 20:17:19	R1801868-018	V (292.401 nm)	0.0035 (ppm)	11.56	0.0035 (ppm)	240.2459
3/15/2018 20:17:19	R1801868-018	Y (360.074 nm)	0.86 (Ratio)	0.70	0.86 (Ratio)	636709.92
3/15/2018 20:17:19	R1801868-018	Y_R (360.074 nm)	0.86 (Ratio)	0.70	0.86 (Ratio)	637110.34
3/15/2018 20:17:19	R1801868-018	Zn (213.857 nm)	0.0016 (ppm)	10.03	0.0016 (ppm)	16.6353
3/15/2018 20:20:37	R1801868-019	Ag (328.068 nm)	-0.0001 u (ppm)	55.07	-0.0001 (ppm)	-106.1055

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:20:37	R1801868-019	Al (394.401 nm)	0.1087 (ppm)	1.00	0.1087 (ppm)	1260.2658
3/15/2018 20:20:37	R1801868-019	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-3.9696
3/15/2018 20:20:37	R1801868-019	B (249.772 nm)	0.0184 (ppm)	1.12	0.0184 (ppm)	567.1322
3/15/2018 20:20:37	R1801868-019	Ba (230.424 nm)	0.4036 (ppm)	0.70	0.4036 (ppm)	11755.8073
3/15/2018 20:20:37	R1801868-019	Be (313.107 nm)	0.0000 (ppm)	44.45	0.0000 (ppm)	-605.1558
3/15/2018 20:20:37	R1801868-019	C <sub>a</sub> (227.547 nm)	784.2988 o (ppm)	0.13	784.2988 (ppm)	37010.7827
3/15/2018 20:20:37	R1801868-019	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.2613
3/15/2018 20:20:37	R1801868-019	Co (230.786 nm)	0.0013 (ppm)	64.36	0.0013 (ppm)	7.7966
3/15/2018 20:20:37	R1801868-019	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.3960
3/15/2018 20:20:37	R1801868-019	Cu (327.395 nm)	0.0104 (ppm)	1.37	0.0104 (ppm)	532.1677
3/15/2018 20:20:37	R1801868-019	Fe (234.350 nm)	0.0067 (ppm)	6.84	0.0067 (ppm)	83.4874
3/15/2018 20:20:37	R1801868-019	K (766.491 nm)	58.0989 o (ppm)	0.19	58.0989 (ppm)	138915.0140
3/15/2018 20:20:37	R1801868-019	Mg (279.078 nm)	0.0628 (ppm)	3.17	0.0628 (ppm)	110.2419
3/15/2018 20:20:37	R1801868-019	Mn (257.610 nm)	0.0011 (ppm)	1.77	0.0011 (ppm)	323.5731
3/15/2018 20:20:37	R1801868-019	Mo (202.032 nm)	0.0077 (ppm)	7.08	0.0077 (ppm)	73.8419
3/15/2018 20:20:37	R1801868-019	Na (588.995 nm)	614.9886 o (ppm)	0.31	614.9886 (ppm)	21439446.9662
3/15/2018 20:20:37	R1801868-019	Ni (230.299 nm)	0.0207 (ppm)	1.04	0.0207 (ppm)	107.0402
3/15/2018 20:20:37	R1801868-019	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.1449
3/15/2018 20:20:37	R1801868-019	Sb (217.582 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	1.8312
3/15/2018 20:20:37	R1801868-019	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	2.1528
3/15/2018 20:20:37	R1801868-019	Sn (189.925 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-2.3460
3/15/2018 20:20:37	R1801868-019	Sr (216.596 nm)	4.9091 (ppm)	0.21	4.9091 (ppm)	63436.0785
3/15/2018 20:20:37	R1801868-019	Ti (336.122 nm)	0.0056 (ppm)	1.05	0.0056 (ppm)	322.2226
3/15/2018 20:20:37	R1801868-019	Ti (351.923 nm)	0.0178 (ppm)	12.32	0.0178 (ppm)	63.7099
3/15/2018 20:20:37	R1801868-019	V (292.401 nm)	0.0019 (ppm)	8.14	0.0019 (ppm)	192.6098
3/15/2018 20:20:37	R1801868-019	Y (360.074 nm)	0.90 (Ratio)	0.45	0.90 (Ratio)	669371.05
3/15/2018 20:20:37	R1801868-019	Y_R (360.074 nm)	0.90 (Ratio)	0.44	0.90 (Ratio)	669759.87
3/15/2018 20:20:37	R1801868-019	Zn (213.857 nm)	0.0015 (ppm)	1.55	0.0015 (ppm)	15.9287
3/15/2018 20:23:56	R1801868-020	Ag (328.068 nm)	-0.0003 u (ppm)	36.20	-0.0003 (ppm)	-114.3759
3/15/2018 20:23:56	R1801868-020	Al (394.401 nm)	0.1937 (ppm)	0.27	0.1937 (ppm)	2158.2840
3/15/2018 20:23:56	R1801868-020	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-2.8451
3/15/2018 20:23:56	R1801868-020	B (249.772 nm)	0.0068 (ppm)	2.50	0.0068 (ppm)	256.5116
3/15/2018 20:23:56	R1801868-020	Ba (230.424 nm)	0.1704 (ppm)	0.22	0.1704 (ppm)	4966.0328
3/15/2018 20:23:56	R1801868-020	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-577.4540
3/15/2018 20:23:56	R1801868-020	Ca (227.547 nm)	587.5302 o (ppm)	0.40	587.5302 (ppm)	27726.9129
3/15/2018 20:23:56	R1801868-020	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.1474
3/15/2018 20:23:56	R1801868-020	Co (230.786 nm)	0.0011 (ppm)	69.87	0.0011 (ppm)	6.2390
3/15/2018 20:23:56	R1801868-020	Cr (267.716 nm)	0.0010 (ppm)	7.04	0.0010 (ppm)	37.0577
3/15/2018 20:23:56	R1801868-020	Cu (327.395 nm)	0.0048 (ppm)	3.59	0.0048 (ppm)	252.2876
3/15/2018 20:23:56	R1801868-020	Fe (234.350 nm)	0.0020 (ppm)	3.78	0.0020 (ppm)	38.3185
3/15/2018 20:23:56	R1801868-020	K (766.491 nm)	25.9103 (ppm)	0.51	25.9103 (ppm)	61949.2224
3/15/2018 20:23:56	R1801868-020	Mg (279.078 nm)	0.0117 (ppm)	13.56	0.0117 (ppm)	16.0243
3/15/2018 20:23:56	R1801868-020	Mn (257.610 nm)	0.0001 (ppm)	28.94	0.0001 (ppm)	31.0124
3/15/2018 20:23:56	R1801868-020	Mo (202.032 nm)	0.0028 (ppm)	4.72	0.0028 (ppm)	30.1920
3/15/2018 20:23:56	R1801868-020	Na (588.995 nm)	94.1436 o (ppm)	0.49	94.1436 (ppm)	3274814.8617
3/15/2018 20:23:56	R1801868-020	Ni (230.299 nm)	0.0023 (ppm)	65.97	0.0023 (ppm)	-8.6212
3/15/2018 20:23:56	R1801868-020	Pb (220.353 nm)	-0.0006 u (ppm)	69.54	-0.0006 (ppm)	4.7869
3/15/2018 20:23:56	R1801868-020	Sb (217.582 nm)	0.0030 (ppm)	24.15	0.0030 (ppm)	3.6768
3/15/2018 20:23:56	R1801868-020	Se (196.026 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	0.7993
3/15/2018 20:23:56	R1801868-020	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.5611
3/15/2018 20:23:56	R1801868-020	Sr (216.596 nm)	3.0097 (ppm)	0.28	3.0097 (ppm)	38890.3059

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:23:56	R1801868-020	Ti (336.122 nm)	0.0044 (ppm)	1.84	0.0044 (ppm)	117.5558
3/15/2018 20:23:56	R1801868-020	Ti (351.923 nm)	0.0119 (ppm)	44.56	0.0119 (ppm)	50.8616
3/15/2018 20:23:56	R1801868-020	V (292.401 nm)	0.0008 (ppm)	45.71	0.0008 (ppm)	158.9581
3/15/2018 20:23:56	R1801868-020	Y (360.074 nm)	0.95 (Ratio)	0.52	0.95 (Ratio)	707030.21
3/15/2018 20:23:56	R1801868-020	Y_R (360.074 nm)	0.95 (Ratio)	0.53	0.95 (Ratio)	707397.07
3/15/2018 20:23:56	R1801868-020	Zn (213.857 nm)	0.0016 (ppm)	6.50	0.0016 (ppm)	19.3809
3/15/2018 20:27:14	Continuing Calibration Verification	Ag (328.068 nm)	0.4763 (ppm)	0.34	0.4763 (ppm)	29238.6875
3/15/2018 20:27:14	Continuing Calibration Verification	Al (394.401 nm)	9.4591 (ppm)	0.34	9.4591 (ppm)	100052.9874
3/15/2018 20:27:14	Continuing Calibration Verification	As (188.980 nm)	0.9943 (ppm)	0.27	0.9943 (ppm)	860.6153
3/15/2018 20:27:14	Continuing Calibration Verification	B (249.772 nm)	2.4178 (ppm)	0.27	2.4178 (ppm)	64720.0408
3/15/2018 20:27:14	Continuing Calibration Verification	Ba (230.424 nm)	10.1497 (ppm)	0.20	10.1497 (ppm)	295503.1472
3/15/2018 20:27:14	Continuing Calibration Verification	Be (313.107 nm)	0.2491 (ppm)	0.40	0.2491 (ppm)	327578.4265
3/15/2018 20:27:14	Continuing Calibration Verification	Ca (227.547 nm)	23.7722 (ppm)	0.20	23.7722 (ppm)	1127.8728
3/15/2018 20:27:14	Continuing Calibration Verification	Cd (214.439 nm)	0.5055 (ppm)	0.26	0.5055 (ppm)	10468.4450
3/15/2018 20:27:14	Continuing Calibration Verification	Co (230.786 nm)	2.5358 (ppm)	0.17	2.5358 (ppm)	23443.1686
3/15/2018 20:27:14	Continuing Calibration Verification	Cr (267.716 nm)	0.5138 (ppm)	0.21	0.5138 (ppm)	21980.5503
3/15/2018 20:27:14	Continuing Calibration Verification	Cu (327.395 nm)	1.1966 (ppm)	0.39	1.1966 (ppm)	60300.6204
3/15/2018 20:27:14	Continuing Calibration Verification	Fe (234.350 nm)	4.9565 (ppm)	0.23	4.9565 (ppm)	48513.7228
3/15/2018 20:27:14	Continuing Calibration Verification	K (766.491 nm)	24.3939 (ppm)	0.56	24.3939 (ppm)	58323.3388
3/15/2018 20:27:14	Continuing Calibration Verification	Mg (279.078 nm)	24.6186 (ppm)	0.35	24.6186 (ppm)	45357.1482
3/15/2018 20:27:14	Continuing Calibration Verification	Mn (257.610 nm)	0.7573 (ppm)	0.19	0.7573 (ppm)	207751.5027
3/15/2018 20:27:14	Continuing Calibration Verification	Mo (202.032 nm)	2.4738 (ppm)	0.11	2.4738 (ppm)	22007.5096
3/15/2018 20:27:14	Continuing Calibration Verification	Na (588.995 nm)	24.7208 (ppm)	0.74	24.7208 (ppm)	853671.5881
3/15/2018 20:27:14	Continuing Calibration Verification	Ni (230.299 nm)	2.0375 (ppm)	0.31	2.0375 (ppm)	12790.3249
3/15/2018 20:27:14	Continuing Calibration Verification	Pb (220.353 nm)	0.5030 (ppm)	0.32	0.5030 (ppm)	1027.6955
3/15/2018 20:27:14	Continuing Calibration Verification	Sb (217.582 nm)	5.0346 (ppm)	0.54	5.0346 (ppm)	6423.9981
3/15/2018 20:27:14	Continuing Calibration Verification	Se (196.026 nm)	0.4938 (ppm)	1.63	0.4938 (ppm)	376.5136
3/15/2018 20:27:14	Continuing Calibration Verification	Sn (189.925 nm)	5.0450 (ppm)	0.58	5.0450 (ppm)	5710.4974
3/15/2018 20:27:14	Continuing Calibration Verification	Sr (216.596 nm)	2.5032 (ppm)	0.08	2.5032 (ppm)	32345.7401
3/15/2018 20:27:14	Continuing Calibration Verification	Ti (336.122 nm)	2.4467 (ppm)	0.25	2.4467 (ppm)	420773.0726
3/15/2018 20:27:14	Continuing Calibration Verification	Ti (351.923 nm)	0.9955 (ppm)	0.90	0.9955 (ppm)	2195.7811
3/15/2018 20:27:14	Continuing Calibration Verification	V (292.401 nm)	2.4827 (ppm)	0.13	2.4827 (ppm)	76275.3392
3/15/2018 20:27:14	Continuing Calibration Verification	Y (360.074 nm)	1.00 (Ratio)	0.69	1.00 (Ratio)	742319.45
3/15/2018 20:27:14	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	0.69	1.00 (Ratio)	742594.14
3/15/2018 20:27:14	Continuing Calibration Verification	Zn (213.857 nm)	0.9622 (ppm)	0.31	0.9622 (ppm)	27072.5503
3/15/2018 20:30:33	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-92.1845
3/15/2018 20:30:33	Continuing Calibration Blank	Al (394.401 nm)	0.0062 (ppm)	8.04	0.0062 (ppm)	178.1138
3/15/2018 20:30:33	Continuing Calibration Blank	As (188.980 nm)	0.0038 (ppm)	82.45	0.0038 (ppm)	-0.9891
3/15/2018 20:30:33	Continuing Calibration Blank	B (249.772 nm)	0.0019 (ppm)	10.95	0.0019 (ppm)	125.6422
3/15/2018 20:30:33	Continuing Calibration Blank	Ba (230.424 nm)	0.0050 (ppm)	2.98	0.0050 (ppm)	152.6903
3/15/2018 20:30:33	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	4.47	0.0001 (ppm)	-404.0790
3/15/2018 20:30:33	Continuing Calibration Blank	Ca (227.547 nm)	0.0695 (ppm)	58.21	0.0695 (ppm)	9.5394
3/15/2018 20:30:33	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	17.40	0.0001 (ppm)	20.0712
3/15/2018 20:30:33	Continuing Calibration Blank	Co (230.786 nm)	0.0012 (ppm)	7.43	0.0012 (ppm)	7.2744
3/15/2018 20:30:33	Continuing Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	33.42	0.0003 (ppm)	6.6273
3/15/2018 20:30:33	Continuing Calibration Blank	Cu (327.395 nm)	0.0008 (ppm)	3.66	0.0008 (ppm)	49.7985
3/15/2018 20:30:33	Continuing Calibration Blank	Fe (234.350 nm)	0.0037 (ppm)	14.17	0.0037 (ppm)	54.3097
3/15/2018 20:30:33	Continuing Calibration Blank	K (766.491 nm)	0.0236 (ppm)	8.77	0.0236 (ppm)	52.0484
3/15/2018 20:30:33	Continuing Calibration Blank	Mg (279.078 nm)	0.0126 (ppm)	9.11	0.0126 (ppm)	17.7672
3/15/2018 20:30:33	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	5.03	0.0004 (ppm)	119.3206
3/15/2018 20:30:33	Continuing Calibration Blank	Mo (202.032 nm)	0.0031 (ppm)	6.78	0.0031 (ppm)	32.4550

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:30:33	Continuing Calibration Blank	Na (588.995 nm)	0.0275 (ppm)	3.43	0.0275 (ppm)	-7514.7227
3/15/2018 20:30:33	Continuing Calibration Blank	Ni (230.299 nm)	0.0014 (ppm)	49.46	0.0014 (ppm)	-14.1772
3/15/2018 20:30:33	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.8732
3/15/2018 20:30:33	Continuing Calibration Blank	Sb (217.582 nm)	0.0055 (ppm)	17.29	0.0055 (ppm)	6.8959
3/15/2018 20:30:33	Continuing Calibration Blank	Se (196.026 nm)	0.0028 (ppm)	44.91	0.0028 (ppm)	4.9725
3/15/2018 20:30:33	Continuing Calibration Blank	Sn (189.925 nm)	0.0034 (ppm)	24.80	0.0034 (ppm)	3.0423
3/15/2018 20:30:33	Continuing Calibration Blank	Sr (216.596 nm)	0.0012 (ppm)	14.47	0.0012 (ppm)	12.6130
3/15/2018 20:30:33	Continuing Calibration Blank	Ti (336.122 nm)	0.0020 (ppm)	4.75	0.0020 (ppm)	-289.3582
3/15/2018 20:30:33	Continuing Calibration Blank	Tl (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	28.5584
3/15/2018 20:30:33	Continuing Calibration Blank	V (292.401 nm)	0.0014 (ppm)	8.57	0.0014 (ppm)	175.1711
3/15/2018 20:30:33	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.70	1.02 (Ratio)	757970.38
3/15/2018 20:30:33	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.70	1.02 (Ratio)	758170.34
3/15/2018 20:30:33	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	11.96	0.0005 (ppm)	-13.8150
3/15/2018 20:33:52	Contract Required Detection Limit	Ag (328.068 nm)	-0.0002 Ru (ppm)	41.23	-0.0002 (ppm)	-107.2486 R
3/15/2018 20:33:52	Contract Required Detection Limit	Al (394.401 nm)	-0.0025 Ru (ppm)	20.64	-0.0025 (ppm)	85.5841 R
3/15/2018 20:33:52	Contract Required Detection Limit	As (188.980 nm)	0.0045 R (ppm)	5.76	0.0045 (ppm)	-0.4238 R
3/15/2018 20:33:52	Contract Required Detection Limit	B (249.772 nm)	-0.0022 Ru (ppm)	5.03	-0.0022 (ppm)	16.4969 R
3/15/2018 20:33:52	Contract Required Detection Limit	Ba (230.424 nm)	-0.0002 Ru (ppm)	38.05	-0.0002 (ppm)	-0.5175 R
3/15/2018 20:33:52	Contract Required Detection Limit	Be (313.107 nm)	0.0003 R (ppm)	2.44	0.0003 (ppm)	-168.8881 R
3/15/2018 20:33:52	Contract Required Detection Limit	Ca (227.547 nm)	-0.0868 Ru (ppm)	18.54	-0.0868 (ppm)	2.1675 R
3/15/2018 20:33:52	Contract Required Detection Limit	Cd (214.439 nm)	-0.0003 Ru (ppm)	34.07	-0.0003 (ppm)	11.3488 R
3/15/2018 20:33:52	Contract Required Detection Limit	Co (230.786 nm)	0.0003 R (ppm)	42.48	0.0003 (ppm)	-0.9369 R
3/15/2018 20:33:52	Contract Required Detection Limit	Cr (267.716 nm)	0.0001 R (ppm)	> 100.00	0.0001 (ppm)	0.4056 R
3/15/2018 20:33:52	Contract Required Detection Limit	Cu (327.395 nm)	0.0001 Ru (ppm)	> 100.00	0.0001 (ppm)	11.9954 R
3/15/2018 20:33:52	Contract Required Detection Limit	Fe (234.350 nm)	-0.0004 Ru (ppm)	> 100.00	-0.0004 (ppm)	14.3816 R
3/15/2018 20:33:52	Contract Required Detection Limit	K (766.491 nm)	0.0151 R (ppm)	1.58	0.0151 (ppm)	11.2265 R
3/15/2018 20:33:52	Contract Required Detection Limit	Mg (279.078 nm)	0.0031 R (ppm)	59.57	0.0031 (ppm)	0.1933 R
3/15/2018 20:33:52	Contract Required Detection Limit	Mn (257.610 nm)	0.0001 R (ppm)	> 100.00	0.0001 (ppm)	28.9485 R
3/15/2018 20:33:52	Contract Required Detection Limit	Mo (202.032 nm)	-0.0002 Ru (ppm)	> 100.00	-0.0002 (ppm)	1.0488 R
3/15/2018 20:33:52	Contract Required Detection Limit	Na (588.995 nm)	0.0846 R (ppm)	41.34	0.0846 (ppm)	-5524.6939 R
3/15/2018 20:33:52	Contract Required Detection Limit	Ni (230.299 nm)	0.0019 R (ppm)	3.33	0.0019 (ppm)	-11.0021 R
3/15/2018 20:33:52	Contract Required Detection Limit	Pb (220.353 nm)	-0.0012 Ru (ppm)	56.01	-0.0012 (ppm)	3.5830 R
3/15/2018 20:33:52	Contract Required Detection Limit	Sb (217.582 nm)	0.0002 Ru (ppm)	> 100.00	0.0002 (ppm)	0.0277 R
3/15/2018 20:33:52	Contract Required Detection Limit	Se (196.026 nm)	-0.0001 Ru (ppm)	> 100.00	-0.0001 (ppm)	2.7323 R
3/15/2018 20:33:52	Contract Required Detection Limit	Sn (189.925 nm)	0.0008 R (ppm)	73.62	0.0008 (ppm)	0.1293 R
3/15/2018 20:33:52	Contract Required Detection Limit	Sr (216.596 nm)	0.0001 R (ppm)	> 100.00	0.0001 (ppm)	-2.1252 R
3/15/2018 20:33:52	Contract Required Detection Limit	Ti (336.122 nm)	0.0007 R (ppm)	9.09	0.0007 (ppm)	-518.8198 R
3/15/2018 20:33:52	Contract Required Detection Limit	Tl (351.923 nm)	-0.0036 Ru (ppm)	31.54	-0.0036 (ppm)	16.9710 R
3/15/2018 20:33:52	Contract Required Detection Limit	V (292.401 nm)	-0.0015 Ru (ppm)	5.79	-0.0015 (ppm)	87.0732 R
3/15/2018 20:33:52	Contract Required Detection Limit	Y (360.074 nm)	1.75 (Ratio)	2.96	1.75 (Ratio)	1302825.19
3/15/2018 20:33:52	Contract Required Detection Limit	Y_R (360.074 nm)	1.75 (Ratio)	2.95	1.75 (Ratio)	1302909.87
3/15/2018 20:33:52	Contract Required Detection Limit	Zn (213.857 nm)	0.0003 R (ppm)	28.71	0.0003 (ppm)	-19.2187 R
3/15/2018 20:37:11	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u (ppm)	52.19	0.0002 (ppm)	-107.7228
3/15/2018 20:37:11	Interference Check Solution A	Al (394.401 nm)	-0.0030 u (ppm)	28.97	0.0030 (ppm)	80.8837
3/15/2018 20:37:11	Interference Check Solution A	As (188.980 nm)	0.0052 K (ppm)	14.77	0.0052 (ppm)	0.2111 K
3/15/2018 20:37:11	Interference Check Solution A	B (249.772 nm)	-0.0024 u (ppm)	7.31	0.0024 (ppm)	12.5484
3/15/2018 20:37:11	Interference Check Solution A	Ba (230.424 nm)	-0.0002 u (ppm)	16.92	0.0002 (ppm)	-0.8099
3/15/2018 20:37:11	Interference Check Solution A	Be (313.107 nm)	0.0003 (ppm)	1.86	0.0003 (ppm)	-169.1114
3/15/2018 20:37:11	Interference Check Solution A	Ca (227.547 nm)	-0.0992 u (ppm)	27.00	0.0992 (ppm)	1.5840
3/15/2018 20:37:11	Interference Check Solution A	Cd (214.439 nm)	-0.0004 u (ppm)	22.36	-0.0004 (ppm)	9.5609
3/15/2018 20:37:11	Interference Check Solution A	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.3145

WRONG CUP  
SEE END OF CR71618

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:37:11	Interference Check Solution A	Cr (267.716 nm)	0.0001 (ppm)	78.28	0.0001 (ppm)	-0.0666
3/15/2018 20:37:11	Interference Check Solution A	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.7361
3/15/2018 20:37:11	Interference Check Solution A	Fe (234.350 nm)	-0.0016 u (ppm)	9.14	0.0016 (ppm)	2.8871
3/15/2018 20:37:11	Interference Check Solution A	K (766.491 nm)	0.0165 (ppm)	11.51	0.0165 (ppm)	35.0545
3/15/2018 20:37:11	Interference Check Solution A	Mg (279.078 nm)	0.0013 (ppm)	4.84	0.0013 (ppm)	-3.0759
3/15/2018 20:37:11	Interference Check Solution A	Mn (257.610 nm)	0.0000 (ppm)	15.95	0.0000 (ppm)	3.4299
3/15/2018 20:37:11	Interference Check Solution A	Mo (202.032 nm)	-0.0003 u (ppm)	35.34	-0.0003 (ppm)	2.2961
3/15/2018 20:37:11	Interference Check Solution A	Na (588.995 nm)	0.0672 (ppm)	4.64	0.0672 (ppm)	-6129.7029
3/15/2018 20:37:11	Interference Check Solution A	Ni (230.299 nm)	0.0020 (ppm)	16.81	0.0020 (ppm)	-10.5187
3/15/2018 20:37:11	Interference Check Solution A	Pb (220.353 nm)	-0.0015 u (ppm)	26.33	-0.0015 (ppm)	3.0356
3/15/2018 20:37:11	Interference Check Solution A	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.4067
3/15/2018 20:37:11	Interference Check Solution A	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	2.1407
3/15/2018 20:37:11	Interference Check Solution A	Sn (189.925 nm)	0.0005 (ppm)	42.21	0.0005 (ppm)	-0.2051
3/15/2018 20:37:11	Interference Check Solution A	Sr (216.596 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-2.4922
3/15/2018 20:37:11	Interference Check Solution A	Ti (336.122 nm)	0.0007 (ppm)	10.67	0.0007 (ppm)	-518.3740
3/15/2018 20:37:11	Interference Check Solution A	Tl (351.923 nm)	-0.0029 u (ppm)	23.88	-0.0029 (ppm)	18.4727
3/15/2018 20:37:11	Interference Check Solution A	V (292.401 nm)	-0.0017 u (ppm)	6.39	-0.0017 (ppm)	3.1159
3/15/2018 20:37:11	Interference Check Solution A	Y (360.074 nm)	1.77 (Ratio)	2.81	1.77 (Ratio)	1318153.15
3/15/2018 20:37:11	Interference Check Solution A	Y_R (360.074 nm)	1.77 (Ratio)	2.81	1.77 (Ratio)	1318153.15
3/15/2018 20:37:11	Interference Check Solution A	Zn (213.857 nm)	0.0003 (ppm)	6.03	0.0003 (ppm)	1.8833
3/15/2018 20:40:30	Interference Check Solution AB	Ag (328.068 nm)	-0.0002 Gu (ppm)	49.17	-0.0002 (ppm)	-107.6216 G
3/15/2018 20:40:30	Interference Check Solution AB	Al (394.401 nm)	-0.0031 Gu (ppm)	8.77	-0.0031 (ppm)	79.3331 G
3/15/2018 20:40:30	Interference Check Solution AB	As (188.980 nm)	0.0044 G (ppm)	36.55	0.0044 (ppm)	-0.4804 G
3/15/2018 20:40:30	Interference Check Solution AB	B (249.772 nm)	-0.0024 u (ppm)	6.62	-0.0024 (ppm)	11.7315
3/15/2018 20:40:30	Interference Check Solution AB	Ba (230.424 nm)	-0.0003 Gu (ppm)	14.20	-0.0003 (ppm)	-2.8022 G
3/15/2018 20:40:30	Interference Check Solution AB	Be (313.107 nm)	0.0003 G (ppm)	0.45	0.0003 (ppm)	-173.1971 G
3/15/2018 20:40:30	Interference Check Solution AB	Ca (227.547 nm)	-0.0700 Gu (ppm)	50.83	-0.0700 (ppm)	2.9620 G
3/15/2018 20:40:30	Interference Check Solution AB	Cd (214.439 nm)	-0.0004 Gu (ppm)	14.18	-0.0004 (ppm)	9.7254 G
3/15/2018 20:40:30	Interference Check Solution AB	Co (230.786 nm)	0.0001 Gu (ppm)	> 100.00	0.0001 (ppm)	-2.4460 G
3/15/2018 20:40:30	Interference Check Solution AB	Cr (267.716 nm)	0.0001 G (ppm)	85.74	0.0001 (ppm)	1.2592 G
3/15/2018 20:40:30	Interference Check Solution AB	Cu (327.395 nm)	-0.0001 Gu (ppm)	42.64	-0.0001 (ppm)	3.6185 G
3/15/2018 20:40:30	Interference Check Solution AB	Fe (234.350 nm)	-0.0016 Gu (ppm)	6.07	-0.0016 (ppm)	2.3525 G
3/15/2018 20:40:30	Interference Check Solution AB	K (766.491 nm)	0.0085 (ppm)	77.15	0.0085 (ppm)	15.8513
3/15/2018 20:40:30	Interference Check Solution AB	Mg (279.078 nm)	0.0010 Gu (ppm)	> 100.00	0.0010 (ppm)	-3.5681 G
3/15/2018 20:40:30	Interference Check Solution AB	Mn (257.610 nm)	0.0000 G (ppm)	12.67	0.0000 (ppm)	4.3545 G
3/15/2018 20:40:30	Interference Check Solution AB	Mo (202.032 nm)	-0.0003 u (ppm)	50.55	-0.0003 (ppm)	2.6942
3/15/2018 20:40:30	Interference Check Solution AB	Na (588.995 nm)	0.0698 (ppm)	4.90	0.0698 (ppm)	-6038.9631
3/15/2018 20:40:30	Interference Check Solution AB	Ni (230.299 nm)	0.0020 G (ppm)	22.89	0.0020 (ppm)	-10.3403 G
3/15/2018 20:40:30	Interference Check Solution AB	Pb (220.353 nm)	-0.0014 Gu (ppm)	52.76	-0.0014 (ppm)	3.3127 G
3/15/2018 20:40:30	Interference Check Solution AB	Sb (217.582 nm)	-0.0007 Gu (ppm)	79.47	-0.0007 (ppm)	-1.0275 G
3/15/2018 20:40:30	Interference Check Solution AB	Se (196.026 nm)	-0.0010 Gu (ppm)	> 100.00	-0.0010 (ppm)	2.0406 G
3/15/2018 20:40:30	Interference Check Solution AB	Sn (189.925 nm)	0.0004 (ppm)	52.64	0.0004 (ppm)	-0.3686
3/15/2018 20:40:30	Interference Check Solution AB	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.6933
3/15/2018 20:40:30	Interference Check Solution AB	Ti (336.122 nm)	0.0006 (ppm)	8.61	0.0006 (ppm)	-528.6113
3/15/2018 20:40:30	Interference Check Solution AB	Tl (351.923 nm)	-0.0058 Gu (ppm)	20.16	-0.0058 (ppm)	12.1362 G
3/15/2018 20:40:30	Interference Check Solution AB	V (292.401 nm)	-0.0015 Gu (ppm)	7.18	-0.0015 (ppm)	86.4687 G
3/15/2018 20:40:30	Interference Check Solution AB	Y (360.074 nm)	1.77 (Ratio)	2.81	1.77 (Ratio)	1315286.80
3/15/2018 20:40:30	Interference Check Solution AB	Y_R (360.074 nm)	1.77 (Ratio)	2.81	1.77 (Ratio)	1315394.95
3/15/2018 20:40:30	Interference Check Solution AB	Zn (213.857 nm)	0.0003 G (ppm)	8.52	0.0003 (ppm)	-18.1069 G
3/15/2018 20:43:49	Continuing Calibration Verification	Ag (328.068 nm)	0.4796 (ppm)	0.22	0.4796 (ppm)	29441.7988
3/15/2018 20:43:49	Continuing Calibration Verification	Al (394.401 nm)	9.5040 (ppm)	0.11	9.5040 (ppm)	100527.5146

WRONG CUP  
SEE END  
OF RUN  
02/3/16/18

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:43:49	Continuing Calibration Verification	As (188.980 nm)	0.9976 (ppm)	0.27	0.9976 (ppm)	863.4794
3/15/2018 20:43:49	Continuing Calibration Verification	B (249.772 nm)	2.4346 (ppm)	0.15	2.4346 (ppm)	65170.0143
3/15/2018 20:43:49	Continuing Calibration Verification	Ba (230.424 nm)	10.1960 (ppm)	0.28	10.1960 (ppm)	296849.6692
3/15/2018 20:43:49	Continuing Calibration Verification	Be (313.107 nm)	0.2509 (ppm)	0.43	0.2509 (ppm)	329900.6225
3/15/2018 20:43:49	Continuing Calibration Verification	Ca (227.547 nm)	24.0404 (ppm)	0.51	24.0404 (ppm)	1140.5302
3/15/2018 20:43:49	Continuing Calibration Verification	Cd (214.439 nm)	0.5086 (ppm)	0.20	0.5086 (ppm)	10531.4415
3/15/2018 20:43:49	Continuing Calibration Verification	Co (230.786 nm)	2.5551 (ppm)	0.16	2.5551 (ppm)	23621.7017
3/15/2018 20:43:49	Continuing Calibration Verification	Cr (267.716 nm)	0.5172 (ppm)	0.15	0.5172 (ppm)	22123.2525
3/15/2018 20:43:49	Continuing Calibration Verification	Cu (327.395 nm)	1.2035 (ppm)	0.18	1.2035 (ppm)	60648.4820
3/15/2018 20:43:49	Continuing Calibration Verification	Fe (234.350 nm)	4.9917 (ppm)	0.18	4.9917 (ppm)	48857.6687
3/15/2018 20:43:49	Continuing Calibration Verification	K (766.491 nm)	24.5155 (ppm)	0.23	24.5155 (ppm)	58614.3084
3/15/2018 20:43:49	Continuing Calibration Verification	Mg (279.078 nm)	24.7903 (ppm)	0.22	24.7903 (ppm)	45673.6067
3/15/2018 20:43:49	Continuing Calibration Verification	Mn (257.610 nm)	0.7626 (ppm)	0.09	0.7626 (ppm)	209194.2014
3/15/2018 20:43:49	Continuing Calibration Verification	Mo (202.032 nm)	2.4891 (ppm)	0.04	2.4891 (ppm)	22143.7470
3/15/2018 20:43:49	Continuing Calibration Verification	Na (588.995 nm)	24.8902 (ppm)	0.53	24.8902 (ppm)	859579.2922
3/15/2018 20:43:49	Continuing Calibration Verification	Ni (230.299 nm)	2.0525 (ppm)	0.25	2.0525 (ppm)	12884.1578
3/15/2018 20:43:49	Continuing Calibration Verification	Pb (220.353 nm)	0.5013 (ppm)	0.34	0.5013 (ppm)	1024.1483
3/15/2018 20:43:49	Continuing Calibration Verification	Sb (217.582 nm)	5.0666 (ppm)	0.29	5.0666 (ppm)	6464.7703
3/15/2018 20:43:49	Continuing Calibration Verification	Se (196.026 nm)	0.4982 (ppm)	1.38	0.4982 (ppm)	379.8558
3/15/2018 20:43:49	Continuing Calibration Verification	Sn (189.925 nm)	5.0745 (ppm)	0.30	5.0745 (ppm)	5743.8290
3/15/2018 20:43:49	Continuing Calibration Verification	Sr (216.596 nm)	2.5200 (ppm)	0.45	2.5200 (ppm)	32562.5974
3/15/2018 20:43:49	Continuing Calibration Verification	Ti (336.122 nm)	2.4620 (ppm)	0.22	2.4620 (ppm)	423395.8208
3/15/2018 20:43:49	Continuing Calibration Verification	Ti (351.923 nm)	0.9966 (ppm)	0.25	0.9966 (ppm)	2198.2943
3/15/2018 20:43:49	Continuing Calibration Verification	V (292.401 nm)	2.4994 (ppm)	0.07	2.4994 (ppm)	76785.7215
3/15/2018 20:43:49	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.75	0.99 (Ratio)	736728.07
3/15/2018 20:43:49	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.75	0.99 (Ratio)	737002.88
3/15/2018 20:43:49	Continuing Calibration Verification	Zn (213.857 nm)	0.9696 (ppm)	0.17	0.9696 (ppm)	27280.6437
3/15/2018 20:47:08	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-93.9825
3/15/2018 20:47:08	Continuing Calibration Blank	Al (394.401 nm)	0.0063 (ppm)	12.17	0.0063 (ppm)	178.5906
3/15/2018 20:47:08	Continuing Calibration Blank	As (188.980 nm)	0.0021 (ppm)	66.04	0.0021 (ppm)	-2.4806
3/15/2018 20:47:08	Continuing Calibration Blank	B (249.772 nm)	0.0023 (ppm)	8.37	0.0023 (ppm)	138.0385
3/15/2018 20:47:08	Continuing Calibration Blank	Ba (230.424 nm)	0.0054 (ppm)	0.68	0.0054 (ppm)	162.1781
3/15/2018 20:47:08	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	1.47	0.0001 (ppm)	-393.9145
3/15/2018 20:47:08	Continuing Calibration Blank	Ca (227.547 nm)	0.0036 u (ppm)	> 100.00	0.0036 (ppm)	6.4313
3/15/2018 20:47:08	Continuing Calibration Blank	Cd (214.439 nm)	0.0003 (ppm)	7.33	0.0003 (ppm)	22.4168
3/15/2018 20:47:08	Continuing Calibration Blank	Co (230.786 nm)	0.0010 (ppm)	33.11	0.0010 (ppm)	5.0780
3/15/2018 20:47:08	Continuing Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	38.64	0.0003 (ppm)	9.4715
3/15/2018 20:47:08	Continuing Calibration Blank	Cu (327.395 nm)	0.0006 (ppm)	22.28	0.0006 (ppm)	37.4260
3/15/2018 20:47:08	Continuing Calibration Blank	Fe (234.350 nm)	0.0039 (ppm)	4.27	0.0039 (ppm)	56.8447
3/15/2018 20:47:08	Continuing Calibration Blank	K (766.491 nm)	0.0187 (ppm)	34.66	0.0187 (ppm)	40.3201
3/15/2018 20:47:08	Continuing Calibration Blank	Mg (279.078 nm)	0.0139 (ppm)	0.96	0.0139 (ppm)	20.2446
3/15/2018 20:47:08	Continuing Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	6.17	0.0004 (ppm)	126.9606
3/15/2018 20:47:08	Continuing Calibration Blank	Mo (202.032 nm)	0.0036 (ppm)	8.98	0.0036 (ppm)	37.3174
3/15/2018 20:47:08	Continuing Calibration Blank	Na (588.995 nm)	0.0232 (ppm)	5.90	0.0232 (ppm)	-7665.0783
3/15/2018 20:47:08	Continuing Calibration Blank	Ni (230.299 nm)	0.0016 (ppm)	34.54	0.0016 (ppm)	-12.6741
3/15/2018 20:47:08	Continuing Calibration Blank	Pb (220.353 nm)	-0.0009 u (ppm)	94.05	-0.0009 (ppm)	4.1917
3/15/2018 20:47:08	Continuing Calibration Blank	Sb (217.582 nm)	0.0041 (ppm)	11.79	0.0041 (ppm)	5.0812
3/15/2018 20:47:08	Continuing Calibration Blank	Se (196.026 nm)	0.0031 (ppm)	> 100.00	0.0031 (ppm)	5.1451
3/15/2018 20:47:08	Continuing Calibration Blank	Sn (189.925 nm)	0.0043 (ppm)	18.64	0.0043 (ppm)	4.1158
3/15/2018 20:47:08	Continuing Calibration Blank	Sr (216.596 nm)	0.0017 (ppm)	13.35	0.0017 (ppm)	18.7322
3/15/2018 20:47:08	Continuing Calibration Blank	Ti (336.122 nm)	0.0022 (ppm)	5.71	0.0022 (ppm)	-267.5198

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:47:08	Continuing Calibration Blank	Ti (351.923 nm)	-0.0028 u (ppm)	56.93	-0.0028 (ppm)	18.7055
3/15/2018 20:47:08	Continuing Calibration Blank	V (292.401 nm)	0.0013 (ppm)	11.03	0.0013 (ppm)	173.3447
3/15/2018 20:47:08	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	756269.93
3/15/2018 20:47:08	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	756475.36
3/15/2018 20:47:08	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	16.54	0.0005 (ppm)	-12.5741
3/15/2018 20:50:26	PBW-309874	Ag (328.068 nm)	-0.0002 u (ppm)	17.95	-0.0002 (ppm)	-108.9574
3/15/2018 20:50:26	PBW-309874	Al (394.401 nm)	0.0012 (ppm)	46.72	0.0012 (ppm)	125.1816
3/15/2018 20:50:26	PBW-309874	As (188.980 nm)	0.0025 (ppm)	85.42	0.0025 (ppm)	-2.1860
3/15/2018 20:50:26	PBW-309874	B (249.772 nm)	0.0011 (ppm)	21.57	0.0011 (ppm)	105.4331
3/15/2018 20:50:26	PBW-309874	Ba (230.424 nm)	-0.0001 u (ppm)	84.22	-0.0001 (ppm)	3.6586
3/15/2018 20:50:26	PBW-309874	Be (313.107 nm)	0.0000 (ppm)	99.94	0.0000 (ppm)	-574.5206
3/15/2018 20:50:26	PBW-309874	Ca (227.547 nm)	0.0113 u (ppm)	> 100.00	0.0113 (ppm)	6.7967
3/15/2018 20:50:26	PBW-309874	Cd (214.439 nm)	-0.0001 u (ppm)	42.98	-0.0001 (ppm)	14.7587
3/15/2018 20:50:26	PBW-309874	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.8849
3/15/2018 20:50:26	PBW-309874	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.9881
3/15/2018 20:50:26	PBW-309874	Cu (327.395 nm)	0.0002 (ppm)	48.75	0.0002 (ppm)	18.2964
3/15/2018 20:50:26	PBW-309874	Fe (234.350 nm)	0.0019 (ppm)	12.95	0.0019 (ppm)	37.2275
3/15/2018 20:50:26	PBW-309874	K (766.491 nm)	-0.0031 u (ppm)	> 100.00	-0.0031 (ppm)	-11.8748
3/15/2018 20:50:26	PBW-309874	Mg (279.078 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-5.8255
3/15/2018 20:50:26	PBW-309874	Mn (257.610 nm)	0.0001 (ppm)	11.12	0.0001 (ppm)	45.3561
3/15/2018 20:50:26	PBW-309874	Mo (202.032 nm)	0.0002 (ppm)	53.30	0.0002 (ppm)	6.7793
3/15/2018 20:50:26	PBW-309874	Na (588.995 nm)	0.0187 (ppm)	53.91	0.0187 (ppm)	7820.9189
3/15/2018 20:50:26	PBW-309874	Ni (230.299 nm)	0.0010 (ppm)	70.47	0.0010 (ppm)	16.9848
3/15/2018 20:50:26	PBW-309874	Pb (220.353 nm)	-0.0020 u (ppm)	71.85	-0.0020 (ppm)	1.9597
3/15/2018 20:50:26	PBW-309874	Sb (217.582 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	1.9268
3/15/2018 20:50:26	PBW-309874	Se (196.026 nm)	0.0016 (ppm)	39.36	0.0016 (ppm)	4.0383
3/15/2018 20:50:26	PBW-309874	Sn (189.925 nm)	0.0019 (ppm)	33.45	0.0019 (ppm)	1.3817
3/15/2018 20:50:26	PBW-309874	Sr (216.596 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	2.4155
3/15/2018 20:50:26	PBW-309874	Ti (351.923 nm)	0.0009 (ppm)	14.06	0.0009 (ppm)	-491.5533
3/15/2018 20:50:26	PBW-309874	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	23.2214
3/15/2018 20:50:26	PBW-309874	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	131.4941
3/15/2018 20:50:26	PBW-309874	Y (360.074 nm)	1.03 (Ratio)	0.49	1.03 (Ratio)	764220.55
3/15/2018 20:50:26	PBW-309874	Y_R (360.074 nm)	1.03 (Ratio)	0.49	1.03 (Ratio)	764423.39
3/15/2018 20:50:26	PBW-309874	Zn (213.857 nm)	0.0019 (ppm)	3.11	0.0019 (ppm)	27.5849
3/15/2018 20:53:45	LCSW-309874	Ag (328.068 nm)	0.0482 (ppm)	0.73	0.0482 (ppm)	2870.8085
3/15/2018 20:53:45	LCSW-309874	Al (394.401 nm)	1.7918 (ppm)	0.62	1.7918 (ppm)	19043.5994
3/15/2018 20:53:45	LCSW-309874	As (188.980 nm)	0.0370 (ppm)	6.88	0.0370 (ppm)	27.8762
3/15/2018 20:53:45	LCSW-309874	B (249.772 nm)	0.9470 (ppm)	0.56	0.9470 (ppm)	25395.1196
3/15/2018 20:53:45	LCSW-309874	Be (230.424 nm)	2.0133 (ppm)	1.43	2.0133 (ppm)	58620.0847
3/15/2018 20:53:45	LCSW-309874	Be (313.107 nm)	0.0484 (ppm)	0.62	0.0484 (ppm)	63231.4390
3/15/2018 20:53:45	LCSW-309874	Ca (227.547 nm)	1.7173 (ppm)	2.65	1.7173 (ppm)	87.2887
3/15/2018 20:53:45	LCSW-309874	Cd (214.439 nm)	0.0508 (ppm)	0.69	0.0508 (ppm)	1066.4039
3/15/2018 20:53:45	LCSW-309874	Co (230.786 nm)	0.5049 (ppm)	0.19	0.5049 (ppm)	4664.8359
3/15/2018 20:53:45	LCSW-309874	Cr (267.716 nm)	0.2002 (ppm)	0.51	0.2002 (ppm)	8562.2947
3/15/2018 20:53:45	LCSW-309874	Cu (327.395 nm)	0.2373 (ppm)	1.11	0.2373 (ppm)	11966.7784
3/15/2018 20:53:45	LCSW-309874	Fe (234.350 nm)	0.9820 (ppm)	0.51	0.9820 (ppm)	9626.7542
3/15/2018 20:53:45	LCSW-309874	K (766.491 nm)	18.7933 (ppm)	0.76	18.7933 (ppm)	44931.9554
3/15/2018 20:53:45	LCSW-309874	Mg (279.078 nm)	1.9215 (ppm)	0.58	1.9215 (ppm)	3535.0647
3/15/2018 20:53:45	LCSW-309874	Mn (257.610 nm)	0.4927 (ppm)	0.60	0.4927 (ppm)	135166.5575
3/15/2018 20:53:45	LCSW-309874	Mo (202.032 nm)	0.4838 (ppm)	0.61	0.4838 (ppm)	4308.0759
3/15/2018 20:53:45	LCSW-309874	Na (588.995 nm)	19.1552 (ppm)	0.83	19.1552 (ppm)	659570.1243

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 20:53:45	LCSW-309874	Ni (230.299 nm)	0.4971 (ppm)	0.44	0.4971 (ppm)	3103.3067
3/15/2018 20:53:45	LCSW-309874	Pb (220.353 nm)	0.5007 (ppm)	0.61	0.5007 (ppm)	1023.0901
3/15/2018 20:53:45	LCSW-309874	Sb (217.582 nm)	0.4673 (ppm)	1.76	0.4673 (ppm)	596.0653
3/15/2018 20:53:45	LCSW-309874	Se (196.026 nm)	1.0429 (ppm)	1.14	1.0429 (ppm)	792.0372
3/15/2018 20:53:45	LCSW-309874	Sn (189.925 nm)	4.9507 (ppm)	0.58	4.9507 (ppm)	5603.6964
3/15/2018 20:53:45	LCSW-309874	Sr (216.596 nm)	1.9956 (ppm)	1.92	1.9956 (ppm)	25785.9005
3/15/2018 20:53:45	LCSW-309874	Ti (336.122 nm)	0.4777 (ppm)	0.54	0.4777 (ppm)	8164.10843
3/15/2018 20:53:45	LCSW-309874	Tl (351.923 nm)	1.8144 (ppm)	0.84	1.8144 (ppm)	3981.6017
3/15/2018 20:53:45	LCSW-309874	V (292.401 nm)	0.4803 (ppm)	0.62	0.4803 (ppm)	14862.3131
3/15/2018 20:53:45	LCSW-309874	Y (360.074 nm)	1.02 (Ratio)	0.69	1.02 (Ratio)	761480.66
3/15/2018 20:53:45	LCSW-309874	Y_R (360.074 nm)	1.02 (Ratio)	0.69	1.02 (Ratio)	761757.79
3/15/2018 20:53:45	LCSW-309874	Zn (213.857 nm)	0.4738 (ppm)	1.61	0.4738 (ppm)	13315.8218
3/15/2018 20:57:03	R1801942-001	Ag (328.068 nm)	-0.0002 u (ppm)	27.35	-0.0002 (ppm)	-106.9635
3/15/2018 20:57:03	R1801942-001	Al (394.401 nm)	0.3007 (ppm)	0.13	0.3007 (ppm)	3289.7262
3/15/2018 20:57:03	R1801942-001	As (188.980 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	-1.6415
3/15/2018 20:57:03	R1801942-001	B (249.772 nm)	0.0135 (ppm)	1.26	0.0135 (ppm)	437.7951
3/15/2018 20:57:03	R1801942-001	Be (230.424 nm)	0.0352 (ppm)	1.16	0.0352 (ppm)	1031.3695
3/15/2018 20:57:03	R1801942-001	Be (313.107 nm)	0.0000 (ppm)	36.97	0.0000 (ppm)	-528.1125
3/15/2018 20:57:03	R1801942-001	Ca (227.547 nm)	49.5479 (ppm)	0.14	49.5479 (ppm)	2344.0158
3/15/2018 20:57:03	R1801942-001	Cd (214.439 nm)	-0.0002 u (ppm)	31.39	-0.0002 (ppm)	13.0270
3/15/2018 20:57:03	R1801942-001	Co (230.786 nm)	0.0006 (ppm)	41.44	0.0006 (ppm)	2.0634
3/15/2018 20:57:03	R1801942-001	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.4659
3/15/2018 20:57:03	R1801942-001	Cu (327.395 nm)	0.0010 (ppm)	14.79	0.0010 (ppm)	58.3449
3/15/2018 20:57:03	R1801942-001	Fe (234.350 nm)	0.3416 (ppm)	0.08	0.3416 (ppm)	3360.2504
3/15/2018 20:57:03	R1801942-001	K (766.491 nm)	1.0034 (ppm)	0.17	1.0034 (ppm)	2394.6737
3/15/2018 20:57:03	R1801942-001	Mg (279.078 nm)	17.2886 (ppm)	0.23	17.2886 (ppm)	31850.8902
3/15/2018 20:57:03	R1801942-001	Mn (257.610 nm)	0.8154 (ppm)	0.25	0.8154 (ppm)	223677.0899
3/15/2018 20:57:03	R1801942-001	Mo (202.032 nm)	0.0007 (ppm)	19.60	0.0007 (ppm)	11.6952
3/15/2018 20:57:03	R1801942-001	Na (588.995 nm)	11.5406 (ppm)	0.22	11.5406 (ppm)	394009.8115
3/15/2018 20:57:03	R1801942-001	Ni (230.299 nm)	-0.0049 u (ppm)	37.96	-0.0049 (ppm)	-53.6488
3/15/2018 20:57:03	R1801942-001	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	3.4502
3/15/2018 20:57:03	R1801942-001	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.7546
3/15/2018 20:57:03	R1801942-001	Se (196.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	2.2440
3/15/2018 20:57:03	R1801942-001	Sn (189.925 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	0.5186
3/15/2018 20:57:03	R1801942-001	Sr (216.596 nm)	0.1043 (ppm)	0.91	0.1043 (ppm)	1344.5454
3/15/2018 20:57:03	R1801942-001	Ti (336.122 nm)	0.0047 (ppm)	3.50	0.0047 (ppm)	164.1959
3/15/2018 20:57:03	R1801942-001	Tl (351.923 nm)	-0.0046 u (ppm)	49.36	-0.0046 (ppm)	14.6658
3/15/2018 20:57:03	R1801942-001	V (292.401 nm)	0.0007 (ppm)	53.62	0.0007 (ppm)	154.6375
3/15/2018 20:57:03	R1801942-001	Y (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	753371.53
3/15/2018 20:57:03	R1801942-001	Y_R (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	753662.14
3/15/2018 20:57:03	R1801942-001	Zn (213.857 nm)	0.0065 (ppm)	1.83	0.0065 (ppm)	155.6980
3/15/2018 21:00:22	R1801942-002	Ag (328.068 nm)	-0.0002 u (ppm)	59.86	-0.0002 (ppm)	-108.9662
3/15/2018 21:00:22	R1801942-002	Al (394.401 nm)	0.2878 (ppm)	0.62	0.2878 (ppm)	3152.6168
3/15/2018 21:00:22	R1801942-002	As (188.980 nm)	0.0047 (ppm)	43.93	0.0047 (ppm)	-0.2497
3/15/2018 21:00:22	R1801942-002	B (249.772 nm)	0.0484 (ppm)	0.56	0.0484 (ppm)	1368.7606
3/15/2018 21:00:22	R1801942-002	Be (230.424 nm)	0.1998 (ppm)	0.57	0.1998 (ppm)	5821.8791
3/15/2018 21:00:22	R1801942-002	Be (313.107 nm)	0.0000 (ppm)	28.85	0.0000 (ppm)	-538.1537
3/15/2018 21:00:22	R1801942-002	Ca (227.547 nm)	34.2193 (ppm)	0.47	34.2193 (ppm)	1620.7863
3/15/2018 21:00:22	R1801942-002	Cd (214.439 nm)	-0.0001 u (ppm)	38.29	-0.0001 (ppm)	14.0248
3/15/2018 21:00:22	R1801942-002	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.2215
3/15/2018 21:00:22	R1801942-002	Cr (267.716 nm)	-0.0001 u (ppm)	90.39	-0.0001 (ppm)	-7.6295



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:00:22	R1801942-002	Cu (327.395 nm)	0.0006 (ppm)	22.32	0.0006 (ppm)	38.3752
3/15/2018 21:00:22	R1801942-002	Fe (234.350 nm)	0.4611 (ppm)	0.25	0.4611 (ppm)	4529.4373
3/15/2018 21:00:22	R1801942-002	K (766.491 nm)	0.9688 (ppm)	0.64	0.9688 (ppm)	2312.0946
3/15/2018 21:00:22	R1801942-002	Mg (279.078 nm)	11.5231 (ppm)	0.46	11.5231 (ppm)	21227.2293
3/15/2018 21:00:22	R1801942-002	Mn (257.610 nm)	0.7366 (ppm)	0.36	0.7366 (ppm)	202061.1946
3/15/2018 21:00:22	R1801942-002	Mo (202.032 nm)	0.0003 (ppm)	19.67	0.0003 (ppm)	7.8099
3/15/2018 21:00:22	R1801942-002	Na (588.995 nm)	13.0682 (ppm)	0.45	13.0682 (ppm)	447284.6949
3/15/2018 21:00:22	R1801942-002	Ni (230.299 nm)	-0.0055 (ppm)	24.84	-0.0055 (ppm)	-57.8629
3/15/2018 21:00:22	R1801942-002	Pb (220.353 nm)	-0.0019 (ppm)	38.01	-0.0019 (ppm)	2.1866
3/15/2018 21:00:22	R1801942-002	Sb (217.582 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	0.5303
3/15/2018 21:00:22	R1801942-002	Se (196.026 nm)	0.0018 (ppm)	91.40	0.0018 (ppm)	4.1968
3/15/2018 21:00:22	R1801942-002	Sn (189.925 nm)	0.0013 (ppm)	> 100.00	0.0013 (ppm)	0.6989
3/15/2018 21:00:22	R1801942-002	Sr (216.596 nm)	0.0948 (ppm)	0.56	0.0948 (ppm)	1222.5500
3/15/2018 21:00:22	R1801942-002	Ti (336.122 nm)	0.0028 (ppm)	6.08	0.0028 (ppm)	-164.3910
3/15/2018 21:00:22	R1801942-002	Tl (351.923 nm)	-0.0028 (ppm)	97.15	-0.0028 (ppm)	18.6124
3/15/2018 21:00:22	R1801942-002	V (292.401 nm)	0.0005 (ppm)	37.34	0.0005 (ppm)	148.4774
3/15/2018 21:00:22	R1801942-002	Y (360.074 nm)	1.02 (Ratio)	0.40	1.02 (Ratio)	757931.35
3/15/2018 21:00:22	R1801942-002	Y_R (360.074 nm)	1.02 (Ratio)	0.40	1.02 (Ratio)	758203.73
3/15/2018 21:00:22	R1801942-002	Zn (213.857 nm)	0.0046 (ppm)	0.70	0.0046 (ppm)	102.8751
3/15/2018 21:03:41	R1801942-003	Ag (328.068 nm)	-0.0001 (ppm)	> 100.00	-0.0001 (ppm)	-105.9988
3/15/2018 21:03:41	R1801942-003	Al (394.401 nm)	0.0548 (ppm)	0.57	0.0548 (ppm)	691.3100
3/15/2018 21:03:41	R1801942-003	As (188.980 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	-3.0888
3/15/2018 21:03:41	R1801942-003	B (249.772 nm)	0.0207 (ppm)	1.03	0.0207 (ppm)	628.8127
3/15/2018 21:03:41	R1801942-003	Ba (230.424 nm)	0.0261 (ppm)	0.75	0.0261 (ppm)	765.7510
3/15/2018 21:03:41	R1801942-003	Be (313.107 nm)	0.0000 (ppm)	20.53	0.0000 (ppm)	-567.1343
3/15/2018 21:03:41	R1801942-003	Ca (227.547 nm)	53.8935 (ppm)	1.08	53.8935 (ppm)	2549.0490
3/15/2018 21:03:41	R1801942-003	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	16.1543
3/15/2018 21:03:41	R1801942-003	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-2.3788
3/15/2018 21:03:41	R1801942-003	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-4.0871
3/15/2018 21:03:41	R1801942-003	Cu (327.395 nm)	0.0005 (ppm)	32.10	0.0005 (ppm)	33.3114
3/15/2018 21:03:41	R1801942-003	Fe (234.350 nm)	0.0459 (ppm)	0.99	0.0459 (ppm)	467.7657
3/15/2018 21:03:41	R1801942-003	K (766.491 nm)	0.9926 (ppm)	0.33	0.9926 (ppm)	2368.8306
3/15/2018 21:03:41	R1801942-003	Mg (279.078 nm)	18.7306 (ppm)	0.87	18.7306 (ppm)	34507.8206
3/15/2018 21:03:41	R1801942-003	Mn (257.610 nm)	0.2483 (ppm)	0.84	0.2483 (ppm)	68133.3151
3/15/2018 21:03:41	R1801942-003	Mo (202.032 nm)	-0.0003 (ppm)	> 100.00	-0.0003 (ppm)	2.4646
3/15/2018 21:03:41	R1801942-003	Na (588.995 nm)	14.5941 (ppm)	1.19	14.5941 (ppm)	500500.1441
3/15/2018 21:03:41	R1801942-003	Ni (230.299 nm)	-0.0047 (ppm)	14.42	-0.0047 (ppm)	-52.3761
3/15/2018 21:03:41	R1801942-003	Pb (220.353 nm)	-0.0024 (ppm)	53.65	-0.0024 (ppm)	1.1496
3/15/2018 21:03:41	R1801942-003	Sb (217.582 nm)	0.0024 (ppm)	> 100.00	0.0024 (ppm)	2.8419
3/15/2018 21:03:41	R1801942-003	Se (196.026 nm)	-0.0009 (ppm)	> 100.00	-0.0009 (ppm)	2.1391
3/15/2018 21:03:41	R1801942-003	Sn (189.925 nm)	-0.0008 (ppm)	99.95	-0.0008 (ppm)	-1.7145
3/15/2018 21:03:41	R1801942-003	Sr (216.596 nm)	0.0913 (ppm)	1.81	0.0913 (ppm)	1176.7905
3/15/2018 21:03:41	R1801942-003	Ti (336.122 nm)	0.0011 (ppm)	3.73	0.0011 (ppm)	-450.7661
3/15/2018 21:03:41	R1801942-003	Tl (351.923 nm)	-0.0032 (ppm)	80.32	-0.0032 (ppm)	17.9051
3/15/2018 21:03:41	R1801942-003	V (292.401 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	140.7962
3/15/2018 21:03:41	R1801942-003	Y (360.074 nm)	1.00 (Ratio)	0.61	1.00 (Ratio)	747252.44
3/15/2018 21:03:41	R1801942-003	Y_R (360.074 nm)	1.00 (Ratio)	0.61	1.00 (Ratio)	747527.84
3/15/2018 21:03:41	R1801942-003	Zn (213.857 nm)	0.0020 (ppm)	3.69	0.0020 (ppm)	28.9982
3/15/2018 21:06:59	R1801942-004	Ag (328.068 nm)	-0.0002 (ppm)	13.17	-0.0002 (ppm)	-109.2420
3/15/2018 21:06:59	R1801942-004	Al (394.401 nm)	0.1512 (ppm)	0.46	0.1512 (ppm)	1709.8529
3/15/2018 21:06:59	R1801942-004	As (188.980 nm)	0.0022 (ppm)	> 100.00	0.0022 (ppm)	-2.3780

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:06:59	R1801942-004	B (249.772 nm)	0.0212 (ppm)	0.60	0.0212 (ppm)	641.6042
3/15/2018 21:06:59	R1801942-004	Ba (230.424 nm)	0.0314 (ppm)	1.36	0.0314 (ppm)	919.9940
3/15/2018 21:06:59	R1801942-004	Be (313.107 nm)	0.0000 (ppm)	30.90	0.0000 (ppm)	-559.5958
3/15/2018 21:06:59	R1801942-004	Ca (227.547 nm)	55.1705 u (ppm)	0.25	55.1705 (ppm)	2609.2978
3/15/2018 21:06:59	R1801942-004	Cd (214.439 nm)	-0.0001 u (ppm)	57.08	-0.0001 (ppm)	14.0785
3/15/2018 21:06:59	R1801942-004	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.7687
3/15/2018 21:06:59	R1801942-004	Cr (267.716 nm)	-0.0003 u (ppm)	45.65	-0.0003 (ppm)	-16.4559
3/15/2018 21:06:59	R1801942-004	Cu (327.395 nm)	0.0011 (ppm)	8.22	0.0011 (ppm)	65.0936
3/15/2018 21:06:59	R1801942-004	Fe (234.350 nm)	0.2021 (ppm)	0.20	0.2021 (ppm)	1895.5517
3/15/2018 21:06:59	R1801942-004	K (766.491 nm)	1.0529 (ppm)	1.15	1.0529 (ppm)	2513.0813
3/15/2018 21:06:59	R1801942-004	Mg (279.078 nm)	19.1449 (ppm)	0.27	19.1449 (ppm)	35271.2178
3/15/2018 21:06:59	R1801942-004	Mn (257.610 nm)	0.7440 (ppm)	0.27	0.7440 (ppm)	204096.4241
3/15/2018 21:06:59	R1801942-004	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.2228
3/15/2018 21:06:59	R1801942-004	Na (588.995 nm)	14.9328 (ppm)	0.69	14.9328 (ppm)	512310.8893
3/15/2018 21:06:59	R1801942-004	Ni (230.299 nm)	-0.0035 u (ppm)	26.34	-0.0035 (ppm)	-44.9369
3/15/2018 21:06:59	R1801942-004	Pb (220.353 nm)	-0.0013 u (ppm)	9.84	-0.0013 (ppm)	3.5555
3/15/2018 21:06:59	R1801942-004	Sb (217.582 nm)	0.0042 (ppm)	39.55	0.0042 (ppm)	5.1538
3/15/2018 21:06:59	R1801942-004	Se (186.026 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	2.2521
3/15/2018 21:06:59	R1801942-004	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-0.3129
3/15/2018 21:06:59	R1801942-004	Sr (216.596 nm)	0.0941 (ppm)	0.17	0.0941 (ppm)	1212.9465
3/15/2018 21:06:59	R1801942-004	Ti (336.122 nm)	0.0028 (ppm)	7.28	0.0028 (ppm)	-148.9964
3/15/2018 21:06:59	R1801942-004	Ti (351.923 nm)	-0.0083 u (ppm)	43.44	-0.0083 (ppm)	6.7280
3/15/2018 21:06:59	R1801942-004	V (292.401 nm)	0.0005 (ppm)	44.47	0.0005 (ppm)	149.1109
3/15/2018 21:06:59	R1801942-004	Y (360.074 nm)	1.01 (Ratio)	0.74	1.01 (Ratio)	750141.93
3/15/2018 21:06:59	R1801942-004	Y_R (360.074 nm)	1.01 (Ratio)	0.74	1.01 (Ratio)	750431.75
3/15/2018 21:06:59	R1801942-004	Zn (213.857 nm)	0.0037 (ppm)	1.62	0.0037 (ppm)	78.3219
3/15/2018 21:10:16	R1801942-005	Ag (328.068 nm)	-0.0002 u (ppm)	14.49	-0.0002 (ppm)	-111.5901
3/15/2018 21:10:16	R1801942-005	Al (394.401 nm)	0.0017 (ppm)	25.84	0.0017 (ppm)	129.8478
3/15/2018 21:10:16	R1801942-005	As (188.980 nm)	-0.0014 u (ppm)	76.67	-0.0014 (ppm)	-5.5867
3/15/2018 21:10:16	R1801942-005	B (249.772 nm)	-0.0009 u (ppm)	26.17	-0.0009 (ppm)	51.2809
3/15/2018 21:10:16	R1801942-005	Ba (230.424 nm)	-0.0002 u (ppm)	23.56	-0.0002 (ppm)	0.9008
3/15/2018 21:10:16	R1801942-005	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-581.0706
3/15/2018 21:10:16	R1801942-005	Ca (227.547 nm)	-0.0431 u (ppm)	70.29	-0.0431 (ppm)	4.2284
3/15/2018 21:10:16	R1801942-005	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.9777
3/15/2018 21:10:16	R1801942-005	Co (230.786 nm)	-0.0002 u (ppm)	88.20	-0.0002 (ppm)	-5.5362
3/15/2018 21:10:16	R1801942-005	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-3.5720
3/15/2018 21:10:16	R1801942-005	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	11.8083
3/15/2018 21:10:16	R1801942-005	Fe (234.350 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	20.4613
3/15/2018 21:10:16	R1801942-005	K (766.491 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-9.0574
3/15/2018 21:10:16	R1801942-005	Mg (279.078 nm)	0.0041 (ppm)	43.12	0.0041 (ppm)	2.0272
3/15/2018 21:10:16	R1801942-005	Mn (257.610 nm)	0.0003 (ppm)	18.20	0.0003 (ppm)	104.0360
3/15/2018 21:10:16	R1801942-005	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.3715
3/15/2018 21:10:16	R1801942-005	Na (588.995 nm)	0.0166 (ppm)	9.89	0.0166 (ppm)	-7893.0735
3/15/2018 21:10:16	R1801942-005	Ni (230.299 nm)	0.0011 (ppm)	8.42	0.0011 (ppm)	-16.2472
3/15/2018 21:10:16	R1801942-005	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.7275
3/15/2018 21:10:16	R1801942-005	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	1.3605
3/15/2018 21:10:16	R1801942-005	Se (186.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	3.8084
3/15/2018 21:10:16	R1801942-005	Sn (189.925 nm)	0.0007 (ppm)	75.77	0.0007 (ppm)	0.0748
3/15/2018 21:10:16	R1801942-005	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.5252
3/15/2018 21:10:16	R1801942-005	Ti (336.122 nm)	0.0006 (ppm)	8.62	0.0006 (ppm)	-530.3263
3/15/2018 21:10:16	R1801942-005	Ti (351.923 nm)	-0.0042 u (ppm)	57.45	-0.0042 (ppm)	15.7034

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:10:16	R1801942-005	V (292.401 nm)	-0.0002 u (ppm)	45.47	-0.0002 (ppm)	128.5932
3/15/2018 21:10:16	R1801942-005	Y (360.074 nm)	1.04 (Ratio)	0.58	1.04 (Ratio)	772034.12
3/15/2018 21:10:16	R1801942-005	Y_R (360.074 nm)	1.04 (Ratio)	0.58	1.04 (Ratio)	772275.16
3/15/2018 21:10:16	R1801942-005	Zn (213.857 nm)	0.0018 (ppm)	3.38	0.0018 (ppm)	23.5705
3/15/2018 21:13:34	R1801942-006	Ag (328.068 nm)	-0.0003 u (ppm)	27.49	-0.0003 (ppm)	-113.7598
3/15/2018 21:13:34	R1801942-006	Al (394.401 nm)	0.0289 (ppm)	2.21	0.0289 (ppm)	417.4045
3/15/2018 21:13:34	R1801942-006	As (188.980 nm)	0.0028 (ppm)	55.75	0.0028 (ppm)	-1.8585
3/15/2018 21:13:34	R1801942-006	B (249.772 nm)	0.0186 (ppm)	0.47	0.0186 (ppm)	573.0433
3/15/2018 21:13:34	R1801942-006	Ba (230.424 nm)	0.1058 (ppm)	0.59	0.1058 (ppm)	3087.0320
3/15/2018 21:13:34	R1801942-006	Be (313.107 nm)	0.0000 (ppm)	37.46	0.0000 (ppm)	-566.2228
3/15/2018 21:13:34	R1801942-006	Ca (227.547 nm)	47.1754 (ppm)	0.24	47.1754 (ppm)	2232.0743
3/15/2018 21:13:34	R1801942-006	Cd (214.439 nm)	-0.0002 u (ppm)	29.40	-0.0002 (ppm)	12.6746
3/15/2018 21:13:34	R1801942-006	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.1814
3/15/2018 21:13:34	R1801942-006	Cr (267.716 nm)	-0.0001 u (ppm)	89.23	-0.0001 (ppm)	-8.4916
3/15/2018 21:13:34	R1801942-006	Cu (327.395 nm)	0.0007 (ppm)	38.06	0.0007 (ppm)	41.6208
3/15/2018 21:13:34	R1801942-006	Fe (234.350 nm)	0.0481 (ppm)	0.52	0.0481 (ppm)	488.7941
3/15/2018 21:13:34	R1801942-006	K (766.491 nm)	0.9696 (ppm)	0.21	0.9696 (ppm)	2313.9439
3/15/2018 21:13:34	R1801942-006	Mg (279.078 nm)	18.5340 (ppm)	0.46	18.5340 (ppm)	34145.6643
3/15/2018 21:13:34	R1801942-006	Mn (257.610 nm)	0.0492 (ppm)	0.51	0.0492 (ppm)	13503.5243
3/15/2018 21:13:34	R1801942-006	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	5.7690
3/15/2018 21:13:34	R1801942-006	Na (588.895 nm)	17.4802 (ppm)	0.46	17.4802 (ppm)	601153.9327
3/15/2018 21:13:34	R1801942-006	Ni (230.299 nm)	-0.0043 u (ppm)	23.84	-0.0043 (ppm)	-50.1308
3/15/2018 21:13:34	R1801942-006	Pb (220.353 nm)	-0.0025 u (ppm)	25.79	-0.0025 (ppm)	0.9571
3/15/2018 21:13:34	R1801942-006	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.1101
3/15/2018 21:13:34	R1801942-006	Se (196.026 nm)	-0.0038 u (ppm)	> 100.00	-0.0038 (ppm)	-0.0576
3/15/2018 21:13:34	R1801942-006	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.3897
3/15/2018 21:13:34	R1801942-006	Sr (216.596 nm)	0.1220 (ppm)	0.62	0.1220 (ppm)	1574.2191
3/15/2018 21:13:34	R1801942-006	Ti (336.122 nm)	0.0009 (ppm)	3.68	0.0009 (ppm)	-489.1303
3/15/2018 21:13:34	R1801942-006	Tl (351.923 nm)	-0.0052 u (ppm)	67.65	-0.0052 (ppm)	13.4853
3/15/2018 21:13:34	R1801942-006	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	135.5915
3/15/2018 21:13:34	R1801942-006	Y (360.074 nm)	1.01 (Ratio)	0.54	1.01 (Ratio)	754672.94
3/15/2018 21:13:34	R1801942-006	Y_R (360.074 nm)	1.01 (Ratio)	0.54	1.01 (Ratio)	754979.37
3/15/2018 21:13:34	R1801942-006	Zn (213.857 nm)	0.0021 (ppm)	6.69	0.0021 (ppm)	33.0830
3/15/2018 21:16:53	R1801942-006S	Ag (328.068 nm)	0.0492 (ppm)	0.23	0.0492 (ppm)	2934.1582
3/15/2018 21:16:53	R1801942-006S	Al (394.401 nm)	1.9309 (ppm)	0.35	1.9309 (ppm)	20513.4778
3/15/2018 21:16:53	R1801942-006S	As (188.980 nm)	0.0409 (ppm)	3.41	0.0409 (ppm)	31.2341
3/15/2018 21:16:53	R1801942-006S	B (249.772 nm)	0.9950 (ppm)	0.23	0.9950 (ppm)	26678.5056
3/15/2018 21:16:53	R1801942-006S	Ba (230.424 nm)	2.1254 (ppm)	0.30	2.1254 (ppm)	61885.5534
3/15/2018 21:16:53	R1801942-006S	Be (313.107 nm)	0.0494 (ppm)	0.32	0.0494 (ppm)	64534.8177
3/15/2018 21:16:53	R1801942-006S	Ca (227.547 nm)	49.6683 (ppm)	0.39	49.6683 (ppm)	2349.6950
3/15/2018 21:16:53	R1801942-006S	Cd (214.439 nm)	0.0502 (ppm)	0.70	0.0502 (ppm)	1055.1245
3/15/2018 21:16:53	R1801942-006S	Co (230.786 nm)	0.4969 (ppm)	0.41	0.4969 (ppm)	4591.1679
3/15/2018 21:16:53	R1801942-006S	Cr (267.716 nm)	0.2016 (ppm)	0.30	0.2016 (ppm)	8621.0237
3/15/2018 21:16:53	R1801942-006S	Cu (327.395 nm)	0.2413 (ppm)	0.45	0.2413 (ppm)	12164.1262
3/15/2018 21:16:53	R1801942-006S	Fe (234.350 nm)	1.0317 (ppm)	0.20	1.0317 (ppm)	10113.0312
3/15/2018 21:16:53	R1801942-006S	K (766.491 nm)	20.6565 (ppm)	0.51	20.6565 (ppm)	49387.0589
3/15/2018 21:16:53	R1801942-006S	Mg (279.078 nm)	20.5145 (ppm)	0.27	20.5145 (ppm)	37794.8666
3/15/2018 21:16:53	R1801942-006S	Mn (257.610 nm)	0.5559 (ppm)	0.24	0.5559 (ppm)	152502.6883
3/15/2018 21:16:53	R1801942-006S	Mo (202.032 nm)	0.4911 (ppm)	0.33	0.4911 (ppm)	4372.6952
3/15/2018 21:16:53	R1801942-006S	Na (588.895 nm)	36.5725 (ppm)	0.94	36.5725 (ppm)	1267004.8347
3/15/2018 21:16:53	R1801942-006S	Ni (230.299 nm)	0.4821 (ppm)	0.54	0.4821 (ppm)	3008.8731

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:16:53	R1801942-006S	Pb (220.353 nm)	0.4965 (ppm)	0.60	0.4965 (ppm)	1014.5671
3/15/2018 21:16:53	R1801942-006S	Sb (217.582 nm)	0.4807 (ppm)	0.28	0.4807 (ppm)	613.2127
3/15/2018 21:16:53	R1801942-006S	Se (196.026 nm)	1.0610 (ppm)	0.70	1.0610 (ppm)	805.7473
3/15/2018 21:16:53	R1801942-006S	Sn (189.925 nm)	5.0080 (ppm)	0.47	5.0080 (ppm)	5668.5636
3/15/2018 21:16:53	R1801942-006S	Sr (216.596 nm)	2.1010 (ppm)	0.60	2.1010 (ppm)	27148.3061
3/15/2018 21:16:53	R1801942-006S	Ti (336.122 nm)	0.4839 (ppm)	0.23	0.4839 (ppm)	82712.2171
3/15/2018 21:16:53	R1801942-006S	Ti (351.923 nm)	1.8994 (ppm)	0.12	1.8994 (ppm)	4167.0355
3/15/2018 21:16:53	R1801942-006S	V (292.401 nm)	0.4894 (ppm)	0.27	0.4894 (ppm)	15142.6845
3/15/2018 21:16:53	R1801942-006S	Y (360.074 nm)	1.01 (Ratio)	0.60	1.01 (Ratio)	748809.05
3/15/2018 21:16:53	R1801942-006S	Y_R (360.074 nm)	1.01 (Ratio)	0.60	1.01 (Ratio)	749137.55
3/15/2018 21:16:53	R1801942-006S	Zn (213.857 nm)	0.4774 (ppm)	0.47	0.4774 (ppm)	13418.1555
3/15/2018 21:20:12	R1801942-006SD	Ag (328.068 nm)	0.0497 (ppm)	0.18	0.0497 (ppm)	2961.1765
3/15/2018 21:20:12	R1801942-006SD	Al (394.401 nm)	1.9452 (ppm)	0.26	1.9452 (ppm)	20664.3550
3/15/2018 21:20:12	R1801942-006SD	As (188.980 nm)	0.0471 (ppm)	8.32	0.0471 (ppm)	36.6122
3/15/2018 21:20:12	R1801942-006SD	B (249.772 nm)	1.0039 (ppm)	0.16	1.0039 (ppm)	26917.5398
3/15/2018 21:20:12	R1801942-006SD	Ba (230.424 nm)	2.1371 (ppm)	0.07	2.1371 (ppm)	62224.2110
3/15/2018 21:20:12	R1801942-006SD	Be (313.107 nm)	0.0499 (ppm)	0.13	0.0499 (ppm)	65118.7671
3/15/2018 21:20:12	R1801942-006SD	Ca (227.547 nm)	49.7375 (ppm)	0.26	49.7375 (ppm)	2352.9613
3/15/2018 21:20:12	R1801942-006SD	Cd (214.439 nm)	0.0507 (ppm)	0.03	0.0507 (ppm)	1064.9510
3/15/2018 21:20:12	R1801942-006SD	Co (230.786 nm)	0.5011 (ppm)	0.36	0.5011 (ppm)	4629.8756
3/15/2018 21:20:12	R1801942-006SD	Cr (267.716 nm)	0.2032 (ppm)	0.21	0.2032 (ppm)	8691.9759
3/15/2018 21:20:12	R1801942-006SD	Cu (327.395 nm)	0.2434 (ppm)	0.35	0.2434 (ppm)	12269.9878
3/15/2018 21:20:12	R1801942-006SD	Fe (234.350 nm)	1.0461 (ppm)	0.07	1.0461 (ppm)	10253.5945
3/15/2018 21:20:12	R1801942-006SD	K (766.491 nm)	20.8084 (ppm)	0.44	20.8084 (ppm)	49750.2273
3/15/2018 21:20:12	R1801942-006SD	Mg (279.078 nm)	20.5626 (ppm)	0.22	20.5626 (ppm)	37883.4862
3/15/2018 21:20:12	R1801942-006SD	Mn (257.610 nm)	0.5624 (ppm)	0.09	0.5624 (ppm)	154280.7561
3/15/2018 21:20:12	R1801942-006SD	Mo (202.032 nm)	0.4958 (ppm)	0.10	0.4958 (ppm)	4414.3987
3/15/2018 21:20:12	R1801942-006SD	Na (588.995 nm)	36.7986 (ppm)	0.55	36.7986 (ppm)	1274887.8331
3/15/2018 21:20:12	R1801942-006SD	Ni (230.299 nm)	0.4855 (ppm)	0.28	0.4855 (ppm)	3030.4314
3/15/2018 21:20:12	R1801942-006SD	Pb (220.353 nm)	0.4991 (ppm)	0.47	0.4991 (ppm)	1019.7984
3/15/2018 21:20:12	R1801942-006SD	Sb (217.582 nm)	0.4837 (ppm)	0.26	0.4837 (ppm)	617.0139
3/15/2018 21:20:12	R1801942-006SD	Se (196.026 nm)	1.0694 (ppm)	0.56	1.0694 (ppm)	812.1169
3/15/2018 21:20:12	R1801942-006SD	Sn (189.925 nm)	5.0476 (ppm)	0.40	5.0476 (ppm)	5713.4298
3/15/2018 21:20:12	R1801942-006SD	Sr (216.596 nm)	2.1239 (ppm)	0.31	2.1239 (ppm)	27443.7243
3/15/2018 21:20:12	R1801942-006SD	Ti (336.122 nm)	0.4885 (ppm)	0.25	0.4885 (ppm)	83505.5667
3/15/2018 21:20:12	R1801942-006SD	Ti (351.923 nm)	1.9083 (ppm)	0.19	1.9083 (ppm)	4186.5365
3/15/2018 21:20:12	R1801942-006SD	V (292.401 nm)	0.4936 (ppm)	0.22	0.4936 (ppm)	15272.6617
3/15/2018 21:20:12	R1801942-006SD	Y (360.074 nm)	1.00 (Ratio)	0.53	1.00 (Ratio)	743957.28
3/15/2018 21:20:12	R1801942-006SD	Y_R (360.074 nm)	1.00 (Ratio)	0.53	1.00 (Ratio)	744245.53
3/15/2018 21:20:12	R1801942-006SD	Zn (213.857 nm)	0.4784 (ppm)	0.36	0.4784 (ppm)	13445.9484
3/15/2018 21:23:30	Continuing Calibration Verification	Ag (328.068 nm)	0.4751 (ppm)	0.49	0.4751 (ppm)	29168.7298
3/15/2018 21:23:30	Continuing Calibration Verification	Al (394.401 nm)	9.4349 (ppm)	0.14	9.4349 (ppm)	99797.0355
3/15/2018 21:23:30	Continuing Calibration Verification	As (188.980 nm)	0.9904 (ppm)	1.88	0.9904 (ppm)	857.1788
3/15/2018 21:23:30	Continuing Calibration Verification	B (249.772 nm)	2.4108 (ppm)	0.53	2.4108 (ppm)	64535.0700
3/15/2018 21:23:30	Continuing Calibration Verification	Ba (230.424 nm)	10.1182 (ppm)	0.63	10.1182 (ppm)	294587.0063
3/15/2018 21:23:30	Continuing Calibration Verification	Be (313.107 nm)	0.2494 (ppm)	0.40	0.2494 (ppm)	327945.0698
3/15/2018 21:23:30	Continuing Calibration Verification	Ca (227.547 nm)	23.7459 (ppm)	0.65	23.7459 (ppm)	1126.6324
3/15/2018 21:23:30	Continuing Calibration Verification	Cd (214.439 nm)	0.5049 (ppm)	0.36	0.5049 (ppm)	10454.9646
3/15/2018 21:23:30	Continuing Calibration Verification	Co (230.786 nm)	2.5313 (ppm)	0.42	2.5313 (ppm)	23401.3641
3/15/2018 21:23:30	Continuing Calibration Verification	Cr (267.716 nm)	0.5129 (ppm)	0.49	0.5129 (ppm)	21941.6268
3/15/2018 21:23:30	Continuing Calibration Verification	Cu (327.395 nm)	1.1921 (ppm)	0.51	1.1921 (ppm)	60076.5551

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:23:30	Continuing Calibration Verification	Fe (234.350 nm)	4.9492 (ppm)	0.39	4.9492 (ppm)	48442.1352
3/15/2018 21:23:30	Continuing Calibration Verification	K (766.491 nm)	24.3030 (ppm)	0.33	24.3030 (ppm)	58106.1848
3/15/2018 21:23:30	Continuing Calibration Verification	Mg (279.078 nm)	24.5884 (ppm)	0.52	24.5884 (ppm)	45301.5647
3/15/2018 21:23:30	Continuing Calibration Verification	Mn (257.610 nm)	0.7558 (ppm)	0.37	0.7558 (ppm)	207328.5587
3/15/2018 21:23:30	Continuing Calibration Verification	Mo (202.032 nm)	2.4682 (ppm)	0.31	2.4682 (ppm)	21958.1433
3/15/2018 21:23:30	Continuing Calibration Verification	Na (588.995 nm)	24.6373 (ppm)	0.61	24.6373 (ppm)	850758.8605
3/15/2018 21:23:30	Continuing Calibration Verification	Ni (230.299 nm)	2.0374 (ppm)	0.39	2.0374 (ppm)	12789.6161
3/15/2018 21:23:30	Continuing Calibration Verification	Pb (220.353 nm)	0.5021 (ppm)	0.79	0.5021 (ppm)	1025.8605
3/15/2018 21:23:30	Continuing Calibration Verification	Sb (217.582 nm)	5.0244 (ppm)	0.63	5.0244 (ppm)	6410.8885
3/15/2018 21:23:30	Continuing Calibration Verification	Se (196.026 nm)	0.4962 (ppm)	0.84	0.4962 (ppm)	378.3575
3/15/2018 21:23:30	Continuing Calibration Verification	Sn (189.925 nm)	5.0684 (ppm)	0.34	5.0684 (ppm)	5736.9387
3/15/2018 21:23:30	Continuing Calibration Verification	Sr (216.596 nm)	2.5125 (ppm)	0.11	2.5125 (ppm)	32465.2416
3/15/2018 21:23:30	Continuing Calibration Verification	Ti (336.122 nm)	2.4392 (ppm)	0.45	2.4392 (ppm)	419476.7737
3/15/2018 21:23:30	Continuing Calibration Verification	Tl (351.923 nm)	0.9955 (ppm)	1.00	0.9955 (ppm)	2195.8240
3/15/2018 21:23:30	Continuing Calibration Verification	V (292.401 nm)	2.4758 (ppm)	0.38	2.4758 (ppm)	76062.6962
3/15/2018 21:23:30	Continuing Calibration Verification	Y (360.074 nm)	1.00 (Ratio)	0.39	1.00 (Ratio)	741010.45
3/15/2018 21:23:30	Continuing Calibration Verification	Y_R (360.074 nm)	1.00 (Ratio)	0.39	1.00 (Ratio)	741278.23
3/15/2018 21:23:30	Continuing Calibration Verification	Zn (213.857 nm)	0.9615 (ppm)	0.36	0.9615 (ppm)	27051.2971
3/15/2018 21:26:49	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-94.5312
3/15/2018 21:26:49	Continuing Calibration Blank	Al (394.401 nm)	0.0074 (ppm)	6.41	0.0074 (ppm)	190.4956
3/15/2018 21:26:49	Continuing Calibration Blank	As (188.980 nm)	0.0039 (ppm)	54.32	0.0039 (ppm)	-0.9417
3/15/2018 21:26:49	Continuing Calibration Blank	B (249.772 nm)	0.0024 (ppm)	7.10	0.0024 (ppm)	140.5726
3/15/2018 21:26:49	Continuing Calibration Blank	Ba (230.424 nm)	0.0064 (ppm)	13.25	0.0064 (ppm)	193.0854
3/15/2018 21:26:49	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	7.35	0.0002 (ppm)	-375.2851
3/15/2018 21:26:49	Continuing Calibration Blank	Ca (227.547 nm)	0.0121 u (ppm)	> 100.00	0.0121 (ppm)	6.8345
3/15/2018 21:26:49	Continuing Calibration Blank	Cd (214.439 nm)	0.0003 (ppm)	40.73	0.0003 (ppm)	22.5101
3/15/2018 21:26:49	Continuing Calibration Blank	Co (230.786 nm)	0.0017 (ppm)	11.69	0.0017 (ppm)	11.8573
3/15/2018 21:26:49	Continuing Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	19.44	0.0003 (ppm)	8.9122
3/15/2018 21:26:49	Continuing Calibration Blank	Cu (327.395 nm)	0.0007 (ppm)	21.36	0.0007 (ppm)	45.4782
3/15/2018 21:26:49	Continuing Calibration Blank	Fe (234.350 nm)	0.0042 (ppm)	7.84	0.0042 (ppm)	59.3190
3/15/2018 21:26:49	Continuing Calibration Blank	K (766.491 nm)	0.0250 (ppm)	5.39	0.0250 (ppm)	55.2843
3/15/2018 21:26:49	Continuing Calibration Blank	Mg (279.078 nm)	0.0162 (ppm)	7.24	0.0162 (ppm)	24.4623
3/15/2018 21:26:49	Continuing Calibration Blank	Mn (257.610 nm)	0.0005 (ppm)	5.59	0.0005 (ppm)	142.2005
3/15/2018 21:26:49	Continuing Calibration Blank	Mo (202.032 nm)	0.0038 (ppm)	2.77	0.0038 (ppm)	38.8491
3/15/2018 21:26:49	Continuing Calibration Blank	Na (588.995 nm)	0.0266 (ppm)	2.54	0.0266 (ppm)	-7544.5034
3/15/2018 21:26:49	Continuing Calibration Blank	Ni (230.299 nm)	0.0020 (ppm)	14.83	0.0020 (ppm)	-10.5667
3/15/2018 21:26:49	Continuing Calibration Blank	Pb (220.353 nm)	0.0005 (ppm)	54.95	0.0005 (ppm)	7.1210
3/15/2018 21:26:49	Continuing Calibration Blank	Sb (217.582 nm)	0.0082 (ppm)	4.35	0.0082 (ppm)	10.3028
3/15/2018 21:26:49	Continuing Calibration Blank	Se (196.026 nm)	0.0058 (ppm)	79.33	0.0058 (ppm)	7.2205
3/15/2018 21:26:49	Continuing Calibration Blank	Sn (189.925 nm)	0.0063 (ppm)	38.55	0.0063 (ppm)	6.3783
3/15/2018 21:26:49	Continuing Calibration Blank	Sr (216.596 nm)	0.0012 (ppm)	29.25	0.0012 (ppm)	13.2140
3/15/2018 21:26:49	Continuing Calibration Blank	Ti (336.122 nm)	0.0023 (ppm)	4.40	0.0023 (ppm)	-235.1176
3/15/2018 21:26:49	Continuing Calibration Blank	Tl (351.923 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	19.2577
3/15/2018 21:26:49	Continuing Calibration Blank	V (292.401 nm)	0.0015 (ppm)	6.99	0.0015 (ppm)	179.6495
3/15/2018 21:26:49	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.62	1.02 (Ratio)	759739.80
3/15/2018 21:26:49	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.62	1.02 (Ratio)	759979.85
3/15/2018 21:26:49	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	15.51	0.0005 (ppm)	-12.2480
3/15/2018 21:30:08	R1801942-006A	Ag (328.068 nm)	0.0506 (ppm)	1.24	0.0506 (ppm)	3017.7851
3/15/2018 21:30:08	R1801942-006A	Al (394.401 nm)	1.9046 (ppm)	1.09	1.9046 (ppm)	20235.6370
3/15/2018 21:30:08	R1801942-006A	As (188.980 nm)	0.0436 (ppm)	5.49	0.0436 (ppm)	33.6106
3/15/2018 21:30:08	R1801942-006A	B (249.772 nm)	0.9913 (ppm)	0.92	0.9913 (ppm)	26579.5426

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:30:08	R1801942-006A	Be (230.424 nm)	2.1206 (ppm)	0.18	2.1206 (ppm)	61744.3089
3/15/2018 21:30:08	R1801942-006A	Be (313.107 nm)	0.0491 (ppm)	0.82	0.0491 (ppm)	64130.3314
3/15/2018 21:30:08	R1801942-006A	Ca (227.547 nm)	48.5868 (ppm)	1.03	48.5868 (ppm)	2298.6696
3/15/2018 21:30:08	R1801942-006A	Cd (214.439 nm)	0.0502 (ppm)	0.98	0.0502 (ppm)	1054.6123
3/15/2018 21:30:08	R1801942-006A	Co (230.786 nm)	0.4922 (ppm)	0.89	0.4922 (ppm)	4547.2472
3/15/2018 21:30:08	R1801942-006A	Cr (267.716 nm)	0.2007 (ppm)	0.77	0.2007 (ppm)	8583.5117
3/15/2018 21:30:08	R1801942-006A	Cu (327.395 nm)	0.2385 (ppm)	0.48	0.2385 (ppm)	12024.6674
3/15/2018 21:30:08	R1801942-006A	Fe (234.350 nm)	1.0341 (ppm)	0.73	1.0341 (ppm)	10135.9906
3/15/2018 21:30:08	R1801942-006A	K (766.491 nm)	20.4468 (ppm)	1.17	20.4468 (ppm)	48885.6104
3/15/2018 21:30:08	R1801942-006A	Mg (279.078 nm)	20.1500 (ppm)	0.87	20.1500 (ppm)	37123.2518
3/15/2018 21:30:08	R1801942-006A	Mn (257.610 nm)	0.5430 (ppm)	0.87	0.5430 (ppm)	148956.6551
3/15/2018 21:30:08	R1801942-006A	Mo (202.032 nm)	0.4898 (ppm)	0.86	0.4898 (ppm)	4361.4428
3/15/2018 21:30:08	R1801942-006A	Na (588.995 nm)	36.1353 (ppm)	0.98	36.1353 (ppm)	1251755.7535
3/15/2018 21:30:08	R1801942-006A	Ni (230.299 nm)	0.4778 (ppm)	1.11	0.4778 (ppm)	2981.6995
3/15/2018 21:30:08	R1801942-006A	Pb (220.353 nm)	0.4915 (ppm)	0.57	0.4915 (ppm)	1004.2896
3/15/2018 21:30:08	R1801942-006A	Sb (217.582 nm)	0.5085 (ppm)	2.48	0.5085 (ppm)	648.6854
3/15/2018 21:30:08	R1801942-006A	Se (196.026 nm)	1.0750 (ppm)	1.40	1.0750 (ppm)	816.3418
3/15/2018 21:30:08	R1801942-006A	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6254
3/15/2018 21:30:08	R1801942-006A	Sr (216.596 nm)	0.1186 (ppm)	1.62	0.1186 (ppm)	1530.3973
3/15/2018 21:30:08	R1801942-006A	Ti (336.122 nm)	0.4870 (ppm)	0.45	0.4870 (ppm)	83245.3761
3/15/2018 21:30:08	R1801942-006A	Tl (351.923 nm)	1.8839 (ppm)	1.22	1.8839 (ppm)	4133.1309
3/15/2018 21:30:08	R1801942-006A	V (292.401 nm)	0.4864 (ppm)	0.95	0.4864 (ppm)	15052.1233
3/15/2018 21:30:08	R1801942-006A	Y (360.074 nm)	1.01 (Ratio)	0.72	1.01 (Ratio)	748897.31
3/15/2018 21:30:08	R1801942-006A	Y_R (360.074 nm)	1.01 (Ratio)	0.72	1.01 (Ratio)	749221.14
3/15/2018 21:30:08	R1801942-006A	Zn (213.857 nm)	0.4743 (ppm)	1.76	0.4743 (ppm)	13329.7307
3/15/2018 21:33:27	R1801942-006L	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-100.9952
3/15/2018 21:33:27	R1801942-006L	Al (394.401 nm)	0.0087 (ppm)	3.83	0.0087 (ppm)	204.5949
3/15/2018 21:33:27	R1801942-006L	As (188.980 nm)	0.0015 (ppm)	96.75	0.0015 (ppm)	-2.9850
3/15/2018 21:33:27	R1801942-006L	B (249.772 nm)	0.0045 (ppm)	1.89	0.0045 (ppm)	196.9777
3/15/2018 21:33:27	R1801942-006L	Ba (230.424 nm)	0.0221 (ppm)	1.50	0.0221 (ppm)	650.5441
3/15/2018 21:33:27	R1801942-006L	Be (313.107 nm)	0.0000 (ppm)	65.06	0.0000 (ppm)	-544.4545
3/15/2018 21:33:27	R1801942-006L	Ca (227.547 nm)	9.0729 (ppm)	1.32	9.0729 (ppm)	434.3370
3/15/2018 21:33:27	R1801942-006L	Cd (214.439 nm)	-0.0005 u (ppm)	28.32	-0.0005 (ppm)	6.8298
3/15/2018 21:33:27	R1801942-006L	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-3.0694
3/15/2018 21:33:27	R1801942-006L	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.9185
3/15/2018 21:33:27	R1801942-006L	Cu (327.395 nm)	0.0001 (ppm)	46.33	0.0001 (ppm)	14.9656
3/15/2018 21:33:27	R1801942-006L	Fe (234.350 nm)	0.0091 (ppm)	2.15	0.0091 (ppm)	107.6318
3/15/2018 21:33:27	R1801942-006L	K (766.491 nm)	0.2042 (ppm)	1.14	0.2042 (ppm)	483.8546
3/15/2018 21:33:27	R1801942-006L	Mg (279.078 nm)	3.7091 (ppm)	1.09	3.7091 (ppm)	6829.0088
3/15/2018 21:33:27	R1801942-006L	Mn (257.610 nm)	0.0102 (ppm)	0.51	0.0102 (ppm)	2814.5485
3/15/2018 21:33:27	R1801942-006L	Mo (202.032 nm)	0.0011 (ppm)	10.61	0.0011 (ppm)	15.1945
3/15/2018 21:33:27	R1801942-006L	Na (588.995 nm)	3.5089 (ppm)	1.17	3.5089 (ppm)	113900.2180
3/15/2018 21:33:27	R1801942-006L	Ni (230.299 nm)	0.0009 (ppm)	56.24	0.0009 (ppm)	-17.4001
3/15/2018 21:33:27	R1801942-006L	Pb (220.353 nm)	-0.0020 u (ppm)	42.27	-0.0020 (ppm)	2.0264
3/15/2018 21:33:27	R1801942-006L	Sb (217.582 nm)	0.0045 (ppm)	27.43	0.0045 (ppm)	5.5478
3/15/2018 21:33:27	R1801942-006L	Se (196.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	3.8357
3/15/2018 21:33:27	R1801942-006L	Sn (189.925 nm)	0.0012 (ppm)	61.87	0.0012 (ppm)	0.5336
3/15/2018 21:33:27	R1801942-006L	Sr (216.596 nm)	0.0245 (ppm)	0.99	0.0245 (ppm)	313.4452
3/15/2018 21:33:27	R1801942-006L	Ti (336.122 nm)	0.0023 (ppm)	6.22	0.0023 (ppm)	-241.7822
3/15/2018 21:33:27	R1801942-006L	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	22.9440
3/15/2018 21:33:27	R1801942-006L	V (292.401 nm)	0.0003 (ppm)	99.67	0.0003 (ppm)	141.5548

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:33:27	R1801942-006L	Y (360.074 nm)	1.03 (Ratio)	1.14	1.03 (Ratio)	768939.98
3/15/2018 21:33:27	R1801942-006L	Y_R (360.074 nm)	1.03 (Ratio)	1.14	1.03 (Ratio)	769203.61
3/15/2018 21:33:27	R1801942-006L	Zn (213.857 nm)	0.0052 (ppm)	0.57	0.0052 (ppm)	120.1863
3/15/2018 21:36:45	R1801942-007	Ag (328.068 nm)	-0.0002 u (ppm)	36.00	-0.0002 (ppm)	-109.8494
3/15/2018 21:36:45	R1801942-007	Al (394.401 nm)	0.3199 (ppm)	0.42	0.3199 (ppm)	3492.5280
3/15/2018 21:36:45	R1801942-007	As (188.980 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-2.6791
3/15/2018 21:36:45	R1801942-007	B (249.772 nm)	0.0246 (ppm)	0.92	0.0246 (ppm)	732.0157
3/15/2018 21:36:45	R1801942-007	Ba (230.424 nm)	0.0276 (ppm)	0.43	0.0276 (ppm)	809.2543
3/15/2018 21:36:45	R1801942-007	Be (313.107 nm)	0.0000 (ppm)	56.20	0.0000 (ppm)	-559.4317
3/15/2018 21:36:45	R1801942-007	Ca (227.547 nm)	54.9428 o (ppm)	0.39	54.9428 (ppm)	2598.5569
3/15/2018 21:36:45	R1801942-007	Cd (214.439 nm)	-0.0001 u (ppm)	88.87	-0.0001 (ppm)	14.7105
3/15/2018 21:36:45	R1801942-007	Co (230.786 nm)	0.0003 (ppm)	48.33	0.0003 (ppm)	-1.3702
3/15/2018 21:36:45	R1801942-007	Cr (267.716 nm)	0.0002 (ppm)	5.60	0.0002 (ppm)	4.4994
3/15/2018 21:36:45	R1801942-007	Cu (327.395 nm)	0.0018 (ppm)	8.54	0.0018 (ppm)	100.7707
3/15/2018 21:36:45	R1801942-007	Fe (234.350 nm)	0.4362 (ppm)	0.28	0.4362 (ppm)	4285.7717
3/15/2018 21:36:45	R1801942-007	K (766.491 nm)	0.9545 (ppm)	0.97	0.9545 (ppm)	2277.8562
3/15/2018 21:36:45	R1801942-007	Mg (279.078 nm)	13.5468 (ppm)	0.34	13.5468 (ppm)	24956.1399
3/15/2018 21:36:45	R1801942-007	Mn (257.610 nm)	0.5415 (ppm)	0.34	0.5415 (ppm)	148541.8633
3/15/2018 21:36:45	R1801942-007	Mo (202.032 nm)	0.0004 (ppm)	91.57	0.0004 (ppm)	8.7272
3/15/2018 21:36:45	R1801942-007	Na (588.995 nm)	15.1647 (ppm)	0.63	15.1647 (ppm)	520401.6748
3/15/2018 21:36:45	R1801942-007	Ni (230.299 nm)	-0.0023 u (ppm)	19.30	-0.0023 (ppm)	-37.6416
3/15/2018 21:36:45	R1801942-007	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	3.6936
3/15/2018 21:36:45	R1801942-007	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.3872
3/15/2018 21:36:45	R1801942-007	Se (196.026 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	1.6893
3/15/2018 21:36:45	R1801942-007	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.7531
3/15/2018 21:36:45	R1801942-007	Sr (216.596 nm)	0.0825 (ppm)	0.52	0.0825 (ppm)	1063.5511
3/15/2018 21:36:45	R1801942-007	Ti (336.122 nm)	0.0041 (ppm)	6.58	0.0041 (ppm)	60.8433
3/15/2018 21:36:45	R1801942-007	Tl (351.923 nm)	-0.0048 u (ppm)	79.95	-0.0048 (ppm)	14.2922
3/15/2018 21:36:45	R1801942-007	V (292.401 nm)	0.0005 (ppm)	23.92	0.0005 (ppm)	149.8189
3/15/2018 21:36:45	R1801942-007	Y (360.074 nm)	1.01 (Ratio)	0.60	1.01 (Ratio)	754802.55
3/15/2018 21:36:45	R1801942-007	Y_R (360.074 nm)	1.01 (Ratio)	0.60	1.01 (Ratio)	755031.28
3/15/2018 21:36:45	R1801942-007	Zn (213.857 nm)	0.0052 (ppm)	2.53	0.0052 (ppm)	119.8822
3/15/2018 21:40:04	R1801942-008	Ag (328.068 nm)	-0.0003 u (ppm)	31.99	-0.0003 (ppm)	-113.4772
3/15/2018 21:40:04	R1801942-008	Al (394.401 nm)	0.1043 (ppm)	0.53	0.1043 (ppm)	1214.4624
3/15/2018 21:40:04	R1801942-008	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-3.8499
3/15/2018 21:40:04	R1801942-008	B (249.772 nm)	0.0077 (ppm)	1.77	0.0077 (ppm)	281.3341
3/15/2018 21:40:04	R1801942-008	Ba (230.424 nm)	0.0138 (ppm)	1.15	0.0138 (ppm)	408.4970
3/15/2018 21:40:04	R1801942-008	Be (313.107 nm)	0.0000 (ppm)	32.36	0.0000 (ppm)	-563.9635
3/15/2018 21:40:04	R1801942-008	Ca (227.547 nm)	15.9735 (ppm)	0.87	15.9735 (ppm)	759.9204
3/15/2018 21:40:04	R1801942-008	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.2791
3/15/2018 21:40:04	R1801942-008	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.5907
3/15/2018 21:40:04	R1801942-008	Cr (267.716 nm)	0.0009 (ppm)	2.89	0.0009 (ppm)	34.3917
3/15/2018 21:40:04	R1801942-008	Cu (327.395 nm)	0.0006 (ppm)	45.36	0.0006 (ppm)	40.6272
3/15/2018 21:40:04	R1801942-008	Fe (234.350 nm)	0.1163 (ppm)	0.71	0.1163 (ppm)	1156.4931
3/15/2018 21:40:04	R1801942-008	K (766.491 nm)	1.3476 (ppm)	0.34	1.3476 (ppm)	3217.7805
3/15/2018 21:40:04	R1801942-008	Mg (279.078 nm)	7.6332 (ppm)	0.61	7.6332 (ppm)	14059.5773
3/15/2018 21:40:04	R1801942-008	Mn (257.610 nm)	0.0258 (ppm)	0.49	0.0258 (ppm)	7076.5267
3/15/2018 21:40:04	R1801942-008	Mo (202.032 nm)	0.0011 (ppm)	42.47	0.0011 (ppm)	14.4677
3/15/2018 21:40:04	R1801942-008	Na (588.995 nm)	9.0946 (ppm)	0.69	9.0946 (ppm)	308704.1401
3/15/2018 21:40:04	R1801942-008	Ni (230.299 nm)	-0.0020 u (ppm)	5.95	-0.0020 (ppm)	-35.7200
3/15/2018 21:40:04	R1801942-008	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	4.4107

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:40:04	R1801942-008	Sb (217.582 nm)	0.0034 (ppm)	41.49	0.0034 (ppm)	4.2092
3/15/2018 21:40:04	R1801942-008	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	3.6897
3/15/2018 21:40:04	R1801942-008	Sn (189.925 nm)	-0.0008 u (ppm)	62.59	-0.0008 (ppm)	-1.7286
3/15/2018 21:40:04	R1801942-008	Sr (216.596 nm)	0.0480 (ppm)	0.79	0.0480 (ppm)	617.8328
3/15/2018 21:40:04	R1801942-008	Ti (336.122 nm)	0.0019 (ppm)	5.30	0.0019 (ppm)	-319.4310
3/15/2018 21:40:04	R1801942-008	Tl (351.923 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	21.5997
3/15/2018 21:40:04	R1801942-008	V (292.401 nm)	0.0003 (ppm)	72.68	0.0003 (ppm)	143.3126
3/15/2018 21:40:04	R1801942-008	Y (360.074 nm)	1.03 (Ratio)	0.85	1.03 (Ratio)	765664.17
3/15/2018 21:40:04	R1801942-008	Y_R (360.074 nm)	1.03 (Ratio)	0.85	1.03 (Ratio)	765896.04
3/15/2018 21:40:04	R1801942-008	Zn (213.857 nm)	0.0024 (ppm)	0.58	0.0024 (ppm)	41.3857
3/15/2018 21:43:22	R1801942-009	Ag (328.068 nm)	-0.0003 u (ppm)	29.47	-0.0003 (ppm)	-116.1204
3/15/2018 21:43:22	R1801942-009	Al (394.401 nm)	0.0730 (ppm)	2.83	0.0730 (ppm)	883.9741
3/15/2018 21:43:22	R1801942-009	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-4.7814
3/15/2018 21:43:22	R1801942-009	B (249.772 nm)	0.2167 (ppm)	2.55	0.2167 (ppm)	5869.5267
3/15/2018 21:43:22	R1801942-009	Ba (230.424 nm)	0.0255 (ppm)	3.10	0.0255 (ppm)	749.2156
3/15/2018 21:43:22	R1801942-009	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-591.6778
3/15/2018 21:43:22	R1801942-009	Ca (227.547 nm)	49.7739 (ppm)	2.75	49.7739 (ppm)	2354.6770
3/15/2018 21:43:22	R1801942-009	Cd (214.439 nm)	-0.0002 u (ppm)	16.87	-0.0002 (ppm)	12.4298
3/15/2018 21:43:22	R1801942-009	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.4129
3/15/2018 21:43:22	R1801942-009	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.9255
3/15/2018 21:43:22	R1801942-009	Cu (327.395 nm)	0.0013 (ppm)	26.45	0.0013 (ppm)	73.2016
3/15/2018 21:43:22	R1801942-009	Fe (234.350 nm)	0.2431 (ppm)	2.62	0.2431 (ppm)	2397.2425
3/15/2018 21:43:22	R1801942-009	K (766.491 nm)	0.8865 (ppm)	3.15	0.8865 (ppm)	2115.2135
3/15/2018 21:43:22	R1801942-009	Mg (279.078 nm)	16.6461 (ppm)	2.62	16.6461 (ppm)	30666.9910
3/15/2018 21:43:22	R1801942-009	Mn (257.610 nm)	0.2252 (ppm)	2.64	0.2252 (ppm)	61778.5764
3/15/2018 21:43:22	R1801942-009	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.4560
3/15/2018 21:43:22	R1801942-009	Na (588.995 nm)	86.4712 u (ppm)	2.68	86.4712 (ppm)	3007236.8636
3/15/2018 21:43:22	R1801942-009	Ni (230.299 nm)	-0.0047 u (ppm)	23.03	-0.0047 (ppm)	-52.4893
3/15/2018 21:43:22	R1801942-009	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	4.5472
3/15/2018 21:43:22	R1801942-009	Sb (217.582 nm)	0.0043 (ppm)	86.10	0.0043 (ppm)	5.2961
3/15/2018 21:43:22	R1801942-009	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	1.8019
3/15/2018 21:43:22	R1801942-009	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.0645
3/15/2018 21:43:22	R1801942-009	Sr (216.596 nm)	0.2801 (ppm)	2.03	0.2801 (ppm)	3616.3879
3/15/2018 21:43:22	R1801942-009	Ti (336.122 nm)	0.0011 (ppm)	13.52	0.0011 (ppm)	-455.1930
3/15/2018 21:43:22	R1801942-009	Tl (351.923 nm)	-0.0027 u (ppm)	80.80	-0.0027 (ppm)	18.9461
3/15/2018 21:43:22	R1801942-009	V (292.401 nm)	0.0004 (ppm)	77.47	0.0004 (ppm)	146.6570
3/15/2018 21:43:22	R1801942-009	Y (360.074 nm)	0.98 (Ratio)	2.82	0.98 (Ratio)	727787.43
3/15/2018 21:43:22	R1801942-009	Y_R (360.074 nm)	0.98 (Ratio)	2.82	0.98 (Ratio)	728112.86
3/15/2018 21:43:22	R1801942-009	Zn (213.857 nm)	0.0043 (ppm)	4.09	0.0043 (ppm)	92.8034
3/15/2018 21:46:41	R1801942-010	Ag (328.068 nm)	-0.0001 u (ppm)	84.80	-0.0001 (ppm)	-104.2557
3/15/2018 21:46:41	R1801942-010	Al (394.401 nm)	0.1101 (ppm)	2.61	0.1101 (ppm)	1275.6690
3/15/2018 21:46:41	R1801942-010	As (188.980 nm)	0.0039 (ppm)	16.75	0.0039 (ppm)	-0.9671
3/15/2018 21:46:41	R1801942-010	B (249.772 nm)	0.0874 (ppm)	1.23	0.0874 (ppm)	2412.8457
3/15/2018 21:46:41	R1801942-010	Ba (230.424 nm)	0.0202 (ppm)	2.19	0.0202 (ppm)	594.8126
3/15/2018 21:46:41	R1801942-010	Be (313.107 nm)	0.0000 (ppm)	84.01	0.0000 (ppm)	-574.7063
3/15/2018 21:46:41	R1801942-010	Ca (227.547 nm)	62.8905 u (ppm)	1.38	62.8905 (ppm)	2973.5421
3/15/2018 21:46:41	R1801942-010	Cd (214.439 nm)	-0.0002 u (ppm)	41.83	-0.0002 (ppm)	13.2881
3/15/2018 21:46:41	R1801942-010	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-2.3180
3/15/2018 21:46:41	R1801942-010	Cr (267.716 nm)	-0.0001 u (ppm)	45.94	-0.0001 (ppm)	-6.6746
3/15/2018 21:46:41	R1801942-010	Cu (327.395 nm)	0.0003 (ppm)	72.22	0.0003 (ppm)	23.5748
3/15/2018 21:46:41	R1801942-010	Fe (234.350 nm)	0.1510 (ppm)	1.06	0.1510 (ppm)	1495.7938



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:46:41	R1801942-010	K (766.491 nm)	0.9322 (ppm)	1.53	0.9322 (ppm)	2224.5191
3/15/2018 21:46:41	R1801942-010	Mg (279.078 nm)	21.2261 (ppm)	1.16	21.2261 (ppm)	39106.1719
3/15/2018 21:46:41	R1801942-010	Mn (257.610 nm)	0.1908 (ppm)	1.03	0.1908 (ppm)	52353.2900
3/15/2018 21:46:41	R1801942-010	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.0924
3/15/2018 21:46:41	R1801942-010	Na (588.995 nm)	39.9661 (ppm)	1.65	39.9661 (ppm)	1385356.7728
3/15/2018 21:46:41	R1801942-010	Ni (230.299 nm)	-0.0038 u (ppm)	26.63	-0.0038 (ppm)	-46.8989
3/15/2018 21:46:41	R1801942-010	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.7690
3/15/2018 21:46:41	R1801942-010	Sb (217.582 nm)	0.0025 (ppm)	> 100.00	0.0025 (ppm)	3.0198
3/15/2018 21:46:41	R1801942-010	Se (196.026 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	0.5499
3/15/2018 21:46:41	R1801942-010	Sn (189.925 nm)	-0.0015 u (ppm)	32.36	-0.0015 (ppm)	-2.4913
3/15/2018 21:46:41	R1801942-010	Sr (216.596 nm)	0.3459 (ppm)	1.40	0.3459 (ppm)	4467.4172
3/15/2018 21:46:41	R1801942-010	Ti (336.122 nm)	0.0014 (ppm)	2.12	0.0014 (ppm)	-405.4073
3/15/2018 21:46:41	R1801942-010	Tl (351.923 nm)	-0.0052 u (ppm)	45.74	-0.0052 (ppm)	13.4160
3/15/2018 21:46:41	R1801942-010	V (292.401 nm)	0.0007 (ppm)	5.55	0.0007 (ppm)	153.7797
3/15/2018 21:46:41	R1801942-010	Y (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	741392.21
3/15/2018 21:46:41	R1801942-010	Y_R (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	741708.46
3/15/2018 21:46:41	R1801942-010	Zn (213.857 nm)	0.0093 (ppm)	1.38	0.0093 (ppm)	234.0560
3/15/2018 21:50:00	R1801942-011	Ag (328.068 nm)	-0.0002 u (ppm)	42.79	-0.0002 (ppm)	-108.4362
3/15/2018 21:50:00	R1801942-011	Al (394.401 nm)	0.0265 (ppm)	2.50	0.0265 (ppm)	392.7178
3/15/2018 21:50:00	R1801942-011	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-4.7044
3/15/2018 21:50:00	R1801942-011	B (249.772 nm)	0.0173 (ppm)	1.41	0.0173 (ppm)	538.9978
3/15/2018 21:50:00	R1801942-011	Be (230.424 nm)	0.0135 (ppm)	1.52	0.0135 (ppm)	400.4401
3/15/2018 21:50:00	R1801942-011	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-575.5229
3/15/2018 21:50:00	R1801942-011	Ce (227.547 nm)	38.5202 (ppm)	0.71	38.5202 (ppm)	1823.7077
3/15/2018 21:50:00	R1801942-011	Cd (214.439 nm)	-0.0002 u (ppm)	26.52	-0.0002 (ppm)	13.5250
3/15/2018 21:50:00	R1801942-011	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.3502
3/15/2018 21:50:00	R1801942-011	Cr (267.716 nm)	-0.0001 u (ppm)	40.60	-0.0001 (ppm)	-9.6153
3/15/2018 21:50:00	R1801942-011	Cu (327.395 nm)	0.0015 (ppm)	1.55	0.0015 (ppm)	86.1670
3/15/2018 21:50:00	R1801942-011	Fe (234.350 nm)	0.0084 (ppm)	2.59	0.0084 (ppm)	100.6399
3/15/2018 21:50:00	R1801942-011	K (766.491 nm)	0.6652 (ppm)	1.65	0.6652 (ppm)	1586.0476
3/15/2018 21:50:00	R1801942-011	Mg (279.078 nm)	11.4617 (ppm)	0.47	11.4617 (ppm)	21114.0816
3/15/2018 21:50:00	R1801942-011	Mn (257.610 nm)	0.4089 (ppm)	0.35	0.4089 (ppm)	112175.1405
3/15/2018 21:50:00	R1801942-011	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.7522
3/15/2018 21:50:00	R1801942-011	Na (588.995 nm)	10.1822 (ppm)	0.67	10.1822 (ppm)	346634.0748
3/15/2018 21:50:00	R1801942-011	Ni (230.299 nm)	-0.0047 u (ppm)	13.17	-0.0047 (ppm)	-52.8240
3/15/2018 21:50:00	R1801942-011	Pb (220.353 nm)	-0.0024 u (ppm)	48.70	-0.0024 (ppm)	1.2544
3/15/2018 21:50:00	R1801942-011	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	1.3177
3/15/2018 21:50:00	R1801942-011	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	1.7462
3/15/2018 21:50:00	R1801942-011	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.9553
3/15/2018 21:50:00	R1801942-011	Sr (216.596 nm)	0.0603 (ppm)	0.48	0.0603 (ppm)	776.4284
3/15/2018 21:50:00	R1801942-011	Ti (336.122 nm)	0.0008 (ppm)	7.01	0.0008 (ppm)	-495.0478
3/15/2018 21:50:00	R1801942-011	Tl (351.923 nm)	-0.0042 u (ppm)	57.80	-0.0042 (ppm)	15.6969
3/15/2018 21:50:00	R1801942-011	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	133.9011
3/15/2018 21:50:00	R1801942-011	Y (360.074 nm)	1.01 (Ratio)	0.59	1.01 (Ratio)	754299.38
3/15/2018 21:50:00	R1801942-011	Y_R (360.074 nm)	1.01 (Ratio)	0.59	1.01 (Ratio)	754603.15
3/15/2018 21:50:00	R1801942-011	Zn (213.857 nm)	0.0018 (ppm)	5.06	0.0018 (ppm)	22.9556
3/15/2018 21:53:18	R1801942-012	Ag (328.068 nm)	-0.0002 u (ppm)	72.84	-0.0002 (ppm)	-107.9523
3/15/2018 21:53:18	R1801942-012	Al (394.401 nm)	0.0685 (ppm)	1.71	0.0685 (ppm)	836.4252
3/15/2018 21:53:18	R1801942-012	As (188.980 nm)	0.0062 (ppm)	59.28	0.0062 (ppm)	1.0279
3/15/2018 21:53:18	R1801942-012	B (249.772 nm)	0.0798 (ppm)	0.09	0.0798 (ppm)	2208.8315
3/15/2018 21:53:18	R1801942-012	Be (230.424 nm)	0.0300 (ppm)	0.41	0.0300 (ppm)	879.3712

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:53:18	R1801942-012	Be (313.107 nm)	0.0000 (ppm)	42.31	0.0000 (ppm)	-567.7125
3/15/2018 21:53:18	R1801942-012	Ca (227.547 nm)	82.4352 o (ppm)	0.46	82.4352 (ppm)	3895.6926
3/15/2018 21:53:18	R1801942-012	Cd (214.439 nm)	-0.0002 u (ppm)	48.01	-0.0002 (ppm)	13.2703
3/15/2018 21:53:18	R1801942-012	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.7759
3/15/2018 21:53:18	R1801942-012	Cr (267.716 nm)	-0.0002 u (ppm)	81.97	-0.0002 (ppm)	-11.3576
3/15/2018 21:53:18	R1801942-012	Cu (327.395 nm)	0.0004 (ppm)	36.88	0.0004 (ppm)	29.0840
3/15/2018 21:53:18	R1801942-012	Fe (234.350 nm)	0.0780 (ppm)	0.58	0.0780 (ppm)	781.7931
3/15/2018 21:53:18	R1801942-012	K (766.491 nm)	1.0916 (ppm)	0.22	1.0916 (ppm)	2605.5473
3/15/2018 21:53:18	R1801942-012	Mg (279.078 nm)	27.6353 (ppm)	0.35	27.6353 (ppm)	50915.7880
3/15/2018 21:53:18	R1801942-012	Mn (257.610 nm)	0.2432 (ppm)	0.30	0.2432 (ppm)	66731.7778
3/15/2018 21:53:18	R1801942-012	Mo (202.032 nm)	0.0006 (ppm)	6.88	0.0006 (ppm)	10.4261
3/15/2018 21:53:18	R1801942-012	Na (588.995 nm)	49.4801 (ppm)	0.73	49.4801 (ppm)	1717159.8339
3/15/2018 21:53:18	R1801942-012	Ni (230.299 nm)	-0.0042 u (ppm)	9.84	-0.0042 (ppm)	-49.5534
3/15/2018 21:53:18	R1801942-012	Pb (220.353 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	3.2817
3/15/2018 21:53:18	R1801942-012	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	0.8644
3/15/2018 21:53:18	R1801942-012	Se (196.026 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	1.3107
3/15/2018 21:53:18	R1801942-012	Sn (189.925 nm)	-0.0008 u (ppm)	57.32	-0.0008 (ppm)	-1.7283
3/15/2018 21:53:18	R1801942-012	Sr (216.596 nm)	0.4027 (ppm)	0.47	0.4027 (ppm)	5200.5256
3/15/2018 21:53:18	R1801942-012	Ti (336.122 nm)	0.0013 (ppm)	0.12	0.0013 (ppm)	-408.7998
3/15/2018 21:53:18	R1801942-012	Tl (351.923 nm)	-0.0034 u (ppm)	82.74	-0.0034 (ppm)	17.3021
3/15/2018 21:53:18	R1801942-012	V (292.401 nm)	0.0006 (ppm)	56.07	0.0006 (ppm)	150.5339
3/15/2018 21:53:18	R1801942-012	Y (360.074 nm)	1.00 (Ratio)	0.72	1.00 (Ratio)	740431.46
3/15/2018 21:53:18	R1801942-012	Y_R (360.074 nm)	1.00 (Ratio)	0.72	1.00 (Ratio)	740717.39
3/15/2018 21:53:18	R1801942-012	Zn (213.857 nm)	0.0027 (ppm)	2.18	0.0027 (ppm)	48.4690
3/15/2018 21:56:37	R1801942-013	Ag (328.068 nm)	-0.0002 u (ppm)	26.27	-0.0002 (ppm)	-109.5635
3/15/2018 21:56:37	R1801942-013	Al (394.401 nm)	0.2839 (ppm)	0.30	0.2839 (ppm)	3112.1774
3/15/2018 21:56:37	R1801942-013	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-3.3636
3/15/2018 21:56:37	R1801942-013	B (249.772 nm)	0.0122 (ppm)	2.03	0.0122 (ppm)	400.7332
3/15/2018 21:56:37	R1801942-013	Ba (230.424 nm)	0.0291 (ppm)	0.96	0.0291 (ppm)	853.0325
3/15/2018 21:56:37	R1801942-013	Be (313.107 nm)	0.0000 (ppm)	49.84	0.0000 (ppm)	-544.8262
3/15/2018 21:56:37	R1801942-013	Ca (227.547 nm)	41.0272 (ppm)	0.39	41.0272 (ppm)	1941.9923
3/15/2018 21:56:37	R1801942-013	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.0021
3/15/2018 21:56:37	R1801942-013	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.9305
3/15/2018 21:56:37	R1801942-013	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.4547
3/15/2018 21:56:37	R1801942-013	Cu (327.395 nm)	0.0017 (ppm)	4.84	0.0017 (ppm)	91.5463
3/15/2018 21:56:37	R1801942-013	Fe (234.350 nm)	0.3609 (ppm)	0.33	0.3609 (ppm)	3549.4904
3/15/2018 21:56:37	R1801942-013	K (766.491 nm)	0.9238 (ppm)	0.71	0.9238 (ppm)	2204.3563
3/15/2018 21:56:37	R1801942-013	Mg (279.078 nm)	13.7170 (ppm)	0.39	13.7170 (ppm)	25269.6902
3/15/2018 21:56:37	R1801942-013	Mn (257.610 nm)	0.5734 (ppm)	0.37	0.5734 (ppm)	157289.3053
3/15/2018 21:56:37	R1801942-013	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	3.7949
3/15/2018 21:56:37	R1801942-013	Na (588.995 nm)	9.0918 (ppm)	0.66	9.0918 (ppm)	308607.5552
3/15/2018 21:56:37	R1801942-013	Ni (230.299 nm)	-0.0051 u (ppm)	28.26	-0.0051 (ppm)	-55.2271
3/15/2018 21:56:37	R1801942-013	Pb (220.353 nm)	-0.0017 u (ppm)	29.70	-0.0017 (ppm)	2.5903
3/15/2018 21:56:37	R1801942-013	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	0.8033
3/15/2018 21:56:37	R1801942-013	Se (196.026 nm)	-0.0028 u (ppm)	64.69	-0.0028 (ppm)	0.7011
3/15/2018 21:56:37	R1801942-013	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6278
3/15/2018 21:56:37	R1801942-013	Sr (216.596 nm)	0.0801 (ppm)	0.91	0.0801 (ppm)	1032.0107
3/15/2018 21:56:37	R1801942-013	Ti (336.122 nm)	0.0030 (ppm)	3.92	0.0030 (ppm)	-122.3453
3/15/2018 21:56:37	R1801942-013	Tl (351.923 nm)	-0.0078 u (ppm)	76.77	-0.0078 (ppm)	7.8466
3/15/2018 21:56:37	R1801942-013	V (292.401 nm)	0.0006 (ppm)	9.05	0.0006 (ppm)	153.1962
3/15/2018 21:56:37	R1801942-013	Y (360.074 nm)	1.01 (Ratio)	0.61	1.01 (Ratio)	755137.39

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 21:56:37	R1801942-013	Y_R (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	755374.44
3/15/2018 21:56:37	R1801942-013	Zn (213.857 nm)	0.0069 (ppm)	1.08	0.0069 (ppm)	166.4079
3/15/2018 21:59:56	R1802033-001	Ag (328.068 nm)	-0.0003 u (ppm)	67.33	-0.0003 (ppm)	-113.5054
3/15/2018 21:59:56	R1802033-001	Al (394.401 nm)	0.0680 (ppm)	0.56	0.0680 (ppm)	830.3400
3/15/2018 21:59:56	R1802033-001	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-3.9843
3/15/2018 21:59:56	R1802033-001	B (249.772 nm)	0.0136 (ppm)	0.91	0.0136 (ppm)	438.9938
3/15/2018 21:59:56	R1802033-001	Ba (230.424 nm)	0.0129 (ppm)	1.10	0.0129 (ppm)	381.5660
3/15/2018 21:59:56	R1802033-001	Be (313.107 nm)	0.0000 (ppm)	35.41	0.0000 (ppm)	-545.6611
3/15/2018 21:59:56	R1802033-001	Ca (227.547 nm)	6.4702 (ppm)	0.65	6.4702 (ppm)	311.5357
3/15/2018 21:59:56	R1802033-001	Cd (214.439 nm)	-0.0001 u (ppm)	96.56	-0.0001 (ppm)	14.9995
3/15/2018 21:59:56	R1802033-001	Co (230.786 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	-0.3664
3/15/2018 21:59:56	R1802033-001	Cr (267.716 nm)	0.0001 (ppm)	33.99	0.0001 (ppm)	-0.4752
3/15/2018 21:59:56	R1802033-001	Cu (327.395 nm)	0.0071 (ppm)	1.11	0.0071 (ppm)	367.5810
3/15/2018 21:59:56	R1802033-001	Fe (234.350 nm)	1.3546 (ppm)	0.45	1.3546 (ppm)	13271.7227
3/15/2018 21:59:56	R1802033-001	K (766.491 nm)	1.0063 (ppm)	0.32	1.0063 (ppm)	2401.6838
3/15/2018 21:59:56	R1802033-001	Mg (279.078 nm)	1.4676 (ppm)	0.33	1.4676 (ppm)	2698.8338
3/15/2018 21:59:56	R1802033-001	Mn (257.610 nm)	1.3621 (ppm)	0.46	1.3621 (ppm)	373628.2605
3/15/2018 21:59:56	R1802033-001	Mo (202.032 nm)	0.0002 (ppm)	70.09	0.0002 (ppm)	7.1937
3/15/2018 21:59:56	R1802033-001	Na (588.995 nm)	14.5447 (ppm)	0.70	14.5447 (ppm)	498778.0494
3/15/2018 21:59:56	R1802033-001	Ni (230.299 nm)	-0.0010 u (ppm)	47.95	-0.0010 (ppm)	-29.4487
3/15/2018 21:59:56	R1802033-001	Pb (220.353 nm)	-0.0020 u (ppm)	39.24	-0.0020 (ppm)	1.9678
3/15/2018 21:59:56	R1802033-001	Sb (217.582 nm)	0.0023 (ppm)	76.61	0.0023 (ppm)	2.7465
3/15/2018 21:59:56	R1802033-001	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	3.1394
3/15/2018 21:59:56	R1802033-001	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.7644
3/15/2018 21:59:56	R1802033-001	Sr (216.596 nm)	0.0463 (ppm)	1.74	0.0463 (ppm)	595.2434
3/15/2018 21:59:56	R1802033-001	Ti (336.122 nm)	0.0010 (ppm)	6.72	0.0010 (ppm)	-467.3120
3/15/2018 21:59:56	R1802033-001	Tl (351.923 nm)	-0.0037 u (ppm)	3.66	-0.0037 (ppm)	16.7643
3/15/2018 21:59:56	R1802033-001	V (292.401 nm)	0.0046 (ppm)	6.93	0.0046 (ppm)	275.5927
3/15/2018 21:59:56	R1802033-001	Y (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	761003.53
3/15/2018 21:59:56	R1802033-001	Y_R (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	761232.07
3/15/2018 21:59:56	R1802033-001	Zn (213.857 nm)	0.0560 (ppm)	0.16	0.0560 (ppm)	1548.6910
3/15/2018 22:03:15	Continuing Calibration Verification1	Ag (328.068 nm)	0.4797 (ppm)	0.12	0.4797 (ppm)	29449.8941
3/15/2018 22:03:15	Continuing Calibration Verification1	Al (394.401 nm)	9.4857 (ppm)	0.18	9.4857 (ppm)	100333.6225
3/15/2018 22:03:15	Continuing Calibration Verification1	As (188.980 nm)	1.0032 (ppm)	0.67	1.0032 (ppm)	868.3599
3/15/2018 22:03:15	Continuing Calibration Verification1	B (249.772 nm)	2.4357 (ppm)	0.12	2.4357 (ppm)	65200.7800
3/15/2018 22:03:15	Continuing Calibration Verification1	Ba (230.424 nm)	10.2354 (ppm)	0.27	10.2354 (ppm)	297996.5935
3/15/2018 22:03:15	Continuing Calibration Verification1	Be (313.107 nm)	0.2519 (ppm)	0.06	0.2519 (ppm)	331311.5094
3/15/2018 22:03:15	Continuing Calibration Verification1	Ca (227.547 nm)	23.7449 (ppm)	0.34	23.7449 (ppm)	1126.5866
3/15/2018 22:03:15	Continuing Calibration Verification1	Cd (214.439 nm)	0.5100 (ppm)	0.13	0.5100 (ppm)	10560.3478
3/15/2018 22:03:15	Continuing Calibration Verification1	Co (230.786 nm)	2.5552 (ppm)	0.18	2.5552 (ppm)	23622.2895
3/15/2018 22:03:15	Continuing Calibration Verification1	Cr (267.716 nm)	0.5180 (ppm)	0.10	0.5180 (ppm)	22160.7652
3/15/2018 22:03:15	Continuing Calibration Verification1	Cu (327.395 nm)	1.2031 (ppm)	0.25	1.2031 (ppm)	60630.1996
3/15/2018 22:03:15	Continuing Calibration Verification1	Fe (234.350 nm)	4.9932 (ppm)	0.08	4.9932 (ppm)	48872.5943
3/15/2018 22:03:15	Continuing Calibration Verification1	K (766.491 nm)	24.4479 (ppm)	0.48	24.4479 (ppm)	58452.5533
3/15/2018 22:03:15	Continuing Calibration Verification1	Mg (279.078 nm)	24.8138 (ppm)	0.11	24.8138 (ppm)	45716.8720
3/15/2018 22:03:15	Continuing Calibration Verification1	Mn (257.610 nm)	0.7638 (ppm)	0.07	0.7638 (ppm)	209513.4263
3/15/2018 22:03:15	Continuing Calibration Verification1	Mo (202.032 nm)	2.4978 (ppm)	0.08	2.4978 (ppm)	22221.0357
3/15/2018 22:03:15	Continuing Calibration Verification1	Na (588.995 nm)	24.7905 (ppm)	0.44	24.7905 (ppm)	856104.3210
3/15/2018 22:03:15	Continuing Calibration Verification1	Ni (230.299 nm)	2.0558 (ppm)	0.15	2.0558 (ppm)	12905.1099
3/15/2018 22:03:15	Continuing Calibration Verification1	Pb (220.353 nm)	0.5031 (ppm)	0.56	0.5031 (ppm)	1027.8367
3/15/2018 22:03:15	Continuing Calibration Verification1	Sb (217.582 nm)	5.0686 (ppm)	0.29	5.0686 (ppm)	6467.3289

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:03:15	Continuing Calibration Verification1	Se (196.026 nm)	0.5025 (ppm)	0.44	0.5025 (ppm)	383.1008
3/15/2018 22:03:15	Continuing Calibration Verification1	Sn (189.925 nm)	5.1111 (ppm)	0.38	5.1111 (ppm)	5785.3060
3/15/2018 22:03:15	Continuing Calibration Verification1	Sr (216.596 nm)	2.5277 (ppm)	0.41	2.5277 (ppm)	32661.4740
3/15/2018 22:03:15	Continuing Calibration Verification1	Ti (336.122 nm)	2.4594 (ppm)	0.12	2.4594 (ppm)	422950.2037
3/15/2018 22:03:15	Continuing Calibration Verification1	Ti (351.923 nm)	0.9949 (ppm)	0.24	0.9949 (ppm)	2194.5049
3/15/2018 22:03:15	Continuing Calibration Verification1	V (292.401 nm)	2.5006 (ppm)	0.13	2.5006 (ppm)	76823.2891
3/15/2018 22:03:15	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	0.55	0.99 (Ratio)	738783.14
3/15/2018 22:03:15	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	0.55	0.99 (Ratio)	739025.54
3/15/2018 22:03:15	Continuing Calibration Verification1	Zn (213.857 nm)	0.9717 (ppm)	0.16	0.9717 (ppm)	27339.4825
3/15/2018 22:06:33	Continuing Calibration Blank 1	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-104.9501
3/15/2018 22:06:33	Continuing Calibration Blank 1	Al (394.401 nm)	0.0018 (ppm)	15.76	0.0018 (ppm)	131.4755
3/15/2018 22:06:33	Continuing Calibration Blank 1	As (188.980 nm)	0.0028 (ppm)	23.25	0.0028 (ppm)	-1.8787
3/15/2018 22:06:33	Continuing Calibration Blank 1	B (249.772 nm)	0.0011 (ppm)	26.00	0.0011 (ppm)	104.1999
3/15/2018 22:06:33	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0010 (ppm)	33.03	0.0010 (ppm)	34.5894
3/15/2018 22:06:33	Continuing Calibration Blank 1	Be (313.107 nm)	0.0000 (ppm)	10.29	0.0000 (ppm)	-526.7619
3/15/2018 22:06:33	Continuing Calibration Blank 1	Ca (227.547 nm)	-0.0637 u (ppm)	49.79	-0.0637 (ppm)	3.2570
3/15/2018 22:06:33	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	17.6383
3/15/2018 22:06:33	Continuing Calibration Blank 1	Co (230.786 nm)	0.0003 (ppm)	65.40	0.0003 (ppm)	-0.7280
3/15/2018 22:06:33	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0001 (ppm)	68.05	0.0001 (ppm)	1.2246
3/15/2018 22:06:33	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0002 (ppm)	3.07	0.0002 (ppm)	18.3207
3/15/2018 22:06:33	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0011 (ppm)	55.56	0.0011 (ppm)	28.6820
3/15/2018 22:06:33	Continuing Calibration Blank 1	K (766.491 nm)	0.0050 (ppm)	37.07	0.0050 (ppm)	7.5521
3/15/2018 22:06:33	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0024 (ppm)	82.03	0.0024 (ppm)	-1.0618
3/15/2018 22:06:33	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0001 (ppm)	41.07	0.0001 (ppm)	35.6984
3/15/2018 22:06:33	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0018 (ppm)	6.26	0.0018 (ppm)	21.2962
3/15/2018 22:06:33	Continuing Calibration Blank 1	Na (588.995 nm)	0.0030 (ppm)	32.26	0.0030 (ppm)	-8367.2583
3/15/2018 22:06:33	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0005 (ppm)	36.89	0.0005 (ppm)	-19.8531
3/15/2018 22:06:33	Continuing Calibration Blank 1	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	3.8970
3/15/2018 22:06:33	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0041 (ppm)	38.05	0.0041 (ppm)	5.0516
3/15/2018 22:06:33	Continuing Calibration Blank 1	Se (196.026 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	4.3830
3/15/2018 22:06:33	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0024 (ppm)	63.96	0.0024 (ppm)	1.9598
3/15/2018 22:06:33	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0004 (ppm)	22.53	0.0004 (ppm)	2.3012
3/15/2018 22:06:33	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0009 (ppm)	4.26	0.0009 (ppm)	-475.5794
3/15/2018 22:06:33	Continuing Calibration Blank 1	Ti (351.923 nm)	-0.0029 u (ppm)	81.99	-0.0029 (ppm)	18.5510
3/15/2018 22:06:33	Continuing Calibration Blank 1	V (292.401 nm)	0.0004 (ppm)	50.80	0.0004 (ppm)	145.5823
3/15/2018 22:06:33	Continuing Calibration Blank 1	Y (360.074 nm)	1.02 (Ratio)	0.82	1.02 (Ratio)	758518.53
3/15/2018 22:06:33	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.02 (Ratio)	0.82	1.02 (Ratio)	758700.90
3/15/2018 22:06:33	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0001 (ppm)	28.24	0.0001 (ppm)	-24.9312
3/15/2018 22:09:52	R1802033-001S	Ag (328.068 nm)	0.0481 (ppm)	0.22	0.0481 (ppm)	2864.1607
3/15/2018 22:09:52	R1802033-001S	Al (394.401 nm)	1.8999 (ppm)	0.15	1.8999 (ppm)	20186.0644
3/15/2018 22:09:52	R1802033-001S	As (188.980 nm)	0.0414 (ppm)	5.26	0.0414 (ppm)	31.6579
3/15/2018 22:09:52	R1802033-001S	B (249.772 nm)	0.9644 (ppm)	0.20	0.9644 (ppm)	25860.0588
3/15/2018 22:09:52	R1802033-001S	Ba (230.424 nm)	2.0327 (ppm)	0.64	2.0327 (ppm)	59186.1519
3/15/2018 22:09:52	R1802033-001S	Be (313.107 nm)	0.0486 (ppm)	0.18	0.0486 (ppm)	63497.0499
3/15/2018 22:09:52	R1802033-001S	Ca (227.547 nm)	8.3213 (ppm)	0.60	8.3213 (ppm)	398.8737
3/15/2018 22:09:52	R1802033-001S	Cd (214.439 nm)	0.0503 (ppm)	0.58	0.0503 (ppm)	1057.6927
3/15/2018 22:09:52	R1802033-001S	Co (230.786 nm)	0.5029 (ppm)	0.17	0.5029 (ppm)	4646.4971
3/15/2018 22:09:52	R1802033-001S	Cr (267.716 nm)	0.1998 (ppm)	0.20	0.1998 (ppm)	8542.8558
3/15/2018 22:09:52	R1802033-001S	Cu (327.395 nm)	0.2452 (ppm)	0.32	0.2452 (ppm)	12363.9549
3/15/2018 22:09:52	R1802033-001S	Fe (234.350 nm)	2.8325 (ppm)	0.20	2.8325 (ppm)	27732.2503
3/15/2018 22:09:52	R1802033-001S	K (766.491 nm)	20.0002 (ppm)	0.31	20.0002 (ppm)	47817.6615

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:09:52	R1802033-001S	Mg (279.078 nm)	3.3596 (ppm)	0.22	3.3596 (ppm)	6185.0208
3/15/2018 22:09:52	R1802033-001S	Mn (257.610 nm)	1.8352 (ppm)	0.14	1.8352 (ppm)	503410.7441
3/15/2018 22:09:52	R1802033-001S	Mo (202.032 nm)	0.4829 (ppm)	0.23	0.4829 (ppm)	4299.7536
3/15/2018 22:09:52	R1802033-001S	Na (588.995 nm)	33.2894 (ppm)	0.22	33.2894 (ppm)	1152505.2850
3/15/2018 22:09:52	R1802033-001S	Ni (230.299 nm)	0.4918 (ppm)	0.46	0.4918 (ppm)	3069.6099
3/15/2018 22:09:52	R1802033-001S	Pb (220.353 nm)	0.4938 (ppm)	0.36	0.4938 (ppm)	1009.0359
3/15/2018 22:09:52	R1802033-001S	Sb (217.582 nm)	0.4704 (ppm)	0.11	0.4704 (ppm)	600.0954
3/15/2018 22:09:52	R1802033-001S	Se (196.026 nm)	1.0405 (ppm)	0.56	1.0405 (ppm)	790.2413
3/15/2018 22:09:52	R1802033-001S	Sn (189.925 nm)	4.9781 (ppm)	0.51	4.9781 (ppm)	5634.7389
3/15/2018 22:09:52	R1802033-001S	Sr (216.596 nm)	2.0279 (ppm)	0.46	2.0279 (ppm)	26202.7993
3/15/2018 22:09:52	R1802033-001S	Ti (336.122 nm)	0.4767 (ppm)	0.11	0.4767 (ppm)	81469.0069
3/15/2018 22:09:52	R1802033-001S	Tl (351.923 nm)	1.8276 (ppm)	0.13	1.8276 (ppm)	4010.5350
3/15/2018 22:09:52	R1802033-001S	V (292.401 nm)	0.4881 (ppm)	0.12	0.4881 (ppm)	15102.4688
3/15/2018 22:09:52	R1802033-001S	Y (360.074 nm)	1.02 (Ratio)	0.42	1.02 (Ratio)	758319.19
3/15/2018 22:09:52	R1802033-001S	Y_R (360.074 nm)	1.02 (Ratio)	0.43	1.02 (Ratio)	758587.33
3/15/2018 22:09:52	R1802033-001S	Zn (213.857 nm)	0.5518 (ppm)	0.41	0.5518 (ppm)	15512.8269
3/15/2018 22:13:11	R1802033-001SD	Ag (328.068 nm)	0.0482 (ppm)	0.19	0.0482 (ppm)	2872.7595
3/15/2018 22:13:11	R1802033-001SD	Al (394.401 nm)	1.9091 (ppm)	0.14	1.9091 (ppm)	20282.6579
3/15/2018 22:13:11	R1802033-001SD	As (188.980 nm)	0.0423 (ppm)	6.78	0.0423 (ppm)	32.4379
3/15/2018 22:13:11	R1802033-001SD	B (249.772 nm)	0.9688 (ppm)	0.12	0.9688 (ppm)	25979.9539
3/15/2018 22:13:11	R1802033-001SD	Ba (230.424 nm)	2.0404 (ppm)	0.70	2.0404 (ppm)	59411.2148
3/15/2018 22:13:11	R1802033-001SD	Be (313.107 nm)	0.0489 (ppm)	0.09	0.0489 (ppm)	63894.4452
3/15/2018 22:13:11	R1802033-001SD	Ca (227.547 nm)	8.3151 (ppm)	1.80	8.3151 (ppm)	398.5837
3/15/2018 22:13:11	R1802033-001SD	Cd (214.439 nm)	0.0507 (ppm)	0.49	0.0507 (ppm)	1064.8271
3/15/2018 22:13:11	R1802033-001SD	Co (230.786 nm)	0.5051 (ppm)	0.25	0.5051 (ppm)	4666.8661
3/15/2018 22:13:11	R1802033-001SD	Cr (267.716 nm)	0.2007 (ppm)	0.28	0.2007 (ppm)	8584.5287
3/15/2018 22:13:11	R1802033-001SD	Cu (327.395 nm)	0.2450 (ppm)	0.33	0.2450 (ppm)	12353.7761
3/15/2018 22:13:11	R1802033-001SD	Fe (234.350 nm)	2.8418 (ppm)	0.02	2.8418 (ppm)	27823.1102
3/15/2018 22:13:11	R1802033-001SD	K (766.491 nm)	20.1193 (ppm)	0.29	20.1193 (ppm)	48102.5574
3/15/2018 22:13:11	R1802033-001SD	Mg (279.078 nm)	3.3707 (ppm)	0.16	3.3707 (ppm)	6205.4008
3/15/2018 22:13:11	R1802033-001SD	Mn (257.610 nm)	1.8379 (ppm)	0.10	1.8379 (ppm)	504164.2829
3/15/2018 22:13:11	R1802033-001SD	Mo (202.032 nm)	0.4861 (ppm)	0.25	0.4861 (ppm)	4328.4150
3/15/2018 22:13:11	R1802033-001SD	Na (588.995 nm)	33.3673 (ppm)	0.36	33.3673 (ppm)	1155223.0950
3/15/2018 22:13:11	R1802033-001SD	Ni (230.299 nm)	0.4939 (ppm)	0.27	0.4939 (ppm)	3083.0744
3/15/2018 22:13:11	R1802033-001SD	Pb (220.353 nm)	0.4973 (ppm)	0.31	0.4973 (ppm)	1016.0858
3/15/2018 22:13:11	R1802033-001SD	Sb (217.582 nm)	0.4709 (ppm)	0.24	0.4709 (ppm)	600.6289
3/15/2018 22:13:11	R1802033-001SD	Se (196.026 nm)	1.0497 (ppm)	0.59	1.0497 (ppm)	797.2199
3/15/2018 22:13:11	R1802033-001SD	Sn (189.925 nm)	4.9930 (ppm)	0.28	4.9930 (ppm)	5651.5458
3/15/2018 22:13:11	R1802033-001SD	Sr (216.596 nm)	2.0426 (ppm)	0.32	2.0426 (ppm)	26393.5959
3/15/2018 22:13:11	R1802033-001SD	Ti (336.122 nm)	0.4800 (ppm)	0.18	0.4800 (ppm)	82037.3970
3/15/2018 22:13:11	R1802033-001SD	Tl (351.923 nm)	1.8377 (ppm)	0.28	1.8377 (ppm)	4032.3995
3/15/2018 22:13:11	R1802033-001SD	V (292.401 nm)	0.4901 (ppm)	0.15	0.4901 (ppm)	15164.9375
3/15/2018 22:13:11	R1802033-001SD	Y (360.074 nm)	1.02 (Ratio)	0.38	1.02 (Ratio)	760029.59
3/15/2018 22:13:11	R1802033-001SD	Y_R (360.074 nm)	1.02 (Ratio)	0.38	1.02 (Ratio)	760258.61
3/15/2018 22:13:11	R1802033-001SD	Zn (213.857 nm)	0.5525 (ppm)	0.43	0.5525 (ppm)	15532.0344
3/15/2018 22:16:29	R1802033-001A	Ag (328.068 nm)	0.0505 (ppm)	0.70	0.0505 (ppm)	3011.8900
3/15/2018 22:16:29	R1802033-001A	Al (394.401 nm)	1.9013 (ppm)	0.29	1.9013 (ppm)	20200.4383
3/15/2018 22:16:29	R1802033-001A	As (188.980 nm)	0.0432 (ppm)	1.62	0.0432 (ppm)	33.2082
3/15/2018 22:16:29	R1802033-001A	B (249.772 nm)	0.9750 (ppm)	0.14	0.9750 (ppm)	26144.8053
3/15/2018 22:16:29	R1802033-001A	Be (313.107 nm)	0.0490 (ppm)	0.27	0.0490 (ppm)	59339.5547
3/15/2018 22:16:29	R1802033-001A	Be (313.107 nm)	0.0490 (ppm)	0.31	0.0490 (ppm)	63923.7904

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:16:29	R1802033-001A	Ca (227.547 nm)	8.2925 (ppm)	0.45	8.2925 (ppm)	397.5153
3/15/2018 22:16:29	R1802033-001A	Cd (214.439 nm)	0.0509 (ppm)	0.05	0.0509 (ppm)	1070.1268
3/15/2018 22:16:29	R1802033-001A	Co (230.786 nm)	0.5075 (ppm)	0.50	0.5075 (ppm)	4688.4316
3/15/2018 22:16:29	R1802033-001A	Cr (267.716 nm)	0.2014 (ppm)	0.21	0.2014 (ppm)	8613.1162
3/15/2018 22:16:29	R1802033-001A	Cu (327.395 nm)	0.2473 (ppm)	0.38	0.2473 (ppm)	12468.7783
3/15/2018 22:16:29	R1802033-001A	Fe (234.350 nm)	2.3069 (ppm)	0.23	2.3069 (ppm)	22589.5181
3/15/2018 22:16:29	R1802033-001A	K (766.491 nm)	20.0804 (ppm)	0.45	20.0804 (ppm)	48009.3826
3/15/2018 22:16:29	R1802033-001A	Mg (279.078 nm)	3.3579 (ppm)	0.26	3.3579 (ppm)	6181.9120
3/15/2018 22:16:29	R1802033-001A	Mn (257.610 nm)	1.8134 o (ppm)	0.19	1.8134 (ppm)	497426.6019
3/15/2018 22:16:29	R1802033-001A	Mo (202.032 nm)	0.4890 (ppm)	0.15	0.4890 (ppm)	4354.2934
3/15/2018 22:16:29	R1802033-001A	Na (588.995 nm)	33.1977 (ppm)	0.48	33.1977 (ppm)	1149306.4883
3/15/2018 22:16:29	R1802033-001A	Ni (230.299 nm)	0.4968 (ppm)	0.20	0.4968 (ppm)	3100.9877
3/15/2018 22:16:29	R1802033-001A	Pb (220.353 nm)	0.4990 (ppm)	0.30	0.4990 (ppm)	1019.6366
3/15/2018 22:16:29	R1802033-001A	Sb (217.582 nm)	0.5072 (ppm)	0.25	0.5072 (ppm)	647.0650
3/15/2018 22:16:29	R1802033-001A	Se (196.026 nm)	1.0932 o (ppm)	0.56	1.0932 (ppm)	830.1255
3/15/2018 22:16:29	R1802033-001A	Sn (189.925 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	0.8974
3/15/2018 22:16:29	R1802033-001A	Sr (216.596 nm)	0.0461 (ppm)	1.76	0.0461 (ppm)	593.2659
3/15/2018 22:16:29	R1802033-001A	Ti (336.122 nm)	0.4868 (ppm)	0.25	0.4868 (ppm)	83201.5234
3/15/2018 22:16:29	R1802033-001A	Tl (351.923 nm)	1.8475 (ppm)	0.42	1.8475 (ppm)	4053.9127
3/15/2018 22:16:29	R1802033-001A	V (292.401 nm)	0.4880 (ppm)	0.23	0.4880 (ppm)	15100.3177
3/15/2018 22:16:29	R1802033-001A	Y (360.074 nm)	1.02 (Ratio)	0.57	1.02 (Ratio)	755181.46
3/15/2018 22:16:29	R1802033-001A	Y_R (360.074 nm)	1.02 (Ratio)	0.58	1.02 (Ratio)	755411.49
3/15/2018 22:16:29	R1802033-001A	Zn (213.857 nm)	0.5350 (ppm)	0.16	0.5350 (ppm)	15040.0511
3/15/2018 22:19:48	R1802033-001L	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-105.4755
3/15/2018 22:19:48	R1802033-001L	Al (394.401 nm)	0.0148 (ppm)	0.87	0.0148 (ppm)	268.4493
3/15/2018 22:19:48	R1802033-001L	As (188.980 nm)	0.0020 (ppm)	74.98	0.0020 (ppm)	-2.6036
3/15/2018 22:19:48	R1802033-001L	B (249.772 nm)	0.0034 (ppm)	4.61	0.0034 (ppm)	167.6969
3/15/2018 22:19:48	R1802033-001L	Ba (230.424 nm)	0.0033 (ppm)	8.04	0.0033 (ppm)	102.4303
3/15/2018 22:19:48	R1802033-001L	Be (313.107 nm)	0.0000 (ppm)	41.36	0.0000 (ppm)	-552.2290
3/15/2018 22:19:48	R1802033-001L	Ca (227.547 nm)	1.2597 (ppm)	6.05	1.2597 (ppm)	65.6969
3/15/2018 22:19:48	R1802033-001L	Cd (214.439 nm)	-0.0003 u (ppm)	29.41	-0.0003 (ppm)	9.9507
3/15/2018 22:19:48	R1802033-001L	Co (230.786 nm)	0.0004 (ppm)	45.73	0.0004 (ppm)	0.1931
3/15/2018 22:19:48	R1802033-001L	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-4.9337
3/15/2018 22:19:48	R1802033-001L	Cu (327.395 nm)	0.0017 (ppm)	2.95	0.0017 (ppm)	94.0590
3/15/2018 22:19:48	R1802033-001L	Fe (234.350 nm)	0.2772 (ppm)	1.03	0.2772 (ppm)	2730.8605
3/15/2018 22:19:48	R1802033-001L	K (766.491 nm)	0.2117 (ppm)	4.15	0.2117 (ppm)	501.7904
3/15/2018 22:19:48	R1802033-001L	Mg (279.078 nm)	0.2992 (ppm)	1.01	0.2992 (ppm)	545.8396
3/15/2018 22:19:48	R1802033-001L	Mn (257.610 nm)	0.2819 (ppm)	1.07	0.2819 (ppm)	77334.2936
3/15/2018 22:19:48	R1802033-001L	Mo (202.032 nm)	0.0012 (ppm)	8.54	0.0012 (ppm)	15.3600
3/15/2018 22:19:48	R1802033-001L	Na (588.995 nm)	3.0348 (ppm)	1.04	3.0348 (ppm)	97367.7532
3/15/2018 22:19:48	R1802033-001L	Ni (230.299 nm)	0.0015 (ppm)	58.58	0.0015 (ppm)	-13.3410
3/15/2018 22:19:48	R1802033-001L	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	6.3521
3/15/2018 22:19:48	R1802033-001L	Sb (217.582 nm)	0.0033 (ppm)	31.37	0.0033 (ppm)	3.9757
3/15/2018 22:19:48	R1802033-001L	Se (196.026 nm)	-0.0022 u (ppm)	53.53	-0.0022 (ppm)	1.1237
3/15/2018 22:19:48	R1802033-001L	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	0.6548
3/15/2018 22:19:48	R1802033-001L	Sr (216.596 nm)	0.0096 (ppm)	2.74	0.0096 (ppm)	120.9886
3/15/2018 22:19:48	R1802033-001L	Ti (336.122 nm)	0.0023 (ppm)	7.20	0.0023 (ppm)	-241.6145
3/15/2018 22:19:48	R1802033-001L	Tl (351.923 nm)	-0.0046 u (ppm)	44.76	-0.0046 (ppm)	14.7234
3/15/2018 22:19:48	R1802033-001L	V (292.401 nm)	0.0009 (ppm)	24.19	0.0009 (ppm)	161.2980
3/15/2018 22:19:48	R1802033-001L	Y (360.074 nm)	1.04 (Ratio)	1.27	1.04 (Ratio)	770167.36
3/15/2018 22:19:48	R1802033-001L	Y_R (360.074 nm)	1.04 (Ratio)	1.27	1.04 (Ratio)	770388.47

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:19:48	R1802033-001L	Zn (213.857 nm)	0.0166 (ppm)	1.47	0.0166 (ppm)	441.7359
3/15/2018 22:23:07	R1802033-002	Ag (328.068 nm)	-0.0003 u (ppm)	11.66	-0.0003 (ppm)	-114.2704
3/15/2018 22:23:07	R1802033-002	Al (394.401 nm)	0.1193 (ppm)	0.83	0.1193 (ppm)	1373.1649
3/15/2018 22:23:07	R1802033-002	As (188.980 nm)	0.0016 (ppm)	78.40	0.0016 (ppm)	-2.9440
3/15/2018 22:23:07	R1802033-002	B (249.772 nm)	0.0146 (ppm)	1.32	0.0146 (ppm)	466.2109
3/15/2018 22:23:07	R1802033-002	Ba (230.424 nm)	0.0154 (ppm)	1.89	0.0154 (ppm)	455.5429
3/15/2018 22:23:07	R1802033-002	Be (313.107 nm)	0.0000 (ppm)	36.47	0.0000 (ppm)	-527.2224
3/15/2018 22:23:07	R1802033-002	Ca (227.547 nm)	6.4926 (ppm)	1.99	6.4926 (ppm)	312.5937
3/15/2018 22:23:07	R1802033-002	Cd (214.439 nm)	0.0000 u (ppm)	82.47	0.0000 (ppm)	16.4958
3/15/2018 22:23:07	R1802033-002	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-1.1955
3/15/2018 22:23:07	R1802033-002	Cr (267.716 nm)	0.0006 (ppm)	27.72	0.0006 (ppm)	22.3131
3/15/2018 22:23:07	R1802033-002	Cu (327.395 nm)	0.0026 (ppm)	5.63	0.0026 (ppm)	141.3988
3/15/2018 22:23:07	R1802033-002	Fe (234.350 nm)	2.7024 (ppm)	0.21	2.7024 (ppm)	26458.8071
3/15/2018 22:23:07	R1802033-002	K (766.491 nm)	1.0120 (ppm)	0.52	1.0120 (ppm)	2415.2598
3/15/2018 22:23:07	R1802033-002	Mg (279.078 nm)	1.4678 (ppm)	0.24	1.4678 (ppm)	2699.1799
3/15/2018 22:23:07	R1802033-002	Mn (257.610 nm)	1.6109 (ppm)	0.34	1.6109 (ppm)	441885.3437
3/15/2018 22:23:07	R1802033-002	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	7.1903
3/15/2018 22:23:07	R1802033-002	Na (588.995 nm)	14.6441 (ppm)	0.20	14.6441 (ppm)	502243.7377
3/15/2018 22:23:07	R1802033-002	Ni (230.299 nm)	-0.0018 u (ppm)	35.16	-0.0018 (ppm)	-34.0492
3/15/2018 22:23:07	R1802033-002	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.9157
3/15/2018 22:23:07	R1802033-002	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.3842
3/15/2018 22:23:07	R1802033-002	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	1.3490
3/15/2018 22:23:07	R1802033-002	Sn (189.925 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	0.1612
3/15/2018 22:23:07	R1802033-002	Sr (216.596 nm)	0.0465 (ppm)	1.74	0.0465 (ppm)	598.0780
3/15/2018 22:23:07	R1802033-002	Ti (336.122 nm)	0.0013 (ppm)	8.22	0.0013 (ppm)	-418.5440
3/15/2018 22:23:07	R1802033-002	Tl (351.923 nm)	-0.0029 u (ppm)	66.89	-0.0029 (ppm)	18.3979
3/15/2018 22:23:07	R1802033-002	V (292.401 nm)	0.0077 (ppm)	4.36	0.0077 (ppm)	368.3486
3/15/2018 22:23:07	R1802033-002	Y (360.074 nm)	1.03 (Ratio)	0.32	1.03 (Ratio)	767016.93
3/15/2018 22:23:07	R1802033-002	Y_R (360.074 nm)	1.03 (Ratio)	0.32	1.03 (Ratio)	767288.80
3/15/2018 22:23:07	R1802033-002	Zn (213.857 nm)	0.0092 (ppm)	1.71	0.0092 (ppm)	232.1325
3/15/2018 22:26:25	R1802033-003	Ag (328.068 nm)	-0.0002 u (ppm)	46.68	-0.0002 (ppm)	-109.0370
3/15/2018 22:26:25	R1802033-003	Al (394.401 nm)	0.1094 (ppm)	0.99	0.1094 (ppm)	1267.8329
3/15/2018 22:26:25	R1802033-003	As (188.980 nm)	0.0012 (ppm)	44.04	0.0012 (ppm)	-3.3254
3/15/2018 22:26:25	R1802033-003	B (249.772 nm)	0.0141 (ppm)	1.47	0.0141 (ppm)	453.4242
3/15/2018 22:26:25	R1802033-003	Ba (230.424 nm)	0.0129 (ppm)	1.04	0.0129 (ppm)	382.4064
3/15/2018 22:26:25	R1802033-003	Be (313.107 nm)	0.0000 (ppm)	9.77	0.0000 (ppm)	-528.0065
3/15/2018 22:26:25	R1802033-003	Ca (227.547 nm)	6.3966 (ppm)	1.26	6.3966 (ppm)	308.0642
3/15/2018 22:26:25	R1802033-003	Cd (214.439 nm)	-0.0001 u (ppm)	90.99	-0.0001 (ppm)	15.1663
3/15/2018 22:26:25	R1802033-003	Co (230.786 nm)	0.0003 (ppm)	63.55	0.0003 (ppm)	-0.9319
3/15/2018 22:26:25	R1802033-003	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.3326
3/15/2018 22:26:25	R1802033-003	Cu (327.395 nm)	0.0036 (ppm)	3.32	0.0036 (ppm)	192.1153
3/15/2018 22:26:25	R1802033-003	Fe (234.350 nm)	2.3429 (ppm)	0.27	2.3429 (ppm)	22942.1488
3/15/2018 22:26:25	R1802033-003	K (766.491 nm)	1.0062 (ppm)	0.55	1.0062 (ppm)	2401.3412
3/15/2018 22:26:25	R1802033-003	Mg (279.078 nm)	1.4512 (ppm)	0.21	1.4512 (ppm)	2668.5576
3/15/2018 22:26:25	R1802033-003	Mn (257.610 nm)	1.3593 (ppm)	0.30	1.3593 (ppm)	372878.7836
3/15/2018 22:26:25	R1802033-003	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	2.8433
3/15/2018 22:26:25	R1802033-003	Na (588.995 nm)	14.4470 (ppm)	0.65	14.4470 (ppm)	495371.6466
3/15/2018 22:26:25	R1802033-003	Ni (230.299 nm)	-0.0024 u (ppm)	9.08	-0.0024 (ppm)	-37.9286
3/15/2018 22:26:25	R1802033-003	Pb (220.353 nm)	-0.0012 u (ppm)	64.20	-0.0012 (ppm)	3.5641
3/15/2018 22:26:25	R1802033-003	Sb (217.582 nm)	0.0014 (ppm)	64.92	0.0014 (ppm)	1.6643
3/15/2018 22:26:25	R1802033-003	Se (196.026 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	4.6035

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:26:25	R1802033-003	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.0268
3/15/2018 22:26:25	R1802033-003	Sr (216.596 nm)	0.0460 (ppm)	0.65	0.0460 (ppm)	591.5734
3/15/2018 22:26:25	R1802033-003	Ti (336.122 nm)	0.0012 (ppm)	5.86	0.0012 (ppm)	-437.1662
3/15/2018 22:26:25	R1802033-003	Tl (351.923 nm)	-0.0064 u (ppm)	84.69	-0.0064 (ppm)	10.7491
3/15/2018 22:26:25	R1802033-003	V (292.401 nm)	0.0067 (ppm)	1.12	0.0067 (ppm)	338.5478
3/15/2018 22:26:25	R1802033-003	Y (360.074 nm)	1.03 (Ratio)	0.53	1.03 (Ratio)	766535.87
3/15/2018 22:26:25	R1802033-003	Y_R (360.074 nm)	1.03 (Ratio)	0.53	1.03 (Ratio)	766818.15
3/15/2018 22:26:25	R1802033-003	Zn (213.857 nm)	0.0133 (ppm)	0.44	0.0133 (ppm)	348.3236
3/15/2018 22:29:46	R1802075-001	Ag (328.068 nm)	0.0017 (ppm)	4.69	0.0017 (ppm)	4.4211
3/15/2018 22:29:46	R1802075-001	Al (394.401 nm)	0.0123 (ppm)	2.75	0.0123 (ppm)	242.2957
3/15/2018 22:29:46	R1802075-001	As (188.980 nm)	0.0034 (ppm)	67.96	0.0034 (ppm)	-1.4039
3/15/2018 22:29:46	R1802075-001	B (249.772 nm)	0.1011 (ppm)	0.42	0.1011 (ppm)	2779.1729
3/15/2018 22:29:46	R1802075-001	Ba (230.424 nm)	0.0033 (ppm)	1.74	0.0033 (ppm)	101.0095
3/15/2018 22:29:46	R1802075-001	Be (313.107 nm)	0.0000 (ppm)	73.78	0.0000 (ppm)	-598.0238
3/15/2018 22:29:46	R1802075-001	Ca (227.547 nm)	0.7466 (ppm)	5.81	0.7466 (ppm)	41.4877
3/15/2018 22:29:46	R1802075-001	Cd (214.439 nm)	0.0006 (ppm)	28.71	0.0006 (ppm)	28.6301
3/15/2018 22:29:46	R1802075-001	Co (230.786 nm)	0.0025 (ppm)	12.84	0.0025 (ppm)	19.7352
3/15/2018 22:29:46	R1802075-001	Cr (267.716 nm)	0.0032 (ppm)	3.08	0.0032 (ppm)	133.4140
3/15/2018 22:29:46	R1802075-001	LR Cu (327.395 nm)	13.7460 o (ppm)	0.38	13.7460 (ppm)	692627.9965
3/15/2018 22:29:46	R1802075-001	Fe (234.350 nm)	0.4175 (ppm)	0.14	0.4175 (ppm)	4103.3197
3/15/2018 22:29:46	R1802075-001	K (766.491 nm)	0.6039 (ppm)	0.44	0.6039 (ppm)	1439.5276
3/15/2018 22:29:46	R1802075-001	Mg (279.078 nm)	0.1694 (ppm)	0.35	0.1694 (ppm)	306.7600
3/15/2018 22:29:46	R1802075-001	Mn (257.610 nm)	0.0892 (ppm)	0.12	0.0892 (ppm)	24472.6765
3/15/2018 22:29:46	R1802075-001	Mo (202.032 nm)	0.0006 (ppm)	28.45	0.0006 (ppm)	10.8376
3/15/2018 22:29:46	R1802075-001	Na (588.995 nm)	218.5743 o (ppm)	0.37	218.5743 (ppm)	7614372.4523
3/15/2018 22:29:46	R1802075-001	Ni (230.299 nm)	0.1271 (ppm)	0.81	0.1271 (ppm)	776.0689
3/15/2018 22:29:46	R1802075-001	Pb (220.353 nm)	0.1314 (ppm)	0.41	0.1314 (ppm)	272.9126
3/15/2018 22:29:46	R1802075-001	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	1.0958
3/15/2018 22:29:46	R1802075-001	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	2.7005
3/15/2018 22:29:46	R1802075-001	Sn (189.925 nm)	0.0015 (ppm)	31.28	0.0015 (ppm)	0.9568
3/15/2018 22:29:46	R1802075-001	Sr (216.596 nm)	0.0039 (ppm)	9.82	0.0039 (ppm)	46.9876
3/15/2018 22:29:46	R1802075-001	Ti (336.122 nm)	0.0007 (ppm)	2.72	0.0007 (ppm)	-512.6974
3/15/2018 22:29:46	R1802075-001	Tl (351.923 nm)	-0.0043 u (ppm)	26.04	-0.0043 (ppm)	15.4345
3/15/2018 22:29:46	R1802075-001	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	133.8736
3/15/2018 22:29:46	R1802075-001	Y (360.074 nm)	0.99 (Ratio)	0.43	0.99 (Ratio)	739573.20
3/15/2018 22:29:46	R1802075-001	Y_R (360.074 nm)	0.99 (Ratio)	0.43	0.99 (Ratio)	739963.81
3/15/2018 22:29:46	R1802075-001	Zn (213.857 nm)	2.6902 o (ppm)	0.18	2.6902 (ppm)	75737.7828
3/15/2018 22:33:09	Continuing Calibration Verification 1	Ag (328.068 nm)	0.4775 (ppm)	0.38	0.4775 (ppm)	29312.5865
3/15/2018 22:33:09	Continuing Calibration Verification 1	Al (394.401 nm)	9.4819 (ppm)	0.48	9.4819 (ppm)	100293.3745
3/15/2018 22:33:09	Continuing Calibration Verification 1	As (188.980 nm)	0.9982 (ppm)	0.59	0.9982 (ppm)	863.9358
3/15/2018 22:33:09	Continuing Calibration Verification 1	B (249.772 nm)	2.4203 (ppm)	0.41	2.4203 (ppm)	64788.4873
3/15/2018 22:33:09	Continuing Calibration Verification 1	Ba (230.424 nm)	10.1631 (ppm)	0.26	10.1631 (ppm)	295892.9809
3/15/2018 22:33:09	Continuing Calibration Verification 1	Be (313.107 nm)	0.2500 (ppm)	0.52	0.2500 (ppm)	328742.4715
3/15/2018 22:33:09	Continuing Calibration Verification 1	Ca (227.547 nm)	23.6754 (ppm)	0.58	23.6754 (ppm)	1123.3061
3/15/2018 22:33:09	Continuing Calibration Verification 1	Cd (214.439 nm)	0.5064 (ppm)	0.49	0.5064 (ppm)	10486.1221
3/15/2018 22:33:09	Continuing Calibration Verification 1	Co (230.786 nm)	2.5452 (ppm)	0.29	2.5452 (ppm)	23529.8404
3/15/2018 22:33:09	Continuing Calibration Verification 1	Cr (267.716 nm)	0.5152 (ppm)	0.29	0.5152 (ppm)	22037.7647
3/15/2018 22:33:09	Continuing Calibration Verification 1	Cu (327.395 nm)	1.2009 (ppm)	0.59	1.2009 (ppm)	60516.9058
3/15/2018 22:33:09	Continuing Calibration Verification 1	Fe (234.350 nm)	4.9697 (ppm)	0.28	4.9697 (ppm)	48642.6426
3/15/2018 22:33:09	Continuing Calibration Verification 1	K (766.491 nm)	24.4822 (ppm)	0.64	24.4822 (ppm)	58534.5863
3/15/2018 22:33:09	Continuing Calibration Verification 1	Mg (279.078 nm)	24.7110 (ppm)	0.39	24.7110 (ppm)	45527.5081



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:33:09	Continuing Calibration Verification 1	Mn (257.610 nm)	0.7597 (ppm)	0.36	0.7597 (ppm)	208389.0512
3/15/2018 22:33:09	Continuing Calibration Verification 1	Mo (202.032 nm)	2.4798 (ppm)	0.36	2.4798 (ppm)	22061.1064
3/15/2018 22:33:09	Continuing Calibration Verification 1	Na (588.995 nm)	24.8472 (ppm)	0.59	24.8472 (ppm)	858082.1006
3/15/2018 22:33:09	Continuing Calibration Verification 1	Ni (230.299 nm)	2.0489 (ppm)	0.34	2.0489 (ppm)	12861.6898
3/15/2018 22:33:09	Continuing Calibration Verification 1	Pb (220.353 nm)	0.5025 (ppm)	0.40	0.5025 (ppm)	1026.7610
3/15/2018 22:33:09	Continuing Calibration Verification 1	Sb (217.582 nm)	5.0617 (ppm)	0.49	5.0617 (ppm)	6458.5086
3/15/2018 22:33:09	Continuing Calibration Verification 1	Se (196.026 nm)	0.4970 (ppm)	0.69	0.4970 (ppm)	378.9175
3/15/2018 22:33:09	Continuing Calibration Verification 1	Sn (189.925 nm)	5.0955 (ppm)	0.05	5.0955 (ppm)	5767.6368
3/15/2018 22:33:09	Continuing Calibration Verification 1	Sr (216.596 nm)	2.5185 (ppm)	0.15	2.5185 (ppm)	32542.8942
3/15/2018 22:33:09	Continuing Calibration Verification 1	Ti (336.122 nm)	2.4544 (ppm)	0.37	2.4544 (ppm)	422088.4233
3/15/2018 22:33:09	Continuing Calibration Verification 1	Tl (351.923 nm)	1.0000 (ppm)	0.30	1.0000 (ppm)	2205.6355
3/15/2018 22:33:09	Continuing Calibration Verification 1	V (292.401 nm)	2.4899 (ppm)	0.43	2.4899 (ppm)	76496.1196
3/15/2018 22:33:09	Continuing Calibration Verification 1	Y (360.074 nm)	1.00 (Ratio)	0.80	1.00 (Ratio)	744165.93
3/15/2018 22:33:09	Continuing Calibration Verification 1	Y_R (360.074 nm)	1.00 (Ratio)	0.80	1.00 (Ratio)	744509.69
3/15/2018 22:33:09	Continuing Calibration Verification 1	Zn (213.857 nm)	0.9660 (ppm)	0.39	0.9660 (ppm)	27179.5119
3/15/2018 22:36:30	Continuing Calibration Blank 1	Ag (328.068 nm)	-0.0002 u (ppm)	54.39	-0.0002 (ppm)	-106.7411
3/15/2018 22:36:30	Continuing Calibration Blank 1	Al (394.401 nm)	0.0015 (ppm)	26.33	0.0015 (ppm)	128.5405
3/15/2018 22:36:30	Continuing Calibration Blank 1	As (188.980 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-2.6522
3/15/2018 22:36:30	Continuing Calibration Blank 1	B (249.772 nm)	0.0014 (ppm)	9.26	0.0014 (ppm)	114.3593
3/15/2018 22:36:30	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0014 (ppm)	18.33	0.0014 (ppm)	45.8087
3/15/2018 22:36:30	Continuing Calibration Blank 1	Be (313.107 nm)	0.0001 (ppm)	10.01	0.0001 (ppm)	-520.6578
3/15/2018 22:36:30	Continuing Calibration Blank 1	Ca (227.547 nm)	-0.0130 u (ppm)	> 100.00	-0.0130 (ppm)	5.6468
3/15/2018 22:36:30	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0002 (ppm)	41.42	0.0002 (ppm)	20.8871
3/15/2018 22:36:30	Continuing Calibration Blank 1	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.7197
3/15/2018 22:36:30	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5.6502
3/15/2018 22:36:30	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0003 (ppm)	13.40	0.0003 (ppm)	21.6564
3/15/2018 22:36:30	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0012 (ppm)	30.00	0.0012 (ppm)	29.8998
3/15/2018 22:36:30	Continuing Calibration Blank 1	K (766.491 nm)	0.0116 (ppm)	50.42	0.0116 (ppm)	23.3680
3/15/2018 22:36:30	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0024 (ppm)	95.08	0.0024 (ppm)	-0.9322
3/15/2018 22:36:30	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0001 (ppm)	13.99	0.0001 (ppm)	47.7083
3/15/2018 22:36:30	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0020 (ppm)	26.66	0.0020 (ppm)	23.1996
3/15/2018 22:36:30	Continuing Calibration Blank 1	Na (588.995 nm)	0.0124 (ppm)	17.16	0.0124 (ppm)	-8040.4200
3/15/2018 22:36:30	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0007 (ppm)	72.42	0.0007 (ppm)	-18.3518
3/15/2018 22:36:30	Continuing Calibration Blank 1	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.7521
3/15/2018 22:36:30	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0034 (ppm)	60.79	0.0034 (ppm)	4.1953
3/15/2018 22:36:30	Continuing Calibration Blank 1	Se (196.026 nm)	0.0019 (ppm)	> 100.00	0.0019 (ppm)	4.2771
3/15/2018 22:36:30	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0023 (ppm)	38.05	0.0023 (ppm)	1.7878
3/15/2018 22:36:30	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	3.4863
3/15/2018 22:36:30	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0011 (ppm)	3.33	0.0011 (ppm)	-449.0753
3/15/2018 22:36:30	Continuing Calibration Blank 1	Tl (351.923 nm)	-0.0026 u (ppm)	89.56	-0.0026 (ppm)	19.1174
3/15/2018 22:36:30	Continuing Calibration Blank 1	V (292.401 nm)	0.0002 (ppm)	99.37	0.0002 (ppm)	140.1372
3/15/2018 22:36:30	Continuing Calibration Blank 1	Y (360.074 nm)	1.03 (Ratio)	0.41	1.03 (Ratio)	767456.50
3/15/2018 22:36:30	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.03 (Ratio)	0.41	1.03 (Ratio)	767743.88
3/15/2018 22:36:30	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0001 (ppm)	40.08	0.0001 (ppm)	-24.5528
3/15/2018 22:39:50	Contract Required Detection Limit	Ag (328.068 nm)	-0.0002 Ru (ppm)	26.28	-0.0002 (ppm)	-111.1836 R
3/15/2018 22:39:50	Contract Required Detection Limit	Al (394.401 nm)	-0.0036 Ru (ppm)	8.93	-0.0036 (ppm)	73.8409 R
3/15/2018 22:39:50	Contract Required Detection Limit	As (188.980 nm)	0.0036 R (ppm)	33.11	0.0036 (ppm)	-1.2224 R
3/15/2018 22:39:50	Contract Required Detection Limit	B (249.772 nm)	-0.0022 Ru (ppm)	4.09	-0.0022 (ppm)	17.7828 R
3/15/2018 22:39:50	Contract Required Detection Limit	Ba (230.424 nm)	-0.0003 Ru (ppm)	25.65	-0.0003 (ppm)	-1.7248 R
3/15/2018 22:39:50	Contract Required Detection Limit	Be (313.107 nm)	0.0003 R (ppm)	0.62	0.0003 (ppm)	-174.3318 R
3/15/2018 22:39:50	Contract Required Detection Limit	Ca (227.547 nm)	-0.0813 Ru (ppm)	59.03	-0.0813 (ppm)	2.4258 R

WRONG CUP  
SEE END OF  
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Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:39:50	Contract Required Detection Limit	Cd (214.439 nm)	-0.0003 R (ppm)	18.87	-0.0003 (ppm)	10.9589 R
3/15/2018 22:39:50	Contract Required Detection Limit	Co (230.786 nm)	0.0000 R (ppm)	> 100.00	0.0000 (ppm)	-3.5865 R
3/15/2018 22:39:50	Contract Required Detection Limit	Cr (267.716 nm)	0.0000 R (ppm)	40.99	0.0000 (ppm)	-1.9909 R
3/15/2018 22:39:50	Contract Required Detection Limit	Cu (327.395 nm)	-0.0001 Ru (ppm)	81.42	-0.0001 (ppm)	5.4939 R
3/15/2018 22:39:50	Contract Required Detection Limit	Fe (234.350 nm)	-0.0017 Ru (ppm)	10.43	-0.0017 (ppm)	1.8137 R
3/15/2018 22:39:50	Contract Required Detection Limit	K (766.491 nm)	0.0014 Ru (ppm)	> 100.00	0.0014 (ppm)	-1.0956 R
3/15/2018 22:39:50	Contract Required Detection Limit	Mg (279.078 nm)	0.0010 Ru (ppm)	> 100.00	0.0010 (ppm)	-3.5830 R
3/15/2018 22:39:50	Contract Required Detection Limit	Mn (257.610 nm)	0.0000 R (ppm)	6.40	0.0000 (ppm)	7.3444 R
3/15/2018 22:39:50	Contract Required Detection Limit	Mo (202.032 nm)	-0.0002 R (ppm)	> 100.00	-0.0002 (ppm)	3.4082 R
3/15/2018 22:39:50	Contract Required Detection Limit	Na (588.995 nm)	0.0655 R (ppm)	2.42	0.0655 (ppm)	-6187.7900 R
3/15/2018 22:39:50	Contract Required Detection Limit	Ni (230.299 nm)	0.0021 R (ppm)	12.98	0.0021 (ppm)	-9.6436 R
3/15/2018 22:39:50	Contract Required Detection Limit	Pb (220.353 nm)	-0.0014 Ru (ppm)	42.84	-0.0014 (ppm)	3.2633 R
3/15/2018 22:39:50	Contract Required Detection Limit	Sb (217.582 nm)	0.0011 Ru (ppm)	> 100.00	0.0011 (ppm)	1.1824 R
3/15/2018 22:39:50	Contract Required Detection Limit	Se (196.026 nm)	-0.0002 R (ppm)	> 100.00	-0.0002 (ppm)	2.6567 R
3/15/2018 22:39:50	Contract Required Detection Limit	Sn (189.925 nm)	0.0003 Ru (ppm)	> 100.00	0.0003 (ppm)	-0.4026 R
3/15/2018 22:39:50	Contract Required Detection Limit	Sr (216.596 nm)	0.0001 R (ppm)	55.18	0.0001 (ppm)	-1.1036 R
3/15/2018 22:39:50	Contract Required Detection Limit	Ti (336.122 nm)	0.0008 R (ppm)	7.67	0.0008 (ppm)	102.2276 R
3/15/2018 22:39:50	Contract Required Detection Limit	Tl (351.923 nm)	-0.0035 Ru (ppm)	95.22	-0.0035 (ppm)	171.770 R
3/15/2018 22:39:50	Contract Required Detection Limit	V (292.401 nm)	-0.0017 Ru (ppm)	12.57	-0.0017 (ppm)	11.8856 R
3/15/2018 22:39:50	Contract Required Detection Limit	Y (360.074 nm)	1.79 (Ratio)	1.73	1.79 (Ratio)	1332638.99
3/15/2018 22:39:50	Contract Required Detection Limit	Y_R (360.074 nm)	1.79 (Ratio)	1.73	1.79 (Ratio)	1332871.07
3/15/2018 22:39:50	Contract Required Detection Limit	Zn (213.857 nm)	0.0004 R (ppm)	11.17	0.0004 (ppm)	-16.6969 R
3/15/2018 22:43:10	Interference Check Solution A	Ag (328.068 nm)	-0.0002 u (ppm)	6.86	-0.0002 (ppm)	-109.3962
3/15/2018 22:43:10	Interference Check Solution A	Al (394.401 nm)	-0.0038 u (ppm)	7.12	-0.0038 (ppm)	72.4426
3/15/2018 22:43:10	Interference Check Solution A	As (188.980 nm)	0.0052 K (ppm)	10.77	0.0052 (ppm)	0.1543 K
3/15/2018 22:43:10	Interference Check Solution A	B (249.772 nm)	-0.0023 u (ppm)	3.92	-0.0023 (ppm)	13.7158
3/15/2018 22:43:10	Interference Check Solution A	Ba (230.424 nm)	-0.0003 u (ppm)	35.20	-0.0003 (ppm)	-0.9738
3/15/2018 22:43:10	Interference Check Solution A	Be (313.107 nm)	0.0003 (ppm)	2.38	0.0003 (ppm)	-176.1742
3/15/2018 22:43:10	Interference Check Solution A	Ca (227.547 nm)	-0.0950 u (ppm)	13.79	-0.0950 (ppm)	1.7787
3/15/2018 22:43:10	Interference Check Solution A	Cd (214.439 nm)	-0.0003 u (ppm)	11.98	-0.0003 (ppm)	10.2703
3/15/2018 22:43:10	Interference Check Solution A	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.4169
3/15/2018 22:43:10	Interference Check Solution A	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-3.7712
3/15/2018 22:43:10	Interference Check Solution A	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.5645
3/15/2018 22:43:10	Interference Check Solution A	Fe (234.350 nm)	-0.0017 u (ppm)	9.23	-0.0017 (ppm)	1.8964
3/15/2018 22:43:10	Interference Check Solution A	K (766.491 nm)	0.0079 (ppm)	32.40	0.0079 (ppm)	14.3444
3/15/2018 22:43:10	Interference Check Solution A	Mg (279.078 nm)	0.0010 (ppm)	52.93	0.0010 (ppm)	-3.6435
3/15/2018 22:43:10	Interference Check Solution A	Mn (257.610 nm)	0.0000 (ppm)	17.74	0.0000 (ppm)	3.6911
3/15/2018 22:43:10	Interference Check Solution A	Mo (202.032 nm)	-0.0003 u (ppm)	30.82	-0.0003 (ppm)	2.4745
3/15/2018 22:43:10	Interference Check Solution A	Na (588.995 nm)	0.0663 (ppm)	10.16	0.0663 (ppm)	-6163.0112
3/15/2018 22:43:10	Interference Check Solution A	Ni (230.299 nm)	0.0022 (ppm)	14.68	0.0022 (ppm)	-9.2940
3/15/2018 22:43:10	Interference Check Solution A	Pb (220.353 nm)	-0.0019 u (ppm)	20.92	-0.0019 (ppm)	2.3360
3/15/2018 22:43:10	Interference Check Solution A	Sb (217.582 nm)	0.0003 (ppm)	31.86	0.0003 (ppm)	0.1447
3/15/2018 22:43:10	Interference Check Solution A	Se (196.026 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	1.2160
3/15/2018 22:43:10	Interference Check Solution A	Sn (189.925 nm)	0.0013 (ppm)	47.50	0.0013 (ppm)	0.6688
3/15/2018 22:43:10	Interference Check Solution A	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.1931
3/15/2018 22:43:10	Interference Check Solution A	Ti (336.122 nm)	0.0008 (ppm)	12.42	0.0008 (ppm)	-505.4486
3/15/2018 22:43:10	Interference Check Solution A	Tl (351.923 nm)	-0.0033 u (ppm)	82.79	-0.0033 (ppm)	17.6656
3/15/2018 22:43:10	Interference Check Solution A	V (292.401 nm)	-0.0017 u (ppm)	7.76	-0.0017 (ppm)	81.1277
3/15/2018 22:43:10	Interference Check Solution A	Y (360.074 nm)	1.80 (Ratio)	4.18	1.80 (Ratio)	1341892.40
3/15/2018 22:43:10	Interference Check Solution A	Y_R (360.074 nm)	1.80 (Ratio)	4.17	1.80 (Ratio)	1342157.98
3/15/2018 22:43:10	Interference Check Solution A	Zn (213.857 nm)	0.0003 (ppm)	20.03	0.0003 (ppm)	-17.6190

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Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:46:29	Interference Check Solution AB	Ag (328.068 nm)	-0.0002 Gu (ppm)	21.6	-0.0002 (ppm)	-110.3122 G
3/15/2018 22:46:29	Interference Check Solution AB	Al (394.401 nm)	-0.0036 Gu (ppm)	4.12	-0.0036 (ppm)	74.3989 G
3/15/2018 22:46:29	Interference Check Solution AB	As (188.980 nm)	0.0034 G (ppm)	36.78	0.0034 (ppm)	-1.3796 G
3/15/2018 22:46:29	Interference Check Solution AB	B (249.772 nm)	-0.0024 u (ppm)	3.49	-0.0024 (ppm)	11.5165
3/15/2018 22:46:29	Interference Check Solution AB	Ba (230.424 nm)	-0.0003 Gu (ppm)	27.38	-0.0003 (ppm)	-1.1892 G
3/15/2018 22:46:29	Interference Check Solution AB	Be (313.107 nm)	0.0003 G (ppm)	4.45	0.0003 (ppm)	-175.6760 G
3/15/2018 22:46:29	Interference Check Solution AB	Ca (227.547 nm)	-0.0952 Gu (ppm)	8.57	-0.0952 (ppm)	1.7702 G
3/15/2018 22:46:29	Interference Check Solution AB	Cd (214.439 nm)	-0.0003 Gu (ppm)	4.36	-0.0003 (ppm)	11.6408 G
3/15/2018 22:46:29	Interference Check Solution AB	Co (230.786 nm)	0.0001 Gu (ppm)	100.00	0.0001 (ppm)	-3.1683 G
3/15/2018 22:46:29	Interference Check Solution AB	Cr (267.716 nm)	0.0001 G (ppm)	> 100.00	0.0001 (ppm)	-1.9319 G
3/15/2018 22:46:29	Interference Check Solution AB	Cu (327.395 nm)	0.0000 Gu (ppm)	> 100.00	0.0000 (ppm)	1.8890 G
3/15/2018 22:46:29	Interference Check Solution AB	Fe (234.350 nm)	-0.0018 Gu (ppm)	6.05	-0.0018 (ppm)	13.4096
3/15/2018 22:46:29	Interference Check Solution AB	K (766.491 nm)	0.0071 (ppm)	75.70	0.0071 (ppm)	-2.8032 G
3/15/2018 22:46:29	Interference Check Solution AB	Mg (279.078 nm)	0.0014 G (ppm)	50.33	0.0014 (ppm)	3.6021 G
3/15/2018 22:46:29	Interference Check Solution AB	Mn (257.610 nm)	0.0000 G (ppm)	38.17	0.0000 (ppm)	2.3942
3/15/2018 22:46:29	Interference Check Solution AB	Mo (202.032 nm)	-0.0003 u (ppm)	40.12	-0.0003 (ppm)	2.3942
3/15/2018 22:46:29	Interference Check Solution AB	Na (588.995 nm)	0.0654 (ppm)	3.35	0.0654 (ppm)	-6191.9822
3/15/2018 22:46:29	Interference Check Solution AB	Ni (230.299 nm)	0.0018 G (ppm)	9.35	0.0018 (ppm)	-11.4895 G
3/15/2018 22:46:29	Interference Check Solution AB	Pb (220.353 nm)	-0.0018 Gu (ppm)	62.96	-0.0018 (ppm)	2.3690 G
3/15/2018 22:46:29	Interference Check Solution AB	Sb (217.582 nm)	0.0010 Gu (ppm)	> 100.00	0.0010 (ppm)	1.0687 G
3/15/2018 22:46:29	Interference Check Solution AB	Se (196.026 nm)	-0.0007 Gu (ppm)	> 100.00	-0.0007 (ppm)	2.2886 G
3/15/2018 22:46:29	Interference Check Solution AB	Sn (189.925 nm)	0.0008 (ppm)	81.24	0.0008 (ppm)	0.1199
3/15/2018 22:46:29	Interference Check Solution AB	Sr (216.596 nm)	0.0002 (ppm)	31.45	0.0002 (ppm)	-0.3352
3/15/2018 22:46:29	Interference Check Solution AB	Ti (336.122 nm)	0.0007 (ppm)	1.78	0.0007 (ppm)	-514.6686
3/15/2018 22:46:29	Interference Check Solution AB	Tl (351.923 nm)	-0.0056 Gu (ppm)	11.37	-0.0056 (ppm)	12.6119 G
3/15/2018 22:46:29	Interference Check Solution AB	V (292.401 nm)	-0.0016 Gu (ppm)	2.78	-0.0016 (ppm)	84.1044 G
3/15/2018 22:46:29	Interference Check Solution AB	Y (360.074 nm)	1.80 (Ratio)	1.75	1.80 (Ratio)	1338760.72
3/15/2018 22:46:29	Interference Check Solution AB	Y_R (360.074 nm)	1.80 (Ratio)	1.75	1.80 (Ratio)	1339030.12
3/15/2018 22:46:29	Interference Check Solution AB	Zn (213.857 nm)	0.0003 G (ppm)	4.49	0.0003 (ppm)	-17.2583 G
3/15/2018 22:49:48	Continuing Calibration Verification 1	Ag (328.068 nm)	0.4741 (ppm)	0.29	0.4741 (ppm)	29105.3762
3/15/2018 22:49:48	Continuing Calibration Verification 1	Al (394.401 nm)	9.4115 (ppm)	0.33	9.4115 (ppm)	99549.8454
3/15/2018 22:49:48	Continuing Calibration Verification 1	As (188.980 nm)	0.9919 (ppm)	1.01	0.9919 (ppm)	858.4962
3/15/2018 22:49:48	Continuing Calibration Verification 1	B (249.772 nm)	2.4007 (ppm)	0.31	2.4007 (ppm)	64263.3943
3/15/2018 22:49:48	Continuing Calibration Verification 1	Ba (230.424 nm)	10.1129 (ppm)	0.25	10.1129 (ppm)	294430.2453
3/15/2018 22:49:48	Continuing Calibration Verification 1	Be (313.107 nm)	0.2479 (ppm)	0.30	0.2479 (ppm)	325949.4734
3/15/2018 22:49:48	Continuing Calibration Verification 1	Ca (227.547 nm)	23.5996 (ppm)	0.58	23.5996 (ppm)	1119.7308
3/15/2018 22:49:48	Continuing Calibration Verification 1	Cd (214.439 nm)	0.5021 (ppm)	0.34	0.5021 (ppm)	10398.3732
3/15/2018 22:49:48	Continuing Calibration Verification 1	Co (230.786 nm)	2.5289 (ppm)	0.31	2.5289 (ppm)	23378.8970
3/15/2018 22:49:48	Continuing Calibration Verification 1	Cr (267.716 nm)	0.5114 (ppm)	0.32	0.5114 (ppm)	21875.7288
3/15/2018 22:49:48	Continuing Calibration Verification 1	Cu (327.395 nm)	1.1890 (ppm)	0.28	1.1890 (ppm)	59920.5596
3/15/2018 22:49:48	Continuing Calibration Verification 1	Fe (234.350 nm)	4.9422 (ppm)	0.35	4.9422 (ppm)	48374.2082
3/15/2018 22:49:48	Continuing Calibration Verification 1	K (766.491 nm)	24.2314 (ppm)	0.16	24.2314 (ppm)	57935.0142
3/15/2018 22:49:48	Continuing Calibration Verification 1	Mg (279.078 nm)	24.5495 (ppm)	0.25	24.5495 (ppm)	45229.7981
3/15/2018 22:49:48	Continuing Calibration Verification 1	Mn (257.610 nm)	0.7543 (ppm)	0.38	0.7543 (ppm)	206911.9545
3/15/2018 22:49:48	Continuing Calibration Verification 1	Mo (202.032 nm)	2.4632 (ppm)	0.37	2.4632 (ppm)	21913.7622
3/15/2018 22:49:48	Continuing Calibration Verification 1	Na (588.995 nm)	24.6644 (ppm)	0.30	24.6644 (ppm)	851706.2666
3/15/2018 22:49:48	Continuing Calibration Verification 1	Ni (230.299 nm)	2.0360 (ppm)	0.43	2.0360 (ppm)	12780.3640
3/15/2018 22:49:48	Continuing Calibration Verification 1	Pb (220.353 nm)	0.4989 (ppm)	0.32	0.4989 (ppm)	1019.4725
3/15/2018 22:49:48	Continuing Calibration Verification 1	Sb (217.582 nm)	5.0336 (ppm)	0.30	5.0336 (ppm)	6422.6496
3/15/2018 22:49:48	Continuing Calibration Verification 1	Se (196.026 nm)	0.4978 (ppm)	1.11	0.4978 (ppm)	379.5463
3/15/2018 22:49:48	Continuing Calibration Verification 1	Sn (189.925 nm)	5.0579 (ppm)	0.44	5.0579 (ppm)	5725.1148

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Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:49:48	Continuing Calibration Verification1	Sr (215.596 nm)	2.5010 (ppm)	0.63	2.5010 (ppm)	32316.6545
3/15/2018 22:49:48	Continuing Calibration Verification1	Ti (336.122 nm)	2.4421 (ppm)	0.28	2.4421 (ppm)	419974.6399
3/15/2018 22:49:48	Continuing Calibration Verification1	Tl (351.923 nm)	0.9988 (ppm)	0.44	0.9988 (ppm)	2202.9287
3/15/2018 22:49:48	Continuing Calibration Verification1	V (292.401 nm)	2.4752 (ppm)	0.40	2.4752 (ppm)	76044.3758
3/15/2018 22:49:48	Continuing Calibration Verification1	Y (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	747815.80
3/15/2018 22:49:48	Continuing Calibration Verification1	Y_R (360.074 nm)	1.01 (Ratio)	0.39	1.01 (Ratio)	748236.93
3/15/2018 22:49:48	Continuing Calibration Verification1	Zn (213.857 nm)	0.9589 (ppm)	0.38	0.9589 (ppm)	26977.3431
3/15/2018 22:53:07	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0001 u (ppm)	74.07	-0.0001 (ppm)	-101.9072
3/15/2018 22:53:07	Continuing Calibration Blank1	Al (394.401 nm)	0.0011 (ppm)	37.56	0.0011 (ppm)	123.8650
3/15/2018 22:53:07	Continuing Calibration Blank1	As (188.980 nm)	0.0020 (ppm)	91.45	0.0020 (ppm)	-2.6167
3/15/2018 22:53:07	Continuing Calibration Blank1	B (249.772 nm)	0.0014 (ppm)	33.66	0.0014 (ppm)	113.7461
3/15/2018 22:53:07	Continuing Calibration Blank1	Ba (230.424 nm)	0.0021 (ppm)	17.55	0.0021 (ppm)	66.2256
3/15/2018 22:53:07	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	8.15	0.0001 (ppm)	-491.7953
3/15/2018 22:53:07	Continuing Calibration Blank1	Ca (227.547 nm)	0.0346 u (ppm)	> 100.00	0.0346 (ppm)	7.8944
3/15/2018 22:53:07	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 (ppm)	50.08	0.0002 (ppm)	21.6843
3/15/2018 22:53:07	Continuing Calibration Blank1	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-1.6317
3/15/2018 22:53:07	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-2.4659
3/15/2018 22:53:07	Continuing Calibration Blank1	Cu (327.395 nm)	0.0005 (ppm)	28.63	0.0005 (ppm)	32.7044
3/15/2018 22:53:07	Continuing Calibration Blank1	Fe (234.350 nm)	0.0016 (ppm)	32.52	0.0016 (ppm)	34.4643
3/15/2018 22:53:07	Continuing Calibration Blank1	K (766.491 nm)	0.0123 (ppm)	75.63	0.0123 (ppm)	24.9184
3/15/2018 22:53:07	Continuing Calibration Blank1	Mg (279.078 nm)	0.0034 (ppm)	50.11	0.0034 (ppm)	0.7313
3/15/2018 22:53:07	Continuing Calibration Blank1	Mn (257.610 nm)	0.0002 (ppm)	10.27	0.0002 (ppm)	53.6043
3/15/2018 22:53:07	Continuing Calibration Blank1	Mo (202.032 nm)	0.0024 (ppm)	7.03	0.0024 (ppm)	26.7333
3/15/2018 22:53:07	Continuing Calibration Blank1	Na (588.995 nm)	0.0143 (ppm)	10.37	0.0143 (ppm)	-7975.2645
3/15/2018 22:53:07	Continuing Calibration Blank1	Ni (230.299 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-18.6354
3/15/2018 22:53:07	Continuing Calibration Blank1	Pb (220.353 nm)	0.0003 (ppm)	85.80	0.0003 (ppm)	6.7586
3/15/2018 22:53:07	Continuing Calibration Blank1	Sb (217.582 nm)	0.0021 (ppm)	74.34	0.0021 (ppm)	2.4619
3/15/2018 22:53:07	Continuing Calibration Blank1	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	2.0989
3/15/2018 22:53:07	Continuing Calibration Blank1	Sn (189.925 nm)	0.0030 (ppm)	35.22	0.0030 (ppm)	2.6529
3/15/2018 22:53:07	Continuing Calibration Blank1	Sr (216.596 nm)	0.0005 (ppm)	14.26	0.0005 (ppm)	3.8241
3/15/2018 22:53:07	Continuing Calibration Blank1	Ti (336.122 nm)	0.0013 (ppm)	1.09	0.0013 (ppm)	-420.9452
3/15/2018 22:53:07	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	18.5710
3/15/2018 22:53:07	Continuing Calibration Blank1	V (292.401 nm)	0.0005 (ppm)	33.26	0.0005 (ppm)	147.9373
3/15/2018 22:53:07	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.23	1.03 (Ratio)	766346.72
3/15/2018 22:53:07	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.24	1.03 (Ratio)	766742.30
3/15/2018 22:53:07	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002 (ppm)	35.14	0.0002 (ppm)	-21.5238
3/15/2018 22:56:26	PBW-309873	Ag (328.068 nm)	-0.0002 u (ppm)	12.62	-0.0002 (ppm)	-110.8183
3/15/2018 22:56:26	PBW-309873	Al (394.401 nm)	0.0026 (ppm)	1.08	0.0026 (ppm)	139.6722
3/15/2018 22:56:26	PBW-309873	As (188.980 nm)	0.0007 (ppm)	97.36	0.0007 (ppm)	-3.7015
3/15/2018 22:56:26	PBW-309873	B (249.772 nm)	0.0015 (ppm)	2.07	0.0015 (ppm)	115.1861
3/15/2018 22:56:26	PBW-309873	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	8.1511
3/15/2018 22:56:26	PBW-309873	Be (313.107 nm)	0.0000 (ppm)	23.40	0.0000 (ppm)	-553.1730
3/15/2018 22:56:26	PBW-309873	Ca (227.547 nm)	0.0116 u (ppm)	> 100.00	0.0116 (ppm)	6.8082
3/15/2018 22:56:26	PBW-309873	Cd (214.439 nm)	-0.0001 u (ppm)	92.69	-0.0001 (ppm)	14.4072
3/15/2018 22:56:26	PBW-309873	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-5.5104
3/15/2018 22:56:26	PBW-309873	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.6306
3/15/2018 22:56:26	PBW-309873	Cu (327.395 nm)	0.0004 (ppm)	9.13	0.0004 (ppm)	30.8620
3/15/2018 22:56:26	PBW-309873	Fe (234.350 nm)	0.0033 (ppm)	6.19	0.0033 (ppm)	50.2027
3/15/2018 22:56:26	PBW-309873	K (766.491 nm)	0.1057 (ppm)	4.66	0.1057 (ppm)	248.1370
3/15/2018 22:56:26	PBW-309873	Mg (279.078 nm)	0.0018 (ppm)	22.75	0.0018 (ppm)	-2.2154
3/15/2018 22:56:26	PBW-309873	Mn (257.610 nm)	0.0016 (ppm)	1.51	0.0016 (ppm)	452.6064

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 22:56:26	PBW-309873	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	7.8252
3/15/2018 22:56:26	PBW-309873	Na (588.995 nm)	0.0437 (ppm)	0.92	0.0437 (ppm)	-6948.1596
3/15/2018 22:56:26	PBW-309873	Ni (230.299 nm)	0.0008 (ppm)	25.55	0.0008 (ppm)	-17.9235
3/15/2018 22:56:26	PBW-309873	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.3672
3/15/2018 22:56:26	PBW-309873	Sb (217.582 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	0.0294
3/15/2018 22:56:26	PBW-309873	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	1.9569
3/15/2018 22:56:26	PBW-309873	Sn (189.925 nm)	0.0008 (ppm)	45.33	0.0008 (ppm)	0.0869
3/15/2018 22:56:26	PBW-309873	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.0569
3/15/2018 22:56:26	PBW-309873	Ti (336.122 nm)	0.0011 (ppm)	10.01	0.0011 (ppm)	-453.1636
3/15/2018 22:56:26	PBW-309873	Tl (351.923 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	19.4689
3/15/2018 22:56:26	PBW-309873	V (292.401 nm)	-0.0002 u (ppm)	79.24	-0.0002 (ppm)	127.4568
3/15/2018 22:56:26	PBW-309873	Y (360.074 nm)	1.06 (Ratio)	0.75	1.06 (Ratio)	790654.60
3/15/2018 22:56:26	PBW-309873	Y_R (360.074 nm)	1.06 (Ratio)	0.75	1.06 (Ratio)	791118.71
3/15/2018 22:56:26	PBW-309873	Zn (213.857 nm)	0.0030 (ppm)	3.49	0.0030 (ppm)	58.6979
3/15/2018 22:59:45	LCSW-309873	Ag (328.068 nm)	0.0486 (ppm)	0.12	0.0486 (ppm)	2894.1893
3/15/2018 22:59:45	LCSW-309873	Al (394.401 nm)	1.8218 (ppm)	0.10	1.8218 (ppm)	19360.8485
3/15/2018 22:59:45	LCSW-309873	As (188.980 nm)	0.0388 (ppm)	7.15	0.0388 (ppm)	29.4448
3/15/2018 22:59:45	LCSW-309873	B (249.772 nm)	0.9532 (ppm)	0.17	0.9532 (ppm)	25562.0171
3/15/2018 22:59:45	LCSW-309873	Ba (230.424 nm)	2.0440 (ppm)	0.13	2.0440 (ppm)	59513.8693
3/15/2018 22:59:45	LCSW-309873	Be (313.107 nm)	0.0487 (ppm)	0.12	0.0487 (ppm)	63531.9368
3/15/2018 22:59:45	LCSW-309873	Ca (227.547 nm)	1.7603 (ppm)	1.77	1.7603 (ppm)	89.3161
3/15/2018 22:59:45	LCSW-309873	Cd (214.439 nm)	0.0508 (ppm)	0.61	0.0508 (ppm)	1067.4509
3/15/2018 22:59:45	LCSW-309873	Co (230.786 nm)	0.5122 (ppm)	0.03	0.5122 (ppm)	4731.7556
3/15/2018 22:59:45	LCSW-309873	Cr (267.716 nm)	0.2027 (ppm)	0.07	0.2027 (ppm)	8668.7672
3/15/2018 22:59:45	LCSW-309873	Cu (327.395 nm)	0.2402 (ppm)	0.34	0.2402 (ppm)	12109.9119
3/15/2018 22:59:45	LCSW-309873	Fe (234.350 nm)	0.9964 (ppm)	0.13	0.9964 (ppm)	9767.3356
3/15/2018 22:59:45	LCSW-309873	K (766.491 nm)	19.1090 (ppm)	0.33	19.1090 (ppm)	45686.7481
3/15/2018 22:59:45	LCSW-309873	Mg (279.078 nm)	1.9457 (ppm)	0.27	1.9457 (ppm)	3579.7711
3/15/2018 22:59:45	LCSW-309873	Mn (257.610 nm)	0.4980 (ppm)	0.10	0.4980 (ppm)	136602.9146
3/15/2018 22:59:45	LCSW-309873	Mo (202.032 nm)	0.4861 (ppm)	0.07	0.4861 (ppm)	4328.4312
3/15/2018 22:59:45	LCSW-309873	Na (588.995 nm)	19.4575 (ppm)	0.35	19.4575 (ppm)	670111.8073
3/15/2018 22:59:45	LCSW-309873	Ni (230.299 nm)	0.5005 (ppm)	0.29	0.5005 (ppm)	3124.7028
3/15/2018 22:59:45	LCSW-309873	Pb (220.353 nm)	0.5045 (ppm)	0.16	0.5045 (ppm)	1030.6892
3/15/2018 22:59:45	LCSW-309873	Sb (217.582 nm)	0.4686 (ppm)	0.50	0.4686 (ppm)	597.7958
3/15/2018 22:59:45	LCSW-309873	Se (196.026 nm)	1.0251 (ppm)	0.48	1.0251 (ppm)	778.5858
3/15/2018 22:59:45	LCSW-309873	Sn (189.925 nm)	4.9927 (ppm)	0.27	4.9927 (ppm)	5651.2709
3/15/2018 22:59:45	LCSW-309873	Sr (216.596 nm)	2.0026 (ppm)	0.14	2.0026 (ppm)	25876.7581
3/15/2018 22:59:45	LCSW-309873	Ti (336.122 nm)	0.4821 (ppm)	0.10	0.4821 (ppm)	82393.4749
3/15/2018 22:59:45	LCSW-309873	Tl (351.923 nm)	1.8406 (ppm)	0.21	1.8406 (ppm)	4038.7893
3/15/2018 22:59:45	LCSW-309873	V (292.401 nm)	0.4858 (ppm)	0.17	0.4858 (ppm)	15031.4171
3/15/2018 22:59:45	LCSW-309873	Y (360.074 nm)	1.03 (Ratio)	0.55	1.03 (Ratio)	769176.68
3/15/2018 22:59:45	LCSW-309873	Y_R (360.074 nm)	1.03 (Ratio)	0.55	1.03 (Ratio)	769686.03
3/15/2018 22:59:45	LCSW-309873	Zn (213.857 nm)	0.4857 (ppm)	0.39	0.4857 (ppm)	13651.1257
3/15/2018 23:03:04	R1801820-001	Ag (328.068 nm)	-0.0004 u (ppm)	21.20	-0.0004 (ppm)	-121.9311
3/15/2018 23:03:04	R1801820-001	Al (394.401 nm)	0.1123 (ppm)	0.15	0.1123 (ppm)	1298.9046
3/15/2018 23:03:04	R1801820-001	As (188.980 nm)	0.0037 u (ppm)	96.88	0.0037 (ppm)	-1.1044
3/15/2018 23:03:04	R1801820-001	B (249.772 nm)	0.0151 (ppm)	1.22	0.0151 (ppm)	478.7708
3/15/2018 23:03:04	R1801820-001	Ba (230.424 nm)	0.0600 (ppm)	0.88	0.0600 (ppm)	1753.0994
3/15/2018 23:03:04	R1801820-001	Be (313.107 nm)	0.0000 (ppm)	20.02	0.0000 (ppm)	-555.4284
3/15/2018 23:03:04	R1801820-001	Ca (227.547 nm)	129.2230 u (ppm)	1.16	129.2230 (ppm)	6103.2184
3/15/2018 23:03:04	R1801820-001	Cd (214.439 nm)	-0.0002 u (ppm)	43.87	-0.0002 (ppm)	12.7404

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:03:04	R1801820-001	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.3582
3/15/2018 23:03:04	R1801820-001	Cr (267.716 nm)	0.0005 (ppm)	14.06	0.0005 (ppm)	16.0086
3/15/2018 23:03:04	R1801820-001	Cu (327.395 nm)	0.0006 (ppm)	25.04	0.0006 (ppm)	38.5122
3/15/2018 23:03:04	R1801820-001	Fe (234.350 nm)	0.7288 (ppm)	0.89	0.7288 (ppm)	7148.7083
3/15/2018 23:03:04	R1801820-001	K (766.491 nm)	3.3413 (ppm)	0.30	3.3413 (ppm)	7984.8660
3/15/2018 23:03:04	R1801820-001	Mg (279.078 nm)	19.1292 (ppm)	0.87	19.1292 (ppm)	35242.3444
3/15/2018 23:03:04	R1801820-001	Mn (257.610 nm)	0.8522 (ppm)	0.92	0.8522 (ppm)	233775.6123
3/15/2018 23:03:04	R1801820-001	Mo (202.032 nm)	0.0012 (ppm)	15.33	0.0012 (ppm)	16.0952
3/15/2018 23:03:04	R1801820-001	Na (588.995 nm)	91.1677 o (ppm)	0.66	91.1677 (ppm)	3171028.7802
3/15/2018 23:03:04	R1801820-001	Ni (230.299 nm)	0.0014 (ppm)	57.99	0.0014 (ppm)	-13.9008
3/15/2018 23:03:04	R1801820-001	Pb (220.353 nm)	-0.0014 u (ppm)	84.63	-0.0014 (ppm)	3.3351
3/15/2018 23:03:04	R1801820-001	Sb (217.582 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	1.0631
3/15/2018 23:03:04	R1801820-001	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	3.2204
3/15/2018 23:03:04	R1801820-001	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.6250
3/15/2018 23:03:04	R1801820-001	Sr (216.596 nm)	0.8455 (ppm)	1.60	0.8455 (ppm)	10923.8487
3/15/2018 23:03:04	R1801820-001	Ti (336.122 nm)	0.0034 (ppm)	3.87	0.0034 (ppm)	-53.6074
3/15/2018 23:03:04	R1801820-001	Tl (351.923 nm)	-0.0030 u (ppm)	40.69	-0.0030 (ppm)	18.1849
3/15/2018 23:03:04	R1801820-001	V (292.401 nm)	0.0004 (ppm)	90.85	0.0004 (ppm)	144.5763
3/15/2018 23:03:04	R1801820-001	Y (360.074 nm)	1.00 (Ratio)	0.40	1.00 (Ratio)	740584.84
3/15/2018 23:03:04	R1801820-001	Y_R (360.074 nm)	1.00 (Ratio)	0.40	1.00 (Ratio)	741154.82
3/15/2018 23:03:04	R1801820-001	Zn (213.857 nm)	0.0031 (ppm)	1.92	0.0031 (ppm)	59.5239
3/15/2018 23:06:23	R1801820-001S	Ag (328.068 nm)	0.0485 (ppm)	0.21	0.0485 (ppm)	2892.5524
3/15/2018 23:06:23	R1801820-001S	Al (394.401 nm)	2.0812 (ppm)	0.07	2.0812 (ppm)	22101.7233
3/15/2018 23:06:23	R1801820-001S	As (188.980 nm)	0.0436 (ppm)	7.09	0.0436 (ppm)	33.6011
3/15/2018 23:06:23	R1801820-001S	B (249.772 nm)	0.9637 (ppm)	0.13	0.9637 (ppm)	25843.6216
3/15/2018 23:06:23	R1801820-001S	Ba (230.424 nm)	1.9983 (ppm)	0.14	1.9983 (ppm)	58184.0598
3/15/2018 23:06:23	R1801820-001S	Be (313.107 nm)	0.0473 (ppm)	0.04	0.0473 (ppm)	61734.6105
3/15/2018 23:06:23	R1801820-001S	Ca (227.547 nm)	128.7931 o (ppm)	0.16	128.7931 (ppm)	6082.9346
3/15/2018 23:06:23	R1801820-001S	Cd (214.439 nm)	0.0477 (ppm)	0.59	0.0477 (ppm)	1002.6881
3/15/2018 23:06:23	R1801820-001S	Co (230.786 nm)	0.4832 (ppm)	0.09	0.4832 (ppm)	4463.7684
3/15/2018 23:06:23	R1801820-001S	Cr (267.716 nm)	0.1941 (ppm)	0.24	0.1941 (ppm)	8298.8192
3/15/2018 23:06:23	R1801820-001S	Cu (327.395 nm)	0.2412 (ppm)	0.48	0.2412 (ppm)	12161.8323
3/15/2018 23:06:23	R1801820-001S	Fe (234.350 nm)	1.6907 (ppm)	0.13	1.6907 (ppm)	16560.6168
3/15/2018 23:06:23	R1801820-001S	K (766.491 nm)	23.0182 (ppm)	0.14	23.0182 (ppm)	55034.0443
3/15/2018 23:06:23	R1801820-001S	Mg (279.078 nm)	20.6321 (ppm)	0.14	20.6321 (ppm)	38011.5322
3/15/2018 23:06:23	R1801820-001S	Mn (257.610 nm)	1.3137 (ppm)	0.06	1.3137 (ppm)	360367.3427
3/15/2018 23:06:23	R1801820-001S	Mo (202.032 nm)	0.4743 (ppm)	0.13	0.4743 (ppm)	4223.6278
3/15/2018 23:06:23	R1801820-001S	Na (588.995 nm)	107.0621 o (ppm)	0.36	107.0621 (ppm)	3725350.2336
3/15/2018 23:06:23	R1801820-001S	Ni (230.299 nm)	0.4761 (ppm)	0.15	0.4761 (ppm)	2970.7871
3/15/2018 23:06:23	R1801820-001S	Pb (220.353 nm)	0.4797 (ppm)	0.20	0.4797 (ppm)	980.4176
3/15/2018 23:06:23	R1801820-001S	Sb (217.582 nm)	0.4709 (ppm)	0.42	0.4709 (ppm)	600.6721
3/15/2018 23:06:23	R1801820-001S	Se (196.026 nm)	1.0277 (ppm)	0.42	1.0277 (ppm)	780.5537
3/15/2018 23:06:23	R1801820-001S	Sn (189.925 nm)	4.8301 (ppm)	0.16	4.8301 (ppm)	5467.1827
3/15/2018 23:06:23	R1801820-001S	Sr (216.596 nm)	2.7491 (ppm)	0.35	2.7491 (ppm)	35523.6756
3/15/2018 23:06:23	R1801820-001S	Ti (336.122 nm)	0.4726 (ppm)	0.09	0.4726 (ppm)	80751.8215
3/15/2018 23:06:23	R1801820-001S	Tl (351.923 nm)	1.9388 (ppm)	0.51	1.9388 (ppm)	4253.0469
3/15/2018 23:06:23	R1801820-001S	V (292.401 nm)	0.4759 (ppm)	0.09	0.4759 (ppm)	14727.8505
3/15/2018 23:06:23	R1801820-001S	Y (360.074 nm)	0.99 (Ratio)	0.28	0.99 (Ratio)	740148.02
3/15/2018 23:06:23	R1801820-001S	Y_R (360.074 nm)	1.00 (Ratio)	0.28	1.00 (Ratio)	740743.37
3/15/2018 23:06:23	R1801820-001S	Zn (213.857 nm)	0.4656 (ppm)	0.52	0.4656 (ppm)	13085.6578
3/15/2018 23:09:42	R1801820-001SD	Ag (328.068 nm)	0.0495 (ppm)	1.83	0.0495 (ppm)	2952.6912

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:09:42	R1801820-001SD	Al (394.401 nm)	2.1274 (ppm)	2.21	2.1274 (ppm)	22589.4022
3/15/2018 23:09:42	R1801820-001SD	As (188.980 nm)	0.0411 (ppm)	2.91	0.0411 (ppm)	31.4252
3/15/2018 23:09:42	R1801820-001SD	B (249.772 nm)	0.9831 (ppm)	2.01	0.9831 (ppm)	26359.8874
3/15/2018 23:09:42	R1801820-001SD	Ba (230.424 nm)	2.0358 (ppm)	1.91	2.0358 (ppm)	59276.6784
3/15/2018 23:09:42	R1801820-001SD	Be (313.107 nm)	0.0483 (ppm)	2.07	0.0483 (ppm)	63094.3128
3/15/2018 23:09:42	R1801820-001SD	Ca (227.547 nm)	130.2133 o (ppm)	2.32	130.2133 (ppm)	6149.9407
3/15/2018 23:09:42	R1801820-001SD	Cd (214.439 nm)	0.0488 (ppm)	2.56	0.0488 (ppm)	1025.4676
3/15/2018 23:09:42	R1801820-001SD	Co (230.786 nm)	0.4931 (ppm)	2.36	0.4931 (ppm)	4555.2539
3/15/2018 23:09:42	R1801820-001SD	Cr (267.716 nm)	0.1981 (ppm)	2.21	0.1981 (ppm)	8472.0947
3/15/2018 23:09:42	R1801820-001SD	Cu (327.395 nm)	0.2453 (ppm)	1.56	0.2453 (ppm)	12367.3422
3/15/2018 23:09:42	R1801820-001SD	Fe (234.350 nm)	1.7225 (ppm)	2.13	1.7225 (ppm)	16871.9062
3/15/2018 23:09:42	R1801820-001SD	K (766.491 nm)	23.5633 (ppm)	2.35	23.5633 (ppm)	56337.4598
3/15/2018 23:09:42	R1801820-001SD	Mg (279.078 nm)	20.8731 (ppm)	2.09	20.8731 (ppm)	38455.6987
3/15/2018 23:09:42	R1801820-001SD	Mn (257.610 nm)	1.3340 (ppm)	2.14	1.3340 (ppm)	365944.2646
3/15/2018 23:09:42	R1801820-001SD	Mo (202.032 nm)	0.4837 (ppm)	2.14	0.4837 (ppm)	4306.7944
3/15/2018 23:09:42	R1801820-001SD	Na (588.995 nm)	108.1641 o (ppm)	2.07	108.1641 (ppm)	3763782.2898
3/15/2018 23:09:42	R1801820-001SD	Ni (230.299 nm)	0.4845 (ppm)	2.37	0.4845 (ppm)	3023.8338
3/15/2018 23:09:42	R1801820-001SD	Pb (220.353 nm)	0.4892 (ppm)	2.24	0.4892 (ppm)	999.7502
3/15/2018 23:09:42	R1801820-001SD	Sb (217.582 nm)	0.4755 (ppm)	1.33	0.4755 (ppm)	606.5671
3/15/2018 23:09:42	R1801820-001SD	Se (196.026 nm)	1.0377 (ppm)	1.76	1.0377 (ppm)	788.1368
3/15/2018 23:09:42	R1801820-001SD	Sn (189.925 nm)	4.9469 (ppm)	2.59	4.9469 (ppm)	5599.3721
3/15/2018 23:09:42	R1801820-001SD	Sr (216.596 nm)	2.7785 (ppm)	2.01	2.7785 (ppm)	35902.8015
3/15/2018 23:09:42	R1801820-001SD	Ti (336.122 nm)	0.4836 (ppm)	2.39	0.4836 (ppm)	82653.4518
3/15/2018 23:09:42	R1801820-001SD	Tl (351.923 nm)	1.9776 (ppm)	1.92	1.9776 (ppm)	4337.6020
3/15/2018 23:09:42	R1801820-001SD	V (292.401 nm)	0.4865 (ppm)	2.18	0.4865 (ppm)	15053.8920
3/15/2018 23:09:42	R1801820-001SD	Y (360.074 nm)	0.98 (Ratio)	1.94	0.98 (Ratio)	730631.55
3/15/2018 23:09:42	R1801820-001SD	Y_R (360.074 nm)	0.98 (Ratio)	1.94	0.98 (Ratio)	731225.08
3/15/2018 23:09:42	R1801820-001SD	Zn (213.857 nm)	0.4727 (ppm)	2.44	0.4727 (ppm)	13285.2896
3/15/2018 23:13:01	R1801820-001A	Ag (328.068 nm)	0.0516 (ppm)	0.71	0.0516 (ppm)	3083.5115
3/15/2018 23:13:01	R1801820-001A	Al (394.401 nm)	2.0993 (ppm)	0.72	2.0993 (ppm)	22291.9904
3/15/2018 23:13:01	R1801820-001A	As (188.980 nm)	0.0401 (ppm)	7.29	0.0401 (ppm)	30.5527
3/15/2018 23:13:01	R1801820-001A	B (249.772 nm)	0.9874 (ppm)	0.51	0.9874 (ppm)	26476.6145
3/15/2018 23:13:01	R1801820-001A	Ba (230.424 nm)	2.0439 (ppm)	0.27	2.0439 (ppm)	59513.5025
3/15/2018 23:13:01	R1801820-001A	Be (313.107 nm)	0.0485 (ppm)	0.47	0.0485 (ppm)	63244.3081
3/15/2018 23:13:01	R1801820-001A	Ca (227.547 nm)	129.2415 o (ppm)	0.38	129.2415 (ppm)	6104.0906
3/15/2018 23:13:01	R1801820-001A	Cd (214.439 nm)	0.0488 (ppm)	0.89	0.0488 (ppm)	1025.0507
3/15/2018 23:13:01	R1801820-001A	Co (230.786 nm)	0.4969 (ppm)	0.43	0.4969 (ppm)	4590.7906
3/15/2018 23:13:01	R1801820-001A	Cr (267.716 nm)	0.1986 (ppm)	0.55	0.1986 (ppm)	8493.1481
3/15/2018 23:13:01	R1801820-001A	Cu (327.395 nm)	0.2458 (ppm)	0.57	0.2458 (ppm)	12393.8770
3/15/2018 23:13:01	R1801820-001A	Fe (234.350 nm)	1.6943 (ppm)	0.49	1.6943 (ppm)	16596.0210
3/15/2018 23:13:01	R1801820-001A	K (766.491 nm)	23.5136 (ppm)	0.46	23.5136 (ppm)	56218.5374
3/15/2018 23:13:01	R1801820-001A	Mg (279.078 nm)	20.7906 (ppm)	0.44	20.7906 (ppm)	38303.6985
3/15/2018 23:13:01	R1801820-001A	Mn (257.610 nm)	1.3306 (ppm)	0.51	1.3306 (ppm)	364989.9422
3/15/2018 23:13:01	R1801820-001A	Mo (202.032 nm)	0.0016 (ppm)	25.49	0.0016 (ppm)	19.4059
3/15/2018 23:13:01	R1801820-001A	Na (588.995 nm)	108.0565 o (ppm)	0.47	108.0565 (ppm)	3760029.5724
3/15/2018 23:13:01	R1801820-001A	Ni (230.299 nm)	0.4859 (ppm)	0.17	0.4859 (ppm)	3032.4029
3/15/2018 23:13:01	R1801820-001A	Pb (220.353 nm)	0.4895 (ppm)	0.34	0.4895 (ppm)	1000.1855
3/15/2018 23:13:01	R1801820-001A	Sb (217.582 nm)	0.0036 (ppm)	20.36	0.0036 (ppm)	4.4240
3/15/2018 23:13:01	R1801820-001A	Se (196.026 nm)	0.0115 (ppm)	42.00	0.0115 (ppm)	11.5257
3/15/2018 23:13:01	R1801820-001A	Sn (189.925 nm)	-0.0011 u (ppm)	89.60	-0.0011 (ppm)	-2.0280
3/15/2018 23:13:01	R1801820-001A	Sr (216.596 nm)	0.8334 (ppm)	0.33	0.8334 (ppm)	10767.3875

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:13:01	R1801820-001A	Ti (336.122 nm)	0.0035 (ppm)	0.96	0.0035 (ppm)	-39.0136
3/15/2018 23:13:01	R1801820-001A	Ti (351.923 nm)	1.9808 (ppm)	0.60	1.9808 (ppm)	4344.5971
3/15/2018 23:13:01	R1801820-001A	V (292.401 nm)	0.4881 (ppm)	0.53	0.4881 (ppm)	15103.0249
3/15/2018 23:13:01	R1801820-001A	Y (360.074 nm)	0.99 (Ratio)	0.09	0.99 (Ratio)	739185.46
3/15/2018 23:13:01	R1801820-001A	Y_R (360.074 nm)	0.99 (Ratio)	0.09	0.99 (Ratio)	739787.73
3/15/2018 23:13:01	R1801820-001A	Zn (213.857 nm)	0.4785 (ppm)	0.85	0.4785 (ppm)	13449.9115
3/15/2018 23:16:21	R1801820-001L	Ag (328.068 nm)	-0.0003 u (ppm)	15.74	-0.0003 (ppm)	-117.0580
3/15/2018 23:16:21	R1801820-001L	Al (394.401 nm)	0.0291 (ppm)	2.52	0.0291 (ppm)	419.2413
3/15/2018 23:16:21	R1801820-001L	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.2575
3/15/2018 23:16:21	R1801820-001L	B (249.772 nm)	0.0037 (ppm)	1.98	0.0037 (ppm)	173.3280
3/15/2018 23:16:21	R1801820-001L	Ba (230.424 nm)	0.0134 (ppm)	3.80	0.0134 (ppm)	395.4572
3/15/2018 23:16:21	R1801820-001L	Be (313.107 nm)	0.0000 (ppm)	42.03	0.0000 (ppm)	-536.9297
3/15/2018 23:16:21	R1801820-001L	Ca (227.547 nm)	25.3578 (ppm)	2.30	25.3578 (ppm)	1202.6841
3/15/2018 23:16:21	R1801820-001L	Cd (214.439 nm)	-0.0004 u (ppm)	46.51	-0.0004 (ppm)	9.5348
3/15/2018 23:16:21	R1801820-001L	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-0.6695
3/15/2018 23:16:21	R1801820-001L	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	0.2557
3/15/2018 23:16:21	R1801820-001L	Cu (327.395 nm)	0.0002 (ppm)	13.12	0.0002 (ppm)	19.4989
3/15/2018 23:16:21	R1801820-001L	Fe (234.350 nm)	0.1521 (ppm)	1.81	0.1521 (ppm)	1506.1337
3/15/2018 23:16:21	R1801820-001L	K (766.491 nm)	0.6609 (ppm)	3.19	0.6609 (ppm)	1575.7111
3/15/2018 23:16:21	R1801820-001L	Mg (279.078 nm)	3.9272 (ppm)	1.99	3.9272 (ppm)	7230.9586
3/15/2018 23:16:21	R1801820-001L	Mn (257.610 nm)	0.1792 (ppm)	1.94	0.1792 (ppm)	49164.6122
3/15/2018 23:16:21	R1801820-001L	Mo (202.032 nm)	0.0003 (ppm)	37.51	0.0003 (ppm)	8.1057
3/15/2018 23:16:21	R1801820-001L	Na (588.995 nm)	19.0051 (ppm)	2.02	19.0051 (ppm)	654335.8954
3/15/2018 23:16:21	R1801820-001L	Ni (230.299 nm)	0.0026 (ppm)	21.47	0.0026 (ppm)	-6.6468
3/15/2018 23:16:21	R1801820-001L	Pb (220.353 nm)	-0.0012 u (ppm)	51.55	-0.0012 (ppm)	3.7120
3/15/2018 23:16:21	R1801820-001L	Sb (217.582 nm)	0.0032 (ppm)	33.29	0.0032 (ppm)	3.9106
3/15/2018 23:16:21	R1801820-001L	Se (196.026 nm)	-0.0041 u (ppm)	78.94	-0.0041 (ppm)	-0.3133
3/15/2018 23:16:21	R1801820-001L	Sn (189.925 nm)	0.0016 u (ppm)	99.88	0.0016 (ppm)	1.0448
3/15/2018 23:16:21	R1801820-001L	Sr (216.596 nm)	0.1800 (ppm)	2.97	0.1800 (ppm)	2323.1763
3/15/2018 23:16:21	R1801820-001L	Ti (336.122 nm)	0.0023 (ppm)	3.57	0.0023 (ppm)	-244.5506
3/15/2018 23:16:21	R1801820-001L	Ti (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	22.1783
3/15/2018 23:16:21	R1801820-001L	V (292.401 nm)	0.0001 (ppm)	69.26	0.0001 (ppm)	137.9355
3/15/2018 23:16:21	R1801820-001L	Y (360.074 nm)	1.03 (Ratio)	2.00	1.03 (Ratio)	765176.12
3/15/2018 23:16:21	R1801820-001L	Y_R (360.074 nm)	1.03 (Ratio)	1.99	1.03 (Ratio)	765723.58
3/15/2018 23:16:21	R1801820-001L	Zn (213.857 nm)	0.0049 (ppm)	1.27	0.0049 (ppm)	111.3609
3/15/2018 23:19:40	R1801820-002	Ag (328.068 nm)	-0.0004 u (ppm)	31.75	-0.0004 (ppm)	-120.9017
3/15/2018 23:19:40	R1801820-002	Al (394.401 nm)	0.2543 (ppm)	0.89	0.2543 (ppm)	2798.9825
3/15/2018 23:19:40	R1801820-002	As (188.980 nm)	0.0069 (ppm)	33.01	0.0069 (ppm)	1.6430
3/15/2018 23:19:40	R1801820-002	B (249.772 nm)	0.0163 (ppm)	0.73	0.0163 (ppm)	511.7499
3/15/2018 23:19:40	R1801820-002	Ba (230.424 nm)	0.0592 (ppm)	1.36	0.0592 (ppm)	1728.9559
3/15/2018 23:19:40	R1801820-002	Be (313.107 nm)	0.0000 (ppm)	43.54	0.0000 (ppm)	-554.5727
3/15/2018 23:19:40	R1801820-002	Ca (227.547 nm)	128.7381 u (ppm)	0.47	128.7381 (ppm)	6080.3394
3/15/2018 23:19:40	R1801820-002	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.9563
3/15/2018 23:19:40	R1801820-002	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.5980
3/15/2018 23:19:40	R1801820-002	Cr (267.716 nm)	-0.0002 u (ppm)	11.38	-0.0002 (ppm)	-13.5356
3/15/2018 23:19:40	R1801820-002	Cu (327.395 nm)	0.0009 (ppm)	11.19	0.0009 (ppm)	52.5027
3/15/2018 23:19:40	R1801820-002	Fe (234.350 nm)	0.8629 (ppm)	0.42	0.8629 (ppm)	8461.0188
3/15/2018 23:19:40	R1801820-002	K (766.491 nm)	3.5313 (ppm)	0.68	3.5313 (ppm)	8439.2108
3/15/2018 23:19:40	R1801820-002	Mg (279.078 nm)	19.0958 (ppm)	0.44	19.0958 (ppm)	35180.7922
3/15/2018 23:19:40	R1801820-002	Mn (257.610 nm)	0.7962 (ppm)	0.45	0.7962 (ppm)	218416.2156
3/15/2018 23:19:40	R1801820-002	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	6.6115



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:19:40	R1801820-002	Na (588.995 nm)	89.9717 o (ppm)	0.51	89.9717 (ppm)	3129317.4347
3/15/2018 23:19:40	R1801820-002	Ni (230.299 nm)	-0.0016 u (ppm)	30.53	-0.0016 (ppm)	-32.8622
3/15/2018 23:19:40	R1801820-002	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	3.6158
3/15/2018 23:19:40	R1801820-002	Sb (217.582 nm)	0.0032 (ppm)	40.21	0.0032 (ppm)	3.8514
3/15/2018 23:19:40	R1801820-002	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	1.8463
3/15/2018 23:19:40	R1801820-002	Sn (189.925 nm)	-0.0023 u (ppm)	71.24	-0.0023 (ppm)	-3.4042
3/15/2018 23:19:40	R1801820-002	Sr (216.596 nm)	0.8549 (ppm)	1.02	0.8549 (ppm)	11045.2330
3/15/2018 23:19:40	R1801820-002	Ti (336.122 nm)	0.0059 (ppm)	0.78	0.0059 (ppm)	383.5623
3/15/2018 23:19:40	R1801820-002	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	22.8632
3/15/2018 23:19:40	R1801820-002	V (292.401 nm)	0.0007 (ppm)	34.06	0.0007 (ppm)	155.1692
3/15/2018 23:19:40	R1801820-002	Y (360.074 nm)	0.99 (Ratio)	0.43	0.99 (Ratio)	732998.02
3/15/2018 23:19:40	R1801820-002	Y_R (360.074 nm)	0.99 (Ratio)	0.44	0.99 (Ratio)	733563.13
3/15/2018 23:19:40	R1801820-002	Zn (213.857 nm)	0.0031 (ppm)	2.73	0.0031 (ppm)	61.3829
3/15/2018 23:22:57	R1801820-003	Ag (328.068 nm)	-0.0003 u (ppm)	28.82	-0.0003 (ppm)	-118.6834
3/15/2018 23:22:57	R1801820-003	Al (394.401 nm)	0.3228 (ppm)	0.15	0.3228 (ppm)	3522.7362
3/15/2018 23:22:57	R1801820-003	As (188.980 nm)	0.0031 (ppm)	62.46	0.0031 (ppm)	-1.6512
3/15/2018 23:22:57	R1801820-003	B (249.772 nm)	0.0159 (ppm)	0.45	0.0159 (ppm)	499.4220
3/15/2018 23:22:57	R1801820-003	Ba (230.424 nm)	0.0584 (ppm)	0.55	0.0584 (ppm)	1706.3018
3/15/2018 23:22:57	R1801820-003	Be (313.107 nm)	0.0000 (ppm)	54.60	0.0000 (ppm)	-559.8674
3/15/2018 23:22:57	R1801820-003	Ce (227.547 nm)	127.3185 o (ppm)	0.42	127.3185 (ppm)	6013.3590
3/15/2018 23:22:57	R1801820-003	Cd (214.439 nm)	-0.0002 u (ppm)	85.23	-0.0002 (ppm)	13.8696
3/15/2018 23:22:57	R1801820-003	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.9639
3/15/2018 23:22:57	R1801820-003	Cr (267.716 nm)	-0.0001 u (ppm)	72.92	-0.0001 (ppm)	-7.8220
3/15/2018 23:22:57	R1801820-003	Cu (327.395 nm)	0.0006 (ppm)	15.46	0.0006 (ppm)	40.9044
3/15/2018 23:22:57	R1801820-003	Fe (234.350 nm)	0.8961 (ppm)	0.28	0.8961 (ppm)	8785.9688
3/15/2018 23:22:57	R1801820-003	K (766.491 nm)	3.5101 (ppm)	0.27	3.5101 (ppm)	8388.5090
3/15/2018 23:22:57	R1801820-003	Mg (279.078 nm)	18.9054 (ppm)	0.29	18.9054 (ppm)	34829.9484
3/15/2018 23:22:57	R1801820-003	Mn (257.610 nm)	0.7820 (ppm)	0.28	0.7820 (ppm)	214510.1828
3/15/2018 23:22:57	R1801820-003	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	7.1097
3/15/2018 23:22:57	R1801820-003	Na (588.995 nm)	88.9742 o (ppm)	0.51	88.9742 (ppm)	3094530.0402
3/15/2018 23:22:57	R1801820-003	Ni (230.299 nm)	-0.0025 u (ppm)	39.26	-0.0025 (ppm)	-38.8698
3/15/2018 23:22:57	R1801820-003	Pb (220.353 nm)	-0.0022 u (ppm)	33.28	-0.0022 (ppm)	1.6883
3/15/2018 23:22:57	R1801820-003	Sb (217.582 nm)	0.0041 (ppm)	44.69	0.0041 (ppm)	5.0899
3/15/2018 23:22:57	R1801820-003	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	1.7858
3/15/2018 23:22:57	R1801820-003	Sn (189.925 nm)	-0.0013 u (ppm)	72.82	-0.0013 (ppm)	-2.2627
3/15/2018 23:22:57	R1801820-003	Sr (216.596 nm)	0.8443 (ppm)	0.42	0.8443 (ppm)	10907.7450
3/15/2018 23:22:57	R1801820-003	Ti (336.122 nm)	0.0068 (ppm)	0.34	0.0068 (ppm)	531.5013
3/15/2018 23:22:57	R1801820-003	Tl (351.923 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	20.5093
3/15/2018 23:22:57	R1801820-003	V (292.401 nm)	0.0005 (ppm)	16.08	0.0005 (ppm)	147.9067
3/15/2018 23:22:57	R1801820-003	Y (360.074 nm)	0.99 (Ratio)	0.48	0.99 (Ratio)	738144.59
3/15/2018 23:22:57	R1801820-003	Y_R (360.074 nm)	0.99 (Ratio)	0.48	0.99 (Ratio)	738698.75
3/15/2018 23:22:57	R1801820-003	Zn (213.857 nm)	0.0064 (ppm)	0.36	0.0064 (ppm)	152.8422
3/15/2018 23:26:16	R1801851-004	Ag (328.068 nm)	-0.0003 u (ppm)	28.72	-0.0003 (ppm)	-112.7532
3/15/2018 23:26:16	R1801851-004	Al (394.401 nm)	0.3664 (ppm)	0.40	0.3664 (ppm)	3983.9329
3/15/2018 23:26:16	R1801851-004	As (188.980 nm)	0.0051 (ppm)	66.07	0.0051 (ppm)	0.0668
3/15/2018 23:26:16	R1801851-004	B (249.772 nm)	0.0301 (ppm)	0.48	0.0301 (ppm)	879.5269
3/15/2018 23:26:16	R1801851-004	Ba (230.424 nm)	1.0541 (ppm)	0.66	1.0541 (ppm)	30694.9478
3/15/2018 23:26:16	R1801851-004	Be (313.107 nm)	0.0000 (ppm)	62.97	0.0000 (ppm)	-560.3192
3/15/2018 23:26:16	R1801851-004	Ce (227.547 nm)	432.1098 o (ppm)	0.11	432.1098 (ppm)	20393.9191
3/15/2018 23:26:16	R1801851-004	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.5753
3/15/2018 23:26:16	R1801851-004	Co (230.786 nm)	0.0004 (ppm)	34.89	0.0004 (ppm)	0.0163

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:26:16	R1801851-004	Cf (267.716 nm)	0.0034 (ppm)	4.49	0.0034 (ppm)	140.7163
3/15/2018 23:26:16	R1801851-004	Cu (327.395 nm)	0.0032 (ppm)	9.25	0.0032 (ppm)	169.7576
3/15/2018 23:26:16	R1801851-004	Fe (234.350 nm)	0.3609 (ppm)	0.24	0.3609 (ppm)	3549.0390
3/15/2018 23:26:16	R1801851-004	K (766.491 nm)	25.9272 (ppm)	0.13	25.9272 (ppm)	61989.8058
3/15/2018 23:26:16	R1801851-004	Mg (279.078 nm)	3.4526 (ppm)	0.08	3.4526 (ppm)	6356.4213
3/15/2018 23:26:16	R1801851-004	Mn (257.610 nm)	0.0119 (ppm)	0.69	0.0119 (ppm)	3272.1364
3/15/2018 23:26:16	R1801851-004	Mo (202.032 nm)	0.0021 (ppm)	25.70	0.0021 (ppm)	23.5149
3/15/2018 23:26:16	R1801851-004	Na (588.995 nm)	288.3387 o (ppm)	0.31	288.3387 (ppm)	10047430.6286
3/15/2018 23:26:16	R1801851-004	Ni (230.299 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	-17.1029
3/15/2018 23:26:16	R1801851-004	Pb (220.353 nm)	-0.0024 u (ppm)	57.78	-0.0024 (ppm)	1.2116
3/15/2018 23:26:16	R1801851-004	Sb (217.582 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	0.8068
3/15/2018 23:26:16	R1801851-004	Se (196.026 nm)	-0.0021 u (ppm)	66.85	-0.0021 (ppm)	1.2135
3/15/2018 23:26:16	R1801851-004	Sn (189.925 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-2.8256
3/15/2018 23:26:16	R1801851-004	Sr (216.596 nm)	7.3355 o (ppm)	1.88	7.3355 (ppm)	94792.0780
3/15/2018 23:26:16	R1801851-004	Ti (336.122 nm)	0.0084 (ppm)	0.65	0.0084 (ppm)	812.2595
3/15/2018 23:26:16	R1801851-004	Tl (351.923 nm)	0.0047 (ppm)	29.91	0.0047 (ppm)	35.0458
3/15/2018 23:26:16	R1801851-004	V (292.401 nm)	0.0046 (ppm)	0.39	0.0046 (ppm)	273.4634
3/15/2018 23:26:16	R1801851-004	Y (360.074 nm)	0.95 (Ratio)	0.36	0.95 (Ratio)	703164.77
3/15/2018 23:26:16	R1801851-004	Y_R (360.074 nm)	0.95 (Ratio)	0.36	0.95 (Ratio)	703714.25
3/15/2018 23:26:16	R1801851-004	Zn (213.857 nm)	0.0061 (ppm)	2.44	0.0061 (ppm)	143.4019
3/15/2018 23:29:34	Continuing Calibration Verification1	Ag (328.068 nm)	0.4767 (ppm)	0.22	0.4767 (ppm)	29266.9274
3/15/2018 23:29:34	Continuing Calibration Verification1	Al (394.401 nm)	9.4541 (ppm)	0.42	9.4541 (ppm)	100000.4544
3/15/2018 23:29:34	Continuing Calibration Verification1	As (188.980 nm)	1.0017 (ppm)	0.64	1.0017 (ppm)	867.0308
3/15/2018 23:29:34	Continuing Calibration Verification1	B (249.772 nm)	2.4134 (ppm)	0.29	2.4134 (ppm)	64603.3421
3/15/2018 23:29:34	Continuing Calibration Verification1	Ba (230.424 nm)	10.1765 (ppm)	0.37	10.1765 (ppm)	296283.6747
3/15/2018 23:29:34	Continuing Calibration Verification1	Be (313.107 nm)	0.2494 (ppm)	0.40	0.2494 (ppm)	327957.3908
3/15/2018 23:29:34	Continuing Calibration Verification1	Ca (227.547 nm)	23.6777 (ppm)	0.26	23.6777 (ppm)	1123.4160
3/15/2018 23:29:34	Continuing Calibration Verification1	Cd (214.439 nm)	0.5056 (ppm)	0.41	0.5056 (ppm)	10470.2640
3/15/2018 23:29:34	Continuing Calibration Verification1	Co (230.786 nm)	2.5433 (ppm)	0.29	2.5433 (ppm)	23512.0775
3/15/2018 23:29:34	Continuing Calibration Verification1	Cr (267.716 nm)	0.5148 (ppm)	0.33	0.5148 (ppm)	22020.4764
3/15/2018 23:29:34	Continuing Calibration Verification1	Cu (327.395 nm)	1.1912 (ppm)	0.25	1.1912 (ppm)	60030.0041
3/15/2018 23:29:34	Continuing Calibration Verification1	Fe (234.350 nm)	4.9642 (ppm)	0.33	4.9642 (ppm)	48589.1744
3/15/2018 23:29:34	Continuing Calibration Verification1	K (766.491 nm)	24.3229 (ppm)	0.42	24.3229 (ppm)	58153.5685
3/15/2018 23:29:34	Continuing Calibration Verification1	Mg (279.078 nm)	24.6952 (ppm)	0.33	24.6952 (ppm)	45498.3560
3/15/2018 23:29:34	Continuing Calibration Verification1	Mn (257.610 nm)	0.7591 (ppm)	0.39	0.7591 (ppm)	208244.4392
3/15/2018 23:29:34	Continuing Calibration Verification1	Mo (202.032 nm)	2.4789 (ppm)	0.27	2.4789 (ppm)	22053.1061
3/15/2018 23:29:34	Continuing Calibration Verification1	Na (588.995 nm)	24.8036 (ppm)	0.50	24.8036 (ppm)	856561.1811
3/15/2018 23:29:34	Continuing Calibration Verification1	Ni (230.299 nm)	2.0486 (ppm)	0.33	2.0486 (ppm)	12859.6941
3/15/2018 23:29:34	Continuing Calibration Verification1	Pb (220.353 nm)	0.5045 (ppm)	0.38	0.5045 (ppm)	1030.7339
3/15/2018 23:29:34	Continuing Calibration Verification1	Sb (217.582 nm)	5.0438 (ppm)	0.24	5.0438 (ppm)	6435.6127
3/15/2018 23:29:34	Continuing Calibration Verification1	Se (196.026 nm)	0.4940 (ppm)	1.45	0.4940 (ppm)	376.6701
3/15/2018 23:29:34	Continuing Calibration Verification1	Sn (189.925 nm)	5.0862 (ppm)	0.50	5.0862 (ppm)	5757.1027
3/15/2018 23:29:34	Continuing Calibration Verification1	Sr (216.596 nm)	2.5193 (ppm)	0.56	2.5193 (ppm)	32553.8675
3/15/2018 23:29:34	Continuing Calibration Verification1	Ti (336.122 nm)	2.4435 (ppm)	0.25	2.4435 (ppm)	420222.0570
3/15/2018 23:29:34	Continuing Calibration Verification1	Tl (351.923 nm)	0.9999 (ppm)	0.23	0.9999 (ppm)	2205.4676
3/15/2018 23:29:34	Continuing Calibration Verification1	V (292.401 nm)	2.4888 (ppm)	0.40	2.4888 (ppm)	76460.0260
3/15/2018 23:29:34	Continuing Calibration Verification1	Y (360.074 nm)	1.00 (Ratio)	0.72	1.00 (Ratio)	741785.67
3/15/2018 23:29:34	Continuing Calibration Verification1	Y_R (360.074 nm)	1.00 (Ratio)	0.72	1.00 (Ratio)	742239.30
3/15/2018 23:29:34	Continuing Calibration Verification1	Zn (213.857 nm)	0.9665 (ppm)	0.32	0.9665 (ppm)	27192.8321
3/15/2018 23:32:53	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0001 u (ppm)	50.39	-0.0001 (ppm)	-105.6115
3/15/2018 23:32:53	Continuing Calibration Blank1	Al (394.401 nm)	0.0027 (ppm)	39.96	0.0027 (ppm)	140.7515

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:32:53	Continuing Calibration Blank 1	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-4.0166
3/15/2018 23:32:53	Continuing Calibration Blank 1	B (249.772 nm)	0.0017 (ppm)	24.86	0.0017 (ppm)	119.7352
3/15/2018 23:32:53	Continuing Calibration Blank 1	Ba (230.424 nm)	0.0031 (ppm)	8.00	0.0031 (ppm)	95.6187
3/15/2018 23:32:53	Continuing Calibration Blank 1	Be (313.107 nm)	0.0001 (ppm)	8.71	0.0001 (ppm)	-451.4163
3/15/2018 23:32:53	Continuing Calibration Blank 1	Ca (227.547 nm)	-0.0394 u (ppm)	> 100.00	-0.0394 (ppm)	4.4030
3/15/2018 23:32:53	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0003 (ppm)	30.07	0.0003 (ppm)	22.6847
3/15/2018 23:32:53	Continuing Calibration Blank 1	Co (230.786 nm)	0.0008 (ppm)	50.00	0.0008 (ppm)	3.7040
3/15/2018 23:32:53	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0003 (ppm)	57.14	0.0003 (ppm)	10.4710
3/15/2018 23:32:53	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0005 (ppm)	26.91	0.0005 (ppm)	35.0692
3/15/2018 23:32:53	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0020 (ppm)	7.50	0.0020 (ppm)	37.6093
3/15/2018 23:32:53	Continuing Calibration Blank 1	K (766.491 nm)	0.0256 (ppm)	26.29	0.0256 (ppm)	56.6573
3/15/2018 23:32:53	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0070 (ppm)	8.04	0.0070 (ppm)	7.4876
3/15/2018 23:32:53	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0003 (ppm)	5.93	0.0003 (ppm)	81.0455
3/15/2018 23:32:53	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0024 (ppm)	11.89	0.0024 (ppm)	26.2173
3/15/2018 23:32:53	Continuing Calibration Blank 1	Na (588.995 nm)	0.0127 (ppm)	19.12	0.0127 (ppm)	-8030.1669
3/15/2018 23:32:53	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0007 (ppm)	39.00	0.0007 (ppm)	-18.3401
3/15/2018 23:32:53	Continuing Calibration Blank 1	Pb (220.353 nm)	0.0013 (ppm)	> 100.00	0.0013 (ppm)	8.6714
3/15/2018 23:32:53	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0043 (ppm)	23.60	0.0043 (ppm)	5.3631
3/15/2018 23:32:53	Continuing Calibration Blank 1	Se (196.026 nm)	0.0028 (ppm)	> 100.00	0.0028 (ppm)	4.9129
3/15/2018 23:32:53	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0037 (ppm)	8.38	0.0037 (ppm)	3.4592
3/15/2018 23:32:53	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0010 (ppm)	37.44	0.0010 (ppm)	9.9359
3/15/2018 23:32:53	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0014 (ppm)	6.02	0.0014 (ppm)	-395.0189
3/15/2018 23:32:53	Continuing Calibration Blank 1	Tl (351.923 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	25.9954
3/15/2018 23:32:53	Continuing Calibration Blank 1	V (292.401 nm)	0.0008 (ppm)	25.54	0.0008 (ppm)	157.2731
3/15/2018 23:32:53	Continuing Calibration Blank 1	Y (360.074 nm)	1.02 (Ratio)	0.24	1.02 (Ratio)	761385.42
3/15/2018 23:32:53	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.02 (Ratio)	0.24	1.02 (Ratio)	761754.29
3/15/2018 23:32:53	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0003 (ppm)	20.13	0.0003 (ppm)	-19.0076
3/15/2018 23:36:12	R1801851-005	Ag (328.068 nm)	-0.0002 u (ppm)	32.25	-0.0002 (ppm)	-109.4036
3/15/2018 23:36:12	R1801851-005	Al (394.401 nm)	0.0009 (ppm)	28.18	0.0009 (ppm)	122.0777
3/15/2018 23:36:12	R1801851-005	As (188.980 nm)	0.0025 (ppm)	78.25	0.0025 (ppm)	-2.1993
3/15/2018 23:36:12	R1801851-005	B (249.772 nm)	-0.0002 u (ppm)	9.48	-0.0002 (ppm)	70.6462
3/15/2018 23:36:12	R1801851-005	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.7457
3/15/2018 23:36:12	R1801851-005	Be (313.107 nm)	0.0000 (ppm)	12.35	0.0000 (ppm)	-553.8265
3/15/2018 23:36:12	R1801851-005	Ca (227.547 nm)	-0.0311 u (ppm)	> 100.00	-0.0311 (ppm)	4.7933
3/15/2018 23:36:12	R1801851-005	Cd (214.439 nm)	-0.0003 u (ppm)	29.65	-0.0003 (ppm)	11.2410
3/15/2018 23:36:12	R1801851-005	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-3.2695
3/15/2018 23:36:12	R1801851-005	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.0306
3/15/2018 23:36:12	R1801851-005	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.3920
3/15/2018 23:36:12	R1801851-005	Fe (234.350 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.0557
3/15/2018 23:36:12	R1801851-005	K (766.491 nm)	0.0113 (ppm)	59.91	0.0113 (ppm)	22.5206
3/15/2018 23:36:12	R1801851-005	Mg (279.078 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-7.7315
3/15/2018 23:36:12	R1801851-005	Mn (257.610 nm)	0.0002 (ppm)	8.59	0.0002 (ppm)	75.7659
3/15/2018 23:36:12	R1801851-005	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	7.2555
3/15/2018 23:36:12	R1801851-005	Na (588.995 nm)	0.0101 (ppm)	16.49	0.0101 (ppm)	-8120.9587
3/15/2018 23:36:12	R1801851-005	Ni (230.299 nm)	0.0009 (ppm)	39.20	0.0009 (ppm)	-17.0711
3/15/2018 23:36:12	R1801851-005	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.7544
3/15/2018 23:36:12	R1801851-005	Sb (217.582 nm)	0.0013 (ppm)	68.39	0.0013 (ppm)	1.5146
3/15/2018 23:36:12	R1801851-005	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	2.0194
3/15/2018 23:36:12	R1801851-005	Sn (189.925 nm)	0.0019 (ppm)	38.22	0.0019 (ppm)	1.3523
3/15/2018 23:36:12	R1801851-005	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.5965
3/15/2018 23:36:12	R1801851-005	Ti (336.122 nm)	0.0008 (ppm)	3.46	0.0008 (ppm)	-500.5386

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:36:12	R1801851-005	Tl (351.923 nm)	-0.0020 u (ppm)	66.32	-0.0020 (ppm)	20.4773
3/15/2018 23:36:12	R1801851-005	V (292.401 nm)	-0.0001 u (ppm)	88.63	-0.0001 (ppm)	130.4626
3/15/2018 23:36:12	R1801851-005	Y (360.074 nm)	1.04 (Ratio)	0.39	1.04 (Ratio)	776188.62
3/15/2018 23:36:12	R1801851-005	Y_R (360.074 nm)	1.04 (Ratio)	0.39	1.04 (Ratio)	776555.12
3/15/2018 23:36:12	R1801851-005	Zn (213.857 nm)	0.0014 (ppm)	2.73	0.0014 (ppm)	13.7412
3/15/2018 23:39:30	R1801941-002	Ag (328.068 nm)	-0.0001 u (ppm)	76.02	-0.0001 (ppm)	-104.2620
3/15/2018 23:39:30	R1801941-002	Al (394.401 nm)	0.0949 (ppm)	0.93	0.0949 (ppm)	1114.3836
3/15/2018 23:39:30	R1801941-002	As (188.980 nm)	1.0546 (ppm)	1.03	1.0546 (ppm)	913.0559
3/15/2018 23:39:30	R1801941-002	B (249.772 nm)	0.0559 (ppm)	0.33	0.0559 (ppm)	1569.1684
3/15/2018 23:39:30	R1801941-002	Ba (230.424 nm)	0.0014 (ppm)	1.13	0.0014 (ppm)	48.0575
3/15/2018 23:39:30	R1801941-002	Be (313.107 nm)	0.0000 (ppm)	30.63	0.0000 (ppm)	-563.6403
3/15/2018 23:39:30	R1801941-002	Ca (227.547 nm)	0.1075 (ppm)	75.61	0.1075 (ppm)	11.3352
3/15/2018 23:39:30	R1801941-002	Cd (214.439 nm)	-0.0001 u (ppm)	64.50	-0.0001 (ppm)	14.2659
3/15/2018 23:39:30	R1801941-002	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.1873
3/15/2018 23:39:30	R1801941-002	Cr (267.716 nm)	0.0010 (ppm)	7.44	0.0010 (ppm)	38.3890
3/15/2018 23:39:30	R1801941-002	Cu (327.395 nm)	0.0071 (ppm)	0.52	0.0071 (ppm)	367.5424
3/15/2018 23:39:30	R1801941-002	Fe (234.350 nm)	0.9366 (ppm)	0.23	0.9366 (ppm)	9181.8869
3/15/2018 23:39:30	R1801941-002	K (766.491 nm)	0.1300 (ppm)	4.81	0.1300 (ppm)	306.2683
3/15/2018 23:39:30	R1801941-002	Mg (279.078 nm)	0.0695 (ppm)	2.27	0.0695 (ppm)	122.6547
3/15/2018 23:39:30	R1801941-002	Mn (257.610 nm)	0.0053 (ppm)	0.37	0.0053 (ppm)	1477.2007
3/15/2018 23:39:30	R1801941-002	Mo (202.032 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	8.2270
3/15/2018 23:39:30	R1801941-002	Na (588.995 nm)	0.7088 (ppm)	0.48	0.7088 (ppm)	16244.6809
3/15/2018 23:39:30	R1801941-002	Ni (230.299 nm)	0.0031 (ppm)	22.63	0.0031 (ppm)	-3.5589
3/15/2018 23:39:30	R1801941-002	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.7968
3/15/2018 23:39:30	R1801941-002	Sb (217.582 nm)	0.2754 (ppm)	0.20	0.2754 (ppm)	351.1892
3/15/2018 23:39:30	R1801941-002	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	2.7037
3/15/2018 23:39:30	R1801941-002	Sn (189.925 nm)	0.0027 (ppm)	18.55	0.0027 (ppm)	2.3395
3/15/2018 23:39:30	R1801941-002	Sr (216.596 nm)	0.0008 (ppm)	35.76	0.0008 (ppm)	6.9397
3/15/2018 23:39:30	R1801941-002	Ti (336.122 nm)	0.0008 (ppm)	10.14	0.0008 (ppm)	-497.2668
3/15/2018 23:39:30	R1801941-002	Tl (351.923 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	20.5320
3/15/2018 23:39:30	R1801941-002	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	131.1932
3/15/2018 23:39:30	R1801941-002	Y (360.074 nm)	1.04 (Ratio)	0.62	1.04 (Ratio)	772750.44
3/15/2018 23:39:30	R1801941-002	Y_R (360.074 nm)	1.04 (Ratio)	0.62	1.04 (Ratio)	773088.46
3/15/2018 23:39:30	R1801941-002	Zn (213.857 nm)	0.0505 (ppm)	0.18	0.0505 (ppm)	1395.8696
3/15/2018 23:42:48	R1801943-001	Ag (328.068 nm)	-0.0003 u (ppm)	35.87	-0.0003 (ppm)	-112.8797
3/15/2018 23:42:48	R1801943-001	Al (394.401 nm)	0.0189 (ppm)	2.45	0.0189 (ppm)	311.8929
3/15/2018 23:42:48	R1801943-001	As (188.980 nm)	0.0037 (ppm)	59.92	0.0037 (ppm)	-1.1321
3/15/2018 23:42:48	R1801943-001	B (249.772 nm)	0.0500 (ppm)	0.33	0.0500 (ppm)	1411.7191
3/15/2018 23:42:48	R1801943-001	Ba (230.424 nm)	0.1215 (ppm)	0.80	0.1215 (ppm)	3543.2060
3/15/2018 23:42:48	R1801943-001	Be (313.107 nm)	0.0000 (ppm)	43.50	0.0000 (ppm)	-563.3752
3/15/2018 23:42:48	R1801943-001	Ca (227.547 nm)	40.1413 (ppm)	0.30	40.1413 (ppm)	1900.1974
3/15/2018 23:42:48	R1801943-001	Cd (214.439 nm)	-0.0002 u (ppm)	15.58	-0.0002 (ppm)	13.8662
3/15/2018 23:42:48	R1801943-001	Co (230.786 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-6.5364
3/15/2018 23:42:48	R1801943-001	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-2.6275
3/15/2018 23:42:48	R1801943-001	Cu (327.395 nm)	0.0149 (ppm)	0.29	0.0149 (ppm)	758.1988
3/15/2018 23:42:48	R1801943-001	Fe (234.350 nm)	0.4411 (ppm)	0.20	0.4411 (ppm)	4333.7320
3/15/2018 23:42:48	R1801943-001	K (766.491 nm)	0.7747 (ppm)	0.23	0.7747 (ppm)	1847.8526
3/15/2018 23:42:48	R1801943-001	Mg (279.078 nm)	13.0167 (ppm)	0.10	13.0167 (ppm)	23979.4166
3/15/2018 23:42:48	R1801943-001	Mn (257.610 nm)	0.0476 (ppm)	0.05	0.0476 (ppm)	13070.3157
3/15/2018 23:42:48	R1801943-001	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.6211
3/15/2018 23:42:48	R1801943-001	Na (588.995 nm)	15.2661 (ppm)	0.06	15.2661 (ppm)	523936.0504

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:42:48	R1801943-001	Ni (230.299 nm)	-0.0059 u (ppm)	13.77	-0.0059 (ppm)	-59.7916
3/15/2018 23:42:48	R1801943-001	Pb (220.353 nm)	-0.0019 u (ppm)	67.26	-0.0019 (ppm)	2.3358
3/15/2018 23:42:48	R1801943-001	Sb (217.582 nm)	0.0058 (ppm)	81.09	0.0058 (ppm)	7.2667
3/15/2018 23:42:48	R1801943-001	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	3.0476
3/15/2018 23:42:48	R1801943-001	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.0495
3/15/2018 23:42:48	R1801943-001	Sr (216.596 nm)	0.2983 (ppm)	0.44	0.2983 (ppm)	3851.9941
3/15/2018 23:42:48	R1801943-001	Ti (336.122 nm)	0.0008 (ppm)	9.05	0.0008 (ppm)	-497.6208
3/15/2018 23:42:48	R1801943-001	Tl (351.923 nm)	-0.0047 u (ppm)	83.72	-0.0047 (ppm)	14.6411
3/15/2018 23:42:48	R1801943-001	V (292.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	138.5980
3/15/2018 23:42:48	R1801943-001	Y (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	756296.80
3/15/2018 23:42:48	R1801943-001	Y_R (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	756664.73
3/15/2018 23:42:48	R1801943-001	Zn (213.857 nm)	0.0046 (ppm)	4.51	0.0046 (ppm)	101.6445
3/15/2018 23:46:07	R1801944-002	Ag (328.068 nm)	-0.0003 u (ppm)	51.63	-0.0003 (ppm)	-115.3425
3/15/2018 23:46:07	R1801944-002	Al (394.401 nm)	0.0415 (ppm)	1.35	0.0415 (ppm)	550.8440
3/15/2018 23:46:07	R1801944-002	As (188.980 nm)	0.0035 (ppm)	85.01	0.0035 (ppm)	-1.2907
3/15/2018 23:46:07	R1801944-002	B (249.772 nm)	0.0741 (ppm)	0.43	0.0741 (ppm)	2057.0782
3/15/2018 23:46:07	R1801944-002	Ba (230.424 nm)	0.0912 (ppm)	0.67	0.0912 (ppm)	2660.9120
3/15/2018 23:46:07	R1801944-002	Be (313.107 nm)	0.0000 (ppm)	9.86	0.0000 (ppm)	-554.4236
3/15/2018 23:46:07	R1801944-002	Ca (227.547 nm)	29.4655 (ppm)	0.26	29.4655 (ppm)	1396.4917
3/15/2018 23:46:07	R1801944-002	Cd (214.439 nm)	-0.0001 u (ppm)	57.08	-0.0001 (ppm)	15.2777
3/15/2018 23:46:07	R1801944-002	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2468
3/15/2018 23:46:07	R1801944-002	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-7.3612
3/15/2018 23:46:07	R1801944-002	Cu (327.395 nm)	0.0003 (ppm)	44.25	0.0003 (ppm)	25.7944
3/15/2018 23:46:07	R1801944-002	Fe (234.350 nm)	0.3645 (ppm)	0.22	0.3645 (ppm)	3584.3493
3/15/2018 23:46:07	R1801944-002	K (766.491 nm)	0.7564 (ppm)	0.96	0.7564 (ppm)	1804.1880
3/15/2018 23:46:07	R1801944-002	Mg (279.078 nm)	8.9571 (ppm)	0.08	8.9571 (ppm)	16499.0884
3/15/2018 23:46:07	R1801944-002	Mn (257.610 nm)	0.1059 (ppm)	0.01	0.1059 (ppm)	29073.6130
3/15/2018 23:46:07	R1801944-002	Mo (202.032 nm)	0.0003 (ppm)	35.84	0.0003 (ppm)	7.9738
3/15/2018 23:46:07	R1801944-002	Na (588.895 nm)	13.9035 (ppm)	0.15	13.9035 (ppm)	476415.7856
3/15/2018 23:46:07	R1801944-002	Ni (230.299 nm)	-0.0049 u (ppm)	14.42	-0.0049 (ppm)	-53.6513
3/15/2018 23:46:07	R1801944-002	Pb (220.353 nm)	-0.0030 u (ppm)	70.87	-0.0030 (ppm)	0.0734
3/15/2018 23:46:07	R1801944-002	Sb (217.582 nm)	0.0024 (ppm)	79.53	0.0024 (ppm)	2.8948
3/15/2018 23:46:07	R1801944-002	Se (196.026 nm)	-0.0055 u (ppm)	49.03	-0.0055 (ppm)	-1.3492
3/15/2018 23:46:07	R1801944-002	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.1264
3/15/2018 23:46:07	R1801944-002	Sr (216.596 nm)	0.3448 (ppm)	0.31	0.3448 (ppm)	4452.3455
3/15/2018 23:46:07	R1801944-002	Ti (336.122 nm)	0.0009 (ppm)	5.47	0.0009 (ppm)	-486.2762
3/15/2018 23:46:07	R1801944-002	Tl (351.923 nm)	-0.0045 u (ppm)	62.82	-0.0045 (ppm)	14.9633
3/15/2018 23:46:07	R1801944-002	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	134.6421
3/15/2018 23:46:07	R1801944-002	Y (360.074 nm)	1.02 (Ratio)	0.30	1.02 (Ratio)	758344.95
3/15/2018 23:46:07	R1801944-002	Y_R (360.074 nm)	1.02 (Ratio)	0.30	1.02 (Ratio)	758710.71
3/15/2018 23:46:07	R1801944-002	Zn (213.857 nm)	0.0035 (ppm)	3.29	0.0035 (ppm)	71.7517
3/15/2018 23:49:25	R1801944-003	Ag (328.068 nm)	-0.0003 u (ppm)	59.85	-0.0003 (ppm)	-113.9136
3/15/2018 23:49:25	R1801944-003	Al (394.401 nm)	0.0286 (ppm)	2.57	0.0286 (ppm)	414.3266
3/15/2018 23:49:25	R1801944-003	As (188.980 nm)	0.0021 (ppm)	> 100.00	0.0021 (ppm)	-2.5165
3/15/2018 23:49:25	R1801944-003	B (249.772 nm)	0.0403 (ppm)	0.52	0.0403 (ppm)	1153.2818
3/15/2018 23:49:25	R1801944-003	Ba (230.424 nm)	0.1419 (ppm)	0.18	0.1419 (ppm)	4136.6291
3/15/2018 23:49:25	R1801944-003	Be (313.107 nm)	0.0000 (ppm)	32.54	0.0000 (ppm)	-563.6853
3/15/2018 23:49:25	R1801944-003	Ca (227.547 nm)	75.8125 u (ppm)	0.41	75.8125 (ppm)	3583.2241
3/15/2018 23:49:25	R1801944-003	Cd (214.439 nm)	-0.0002 u (ppm)	88.59	-0.0002 (ppm)	13.2514
3/15/2018 23:49:25	R1801944-003	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.9176
3/15/2018 23:49:25	R1801944-003	Cr (267.716 nm)	-0.0008 u (ppm)	20.13	-0.0008 (ppm)	-37.7652

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:49:25	R1801944-003	Cu (327.395 nm)	0.0006 (ppm)	13.75	0.0006 (ppm)	35.0135
3/15/2018 23:49:25	R1801944-003	Fe (234.350 nm)	0.0187 (ppm)	0.96	0.0187 (ppm)	201.7018
3/15/2018 23:49:25	R1801944-003	K (766.491 nm)	2.0551 (ppm)	0.67	2.0551 (ppm)	4909.3361
3/15/2018 23:49:25	R1801944-003	Mg (279.078 nm)	27.6323 (ppm)	0.40	27.6323 (ppm)	50910.3256
3/15/2018 23:49:25	R1801944-003	Mn (257.610 nm)	-1.8587 u (ppm)	0.33	1.8587 (ppm)	509865.0459
3/15/2018 23:49:25	R1801944-003	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.4517
3/15/2018 23:49:25	R1801944-003	Na (588.995 nm)	26.5625 (ppm)	0.69	26.5625 (ppm)	917901.2260
3/15/2018 23:49:25	R1801944-003	Ni (230.299 nm)	-0.0054 u (ppm)	28.59	-0.0054 (ppm)	-57.0281
3/15/2018 23:49:25	R1801944-003	Pb (220.353 nm)	-0.0026 u (ppm)	41.66	-0.0026 (ppm)	0.7183
3/15/2018 23:49:25	R1801944-003	Sb (217.582 nm)	0.0037 (ppm)	72.99	0.0037 (ppm)	4.5620
3/15/2018 23:49:25	R1801944-003	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	2.4570
3/15/2018 23:49:25	R1801944-003	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.5323
3/15/2018 23:49:25	R1801944-003	Sr (216.596 nm)	0.2216 (ppm)	0.57	0.2216 (ppm)	2860.9846
3/15/2018 23:49:25	R1801944-003	Ti (336.122 nm)	0.0011 (ppm)	2.64	0.0011 (ppm)	-457.9209
3/15/2018 23:49:25	R1801944-003	Tl (351.923 nm)	-0.0063 u (ppm)	56.06	-0.0063 (ppm)	11.0468
3/15/2018 23:49:25	R1801944-003	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	135.8256
3/15/2018 23:49:25	R1801944-003	Y (360.074 nm)	1.01 (Ratio)	0.78	1.01 (Ratio)	751526.00
3/15/2018 23:49:25	R1801944-003	Y_R (360.074 nm)	1.01 (Ratio)	0.78	1.01 (Ratio)	751877.50
3/15/2018 23:49:25	R1801944-003	Zn (213.857 nm)	0.0022 (ppm)	1.29	0.0022 (ppm)	34.7180
3/15/2018 23:52:45	R1801944-004	Ag (328.068 nm)	-0.0003 u (ppm)	4.28	-0.0003 (ppm)	-115.3251
3/15/2018 23:52:45	R1801944-004	Al (394.401 nm)	0.4729 (ppm)	0.35	0.4729 (ppm)	5108.7645
3/15/2018 23:52:45	R1801944-004	As (188.980 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-3.1472
3/15/2018 23:52:45	R1801944-004	B (249.772 nm)	0.0351 (ppm)	0.90	0.0351 (ppm)	1015.2829
3/15/2018 23:52:45	R1801944-004	Ba (230.424 nm)	0.0283 (ppm)	0.55	0.0283 (ppm)	829.3167
3/15/2018 23:52:45	R1801944-004	Be (313.107 nm)	0.0000 (ppm)	34.85	0.0000 (ppm)	-554.5536
3/15/2018 23:52:45	R1801944-004	Ca (227.547 nm)	32.3427 (ppm)	0.68	32.3427 (ppm)	1532.2429
3/15/2018 23:52:45	R1801944-004	Cd (214.439 nm)	-0.0002 u (ppm)	19.71	-0.0002 (ppm)	13.9384
3/15/2018 23:52:45	R1801944-004	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2947
3/15/2018 23:52:45	R1801944-004	Cr (267.716 nm)	0.0006 (ppm)	3.79	0.0006 (ppm)	22.6048
3/15/2018 23:52:45	R1801944-004	Cu (327.395 nm)	0.0006 (ppm)	31.14	0.0006 (ppm)	36.3538
3/15/2018 23:52:45	R1801944-004	Fe (234.350 nm)	0.2289 (ppm)	0.27	0.2289 (ppm)	2258.2107
3/15/2018 23:52:45	R1801944-004	K (766.491 nm)	2.0378 (ppm)	0.45	2.0378 (ppm)	4868.1537
3/15/2018 23:52:45	R1801944-004	Mg (279.078 nm)	18.8223 (ppm)	0.24	18.8223 (ppm)	34676.8548
3/15/2018 23:52:45	R1801944-004	Mn (257.610 nm)	0.0342 (ppm)	0.66	0.0342 (ppm)	9400.4101
3/15/2018 23:52:45	R1801944-004	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	4.9578
3/15/2018 23:52:45	R1801944-004	Na (588.995 nm)	13.6169 (ppm)	0.46	13.6169 (ppm)	466420.0822
3/15/2018 23:52:45	R1801944-004	Ni (230.299 nm)	-0.0095 u (ppm)	6.61	-0.0095 (ppm)	-82.4310
3/15/2018 23:52:45	R1801944-004	Pb (220.353 nm)	-0.0017 u (ppm)	12.68	-0.0017 (ppm)	2.6843
3/15/2018 23:52:45	R1801944-004	Sb (217.582 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	2.6524
3/15/2018 23:52:45	R1801944-004	Se (196.026 nm)	-0.0011 u (ppm)	51.02	-0.0011 (ppm)	2.0143
3/15/2018 23:52:45	R1801944-004	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.3881
3/15/2018 23:52:45	R1801944-004	Sr (216.596 nm)	0.0798 (ppm)	0.68	0.0798 (ppm)	1028.8097
3/15/2018 23:52:45	R1801944-004	Ti (336.122 nm)	0.0061 (ppm)	2.00	0.0061 (ppm)	404.9320
3/15/2018 23:52:45	R1801944-004	Tl (351.923 nm)	-0.0029 u (ppm)	55.12	-0.0029 (ppm)	18.4948
3/15/2018 23:52:45	R1801944-004	V (292.401 nm)	0.0009 (ppm)	12.71	0.0009 (ppm)	159.8619
3/15/2018 23:52:45	R1801944-004	Y (360.074 nm)	1.02 (Ratio)	0.33	1.02 (Ratio)	756600.33
3/15/2018 23:52:45	R1801944-004	Y_R (360.074 nm)	1.02 (Ratio)	0.33	1.02 (Ratio)	756906.72
3/15/2018 23:52:45	R1801944-004	Zn (213.857 nm)	0.0078 (ppm)	0.97	0.0078 (ppm)	192.4502
3/15/2018 23:56:04	R1801944-005	Ag (328.068 nm)	-0.0003 u (ppm)	15.77	-0.0003 (ppm)	-115.3205
3/15/2018 23:56:04	R1801944-005	Al (394.401 nm)	0.1993 (ppm)	0.41	0.1993 (ppm)	2218.2695
3/15/2018 23:56:04	R1801944-005	As (188.980 nm)	0.0016 (ppm)	78.66	0.0016 (ppm)	-2.9771

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:56:04	R1801944-005	B (249.772 nm)	0.0518 (ppm)	0.89	0.0518 (ppm)	1460.5966
3/15/2018 23:56:04	R1801944-005	Ba (230.424 nm)	0.2803 (ppm)	0.92	0.2803 (ppm)	8166.0521
3/15/2018 23:56:04	R1801944-005	Be (313.107 nm)	0.0000 (ppm)	15.90	0.0000 (ppm)	-547.6293
3/15/2018 23:56:04	R1801944-005	Ca (227.547 nm)	36.6850 (ppm)	0.31	36.6850 (ppm)	1737.1239
3/15/2018 23:56:04	R1801944-005	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.0775
3/15/2018 23:56:04	R1801944-005	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.6873
3/15/2018 23:56:04	R1801944-005	Cr (267.716 nm)	0.0002 (ppm)	73.21	0.0002 (ppm)	4.3511
3/15/2018 23:56:04	R1801944-005	Cu (327.395 nm)	0.0025 (ppm)	6.85	0.0025 (ppm)	132.3241
3/15/2018 23:56:04	R1801944-005	Fe (234.350 nm)	0.2940 (ppm)	0.44	0.2940 (ppm)	2895.1390
3/15/2018 23:56:04	R1801944-005	K (766.491 nm)	4.0554 (ppm)	0.36	4.0554 (ppm)	9692.3474
3/15/2018 23:56:04	R1801944-005	Mg (279.078 nm)	10.4106 (ppm)	0.30	10.4106 (ppm)	19177.2835
3/15/2018 23:56:04	R1801944-005	Mn (257.610 nm)	0.1397 (ppm)	0.21	0.1397 (ppm)	38324.0382
3/15/2018 23:56:04	R1801944-005	Mo (202.032 nm)	0.0007 (ppm)	26.44	0.0007 (ppm)	11.1741
3/15/2018 23:56:04	R1801944-005	Na (588.995 nm)	14.6034 (ppm)	0.59	14.6034 (ppm)	500823.6026
3/15/2018 23:56:04	R1801944-005	Ni (230.299 nm)	-0.0065 u (ppm)	11.01	-0.0065 (ppm)	-63.9288
3/15/2018 23:56:04	R1801944-005	Pb (220.353 nm)	0.0121 (ppm)	7.60	0.0121 (ppm)	30.6317
3/15/2018 23:56:04	R1801944-005	Sb (217.582 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	3.4601
3/15/2018 23:56:04	R1801944-005	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	2.0362
3/15/2018 23:56:04	R1801944-005	Sn (189.925 nm)	0.0021 (ppm)	48.16	0.0021 (ppm)	1.6481
3/15/2018 23:56:04	R1801944-005	Sr (216.596 nm)	0.2477 (ppm)	0.05	0.2477 (ppm)	3198.4793
3/15/2018 23:56:04	R1801944-005	Ti (336.122 nm)	0.0025 (ppm)	3.59	0.0025 (ppm)	-215.9612
3/15/2018 23:56:04	R1801944-005	Tl (351.923 nm)	-0.0067 u (ppm)	45.71	-0.0067 (ppm)	10.1843
3/15/2018 23:56:04	R1801944-005	V (292.401 nm)	0.0014 (ppm)	2.41	0.0014 (ppm)	175.2245
3/15/2018 23:56:04	R1801944-005	Y (360.074 nm)	1.02 (Ratio)	0.48	1.02 (Ratio)	759848.81
3/15/2018 23:56:04	R1801944-005	Y_R (360.074 nm)	1.02 (Ratio)	0.48	1.02 (Ratio)	760147.65
3/15/2018 23:56:04	R1801944-005	Zn (213.857 nm)	0.0045 (ppm)	2.64	0.0045 (ppm)	100.5433
3/15/2018 23:59:24	R1802040-001	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-101.4877
3/15/2018 23:59:24	R1802040-001	Au (394.401 nm)	0.2168 (ppm)	0.12	0.2168 (ppm)	2402.4306
3/15/2018 23:59:24	R1802040-001	As (188.980 nm)	0.0024 (ppm)	84.47	0.0024 (ppm)	-2.2260
3/15/2018 23:59:24	R1802040-001	B (249.772 nm)	0.1087 (ppm)	0.54	0.1087 (ppm)	2980.8782
3/15/2018 23:59:24	R1802040-001	Ba (230.424 nm)	0.0296 (ppm)	0.77	0.0296 (ppm)	869.0423
3/15/2018 23:59:24	R1802040-001	Be (313.107 nm)	0.0000 (ppm)	19.43	0.0000 (ppm)	-535.5313
3/15/2018 23:59:24	R1802040-001	Ca (227.547 nm)	136.3669 u (ppm)	0.29	136.3669 (ppm)	6440.2809
3/15/2018 23:59:24	R1802040-001	Cd (214.439 nm)	-0.0001 u (ppm)	24.11	-0.0001 (ppm)	14.7630
3/15/2018 23:59:24	R1802040-001	Co (230.786 nm)	0.0006 (ppm)	34.59	0.0006 (ppm)	1.6027
3/15/2018 23:59:24	R1802040-001	Cr (267.716 nm)	0.0392 (ppm)	0.63	0.0392 (ppm)	1672.4975
3/15/2018 23:59:24	R1802040-001	Cu (327.395 nm)	0.0102 (ppm)	0.92	0.0102 (ppm)	524.4996
3/15/2018 23:59:24	R1802040-001	Fe (234.350 nm)	0.6623 (ppm)	0.33	0.6623 (ppm)	6498.0999
3/15/2018 23:59:24	R1802040-001	K (766.491 nm)	3.3343 (ppm)	0.07	3.3343 (ppm)	7968.0008
3/15/2018 23:59:24	R1802040-001	Mg (279.078 nm)	66.3995 u (ppm)	0.20	66.3995 (ppm)	122343.3334
3/15/2018 23:59:24	R1802040-001	Mn (257.610 nm)	0.0152 (ppm)	0.46	0.0152 (ppm)	4189.2363
3/15/2018 23:59:24	R1802040-001	Mo (202.032 nm)	0.0114 (ppm)	1.47	0.0114 (ppm)	106.1305
3/15/2018 23:59:24	R1802040-001	Na (588.995 nm)	53.4843 (ppm)	0.11	53.4843 (ppm)	1856809.3691
3/15/2018 23:59:24	R1802040-001	Ni (230.299 nm)	0.0095 (ppm)	15.96	0.0095 (ppm)	36.7827
3/15/2018 23:59:24	R1802040-001	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.9852
3/15/2018 23:59:24	R1802040-001	Sb (217.582 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1474
3/15/2018 23:59:24	R1802040-001	Se (196.026 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	3.9644
3/15/2018 23:59:24	R1802040-001	Sn (189.925 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.7069
3/15/2018 23:59:24	R1802040-001	Sr (216.596 nm)	3.0860 (ppm)	0.49	3.0860 (ppm)	39876.9660
3/15/2018 23:59:24	R1802040-001	Ti (336.122 nm)	0.0070 (ppm)	0.50	0.0070 (ppm)	571.1991
3/15/2018 23:59:24	R1802040-001	Tl (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	21.9159

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/15/2018 23:59:24	R1802040-001	V (292.401 nm)	0.0024 (ppm)	7.75	0.0024 (ppm)	206.5328
3/15/2018 23:59:24	R1802040-001	Y (360.074 nm)	0.99 (Ratio)	0.21	0.99 (Ratio)	737313.72
3/15/2018 23:59:24	R1802040-001	Y_R (360.074 nm)	0.99 (Ratio)	0.21	0.99 (Ratio)	737652.15
3/15/2018 23:59:24	R1802040-001	Zn (213.857 nm)	0.0436 (ppm)	0.57	0.0436 (ppm)	1199.5706
3/16/2018 00:02:42	R1802040-008	Ag (328.068 nm)	-0.0002 u (ppm)	62.30	-0.0002 (ppm)	-108.1023
3/16/2018 00:02:42	R1802040-008	Al (394.401 nm)	0.0313 (ppm)	2.65	0.0313 (ppm)	443.0761
3/16/2018 00:02:42	R1802040-008	As (188.980 nm)	0.0036 (ppm)	34.54	0.0036 (ppm)	-1.2211
3/16/2018 00:02:42	R1802040-008	B (249.772 nm)	0.0610 (ppm)	0.11	0.0610 (ppm)	1706.3527
3/16/2018 00:02:42	R1802040-008	Ba (230.424 nm)	0.0347 (ppm)	0.21	0.0347 (ppm)	1017.4345
3/16/2018 00:02:42	R1802040-008	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-576.1481
3/16/2018 00:02:42	R1802040-008	Ce (227.547 nm)	115.0221 o (ppm)	0.47	115.0221 (ppm)	5433.1985
3/16/2018 00:02:42	R1802040-008	Cd (214.439 nm)	-0.0002 u (ppm)	6.89	-0.0002 (ppm)	13.1418
3/16/2018 00:02:42	R1802040-008	Co (230.786 nm)	0.0042 (ppm)	8.05	0.0042 (ppm)	35.4032
3/16/2018 00:02:42	R1802040-008	Cr (267.716 nm)	0.0049 (ppm)	1.20	0.0049 (ppm)	206.6453
3/16/2018 00:02:42	R1802040-008	Cu (327.395 nm)	0.0004 (ppm)	17.40	0.0004 (ppm)	30.3540
3/16/2018 00:02:42	R1802040-008	Fe (234.350 nm)	1.7023 (ppm)	0.45	1.7023 (ppm)	16673.8818
3/16/2018 00:02:42	R1802040-008	K (766.491 nm)	3.2010 (ppm)	1.13	3.2010 (ppm)	7649.4389
3/16/2018 00:02:42	R1802040-008	Mg (279.078 nm)	63.3593 o (ppm)	0.43	63.3593 (ppm)	116741.3363
3/16/2018 00:02:42	R1802040-008	Mn (257.610 nm)	0.7580 (ppm)	0.40	0.7580 (ppm)	207940.4489
3/16/2018 00:02:42	R1802040-008	Mo (202.032 nm)	0.0066 (ppm)	1.60	0.0066 (ppm)	63.4679
3/16/2018 00:02:42	R1802040-008	Na (588.995 nm)	37.8400 (ppm)	0.66	37.8400 (ppm)	1311207.6397
3/16/2018 00:02:42	R1802040-008	Ni (230.299 nm)	0.2649 (ppm)	0.45	0.2649 (ppm)	1642.5808
3/16/2018 00:02:42	R1802040-008	Pb (220.353 nm)	-0.0022 u (ppm)	42.05	-0.0022 (ppm)	1.6110
3/16/2018 00:02:42	R1802040-008	Sb (217.582 nm)	0.0009 (ppm)	28.82	0.0009 (ppm)	0.9620
3/16/2018 00:02:42	R1802040-008	Se (196.026 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	0.4348
3/16/2018 00:02:42	R1802040-008	Sn (189.925 nm)	0.0008 (ppm)	80.25	0.0008 (ppm)	0.1751
3/16/2018 00:02:42	R1802040-008	Sr (216.596 nm)	2.3932 (ppm)	1.21	2.3932 (ppm)	30923.8284
3/16/2018 00:02:42	R1802040-008	Ti (336.122 nm)	0.0014 (ppm)	3.63	0.0014 (ppm)	-398.4164
3/16/2018 00:02:42	R1802040-008	Tl (351.923 nm)	-0.0056 u (ppm)	68.65	-0.0056 (ppm)	12.5817
3/16/2018 00:02:42	R1802040-008	V (292.401 nm)	0.0006 (ppm)	39.54	0.0006 (ppm)	151.0679
3/16/2018 00:02:42	R1802040-008	Y (360.074 nm)	1.00 (Ratio)	0.68	1.00 (Ratio)	745680.49
3/16/2018 00:02:42	R1802040-008	Y_R (360.074 nm)	1.00 (Ratio)	0.68	1.00 (Ratio)	746011.63
3/16/2018 00:02:42	R1802040-008	Zn (213.857 nm)	0.0037 (ppm)	3.87	0.0037 (ppm)	77.4250
3/16/2018 00:06:00	R1802040-015	Ag (328.068 nm)	-0.0001 u (ppm)	56.78	-0.0001 (ppm)	-106.1514
3/16/2018 00:06:00	R1802040-015	Al (394.401 nm)	0.0284 (ppm)	3.25	0.0284 (ppm)	411.8678
3/16/2018 00:06:00	R1802040-015	As (188.980 nm)	0.0034 u (ppm)	> 100.00	0.0034 (ppm)	-1.3867
3/16/2018 00:06:00	R1802040-015	B (249.772 nm)	0.0600 (ppm)	0.24	0.0600 (ppm)	1680.9336
3/16/2018 00:06:00	R1802040-015	Ba (230.424 nm)	0.0279 (ppm)	0.61	0.0279 (ppm)	818.0792
3/16/2018 00:06:00	R1802040-015	Be (313.107 nm)	0.0000 (ppm)	81.01	0.0000 (ppm)	-580.7710
3/16/2018 00:06:00	R1802040-015	Ce (227.547 nm)	106.9882 o (ppm)	0.30	106.9882 (ppm)	5054.1417
3/16/2018 00:06:00	R1802040-015	Cd (214.439 nm)	-0.0002 u (ppm)	99.67	-0.0002 (ppm)	12.7253
3/16/2018 00:06:00	R1802040-015	Co (230.786 nm)	0.0037 (ppm)	16.46	0.0037 (ppm)	30.8591
3/16/2018 00:06:00	R1802040-015	Cr (267.716 nm)	0.0011 (ppm)	6.57	0.0011 (ppm)	42.0172
3/16/2018 00:06:00	R1802040-015	Cu (327.395 nm)	0.0004 (ppm)	37.97	0.0004 (ppm)	26.9290
3/16/2018 00:06:00	R1802040-015	Fe (234.350 nm)	0.3577 (ppm)	0.48	0.3577 (ppm)	3517.9272
3/16/2018 00:06:00	R1802040-015	K (766.491 nm)	3.3387 (ppm)	0.40	3.3387 (ppm)	7978.7303
3/16/2018 00:06:00	R1802040-015	Mg (279.078 nm)	64.8356 o (ppm)	0.32	64.8356 (ppm)	119461.5849
3/16/2018 00:06:00	R1802040-015	Mn (257.610 nm)	0.1359 (ppm)	0.24	0.1359 (ppm)	37297.8222
3/16/2018 00:06:00	R1802040-015	Mo (202.032 nm)	0.0066 (ppm)	4.07	0.0066 (ppm)	63.6019
3/16/2018 00:06:00	R1802040-015	Na (588.995 nm)	40.0653 (ppm)	0.52	40.0653 (ppm)	1388815.2826
3/16/2018 00:06:00	R1802040-015	Ni (230.299 nm)	0.2328 (ppm)	0.03	0.2328 (ppm)	1441.0263



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:06:00	R1802040-015	Pb (220.353 nm)	-0.0029 u (ppm)	13.68	-0.0029 (ppm)	0.2884
3/16/2018 00:06:00	R1802040-015	Sb (217.582 nm)	0.0031 (ppm)	52.82	0.0031 (ppm)	3.8330
3/16/2018 00:06:00	R1802040-015	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	1.9128
3/16/2018 00:06:00	R1802040-015	Sn (189.925 nm)	-0.0015 u (ppm)	46.98	-0.0015 (ppm)	-2.4516
3/16/2018 00:06:00	R1802040-015	Sr (216.596 nm)	2.5174 (ppm)	1.31	2.5174 (ppm)	32528.9509
3/16/2018 00:06:00	R1802040-015	Ti (336.122 nm)	0.0013 (ppm)	3.77	0.0013 (ppm)	-408.4324
3/16/2018 00:06:00	R1802040-015	Tl (351.923 nm)	-0.0050 u (ppm)	54.90	-0.0050 (ppm)	13.8372
3/16/2018 00:06:00	R1802040-015	V (292.401 nm)	0.0034 (ppm)	5.64	0.0034 (ppm)	238.6125
3/16/2018 00:06:00	R1802040-015	Y (360.074 nm)	1.00 (Ratio)	0.74	1.00 (Ratio)	746236.82
3/16/2018 00:06:00	R1802040-015	Y_R (360.074 nm)	1.00 (Ratio)	0.74	1.00 (Ratio)	746566.93
3/16/2018 00:06:00	R1802040-015	Zn (213.857 nm)	0.0039 (ppm)	0.74	0.0039 (ppm)	82.5718
3/16/2018 00:09:19	Continuing Calibration Verification1	Ag (328.068 nm)	0.4717 (ppm)	0.41	0.4717 (ppm)	28957.6124
3/16/2018 00:09:19	Continuing Calibration Verification1	Al (394.401 nm)	9.3547 (ppm)	0.41	9.3547 (ppm)	98950.1372
3/16/2018 00:09:19	Continuing Calibration Verification1	As (188.980 nm)	0.9890 (ppm)	0.47	0.9890 (ppm)	856.0017
3/16/2018 00:09:19	Continuing Calibration Verification1	B (249.772 nm)	2.3908 (ppm)	0.40	2.3908 (ppm)	63998.7184
3/16/2018 00:09:19	Continuing Calibration Verification1	Ba (230.424 nm)	10.0470 (ppm)	0.49	10.0470 (ppm)	292514.1052
3/16/2018 00:09:19	Continuing Calibration Verification1	Be (313.107 nm)	0.2467 (ppm)	0.45	0.2467 (ppm)	324411.3799
3/16/2018 00:09:19	Continuing Calibration Verification1	Ca (227.547 nm)	23.3937 (ppm)	0.59	23.3937 (ppm)	1110.0159
3/16/2018 00:09:19	Continuing Calibration Verification1	Cd (214.439 nm)	0.5013 (ppm)	0.29	0.5013 (ppm)	10382.0912
3/16/2018 00:09:19	Continuing Calibration Verification1	Co (230.786 nm)	2.5127 (ppm)	0.34	2.5127 (ppm)	23228.9235
3/16/2018 00:09:19	Continuing Calibration Verification1	Cr (267.716 nm)	0.5083 (ppm)	0.39	0.5083 (ppm)	21745.7623
3/16/2018 00:09:19	Continuing Calibration Verification1	Cu (327.395 nm)	1.1869 (ppm)	0.51	1.1869 (ppm)	59814.3829
3/16/2018 00:09:19	Continuing Calibration Verification1	Fe (234.350 nm)	4.9035 (ppm)	0.42	4.9035 (ppm)	47994.8693
3/16/2018 00:09:19	Continuing Calibration Verification1	K (766.491 nm)	24.1969 (ppm)	0.78	24.1969 (ppm)	57852.4957
3/16/2018 00:09:19	Continuing Calibration Verification1	Mg (279.078 nm)	24.4255 (ppm)	0.40	24.4255 (ppm)	45001.2918
3/16/2018 00:09:19	Continuing Calibration Verification1	Mn (257.610 nm)	0.7499 (ppm)	0.30	0.7499 (ppm)	205707.7729
3/16/2018 00:09:19	Continuing Calibration Verification1	Mo (202.032 nm)	2.4546 (ppm)	0.22	2.4546 (ppm)	21836.9348
3/16/2018 00:09:19	Continuing Calibration Verification1	Na (588.995 nm)	24.5460 (ppm)	0.65	24.5460 (ppm)	847576.4845
3/16/2018 00:09:19	Continuing Calibration Verification1	Ni (230.299 nm)	2.0219 (ppm)	0.29	2.0219 (ppm)	12691.8267
3/16/2018 00:09:19	Continuing Calibration Verification1	Pb (220.353 nm)	0.4980 (ppm)	0.18	0.4980 (ppm)	1017.6407
3/16/2018 00:09:19	Continuing Calibration Verification1	Sb (217.582 nm)	4.9967 (ppm)	0.46	4.9967 (ppm)	6375.5614
3/16/2018 00:09:19	Continuing Calibration Verification1	Se (196.026 nm)	0.4912 (ppm)	1.79	0.4912 (ppm)	374.5620
3/16/2018 00:09:19	Continuing Calibration Verification1	Sn (189.925 nm)	5.0487 (ppm)	0.73	5.0487 (ppm)	5714.6508
3/16/2018 00:09:19	Continuing Calibration Verification1	Sr (216.596 nm)	2.4777 (ppm)	0.18	2.4777 (ppm)	32015.9689
3/16/2018 00:09:19	Continuing Calibration Verification1	Ti (336.122 nm)	2.4239 (ppm)	0.41	2.4239 (ppm)	416842.6055
3/16/2018 00:09:19	Continuing Calibration Verification1	Tl (351.923 nm)	0.9852 (ppm)	0.30	0.9852 (ppm)	2173.3495
3/16/2018 00:09:19	Continuing Calibration Verification1	V (292.401 nm)	2.4578 (ppm)	0.30	2.4578 (ppm)	75511.0665
3/16/2018 00:09:19	Continuing Calibration Verification1	Y (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	752669.95
3/16/2018 00:09:19	Continuing Calibration Verification1	Y_R (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	752972.14
3/16/2018 00:09:19	Continuing Calibration Verification1	Zn (213.857 nm)	0.9548 (ppm)	0.39	0.9548 (ppm)	26863.0656
3/16/2018 00:12:38	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-98.0042
3/16/2018 00:12:38	Continuing Calibration Blank1	Al (394.401 nm)	0.0029 (ppm)	10.02	0.0029 (ppm)	142.7052
3/16/2018 00:12:38	Continuing Calibration Blank1	As (188.980 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	-1.7055
3/16/2018 00:12:38	Continuing Calibration Blank1	B (249.772 nm)	0.0017 (ppm)	15.54	0.0017 (ppm)	121.4735
3/16/2018 00:12:38	Continuing Calibration Blank1	Ba (230.424 nm)	0.0034 (ppm)	4.65	0.0034 (ppm)	104.0578
3/16/2018 00:12:38	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	2.90	0.0001 (ppm)	-462.1300
3/16/2018 00:12:38	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0128 u (ppm)	> 100.00	-0.0128 (ppm)	5.6568
3/16/2018 00:12:38	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 (ppm)	46.77	0.0002 (ppm)	21.4688
3/16/2018 00:12:38	Continuing Calibration Blank1	Co (230.786 nm)	0.0006 (ppm)	70.56	0.0006 (ppm)	2.0899
3/16/2018 00:12:38	Continuing Calibration Blank1	Cr (267.716 nm)	0.0003 (ppm)	56.94	0.0003 (ppm)	9.5025
3/16/2018 00:12:38	Continuing Calibration Blank1	Cu (327.395 nm)	0.0005 (ppm)	10.21	0.0005 (ppm)	34.3183

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:12:38	Continuing Calibration Blank1	Fe (234.350 nm)	0.0022 (ppm)	8.86	0.0022 (ppm)	39.5992
3/16/2018 00:12:38	Continuing Calibration Blank1	K (766.491 nm)	0.0135 (ppm)	34.28	0.0135 (ppm)	27.7267
3/16/2018 00:12:38	Continuing Calibration Blank1	Mg (279.078 nm)	0.0071 (ppm)	5.84	0.0071 (ppm)	7.5768
3/16/2018 00:12:38	Continuing Calibration Blank1	Mn (257.610 nm)	0.0003 (ppm)	6.74	0.0003 (ppm)	84.9835
3/16/2018 00:12:38	Continuing Calibration Blank1	Mo (202.032 nm)	0.0025 (ppm)	7.54	0.0025 (ppm)	27.5482
3/16/2018 00:12:38	Continuing Calibration Blank1	Na (588.995 nm)	0.0164 (ppm)	5.17	0.0164 (ppm)	-7902.1709
3/16/2018 00:12:38	Continuing Calibration Blank1	Ni (230.299 nm)	0.0012 (ppm)	30.16	0.0012 (ppm)	-15.4632
3/16/2018 00:12:38	Continuing Calibration Blank1	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.5088
3/16/2018 00:12:38	Continuing Calibration Blank1	Sb (217.582 nm)	0.0021 u (ppm)	95.70	0.0021 (ppm)	2.5229
3/16/2018 00:12:38	Continuing Calibration Blank1	Se (196.026 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	4.6772
3/16/2018 00:12:38	Continuing Calibration Blank1	Sn (189.925 nm)	0.0025 (ppm)	19.59	0.0025 (ppm)	2.1166
3/16/2018 00:12:38	Continuing Calibration Blank1	Sr (216.596 nm)	0.0008 (ppm)	43.07	0.0008 (ppm)	7.5549
3/16/2018 00:12:38	Continuing Calibration Blank1	Ti (336.122 nm)	0.0016 (ppm)	4.03	0.0016 (ppm)	-364.0007
3/16/2018 00:12:38	Continuing Calibration Blank1	Tl (351.923 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	24.8854
3/16/2018 00:12:38	Continuing Calibration Blank1	V (292.401 nm)	0.0006 (ppm)	7.74	0.0006 (ppm)	152.8557
3/16/2018 00:12:38	Continuing Calibration Blank1	Y (360.074 nm)	1.04 (Ratio)	0.51	1.04 (Ratio)	772957.23
3/16/2018 00:12:38	Continuing Calibration Blank1	Y_R (360.074 nm)	1.04 (Ratio)	0.51	1.04 (Ratio)	773193.23
3/16/2018 00:12:38	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	12.89	0.0003 (ppm)	-19.8380
3/16/2018 00:15:56	R1802040-020	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-94.3599
3/16/2018 00:15:56	R1802040-020	Al (394.401 nm)	0.2084 (ppm)	0.50	0.2084 (ppm)	2314.2601
3/16/2018 00:15:56	R1802040-020	As (188.980 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-2.9193
3/16/2018 00:15:56	R1802040-020	B (249.772 nm)	0.6226 (ppm)	0.41	0.6226 (ppm)	16722.6195
3/16/2018 00:15:56	R1802040-020	Ba (230.424 nm)	0.0518 (ppm)	1.20	0.0518 (ppm)	1515.3965
3/16/2018 00:15:56	R1802040-020	Be (313.107 nm)	0.0000 (ppm)	31.30	0.0000 (ppm)	-570.2270
3/16/2018 00:15:56	R1802040-020	Ca (227.547 nm)	142.9892 o (ppm)	0.40	142.9892 (ppm)	6752.7302
3/16/2018 00:15:56	R1802040-020	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.5010
3/16/2018 00:15:56	R1802040-020	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-1.2286
3/16/2018 00:15:56	R1802040-020	Cr (267.716 nm)	0.0042 (ppm)	4.86	0.0042 (ppm)	177.5917
3/16/2018 00:15:56	R1802040-020	Cu (327.395 nm)	0.0019 (ppm)	10.49	0.0019 (ppm)	103.3435
3/16/2018 00:15:56	R1802040-020	Fe (234.350 nm)	0.1808 (ppm)	0.65	0.1808 (ppm)	1787.6322
3/16/2018 00:15:56	R1802040-020	K (766.491 nm)	4.4290 (ppm)	0.55	4.4290 (ppm)	10585.5971
3/16/2018 00:15:56	R1802040-020	Mg (279.078 nm)	95.1770 o (ppm)	0.51	95.1770 (ppm)	175369.1590
3/16/2018 00:15:56	R1802040-020	Mn (257.610 nm)	0.0058 (ppm)	0.66	0.0058 (ppm)	1603.1680
3/16/2018 00:15:56	R1802040-020	Mo (202.032 nm)	0.0110 (ppm)	2.94	0.0110 (ppm)	102.4950
3/16/2018 00:15:56	R1802040-020	Na (588.995 nm)	131.1004 o (ppm)	0.38	131.1004 (ppm)	4563695.2513
3/16/2018 00:15:56	R1802040-020	Ni (230.299 nm)	-0.0114 u (ppm)	5.17	-0.0114 (ppm)	-94.6525
3/16/2018 00:15:56	R1802040-020	Pb (220.353 nm)	-0.0009 u (ppm)	70.86	-0.0009 (ppm)	4.3683
3/16/2018 00:15:56	R1802040-020	Sb (217.582 nm)	0.0028 (ppm)	78.79	0.0028 (ppm)	3.3964
3/16/2018 00:15:56	R1802040-020	Se (196.026 nm)	0.0086 (ppm)	18.96	0.0086 (ppm)	9.3646
3/16/2018 00:15:56	R1802040-020	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.7764
3/16/2018 00:15:56	R1802040-020	Sr (216.596 nm)	5.0229 (ppm)	0.62	5.0229 (ppm)	64907.3704
3/16/2018 00:15:56	R1802040-020	Ti (336.122 nm)	0.0053 (ppm)	1.00	0.0053 (ppm)	278.3542
3/16/2018 00:15:56	R1802040-020	Tl (351.923 nm)	-0.0049 u (ppm)	81.70	-0.0049 (ppm)	14.1441
3/16/2018 00:15:56	R1802040-020	V (292.401 nm)	0.0021 (ppm)	5.55	0.0021 (ppm)	196.6467
3/16/2018 00:15:56	R1802040-020	Y (360.074 nm)	0.99 (Ratio)	0.15	0.99 (Ratio)	734163.63
3/16/2018 00:15:56	R1802040-020	Y_R (360.074 nm)	0.99 (Ratio)	0.15	0.99 (Ratio)	734506.63
3/16/2018 00:15:56	R1802040-020	Zn (213.857 nm)	0.0061 (ppm)	1.47	0.0061 (ppm)	143.5799
3/16/2018 00:19:15	R1802040-021	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-105.5298
3/16/2018 00:19:15	R1802040-021	Al (394.401 nm)	0.0008 (ppm)	66.88	0.0008 (ppm)	120.7710
3/16/2018 00:19:15	R1802040-021	As (188.980 nm)	0.0026 (ppm)	63.02	0.0026 (ppm)	-2.0779
3/16/2018 00:19:15	R1802040-021	B (249.772 nm)	0.0102 (ppm)	0.83	0.0102 (ppm)	348.5922

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:19:15	R1802040-021	Be (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.6736
3/16/2018 00:19:15	R1802040-021	Be (313.107 nm)	0.0000 (ppm)	59.90	0.0000 (ppm)	-565.8455
3/16/2018 00:19:15	R1802040-021	Ca (227.547 nm)	0.0093 u (ppm)	> 100.00	0.0093 (ppm)	6.6996
3/16/2018 00:19:15	R1802040-021	Cd (214.439 nm)	-0.0002 u (ppm)	53.19	-0.0002 (ppm)	12.4837
3/16/2018 00:19:15	R1802040-021	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.5677
3/16/2018 00:19:15	R1802040-021	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.7064
3/16/2018 00:19:15	R1802040-021	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	12.7795
3/16/2018 00:19:15	R1802040-021	Fe (234.350 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	16.5363
3/16/2018 00:19:15	R1802040-021	K (766.491 nm)	-0.0037 u (ppm)	89.11	-0.0037 (ppm)	-13.4459
3/16/2018 00:19:15	R1802040-021	Mg (279.078 nm)	0.0163 (ppm)	75.95	0.0163 (ppm)	24.6633
3/16/2018 00:19:15	R1802040-021	Mn (257.610 nm)	0.0001 (ppm)	9.13	0.0001 (ppm)	36.1497
3/16/2018 00:19:15	R1802040-021	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.0700
3/16/2018 00:19:15	R1802040-021	Na (588.995 nm)	0.0477 (ppm)	33.70	0.0477 (ppm)	-6808.5542
3/16/2018 00:19:15	R1802040-021	Ni (230.299 nm)	0.0006 (ppm)	38.29	0.0006 (ppm)	-19.4350
3/16/2018 00:19:15	R1802040-021	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.7102
3/16/2018 00:19:15	R1802040-021	Sb (217.582 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	2.0153
3/16/2018 00:19:15	R1802040-021	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	1.6002
3/16/2018 00:19:15	R1802040-021	Sn (189.925 nm)	0.0014 (ppm)	88.22	0.0014 (ppm)	0.7820
3/16/2018 00:19:15	R1802040-021	Sr (216.596 nm)	0.0009 (ppm)	75.58	0.0009 (ppm)	9.2520
3/16/2018 00:19:15	R1802040-021	Ti (336.122 nm)	0.0008 (ppm)	8.59	0.0008 (ppm)	-494.3293
3/16/2018 00:19:15	R1802040-021	Tl (351.923 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	27.6099
3/16/2018 00:19:15	R1802040-021	V (292.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	127.4252
3/16/2018 00:19:15	R1802040-021	Y (360.074 nm)	1.05 (Ratio)	0.12	1.05 (Ratio)	783108.35
3/16/2018 00:19:15	R1802040-021	Y_R (360.074 nm)	1.05 (Ratio)	0.12	1.05 (Ratio)	783388.51
3/16/2018 00:19:15	R1802040-021	Zn (213.857 nm)	0.0016 (ppm)	6.96	0.0016 (ppm)	19.2624
3/16/2018 00:22:33	R1802055-001 10X	Ag (328.068 nm)	-0.0002 u (ppm)	33.54	-0.0002 (ppm)	-110.1387
3/16/2018 00:22:33	R1802055-001 10X	Al (394.401 nm)	0.0991 (ppm)	0.67	0.0991 (ppm)	1159.6897
3/16/2018 00:22:33	R1802055-001 10X	As (188.980 nm)	0.0206 (ppm)	7.05	0.0206 (ppm)	13.5844
3/16/2018 00:22:33	R1802055-001 10X	B (249.772 nm)	1.4950 (ppm)	1.05	1.4950 (ppm)	40048.3244
3/16/2018 00:22:33	R1802055-001 10X	Be (230.424 nm)	0.1513 (ppm)	0.89	0.1513 (ppm)	4412.0930
3/16/2018 00:22:33	R1802055-001 10X	Be (313.107 nm)	0.0000 (ppm)	88.51	0.0000 (ppm)	-607.9055
3/16/2018 00:22:33	R1802055-001 10X	Ca (227.547 nm)	12.0581 (ppm)	1.23	12.0581 (ppm)	575.1821
3/16/2018 00:22:33	R1802055-001 10X	Cd (214.439 nm)	-0.0004 u (ppm)	46.49	-0.0004 (ppm)	8.1804
3/16/2018 00:22:33	R1802055-001 10X	Co (230.786 nm)	0.0029 (ppm)	30.26	0.0029 (ppm)	22.9430
3/16/2018 00:22:33	R1802055-001 10X	Cr (267.716 nm)	0.0258 (ppm)	1.08	0.0258 (ppm)	1099.0093
3/16/2018 00:22:33	R1802055-001 10X	Cu (327.395 nm)	0.0011 (ppm)	14.40	0.0011 (ppm)	64.8372
3/16/2018 00:22:33	R1802055-001 10X	Fe (234.350 nm)	0.6085 (ppm)	1.12	0.6085 (ppm)	5971.6426
3/16/2018 00:22:33	R1802055-001 10X	K (766.491 nm)	91.5487 u (ppm)	1.10	91.5487 (ppm)	218896.4726
3/16/2018 00:22:33	R1802055-001 10X	Mg (279.078 nm)	15.3591 (ppm)	0.87	15.3591 (ppm)	28295.4211
3/16/2018 00:22:33	R1802055-001 10X	Mn (257.610 nm)	0.0212 (ppm)	0.84	0.0212 (ppm)	5819.5643
3/16/2018 00:22:33	R1802055-001 10X	Mo (202.032 nm)	0.0012 (ppm)	45.83	0.0012 (ppm)	15.4696
3/16/2018 00:22:33	R1802055-001 10X	Na (588.995 nm)	222.3597 u (ppm)	1.03	222.3597 (ppm)	7746390.9062
3/16/2018 00:22:33	R1802055-001 10X	Ni (230.299 nm)	0.0163 (ppm)	3.33	0.0163 (ppm)	79.1991
3/16/2018 00:22:33	R1802055-001 10X	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	3.9027
3/16/2018 00:22:33	R1802055-001 10X	Sb (217.582 nm)	0.0037 (ppm)	72.65	0.0037 (ppm)	4.5413
3/16/2018 00:22:33	R1802055-001 10X	Se (196.026 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	1.1681
3/16/2018 00:22:33	R1802055-001 10X	Sn (189.925 nm)	0.0044 (ppm)	19.81	0.0044 (ppm)	4.2362
3/16/2018 00:22:33	R1802055-001 10X	Sr (216.596 nm)	0.2009 (ppm)	1.19	0.2009 (ppm)	2592.7745
3/16/2018 00:22:33	R1802055-001 10X	Ti (336.122 nm)	0.0257 (ppm)	0.91	0.0257 (ppm)	3784.4686
3/16/2018 00:22:33	R1802055-001 10X	Tl (351.923 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	27.3409
3/16/2018 00:22:33	R1802055-001 10X	V (292.401 nm)	0.0053 (ppm)	5.81	0.0053 (ppm)	295.2069

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:22:33	R1802055-001 10X	Y (360.074 nm)	1.00 (Ratio)	1.08	1.00 (Ratio)	740387.69
3/16/2018 00:22:33	R1802055-001 10X	Y_R (360.074 nm)	1.00 (Ratio)	1.08	1.00 (Ratio)	740824.01
3/16/2018 00:22:33	R1802055-001 10X	Zn (213.857 nm)	0.0136 (ppm)	0.95	0.0136 (ppm)	357.3073
3/16/2018 00:25:52	R1802055-002 10X	Ag (328.068 nm)	-0.0002 u (ppm)	60.84	-0.0002 (ppm)	-111.9268
3/16/2018 00:25:52	R1802055-002 10X	Al (394.401 nm)	0.1744 (ppm)	0.95	0.1744 (ppm)	1955.1768
3/16/2018 00:25:52	R1802055-002 10X	As (188.980 nm)	0.0572 (ppm)	2.16	0.0572 (ppm)	45.4075
3/16/2018 00:25:52	R1802055-002 10X	B (249.772 nm)	3.9552 (ppm)	0.57	3.9552 (ppm)	105826.8258
3/16/2018 00:25:52	R1802055-002 10X	Ba (230.424 nm)	0.1445 (ppm)	0.21	0.1445 (ppm)	4212.0453
3/16/2018 00:25:52	R1802055-002 10X	Be (313.107 nm)	0.0000 (ppm)	18.68	0.0000 (ppm)	-616.3872
3/16/2018 00:25:52	R1802055-002 10X	Ca (227.547 nm)	32.4217 (ppm)	0.82	32.4217 (ppm)	1535.9717
3/16/2018 00:25:52	R1802055-002 10X	Cd (214.439 nm)	-0.0005 u (ppm)	15.20	-0.0005 (ppm)	6.2535
3/16/2018 00:25:52	R1802055-002 10X	Co (230.786 nm)	0.0085 (ppm)	1.74	0.0085 (ppm)	74.9615
3/16/2018 00:25:52	R1802055-002 10X	Cr (267.716 nm)	0.0750 (ppm)	0.64	0.0750 (ppm)	3204.5950
3/16/2018 00:25:52	R1802055-002 10X	Cu (327.395 nm)	0.0021 (ppm)	5.63	0.0021 (ppm)	115.5696
3/16/2018 00:25:52	R1802055-002 10X	Fe (234.350 nm)	1.3652 (ppm)	0.70	1.3652 (ppm)	13375.7842
3/16/2018 00:25:52	R1802055-002 10X	K (766.491 nm)	271.8793 o (ppm)	0.80	271.8793 (ppm)	650082.6398
3/16/2018 00:25:52	R1802055-002 10X	Mg (279.078 nm)	44.8179 (ppm)	1.05	44.8179 (ppm)	82576.7762
3/16/2018 00:25:52	R1802055-002 10X	Mn (257.610 nm)	0.0525 (ppm)	0.79	0.0525 (ppm)	14402.8793
3/16/2018 00:25:52	R1802055-002 10X	Mo (202.032 nm)	0.0024 (ppm)	7.40	0.0024 (ppm)	26.4432
3/16/2018 00:25:52	R1802055-002 10X	Na (588.995 nm)	586.3635 o (ppm)	0.80	586.3635 (ppm)	20441137.4638
3/16/2018 00:25:52	R1802055-002 10X	Ni (230.299 nm)	0.0438 (ppm)	1.50	0.0438 (ppm)	252.3177
3/16/2018 00:25:52	R1802055-002 10X	Pb (220.353 nm)	-0.0021 u (ppm)	73.52	-0.0021 (ppm)	1.8867
3/16/2018 00:25:52	R1802055-002 10X	Sb (217.582 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	3.7128
3/16/2018 00:25:52	R1802055-002 10X	Se (196.026 nm)	-0.0057 u (ppm)	77.95	-0.0057 (ppm)	-1.5116
3/16/2018 00:25:52	R1802055-002 10X	Sn (189.925 nm)	0.0077 (ppm)	8.13	0.0077 (ppm)	7.9631
3/16/2018 00:25:52	R1802055-002 10X	Sr (216.596 nm)	0.5330 (ppm)	0.47	0.5330 (ppm)	6884.9636
3/16/2018 00:25:52	R1802055-002 10X	Ti (336.122 nm)	0.0714 (ppm)	0.79	0.0714 (ppm)	11658.7999
3/16/2018 00:25:52	R1802055-002 10X	Ti (351.923 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	20.9704
3/16/2018 00:25:52	R1802055-002 10X	V (292.401 nm)	0.0159 (ppm)	0.53	0.0159 (ppm)	620.6337
3/16/2018 00:25:52	R1802055-002 10X	Y (360.074 nm)	0.95 (Ratio)	1.00	0.95 (Ratio)	703247.98
3/16/2018 00:25:52	R1802055-002 10X	Y_R (360.074 nm)	0.95 (Ratio)	1.01	0.95 (Ratio)	703784.54
3/16/2018 00:25:52	R1802055-002 10X	Zn (213.857 nm)	0.0170 (ppm)	0.71	0.0170 (ppm)	452.4632
3/16/2018 00:29:11	R1802055-001	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-93.2366
3/16/2018 00:29:11	R1802055-001	Al (394.401 nm)	1.0875 (ppm)	0.16	1.0875 (ppm)	11601.9609
3/16/2018 00:29:11	R1802055-001	As (188.980 nm)	0.1838 (ppm)	1.12	0.1838 (ppm)	155.5821
3/16/2018 00:29:11	R1802055-001	B (249.772 nm)	14.9151 o (ppm)	0.30	14.9151 (ppm)	398865.4788
3/16/2018 00:29:11	R1802055-001	Ba (230.424 nm)	1.3920 (ppm)	0.10	1.3920 (ppm)	40532.4339
3/16/2018 00:29:11	R1802055-001	Be (313.107 nm)	0.0000 (ppm)	47.44	0.0000 (ppm)	-599.1958
3/16/2018 00:29:11	R1802055-001	Ca (227.547 nm)	134.7120 o (ppm)	0.32	134.7120 (ppm)	6362.2003
3/16/2018 00:29:11	R1802055-001	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.3203
3/16/2018 00:29:11	R1802055-001	Co (230.786 nm)	0.0269 (ppm)	0.88	0.0269 (ppm)	244.8265
3/16/2018 00:29:11	R1802055-001	Cr (267.716 nm)	0.2339 (ppm)	0.09	0.2339 (ppm)	10005.5383
3/16/2018 00:29:11	R1802055-001	Cu (327.395 nm)	0.0104 (ppm)	2.14	0.0104 (ppm)	532.3310
3/16/2018 00:29:11	R1802055-001	Fe (234.350 nm)	5.5004 (ppm)	0.13	5.5004 (ppm)	53835.7463
3/16/2018 00:29:11	R1802055-001	K (766.491 nm)	892.7114 o (ppm)	0.74	892.7114 (ppm)	2134546.1304
3/16/2018 00:29:11	R1802055-001	Mg (279.078 nm)	144.5295 o (ppm)	0.14	144.5295 (ppm)	266306.9746
3/16/2018 00:29:11	R1802055-001	Mn (257.610 nm)	0.1951 (ppm)	0.05	0.1951 (ppm)	53539.0482
3/16/2018 00:29:11	R1802055-001	Mo (202.032 nm)	0.0105 (ppm)	0.88	0.0105 (ppm)	98.3533
3/16/2018 00:29:11	R1802055-001	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/16/2018 00:29:11	R1802055-001	Ni (230.299 nm)	0.1221 (ppm)	1.60	0.1221 (ppm)	744.6632
3/16/2018 00:29:11	R1802055-001	Pb (220.353 nm)	-0.0012 u (ppm)	24.63	-0.0012 (ppm)	3.5623

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:29:11	R1802055-001	Sb (217.582 nm)	0.0075 (ppm)	29.95	0.0075 (ppm)	9.3466
3/16/2018 00:29:11	R1802055-001	Se (196.026 nm)	-0.0149 u (ppm)	15.11	-0.0149 (ppm)	-8.4161
3/16/2018 00:29:11	R1802055-001	Sn (189.925 nm)	0.0210 (ppm)	10.94	0.0210 (ppm)	22.9952
3/16/2018 00:29:11	R1802055-001	Sr (216.596 nm)	1.7620 (ppm)	0.40	1.7620 (ppm)	22766.7336
3/16/2018 00:29:11	R1802055-001	Ti (336.122 nm)	0.2298 (ppm)	0.23	0.2298 (ppm)	38940.2765
3/16/2018 00:29:11	R1802055-001	Tl (351.923 nm)	-0.0063 u (ppm)	72.76	-0.0063 (ppm)	11.1237
3/16/2018 00:29:11	R1802055-001	V (292.401 nm)	0.0521 (ppm)	0.71	0.0521 (ppm)	1732.6872
3/16/2018 00:29:11	R1802055-001	Y (360.074 nm)	0.84 (Ratio)	0.62	0.84 (Ratio)	627012.93
3/16/2018 00:29:11	R1802055-001	Y_R (360.074 nm)	0.84 (Ratio)	0.62	0.84 (Ratio)	627622.69
3/16/2018 00:29:11	R1802055-001	Zn (213.857 nm)	0.0566 (ppm)	0.07	0.0566 (ppm)	1566.8840
3/16/2018 00:32:29	R1802055-002	Ag (328.068 nm)	0.0007 (ppm)	21.12	0.0007 (ppm)	-55.7594
3/16/2018 00:32:29	R1802055-002	Al (394.401 nm)	1.9530 (ppm)	0.28	1.9530 (ppm)	20746.4827
3/16/2018 00:32:29	R1802055-002	As (188.980 nm)	0.5257 (ppm)	0.51	0.5257 (ppm)	453.0020
3/16/2018 00:32:29	R1802055-002	B (249.772 nm)	38.1631 o (ppm)	0.37	38.1631 (ppm)	1020456.7530
3/16/2018 00:32:29	R1802055-002	Ba (230.424 nm)	1.2787 (ppm)	0.48	1.2787 (ppm)	37234.8911
3/16/2018 00:32:29	R1802055-002	Be (313.107 nm)	0.0000 (ppm)	14.65	0.0000 (ppm)	-541.0498
3/16/2018 00:32:29	R1802055-002	Ca (227.547 nm)	387.1240 o (ppm)	0.45	387.1240 (ppm)	18271.4167
3/16/2018 00:32:29	R1802055-002	Cd (214.439 nm)	0.0002 (ppm)	86.41	0.0002 (ppm)	22.2159
3/16/2018 00:32:29	R1802055-002	Co (230.786 nm)	0.0693 (ppm)	1.71	0.0693 (ppm)	636.8055
3/16/2018 00:32:29	R1802055-002	Cr (267.716 nm)	0.6485 (ppm)	0.34	0.6485 (ppm)	27743.2765
3/16/2018 00:32:29	R1802055-002	Cu (327.395 nm)	0.0254 (ppm)	1.54	0.0254 (ppm)	1287.5529
3/16/2018 00:32:29	R1802055-002	Fe (234.350 nm)	11.4766 o (ppm)	0.33	11.4766 (ppm)	112307.1946
3/16/2018 00:32:29	R1802055-002	K (766.491 nm)	2536.2621 o (ppm)	0.42	2536.2621 (ppm)	6064418.6262
3/16/2018 00:32:29	R1802055-002	Mg (279.078 nm)	384.5108 o (ppm)	0.46	384.5108 (ppm)	708500.2627
3/16/2018 00:32:29	R1802055-002	Mn (257.610 nm)	0.4643 (ppm)	0.59	0.4643 (ppm)	127375.8238
3/16/2018 00:32:29	R1802055-002	Mo (202.032 nm)	0.0229 (ppm)	3.19	0.0229 (ppm)	208.5459
3/16/2018 00:32:29	R1802055-002	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
3/16/2018 00:32:29	R1802055-002	Ni (230.299 nm)	0.3209 (ppm)	0.57	0.3209 (ppm)	1994.8267
3/16/2018 00:32:29	R1802055-002	Pb (220.353 nm)	0.0022 (ppm)	7.61	0.0022 (ppm)	10.6362
3/16/2018 00:32:29	R1802055-002	Sb (217.582 nm)	0.0278 (ppm)	13.10	0.0278 (ppm)	35.2858
3/16/2018 00:32:29	R1802055-002	Se (196.026 nm)	-0.0378 u (ppm)	17.63	-0.0378 (ppm)	-25.7870
3/16/2018 00:32:29	R1802055-002	Sn (189.925 nm)	0.0507 (ppm)	2.28	0.0507 (ppm)	56.6528
3/16/2018 00:32:29	R1802055-002	Sr (216.596 nm)	4.3058 (ppm)	0.88	4.3058 (ppm)	55640.0875
3/16/2018 00:32:29	R1802055-002	Ti (336.122 nm)	0.6668 (ppm)	0.71	0.6668 (ppm)	114211.9413
3/16/2018 00:32:29	R1802055-002	Tl (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	26.1715
3/16/2018 00:32:29	R1802055-002	V (292.401 nm)	0.1468 (ppm)	0.43	0.1468 (ppm)	4634.8082
3/16/2018 00:32:29	R1802055-002	Y (360.074 nm)	0.70 (Ratio)	1.05	0.70 (Ratio)	519601.96
3/16/2018 00:32:29	R1802055-002	Y_R (360.074 nm)	0.70 (Ratio)	1.05	0.70 (Ratio)	520224.65
3/16/2018 00:32:29	R1802055-002	Zn (213.857 nm)	0.1297 (ppm)	0.65	0.1297 (ppm)	3626.9833
3/16/2018 00:35:47	R1802137-002	Ag (328.068 nm)	-0.0004 u (ppm)	51.01	-0.0004 (ppm)	-118.9049
3/16/2018 00:35:47	R1802137-002	Al (394.401 nm)	0.0498 (ppm)	1.76	0.0498 (ppm)	638.3017
3/16/2018 00:35:47	R1802137-002	As (188.980 nm)	0.0055 (ppm)	29.27	0.0055 (ppm)	0.4323
3/16/2018 00:35:47	R1802137-002	B (249.772 nm)	0.1618 (ppm)	1.31	0.1618 (ppm)	4402.2787
3/16/2018 00:35:47	R1802137-002	Ba (230.424 nm)	0.1379 (ppm)	0.24	0.1379 (ppm)	4022.0540
3/16/2018 00:35:47	R1802137-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-574.8331
3/16/2018 00:35:47	R1802137-002	Ca (227.547 nm)	149.2216 o (ppm)	0.12	149.2216 (ppm)	7046.7877
3/16/2018 00:35:47	R1802137-002	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.8612
3/16/2018 00:35:47	R1802137-002	Co (230.786 nm)	-0.0005 u (ppm)	44.66	-0.0005 (ppm)	-8.2153
3/16/2018 00:35:47	R1802137-002	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-10.0273
3/16/2018 00:35:47	R1802137-002	Cu (327.395 nm)	0.0005 (ppm)	19.29	0.0005 (ppm)	35.8520
3/16/2018 00:35:47	R1802137-002	Fe (234.350 nm)	6.7769 (ppm)	0.18	6.7769 (ppm)	66324.5902

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:35:47	R1802137-002	K (766.491 nm)	16.3613 (ppm)	1.38	16.3613 (ppm)	39116.7453
3/16/2018 00:35:47	R1802137-002	Mg (279.078 nm)	36.6460 (ppm)	0.09	36.6460 (ppm)	67519.0153
3/16/2018 00:35:47	R1802137-002	Mn (257.610 nm)	0.4901 (ppm)	0.13	0.4901 (ppm)	134449.7868
3/16/2018 00:35:47	R1802137-002	Mo (202.032 nm)	0.0036 (ppm)	4.48	0.0036 (ppm)	37.1836
3/16/2018 00:35:47	R1802137-002	Na (588.995 nm)	363.4526 (ppm)	0.11	363.4526 (ppm)	12667049.2724
3/16/2018 00:35:47	R1802137-002	Ni (230.299 nm)	-0.0055 (ppm)	21.27	-0.0055 (ppm)	-57.3245
3/16/2018 00:35:47	R1802137-002	Pb (220.353 nm)	-0.0022 (ppm)	36.65	-0.0022 (ppm)	1.7073
3/16/2018 00:35:47	R1802137-002	Sb (217.582 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	1.6462
3/16/2018 00:35:47	R1802137-002	Se (196.026 nm)	-0.0029 (ppm)	56.83	-0.0029 (ppm)	0.6277
3/16/2018 00:35:47	R1802137-002	Sn (189.925 nm)	-0.0012 (ppm)	> 100.00	-0.0012 (ppm)	-2.1437
3/16/2018 00:35:47	R1802137-002	Sr (216.596 nm)	0.4480 (ppm)	0.17	0.4480 (ppm)	5785.8960
3/16/2018 00:35:47	R1802137-002	Ti (336.122 nm)	0.0027 (ppm)	6.26	0.0027 (ppm)	-181.7639
3/16/2018 00:35:47	R1802137-002	Tl (351.923 nm)	-0.0008 (ppm)	> 100.00	-0.0008 (ppm)	23.1527
3/16/2018 00:35:47	R1802137-002	V (292.401 nm)	0.0005 (ppm)	48.97	0.0005 (ppm)	148.4837
3/16/2018 00:35:47	R1802137-002	Y (360.074 nm)	0.97 (Ratio)	0.79	0.97 (Ratio)	720887.66
3/16/2018 00:35:47	R1802137-002	Y_R (360.074 nm)	0.97 (Ratio)	0.79	0.97 (Ratio)	721525.15
3/16/2018 00:35:47	R1802137-002	Zn (213.857 nm)	0.0094 (ppm)	0.50	0.0094 (ppm)	236.6603
3/16/2018 00:39:07	R1802137-002S	Ag (328.068 nm)	0.0510 (ppm)	0.35	0.0510 (ppm)	3041.7906
3/16/2018 00:39:07	R1802137-002S	Al (394.401 nm)	2.2024 (ppm)	0.31	2.2024 (ppm)	23381.7829
3/16/2018 00:39:07	R1802137-002S	As (188.980 nm)	0.0405 (ppm)	9.98	0.0405 (ppm)	30.9412
3/16/2018 00:39:07	R1802137-002S	B (249.772 nm)	1.1408 (ppm)	0.16	1.1408 (ppm)	30577.2558
3/16/2018 00:39:07	R1802137-002S	Ba (230.424 nm)	2.1112 (ppm)	0.09	2.1112 (ppm)	61470.3699
3/16/2018 00:39:07	R1802137-002S	Be (313.107 nm)	0.0482 (ppm)	0.08	0.0482 (ppm)	62972.3072
3/16/2018 00:39:07	R1802137-002S	Ca (227.547 nm)	149.8621 (ppm)	0.20	149.8621 (ppm)	7077.0057
3/16/2018 00:39:07	R1802137-002S	Cd (214.439 nm)	0.0480 (ppm)	0.50	0.0480 (ppm)	1009.9545
3/16/2018 00:39:07	R1802137-002S	Co (230.786 nm)	0.4916 (ppm)	0.03	0.4916 (ppm)	4541.6636
3/16/2018 00:39:07	R1802137-002S	Cr (267.716 nm)	0.1971 (ppm)	0.18	0.1971 (ppm)	8429.8296
3/16/2018 00:39:07	R1802137-002S	Cu (327.395 nm)	0.2564 (ppm)	0.57	0.2564 (ppm)	12926.9556
3/16/2018 00:39:07	R1802137-002S	Fe (234.350 nm)	7.6283 (ppm)	0.14	7.6283 (ppm)	74655.4171
3/16/2018 00:39:07	R1802137-002S	K (766.491 nm)	37.1080 (ppm)	0.26	37.1080 (ppm)	86724.0737
3/16/2018 00:39:07	R1802137-002S	Mg (279.078 nm)	38.0865 (ppm)	0.15	38.0865 (ppm)	70173.2883
3/16/2018 00:39:07	R1802137-002S	Mn (257.610 nm)	0.9724 (ppm)	0.08	0.9724 (ppm)	266747.2388
3/16/2018 00:39:07	R1802137-002S	Mo (202.032 nm)	0.4894 (ppm)	0.11	0.4894 (ppm)	4358.2861
3/16/2018 00:39:07	R1802137-002S	Na (588.995 nm)	375.7343 (ppm)	0.15	375.7343 (ppm)	13095378.6397
3/16/2018 00:39:07	R1802137-002S	Ni (230.299 nm)	0.4757 (ppm)	0.20	0.4757 (ppm)	2968.3848
3/16/2018 00:39:07	R1802137-002S	Pb (220.353 nm)	0.4883 (ppm)	0.25	0.4883 (ppm)	997.7819
3/16/2018 00:39:07	R1802137-002S	Sb (217.582 nm)	0.4901 (ppm)	0.97	0.4901 (ppm)	625.1912
3/16/2018 00:39:07	R1802137-002S	Se (196.026 nm)	1.0732 (ppm)	0.18	1.0732 (ppm)	814.9612
3/16/2018 00:39:07	R1802137-002S	Sn (189.925 nm)	4.9619 (ppm)	0.10	4.9619 (ppm)	5616.3402
3/16/2018 00:39:07	R1802137-002S	Sr (216.596 nm)	2.3789 (ppm)	0.12	2.3789 (ppm)	30739.0524
3/16/2018 00:39:07	R1802137-002S	Ti (336.122 nm)	0.4844 (ppm)	0.07	0.4844 (ppm)	82795.0679
3/16/2018 00:39:07	R1802137-002S	Tl (351.923 nm)	2.1069 (ppm)	0.28	2.1069 (ppm)	4619.5587
3/16/2018 00:39:07	R1802137-002S	V (292.401 nm)	0.4892 (ppm)	0.03	0.4892 (ppm)	15137.5034
3/16/2018 00:39:07	R1802137-002S	Y (360.074 nm)	0.96 (Ratio)	0.52	0.96 (Ratio)	715723.26
3/16/2018 00:39:07	R1802137-002S	Y_R (360.074 nm)	0.96 (Ratio)	0.52	0.96 (Ratio)	716425.84
3/16/2018 00:39:07	R1802137-002S	Zn (213.857 nm)	0.4853 (ppm)	0.12	0.4853 (ppm)	13639.8458
3/16/2018 00:42:25	R1802137-002SD	Ag (328.068 nm)	0.0517 (ppm)	0.61	0.0517 (ppm)	3087.9447
3/16/2018 00:42:25	R1802137-002SD	Al (394.401 nm)	2.2384 (ppm)	0.37	2.2384 (ppm)	23762.2667
3/16/2018 00:42:25	R1802137-002SD	As (188.980 nm)	0.0464 (ppm)	25.39	0.0464 (ppm)	36.0419
3/16/2018 00:42:25	R1802137-002SD	B (249.772 nm)	1.1555 (ppm)	0.46	1.1555 (ppm)	30970.0620
3/16/2018 00:42:25	R1802137-002SD	Ba (230.424 nm)	2.1485 (ppm)	0.59	2.1485 (ppm)	62558.4731

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:42:25	R1802137-002SD	Be (313.107 nm)	0.0490 (ppm)	0.41	0.0490 (ppm)	64017.8725
3/16/2018 00:42:25	R1802137-002SD	Ca (227.547 nm)	152.7827 o (ppm)	0.38	152.7827 (ppm)	7214.8044
3/16/2018 00:42:25	R1802137-002SD	Cd (214.439 nm)	0.0490 (ppm)	0.37	0.0490 (ppm)	1031.1487
3/16/2018 00:42:25	R1802137-002SD	Co (230.786 nm)	0.5008 (ppm)	0.37	0.5008 (ppm)	4627.1981
3/16/2018 00:42:25	R1802137-002SD	Cr (267.716 nm)	0.2003 (ppm)	0.44	0.2003 (ppm)	8564.6435
3/16/2018 00:42:25	R1802137-002SD	Cu (327.395 nm)	0.2601 (ppm)	0.61	0.2601 (ppm)	13111.7988
3/16/2018 00:42:25	R1802137-002SD	Fe (234.350 nm)	7.7842 (ppm)	0.43	7.7842 (ppm)	76180.5049
3/16/2018 00:42:25	R1802137-002SD	K (766.491 nm)	37.7047 (ppm)	0.29	37.7047 (ppm)	90150.6677
3/16/2018 00:42:25	R1802137-002SD	Mg (279.078 nm)	38.8609 (ppm)	0.36	38.8609 (ppm)	71600.1871
3/16/2018 00:42:25	R1802137-002SD	Mn (257.610 nm)	0.9909 (ppm)	0.40	0.9909 (ppm)	271812.9148
3/16/2018 00:42:25	R1802137-002SD	Mo (202.032 nm)	0.4981 (ppm)	0.37	0.4981 (ppm)	4435.0946
3/16/2018 00:42:25	R1802137-002SD	Na (588.995 nm)	382.9819 o (ppm)	0.18	382.9819 (ppm)	13348140.5329
3/16/2018 00:42:25	R1802137-002SD	Ni (230.299 nm)	0.4840 (ppm)	0.64	0.4840 (ppm)	3020.5809
3/16/2018 00:42:25	R1802137-002SD	Pb (220.353 nm)	0.4968 (ppm)	0.61	0.4968 (ppm)	1015.1118
3/16/2018 00:42:25	R1802137-002SD	Sb (217.582 nm)	0.4984 (ppm)	1.16	0.4984 (ppm)	635.7468
3/16/2018 00:42:25	R1802137-002SD	Se (196.026 nm)	1.0830 (ppm)	0.51	1.0830 (ppm)	822.4031
3/16/2018 00:42:25	R1802137-002SD	Sn (189.925 nm)	5.0474 (ppm)	0.54	5.0474 (ppm)	5713.1247
3/16/2018 00:42:25	R1802137-002SD	Sr (216.596 nm)	2.4260 (ppm)	0.61	2.4260 (ppm)	31347.6899
3/16/2018 00:42:25	R1802137-002SD	Ti (336.122 nm)	0.4916 (ppm)	0.39	0.4916 (ppm)	84022.8847
3/16/2018 00:42:25	R1802137-002SD	Ti (351.923 nm)	2.1406 (ppm)	0.22	2.1406 (ppm)	4693.1090
3/16/2018 00:42:25	R1802137-002SD	V (292.401 nm)	0.4976 (ppm)	0.36	0.4976 (ppm)	15392.6459
3/16/2018 00:42:25	R1802137-002SD	Y (360.074 nm)	0.95 (Ratio)	0.20	0.95 (Ratio)	709991.76
3/16/2018 00:42:25	R1802137-002SD	Y_R (360.074 nm)	0.96 (Ratio)	0.20	0.96 (Ratio)	710689.00
3/16/2018 00:42:25	R1802137-002SD	Zn (213.857 nm)	0.4952 (ppm)	0.21	0.4952 (ppm)	13920.6068
3/16/2018 00:45:45	R1802137-002A	Ag (328.068 nm)	0.0519 (ppm)	0.75	0.0519 (ppm)	3100.2056
3/16/2018 00:45:45	R1802137-002A	Al (394.401 nm)	2.1829 (ppm)	0.87	2.1829 (ppm)	23176.1448
3/16/2018 00:45:45	R1802137-002A	As (188.980 nm)	0.0450 (ppm)	4.46	0.0450 (ppm)	34.8228
3/16/2018 00:45:45	R1802137-002A	B (249.772 nm)	1.1286 (ppm)	0.84	1.1286 (ppm)	30252.4161
3/16/2018 00:45:45	R1802137-002A	Be (230.424 nm)	2.0917 (ppm)	0.65	2.0917 (ppm)	60902.4709
3/16/2018 00:45:45	R1802137-002A	Be (313.107 nm)	0.0477 (ppm)	0.66	0.0477 (ppm)	62270.0508
3/16/2018 00:45:45	R1802137-002A	Ca (227.547 nm)	148.0606 o (ppm)	0.83	148.0606 (ppm)	6992.0071
3/16/2018 00:45:45	R1802137-002A	Cd (214.439 nm)	0.0480 (ppm)	0.64	0.0480 (ppm)	1009.2306
3/16/2018 00:45:45	R1802137-002A	Co (230.786 nm)	0.4870 (ppm)	0.80	0.4870 (ppm)	4499.5984
3/16/2018 00:45:45	R1802137-002A	Cr (267.716 nm)	0.1953 (ppm)	0.74	0.1953 (ppm)	8352.1123
3/16/2018 00:45:45	R1802137-002A	Cu (327.395 nm)	0.2515 (ppm)	0.74	0.2515 (ppm)	12678.3117
3/16/2018 00:45:45	R1802137-002A	Fe (234.350 nm)	7.5392 (ppm)	0.75	7.5392 (ppm)	73783.1399
3/16/2018 00:45:45	R1802137-002A	K (766.491 nm)	36.6463 (ppm)	1.01	36.6463 (ppm)	87619.9686
3/16/2018 00:45:45	R1802137-002A	Mg (279.078 nm)	37.8143 (ppm)	0.73	37.8143 (ppm)	69671.7165
3/16/2018 00:45:45	R1802137-002A	Mn (257.610 nm)	0.9630 (ppm)	0.71	0.9630 (ppm)	264171.4603
3/16/2018 00:45:45	R1802137-002A	Mo (202.032 nm)	0.4888 (ppm)	0.67	0.4888 (ppm)	4352.5196
3/16/2018 00:45:45	R1802137-002A	Na (588.995 nm)	375.9349 o (ppm)	0.89	375.9349 (ppm)	13102374.0604
3/16/2018 00:45:45	R1802137-002A	Ni (230.299 nm)	0.4711 (ppm)	0.61	0.4711 (ppm)	2939.4484
3/16/2018 00:45:45	R1802137-002A	Pb (220.353 nm)	0.4867 (ppm)	1.05	0.4867 (ppm)	994.6124
3/16/2018 00:45:45	R1802137-002A	Sb (217.582 nm)	0.5182 (ppm)	0.84	0.5182 (ppm)	660.9993
3/16/2018 00:45:45	R1802137-002A	Se (196.026 nm)	1.0872 (ppm)	1.09	1.0872 (ppm)	825.5561
3/16/2018 00:45:45	R1802137-002A	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.8489
3/16/2018 00:45:45	R1802137-002A	Sr (216.596 nm)	0.4397 (ppm)	0.50	0.4397 (ppm)	5679.1265
3/16/2018 00:45:45	R1802137-002A	Ti (336.122 nm)	0.4851 (ppm)	0.74	0.4851 (ppm)	82918.7683
3/16/2018 00:45:45	R1802137-002A	Ti (351.923 nm)	2.0775 (ppm)	0.79	2.0775 (ppm)	4555.3690
3/16/2018 00:45:45	R1802137-002A	V (292.401 nm)	0.4844 (ppm)	0.79	0.4844 (ppm)	14989.6119
3/16/2018 00:45:45	R1802137-002A	Y (360.074 nm)	0.96 (Ratio)	1.05	0.96 (Ratio)	713282.89

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:45:45	R1802137-002A	Y_R (360.074 nm)	0.96 (Ratio)	1.05	0.96 (Ratio)	714007.33
3/16/2018 00:45:45	R1802137-002A	Zn (213.857 nm)	0.4841 (ppm)	0.87	0.4841 (ppm)	13605.7121
3/16/2018 00:49:03	Continuing Calibration Verification 1	Ag (328.068 nm)	0.4746 (ppm)	0.38	0.4746 (ppm)	29135.7653
3/16/2018 00:49:03	Continuing Calibration Verification 1	Al (394.401 nm)	9.4054 (ppm)	0.44	9.4054 (ppm)	99485.1594
3/16/2018 00:49:03	Continuing Calibration Verification 1	As (188.980 nm)	0.9921 (ppm)	0.75	0.9921 (ppm)	858.6378
3/16/2018 00:49:03	Continuing Calibration Verification 1	B (249.772 nm)	2.3886 (ppm)	0.33	2.3886 (ppm)	63940.4875
3/16/2018 00:49:03	Continuing Calibration Verification 1	Ba (230.424 nm)	10.1041 (ppm)	0.25	10.1041 (ppm)	294173.9525
3/16/2018 00:49:03	Continuing Calibration Verification 1	Be (313.107 nm)	0.2459 (ppm)	0.52	0.2459 (ppm)	323386.3978
3/16/2018 00:49:03	Continuing Calibration Verification 1	Ca (227.547 nm)	23.5972 (ppm)	0.49	23.5972 (ppm)	1119.6185
3/16/2018 00:49:03	Continuing Calibration Verification 1	Cd (214.439 nm)	0.4999 (ppm)	0.42	0.4999 (ppm)	10351.8678
3/16/2018 00:49:03	Continuing Calibration Verification 1	Co (230.786 nm)	2.5233 (ppm)	0.35	2.5233 (ppm)	23327.8335
3/16/2018 00:49:03	Continuing Calibration Verification 1	Cr (267.716 nm)	0.5107 (ppm)	0.47	0.5107 (ppm)	21846.4441
3/16/2018 00:49:03	Continuing Calibration Verification 1	Cu (327.395 nm)	1.1807 (ppm)	0.49	1.1807 (ppm)	59501.3939
3/16/2018 00:49:03	Continuing Calibration Verification 1	Fe (234.350 nm)	4.9223 (ppm)	0.34	4.9223 (ppm)	48178.9932
3/16/2018 00:49:03	Continuing Calibration Verification 1	K (766.491 nm)	24.2017 (ppm)	0.47	24.2017 (ppm)	57863.8512
3/16/2018 00:49:03	Continuing Calibration Verification 1	Mg (279.078 nm)	24.5323 (ppm)	0.41	24.5323 (ppm)	45198.1037
3/16/2018 00:49:03	Continuing Calibration Verification 1	Mn (257.610 nm)	0.7536 (ppm)	0.33	0.7536 (ppm)	206737.7263
3/16/2018 00:49:03	Continuing Calibration Verification 1	Mo (202.032 nm)	2.4550 (ppm)	0.34	2.4550 (ppm)	21840.4795
3/16/2018 00:49:03	Continuing Calibration Verification 1	Na (588.995 nm)	24.6942 (ppm)	0.58	24.6942 (ppm)	852743.6039
3/16/2018 00:49:03	Continuing Calibration Verification 1	Ni (230.299 nm)	2.0353 (ppm)	0.23	2.0353 (ppm)	12776.4407
3/16/2018 00:49:03	Continuing Calibration Verification 1	Pb (220.353 nm)	0.4997 (ppm)	0.85	0.4997 (ppm)	1020.9052
3/16/2018 00:49:03	Continuing Calibration Verification 1	Sb (217.582 nm)	5.0313 (ppm)	0.43	5.0313 (ppm)	6419.7430
3/16/2018 00:49:03	Continuing Calibration Verification 1	Se (196.026 nm)	0.4868 (ppm)	0.69	0.4868 (ppm)	371.2059
3/16/2018 00:49:03	Continuing Calibration Verification 1	Sn (189.925 nm)	5.0578 (ppm)	0.54	5.0578 (ppm)	5724.9421
3/16/2018 00:49:03	Continuing Calibration Verification 1	Sr (216.596 nm)	2.4971 (ppm)	0.38	2.4971 (ppm)	32266.1675
3/16/2018 00:49:03	Continuing Calibration Verification 1	Ti (336.122 nm)	2.4288 (ppm)	0.39	2.4288 (ppm)	417687.7315
3/16/2018 00:49:03	Continuing Calibration Verification 1	Tl (351.923 nm)	0.9986 (ppm)	0.65	0.9986 (ppm)	2202.5587
3/16/2018 00:49:03	Continuing Calibration Verification 1	V (292.401 nm)	2.4719 (ppm)	0.40	2.4719 (ppm)	75942.2870
3/16/2018 00:49:03	Continuing Calibration Verification 1	Y (360.074 nm)	1.01 (Ratio)	0.89	1.01 (Ratio)	747722.99
3/16/2018 00:49:03	Continuing Calibration Verification 1	Y_R (360.074 nm)	1.01 (Ratio)	0.89	1.01 (Ratio)	748394.50
3/16/2018 00:49:03	Continuing Calibration Verification 1	Zn (213.857 nm)	0.9601 (ppm)	0.39	0.9601 (ppm)	27011.0501
3/16/2018 00:52:22	Continuing Calibration Blank1	Ag (328.068 nm)	-0.0002 u (ppm)	95.16	-0.0002 (ppm)	-108.6203
3/16/2018 00:52:22	Continuing Calibration Blank1	Al (394.401 nm)	0.0028 (ppm)	27.08	0.0028 (ppm)	141.6337
3/16/2018 00:52:22	Continuing Calibration Blank1	As (188.980 nm)	0.0022 (ppm)	29.78	0.0022 (ppm)	-2.3903
3/16/2018 00:52:22	Continuing Calibration Blank1	B (249.772 nm)	0.0045 (ppm)	7.07	0.0045 (ppm)	197.1629
3/16/2018 00:52:22	Continuing Calibration Blank1	Ba (230.424 nm)	0.0040 (ppm)	7.05	0.0040 (ppm)	123.4392
3/16/2018 00:52:22	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	3.28	0.0001 (ppm)	-437.8851
3/16/2018 00:52:22	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	6.2553
3/16/2018 00:52:22	Continuing Calibration Blank1	Cd (214.439 nm)	0.0003 (ppm)	27.97	0.0003 (ppm)	23.0844
3/16/2018 00:52:22	Continuing Calibration Blank1	Co (230.786 nm)	0.0005 (ppm)	14.23	0.0005 (ppm)	0.9680
3/16/2018 00:52:22	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002 (ppm)	28.60	0.0002 (ppm)	5.9500
3/16/2018 00:52:22	Continuing Calibration Blank1	Cu (327.395 nm)	0.0005 (ppm)	10.80	0.0005 (ppm)	32.4356
3/16/2018 00:52:22	Continuing Calibration Blank1	Fe (234.350 nm)	0.0028 (ppm)	18.11	0.0028 (ppm)	45.2755
3/16/2018 00:52:22	Continuing Calibration Blank1	K (766.491 nm)	0.0421 (ppm)	8.73	0.0421 (ppm)	96.2304
3/16/2018 00:52:22	Continuing Calibration Blank1	Mg (279.078 nm)	0.0097 (ppm)	27.89	0.0097 (ppm)	12.4249
3/16/2018 00:52:22	Continuing Calibration Blank1	Mn (257.610 nm)	0.0003 (ppm)	6.83	0.0003 (ppm)	101.9818
3/16/2018 00:52:22	Continuing Calibration Blank1	Mo (202.032 nm)	0.0028 (ppm)	5.28	0.0028 (ppm)	30.2274
3/16/2018 00:52:22	Continuing Calibration Blank1	Na (588.995 nm)	0.0371 (ppm)	6.89	0.0371 (ppm)	-7178.6999
3/16/2018 00:52:22	Continuing Calibration Blank1	Ni (230.299 nm)	0.0011 (ppm)	36.93	0.0011 (ppm)	-16.3076
3/16/2018 00:52:22	Continuing Calibration Blank1	Pb (220.353 nm)	0.0012 (ppm)	> 100.00	0.0012 (ppm)	8.4802
3/16/2018 00:52:22	Continuing Calibration Blank1	Sb (217.582 nm)	0.0049 (ppm)	66.27	0.0049 (ppm)	6.1261



Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:52:22	Continuing Calibration Blank1	Se (196.026 nm)	0.0051 (ppm)	87.12	0.0051 (ppm)	6.7082
3/16/2018 00:52:22	Continuing Calibration Blank1	Sn (189.925 nm)	0.0035 (ppm)	24.67	0.0035 (ppm)	3.2156
3/16/2018 00:52:22	Continuing Calibration Blank1	Sr (216.596 nm)	0.0009 (ppm)	16.61	0.0009 (ppm)	8.6078
3/16/2018 00:52:22	Continuing Calibration Blank1	Ti (336.122 nm)	0.0016 (ppm)	5.09	0.0016 (ppm)	-366.0899
3/16/2018 00:52:22	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0013 u (ppm)	68.31	-0.0013 (ppm)	22.0181
3/16/2018 00:52:22	Continuing Calibration Blank1	V (292.401 nm)	0.0009 (ppm)	12.54	0.0009 (ppm)	162.2471
3/16/2018 00:52:22	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.73	1.03 (Ratio)	765201.30
3/16/2018 00:52:22	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.73	1.03 (Ratio)	765782.66
3/16/2018 00:52:22	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	21.58	0.0003 (ppm)	-19.7312
3/16/2018 00:55:43	R1802137-002L	Ag (328.068 nm)	-0.0003 u (ppm)	38.13	-0.0003 (ppm)	-115.8827
3/16/2018 00:55:43	R1802137-002L	Al (394.401 nm)	0.0174 (ppm)	1.20	0.0174 (ppm)	295.7685
3/16/2018 00:55:43	R1802137-002L	As (188.980 nm)	0.0049 (ppm)	36.14	0.0049 (ppm)	-0.0935
3/16/2018 00:55:43	R1802137-002L	B (249.772 nm)	0.0289 (ppm)	0.81	0.0289 (ppm)	847.4427
3/16/2018 00:55:43	R1802137-002L	Ba (230.424 nm)	0.0283 (ppm)	1.25	0.0283 (ppm)	829.0147
3/16/2018 00:55:43	R1802137-002L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-565.2719
3/16/2018 00:55:43	R1802137-002L	Ca (227.547 nm)	27.9373 (ppm)	1.48	27.9373 (ppm)	1324.3896
3/16/2018 00:55:43	R1802137-002L	Cd (214.439 nm)	-0.0004 u (ppm)	7.04	-0.0004 (ppm)	9.2937
3/16/2018 00:55:43	R1802137-002L	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-4.8676
3/16/2018 00:55:43	R1802137-002L	Cr (267.716 nm)	-0.0001 u (ppm)	87.27	0.0001 (ppm)	-8.6047
3/16/2018 00:55:43	R1802137-002L	Cu (327.395 nm)	0.0003 (ppm)	49.86	0.0003 (ppm)	22.9643
3/16/2018 00:55:43	R1802137-002L	Fe (234.350 nm)	1.3856 (ppm)	1.27	1.3856 (ppm)	13575.3366
3/16/2018 00:55:43	R1802137-002L	K (766.491 nm)	2.8467 (ppm)	1.23	2.8467 (ppm)	6802.2116
3/16/2018 00:55:43	R1802137-002L	Mg (279.078 nm)	7.3400 (ppm)	1.23	7.3400 (ppm)	13519.2921
3/16/2018 00:55:43	R1802137-002L	Mn (257.610 nm)	0.1012 (ppm)	1.24	0.1012 (ppm)	27772.5554
3/16/2018 00:55:43	R1802137-002L	Mo (202.032 nm)	0.0011 (ppm)	10.46	0.0011 (ppm)	14.5271
3/16/2018 00:55:43	R1802137-002L	Na (588.995 nm)	80.1198 o (ppm)	1.35	80.1198 (ppm)	2785730.9833
3/16/2018 00:55:43	R1802137-002L	Ni (230.299 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-19.3410
3/16/2018 00:55:43	R1802137-002L	Pb (220.353 nm)	-0.0037 u (ppm)	29.59	-0.0037 (ppm)	-1.5012
3/16/2018 00:55:43	R1802137-002L	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	1.3327
3/16/2018 00:55:43	R1802137-002L	Se (196.026 nm)	-0.0049 u (ppm)	70.41	-0.0049 (ppm)	-0.8648
3/16/2018 00:55:43	R1802137-002L	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.7251
3/16/2018 00:55:43	R1802137-002L	Sr (216.596 nm)	0.0932 (ppm)	1.35	0.0932 (ppm)	1201.9988
3/16/2018 00:55:43	R1802137-002L	Ti (336.122 nm)	0.0022 (ppm)	3.59	0.0022 (ppm)	-255.4285
3/16/2018 00:55:43	R1802137-002L	Tl (351.923 nm)	-0.0092 u (ppm)	49.06	-0.0092 (ppm)	4.7587
3/16/2018 00:55:43	R1802137-002L	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	136.6153
3/16/2018 00:55:43	R1802137-002L	Y (360.074 nm)	1.02 (Ratio)	1.45	1.02 (Ratio)	760108.29
3/16/2018 00:55:43	R1802137-002L	Y_R (360.074 nm)	1.02 (Ratio)	1.44	1.02 (Ratio)	760743.50
3/16/2018 00:55:43	R1802137-002L	Zn (213.857 nm)	0.0045 (ppm)	0.99	0.0045 (ppm)	99.6340
3/16/2018 00:59:03	R1802137-008	Ag (328.068 nm)	-0.0003 u (ppm)	39.28	-0.0003 (ppm)	-116.3631
3/16/2018 00:59:03	R1802137-008	Al (394.401 nm)	0.0930 (ppm)	0.49	0.0930 (ppm)	1094.3460
3/16/2018 00:59:03	R1802137-008	As (188.980 nm)	0.0012 (ppm)	77.32	0.0012 (ppm)	-3.3024
3/16/2018 00:59:03	R1802137-008	B (249.772 nm)	0.1215 (ppm)	0.38	0.1215 (ppm)	3323.8587
3/16/2018 00:59:03	R1802137-008	Ba (230.424 nm)	0.0776 (ppm)	0.42	0.0776 (ppm)	2266.2110
3/16/2018 00:59:03	R1802137-008	Be (313.107 nm)	0.0000 (ppm)	65.40	0.0000 (ppm)	-555.1712
3/16/2018 00:59:03	R1802137-008	Ca (227.547 nm)	117.7180 o (ppm)	0.66	117.7180 (ppm)	5560.3928
3/16/2018 00:59:03	R1802137-008	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.4210
3/16/2018 00:59:03	R1802137-008	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.4467
3/16/2018 00:59:03	R1802137-008	Cr (267.716 nm)	-0.0004 u (ppm)	14.39	-0.0004 (ppm)	-22.0208
3/16/2018 00:59:03	R1802137-008	Cu (327.395 nm)	0.0006 (ppm)	7.74	0.0006 (ppm)	36.9851
3/16/2018 00:59:03	R1802137-008	Fe (234.350 nm)	6.2760 (ppm)	0.51	6.2760 (ppm)	61423.5832
3/16/2018 00:59:03	R1802137-008	K (766.491 nm)	10.3987 (ppm)	0.72	10.3987 (ppm)	24859.6541

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 00:59:03	R1802137-008	Mg (279.078 nm)	29.9904 (ppm)	0.49	29.9904 (ppm)	55255.3935
3/16/2018 00:59:03	R1802137-008	Mn (257.610 nm)	0.8502 (ppm)	0.53	0.8502 (ppm)	233222.6486
3/16/2018 00:59:03	R1802137-008	Mo (202.032 nm)	0.0012 (ppm)	5.54	0.0012 (ppm)	16.0905
3/16/2018 00:59:03	R1802137-008	Na (588.995 nm)	166.7156 u (ppm)	0.50	166.7156 (ppm)	5805786.8373
3/16/2018 00:59:03	R1802137-008	Ni (230.299 nm)	-0.0054 u (ppm)	11.29	-0.0054 (ppm)	-56.9378
3/16/2018 00:59:03	R1802137-008	Pb (220.353 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	3.8237
3/16/2018 00:59:03	R1802137-008	Sb (217.582 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	-3.9821
3/16/2018 00:59:03	R1802137-008	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	2.7023
3/16/2018 00:59:03	R1802137-008	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.4501
3/16/2018 00:59:03	R1802137-008	Sr (216.596 nm)	0.3574 (ppm)	0.37	0.3574 (ppm)	4616.0553
3/16/2018 00:59:03	R1802137-008	Ti (336.122 nm)	0.0026 (ppm)	4.34	0.0026 (ppm)	-184.6171
3/16/2018 00:59:03	R1802137-008	Tl (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	22.0446
3/16/2018 00:59:03	R1802137-008	V (292.401 nm)	0.0008 (ppm)	10.86	0.0008 (ppm)	159.2093
3/16/2018 00:59:03	R1802137-008	Y (360.074 nm)	0.99 (Ratio)	0.90	0.99 (Ratio)	732963.50
3/16/2018 00:59:03	R1802137-008	Y_R (360.074 nm)	0.99 (Ratio)	0.90	0.99 (Ratio)	733597.81
3/16/2018 00:59:03	R1802137-008	Zn (213.857 nm)	0.0061 (ppm)	2.09	0.0061 (ppm)	143.7781
3/16/2018 01:02:23	Continuing Calibration Verification1	Ag (328.068 nm)	0.4720 (ppm)	0.43	0.4720 (ppm)	28978.0031
3/16/2018 01:02:23	Continuing Calibration Verification1	Al (394.401 nm)	9.3891 (ppm)	0.05	9.3891 (ppm)	99313.3836
3/16/2018 01:02:23	Continuing Calibration Verification1	As (188.980 nm)	0.9867 (ppm)	0.71	0.9867 (ppm)	853.9864
3/16/2018 01:02:23	Continuing Calibration Verification1	B (249.772 nm)	2.3876 (ppm)	0.38	2.3876 (ppm)	63914.2504
3/16/2018 01:02:23	Continuing Calibration Verification1	Ba (230.424 nm)	10.0779 (ppm)	0.37	10.0779 (ppm)	293412.0419
3/16/2018 01:02:23	Continuing Calibration Verification1	Be (313.107 nm)	0.2468 (ppm)	0.39	0.2468 (ppm)	324507.5059
3/16/2018 01:02:23	Continuing Calibration Verification1	Ca (227.547 nm)	23.4039 (ppm)	0.24	23.4039 (ppm)	1110.4954
3/16/2018 01:02:23	Continuing Calibration Verification1	Cd (214.439 nm)	0.4994 (ppm)	0.44	0.4994 (ppm)	10342.0625
3/16/2018 01:02:23	Continuing Calibration Verification1	Co (230.786 nm)	2.5192 (ppm)	0.36	2.5192 (ppm)	23289.8741
3/16/2018 01:02:23	Continuing Calibration Verification1	Cr (267.716 nm)	0.5103 (ppm)	0.41	0.5103 (ppm)	21831.7228
3/16/2018 01:02:23	Continuing Calibration Verification1	Cu (327.395 nm)	1.1805 (ppm)	0.28	1.1805 (ppm)	59487.7450
3/16/2018 01:02:23	Continuing Calibration Verification1	Fe (234.350 nm)	4.9138 (ppm)	0.33	4.9138 (ppm)	48096.2290
3/16/2018 01:02:23	Continuing Calibration Verification1	K (766.491 nm)	24.1503 (ppm)	0.12	24.1503 (ppm)	57741.0298
3/16/2018 01:02:23	Continuing Calibration Verification1	Mg (279.078 nm)	24.4634 (ppm)	0.42	24.4634 (ppm)	45071.2203
3/16/2018 01:02:23	Continuing Calibration Verification1	Mn (257.610 nm)	0.7512 (ppm)	0.36	0.7512 (ppm)	206070.4929
3/16/2018 01:02:23	Continuing Calibration Verification1	Mo (202.032 nm)	2.4538 (ppm)	0.50	2.4538 (ppm)	21830.1079
3/16/2018 01:02:23	Continuing Calibration Verification1	Na (588.995 nm)	24.6410 (ppm)	0.44	24.6410 (ppm)	850889.4327
3/16/2018 01:02:23	Continuing Calibration Verification1	Ni (230.299 nm)	2.0273 (ppm)	0.45	2.0273 (ppm)	12725.6418
3/16/2018 01:02:23	Continuing Calibration Verification1	Pb (220.353 nm)	0.4978 (ppm)	0.59	0.4978 (ppm)	1017.1364
3/16/2018 01:02:23	Continuing Calibration Verification1	Sb (217.582 nm)	5.0064 (ppm)	0.39	5.0064 (ppm)	6388.0037
3/16/2018 01:02:23	Continuing Calibration Verification1	Se (196.026 nm)	0.4861 (ppm)	0.40	0.4861 (ppm)	370.6499
3/16/2018 01:02:23	Continuing Calibration Verification1	Sn (189.925 nm)	5.0161 (ppm)	0.91	5.0161 (ppm)	5677.7545
3/16/2018 01:02:23	Continuing Calibration Verification1	Sr (216.596 nm)	2.4941 (ppm)	0.34	2.4941 (ppm)	32228.2099
3/16/2018 01:02:23	Continuing Calibration Verification1	Ti (336.122 nm)	2.4207 (ppm)	0.37	2.4207 (ppm)	416280.6057
3/16/2018 01:02:23	Continuing Calibration Verification1	Tl (351.923 nm)	0.9919 (ppm)	0.26	0.9919 (ppm)	2187.8836
3/16/2018 01:02:23	Continuing Calibration Verification1	V (292.401 nm)	2.4651 (ppm)	0.33	2.4651 (ppm)	75732.8459
3/16/2018 01:02:23	Continuing Calibration Verification1	Y (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	750335.80
3/16/2018 01:02:23	Continuing Calibration Verification1	Y_R (360.074 nm)	1.01 (Ratio)	0.43	1.01 (Ratio)	750877.70
3/16/2018 01:02:23	Continuing Calibration Verification1	Zn (213.857 nm)	0.9578 (ppm)	0.45	0.9578 (ppm)	26948.2367
3/16/2018 01:05:41	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-95.9623
3/16/2018 01:05:41	Continuing Calibration Blank1	Al (394.401 nm)	0.0038 (ppm)	14.96	0.0038 (ppm)	152.7955
3/16/2018 01:05:41	Continuing Calibration Blank1	As (188.980 nm)	0.0036 (ppm)	25.14	0.0036 (ppm)	-1.2318
3/16/2018 01:05:41	Continuing Calibration Blank1	B (249.772 nm)	0.0036 (ppm)	15.22	0.0036 (ppm)	171.4125
3/16/2018 01:05:41	Continuing Calibration Blank1	Ba (230.424 nm)	0.0049 (ppm)	7.07	0.0049 (ppm)	148.4145
3/16/2018 01:05:41	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	1.44	0.0001 (ppm)	-392.5513

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 01:05:41	Continuing Calibration Blank 1	Ca (227.547 nm)	-0.0270 u (ppm)	57.34	-0.0270 (ppm)	4.9877
3/16/2018 01:05:41	Continuing Calibration Blank 1	Cd (214.439 nm)	0.0003 (ppm)	22.23	0.0003 (ppm)	23.4952
3/16/2018 01:05:41	Continuing Calibration Blank 1	Co (230.786 nm)	0.0014 (ppm)	4.29	0.0014 (ppm)	9.1937
3/16/2018 01:05:41	Continuing Calibration Blank 1	Cr (267.716 nm)	0.0004 (ppm)	29.26	0.0004 (ppm)	11.5795
3/16/2018 01:05:41	Continuing Calibration Blank 1	Cu (327.395 nm)	0.0007 (ppm)	15.40	0.0007 (ppm)	44.7079
3/16/2018 01:05:41	Continuing Calibration Blank 1	Fe (234.350 nm)	0.0032 (ppm)	11.58	0.0032 (ppm)	49.3666
3/16/2018 01:05:41	Continuing Calibration Blank 1	K (766.491 nm)	0.0476 (ppm)	11.59	0.0476 (ppm)	109.2220
3/16/2018 01:05:41	Continuing Calibration Blank 1	Mg (279.078 nm)	0.0112 (ppm)	7.06	0.0112 (ppm)	15.2607
3/16/2018 01:05:41	Continuing Calibration Blank 1	Mn (257.610 nm)	0.0004 (ppm)	4.21	0.0004 (ppm)	119.1414
3/16/2018 01:05:41	Continuing Calibration Blank 1	Mo (202.032 nm)	0.0035 (ppm)	13.13	0.0035 (ppm)	35.9318
3/16/2018 01:05:41	Continuing Calibration Blank 1	Na (588.995 nm)	0.0325 (ppm)	2.67	0.0325 (ppm)	-7340.3720
3/16/2018 01:05:41	Continuing Calibration Blank 1	Ni (230.299 nm)	0.0014 (ppm)	36.26	0.0014 (ppm)	-14.3776
3/16/2018 01:05:41	Continuing Calibration Blank 1	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	3.6890
3/16/2018 01:05:41	Continuing Calibration Blank 1	Sb (217.582 nm)	0.0043 (ppm)	26.82	0.0043 (ppm)	5.3535
3/16/2018 01:05:41	Continuing Calibration Blank 1	Se (196.026 nm)	0.0034 u (ppm)	> 100.00	0.0034 (ppm)	5.4272
3/16/2018 01:05:41	Continuing Calibration Blank 1	Sn (189.925 nm)	0.0047 (ppm)	25.11	0.0047 (ppm)	4.5991
3/16/2018 01:05:41	Continuing Calibration Blank 1	Sr (216.596 nm)	0.0014 (ppm)	8.60	0.0014 (ppm)	15.0148
3/16/2018 01:05:41	Continuing Calibration Blank 1	Ti (336.122 nm)	0.0019 (ppm)	5.55	0.0019 (ppm)	-314.4889
3/16/2018 01:05:41	Continuing Calibration Blank 1	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	25.4039
3/16/2018 01:05:41	Continuing Calibration Blank 1	V (292.401 nm)	0.0009 (ppm)	13.77	0.0009 (ppm)	162.0618
3/16/2018 01:05:41	Continuing Calibration Blank 1	Y (360.074 nm)	1.03 (Ratio)	0.78	1.03 (Ratio)	767044.50
3/16/2018 01:05:41	Continuing Calibration Blank 1	Y_R (360.074 nm)	1.03 (Ratio)	0.78	1.03 (Ratio)	767515.21
3/16/2018 01:05:41	Continuing Calibration Blank 1	Zn (213.857 nm)	0.0004 (ppm)	25.15	0.0004 (ppm)	-14.8989
3/16/2018 01:09:00	Contract Required Detection Limit	Ag (328.068 nm)	0.0094 (ppm)	2.65	0.0094 (ppm)	479.9135
3/16/2018 01:09:00	Contract Required Detection Limit	Al (394.401 nm)	0.1709 (ppm)	0.53	0.1709 (ppm)	1917.9919
3/16/2018 01:09:00	Contract Required Detection Limit	As (188.980 nm)	0.0225 (ppm)	6.66	0.0225 (ppm)	15.2083
3/16/2018 01:09:00	Contract Required Detection Limit	B (249.772 nm)	0.1947 (ppm)	0.22	0.1947 (ppm)	5281.3299
3/16/2018 01:09:00	Contract Required Detection Limit	Ba (230.424 nm)	0.2050 (ppm)	0.46	0.2050 (ppm)	5973.4067
3/16/2018 01:09:00	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.35	0.0049 (ppm)	5853.9369
3/16/2018 01:09:00	Contract Required Detection Limit	Ca (227.547 nm)	0.9057 (ppm)	3.96	0.9057 (ppm)	48.9956
3/16/2018 01:09:00	Contract Required Detection Limit	Cd (214.439 nm)	0.0099 (ppm)	1.48	0.0099 (ppm)	221.4116
3/16/2018 01:09:00	Contract Required Detection Limit	Co (230.786 nm)	0.0498 (ppm)	0.50	0.0498 (ppm)	457.1063
3/16/2018 01:09:00	Contract Required Detection Limit	Cr (267.716 nm)	0.0101 (ppm)	0.89	0.0101 (ppm)	427.3189
3/16/2018 01:09:00	Contract Required Detection Limit	Cu (327.395 nm)	0.0239 (ppm)	0.44	0.0239 (ppm)	1211.5018
3/16/2018 01:09:00	Contract Required Detection Limit	Fe (234.350 nm)	0.1030 (ppm)	0.70	0.1030 (ppm)	1025.9359
3/16/2018 01:09:00	Contract Required Detection Limit	K (766.491 nm)	0.9440 (ppm)	0.31	0.9440 (ppm)	2252.8044
3/16/2018 01:09:00	Contract Required Detection Limit	Mg (279.078 nm)	0.9843 (ppm)	0.58	0.9843 (ppm)	1808.3261
3/16/2018 01:09:00	Contract Required Detection Limit	Mn (257.610 nm)	0.0151 (ppm)	0.33	0.0151 (ppm)	4165.9866
3/16/2018 01:09:00	Contract Required Detection Limit	Mo (202.032 nm)	0.0250 (ppm)	0.59	0.0250 (ppm)	227.5262
3/16/2018 01:09:00	Contract Required Detection Limit	Na (588.995 nm)	1.0308 (ppm)	0.26	1.0308 (ppm)	27476.2227
3/16/2018 01:09:00	Contract Required Detection Limit	Ni (230.299 nm)	0.0413 (ppm)	1.84	0.0413 (ppm)	236.6395
3/16/2018 01:09:00	Contract Required Detection Limit	Pb (220.353 nm)	0.0086 (ppm)	8.06	0.0086 (ppm)	23.4747
3/16/2018 01:09:00	Contract Required Detection Limit	Sb (217.582 nm)	0.0616 (ppm)	2.13	0.0616 (ppm)	78.3729
3/16/2018 01:09:00	Contract Required Detection Limit	Se (196.026 nm)	0.0114 (ppm)	13.96	0.0114 (ppm)	11.4546
3/16/2018 01:09:00	Contract Required Detection Limit	Sn (189.925 nm)	0.5032 (ppm)	0.42	0.5032 (ppm)	568.8732
3/16/2018 01:09:00	Contract Required Detection Limit	Sr (216.596 nm)	0.0999 (ppm)	0.28	0.0999 (ppm)	1287.8986
3/16/2018 01:09:00	Contract Required Detection Limit	Ti (336.122 nm)	0.0494 (ppm)	0.21	0.0494 (ppm)	7870.9228
3/16/2018 01:09:00	Contract Required Detection Limit	Tl (351.923 nm)	0.0135 R (ppm)	2.97	0.0135 (ppm)	54.3140 R
3/16/2018 01:09:00	Contract Required Detection Limit	V (292.401 nm)	0.0477 (ppm)	0.69	0.0477 (ppm)	1597.9097
3/16/2018 01:09:00	Contract Required Detection Limit	Y (360.074 nm)	1.04 (Ratio)	0.31	1.04 (Ratio)	773272.82
3/16/2018 01:09:00	Contract Required Detection Limit	Y_R (360.074 nm)	1.04 (Ratio)	0.31	1.04 (Ratio)	773736.01

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 01:09:00	Contract Required Detection Limit	Zn (213.857 nm)	0.0193 (ppm)	0.80	0.0193 (ppm)	517.3007
3/16/2018 01:12:19	Interference Check Solution A	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-100.4593
3/16/2018 01:12:19	Interference Check Solution A	Al (394.401 nm)	259.7155 o (ppm)	0.53	259.7155 (ppm)	2744152.3817
3/16/2018 01:12:19	Interference Check Solution A	As (188.980 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	-2.5640
3/16/2018 01:12:19	Interference Check Solution A	B (249.772 nm)	0.0426 (ppm)	0.95	0.0426 (ppm)	1714.9759
3/16/2018 01:12:19	Interference Check Solution A	Ba (230.424 nm)	0.0001 (ppm)	95.71	0.0001 (ppm)	10.4311
3/16/2018 01:12:19	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	73.71	0.0000 (ppm)	-618.1350
3/16/2018 01:12:19	Interference Check Solution A	Ca (227.547 nm)	259.8368 o (ppm)	0.69	259.8368 (ppm)	12265.7928
3/16/2018 01:12:19	Interference Check Solution A	Cd (214.439 nm)	-0.0008 u (ppm)	4.81	-0.0008 (ppm)	-0.0134
3/16/2018 01:12:19	Interference Check Solution A	Co (230.786 nm)	-0.0020 u (ppm)	42.07	-0.0020 (ppm)	-22.4371
3/16/2018 01:12:19	Interference Check Solution A	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	1.6636
3/16/2018 01:12:19	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	12.81	0.0007 (ppm)	42.7448
3/16/2018 01:12:19	Interference Check Solution A	Fe (234.350 nm)	91.8882 o (ppm)	0.45	91.8882 (ppm)	899070.3635
3/16/2018 01:12:19	Interference Check Solution A	K (766.491 nm)	0.0255 (ppm)	32.73	0.0255 (ppm)	56.4146
3/16/2018 01:12:19	Interference Check Solution A	Mg (279.078 nm)	261.6829 o (ppm)	0.43	261.6829 (ppm)	482175.5535
3/16/2018 01:12:19	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	2.54	0.0016 (ppm)	449.8852
3/16/2018 01:12:19	Interference Check Solution A	Mo (202.032 nm)	-0.0005 (ppm)	40.98	0.0005 (ppm)	9.4621
3/16/2018 01:12:19	Interference Check Solution A	Na (588.995 nm)	-0.0069 u (ppm)	24.49	-0.0069 (ppm)	-8714.2485
3/16/2018 01:12:19	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	8.01	-0.0024 (ppm)	-38.3568
3/16/2018 01:12:19	Interference Check Solution A	Pb (220.353 nm)	-0.0033 u (ppm)	49.71	-0.0033 (ppm)	-0.6968
3/16/2018 01:12:19	Interference Check Solution A	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.4917
3/16/2018 01:12:19	Interference Check Solution A	Se (196.026 nm)	0.0048 u (ppm)	> 100.00	0.0048 (ppm)	6.4808
3/16/2018 01:12:19	Interference Check Solution A	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	0.3994
3/16/2018 01:12:19	Interference Check Solution A	Sr (216.596 nm)	0.0186 (ppm)	7.27	0.0186 (ppm)	236.9095
3/16/2018 01:12:19	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	10.21	0.0018 (ppm)	-335.4444
3/16/2018 01:12:19	Interference Check Solution A	Ti (351.923 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	27.9276
3/16/2018 01:12:19	Interference Check Solution A	V (292.401 nm)	0.0030 (ppm)	3.74	0.0030 (ppm)	226.5744
3/16/2018 01:12:19	Interference Check Solution A	Y (360.074 nm)	0.94 (Ratio)	0.87	0.94 (Ratio)	699273.90
3/16/2018 01:12:19	Interference Check Solution A	Y_R (360.074 nm)	0.94 (Ratio)	0.86	0.94 (Ratio)	699772.18
3/16/2018 01:12:19	Interference Check Solution A	Zn (213.857 nm)	0.0105 K (ppm)	0.61	0.0105 (ppm)	269.5258 K
3/16/2018 01:15:38	Interference Check Solution AB	Ag (328.068 nm)	0.2115 (ppm)	0.11	0.2115 (ppm)	12927.1876
3/16/2018 01:15:38	Interference Check Solution AB	Al (394.401 nm)	260.3588 o (ppm)	0.09	260.3588 (ppm)	2750949.5512
3/16/2018 01:15:38	Interference Check Solution AB	As (188.980 nm)	0.1022 (ppm)	2.41	0.1022 (ppm)	84.5565
3/16/2018 01:15:38	Interference Check Solution AB	B (249.772 nm)	0.0440 (ppm)	1.09	0.0440 (ppm)	1251.0808
3/16/2018 01:15:38	Interference Check Solution AB	Ba (230.424 nm)	0.5185 (ppm)	0.18	0.5185 (ppm)	15100.6886
3/16/2018 01:15:38	Interference Check Solution AB	Be (313.107 nm)	0.4979 (ppm)	0.15	0.4979 (ppm)	655402.8403
3/16/2018 01:15:38	Interference Check Solution AB	Ca (227.547 nm)	260.2309 o (ppm)	0.26	260.2309 (ppm)	12284.3886
3/16/2018 01:15:38	Interference Check Solution AB	Cd (214.439 nm)	0.9623 (ppm)	0.17	0.9623 (ppm)	19912.5452
3/16/2018 01:15:38	Interference Check Solution AB	Co (230.786 nm)	0.4882 (ppm)	0.18	0.4882 (ppm)	4509.9402
3/16/2018 01:15:38	Interference Check Solution AB	Cr (267.716 nm)	0.5026 (ppm)	0.10	0.5026 (ppm)	21501.6233
3/16/2018 01:15:38	Interference Check Solution AB	Cu (327.395 nm)	0.5280 (ppm)	0.21	0.5280 (ppm)	26613.6773
3/16/2018 01:15:38	Interference Check Solution AB	Fe (234.350 nm)	92.2582 o (ppm)	0.13	92.2582 (ppm)	902690.3166
3/16/2018 01:15:38	Interference Check Solution AB	K (766.491 nm)	0.0275 (ppm)	37.74	0.0275 (ppm)	61.3537
3/16/2018 01:15:38	Interference Check Solution AB	Mg (279.078 nm)	262.1206 o (ppm)	0.18	262.1206 (ppm)	482982.2234
3/16/2018 01:15:38	Interference Check Solution AB	Mn (257.610 nm)	0.4980 (ppm)	0.12	0.4980 (ppm)	136603.0971
3/16/2018 01:15:38	Interference Check Solution AB	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.6308
3/16/2018 01:15:38	Interference Check Solution AB	Na (588.995 nm)	-0.0045 u (ppm)	32.08	-0.0045 (ppm)	-8632.1376
3/16/2018 01:15:38	Interference Check Solution AB	Ni (230.299 nm)	0.9628 (ppm)	0.05	0.9628 (ppm)	6031.5037
3/16/2018 01:15:38	Interference Check Solution AB	Pb (220.353 nm)	0.0479 (ppm)	4.56	0.0479 (ppm)	103.4477
3/16/2018 01:15:38	Interference Check Solution AB	Sb (217.582 nm)	0.6123 (ppm)	0.64	0.6123 (ppm)	781.1317
3/16/2018 01:15:38	Interference Check Solution AB	Se (196.026 nm)	0.0473 (ppm)	3.98	0.0473 (ppm)	38.6247

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 01:15:38	Interference Check Solution AB	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-0.5846
3/16/2018 01:15:38	Interference Check Solution AB	Sr (216.596 nm)	0.0194 (ppm)	1.13	0.0194 (ppm)	247.2971
3/16/2018 01:15:38	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	2.69	0.0016 (ppm)	-356.6321
3/16/2018 01:15:38	Interference Check Solution AB	Tl (351.923 nm)	0.1098 (ppm)	7.01	0.1098 (ppm)	264.2677
3/16/2018 01:15:38	Interference Check Solution AB	V (292.401 nm)	0.5001 (ppm)	0.20	0.5001 (ppm)	15471.2150
3/16/2018 01:15:38	Interference Check Solution AB	Y (360.074 nm)	0.94 (Ratio)	0.59	0.94 (Ratio)	699036.29
3/16/2018 01:15:38	Interference Check Solution AB	Y_R (360.074 nm)	0.94 (Ratio)	0.59	0.94 (Ratio)	699492.27
3/16/2018 01:15:38	Interference Check Solution AB	Zn (213.857 nm)	0.9808 (ppm)	0.17	0.9808 (ppm)	27595.3424
3/16/2018 01:18:57	Continuing Calibration Verification1	Ag (328.068 nm)	0.4756 (ppm)	0.09	0.4756 (ppm)	29194.2427
3/16/2018 01:18:57	Continuing Calibration Verification1	Al (394.401 nm)	9.4604 (ppm)	0.31	9.4604 (ppm)	100066.8186
3/16/2018 01:18:57	Continuing Calibration Verification1	As (188.980 nm)	0.9968 (ppm)	0.58	0.9968 (ppm)	862.7316
3/16/2018 01:18:57	Continuing Calibration Verification1	B (249.772 nm)	2.4106 (ppm)	0.14	2.4106 (ppm)	64529.7487
3/16/2018 01:18:57	Continuing Calibration Verification1	Ba (230.424 nm)	10.1212 (ppm)	0.52	10.1212 (ppm)	294673.4933
3/16/2018 01:18:57	Continuing Calibration Verification1	Be (313.107 nm)	0.2492 (ppm)	0.18	0.2492 (ppm)	327699.1263
3/16/2018 01:18:57	Continuing Calibration Verification1	Ca (227.547 nm)	23.5655 (ppm)	0.31	23.5655 (ppm)	1118.1238
3/16/2018 01:18:57	Continuing Calibration Verification1	Cd (214.439 nm)	0.5061 (ppm)	0.17	0.5061 (ppm)	10480.6744
3/16/2018 01:18:57	Continuing Calibration Verification1	Co (230.786 nm)	2.5356 (ppm)	0.13	2.5356 (ppm)	23441.3166
3/16/2018 01:18:57	Continuing Calibration Verification1	Cr (267.716 nm)	0.5142 (ppm)	0.09	0.5142 (ppm)	21995.0181
3/16/2018 01:18:57	Continuing Calibration Verification1	Cu (327.395 nm)	1.1917 (ppm)	0.11	1.1917 (ppm)	60053.4104
3/16/2018 01:18:57	Continuing Calibration Verification1	Fe (234.350 nm)	4.9757 (ppm)	0.23	4.9757 (ppm)	48701.8602
3/16/2018 01:18:57	Continuing Calibration Verification1	K (766.491 nm)	24.2658 (ppm)	0.43	24.2658 (ppm)	58017.1681
3/16/2018 01:18:57	Continuing Calibration Verification1	Mg (279.078 nm)	24.6961 (ppm)	0.15	24.6961 (ppm)	45500.0032
3/16/2018 01:18:57	Continuing Calibration Verification1	Mn (257.610 nm)	0.7568 (ppm)	0.09	0.7568 (ppm)	207593.5127
3/16/2018 01:18:57	Continuing Calibration Verification1	Mo (202.032 nm)	2.4790 (ppm)	0.16	2.4790 (ppm)	22053.4346
3/16/2018 01:18:57	Continuing Calibration Verification1	Na (588.995 nm)	24.6974 (ppm)	0.60	24.6974 (ppm)	852855.6966
3/16/2018 01:18:57	Continuing Calibration Verification1	Ni (230.299 nm)	2.0410 (ppm)	0.12	2.0410 (ppm)	12811.8141
3/16/2018 01:18:57	Continuing Calibration Verification1	Pb (220.353 nm)	0.5034 (ppm)	0.32	0.5034 (ppm)	1028.4978
3/16/2018 01:18:57	Continuing Calibration Verification1	Sb (217.582 nm)	5.0331 (ppm)	0.17	5.0331 (ppm)	6422.0140
3/16/2018 01:18:57	Continuing Calibration Verification1	Se (196.026 nm)	0.4951 (ppm)	0.70	0.4951 (ppm)	377.4913
3/16/2018 01:18:57	Continuing Calibration Verification1	Sn (189.925 nm)	5.1044 (ppm)	0.24	5.1044 (ppm)	5777.7525
3/16/2018 01:18:57	Continuing Calibration Verification1	Sr (216.596 nm)	2.5149 (ppm)	0.25	2.5149 (ppm)	32496.7177
3/16/2018 01:18:57	Continuing Calibration Verification1	Ti (336.122 nm)	2.4382 (ppm)	0.16	2.4382 (ppm)	419294.5534
3/16/2018 01:18:57	Continuing Calibration Verification1	Tl (351.923 nm)	0.9936 (ppm)	0.38	0.9936 (ppm)	2191.5616
3/16/2018 01:18:57	Continuing Calibration Verification1	V (292.401 nm)	2.4818 (ppm)	0.15	2.4818 (ppm)	76246.7919
3/16/2018 01:18:57	Continuing Calibration Verification1	Y (360.074 nm)	1.01 (Ratio)	0.50	1.01 (Ratio)	749314.24
3/16/2018 01:18:57	Continuing Calibration Verification1	Y_R (360.074 nm)	1.01 (Ratio)	0.49	1.01 (Ratio)	749697.55
3/16/2018 01:18:57	Continuing Calibration Verification1	Zn (213.857 nm)	0.9658 (ppm)	0.13	0.9658 (ppm)	27173.9083
3/16/2018 01:22:16	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-98.0797
3/16/2018 01:22:16	Continuing Calibration Blank1	Al (394.401 nm)	0.0065 (ppm)	13.88	0.0065 (ppm)	181.3840
3/16/2018 01:22:16	Continuing Calibration Blank1	As (188.980 nm)	0.0030 (ppm)	69.60	0.0030 (ppm)	-1.7462
3/16/2018 01:22:16	Continuing Calibration Blank1	B (249.772 nm)	0.0030 (ppm)	8.13	0.0030 (ppm)	154.8949
3/16/2018 01:22:16	Continuing Calibration Blank1	Ba (230.424 nm)	0.0051 (ppm)	3.47	0.0051 (ppm)	155.3155
3/16/2018 01:22:16	Continuing Calibration Blank1	Be (313.107 nm)	0.0002 (ppm)	4.07	0.0002 (ppm)	-387.6498
3/16/2018 01:22:16	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0172 u (ppm)	> 100.00	-0.0172 (ppm)	5.4487
3/16/2018 01:22:16	Continuing Calibration Blank1	Cd (214.439 nm)	0.0003 (ppm)	6.70	0.0003 (ppm)	23.1761
3/16/2018 01:22:16	Continuing Calibration Blank1	Co (230.786 nm)	0.0011 (ppm)	48.07	0.0011 (ppm)	6.0994
3/16/2018 01:22:16	Continuing Calibration Blank1	Cr (267.716 nm)	0.0003 (ppm)	46.83	0.0003 (ppm)	8.5362
3/16/2018 01:22:16	Continuing Calibration Blank1	Cu (327.395 nm)	0.0007 (ppm)	30.58	0.0007 (ppm)	43.2133
3/16/2018 01:22:16	Continuing Calibration Blank1	Fe (234.350 nm)	0.0045 (ppm)	1.47	0.0045 (ppm)	62.6668
3/16/2018 01:22:16	Continuing Calibration Blank1	K (766.491 nm)	0.0324 (ppm)	14.01	0.0324 (ppm)	73.1009
3/16/2018 01:22:16	Continuing Calibration Blank1	Mg (279.078 nm)	0.0139 (ppm)	11.00	0.0139 (ppm)	20.2222

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
3/16/2018 01:22:16	Continuing Calibration Blank1	Mn (257.610 nm)	0.0004 (ppm)	1.88	0.0004 (ppm)	120.3626
3/16/2018 01:22:16	Continuing Calibration Blank1	Mo (202.032 nm)	0.0035 (ppm)	2.49	0.0035 (ppm)	36.5534
3/16/2018 01:22:16	Continuing Calibration Blank1	Na (588.995 nm)	0.0234 (ppm)	1.72	0.0234 (ppm)	7856.1511
3/16/2018 01:22:16	Continuing Calibration Blank1	Ni (230.299 nm)	0.0011 (ppm)	72.22	0.0011 (ppm)	16.2882
3/16/2018 01:22:16	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0010 u (ppm)	>_100.00	-0.0010 (ppm)	4.0075
3/16/2018 01:22:16	Continuing Calibration Blank1	Sb (217.582 nm)	0.0030 (ppm)	51.70	0.0030 (ppm)	3.5974
3/16/2018 01:22:16	Continuing Calibration Blank1	Se (196.026 nm)	0.0011 u (ppm)	94.17	0.0011 (ppm)	3.6266
3/16/2018 01:22:16	Continuing Calibration Blank1	Sn (189.925 nm)	0.0033 (ppm)	35.07	0.0033 (ppm)	2.9139
3/16/2018 01:22:16	Continuing Calibration Blank1	Sr (216.596 nm)	0.0014 (ppm)	10.83	0.0014 (ppm)	14.8955
3/16/2018 01:22:16	Continuing Calibration Blank1	Ti (336.122 nm)	0.0020 (ppm)	5.10	0.0020 (ppm)	293.2992
3/16/2018 01:22:16	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	24.3189
3/16/2018 01:22:16	Continuing Calibration Blank1	V (292.401 nm)	0.0013 (ppm)	5.61	0.0013 (ppm)	174.9133
3/16/2018 01:22:16	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.45	1.03 (Ratio)	764965.84
3/16/2018 01:22:16	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.45	1.03 (Ratio)	765282.70
3/16/2018 01:22:16	Continuing Calibration Blank1	Zn (213.857 nm)	0.0005 (ppm)	8.26	0.0005 (ppm)	-13.9799



Ag (328.068 nm)  
Intensity = 61594.8676 \* Concentration - 97.2451  
Correlation coefficient: 0.99999

As (188.980 nm)  
Intensity = 869.8755 \* Concentration - 4.3310  
Correlation coefficient: 0.99999

B (249.772 nm)  
Intensity = 26737.3883 \* Concentration + 75.6067  
Correlation coefficient: 0.99999

Ba (230.424 nm)  
Intensity = 29113.8178 \* Concentration + 6.3700  
Correlation coefficient: 0.99997

Be (313.107 nm)  
Intensity = 1317402.0659 \* Concentration - 586.6710  
Correlation coefficient: 1.00000

Cd (214.439 nm)  
Intensity = 20674.8760 \* Concentration + 17.0676  
Correlation coefficient: 0.99999

Co (230.786 nm)  
Intensity = 9246.2923 \* Concentration - 3.7751  
Correlation coefficient: 0.99999

Cr (267.716 nm)  
Intensity = 42786.0271 \* Concentration - 4.1123  
Correlation coefficient: 1.00000

Cu (327.395 nm)  
Intensity = 50387.0158 \* Concentration + 8.2463  
Correlation coefficient: 0.99998

K (766.491 nm)  
Intensity = 2391.0870 \* Concentration - 4.4865  
Correlation coefficient: 0.99998

Mn (257.610 nm)  
Intensity = 274304.4407 \* Concentration + 11.8193  
Correlation coefficient: 0.99999

Mo (202.032 nm)  
Intensity = 8894.2173 \* Concentration + 5.0882  
Correlation coefficient: 1.00000

Na (588.995 nm)  
Intensity = 34875.3142 \* Concentration - 8473.5396  
Correlation coefficient: 1.00000

Ni (230.299 nm)  
Intensity = 6288.6211 \* Concentration - 23.0010  
Correlation coefficient: 0.99999



Pb (220.353 nm)  
Intensity = 2031.0150 \* Concentration + 6.0978  
Correlation coefficient: 0.99999

Sb (217.582 nm)  
Intensity = 1275.9937 \* Concentration - 0.1806  
Correlation coefficient: 1.00000

Se (196.026 nm)  
Intensity = 756.7565 \* Concentration + 2.8231  
Correlation coefficient: 0.99998

Sn (189.925 nm)  
Intensity = 1132.0568 \* Concentration - 0.7693  
Correlation coefficient: 0.99999

Ti (336.122 nm)  
Intensity = 172234.2729 \* Concentration - 639.0333  
Correlation coefficient: 1.00000

Tl (351.923 nm)  
Intensity = 2180.8119 \* Concentration + 24.8064  
Correlation coefficient: 0.99993

V (292.401 nm)  
Intensity = 30668.3496 \* Concentration + 133.5454  
Correlation coefficient: 1.00000

Zn (213.857 nm)  
Intensity = 28162.9443 \* Concentration - 27.0504  
Correlation coefficient: 1.00000

Al (394.401 nm)  
Intensity = 10565.5635 \* Concentration + 112.2255  
Correlation coefficient: 0.99984

Ca (227.547 nm)  
Intensity = 47.1817 \* Concentration + 6.2624  
Correlation coefficient: 0.99993

Fe (234.350 nm)  
Intensity = 9784.1903 \* Concentration + 18.3604  
Correlation coefficient: 0.99999

Mg (279.078 nm)  
Intensity = 1842.6159 \* Concentration - 5.4444  
Correlation coefficient: 1.00000

Sr (216.596 nm)  
Intensity = 12922.7968 \* Concentration - 2.8868  
Correlation coefficient: 1.00000

## Preparation Information Benchsheet

Prep Run#: 309875  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 04:09 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802251-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D2 Temperature: 94.0C Correction Factor: 0.0C Corr. Temp: 94.0C
2	RQ1802251-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185995; 0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/185996	pH Started: 17:55 Digest on HB: 18:56 HB Shutoff: 04:56 3/14/18
3	R1801978-001	SB915-3308-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		Tier IV
4	R1802078-002	MW-505S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
5	R1802078-004	MW-505R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		
6	R1802078-006	DUPE-X	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R1802078-008	MW-315DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1802078-010	MW-315R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R1802078-012	MW-315S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1802078-014	DUPE-Y	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Ti T, V T, Zn T	<2			50.00mL	Colorless-Clear		

## Preparation Information Benchsheet

Prep Run#: 309875  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 04:09 PM

11	R1802078-016	MW-312S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1802078-018	MW-312R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R1802078-020	MW-312DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
14	R1802078-022	MW-313S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
15	R1802078-024	MW-313R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
16	R1802078-026	MW-313DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
17	R1802078-028	MW-515S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R1802078-030	MW-515DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
19	R1802078-032	MW-314S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1802078-034	MW-314R	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309875

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:09 PM

21	RQ1802251-03	R1802078-034 MS	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/185995; 0.2500 mL/185685; 0.5000 mL/185996
22	RQ1802251-04	R1802078-034 DMS	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	0.5000 mL/185995; 0.5000 mL/185996; 0.0500 mL/180701; 0.2500 mL/185685; 0.1000 mL/180703
23	R1802078-036	MW-314DR	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	
24	R1802078-038	MW-306S	.02	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2		50.00mL	Colorless-Clear	
25	R1802110-007	1803071405B BLM-7-509	.01	50mL	6010C/V T, Zn T	<2		50.00mL	Colorless-Clear	

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256-1
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256-2

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 294 (12954)

### Preparation Steps

Step: Digestion  
 Started: 3/13/18 16:09  
 Finished: 3/14/18 14:15  
 By: NMANSEN  
 Comments

Comments:

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

# Preparation Information Benchsheet

Prep Run#: 309875  
Team: Metals/NMANSEN

Prep WorkFlow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 04:09 PM

## Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/14/18</u>	<u>Extracts Examined</u> Yes      No
Received By: <u>RAOI [Signature]</u>	Date: <u>3/14/18</u>	

## Preparation Information Benchsheet

Prep Run#: 309876  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 04:09 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802252-01	MB		50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D2 Temperature: 94.0C Correction Factor: 0.0C Corr. Temp: 94.0C
2	RQ1802252-02	LCS		50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185995; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996; 0.0500 mL/180701	pH Started: 17:55 Digest on HB: 18:56 HB Shutoff: 04:56 3/14/18
3	R1801868-001	SB915-3305-01,02,03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ1802252-03	R1801868-001 MS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/185995; 0.2500 mL/185685; 0.5000 mL/185996	
5	RQ1802252-04	R1801868-001 DMS	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996; 0.5000 mL/185995	
6	R1801868-002	SB915-3305-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R1801868-003	SB915-3305-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801868-004	SB915-3305-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	R1801868-005	SB915-3305-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
10	R1801868-006	SB915-3305-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R1801868-007	SB915-3305-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801868-008	SB915-3305-10	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801868-009	SB915-3305-11	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801868-010	SB915-3305-12	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
15	R1801868-011	SB915-3306-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R1801868-012	SB915-3307-01	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R1801868-013	SB915-3307-02	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1801868-014	SB915-3307-03	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
19	R1801868-015	SB915-3307-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309876

Prep WorkFlow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:09 PM

20	R1801868-016	SB915-3307-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
21	R1801868-017	SB915-3307-06	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
22	R1801868-018	SB915-3307-07	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
23	R1801868-019	SB915-3307-08	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		
24	R1801868-020	SB915-3307-09	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2		50.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selénium 1000 ug/mL Se	Inventory ID 180701	Logbook Ref: M7080014F	Expires On: 10/12/2018	Lot #: 1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID 180703	Logbook Ref: M7080014G	Expires On: 10/12/2018	Lot #: 1610313
Name: Tin 1000 ug/mL Sn	Inventory ID 185685	Logbook Ref: M7600003U	Expires On: 05/31/2019	Lot #: 1713622
Name: Custom LCS STD A Metals	Inventory ID 185995	Logbook Ref: M7600003Y	Expires On: 05/20/2019	Lot #: 10070256-1
Name: Custom LCS STD B Metals	Inventory ID 185996	Logbook Ref: M7600003Z	Expires On: 05/20/2019	Lot #: 10070256-2

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 294 (12954)

### Preparation Steps

Step: Digestion  
 Started: 3/13/18 16:09  
 Finished: 3/14/18 14:21  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/14/18</u>	Extracts Examined Yes No
Received By: <u>RAO [Signature]</u>	Date: <u>3/14/18</u>	

## Preparation Information Benchsheet

Prep Run#: 309874  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 04:08 PM

#	Lab Code	Client ID	B#	Amt. Ext	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802248-01	MB		50mL	6010C/Ca T, Cd T, Cu T, Fe T, Fe T DOD, K T, Mg T, Mn T, Mn T DOD, Na T, Pb T	<2			50.00mL	Colorless-Clear		HB: 7 Well: D2 Temperature: 92.0C Correction Factor: 0.0C Corr. Temp: 92.0C
2	RQ1802248-02	LCS		50mL	6010C/Ca T, Cd T, Cu T, Fe T, Fe T DOD, K T, Mg T, Mn T, Mn T DOD, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185996; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185995	pH Started: 17:55 Digest on HB: 18:51 HB Shutoff: 04:51 3/14/18
3	R1801942-001	GW-1S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
4	R1801942-002	GW-1D	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
5	R1801942-003	NS-6S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
6	R1801942-004	NS-6S DUP	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R1801942-005	Equipemnt Blank	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801942-006	NS-6D	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
9	RQ1802248-03	R1801942-006 MS	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185996; 0.0500 mL/180701; 0.5000 mL/185995; 0.1000 mL/180703; 0.2500 mL/185685	
10	RQ1802248-04	R1801942-006 DMS	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701; 0.5000 mL/185996; 0.1000 mL/180703	
11	R1801942-007	NS-5S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801942-008	NS-5I	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801942-009	NS5D-03	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801942-010	GW-8D-03	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
15	R1801942-011	GW-8S-03	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
16	R1801942-012	GW-10D	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
17	R1801942-013	GW-10S	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
18	R1802033-001	CV FLTS-PTWI-3718	.02	50mL	6010C/Fe T DOD, Mn T DOD	<2			50.00mL	Colorless-Clear		



# Preparation Information Benchsheet

Prep Run#: 309874

Prep WorkFlow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:08 PM

19	RQ1802248-05	R1802033-001 MS	.12	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185996; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185995
20	RQ1802248-06	R1802033-001 DMS	.12	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/185996; 0.2500 mL/185685; 0.0500 mL/180701; 0.5000 mL/185995
21	R1802033-002	CV FLTS-EFF-3718	.02	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	
22	R1802033-003	CV FLTS-EFF-DUP-3718	.02	50mL	6010C/Fe T DOD, Mn T DOD	<2		50.00mL	Colorless-Clear	
23	R1802075-001	213 Blowdown	.01	50mL	6010C/Cu T	<2		50.00mL	Colorless-Clear	

### Spiking Solutions

Name: Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name: Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name: Tin 1000 ug/mL Sn	Inventory ID	185685	Logbook Ref:	M7600003U	Expires On:	05/31/2019	Lot #:	1713622
Name: Custom LCS STD A Metals	Inventory ID	185995	Logbook Ref:	M7600003Y	Expires On:	05/20/2019	Lot #:	10070256-1
Name: Custom LCS STD B Metals	Inventory ID	185996	Logbook Ref:	M7600003Z	Expires On:	05/20/2019	Lot #:	10070256-2

### Preparation Materials

1:1 HCl Metals Grade M7600004D (187996) Hot Block Cups 50 mL Lot 1709027 (188497) Nitric Acid Metals Grade HNO3 M7600004S (188217)  
 Thermometer 293 (12952)

### Preparation Steps

Step: Digestion  
 Started: 3/13/18 16:08  
 Finished: 3/14/18 13:58  
 By: NMANSEN  
 Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/14/18</u>	Extracts Examined Yes No
Received By: <u>RAOIT</u>	Date: <u>3/14/18</u>	

## Preparation Information Benchsheet

Prep Run#: 309873  
Team: Metals/NMANSEN

Prep Workflow: MetDigAqICP  
Prep Method: EPA 3005A/3010A

Status: Prepped  
Prep Date/Time: 3/13/18 04:07 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802244-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D2 Temperature: 92.0C Correction Factor: 0.0C Corr. Temp: 92.0C  Plunge Filtered
2	RQ1802244-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/185995; 0.2500 mL/185685; 0.1000 mL/180703; 0.5000 mL/185996	pH Started: 17:55 Digest on HB: 18:51 HB Shut off: 04:51 3/14/18  Plunge Filtered
3	R1801820-001	SB915-3304-01,02,03	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ1802244-03	R1801820-001 MS	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.5000 mL/185995; 0.5000 mL/185996; 0.1000 mL/180703; 0.0500 mL/180701; 0.2500 mL/185685	
5	RQ1802244-04	R1801820-001 DMS	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear	0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701; 0.5000 mL/185996; 0.1000 mL/180703	
6	R1801820-002	SB915-3304-04	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
7	R1801820-003	SB915-3304-05	.05	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
8	R1801851-004	SCA-0264-01	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
9	R1801851-005	SCA-0264-02	.04	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1801941-002	Gas Condensate Grab	.20	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
11	R1801943-001	Maintenance Garage Tap	.03	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
12	R1801944-002	MW-9B	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1801944-003	MW-15B	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
14	R1801944-004	MW-15D	.08	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

# Preparation Information Benchsheet

Prep Run#: 309873

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:07 PM

15	R1801944-005	MW-16B	.15	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Ti T, V T, Zn T	<2		50.00mL	Colorless-Clear		
16	R1802040-001	1802280944A BLM-21-400	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
17	R1802040-008	1803061300A ST-6-528	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
18	R1802040-015	1803061330A ST-6-568	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
19	R1802040-020	1803061333B 600-G-138	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
20	R1802040-021	1803061334B 600-G-138	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2		50.00mL	Colorless-Clear		
21	R1802055-001	Raw Leachate	.01	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2		50.00mL	Tan-Cloudy/Tan-Cloudy		Plunge Filtered
22	R1802055-002	Concentrate	.01	50mL	6010C/Al T, B T, Ba T, Ca T, Fe T, K T, Mg T, Mn T, Na T, Sr T	<2		50.00mL	Brown-Cloudy/Tan-Cloudy		Plunge Filtered
23	R1802137-002	MW-02	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear		Tier IV
24	RQ1802244-05	R1802137-002 MS	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear	0.5000 mL/185996; 0.2500 mL/185685; 0.5000 mL/185995; 0.0500 mL/180701; 0.1000 mL/180703	
25	RQ1802244-06	R1802137-002 DMS	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear	0.5000 mL/185996; 0.0500 mL/180701; 0.1000 mL/180703; 0.2500 mL/185685; 0.5000 mL/185995	
26	R1802137-008	MW-08	.01	50mL	6010C/Ag T, As T, Ba T, Cd T, Cr T, Pb T, Se T	<2		50.00mL	Colorless-Clear		

### Spiking Solutions

Name: Selenium 1000 ug/mL Se

Inventory ID 180701

Logbook Ref: M7080014F

Expires On: 10/12/2018

Lot #: 1635013

Name: Strontium 1000 ug/mL Sr

Inventory ID 180703

Logbook Ref: M7080014G

Expires On: 10/12/2018

Lot #: 1610313

# Preparation Information Benchsheet

Prep Run#: 309873

Prep Workflow: MetDigAqICP

Status: Prepped

Team: Metals/NMANSEN

Prep Method: EPA 3005A/3010A

Prep Date/Time: 3/13/18 04:07 PM

Name: Tin 1000 ug/mL Sn Inventory ID 185685

Logbook Ref: M7600003U

Expires On: 05/31/2019

Lot #: 1713622

Name: Custom LCS STD A Metals Inventory ID 185995

Logbook Ref: M7600003Y

Expires On: 05/20/2019

Lot #: 10070256-1

Name: Custom LCS STD B Metals Inventory ID 185996

Logbook Ref: M7600003Z

Expires On: 05/20/2019

Lot #: 10070256-2

## Preparation Materials

1:1 HCl Metals Grade M7600004D (187996)  
Thermometer 293 (12952)

Hot Block Cups

50 mL Lot 1709027 (188497)

Nitric Acid Metals Grade HNO3 M7600004S (188217)

## Preparation Steps

Step: Digestion  
Started: 3/13/18 16:07  
Finished: 3/14/18 13:49  
By: NMANSEN  
Comments

Comments: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/14/18</u>	<u>Extracts Examined</u> Yes No
Received By: <u>RAE</u>	Date: <u>3/14/18</u>	

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. I Int.	AL	M7620002E	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
	0.500					
Cal Std. I	CA	M7080013X	5000	0.100		BELOW
	K		5000		0.500	
	MG		5000		0.500	
	NA		5000		0.500	
Single Element	BA	M7080014BB	1000	0.020		0.020
	CU	M7600001A	1000		0.010	
	K	M7080014AA	10000		0.150	
	MN	M7080011R	1000		0.010	
	MO	M7600002V	1000		0.025	
	SB	M7600001G	1000		0.010	
	TL	M7600001N	1000		0.010	
	ZN	M7600003V	1000		0.010	
	P	-	1000		0.100	

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 3/13/18	A	M7600003T 2%	M7600004D 5%	3/20/18	M25 M35
NM 3/13/18	B	M7600003T 10%	M7600004D 5%	3/20/18	M25 M35
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3,4,5,6 CALIBRATION STANDARD #2**  
 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M7600001J	1000	0.100	1000	0.100
	AS	M7080011X	1000	0.010		0.010
	B	M7080012Z	1000	0.200		0.200
	BE	M7080012V (1/10)	100	0.030		0.003
	CA	M7080014Y	10000	0.100		1.00
	CD	M7080016N (1/10)	100	0.050		0.005
	CU	M7600001A	1000	0.020		0.020
	K	M7080014AA	10000	0.200		2.00
	MG	M7600002H	10000	0.100		1.00
	NA	M7080014Z	10000	0.100		1.00
	PB	M7080015	1000	0.050		0.050
	SB	M7600001G	1000	0.060		0.060
	SE	M7080014F	1000	0.010		0.010
	SN	M7600003U	1000	0.500		0.500

Analyst/Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
NM 1/12/18	A	M7600003T 2%	M7600003D 5%	1/19/18	M34 M25
NM 1/12/18	B	M7600003T 10%	M7600003D 5%	1/19/18	M34 M25
NM 1/23/18	C	M7600003T 2%	M7600003D 5%	1/30/18	M34 M25
NM 1/23/18	D	M7600003T 10%	M7600003D 5%	1/30/18	M34 M25
NM 1/31/18	E	M7600003T 2%	M7600003D 5%	2/7/18	M34 M25
NM 1/31/18	F	M7600003T 10%	M7600003D 5%	2/7/18	M34 M25
NM 2/6/18	G	M7600003T 2%	M7600004D 5%	2/15/18	M34 M25
NM 2/6/18	H	M7600003T 10%	M7600004D 5%	2/15/18	M34 M25
NM 2/19/18	I	M7600003T 2%	M7600004D 5%	2/26/18	M34 M25
NM 2/19/18	J	M7600003T 10%	M7600004D 5%	2/26/18	M34 M25
NM 2/27/18	K	M7600003T 2%	M7600004D 5%	3/6/18	M34 M25
NM 2/27/18	L	M7600003T 10%	M7600004D 5%	3/6/18	M34 M25
CK 3/8/18	M	M7600003T 2%	M7600004D 5%	3/15/18	M25 M34
CK 3/8/18	N	M7600003T 10%	M7600004D 5%	3/15/18	M25 M34
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

**OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)**  
**(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)**  
**(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)**

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M7600004B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
	AS		100			4.00
Cal Std 4	AS	M7600003G	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M7080014Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M7080014AA	10000	1.00		50.0
	NA	M7080014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600003U	1000	2.00		10.0
	B	M7080012Z	1000	1.00		5.00
	MO	M7600002V	1000	1.00		5.00
	TI	M7080013R	1000	1.00		5.00
	SR	M7080014G	1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot# Concentration	Hydrochloric Acid Lot # Concentration	Expiration Date	Pipet ID
NM 1/4/18	A	M7600003T 2%	M7600003D 5%	1/11/18	M34
NM 1/4/18	B	M7600003T 10%	M7600003D 5%	1/11/18	M34
NM 1/12/18	C	M7600003T 2%	M7600003D 5%	1/19/18	M34
NM 1/12/18	D	M7600003T 10%	M7600003D 5%	1/19/18	M34
NM 1/23/18	E	M7600003T 2%	M7600003D 5%	1/30/18	M34
NM 1/23/18	F	M7600003T 10%	M7600003D 5%	1/30/18	M34
NM 1/30/18	G	M7600003T 2%	M7600004D 5%	2/6/18	M34
NM 1/30/18	H	M7600003T 10%	M7600004D 5%	2/6/18	M34
NM 2/7/18	I	M7600003T 2%	M7600004D 5%	2/14/18	M34
NM 2/7/18	J	M7600003T 10%	M7600004D 5%	2/14/18	M34
CK 2/15/18	K	M7600003T 2%	M7600004D 5%	2/22/18	M34
CK 2/15/18	L	M7600003T 10%	M7600004D 5%	2/22/18	M34
NM 2/23/18	M	M7600003T 2%	M7600004D 5%	3/2/18	M34
NM 2/23/18	N	M7600003T 10%	M7600004D 5%	3/2/18	M34
CK 3/16/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
CK 3/16/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/8/18	Q	M7600003T 2%	M7600004D 5%	3/15/18	M34
NM 3/14/18	R	M7600003T 10%	M7600004D 5%	3/21/18	M35
NM 3/14/18	S	M7600003T 2%	M7600004D 5%	3/21/18	M35
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 314/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M7600002L	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	M7600001R	2000	2.00		Below
	BA		2000			40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	M76000003G	100	4.00		2.00
	CD, SE		50			Below
	PB		50			10.0
Single Metals	B	M7080012Z	1000	1.00		10.0
	MO	M7600002V	1000	1.00		10.0
	TI	M7080013R	1000	1.00		10.0
	SR	M7080014G	1000	1.00		10.0
	CA	M70800148Y	10000	2.50		250
	MG	M7600002H	10000	5.00		500
	NA	M7080014Z	10000	1.50		150
	CR	M7080012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M7600002G	10000	4.60		500
	MN	M7080011R	1000	0.700		10.00
	PB	M7080011S	1000	0.800		10.0
	K	M7080014AA	10000	1.50		150

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 1/11/18	A	M76000003T 2%	M76000003D 5%	1/25/18	M34
NM 1/11/18	B	M76000003T 10%	M76000003D 5%	1/25/18	M34
NM 1/26/18	C	M76000003T 2%	M76000004D 5%	2/9/18	M34
NM 1/26/18	D	M76000003T 10%	M76000004D 5%	2/9/18	M34
NM 2/12/18	E	M76000003T 2%	M76000004D 5%	2/26/18	M34
NM 2/12/18	F	M76000003T 10%	M76000004D 5%	2/26/18	M34
NM 2/27/18	G	M76000003T 2%	M76000004D 5%	3/13/18	M34
NM 2/27/18	H	M76000003T 10%	M76000004D 5%	3/13/18	M34
NM 3/14/18	I	M76000003T 2%	M76000004D 5%	3/28/18	M35
NM 3/14/18	J	M76000003T 10%	M76000004D 5%	3/28/18	M35
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				



OPTIMA 3/4/5/6 HLCCV3

(Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M7080014Y	10000	2.00	100	200
	CU	M7600001A	1000	0.40		4.00
	FE	M7600001C	10000	0.40		40.0
	K	M7080041AA	10000	1.00		100
	TL	M7600001N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 11/8/17	A	M7600002W 2%	M7600003D 5%	11/22/17	M35
NM 11/8/17	B	M7600002W 10%	M7600003D 5%	11/22/17	M35
NM 11/22/17	C	M7600002W 2%	M7600003D 5%	12/6/17	M35
NM 11/22/17	D	M7600002W 10%	M7600003D 5%	12/6/17	M35
NM 12/7/17	E	M7600003T 2%	M7600003D 5%	12/21/17	M35
NM 12/7/17	F	M7600003T 10%	M7600003D 5%	12/21/17	M35
NM 12/27/17	G	M7600003T 2%	M7600003D 5%	1/3/18	M35
NM 12/27/17	H	M7600003T 10%	M7600003D 5%	1/10/18	M35
NM 1/11/18	I	M7600003T 2%	M7600003D 5%	1/25/18	M34
NM 1/11/18	J	M7600003T 10%	M7600003D 5%	1/25/18	M34
NM 1/25/18	K	M7600003T 2%	M7600004D 5%	2/1/18	M34
NM 1/25/18	L	M7600003T 10%	M7600004D 5%	2/1/18	M34
NM 2/12/18	M	M7600003T 2%	M7600004D 5%	2/26/18	M34
NM 2/12/18	N	M7600003T 10%	M7600004D 5%	2/26/18	M34
NM 2/27/18	O	M7600003T 2%	M7600004D 5%	3/13/18	M34
NM 2/27/18	P	M7600003T 10%	M7600004D 5%	3/13/18	M34
NM 3/1/18	Q	M7600003T 2%	M7600004D 5%	3/28/18	M35
NM 3/1/18	R	M7600003T 10%	M7600004D 5%	3/28/18	M35
	S				

**OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)**  
**(ICV FOR ILM5.3 IS A 1/2 DILUTION OF THIS STANDARD)**

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600003A	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600003B	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600004Y	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600002K	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600002Q	1000	1.00		5.00
	B	M7600003I	1000	0.500		2.50
	MO	M7600003M	1000	0.500		2.50
	TI	M7600003K	1000	0.500		2.50
	SR	M7600002S	1000	0.500		2.50
	P		1000	1.00		5.00

Analyst/Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Pipet ID
CK 3/12/18	A	M7600003T 10%	M7600004D 5%	M34
NM 3/13/18	B	M7600003T 2%	M7600004D 5%	M35
NM 3/14/18	C	M7600003T 10%	M7600004D 5%	M35
CK 3/15/18	D	M7600003T 10%	M7600004D 5%	M34
	E			
	F			
	G			
	H			
	I			
	J			
	K			
	L			
	M			
	N			
	O			
	P			
	Q			
	R			
	S			
	T			
	U			
	V			
	W			
	X			
	Y			
	Z			
	AA			
	BB			

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7080013X	5000	0.200	1000	1.00
	MG		5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M7600002L	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M7600001R	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M7600001I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M7080012Z	1000	0.200		0.200
	MO	M7600002V	1000	0.025		0.0250
	SN	M7600002T	1000	0.500		0.500
	TI	M7080013R	1000	0.050		0.0500
	SB	M7600001G	1000	0.060		0.0600
	SR	M7080014G	1000	0.100		0.100
	P		1000	0.100		0.100

Analyst/Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/22/17	A	M7600002W 2%	M7600003D 5%	5/22/18	M25/M35
NM 11/22/17	B	M7600002W 10%	M7600003D 5%	5/22/18	M25/M35
NM 1/29/18	C	M7600002W 10%	M7600003D 5%	7/29/18	M25/M35
	D		4D		
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

NM 1/29/18

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M7600002W 10%	M7600002I 5%	4/13/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

✓ NM 11/30/17

OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M7600002F	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M7080013Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 11/9/17	A	M7600002W 10%	M7600003D 5%	5/9/18	Volumetric
NM 11/30/17	B	M7600003T 2%	M7600003D 5%	5/30/18	Volumetric
NM 11/30/17	C	M7600003T 10%	M7600003D 5%	5/30/18	Volumetric
NM 7/29/18	D	M7600003T 2%	M7600004D 5%	7/29/18	Volumetric
NM 7/29/18	E	M7600003T 10%	M7600004D 5%	7/29/18	Volumetric
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

NM 7/29/18

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/Date	Letter ID	Nitric Acid Lot #	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
Y	M7600003F	10000	2.0	2000	10.0	5 % HCl 2% HNO <sub>3</sub>	NM 11/9/17	A	M7600002W	M7600003D	5/9/18	M35
CS	M7600003E	10000	2.0		10.0		NM 11/27/17	B	M7600002W	M7600003D	5/27/18	M35
							NM 11/29/17	C	M7600002W	M7600003D	5/28/18	M35
							NM 11/30/17	D	M7600003T	M7600003D	5/30/18	M35
							NM 12/8/17	E	M7600003T	M7600003D	6/8/18	M35
							NM 12/15/17	F	M7600003T	M7600003D	6/15/18	M35
							NM 12/28/17	G	M7600003T	M7600003D	8/28/18	M35
							NM 1/15/18	H	M7600003T	M7600003D	7/15/18	M34
							NM 1/29/18	I	M7600003T	M7600004D	7/29/18	M34
							NM 2/13/18	J	M7600003T	M7600004D	8/13/18	M34
							NM 2/20/18	K	M7600003T	M7600004D	8/20/18	M34
							CK 3/16/18	L	M7600003T	M7600004D	9/16/18	M34
							NM 3/14/18	M	M7600003T	M7600004D	9/14/18	M35
								N				
								O				
								P				
								Q				
								R				
								S				
								T				
								V				

Pipettor Calibration

**Frequency:**

**Pipettes:** 3 trials for both bias and precision  
 DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.

Non-DOD: Monthly at high, medium, and low.

**Repeaters, Dispensers, and Repipettors:** 3 trials for both bias and precision

If used for dilutions - Daily before use and each time the volume is changed.

If not used for dilutions - monthly

**Calculations:**

$\% \text{Recovery} = \text{Mean/Nominal Volume} * 100$

$\% \text{RSD} = \text{Stdev/Volume} * 100$

**Limits:** % Rec: 98-102 for Pipettes and others for dilutions

% Recovery: 90-110 (Repeaters, Dispensers, Repipettors not for dilutions)

%RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Use a balance and DI for all except Dispensers and Repipettors which contain reagents. For these, dispense into a To Contain Class A grad cylinder and document the Max Volume of the cylinder instead of the Balance ID. Record to 1/10 the graduation of the cylinder.

Date	Init.	Equipment ID	Volume (mL)	Trial #1 (g/mL)	Trial #2 (g/mL)	Trial #3 (g/mL)	Bias %Recovery	Pass/Fail	Precision %RSD	Pass/Fail	Recal? Y/N	Balance ID or Class A (TC)	Comments/ Corrective Action
3/12/18	NM	M31	0.0500	0.0498	0.0497	0.0497	99.47%	P	0.115	P	N	R-18	DOD check
		↓	0.0750	0.0747	0.0748	0.0746	99.6%	P	0.133	P	N		
		M26	0.2500	0.2486	0.2494	0.2496	99.18%	P	0.211	P	N		
		↓	0.5000	0.4979	0.4979	0.4986	99.63%	P	0.081	P	N		
		↓	1.0000	0.9903	0.9908	0.9923	99.11%	P	0.104	P	N		
3/13/18	NM	M23	0.5000	0.4992	0.4976	0.4980	99.65%	P	0.167	P	N	R-10	DOD check
3/14/18	NM	M31	0.0500	0.0499	0.0501	0.0501	100.67%	P	0.231	P	N	R-10	DOD check
		↓	0.0750	0.0748	0.0748	0.0751	99.87%	P	0.231	P	N		
		M26	0.2500	0.2511	0.2507	0.2503	100.28%	P	0.16	P	N		
		↓	0.5000	0.4968	0.4971	0.4972	99.41%	P	0.042	P	N		
		↓	1.0000	0.9923	0.9915	0.9908	99.15%	P	0.075	P	N		
3/15/18	CK	M34	1.0000	0.9891	0.9893	0.9890	98.91%	P	0.015	P	N	R-10	DOD check
	CK	M25	0.1000	0.0995	0.0999	0.0994	99.6%	P	0.264	P	N		

### Sample Dilutions

Analyst: CK

Date: 7/19/18

Instrument: ICPL6

Analysis: 6010C

Common Dilutions																
Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	1% HNO3	3	3	1/2												
1/3	1% HNO3	3	6	1/3												
1/4	1% HNO3	2	6	1/4												
1/5	1% HNO3	2	8	1/5												
1/10	1% HNO3	1	9	1/10												
1/20	1% HNO3	3	3	1/2	1	9	1/20									
1/30	1% HNO3	3	6	1/3	1	9	1/30									
1/40	1% HNO3	1	3	1/4	1	9	1/40									
1/50	1% HNO3	1	4	1/5	1	9	1/50									
1/100	1% HNO3	1	9	1/100	1	9	1/100									
1/200	1% HNO3	3	3	1/2	1	9	1/200	1	9	1/200						
1/300	1% HNO3	3	6	1/3	1	9	1/300	1	9	1/300						
1/400	1% HNO3	1	3	1/4	1	9	1/400	1	9	1/400						
1/500	1% HNO3	1	4	1/5	1	9	1/500	1	9	1/500						
1/1000	1% HNO3	1	9	1/1000	1	9	1/1000	1	9	1/1000						
1/2000	1% HNO3	3	3	1/2	1	9	1/2000	1	9	1/2000	1	9	1/2000			
1/3000	1% HNO3	3	6	1/3	1	9	1/3000	1	9	1/3000	1	9	1/3000			
1/4000	1% HNO3	1	3	1/4	1	9	1/4000	1	9	1/4000	1	9	1/4000			
1/10000	1% HNO3	1	9	1/10000	1	9	1/10000	1	9	1/10000	1	9	1/10000			
1/20000	1% HNO3	1	1	1/2	1	9	1/20000	1	9	1/20000	1	9	1/20000	1	9	
1/40000	1% HNO3	1	3	1/4	1	9	1/40000	1	9	1/40000	1	9	1/40000	1	9	
1/100000	1% HNO3	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	1/100000	1	9	

Special Dilutions																
Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870 Method/Testcode: 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802251-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 16:25:01	N	IV
RQ1802251-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 16:25:01	N	IV
RQ1802251-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:25:01	N	IV
RQ1802251-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			3/15/18 16:25:01	N	IV
RQ1802251-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 16:25:01	N	IV
RQ1802251-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 16:25:01	N	IV
RQ1802251-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 16:25:01	N	IV
RQ1802251-01	Calcium, Total	MB		Water	-0.04 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 16:25:01	N	IV
RQ1802251-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 16:25:01	N	IV
RQ1802251-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:25:01	N	IV
RQ1802251-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 16:25:01	N	IV
RQ1802251-01	Iron, Total	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 16:25:01	N	IV
RQ1802251-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 16:25:01	N	IV
RQ1802251-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 16:25:01	N	IV
RQ1802251-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 16:25:01	N	IV
RQ1802251-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	4	25			3/15/18 16:25:01	N	IV
RQ1802251-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 16:25:01	N	IV
RQ1802251-01	Potassium, Total	MB		Water	0.01 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 16:25:01	N	IV
RQ1802251-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:25:01	N	IV
RQ1802251-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 16:25:01	N	IV
RQ1802251-01	Sodium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 16:25:01	N	IV
RQ1802251-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	3	100			3/15/18 16:25:01	N	IV
RQ1802251-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 16:25:01	N	IV
RQ1802251-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/15/18 16:25:01	N	IV
RQ1802251-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:25:01	N	IV
RQ1802251-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 16:25:01	N	IV
RQ1802251-02	Aluminum, Total	LCS		Water	1.83 ppm	50 mL	1830 µg/L	1	100	100	92		3/15/18 16:28:21	N	IV
RQ1802251-02	Antimony, Total	LCS		Water	0.47 ppm	50 mL	471 µg/L	1	8	60	94		3/15/18 16:28:21	N	IV
RQ1802251-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	42.5 µg/L	1	4	10	106		3/15/18 16:28:21	N	IV
RQ1802251-02	Barium, Total	LCS		Water	2.07 ppm	50 mL	2070 µg/L	1	13	20	103		3/15/18 16:28:21	N	IV
RQ1802251-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	49.1 µg/L	1	0.7	3.0	98		3/15/18 16:28:21	N	IV
RQ1802251-02	Boron, Total	LCS		Water	0.97 ppm	50 mL	966 µg/L	1	80	200	97		3/15/18 16:28:21	N	IV
RQ1802251-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	51.5 µg/L	1	0.9	5.0	103		3/15/18 16:28:21	N	IV
RQ1802251-02	Calcium, Total	LCS		Water	1.79 ppm	50 mL	1790 µg/L	1	400	1000	90		3/15/18 16:28:21	N	IV
RQ1802251-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	204 µg/L	1	3	10	102		3/15/18 16:28:21	N	IV
RQ1802251-02	Cobalt, Total	LCS		Water	0.51 ppm	50 mL	514 µg/L	1	3	50	103		3/15/18 16:28:21	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802251-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	243 µg/L	1	10	20	97		3/15/18 16:28:21	N	IV
RQ1802251-02	Iron, Total	LCS		Water	1.00 ppm	50 mL	999 µg/L	1	80	100	100		3/15/18 16:28:21	N	IV
RQ1802251-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	507 µg/L	1	4	50	101		3/15/18 16:28:21	N	IV
RQ1802251-02	Magnesium, Total	LCS		Water	1.95 ppm	50 mL	1950 µg/L	1	300	1000	98		3/15/18 16:28:21	N	IV
RQ1802251-02	Manganese, Total	LCS		Water	0.50 ppm	50 mL	500 µg/L	1	5	10	100		3/15/18 16:28:21	N	IV
RQ1802251-02	Molybdenum, Total	LCS		Water	0.49 ppm	50 mL	489 µg/L	1	4	25	98		3/15/18 16:28:21	N	IV
RQ1802251-02	Nickel, Total	LCS		Water	0.50 ppm	50 mL	503 µg/L	1	9	40	101		3/15/18 16:28:21	N	IV
RQ1802251-02	Potassium, Total	LCS		Water	19.08 ppm	50 mL	19100 µg/L	1	300	2000	95		3/15/18 16:28:21	N	IV
RQ1802251-02	Selenium, Total	LCS		Water	1.05 ppm	50 mL	1050 µg/L	1	4	10	104		3/15/18 16:28:21	N	IV
RQ1802251-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	49.2 µg/L	1	2	10	98		3/15/18 16:28:21	N	IV
RQ1802251-02	Sodium, Total	LCS		Water	19.21 ppm	50 mL	19200 µg/L	1	400	1000	96		3/15/18 16:28:21	N	IV
RQ1802251-02	Strontium, Total	LCS		Water	2.00 ppm	50 mL	2000 µg/L	1	3	100	100		3/15/18 16:28:21	N	IV
RQ1802251-02	Thallium, Total	LCS		Water	1.84 ppm	50 mL	1840 µg/L	1	6	10	92		3/15/18 16:28:21	N	IV
RQ1802251-02	Tin, Total	LCS		Water	4.97 ppm	50 mL	4970 µg/L	1	30	500	99		3/15/18 16:28:21	N	IV
RQ1802251-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	488 µg/L	1	3	50	98		3/15/18 16:28:21	N	IV
RQ1802251-02	Zinc, Total	LCS		Water	0.48 ppm	50 mL	481 µg/L	1	7	20	96		3/15/18 16:28:21	N	IV
R1801978-001	Calcium, Total	N/A		Water	25.75 ppm	50 mL	257000 µg/L	10	4000	10000			3/15/18 16:31:41	N	IV
R1801978-001	Sodium, Total	N/A		Water	15.84 ppm	50 mL	158000 µg/L	10	4000	10000			3/15/18 16:31:41	N	IV
R1801978-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U 1	0.9	5.0			3/15/18 16:35:00	N	IV
R1801978-001	Iron, Total	N/A		Water	0.09 ppm	50 mL	90 µg/L	J 1	80	100			3/15/18 16:35:00	N	IV
R1801978-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	4	50			3/15/18 16:35:00	N	IV
R1801978-001	Magnesium, Total	N/A		Water	1.64 ppm	50 mL	1600 µg/L	1	300	1000			3/15/18 16:35:00	N	IV
R1801978-001	Manganese, Total	N/A		Water	0.19 ppm	50 mL	186 µg/L	1	5	10			3/15/18 16:35:00	N	IV
R1801978-001	Potassium, Total	N/A		Water	27.01 ppm	50 mL	27000 µg/L	1	300	2000			3/15/18 16:35:00	N	IV
R1802078-002	Aluminum, Total	N/A		Water	0.15 ppm	50 mL	150 µg/L	1	100	100			3/15/18 16:41:38	N	IV
R1802078-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U 1	8	60			3/15/18 16:41:38	N	IV
R1802078-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	4	10			3/15/18 16:41:38	N	IV
R1802078-002	Barium, Total	N/A		Water	0.07 ppm	50 mL	70 µg/L	1	13	20			3/15/18 16:41:38	N	IV
R1802078-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U 1	0.7	3.0			3/15/18 16:41:38	N	IV
R1802078-002	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L	U 1	80	200			3/15/18 16:41:38	N	IV
R1802078-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U 1	0.9	5.0			3/15/18 16:41:38	N	IV
R1802078-002	Calcium, Total	N/A		Water	152.05 ppm	50 mL	152000 µg/L	1	400	1000			3/15/18 16:41:38	N	IV
R1802078-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U 1	3	10			3/15/18 16:41:38	N	IV
R1802078-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L	U 1	3	50			3/15/18 16:41:38	N	IV
R1802078-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L	U 1	10	20			3/15/18 16:41:38	N	IV
R1802078-002	Iron, Total	N/A		Water	0.17 ppm	50 mL	170 µg/L	1	80	100			3/15/18 16:41:38	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 16:41:38	N	IV
21802078-002	Magnesium, Total	N/A		Water	48.10 ppm	50 mL	48100 µg/L	1	300	1000			3/15/18 16:41:38	N	IV
21802078-002	Manganese, Total	N/A		Water	0.17 ppm	50 mL	173 µg/L	1	5	10			3/15/18 16:41:38	N	IV
21802078-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 16:41:38	N	IV
21802078-002	Potassium, Total	N/A		Water	1.35 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 16:41:38	N	IV
21802078-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:41:38	N	IV
21802078-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 16:41:38	N	IV
21802078-002	Sodium, Total	N/A		Water	22.14 ppm	50 mL	22100 µg/L	1	400	1000			3/15/18 16:41:38	N	IV
21802078-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 16:41:38	N	IV
21802078-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:41:38	N	IV
21802078-002	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 16:41:38	N	IV
21802078-004	Aluminum, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 16:44:57	N	IV
21802078-004	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 16:44:57	N	IV
21802078-004	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:44:57	N	IV
21802078-004	Barium, Total	N/A		Water	0.14 ppm	50 mL	139 µg/L	1	13	20			3/15/18 16:44:57	N	IV
21802078-004	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 16:44:57	N	IV
21802078-004	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 16:44:57	N	IV
21802078-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 16:44:57	N	IV
21802078-004	Calcium, Total	N/A		Water	77.19 ppm	50 mL	77200 µg/L	1	400	1000			3/15/18 16:44:57	N	IV
21802078-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 16:44:57	N	IV
21802078-004	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:44:57	N	IV
21802078-004	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 16:44:57	N	IV
21802078-004	Iron, Total	N/A		Water	0.30 ppm	50 mL	300 µg/L	1	80	100			3/15/18 16:44:57	N	IV
21802078-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 16:44:57	N	IV
21802078-004	Magnesium, Total	N/A		Water	22.34 ppm	50 mL	22300 µg/L	1	300	1000			3/15/18 16:44:57	N	IV
21802078-004	Manganese, Total	N/A		Water	0.09 ppm	50 mL	86 µg/L	1	5	10			3/15/18 16:44:57	N	IV
21802078-004	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 16:44:57	N	IV
21802078-004	Potassium, Total	N/A		Water	2.73 ppm	50 mL	2700 µg/L	1	300	2000			3/15/18 16:44:57	N	IV
21802078-004	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:44:57	N	IV
21802078-004	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 16:44:57	N	IV
21802078-004	Sodium, Total	N/A		Water	7.69 ppm	50 mL	7700 µg/L	1	400	1000			3/15/18 16:44:57	N	IV
21802078-004	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 16:44:57	N	IV
21802078-004	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:44:57	N	IV
21802078-004	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 16:44:57	N	IV
21802078-006	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 16:48:16	N	IV
21802078-006	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 16:48:16	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/As T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-006	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:48:16	N	IV
21802078-006	Barium, Total	N/A		Water	0.14 ppm	50 mL	140 µg/L	1	13	20			3/15/18 16:48:16	N	IV
21802078-006	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 16:48:16	N	IV
21802078-006	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 16:48:16	N	IV
21802078-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 16:48:16	N	IV
21802078-006	Calcium, Total	N/A		Water	78.05 ppm	50 mL	78000 µg/L	1	400	1000			3/15/18 16:48:16	N	IV
21802078-006	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 16:48:16	N	IV
21802078-006	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:48:16	N	IV
21802078-006	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 16:48:16	N	IV
21802078-006	Iron, Total	N/A		Water	0.30 ppm	50 mL	300 µg/L	1	80	100			3/15/18 16:48:16	N	IV
21802078-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 16:48:16	N	IV
21802078-006	Magnesium, Total	N/A		Water	22.59 ppm	50 mL	22600 µg/L	1	300	1000			3/15/18 16:48:16	N	IV
21802078-006	Manganese, Total	N/A		Water	0.09 ppm	50 mL	86 µg/L	1	5	10			3/15/18 16:48:16	N	IV
21802078-006	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 16:48:16	N	IV
21802078-006	Potassium, Total	N/A		Water	2.77 ppm	50 mL	2800 µg/L	1	300	2000			3/15/18 16:48:16	N	IV
21802078-006	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:48:16	N	IV
21802078-006	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 16:48:16	N	IV
21802078-006	Sodium, Total	N/A		Water	7.78 ppm	50 mL	7800 µg/L	1	400	1000			3/15/18 16:48:16	N	IV
21802078-006	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 16:48:16	N	IV
21802078-006	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:48:16	N	IV
21802078-006	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 16:48:16	N	IV
21802078-008	Aluminum, Total	N/A		Water	0.09 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 16:51:31	N	IV
21802078-008	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 16:51:31	N	IV
21802078-008	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:51:31	N	IV
21802078-008	Barium, Total	N/A		Water	0.07 ppm	50 mL	72 µg/L	1	13	20			3/15/18 16:51:31	N	IV
21802078-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 16:51:31	N	IV
21802078-008	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 16:51:31	N	IV
21802078-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 16:51:31	N	IV
21802078-008	Calcium, Total	N/A		Water	88.85 ppm	50 mL	88800 µg/L	1	400	1000			3/15/18 16:51:31	N	IV
21802078-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 16:51:31	N	IV
21802078-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:51:31	N	IV
21802078-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 16:51:31	N	IV
21802078-008	Iron, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 16:51:31	N	IV
21802078-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 16:51:31	N	IV
21802078-008	Magnesium, Total	N/A		Water	20.70 ppm	50 mL	20700 µg/L	1	300	1000			3/15/18 16:51:31	N	IV
21802078-008	Manganese, Total	N/A		Water	0.06 ppm	50 mL	60 µg/L	1	5	10			3/15/18 16:51:31	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-008	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 16:51:31	N	IV
21802078-008	Potassium, Total	N/A		Water	2.85 ppm	50 mL	2800 µg/L	1	300	2000			3/15/18 16:51:31	N	IV
21802078-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:51:31	N	IV
21802078-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 16:51:31	N	IV
21802078-008	Sodium, Total	N/A		Water	8.62 ppm	50 mL	8600 µg/L	1	400	1000			3/15/18 16:51:31	N	IV
21802078-008	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 16:51:31	N	IV
21802078-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:51:31	N	IV
21802078-008	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 16:51:31	N	IV
21802078-010	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 16:54:46	N	IV
21802078-010	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 16:54:46	N	IV
21802078-010	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:54:46	N	IV
21802078-010	Barium, Total	N/A		Water	0.09 ppm	50 mL	85 µg/L	1	13	20			3/15/18 16:54:46	N	IV
21802078-010	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 16:54:46	N	IV
21802078-010	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 16:54:46	N	IV
21802078-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 16:54:46	N	IV
21802078-010	Calcium, Total	N/A		Water	66.82 ppm	50 mL	66800 µg/L	1	400	1000			3/15/18 16:54:46	N	IV
21802078-010	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 16:54:46	N	IV
21802078-010	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:54:46	N	IV
21802078-010	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 16:54:46	N	IV
21802078-010	Iron, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 16:54:46	N	IV
21802078-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 16:54:46	N	IV
21802078-010	Magnesium, Total	N/A		Water	14.43 ppm	50 mL	14400 µg/L	1	300	1000			3/15/18 16:54:46	N	IV
21802078-010	Manganese, Total	N/A		Water	0.03 ppm	50 mL	30 µg/L	1	5	10			3/15/18 16:54:46	N	IV
21802078-010	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 16:54:46	N	IV
21802078-010	Potassium, Total	N/A		Water	1.93 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 16:54:46	N	IV
21802078-010	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 16:54:46	N	IV
21802078-010	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 16:54:46	N	IV
21802078-010	Sodium, Total	N/A		Water	3.99 ppm	50 mL	4000 µg/L	1	400	1000			3/15/18 16:54:46	N	IV
21802078-010	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 16:54:46	N	IV
21802078-010	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 16:54:46	N	IV
21802078-010	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 16:54:46	N	IV
21802078-012	Aluminum, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 17:04:39	N	IV
21802078-012	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:04:39	N	IV
21802078-012	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:04:39	N	IV
21802078-012	Barium, Total	N/A		Water	0.07 ppm	50 mL	72 µg/L	1	13	20			3/15/18 17:04:39	N	IV
21802078-012	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:04:39	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870

Method/Testcode: 6010C/B T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-012	Boron, Total	N/A		Water	0.26 ppm	50 mL	260 µg/L	1	80	200			3/15/18 17:04:39	N	IV
21802078-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:04:39	N	IV
21802078-012	Calcium, Total	N/A		Water	124.93 ppm	50 mL	125000 µg/L	1	400	1000			3/15/18 17:04:39	N	IV
21802078-012	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:04:39	N	IV
21802078-012	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:04:39	N	IV
21802078-012	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:04:39	N	IV
21802078-012	Iron, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 17:04:39	N	IV
21802078-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:04:39	N	IV
21802078-012	Magnesium, Total	N/A		Water	20.94 ppm	50 mL	20900 µg/L	1	300	1000			3/15/18 17:04:39	N	IV
21802078-012	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 17:04:39	N	IV
21802078-012	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:04:39	N	IV
21802078-012	Potassium, Total	N/A		Water	3.55 ppm	50 mL	3600 µg/L	1	300	2000			3/15/18 17:04:39	N	IV
21802078-012	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:04:39	N	IV
21802078-012	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:04:39	N	IV
21802078-012	Sodium, Total	N/A		Water	33.46 ppm	50 mL	33500 µg/L	1	400	1000			3/15/18 17:04:39	N	IV
21802078-012	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:04:39	N	IV
21802078-012	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:04:39	N	IV
21802078-012	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:04:39	N	IV
21802078-014	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 17:08:02	N	IV
21802078-014	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:08:02	N	IV
21802078-014	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:08:02	N	IV
21802078-014	Barium, Total	N/A		Water	0.08 ppm	50 mL	83 µg/L	1	13	20			3/15/18 17:08:02	N	IV
21802078-014	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:08:02	N	IV
21802078-014	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:08:02	N	IV
21802078-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:08:02	N	IV
21802078-014	Calcium, Total	N/A		Water	63.24 ppm	50 mL	63200 µg/L	1	400	1000			3/15/18 17:08:02	N	IV
21802078-014	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:08:02	N	IV
21802078-014	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:08:02	N	IV
21802078-014	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:08:02	N	IV
21802078-014	Iron, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 17:08:02	N	IV
21802078-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:08:02	N	IV
21802078-014	Magnesium, Total	N/A		Water	14.01 ppm	50 mL	14000 µg/L	1	300	1000			3/15/18 17:08:02	N	IV
21802078-014	Manganese, Total	N/A		Water	0.03 ppm	50 mL	28 µg/L	1	5	10			3/15/18 17:08:02	N	IV
21802078-014	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:08:02	N	IV
21802078-014	Potassium, Total	N/A		Water	1.84 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 17:08:02	N	IV
21802078-014	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:08:02	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870 Method/Testcode: 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-014	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:08:02	N	IV
21802078-014	Sodium, Total	N/A		Water	3.87 ppm	50 mL	3900 µg/L	1	400	1000			3/15/18 17:08:02	N	IV
21802078-014	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:08:02	N	IV
21802078-014	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:08:02	N	IV
21802078-014	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:08:02	N	IV
21802078-016	Aluminum, Total	N/A		Water	1.19 ppm	50 mL	1190 µg/L	1	100	100			3/15/18 17:11:26	N	IV
21802078-016	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:11:26	N	IV
21802078-016	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:11:26	N	IV
21802078-016	Barium, Total	N/A		Water	0.10 ppm	50 mL	100 µg/L	1	13	20			3/15/18 17:11:26	N	IV
21802078-016	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:11:26	N	IV
21802078-016	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:11:26	N	IV
21802078-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:11:26	N	IV
21802078-016	Calcium, Total	N/A		Water	22.76 ppm	50 mL	22800 µg/L	1	400	1000			3/15/18 17:11:26	N	IV
21802078-016	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:11:26	N	IV
21802078-016	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:11:26	N	IV
21802078-016	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:11:26	N	IV
21802078-016	Iron, Total	N/A		Water	0.78 ppm	50 mL	780 µg/L	1	80	100			3/15/18 17:11:26	N	IV
21802078-016	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:11:26	N	IV
21802078-016	Magnesium, Total	N/A		Water	5.11 ppm	50 mL	5100 µg/L	1	300	1000			3/15/18 17:11:26	N	IV
21802078-016	Manganese, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 17:11:26	N	IV
21802078-016	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:11:26	N	IV
21802078-016	Potassium, Total	N/A		Water	1.39 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 17:11:26	N	IV
21802078-016	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:11:26	N	IV
21802078-016	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:11:26	N	IV
21802078-016	Sodium, Total	N/A		Water	8.03 ppm	50 mL	8000 µg/L	1	400	1000			3/15/18 17:11:26	N	IV
21802078-016	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:11:26	N	IV
21802078-016	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:11:26	N	IV
21802078-016	Zinc, Total	N/A		Water	0.04 ppm	50 mL	35 µg/L	1	7	20			3/15/18 17:11:26	N	IV
21802078-018	Aluminum, Total	N/A		Water	0.67 ppm	50 mL	670 µg/L	1	100	100			3/15/18 17:14:48	N	IV
21802078-018	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:14:48	N	IV
21802078-018	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:14:48	N	IV
21802078-018	Barium, Total	N/A		Water	0.06 ppm	50 mL	56 µg/L	1	13	20			3/15/18 17:14:48	N	IV
21802078-018	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:14:48	N	IV
21802078-018	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:14:48	N	IV
21802078-018	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:14:48	N	IV
21802078-018	Calcium, Total	N/A		Water	35.40 ppm	50 mL	35400 µg/L	1	400	1000			3/15/18 17:14:48	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-018	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:14:48	N	IV
21802078-018	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:14:48	N	IV
21802078-018	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:14:48	N	IV
21802078-018	Iron, Total	N/A		Water	0.71 ppm	50 mL	710 µg/L	1	80	100			3/15/18 17:14:48	N	IV
21802078-018	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:14:48	N	IV
21802078-018	Magnesium, Total	N/A		Water	7.81 ppm	50 mL	7800 µg/L	1	300	1000			3/15/18 17:14:48	N	IV
21802078-018	Manganese, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	5	10			3/15/18 17:14:48	N	IV
21802078-018	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:14:48	N	IV
21802078-018	Potassium, Total	N/A		Water	4.68 ppm	50 mL	4700 µg/L	1	300	2000			3/15/18 17:14:48	N	IV
21802078-018	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:14:48	N	IV
21802078-018	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:14:48	N	IV
21802078-018	Sodium, Total	N/A		Water	2.57 ppm	50 mL	2600 µg/L	1	400	1000			3/15/18 17:14:48	N	IV
21802078-018	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:14:48	N	IV
21802078-018	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:14:48	N	IV
21802078-018	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:14:48	N	IV
21802078-020	Aluminum, Total	N/A		Water	0.55 ppm	50 mL	550 µg/L	1	100	100			3/15/18 17:18:08	N	IV
21802078-020	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:18:08	N	IV
21802078-020	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:18:08	N	IV
21802078-020	Barium, Total	N/A		Water	0.06 ppm	50 mL	57 µg/L	1	13	20			3/15/18 17:18:08	N	IV
21802078-020	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:18:08	N	IV
21802078-020	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:18:08	N	IV
21802078-020	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:18:08	N	IV
21802078-020	Calcium, Total	N/A		Water	34.59 ppm	50 mL	34600 µg/L	1	400	1000			3/15/18 17:18:08	N	IV
21802078-020	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:18:08	N	IV
21802078-020	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:18:08	N	IV
21802078-020	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:18:08	N	IV
21802078-020	Iron, Total	N/A		Water	0.58 ppm	50 mL	580 µg/L	1	80	100			3/15/18 17:18:08	N	IV
21802078-020	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:18:08	N	IV
21802078-020	Magnesium, Total	N/A		Water	5.25 ppm	50 mL	5200 µg/L	1	300	1000			3/15/18 17:18:08	N	IV
21802078-020	Manganese, Total	N/A		Water	0.11 ppm	50 mL	105 µg/L	1	5	10			3/15/18 17:18:08	N	IV
21802078-020	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:18:08	N	IV
21802078-020	Potassium, Total	N/A		Water	3.30 ppm	50 mL	3300 µg/L	1	300	2000			3/15/18 17:18:08	N	IV
21802078-020	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:18:08	N	IV
21802078-020	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:18:08	N	IV
21802078-020	Sodium, Total	N/A		Water	8.18 ppm	50 mL	8200 µg/L	1	400	1000			3/15/18 17:18:08	N	IV
21802078-020	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:18:08	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/V T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-020	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:18:08	N	IV
21802078-020	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:18:08	N	IV
21802078-022	Aluminum, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	100	100			3/15/18 17:21:29	N	IV
21802078-022	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:21:29	N	IV
21802078-022	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:21:29	N	IV
21802078-022	Barium, Total	N/A		Water	0.04 ppm	50 mL	44 µg/L	1	13	20			3/15/18 17:21:29	N	IV
21802078-022	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:21:29	N	IV
21802078-022	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:21:29	N	IV
21802078-022	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:21:29	N	IV
21802078-022	Calcium, Total	N/A		Water	66.07 ppm	50 mL	66100 µg/L	1	400	1000			3/15/18 17:21:29	N	IV
21802078-022	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:21:29	N	IV
21802078-022	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:21:29	N	IV
21802078-022	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:21:29	N	IV
21802078-022	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			3/15/18 17:21:29	N	IV
21802078-022	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:21:29	N	IV
21802078-022	Magnesium, Total	N/A		Water	11.42 ppm	50 mL	11400 µg/L	1	300	1000			3/15/18 17:21:29	N	IV
21802078-022	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 17:21:29	N	IV
21802078-022	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:21:29	N	IV
21802078-022	Potassium, Total	N/A		Water	0.64 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 17:21:29	N	IV
21802078-022	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:21:29	N	IV
21802078-022	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:21:29	N	IV
21802078-022	Sodium, Total	N/A		Water	2.11 ppm	50 mL	2100 µg/L	1	400	1000			3/15/18 17:21:29	N	IV
21802078-022	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:21:29	N	IV
21802078-022	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:21:29	N	IV
21802078-022	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:21:29	N	IV
21802078-024	Aluminum, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 17:24:44	N	IV
21802078-024	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:24:44	N	IV
21802078-024	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:24:44	N	IV
21802078-024	Barium, Total	N/A		Water	0.07 ppm	50 mL	73 µg/L	1	13	20			3/15/18 17:24:44	N	IV
21802078-024	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:24:44	N	IV
21802078-024	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:24:44	N	IV
21802078-024	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:24:44	N	IV
21802078-024	Calcium, Total	N/A		Water	75.58 ppm	50 mL	75600 µg/L	1	400	1000			3/15/18 17:24:44	N	IV
21802078-024	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:24:44	N	IV
21802078-024	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:24:44	N	IV
21802078-024	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:24:44	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870

Method/Testcode: 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-024	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 17:24:44	N	IV
21802078-024	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:24:44	N	IV
21802078-024	Magnesium, Total	N/A		Water	16.07 ppm	50 mL	16100 µg/L	1	300	1000			3/15/18 17:24:44	N	IV
21802078-024	Manganese, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 17:24:44	N	IV
21802078-024	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:24:44	N	IV
21802078-024	Potassium, Total	N/A		Water	1.57 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 17:24:44	N	IV
21802078-024	Selenium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:24:44	N	IV
21802078-024	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:24:44	N	IV
21802078-024	Sodium, Total	N/A		Water	5.23 ppm	50 mL	5200 µg/L	1	400	1000			3/15/18 17:24:44	N	IV
21802078-024	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:24:44	N	IV
21802078-024	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:24:44	N	IV
21802078-024	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:24:44	N	IV
21802078-026	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 17:27:55	N	IV
21802078-026	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:27:55	N	IV
21802078-026	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:27:55	N	IV
21802078-026	Barium, Total	N/A		Water	0.11 ppm	50 mL	110 µg/L	1	13	20			3/15/18 17:27:55	N	IV
21802078-026	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:27:55	N	IV
21802078-026	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:27:55	N	IV
21802078-026	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:27:55	N	IV
21802078-026	Calcium, Total	N/A		Water	71.38 ppm	50 mL	71400 µg/L	1	400	1000			3/15/18 17:27:55	N	IV
21802078-026	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:27:55	N	IV
21802078-026	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:27:55	N	IV
21802078-026	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:27:55	N	IV
21802078-026	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			3/15/18 17:27:55	N	IV
21802078-026	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:27:55	N	IV
21802078-026	Magnesium, Total	N/A		Water	18.39 ppm	50 mL	18400 µg/L	1	300	1000			3/15/18 17:27:55	N	IV
21802078-026	Manganese, Total	N/A		Water	0.34 ppm	50 mL	343 µg/L	1	5	10			3/15/18 17:27:55	N	IV
21802078-026	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:27:55	N	IV
21802078-026	Potassium, Total	N/A		Water	2.51 ppm	50 mL	2500 µg/L	1	300	2000			3/15/18 17:27:55	N	IV
21802078-026	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:27:55	N	IV
21802078-026	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:27:55	N	IV
21802078-026	Sodium, Total	N/A		Water	7.47 ppm	50 mL	7500 µg/L	1	400	1000			3/15/18 17:27:55	N	IV
21802078-026	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:27:55	N	IV
21802078-026	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:27:55	N	IV
21802078-026	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:27:55	N	IV
21802078-028	Aluminum, Total	N/A		Water	0.15 ppm	50 mL	150 µg/L	1	100	100			3/15/18 17:31:12	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870 Method/Testcode: 6010C/Sb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-028	Antimony, Total	N/A	Water	Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:31:12	N	IV
21802078-028	Arsenic, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:31:12	N	IV
21802078-028	Barium, Total	N/A	Water	Water	0.04 ppm	50 mL	41 µg/L	1	13	20			3/15/18 17:31:12	N	IV
21802078-028	Beryllium, Total	N/A	Water	Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:31:12	N	IV
21802078-028	Boron, Total	N/A	Water	Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:31:12	N	IV
21802078-028	Cadmium, Total	N/A	Water	Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:31:12	N	IV
21802078-028	Calcium, Total	N/A	Water	Water	83.64 ppm	50 mL	83600 µg/L	1	400	1000			3/15/18 17:31:12	N	IV
21802078-028	Chromium, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:31:12	N	IV
21802078-028	Cobalt, Total	N/A	Water	Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:31:12	N	IV
21802078-028	Copper, Total	N/A	Water	Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:31:12	N	IV
21802078-028	Iron, Total	N/A	Water	Water	0.18 ppm	50 mL	180 µg/L	1	80	100			3/15/18 17:31:12	N	IV
21802078-028	Lead, Total	N/A	Water	Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:31:12	N	IV
21802078-028	Magnesium, Total	N/A	Water	Water	25.67 ppm	50 mL	25700 µg/L	1	300	1000			3/15/18 17:31:12	N	IV
21802078-028	Manganese, Total	N/A	Water	Water	0.10 ppm	50 mL	95 µg/L	1	5	10			3/15/18 17:31:12	N	IV
21802078-028	Nickel, Total	N/A	Water	Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:31:12	N	IV
21802078-028	Potassium, Total	N/A	Water	Water	2.86 ppm	50 mL	2900 µg/L	1	300	2000			3/15/18 17:31:12	N	IV
21802078-028	Selenium, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:31:12	N	IV
21802078-028	Silver, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:31:12	N	IV
21802078-028	Sodium, Total	N/A	Water	Water	28.86 ppm	50 mL	28900 µg/L	1	400	1000			3/15/18 17:31:12	N	IV
21802078-028	Thallium, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:31:12	N	IV
21802078-028	Vanadium, Total	N/A	Water	Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:31:12	N	IV
21802078-028	Zinc, Total	N/A	Water	Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:31:12	N	IV
21802078-030	Aluminum, Total	N/A	Water	Water	0.90 ppm	50 mL	900 µg/L	1	100	100			3/15/18 17:34:29	N	IV
21802078-030	Antimony, Total	N/A	Water	Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:34:29	N	IV
21802078-030	Arsenic, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:34:29	N	IV
21802078-030	Barium, Total	N/A	Water	Water	0.02 ppm	50 mL	22 µg/L	1	13	20			3/15/18 17:34:29	N	IV
21802078-030	Beryllium, Total	N/A	Water	Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:34:29	N	IV
21802078-030	Boron, Total	N/A	Water	Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:34:29	N	IV
21802078-030	Cadmium, Total	N/A	Water	Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:34:29	N	IV
21802078-030	Calcium, Total	N/A	Water	Water	32.94 ppm	50 mL	32900 µg/L	1	400	1000			3/15/18 17:34:29	N	IV
21802078-030	Chromium, Total	N/A	Water	Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:34:29	N	IV
21802078-030	Cobalt, Total	N/A	Water	Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:34:29	N	IV
21802078-030	Copper, Total	N/A	Water	Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:34:29	N	IV
21802078-030	Iron, Total	N/A	Water	Water	0.66 ppm	50 mL	660 µg/L	1	80	100			3/15/18 17:34:29	N	IV
21802078-030	Lead, Total	N/A	Water	Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:34:29	N	IV
21802078-030	Magnesium, Total	N/A	Water	Water	21.04 ppm	50 mL	21000 µg/L	1	300	1000			3/15/18 17:34:29	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583870

Method/Testcode: 6010C/Mn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-030	Manganese, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 17:34:29	N	IV
21802078-030	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:34:29	N	IV
21802078-030	Potassium, Total	N/A		Water	2.84 ppm	50 mL	2800 µg/L	1	300	2000			3/15/18 17:34:29	N	IV
21802078-030	Selenium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:34:29	N	IV
21802078-030	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:34:29	N	IV
21802078-030	Sodium, Total	N/A		Water	17.36 ppm	50 mL	17400 µg/L	1	400	1000			3/15/18 17:34:29	N	IV
21802078-030	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:34:29	N	IV
21802078-030	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:34:29	N	IV
21802078-030	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:34:29	N	IV
21802078-032	Aluminum, Total	N/A		Water	0.42 ppm	50 mL	420 µg/L	1	100	100			3/15/18 17:44:22	N	IV
21802078-032	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:44:22	N	IV
21802078-032	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:44:22	N	IV
21802078-032	Barium, Total	N/A		Water	0.11 ppm	50 mL	109 µg/L	1	13	20			3/15/18 17:44:22	N	IV
21802078-032	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:44:22	N	IV
21802078-032	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:44:22	N	IV
21802078-032	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:44:22	N	IV
21802078-032	Calcium, Total	N/A		Water	70.92 ppm	50 mL	70900 µg/L	1	400	1000			3/15/18 17:44:22	N	IV
21802078-032	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:44:22	N	IV
21802078-032	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:44:22	N	IV
21802078-032	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:44:22	N	IV
21802078-032	Iron, Total	N/A		Water	0.54 ppm	50 mL	540 µg/L	1	80	100			3/15/18 17:44:22	N	IV
21802078-032	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:44:22	N	IV
21802078-032	Magnesium, Total	N/A		Water	23.78 ppm	50 mL	23800 µg/L	1	300	1000			3/15/18 17:44:22	N	IV
21802078-032	Manganese, Total	N/A		Water	0.27 ppm	50 mL	275 µg/L	1	5	10			3/15/18 17:44:22	N	IV
21802078-032	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:44:22	N	IV
21802078-032	Potassium, Total	N/A		Water	1.64 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 17:44:22	N	IV
21802078-032	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:44:22	N	IV
21802078-032	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:44:22	N	IV
21802078-032	Sodium, Total	N/A		Water	6.24 ppm	50 mL	6200 µg/L	1	400	1000			3/15/18 17:44:22	N	IV
21802078-032	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:44:22	N	IV
21802078-032	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:44:22	N	IV
21802078-032	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:44:22	N	IV
21802078-034	Aluminum, Total	N/A		Water	0.06 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 17:47:40	Y	IV
21802078-034	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 17:47:40	Y	IV
21802078-034	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:47:40	Y	IV
21802078-034	Barium, Total	N/A		Water	0.09 ppm	50 mL	94 µg/L	1	13	20			3/15/18 17:47:40	Y	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870

Method/Testcode: 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1802078-034	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 17:47:40	Y	IV
R1802078-034	Boron, Total	N/A		Water	0.02 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 17:47:40	Y	IV
R1802078-034	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 17:47:40	Y	IV
R1802078-034	Calcium, Total	N/A		Water	69.38 ppm	50 mL	69400 µg/L	1	400	1000			3/15/18 17:47:40	Y	IV
R1802078-034	Chromium, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 17:47:40	Y	IV
R1802078-034	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:47:40	Y	IV
R1802078-034	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 17:47:40	Y	IV
R1802078-034	Iron, Total	N/A		Water	0.22 ppm	50 mL	220 µg/L	1	80	100			3/15/18 17:47:40	Y	IV
R1802078-034	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 17:47:40	Y	IV
R1802078-034	Magnesium, Total	N/A		Water	22.69 ppm	50 mL	22700 µg/L	1	300	1000			3/15/18 17:47:40	Y	IV
R1802078-034	Manganese, Total	N/A		Water	0.10 ppm	50 mL	102 µg/L	1	5	10			3/15/18 17:47:40	Y	IV
R1802078-034	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 17:47:40	Y	IV
R1802078-034	Potassium, Total	N/A		Water	2.81 ppm	50 mL	2800 µg/L	1	300	2000			3/15/18 17:47:40	Y	IV
R1802078-034	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 17:47:40	Y	IV
R1802078-034	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 17:47:40	Y	IV
R1802078-034	Sodium, Total	N/A		Water	7.47 ppm	50 mL	7500 µg/L	1	400	1000			3/15/18 17:47:40	Y	IV
R1802078-034	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 17:47:40	Y	IV
R1802078-034	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 17:47:40	Y	IV
R1802078-034	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 17:47:40	Y	IV
RQ1802251-03	Aluminum, Total	MS	R1802078-034	Water	1.87 ppm	50 mL	1870 µg/L	1	100	100	93		3/15/18 17:50:59	N	IV
RQ1802251-03	Antimony, Total	MS	R1802078-034	Water	0.46 ppm	50 mL	462 µg/L	1	8	60	92		3/15/18 17:50:59	N	IV
RQ1802251-03	Arsenic, Total	MS	R1802078-034	Water	0.04 ppm	50 mL	43 µg/L	1	4	10	109		3/15/18 17:50:59	N	IV
RQ1802251-03	Barium, Total	MS	R1802078-034	Water	2.03 ppm	50 mL	2030 µg/L	1	13	20	97		3/15/18 17:50:59	N	IV
RQ1802251-03	Beryllium, Total	MS	R1802078-034	Water	0.05 ppm	50 mL	47.2 µg/L	1	0.7	3.0	94		3/15/18 17:50:59	N	IV
RQ1802251-03	Boron, Total	MS	R1802078-034	Water	0.97 ppm	50 mL	970 µg/L	1	80	200	97		3/15/18 17:50:59	N	IV
RQ1802251-03	Cadmium, Total	MS	R1802078-034	Water	0.05 ppm	50 mL	48.0 µg/L	1	0.9	5.0	96		3/15/18 17:50:59	N	IV
RQ1802251-03	Calcium, Total	MS	R1802078-034	Water	71.72 ppm	50 mL	71700 µg/L	1	400	1000	117		3/15/18 17:50:59	N	IV
RQ1802251-03	Chromium, Total	MS	R1802078-034	Water	0.19 ppm	50 mL	194 µg/L	1	3	10	97		3/15/18 17:50:59	N	IV
RQ1802251-03	Cobalt, Total	MS	R1802078-034	Water	0.47 ppm	50 mL	473 µg/L	1	3	50	95		3/15/18 17:50:59	N	IV
RQ1802251-03	Copper, Total	MS	R1802078-034	Water	0.23 ppm	50 mL	231 µg/L	1	10	20	92		3/15/18 17:50:59	N	IV
RQ1802251-03	Iron, Total	MS	R1802078-034	Water	1.22 ppm	50 mL	1220 µg/L	1	80	100	100		3/15/18 17:50:59	N	IV
RQ1802251-03	Lead, Total	MS	R1802078-034	Water	0.48 ppm	50 mL	477 µg/L	1	4	50	95		3/15/18 17:50:59	N	IV
RQ1802251-03	Magnesium, Total	MS	R1802078-034	Water	24.32 ppm	50 mL	24300 µg/L	1	300	1000	82		3/15/18 17:50:59	N	IV
RQ1802251-03	Manganese, Total	MS	R1802078-034	Water	0.67 ppm	50 mL	669 µg/L	1	5	10	113		3/15/18 17:50:59	N	IV
RQ1802251-03	Nickel, Total	MS	R1802078-034	Water	0.46 ppm	50 mL	457 µg/L	1	9	40	91		3/15/18 17:50:59	N	IV
RQ1802251-03	Potassium, Total	MS	R1802078-034	Water	21.48 ppm	50 mL	21500 µg/L	1	300	2000	93		3/15/18 17:50:59	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870

Method/Testcode: 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802251-03	Selenium, Total	MS	R1802078-034	Water	1.04 ppm	50 mL	1040 µg/L	1	4	10	103		3/15/18 17:50:59	N	IV
2Q1802251-03	Silver, Total	MS	R1802078-034	Water	0.05 ppm	50 mL	48 µg/L	1	2	10	96		3/15/18 17:50:59	N	IV
2Q1802251-03	Sodium, Total	MS	R1802078-034	Water	25.79 ppm	50 mL	25800 µg/L	1	400	1000	92		3/15/18 17:50:59	N	IV
2Q1802251-03	Thallium, Total	MS	R1802078-034	Water	1.83 ppm	50 mL	1830 µg/L	1	6	10	92		3/15/18 17:50:59	N	IV
2Q1802251-03	Vanadium, Total	MS	R1802078-034	Water	0.47 ppm	50 mL	469 µg/L	1	3	50	94		3/15/18 17:50:59	N	IV
2Q1802251-03	Zinc, Total	MS	R1802078-034	Water	0.45 ppm	50 mL	454 µg/L	1	7	20	91		3/15/18 17:50:59	N	IV
2Q1802251-04	Aluminum, Total	DMS	R1802078-034	Water	1.94 ppm	50 mL	1940 µg/L	1	100	100	97	4	3/15/18 17:54:17	N	IV
2Q1802251-04	Antimony, Total	DMS	R1802078-034	Water	0.48 ppm	50 mL	476 µg/L	1	8	60	95	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Arsenic, Total	DMS	R1802078-034	Water	0.04 ppm	50 mL	39 µg/L	1	4	10	98	10	3/15/18 17:54:17	N	IV
2Q1802251-04	Barium, Total	DMS	R1802078-034	Water	2.11 ppm	50 mL	2110 µg/L	1	13	20	101	4	3/15/18 17:54:17	N	IV
2Q1802251-04	Beryllium, Total	DMS	R1802078-034	Water	0.05 ppm	50 mL	48.9 µg/L	1	0.7	3.0	98	4	3/15/18 17:54:17	N	IV
2Q1802251-04	Boron, Total	DMS	R1802078-034	Water	1.00 ppm	50 mL	1000 µg/L	1	80	200	100	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Cadmium, Total	DMS	R1802078-034	Water	0.05 ppm	50 mL	49.5 µg/L	1	0.9	5.0	99	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Calcium, Total	DMS	R1802078-034	Water	73.20 ppm	50 mL	73200 µg/L	1	400	1000	191	2	3/15/18 17:54:17	N	IV
2Q1802251-04	Chromium, Total	DMS	R1802078-034	Water	0.20 ppm	50 mL	201 µg/L	1	3	10	101	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Cobalt, Total	DMS	R1802078-034	Water	0.49 ppm	50 mL	490 µg/L	1	3	50	98	4	3/15/18 17:54:17	N	IV
2Q1802251-04	Copper, Total	DMS	R1802078-034	Water	0.24 ppm	50 mL	241 µg/L	1	10	20	97	4	3/15/18 17:54:17	N	IV
2Q1802251-04	Iron, Total	DMS	R1802078-034	Water	1.27 ppm	50 mL	1270 µg/L	1	80	100	105	4	3/15/18 17:54:17	N	IV
2Q1802251-04	Lead, Total	DMS	R1802078-034	Water	0.49 ppm	50 mL	494 µg/L	1	4	50	99	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Magnesium, Total	DMS	R1802078-034	Water	24.90 ppm	50 mL	24900 µg/L	1	300	1000	111	2	3/15/18 17:54:17	N	IV
2Q1802251-04	Manganese, Total	DMS	R1802078-034	Water	0.69 ppm	50 mL	692 µg/L	1	5	10	118	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Nickel, Total	DMS	R1802078-034	Water	0.47 ppm	50 mL	471 µg/L	1	9	40	94	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Potassium, Total	DMS	R1802078-034	Water	22.17 ppm	50 mL	22200 µg/L	1	300	2000	97	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Selenium, Total	DMS	R1802078-034	Water	1.06 ppm	50 mL	1060 µg/L	1	4	10	105	2	3/15/18 17:54:17	N	IV
2Q1802251-04	Silver, Total	DMS	R1802078-034	Water	0.05 ppm	50 mL	49 µg/L	1	2	10	98	2	3/15/18 17:54:17	N	IV
2Q1802251-04	Sodium, Total	DMS	R1802078-034	Water	26.63 ppm	50 mL	26600 µg/L	1	400	1000	96	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Thallium, Total	DMS	R1802078-034	Water	1.90 ppm	50 mL	1900 µg/L	1	6	10	95	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Vanadium, Total	DMS	R1802078-034	Water	0.49 ppm	50 mL	486 µg/L	1	3	50	97	3	3/15/18 17:54:17	N	IV
2Q1802251-04	Zinc, Total	DMS	R1802078-034	Water	0.47 ppm	50 mL	467 µg/L	1	7	20	93	3	3/15/18 17:54:17	N	IV
21802078-036	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L	U	1	100	100		3/15/18 18:04:14	N	IV
21802078-036	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L	U	1	8	60		3/15/18 18:04:14	N	IV
21802078-036	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L	U	1	4	10		3/15/18 18:04:14	N	IV
21802078-036	Barium, Total	N/A		Water	0.08 ppm	50 mL	81 µg/L	1	13	20			3/15/18 18:04:14	N	IV
21802078-036	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	U	1	0.7	3.0		3/15/18 18:04:14	N	IV
21802078-036	Boron, Total	N/A		Water	0.06 ppm	50 mL	200 µg/L	U	1	80	200		3/15/18 18:04:14	N	IV
21802078-036	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L	U	1	0.9	5.0		3/15/18 18:04:14	N	IV

*Handwritten note:* 191 \*low

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870

Method/Testcode: 6010C/Ca T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-036	Calcium, Total	N/A		Water	95.51 ppm	50 mL	95500 µg/L	1	400	1000			3/15/18 18:04:14	N	IV
21802078-036	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 18:04:14	N	IV
21802078-036	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 18:04:14	N	IV
21802078-036	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 18:04:14	N	IV
21802078-036	Iron, Total	N/A		Water	0.26 ppm	50 mL	260 µg/L	1	80	100			3/15/18 18:04:14	N	IV
21802078-036	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 18:04:14	N	IV
21802078-036	Magnesium, Total	N/A		Water	17.91 ppm	50 mL	17900 µg/L	1	300	1000			3/15/18 18:04:14	N	IV
21802078-036	Manganese, Total	N/A		Water	0.05 ppm	50 mL	49 µg/L	1	5	10			3/15/18 18:04:14	N	IV
21802078-036	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 18:04:14	N	IV
21802078-036	Potassium, Total	N/A		Water	3.05 ppm	50 mL	3000 µg/L	1	300	2000			3/15/18 18:04:14	N	IV
21802078-036	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 18:04:14	N	IV
21802078-036	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 18:04:14	N	IV
21802078-036	Sodium, Total	N/A		Water	11.94 ppm	50 mL	11900 µg/L	1	400	1000			3/15/18 18:04:14	N	IV
21802078-036	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 18:04:14	N	IV
21802078-036	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 18:04:14	N	IV
21802078-036	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 18:04:14	N	IV
21802078-038	Aluminum, Total	N/A		Water	0.23 ppm	50 mL	230 µg/L	1	100	100			3/15/18 18:07:33	N	IV
21802078-038	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 18:07:33	N	IV
21802078-038	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 18:07:33	N	IV
21802078-038	Barium, Total	N/A		Water	0.14 ppm	50 mL	144 µg/L	1	13	20			3/15/18 18:07:33	N	IV
21802078-038	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 18:07:33	N	IV
21802078-038	Boron, Total	N/A		Water	0.01 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 18:07:33	N	IV
21802078-038	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 18:07:33	N	IV
21802078-038	Calcium, Total	N/A		Water	55.46 ppm	50 mL	55500 µg/L	1	400	1000			3/15/18 18:07:33	N	IV
21802078-038	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 18:07:33	N	IV
21802078-038	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 18:07:33	N	IV
21802078-038	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 18:07:33	N	IV
21802078-038	Iron, Total	N/A		Water	0.46 ppm	50 mL	460 µg/L	1	80	100			3/15/18 18:07:33	N	IV
21802078-038	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 18:07:33	N	IV
21802078-038	Magnesium, Total	N/A		Water	12.66 ppm	50 mL	12700 µg/L	1	300	1000			3/15/18 18:07:33	N	IV
21802078-038	Manganese, Total	N/A		Water	0.08 ppm	50 mL	81 µg/L	1	5	10			3/15/18 18:07:33	N	IV
21802078-038	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 18:07:33	N	IV
21802078-038	Potassium, Total	N/A		Water	1.25 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 18:07:33	N	IV
21802078-038	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 18:07:33	N	IV
21802078-038	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 18:07:33	N	IV
21802078-038	Sodium, Total	N/A		Water	5.56 ppm	50 mL	5600 µg/L	1	400	1000			3/15/18 18:07:33	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583870 Method/Testcode: 6010C/TIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802078-038	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			3/15/18 18:07:33	N	IV
21802078-038	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 18:07:33	N	IV
21802078-038	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 18:07:33	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583871 Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802252-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 18:47:46	N	IV
RQ1802252-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 18:47:46	N	IV
RQ1802252-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 18:47:46	N	IV
RQ1802252-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 18:47:46	N	IV
RQ1802252-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 18:47:46	N	IV
RQ1802252-01	Potassium, Total	MB		Water	0.02 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 18:47:46	N	IV
RQ1802252-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	51.6 µg/L	1	0.9	5.0	103		3/15/18 18:51:05	N	IV
RQ1802252-02	Iron, Total	LCS		Water	1.00 ppm	50 mL	998 µg/L	1	80	100	100		3/15/18 18:51:05	N	IV
RQ1802252-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	509 µg/L	1	4	50	102		3/15/18 18:51:05	N	IV
RQ1802252-02	Magnesium, Total	LCS		Water	1.95 ppm	50 mL	1950 µg/L	1	300	1000	97		3/15/18 18:51:05	N	IV
RQ1802252-02	Manganese, Total	LCS		Water	0.50 ppm	50 mL	501 µg/L	1	5	10	100		3/15/18 18:51:05	N	IV
RQ1802252-02	Potassium, Total	LCS		Water	19.01 ppm	50 mL	19000 µg/L	1	300	2000	95		3/15/18 18:51:05	N	IV
R1801868-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 18:54:24	Y	IV
R1801868-001	Iron, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 18:54:24	Y	IV
R1801868-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 18:54:24	Y	IV
R1801868-001	Magnesium, Total	N/A		Water	0.60 ppm	50 mL	600 µg/L J	1	300	1000			3/15/18 18:54:24	Y	IV
R1801868-001	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 18:54:24	Y	IV
R1801868-001	Potassium, Total	N/A		Water	65.45 ppm	50 mL	65400 µg/L	1	300	2000			3/15/18 18:54:24	Y	IV
RQ1802252-03	Cadmium, Total	MS	R1801868-001	Water	0.05 ppm	50 mL	45.3 µg/L	1	0.9	5.0	91		3/15/18 18:57:41	N	IV
RQ1802252-03	Iron, Total	MS	R1801868-001	Water	0.97 ppm	50 mL	970 µg/L	1	80	100	97		3/15/18 18:57:41	N	IV
RQ1802252-03	Lead, Total	MS	R1801868-001	Water	0.48 ppm	50 mL	475 µg/L	1	4	50	95		3/15/18 18:57:41	N	IV
RQ1802252-03	Magnesium, Total	MS	R1801868-001	Water	2.46 ppm	50 mL	2500 µg/L	1	300	1000	93		3/15/18 18:57:41	N	IV
RQ1802252-03	Manganese, Total	MS	R1801868-001	Water	0.47 ppm	50 mL	466 µg/L	1	5	10	93		3/15/18 18:57:41	N	IV
RQ1802252-03	Potassium, Total	MS	R1801868-001	Water	85.10 ppm	50 mL	85100 µg/L	1	300	2000	98		3/15/18 18:57:41	N	IV
RQ1802252-04	Cadmium, Total	DMS	R1801868-001	Water	0.05 ppm	50 mL	46.8 µg/L	1	0.9	5.0	94	3	3/15/18 19:01:00	N	IV
RQ1802252-04	Iron, Total	DMS	R1801868-001	Water	1.03 ppm	50 mL	1030 µg/L	1	80	100	103	5	3/15/18 19:01:00	N	IV
RQ1802252-04	Lead, Total	DMS	R1801868-001	Water	0.49 ppm	50 mL	491 µg/L	1	4	50	98	3	3/15/18 19:01:00	N	IV
RQ1802252-04	Magnesium, Total	DMS	R1801868-001	Water	2.57 ppm	50 mL	2600 µg/L	1	300	1000	99	4	3/15/18 19:01:00	N	IV
RQ1802252-04	Manganese, Total	DMS	R1801868-001	Water	0.49 ppm	50 mL	485 µg/L	1	5	10	97	4	3/15/18 19:01:00	N	IV
RQ1802252-04	Potassium, Total	DMS	R1801868-001	Water	89.09 ppm	50 mL	89100 µg/L	1	300	2000	118	5	3/15/18 19:01:00	N	IV
R1801868-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:10:57	N	IV
R1801868-002	Iron, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:10:57	N	IV
R1801868-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:10:57	N	IV
R1801868-002	Magnesium, Total	N/A		Water	3.62 ppm	50 mL	3600 µg/L	1	300	1000			3/15/18 19:10:57	N	IV
R1801868-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:10:57	N	IV
R1801868-002	Potassium, Total	N/A		Water	48.56 ppm	50 mL	48600 µg/L	1	300	2000			3/15/18 19:10:57	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583871

Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801868-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:14:17	N	IV
21801868-003	Iron, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:14:17	N	IV
21801868-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:14:17	N	IV
21801868-003	Magnesium, Total	N/A		Water	1.02 ppm	50 mL	1000 µg/L	1	300	1000			3/15/18 19:14:17	N	IV
21801868-003	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:14:17	N	IV
21801868-003	Potassium, Total	N/A		Water	71.74 ppm	50 mL	71700 µg/L	1	300	2000			3/15/18 19:14:17	N	IV
21801868-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:17:36	N	IV
21801868-004	Iron, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:17:36	N	IV
21801868-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:17:36	N	IV
21801868-004	Magnesium, Total	N/A		Water	4.59 ppm	50 mL	4600 µg/L	1	300	1000			3/15/18 19:17:36	N	IV
21801868-004	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:17:36	N	IV
21801868-004	Potassium, Total	N/A		Water	19.72 ppm	50 mL	19700 µg/L	1	300	2000			3/15/18 19:17:36	N	IV
21801868-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:27:33	N	IV
21801868-005	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:27:33	N	IV
21801868-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:27:33	N	IV
21801868-005	Magnesium, Total	N/A		Water	5.60 ppm	50 mL	5600 µg/L	1	300	1000			3/15/18 19:27:33	N	IV
21801868-005	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:27:33	N	IV
21801868-005	Potassium, Total	N/A		Water	54.20 ppm	50 mL	54200 µg/L	1	300	2000			3/15/18 19:27:33	N	IV
21801868-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:30:52	N	IV
21801868-006	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:30:52	N	IV
21801868-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:30:52	N	IV
21801868-006	Magnesium, Total	N/A		Water	0.57 ppm	50 mL	600 µg/L	1	300	1000			3/15/18 19:30:52	N	IV
21801868-006	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:30:52	N	IV
21801868-006	Potassium, Total	N/A		Water	43.67 ppm	50 mL	43700 µg/L	1	300	2000			3/15/18 19:30:52	N	IV
21801868-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:34:11	N	IV
21801868-007	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:34:11	N	IV
21801868-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:34:11	N	IV
21801868-007	Magnesium, Total	N/A		Water	2.04 ppm	50 mL	2000 µg/L	1	300	1000			3/15/18 19:34:11	N	IV
21801868-007	Manganese, Total	N/A		Water	0.01 ppm	50 mL	11 µg/L	1	5	10			3/15/18 19:34:11	N	IV
21801868-007	Potassium, Total	N/A		Water	73.38 ppm	50 mL	73400 µg/L	1	300	2000			3/15/18 19:34:11	N	IV
21801868-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:37:30	N	IV
21801868-008	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:37:30	N	IV
21801868-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:37:30	N	IV
21801868-008	Magnesium, Total	N/A		Water	0.08 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 19:37:30	N	IV
21801868-008	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:37:30	N	IV
21801868-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:40:48	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583871

Method/Testcode: 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801868-009	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:40:48	N	IV
21801868-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:40:48	N	IV
21801868-009	Magnesium, Total	N/A		Water	7.67 ppm	50 mL	7700 µg/L	1	300	1000			3/15/18 19:40:48	N	IV
21801868-009	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:40:48	N	IV
21801868-009	Potassium, Total	N/A		Water	54.59 ppm	50 mL	54600 µg/L	1	300	2000			3/15/18 19:40:48	N	IV
21801868-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:44:07	N	IV
21801868-010	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:44:07	N	IV
21801868-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:44:07	N	IV
21801868-010	Magnesium, Total	N/A		Water	1.79 ppm	50 mL	1800 µg/L	1	300	1000			3/15/18 19:44:07	N	IV
21801868-010	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:44:07	N	IV
21801868-010	Potassium, Total	N/A		Water	19.40 ppm	50 mL	19400 µg/L	1	300	2000			3/15/18 19:44:07	N	IV
21801868-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:47:26	N	IV
21801868-011	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			3/15/18 19:47:26	N	IV
21801868-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:47:26	N	IV
21801868-011	Magnesium, Total	N/A		Water	0.55 ppm	50 mL	600 µg/L J	1	300	1000			3/15/18 19:47:26	N	IV
21801868-011	Manganese, Total	N/A		Water	0.01 ppm	50 mL	9 µg/L J	1	5	10			3/15/18 19:47:26	N	IV
21801868-011	Potassium, Total	N/A		Water	51.08 ppm	50 mL	51100 µg/L	1	300	2000			3/15/18 19:47:26	N	IV
21801868-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:50:45	N	IV
21801868-012	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:50:45	N	IV
21801868-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:50:45	N	IV
21801868-012	Magnesium, Total	N/A		Water	1.15 ppm	50 mL	1100 µg/L	1	300	1000			3/15/18 19:50:45	N	IV
21801868-012	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 19:50:45	N	IV
21801868-012	Potassium, Total	N/A		Water	32.65 ppm	50 mL	32700 µg/L	1	300	2000			3/15/18 19:50:45	N	IV
21801868-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:54:04	N	IV
21801868-013	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:54:04	N	IV
21801868-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:54:04	N	IV
21801868-013	Magnesium, Total	N/A		Water	1.47 ppm	50 mL	1500 µg/L	1	300	1000			3/15/18 19:54:04	N	IV
21801868-013	Manganese, Total	N/A		Water	0.02 ppm	50 mL	16 µg/L	1	5	10			3/15/18 19:54:04	N	IV
21801868-013	Potassium, Total	N/A		Water	36.71 ppm	50 mL	36700 µg/L	1	300	2000			3/15/18 19:54:04	N	IV
21801868-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 19:57:23	N	IV
21801868-014	Iron, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 19:57:23	N	IV
21801868-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 19:57:23	N	IV
21801868-014	Magnesium, Total	N/A		Water	9.94 ppm	50 mL	9900 µg/L	1	300	1000			3/15/18 19:57:23	N	IV
21801868-014	Manganese, Total	N/A		Water	0.02 ppm	50 mL	15 µg/L	1	5	10			3/15/18 19:57:23	N	IV
21801868-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:07:22	N	IV
21801868-015	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:07:22	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583871

Method/Testcode: 6010C/Pb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801868-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:07:22	N	IV
21801868-015	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 20:07:22	N	IV
21801868-015	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:07:22	N	IV
21801868-015	Potassium, Total	N/A		Water	32.74 ppm	50 mL	32700 µg/L	1	300	2000			3/15/18 20:07:22	N	IV
21801868-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:10:41	N	IV
21801868-016	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:10:41	N	IV
21801868-016	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:10:41	N	IV
21801868-016	Magnesium, Total	N/A		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 20:10:41	N	IV
21801868-016	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:10:41	N	IV
21801868-016	Potassium, Total	N/A		Water	25.61 ppm	50 mL	25600 µg/L	1	300	2000			3/15/18 20:10:41	N	IV
21801868-017	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:14:00	N	IV
21801868-017	Iron, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:14:00	N	IV
21801868-017	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:14:00	N	IV
21801868-017	Magnesium, Total	N/A		Water	0.09 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 20:14:00	N	IV
21801868-017	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:14:00	N	IV
21801868-017	Potassium, Total	N/A		Water	25.44 ppm	50 mL	25400 µg/L	1	300	2000			3/15/18 20:14:00	N	IV
21801868-018	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:17:19	N	IV
21801868-018	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:17:19	N	IV
21801868-018	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:17:19	N	IV
21801868-018	Magnesium, Total	N/A		Water	0.37 ppm	50 mL	400 µg/L U	1	300	1000			3/15/18 20:17:19	N	IV
21801868-018	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:17:19	N	IV
21801868-018	Potassium, Total	N/A		Water	84.94 ppm	50 mL	84900 µg/L	1	300	2000			3/15/18 20:17:19	N	IV
21801868-019	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:20:37	N	IV
21801868-019	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:20:37	N	IV
21801868-019	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:20:37	N	IV
21801868-019	Magnesium, Total	N/A		Water	0.06 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 20:20:37	N	IV
21801868-019	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:20:37	N	IV
21801868-019	Potassium, Total	N/A		Water	58.10 ppm	50 mL	58100 µg/L	1	300	2000			3/15/18 20:20:37	N	IV
21801868-020	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:23:56	N	IV
21801868-020	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:23:56	N	IV
21801868-020	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:23:56	N	IV
21801868-020	Magnesium, Total	N/A		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 20:23:56	N	IV
21801868-020	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:23:56	N	IV
21801868-020	Potassium, Total	N/A		Water	25.91 ppm	50 mL	25900 µg/L	1	300	2000			3/15/18 20:23:56	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583872

Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802248-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:50:26	N	II
2Q1802248-01	Calcium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 20:50:26	N	II
2Q1802248-01	Iron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 20:50:26	N	II
2Q1802248-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 20:50:26	N	II
2Q1802248-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:50:26	N	II
2Q1802248-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 20:50:26	N	II
2Q1802248-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	5	20			3/15/18 20:50:26	N	II
2Q1802248-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 20:50:26	N	II
2Q1802248-01	Potassium, Total	MB		Water	0.00 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 20:50:26	N	II
2Q1802248-01	Sodium, Total	MB		Water	0.02 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 20:50:26	N	II
2Q1802248-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	50.8 µg/L	1	0.9	5.0	102		3/15/18 20:53:45	N	II
2Q1802248-02	Calcium, Total	LCS		Water	1.72 ppm	50 mL	1720 µg/L	1	400	1000	86		3/15/18 20:53:45	N	II
2Q1802248-02	Iron, Total	LCS		Water	0.98 ppm	50 mL	982 µg/L	1	80	200	98		3/15/18 20:53:45	N	II
2Q1802248-02	Iron, Total	LCS		Water	0.98 ppm	50 mL	982 µg/L	1	80	100	98		3/15/18 20:53:45	N	II
2Q1802248-02	Lead, Total	LCS		Water	0.50 ppm	50 mL	501 µg/L	1	4	50	100		3/15/18 20:53:45	N	II
2Q1802248-02	Magnesium, Total	LCS		Water	1.92 ppm	50 mL	1920 µg/L	1	300	1000	96		3/15/18 20:53:45	N	II
2Q1802248-02	Manganese, Total	LCS		Water	0.49 ppm	50 mL	493 µg/L	1	5	20	99		3/15/18 20:53:45	N	II
2Q1802248-02	Manganese, Total	LCS		Water	0.49 ppm	50 mL	493 µg/L	1	5	10	99		3/15/18 20:53:45	N	II
2Q1802248-02	Potassium, Total	LCS		Water	18.79 ppm	50 mL	18800 µg/L	1	300	2000	94		3/15/18 20:53:45	N	II
2Q1802248-02	Sodium, Total	LCS		Water	19.16 ppm	50 mL	19200 µg/L	1	400	1000	96		3/15/18 20:53:45	N	II
21801942-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 20:57:03	N	II
21801942-001	Calcium, Total	N/A		Water	49.55 ppm	50 mL	49500 µg/L	1	400	1000			3/15/18 20:57:03	N	II
21801942-001	Iron, Total	N/A		Water	0.34 ppm	50 mL	340 µg/L	1	80	100			3/15/18 20:57:03	N	II
21801942-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 20:57:03	N	II
21801942-001	Magnesium, Total	N/A		Water	17.29 ppm	50 mL	17300 µg/L	1	300	1000			3/15/18 20:57:03	N	II
21801942-001	Manganese, Total	N/A		Water	0.82 ppm	50 mL	815 µg/L	1	5	10			3/15/18 20:57:03	N	II
21801942-001	Potassium, Total	N/A		Water	1.00 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 20:57:03	N	II
21801942-001	Sodium, Total	N/A		Water	11.54 ppm	50 mL	11500 µg/L	1	400	1000			3/15/18 20:57:03	N	II
21801942-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:00:22	N	II
21801942-002	Calcium, Total	N/A		Water	34.22 ppm	50 mL	34200 µg/L	1	400	1000			3/15/18 21:00:22	N	II
21801942-002	Iron, Total	N/A		Water	0.46 ppm	50 mL	460 µg/L	1	80	100			3/15/18 21:00:22	N	II
21801942-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:00:22	N	II
21801942-002	Magnesium, Total	N/A		Water	11.52 ppm	50 mL	11500 µg/L	1	300	1000			3/15/18 21:00:22	N	II
21801942-002	Manganese, Total	N/A		Water	0.74 ppm	50 mL	737 µg/L	1	5	10			3/15/18 21:00:22	N	II
21801942-002	Potassium, Total	N/A		Water	0.97 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:00:22	N	II
21801942-002	Sodium, Total	N/A		Water	13.07 ppm	50 mL	13100 µg/L	1	400	1000			3/15/18 21:00:22	N	II

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# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583872 Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1801942-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:03:41	N	II
R1801942-003	Calcium, Total	N/A		Water	53.89 ppm	50 mL	53900 µg/L	1	400	1000			3/15/18 21:03:41	N	II
R1801942-003	Iron, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 21:03:41	N	II
R1801942-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:03:41	N	II
R1801942-003	Magnesium, Total	N/A		Water	18.73 ppm	50 mL	18700 µg/L	1	300	1000			3/15/18 21:03:41	N	II
R1801942-003	Manganese, Total	N/A		Water	0.25 ppm	50 mL	248 µg/L	1	5	10			3/15/18 21:03:41	N	II
R1801942-003	Potassium, Total	N/A		Water	0.99 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:03:41	N	II
R1801942-003	Sodium, Total	N/A		Water	14.59 ppm	50 mL	14600 µg/L	1	400	1000			3/15/18 21:03:41	N	II
R1801942-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:06:59	N	II
R1801942-004	Calcium, Total	N/A		Water	55.17 ppm	50 mL	55200 µg/L	1	400	1000			3/15/18 21:06:59	N	II
R1801942-004	Iron, Total	N/A		Water	0.20 ppm	50 mL	200 µg/L	1	80	100			3/15/18 21:06:59	N	II
R1801942-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:06:59	N	II
R1801942-004	Magnesium, Total	N/A		Water	19.14 ppm	50 mL	19100 µg/L	1	300	1000			3/15/18 21:06:59	N	II
R1801942-004	Manganese, Total	N/A		Water	0.74 ppm	50 mL	744 µg/L	1	5	10			3/15/18 21:06:59	N	II
R1801942-004	Potassium, Total	N/A		Water	1.05 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:06:59	N	II
R1801942-004	Sodium, Total	N/A		Water	14.93 ppm	50 mL	14900 µg/L	1	400	1000			3/15/18 21:06:59	N	II
R1801942-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:10:16	N	II
R1801942-005	Calcium, Total	N/A		Water	-0.04 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 21:10:16	N	II
R1801942-005	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 21:10:16	N	II
R1801942-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:10:16	N	II
R1801942-005	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 21:10:16	N	II
R1801942-005	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 21:10:16	N	II
R1801942-005	Potassium, Total	N/A		Water	0.00 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:10:16	N	II
R1801942-005	Sodium, Total	N/A		Water	0.02 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 21:10:16	N	II
R1801942-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:13:34	Y	II
R1801942-006	Calcium, Total	N/A		Water	47.18 ppm	50 mL	47200 µg/L	1	400	1000			3/15/18 21:13:34	Y	II
R1801942-006	Iron, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 21:13:34	Y	II
R1801942-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:13:34	Y	II
R1801942-006	Magnesium, Total	N/A		Water	18.53 ppm	50 mL	18500 µg/L	1	300	1000			3/15/18 21:13:34	Y	II
R1801942-006	Manganese, Total	N/A		Water	0.05 ppm	50 mL	49 µg/L	1	5	10			3/15/18 21:13:34	Y	II
R1801942-006	Potassium, Total	N/A		Water	0.97 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:13:34	Y	II
R1801942-006	Sodium, Total	N/A		Water	17.48 ppm	50 mL	17500 µg/L	1	400	1000			3/15/18 21:13:34	Y	II
RQ1802248-03	Cadmium, Total	MS	R1801942-006	Water	0.05 ppm	50 mL	50.2 µg/L	1	0.9	5.0	100		3/15/18 21:16:53	N	II
RQ1802248-03	Calcium, Total	MS	R1801942-006	Water	49.67 ppm	50 mL	49700 µg/L	1	400	1000	125		3/15/18 21:16:53	N	II
RQ1802248-03	Iron, Total	MS	R1801942-006	Water	1.03 ppm	50 mL	1030 µg/L	1	80	100	103		3/15/18 21:16:53	N	II
RQ1802248-03	Lead, Total	MS	R1801942-006	Water	0.50 ppm	50 mL	497 µg/L	1	4	50	99		3/15/18 21:16:53	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583872

Method/Testcode: 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802248-03	Magnesium, Total	MS	R1801942-006	Water	20.51 ppm	50 mL	20500 µg/L	1	300	1000	99		3/15/18 21:16:53	N	II
RQ1802248-03	Manganese, Total	MS	R1801942-006	Water	0.56 ppm	50 mL	556 µg/L	1	5	10	101		3/15/18 21:16:53	N	II
RQ1802248-03	Potassium, Total	MS	R1801942-006	Water	20.66 ppm	50 mL	20700 µg/L	1	300	2000	103		3/15/18 21:16:53	N	II
RQ1802248-03	Sodium, Total	MS	R1801942-006	Water	36.57 ppm	50 mL	36600 µg/L	1	400	1000	95		3/15/18 21:16:53	N	II
RQ1802248-04	Cadmium, Total	DMS	R1801942-006	Water	0.05 ppm	50 mL	50.7 µg/L	1	0.9	5.0	101	<1	3/15/18 21:20:12	N	II
RQ1802248-04	Calcium, Total	DMS	R1801942-006	Water	49.74 ppm	50 mL	49700 µg/L	1	400	1000	128*	<1	3/15/18 21:20:12	N	II
RQ1802248-04	Iron, Total	DMS	R1801942-006	Water	1.05 ppm	50 mL	1050 µg/L	1	80	100	105	1	3/15/18 21:20:12	N	II
RQ1802248-04	Lead, Total	DMS	R1801942-006	Water	0.50 ppm	50 mL	499 µg/L	1	4	50	100	<1	3/15/18 21:20:12	N	II
RQ1802248-04	Magnesium, Total	DMS	R1801942-006	Water	20.56 ppm	50 mL	20600 µg/L	1	300	1000	101	<1	3/15/18 21:20:12	N	II
RQ1802248-04	Manganese, Total	DMS	R1801942-006	Water	0.56 ppm	50 mL	562 µg/L	1	5	10	103	1	3/15/18 21:20:12	N	II
RQ1802248-04	Potassium, Total	DMS	R1801942-006	Water	20.81 ppm	50 mL	20800 µg/L	1	300	2000	104	<1	3/15/18 21:20:12	N	II
RQ1802248-04	Sodium, Total	DMS	R1801942-006	Water	36.80 ppm	50 mL	36800 µg/L	1	400	1000	97	<1	3/15/18 21:20:12	N	II
R1801942-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:36:45	N	II
R1801942-007	Calcium, Total	N/A		Water	54.94 ppm	50 mL	54900 µg/L	1	400	1000			3/15/18 21:36:45	N	II
R1801942-007	Iron, Total	N/A		Water	0.44 ppm	50 mL	440 µg/L	1	80	100			3/15/18 21:36:45	N	II
R1801942-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:36:45	N	II
R1801942-007	Magnesium, Total	N/A		Water	13.55 ppm	50 mL	13500 µg/L	1	300	1000			3/15/18 21:36:45	N	II
R1801942-007	Manganese, Total	N/A		Water	0.54 ppm	50 mL	542 µg/L	1	5	10			3/15/18 21:36:45	N	II
R1801942-007	Potassium, Total	N/A		Water	0.95 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:36:45	N	II
R1801942-007	Sodium, Total	N/A		Water	15.16 ppm	50 mL	15200 µg/L	1	400	1000			3/15/18 21:36:45	N	II
R1801942-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:40:04	N	II
R1801942-008	Calcium, Total	N/A		Water	15.97 ppm	50 mL	16000 µg/L	1	400	1000			3/15/18 21:40:04	N	II
R1801942-008	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			3/15/18 21:40:04	N	II
R1801942-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:40:04	N	II
R1801942-008	Magnesium, Total	N/A		Water	7.63 ppm	50 mL	7600 µg/L	1	300	1000			3/15/18 21:40:04	N	II
R1801942-008	Manganese, Total	N/A		Water	0.03 ppm	50 mL	26 µg/L	1	5	10			3/15/18 21:40:04	N	II
R1801942-008	Potassium, Total	N/A		Water	1.35 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:40:04	N	II
R1801942-008	Sodium, Total	N/A		Water	9.09 ppm	50 mL	9100 µg/L	1	400	1000			3/15/18 21:40:04	N	II
R1801942-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:43:22	N	II
R1801942-009	Calcium, Total	N/A		Water	49.77 ppm	50 mL	49800 µg/L	1	400	1000			3/15/18 21:43:22	N	II
R1801942-009	Iron, Total	N/A		Water	0.24 ppm	50 mL	240 µg/L	1	80	100			3/15/18 21:43:22	N	II
R1801942-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:43:22	N	II
R1801942-009	Magnesium, Total	N/A		Water	16.65 ppm	50 mL	16600 µg/L	1	300	1000			3/15/18 21:43:22	N	II
R1801942-009	Manganese, Total	N/A		Water	0.23 ppm	50 mL	225 µg/L	1	5	10			3/15/18 21:43:22	N	II
R1801942-009	Potassium, Total	N/A		Water	0.89 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:43:22	N	II
R1801942-009	Sodium, Total	N/A		Water	86.47 ppm	50 mL	86500 µg/L	1	400	1000			3/15/18 21:43:22	N	II

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583872

Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1801942-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:46:41	N	II
1801942-010	Calcium, Total	N/A		Water	62.89 ppm	50 mL	62900 µg/L	1	400	1000			3/15/18 21:46:41	N	II
1801942-010	Iron, Total	N/A		Water	0.15 ppm	50 mL	150 µg/L	1	80	100			3/15/18 21:46:41	N	II
1801942-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:46:41	N	II
1801942-010	Magnesium, Total	N/A		Water	21.23 ppm	50 mL	21200 µg/L	1	300	1000			3/15/18 21:46:41	N	II
1801942-010	Manganese, Total	N/A		Water	0.19 ppm	50 mL	191 µg/L	1	5	10			3/15/18 21:46:41	N	II
1801942-010	Potassium, Total	N/A		Water	0.93 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:46:41	N	II
1801942-010	Sodium, Total	N/A		Water	39.97 ppm	50 mL	40000 µg/L	1	400	1000			3/15/18 21:46:41	N	II
1801942-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:50:00	N	II
1801942-011	Calcium, Total	N/A		Water	38.52 ppm	50 mL	38500 µg/L	1	400	1000			3/15/18 21:50:00	N	II
1801942-011	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 21:50:00	N	II
1801942-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:50:00	N	II
1801942-011	Magnesium, Total	N/A		Water	11.46 ppm	50 mL	11500 µg/L	1	300	1000			3/15/18 21:50:00	N	II
1801942-011	Manganese, Total	N/A		Water	0.41 ppm	50 mL	409 µg/L	1	5	10			3/15/18 21:50:00	N	II
1801942-011	Potassium, Total	N/A		Water	0.67 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:50:00	N	II
1801942-011	Sodium, Total	N/A		Water	10.18 ppm	50 mL	10200 µg/L	1	400	1000			3/15/18 21:50:00	N	II
1801942-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:53:18	N	II
1801942-012	Calcium, Total	N/A		Water	82.44 ppm	50 mL	82400 µg/L	1	400	1000			3/15/18 21:53:18	N	II
1801942-012	Iron, Total	N/A		Water	0.08 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 21:53:18	N	II
1801942-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:53:18	N	II
1801942-012	Magnesium, Total	N/A		Water	27.64 ppm	50 mL	27600 µg/L	1	300	1000			3/15/18 21:53:18	N	II
1801942-012	Manganese, Total	N/A		Water	0.24 ppm	50 mL	243 µg/L	1	5	10			3/15/18 21:53:18	N	II
1801942-012	Potassium, Total	N/A		Water	1.09 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:53:18	N	II
1801942-012	Sodium, Total	N/A		Water	49.48 ppm	50 mL	49500 µg/L	1	400	1000			3/15/18 21:53:18	N	II
1801942-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 21:56:37	N	II
1801942-013	Calcium, Total	N/A		Water	41.03 ppm	50 mL	41000 µg/L	1	400	1000			3/15/18 21:56:37	N	II
1801942-013	Iron, Total	N/A		Water	0.36 ppm	50 mL	360 µg/L	1	80	100			3/15/18 21:56:37	N	II
1801942-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 21:56:37	N	II
1801942-013	Magnesium, Total	N/A		Water	13.72 ppm	50 mL	13700 µg/L	1	300	1000			3/15/18 21:56:37	N	II
1801942-013	Manganese, Total	N/A		Water	0.57 ppm	50 mL	573 µg/L	1	5	10			3/15/18 21:56:37	N	II
1801942-013	Potassium, Total	N/A		Water	0.92 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 21:56:37	N	II
1801942-013	Sodium, Total	N/A		Water	9.09 ppm	50 mL	9100 µg/L	1	400	1000			3/15/18 21:56:37	N	II
1802033-001	Iron, Total	N/A		Water	1.35 ppm	50 mL	1350 µg/L	1	80	200			3/15/18 21:59:56	Y	II
1802033-001	Manganese, Total	N/A		Water	1.36 ppm	50 mL	1360 µg/L	1	5	20			3/15/18 21:59:56	Y	II
1802248-05	Iron, Total	MS	R1802033-001	Water	2.83 ppm	50 mL	2830 µg/L	1	80	200	148*		3/15/18 22:09:52	N	II
1802248-05	Manganese, Total	MS	R1802033-001	Water	1.84 ppm	50 mL	1840 µg/L	1	5	20	95		3/15/18 22:09:52	N	II

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583872 Method/Testcode: 6010C/Fe T DOD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802248-06	Iron, Total	DMS	R1802033-001	Water	2.84 ppm	50 mL	2840 µg/L	1	80	200	149*	<1	3/15/18 22:13:11	N	II
RQ1802248-06	Manganese, Total	DMS	R1802033-001	Water	1.84 ppm	50 mL	1840 µg/L	1	5	20	95	<1	3/15/18 22:13:11	N	II
R1802033-002	Iron, Total	N/A		Water	2.70 ppm	50 mL	2700 µg/L	1	80	200			3/15/18 22:23:07	N	II
R1802033-002	Manganese, Total	N/A		Water	1.61 ppm	50 mL	1610 µg/L	1	5	20			3/15/18 22:23:07	N	II
R1802033-003	Iron, Total	N/A		Water	2.34 ppm	50 mL	2340 µg/L	1	80	200			3/15/18 22:26:25	N	II
R1802033-003	Manganese, Total	N/A		Water	1.36 ppm	50 mL	1360 µg/L	1	5	20			3/15/18 22:26:25	N	II

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583873

Method/Testcode: 6010C/AIT

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1802244-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 22:56:26	N	IV
2Q1802244-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 22:56:26	N	IV
2Q1802244-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 22:56:26	N	IV
2Q1802244-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			3/15/18 22:56:26	N	IV
2Q1802244-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 22:56:26	N	IV
2Q1802244-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 22:56:26	N	IV
2Q1802244-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 22:56:26	N	IV
2Q1802244-01	Calcium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 22:56:26	N	IV
2Q1802244-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 22:56:26	N	IV
2Q1802244-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 22:56:26	N	IV
2Q1802244-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 22:56:26	N	IV
2Q1802244-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 22:56:26	N	IV
2Q1802244-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 22:56:26	N	IV
2Q1802244-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 22:56:26	N	IV
2Q1802244-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 22:56:26	N	IV
2Q1802244-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	4	25			3/15/18 22:56:26	N	IV
2Q1802244-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 22:56:26	N	IV
2Q1802244-01	Potassium, Total	MB		Water	0.11 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 22:56:26	N	IV
2Q1802244-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 22:56:26	N	IV
2Q1802244-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 22:56:26	N	IV
2Q1802244-01	Sodium, Total	MB		Water	0.04 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 22:56:26	N	IV
2Q1802244-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	3	100			3/15/18 22:56:26	N	IV
2Q1802244-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/15/18 22:56:26	N	IV
2Q1802244-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 22:56:26	N	IV
2Q1802244-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 22:56:26	N	IV
2Q1802244-02	Aluminum, Total	LCS		Water	1.82 ppm	50 mL	1820 µg/L	1	100	100	91		3/15/18 22:59:45	N	IV
2Q1802244-02	Antimony, Total	LCS		Water	0.47 ppm	50 mL	469 µg/L	1	8	60	94		3/15/18 22:59:45	N	IV
2Q1802244-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	38.8 µg/L	1	4	10	97		3/15/18 22:59:45	N	IV
2Q1802244-02	Barium, Total	LCS		Water	2.04 ppm	50 mL	2040 µg/L	1	13	20	102		3/15/18 22:59:45	N	IV
2Q1802244-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	48.7 µg/L	1	0.7	3.0	97		3/15/18 22:59:45	N	IV
2Q1802244-02	Boron, Total	LCS		Water	0.95 ppm	50 mL	953 µg/L	1	80	200	95		3/15/18 22:59:45	N	IV
2Q1802244-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	50.8 µg/L	1	0.9	5.0	102		3/15/18 22:59:45	N	IV
2Q1802244-02	Calcium, Total	LCS		Water	1.76 ppm	50 mL	1760 µg/L	1	400	1000	88		3/15/18 22:59:45	N	IV
2Q1802244-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	203 µg/L	1	3	10	101		3/15/18 22:59:45	N	IV
2Q1802244-02	Cobalt, Total	LCS		Water	0.51 ppm	50 mL	512 µg/L	1	3	50	102		3/15/18 22:59:45	N	IV
2Q1802244-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	240 µg/L	1	10	20	96		3/15/18 22:59:45	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583873

Method/Testcode: 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802244-02	Iron, Total	LCS		Water	1.00 ppm	50 mL	996 µg/L	1	80	100	100		3/15/18 22:59:45	N	IV
RQ1802244-02	Lead, Total	LCS		Water	0.50 ppm	50 mL	505 µg/L	1	4	50	101		3/15/18 22:59:45	N	IV
RQ1802244-02	Magnesium, Total	LCS		Water	1.95 ppm	50 mL	1950 µg/L	1	300	1000	97		3/15/18 22:59:45	N	IV
RQ1802244-02	Manganese, Total	LCS		Water	0.50 ppm	50 mL	498 µg/L	1	5	10	100		3/15/18 22:59:45	N	IV
RQ1802244-02	Molybdenum, Total	LCS		Water	0.49 ppm	50 mL	486 µg/L	1	4	25	97		3/15/18 22:59:45	N	IV
RQ1802244-02	Nickel, Total	LCS		Water	0.50 ppm	50 mL	501 µg/L	1	9	40	100		3/15/18 22:59:45	N	IV
RQ1802244-02	Potassium, Total	LCS		Water	19.11 ppm	50 mL	19100 µg/L	1	300	2000	96		3/15/18 22:59:45	N	IV
RQ1802244-02	Selenium, Total	LCS		Water	1.03 ppm	50 mL	1030 µg/L	1	4	10	101		3/15/18 22:59:45	N	IV
RQ1802244-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	48.6 µg/L	1	2	10	97		3/15/18 22:59:45	N	IV
RQ1802244-02	Sodium, Total	LCS		Water	19.46 ppm	50 mL	19500 µg/L	1	400	1000	97		3/15/18 22:59:45	N	IV
RQ1802244-02	Strontium, Total	LCS		Water	2.00 ppm	50 mL	2000 µg/L	1	3	100	100		3/15/18 22:59:45	N	IV
RQ1802244-02	Tin, Total	LCS		Water	4.99 ppm	50 mL	4990 µg/L	1	30	500	100		3/15/18 22:59:45	N	IV
RQ1802244-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	486 µg/L	1	3	50	97		3/15/18 22:59:45	N	IV
RQ1802244-02	Zinc, Total	LCS		Water	0.49 ppm	50 mL	486 µg/L	1	7	20	97		3/15/18 22:59:45	N	IV
R1801820-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:03:04	Y	IV
R1801820-001	Calcium, Total	N/A		Water	129.22 ppm	50 mL	129000 µg/L	1	400	1000			3/15/18 23:03:04	Y	IV
R1801820-001	Iron, Total	N/A		Water	0.73 ppm	50 mL	730 µg/L	1	80	100			3/15/18 23:03:04	Y	IV
R1801820-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:03:04	Y	IV
R1801820-001	Magnesium, Total	N/A		Water	19.13 ppm	50 mL	19100 µg/L	1	300	1000			3/15/18 23:03:04	Y	IV
R1801820-001	Manganese, Total	N/A		Water	0.85 ppm	50 mL	852 µg/L	1	5	10			3/15/18 23:03:04	Y	IV
R1801820-001	Potassium, Total	N/A		Water	3.34 ppm	50 mL	3300 µg/L	1	300	2000			3/15/18 23:03:04	Y	IV
R1801820-001	Sodium, Total	N/A		Water	91.17 ppm	50 mL	91200 µg/L	1	400	1000			3/15/18 23:03:04	Y	IV
RQ1802244-03	Cadmium, Total	MS	R1801820-001	Water	0.05 ppm	50 mL	47.7 µg/L	1	0.9	5.0	95		3/15/18 23:06:23	N	IV
RQ1802244-03	Calcium, Total	MS	R1801820-001	Water	128.79 ppm	50 mL	129000 µg/L	1	400	1000	-21*		3/15/18 23:06:23	N	IV
RQ1802244-03	Iron, Total	MS	R1801820-001	Water	1.69 ppm	50 mL	1690 µg/L	1	80	100	96		3/15/18 23:06:23	N	IV
RQ1802244-03	Lead, Total	MS	R1801820-001	Water	0.48 ppm	50 mL	480 µg/L	1	4	50	96		3/15/18 23:06:23	N	IV
RQ1802244-03	Magnesium, Total	MS	R1801820-001	Water	20.63 ppm	50 mL	20600 µg/L	1	300	1000	75		3/15/18 23:06:23	N	IV
RQ1802244-03	Manganese, Total	MS	R1801820-001	Water	1.31 ppm	50 mL	1310 µg/L	1	5	10	92		3/15/18 23:06:23	N	IV
RQ1802244-03	Potassium, Total	MS	R1801820-001	Water	23.02 ppm	50 mL	23000 µg/L	1	300	2000	98		3/15/18 23:06:23	N	IV
RQ1802244-03	Sodium, Total	MS	R1801820-001	Water	107.06 ppm	50 mL	107000 µg/L	1	400	1000	79		3/15/18 23:06:23	N	IV
RQ1802244-04	Cadmium, Total	DMS	R1801820-001	Water	0.05 ppm	50 mL	48.8 µg/L	1	0.9	5.0	98	2	3/15/18 23:09:42	N	IV
RQ1802244-04	Calcium, Total	DMS	R1801820-001	Water	130.21 ppm	50 mL	130000 µg/L	1	400	1000	50*	1	3/15/18 23:09:42	N	IV
RQ1802244-04	Iron, Total	DMS	R1801820-001	Water	1.72 ppm	50 mL	1720 µg/L	1	80	100	99	2	3/15/18 23:09:42	N	IV
RQ1802244-04	Lead, Total	DMS	R1801820-001	Water	0.49 ppm	50 mL	489 µg/L	1	4	50	98	2	3/15/18 23:09:42	N	IV
RQ1802244-04	Magnesium, Total	DMS	R1801820-001	Water	20.87 ppm	50 mL	20900 µg/L	1	300	1000	87	1	3/15/18 23:09:42	N	IV
RQ1802244-04	Manganese, Total	DMS	R1801820-001	Water	1.33 ppm	50 mL	1330 µg/L	1	5	10	96	2	3/15/18 23:09:42	N	IV

\* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583873 Method/Testcode: 6010C/K T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802244-04	Potassium, Total	DMS	R1801820-001	Water	23.56 ppm	50 mL	23600 µg/L	1	300	2000	101	2	3/15/18 23:09:42	N	IV
RQ1802244-04	Sodium, Total	DMS	R1801820-001	Water	108.16 ppm	50 mL	108000 µg/L	1	400	1000	85	1	3/15/18 23:09:42	N	IV
R1801820-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:19:40	N	IV
R1801820-002	Calcium, Total	N/A		Water	128.74 ppm	50 mL	129000 µg/L	1	400	1000			3/15/18 23:19:40	N	IV
R1801820-002	Iron, Total	N/A		Water	0.86 ppm	50 mL	860 µg/L	1	80	100			3/15/18 23:19:40	N	IV
R1801820-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:19:40	N	IV
R1801820-002	Magnesium, Total	N/A		Water	19.10 ppm	50 mL	19100 µg/L	1	300	1000			3/15/18 23:19:40	N	IV
R1801820-002	Manganesec, Total	N/A		Water	0.80 ppm	50 mL	796 µg/L	1	5	10			3/15/18 23:19:40	N	IV
R1801820-002	Potassium, Total	N/A		Water	3.53 ppm	50 mL	3500 µg/L	1	300	2000			3/15/18 23:19:40	N	IV
R1801820-002	Sodium, Total	N/A		Water	89.97 ppm	50 mL	90000 µg/L	1	400	1000			3/15/18 23:19:40	N	IV
R1801820-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:22:57	N	IV
R1801820-003	Calcium, Total	N/A		Water	127.32 ppm	50 mL	127000 µg/L	1	400	1000			3/15/18 23:22:57	N	IV
R1801820-003	Iron, Total	N/A		Water	0.90 ppm	50 mL	900 µg/L	1	80	100			3/15/18 23:22:57	N	IV
R1801820-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:22:57	N	IV
R1801820-003	Magnesium, Total	N/A		Water	18.91 ppm	50 mL	18900 µg/L	1	300	1000			3/15/18 23:22:57	N	IV
R1801820-003	Manganesec, Total	N/A		Water	0.78 ppm	50 mL	782 µg/L	1	5	10			3/15/18 23:22:57	N	IV
R1801820-003	Potassium, Total	N/A		Water	3.51 ppm	50 mL	3500 µg/L	1	300	2000			3/15/18 23:22:57	N	IV
R1801820-003	Sodium, Total	N/A		Water	88.97 ppm	50 mL	89000 µg/L	1	400	1000			3/15/18 23:22:57	N	IV
R1801851-004	Aluminum, Total	N/A		Water	0.37 ppm	50 mL	370 µg/L	1	100	100			3/15/18 23:26:16	N	IV
R1801851-004	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 23:26:16	N	IV
R1801851-004	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	5 µg/L J	1	4	10			3/15/18 23:26:16	N	IV
R1801851-004	Barium, Total	N/A		Water	1.05 ppm	50 mL	1050 µg/L	1	13	20			3/15/18 23:26:16	N	IV
R1801851-004	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 23:26:16	N	IV
R1801851-004	Boron, Total	N/A		Water	0.03 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 23:26:16	N	IV
R1801851-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:26:16	N	IV
R1801851-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	3	10			3/15/18 23:26:16	N	IV
R1801851-004	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:26:16	N	IV
R1801851-004	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 23:26:16	N	IV
R1801851-004	Iron, Total	N/A		Water	0.36 ppm	50 mL	360 µg/L	1	80	100			3/15/18 23:26:16	N	IV
R1801851-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:26:16	N	IV
R1801851-004	Magnesium, Total	N/A		Water	3.45 ppm	50 mL	3500 µg/L	1	300	1000			3/15/18 23:26:16	N	IV
R1801851-004	Manganesec, Total	N/A		Water	0.01 ppm	50 mL	12 µg/L	1	5	10			3/15/18 23:26:16	N	IV
R1801851-004	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 23:26:16	N	IV
R1801851-004	Potassium, Total	N/A		Water	25.93 ppm	50 mL	25900 µg/L	1	300	2000			3/15/18 23:26:16	N	IV
R1801851-004	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 23:26:16	N	IV
R1801851-004	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 23:26:16	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583873

Method/Testcode: 6010C/Sn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801851-004	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/15/18 23:26:16	N	IV
21801851-004	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	5 µg/L J	1	3	50			3/15/18 23:26:16	N	IV
21801851-004	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 23:26:16	N	IV
21801851-005	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 23:36:12	N	IV
21801851-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 23:36:12	N	IV
21801851-005	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 23:36:12	N	IV
21801851-005	Barium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			3/15/18 23:36:12	N	IV
21801851-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 23:36:12	N	IV
21801851-005	Boron, Total	N/A		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 23:36:12	N	IV
21801851-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:36:12	N	IV
21801851-005	Calcium, Total	N/A		Water	-0.03 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 23:36:12	N	IV
21801851-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 23:36:12	N	IV
21801851-005	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:36:12	N	IV
21801851-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 23:36:12	N	IV
21801851-005	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 23:36:12	N	IV
21801851-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:36:12	N	IV
21801851-005	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 23:36:12	N	IV
21801851-005	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 23:36:12	N	IV
21801851-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 23:36:12	N	IV
21801851-005	Potassium, Total	N/A		Water	0.01 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 23:36:12	N	IV
21801851-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 23:36:12	N	IV
21801851-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 23:36:12	N	IV
21801851-005	Sodium, Total	N/A		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 23:36:12	N	IV
21801851-005	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/15/18 23:36:12	N	IV
21801851-005	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:36:12	N	IV
21801851-005	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 23:36:12	N	IV
21801941-002	Aluminum, Total	N/A		Water	0.09 ppm	50 mL	100 µg/L U	1	100	100			3/15/18 23:39:30	N	II
21801941-002	Antimony, Total	N/A		Water	0.28 ppm	50 mL	275 µg/L	1	8	60			3/15/18 23:39:30	N	II
21801941-002	Arsenic, Total	N/A		Water	1.05 ppm	50 mL	1050 µg/L	1	4	10			3/15/18 23:39:30	N	II
21801941-002	Barium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			3/15/18 23:39:30	N	II
21801941-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 23:39:30	N	II
21801941-002	Boron, Total	N/A		Water	0.06 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 23:39:30	N	II
21801941-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:39:30	N	II
21801941-002	Calcium, Total	N/A		Water	0.11 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 23:39:30	N	II
21801941-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 23:39:30	N	II
21801941-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:39:30	N	II

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583873

Method/Testcode: 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801941-002	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 23:39:30	N	II
21801941-002	Iron, Total	N/A		Water	0.94 ppm	50 mL	940 µg/L	1	80	100			3/15/18 23:39:30	N	II
21801941-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			3/15/18 23:39:30	N	II
21801941-002	Magnesium, Total	N/A		Water	0.07 ppm	50 mL	1000 µg/L U	1	300	1000			3/15/18 23:39:30	N	II
21801941-002	Manganese, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	5	10			3/15/18 23:39:30	N	II
21801941-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 23:39:30	N	II
21801941-002	Potassium, Total	N/A		Water	0.13 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 23:39:30	N	II
21801941-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 23:39:30	N	II
21801941-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 23:39:30	N	II
21801941-002	Sodium, Total	N/A		Water	0.71 ppm	50 mL	1000 µg/L U	1	400	1000			3/15/18 23:39:30	N	II
21801941-002	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/15/18 23:39:30	N	II
21801941-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:39:30	N	II
21801941-002	Zinc, Total	N/A		Water	0.05 ppm	50 mL	51 µg/L	1	7	20			3/15/18 23:39:30	N	II
21801943-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:42:48	N	II
21801943-001	Calcium, Total	N/A		Water	40.14 ppm	50 mL	40100 µg/L	1	400	1000			3/15/18 23:42:48	N	II
21801943-001	Iron, Total	N/A		Water	0.44 ppm	50 mL	440 µg/L	1	80	100			3/15/18 23:42:48	N	II
21801943-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:42:48	N	II
21801943-001	Magnesium, Total	N/A		Water	13.02 ppm	50 mL	13000 µg/L	1	300	1000			3/15/18 23:42:48	N	II
21801943-001	Manganese, Total	N/A		Water	0.05 ppm	50 mL	48 µg/L	1	5	10			3/15/18 23:42:48	N	II
21801943-001	Potassium, Total	N/A		Water	0.77 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 23:42:48	N	II
21801943-001	Sodium, Total	N/A		Water	15.27 ppm	50 mL	15300 µg/L	1	400	1000			3/15/18 23:42:48	N	II
21801944-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:46:07	N	II
21801944-002	Calcium, Total	N/A		Water	29.47 ppm	50 mL	29500 µg/L	1	400	1000			3/15/18 23:46:07	N	II
21801944-002	Iron, Total	N/A		Water	0.36 ppm	50 mL	360 µg/L	1	80	100			3/15/18 23:46:07	N	II
21801944-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:46:07	N	II
21801944-002	Magnesium, Total	N/A		Water	8.96 ppm	50 mL	9000 µg/L	1	300	1000			3/15/18 23:46:07	N	II
21801944-002	Manganese, Total	N/A		Water	0.11 ppm	50 mL	106 µg/L	1	5	10			3/15/18 23:46:07	N	II
21801944-002	Potassium, Total	N/A		Water	0.76 ppm	50 mL	2000 µg/L U	1	300	2000			3/15/18 23:46:07	N	II
21801944-002	Sodium, Total	N/A		Water	13.90 ppm	50 mL	13900 µg/L	1	400	1000			3/15/18 23:46:07	N	II
21801944-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:49:25	N	II
21801944-003	Calcium, Total	N/A		Water	75.81 ppm	50 mL	75800 µg/L	1	400	1000			3/15/18 23:49:25	N	II
21801944-003	Iron, Total	N/A		Water	0.02 ppm	50 mL	100 µg/L U	1	80	100			3/15/18 23:49:25	N	II
21801944-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:49:25	N	II
21801944-003	Magnesium, Total	N/A		Water	27.63 ppm	50 mL	27600 µg/L	1	300	1000			3/15/18 23:49:25	N	II
21801944-003	Manganese, Total	N/A		Water	1.86 ppm	50 mL	1860 µg/L	1	5	10			3/15/18 23:49:25	N	II
21801944-003	Potassium, Total	N/A		Water	2.06 ppm	50 mL	2100 µg/L	1	300	2000			3/15/18 23:49:25	N	II

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583873

Method/Testcode: 6010C/Na T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21801944-003	Sodium, Total	N/A		Water	26.56 ppm	50 mL	26600 µg/L	1	400	1000			3/15/18 23:49:25	N	II
21801944-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:52:45	N	II
21801944-004	Calcium, Total	N/A		Water	32.34 ppm	50 mL	32300 µg/L	1	400	1000			3/15/18 23:52:45	N	II
21801944-004	Iron, Total	N/A		Water	0.23 ppm	50 mL	230 µg/L	1	80	100			3/15/18 23:52:45	N	II
21801944-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/15/18 23:52:45	N	II
21801944-004	Magnesium, Total	N/A		Water	18.82 ppm	50 mL	18800 µg/L	1	300	1000			3/15/18 23:52:45	N	II
21801944-004	Manganese, Total	N/A		Water	0.03 ppm	50 mL	34 µg/L	1	5	10			3/15/18 23:52:45	N	II
21801944-004	Potassium, Total	N/A		Water	2.04 ppm	50 mL	2000 µg/L	1	300	2000			3/15/18 23:52:45	N	II
21801944-004	Sodium, Total	N/A		Water	13.62 ppm	50 mL	13600 µg/L	1	400	1000			3/15/18 23:52:45	N	II
21801944-005	Aluminum, Total	N/A		Water	0.20 ppm	50 mL	200 µg/L	1	100	100			3/15/18 23:56:04	N	II
21801944-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			3/15/18 23:56:04	N	II
21801944-005	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 23:56:04	N	II
21801944-005	Barium, Total	N/A		Water	0.28 ppm	50 mL	280 µg/L	1	13	20			3/15/18 23:56:04	N	II
21801944-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			3/15/18 23:56:04	N	II
21801944-005	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			3/15/18 23:56:04	N	II
21801944-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/15/18 23:56:04	N	II
21801944-005	Calcium, Total	N/A		Water	36.69 ppm	50 mL	36700 µg/L	1	400	1000			3/15/18 23:56:04	N	II
21801944-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/15/18 23:56:04	N	II
21801944-005	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:56:04	N	II
21801944-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			3/15/18 23:56:04	N	II
21801944-005	Iron, Total	N/A		Water	0.29 ppm	50 mL	290 µg/L	1	80	100			3/15/18 23:56:04	N	II
21801944-005	Lead, Total	N/A		Water	0.01 ppm	50 mL	12.1 µg/L	1	3.6	5.0			3/15/18 23:56:04	N	II
21801944-005	Magnesium, Total	N/A		Water	10.41 ppm	50 mL	10400 µg/L	1	300	1000			3/15/18 23:56:04	N	II
21801944-005	Manganese, Total	N/A		Water	0.14 ppm	50 mL	140 µg/L	1	5	10			3/15/18 23:56:04	N	II
21801944-005	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			3/15/18 23:56:04	N	II
21801944-005	Potassium, Total	N/A		Water	4.06 ppm	50 mL	4100 µg/L	1	300	2000			3/15/18 23:56:04	N	II
21801944-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/15/18 23:56:04	N	II
21801944-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/15/18 23:56:04	N	II
21801944-005	Sodium, Total	N/A		Water	14.60 ppm	50 mL	14600 µg/L	1	400	1000			3/15/18 23:56:04	N	II
21801944-005	Tin, Total	N/A		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			3/15/18 23:56:04	N	II
21801944-005	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			3/15/18 23:56:04	N	II
21801944-005	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			3/15/18 23:56:04	N	II
21802040-001	Aluminum, Total	N/A		Water	0.22 ppm	50 mL	0.22 mg/L	1	0.10	0.10			3/15/18 23:59:24	N	IV
21802040-001	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.030 mg/L	1	0.013	0.020			3/15/18 23:59:24	N	IV
21802040-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/15/18 23:59:24	N	IV
21802040-001	Boron, Total	N/A		Water	0.11 ppm	50 mL	0.11 mg/L J	1	0.08	0.20			3/15/18 23:59:24	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583873

Method/Testcode: 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802040-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/15/18 23:59:24	N	IV
21802040-001	Calcium, Total	N/A		Water	136.37 ppm	50 mL	136 mg/L	1	0.4	1.0			3/15/18 23:59:24	N	IV
21802040-001	Chromium, Total	N/A		Water	0.04 ppm	50 mL	0.039 mg/L	1	0.003	0.010			3/15/18 23:59:24	N	IV
21802040-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/15/18 23:59:24	N	IV
21802040-001	Copper, Total	N/A		Water	0.01 ppm	50 mL	0.010 mg/L J	1	0.010	0.020			3/15/18 23:59:24	N	IV
21802040-001	Iron, Total	N/A		Water	0.66 ppm	50 mL	0.66 mg/L	1	0.08	0.10			3/15/18 23:59:24	N	IV
21802040-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/15/18 23:59:24	N	IV
21802040-001	Magnesium, Total	N/A		Water	66.40 ppm	50 mL	66.4 mg/L	1	0.3	1.0			3/15/18 23:59:24	N	IV
21802040-001	Manganese, Total	N/A		Water	0.02 ppm	50 mL	0.015 mg/L	1	0.005	0.010			3/15/18 23:59:24	N	IV
21802040-001	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.011 mg/L J	1	0.004	0.025			3/15/18 23:59:24	N	IV
21802040-001	Nickel, Total	N/A		Water	0.01 ppm	50 mL	0.01 mg/L J	1	0.009	0.040			3/15/18 23:59:24	N	IV
21802040-001	Potassium, Total	N/A		Water	3.33 ppm	50 mL	3.3 mg/L	1	0.3	2.0			3/15/18 23:59:24	N	IV
21802040-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			3/15/18 23:59:24	N	IV
21802040-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/15/18 23:59:24	N	IV
21802040-001	Sodium, Total	N/A		Water	53.48 ppm	50 mL	53.5 mg/L	1	0.4	1.0			3/15/18 23:59:24	N	IV
21802040-001	Strontium, Total	N/A		Water	3.09 ppm	50 mL	3.09 mg/L	1	0.003	0.10			3/15/18 23:59:24	N	IV
21802040-001	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/15/18 23:59:24	N	IV
21802040-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/15/18 23:59:24	N	IV
21802040-001	Zinc, Total	N/A		Water	0.04 ppm	50 mL	0.044 mg/L	1	0.007	0.020			3/15/18 23:59:24	N	IV
21802040-008	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			3/16/18 00:02:42	N	IV
21802040-008	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.035 mg/L	1	0.013	0.020			3/16/18 00:02:42	N	IV
21802040-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/16/18 00:02:42	N	IV
21802040-008	Boron, Total	N/A		Water	0.06 ppm	50 mL	0.20 mg/L U	1	0.08	0.20			3/16/18 00:02:42	N	IV
21802040-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/16/18 00:02:42	N	IV
21802040-008	Calcium, Total	N/A		Water	115.02 ppm	50 mL	115 mg/L	1	0.4	1.0			3/16/18 00:02:42	N	IV
21802040-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.005 mg/L J	1	0.003	0.010			3/16/18 00:02:42	N	IV
21802040-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.003	0.050			3/16/18 00:02:42	N	IV
21802040-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			3/16/18 00:02:42	N	IV
21802040-008	Iron, Total	N/A		Water	1.70 ppm	50 mL	1.70 mg/L	1	0.08	0.10			3/16/18 00:02:42	N	IV
21802040-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/16/18 00:02:42	N	IV
21802040-008	Magnesium, Total	N/A		Water	63.36 ppm	50 mL	63.4 mg/L	1	0.3	1.0			3/16/18 00:02:42	N	IV
21802040-008	Manganese, Total	N/A		Water	0.76 ppm	50 mL	0.758 mg/L	1	0.005	0.010			3/16/18 00:02:42	N	IV
21802040-008	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.007 mg/L J	1	0.004	0.025			3/16/18 00:02:42	N	IV
21802040-008	Nickel, Total	N/A		Water	0.26 ppm	50 mL	0.265 mg/L	1	0.009	0.040			3/16/18 00:02:42	N	IV
21802040-008	Potassium, Total	N/A		Water	3.20 ppm	50 mL	3.2 mg/L	1	0.3	2.0			3/16/18 00:02:42	N	IV
21802040-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			3/16/18 00:02:42	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.



# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot:

583873

Method/Testcode: 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802040-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/16/18 00:02:42	N	IV
21802040-008	Sodium, Total	N/A		Water	37.84 ppm	50 mL	37.8 mg/L	1	0.4	1.0			3/16/18 00:02:42	N	IV
21802040-008	Strontium, Total	N/A		Water	2.39 ppm	50 mL	2.39 mg/L	1	0.003	0.10			3/16/18 00:02:42	N	IV
21802040-008	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/16/18 00:02:42	N	IV
21802040-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 00:02:42	N	IV
21802040-008	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.007	0.020			3/16/18 00:02:42	N	IV
21802040-015	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			3/16/18 00:06:00	N	IV
21802040-015	Barium, Total	N/A		Water	0.03 ppm	50 mL	0.028 mg/L	1	0.013	0.020			3/16/18 00:06:00	N	IV
21802040-015	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/16/18 00:06:00	N	IV
21802040-015	Boron, Total	N/A		Water	0.06 ppm	50 mL	0.20 mg/L U	1	0.08	0.20			3/16/18 00:06:00	N	IV
21802040-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/16/18 00:06:00	N	IV
21802040-015	Calcium, Total	N/A		Water	106.99 ppm	50 mL	107 mg/L	1	0.4	1.0			3/16/18 00:06:00	N	IV
21802040-015	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			3/16/18 00:06:00	N	IV
21802040-015	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.003	0.050			3/16/18 00:06:00	N	IV
21802040-015	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			3/16/18 00:06:00	N	IV
21802040-015	Iron, Total	N/A		Water	0.36 ppm	50 mL	0.36 mg/L	1	0.08	0.10			3/16/18 00:06:00	N	IV
21802040-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/16/18 00:06:00	N	IV
21802040-015	Magnesium, Total	N/A		Water	64.84 ppm	50 mL	64.8 mg/L	1	0.3	1.0			3/16/18 00:06:00	N	IV
21802040-015	Manganese, Total	N/A		Water	0.14 ppm	50 mL	0.136 mg/L	1	0.005	0.010			3/16/18 00:06:00	N	IV
21802040-015	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.007 mg/L J	1	0.004	0.025			3/16/18 00:06:00	N	IV
21802040-015	Nickel, Total	N/A		Water	0.23 ppm	50 mL	0.233 mg/L	1	0.009	0.040			3/16/18 00:06:00	N	IV
21802040-015	Potassium, Total	N/A		Water	3.34 ppm	50 mL	3.3 mg/L	1	0.3	2.0			3/16/18 00:06:00	N	IV
21802040-015	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			3/16/18 00:06:00	N	IV
21802040-015	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/16/18 00:06:00	N	IV
21802040-015	Sodium, Total	N/A		Water	40.07 ppm	50 mL	40.1 mg/L	1	0.4	1.0			3/16/18 00:06:00	N	IV
21802040-015	Strontium, Total	N/A		Water	2.52 ppm	50 mL	2.52 mg/L	1	0.003	0.10			3/16/18 00:06:00	N	IV
21802040-015	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/16/18 00:06:00	N	IV
21802040-015	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.003 mg/L J	1	0.003	0.050			3/16/18 00:06:00	N	IV
21802040-015	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.007	0.020			3/16/18 00:06:00	N	IV
21802040-020	Aluminum, Total	N/A		Water	0.21 ppm	50 mL	0.21 mg/L	1	0.10	0.10			3/16/18 00:15:56	N	IV
21802040-020	Barium, Total	N/A		Water	0.05 ppm	50 mL	0.052 mg/L	1	0.013	0.020			3/16/18 00:15:56	N	IV
21802040-020	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/16/18 00:15:56	N	IV
21802040-020	Boron, Total	N/A		Water	0.62 ppm	50 mL	0.62 mg/L	1	0.08	0.20			3/16/18 00:15:56	N	IV
21802040-020	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/16/18 00:15:56	N	IV
21802040-020	Calcium, Total	N/A		Water	142.99 ppm	50 mL	143 mg/L	1	0.4	1.0			3/16/18 00:15:56	N	IV
21802040-020	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.004 mg/L J	1	0.003	0.010			3/16/18 00:15:56	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583873

Method/Testcode: 6010C/Co T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21802040-020	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 00:15:56	N	IV
21802040-020	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			3/16/18 00:15:56	N	IV
21802040-020	Iron, Total	N/A		Water	0.18 ppm	50 mL	0.18 mg/L	1	0.08	0.10			3/16/18 00:15:56	N	IV
21802040-020	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/16/18 00:15:56	N	IV
21802040-020	Magnesium, Total	N/A		Water	95.18 ppm	50 mL	95.2 mg/L	1	0.3	1.0			3/16/18 00:15:56	N	IV
21802040-020	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.005	0.010			3/16/18 00:15:56	N	IV
21802040-020	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.011 mg/L J	1	0.004	0.025			3/16/18 00:15:56	N	IV
21802040-020	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			3/16/18 00:15:56	N	IV
21802040-020	Potassium, Total	N/A		Water	4.43 ppm	50 mL	4.4 mg/L	1	0.3	2.0			3/16/18 00:15:56	N	IV
21802040-020	Selenium, Total	N/A		Water	0.01 ppm	50 mL	0.009 mg/L J	1	0.004	0.010			3/16/18 00:15:56	N	IV
21802040-020	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/16/18 00:15:56	N	IV
21802040-020	Sodium, Total	N/A		Water	131.10 ppm	50 mL	131 mg/L	1	0.4	1.0			3/16/18 00:15:56	N	IV
21802040-020	Strontium, Total	N/A		Water	5.02 ppm	50 mL	5.02 mg/L	1	0.003	0.10			3/16/18 00:15:56	N	IV
21802040-020	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/16/18 00:15:56	N	IV
21802040-020	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 00:15:56	N	IV
21802040-020	Zinc, Total	N/A		Water	0.01 ppm	50 mL	0.020 mg/L U	1	0.007	0.020			3/16/18 00:15:56	N	IV
21802040-021	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			3/16/18 00:19:15	N	IV
21802040-021	Barium, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.013	0.020			3/16/18 00:19:15	N	IV
21802040-021	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			3/16/18 00:19:15	N	IV
21802040-021	Boron, Total	N/A		Water	0.01 ppm	50 mL	0.20 mg/L U	1	0.08	0.20			3/16/18 00:19:15	N	IV
21802040-021	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			3/16/18 00:19:15	N	IV
21802040-021	Calcium, Total	N/A		Water	0.01 ppm	50 mL	1.0 mg/L U	1	0.4	1.0			3/16/18 00:19:15	N	IV
21802040-021	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			3/16/18 00:19:15	N	IV
21802040-021	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 00:19:15	N	IV
21802040-021	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			3/16/18 00:19:15	N	IV
21802040-021	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.08	0.10			3/16/18 00:19:15	N	IV
21802040-021	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			3/16/18 00:19:15	N	IV
21802040-021	Magnesium, Total	N/A		Water	0.02 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			3/16/18 00:19:15	N	IV
21802040-021	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.005	0.010			3/16/18 00:19:15	N	IV
21802040-021	Molybdenum, Total	N/A		Water	0.00 ppm	50 mL	0.025 mg/L U	1	0.004	0.025			3/16/18 00:19:15	N	IV
21802040-021	Nickel, Total	N/A		Water	0.00 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			3/16/18 00:19:15	N	IV
21802040-021	Potassium, Total	N/A		Water	0.00 ppm	50 mL	2.0 mg/L U	1	0.3	2.0			3/16/18 00:19:15	N	IV
21802040-021	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			3/16/18 00:19:15	N	IV
21802040-021	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			3/16/18 00:19:15	N	IV
21802040-021	Sodium, Total	N/A		Water	0.05 ppm	50 mL	1.0 mg/L U	1	0.4	1.0			3/16/18 00:19:15	N	IV
21802040-021	Strontium, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.003	0.10			3/16/18 00:19:15	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-JCP-AES-06

Analyst: CKUTZER

Analysis Lot:

583873

Method/Testcode: 6010C/Sn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1802040-021	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			3/16/18 00:19:15	N	IV
R1802040-021	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			3/16/18 00:19:15	N	IV
R1802040-021	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.007	0.020			3/16/18 00:19:15	N	IV
R1802055-001	Boron, Total	N/A		Water	1.50 ppm	50 mL	15000 µg/L	10	800	2000			3/16/18 00:22:33	N	II
R1802055-001	Potassium, Total	N/A		Water	91.55 ppm	50 mL	915000 µg/L	10	3000	20000			3/16/18 00:22:33	N	II
R1802055-002	Boron, Total	N/A		Water	3.96 ppm	50 mL	39600 µg/L	10	800	2000			3/16/18 00:25:52	N	II
R1802055-002	Calcium, Total	N/A		Water	32.42 ppm	50 mL	324000 µg/L	10	4000	10000			3/16/18 00:25:52	N	II
R1802055-001	Aluminum, Total	N/A		Water	1.09 ppm	50 mL	1090 µg/L	1	100	100			3/16/18 00:29:11	N	II
R1802055-001	Barium, Total	N/A		Water	1.39 ppm	50 mL	1390 µg/L	1	13	20			3/16/18 00:29:11	N	II
R1802055-001	Calcium, Total	N/A		Water	134.71 ppm	50 mL	135000 µg/L	1	400	1000			3/16/18 00:29:11	N	II
R1802055-001	Iron, Total	N/A		Water	5.50 ppm	50 mL	5500 µg/L	1	80	100			3/16/18 00:29:11	N	II
R1802055-001	Magnesium, Total	N/A		Water	144.53 ppm	50 mL	145000 µg/L	1	300	1000			3/16/18 00:29:11	N	II
R1802055-001	Manganese, Total	N/A		Water	0.20 ppm	50 mL	195 µg/L	1	5	10			3/16/18 00:29:11	N	II
R1802055-001	Strontium, Total	N/A		Water	1.76 ppm	50 mL	1760 µg/L	1	3	100			3/16/18 00:29:11	N	II
R1802055-002	Aluminum, Total	N/A		Water	1.95 ppm	50 mL	1950 µg/L	1	100	100			3/16/18 00:32:29	N	II
R1802055-002	Barium, Total	N/A		Water	1.28 ppm	50 mL	1280 µg/L	1	13	20			3/16/18 00:32:29	N	II
R1802055-002	Iron, Total	N/A		Water	11.48 ppm	50 mL	11500 µg/L	1	80	100			3/16/18 00:32:29	N	II
R1802055-002	Magnesium, Total	N/A		Water	384.51 ppm	50 mL	385000 µg/L	1	300	1000			3/16/18 00:32:29	N	II
R1802055-002	Manganese, Total	N/A		Water	0.46 ppm	50 mL	464 µg/L	1	5	10			3/16/18 00:32:29	N	II
R1802055-002	Strontium, Total	N/A		Water	4.31 ppm	50 mL	4310 µg/L	1	3	100			3/16/18 00:32:29	N	II
R1802137-002	Barium, Total	N/A		Water	0.14 ppm	50 mL	138 µg/L	1	13	20			3/16/18 00:35:47	Y	IV
R1802137-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 00:35:47	Y	IV
R1802137-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 00:35:47	Y	IV
R1802137-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 00:35:47	Y	IV
R1802137-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 00:35:47	Y	IV
R1802137-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 00:35:47	Y	IV
RQ1802244-05	Barium, Total	MS	R1802137-002	Water	2.11 ppm	50 mL	2110 µg/L	1	13	20	99		3/16/18 00:39:07	N	IV
RQ1802244-05	Cadmium, Total	MS	R1802137-002	Water	0.05 ppm	50 mL	48.0 µg/L	1	0.9	5.0	96		3/16/18 00:39:07	N	IV
RQ1802244-05	Chromium, Total	MS	R1802137-002	Water	0.20 ppm	50 mL	197 µg/L	1	3	10	99		3/16/18 00:39:07	N	IV
RQ1802244-05	Lead, Total	MS	R1802137-002	Water	0.49 ppm	50 mL	488 µg/L	1	4	50	98		3/16/18 00:39:07	N	IV
RQ1802244-05	Selenium, Total	MS	R1802137-002	Water	1.07 ppm	50 mL	1070 µg/L	1	4	10	106		3/16/18 00:39:07	N	IV
RQ1802244-05	Silver, Total	MS	R1802137-002	Water	0.05 ppm	50 mL	51 µg/L	1	2	10	102		3/16/18 00:39:07	N	IV
RQ1802244-06	Barium, Total	DMS	R1802137-002	Water	2.15 ppm	50 mL	2150 µg/L	1	13	20	101	2	3/16/18 00:42:25	N	IV
RQ1802244-06	Cadmium, Total	DMS	R1802137-002	Water	0.05 ppm	50 mL	49.0 µg/L	1	0.9	5.0	98	2	3/16/18 00:42:25	N	IV
RQ1802244-06	Chromium, Total	DMS	R1802137-002	Water	0.20 ppm	50 mL	200 µg/L	1	3	10	100	2	3/16/18 00:42:25	N	IV
RQ1802244-06	Lead, Total	DMS	R1802137-002	Water	0.50 ppm	50 mL	497 µg/L	1	4	50	99	2	3/16/18 00:42:25	N	IV

† indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-ICP-AES-06

Analyst: CKUTZER

Analysis Lot: 583873 Method/Testcode: 6010C/Se T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802244-06	Selenium, Total	DMS	R1802137-002	Water	1.08 ppm	50 mL	1080 µg/L	1	4	10	107	<1	3/16/18 00:42:25	N	IV
RQ1802244-06	Silver, Total	DMS	R1802137-002	Water	0.05 ppm	50 mL	52 µg/L	1	2	10	103	1	3/16/18 00:42:25	N	IV
R1802137-008	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 00:59:03	N	IV
R1802137-008	Barium, Total	N/A		Water	0.08 ppm	50 mL	78 µg/L	1	13	20			3/16/18 00:59:03	N	IV
R1802137-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			3/16/18 00:59:03	N	IV
R1802137-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			3/16/18 00:59:03	N	IV
R1802137-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			3/16/18 00:59:03	N	IV
R1802137-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			3/16/18 00:59:03	N	IV
R1802137-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			3/16/18 00:59:03	N	IV

U indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Metals Cover Page

Analyst: NM

Date: 3/15/18

Instrument: FIMSII

Data File: NARIS-W

Reviewed By: NM

Entered By: NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
583752	Hg	309923	245.1/7470A		
583753	Hg	309987	7470A TCD		
583754	Hg	309924	7470A		

## Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

Perkin Elmer FIMS Run Log

Serial number: 101S12110203

Analyst: NM

Data File: MARNL-W  
NM 3/15/18

Date Prepped: 3/14/18

Date Analyzed: 3/15/18

Lot #: Calibration/CRDL Source Standard: M76000010

ICV/CCV/LCS/MS Source Standard: M76000010

Cal/ CRDL 10ppm stock: M7590091A

ICV/CCV/LCS/MS 10ppm stock: M7590091A

Cal/ CRDL 0.1ppm stock: M7590091D

ICV/CCV/LCS/MS 0.1 ppm stock: M7590091D

Pipet ID: M26, M31

DOD Pipet Verification: M7710011

1	Calib Blank	38	PBW-309923	67	PBW-309924
2	0.2ppb std	39	LCSW-309923	68	LCSW-309924
3	0.5ppb std	40	R1801927-001	69	R1802078-002
4	1.0ppb std	41	R1801927-002	70	R1802078-004
5	2.0ppb std	42	R1801927-003	71	R1802078-006
6	5.0ppb std	43	R1801927-004	72	R1802078-008
7	10.0ppb std	44	R1801927-008	8	CCV
8	ICV	45	R1801927-009	1	CCB
1	ICB	8	CCV	73	R1802078-010
2	MRL	1	CCB	74	R1802078-012
8	CCV	46	R1801927-010	75	R1802078-014
1	CCB	47	R1801927-011	76	R1802078-016
		48	R1801927-011S	77	R1802078-018
		49	R1801927-011SD	8	CCV
		50	R1801927-012	1	CCB
		51	R1801927-013	78	R1802078-020
		52	R1801927-014	79	R1802078-022
		8	CCV	80	R1802078-024
		1	CCB	81	R1802078-026
		53	R1801941-002	82	R1802078-028
		54	R1802053-001	83	R1802078-030
		55	R1802137-002	8	CCV
		56	R1802137-002S	1	CCB
		57	R1802137-002SD	84	R1802078-032
		58	R1802137-008	85	R1802078-034
		59	R1802172-001	86	R1802078-034S
		8	CCV	87	R1802078-034SD
		1	CCB	88	R1802078-036
		60	R1802172-002	89	R1802078-038
		61	TCLP MB	2	MRL
		62	R1801855-001	8	CCV
		63	R1801855-001S	1	CCB
		64	R1801855-001SD	90	Sample090
		65	R1801855-002		
		66	R1801855-003		
		2	MRL		
		8	CCV		
		1	CCB		

*NM*  
*3/15/18*



2 [1.0] 0.0128 0.0492 0.0129 12:42:38 PM Yes  
 Mean: [1.0] 0.0128  
 SD: 0.000 0.0000  
 %RSD: 0.00% 0.09  
 Standard number 3 applied. [1.0]  
 Correlation Coef.: 0.999931 Slope: 0.01276 Intercept: 0.00000

Sequence No.: 5 Autosampler Location: 5  
 Sample ID: 2.0ppb std Date Collected: 3/15/2018 12:42:58 PM  
 Analyst: Data Type: Original

Replicate Data: 2.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[2.0]	[2.0]	0.0254	0.0955	0.0254	12:43:49 PM	Yes
2	[2.0]	[2.0]	0.0253	0.0949	0.0253	12:44:18 PM	Yes
Mean:	[2.0]	[2.0]	0.0253				
SD:	0.000	0.000	0.0001				
%RSD:	0.00%	0.00%	0.31				

Standard number 4 applied. [2.0]  
 Correlation Coef.: 0.999969 Slope: 0.01268 Intercept: 0.00000

Sequence No.: 6 Autosampler Location: 6  
 Sample ID: 5.0ppb std Date Collected: 3/15/2018 12:44:38 PM  
 Analyst: Data Type: Original

Replicate Data: 5.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[5.0]	[5.0]	0.0633	0.2394	0.0634	12:45:27 PM	Yes
2	[5.0]	[5.0]	0.0632	0.2387	0.0632	12:45:56 PM	Yes
Mean:	[5.0]	[5.0]	0.0633				
SD:	0.000	0.000	0.0001				
%RSD:	0.00%	0.00%	0.18				

Standard number 5 applied. [5.0]  
 Correlation Coef.: 0.999996 Slope: 0.01266 Intercept: 0.00000

Sequence No.: 7 Autosampler Location: 7  
 Sample ID: 10.0ppb std Date Collected: 3/15/2018 12:46:14 PM  
 Analyst: Data Type: Original

Replicate Data: 10.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	[10.0]	[10.0]	0.1251	0.4751	0.1252	12:47:03 PM	Yes
2	[10.0]	[10.0]	0.1258	0.4774	0.1259	12:47:32 PM	Yes
Mean:	[10.0]	[10.0]	0.1255				
SD:	0.000	0.000	0.0005				
%RSD:	0.00%	0.00%	0.40				

Standard number 6 applied. [10.0]  
 Correlation Coef.: 0.999987 Slope: 0.01257 Intercept: 0.00000

## Calibration data for Hg 253.7

Equation: Linear Through Zero

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.000	0.00	0.85
0.2ppb std	0.0025	0.2	0.199	0.00	0.82
0.5ppb std	0.0063	0.5	0.503	0.00	0.53
1.0ppb std	0.0128	1.0	1.018	0.00	0.09
2.0ppb std	0.0253	2.0	2.013	0.00	0.31
5.0ppb std	0.0633	5.0	5.032	0.00	0.18
10.0ppb std	0.1255	10.0	9.979	0.00	0.40

Correlation Coef.: 0.999987 Slope: 0.01257 Intercept: 0.00000



Sequence No.: 8  
Sample ID: ICV  
Analyst:

Autosampler Location: 8  
Date Collected: 3/15/2018 12:47:51 PM  
Data Type: Original

## Replicate Data: ICV

Analyte: Hg 253.7

Repl #	Sample Conc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.970	2.970	0.0373	0.1408	0.0374	12:48:41 PM	Yes
2	2.978	2.978	0.0374	0.1412	0.0375	12:49:10 PM	Yes
Mean:	2.974	2.974	0.0374				
SD:	0.0059	0.0059	0.0001				
%RSD:	0.20%	0.20%	0.20				

QC value within limits for Hg 253.7 Recovery = 99.14%

All analyte(s) passed QC.

Sequence No.: 9  
Sample ID: ICB  
Analyst:

Autosampler Location: 1  
Date Collected: 3/15/2018 12:49:29 PM  
Data Type: Original

## Replicate Data: ICB

Analyte: Hg 253.7

Repl #	Sample Conc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0004	0.0001	12:50:18 PM	Yes
2	0.001	0.001	0.0000	0.0006	0.0001	12:50:47 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0003	0.0003	0.0000				
%RSD:	24.66%	24.66%	24.66				

QC value within limits for Hg 253.7 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10  
Sample ID: MRL  
Analyst:

Autosampler Location: 2  
Date Collected: 3/15/2018 12:51:06 PM  
Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl #	Sample Conc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.204	0.204	0.0026	0.0101	0.0026	12:51:55 PM	Yes
2	0.206	0.206	0.0026	0.0103	0.0027	12:52:24 PM	Yes
Mean:	0.205	0.205	0.0026				
SD:	0.0017	0.0017	0.0000				
%RSD:	0.85%	0.85%	0.85				

QC value within limits for Hg 253.7 Recovery = 102.47%

All analyte(s) passed QC.

Sequence No.: 11  
Sample ID: CCV  
Analyst:

Autosampler Location: 8  
Date Collected: 3/15/2018 12:52:42 PM  
Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	Sample Conc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.988	2.988	0.0376	0.1421	0.0376	12:53:32 PM	Yes
2	2.992	2.992	0.0376	0.1424	0.0377	12:54:01 PM	Yes
Mean:	2.990	2.990	0.0376				
SD:	0.0021	0.0021	0.0000				
%RSD:	0.07%	0.07%	0.07				

QC value within limits for Hg 253.7 Recovery = 99.67%

All analyte(s) passed QC.

Sequence No.: 12  
Sample ID: CCB  
Analyst:

Autosampler Location: 1  
Date Collected: 3/15/2018 12:54:20 PM  
Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0000	0.0009	0.0001	12:55:11 PM	Yes
2	0.003	0.003	0.0000	0.0004	0.0001	12:55:40 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0007	0.0007	0.0000				
%RSD:	20.54%	20.54%	20.54				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 13

Autosampler Location: 38

Sample ID: PBW-309923

Date Collected: 3/15/2018 12:55:58 PM

Analyst:

Data Type: Original

## Replicate Data: PBW-309923

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0001	0.0001	12:56:48 PM	Yes
2	0.002	0.002	0.0000	0.0004	0.0001	12:57:17 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0002	0.0002	0.0000				
%RSD:	10.76%	10.76%	10.76				

Sequence No.: 14

Autosampler Location: 39

Sample ID: LCSW-309923

Date Collected: 3/15/2018 12:57:36 PM

Analyst:

Data Type: Original

## Replicate Data: LCSW-309923

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.031	1.031	0.0130	0.0487	0.0130	12:58:26 PM	Yes
2	1.040	1.040	0.0131	0.0491	0.0131	12:58:55 PM	Yes
Mean:	1.036	1.036	0.0130				
SD:	0.0059	0.0059	0.0001				
%RSD:	0.57%	0.57%	0.57				

Sequence No.: 15

Autosampler Location: 40

Sample ID: R1801927-001

Date Collected: 3/15/2018 12:59:14 PM

Analyst:

Data Type: Original

## Replicate Data: R1801927-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0007	0.0001	1:00:04 PM	Yes
2	0.002	0.002	0.0000	0.0005	0.0001	1:00:33 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0009	0.0009	0.0000				
%RSD:	37.10%	37.10%	37.10				

Sequence No.: 16

Autosampler Location: 41

Sample ID: R1801927-002

Date Collected: 3/15/2018 1:00:52 PM

Analyst:

Data Type: Original

## Replicate Data: R1801927-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0010	0.0001	1:01:42 PM	Yes
2	-0.001	-0.001	-0.0000	0.0002	0.0000	1:02:10 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0044	0.0044	0.0001				
%RSD:	219.34%	219.34%	219.34				

Sequence No.: 17  
 Sample ID: R1801927-003  
 Analyst:

Autosampler Location: 42  
 Date Collected: 3/15/2018 1:02:30 PM  
 Data Type: Original

Replicate Data: R1801927-003

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	0.0003	0.0001	1:03:20 PM	Yes
2	-0.002	-0.002	-0.0000	-0.0001	0.0000	1:03:49 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0011	0.0011	0.0000				
%RSD:	134.57%	134.57%	134.57				

Sequence No.: 18  
 Sample ID: R1801927-004  
 Analyst:

Autosampler Location: 43  
 Date Collected: 3/15/2018 1:04:08 PM  
 Data Type: Original

Replicate Data: R1801927-004

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0003	0.0001	1:04:58 PM	Yes
2	-0.001	-0.001	-0.0000	-0.0002	0.0001	1:05:27 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0013	0.0013	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 19  
 Sample ID: R1801927-008  
 Analyst:

Autosampler Location: 44  
 Date Collected: 3/15/2018 1:05:46 PM  
 Data Type: Original

Replicate Data: R1801927-008

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0008	0.0001	1:06:35 PM	Yes
2	-0.003	-0.003	-0.0000	-0.0007	0.0000	1:07:04 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0056	0.0056	0.0001				
%RSD:	939.93%	939.93%	939.93				

Sequence No.: 20  
 Sample ID: R1801927-009  
 Analyst:

Autosampler Location: 45  
 Date Collected: 3/15/2018 1:07:23 PM  
 Data Type: Original

Replicate Data: R1801927-009

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	-0.0001	0.0000	1:08:14 PM	Yes
2	0.002	0.002	0.0000	0.0004	0.0001	1:08:42 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0030	0.0030	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 21  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/15/2018 1:09:01 PM  
 Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.008	3.008	0.0378	0.1418	0.0379	1:09:51 PM	Yes
2	3.013	3.013	0.0379	0.1430	0.0380	1:10:20 PM	Yes

Mean: 3.011 / 3.011 0.0379  
 SD: 0.0042 0.0042 0.0001  
 %RSD: 0.14% 0.14% 0.14

QC value within limits for Hg 253.7 Recovery = 100.35%  
 All analyte(s) passed QC.

Sequence No.: 22  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 3/15/2018 1:10:40 PM  
 Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0003	0.0001	1:11:29 PM	Yes
2	0.005	0.005	0.0001	0.0008	0.0001	1:11:58 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0017	0.0017	0.0000				
%RSD:	50.78%	50.78%	50.78				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 23  
 Sample ID: R1801927-010  
 Analyst:

Autosampler Location: 46  
 Date Collected: 3/15/2018 1:12:17 PM  
 Data Type: Original

Replicate Data: R1801927-010

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	0.0000	0.0001	1:13:07 PM	Yes
2	0.002	0.002	0.0000	0.0003	0.0001	1:13:36 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0018	0.0018	0.0000				
%RSD:	183.15%	183.15%	183.15				

Sequence No.: 24  
 Sample ID: R1801927-011  
 Analyst:

Autosampler Location: 47  
 Date Collected: 3/15/2018 1:13:55 PM  
 Data Type: Original

Replicate Data: R1801927-011

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0000	0.0004	0.0001	1:14:46 PM	Yes
2	0.000	0.000	0.0000	0.0002	0.0001	1:15:15 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0023	0.0023	0.0000				
%RSD:	121.40%	121.40%	121.40				

Sequence No.: 25  
 Sample ID: R1801927-011S  
 Analyst:

Autosampler Location: 48  
 Date Collected: 3/15/2018 1:15:34 PM  
 Data Type: Original

Replicate Data: R1801927-011S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.053	1.053	0.0132	0.0493	0.0133	1:16:25 PM	Yes
2	1.056	1.056	0.0133	0.0500	0.0133	1:16:54 PM	Yes
Mean:	1.055	1.055	0.0133				
SD:	0.0021	0.0021	0.0000				
%RSD:	0.20%	0.20%	0.20				

Sequence No.: 26  
 Sample ID: R1801927-011SD  
 Analyst:

Autosampler Location: 49  
 Date Collected: 3/15/2018 1:17:14 PM  
 Data Type: Original

## Replicate Data: R1801927-011SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.058	1.058	0.0133	0.0504	0.0134	1:18:06 PM	Yes
2	1.078	1.078	0.0135	0.0498	0.0136	1:18:35 PM	Yes
Mean:	1.068	1.068	0.0134				
SD:	0.0137	0.0137	0.0002				
%RSD:	1.28%	1.28%	1.28				

Sequence No.: 27

Autosampler Location: 50

Sample ID: R1801927-012

Date Collected: 3/15/2018 1:18:55 PM

Analyst:

Data Type: Original

## Replicate Data: R1801927-012

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0003	0.0001	1:19:45 PM	Yes
2	-0.004	-0.004	-0.0000	-0.0008	0.0000	1:20:13 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0035	0.0035	0.0000				
%RSD:	267.27%	267.27%	267.27				

Sequence No.: 28

Autosampler Location: 51

Sample ID: R1801927-013

Date Collected: 3/15/2018 1:20:33 PM

Analyst:

Data Type: Original

## Replicate Data: R1801927-013

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0000	0.0001	1:21:23 PM	Yes
2	0.002	0.002	0.0000	0.0006	0.0001	1:21:51 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0007	0.0007	0.0000				
%RSD:	34.55%	34.55%	34.55				

Sequence No.: 29

Autosampler Location: 52

Sample ID: R1801927-014

Date Collected: 3/15/2018 1:22:11 PM

Analyst:

Data Type: Original

## Replicate Data: R1801927-014

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0004	0.0001	1:23:00 PM	Yes
2	0.000	0.000	0.0000	-0.0000	0.0001	1:23:29 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0004	0.0004	0.0000				
%RSD:	66.60%	66.60%	66.60				

Sequence No.: 30

Autosampler Location: 8

Sample ID: CCV

Date Collected: 3/15/2018 1:23:49 PM

Analyst:

Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.049	3.049	0.0383	0.1427	0.0384	1:24:38 PM	Yes
2	3.045	3.045	0.0383	0.1419	0.0384	1:25:07 PM	Yes
Mean:	3.047	3.047	0.0383				
SD:	0.0026	0.0026	0.0000				
%RSD:	0.09%	0.09%	0.09				

QC value within limits for Hg 253.7 Recovery = 101.57%  
All analyte(s) passed QC.

Sequence No.: 31  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 3/15/2018 1:25:27 PM  
 Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	0.0000	0.0001	1:26:16 PM	Yes
2	-0.001	-0.001	-0.0000	-0.0000	0.0001	1:26:45 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0003	0.0003	0.0000				
%RSD:	45.25%	45.25%	45.25				

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 32  
 Sample ID: R1801941-002  
 Analyst:

Autosampler Location: 53  
 Date Collected: 3/15/2018 1:27:03 PM  
 Data Type: Original

## Replicate Data: R1801941-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.337	0.337	0.0042	0.0158	0.0043	1:27:53 PM	Yes
2	0.340	0.340	0.0043	0.0156	0.0043	1:28:22 PM	Yes
Mean:	0.338	0.338	0.0043				
SD:	0.0021	0.0021	0.0000				
%RSD:	0.62%	0.62%	0.62				

Sequence No.: 33  
 Sample ID: R1802053-001  
 Analyst:

Autosampler Location: 54  
 Date Collected: 3/15/2018 1:28:42 PM  
 Data Type: Original

## Replicate Data: R1802053-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	-0.0003	0.0001	1:29:32 PM	Yes
2	0.001	0.001	0.0000	-0.0001	0.0001	1:30:01 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0009	0.0009	0.0000				
%RSD:	590.26%	590.26%	590.26				

Sequence No.: 34  
 Sample ID: R1802137-002  
 Analyst:

Autosampler Location: 55  
 Date Collected: 3/15/2018 1:30:20 PM  
 Data Type: Original

## Replicate Data: R1802137-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	-0.0001	0.0001	1:31:11 PM	Yes
2	0.001	0.001	0.0000	0.0002	0.0001	1:31:40 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0010	0.0010	0.0000				
%RSD:	226.42%	226.42%	226.42				

Sequence No.: 35  
 Sample ID: R1802137-002S  
 Analyst:

Autosampler Location: 56  
 Date Collected: 3/15/2018 1:31:59 PM  
 Data Type: Original

## Replicate Data: R1802137-002S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	1.045	1.045	0.0131	0.0477	0.0132	1:32:49 PM	Yes
2	1.038	1.038	0.0130	0.0482	0.0131	1:33:19 PM	Yes
Mean:	1.041	1.041	0.0131				
SD:	0.0056	0.0056	0.0001				
%RSD:	0.53%	0.53%	0.53				

Sequence No.: 36  
 Sample ID: R1802137-002SD  
 Analyst:

Autosampler Location: 57  
 Date Collected: 3/15/2018 1:33:38 PM  
 Data Type: Original

Replicate Data: R1802137-002SD  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.023	1.023	0.0129	0.0480	0.0129	1:34:28 PM	Yes
2	1.021	1.021	0.0128	0.0466	0.0129	1:34:57 PM	Yes
Mean:	1.022	1.022	0.0128				
SD:	0.0016	0.0016	0.0000				
%RSD:	0.15%	0.15%	0.15				

Sequence No.: 37  
 Sample ID: R1802137-008  
 Analyst:

Autosampler Location: 58  
 Date Collected: 3/15/2018 1:35:16 PM  
 Data Type: Original

Replicate Data: R1802137-008  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	0.0001	0.0001	1:36:06 PM	Yes
2	0.001	0.001	0.0000	0.0003	0.0001	1:36:35 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0009	0.0009	0.0000				
%RSD:	106.00%	106.00%	106.00				

Sequence No.: 38  
 Sample ID: R1802172-001  
 Analyst:

Autosampler Location: 59  
 Date Collected: 3/15/2018 1:36:55 PM  
 Data Type: Original

Replicate Data: R1802172-001  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0004	0.0001	1:37:45 PM	Yes
2	0.004	0.004	0.0001	0.0006	0.0001	1:38:14 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0014	0.0014	0.0000				
%RSD:	41.03%	41.03%	41.03				

Sequence No.: 39  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/15/2018 1:38:34 PM  
 Data Type: Original

Replicate Data: CCV  
 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.060	3.060	0.0385	0.1414	0.0385	1:39:24 PM	Yes
2	3.070	3.070	0.0386	0.1422	0.0387	1:39:52 PM	Yes
Mean:	3.065	3.065	0.0385				
SD:	0.0077	0.0077	0.0001				
%RSD:	0.25%	0.25%	0.25				

QC value within limits for Hg 253.7 Recovery = 102.17%  
 All analyte(s) passed QC.

Sequence No.: 40  
 Sample ID: CCB  
 Analyst:

Autosampler Location: 1  
 Date Collected: 3/15/2018 1:40:12 PM  
 Data Type: Original

-----  
Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	-0.0001	0.0001	1:41:02 PM	Yes
2	0.001	0.001	0.0000	0.0002	0.0001	1:41:30 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0006	0.0006	0.0000				
%RSD:	64.05%	64.05%	64.05				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

-----  
Sequence No.: 41

Autosampler Location: 60

Sample ID: R1802172-002

Date Collected: 3/15/2018 1:41:49 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1802172-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0002	0.0001	1:42:39 PM	Yes
2	-0.000	-0.000	-0.0000	0.0001	0.0001	1:43:08 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0014	0.0014	0.0000				
%RSD:	194.82%	194.82%	194.82				

-----  
Sequence No.: 42

Autosampler Location: 61

Sample ID: TCLP MB

Date Collected: 3/15/2018 1:43:28 PM

Analyst:

Data Type: Original

-----  
Replicate Data: TCLP MB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	-0.0003	0.0001	1:44:18 PM	Yes
2	0.005	0.005	0.0001	0.0007	0.0001	1:44:47 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0035	0.0035	0.0000				
%RSD:	155.94%	155.94%	155.94				

-----  
Sequence No.: 43

Autosampler Location: 62

Sample ID: R1801855-001

Date Collected: 3/15/2018 1:45:07 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801855-001

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.0001	0.0003	0.0002	1:45:58 PM	Yes
2	0.012	0.012	0.0002	0.0007	0.0002	1:46:27 PM	Yes
Mean:	0.011	0.011	0.0001				
SD:	0.0009	0.0009	0.0000				
%RSD:	7.57%	7.57%	7.57				

-----  
Sequence No.: 44

Autosampler Location: 63

Sample ID: R1801855-001S

Date Collected: 3/15/2018 1:46:46 PM

Analyst:

Data Type: Original

-----  
Replicate Data: R1801855-001S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.079	1.079	0.0136	0.0495	0.0136	1:47:36 PM	Yes
2	1.086	1.086	0.0137	0.0500	0.0137	1:48:06 PM	Yes
Mean:	1.083	1.083	0.0136				
SD:	0.0054	0.0054	0.0001				
%RSD:	0.50%	0.50%	0.50				



Sequence No.: 45  
 Sample ID: R1801855-001SD  
 Analyst:

Autosampler Location: 64  
 Date Collected: 3/15/2018 1:48:26 PM  
 Data Type: Original

## Replicate Data: R1801855-001SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.076	1.076	0.0135	0.0497	0.0136	1:49:16 PM	Yes
2	1.077	1.077	0.0135	0.0488	0.0136	1:49:45 PM	Yes
Mean:	1.077	1.077	0.0135				
SD:	0.0011	0.0011	0.0000				
%RSD:	0.11%	0.11%	0.11				

Sequence No.: 46  
 Sample ID: R1801855-002  
 Analyst:

Autosampler Location: 65  
 Date Collected: 3/15/2018 1:50:05 PM  
 Data Type: Original

## Replicate Data: R1801855-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	-0.0002	0.0001	1:50:55 PM	Yes
2	0.009	0.009	0.0001	0.0007	0.0002	1:51:24 PM	Yes
Mean:	0.007	0.007	0.0001				
SD:	0.0030	0.0030	0.0000				
%RSD:	43.09%	43.09%	43.09				

Sequence No.: 47  
 Sample ID: R1801855-003  
 Analyst:

Autosampler Location: 66  
 Date Collected: 3/15/2018 1:51:44 PM  
 Data Type: Original

## Replicate Data: R1801855-003

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.032	0.032	0.0004	0.0018	0.0005	1:52:34 PM	Yes
2	0.032	0.032	0.0004	0.0015	0.0005	1:53:03 PM	Yes
Mean:	0.032	0.032	0.0004				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.12%	0.12%	0.12				

Sequence No.: 48  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 3/15/2018 1:53:22 PM  
 Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.206	0.206	0.0026	0.0097	0.0027	1:54:12 PM	Yes
2	0.213	0.213	0.0027	0.0099	0.0027	1:54:41 PM	Yes
Mean:	0.210	0.210	0.0026				
SD:	0.0048	0.0048	0.0001				
%RSD:	2.28%	2.28%	2.28				

QC value within limits for Hg 253.7 Recovery = 104.80%  
 All analyte(s) passed QC.

Sequence No.: 49  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/15/2018 1:55:00 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	3.064	3.064	0.0385	0.1428	0.0386	1:55:49 PM	Yes
2	3.094	3.094	0.0389	0.1424	0.0390	1:56:19 PM	Yes
Mean:	3.079	3.079	0.0387				
SD:	0.0207	0.0207	0.0003				
%RSD:	0.67%	0.67%	0.67				

QC value within limits for Hg 253.7 Recovery = 102.63%  
All analyte(s) passed QC.

Sequence No.: 50

Autosampler Location: 1

Sample ID: CCB

Date Collected: 3/15/2018 1:56:38 PM

Analyst:

Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0001	0.0001	1:57:27 PM	Yes
2	0.000	0.000	0.0000	0.0004	0.0001	1:57:56 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0011	0.0011	0.0000				
%RSD:	135.24%	135.24%	135.24				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 51

Autosampler Location: 67

Sample ID: PBW-309924

Date Collected: 3/15/2018 1:58:14 PM

Analyst:

Data Type: Original

Replicate Data: PBW-309924

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0003	0.0001	1:59:04 PM	Yes
2	0.000	0.000	0.0000	-0.0002	0.0001	1:59:33 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0015	0.0015	0.0000				
%RSD:	122.30%	122.30%	122.30				

Sequence No.: 52

Autosampler Location: 68

Sample ID: LCSW-309924

Date Collected: 3/15/2018 1:59:52 PM

Analyst:

Data Type: Original

Replicate Data: LCSW-309924

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.080	1.080	0.0136	0.0494	0.0136	2:00:42 PM	Yes
2	1.084	1.084	0.0136	0.0491	0.0137	2:01:11 PM	Yes
Mean:	1.082	1.082	0.0136				
SD:	0.0027	0.0027	0.0000				
%RSD:	0.25%	0.25%	0.25				

Sequence No.: 53

Autosampler Location: 69

Sample ID: R1802078-002

Date Collected: 3/15/2018 2:01:30 PM

Analyst:

Data Type: Original

Replicate Data: R1802078-002

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	0.0001	0.0001	2:02:20 PM	Yes
2	0.002	0.002	0.0000	0.0001	0.0001	2:02:49 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0010	0.0010	0.0000				
%RSD:	103.18%	103.18%	103.18				

Sequence No.: 54

Autosampler Location: 70

Sample ID: R1802078-004  
Analyst:

Date Collected: 3/15/2018 2:03:09 PM  
Data Type: Original

## Replicate Data: R1802078-004

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	-0.0002	0.0000	2:03:59 PM	Yes
2	0.001	0.001	0.0000	0.0003	0.0001	2:04:28 PM	Yes
Mean:	0.000	-0.000	-0.0000				
SD:	0.0018	0.0018	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 55

Autosampler Location: 71

Sample ID: R1802078-006

Date Collected: 3/15/2018 2:04:48 PM

Analyst:

Data Type: Original

## Replicate Data: R1802078-006

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0006	0.0001	2:05:38 PM	Yes
2	0.003	0.003	0.0000	0.0002	0.0001	2:06:07 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0003	0.0003	0.0000				
%RSD:	13.74%	13.74%	13.74%				

Sequence No.: 56

Autosampler Location: 72

Sample ID: R1802078-008

Date Collected: 3/15/2018 2:06:27 PM

Analyst:

Data Type: Original

## Replicate Data: R1802078-008

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	-0.0000	0.0001	2:07:17 PM	Yes
2	-0.002	-0.002	-0.0000	0.0001	0.0000	2:07:46 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0008	0.0008	0.0000				
%RSD:	61.18%	61.18%	61.18%				

Sequence No.: 57

Autosampler Location: 8

Sample ID: CCV

Date Collected: 3/15/2018 2:08:06 PM

Analyst:

Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.089	3.089	0.0388	0.1428	0.0389	2:08:56 PM	Yes
2	3.097	3.097	0.0389	0.1435	0.0390	2:09:25 PM	Yes
Mean:	3.093	3.093	0.0389				
SD:	0.0059	0.0059	0.0001				
%RSD:	0.19%	0.19%	0.19%				

QC value within limits for Hg 253.7 Recovery = 103.10%  
All analyte(s) passed QC.

Sequence No.: 58

Autosampler Location: 1

Sample ID: CCB

Date Collected: 3/15/2018 2:09:44 PM

Analyst:

Data Type: Original

## Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0001	0.0001	2:10:33 PM	Yes
2	0.003	0.003	0.0000	0.0004	0.0001	2:11:01 PM	Yes
Mean:	0.002	0.002	0.0000				

SD: 0.0011 0.0011 0.0000  
 %RSD: 59.25% 59.25% 59.25

QC value within limits for Hg 253.7 Recovery = Not calculated  
 All analyte(s) passed QC.

Sequence No.: 59 Autosampler Location: 73  
 Sample ID: R1802078-010 Date Collected: 3/15/2018 2:11:21 PM  
 Analyst: Data Type: Original

Replicate Data: R1802078-010 Analyte: Hg 253.7

Repl #	Sample Conc ug/L	Stnd Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	-0.0006	0.0001	2:12:11 PM	Yes
2	0.005	0.005	0.0001	0.0008	0.0001	2:12:40 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0035	0.0035	0.0000				
%RSD:	160.59%	160.59%	160.59				

Sequence No.: 60 Autosampler Location: 74  
 Sample ID: R1802078-012 Date Collected: 3/15/2018 2:13:00 PM  
 Analyst: Data Type: Original

Replicate Data: R1802078-012 Analyte: Hg 253.7

Repl #	Sample Conc ug/L	Stnd Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.0000	-0.0006	0.0000	2:13:50 PM	Yes
2	0.001	0.001	0.0000	0.0001	0.0001	2:14:19 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0027	0.0027	0.0000				
%RSD:	197.27%	197.27%	197.27				

Sequence No.: 61 Autosampler Location: 75  
 Sample ID: R1802078-014 Date Collected: 3/15/2018 2:14:39 PM  
 Analyst: Data Type: Original

Replicate Data: R1802078-014 Analyte: Hg 253.7

Repl #	Sample Conc ug/L	Stnd Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	0.0003	0.0001	2:15:29 PM	Yes
2	0.002	0.002	0.0000	-0.0000	0.0001	2:15:58 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0002	0.0002	0.0000				
%RSD:	11.29%	11.29%	11.29				

Sequence No.: 62 Autosampler Location: 76  
 Sample ID: R1802078-016 Date Collected: 3/15/2018 2:16:17 PM  
 Analyst: Data Type: Original

Replicate Data: R1802078-016 Analyte: Hg 253.7

Repl #	Sample Conc ug/L	Stnd Conc ug/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0003	0.0001	2:17:07 PM	Yes
2	0.003	0.003	0.0000	0.0001	0.0001	2:17:36 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.90%	0.90%	0.90				

Sequence No.: 63 Autosampler Location: 77  
 Sample ID: R1802078-018 Date Collected: 3/15/2018 2:17:56 PM  
 Analyst: Data Type: Original

Replicate Data: R1802078-018 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.001	0.001	0.0000	-0.0001	0.0001	2:18:46 PM	Yes
2	0.004	0.004	0.0001	0.0004	0.0001	2:19:16 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0021	0.0021	0.0000				
%RSD:	75.64%	75.64%	75.64%				

Sequence No.: 64

Autosampler Location: 8

Sample ID: CCV

Date Collected: 3/15/2018 2:19:35 PM

Analyst:

Data Type: Original

Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.118	3.118	0.0392	0.1440	0.0393	2:20:25 PM	Yes
2	3.111	3.111	0.0391	0.1438	0.0392	2:20:54 PM	Yes
Mean:	3.114	3.114	0.0392				
SD:	0.0043	0.0043	0.0001				
%RSD:	0.14%	0.14%	0.14%				

QC value within limits for Hg 253.7 Recovery = 103.81%  
All analyte(s) passed QC.

Sequence No.: 65

Autosampler Location: 1

Sample ID: CCB

Date Collected: 3/15/2018 2:21:13 PM

Analyst:

Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0000	0.0001	2:22:03 PM	Yes
2	0.002	0.002	0.0000	0.0001	0.0001	2:22:32 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0001	0.0001	0.0000				
%RSD:	4.12%	4.12%	4.12%				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 66

Autosampler Location: 78

Sample ID: R1802078-020

Date Collected: 3/15/2018 2:22:50 PM

Analyst:

Data Type: Original

Replicate Data: R1802078-020

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0006	0.0001	2:23:40 PM	Yes
2	-0.002	-0.002	-0.0000	-0.0003	0.0000	2:24:09 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0049	0.0049	0.0001				
%RSD:	384.49%	384.49%	384.49%				

Sequence No.: 67

Autosampler Location: 79

Sample ID: R1802078-022

Date Collected: 3/15/2018 2:24:29 PM

Analyst:

Data Type: Original

Replicate Data: R1802078-022

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StdConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	-0.0003	0.0000	2:25:19 PM	Yes
2	0.000	0.000	0.0000	0.0001	0.0001	2:25:48 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0019	0.0019	0.0000				
%RSD:	180.68%	180.68%	180.68%				

Sequence No.: 68  
 Sample ID: R1802078-024  
 Analyst:

Autosampler Location: 80  
 Date Collected: 3/15/2018 2:26:08 PM  
 Data Type: Original

## Replicate Data: R1802078-024

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	-0.0001	0.0000	2:27:00 PM	Yes
2	0.004	0.004	0.0001	0.0006	0.0001	2:27:28 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0044	0.0044	0.0001				
%RSD:	323.92%	323.92%	323.92				

Sequence No.: 69  
 Sample ID: R1802078-026  
 Analyst:

Autosampler Location: 81  
 Date Collected: 3/15/2018 2:27:48 PM  
 Data Type: Original

## Replicate Data: R1802078-026

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0001	0.0001	2:28:39 PM	Yes
2	0.001	0.001	0.0000	0.0001	0.0001	2:29:08 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0011	0.0011	0.0000				
%RSD:	74.65%	74.65%	74.65				

Sequence No.: 70  
 Sample ID: R1802078-028  
 Analyst:

Autosampler Location: 82  
 Date Collected: 3/15/2018 2:29:28 PM  
 Data Type: Original

## Replicate Data: R1802078-028

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.002	0.002	0.0000	0.0003	0.0001	2:30:18 PM	Yes
2	-0.002	-0.002	-0.0000	-0.0003	0.0000	2:30:46 PM	Yes
Mean:	0.000	-0.000	-0.0000				
SD:	0.0033	0.0033	0.0000				
%RSD:	>999.9%	>999.9%	>999.9%				

Sequence No.: 71  
 Sample ID: R1802078-030  
 Analyst:

Autosampler Location: 83  
 Date Collected: 3/15/2018 2:31:06 PM  
 Data Type: Original

## Replicate Data: R1802078-030

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	-0.0002	0.0001	2:31:56 PM	Yes
2	-0.000	-0.000	-0.0000	-0.0001	0.0001	2:32:25 PM	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.0004	0.0004	0.0000				
%RSD:	226.64%	226.64%	226.64				

Sequence No.: 72  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/15/2018 2:32:45 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.102	3.102	0.0390	0.1439	0.0391	2:33:34 PM	Yes
2	3.107	3.107	0.0391	0.1438	0.0391	2:34:03 PM	Yes
Mean:	3.105	3.105	0.0390				

SD: 0.0035 0.0035 0.0000  
%RSD: 0.11% 0.11% 0.11

QC value within limits for Hg 253.7 Recovery = 103.49%  
All analyte(s) passed QC.

Sequence No.: 73  
Sample ID: CCB  
Analyst:

Autosampler Location: 1  
Date Collected: 3/15/2018 2:34:23 PM  
Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0004	0.0001	2:35:12 PM	Yes
2	0.002	0.002	0.0000	0.0002	0.0001	2:35:41 PM	Yes
Mean:	0.003	0.003	0.0000				
SD:	0.0010	0.0010	0.0000				
%RSD:	37.48%	37.48%	37.48				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 74  
Sample ID: R1802078-032  
Analyst:

Autosampler Location: 84  
Date Collected: 3/15/2018 2:36:00 PM  
Data Type: Original

Replicate Data: R1802078-032

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	-0.0001	0.0001	2:36:50 PM	Yes
2	0.003	0.003	0.0000	0.0003	0.0001	2:37:19 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0021	0.0021	0.0000				
%RSD:	134.34%	134.34%	134.34				

Sequence No.: 75  
Sample ID: R1802078-034  
Analyst:

Autosampler Location: 85  
Date Collected: 3/15/2018 2:37:39 PM  
Data Type: Original

Replicate Data: R1802078-034

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0004	0.0001	2:38:29 PM	Yes
2	0.001	0.001	0.0000	0.0003	0.0001	2:38:58 PM	Yes
Mean:	0.002	0.002	0.0000				
SD:	0.0008	0.0008	0.0000				
%RSD:	38.48%	38.48%	38.48				

Sequence No.: 76  
Sample ID: R1802078-034S  
Analyst:

Autosampler Location: 86  
Date Collected: 3/15/2018 2:39:18 PM  
Data Type: Original

Replicate Data: R1802078-034S

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.782	0.782	0.0098	0.0402	0.0099	2:40:09 PM	Yes
2	0.786	0.786	0.0099	0.0401	0.0099	2:40:38 PM	Yes
Mean:	0.784	0.784	0.0099				
SD:	0.0028	0.0028	0.0000				
%RSD:	0.35%	0.35%	0.35				

Sequence No.: 77  
Sample ID: R1802078-034SD  
Analyst:

Autosampler Location: 87  
Date Collected: 3/15/2018 2:40:58 PM  
Data Type: Original

## Replicate Data: R1802078-034SD

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.790	0.790	0.0099	0.0406	0.0100	2:41:48 PM	Yes
2	0.796	0.796	0.0100	0.0407	0.0101	2:42:18 PM	Yes
Mean:	0.793	0.793	0.0100				
SD:	0.0038	0.0038	0.0000				
%RSD:	0.48%	0.48%	0.48				

Sequence No.: 78  
 Sample ID: R1802078-036  
 Analyst:

Autosampler Location: 88  
 Date Collected: 3/15/2018 2:42:38 PM  
 Data Type: Original

## Replicate Data: R1802078-036

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0007	0.0001	2:43:28 PM	Yes
2	0.008	0.008	0.0001	0.0013	0.0002	2:43:57 PM	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.0021	0.0021	0.0000				
%RSD:	34.14%	34.14%	34.14				

Sequence No.: 79  
 Sample ID: R1802078-038  
 Analyst:

Autosampler Location: 89  
 Date Collected: 3/15/2018 2:44:17 PM  
 Data Type: Original

## Replicate Data: R1802078-038

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	0.0001	0.0000	2:45:07 PM	Yes
2	0.001	0.001	0.0000	0.0002	0.0001	2:45:37 PM	Yes
Mean:	-0.000	-0.000	-0.0000				
SD:	0.0014	0.0014	0.0000				
%RSD:	788.04%	788.04%	788.04				

Sequence No.: 80  
 Sample ID: MRL  
 Analyst:

Autosampler Location: 2  
 Date Collected: 3/15/2018 2:45:56 PM  
 Data Type: Original

## Replicate Data: MRL

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.212	0.212	0.0027	0.0101	0.0027	2:46:46 PM	Yes
2	0.211	0.211	0.0026	0.0100	0.0027	2:47:15 PM	Yes
Mean:	0.211	0.211	0.0027				
SD:	0.0006	0.0006	0.0000				
%RSD:	0.30%	0.30%	0.30				

QC value within limits for Hg 253.7 Recovery = 105.54%  
 All analyte(s) passed QC.

Sequence No.: 81  
 Sample ID: CCV  
 Analyst:

Autosampler Location: 8  
 Date Collected: 3/15/2018 2:47:34 PM  
 Data Type: Original

## Replicate Data: CCV

Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.088	3.088	0.0388	0.1435	0.0389	2:48:23 PM	Yes
2	3.086	3.086	0.0388	0.1428	0.0389	2:48:52 PM	Yes
Mean:	3.087	3.087	0.0388				
SD:	0.0014	0.0014	0.0000				
%RSD:	0.04%	0.04%	0.04				

QC value within limits for Hg 253.7 Recovery = 102.91%



All analyte(s) passed QC.

Sequence No.: 82

Sample ID: CCB

Analyst:

Autosampler Location: 1

Date Collected: 3/15/2018 2:49:12 PM

Data Type: Original

Replicate Data: CCB

Analyte: Hg 253.7

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.002	-0.002	-0.0000	-0.0002	0.0000	2:50:01 PM	Yes
2	0.003	0.003	0.0000	0.0002	0.0001	2:50:30 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0032	0.0032	0.0000				
%RSD:	418.74%	418.74%	418.74				

QC value within limits for Hg 253.7 Recovery = Not calculated  
All analyte(s) passed QC.

Sequence No.: 83

Sample ID: Sample090

Analyst:

Autosampler Location: 90

Date Collected: 3/15/2018 2:50:48 PM

Data Type: Original

Replicate Data: Sample090

Analyte: Hg 253.7

Repl	SampleConc	StdConc	BlkCorr	Peak	Peak	Time	Peak
#	ug/L	ug/L	Signal	Area	Height		Stored
1	-0.004	-0.004	-0.0001	-0.0003	0.0000	2:51:39 PM	Yes
2	-0.005	-0.005	-0.0001	-0.0007	0.0000	2:52:07 PM	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.0003	0.0003	0.0000				
%RSD:	5.98%	5.98%	5.98				

# Preparation Information Benchsheet

Prep Run#: 309923  
Team: Metals/NMANSEN

Prep Workflow: HgDigAq  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 3/14/18 03:26 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802305-01	MB		25mL	245.1/Hg T, Hg T DOD, 7470A/Hg T	<2			25.00mL			HB: 8 Well: D3 Temperature: 94.5C/95.0C Correction Factor: -1.0C Corr. Temp: 93.5C/94.0C
2	RQ1802305-02	LCS		25mL	245.1/Hg T, Hg T DOD, 7470A/Hg T	<2			25.00mL		0.2500 mL/188649	pH Started: 13:57 Digest on HB: 16:45 Digest off HB: 18:45
3	R1801927-001	GM-38-GW-RW1-MW1-0 B18	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
4	R1801927-002	GM-38-GW-TP-1-0318	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
5	R1801927-003	GM-38-GW-RW1-MW3-0 B18	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
6	R1801927-004	GM-38-GW-RW2-MW1-0 B18	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
7	R1801927-008	GM-38-GW-RW3-0318	.07	25mL	245.1/Hg T DOD	<2			25.00mL			
8	R1801927-009	GM-38-GW-RW3-MW2-0 B18	.07	25mL	245.1/Hg T DOD	<2			25.00mL			
9	R1801927-010	GM-38-GW-RW3-MW1-0 B18	.07	25mL	245.1/Hg T DOD	<2			25.00mL			
10	R1801927-011	GM-38-GW-RW3-MW3-0 B18	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
11	RQ1802305-03	R1801927-011 MS	.05	25mL	245.1/Hg T DOD	<2			25.00mL		0.2500 mL/188649	
12	RQ1802305-04	R1801927-011 DMS	.05	25mL	245.1/Hg T DOD	<2			25.00mL		0.2500 mL/188649	
13	R1801927-012	GM-38-GW-DUP-0318	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
14	R1801927-013	GM-38-GW-RW3-MW4-0 B18	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
15	R1801927-014	GM-38-GW-FB-0318	.05	25mL	245.1/Hg T DOD	<2			25.00mL			
16	R1801941-002	Gas Condensate Grab	.23	25mL	7470A/Hg T	<2			25.00mL			
17	R1802053-001	S-2	.06	25mL	245.1/Hg T	<2			25.00mL			
18	R1802137-002	MW-02	.13	25mL	7470A/Hg T	<2			25.00mL			
19	RQ1802305-05	R1802137-002 MS	.13	25mL	7470A/Hg T	<2			25.00mL		0.2500 mL/188649	
20	RQ1802305-06	R1802137-002 DMS	.13	25mL	7470A/Hg T	<2			25.00mL		0.2500 mL/188649	
21	R1802137-008	MW-08	.13	25mL	7470A/Hg T	<2			25.00mL			
22	R1802172-001	223.50.5-51 composite	.07	25mL	7470A/Hg T	<2			25.00mL			
23	R1802172-002	223.44-49 composite	.07	25mL	7470A/Hg T	<2			25.00mL			

### Spiking Solutions

Name: Mercury LCSW Metals Hg

Inventory ID 188649

Logbook Ref: 188649

Expires On: 03/15/2018

# Preparation Information Benchsheet

Prep Run#: 309923  
Team: Metals/NMANSEN

Prep WorkFlow: HgDigAq  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 3/14/18 03:26 PM

## Preparation Materials

Hot Block Cups	50 mL Lot 1709027 (188497)	Sulfuric Acid Reagent Grade H2SO4	M7080009S (173657)	Nitric Acid Metals Grade HNO3	M7600004S (188217)
Thermometer	377 (182584)	Hydroxylamine Hydrochloride Reagent Grade	M7600003R (185155)	Potassium Permanganate RG KMnO4	M7600003S (185356)
Potassium Persulfate RG K2S2O8	M7080011E (176626)				

## Preparation Steps

Step: Digestion  
Started: 3/14/18 15:26  
Finished: 3/15/18 11:58  
By: NMANSEN  
Comments

Comments: Prepped with curve M7590091K DOO Pipet Check M7710011

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

## Chain of Custody

Relinquished By: <u>Nicol J</u>	Date: <u>3/15/18</u>	Extracts Examined Yes No
Received By: <u>RAOI</u>	Date: <u>3/15/18</u>	

# Preparation Information Benchsheet

Prep Run#: 309987  
Team: Metals/NMANSEN

Prep Workflow: HgDigLP  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 3/14/18 12:13 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802316-01	MB	.01	25mL	7470A/Hg TCLP				25.00mL			
2	RQ1802344-01	MB		25mL	7470A/Hg TCLP				25.00mL			HB: 8 Well: E3 Temperature: 94.5C/95.0C Correction Factor: -1.0C Corr. Temp: 93.5C/94.0C
3	RQ1802344-02	LCS		25mL	7470A/Hg TCLP				25.00mL		0.2500 mL/188649	Digest on HB: 16:46 Digest off HB: 18:46
4	R1801855-001	TP-02 (4.0)	.02	25mL	7470A/Hg TCLP				25.00mL			
5	RQ1802344-03	R1801855-001 MS	.02	25mL	7470A/Hg TCLP				25.00mL		0.2500 mL/188649	
6	RQ1802344-04	R1801855-001 DMS	.02	25mL	7470A/Hg TCLP				25.00mL		0.2500 mL/188649	
7	R1801855-002	TP-13 (1.0-2.0)	.03	25mL	7470A/Hg TCLP				25.00mL			
8	R1801855-003	TP-14 (3.5)	.03	25mL	7470A/Hg TCLP				25.00mL			

### Spiking Solutions

Name: Mercury LCSW Metals Hg      Inventory ID: 188649      Logbook Ref: 188649      Expires On: 03/15/2018

### Preparation Materials

Hot Block Cups	50 mL Lot 1709027 (188497)	Sulfuric Acid Reagent Grade H2SO4	M7080009S (173657)	Nitric Acid Metals Grade HNO3	M7600004S (188217)
Hydroxylamine Hydrochloride Reagent Grade	M7600003R (185155)	Potassium Permanganate RG KMnO4	M7600003S (185356)	Potassium Persulfate RG K2S2O8	M7080011E (176626)
Thermometer	377 (182584)				

### Preparation Steps

Step: Digestion  
Started: 3/14/18 12:13  
Finished: 3/15/18 12:17  
By: NMANSEN  
Comments

Comments: Prepped with curve M7590091K

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

### Chain of Custody

Relinquished By: <u>Nicol</u>	Date: <u>3/15/18</u>	Extracts Examined Yes      No
Received By: <u>RAOM</u>	Date: <u>3/15/18</u>	

# Preparation Information Benchsheet

Prep Run#: 309924

Team: Metals/NMANSEN

Prep Workflow: HgDigAq

Prep Method: Method

Status: Prepped

Prep Date/Time: 3/14/18 03:26 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1802306-01	MB		25mL	7470A/Hg T	<2			25.00mL			HB: 8 Well: D3 Temperature: 94.5C/95.0C Correction Factor: -1.0C Corr. Temp: 93.5C/94.0C
2	RQ1802306-02	LCS		25mL	7470A/Hg T	<2			25.00mL		0.2500 mL/188649	pH Started: 13:57 Digest on HB: 16:45 Digest off HB: 18:45
3	R1802078-002	MW-505S	.15	25mL	7470A/Hg T	<2			25.00mL			
4	R1802078-004	MW-505R	.15	25mL	7470A/Hg T	<2			25.00mL			
5	R1802078-006	DUPE-X	.15	25mL	7470A/Hg T	<2			25.00mL			
6	R1802078-008	MW-315DR	.15	25mL	7470A/Hg T	<2			25.00mL			
7	R1802078-010	MW-315R	.15	25mL	7470A/Hg T	<2			25.00mL			
8	R1802078-012	MW-315S	.15	25mL	7470A/Hg T	<2			25.00mL			
9	R1802078-014	DUPE-Y	.15	25mL	7470A/Hg T	<2			25.00mL			
10	R1802078-016	MW-312S	.15	25mL	7470A/Hg T	<2			25.00mL			
11	R1802078-018	MW-312R	.15	25mL	7470A/Hg T	<2			25.00mL			
12	R1802078-020	MW-312DR	.15	25mL	7470A/Hg T	<2			25.00mL			
13	R1802078-022	MW-313S	.15	25mL	7470A/Hg T	<2			25.00mL			
14	R1802078-024	MW-313R	.15	25mL	7470A/Hg T	<2			25.00mL			
15	R1802078-026	MW-313DR	.15	25mL	7470A/Hg T	<2			25.00mL			
16	R1802078-028	MW-515S	.15	25mL	7470A/Hg T	<2			25.00mL			
17	R1802078-030	MW-515DR	.15	25mL	7470A/Hg T	<2			25.00mL			
18	R1802078-032	MW-314S	.15	25mL	7470A/Hg T	<2			25.00mL			
19	R1802078-034	MW-314R	.22	25mL	7470A/Hg T	<2			25.00mL			
20	RQ1802306-03	R1802078-034 MS	.22	25mL	7470A/Hg T	<2			25.00mL		0.2500 mL/188649	
21	RQ1802306-04	R1802078-034 DMS	.22	25mL	7470A/Hg T	<2			25.00mL		0.2500 mL/188649	
22	R1802078-036	MW-314DR	.15	25mL	7470A/Hg T	<2			25.00mL			
23	R1802078-038	MW-306S	.15	25mL	7470A/Hg T	<2			25.00mL			

## Spiking Solutions

Name: Mercury LCSW Metals Hg

Inventory ID 188649

Logbook Ref: 188649

Expires On: 03/15/2018

## Preparation Materials

Hot Block Cups 50 mL Lot 1709027 (188497)

Sulfuric Acid Reagent Grade H2SO4 M7080009S (173657)

Nitric Acid Metals Grade HNO3 M7600004S (188217)

Hydroxylamine Hydrochloride Reagent Grade M7600003R (185155)

Potassium Permanganate RG KMnO4 M7600003S (185356)

Potassium Persulfate RG K2S2O8 M7080011E (176626)

Thermometer 377 (182584)

# Preparation Information Benchsheet

Prep Run#: 309924  
Team: Metals/NMANSEN

Prep WorkFlow: HgDigAq  
Prep Method: Method

Status: Prepped  
Prep Date/Time: 3/14/18 03:26 PM

## Preparation Steps

Step: Digestion  
Started: 3/14/18 15:26  
Finished: 3/15/18 11:59  
By: NMANSEN  
Comments

Comments: Prepped with curve M1590091K

Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

## Chain of Custody

Relinquished By: <u>Nicol [Signature]</u>	Date: <u>3/15/18</u>	Extracts Examined Yes No
Received By: <u>RAOT</u>	Date: <u>3/15/18</u>	

Pipettor Calibration

Frequency:

**Pipettes:** 3 trials for both bias and precision  
 DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.  
 Non-DOD: Monthly at high, medium, and low.

Calculations:

$\% \text{Recovery} = \text{Mean/Nominal Volume} * 100$   
 $\% \text{RSD} = \text{Stdev/Volume} * 100$

**Repeaters, Dispensers, and Repipettors:** 3 trials for both bias and precision  
 If used for dilutions - Daily before use and each time the volume is changed.  
 If not used for dilutions - monthly

**Limits:** % Rec: 98-102 for Pipettes and others for dilutions  
 % Recovery: 90-110 (Repeaters, Dispensers, Repipettors not for dilutions)  
 %RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Use a balance and DI for all except Dispensers and Repipettors which contain reagents. For these, dispense into a To Contain Class A grad cylinder and document the Max Volume of the cylinder instead of the Balance ID. Record to 1/10 the graduation of the cylinder.

Date	Init.	Equipment	Volume	Trial #1	Trial #2	Trial #3	Bias	Pass/	Precision	Pass/	Recal?	Balance ID or	Comments/
		ID	(mL)	(g/mL)	(g/mL)	(g/mL)	%Recovery	Fail	%RSD	Fail	Y/N	Class A (TC)	Corrective Action
3/12/18	NM	M31	0.0500	0.0498	0.0497	0.0497	99.47%	P	0.115	P	N	R-18	DOD check
		↓	0.0750	0.0747	0.0748	0.0746	99.6%	P	0.133	P	N		
		M26	0.2500	0.2486	0.2494	0.2496	99.18%	P	0.211	P	N		
		↓	0.5000	0.4979	0.4979	0.4986	99.63%	P	0.081	P	N		
	↓	↓	1.0000	0.9903	0.9908	0.9923	99.11%	P	0.104	P	N		
3/13/18	NM	M23	0.5000	0.4992	0.4976	0.4980	99.65%	P	0.167	P	N	R-10	DOD check
3/14/18	NM	M31	0.0500	0.0499	0.0501	0.0501	100.07%	P	0.231	P	N	R-10	DOD check
		↓	0.0750	0.0748	0.0748	0.0751	99.87%	P	0.231	P	N		
		M26	0.2500	0.2511	0.2507	0.2503	100.28%	P	0.16	P	N		
		↓	0.5000	0.4968	0.4971	0.4972	99.41%	P	0.042	P	N		
	↓	↓	1.0000	0.9923	0.9915	0.9908	99.15%	P	0.075	P	N		

# MERCURY CCV / LCSW / MS STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg CCV Stk A	M7600001Q	1000	1.00	100	10	0.5% HNO <sub>3</sub>	NM 3/12/18	A	M7600004S	3/19/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg CCV Stk B	Hg CCV Stk A	10.0	1.00	100	0.100	0.5% HNO <sub>3</sub>	NM 3/12/18	B	M7600004S	M28
							NM 3/13/18	C	M7600004S	M26
							NM 3/14/18	D	M7600004S	M26
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CCV Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
CCV	Hg CCV Stk B	0.100	3.00	0.75	Soils- Final vol. 100mL after digest.	3.00	Water	NM 3/12/18	I	M26
LCS / MS			1.00	0.25		1.00	Soil	NM 3/13/18	J	M26
					Water - Final Vol of 25 mL before digest.		Water	NM 3/14/18	K	M26
									L	
									M	
									N	
									O	



# MERCURY CALIBRATION / CRDL STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg Cal Stk A	M7600001V	1000	1.00	100	10	0.5% HNO <sub>3</sub>	NM 3/12/18	A	M7600004S	3/19/18	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg Cal StkB	Hg Cal Stk A	10.0	1.00	100	0.100	0.5% HNO <sub>3</sub>	NM 3/12/18	B	M7600004S	M28
							NM 3/13/18	C	M7600004S	M26
							NM 3/14/18	D	M7600004S	M26
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CAL Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	0.05	Soils- Dilute to 10mL w/ DI. Final vol. 100mL after digest. Water - dilute to Final Vol of 25 mL with DI before digest.	0.200	Water	NM 3/12/18	I	M26, M31
0.500			0.500	0.125		0.500	Soil	NM 3/13/18	J	M26
1.00			1.00	0.25		1.00	Water	NM 3/14/18	K	M26, M31
2.00			2.00	0.5		2.00			L	
5.00			5.00	1.25		5.00			M	
10.0			10.0	2.5		10.0			N	
			0.200	0.05		0.200			O	
CRA										

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 583752 Method/Testcode: 245.1/Hg T DOD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802305-01	Mercury	MB		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 12:57	N	IV
RQ1802305-01	Mercury, Total	MB		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 12:57	N	IV
RQ1802305-01	Mercury, Total	MB		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 12:57	N	IV
RQ1802305-02	Mercury	LCS		Water	1.04 µg/L	25 mL	1.04 µg/L	1 ✓	0.09	0.20	104		3/15/18 12:58	N	IV
RQ1802305-02	Mercury, Total	LCS		Water	1.04 µg/L	25 mL	1.04 µg/L	1 ✓	0.09	0.20	104		3/15/18 12:58	N	IV
RQ1802305-02	Mercury, Total	LCS		Water	1.04 µg/L	25 mL	1.04 µg/L	1 ✓	0.09	0.20	104		3/15/18 12:58	N	IV
R1801927-001	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:00	N	IV
R1801927-002	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:02	N	IV
R1801927-003	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:03	N	IV
R1801927-004	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:05	N	IV
R1801927-008	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:07	N	IV
R1801927-009	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:08	N	II
R1801927-010	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:13	N	II
R1801927-011	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:15	Y	IV
RQ1802305-03	Mercury	MS	R1801927-011	Water	1.05 µg/L	25 mL	1.05 µg/L	1 ✓	0.09	0.20	105		3/15/18 13:16	N	IV
RQ1802305-04	Mercury	DMS	R1801927-011	Water	1.07 µg/L	25 mL	1.07 µg/L	1 ✓	0.09	0.20	107	1	3/15/18 13:18	N	IV
R1801927-012	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:20	N	IV
R1801927-013	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:21	N	IV
R1801927-014	Mercury	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:23	N	IV
R1801941-002	Mercury, Total	N/A		Water	0.34 µg/L	25 mL	0.34 µg/L	1 ✓	0.09	0.20			3/15/18 13:28	N	II
R1802053-001	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:30	N	II
R1802137-002	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:31	Y	IV
RQ1802305-05	Mercury, Total	MS	R1802137-002	Water	1.04 µg/L	25 mL	1.04 µg/L	1 ✓	0.09	0.20	104		3/15/18 13:33	N	IV
RQ1802305-06	Mercury, Total	DMS	R1802137-002	Water	1.02 µg/L	25 mL	1.02 µg/L	1 ✓	0.09	0.20	102	2	3/15/18 13:34	N	IV
R1802137-008	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:36	N	IV
R1802172-001	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:38	N	II
R1802172-002	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1 ✓	0.09	0.20			3/15/18 13:43	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 583753 Method/Testcode: 7470A/Hg TCLP

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802344-01	Mercury	MB		Soil	0.00 µg/L	25 mL	0.00030 mg/L U	1	0.000090	0.00030			3/15/18 12:57	N	IV
RQ1802344-02	Mercury	LCS		Soil	1.04 µg/L	25 mL	0.00104 mg/L	1	0.000090	0.00030	104		3/15/18 12:58	N	IV
RQ1802316-01	Mercury	MB		Soil	0.00 µg/L	25 mL	0.00030 mg/L U	1	0.000090	0.00030			3/15/18 13:44	N	IV
R1801855-001	Mercury	N/A		Soil	0.01 µg/L	25 mL	0.00030 mg/L U	1	0.000090	0.00030			3/15/18 13:46	N	IV
RQ1802344-03	Mercury	MS	R1801855-001	Soil	1.08 µg/L	25 mL	0.00108 mg/L	1	0.000090	0.00030	108		3/15/18 13:48	N	IV
RQ1802344-04	Mercury	DMS	R1801855-001	Soil	1.08 µg/L	25 mL	0.00108 mg/L	1	0.000090	0.00030	108	<1	3/15/18 13:49	N	IV
R1801855-002	Mercury	N/A		Soil	0.01 µg/L	25 mL	0.00030 mg/L U	1	0.000090	0.00030			3/15/18 13:51	N	IV
R1801855-003	Mercury	N/A		Soil	0.03 µg/L	25 mL	0.00030 mg/L U	1	0.000090	0.00030			3/15/18 13:53	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-CVAA-02

Analyst: NMANSEN

Analysis Lot: 583754 Method/Testcode: 7470A/Hg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1802306-01	Mercury, Total	MB		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 13:59	N	IV
RQ1802306-02	Mercury, Total	LCS		Water	1.08 µg/L	25 mL	1.08 µg/L	1	0.09	0.20	108		3/15/18 14:01	N	IV
R1802078-002	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:02	N	IV
R1802078-004	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:04	N	IV
R1802078-006	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:06	N	IV
R1802078-008	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:07	N	IV
R1802078-010	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:12	N	IV
R1802078-012	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:14	N	IV
R1802078-014	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:15	N	IV
R1802078-016	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:17	N	IV
R1802078-018	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:19	N	IV
R1802078-020	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:24	N	IV
R1802078-022	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:25	N	IV
R1802078-024	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:27	N	IV
R1802078-026	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:29	N	IV
R1802078-028	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:30	N	IV
R1802078-030	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:32	N	IV
R1802078-032	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:37	N	IV
R1802078-034	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:38	Y	IV
RQ1802306-03	Mercury, Total	MS	R1802078-034	Water	0.78 µg/L	25 mL	0.78 µg/L	1	0.09	0.20	78		3/15/18 14:40	N	IV
RQ1802306-04	Mercury, Total	DMS	R1802078-034	Water	0.79 µg/L	25 mL	0.79 µg/L	1	0.09	0.20	79	1	3/15/18 14:42	N	IV
R1802078-036	Mercury, Total	N/A		Water	0.01 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:43	N	IV
R1802078-038	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			3/15/18 14:45	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	1010	101	1000	993	99	997	100	P
Barium	10000	10300	103	10000	10200	102	10300	103	P
Cadmium	500	514	103	500	508	102	510	102	P
Mercury	3.00	2.97	99	3.00	2.99	100	3.01	100	CV
Chromium	500	522	104	500	517	103	520	104	P
Lead	500	512	102	500	504	101	508	102	P
Selenium	500	510	102	500	503	101	505	101	P
Silver	500	484	97	500	480	96	481	96	P

Comments:

METALS  
-2A-  
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	992	99	1000	100	P
Barium				10000	10100	101	10200	102	P
Cadmium				500	502	100	506	101	P
Mercury				3.00	3.05	102	3.06	102	CV
Chromium				500	511	102	515	103	P
Lead				500	499	100	505	101	P
Selenium				500	498	100	494	99	P
Silver				500	474	95	477	95	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	989	99	992	99	P
Barium				10000	10000	100	10100	101	P
Cadmium				500	501	100	500	100	P
Mercury				3.00	3.08	103			CV
Chromium				500	508	102	511	102	P
Lead				500	498	100	500	100	P
Selenium				500	491	98	487	97	P
Silver				500	472	94	475	95	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	987	99	997	100	P
Barium				10000	10100	101	10100	101	P
Cadmium				500	499	100	506	101	P
Chromium				500	510	102	514	103	P
Lead				500	498	100	503	101	P
Selenium				500	486	97	495	99	P
Silver				500	472	94	476	95	P

Comments:



**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	1000	971	97	1000	977	98	967	97	P

Comments:

**METALS**  
-2A-  
**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic				1000	974	97	966	97	P

Comments:

METALS

-3-

BLANKS

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic	3.60 U	3.60	U	3.80	J	3.60	U	3.600	U	P
Barium	13.00 U	13.00	U	13.00	U	13.00	U	13.000	U	P
Cadmium	0.90 U	0.90	U	0.90	U	0.90	U	0.900	U	P
Mercury	0.090 U	0.090	U	0.090	U	0.090	U	0.090	U	CV
Chromium	2.68 U	2.68	U	2.68	U	2.68	U	2.680	U	P
Lead	3.60 U	3.60	U	3.60	U	3.60	U	3.600	U	P
Selenium	3.32 U	3.32	U	3.32	U	3.32	U	3.320	U	P
Silver	1.69 U	1.69	U	1.69	U	1.69	U	1.690	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		3.60	U	3.60	U	3.60	U			P
Barium		13.00	U	13.00	U	13.00	U			P
Cadmium		0.90	U	0.90	U	0.90	U			P
Mercury		0.090	U	0.090	U					CV
Chromium		2.68	U	2.68	U	2.68	U			P
Lead		3.60	U	3.60	U	3.60	U			P
Selenium		3.32	U	3.32	U	5.10	J			P
Silver		1.69	U	1.69	U	1.69	U			P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		3.60	J	3.60	U					P
Barium		13.00	U	13.00	U					P
Cadmium		0.90	U	0.90	U					P
Chromium		2.68	U	2.68	U					P
Lead		3.60	U	3.60	U					P
Selenium		3.40	J	3.32	U					P
Silver		1.69	U	1.69	U					P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic	3.60 U	3.60	U	3.60	U	3.60	U			P

Comments:

**METALS**

-3-

**BLANKS**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank	C	M
		1	C	2	C	3	C			
Arsenic		3.60	U							P

Comments:

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
BLANK	1.00	15:41				X	X		X	X				X						X	X					
STANDARD 1	1.00	15:45				X	X		X	X				X						X	X					
STANDARD 2	1.00	15:48				X	X		X	X				X						X	X					
STANDARD 3	1.00	15:51				X	X		X	X				X						X	X					
STANDARD 4	1.00	15:55				X	X		X	X				X						X	X					
STANDARD 5	1.00	15:58				X	X		X	X				X						X	X					
ICV1	1.00	16:01				X	X		X	X				X						X	X					
ICB1	1.00	16:05				X	X		X	X				X						X	X					
ZZZZZZ	1.00	16:08																								
ZZZZZZ	1.00	16:11																								
ZZZZZZ	1.00	16:15																								
ZZZZZZ	1.00	16:18																								
ZZZZZZ	1.00	16:21																								
ZZZZZZ	1.00	16:25																								
ZZZZZZ	1.00	16:28																								
ZZZZZZ	10.00	16:31																								
ZZZZZZ	1.00	16:35																								
ZZZZZZ	5.00	16:38																								
ZZZZZZ	1.00	16:41																								
ZZZZZZ	1.00	16:44																								
ZZZZZZ	1.00	16:48																								
ZZZZZZ	1.00	16:51																								
ZZZZZZ	1.00	16:54																								
ZZZZZZ	1.00	16:58																								
ZZZZZZ	1.00	17:01																								
ZZZZZZ	1.00	17:04																								
ZZZZZZ	1.00	17:08																								
ZZZZZZ	1.00	17:11																								
ZZZZZZ	1.00	17:14																								
ZZZZZZ	1.00	17:18																								
ZZZZZZ	1.00	17:21																								
ZZZZZZ	1.00	17:24																								
ZZZZZZ	1.00	17:27																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14



METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.00	17:31																													
ZZZZZZ	1.00	17:34																													
ZZZZZZ	1.00	17:37																													
ZZZZZZ	1.00	17:41																													
ZZZZZZ	1.00	17:44																													
ZZZZZZ	1.00	17:47																													
ZZZZZZ	1.00	17:50																													
ZZZZZZ	1.00	17:54																													
ZZZZZZ	1.00	17:57																													
ZZZZZZ	5.00	18:00																													
ZZZZZZ	1.00	18:04																													
ZZZZZZ	1.00	18:07																													
ZZZZZZ	1.00	18:10																													
CCV1	1.00	18:14			X	X		X	X				X							X	X										
CCB1	1.00	18:17			X	X		X	X				X							X	X										
CRDL1	1.00	18:21			X	X		X	X				X							X	X										
ICS-A1	1.00	18:24			X	X		X	X				X							X	X										
ICS-AB1	1.00	18:27			X	X		X	X				X							X	X										
ZZZZZZ	1.00	18:31																													
ZZZZZZ	1.00	18:34																													
ZZZZZZ	1.00	18:37																													
CCV2	1.00	18:41			X	X		X	X				X							X	X										
CCB2	1.00	18:44			X	X		X	X				X							X	X										
ZZZZZZ	1.00	18:47																													
ZZZZZZ	1.00	18:51																													
ZZZZZZ	1.00	18:54																													
ZZZZZZ	1.00	18:57																													
ZZZZZZ	1.00	19:01																													
ZZZZZZ	1.00	19:04																													
ZZZZZZ	5.00	19:07																													
ZZZZZZ	1.00	19:10																													
ZZZZZZ	1.00	19:14																													
ZZZZZZ	1.00	19:17																													

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N L	T L	V	Z N
ZZZZZZ	1.00	19:20																								
ZZZZZZ	1.00	19:24																								
ZZZZZZ	1.00	19:27																								
ZZZZZZ	1.00	19:30																								
ZZZZZZ	1.00	19:34																								
ZZZZZZ	1.00	19:37																								
ZZZZZZ	1.00	19:40																								
ZZZZZZ	1.00	19:44																								
ZZZZZZ	1.00	19:47																								
ZZZZZZ	1.00	19:50																								
ZZZZZZ	1.00	19:54																								
ZZZZZZ	1.00	19:57																								
ZZZZZZ	1.00	20:00																								
ZZZZZZ	1.00	20:04																								
ZZZZZZ	1.00	20:07																								
ZZZZZZ	1.00	20:10																								
ZZZZZZ	1.00	20:14																								
ZZZZZZ	1.00	20:17																								
ZZZZZZ	1.00	20:20																								
ZZZZZZ	1.00	20:23																								
ZZZZZZ	1.00	20:27																								
ZZZZZZ	1.00	20:30																								
ZZZZZZ	1.00	20:33																								
ZZZZZZ	1.00	20:37																								
ZZZZZZ	1.00	20:40																								
ZZZZZZ	1.00	20:43																								
ZZZZZZ	1.00	20:47																								
ZZZZZZ	1.00	20:50																								
ZZZZZZ	1.00	20:53																								
ZZZZZZ	1.00	20:57																								
ZZZZZZ	1.00	21:00																								
ZZZZZZ	1.00	21:03																								
ZZZZZZ	1.00	21:06																								

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
ZZZZZZ	1.00	21:10																													
ZZZZZZ	1.00	21:13																													
ZZZZZZ	1.00	21:16																													
ZZZZZZ	1.00	21:20																													
ZZZZZZ	1.00	21:23																													
ZZZZZZ	1.00	21:26																													
ZZZZZZ	1.00	21:30																													
ZZZZZZ	5.00	21:33																													
ZZZZZZ	1.00	21:36																													
ZZZZZZ	1.00	21:40																													
ZZZZZZ	1.00	21:43																													
ZZZZZZ	1.00	21:46																													
ZZZZZZ	1.00	21:50																													
ZZZZZZ	1.00	21:53																													
ZZZZZZ	1.00	21:56																													
ZZZZZZ	1.00	21:59																													
ZZZZZZ	1.00	22:03																													
ZZZZZZ	1.00	22:06																													
ZZZZZZ	1.00	22:09																													
ZZZZZZ	1.00	22:13																													
ZZZZZZ	1.00	22:16																													
ZZZZZZ	5.00	22:19																													
ZZZZZZ	1.00	22:23																													
ZZZZZZ	1.00	22:26																													
ZZZZZZ	1.00	22:29																													
ZZZZZZ	1.00	22:33																													
ZZZZZZ	1.00	22:36																													
ZZZZZZ	1.00	22:39																													
ZZZZZZ	1.00	22:43																													
ZZZZZZ	1.00	22:46																													
CCV3	1.00	22:49			X	X		X	X				X							X	X										
CCB3	1.00	22:53			X	X		X	X				X							X	X										
PBW	1.00	22:56			X	X		X	X				X							X	X										

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
LCSW	1.00	22:59				X	X		X	X				X						X	X					
ZZZZZZ	1.00	23:03																								
ZZZZZZ	1.00	23:06																								
ZZZZZZ	1.00	23:09																								
ZZZZZZ	1.00	23:13																								
ZZZZZZ	5.00	23:16																								
ZZZZZZ	1.00	23:19																								
ZZZZZZ	1.00	23:22																								
ZZZZZZ	1.00	23:26																								
CCV4	1.00	23:29				X	X		X	X				X						X	X					
CCB4	1.00	23:32				X	X		X	X				X						X	X					
ZZZZZZ	1.00	23:36																								
ZZZZZZ	1.00	23:39																								
ZZZZZZ	1.00	23:42																								
ZZZZZZ	1.00	23:46																								
ZZZZZZ	1.00	23:49																								
ZZZZZZ	1.00	23:52																								
ZZZZZZ	1.00	23:56																								
ZZZZZZ	1.00	23:59																								
ZZZZZZ	1.00	00:02																								
ZZZZZZ	1.00	00:06																								
CCV5	1.00	00:09				X	X		X	X				X						X	X					
CCB5	1.00	00:12				X	X		X	X				X						X	X					
ZZZZZZ	1.00	00:15																								
ZZZZZZ	1.00	00:19																								
ZZZZZZ	10.00	00:22																								
ZZZZZZ	10.00	00:25																								
ZZZZZZ	1.00	00:29																								
ZZZZZZ	1.00	00:32																								
MW-02	1.00	00:35				X		X	X					X						X	X					
MW-02S	1.00	00:39				X		X	X					X						X	X					
MW-02SD	1.00	00:42				X		X	X					X						X	X					
MW-02A	1.00	00:45				X		X	X					X						X	X					

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/15/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
CCV6	1.00	00:49				X	X		X	X				X					X	X						
CCB6	1.00	00:52				X	X		X	X				X					X	X						
MW-02L	5.00	00:55					X		X	X				X					X	X						
MW-08	1.00	00:59				X	X		X	X				X					X	X						
CCV7	1.00	01:02				X	X		X	X				X					X	X						
CCB7	1.00	01:05				X	X		X	X				X					X	X						
CRDL2	1.00	01:09				X	X		X	X				X					X	X						
ICS-A2	1.00	01:12				X	X		X	X				X					X	X						
ICS-AB2	1.00	01:15				X	X		X	X				X					X	X						
CCV8	1.00	01:18				X	X		X	X				X					X	X						
CCB8	1.00	01:22				X	X		X	X				X					X	X						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137  
 Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02  
 Instrument ID Number: Agilent ICP Method: P  
 Start Date: 3/16/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N				
BLANK	1.00	17:18			X																										
STANDARD 1	1.00	17:22			X																										
STANDARD 2	1.00	17:25			X																										
STANDARD 3	1.00	17:28			X																										
STANDARD 4	1.00	17:32			X																										
STANDARD 5	1.00	17:35			X																										
ICV2	1.00	17:38			X																										
ICB2	1.00	17:42			X																										
CRDL1	1.00	17:45			X																										
ICS-A1	1.00	17:48			X																										
ICS-AB1	1.00	17:52			X																										
CCV1	1.00	17:55			X																										
CCB1	1.00	17:58			X																										
ZZZZZZ	1.00	18:02																													
ZZZZZZ	1.00	18:05																													
ZZZZZZ	1.00	18:08																													
ZZZZZZ	5.00	18:12																													
ZZZZZZ	1.00	18:15																													
ZZZZZZ	1.00	18:18																													
ZZZZZZ	10.00	18:22																													
ZZZZZZ	10.00	18:25																													
CCV2	1.00	18:28			X																										
CCB2	1.00	18:32			X																										
ZZZZZZ	1.00	18:35																													
ZZZZZZ	1.00	18:38																													
ZZZZZZ	100.00	18:42																													
ZZZZZZ	100.00	18:45																													
MW-02	1.00	18:48			X																										
MW-02S	1.00	18:51			X																										
MW-02SD	1.00	18:55			X																										
MW-02A	1.00	18:58			X																										
MW-02L	5.00	19:01			X																										
CCV3	1.00	19:05			X																										

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METALS

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ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: Agilent ICP Method: P

Start Date: 3/16/2018 End Date: 3/16/2018

Sample ID.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A A	N A	T L	V	Z N	C N
CCB3	1.00	19:08			X																						
CRDL2	1.00	19:11			X																						
ICS-A2	1.00	19:15			X																						
ICS-AB2	1.00	19:18			X																						
ZZZZZZ	1.00	19:21																									
ZZZZZZ	1.00	19:25																									
ZZZZZZ	1.00	19:28																									
CCV4	1.00	19:31			X																						
CCB4	1.00	19:35			X																						

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14





METALS  
-14-

ANALYSIS RUN LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MW-02

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 3/15/2018 End Date: 3/15/2018

Sample ID.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
MW-02	1.00	13:31															X									
MW-02S	1.00	13:33															X									
MW-02SD	1.00	13:34															X									
MW-08	1.00	13:36															X									
ZZZZZZ	1.00	13:38																								
CCV4	1.00	13:39															X									
CCB4	1.00	13:41															X									
ZZZZZZ	1.00	13:43																								
ZZZZZZ	1.00	13:44																								
ZZZZZZ	1.00	13:46																								
ZZZZZZ	1.00	13:48																								
ZZZZZZ	1.00	13:49																								
ZZZZZZ	1.00	13:51																								
ZZZZZZ	1.00	13:53																								
CRDL2	1.00	13:54																X								
CCV5	1.00	13:56															X									
CCB5	1.00	13:57															X									

\* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

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PREPARATION LOG

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
LCSW	3/13/2018	50.0	50.0
PBW	3/13/2018	50.0	50.0
MW-02	3/13/2018	50.0	50.0
MW-02S	3/13/2018	50.0	50.0
MW-02SD	3/13/2018	50.0	50.0
MW-08	3/13/2018	50.0	50.0

Comments:

**METALS**

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**PREPARATION LOG**

Contract: R1802137

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: MW-02

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
LCSW	3/14/2018	25.0	25.0
PBW	3/14/2018	25.0	25.0
MW-02	3/14/2018	25.0	25.0
MW-02S	3/14/2018	25.0	25.0
MW-02SD	3/14/2018	25.0	25.0
MW-08	3/14/2018	25.0	25.0

Comments:



May 07, 2018

Service Request No:R1803412

Mr. Jeff Danzinger  
Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Mr.Danzinger,

Enclosed are the results of the sample(s) submitted to our laboratory April 17, 2018  
For your reference, these analyses have been assigned our service request number **R1803412**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS** 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



---

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# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)





**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Received:** 04/17/2018

#### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Nine water samples were received for analysis at ALS Environmental on 04/17/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

#### Revision Comment:

Report revised to include TICs.

A handwritten signature in black ink, appearing to read "Brady Kuller", written over a horizontal line.

Approved by \_\_\_\_\_

Date 04/24/2018



**SAMPLE DETECTION SUMMARY**

**CLIENT ID: MW-01** **Lab ID: R1803412-001**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	2.0	J	1.3	10	ug/L	8260C

**CLIENT ID: MW-02** **Lab ID: R1803412-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	1.4	J	1.3	10	ug/L	8260C

**CLIENT ID: MW-04** **Lab ID: R1803412-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
1,1-Dichloroethane (1,1-DCA)	0.34	J	0.20	5.0	ug/L	8260C
Acetone	1.7	J	1.3	10	ug/L	8260C

**CLIENT ID: MW-05** **Lab ID: R1803412-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloroform	0.49	J	0.25	5.0	ug/L	8260C

**CLIENT ID: MW-07** **Lab ID: R1803412-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	3.6	J	1.3	10	ug/L	8260C
Cyclohexane	0.56	J	0.25	10	ug/L	8260C
tert-Butylbenzene	0.25	J	0.20	5.0	ug/L	8260C

**CLIENT ID: MW-08** **Lab ID: R1803412-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	2.9	J	1.3	10	ug/L	8260C
Carbon Disulfide	0.45	J	0.22	10	ug/L	8260C
Methylcyclohexane	0.29	J	0.27	10	ug/L	8260C

**CLIENT ID: TBlank-2** **Lab ID: R1803412-009**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	2.8	J	1.3	10	ug/L	8260C



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803412

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1803412-001	MW-01	4/16/2018	1510
R1803412-002	MW-02	4/16/2018	1545
R1803412-003	MW-03	4/16/2018	1630
R1803412-004	MW-04	4/16/2018	1600
R1803412-005	MW-05	4/16/2018	1610
R1803412-006	MW-06	4/16/2018	1620
R1803412-007	MW-07	4/16/2018	1540
R1803412-008	MW-08	4/16/2018	1130
R1803412-009	TBlank-2	4/16/2018	



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49936

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-18</b>		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE <b>1</b>											
Company/Address <b>Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606</b>		Phone # <b>585-454-6210</b>		Email <b>jdanzinger@daymail.net</b>		Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Jeff Danzinger</b>		NUMBER OF CONTAINERS GC/MS VOAs 722 • 7231 • 7231 • 7231 • 8260 • 824 • CLP + TLO GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)		Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____			
FOR OFFICE USE ONLY LAB ID		SAMPLING DATE		TIME		MATRIX									
CLIENT SAMPLE ID		DATE		TIME		MATRIX									
MW-01		4-16-18		15:10		GW		9		X					
MW-02		4-16-18		15:45		GW		3		X					
MW-03		4-16-18		16:30		GW		3		X					
MW-04		4-16-18		16:00		GW		3		X					
MW-05		4-16-18		16:10		GW		3		X					
MW-06		4-16-18		16:20		GW		3		X					
MW-07		4-16-18		15:40		GW		3		X					
MW-08		4-16-18		11:30		GW		3		X					
TBlank-2		4-16-18		-		Water		3		X					
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day <input type="checkbox"/> 2 day <input type="checkbox"/> 3 day <input type="checkbox"/> 4 day <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> 15 day <input checked="" type="checkbox"/> REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data <input checked="" type="checkbox"/> Edata <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				INVOICE INFORMATION Sec 1/24/18 quote from Christine Casano PO # 54645-18 BILL TO: SAME			
See QAPP <input type="checkbox"/>															
STATE WHERE SAMPLES WERE COLLECTED															
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY					
Signature <i>[Signature]</i>		Signature <i>[Signature]</i>		Signature		Signature		Signature		Signature					
Printed Name <b>Jeff Danzinger</b>		Printed Name <b>Samuel Ward</b>		Printed Name		Printed Name		Printed Name		Printed Name					
Firm <b>Day Env.</b>		Firm <b>ALS</b>		Firm		Firm		Firm		Firm					
Date/Time <b>4-17-2018 / 1625</b>		Date/Time <b>4/17/18 / 1625</b>		Date/Time		Date/Time		Date/Time		Date/Time					

**R1803412** **5**  
 Day Environmental, Incorporated  
 Bulls Head North, Rochester, NY



# Cooler Receipt and Preservation Check Form

R1803412 5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day Environmental Folder Number \_\_\_\_\_

Cooler received on 4/17/18 by: dh

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: Wet Ice Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	ALSTROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 4/17/18 Time: 1626 ID: IR#7 ~~IR#9~~ From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.4</u>						
Correction Factor (°C)	<u>0.0</u>						
Corrected Temp (°C)	<u>5.4</u>						
Temp from: Type of bottle							
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: Roez by shw on 4/17/18 at 1626  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown/Preservation Check\*\*: Date: 4/18/18 Time: 1402 by: @

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES NO
- 10. Did all bottle labels and tags agree with custody papers?  YES NO
- 11. Were correct containers used for the tests indicated?  YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated  N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		Zn Acetate	-	-						
		HCl	**	**	<u>4115120</u>					

\*\*VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 7249-002  
Explain all Discrepancies/ Other Comments: \_\_\_\_\_

*Assume QC on MW-1 (9 vials)*

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: @  
PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

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Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
<b>R1803412-001.01</b>	8260C	4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1131	In Lab / DLIPANI	
		4/20/2018	1906	R-001-S10 / DLIPANI	
<b>R1803412-001.02</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.03</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.04</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.05</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.06</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.07</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.08</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-001.09</b>		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-002.01</b>					

**ALS Group USA, Corp.**  
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**Internal Chain of Custody Report**

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1907	R-001-S10 / DLIPANI	
<b>R1803412-002.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-002.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-003.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1907	R-001-S10 / DLIPANI	
<b>R1803412-003.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-003.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-004.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1908	R-001-S10 / DLIPANI	
<b>R1803412-004.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-004.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	



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Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
<b>R1803412-005.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1908	R-001-S10 / DLIPANI	
<b>R1803412-005.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-005.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-006.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1908	R-001-S10 / DLIPANI	
<b>R1803412-006.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-006.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-007.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1908	R-001-S10 / DLIPANI	
<b>R1803412-007.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-007.03</b>					

ALS Group USA, Corp.  
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Internal Chain of Custody Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412

<b>Bottle ID</b>	<b>Methods</b>	<b>Date</b>	<b>Time</b>	<b>Sample Location / User</b>	<b>Disposed On</b>
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-008.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1132	In Lab / DLIPANI	
		4/20/2018	1908	R-001-S10 / DLIPANI	
<b>R1803412-008.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-008.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-009.01</b>					
	8260C				
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
		4/20/2018	1131	In Lab / DLIPANI	
		4/20/2018	1913	R-001-S10 / DLIPANI	
<b>R1803412-009.02</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	
<b>R1803412-009.03</b>					
		4/18/2018	1403	SMO / DWARD	
		4/18/2018	1403	R-001 / DWARD	



## Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412

**Sample Name:** MW-01  
**Lab Code:** R1803412-001  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-02  
**Lab Code:** R1803412-002  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-03  
**Lab Code:** R1803412-003  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-04  
**Lab Code:** R1803412-004  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-05  
**Lab Code:** R1803412-005  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

ALS Group USA, Corp.  
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Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412

**Sample Name:** MW-06  
**Lab Code:** R1803412-006  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-07  
**Lab Code:** R1803412-007  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-08  
**Lab Code:** R1803412-008  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** TBlank-2  
**Lab Code:** R1803412-009  
**Sample Matrix:** Water

**Date Collected:** 04/16/18  
**Date Received:** 04/17/18

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.





# Sample Results

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:10  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-01  
**Lab Code:** R1803412-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 13:50	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 13:50	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 13:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 13:50	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 13:50	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 13:50	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 13:50	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 13:50	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 13:50	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 13:50	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 13:50	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,4-Dioxane	20 U	100	20	1	04/20/18 13:50	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 13:50	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 13:50	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 13:50	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 13:50	
Acetone	2.0 J	10	1.3	1	04/20/18 13:50	
Benzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 13:50	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 13:50	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 13:50	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 13:50	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 13:50	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 13:50	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 13:50	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 13:50	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 13:50	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 13:50	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 13:50	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 13:50	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 13:50	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 13:50	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 13:50	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 13:50	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 13:50	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 13:50	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water  
**Sample Name:** MW-01  
**Lab Code:** R1803412-001

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:10  
**Date Received:** 04/17/18 16:25  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 13:50	
Toluene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 13:50	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 13:50	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 13:50	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 13:50	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 13:50	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 13:50	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 13:50	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 13:50	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 13:50	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 13:50	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 13:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/20/18 13:50	
Dibromofluoromethane	98	89 - 119	04/20/18 13:50	
Toluene-d8	98	87 - 121	04/20/18 13:50	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:45  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-02  
**Lab Code:** R1803412-002

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 14:12	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 14:12	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 14:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 14:12	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 14:12	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 14:12	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 14:12	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 14:12	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 14:12	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 14:12	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 14:12	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,4-Dioxane	20 U	100	20	1	04/20/18 14:12	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 14:12	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 14:12	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 14:12	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 14:12	
Acetone	1.4 J	10	1.3	1	04/20/18 14:12	
Benzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 14:12	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 14:12	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 14:12	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 14:12	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 14:12	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 14:12	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 14:12	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 14:12	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 14:12	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 14:12	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 14:12	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 14:12	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 14:12	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 14:12	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 14:12	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 14:12	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 14:12	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 14:12	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:45  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-02  
**Lab Code:** R1803412-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 14:12	
Toluene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 14:12	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 14:12	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 14:12	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 14:12	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 14:12	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 14:12	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 14:12	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 14:12	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 14:12	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 14:12	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 14:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/20/18 14:12	
Dibromofluoromethane	99	89 - 119	04/20/18 14:12	
Toluene-d8	100	87 - 121	04/20/18 14:12	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
000091-20-3	Naphthalene	13.65	12.2	JN

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:30  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-03  
**Lab Code:** R1803412-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 14:34	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 14:34	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 14:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 14:34	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 14:34	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 14:34	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 14:34	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 14:34	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 14:34	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 14:34	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 14:34	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,4-Dioxane	20 U	100	20	1	04/20/18 14:34	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 14:34	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 14:34	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 14:34	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 14:34	
Acetone	1.3 U	10	1.3	1	04/20/18 14:34	
Benzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 14:34	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 14:34	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 14:34	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 14:34	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 14:34	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 14:34	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 14:34	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 14:34	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 14:34	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 14:34	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 14:34	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 14:34	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 14:34	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 14:34	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 14:34	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 14:34	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 14:34	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 14:34	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:30  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-03  
**Lab Code:** R1803412-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 14:34	
Toluene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 14:34	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 14:34	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 14:34	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 14:34	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 14:34	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 14:34	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 14:34	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 14:34	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 14:34	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 14:34	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 14:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/20/18 14:34	
Dibromofluoromethane	97	89 - 119	04/20/18 14:34	
Toluene-d8	100	87 - 121	04/20/18 14:34	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:00  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-04  
**Lab Code:** R1803412-004

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 14:55	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 14:55	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 14:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 14:55	
1,1-Dichloroethane (1,1-DCA)	<b>0.34 J</b>	5.0	0.20	1	04/20/18 14:55	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 14:55	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 14:55	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 14:55	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 14:55	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 14:55	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 14:55	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 14:55	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,4-Dioxane	20 U	100	20	1	04/20/18 14:55	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 14:55	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 14:55	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 14:55	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 14:55	
Acetone	<b>1.7 J</b>	10	1.3	1	04/20/18 14:55	
Benzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 14:55	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 14:55	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 14:55	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 14:55	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 14:55	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 14:55	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 14:55	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 14:55	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 14:55	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 14:55	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 14:55	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 14:55	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 14:55	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 14:55	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 14:55	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 14:55	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 14:55	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 14:55	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:00  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-04  
**Lab Code:** R1803412-004

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 14:55	
Toluene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 14:55	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 14:55	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 14:55	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 14:55	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 14:55	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 14:55	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 14:55	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 14:55	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 14:55	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 14:55	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 14:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/20/18 14:55	
Dibromofluoromethane	95	89 - 119	04/20/18 14:55	
Toluene-d8	97	87 - 121	04/20/18 14:55	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:10  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-05  
**Lab Code:** R1803412-005

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 15:17	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 15:17	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 15:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 15:17	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 15:17	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 15:17	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 15:17	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 15:17	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 15:17	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 15:17	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 15:17	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,4-Dioxane	20 U	100	20	1	04/20/18 15:17	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 15:17	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 15:17	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 15:17	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 15:17	
Acetone	1.3 U	10	1.3	1	04/20/18 15:17	
Benzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 15:17	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 15:17	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 15:17	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 15:17	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 15:17	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 15:17	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 15:17	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 15:17	
Chloroform	<b>0.49 J</b>	5.0	0.25	1	04/20/18 15:17	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 15:17	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 15:17	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 15:17	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 15:17	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 15:17	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 15:17	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 15:17	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 15:17	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 15:17	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:10  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-05  
**Lab Code:** R1803412-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 15:17	
Toluene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 15:17	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 15:17	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 15:17	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 15:17	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 15:17	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 15:17	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 15:17	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 15:17	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 15:17	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 15:17	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 15:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/20/18 15:17	
Dibromofluoromethane	96	89 - 119	04/20/18 15:17	
Toluene-d8	98	87 - 121	04/20/18 15:17	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:20  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-06  
**Lab Code:** R1803412-006

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 15:39	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 15:39	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 15:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 15:39	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 15:39	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 15:39	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 15:39	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 15:39	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 15:39	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 15:39	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 15:39	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,4-Dioxane	20 U	100	20	1	04/20/18 15:39	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 15:39	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 15:39	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 15:39	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 15:39	
Acetone	1.3 U	10	1.3	1	04/20/18 15:39	
Benzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 15:39	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 15:39	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 15:39	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 15:39	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 15:39	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 15:39	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 15:39	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 15:39	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 15:39	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 15:39	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 15:39	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 15:39	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 15:39	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 15:39	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 15:39	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 15:39	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 15:39	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 15:39	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water  
**Sample Name:** MW-06  
**Lab Code:** R1803412-006

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:20  
**Date Received:** 04/17/18 16:25

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 15:39	
Toluene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 15:39	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 15:39	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 15:39	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 15:39	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 15:39	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 15:39	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 15:39	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 15:39	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 15:39	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 15:39	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 15:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	04/20/18 15:39	
Dibromofluoromethane	99	89 - 119	04/20/18 15:39	
Toluene-d8	101	87 - 121	04/20/18 15:39	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:40  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-07  
**Lab Code:** R1803412-007

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 16:01	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 16:01	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 16:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 16:01	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 16:01	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 16:01	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 16:01	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 16:01	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 16:01	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 16:01	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 16:01	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,4-Dioxane	20 U	100	20	1	04/20/18 16:01	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 16:01	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 16:01	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 16:01	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 16:01	
Acetone	<b>3.6 J</b>	10	1.3	1	04/20/18 16:01	
Benzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 16:01	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 16:01	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 16:01	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 16:01	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 16:01	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 16:01	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 16:01	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 16:01	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 16:01	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 16:01	
Cyclohexane	<b>0.56 J</b>	10	0.25	1	04/20/18 16:01	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 16:01	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 16:01	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 16:01	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 16:01	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 16:01	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 16:01	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 16:01	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:40  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-07  
**Lab Code:** R1803412-007

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 16:01	
Toluene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 16:01	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 16:01	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 16:01	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 16:01	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 16:01	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 16:01	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 16:01	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 16:01	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 16:01	
tert-Butylbenzene	<b>0.25 J</b>	5.0	0.20	1	04/20/18 16:01	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 16:01	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 16:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/20/18 16:01	
Dibromofluoromethane	100	89 - 119	04/20/18 16:01	
Toluene-d8	100	87 - 121	04/20/18 16:01	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 11:30  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-08  
**Lab Code:** R1803412-008

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 16:22	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 16:22	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 16:22	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 16:22	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 16:22	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 16:22	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 16:22	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 16:22	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 16:22	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 16:22	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 16:22	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,4-Dioxane	20 U	100	20	1	04/20/18 16:22	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 16:22	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 16:22	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 16:22	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 16:22	
Acetone	<b>2.9 J</b>	10	1.3	1	04/20/18 16:22	
Benzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 16:22	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 16:22	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 16:22	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 16:22	
Carbon Disulfide	<b>0.45 J</b>	10	0.22	1	04/20/18 16:22	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 16:22	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 16:22	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 16:22	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 16:22	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 16:22	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 16:22	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 16:22	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 16:22	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 16:22	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 16:22	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 16:22	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 16:22	
Methylcyclohexane	<b>0.29 J</b>	10	0.27	1	04/20/18 16:22	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 11:30  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-08  
**Lab Code:** R1803412-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 16:22	
Toluene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 16:22	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 16:22	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 16:22	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 16:22	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 16:22	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 16:22	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 16:22	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 16:22	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 16:22	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 16:22	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 16:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/20/18 16:22	
Dibromofluoromethane	98	89 - 119	04/20/18 16:22	
Toluene-d8	100	87 - 121	04/20/18 16:22	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.54	5.0	J

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18  
**Date Received:** 04/17/18 16:25

**Sample Name:** TBlank-2  
**Lab Code:** R1803412-009

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 13:26	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 13:26	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 13:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 13:26	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 13:26	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 13:26	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 13:26	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 13:26	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 13:26	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 13:26	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 13:26	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,4-Dioxane	20 U	100	20	1	04/20/18 13:26	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 13:26	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 13:26	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 13:26	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 13:26	
Acetone	2.8 J	10	1.3	1	04/20/18 13:26	
Benzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 13:26	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 13:26	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 13:26	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 13:26	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 13:26	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 13:26	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 13:26	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 13:26	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 13:26	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 13:26	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 13:26	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 13:26	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 13:26	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 13:26	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 13:26	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 13:26	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 13:26	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 13:26	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18  
**Date Received:** 04/17/18 16:25

**Sample Name:** TBlank-2  
**Lab Code:** R1803412-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 13:26	
Toluene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 13:26	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 13:26	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 13:26	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 13:26	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 13:26	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 13:26	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 13:26	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 13:26	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 13:26	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 13:26	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 13:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/20/18 13:26	
Dibromofluoromethane	100	89 - 119	04/20/18 13:26	
Toluene-d8	100	87 - 121	04/20/18 13:26	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
MW-01	R1803412-001	97	98	98
MW-02	R1803412-002	95	99	100
MW-03	R1803412-003	98	97	100
MW-04	R1803412-004	93	95	97
MW-05	R1803412-005	95	96	98
MW-06	R1803412-006	99	99	101
MW-07	R1803412-007	98	100	100
MW-08	R1803412-008	97	98	100
TBlank-2	R1803412-009	98	100	100
Lab Control Sample	RQ1803751-03	98	100	98
Method Blank	RQ1803751-05	97	98	99
MW-01 MS	RQ1803751-08	97	100	98
MW-01 DMS	RQ1803751-09	100	104	102

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18  
**Date Received:** 04/17/18  
**Date Analyzed:** 04/20/18

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-01  
**Lab Code:** R1803412-001  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ1803751-08			Duplicate Matrix Spike RQ1803751-09			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	0.36 U	51.1	50.0	102	52.9	50.0	106	74-127	4	30
1,1,2,2-Tetrachloroethane	0.25 U	54.0	50.0	108	56.6	50.0	113	72-122	5	30
1,1,2-Trichloroethane	0.34 U	51.8	50.0	104	55.4	50.0	111	79-119	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	46.2	50.0	92	48.5	50.0	97	59-131	5	30
1,1-Dichloroethane (1,1-DCA)	0.20 U	55.1	50.0	110	58.2	50.0	116	74-132	6	30
1,1-Dichloroethene (1,1-DCE)	0.57 U	49.8	50.0	100	52.1	50.0	104	74-139	5	30
1,2,3-Trichlorobenzene	0.82 U	49.1	50.0	98	51.2	50.0	102	54-143	4	30
1,2,4-Trichlorobenzene	0.23 U	49.8	50.0	100	50.8	50.0	102	56-140	2	30
1,2,4-Trimethylbenzene	0.20 U	51.4	50.0	103	53.6	50.0	107	47-153	4	30
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	50.9	50.0	102	52.7	50.0	105	65-137	4	30
1,2-Dibromoethane	0.24 U	50.8	50.0	102	51.6	50.0	103	80-117	2	30
1,2-Dichlorobenzene	0.21 U	49.0	50.0	98	51.6	50.0	103	77-120	5	30
1,2-Dichloroethane	0.36 U	54.9	50.0	110	57.3	50.0	115	68-130	4	30
1,2-Dichloropropane	0.20 U	55.7	50.0	111	58.2	50.0	116	79-124	4	30
1,3,5-Trimethylbenzene	0.20 U	50.6	50.0	101	51.5	50.0	103	49-149	2	30
1,3-Dichlorobenzene	0.20 U	48.7	50.0	97	50.9	50.0	102	74-125	4	30
1,4-Dichlorobenzene	0.20 U	47.6	50.0	95	49.2	50.0	98	72-124	3	30
1,4-Dioxane	20 U	1030	1000	103	1100	1000	110	48-143	6	30
2-Butanone (MEK)	0.81 U	53.7	50.0	107	55.0	50.0	110	46-141	2	30
2-Hexanone	1.7 U	58.2	50.0	116	58.4	50.0	117	56-132	<1	30
4-Isopropyltoluene	0.20 U	50.0	50.0	100	51.9	50.0	104	64-144	4	30
4-Methyl-2-pentanone	0.67 U	59.4	50.0	119	63.1	50.0	126	60-141	6	30
Acetone	2.0 J	45.5	50.0	87	49.8	50.0	95	29-151	9	30
Benzene	0.20 U	54.2	50.0	108	56.8	50.0	114	76-129	5	30
Bromochloromethane	0.32 U	50.2	50.0	100	52.1	50.0	104	82-125	4	30
Bromodichloromethane	0.32 U	52.1	50.0	104	55.0	50.0	110	76-127	6	30
Bromoform	0.42 U	50.5	50.0	101	52.6	50.0	105	58-133	4	30
Bromomethane	0.29 U	37.8	50.0	76	41.0	50.0	82	10-162	8	30
Carbon Disulfide	0.22 U	50.1	50.0	100	52.9	50.0	106	34-162	5	30
Carbon Tetrachloride	0.45 U	50.2	50.0	100	52.9	50.0	106	65-135	5	30
Chlorobenzene	0.29 U	50.4	50.0	101	51.2	50.0	102	76-125	2	30
Chloroethane	0.24 U	44.0	50.0	88	45.1	50.0	90	70-140	2	30
Chloroform	0.25 U	54.4	50.0	109	56.2	50.0	112	75-130	3	30
Chloromethane	0.21 U	52.8	50.0	106	56.3	50.0	113	55-160	6	30
Cyclohexane	0.25 U	52.1	50.0	104	55.1	50.0	110	52-145	6	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18  
**Date Received:** 04/17/18  
**Date Analyzed:** 04/20/18

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-01  
**Lab Code:** R1803412-001  
**Analysis Method:** 8260C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ1803751-08			Duplicate Matrix Spike RQ1803751-09			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Dibromochloromethane	0.31 U	52.1	50.0	104	53.9	50.0	108	72-128	3	30
Dichlorodifluoromethane (CFC 12)	0.46 U	62.2	50.0	124	63.8	50.0	128	49-154	3	30
Dichloromethane	0.60 U	49.9	50.0	100	50.9	50.0	102	75-121	2	30
Ethylbenzene	0.20 U	53.2	50.0	106	54.2	50.0	108	72-134	2	30
Isopropylbenzene (Cumene)	0.20 U	50.3	50.0	101	51.2	50.0	102	76-136	2	30
Methyl Acetate	0.43 U	52.4	50.0	105	55.4	50.0	111	36-146	6	30
Methyl tert-Butyl Ether	0.29 U	51.8	50.0	104	54.0	50.0	108	74-130	4	30
Methylcyclohexane	0.27 U	50.4	50.0	101	52.2	50.0	104	45-146	3	30
Styrene	0.20 U	52.0	50.0	104	52.9	50.0	106	34-156	2	30
Tetrachloroethene (PCE)	0.30 U	51.5	50.0	103	51.7	50.0	103	67-137	<1	30
Toluene	0.20 U	51.2	50.0	102	53.1	50.0	106	79-125	4	30
Trichloroethene (TCE)	0.22 U	49.3	50.0	99	51.6	50.0	103	62-142	5	30
Trichlorofluoromethane (CFC 11)	0.20 U	52.0	50.0	104	54.1	50.0	108	72-142	4	30
Vinyl Chloride	0.32 U	52.5	50.0	105	54.2	50.0	108	60-157	3	30
cis-1,2-Dichloroethene	0.30 U	50.6	50.0	101	53.1	50.0	106	72-133	5	30
cis-1,3-Dichloropropene	0.24 U	51.8	50.0	104	53.8	50.0	108	52-134	4	30
m,p-Xylenes	0.33 U	104	100	104	106	100	106	68-138	3	30
n-Butylbenzene	0.21 U	50.4	50.0	101	51.8	50.0	104	61-152	3	30
n-Propylbenzene	0.20 U	50.8	50.0	102	52.6	50.0	105	71-140	3	30
o-Xylene	0.20 U	50.3	50.0	101	51.7	50.0	103	68-134	3	30
sec-Butylbenzene	0.27 U	49.8	50.0	100	51.7	50.0	103	64-147	4	30
tert-Butylbenzene	0.20 U	49.5	50.0	99	51.6	50.0	103	63-143	4	30
trans-1,2-Dichloroethene	0.33 U	50.0	50.0	100	51.5	50.0	103	77-125	3	30
trans-1,3-Dichloropropene	0.20 U	51.6	50.0	103	54.4	50.0	109	50-142	5	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Analyzed:** 04/20/18 11:59

**Method Blank Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Method Blank  
**Lab Code:** RQ1803751-05  
**Analysis Method:** 8260C

**Instrument ID:** R-MS-10  
**File ID:** I:\ACQUADATA\msvoa10\data\042018\D2698.D\  
**Analysis Lot:** 588018

This Method Blank applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Lab Control Sample	RQ1803751-03	I:\ACQUADATA\msvoa10\data\042018\D2695.D\	04/20/18 10:49
TBlank-2	R1803412-009	I:\ACQUADATA\msvoa10\data\042018\D2702.D\	04/20/18 13:26
MW-01	R1803412-001	I:\ACQUADATA\msvoa10\data\042018\D2703.D\	04/20/18 13:50
MW-02	R1803412-002	I:\ACQUADATA\msvoa10\data\042018\D2704.D\	04/20/18 14:12
MW-03	R1803412-003	I:\ACQUADATA\msvoa10\data\042018\D2705.D\	04/20/18 14:34
MW-04	R1803412-004	I:\ACQUADATA\msvoa10\data\042018\D2706.D\	04/20/18 14:55
MW-05	R1803412-005	I:\ACQUADATA\msvoa10\data\042018\D2707.D\	04/20/18 15:17
MW-06	R1803412-006	I:\ACQUADATA\msvoa10\data\042018\D2708.D\	04/20/18 15:39
MW-07	R1803412-007	I:\ACQUADATA\msvoa10\data\042018\D2709.D\	04/20/18 16:01
MW-08	R1803412-008	I:\ACQUADATA\msvoa10\data\042018\D2710.D\	04/20/18 16:22
MW-01MS	RQ1803751-08	I:\ACQUADATA\msvoa10\data\042018\D2722.D\	04/20/18 20:43
MW-01DMS	RQ1803751-09	I:\ACQUADATA\msvoa10\data\042018\D2723.D\	04/20/18 21:05

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1803751-05

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 11:59	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 11:59	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 11:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 11:59	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 11:59	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 11:59	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 11:59	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 11:59	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 11:59	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 11:59	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 11:59	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 11:59	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 11:59	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
1,4-Dioxane	20 U	100	20	1	04/20/18 11:59	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 11:59	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 11:59	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 11:59	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 11:59	
Acetone	1.3 U	10	1.3	1	04/20/18 11:59	
Benzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 11:59	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 11:59	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 11:59	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 11:59	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 11:59	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 11:59	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 11:59	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 11:59	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 11:59	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 11:59	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 11:59	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 11:59	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 11:59	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 11:59	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 11:59	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 11:59	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 11:59	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 11:59	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1803751-05

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 11:59	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 11:59	
Toluene	0.20 U	5.0	0.20	1	04/20/18 11:59	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 11:59	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 11:59	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 11:59	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 11:59	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 11:59	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 11:59	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 11:59	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 11:59	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 11:59	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 11:59	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 11:59	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 11:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/20/18 11:59	
Dibromofluoromethane	98	89 - 119	04/20/18 11:59	
Toluene-d8	99	87 - 121	04/20/18 11:59	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Analyzed:** 04/20/18 10:49

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** Lab Control Sample

**Instrument ID:**R-MS-10

**Lab Code:** RQ1803751-03

**File ID:**I:\ACQUADATA\msvoa10\data\042018\D2695.D\

**Analysis Method:** 8260C

**Analysis Lot:**588018

This Lab Control Sample applies to the following analyses.

<b>Sample Name</b>	<b>Lab Code</b>	<b>File ID</b>	<b>Date Analyzed</b>
Method Blank	RQ1803751-05	I:\ACQUADATA\msvoa10\data\042018\D2698.D\	04/20/18 11:59
TBlank-2	R1803412-009	I:\ACQUADATA\msvoa10\data\042018\D2702.D\	04/20/18 13:26
MW-01	R1803412-001	I:\ACQUADATA\msvoa10\data\042018\D2703.D\	04/20/18 13:50
MW-02	R1803412-002	I:\ACQUADATA\msvoa10\data\042018\D2704.D\	04/20/18 14:12
MW-03	R1803412-003	I:\ACQUADATA\msvoa10\data\042018\D2705.D\	04/20/18 14:34
MW-04	R1803412-004	I:\ACQUADATA\msvoa10\data\042018\D2706.D\	04/20/18 14:55
MW-05	R1803412-005	I:\ACQUADATA\msvoa10\data\042018\D2707.D\	04/20/18 15:17
MW-06	R1803412-006	I:\ACQUADATA\msvoa10\data\042018\D2708.D\	04/20/18 15:39
MW-07	R1803412-007	I:\ACQUADATA\msvoa10\data\042018\D2709.D\	04/20/18 16:01
MW-08	R1803412-008	I:\ACQUADATA\msvoa10\data\042018\D2710.D\	04/20/18 16:22
MW-01MS	RQ1803751-08	I:\ACQUADATA\msvoa10\data\042018\D2722.D\	04/20/18 20:43
MW-01DMS	RQ1803751-09	I:\ACQUADATA\msvoa10\data\042018\D2723.D\	04/20/18 21:05

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Analyzed:** 04/20/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1803751-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.7	20.0	94	74-120
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-122
1,1,2-Trichloroethane	8260C	20.4	20.0	102	82-118
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	17.7	20.0	89	75-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.8	20.0	104	78-117
1,1-Dichloroethene (1,1-DCE)	8260C	18.7	20.0	93	74-135
1,2,3-Trichlorobenzene	8260C	20.3	20.0	102	56-164
1,2,4-Trichlorobenzene	8260C	20.9	20.0	104	68-147
1,2,4-Trimethylbenzene	8260C	20.1	20.0	100	81-123
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.7	20.0	94	55-149
1,2-Dibromoethane	8260C	19.3	20.0	96	81-125
1,2-Dichlorobenzene	8260C	19.8	20.0	99	80-119
1,2-Dichloroethane	8260C	21.4	20.0	107	71-127
1,2-Dichloropropane	8260C	21.3	20.0	106	80-119
1,3,5-Trimethylbenzene	8260C	19.7	20.0	98	79-123
1,3-Dichlorobenzene	8260C	19.7	20.0	98	79-121
1,4-Dichlorobenzene	8260C	19.2	20.0	96	79-119
1,4-Dioxane	8260C	397	400	99	69-151
2-Butanone (MEK)	8260C	19.4	20.0	97	61-137
2-Hexanone	8260C	19.7	20.0	99	63-124
4-Isopropyltoluene	8260C	19.6	20.0	98	77-131
4-Methyl-2-pentanone	8260C	21.2	20.0	106	66-124
Acetone	8260C	17.3	20.0	87	40-161
Benzene	8260C	20.5	20.0	103	76-118
Bromochloromethane	8260C	19.2	20.0	96	81-126
Bromodichloromethane	8260C	19.9	20.0	100	78-126
Bromoform	8260C	19.1	20.0	95	71-136
Bromomethane	8260C	14.7	20.0	73	42-166
Carbon Disulfide	8260C	19.0	20.0	95	65-127
Carbon Tetrachloride	8260C	19.2	20.0	96	68-125
Chlorobenzene	8260C	19.2	20.0	96	80-121
Chloroethane	8260C	15.6	20.0	78	70-127
Chloroform	8260C	20.4	20.0	102	76-120

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Analyzed:** 04/20/18

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1803751-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	19.9	20.0	99	69-145
Cyclohexane	8260C	18.6	20.0	93	63-121
Dibromochloromethane	8260C	19.7	20.0	99	77-128
Dichlorodifluoromethane (CFC 12)	8260C	23.8	20.0	119	65-152
Dichloromethane	8260C	19.0	20.0	95	73-122
Ethylbenzene	8260C	19.4	20.0	97	76-120
Isopropylbenzene (Cumene)	8260C	19.1	20.0	96	78-126
Methyl Acetate	8260C	19.7	20.0	99	62-131
Methyl tert-Butyl Ether	8260C	19.9	20.0	100	78-125
Methylcyclohexane	8260C	18.2	20.0	91	51-129
Styrene	8260C	19.4	20.0	97	80-124
Tetrachloroethene (PCE)	8260C	19.4	20.0	97	78-124
Toluene	8260C	19.5	20.0	97	77-120
Trichloroethene (TCE)	8260C	19.6	20.0	98	78-123
Trichlorofluoromethane (CFC 11)	8260C	19.5	20.0	97	68-126
Vinyl Chloride	8260C	19.3	20.0	96	69-133
cis-1,2-Dichloroethene	8260C	18.9	20.0	95	80-121
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	74-126
m,p-Xylenes	8260C	38.4	40.0	96	78-123
n-Butylbenzene	8260C	19.5	20.0	98	77-132
n-Propylbenzene	8260C	19.9	20.0	100	80-127
o-Xylene	8260C	19.4	20.0	97	80-120
sec-Butylbenzene	8260C	19.8	20.0	99	76-128
tert-Butylbenzene	8260C	19.3	20.0	96	76-126
trans-1,2-Dichloroethene	8260C	18.7	20.0	93	80-120
trans-1,3-Dichloropropene	8260C	19.4	20.0	97	67-135

**ALS Group USA, Corp.**  
dba ALS Environmental

QC/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803412  
**Date Analyzed:**04/20/18 09:09

**Tune Summary**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\msvoa10\data\042018\D2692.D\  
**Instrument ID:** R-MS-10

**Analytical Method:** 8260C  
**Analysis Lot:** 588018

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.10	28951	Pass
75	95	30	60	54.19	65104	Pass
95	95	100	100	100.00	120149	Pass
96	95	5	9	6.79	8158	Pass
173	174	0	2	1.56	1527	Pass
174	95	50	120	81.41	97819	Pass
175	174	5	9	7.86	7684	Pass
176	174	95	101	98.97	96811	Pass
177	176	5	9	6.75	6531	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1803751-02	I:\ACQUADATA\msvoa10\data\042018\D2693.D\	04/20/18 09:51	
Lab Control Sample	RQ1803751-03	I:\ACQUADATA\msvoa10\data\042018\D2695.D\	04/20/18 10:49	
Method Blank	RQ1803751-05	I:\ACQUADATA\msvoa10\data\042018\D2698.D\	04/20/18 11:59	
TBlank-2	R1803412-009	I:\ACQUADATA\msvoa10\data\042018\D2702.D\	04/20/18 13:26	
MW-01	R1803412-001	I:\ACQUADATA\msvoa10\data\042018\D2703.D\	04/20/18 13:50	
MW-02	R1803412-002	I:\ACQUADATA\msvoa10\data\042018\D2704.D\	04/20/18 14:12	
MW-03	R1803412-003	I:\ACQUADATA\msvoa10\data\042018\D2705.D\	04/20/18 14:34	
MW-04	R1803412-004	I:\ACQUADATA\msvoa10\data\042018\D2706.D\	04/20/18 14:55	
MW-05	R1803412-005	I:\ACQUADATA\msvoa10\data\042018\D2707.D\	04/20/18 15:17	
MW-06	R1803412-006	I:\ACQUADATA\msvoa10\data\042018\D2708.D\	04/20/18 15:39	
MW-07	R1803412-007	I:\ACQUADATA\msvoa10\data\042018\D2709.D\	04/20/18 16:01	
MW-08	R1803412-008	I:\ACQUADATA\msvoa10\data\042018\D2710.D\	04/20/18 16:22	
MW-01	RQ1803751-08	I:\ACQUADATA\msvoa10\data\042018\D2722.D\	04/20/18 20:43	
MW-01	RQ1803751-09	I:\ACQUADATA\msvoa10\data\042018\D2723.D\	04/20/18 21:05	



**ALS Group USA, Corp.**  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803412  
**Date Analyzed:**04/20/18 09:51

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\msvoa10\data\042018\D2693.D\  
**Instrument ID:** R-MS-10  
**Analysis Method:** 8260C

**Lab Code:**RQ1803751-02  
**Analysis Lot:**588018  
**Signal ID:**

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
<b>ICAL Result ==&gt;</b>	191,157	11.85	392,170	6.48	338,848	9.80
<b>Upper Limit ==&gt;</b>	382,314	12.35	784,340	6.98	677,696	10.30
<b>Lower Limit ==&gt;</b>	95,579	11.35	196,085	5.98	169,424	9.30

**Associated Analyses**

Sample Name	Lab Code	Area	RT	Area	RT	Area	RT
Lab Control Sample	RQ1803751-03	182609	11.85	394147	6.48	345350	9.80
Method Blank	RQ1803751-05	166248	11.85	369660	6.48	318754	9.80
TBlank-2	R1803412-009	159030	11.85	359695	6.48	308435	9.80
MW-01	R1803412-001	161819	11.85	372196	6.49	323203	9.80
MW-02	R1803412-002	161239	11.85	370402	6.48	318460	9.80
MW-03	R1803412-003	156330	11.85	360959	6.49	313261	9.80
MW-04	R1803412-004	158307	11.85	365003	6.49	316278	9.80
MW-05	R1803412-005	161022	11.85	366012	6.48	315235	9.80
MW-06	R1803412-006	158151	11.85	350181	6.49	305419	9.80
MW-07	R1803412-007	160094	11.85	357909	6.49	312498	9.80
MW-08	R1803412-008	154409	11.85	352515	6.49	301253	9.80
MW-01	RQ1803751-08	172644	11.85	358848	6.48	306749	9.80
MW-01	RQ1803751-09	171584	11.85	355520	6.48	314547	9.80

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803412  
**Date Analyzed:**04/20/18 09:51

**Internal Standard Area and RT SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**File ID:** I:\ACQUADATA\msvoa10\data\042018\D2693.D\  
**Instrument ID:** R-MS-10  
**Analysis Method:** 8260C

**Lab Code:**RQ1803751-02  
**Analysis Lot:**588018  
**Signal ID:**

	Pentafluorobenzene	
	Area	RT
<b>ICAL Result ==&gt;</b>	256,177	5.38
<b>Upper Limit ==&gt;</b>	512,354	5.88
<b>Lower Limit ==&gt;</b>	128,089	4.88

*Associated Analyses*

Lab Control Sample	RQ1803751-03	266288	5.38
Method Blank	RQ1803751-05	242552	5.38
TBlank-2	R1803412-009	234462	5.38
MW-01	R1803412-001	242066	5.38
MW-02	R1803412-002	241470	5.38
MW-03	R1803412-003	235443	5.38
MW-04	R1803412-004	236827	5.38
MW-05	R1803412-005	238862	5.38
MW-06	R1803412-006	230358	5.38
MW-07	R1803412-007	236457	5.38
MW-08	R1803412-008	227350	5.38
MW-01	RQ1803751-08	234581	5.38
MW-01	RQ1803751-09	233780	5.38



## Raw Data

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:10  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-01  
**Lab Code:** R1803412-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 13:50	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 13:50	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 13:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 13:50	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 13:50	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 13:50	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 13:50	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 13:50	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 13:50	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 13:50	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 13:50	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
1,4-Dioxane	20 U	100	20	1	04/20/18 13:50	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 13:50	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 13:50	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 13:50	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 13:50	
Acetone	2.0 J	10	1.3	1	04/20/18 13:50	
Benzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 13:50	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 13:50	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 13:50	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 13:50	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 13:50	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 13:50	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 13:50	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 13:50	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 13:50	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 13:50	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 13:50	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 13:50	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 13:50	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 13:50	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 13:50	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 13:50	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 13:50	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 13:50	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water  
**Sample Name:** MW-01  
**Lab Code:** R1803412-001

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:10  
**Date Received:** 04/17/18 16:25

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 13:50	
Toluene	0.20 U	5.0	0.20	1	04/20/18 13:50	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 13:50	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 13:50	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 13:50	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 13:50	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 13:50	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 13:50	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 13:50	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 13:50	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 13:50	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:50	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 13:50	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 13:50	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/20/18 13:50	
Dibromofluoromethane	98	89 - 119	04/20/18 13:50	
Toluene-d8	98	87 - 121	04/20/18 13:50	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:45  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-02  
**Lab Code:** R1803412-002

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 14:12	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 14:12	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 14:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 14:12	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 14:12	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 14:12	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 14:12	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 14:12	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 14:12	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 14:12	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 14:12	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
1,4-Dioxane	20 U	100	20	1	04/20/18 14:12	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 14:12	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 14:12	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 14:12	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 14:12	
Acetone	1.4 J	10	1.3	1	04/20/18 14:12	
Benzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 14:12	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 14:12	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 14:12	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 14:12	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 14:12	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 14:12	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 14:12	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 14:12	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 14:12	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 14:12	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 14:12	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 14:12	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 14:12	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 14:12	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 14:12	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 14:12	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 14:12	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 14:12	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:45  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-02  
**Lab Code:** R1803412-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 14:12	
Toluene	0.20 U	5.0	0.20	1	04/20/18 14:12	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 14:12	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 14:12	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 14:12	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 14:12	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 14:12	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 14:12	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 14:12	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 14:12	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 14:12	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:12	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 14:12	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 14:12	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/20/18 14:12	
Dibromofluoromethane	99	89 - 119	04/20/18 14:12	
Toluene-d8	100	87 - 121	04/20/18 14:12	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
000091-20-3	Naphthalene	13.65	12.2	JN



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:30  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-03  
**Lab Code:** R1803412-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 14:34	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 14:34	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 14:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 14:34	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 14:34	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 14:34	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 14:34	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 14:34	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 14:34	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 14:34	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 14:34	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
1,4-Dioxane	20 U	100	20	1	04/20/18 14:34	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 14:34	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 14:34	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 14:34	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 14:34	
Acetone	1.3 U	10	1.3	1	04/20/18 14:34	
Benzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 14:34	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 14:34	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 14:34	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 14:34	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 14:34	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 14:34	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 14:34	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 14:34	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 14:34	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 14:34	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 14:34	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 14:34	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 14:34	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 14:34	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 14:34	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 14:34	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 14:34	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 14:34	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water  
**Sample Name:** MW-03  
**Lab Code:** R1803412-003

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:30  
**Date Received:** 04/17/18 16:25  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 14:34	
Toluene	0.20 U	5.0	0.20	1	04/20/18 14:34	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 14:34	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 14:34	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 14:34	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 14:34	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 14:34	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 14:34	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 14:34	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 14:34	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 14:34	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:34	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 14:34	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 14:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/20/18 14:34	
Dibromofluoromethane	97	89 - 119	04/20/18 14:34	
Toluene-d8	100	87 - 121	04/20/18 14:34	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:00  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-04  
**Lab Code:** R1803412-004

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 14:55	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 14:55	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 14:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 14:55	
1,1-Dichloroethane (1,1-DCA)	<b>0.34 J</b>	5.0	0.20	1	04/20/18 14:55	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 14:55	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 14:55	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 14:55	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 14:55	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 14:55	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 14:55	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 14:55	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
1,4-Dioxane	20 U	100	20	1	04/20/18 14:55	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 14:55	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 14:55	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 14:55	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 14:55	
Acetone	<b>1.7 J</b>	10	1.3	1	04/20/18 14:55	
Benzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 14:55	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 14:55	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 14:55	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 14:55	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 14:55	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 14:55	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 14:55	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 14:55	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 14:55	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 14:55	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 14:55	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 14:55	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 14:55	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 14:55	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 14:55	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 14:55	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 14:55	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 14:55	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:00  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-04  
**Lab Code:** R1803412-004

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 14:55	
Toluene	0.20 U	5.0	0.20	1	04/20/18 14:55	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 14:55	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 14:55	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 14:55	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 14:55	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 14:55	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 14:55	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 14:55	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 14:55	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 14:55	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 14:55	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 14:55	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 14:55	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/20/18 14:55	
Dibromofluoromethane	95	89 - 119	04/20/18 14:55	
Toluene-d8	97	87 - 121	04/20/18 14:55	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:10  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-05  
**Lab Code:** R1803412-005

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 15:17	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 15:17	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 15:17	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 15:17	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 15:17	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 15:17	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 15:17	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 15:17	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 15:17	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 15:17	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 15:17	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
1,4-Dioxane	20 U	100	20	1	04/20/18 15:17	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 15:17	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 15:17	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 15:17	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 15:17	
Acetone	1.3 U	10	1.3	1	04/20/18 15:17	
Benzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 15:17	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 15:17	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 15:17	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 15:17	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 15:17	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 15:17	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 15:17	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 15:17	
Chloroform	0.49 J	5.0	0.25	1	04/20/18 15:17	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 15:17	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 15:17	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 15:17	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 15:17	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 15:17	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 15:17	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 15:17	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 15:17	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 15:17	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:10  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-05  
**Lab Code:** R1803412-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 15:17	
Toluene	0.20 U	5.0	0.20	1	04/20/18 15:17	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 15:17	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 15:17	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 15:17	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 15:17	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 15:17	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 15:17	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 15:17	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 15:17	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 15:17	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:17	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 15:17	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 15:17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/20/18 15:17	
Dibromofluoromethane	96	89 - 119	04/20/18 15:17	
Toluene-d8	98	87 - 121	04/20/18 15:17	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:20  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-06  
**Lab Code:** R1803412-006

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 15:39	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 15:39	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 15:39	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 15:39	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 15:39	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 15:39	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 15:39	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 15:39	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 15:39	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 15:39	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 15:39	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
1,4-Dioxane	20 U	100	20	1	04/20/18 15:39	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 15:39	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 15:39	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 15:39	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 15:39	
Acetone	1.3 U	10	1.3	1	04/20/18 15:39	
Benzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 15:39	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 15:39	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 15:39	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 15:39	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 15:39	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 15:39	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 15:39	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 15:39	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 15:39	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 15:39	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 15:39	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 15:39	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 15:39	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 15:39	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 15:39	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 15:39	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 15:39	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 15:39	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water  
**Sample Name:** MW-06  
**Lab Code:** R1803412-006

**Service Request:** R1803412  
**Date Collected:** 04/16/18 16:20  
**Date Received:** 04/17/18 16:25  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 15:39	
Toluene	0.20 U	5.0	0.20	1	04/20/18 15:39	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 15:39	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 15:39	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 15:39	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 15:39	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 15:39	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 15:39	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 15:39	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 15:39	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 15:39	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 15:39	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 15:39	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 15:39	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	04/20/18 15:39	
Dibromofluoromethane	99	89 - 119	04/20/18 15:39	
Toluene-d8	101	87 - 121	04/20/18 15:39	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:40  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-07  
**Lab Code:** R1803412-007

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 16:01	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 16:01	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 16:01	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 16:01	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 16:01	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 16:01	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 16:01	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 16:01	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 16:01	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 16:01	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 16:01	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
1,4-Dioxane	20 U	100	20	1	04/20/18 16:01	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 16:01	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 16:01	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 16:01	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 16:01	
Acetone	3.6 J	10	1.3	1	04/20/18 16:01	
Benzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 16:01	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 16:01	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 16:01	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 16:01	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 16:01	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 16:01	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 16:01	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 16:01	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 16:01	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 16:01	
Cyclohexane	0.56 J	10	0.25	1	04/20/18 16:01	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 16:01	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 16:01	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 16:01	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 16:01	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 16:01	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 16:01	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 16:01	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 15:40  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-07  
**Lab Code:** R1803412-007

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 16:01	
Toluene	0.20 U	5.0	0.20	1	04/20/18 16:01	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 16:01	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 16:01	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 16:01	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 16:01	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 16:01	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 16:01	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 16:01	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:01	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 16:01	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 16:01	
tert-Butylbenzene	<b>0.25 J</b>	5.0	0.20	1	04/20/18 16:01	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 16:01	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 16:01	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/20/18 16:01	
Dibromofluoromethane	100	89 - 119	04/20/18 16:01	
Toluene-d8	100	87 - 121	04/20/18 16:01	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18 11:30  
**Date Received:** 04/17/18 16:25

**Sample Name:** MW-08  
**Lab Code:** R1803412-008

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 16:22	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 16:22	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 16:22	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 16:22	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 16:22	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 16:22	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 16:22	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 16:22	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 16:22	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 16:22	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 16:22	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
1,4-Dioxane	20 U	100	20	1	04/20/18 16:22	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 16:22	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 16:22	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 16:22	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 16:22	
Acetone	<b>2.9 J</b>	10	1.3	1	04/20/18 16:22	
Benzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 16:22	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 16:22	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 16:22	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 16:22	
Carbon Disulfide	<b>0.45 J</b>	10	0.22	1	04/20/18 16:22	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 16:22	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 16:22	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 16:22	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 16:22	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 16:22	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 16:22	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 16:22	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 16:22	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 16:22	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 16:22	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 16:22	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 16:22	
Methylcyclohexane	<b>0.29 J</b>	10	0.27	1	04/20/18 16:22	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water  
**Sample Name:** MW-08  
**Lab Code:** R1803412-008

**Service Request:** R1803412  
**Date Collected:** 04/16/18 11:30  
**Date Received:** 04/17/18 16:25

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 16:22	
Toluene	0.20 U	5.0	0.20	1	04/20/18 16:22	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 16:22	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 16:22	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 16:22	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 16:22	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 16:22	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 16:22	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 16:22	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 16:22	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 16:22	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 16:22	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 16:22	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 16:22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/20/18 16:22	
Dibromofluoromethane	98	89 - 119	04/20/18 16:22	
Toluene-d8	100	87 - 121	04/20/18 16:22	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	unknown	1.54	5.0	J

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18  
**Date Received:** 04/17/18 16:25

**Sample Name:** TBlank-2  
**Lab Code:** R1803412-009

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.36 U	5.0	0.36	1	04/20/18 13:26	
1,1,2,2-Tetrachloroethane	0.25 U	5.0	0.25	1	04/20/18 13:26	
1,1,2-Trichloroethane	0.34 U	5.0	0.34	1	04/20/18 13:26	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.31 U	5.0	0.31	1	04/20/18 13:26	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,1-Dichloroethene (1,1-DCE)	0.57 U	5.0	0.57	1	04/20/18 13:26	
1,2,3-Trichlorobenzene	0.82 U	5.0	0.82	1	04/20/18 13:26	
1,2,4-Trichlorobenzene	0.23 U	5.0	0.23	1	04/20/18 13:26	
1,2,4-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,2-Dibromo-3-chloropropane (DBCP)	0.74 U	5.0	0.74	1	04/20/18 13:26	
1,2-Dibromoethane	0.24 U	5.0	0.24	1	04/20/18 13:26	
1,2-Dichlorobenzene	0.21 U	5.0	0.21	1	04/20/18 13:26	
1,2-Dichloroethane	0.36 U	5.0	0.36	1	04/20/18 13:26	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,3,5-Trimethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
1,4-Dioxane	20 U	100	20	1	04/20/18 13:26	
2-Butanone (MEK)	0.81 U	10	0.81	1	04/20/18 13:26	
2-Hexanone	1.7 U	10	1.7	1	04/20/18 13:26	
4-Isopropyltoluene	0.20 U	5.0	0.20	1	04/20/18 13:26	
4-Methyl-2-pentanone	0.67 U	10	0.67	1	04/20/18 13:26	
Acetone	2.8 J	10	1.3	1	04/20/18 13:26	
Benzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Bromochloromethane	0.32 U	5.0	0.32	1	04/20/18 13:26	
Bromodichloromethane	0.32 U	5.0	0.32	1	04/20/18 13:26	
Bromoform	0.42 U	5.0	0.42	1	04/20/18 13:26	
Bromomethane	0.29 U	5.0	0.29	1	04/20/18 13:26	
Carbon Disulfide	0.22 U	10	0.22	1	04/20/18 13:26	
Carbon Tetrachloride	0.45 U	5.0	0.45	1	04/20/18 13:26	
Chlorobenzene	0.29 U	5.0	0.29	1	04/20/18 13:26	
Chloroethane	0.24 U	5.0	0.24	1	04/20/18 13:26	
Chloroform	0.25 U	5.0	0.25	1	04/20/18 13:26	
Chloromethane	0.21 U	5.0	0.21	1	04/20/18 13:26	
Cyclohexane	0.25 U	10	0.25	1	04/20/18 13:26	
Dibromochloromethane	0.31 U	5.0	0.31	1	04/20/18 13:26	
Dichlorodifluoromethane (CFC 12)	0.46 U	5.0	0.46	1	04/20/18 13:26	
Dichloromethane	0.60 U	5.0	0.60	1	04/20/18 13:26	
Ethylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	04/20/18 13:26	
Methyl Acetate	0.43 U	10	0.43	1	04/20/18 13:26	
Methyl tert-Butyl Ether	0.29 U	5.0	0.29	1	04/20/18 13:26	
Methylcyclohexane	0.27 U	10	0.27	1	04/20/18 13:26	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Water

**Service Request:** R1803412  
**Date Collected:** 04/16/18  
**Date Received:** 04/17/18 16:25

**Sample Name:** TBlank-2  
**Lab Code:** R1803412-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Styrene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Tetrachloroethene (PCE)	0.30 U	5.0	0.30	1	04/20/18 13:26	
Toluene	0.20 U	5.0	0.20	1	04/20/18 13:26	
Trichloroethene (TCE)	0.22 U	5.0	0.22	1	04/20/18 13:26	
Trichlorofluoromethane (CFC 11)	0.20 U	5.0	0.20	1	04/20/18 13:26	
Vinyl Chloride	0.32 U	5.0	0.32	1	04/20/18 13:26	
cis-1,2-Dichloroethene	0.30 U	5.0	0.30	1	04/20/18 13:26	
cis-1,3-Dichloropropene	0.24 U	5.0	0.24	1	04/20/18 13:26	
m,p-Xylenes	0.33 U	5.0	0.33	1	04/20/18 13:26	
n-Butylbenzene	0.21 U	5.0	0.21	1	04/20/18 13:26	
n-Propylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
o-Xylene	0.20 U	5.0	0.20	1	04/20/18 13:26	
sec-Butylbenzene	0.27 U	5.0	0.27	1	04/20/18 13:26	
tert-Butylbenzene	0.20 U	5.0	0.20	1	04/20/18 13:26	
trans-1,2-Dichloroethene	0.33 U	5.0	0.33	1	04/20/18 13:26	
trans-1,3-Dichloropropene	0.20 U	5.0	0.20	1	04/20/18 13:26	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	04/20/18 13:26	
Dibromofluoromethane	100	89 - 119	04/20/18 13:26	
Toluene-d8	100	87 - 121	04/20/18 13:26	

**Tentatively Identified Compounds**

CAS#	Compound Identification	RT	Result ug/L	Q
	No Tentatively Identified Compounds Detected			

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2703.D  
 Acq On : 20 Apr 2018 1:50 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 13:34:03 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	242066	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	372196	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	323203	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	161819	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	115529	48.95	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.90%	
46) surr1,1,2-dichloroetha...	5.781	65	163024	52.12	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	104.24%	
64) SURR3,Toluene-d8	8.305	98	462015	48.82	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	97.64%	
69) SURR2,BFB	10.878	95	180637	48.62	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.24%	
Target Compounds						
5) Bromomethane	1.587	94	461	Below Cal		Qvalue 81
15) Acetone	2.324	43	3255	2.01	ug/L	82
16) 2-Propanol	2.465	45	1725	5.06	ug/L #	57

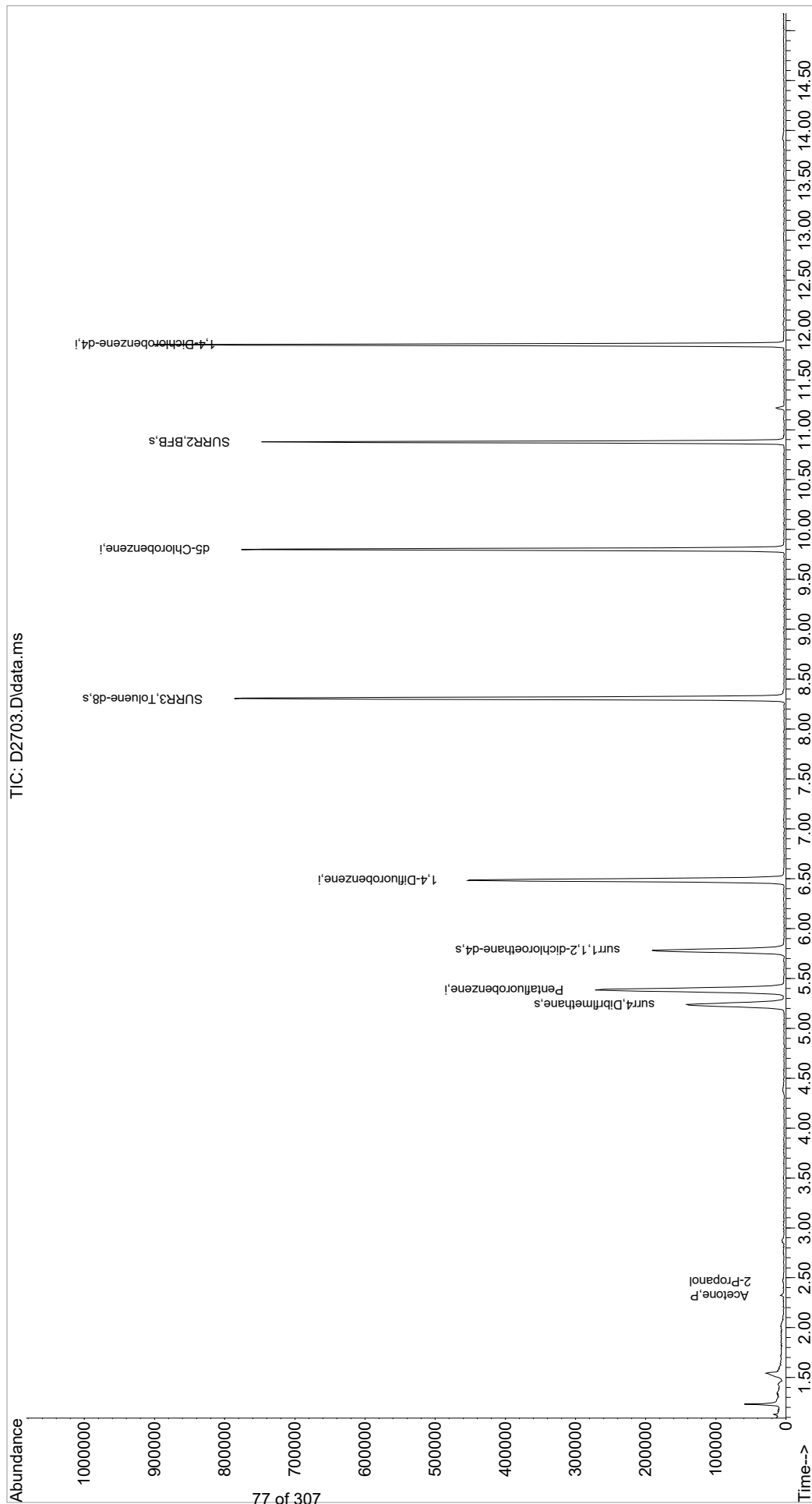
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

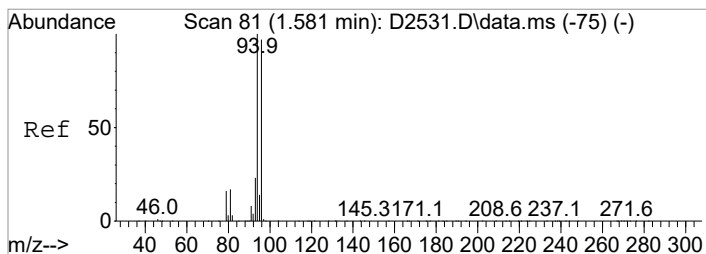
Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2703.D  
Acq On : 20 Apr 2018 1:50 pm  
Operator : D.LIPANI  
Sample : R1803412-001|1.0  
Misc : DAY 12666 T4  
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 23 13:34:03 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

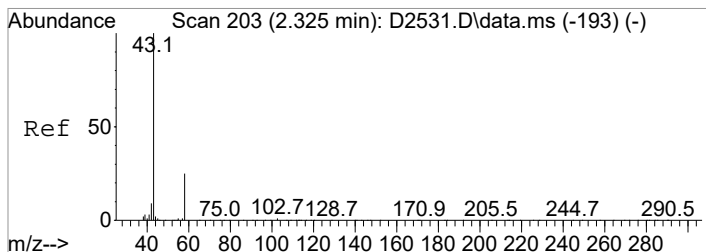
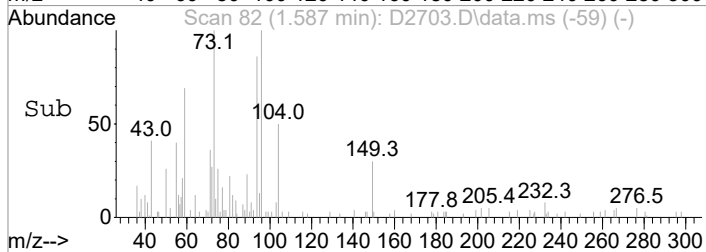
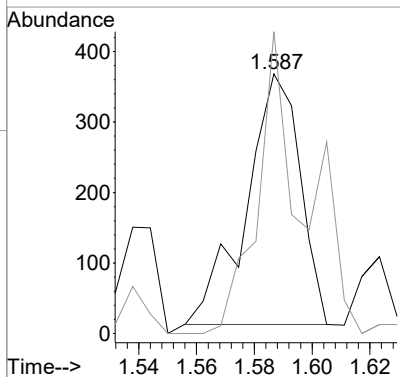
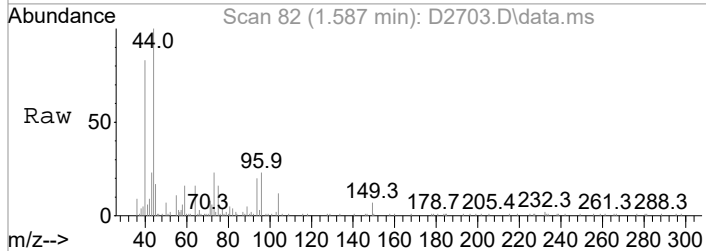






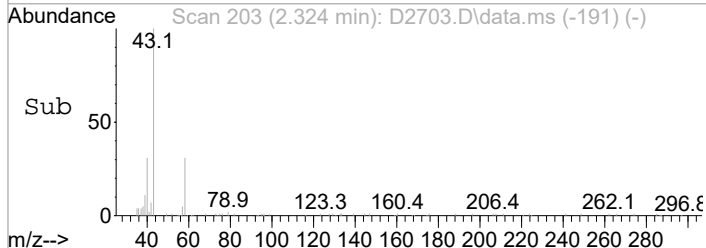
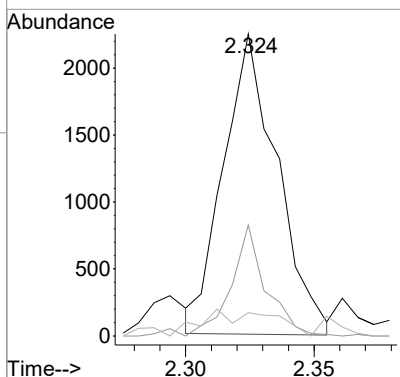
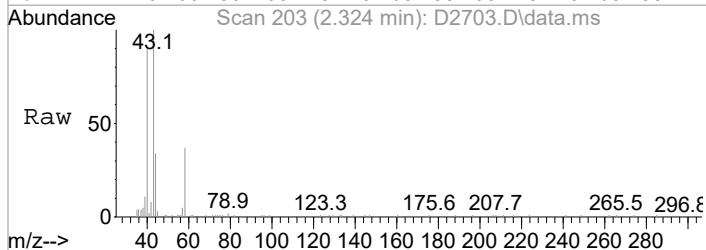
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.587 min Scan# 82  
 Delta R.T. 0.001 min  
 Lab File: D2703.D  
 Acq: 20 Apr 2018 1:50 pm

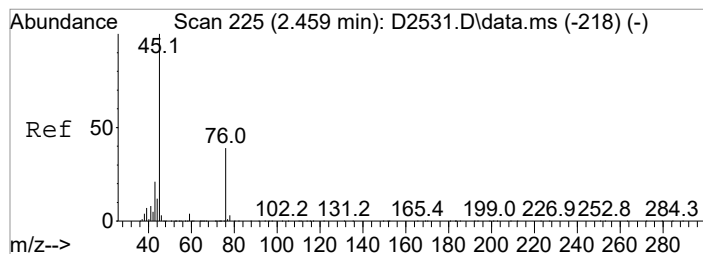
Tgt Ion: 94 Resp: 461  
 Ion Ratio Lower Upper  
 94 100  
 96 116.3 77.7 117.7



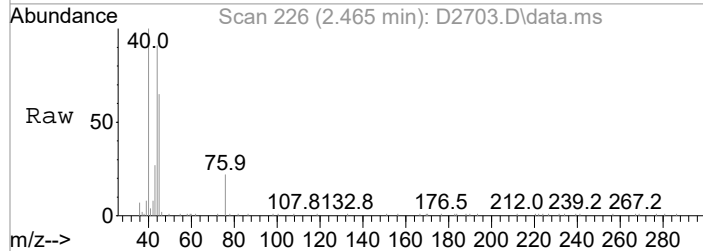
#15  
 Acetone  
 Concen: 2.01 ug/L  
 RT: 2.324 min Scan# 203  
 Delta R.T. -0.000 min  
 Lab File: D2703.D  
 Acq: 20 Apr 2018 1:50 pm

Tgt Ion: 43 Resp: 3255  
 Ion Ratio Lower Upper  
 43 100  
 58 36.7 5.2 45.2  
 42 7.7 0.0 29.2

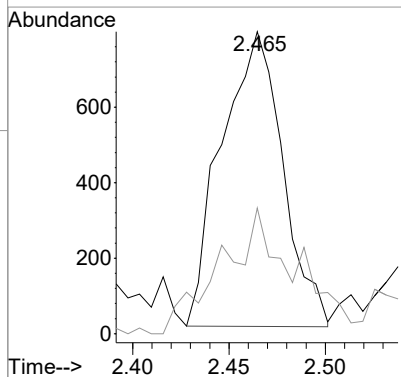
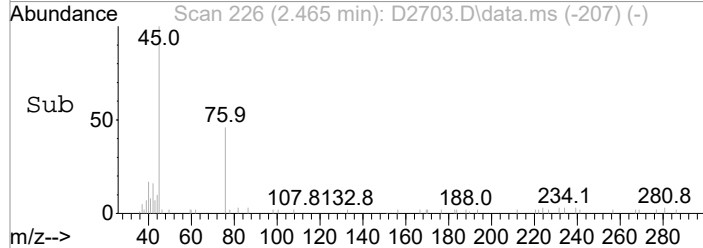




#16  
2-Propanol  
Concen: 5.06 ug/L  
RT: 2.465 min Scan# 226  
Delta R.T. 0.007 min  
Lab File: D2703.D  
Acq: 20 Apr 2018 1:50 pm



Tgt Ion: 45 Resp: 1725  
Ion Ratio Lower Upper  
45 100  
43 41.6 1.3 41.3#



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2703.D  
 Acq On : 20 Apr 2018 1:50 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2703.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.233	19	24	36	rBV2	49078	57324	4.43%	0.819%
2	1.544	62	75	78	rBV5	22908	56979	4.41%	0.814%
3	5.238	667	681	693	rBV2	139073	386334	29.88%	5.522%
4	5.385	695	705	718	rVB2	268781	713601	55.18%	10.199%
5	5.781	760	770	781	rBV	188458	452553	35.00%	6.468%
6	6.482	875	885	897	rBV	450616	920335	71.17%	13.154%
7	8.305	1175	1184	1194	rBV	783872	1293161	100.00%	18.483%
8	9.799	1423	1429	1440	rBV	773432	1094545	84.64%	15.644%
9	10.878	1600	1606	1613	rBV	744249	916742	70.89%	13.103%
10	11.219	1656	1662	1666	rBV3	11762	16166	1.25%	0.231%
11	11.853	1760	1766	1772	rBV	899339	1088915	84.21%	15.563%

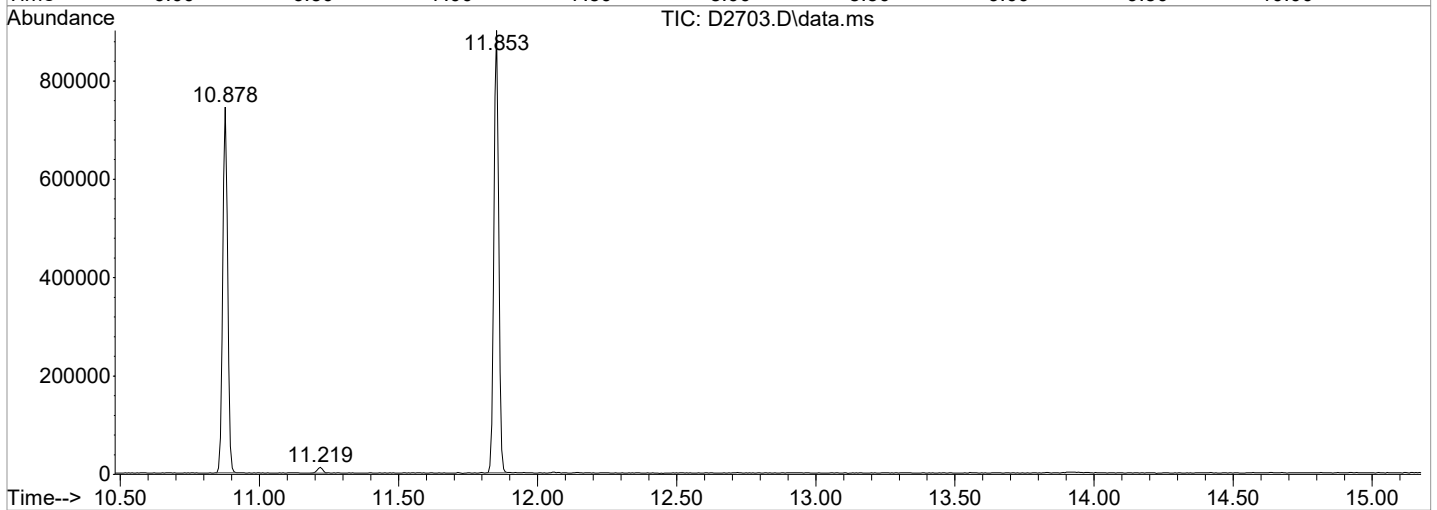
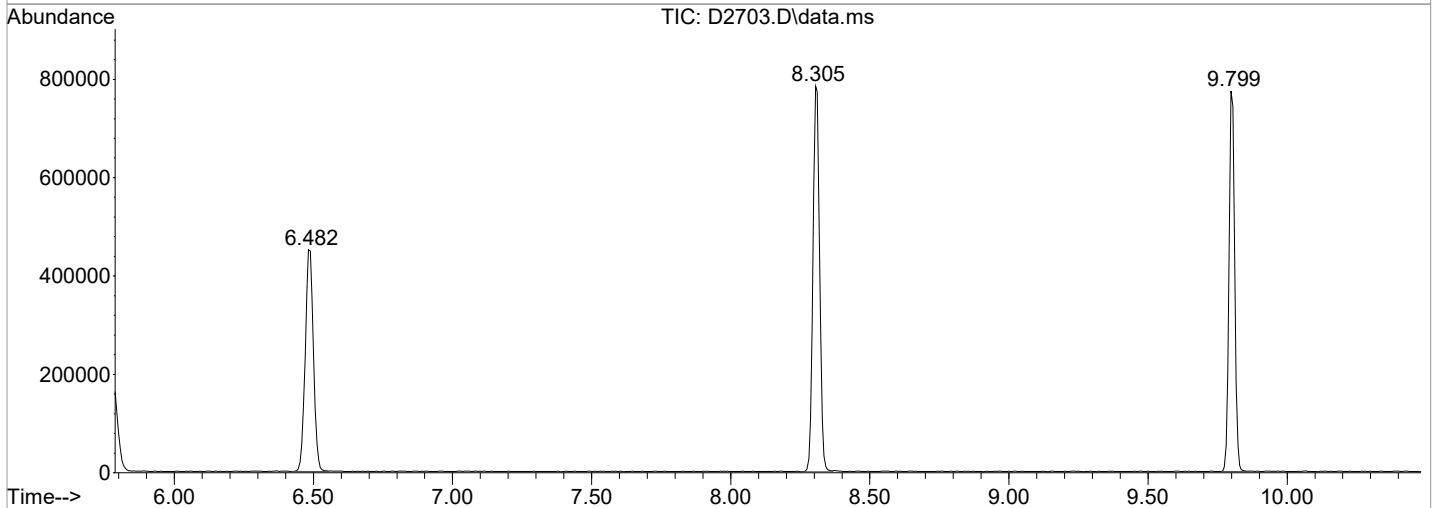
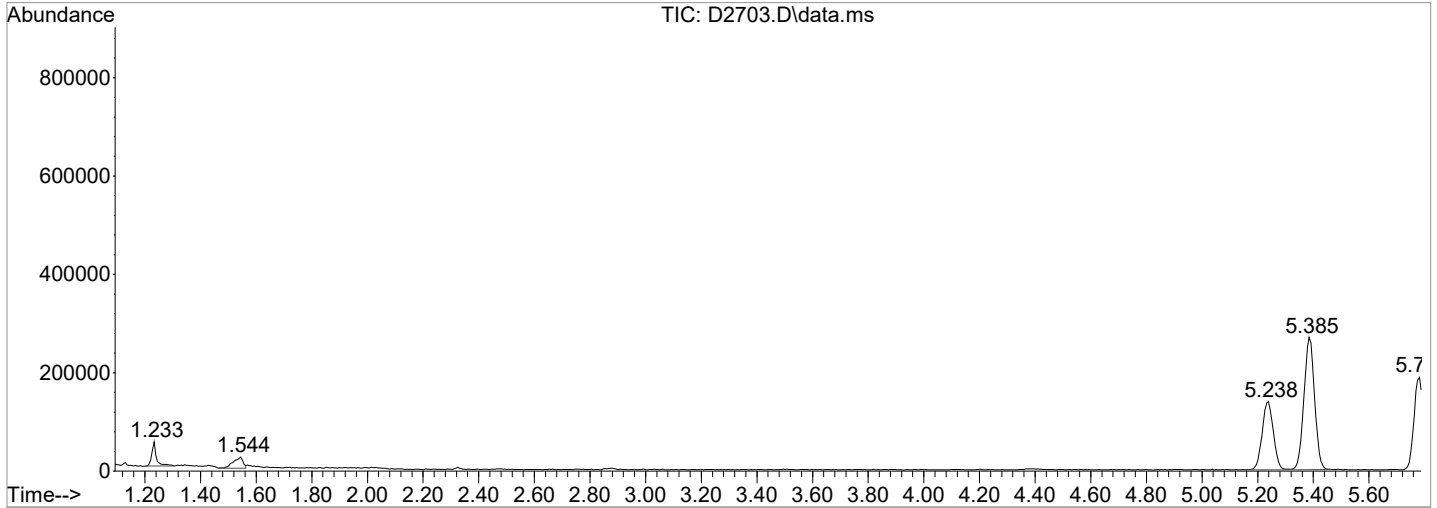
Sum of corrected areas: 6996655

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2703.D  
Acq On : 20 Apr 2018 1:50 pm  
Operator : D.LIPANI  
Sample : R1803412-001|1.0  
Misc : DAY 12666 T4  
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2703.D  
Acq On : 20 Apr 2018 1:50 pmm  
Operator : D.LIPANII  
Sample : R1803412-001|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 14 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2704.D  
 Acq On : 20 Apr 2018 2:12 pm  
 Operator : D.LIPANI  
 Sample : R1803412-002|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 13:37:38 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	241470	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	370402	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	318460	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	161239	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.232	113	116516	49.60	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.20%	
46) surr1,1,2-dichloroetha...	5.775	65	166762	53.57	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.14%	
64) SURR3,Toluene-d8	8.305	98	469775	49.88	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.76%	
69) SURR2,BFB	10.878	95	175980	47.60	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	95.20%	
Target Compounds						
5) Bromomethane	1.587	94	385	Below Cal		97
15) Acetone	2.318	43	2279	1.41	ug/L	96
23) TBA	2.867	59	1138	2.24	ug/L	85
116) Naphthalen	13.645	128	121609	12.14	ug/L	99

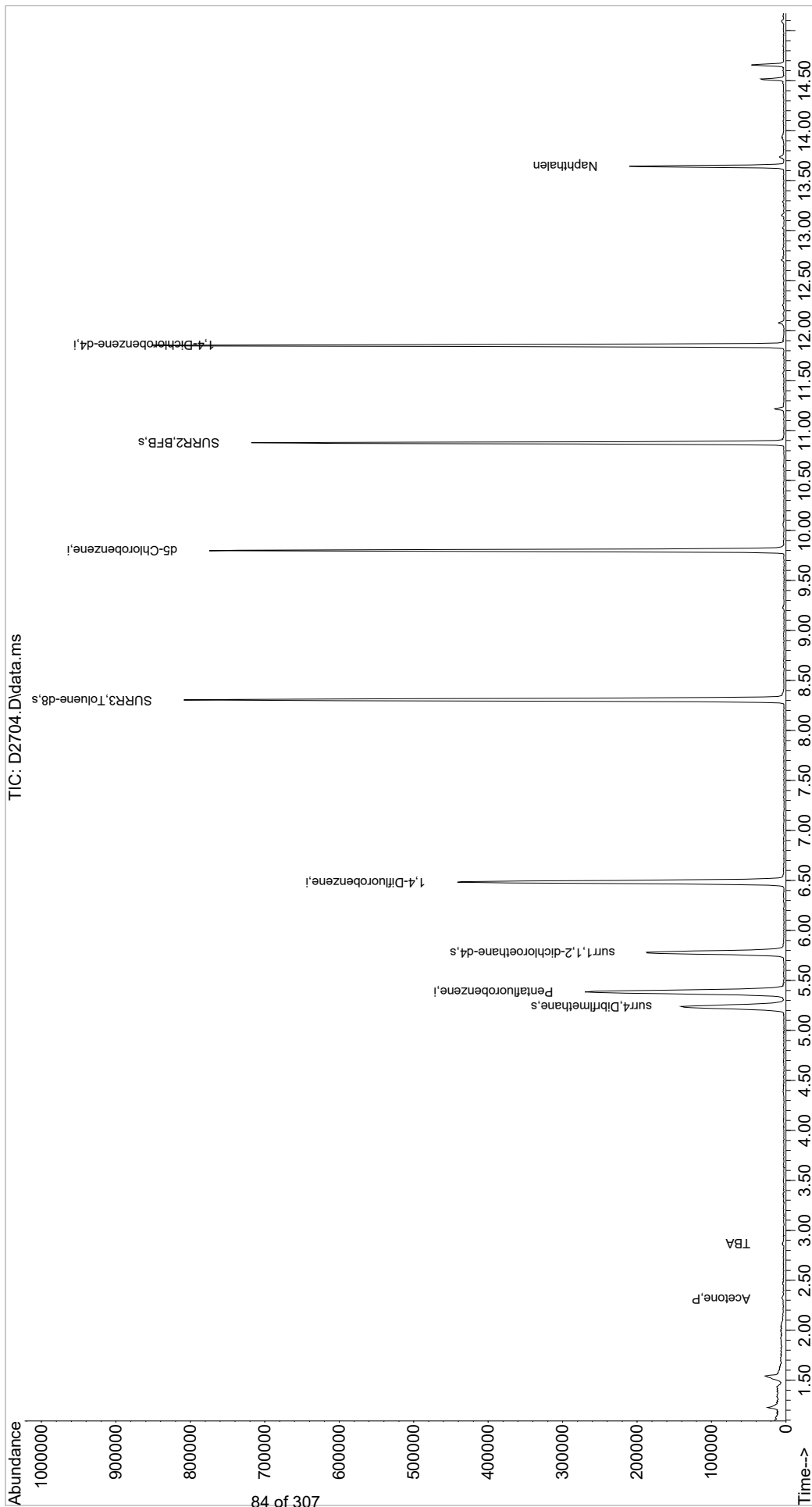
(#) = qualifier out of range (m) = manual integration (+) = signals summed

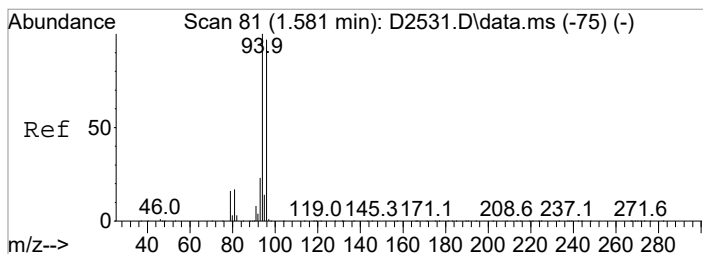
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\042018\  
Data File : D2704.D  
Acq On : 20 Apr 2018 2:12 pm  
Operator : D.LIPANI  
Sample : R1803412-002|1.0  
Misc : DAY 12666 T4  
ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

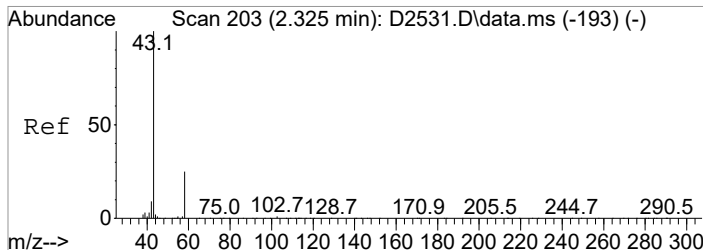
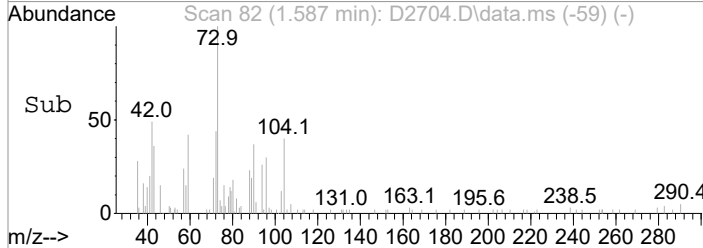
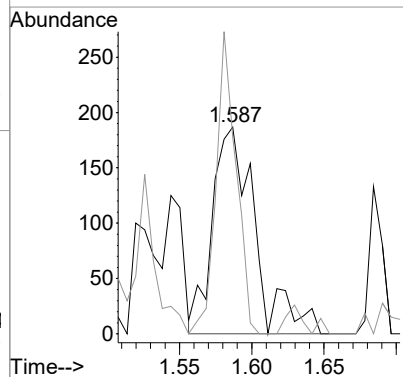
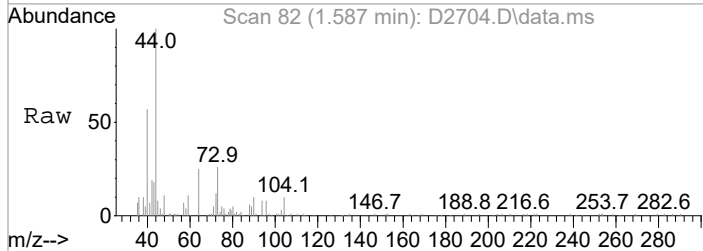
Quant Time: Apr 23 13:37:38 2018  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





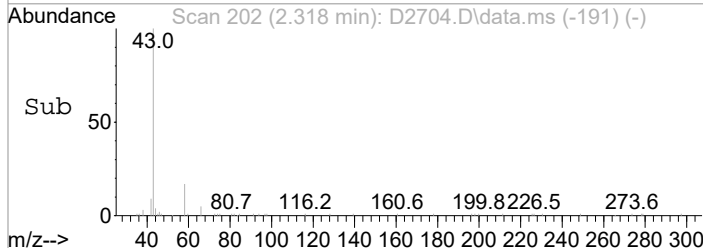
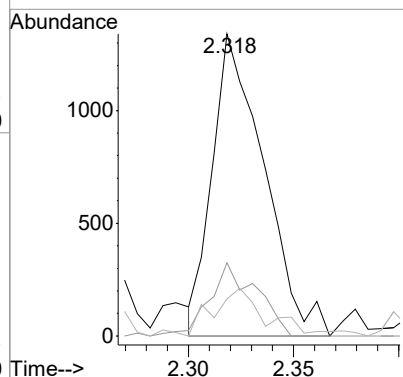
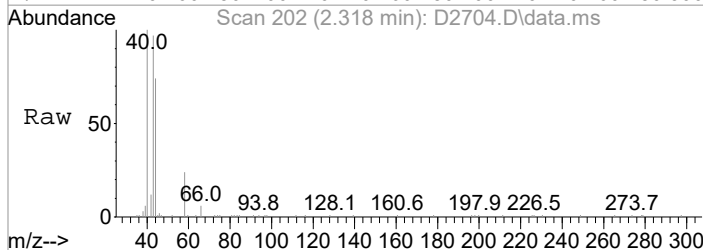
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.587 min Scan# 82  
 Delta R.T. 0.001 min  
 Lab File: D2704.D  
 Acq: 20 Apr 2018 2:12 pm

Tgt Ion	94	Resp	385
Ion Ratio	Lower	Upper	
94	100		
96	95.2	77.7	117.7

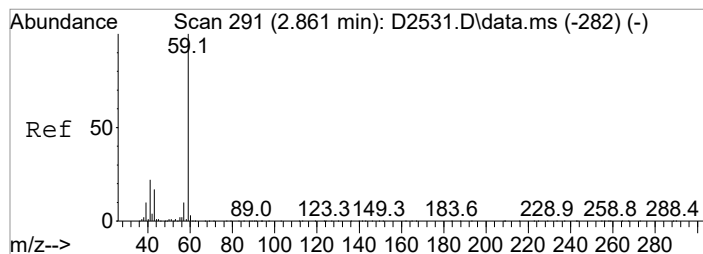


#15  
 Acetone  
 Concen: 1.41 ug/L  
 RT: 2.318 min Scan# 202  
 Delta R.T. -0.006 min  
 Lab File: D2704.D  
 Acq: 20 Apr 2018 2:12 pm

Tgt Ion	43	Resp	2279
Ion Ratio	Lower	Upper	
43	100		
58	24.3	5.2	45.2
42	12.3	0.0	29.2

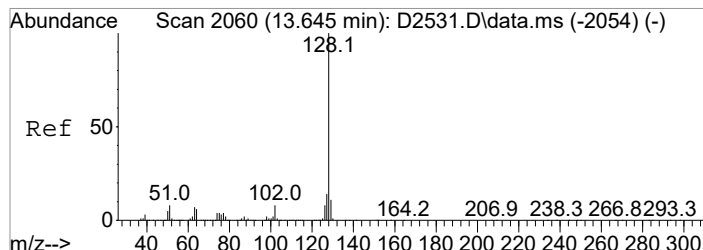
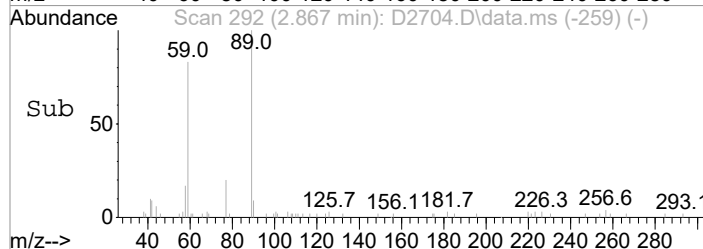
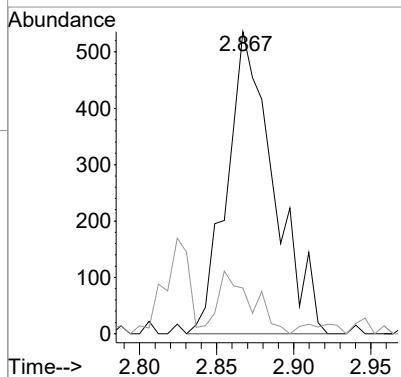
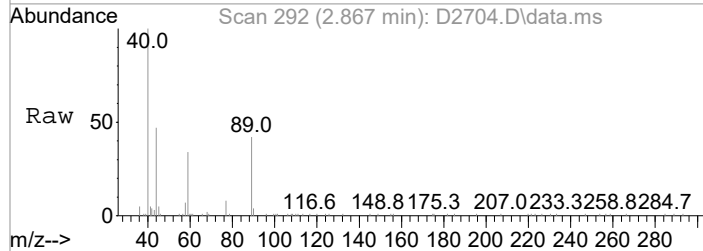






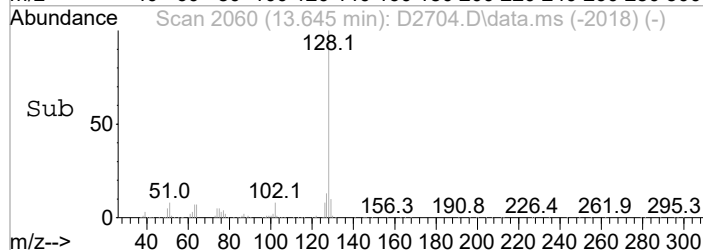
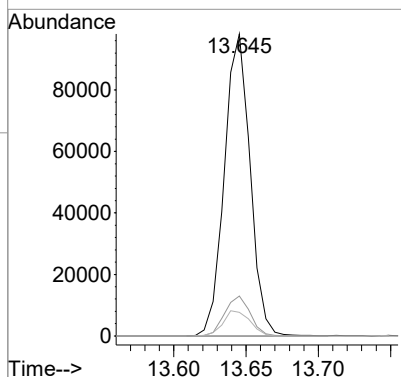
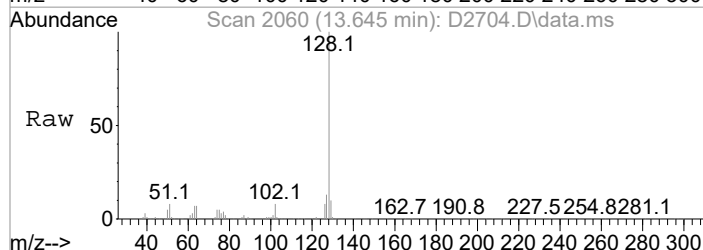
#23  
 TBA  
 Concen: 2.24 ug/L  
 RT: 2.867 min Scan# 292  
 Delta R.T. 0.013 min  
 Lab File: D2704.D  
 Acq: 20 Apr 2018 2:12 pm

Tgt Ion	Resp	Lower	Upper
59	100		
41	15.1	2.1	42.1



#116  
 Naphthalen  
 Concen: 12.14 ug/L  
 RT: 13.645 min Scan# 2060  
 Delta R.T. 0.000 min  
 Lab File: D2704.D  
 Acq: 20 Apr 2018 2:12 pm

Tgt Ion	Resp	Lower	Upper
128	100		
127	13.2	0.0	33.6
102	7.8	0.0	28.3



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2704.D  
 Acq On : 20 Apr 2018 2:12 pm  
 Operator : D.LIPANI  
 Sample : R1803412-002|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 300 Area counts  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2704.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.227	19	23	30	rBV	13124	20436	1.58%	0.281%
2	1.544	65	75	80	rBV7	20288	50497	3.91%	0.695%
3	5.239	670	681	692	rVB	137411	380640	29.48%	5.242%
4	5.385	695	705	717	rVB	266941	711648	55.11%	9.800%
5	5.781	760	770	780	rBV	184289	452555	35.05%	6.232%
6	6.482	875	885	895	rBV	438598	916733	70.99%	12.625%
7	8.305	1177	1184	1193	rBV	806079	1291347	100.00%	17.783%
8	9.799	1423	1429	1440	rBV	771887	1088213	84.27%	14.986%
9	10.878	1600	1606	1612	rBV	715129	898424	69.57%	12.372%
10	11.219	1658	1662	1666	rVB3	11816	14553	1.13%	0.200%
11	11.853	1760	1766	1773	rBV	848885	1081483	83.75%	14.893%
12	13.645	2054	2060	2068	rBV	207254	262736	20.35%	3.618%
13	14.517	2198	2203	2209	rVB	30727	39820	3.08%	0.548%
14	14.657	2222	2226	2232	rVB	43166	52426	4.06%	0.722%

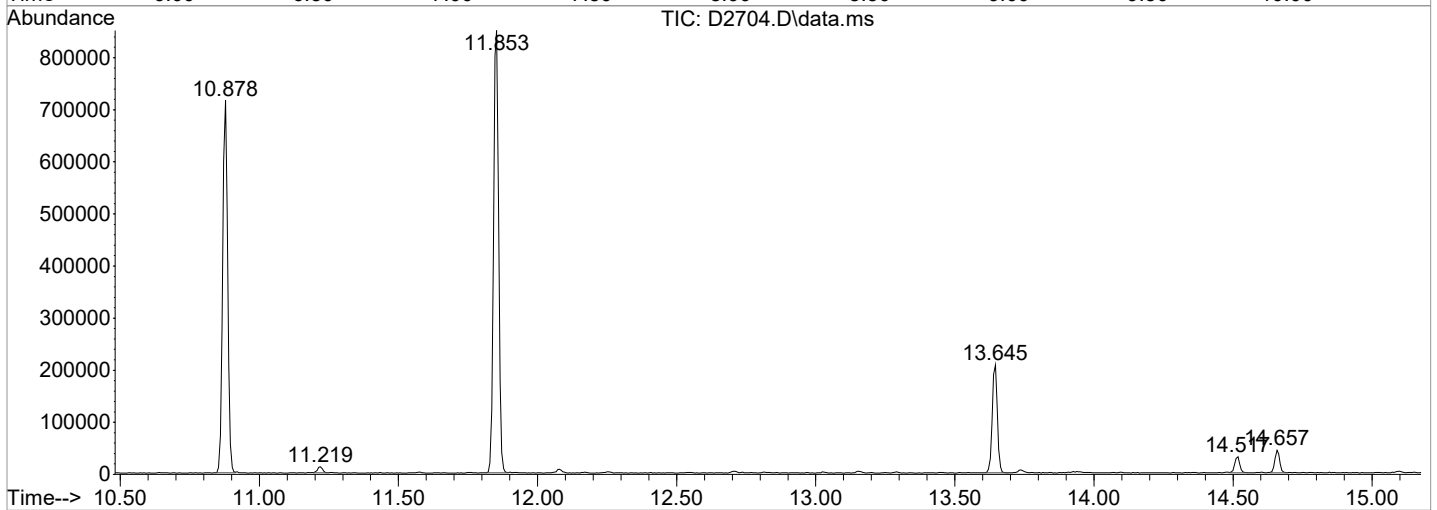
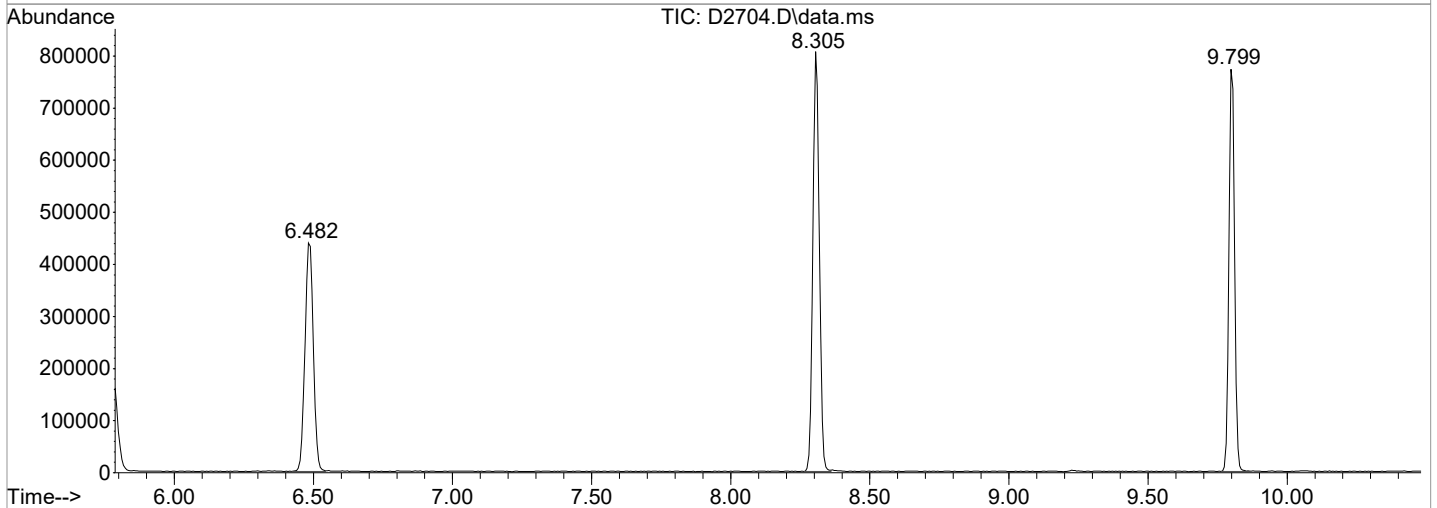
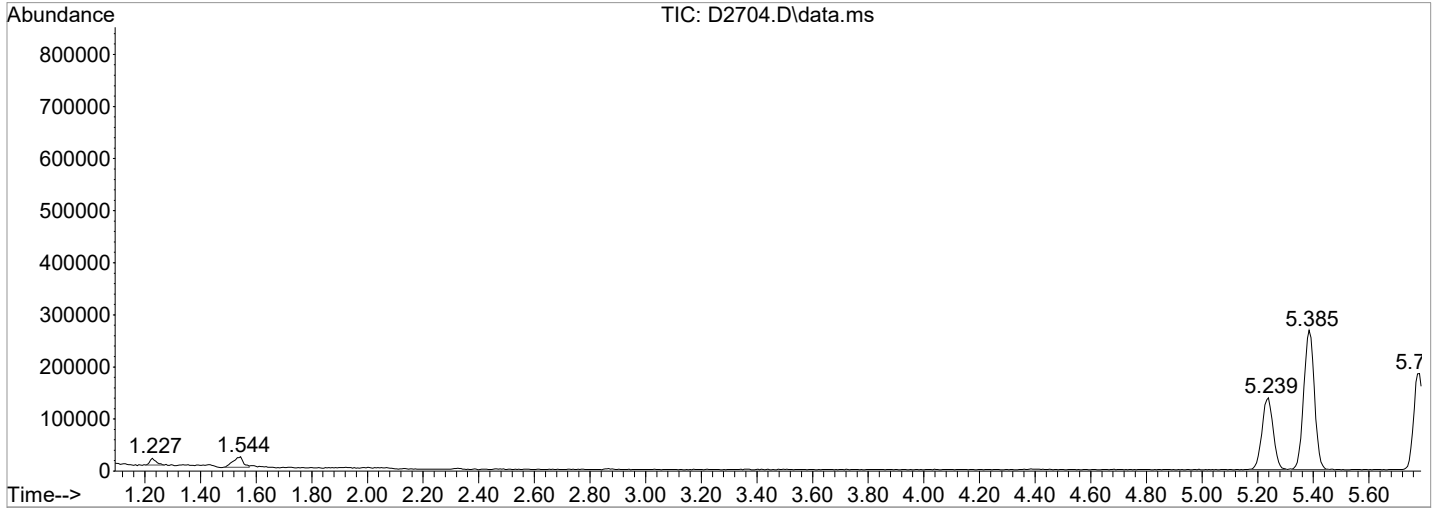
Sum of corrected areas: 7261511

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2704.D  
Acq On : 20 Apr 2018 2:12 pm  
Operator : D.LIPANI  
Sample : R1803412-002|1.0  
Misc : DAY 12666 T4  
ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2704.D  
 Acq On : 20 Apr 2018 2:12 pm  
 Operator : D.LIPANI  
 Sample : R1803412-002|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

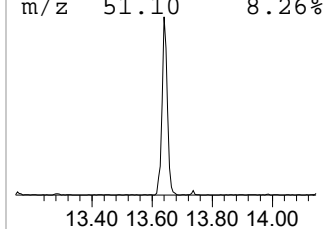
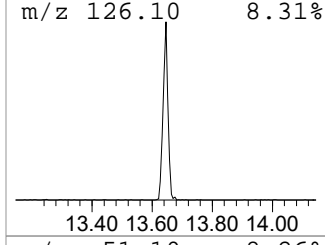
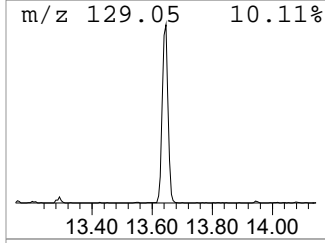
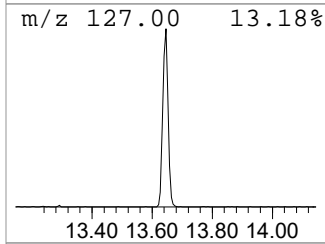
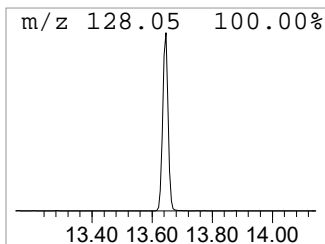
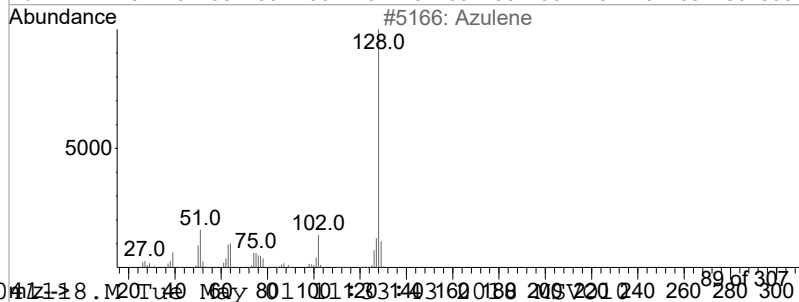
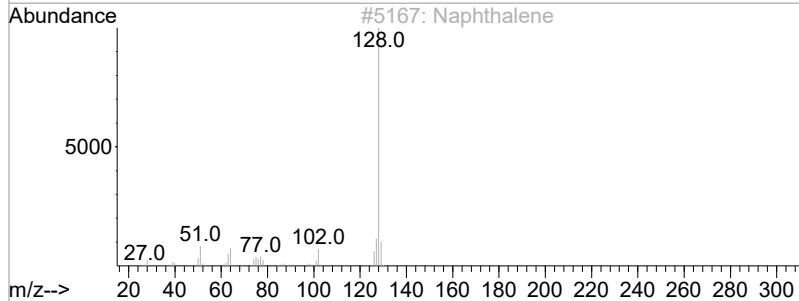
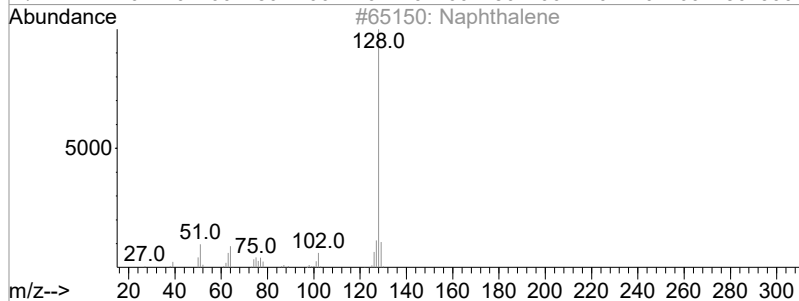
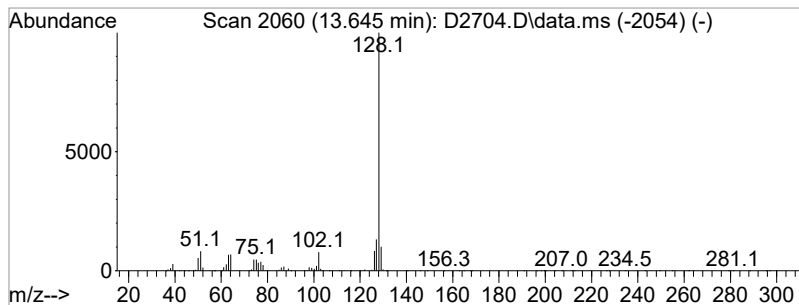
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 1 Naphthalene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.645	12.15 ug/L	262736	1,4-Dichlorobenzene-d4	11.853

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene	128	C10H8	000091-20-3	95	
2	Naphthalene	128	C10H8	000091-20-3	94	
3	Azulene	128	C10H8	000275-51-4	91	
4	Naphthalene	128	C10H8	000091-20-3	91	
5	Azulene	128	C10H8	000275-51-4	91	



Tentatively Identified Compound (LSC) summary

1st DL 05/01/18  
 2nd RL 05/01/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2704.D  
 Acq On : 20 Apr 2018 2:12 pm  
 Operator : D.LIPANI  
 Sample : R1803412-002|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 15 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

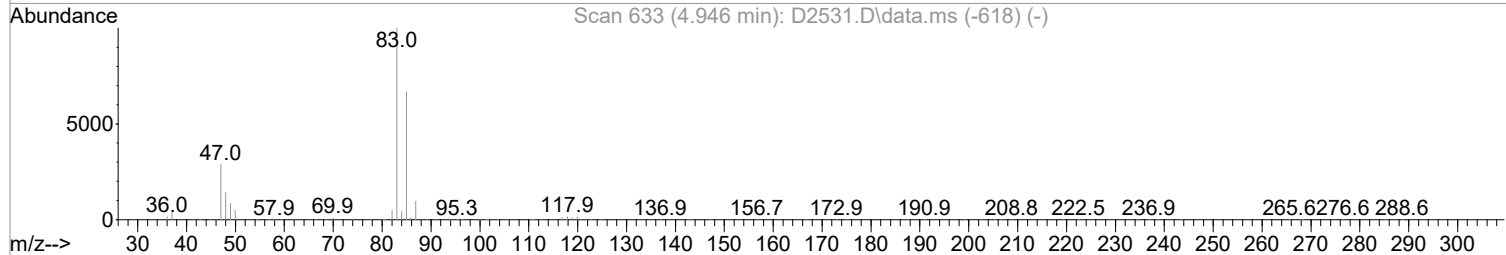
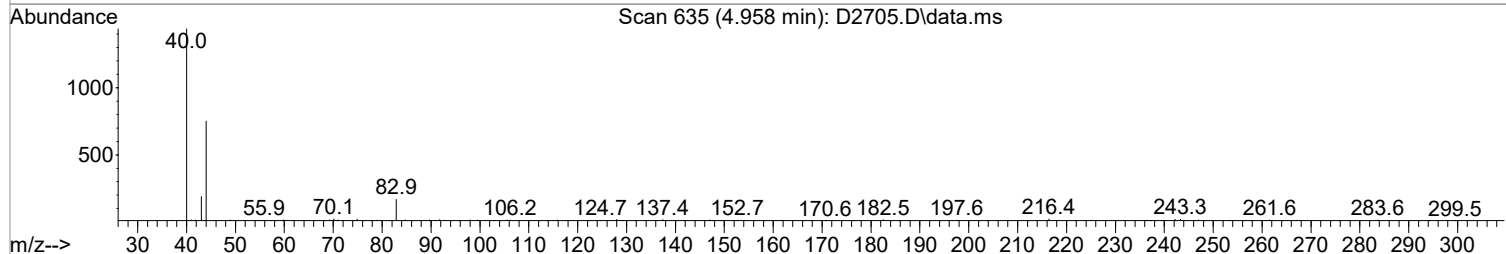
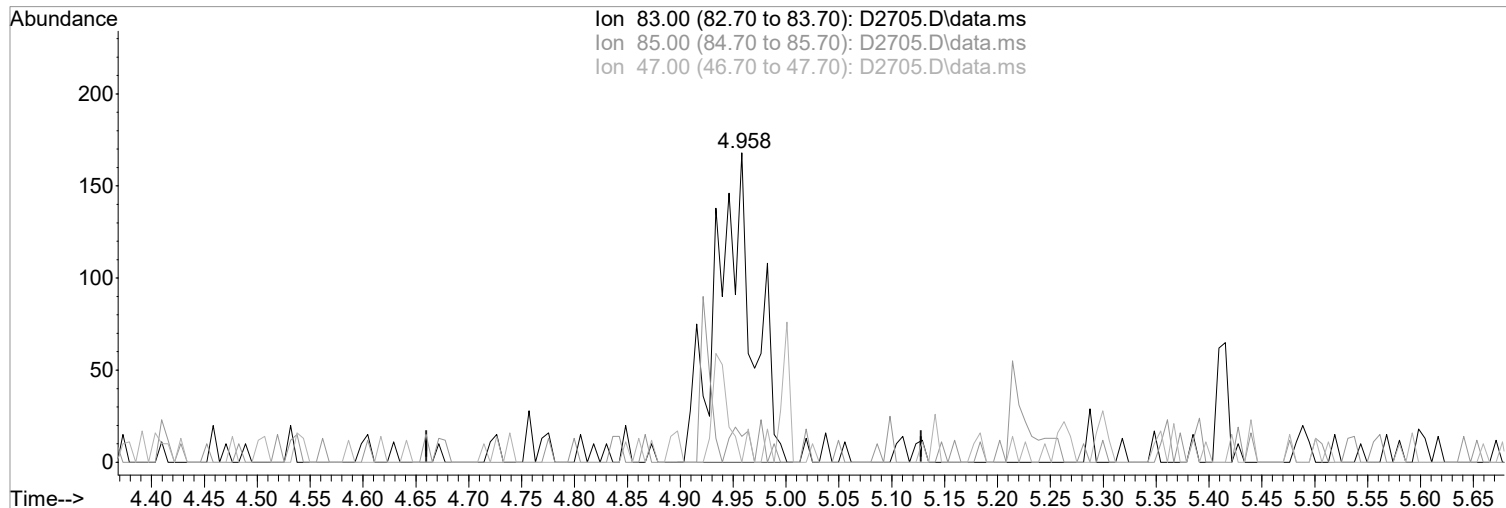
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Naphthalene	13.645	12.2	ug/L	262736	4	11.853	1081480	50.0

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2705.D  
Acq On : 20 Apr 2018 2:34 pm  
Operator : D.LIPANI  
Sample : R1803412-003|1.0  
Misc : DAY 12666 T4  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 14:48:23 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(39) Chloroform (P)

4.958min (+0.012) 0.09 ug/L m

response 402

Ion	Exp%	Act%
83.00	100	100
85.00	66.80	8.33#
47.00	28.80	0.00#
0.00	0.00	0.00

Manual Integration:

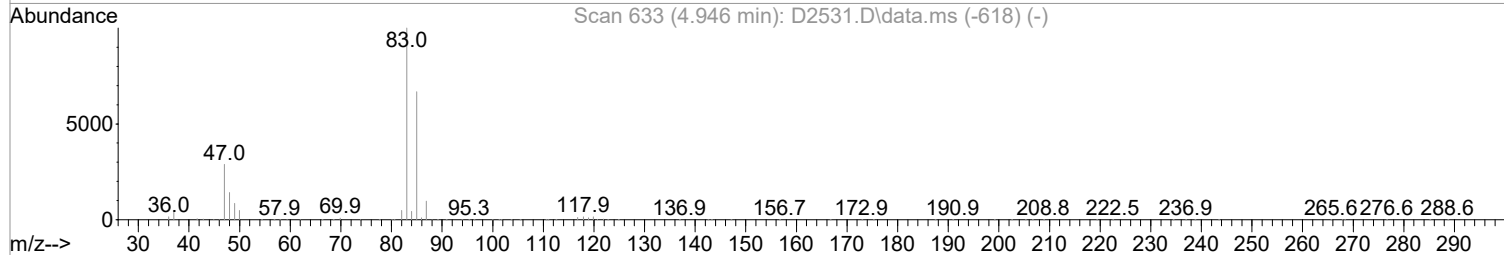
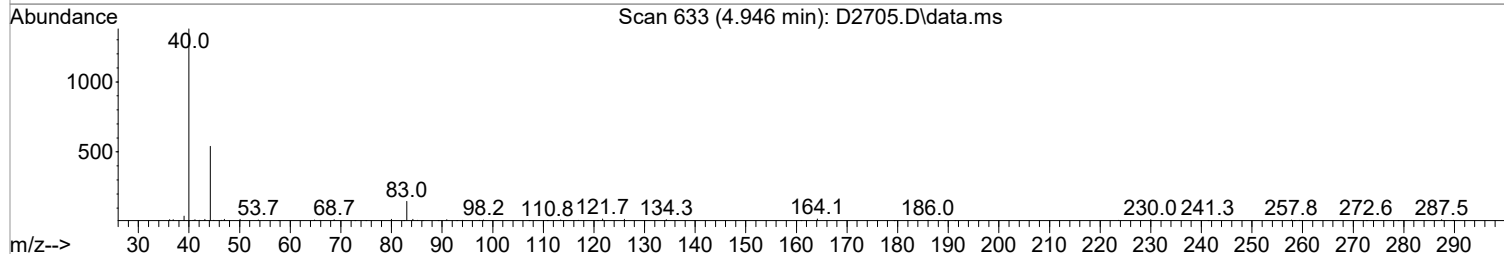
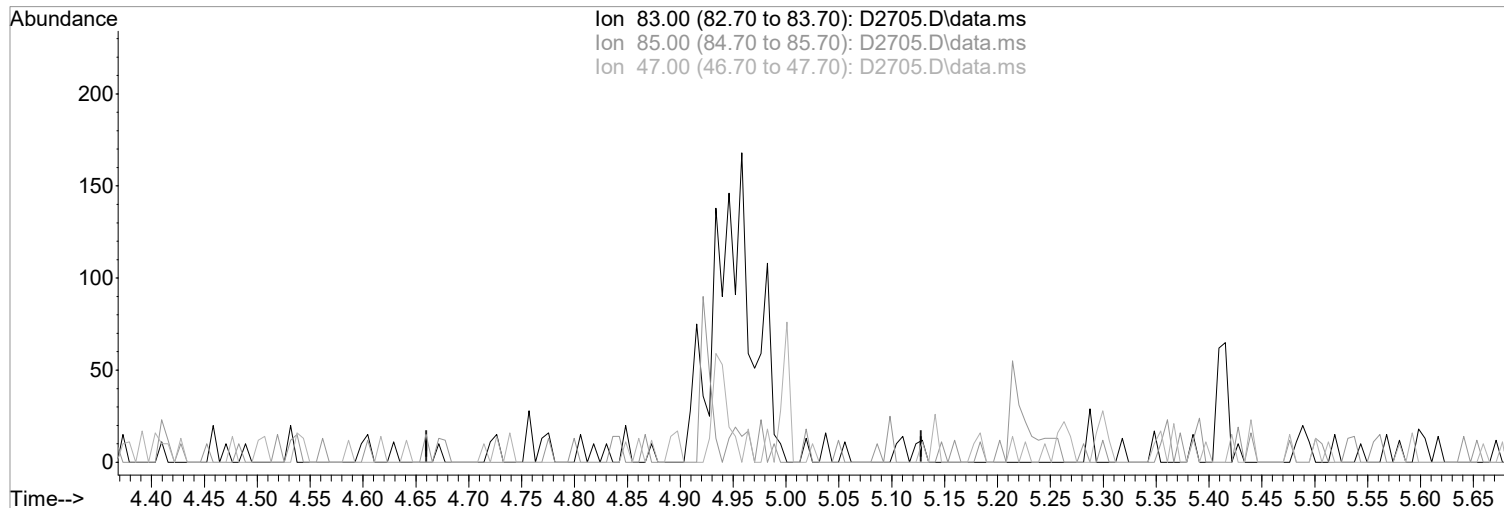
After

Peak not found.

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2705.D  
Acq On : 20 Apr 2018 2:34 pm  
Operator : D.LIPANI  
Sample : R1803412-003|1.0 Inst : MSVOA10  
Misc : DAY 12666 T4  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 20 14:48:23 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(39) Chloroform (P)  
4.946min (-4.946) 0.00 ug/L  
response 0

Manual Integration:  
Before

Ion	Exp%	Act%
83.00	100	0.00
85.00	66.80	0.00#
47.00	28.80	0.00#
0.00	0.00	0.00

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2705.D  
 Acq On : 20 Apr 2018 2:34 pm  
 Operator : D.LIPANI  
 Sample : R1803412-003|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 23 13:40:38 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	235443	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	360959	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	313261	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	156330	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.239	113	110509	48.28	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	96.56%	
46) surr1,1,2-dichloroetha...	5.781	65	161037	53.08	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.16%	
64) SURR3,Toluene-d8	8.305	98	456670	49.76	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.52%	
69) SURR2,BFB	10.878	95	175853	48.81	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.62%	
Target Compounds						
5) Bromomethane	1.550	94	321	Below Cal	Qvalue #	6
15) Acetone	2.318	43	1610	1.02	ug/L	86
16) 2-Propanol	2.446	45	699	2.11	ug/L	94
116) Naphthalen	13.645	128	2941	0.30	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

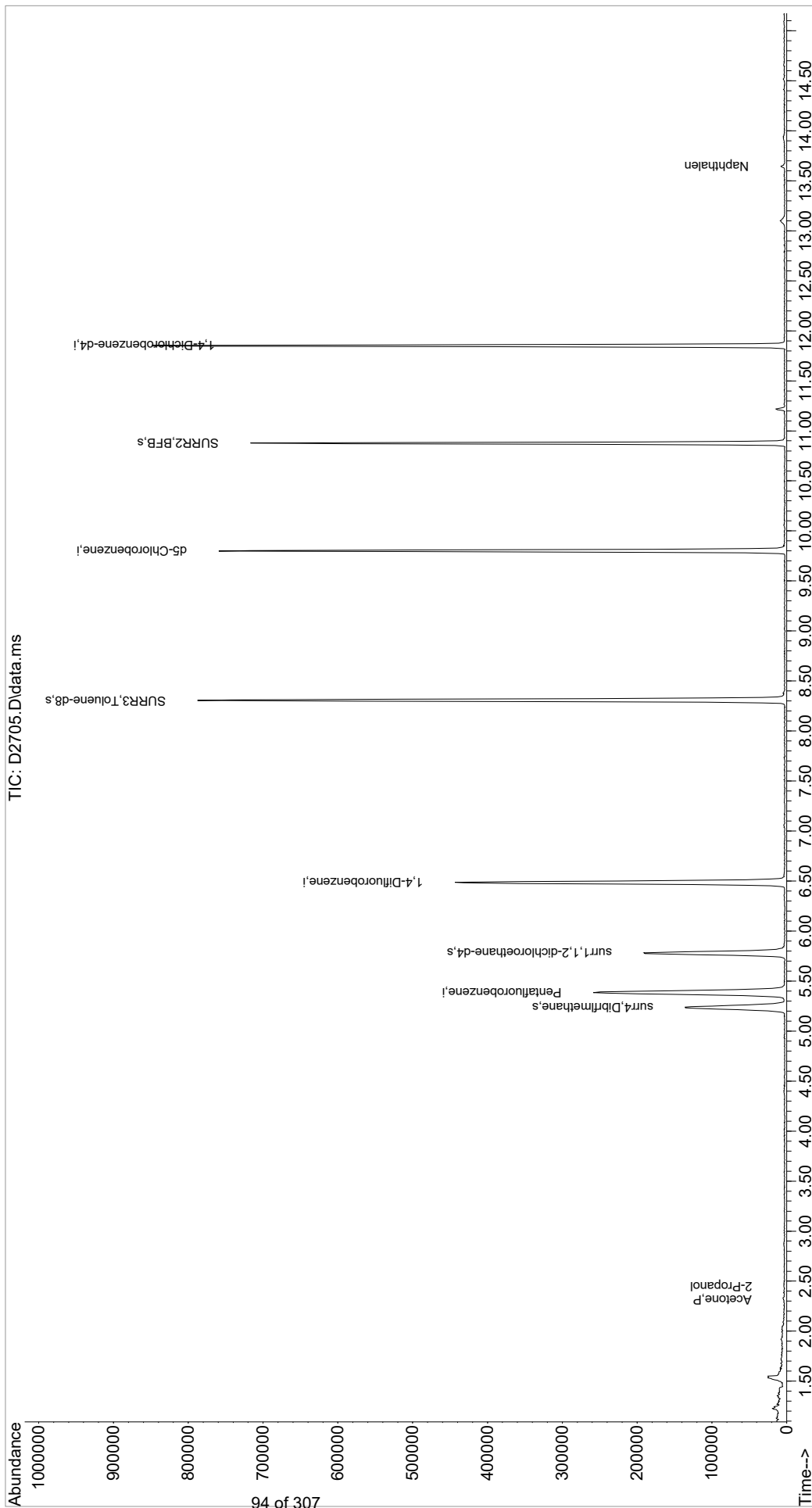


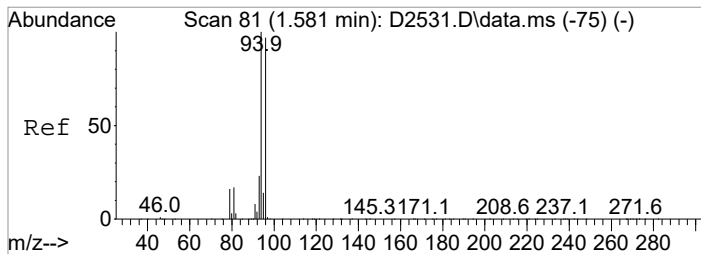
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\042018\  
Data File : D2705.D  
Acq On : 20 Apr 2018 2:34 pm  
Operator : D.LIPANI  
Sample : R1803412-003|1.0  
Misc : DAY 12666 T4  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA10

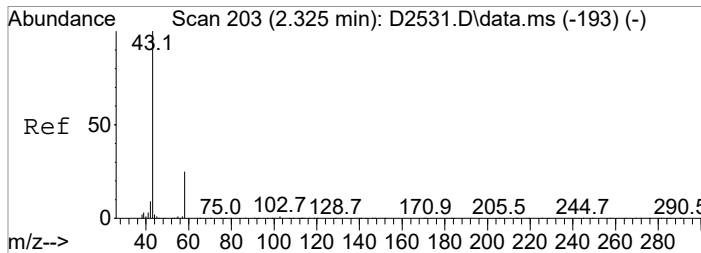
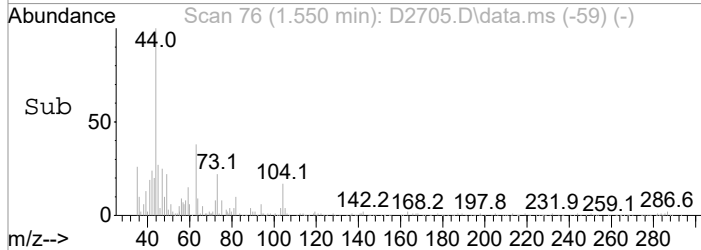
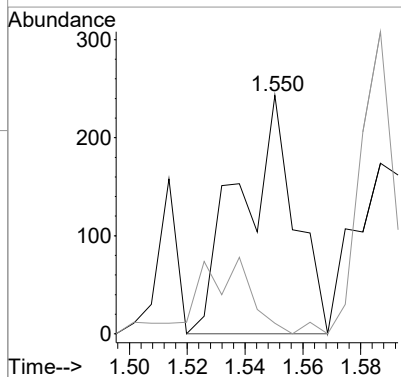
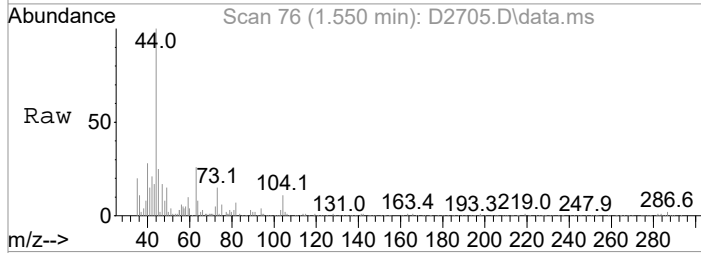
Quant Time: Apr 23 13:40:38 2018  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





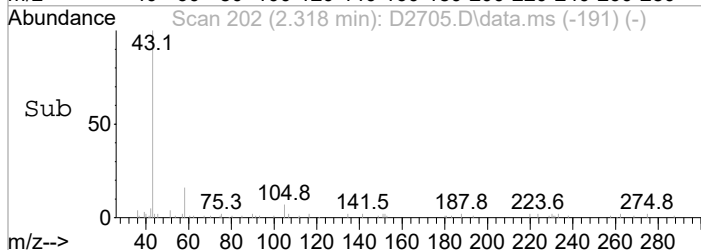
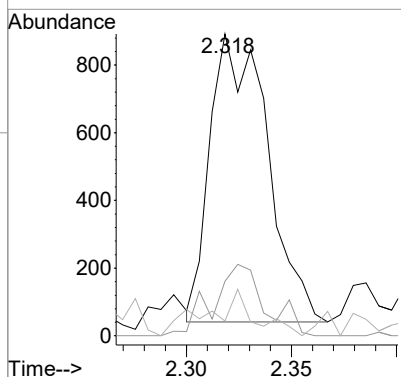
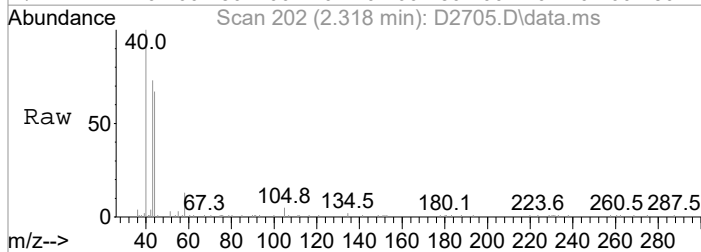
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.550 min Scan# 76  
 Delta R.T. -0.036 min  
 Lab File: D2705.D  
 Acq: 20 Apr 2018 2:34 pm

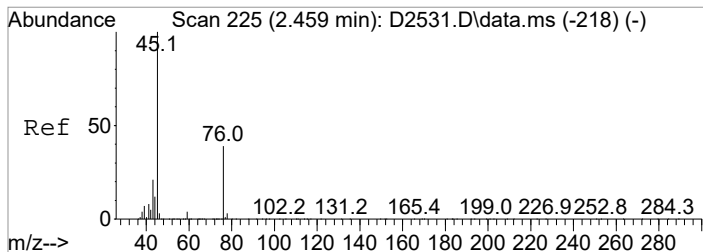
Tgt Ion	Resp	Lower	Upper
94	321		
94	100		
96	4.5	77.7	117.7#



#15  
 Acetone  
 Concen: 1.02 ug/L  
 RT: 2.318 min Scan# 202  
 Delta R.T. -0.006 min  
 Lab File: D2705.D  
 Acq: 20 Apr 2018 2:34 pm

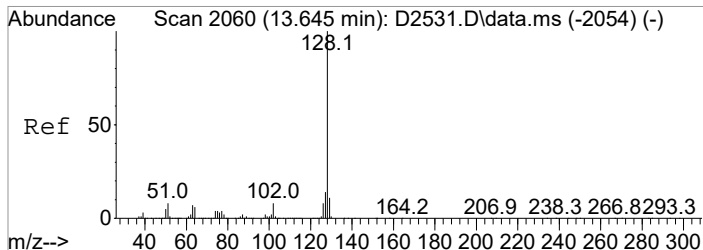
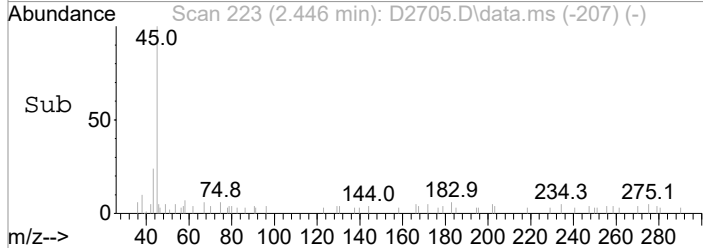
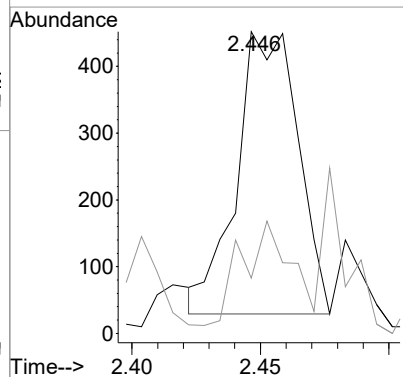
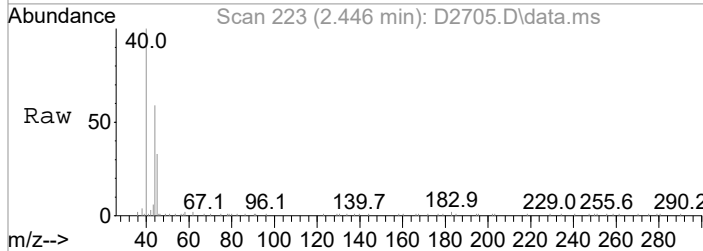
Tgt Ion	Resp	Lower	Upper
43	1610		
43	100		
58	18.0	5.2	45.2
42	4.9	0.0	29.2





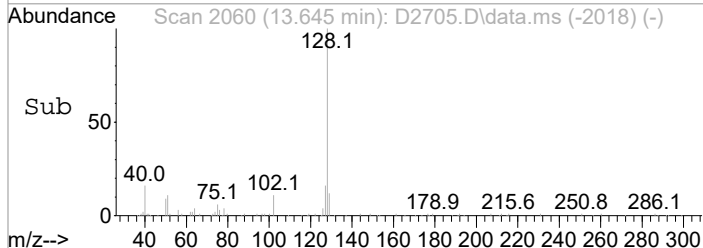
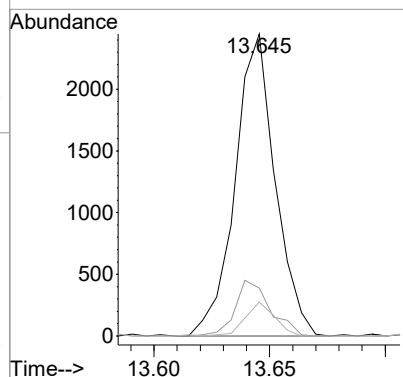
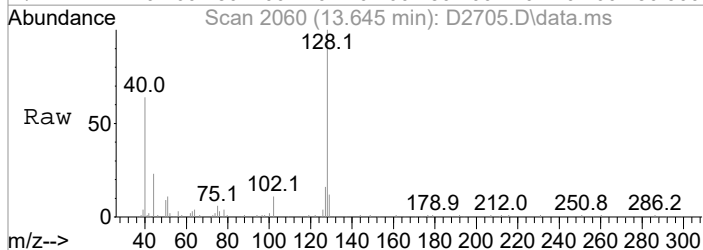
#16  
 2-Propanol  
 Concen: 2.11 ug/L  
 RT: 2.446 min Scan# 223  
 Delta R.T. -0.012 min  
 Lab File: D2705.D  
 Acq: 20 Apr 2018 2:34 pm

Tgt Ion	Resp	Lower	Upper
45	100		
43	18.4	1.3	41.3



#116  
 Naphthalen  
 Concen: 0.30 ug/L  
 RT: 13.645 min Scan# 2060  
 Delta R.T. 0.000 min  
 Lab File: D2705.D  
 Acq: 20 Apr 2018 2:34 pm

Tgt Ion	Resp	Lower	Upper
128	100		
127	15.9	0.0	33.6
102	11.2	0.0	28.3



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2705.D  
 Acq On : 20 Apr 2018 2:34 pm  
 Operator : D.LIPANI  
 Sample : R1803412-003|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2705.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.532	65	73	74	rBV6	19264	33861	2.67%	0.501%
2	5.239	670	681	692	rBV2	133040	375489	29.62%	5.558%
3	5.385	694	705	719	rVB	255445	688542	54.32%	10.192%
4	5.781	759	770	782	rBV	188635	454193	35.83%	6.723%
5	6.488	876	886	895	rBV	440700	888856	70.13%	13.158%
6	8.305	1175	1184	1195	rBV	785059	1267492	100.00%	18.763%
7	9.799	1423	1429	1437	rBV	756499	1061557	83.75%	15.714%
8	10.878	1600	1606	1612	rBV	714295	887565	70.03%	13.139%
9	11.219	1658	1662	1667	rVB3	11792	15083	1.19%	0.223%
10	11.853	1760	1766	1775	rBV	846434	1065899	84.10%	15.778%
11	13.103	1957	1971	1978	rBV6	5996	16882	1.33%	0.250%

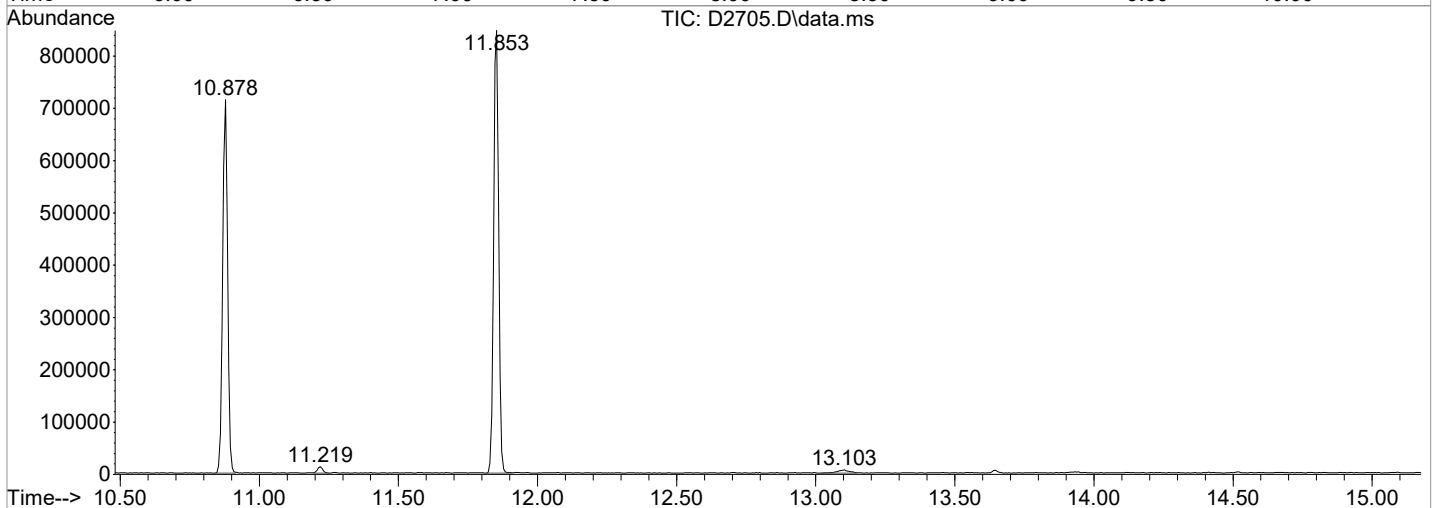
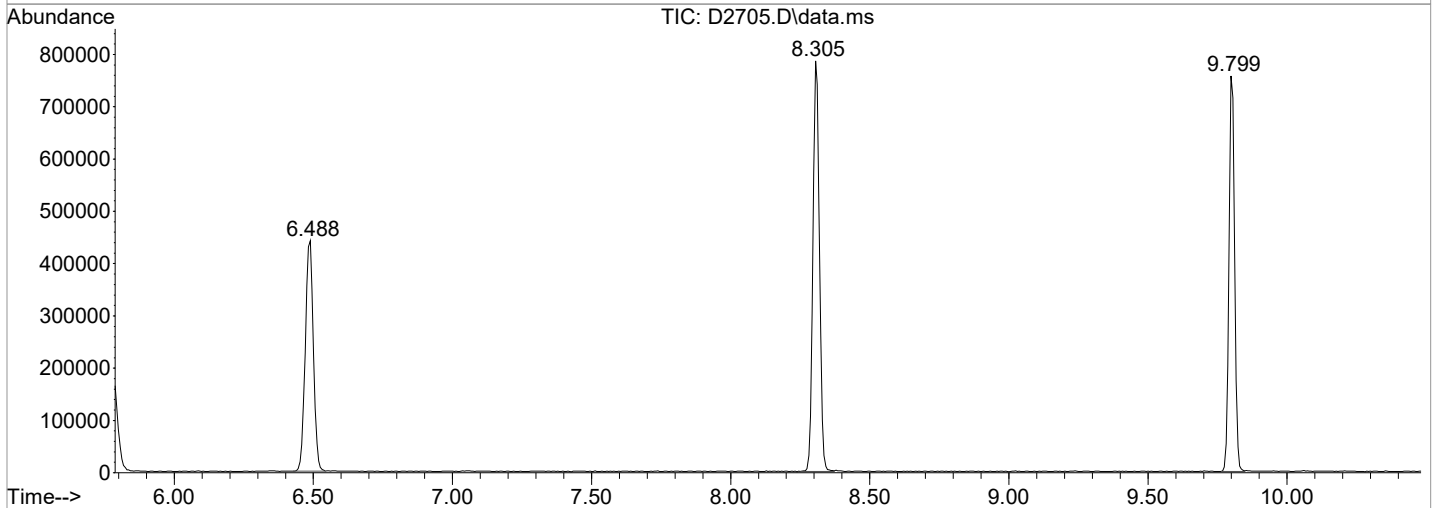
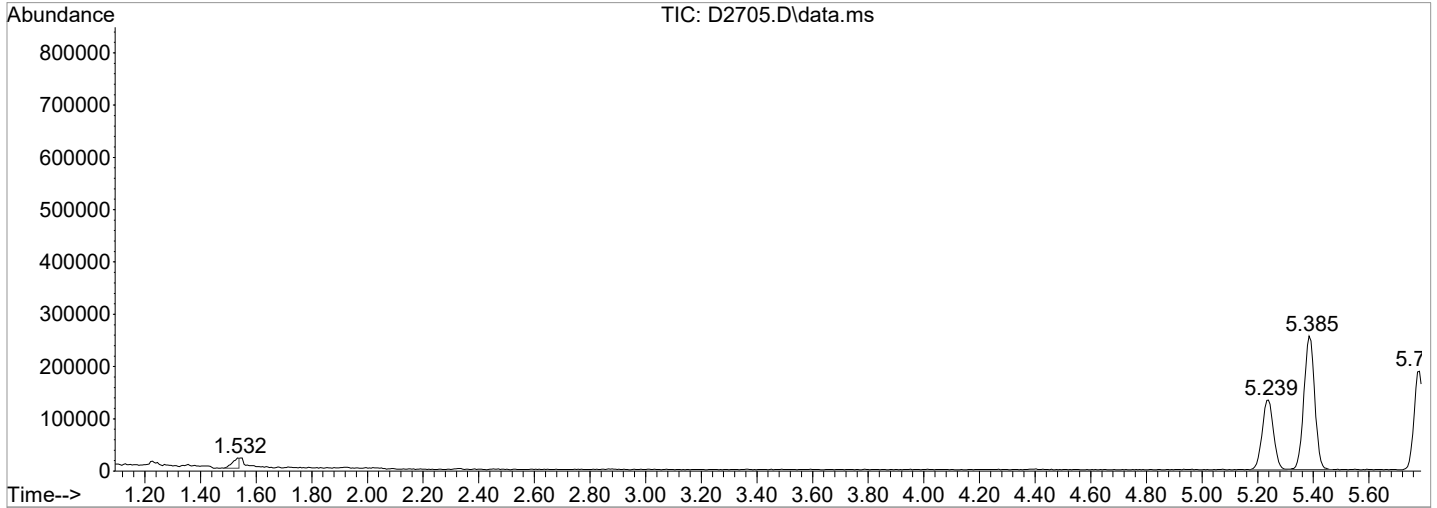
Sum of corrected areas: 6755419

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2705.D  
Acq On : 20 Apr 2018 2:34 pm  
Operator : D.LIPANI  
Sample : R1803412-003|1.0  
Misc : DAY 12666 T4  
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

1st DL 05/01/18  
2nd RL 05/01/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2705.D  
Acq On : 20 Apr 2018 2:34 pmm  
Operator : D.LIPANII  
Sample : R1803412-003|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 16 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

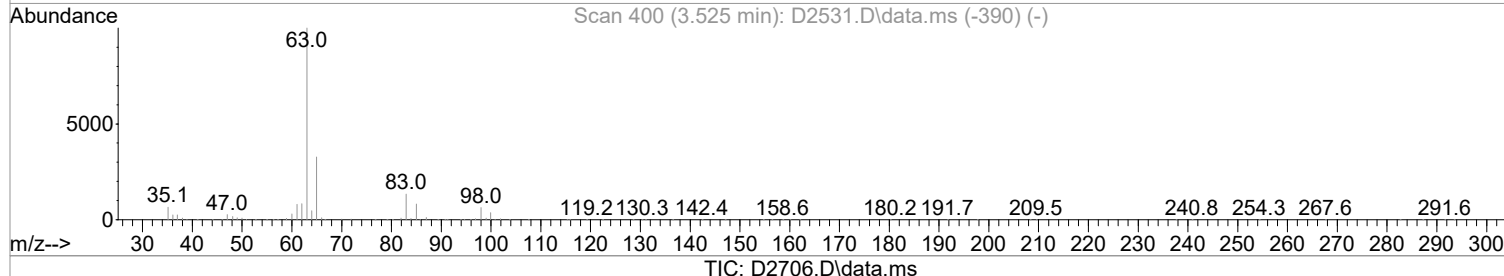
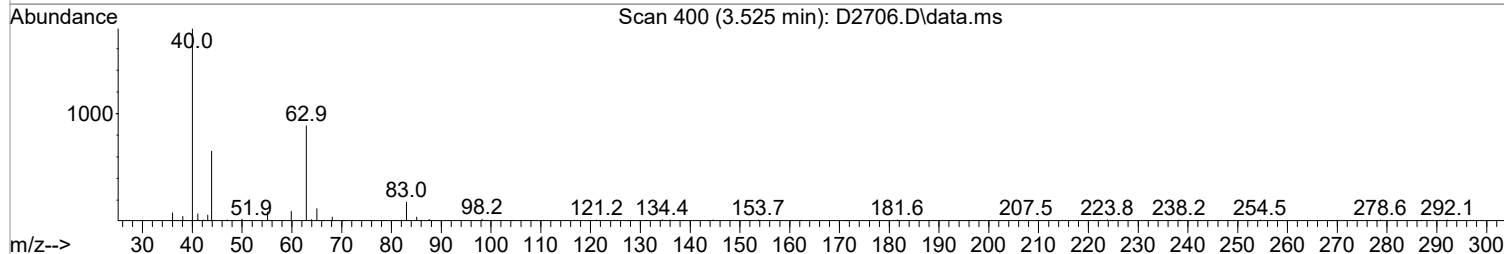
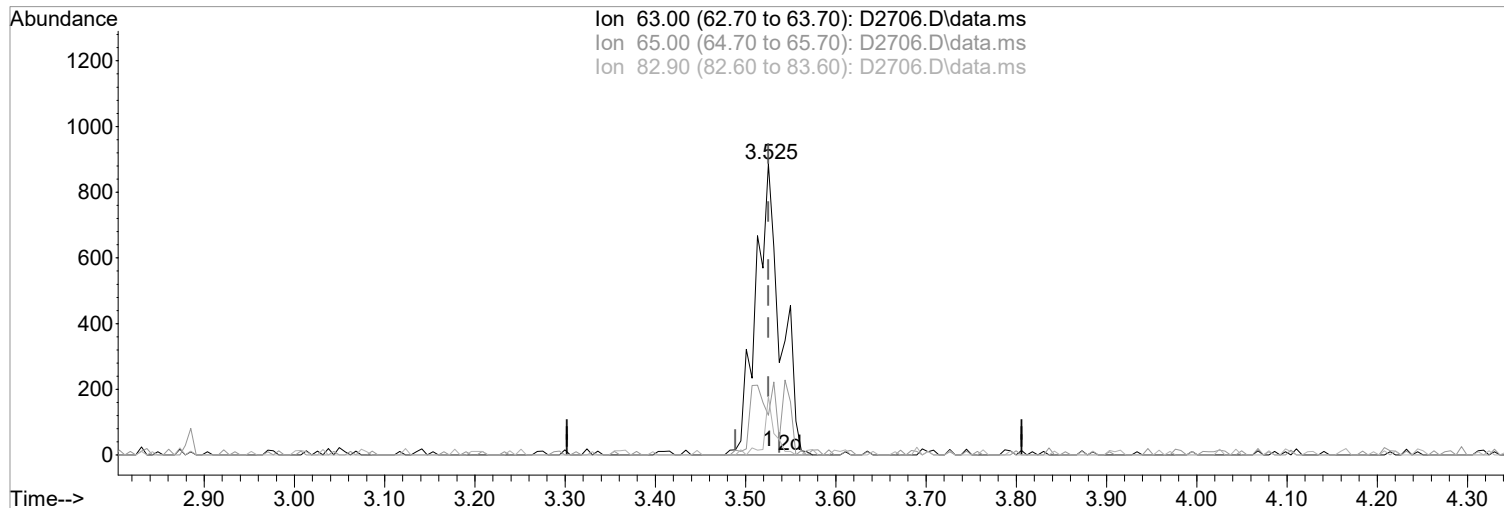
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2706.D  
Acq On : 20 Apr 2018 2:55 pm  
Operator : D.LIPANI  
Sample : R1803412-004|1.0 Inst : MSVOA10  
Misc : DAY 12666 T4  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 20 15:10:09 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(27) 1,1-Dicethane (P)

3.525min (-0.000) 0.34 ug/L m

response 1682

Ion	Exp%	Act%
63.00	100	100
65.00	32.80	13.64
82.90	13.40	20.18
0.00	0.00	0.00

Manual Integration:

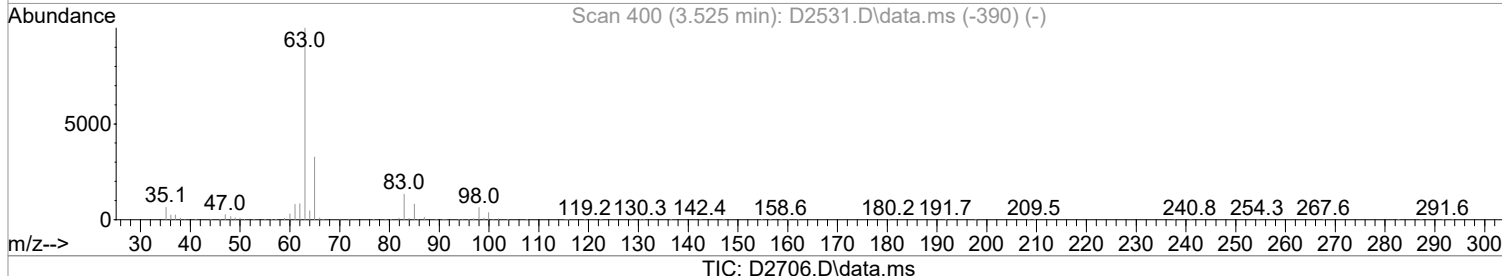
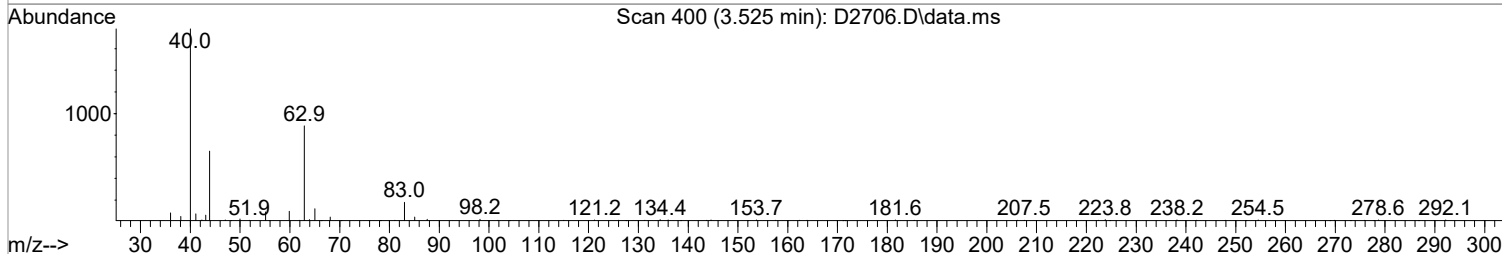
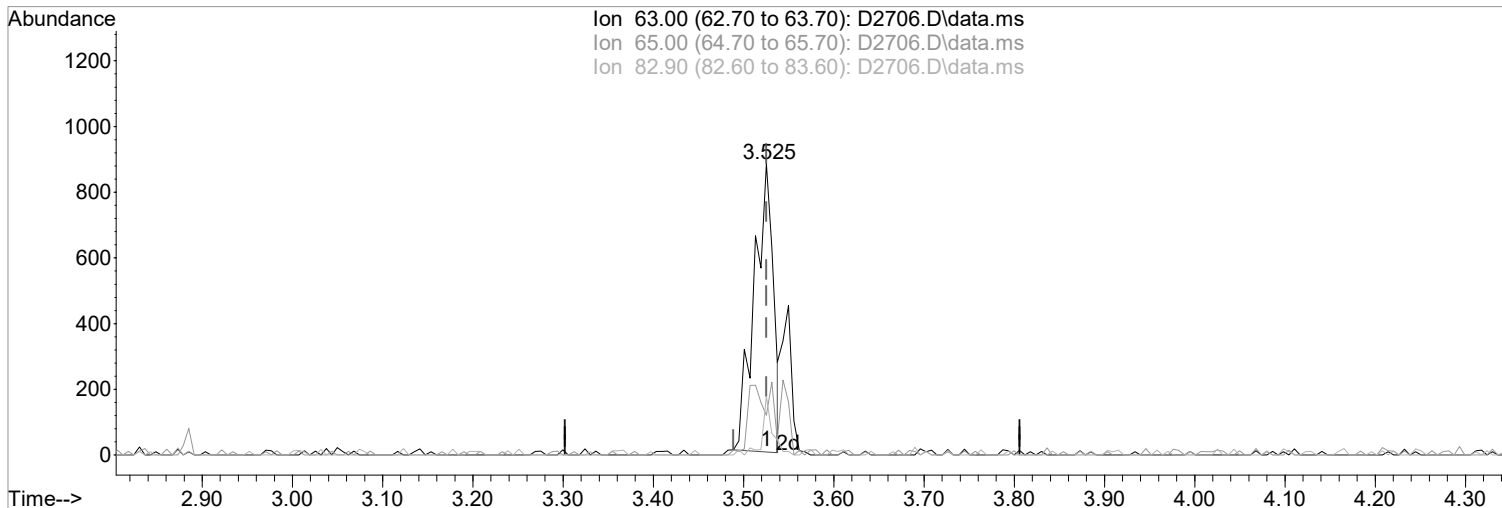
After

Poor integration.

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2706.D  
 Acq On : 20 Apr 2018 2:55 pm  
 Operator : D.LIPANI  
 Sample : R1803412-004|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 20 15:10:09 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration



(27) 1,1-Dicethane (P) Manual Integration:  
 3.525min (-0.000) 0.27 ug/L Before  
 response 1297  
 04/23/18

Ion	Exp%	Act%
63.00	100	100
65.00	32.80	13.64
82.90	13.40	20.18
0.00	0.00	0.00



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2706.D  
 Acq On : 20 Apr 2018 2:55 pm  
 Operator : D.LIPANI  
 Sample : R1803412-004|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 23 13:42:54 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	236827	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	365003	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.798	117	316278	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	158307	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	110011	47.53	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	95.06%	
46) surr1,1,2-dichloroetha...	5.775	65	157487	51.34	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	102.68%	
64) SURR3,Toluene-d8	8.305	98	448432	48.32	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.64%	
69) SURR2,BFB	10.878	95	168536	46.26	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	92.52%	
Target Compounds						
5) Bromomethane	1.587	94	353	Below Cal	Qvalue #	55
15) Acetone	2.324	43	2692	1.70 ug/L		97
16) 2-Propanol	2.465	45	1119	3.35 ug/L		90
27) 1,1-Diclcethane	3.525	63	1682m	0.34 ug/L		

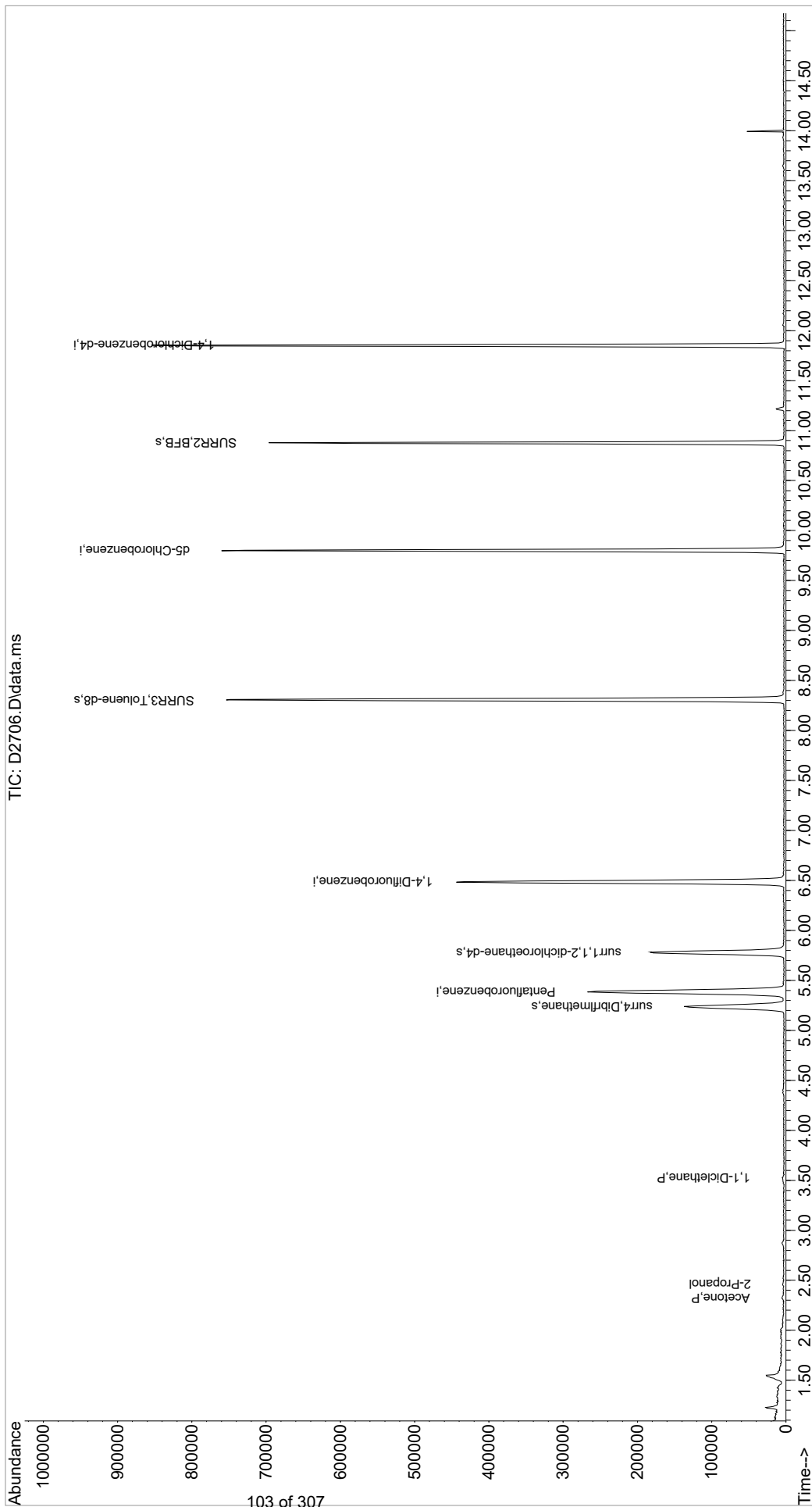
(#) = qualifier out of range (m) = manual integration (+) = signals summed

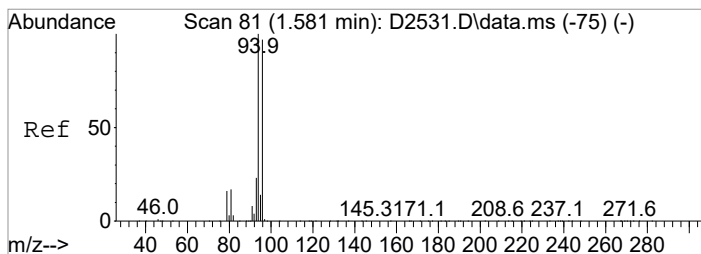
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2706.D  
Acq On : 20 Apr 2018 2:55 pm  
Operator : D.LIPANI  
Sample : R1803412-004|1.0  
Misc : DAY 12666 T4  
ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA10

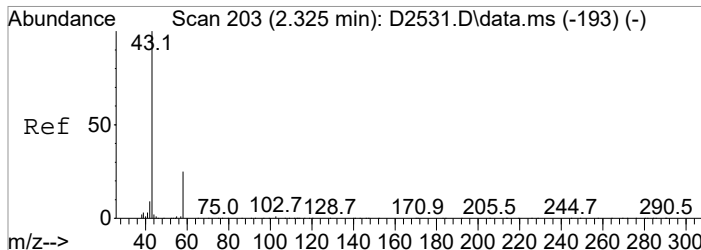
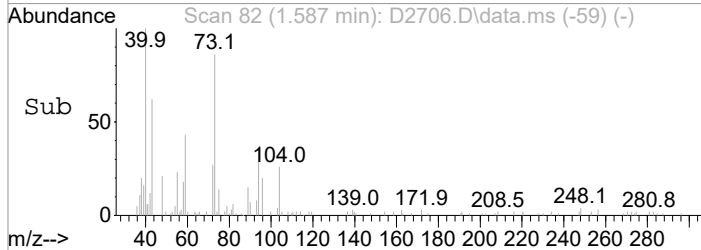
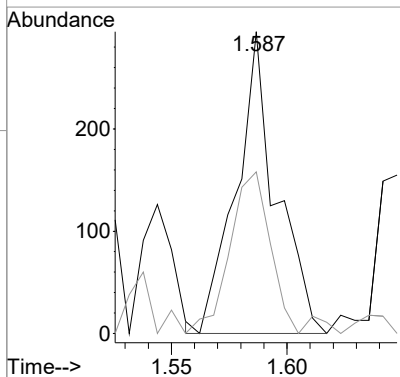
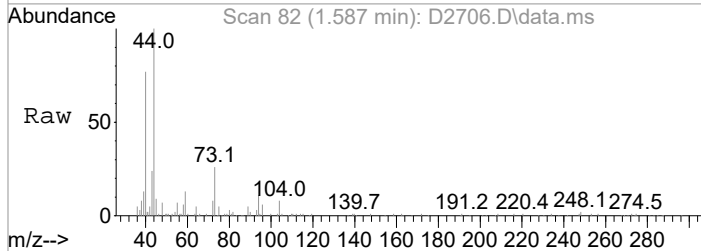
Quant Time: Apr 23 13:42:54 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





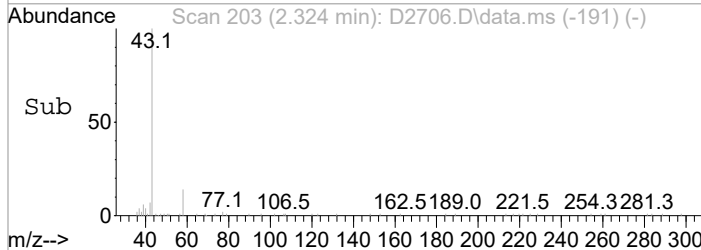
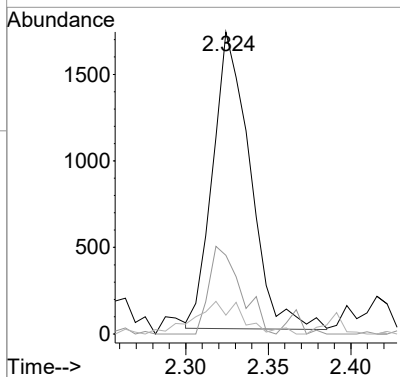
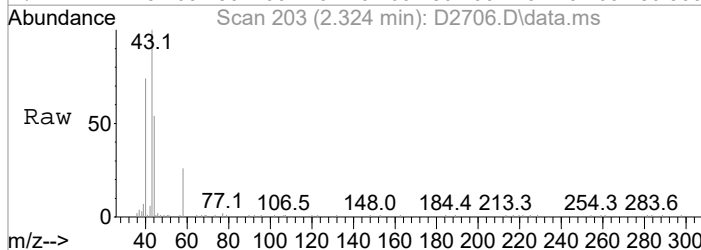
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.587 min Scan# 82  
 Delta R.T. 0.001 min  
 Lab File: D2706.D  
 Acq: 20 Apr 2018 2:55 pm

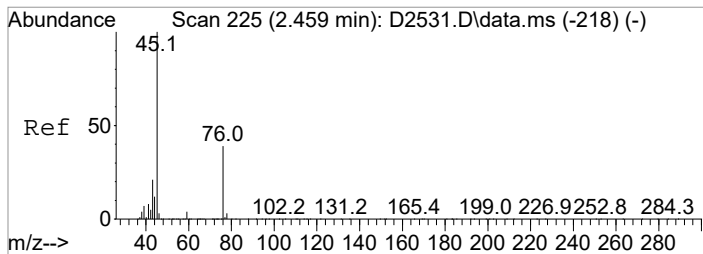
Tgt Ion	Resp	Lower	Upper
94	100		
96	53.6	77.7	117.7#



#15  
 Acetone  
 Concen: 1.70 ug/L  
 RT: 2.324 min Scan# 203  
 Delta R.T. -0.000 min  
 Lab File: D2706.D  
 Acq: 20 Apr 2018 2:55 pm

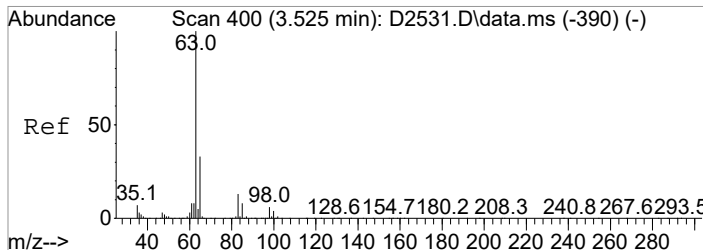
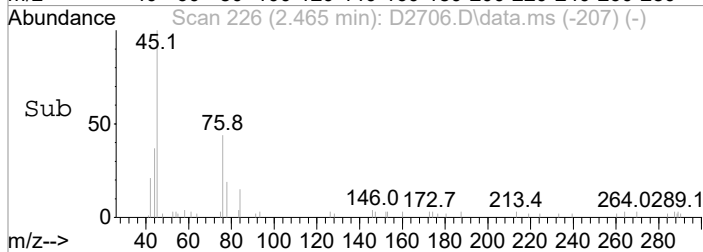
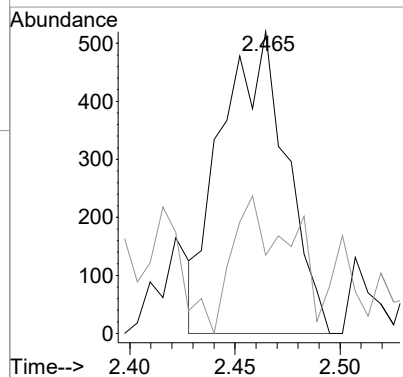
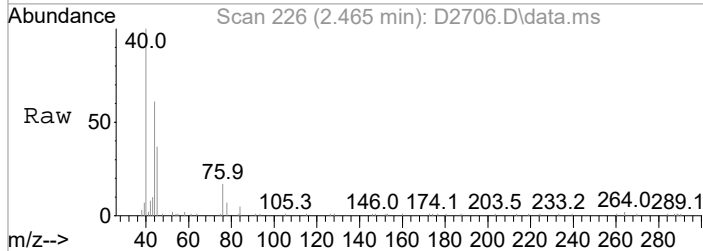
Tgt Ion	Resp	Lower	Upper
43	100		
58	26.0	5.2	45.2
42	6.2	0.0	29.2





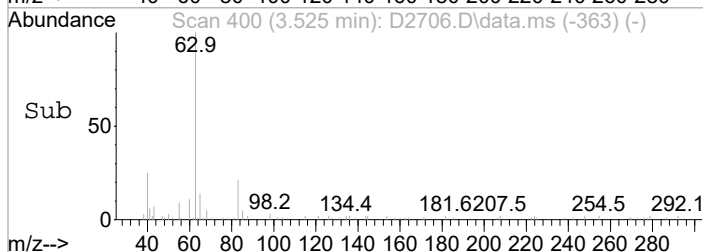
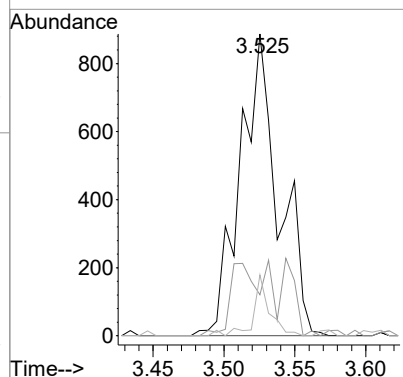
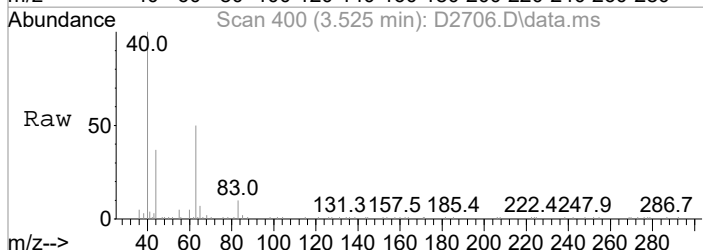
#16  
2-Propanol  
Concen: 3.35 ug/L  
RT: 2.465 min Scan# 226  
Delta R.T. 0.007 min  
Lab File: D2706.D  
Acq: 20 Apr 2018 2:55 pm

Tgt Ion	Resp	Lower	Upper
45	100		
43	26.0	1.3	41.3



#27  
1,1-Dicylethane  
Concen: 0.34 ug/L m  
RT: 3.525 min Scan# 400  
Delta R.T. -0.000 min  
Lab File: D2706.D  
Acq: 20 Apr 2018 2:55 pm

Tgt Ion	Resp	Lower	Upper
63	100		
65	13.6	12.8	52.8
83	20.2	0.0	33.4



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2706.D  
 Acq On : 20 Apr 2018 2:55 pm  
 Operator : D.LIPANI  
 Sample : R1803412-004|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2706.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.227	19	23	30	rVB	16103	21588	1.74%	0.318%
2	1.550	64	76	81	rBV5	20449	57737	4.66%	0.851%
3	5.238	669	681	692	rBV	134151	371274	29.98%	5.471%
4	5.385	692	705	718	rVB	264103	695568	56.16%	10.250%
5	5.781	760	770	783	rBV	180183	440122	35.54%	6.486%
6	6.482	876	885	898	rBV	440965	900095	72.68%	13.264%
7	8.305	1177	1184	1195	rBV	750661	1238517	100.00%	18.251%
8	9.798	1423	1429	1438	rBV	757469	1076242	86.90%	15.860%
9	10.878	1600	1606	1613	rBV	693547	869937	70.24%	12.820%
10	11.219	1657	1662	1666	rBV4	10284	14724	1.19%	0.217%
11	11.853	1760	1766	1777	rBV	852130	1072239	86.57%	15.801%
12	13.993	2116	2117	2120	rVB	49839	27939	2.26%	0.412%

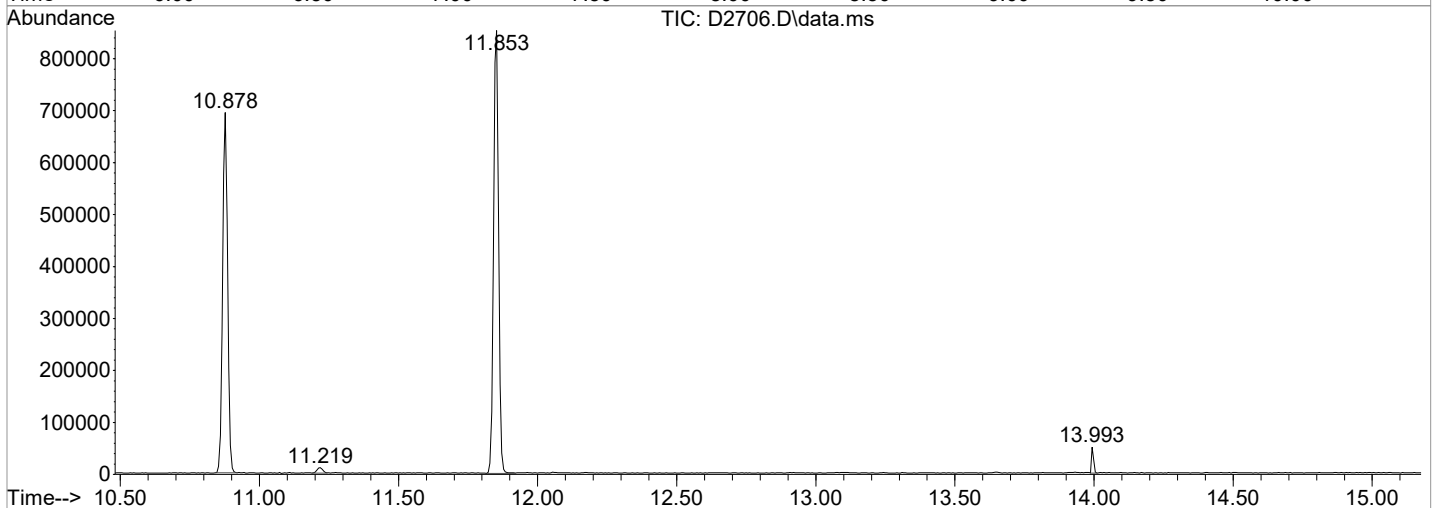
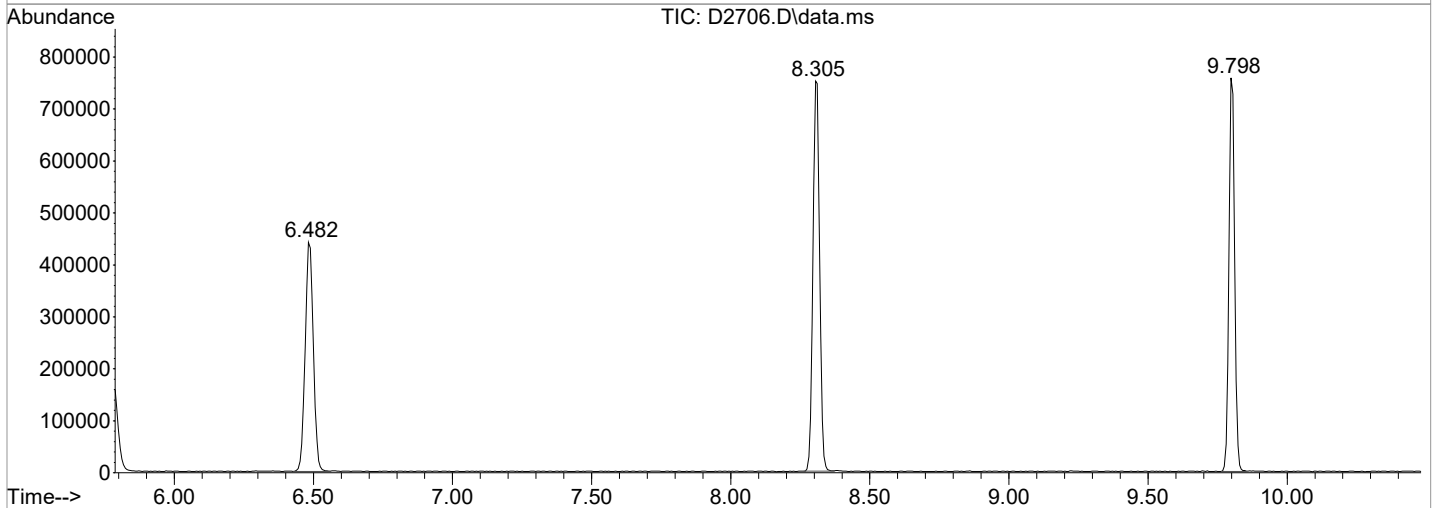
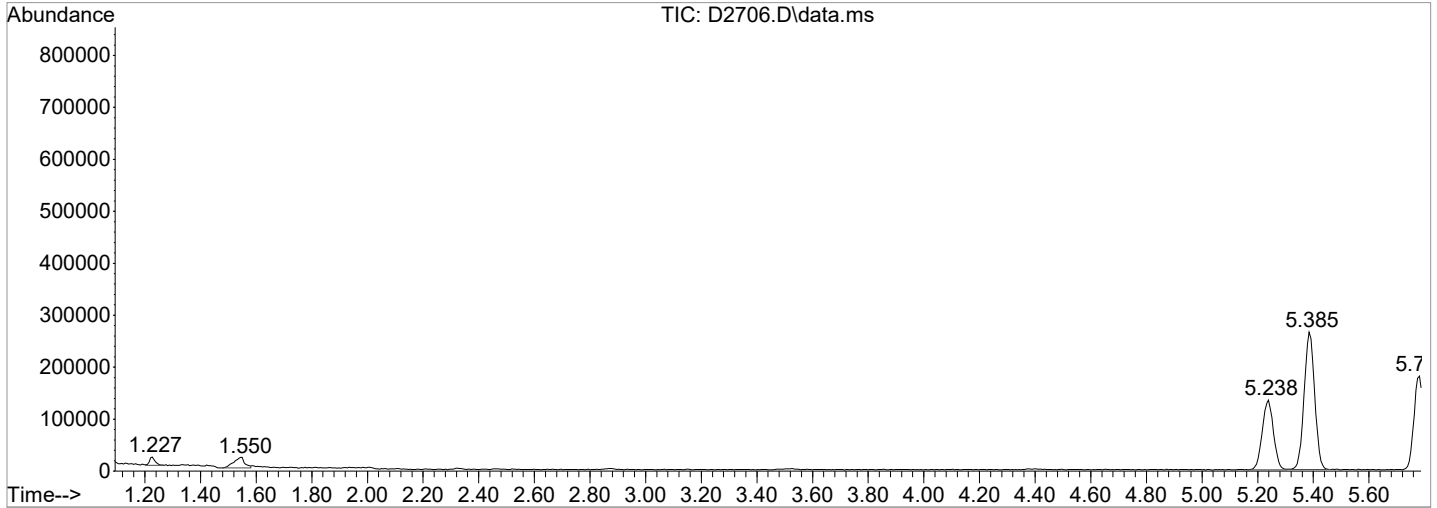
Sum of corrected areas: 6785982

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2706.D  
Acq On : 20 Apr 2018 2:55 pm  
Operator : D.LIPANI  
Sample : R1803412-004|1.0  
Misc : DAY 12666 T4  
ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2706.D  
Acq On : 20 Apr 2018 2:55 pmm  
Operator : D.LIPANII  
Sample : R1803412-004|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 17 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

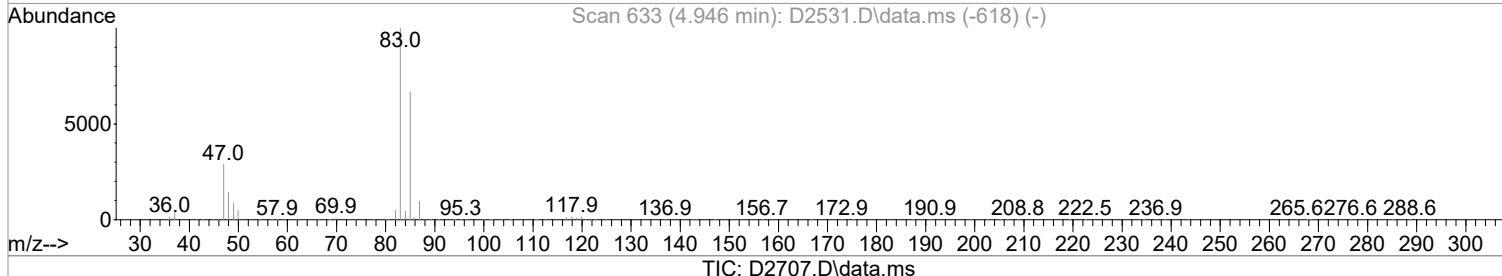
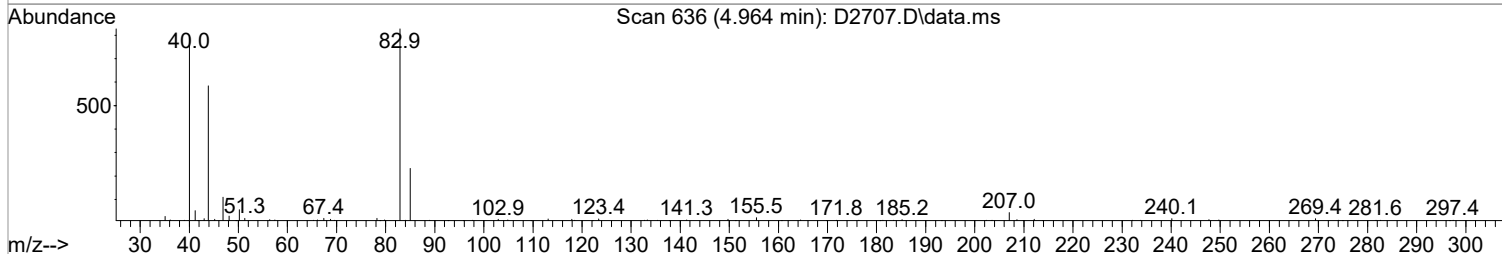
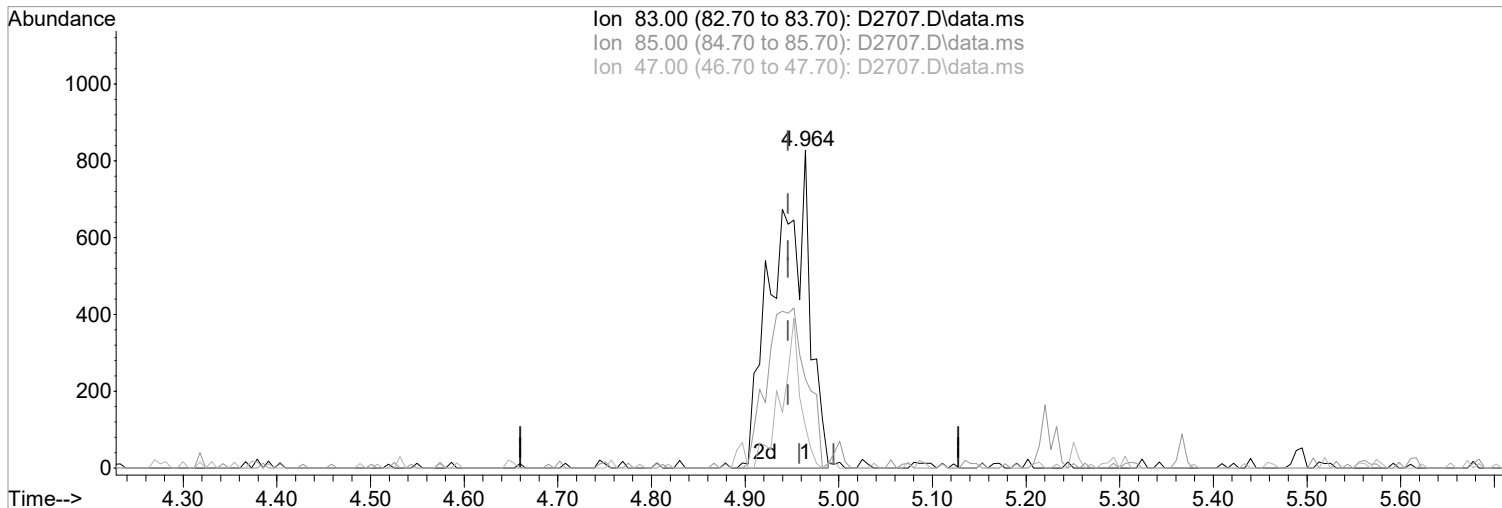
No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2707.D  
Acq On : 20 Apr 2018 3:17 pm  
Operator : D.LIPANI  
Sample : R1803412-005|1.0  
Misc : DAY 12666 T4  
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 15:31:53 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(39) Chloroform (P)  
4.964min (+0.018) 0.49 ug/L m  
response 2159

Manual Integration:  
After  
Peak not found.

Ion	Exp%	Act%
83.00	100	100
85.00	66.80	28.05#
47.00	28.80	13.18
0.00	0.00	0.00

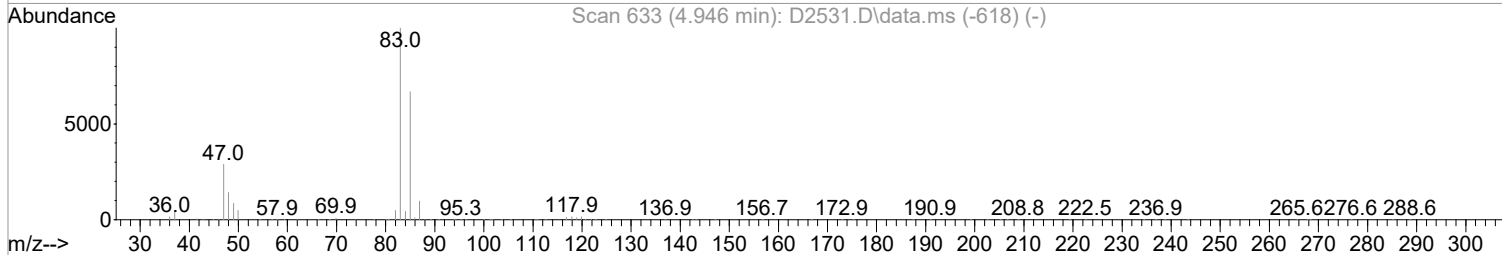
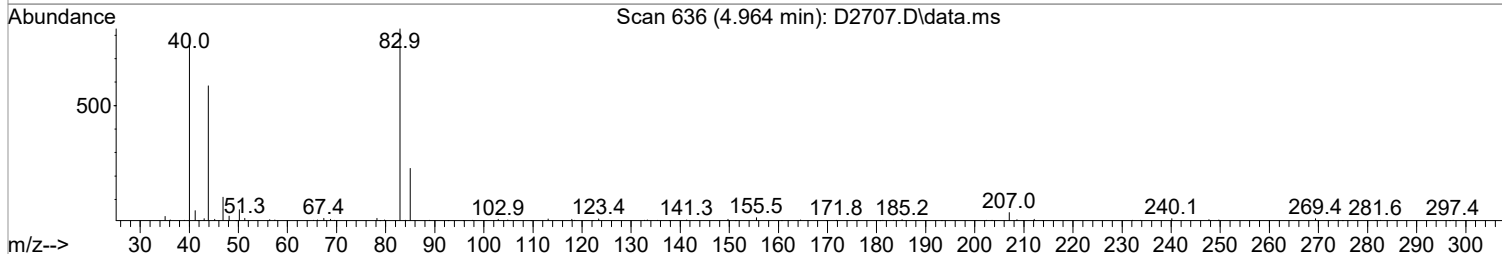
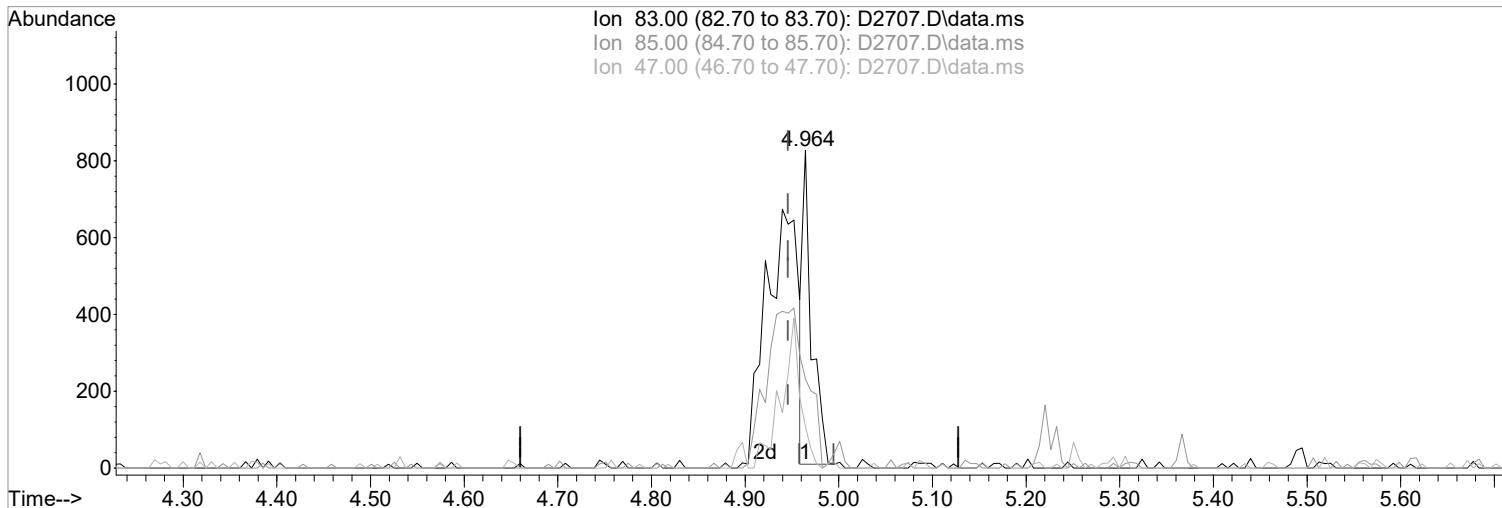
04/23/18



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2707.D  
 Acq On : 20 Apr 2018 3:17 pm  
 Operator : D.LIPANI  
 Sample : R1803412-005|1.0  
 Misc : DAY 12666 T4  
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 15:31:53 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration



TIC: D2707.D\data.ms

(39) Chloroform (P)

Manual Integration:

4.964min (+0.018) 0.12 ug/L

Before

response 543

Ion	Exp%	Act%
83.00	100	100
85.00	66.80	28.05#
47.00	28.80	13.18
0.00	0.00	0.00

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2707.D  
 Acq On : 20 Apr 2018 3:17 pm  
 Operator : D.LIPANI  
 Sample : R1803412-005|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 23 13:52:08 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	238862	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	366012	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	315235	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	161022	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.239	113	111976	48.24	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	96.48%	
46) surr1,1,2-dichloroetha...	5.781	65	163579	53.18	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.36%	
64) SURR3,Toluene-d8	8.305	98	456194	49.02	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.04%	
69) SURR2,BFB	10.878	95	173336	47.45	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	94.90%	
Target Compounds						
15) Acetone	2.318	43	1640	1.03	ug/L	Qvalue 87
39) Chloroform	4.964	83	2159m	0.49	ug/L	

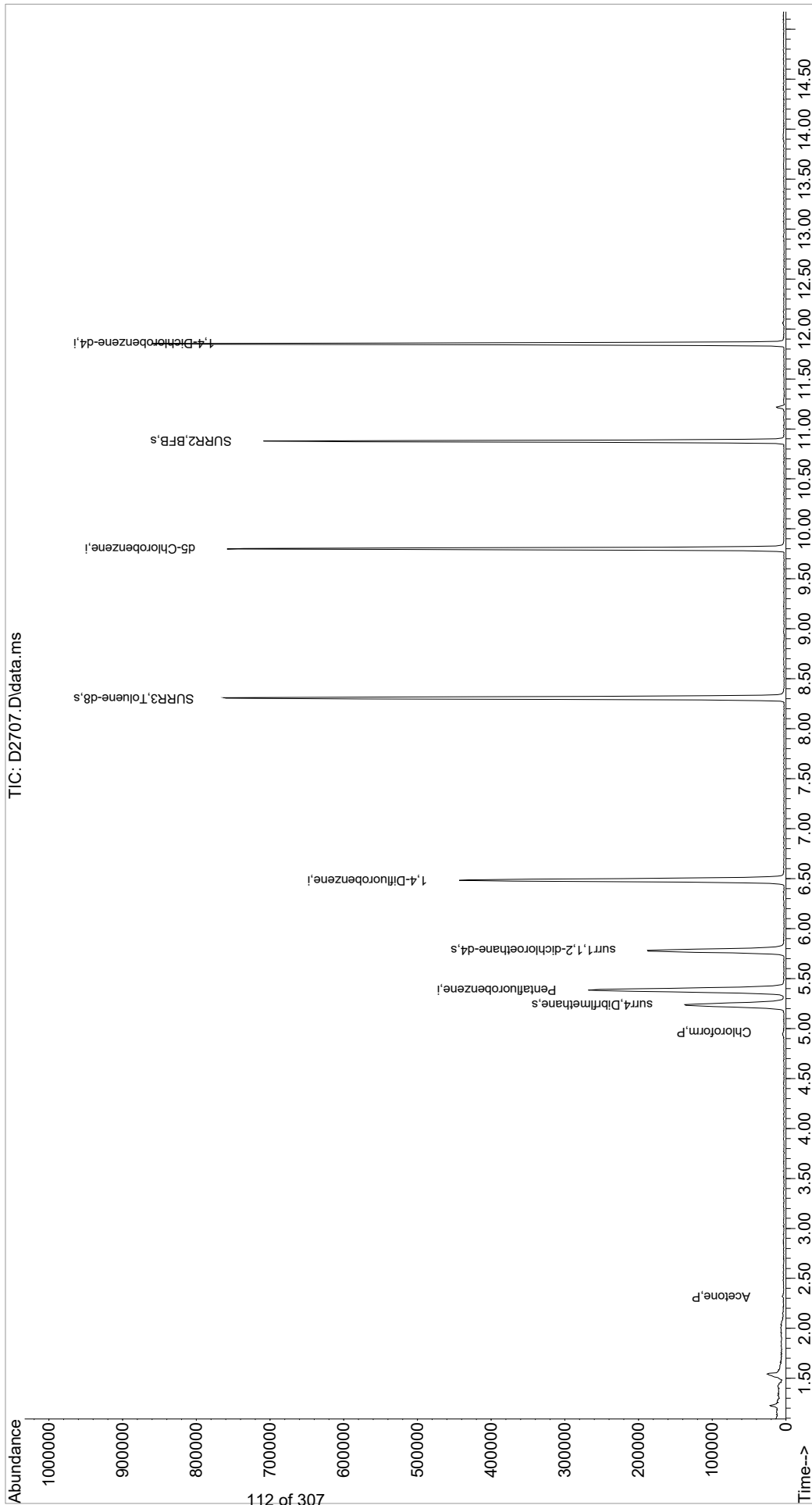
(#) = qualifier out of range (m) = manual integration (+) = signals summed

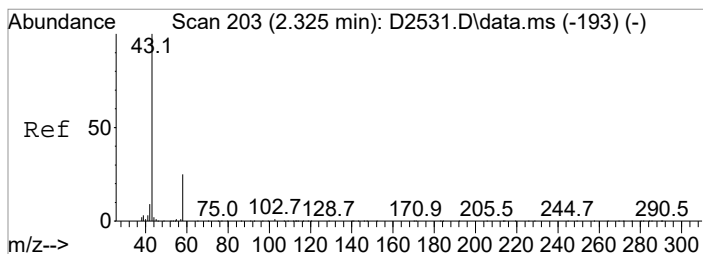
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2707.D  
Acq On : 20 Apr 2018 3:17 pm  
Operator : D.LIPANI  
Sample : R1803412-005|1.0  
Misc : DAY 12666 T4  
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

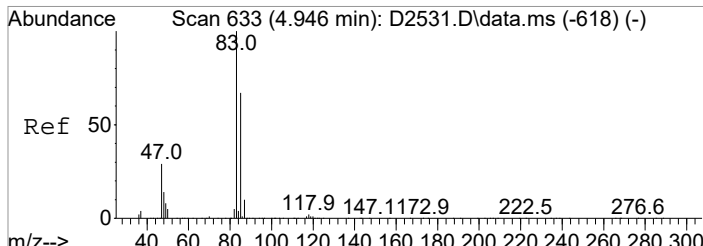
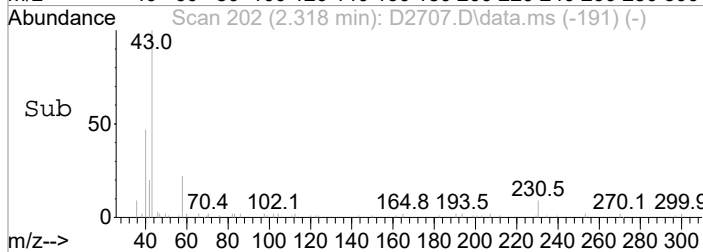
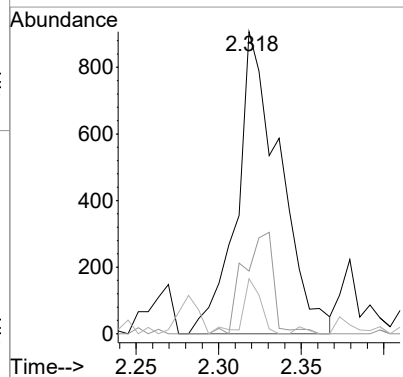
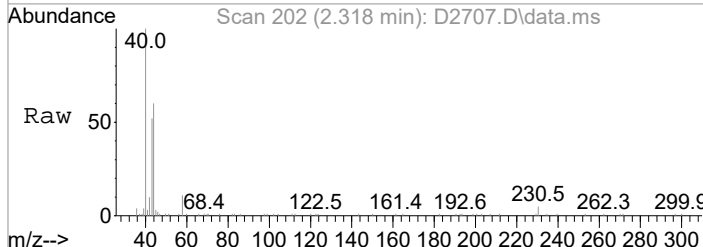
Quant Time: Apr 23 13:52:08 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





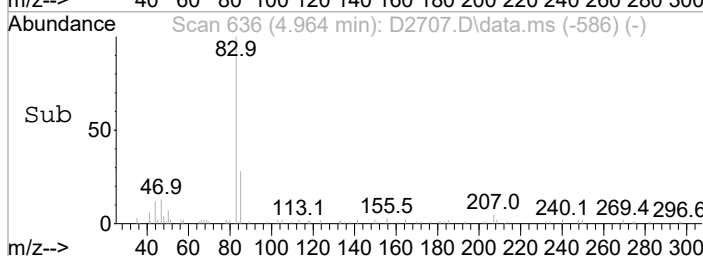
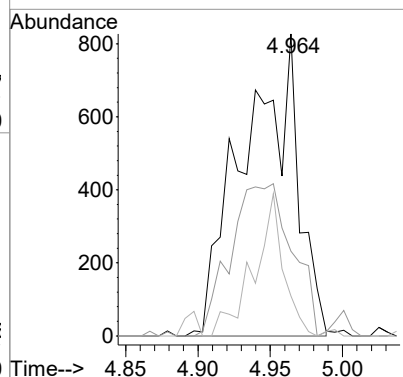
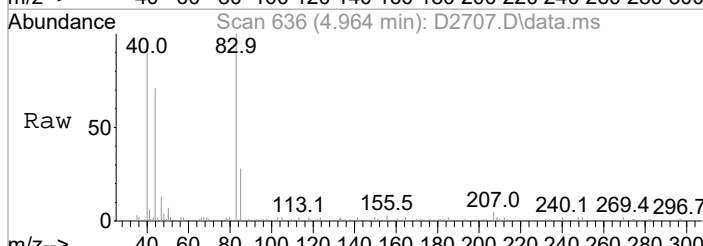
#15  
 Acetone  
 Concen: 1.03 ug/L  
 RT: 2.318 min Scan# 202  
 Delta R.T. -0.006 min  
 Lab File: D2707.D  
 Acq: 20 Apr 2018 3:17 pm

Tgt Ion	43	Resp	1640
Ion Ratio	Lower	Upper	
43	100		
58	20.7	5.2	45.2
42	18.2	0.0	29.2



#39  
 Chloroform  
 Concen: 0.49 ug/L m  
 RT: 4.964 min Scan# 636  
 Delta R.T. 0.018 min  
 Lab File: D2707.D  
 Acq: 20 Apr 2018 3:17 pm

Tgt Ion	83	Resp	2159
Ion Ratio	Lower	Upper	
83	100		
85	28.1	46.8	86.8#
47	13.2	8.8	48.8



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2707.D  
 Acq On : 20 Apr 2018 3:17 pm  
 Operator : D.LIPANI  
 Sample : R1803412-005|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2707.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.227	18	23	28	rVB2	11107	17071	1.34%	0.250%
2	1.544	65	75	83	rBV7	19687	57484	4.52%	0.841%
3	5.239	670	681	692	rBV2	134340	375328	29.49%	5.489%
4	5.385	694	705	722	rVB	265638	706652	55.53%	10.335%
5	5.781	757	770	782	rBV	185158	453693	35.65%	6.635%
6	6.482	876	885	899	rBV	440743	905746	71.17%	13.246%
7	8.311	1177	1185	1197	rBV	760152	1272579	100.00%	18.611%
8	9.799	1423	1429	1443	rBV	755652	1076358	84.58%	15.742%
9	10.878	1600	1606	1614	rVB	705951	886812	69.69%	12.970%
10	11.219	1657	1662	1666	rVB3	10648	15434	1.21%	0.226%
11	11.853	1760	1766	1774	rBV	857710	1070487	84.12%	15.656%

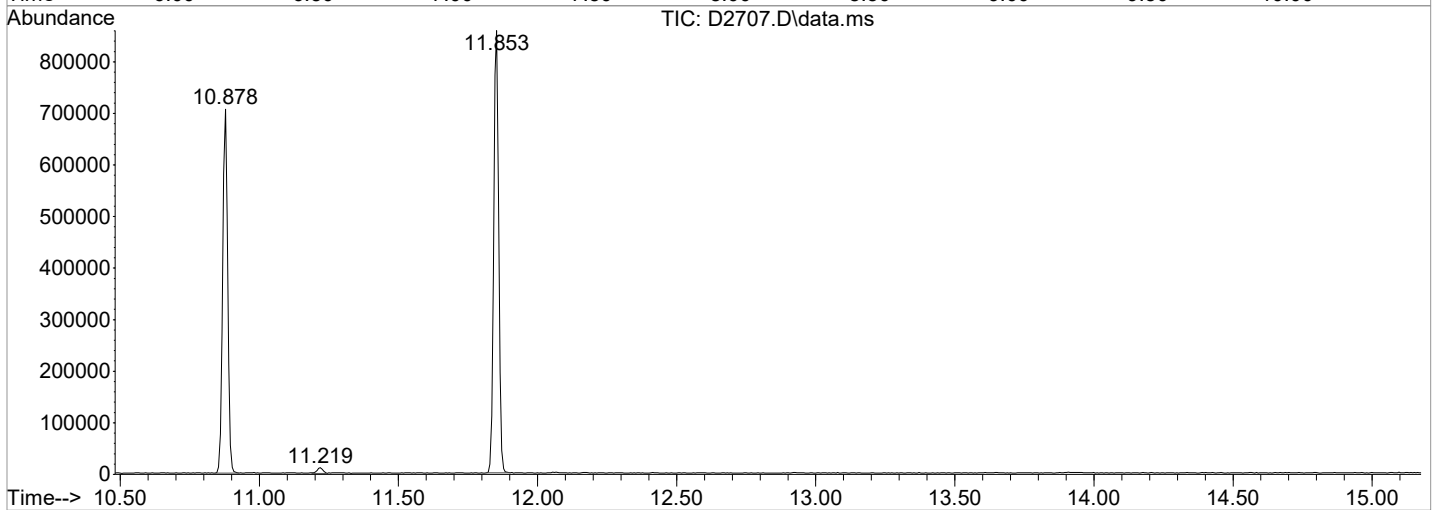
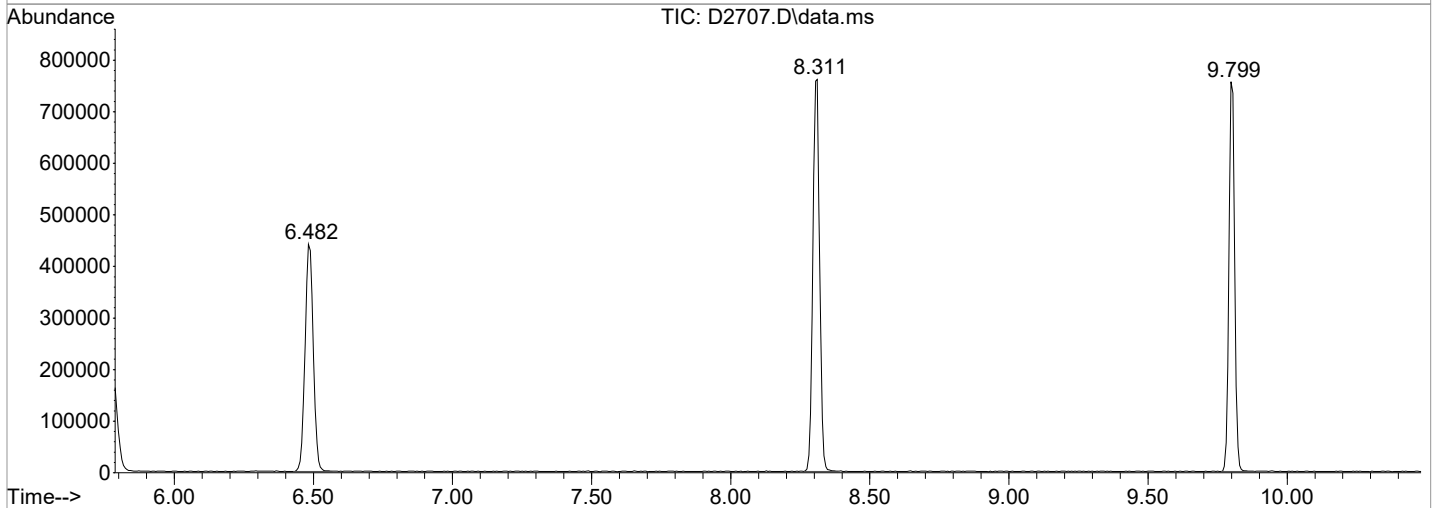
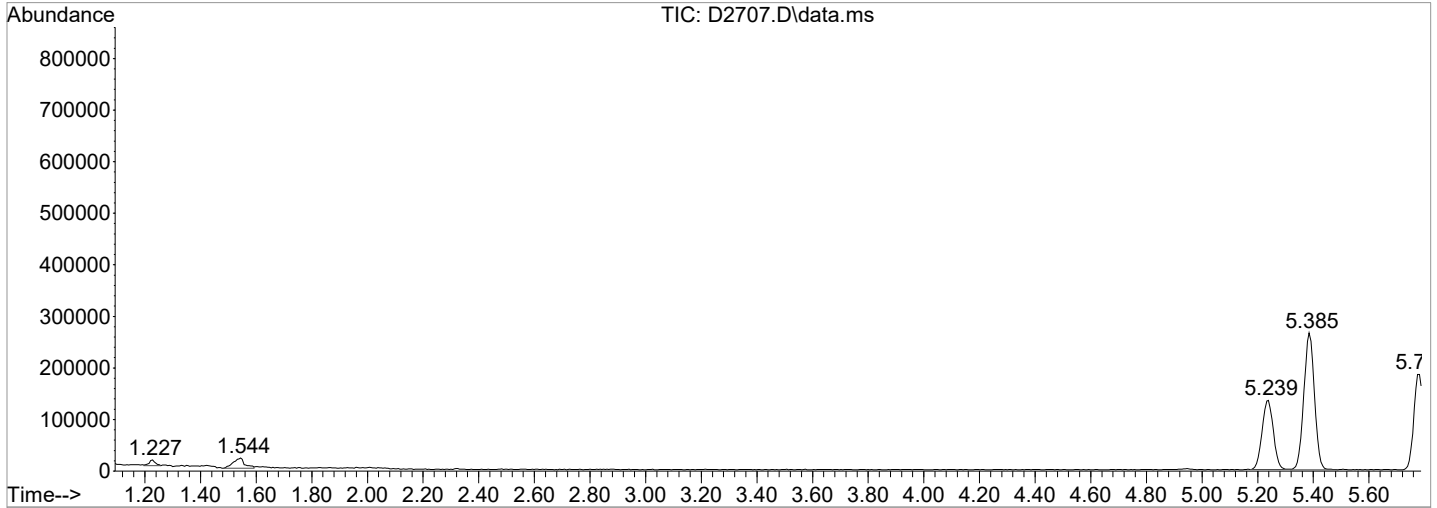
Sum of corrected areas: 6837644

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2707.D  
Acq On : 20 Apr 2018 3:17 pm  
Operator : D.LIPANI  
Sample : R1803412-005|1.0  
Misc : DAY 12666 T4  
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2707.D  
Acq On : 20 Apr 2018 3:17 pmm  
Operator : D.LIPANII  
Sample : R1803412-005|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 18 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2708.D  
 Acq On : 20 Apr 2018 3:39 pm  
 Operator : D.LIPANI  
 Sample : R1803412-006|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 23 13:54:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	230358	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	350181	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	305419	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	158151	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.239	113	109525	49.32	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	98.64%		
46) surr1,1,2-dichloroetha...	5.775	65	154419	52.47	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	104.94%		
64) SURR3,Toluene-d8	8.311	98	451565	50.72	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	101.44%		
69) SURR2,BFB	10.878	95	173462	49.63	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	99.26%		
Target Compounds						
5) Bromomethane	1.593	94	293	Below Cal		83
15) Acetone	2.331	43	1718	1.12 ug/L		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

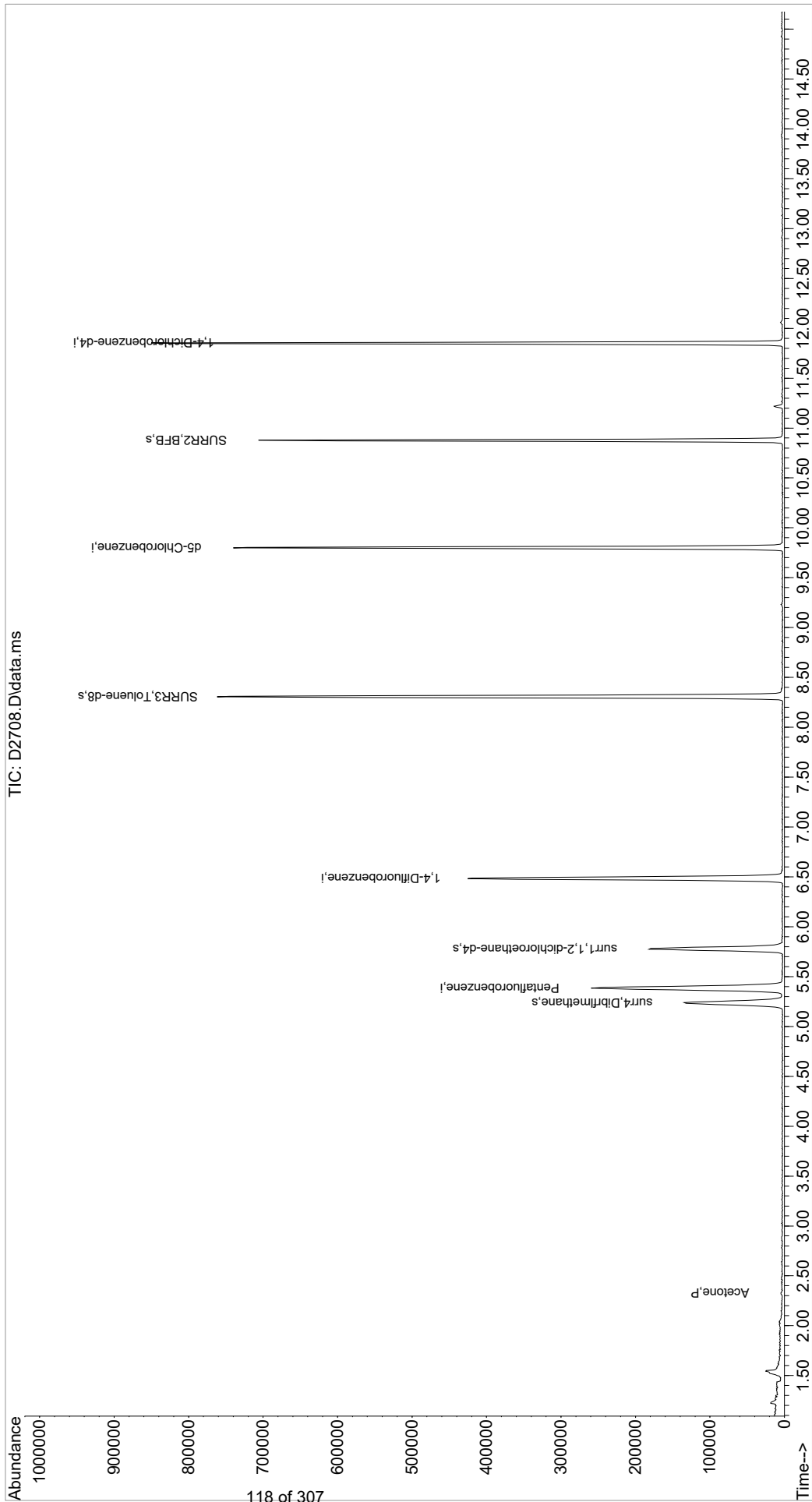


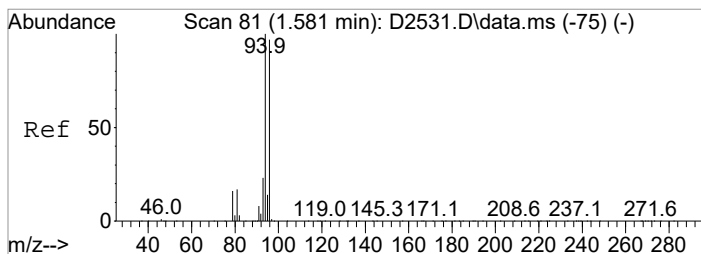
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2708.D  
Acq On : 20 Apr 2018 3:39 pm  
Operator : D.LIPANI  
Sample : R1803412-006|1.0  
Misc : DAY 12666 T4  
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA10

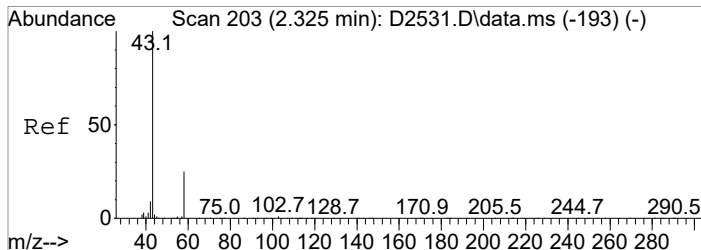
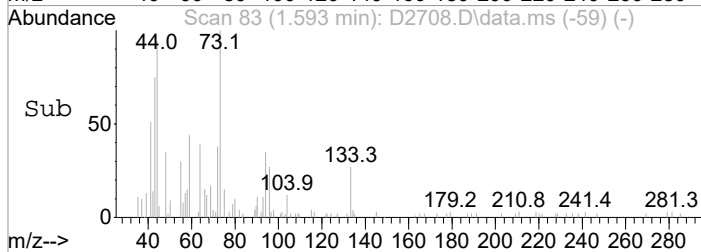
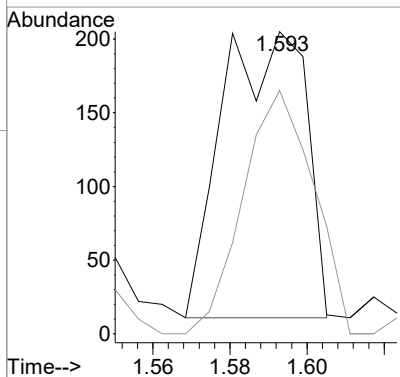
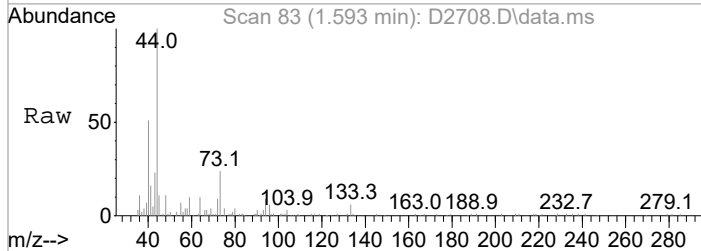
Quant Time: Apr 23 13:54:20 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





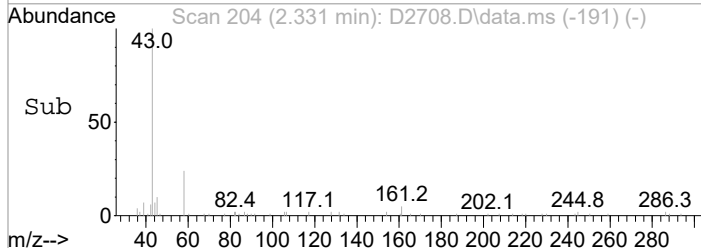
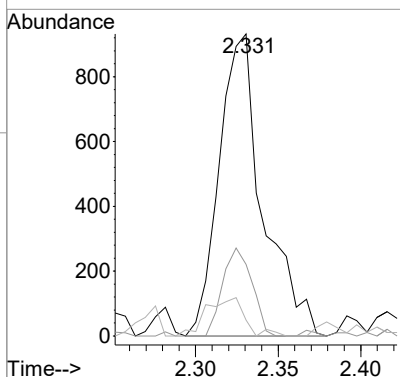
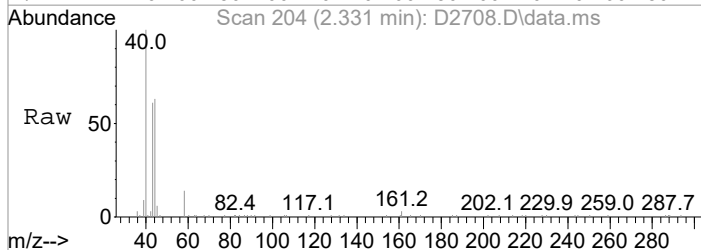
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.593 min Scan# 83  
 Delta R.T. 0.007 min  
 Lab File: D2708.D  
 Acq: 20 Apr 2018 3:39 pm

Tgt Ion	Resp	Lower	Upper
94	100		
96	80.5	77.7	117.7



#15  
 Acetone  
 Concen: 1.12 ug/L  
 RT: 2.331 min Scan# 204  
 Delta R.T. 0.006 min  
 Lab File: D2708.D  
 Acq: 20 Apr 2018 3:39 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	23.7	5.2	45.2
42	5.3	0.0	29.2



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2708.D  
 Acq On : 20 Apr 2018 3:39 pm  
 Operator : D.LIPANI  
 Sample : R1803412-006|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2708.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.544	64	75	86	rBV4	20033	63812	5.12%	0.957%
2	5.239	668	681	694	rBV	131966	368438	29.57%	5.525%
3	5.385	694	705	718	rVB	256300	673338	54.05%	10.097%
4	5.775	760	769	780	rBV	179401	438058	35.16%	6.569%
5	6.482	877	885	894	rBV	422499	873757	70.14%	13.103%
6	8.305	1176	1184	1194	rBV	759309	1245792	100.00%	18.682%
7	9.799	1423	1429	1438	rVB	737509	1043041	83.73%	15.642%
8	10.878	1598	1606	1615	rBV	703447	884961	71.04%	13.271%
9	11.219	1658	1662	1668	rBV5	11123	14922	1.20%	0.224%
10	11.853	1760	1766	1775	rVB	847434	1062275	85.27%	15.930%

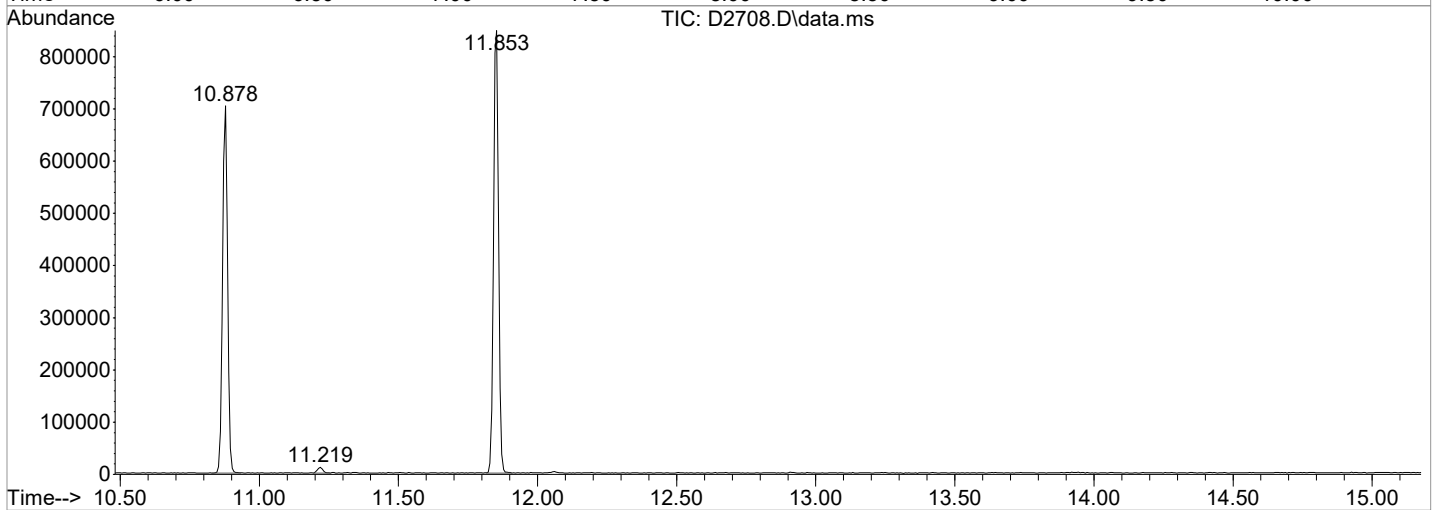
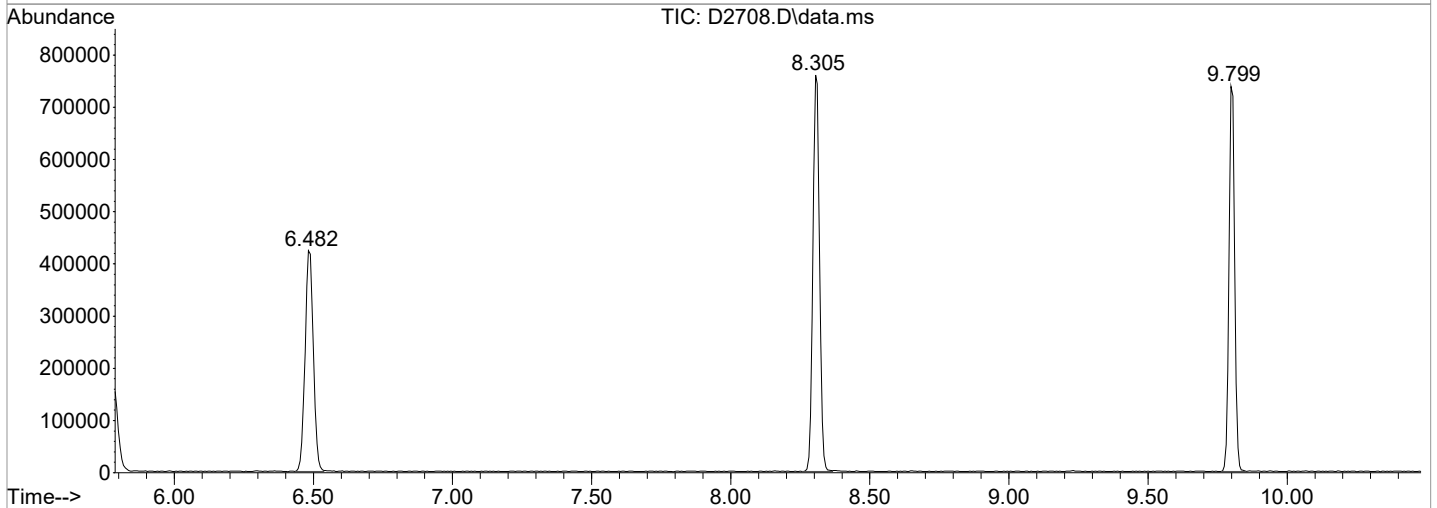
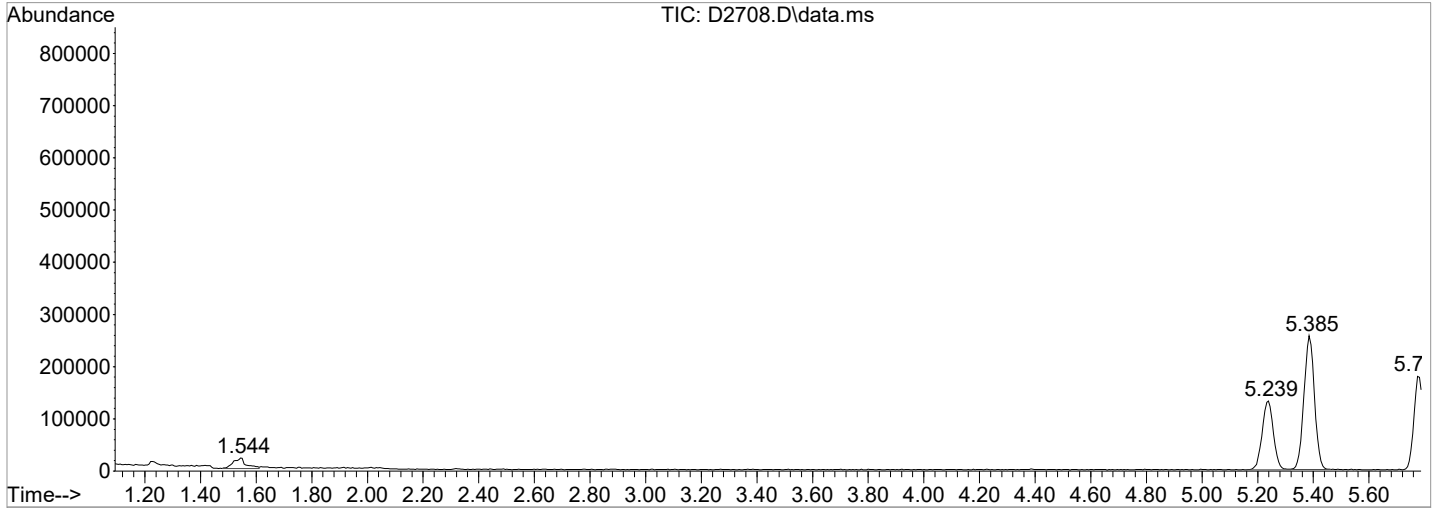
Sum of corrected areas: 6668394

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2708.D  
Acq On : 20 Apr 2018 3:39 pm  
Operator : D.LIPANI  
Sample : R1803412-006|1.0  
Misc : DAY 12666 T4  
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2708.D  
Acq On : 20 Apr 2018 3:39 pmm  
Operator : D.LIPANII  
Sample : R1803412-006|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 19 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

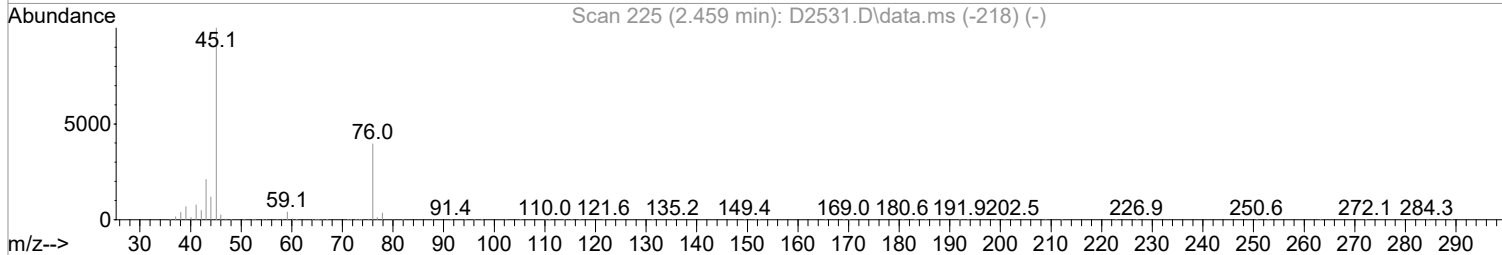
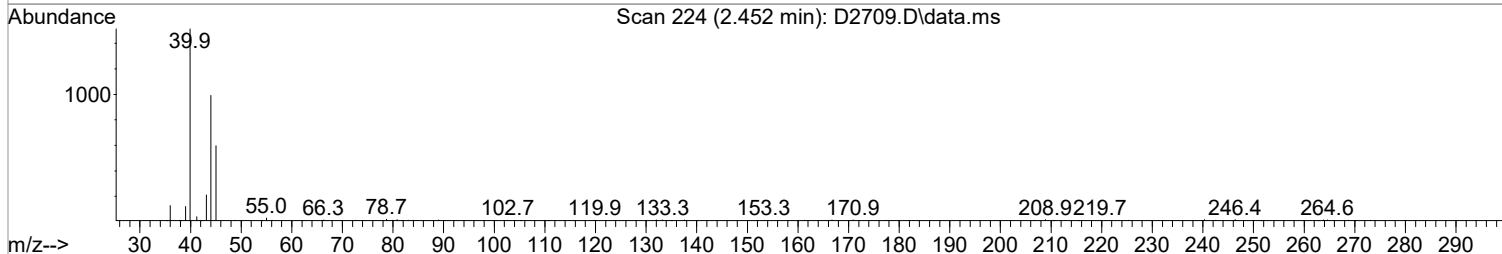
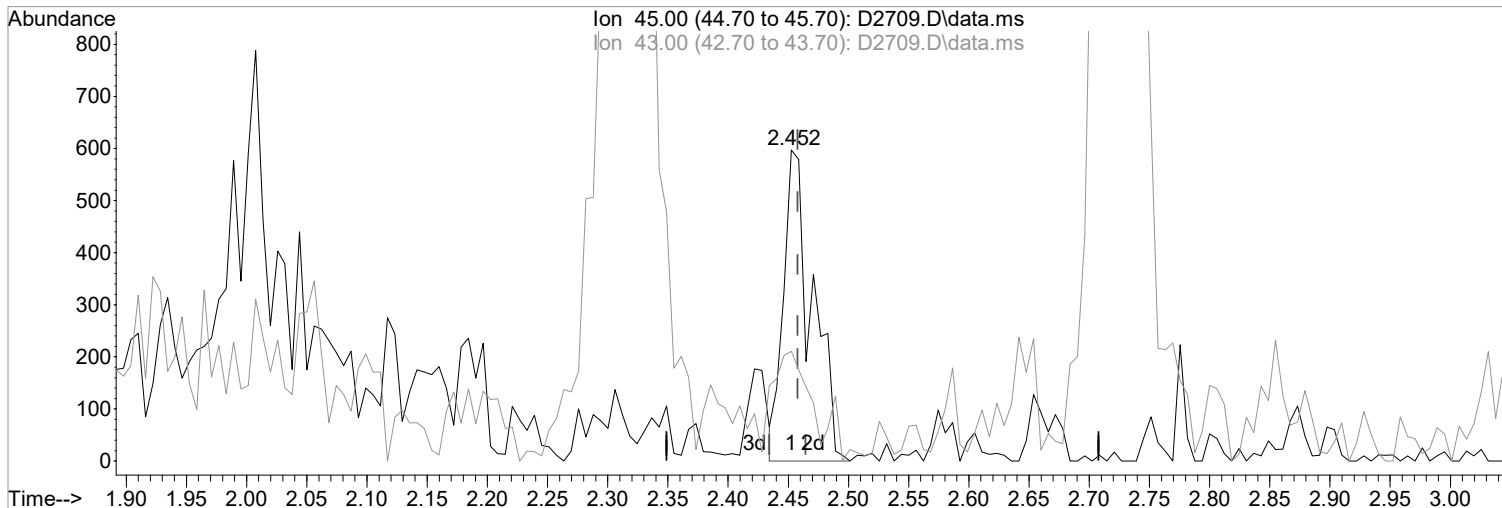
No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 16:15:19 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(16) 2-Propanol  
2.452min (-0.006) 2.97 ug/L m  
response 989

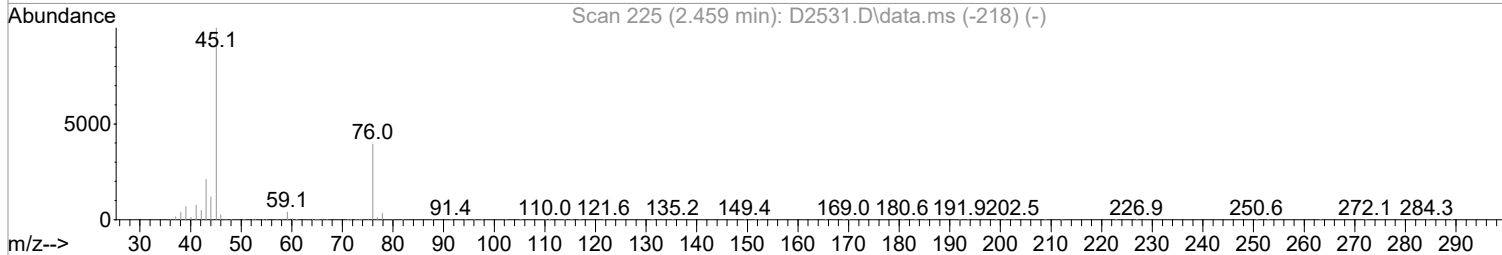
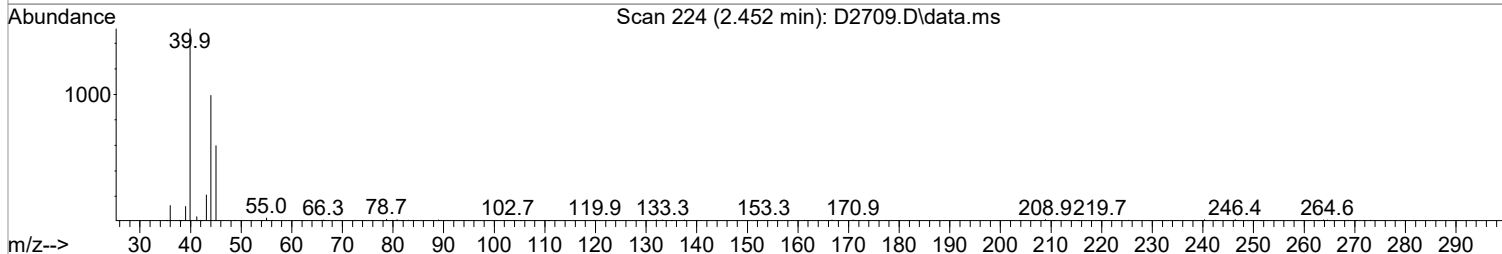
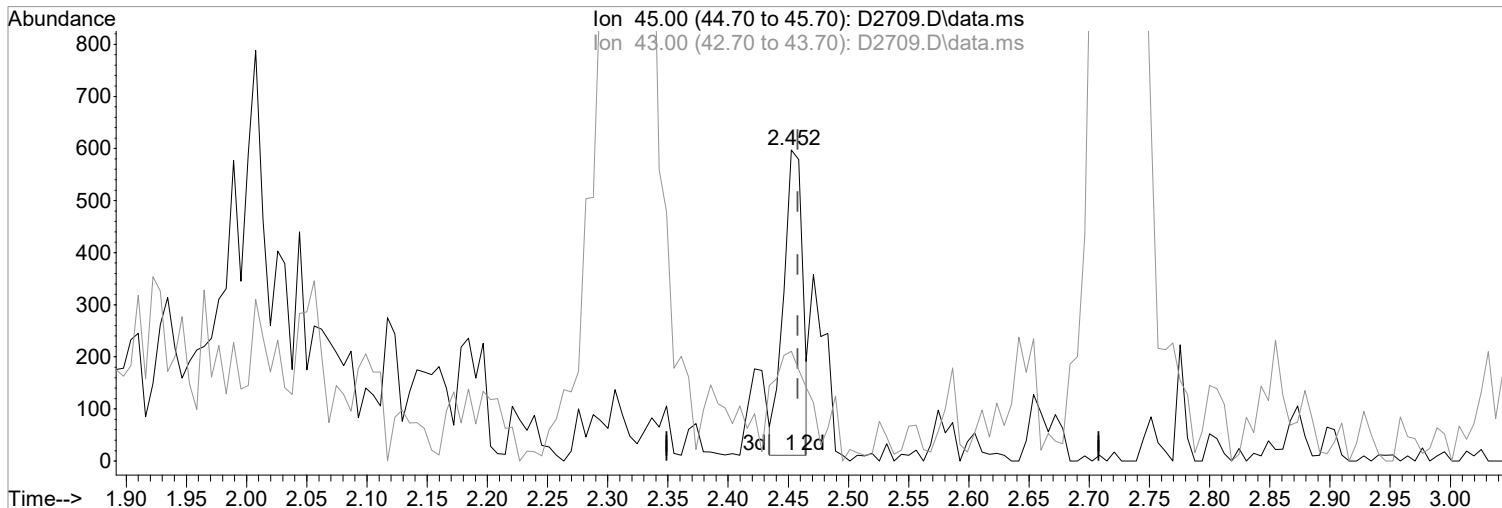
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
45.00	100	100
43.00	21.30	35.34
0.00	0.00	0.00
0.00	0.00	0.00

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2709.D  
 Acq On : 20 Apr 2018 4:01 pm  
 Operator : D.LIPANI  
 Sample : R1803412-007|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 20 16:15:19 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

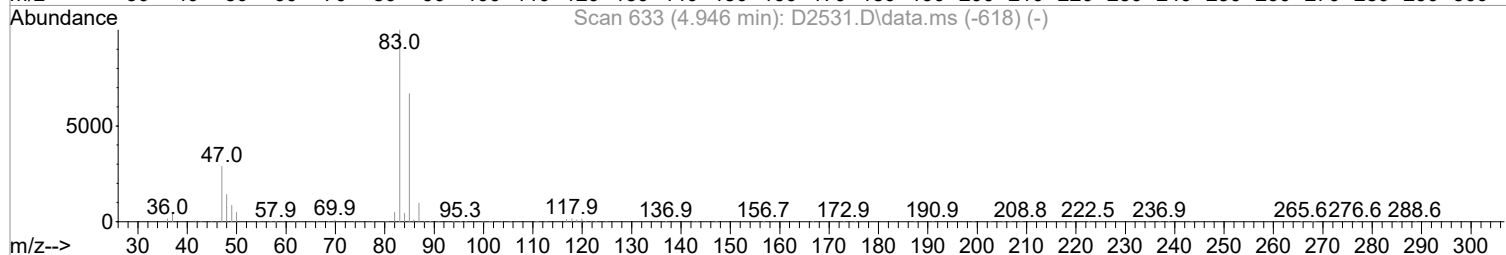
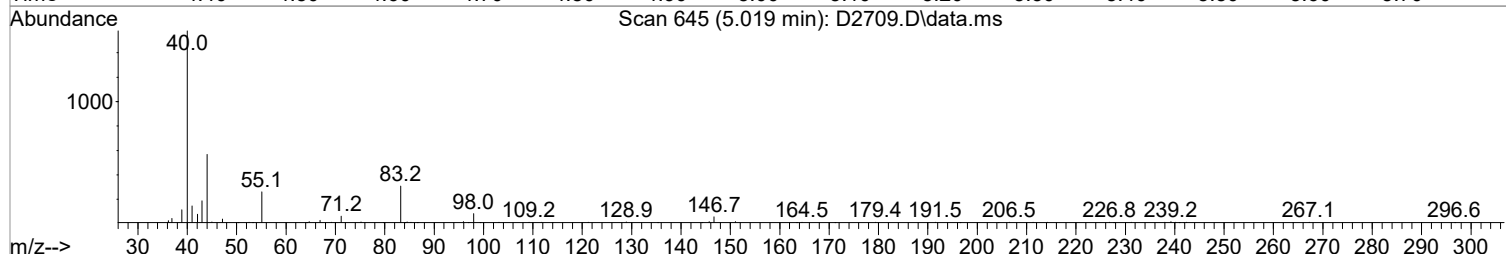
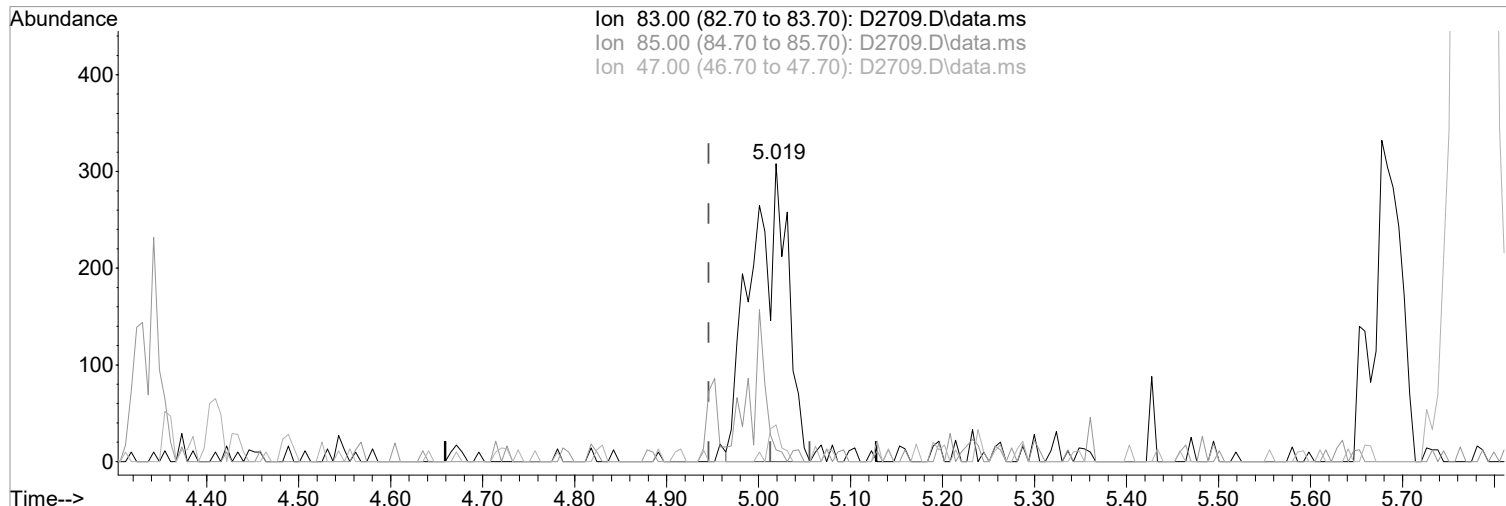


(16) 2-Propanol Manual Integration:  
 2.452min (-0.006) 1.95 ug/L Before  
 response 650  
 04/23/18

Ion	Exp%	Act%
45.00	100	100
43.00	21.30	35.34
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0 Inst : MSVOA10  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 20 16:15:19 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(39) Chloroform (P)

5.019min (+0.073) 0.19 ug/L m

response 850

Ion	Exp%	Act%
83.00	100	100
85.00	66.80	3.90#
47.00	28.80	12.34
0.00	0.00	0.00

Manual Integration:

After

Peak not found.

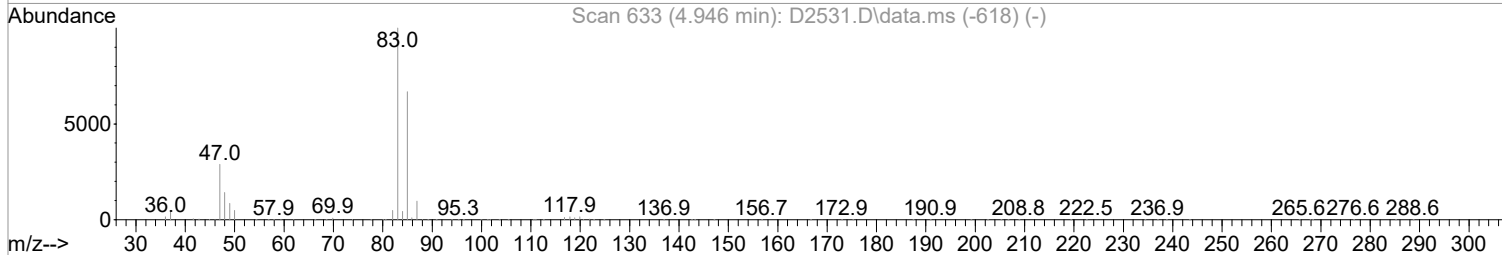
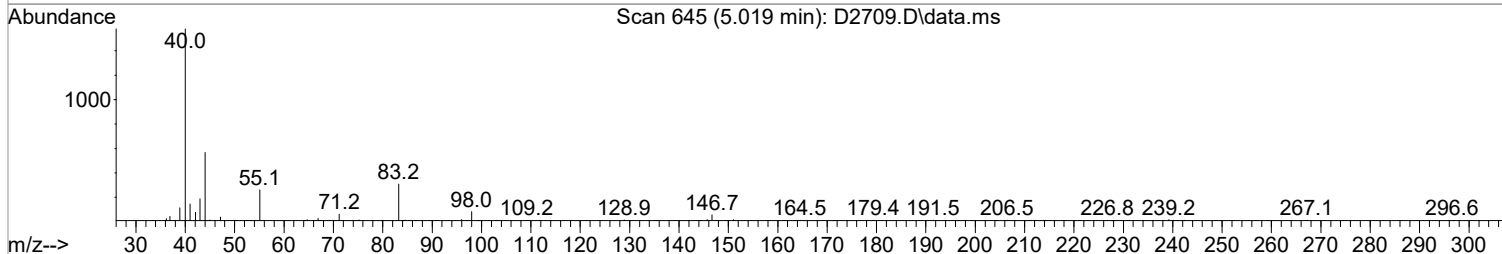
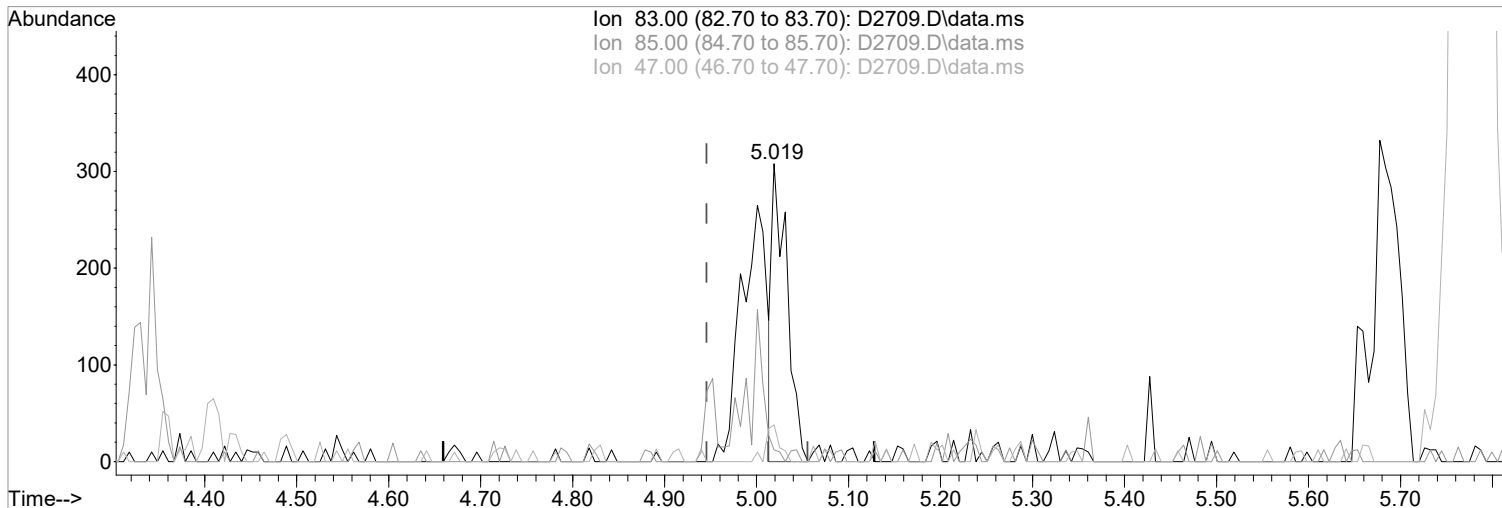
04/23/18



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 16:15:19 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(39) Chloroform (P)

Manual Integration:

5.019min (+0.073) 0.08 ug/L

Before

response 350

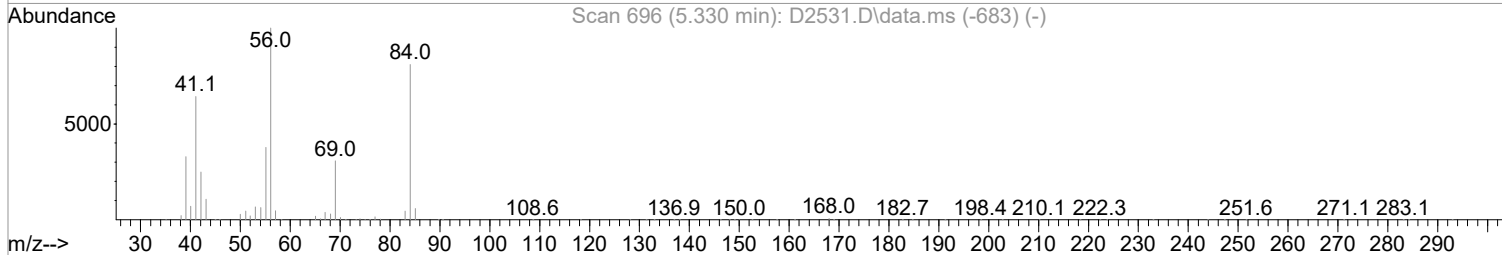
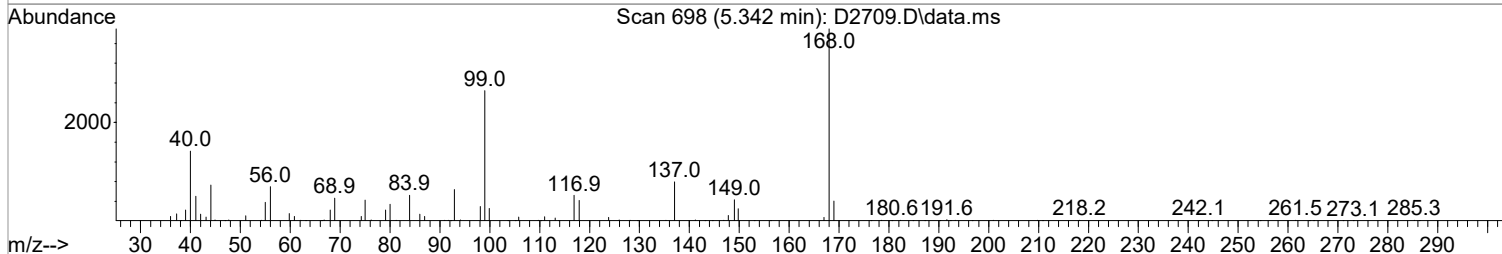
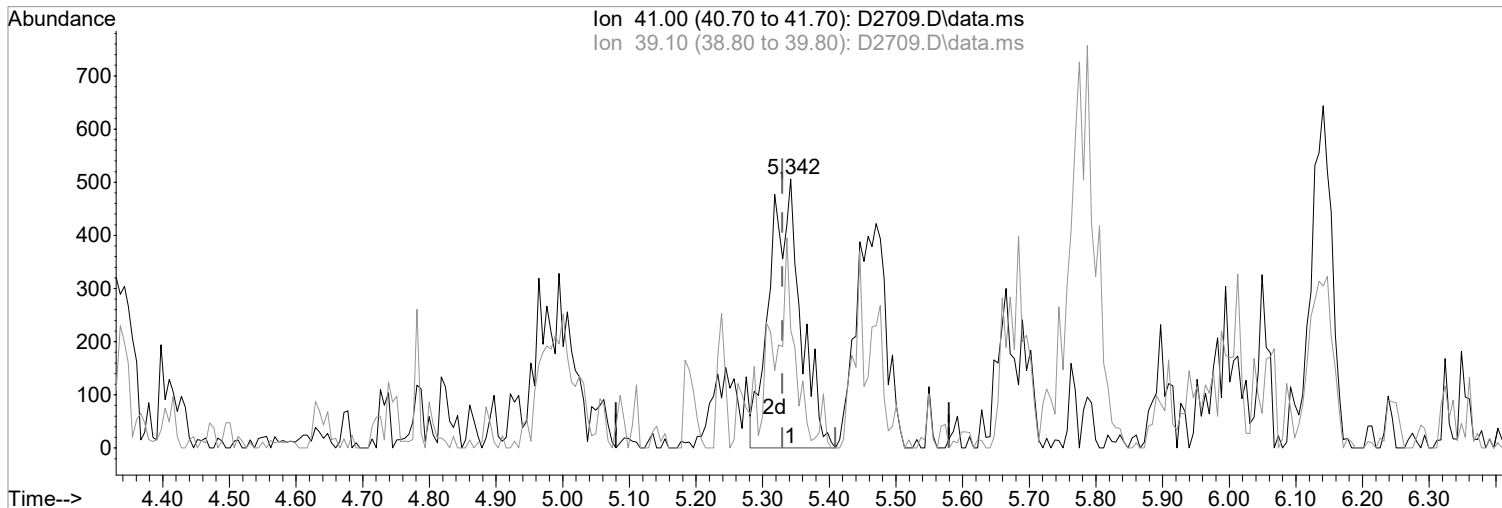
Ion	Exp%	Act%
83.00	100	100
85.00	66.80	3.90#
47.00	28.80	12.34
0.00	0.00	0.00

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 16:15:19 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



TIC: D2709.D\data.ms

(42) Cyclohexane (P)  
5.342min (+0.012) 0.56 ug/L m  
response 1632

Manual Integration:

After

Poor integration.

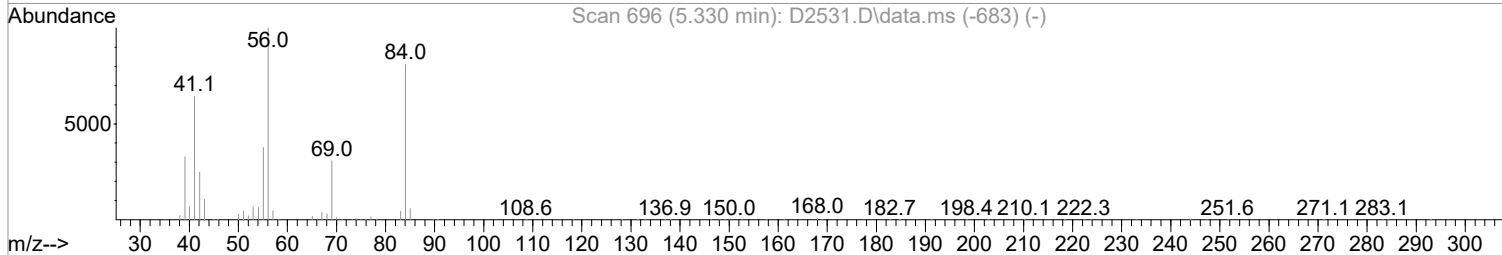
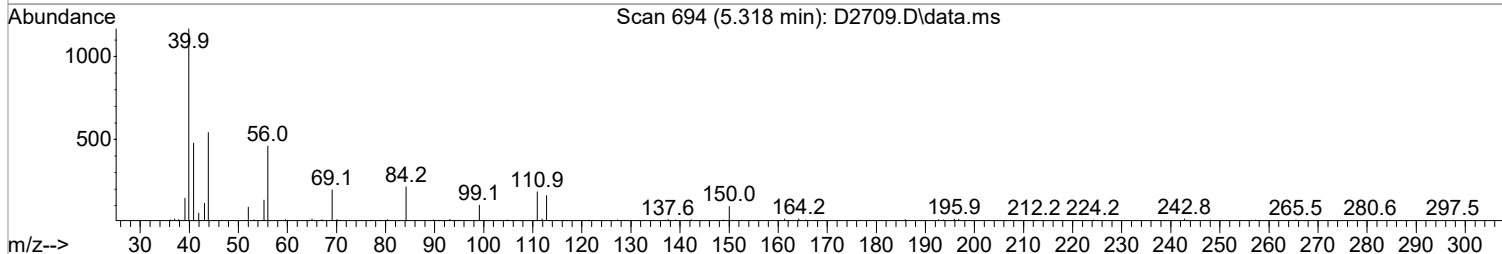
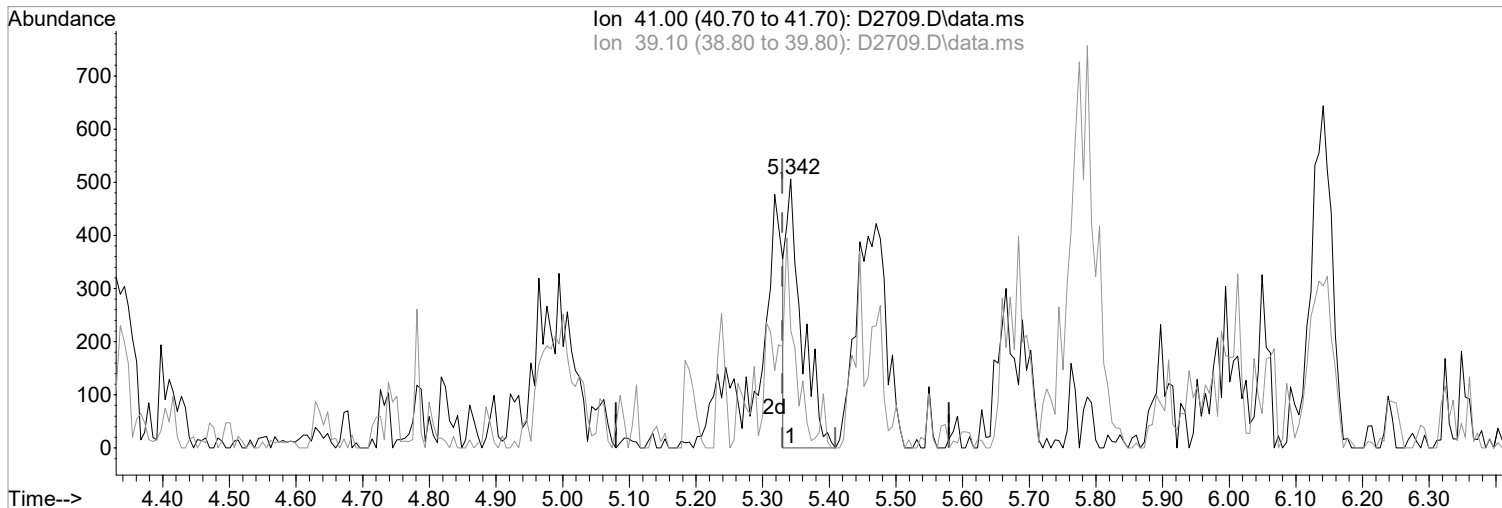
04/23/18

Ion	Exp%	Act%
41.00	100	100
39.10	51.50	43.87
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 16:15:19 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(42) Cyclohexane (P)  
5.342min (+0.012) 0.29 ug/L  
response 846

Manual Integration:  
Before

Ion	Exp%	Act%
41.00	100	100
39.10	51.50	43.87
0.00	0.00	0.00
0.00	0.00	0.00

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2709.D  
 Acq On : 20 Apr 2018 4:01 pm  
 Operator : D.LIPANI  
 Sample : R1803412-007|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 23 14:00:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	236457	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	357909	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	312498	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	160094	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.232	113	113434	49.98	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.96%	
46) surr1,1,2-dichloroetha...	5.775	65	161544	53.71	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	107.42%	
64) SURR3,Toluene-d8	8.305	98	456162	50.13	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.26%	
69) SURR2,BFB	10.878	95	175617	49.16	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.32%	
Target Compounds						
5) Bromomethane	1.587	94	289	Below Cal	Qvalue #	62
15) Acetone	2.324	43	5642	3.57	ug/L	94
29) DIPE	3.647	45	2871	0.29	ug/L	81
42) Cyclohexane	5.342	41	1632m	0.56	ug/L	
99) tert-Butylbenzene	11.536	119	2015	0.25	ug/L	96

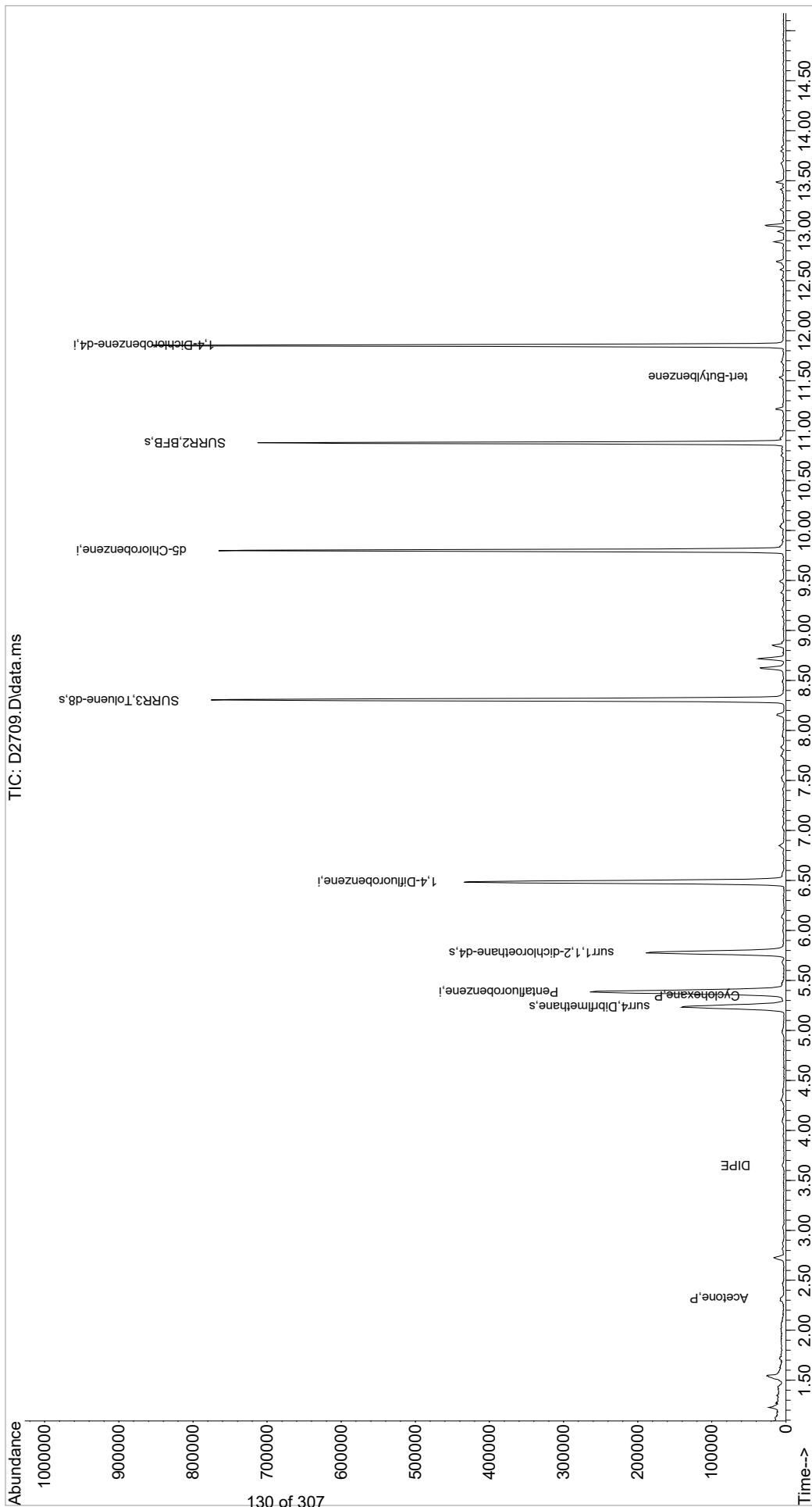
(#) = qualifier out of range (m) = manual integration (+) = signals summed

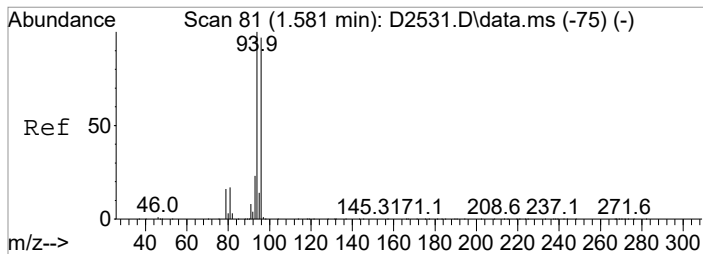
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA10

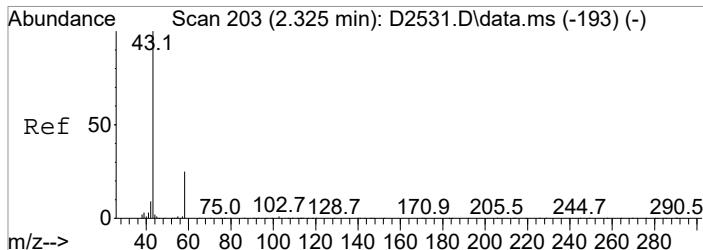
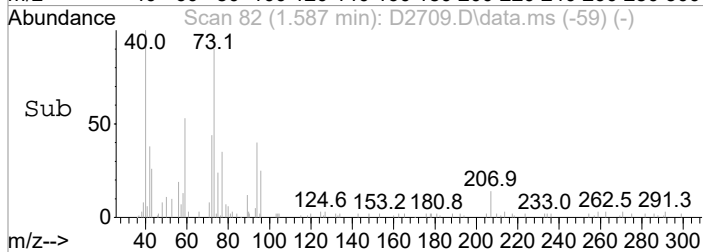
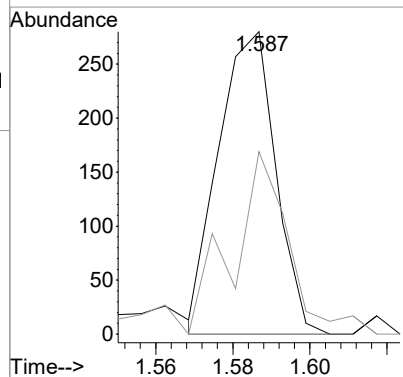
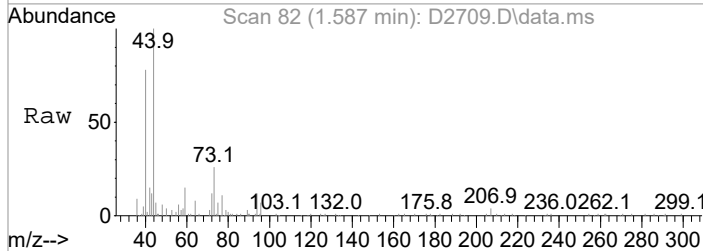
Quant Time: Apr 23 14:00:58 2018  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





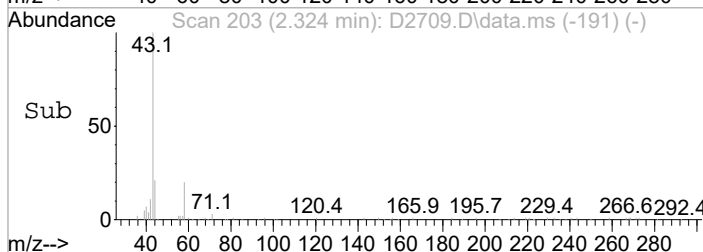
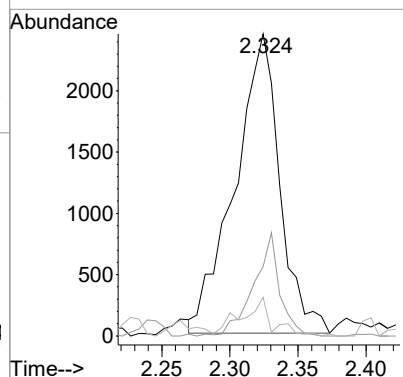
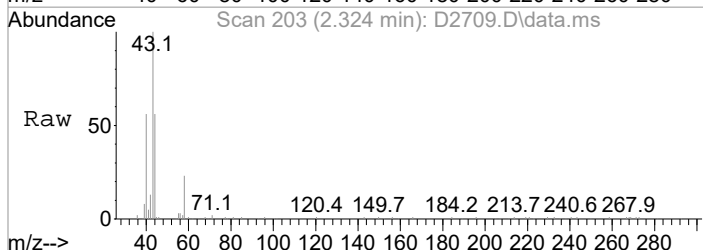
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.587 min Scan# 82  
 Delta R.T. 0.001 min  
 Lab File: D2709.D  
 Acq: 20 Apr 2018 4:01 pm

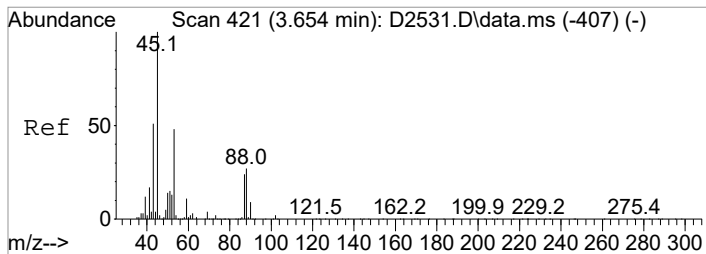
Tgt Ion	Resp	Lower	Upper
94	100		
96	60.4	77.7	117.7#



#15  
 Acetone  
 Concen: 3.57 ug/L  
 RT: 2.324 min Scan# 203  
 Delta R.T. 0.000 min  
 Lab File: D2709.D  
 Acq: 20 Apr 2018 4:01 pm

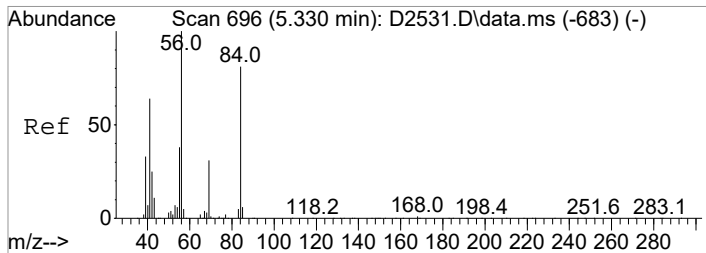
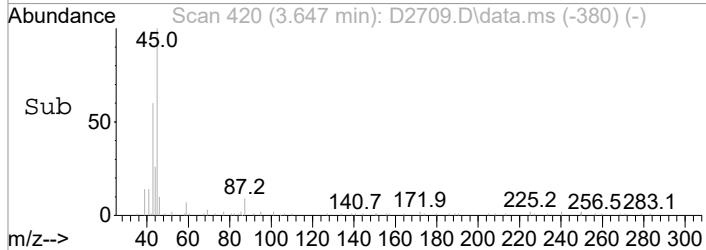
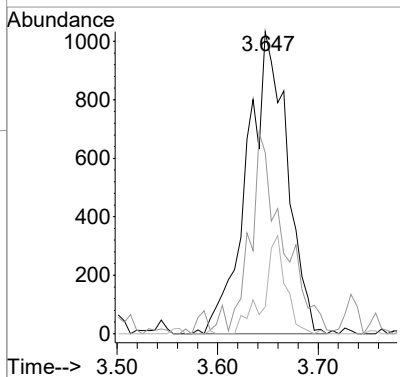
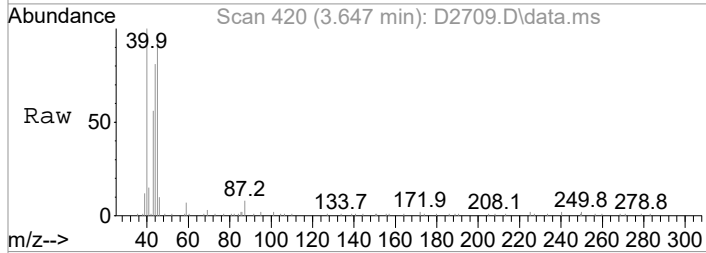
Tgt Ion	Resp	Lower	Upper
43	100		
58	23.0	5.2	45.2
42	12.7	0.0	29.2





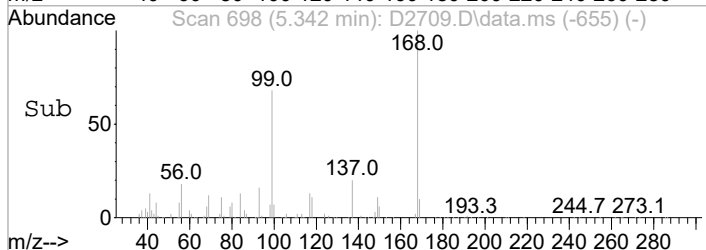
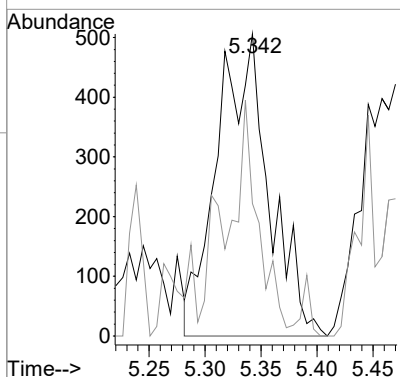
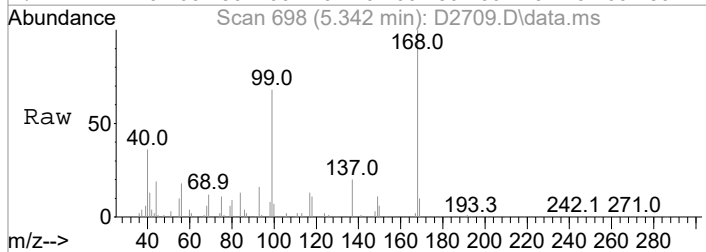
#29  
 DIPE  
 Concen: 0.29 ug/L  
 RT: 3.647 min Scan# 420  
 Delta R.T. -0.006 min  
 Lab File: D2709.D  
 Acq: 20 Apr 2018 4:01 pm

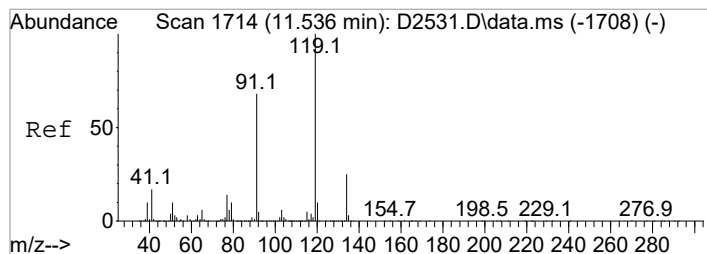
Tgt Ion	45	Resp	2871
Ion Ratio	Lower	Upper	
45	100		
43	59.9	30.8	70.8
87	8.9	4.0	44.0



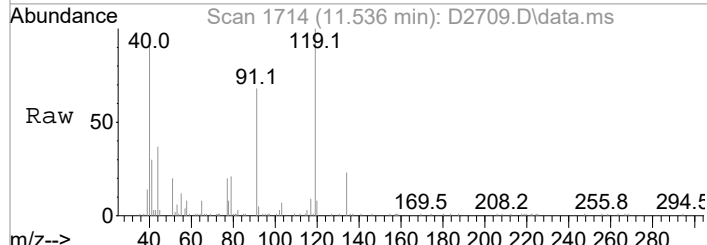
#42  
 Cyclohexane  
 Concen: 0.56 ug/L m  
 RT: 5.342 min Scan# 698  
 Delta R.T. 0.012 min  
 Lab File: D2709.D  
 Acq: 20 Apr 2018 4:01 pm

Tgt Ion	41	Resp	1632
Ion Ratio	Lower	Upper	
41	100		
39	43.9	31.5	71.5

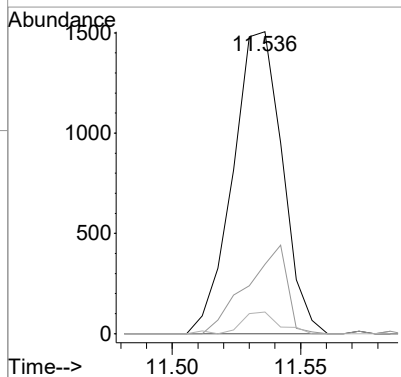
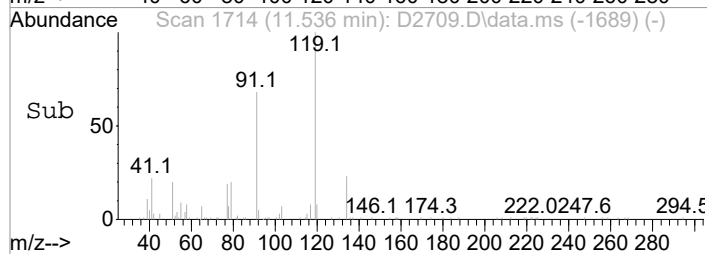




#99  
tert-Butylbenzene  
Concen: 0.25 ug/L  
RT: 11.536 min Scan# 1714  
Delta R.T. 0.000 min  
Lab File: D2709.D  
Acq: 20 Apr 2018 4:01 pm



Tgt Ion	Resp	Lower	Upper
119	100		
134	23.0	5.0	45.0
103	7.2	0.0	26.2





Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2709.D  
 Acq On : 20 Apr 2018 4:01 pm  
 Operator : D.LIPANI  
 Sample : R1803412-007|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 20 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2709.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.227	19	23	29	rVB2	12183	17671	1.38%	0.250%
2	1.544	64	75	79	rBV6	20398	53087	4.14%	0.751%
3	2.727	263	269	274	rVB3	12721	24193	1.88%	0.342%
4	5.232	668	680	690	rBV	137798	377809	29.44%	5.343%
5	5.385	694	705	717	rVV	259476	688561	53.65%	9.738%
6	5.775	759	769	781	rBV	186227	446708	34.81%	6.317%
7	6.482	875	885	895	rBV	431588	893118	69.59%	12.631%
8	8.153	1151	1159	1167	rVB4	9754	19648	1.53%	0.278%
9	8.305	1173	1184	1195	rBV	772974	1283454	100.00%	18.151%
10	8.628	1229	1237	1246	rVB	31318	54300	4.23%	0.768%
11	8.720	1246	1252	1259	rBV	33670	53050	4.13%	0.750%
12	8.854	1269	1274	1278	rBV	14821	22893	1.78%	0.324%
13	9.799	1423	1429	1435	rBV	761713	1063113	82.83%	15.035%
14	10.042	1464	1469	1476	rVB9	5524	13707	1.07%	0.194%
15	10.878	1600	1606	1612	rBV	708241	887583	69.16%	12.552%
16	11.219	1655	1662	1667	rBV2	10004	14444	1.13%	0.204%
17	11.853	1760	1766	1775	rBV	852364	1077573	83.96%	15.239%
18	12.694	1895	1904	1911	rBV3	10009	18667	1.45%	0.264%
19	12.889	1931	1936	1940	rVB	13282	16029	1.25%	0.227%
20	13.054	1959	1963	1967	rVB2	24670	31363	2.44%	0.444%
21	13.487	2030	2034	2042	rVB2	10101	14026	1.09%	0.198%

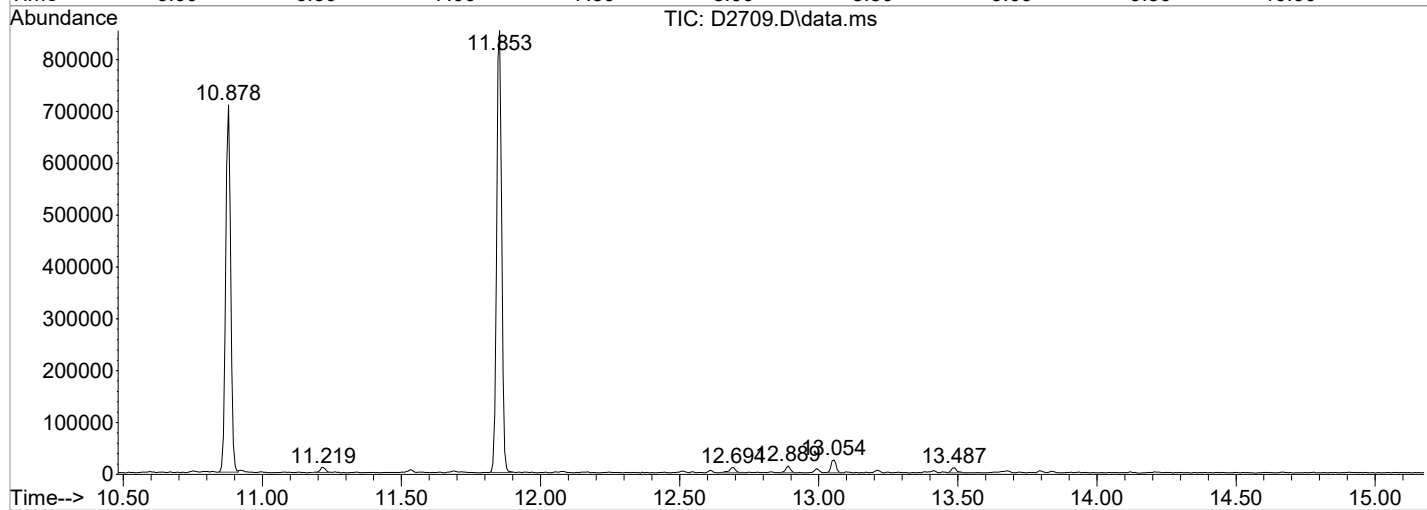
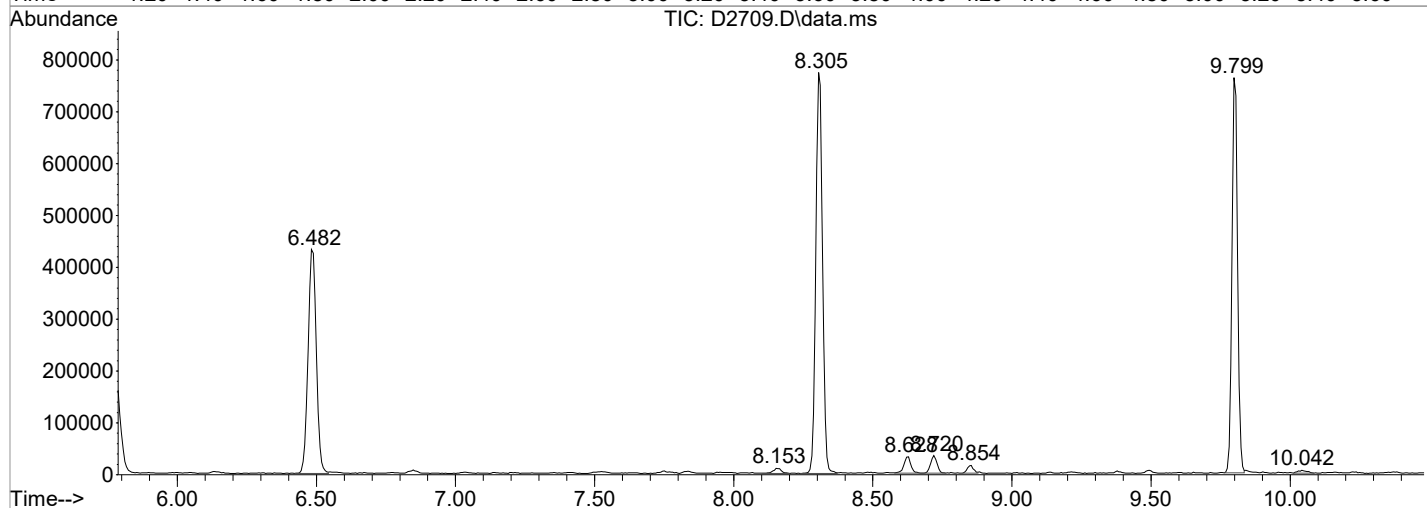
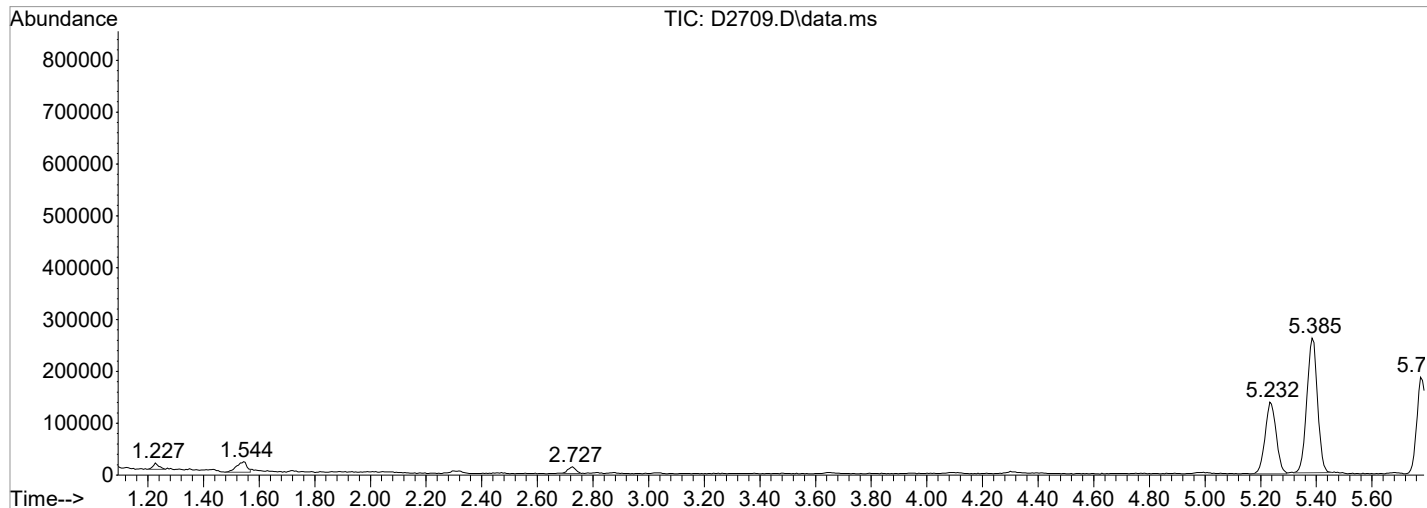
Sum of corrected areas: 7070997

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pm  
Operator : D.LIPANI  
Sample : R1803412-007|1.0  
Misc : DAY 12666 T4  
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2709.D  
Acq On : 20 Apr 2018 4:01 pmm  
Operator : D.LIPANII  
Sample : R1803412-007|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 20 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

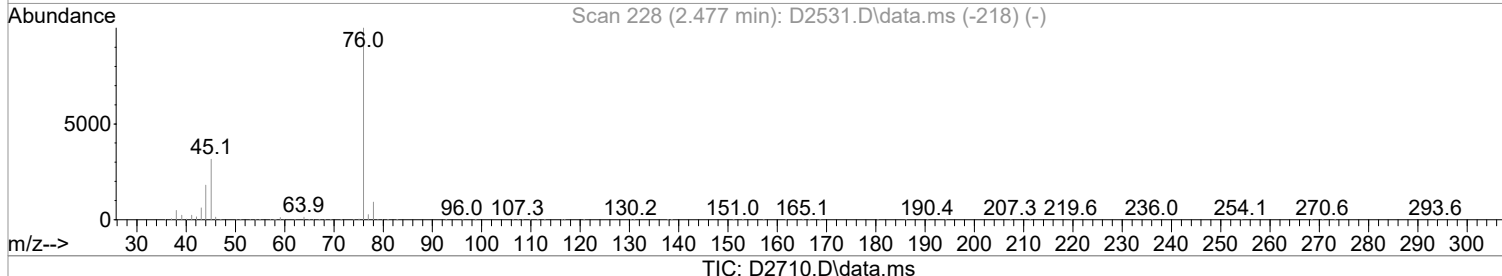
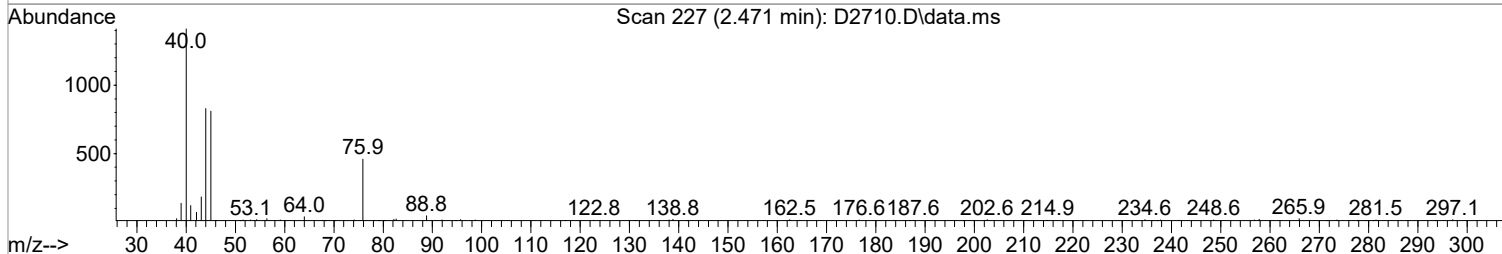
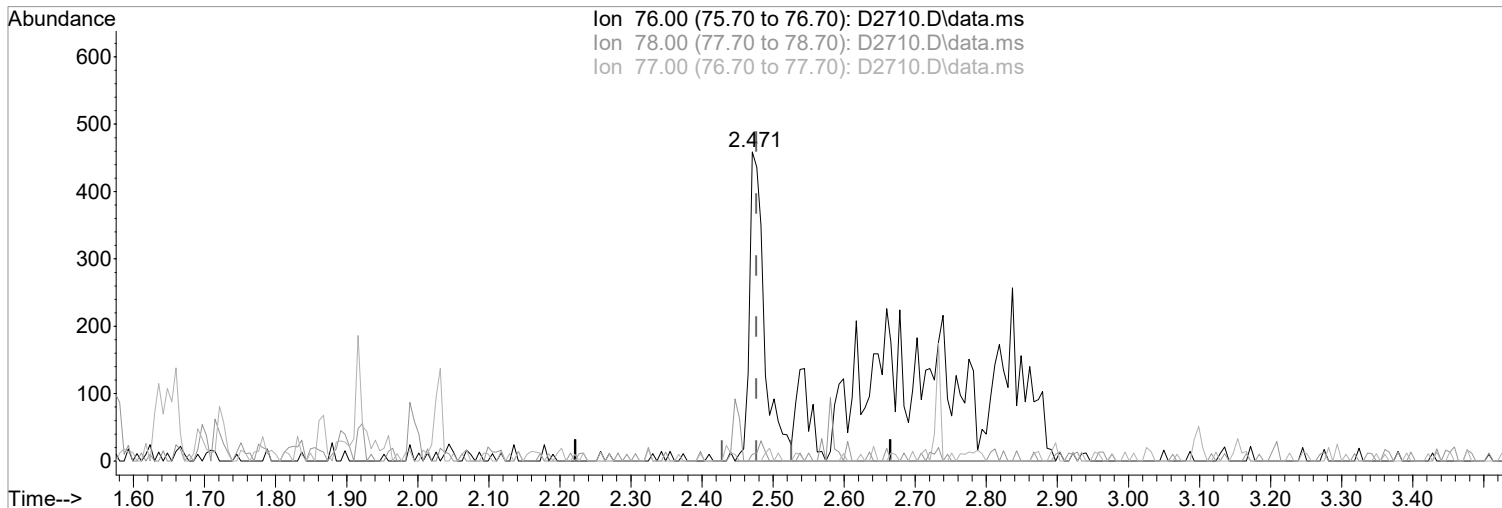
TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2710.D  
Acq On : 20 Apr 2018 4:22 pm  
Operator : D.LIPANI  
Sample : R1803412-008|1.0 Inst : MSVOA10  
Misc : DAY 12666 T4  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 20 16:37:06 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



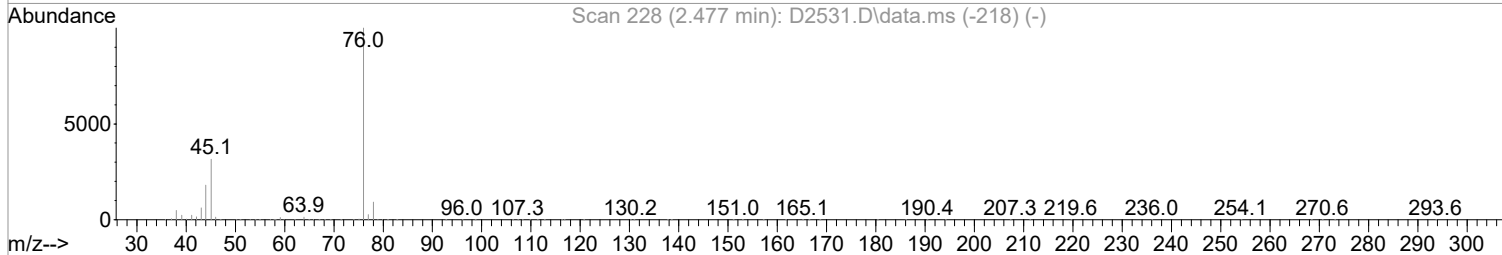
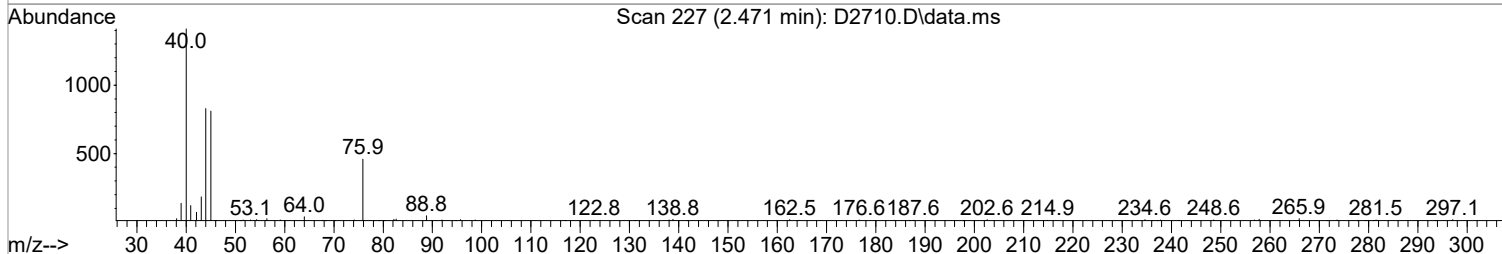
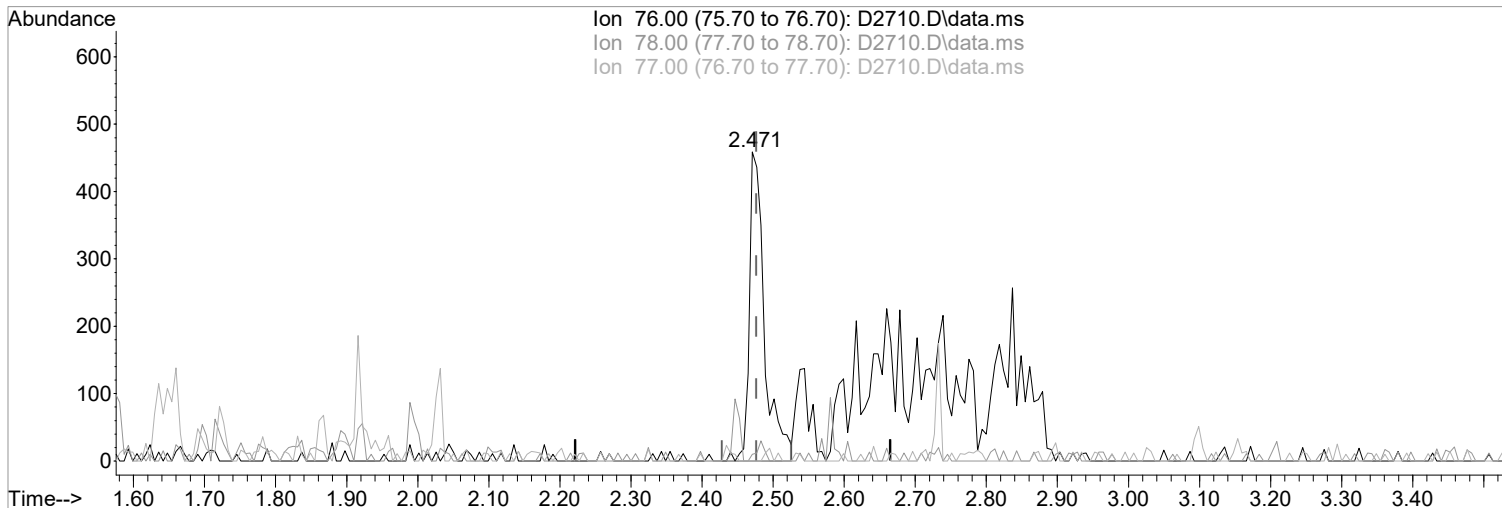
(18) Carbon Disulfide (P)  
2.471min (-0.006) 0.45 ug/L m  
response 3033

Manual Integration:  
After  
Poor integration.  
04/23/18

Ion	Exp%	Act%
76.00	100	100
78.00	9.30	2.18
77.00	2.70	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2710.D  
Acq On : 20 Apr 2018 4:22 pm  
Operator : D.LIPANI  
Sample : R1803412-008|1.0 Inst : MSVOA10  
Misc : DAY 12666 T4  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 20 16:37:06 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration



(18) Carbon Disulfide (P)

2.471min (-0.006) 0.10 ug/L

response 682

Ion	Exp%	Act%
76.00	100	100
78.00	9.30	2.18
77.00	2.70	0.00
0.00	0.00	0.00

Manual Integration:

Before

04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2710.D  
 Acq On : 20 Apr 2018 4:22 pm  
 Operator : D.LIPANI  
 Sample : R1803412-008|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 23 14:05:28 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	227350	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	352515	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	301253	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	154409	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.232	113	109237	48.86	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	97.72%	
46) surr1,1,2-dichloroetha...	5.775	65	157205	53.06	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	106.12%	
64) SURR3,Toluene-d8	8.311	98	445961	49.76	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.52%	
69) SURR2,BFB	10.878	95	171375	48.71	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	97.42%	
Target Compounds						
15) Acetone	2.324	43	4456	2.93	ug/L	92
16) 2-Propanol	2.465	45	2997	9.35	ug/L	100
18) Carbon Disulfide	2.471	76	3033m	0.45	ug/L	
23) TBA	2.873	59	913	1.91	ug/L	93
54) Methylcyclohexane	7.043	55	1025	0.29	ug/L #	74

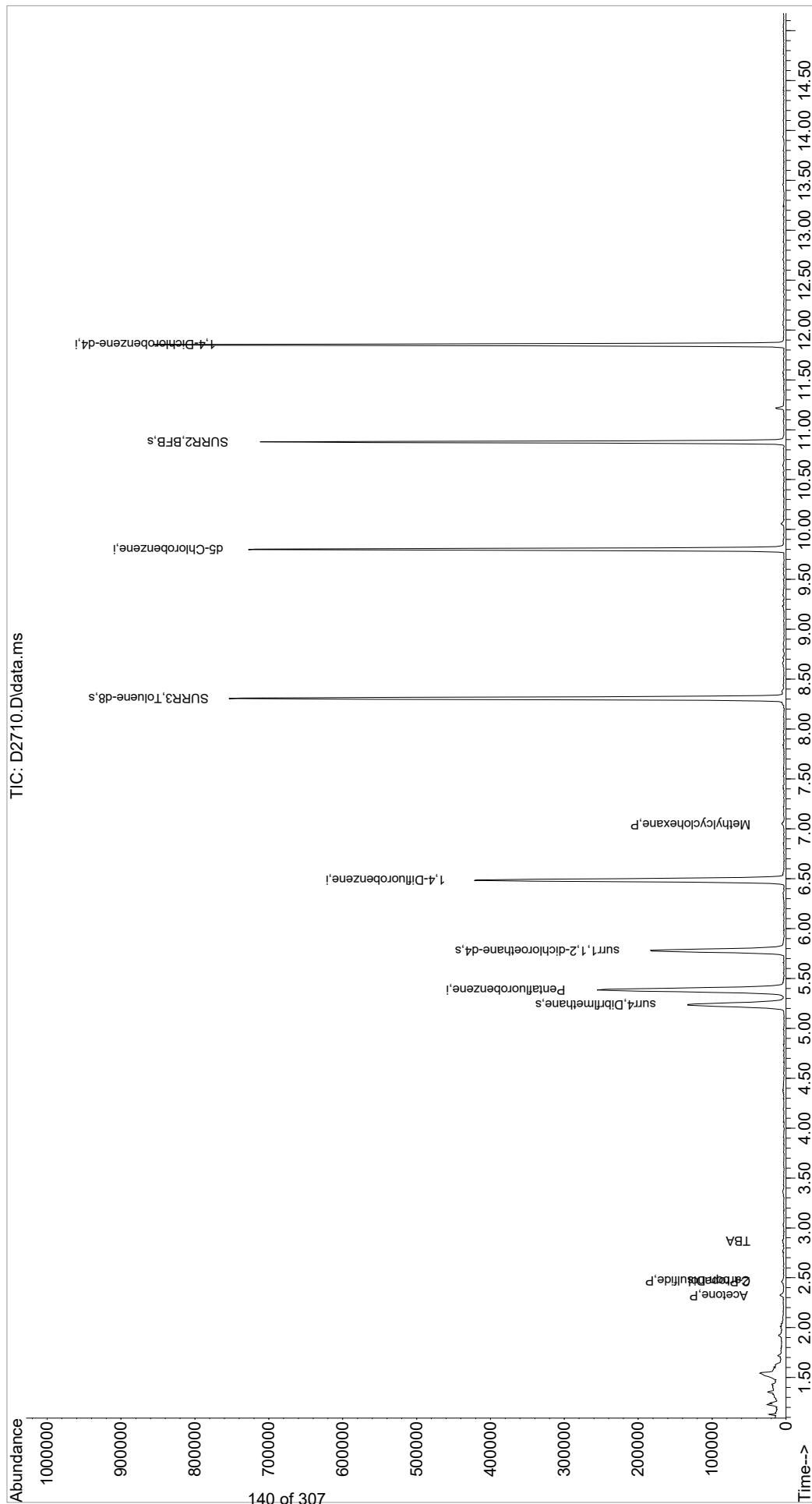
(#) = qualifier out of range (m) = manual integration (+) = signals summed

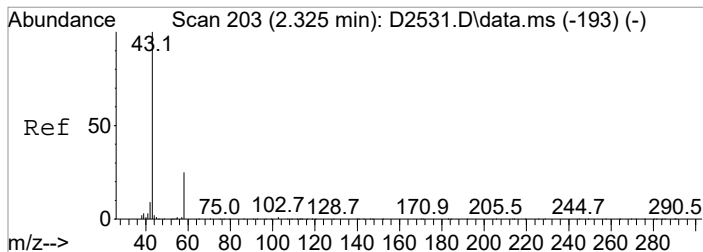
Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\042018\  
Data File : D2710.D  
Acq On : 20 Apr 2018 4:22 pm  
Operator : D.LIPANI  
Sample : R1803412-008|1.0  
Misc : DAY 12666 T4  
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA10

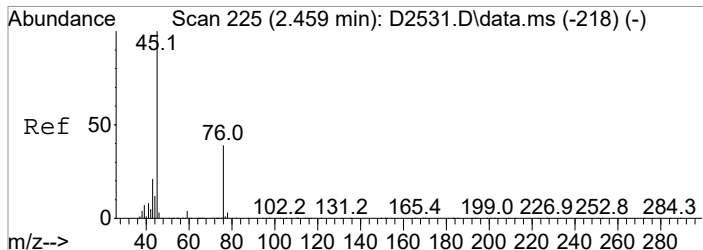
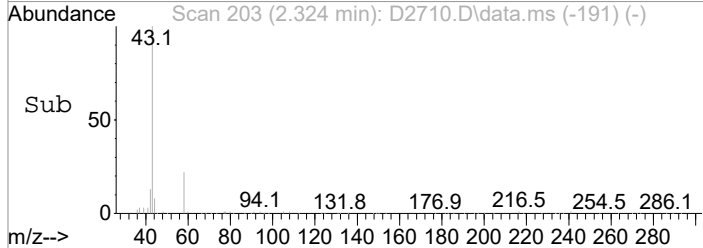
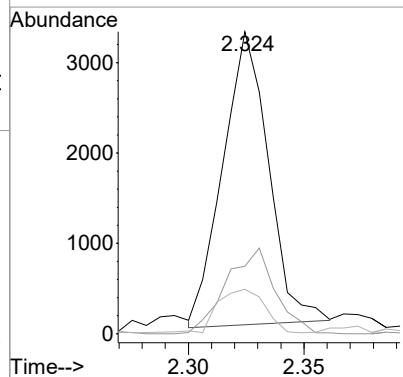
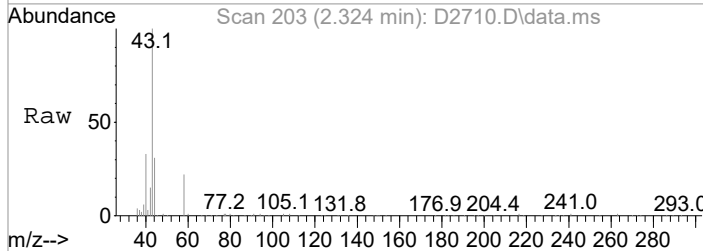
Quant Time: Apr 23 14:05:28 2018  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





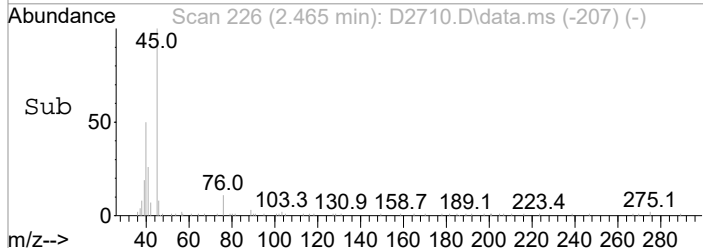
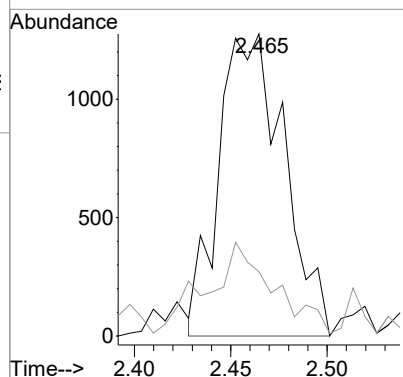
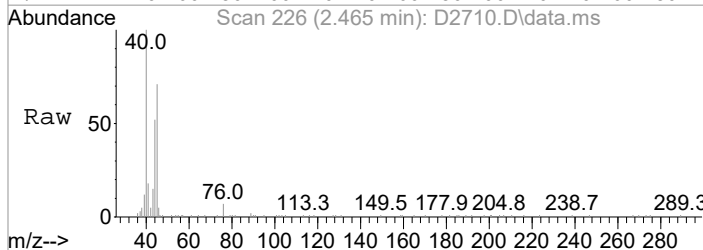
#15  
 Acetone  
 Concen: 2.93 ug/L  
 RT: 2.324 min Scan# 203  
 Delta R.T. 0.000 min  
 Lab File: D2710.D  
 Acq: 20 Apr 2018 4:22 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	22.4	5.2	45.2
42	14.7	0.0	29.2

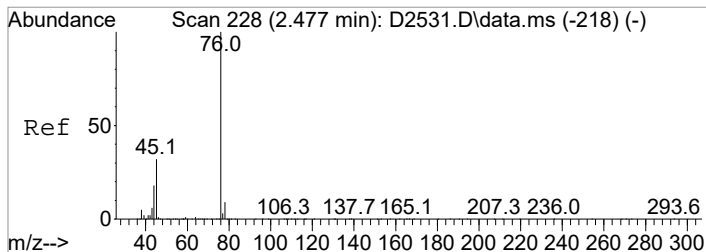


#16  
 2-Propanol  
 Concen: 9.35 ug/L  
 RT: 2.465 min Scan# 226  
 Delta R.T. 0.007 min  
 Lab File: D2710.D  
 Acq: 20 Apr 2018 4:22 pm

Tgt Ion	Resp	Lower	Upper
45	100		
43	21.3	1.3	41.3

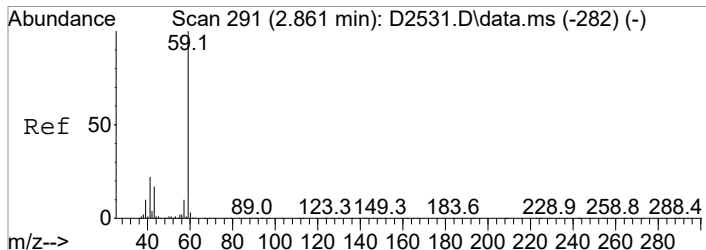
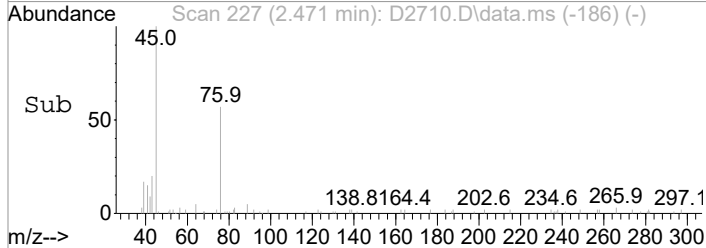
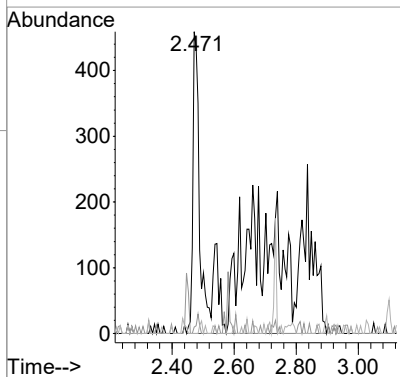
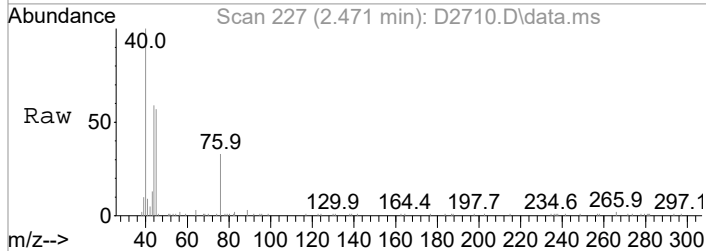






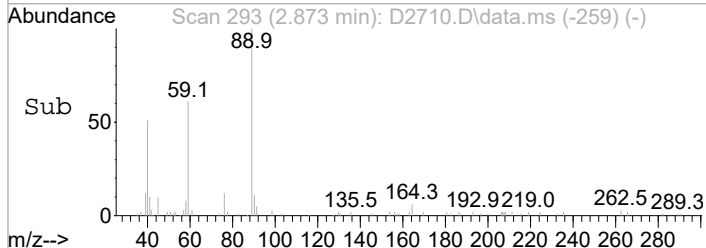
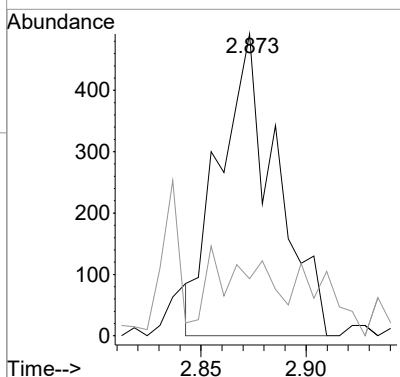
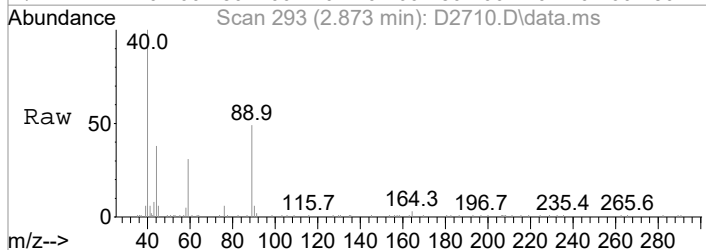
#18  
 Carbon Disulfide  
 Concen: 0.45 ug/L m  
 RT: 2.471 min Scan# 227  
 Delta R.T. -0.006 min  
 Lab File: D2710.D  
 Acq: 20 Apr 2018 4:22 pm

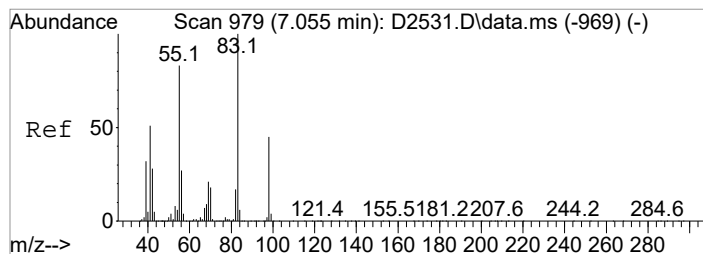
Tgt Ion	Resp	Lower	Upper
76	100		
78	2.2	0.0	29.3
77	0.0	0.0	22.7



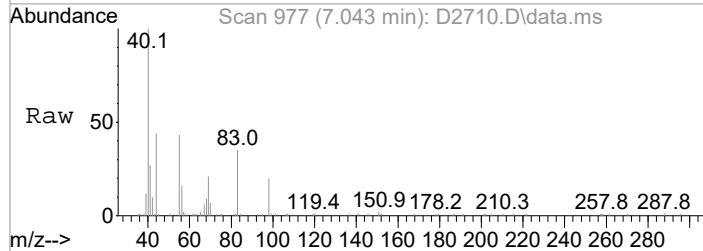
#23  
 TBA  
 Concen: 1.91 ug/L  
 RT: 2.873 min Scan# 293  
 Delta R.T. 0.019 min  
 Lab File: D2710.D  
 Acq: 20 Apr 2018 4:22 pm

Tgt Ion	Resp	Lower	Upper
59	100		
41	18.9	2.1	42.1

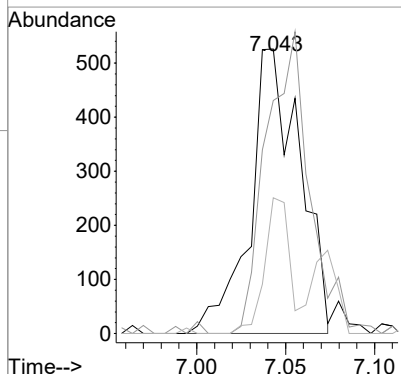
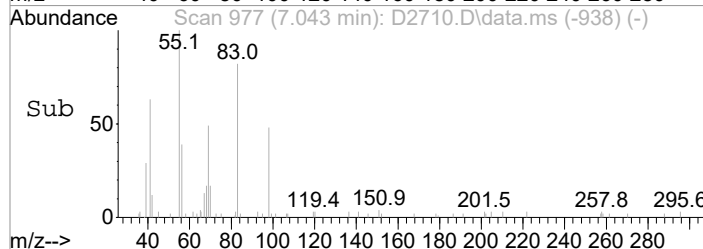




#54  
Methylcyclohexane  
Concen: 0.29 ug/L  
RT: 7.043 min Scan# 977  
Delta R.T. 0.000 min  
Lab File: D2710.D  
Acq: 20 Apr 2018 4:22 pm



Tgt Ion:	55	Resp:	1025
Ion Ratio	Lower	Upper	
55	100		
83	81.9	99.8	139.8#
98	47.7	34.3	74.3



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2710.D  
 Acq On : 20 Apr 2018 4:22 pm  
 Operator : D.LIPANI  
 Sample : R1803412-008|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 300 Area counts  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2710.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.227	19	23	25	rBV2	13395	16842	1.37%	0.255%
2	1.544	64	75	84	rBV7	21668	67565	5.48%	1.021%
3	5.239	669	681	692	rBV	130174	367478	29.80%	5.553%
4	5.385	693	705	717	rVV	252225	670705	54.40%	10.135%
5	5.781	758	770	780	rBV	180453	435529	35.32%	6.581%
6	6.482	877	885	896	rBV	419318	866796	70.30%	13.098%
7	8.305	1175	1184	1192	rBV	749206	1232942	100.00%	18.631%
8	9.799	1423	1429	1438	rBV	725213	1027896	83.37%	15.533%
9	10.878	1600	1606	1615	rBV	708888	869835	70.55%	13.144%
10	11.219	1657	1662	1667	rBV2	10490	13412	1.09%	0.203%
11	11.853	1760	1766	1776	rBV	854138	1048665	85.05%	15.846%

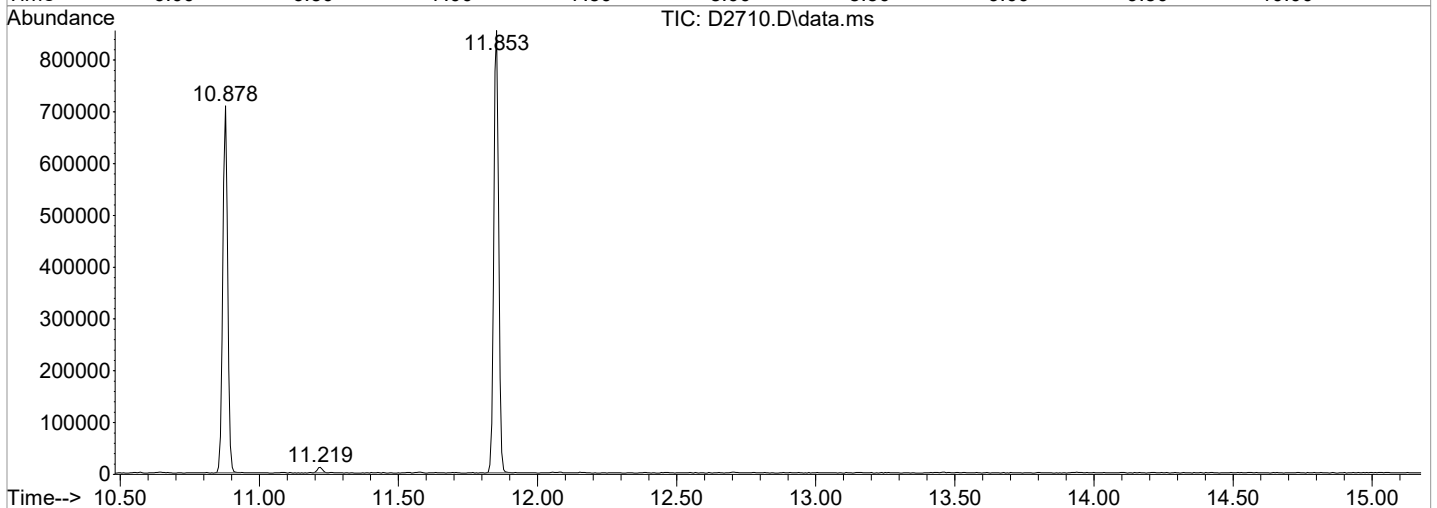
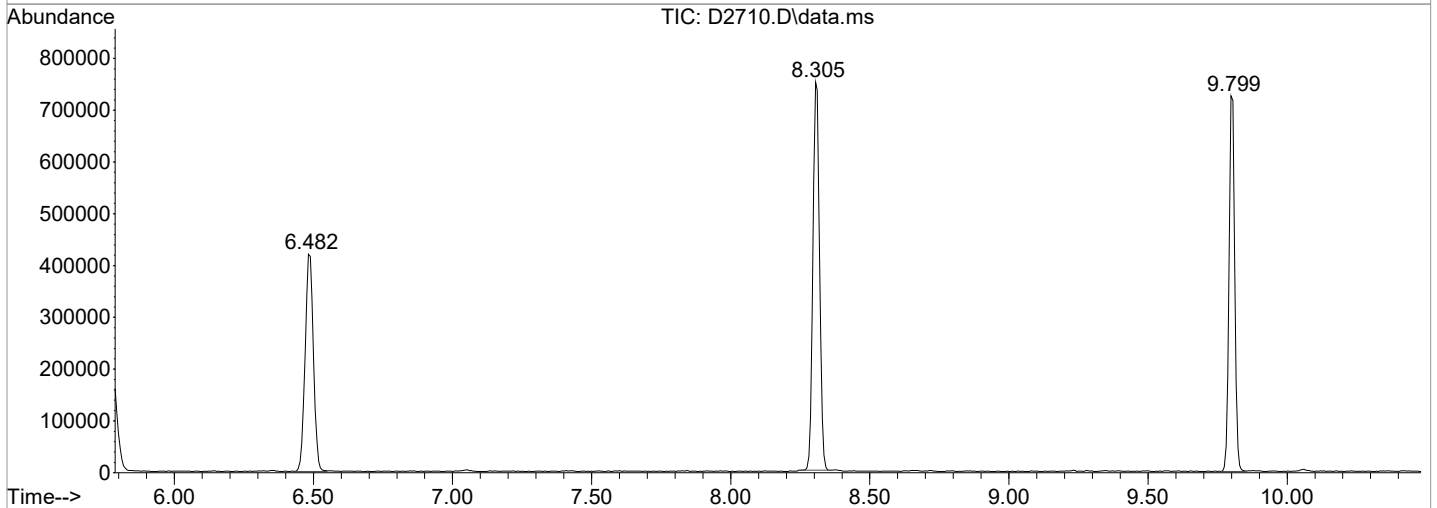
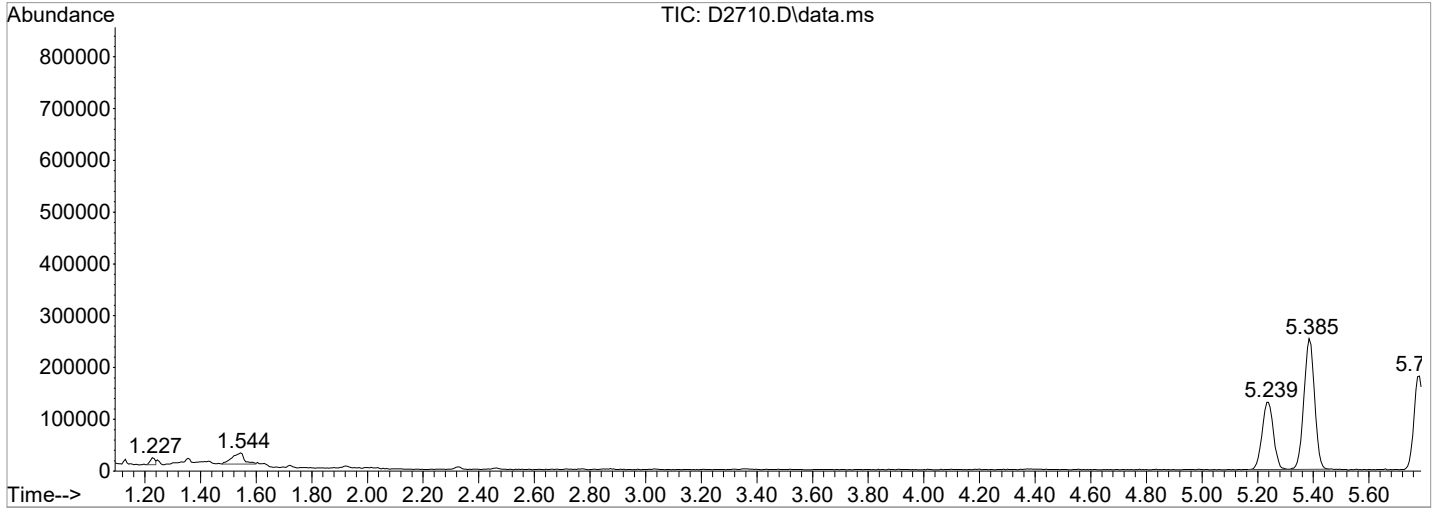
Sum of corrected areas: 6617665

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2710.D  
Acq On : 20 Apr 2018 4:22 pm  
Operator : D.LIPANI  
Sample : R1803412-008|1.0  
Misc : DAY 12666 T4  
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2710.D  
Acq On : 20 Apr 2018 4:22 pm  
Operator : D.LIPANI  
Sample : R1803412-008|1.0  
Misc : DAY 12666 T4  
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

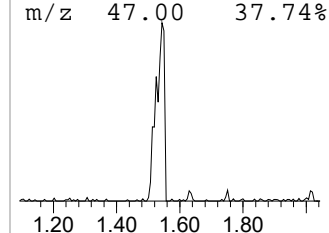
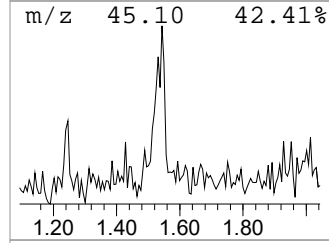
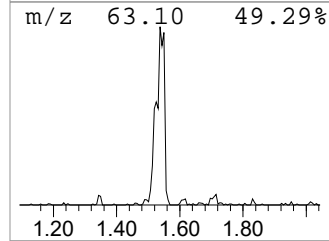
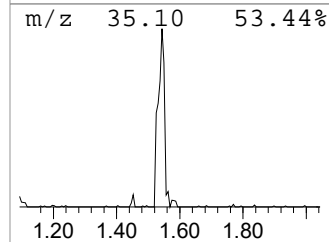
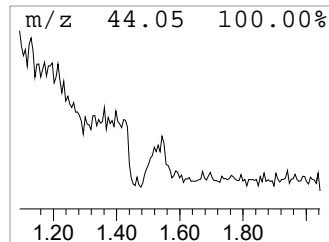
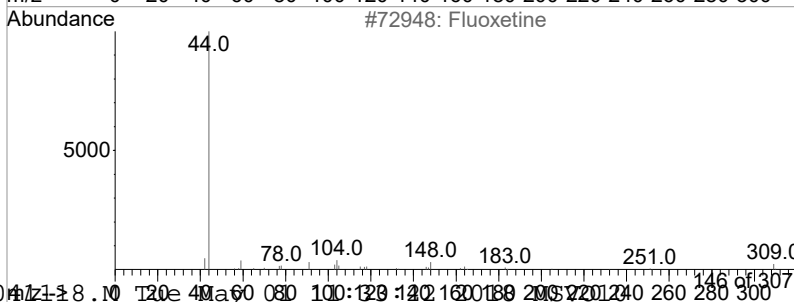
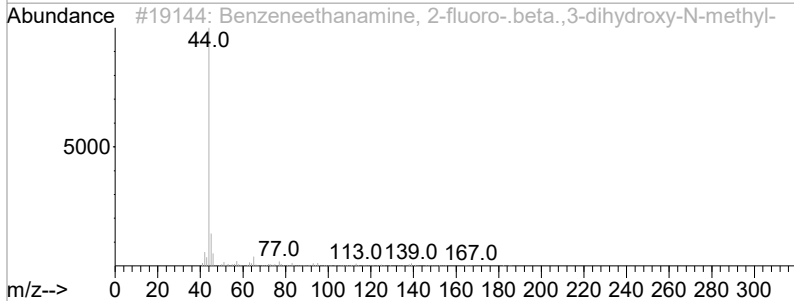
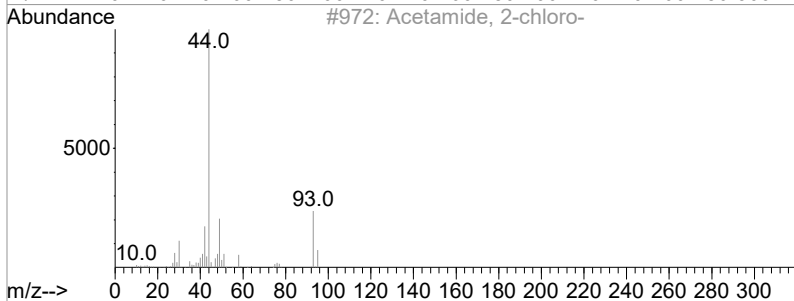
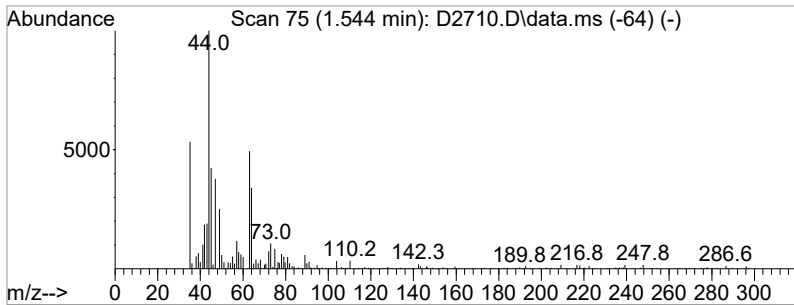
TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.544	5.04 ug/L	67565	Pentafluorobenzene	5.385

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Acetamide, 2-chloro-	93	C2H4ClNO	000079-07-2	10
2		Benzeneethanamine, 2-fluoro-.bet...	185	C9H12FNO2	000000-00-0	9
3		Fluoxetine	309	C17H18F3NO	054910-89-3	9
4		Propanoic acid, 2-chloro-	108	C3H5ClO2	000598-78-7	9
5		Benzeneethanamine, 2-fluoro-.bet...	185	C9H12FNO2	000000-00-0	9

unk



Tentatively Identified Compound (LSC) summary

1st DL 05/01/18  
 2nd RL 05/01/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2710.D  
 Acq On : 20 Apr 2018 4:22 pm  
 Operator : D.LIPANI  
 Sample : R1803412-008|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 21 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown	1.544	5.0	ug/L	67565	1	5.385	670705	50.0

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2702.D  
 Acq On : 20 Apr 2018 1:26 pm  
 Operator : D.LIPANI  
 Sample : R1803412-009|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 23 13:31:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	234462	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	359695	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.798	117	308435	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	159030	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	114425	50.16	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.32%	
46) surr1,1,2-dichloroetha...	5.781	65	159646	52.81	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	105.62%	
64) SURR3,Toluene-d8	8.305	98	455393	49.79	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.58%	
69) SURR2,BFB	10.877	95	176255	49.09	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	98.18%	
Target Compounds						
5) Bromomethane	1.593	94	339	Below Cal	Qvalue #	76
15) Acetone	2.318	43	4400	2.81 ug/L		99
16) 2-Propanol	2.458	45	11330	34.29 ug/L		87

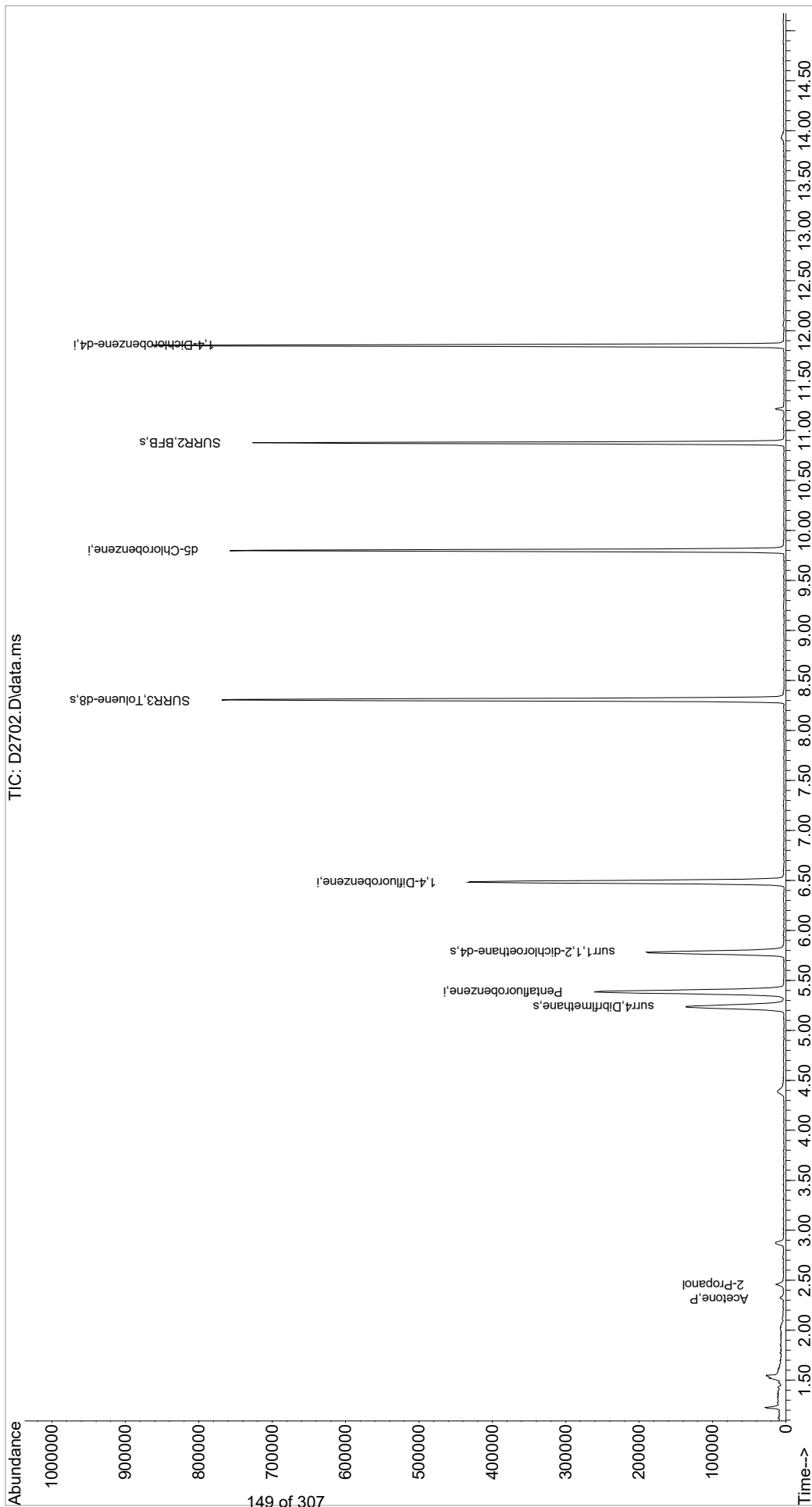
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

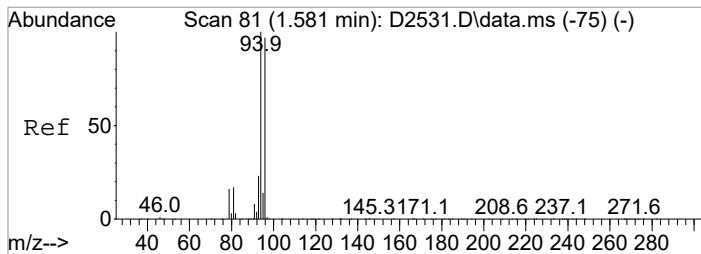
Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2702.D  
Acq On : 20 Apr 2018 1:26 pm  
Operator : D.LIPANI  
Sample : R1803412-009|1.0  
Misc : DAY 12666 T4  
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 23 13:31:01 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

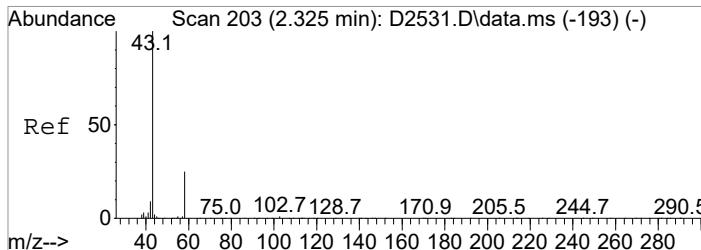
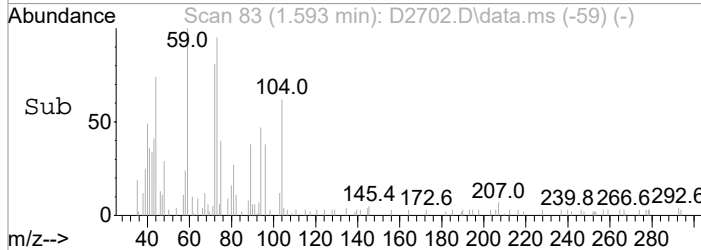
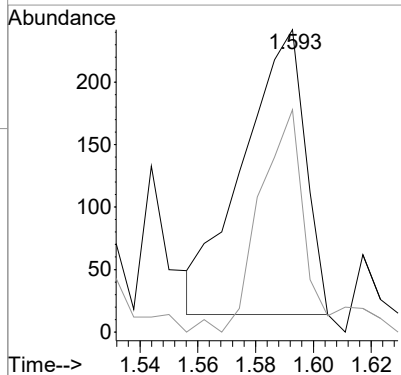
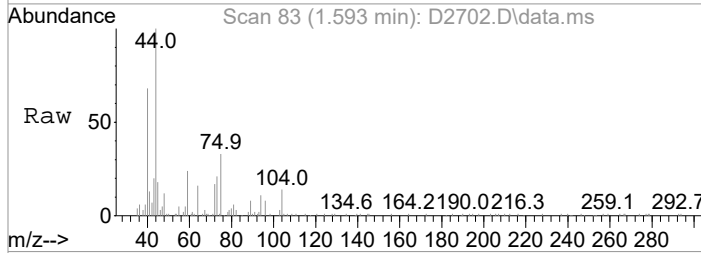






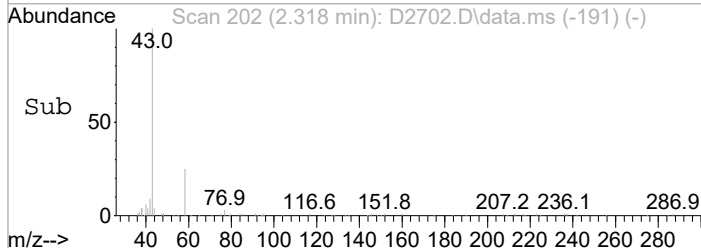
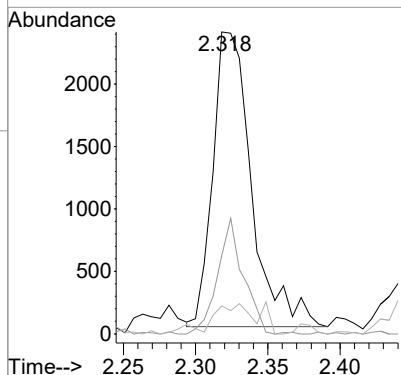
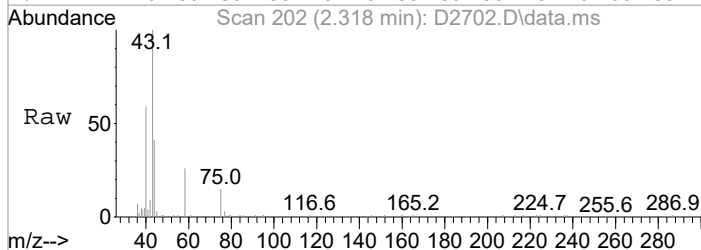
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.593 min Scan# 83  
 Delta R.T. 0.007 min  
 Lab File: D2702.D  
 Acq: 20 Apr 2018 1:26 pm

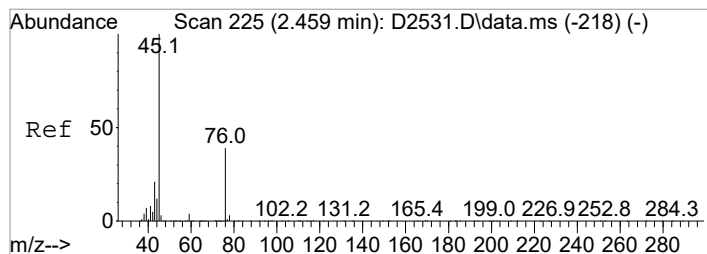
Tgt Ion	Resp	Lower	Upper
94	100		
96	73.6	77.7	117.7#



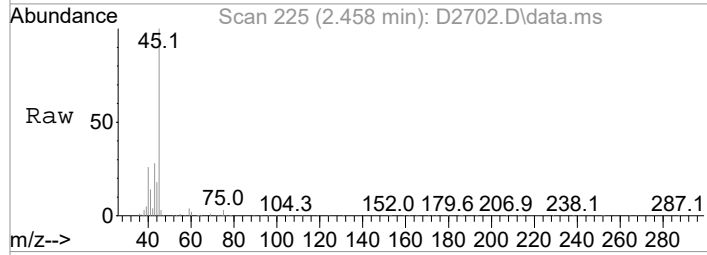
#15  
 Acetone  
 Concen: 2.81 ug/L  
 RT: 2.318 min Scan# 202  
 Delta R.T. -0.006 min  
 Lab File: D2702.D  
 Acq: 20 Apr 2018 1:26 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	25.9	5.2	45.2
42	9.2	0.0	29.2

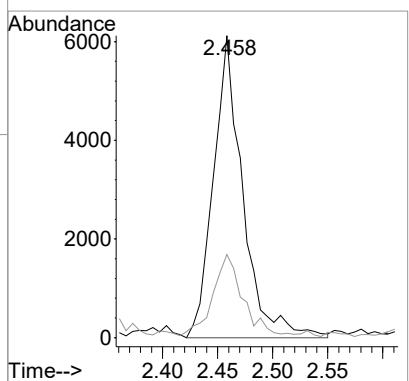
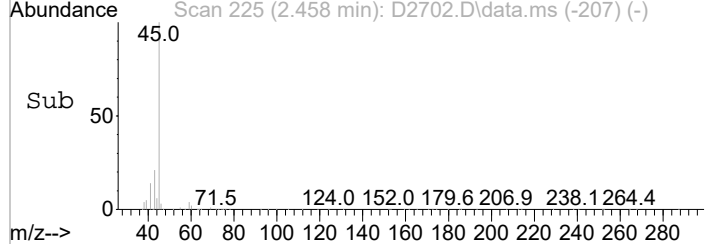




#16  
2-Propanol  
Concen: 34.29 ug/L  
RT: 2.458 min Scan# 225  
Delta R.T. 0.000 min  
Lab File: D2702.D  
Acq: 20 Apr 2018 1:26 pm



Tgt Ion: 45 Resp: 11330  
Ion Ratio Lower Upper  
45 100  
43 27.6 1.3 41.3



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2702.D  
 Acq On : 20 Apr 2018 1:26 pm  
 Operator : D.LIPANI  
 Sample : R1803412-009|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2702.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.227	19	23	27	rBV	19267	25724	2.03%	0.375%
2	1.550	66	76	78	rBV5	17676	42968	3.39%	0.626%
3	2.458	218	225	231	rBV	10399	19163	1.51%	0.279%
4	2.873	287	293	302	rVB3	10978	25490	2.01%	0.371%
5	4.391	532	542	553	rBV	8428	30491	2.41%	0.444%
6	5.238	667	681	693	rBV2	133677	382633	30.21%	5.574%
7	5.385	694	705	716	rVB	257365	683921	54.00%	9.964%
8	5.781	760	770	780	rBV	186893	445608	35.18%	6.492%
9	6.482	876	885	898	rBV	429950	891530	70.39%	12.988%
10	8.305	1177	1184	1194	rBV	766172	1266578	100.00%	18.452%
11	9.798	1423	1429	1439	rBV	754582	1062330	83.87%	15.477%
12	10.877	1598	1606	1613	rBV	724150	894517	70.62%	13.032%
13	11.219	1656	1662	1666	rBV2	11602	16333	1.29%	0.238%
14	11.853	1760	1766	1773	rBV	861211	1076825	85.02%	15.688%

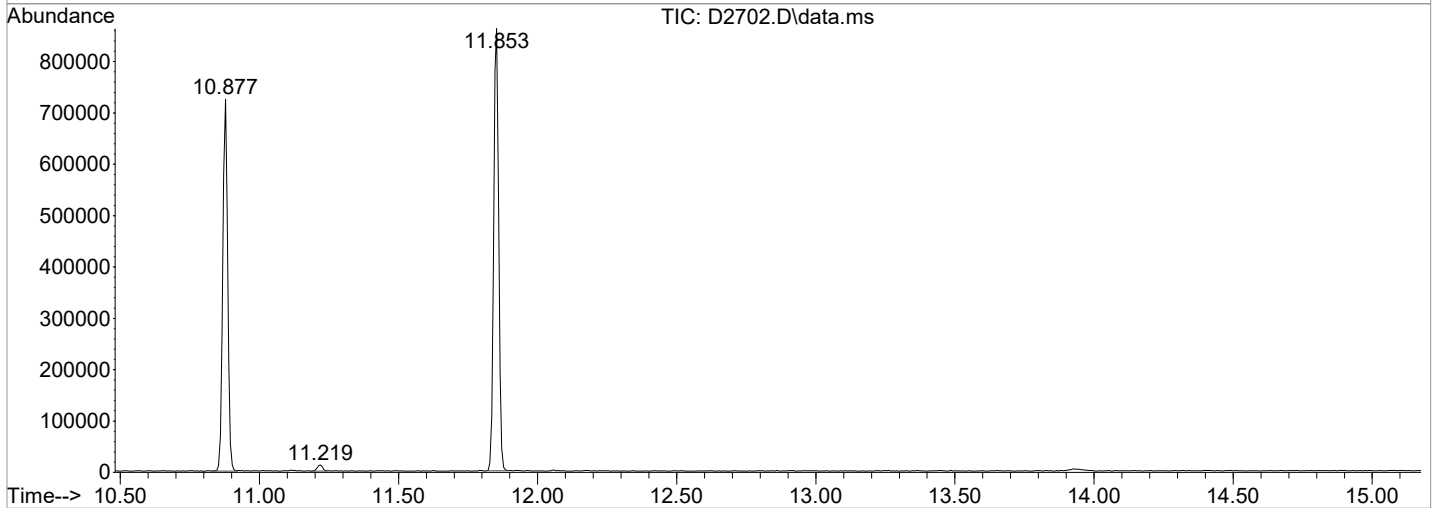
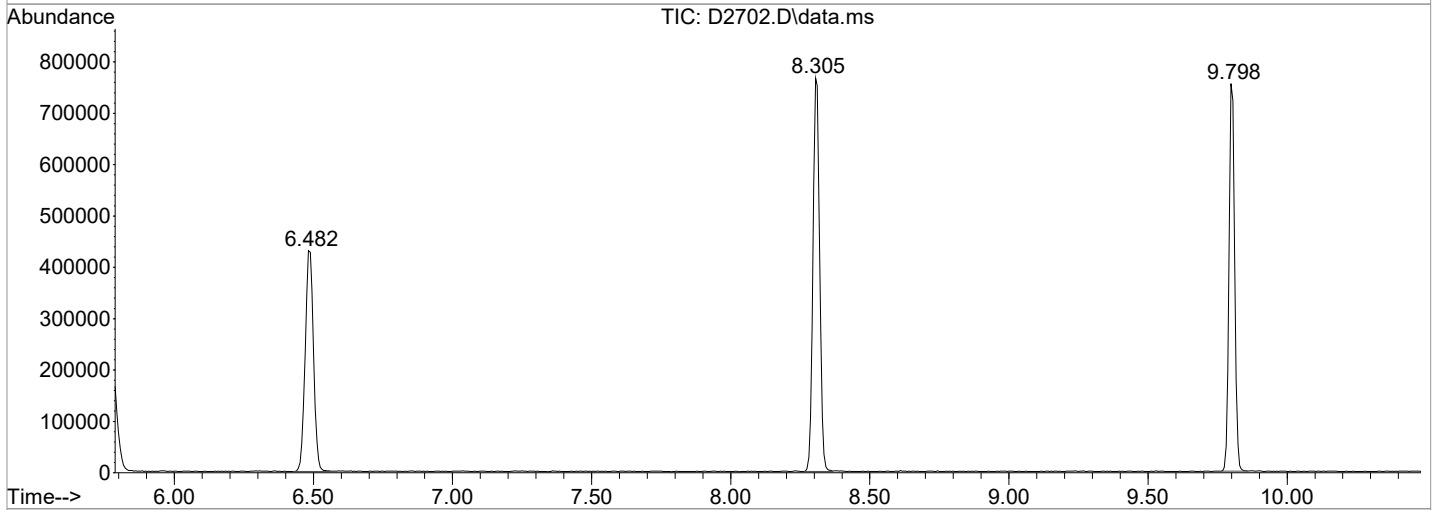
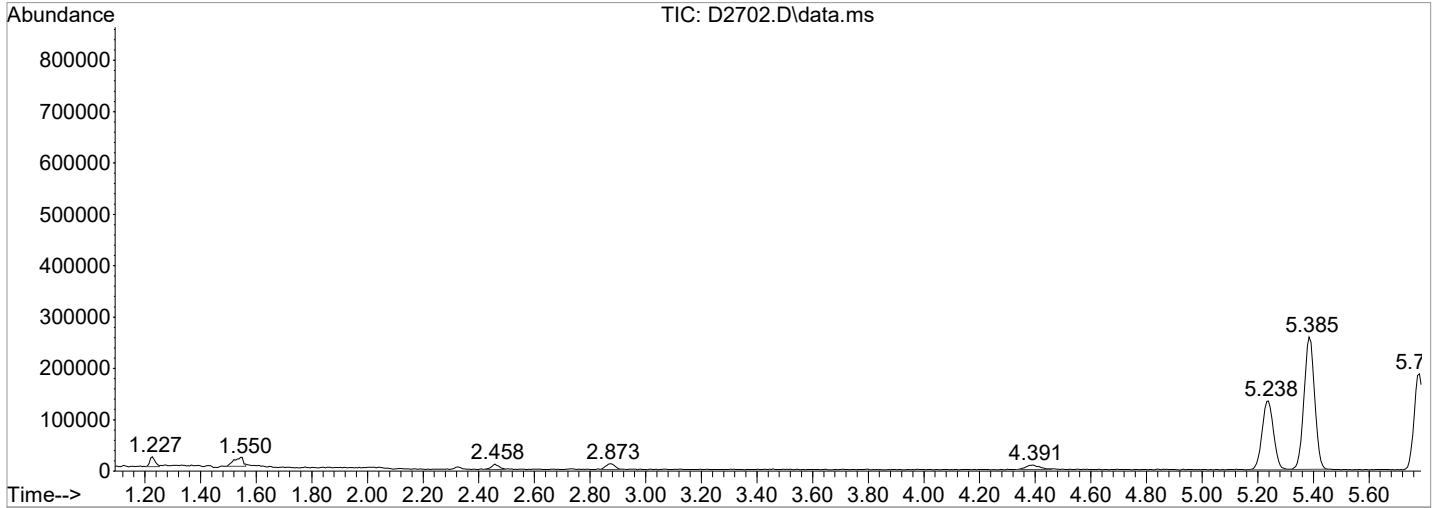
Sum of corrected areas: 6864111

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2702.D  
 Acq On : 20 Apr 2018 1:26 pm  
 Operator : D.LIPANI  
 Sample : R1803412-009|1.0  
 Misc : DAY 12666 T4  
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
 TIC Integration Parameters: LSCINT.P



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2702.D  
Acq On : 20 Apr 2018 1:26 pmm  
Operator : D.LIPANII  
Sample : R1803412-009|1.0 Inst : MSVOA100  
Misc : DAY 12666 T44  
ALS Vial : 13 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

\*\*\*\*\*

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2698.D  
 Acq On : 20 Apr 2018 11:59 am  
 Operator : D.LIPANI  
 Sample : MET BLK-WATER Inst : MSVOA10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P  
 Integrator: RTE  
 Smoothing : OFF Filtering: 5  
 Sampling : 1 Min Area: 1 % of largest Peak  
 Start Thrs: 0.2 Max Peaks: 100  
 Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Title : MS#10 - 8260B WATERS 5.0mL Purge

Signal : TIC: D2698.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.544	66	75	79	rBV5	18333	44950	3.49%	0.646%
2	5.239	668	681	692	rBV2	139439	389423	30.20%	5.593%
3	5.385	692	705	716	rVB	263208	711529	55.19%	10.219%
4	5.775	760	769	780	rBV	189943	455128	35.30%	6.537%
5	6.482	877	885	894	rBV	451785	914426	70.92%	13.133%
6	8.305	1176	1184	1192	rBV	798767	1289322	100.00%	18.517%
7	9.799	1423	1429	1440	rVB	780317	1091993	84.70%	15.683%
8	10.878	1600	1606	1617	rVB	731783	907871	70.41%	13.039%
9	11.219	1658	1662	1666	rVB3	11363	14565	1.13%	0.209%
10	11.853	1760	1766	1773	rBV	881276	1097188	85.10%	15.758%
11	13.261	1996	1997	2000	rVB	34757	18660	1.45%	0.268%
12	13.944	2095	2109	2118	rBV8	7081	27673	2.15%	0.397%

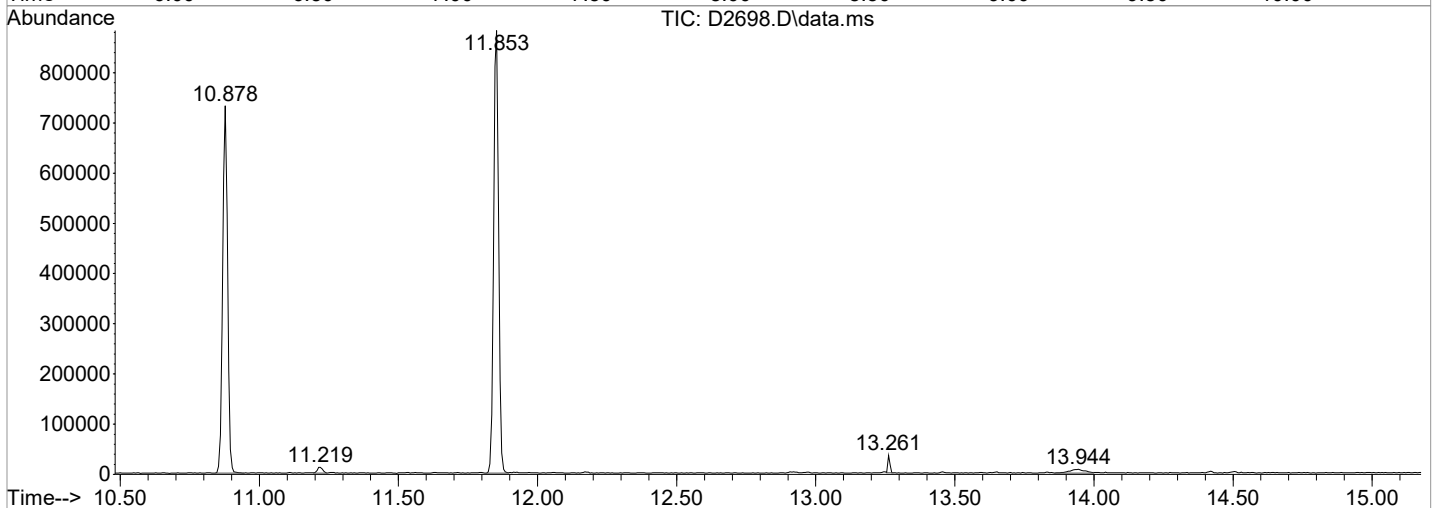
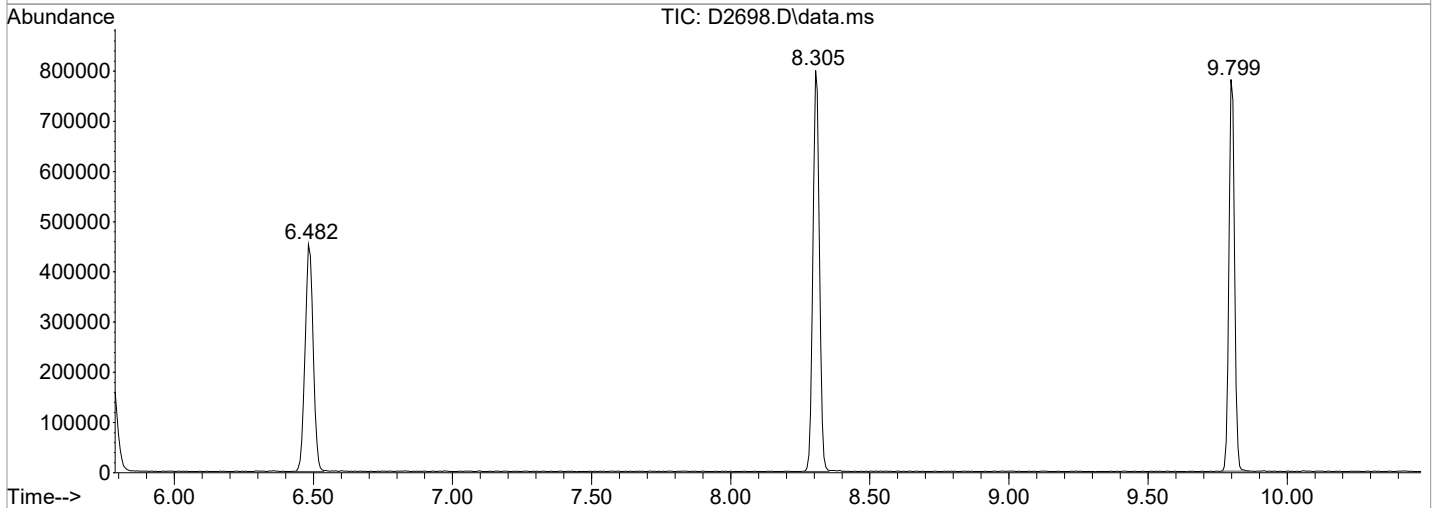
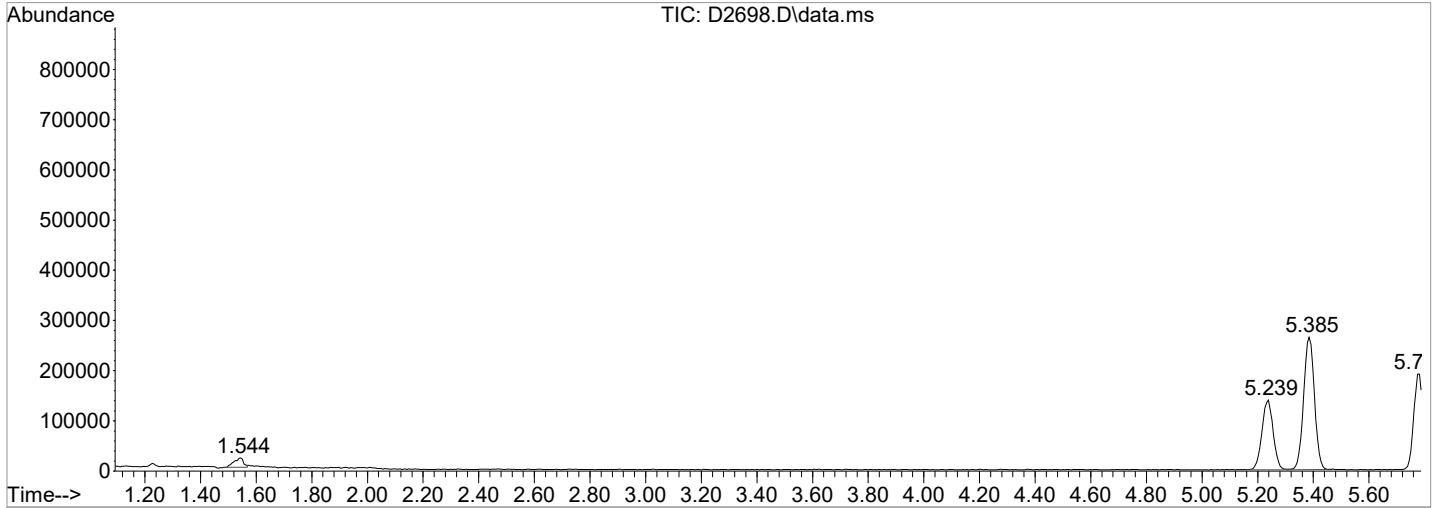
Sum of corrected areas: 6962728

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2698.D  
Acq On : 20 Apr 2018 11:59 am  
Operator : D.LIPANI  
Sample : MET BLK-WATER  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.L  
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

1st DL 04/23/18  
2nd BA 04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2698.D  
Acq On : 20 Apr 2018 11:59 am  
Operator : D.LIPANII  
Sample : MET BLK-WATER Inst : MSVOA100  
Misc :  
ALS Vial : 9 Sample Multiplier: 11

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.MM  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purgee

TIC Library : I:\ACQUDATA\DATABASE\NBS75K.LL  
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

No Library Search Compounds Detected

\*\*\*\*\*



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2698.D  
 Acq On : 20 Apr 2018 11:59 am  
 Operator : D.LIPANI  
 Sample : MET BLK-WATER Inst : MSVOA10  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 23 11:04:52 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	242552	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	369660	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	318754	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	166248	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.232	113	115348	49.20	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.40%	
46) surr1,1,2-dichloroetha...	5.775	65	160838	51.77	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	103.54%	
64) SURR3,Toluene-d8	8.305	98	463441	49.31	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	98.62%	
69) SURR2,BFB	10.878	95	178466	48.37	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	96.74%	
Target Compounds						
5) Bromomethane	1.587	94	354	Below Cal	Qvalue #	40
15) Acetone	2.337	43	626	0.39 ug/L		91

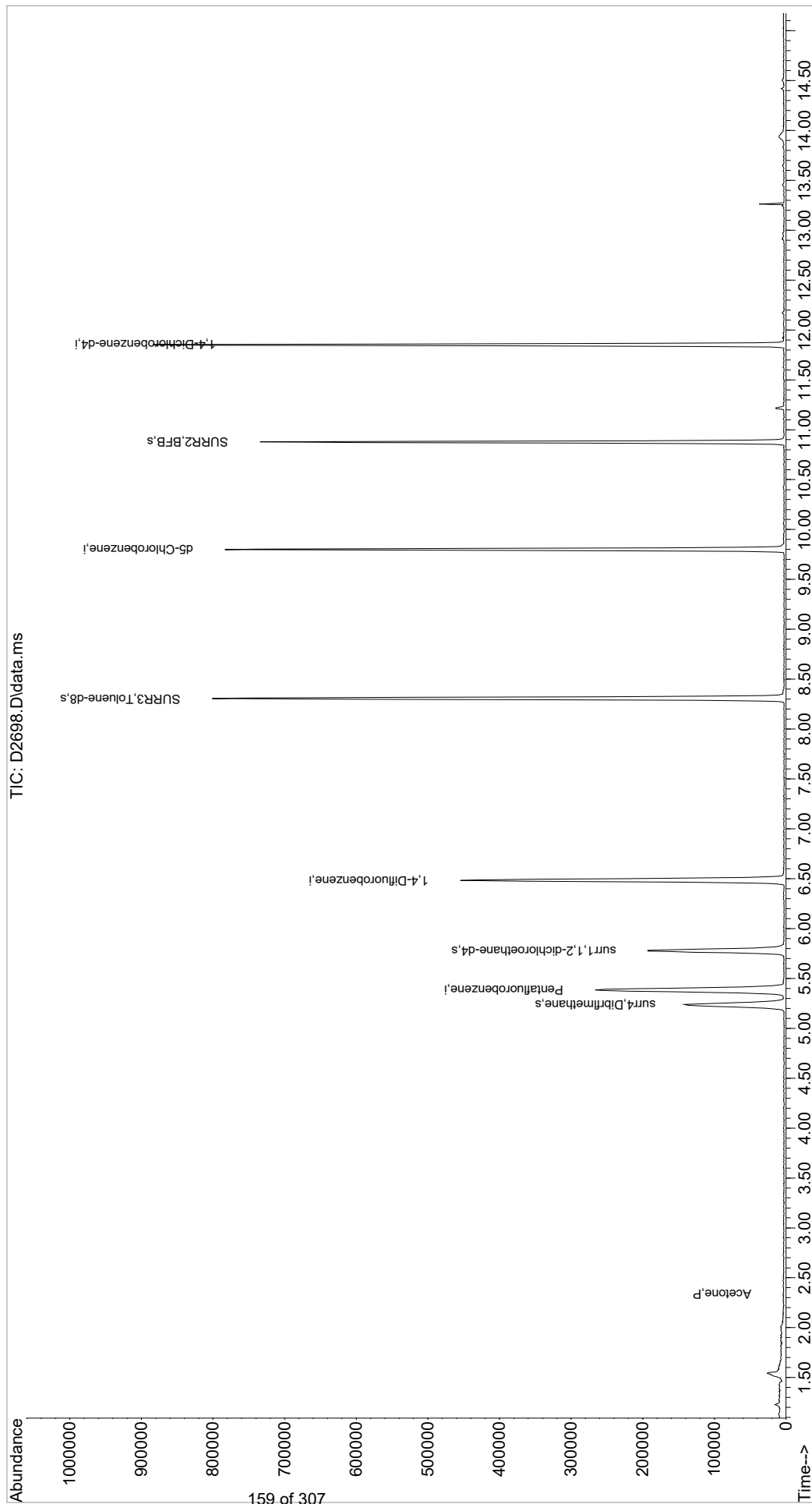
(#) = qualifier out of range (m) = manual integration (+) = signals summed

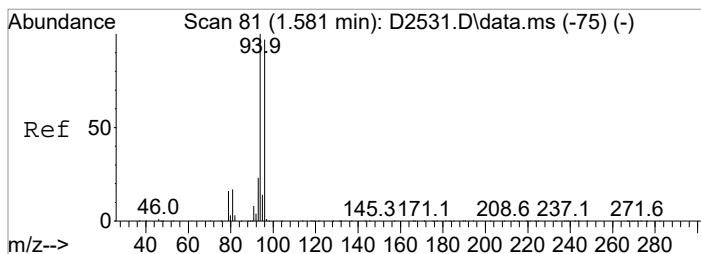
Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2698.D  
Acq On : 20 Apr 2018 11:59 am  
Operator : D.LIPANI  
Sample : MET BLK-WATER  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA10

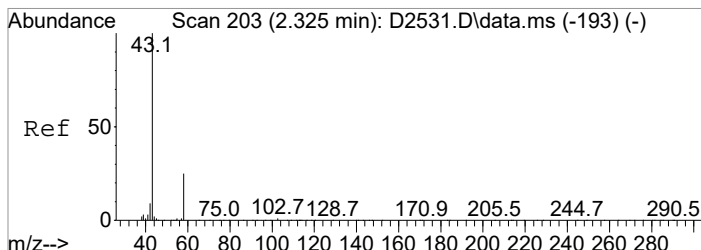
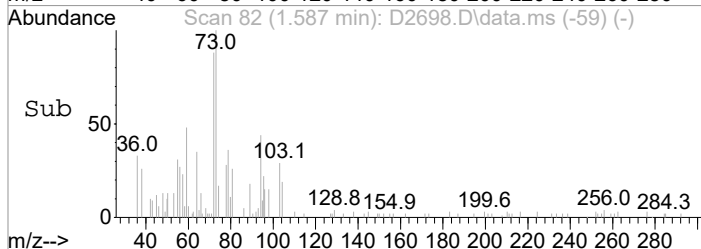
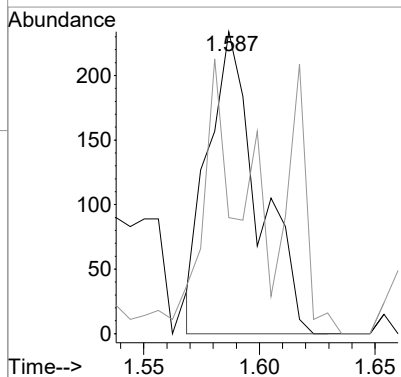
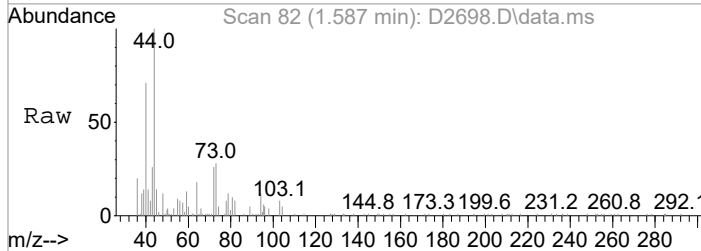
Quant Time: Apr 23 11:04:52 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration





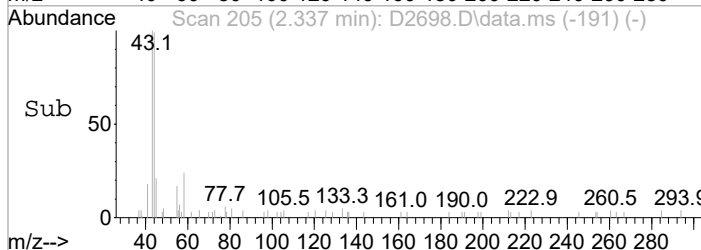
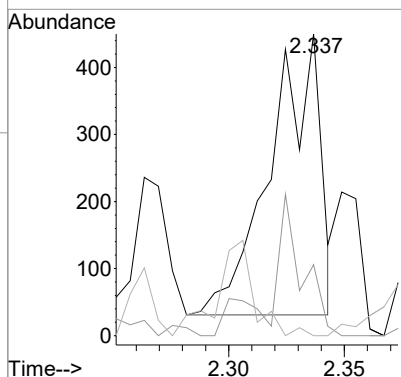
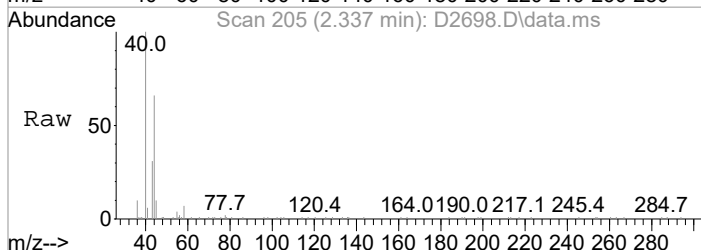
#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 1.587 min Scan# 82  
 Delta R.T. 0.001 min  
 Lab File: D2698.D  
 Acq: 20 Apr 2018 11:59 am

Tgt Ion	Resp	Lower	Upper
94	100		
96	38.5	77.7	117.7#



#15  
 Acetone  
 Concen: 0.39 ug/L  
 RT: 2.337 min Scan# 205  
 Delta R.T. 0.012 min  
 Lab File: D2698.D  
 Acq: 20 Apr 2018 11:59 am

Tgt Ion	Resp	Lower	Upper
43	100		
58	23.6	5.2	45.2
42	0.0	0.0	29.2



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2695.D  
 Acq On : 20 Apr 2018 10:49 am  
 Operator : D.LIPANI  
 Sample : LCS Inst : MSVOA10  
 Misc : Preserved  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 20 11:03:56 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.385	168	266288	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	394147	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	345350	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	182609	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.239	113	124476	49.80	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.60%		
46) surr1,1,2-dichloroetha...	5.775	65	174257	52.61	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	105.22%		
64) SURR3,Toluene-d8	8.305	98	493376	49.23	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.46%		
69) SURR2,BFB	10.878	95	192939	49.04	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.08%		
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.148	85	97532	23.81	ug/L	97
3) Chloromethane	1.282	50	94661	19.87	ug/L	97
4) Vinyl Chloride	1.355	62	85876	19.29	ug/L	98
5) Bromomethane	1.581	94	47732	14.67	ug/L	98
6) Chloroethane	1.660	64	40193	15.63	ug/L	97
7) Freon 21	1.812	67	103948	15.78	ug/L	100
8) Trichlorofluoromethane	1.861	101	91620	19.48	ug/L	98
9) Diethyl Ether	2.087	59	58124	20.15	ug/L	96
10) Freon 123a	2.093	67	67443	17.57	ug/L	92
11) Freon 123	2.148	83	91324	23.04	ug/L	95
12) Acrolein	2.190	56	27602	35.08	ug/L	88
13) 1,1-Dicethene	2.282	96	50210	18.67	ug/L	92
14) Freon 113	2.288	101	50055	17.70	ug/L	94
15) Acetone	2.324	43	30858	17.34	ug/L	95
16) 2-Propanol	2.459	45	140750	375.09	ug/L	96
17) Iodomethane	2.416	142	51333	17.23	ug/L	99
18) Carbon Disulfide	2.471	76	151564	19.00	ug/L	99
19) Acetonitrile	2.574	41	72980	123.15	ug/L	99
20) Allyl Chloride	2.611	76	30967	19.50	ug/L	96
21) Methyl Acetate	2.635	43	68326	19.72	ug/L	100
22) Methylene Chloride	2.733	84	58591	19.01	ug/L	98
23) TBA	2.861	59	216560	385.85	ug/L	96
24) Acrylonitrile	2.983	53	169754	104.42	ug/L	94
25) Methyl-t-Butyl Ether	3.032	73	195426	19.94	ug/L	97
26) trans-1,2-Dichloroethene	3.026	96	53767	18.66	ug/L	98
27) 1,1-Dicethane	3.525	63	114382	20.83	ug/L	98
28) Vinyl Acetate	3.611	86	14404	20.46	ug/L	# 91
29) DIPE	3.647	45	234887	21.15	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.647	53	103791	20.19	ug/L	87
31) ETBE	4.178	59	204328	20.23	ug/L	99
32) 2,2-Dichloropropane	4.355	77	90188	18.60	ug/L	97
33) cis-1,2-Dichloroethene	4.367	96	59790	18.92	ug/L	98
34) 2-Butanone	4.409	43	43619	19.37	ug/L	93
35) Propionitrile	4.495	54	68583	102.29	ug/L	95
36) Bromochloromethane	4.757	130	35481	19.17	ug/L	94
37) Methacrylonitrile	4.763	67	32093	19.76	ug/L	93
38) Tetrahydrofuran	4.854	42	29865	21.61	ug/L	92
39) Chloroform	4.940	83	100625	20.44	ug/L	98
40) 1,1,1-Trichloroethane	5.239	97	84288	18.73	ug/L	94

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2695.D  
Acq On : 20 Apr 2018 10:49 am  
Operator : D.LIPANI  
Sample : LCS  
Misc : Preserved  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 11:03:56 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	60174	18.59	ug/L	93
44) Carbontetrachloride	5.531	117	70197	19.22	ug/L	96
45) 1,1-Dichloropropene	5.537	75	79178	19.45	ug/L	99
47) Benzene	5.854	78	225647	20.52	ug/L	98
48) 1,2-Dichloroethane	5.897	62	91972	21.38	ug/L	96
49) Iso-Butyl Alcohol	5.879	43	90393	372.33	ug/L	97
50) TAME	6.098	73	184657	20.61	ug/L	98
51) n-Heptane	6.348	43	88990	20.31	ug/L	91
52) 1-Butanol	6.848	56	126163	897.89	ug/L	93
53) Trichloroethene	6.811	130	56093	19.55	ug/L	97
54) Methylcyclohexane	7.049	55	72596	18.19	ug/L	96
55) 1,2-Diclpropane	7.098	63	63661	21.28	ug/L	95
56) Dibromomethane	7.238	93	36178	19.72	ug/L	95
57) 1,4-Dioxane	7.299	88	21839	397.11	ug/L	88
58) Methyl Methacrylate	7.324	69	50702	19.79	ug/L	89
59) Bromodichloromethane	7.464	83	73164	19.91	ug/L	98
60) 2-Nitropropane	7.750	41	45586	34.87	ug/L	96
61) 2-Chloroethylvinyl Ether	7.872	63	1106	0.68	ug/L	63
62) cis-1,3-Dichloropropene	8.012	75	98134	20.04	ug/L	97
63) 4-Methyl-2-pentanone	8.220	43	84019	21.17	ug/L	99
65) Toluene	8.384	91	237004	19.49	ug/L	99
66) trans-1,3-Dichloropropene	8.653	75	87891	19.41	ug/L	97
67) Ethyl Methacrylate	8.793	69	91136	20.82	ug/L	93
68) 1,1,2-Trichloroethane	8.841	97	51598	20.41	ug/L	97
71) Tetrachloroethene	8.976	164	41849	19.37	ug/L	98
72) 2-Hexanone	9.134	43	60530	19.73	ug/L	94
73) 1,3-Dichloropropane	9.006	76	97053	20.46	ug/L	91
74) Dibromochloromethane	9.238	129	52942	19.71	ug/L	97
75) N-Butyl Acetate	9.287	43	129584	19.16	ug/L	99
76) 1,2-Dibromoethane	9.335	107	53335	19.29	ug/L	90
77) 3-Chlorobenzotrifluoride	9.847	180	83452	19.74	ug/L	98
78) Chlorobenzene	9.829	112	146652	19.23	ug/L	96
79) 4-Chlorobenzotrifluoride	9.902	180	73419	19.71	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.914	131	53427	19.69	ug/L	95
81) Ethylbenzene	9.945	106	77711	19.39	ug/L	96
82) (m+p)Xylene	10.061	106	193536	38.44	ug/L	98
83) o-Xylene	10.420	106	97830	19.44	ug/L	97
84) Styrene	10.433	104	162836	19.43	ug/L	99
85) Bromoform	10.585	173	36788	19.07	ug/L	98
86) 2-Chlorobenzotrifluoride	10.664	180	79435	19.58	ug/L	94
87) Isopropylbenzene	10.756	105	248468	19.13	ug/L	98
88) Cyclohexanone	10.817	55	70668	72.65	ug/L	99
89) trans-1,4-Dichloro-2-B...	11.061	53	25770	20.85	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.012	83	76508	20.35	ug/L	98
92) Bromobenzene	11.000	156	62236	19.66	ug/L	99
93) 1,2,3-Trichloropropane	11.042	110	22479	18.57	ug/L #	73
94) n-Propylbenzene	11.109	91	301199	19.92	ug/L	99
95) 2-Chlorotoluene	11.170	91	178270	19.71	ug/L	99
96) 3-Chlorotoluene	11.225	91	180769	20.48	ug/L	98
97) 4-Chlorotoluene	11.268	91	207029	19.03	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	209223	19.68	ug/L	99
99) tert-Butylbenzene	11.536	119	173797	19.27	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	209175	20.06	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	64221	19.76	ug/L	91
102) sec-Butylbenzene	11.719	105	266100	19.79	ug/L	100
103) p-Isopropyltoluene	11.841	119	219398	19.62	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2695.D  
 Acq On : 20 Apr 2018 10:49 am  
 Operator : D.LIPANI  
 Sample : LCS Inst : MSVOA10  
 Misc : Preserved  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 20 11:03:56 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

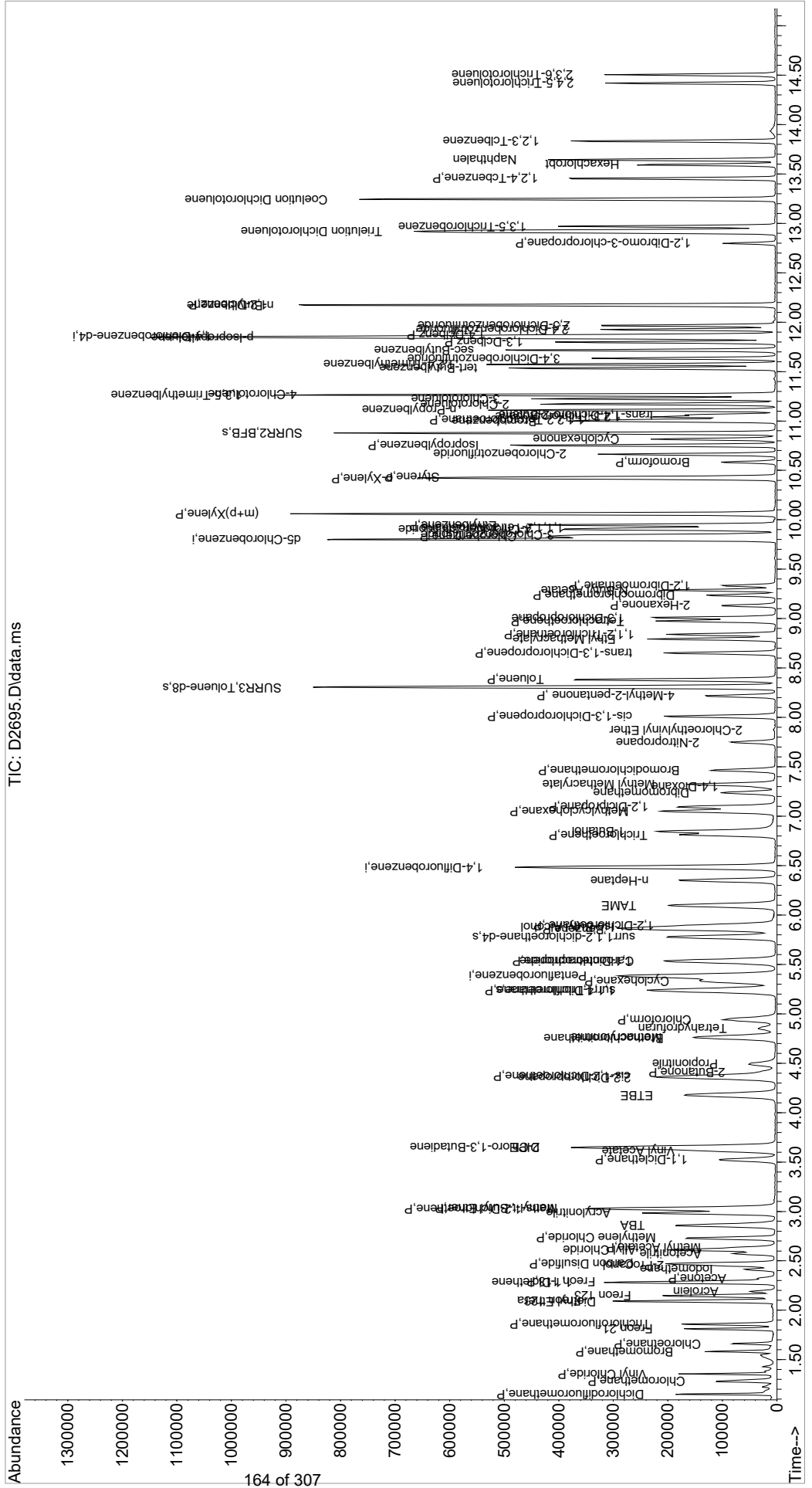
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	116787	19.66	ug/L	98
105) 1,4-Dclbenz	11.871	146	119712	19.22	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	58889	19.69	ug/L	91
107) 2,5-Dichlorobenzotrifl...	11.969	214	67298	20.30	ug/L	97
108) n-Butylbenzene	12.170	91	212448	19.54	ug/L	100
109) 1,2-Dclbenz	12.176	146	115239	19.77	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.798	157	16335	18.71	ug/L	87
111) Trielution Dichlorotol...	12.920	125	316389	59.91	ug/L	96
112) 1,3,5-Trichlorobenzene	12.969	180	88036	19.60	ug/L	96
113) Coelution Dichlorotoluene	13.243	125	227919	40.06	ug/L	98
114) 1,2,4-Tcbenzene	13.456	180	90488	20.87	ug/L	95
115) Hexachlorobt	13.597	225	36102	17.68	ug/L	95
116) Naphthalen	13.645	128	236694	20.87	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	86342	20.30	ug/L	95
118) 2,4,5-Trichlorotoluene	14.420	159	58519	20.94	ug/L	96
119) 2,3,6-Trichlorotoluene	14.505	159	54650	20.84	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\042018\  
 Data File : D2695.D  
 Acq On : 20 Apr 2018 10:49 am  
 Operator : D.LIPANI  
 Sample : LCS  
 Misc : Preserved  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 11:03:56 2018  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration





Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2722.D  
 Acq On : 20 Apr 2018 8:43 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001MS|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 23 14:43:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.385	168	234581	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	358848	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	306749	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	172644	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.238	113	113258	49.77	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.54%		
46) surr1,1,2-dichloroetha...	5.781	65	156486	51.89	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	103.78%		
64) SURR3,Toluene-d8	8.311	98	448098	49.11	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.22%		
69) SURR2,BFB	10.878	95	173475	48.43	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	96.86%		
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.148	85	224543	62.21	ug/L	98
3) Chloromethane	1.282	50	221483	52.78	ug/L	98
4) Vinyl Chloride	1.355	62	205757	52.47	ug/L	98
5) Bromomethane	1.581	94	101181	37.83	ug/L	98
6) Chloroethane	1.660	64	99739	44.04	ug/L	99
7) Freon 21	1.812	67	265231	45.72	ug/L	99
8) Trichlorofluoromethane	1.855	101	215304	51.96	ug/L	93
9) Diethyl Ether	2.093	59	131593	51.79	ug/L	94
10) Freon 123a	2.093	67	167818	49.64	ug/L	91
11) Freon 123	2.148	83	230047	65.89	ug/L	97
12) Acrolein	2.190	56	61487	88.71	ug/L	92
13) 1,1-Diclcethene	2.282	96	117882	49.76	ug/L	96
14) Freon 113	2.288	101	115210	46.24	ug/L	97
15) Acetone	2.324	43	71296	45.48	ug/L	97
16) 2-Propanol	2.458	45	352076	1065.09	ug/L	99
17) Iodomethane	2.410	142	165771	55.11	ug/L	100
18) Carbon Disulfide	2.471	76	352264	50.12	ug/L	99
19) Acetonitrile	2.574	41	175581	336.32	ug/L	98
20) Allyl Chloride	2.611	76	72786	52.02	ug/L #	86
21) Methyl Acetate	2.635	43	159841	52.38	ug/L	96
22) Methylene Chloride	2.733	84	135329	49.85	ug/L	97
23) TBA	2.861	59	546418	1105.17	ug/L	98
24) Acrylonitrile	2.983	53	399256	278.79	ug/L	100
25) Methyl-t-Butyl Ether	3.032	73	447015	51.78	ug/L	100
26) trans-1,2-Dichloroethene	3.025	96	126873	49.98	ug/L	94
27) 1,1-Diclcethane	3.525	63	266262	55.05	ug/L	97
28) Vinyl Acetate	3.617	86	31241	50.38	ug/L #	66
29) DIPE	3.647	45	553364	56.56	ug/L	93
30) 2-Chloro-1,3-Butadiene	3.647	53	249411	55.07	ug/L	95
31) ETBE	4.178	59	466493	52.44	ug/L	98
32) 2,2-Dichloropropane	4.354	77	214209	50.16	ug/L	97
33) cis-1,2-Dichloroethene	4.367	96	140856	50.58	ug/L	99
34) 2-Butanone	4.415	43	106508	53.70	ug/L	99
35) Propionitrile	4.495	54	167066	282.86	ug/L	97
36) Bromochloromethane	4.757	130	81799	50.16	ug/L	90
37) Methacrylonitrile	4.769	67	74775	52.26	ug/L	90
38) Tetrahydrofuran	4.848	42	70883	58.23	ug/L	87
39) Chloroform	4.946	83	235923	54.40	ug/L	96
40) 1,1,1-Trichloroethane	5.245	97	202384	51.05	ug/L	93



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2722.D  
 Acq On : 20 Apr 2018 8:43 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001MS|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 23 14:43:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	153441	52.07	ug/L	98
44) Carbontetrachloride	5.531	117	166810	50.17	ug/L	99
45) 1,1-Dichloropropene	5.537	75	188745	50.93	ug/L	95
47) Benzene	5.860	78	542421	54.17	ug/L	98
48) 1,2-Dichloroethane	5.897	62	215018	54.90	ug/L	97
49) Iso-Butyl Alcohol	5.879	43	236483	1069.89	ug/L	94
50) TAME	6.098	73	428772	52.57	ug/L	95
51) n-Heptane	6.348	43	191723	48.05	ug/L	93
52) 1-Butanol	6.848	56	334734	2616.60	ug/L	95
53) Trichloroethene	6.811	130	128860	49.32	ug/L	97
54) Methylcyclohexane	7.049	55	183268	50.44	ug/L	88
55) 1,2-Diclpropane	7.098	63	151559	55.65	ug/L	96
56) Dibromomethane	7.238	93	84289	50.47	ug/L	97
57) 1,4-Dioxane	7.299	88	51633	1031.22	ug/L	92
58) Methyl Methacrylate	7.323	69	123194	52.82	ug/L	89
59) Bromodichloromethane	7.464	83	174220	52.07	ug/L	97
60) 2-Nitropropane	7.750	41	110476	92.83	ug/L	100
62) cis-1,3-Dichloropropene	8.012	75	230888	51.79	ug/L	96
63) 4-Methyl-2-pentanone	8.213	43	214718	59.43	ug/L	99
65) Toluene	8.378	91	566990	51.20	ug/L	98
66) trans-1,3-Dichloropropene	8.652	75	212576	51.57	ug/L	99
67) Ethyl Methacrylate	8.793	69	222614	55.86	ug/L	88
68) 1,1,2-Trichloroethane	8.841	97	119256	51.80	ug/L	95
71) Tetrachloroethene	8.976	164	98906	51.54	ug/L	95
72) 2-Hexanone	9.128	43	158600	58.20	ug/L	91
73) 1,3-Dichloropropene	9.012	76	225791	53.58	ug/L	94
74) Dibromochloromethane	9.238	129	124295	52.09	ug/L	97
75) N-Butyl Acetate	9.286	43	331692	55.22	ug/L	99
76) 1,2-Dibromoethane	9.335	107	124772	50.81	ug/L	96
77) 3-Chlorobenzotrifluoride	9.847	180	190548	50.74	ug/L	98
78) Chlorobenzene	9.829	112	341487	50.42	ug/L	95
79) 4-Chlorobenzotrifluoride	9.902	180	167807	50.73	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	125642	52.14	ug/L	97
81) Ethylbenzene	9.951	106	189224	53.16	ug/L	97
82) (m+p)Xylene	10.061	106	463548	103.65	ug/L	97
83) o-Xylene	10.420	106	225033	50.33	ug/L	96
84) Styrene	10.433	104	387075	51.99	ug/L	98
85) Bromoform	10.585	173	86574	50.53	ug/L	99
86) 2-Chlorobenzotrifluoride	10.664	180	184175	51.11	ug/L	97
87) Isopropylbenzene	10.756	105	580581	50.33	ug/L	97
88) Cyclohexanone	10.817	55	188237	217.85	ug/L	98
89) trans-1,4-Dichloro-2-B...	11.060	53	64436	58.69	ug/L	97
91) 1,1,2,2-Tetrachloroethane	11.012	83	192039	54.03	ug/L	99
92) Bromobenzene	10.999	156	145122	48.50	ug/L	97
93) 1,2,3-Trichloropropane	11.042	110	55567	48.55	ug/L	# 90
94) n-Propylbenzene	11.109	91	726045	50.78	ug/L	99
95) 2-Chlorotoluene	11.170	91	429436	50.21	ug/L	97
96) 3-Chlorotoluene	11.225	91	437492	52.41	ug/L	98
97) 4-Chlorotoluene	11.268	91	498644	48.49	ug/L	99
98) 1,3,5-Trimethylbenzene	11.262	105	508811	50.63	ug/L	98
99) tert-Butylbenzene	11.536	119	422406	49.53	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	506644	51.39	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	147370	47.97	ug/L	97
102) sec-Butylbenzene	11.719	105	633132	49.81	ug/L	99
103) p-Isopropyltoluene	11.841	119	528936	50.04	ug/L	99
104) 1,3-Dclbenz	11.798	146	273554	48.70	ug/L	99

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2722.D  
 Acq On : 20 Apr 2018 8:43 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001MS|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 23 14:43:04 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

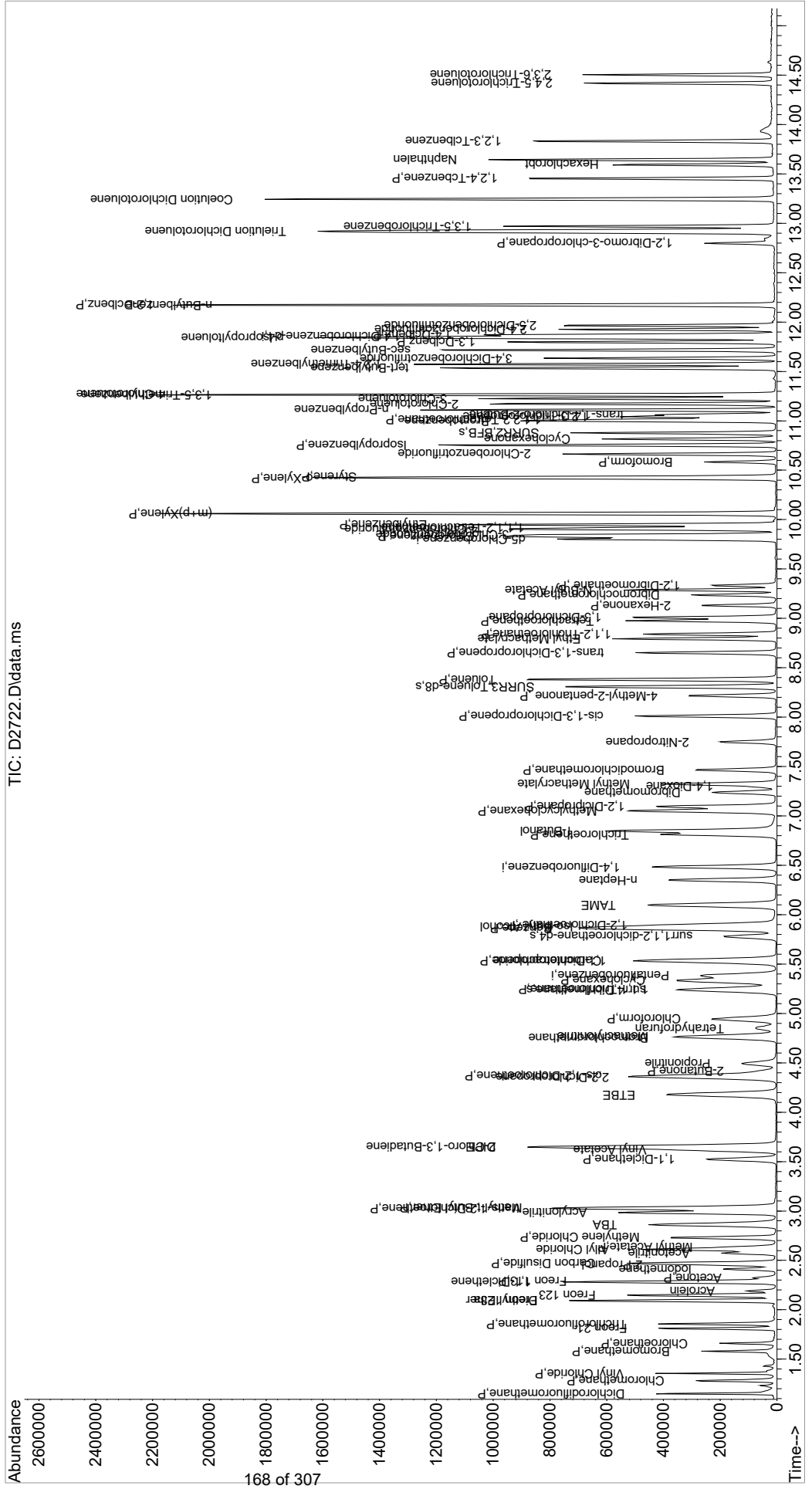
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.871	146	280429	47.63	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	135070	47.76	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.969	214	156516	49.95	ug/L	97
108) n-Butylbenzene	12.170	91	517661	50.37	ug/L	99
109) 1,2-Dclbenz	12.176	146	269941	48.97	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	41983	50.85	ug/L	92
111) Trielution Dichlorotol...	12.920	125	759129	152.05	ug/L	98
112) 1,3,5-Trichlorobenzene	12.969	180	206972	48.74	ug/L	99
113) Coelution Dichlorotoluene	13.243	125	547520	101.78	ug/L	99
114) 1,2,4-Tcbenzene	13.456	180	203929	49.75	ug/L	97
115) Hexachlorobt	13.597	225	78956	40.90	ug/L	94
116) Naphthalen	13.645	128	579392	54.03	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	197477	49.11	ug/L	98
118) 2,4,5-Trichlorotoluene	14.420	159	127280	48.18	ug/L	97
119) 2,3,6-Trichlorotoluene	14.505	159	115872	46.74	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\042018\  
 Data File : D2722.D  
 Acq On : 20 Apr 2018 8:43 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001MS|1.0  
 Misc : DAY 12666 T4  
 ALS Vial : 33 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 23 14:43:04 2018  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2723.D  
 Acq On : 20 Apr 2018 9:05 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001DMS|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 23 14:44:17 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.385	168	233780	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	355520	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.799	117	314547	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	171584	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.232	113	116752	51.78	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	103.56%		
46) surr1,1,2-dichloroetha...	5.775	65	163797	54.82	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	109.64%		
64) SURR3,Toluene-d8	8.305	98	461055	51.00	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	102.00%		
69) SURR2,BFB	10.878	95	177331	49.97	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	99.94%		
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.148	85	229486	63.80	ug/L	98
3) Chloromethane	1.276	50	235486	56.31	ug/L	98
4) Vinyl Chloride	1.355	62	211913	54.23	ug/L	98
5) Bromomethane	1.581	94	108424	41.02	ug/L	93
6) Chloroethane	1.660	64	101862	45.13	ug/L	98
7) Freon 21	1.812	67	281102	48.62	ug/L	100
8) Trichlorofluoromethane	1.855	101	223297	54.07	ug/L	97
9) Diethyl Ether	2.087	59	138591	54.73	ug/L	97
10) Freon 123a	2.093	67	175096	51.97	ug/L	92
11) Freon 123	2.148	83	245012	70.42	ug/L	98
12) Acrolein	2.190	56	63979	92.63	ug/L	93
13) 1,1-Dicethene	2.282	96	123004	52.10	ug/L	94
14) Freon 113	2.282	101	120463	48.52	ug/L	90
15) Acetone	2.324	43	77727	49.75	ug/L	97
16) 2-Propanol	2.459	45	379823	1152.97	ug/L	99
17) Iodomethane	2.410	142	166000	55.35	ug/L	98
18) Carbon Disulfide	2.471	76	370401	52.89	ug/L	100
19) Acetonitrile	2.574	41	161206	309.84	ug/L	98
20) Allyl Chloride	2.611	76	76333	54.74	ug/L	94
21) Methyl Acetate	2.635	43	168559	55.43	ug/L	96
22) Methylene Chloride	2.727	84	137718	50.91	ug/L	96
23) TBA	2.861	59	575374	1167.72	ug/L	98
24) Acrylonitrile	2.983	53	421250	295.15	ug/L	100
25) Methyl-t-Butyl Ether	3.032	73	464698	54.01	ug/L	99
26) trans-1,2-Dichloroethene	3.026	96	130265	51.49	ug/L #	87
27) 1,1-Dicethane	3.519	63	280669	58.22	ug/L	96
28) Vinyl Acetate	3.617	86	34114	55.20	ug/L #	67
29) DIPE	3.647	45	580490	59.53	ug/L	96
30) 2-Chloro-1,3-Butadiene	3.647	53	259771	57.55	ug/L	95
31) ETBE	4.178	59	491533	55.44	ug/L	98
32) 2,2-Dichloropropane	4.355	77	218184	51.26	ug/L	98
33) cis-1,2-Dichloroethene	4.367	96	147306	53.08	ug/L	97
34) 2-Butanone	4.415	43	108803	55.04	ug/L	97
35) Propionitrile	4.495	54	170294	289.31	ug/L	98
36) Bromochloromethane	4.763	130	84673	52.10	ug/L	93
37) Methacrylonitrile	4.763	67	77762	54.54	ug/L #	85
38) Tetrahydrofuran	4.854	42	73877	60.90	ug/L	90
39) Chloroform	4.940	83	242929	56.21	ug/L	94
40) 1,1,1-Trichloroethane	5.245	97	208854	52.87	ug/L	91

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2723.D  
 Acq On : 20 Apr 2018 9:05 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001DMS|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 23 14:44:17 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	160905	55.11	ug/L	97
44) Carbontetrachloride	5.525	117	174093	52.85	ug/L	95
45) 1,1-Dichloropropene	5.537	75	192914	52.54	ug/L	97
47) Benzene	5.860	78	563702	56.82	ug/L	99
48) 1,2-Dichloroethane	5.897	62	222191	57.27	ug/L	97
49) Iso-Butyl Alcohol	5.879	43	258214	1179.14	ug/L	100
50) TAME	6.098	73	451058	55.82	ug/L	98
51) n-Heptane	6.348	43	198309	50.17	ug/L	92
52) 1-Butanol	6.848	56	356742	2814.73	ug/L	95
53) Trichloroethene	6.811	130	133679	51.64	ug/L	99
54) Methylcyclohexane	7.049	55	187782	52.17	ug/L	97
55) 1,2-Diclpropane	7.092	63	157035	58.20	ug/L	97
56) Dibromomethane	7.238	93	88720	53.62	ug/L	98
57) 1,4-Dioxane	7.299	88	54557	1099.82	ug/L	88
58) Methyl Methacrylate	7.323	69	129162	55.90	ug/L #	85
59) Bromodichloromethane	7.464	83	182364	55.02	ug/L	99
60) 2-Nitropropane	7.750	41	119945	101.73	ug/L	97
62) cis-1,3-Dichloropropene	8.012	75	237408	53.76	ug/L	96
63) 4-Methyl-2-pentanone	8.214	43	225803	63.08	ug/L	98
65) Toluene	8.378	91	583063	53.14	ug/L	97
66) trans-1,3-Dichloropropene	8.652	75	222311	54.43	ug/L	98
67) Ethyl Methacrylate	8.793	69	232107	58.79	ug/L	90
68) 1,1,2-Trichloroethane	8.841	97	126359	55.40	ug/L	97
71) Tetrachloroethene	8.976	164	101791	51.73	ug/L	96
72) 2-Hexanone	9.128	43	163288	58.44	ug/L	95
73) 1,3-Dichloropropene	9.006	76	239202	55.36	ug/L	94
74) Dibromochloromethane	9.238	129	131823	53.88	ug/L	97
75) N-Butyl Acetate	9.286	43	349611	56.76	ug/L	100
76) 1,2-Dibromoethane	9.335	107	129961	51.61	ug/L	95
77) 3-Chlorobenzotrifluoride	9.847	180	195080	50.66	ug/L	99
78) Chlorobenzene	9.829	112	355789	51.23	ug/L	94
79) 4-Chlorobenzotrifluoride	9.902	180	174105	51.32	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.914	131	128856	52.15	ug/L	93
81) Ethylbenzene	9.951	106	197772	54.19	ug/L	98
82) (m+p)Xylene	10.061	106	487446	106.29	ug/L	95
83) o-Xylene	10.420	106	236942	51.68	ug/L	99
84) Styrene	10.433	104	404035	52.93	ug/L	98
85) Bromoform	10.585	173	92477	52.64	ug/L	95
86) 2-Chlorobenzotrifluoride	10.664	180	192815	52.18	ug/L	98
87) Isopropylbenzene	10.756	105	605926	51.23	ug/L	97
88) Cyclohexanone	10.817	55	192685	217.47	ug/L	97
89) trans-1,4-Dichloro-2-B...	11.061	53	69086	61.37	ug/L	98
91) 1,1,2,2-Tetrachloroethane	11.012	83	200054	56.63	ug/L	99
92) Bromobenzene	11.000	156	149614	50.31	ug/L	96
93) 1,2,3-Trichloropropane	11.042	110	56877	50.00	ug/L #	89
94) n-Propylbenzene	11.109	91	747149	52.58	ug/L	100
95) 2-Chlorotoluene	11.170	91	442344	52.04	ug/L	98
96) 3-Chlorotoluene	11.225	91	461467	55.63	ug/L	100
97) 4-Chlorotoluene	11.268	91	508147	49.72	ug/L	100
98) 1,3,5-Trimethylbenzene	11.262	105	514159	51.48	ug/L	99
99) tert-Butylbenzene	11.536	119	437367	51.60	ug/L	98
100) 1,2,4-Trimethylbenzene	11.573	105	525580	53.64	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	159483	52.24	ug/L	98
102) sec-Butylbenzene	11.719	105	652797	51.68	ug/L	99
103) p-Isopropyltoluene	11.835	119	545035	51.88	ug/L	98
104) 1,3-Dclbenz	11.798	146	283885	50.86	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2723.D  
 Acq On : 20 Apr 2018 9:05 pm  
 Operator : D.LIPANI  
 Sample : R1803412-001DMS|1.0 Inst : MSVOA10  
 Misc : DAY 12666 T4  
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 23 14:44:17 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
105) 1,4-Dclbenz	11.871	146	288093	49.23	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	140589	50.02	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	163137	52.38	ug/L	100
108) n-Butylbenzene	12.170	91	528900	51.78	ug/L	99
109) 1,2-Dclbenz	12.176	146	282799	51.62	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	43264	52.72	ug/L	92
111) Trielution Dichlorotol...	12.914	125	778185	156.83	ug/L	95
112) 1,3,5-Trichlorobenzene	12.969	180	217029	51.43	ug/L	98
113) Coelution Dichlorotoluene	13.243	125	566762	106.01	ug/L	98
114) 1,2,4-Tcbenzene	13.456	180	206830	50.77	ug/L	99
115) Hexachlorobt	13.591	225	81107	42.28	ug/L	96
116) Naphthalen	13.645	128	593871	55.72	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	204496	51.17	ug/L	95
118) 2,4,5-Trichlorotoluene	14.420	159	133900	51.00	ug/L	99
119) 2,3,6-Trichlorotoluene	14.505	159	122505	49.72	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed





Evaluate Continuing Calibration Report

1st DL 04/23/18  
2nd BA 04/23/18

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2693.D  
Acq On : 20 Apr 2018 9:51 am  
Operator : D.LIPANI  
Sample : CCV  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 10:05:20 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	Pentafluorobenzene	1.0000	1.0000	0.0	112	0.00
2 P	Dichlorodifluoromethane	0.7693	0.7144	7.1	104	0.00
3 P	Chloromethane	0.8944	0.8539	4.5	110	0.00
4 P	Vinyl Chloride	0.8358	0.7678	8.1	105	0.00
5 P	Bromomethane	0.6737	0.4910	-12.5	<del>27.1</del>	106 0.00
6 P	Chloroethane	0.4827	0.4637	3.9	107	0.00
7	Freon 21	1.2366	1.1625	6.0	105	0.00
8 P	Trichlorofluoromethane	0.8832	0.8119	8.1	101	0.00
9	Diethyl Ether	0.5416	0.5149	4.9	106	0.00
10	Freon 123a	0.7205	0.6995	2.9	109	0.00
11	Freon 123	0.7441	0.7297	1.9	109	0.00
12	Acrolein	0.1477	0.1360	7.9	104	0.00
13	1,1-Dicethene	0.5050	0.4612	8.7	106	0.00
14 P	Freon 113	0.5310	0.5110	3.8	109	0.00
15 P	Acetone	0.3341	0.3070	8.1	99	0.00
16	2-Propanol	0.0705	0.0641	9.1	103	0.00
17	Iodomethane	0.5651	0.5296	-14.9	<del>6.3</del>	86 0.00
18 P	Carbon Disulfide	1.4980	1.4165	5.4	106	0.00
19	Acetonitrile	0.1113	0.1209	-8.6	109	0.00
20	Allyl Chloride	0.2983	0.2875	3.6	108	0.00
21 P	Methyl Acetate	0.6504	0.6557	-0.8	112	0.00
22 P	Methylene Chloride	0.5786	0.5300	8.4	110	0.00
23	TBA	0.1054	0.0896	15.0	94	0.00
24	Acrylonitrile	0.3052	0.2978	2.4	107	0.00
25 P	Methyl-t-Butyl Ether	1.8402	1.7834	3.1	107	0.00
26 P	trans-1,2-Dichloroethene	0.5411	0.5042	6.8	107	0.00
27 P	1,1-Dicethane	1.0310	1.0218	0.9	110	0.00
28	Vinyl Acetate	0.1322	0.1277	3.4	100	0.00
29	DIPE	2.0855	2.1859	-4.8	118	0.00
30	2-Chloro-1,3-Butadiene	0.9653	0.9522	1.4	111	0.00
31	ETBE	1.8962	1.8968	-0.0	113	0.00
32	2,2-Dichloropropane	0.9103	0.8389	7.8	106	0.00
33 P	cis-1,2-Dichloroethene	0.5935	0.5536	6.7	106	0.00
34 P	2-Butanone	0.4228	0.4187	1.0	111	0.00
35	Propionitrile	0.1259	0.1157	8.1	103	-0.01
36	Bromochloromethane	0.3476	0.3267	6.0	104	0.00
37	Methacrylonitrile	0.3050	0.2671	12.4	101	0.00
38	Tetrahydrofuran	0.2595	0.2531	2.5	110	0.00
39 P	Chloroform	0.9243	0.9051	2.1	108	0.00
40 P	1,1,1-Trichloroethane	0.8449	0.7854	7.0	104	0.00
41 i	1,4-Difluorobenzene	1.0000	1.0000	0.0	111	0.00
42 P	Cyclohexane	0.4106	0.4397	-7.1	119	0.00
43 s	surr4,Dibrflmethane	0.3171	0.3151	0.6	110	0.00
44 P	Carbontetrachloride	0.4633	0.4325	6.6	102	0.00
45	1,1-Dichloropropene	0.5164	0.4935	4.4	109	0.00
46 s	surr1,1,2-dichloroethane-d4	0.4202	0.4347	-3.5	116	0.00
47 P	Benzene	1.3953	1.3691	1.9	109	0.00
48 P	1,2-Dichloroethane	0.5457	0.5509	-1.0	110	0.00
49	Iso-Butyl Alcohol	0.0308	0.0265	14.0	95	0.00
50	TAME	1.1365	1.1036	2.9	107	0.00
51	n-Heptane	0.5559	0.5737	-3.2	112	0.00



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2693.D  
Acq On : 20 Apr 2018 9:51 am  
Operator : D.LIPANI  
Sample : CCV  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 10:05:20 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	1-Butanol	0.0178	0.0146	18.0	88	0.00
53 P	Trichloroethene	0.3641	0.3334	8.4	103	0.00
54 P	Methylcyclohexane	0.5063	0.5217	-3.0	113	0.00
55 P	1,2-Diclp propane	0.3795	0.3769	0.7	110	0.00
56	Dibromomethane	0.2327	0.2176	6.5	105	0.00
57	1,4-Dioxane	0.0070	0.0060	14.3	96	-0.01
58	Methyl Methacrylate	0.3250	0.2901	10.7	99	0.00
59 P	Bromodichloromethane	0.4662	0.4486	3.8	105	0.00
60	2-Nitropropane	0.1658	0.1426	14.0	97	0.00
61	2-Chloroethylvinyl Ether	0.2067	0.2152	-4.1	115	0.00
62 P	cis-1,3-Dichloropropene	0.6211	0.5846	5.9	105	0.00
63 P	4-Methyl-2-pentanone	0.5034	0.5020	0.3	109	0.00
64 s	SURR3,Toluene-d8	1.2713	1.2546	1.3	109	0.00
65 P	Toluene	1.5430	1.4363	6.9	106	0.00
66 P	trans-1,3-Dichloropropene	0.5744	0.5386	6.2	104	0.00
67	Ethyl Methacrylate	0.5553	0.5215	6.1	101	0.00
68 P	1,1,2-Trichloroethane	0.3208	0.3086	3.8	106	0.00
69 s	SURR2,BFB	0.4991	0.4896	1.9	109	0.00
70 i	d5-Chlorobenzene	1.0000	1.0000	0.0	111	0.00
71 P	Tetrachloroethene	0.3128	0.3092	1.2	107	0.00
72 P	2-Hexanone	0.4442	0.4427	0.3	109	0.00
73	1,3-Dichloropropene	0.6868	0.6589	4.1	108	0.00
74 P	Dibromochloromethane	0.3889	0.3764	3.2	101	0.00
75	N-Butyl Acetate	0.9791	0.9742	0.5	109	0.00
76 P	1,2-Dibromoethane	0.4003	0.3686	7.9	102	0.00
77	3-Chlorobenzotrifluoride	0.6122	0.5765	5.8	106	0.00
78 P	Chlorobenzene	1.1039	1.0471	5.1	104	0.00
79	4-Chlorobenzotrifluoride	0.5392	0.5147	4.5	106	0.00
80	1,1,1,2-Tetrachloroethane	0.3928	0.3750	4.5	102	0.00
81 P	Ethylbenzene	0.5802	0.5610	3.3	104	0.00
82 P	(m+p)Xylene	0.7290	0.6964	4.5	103	0.00
83 P	o-Xylene	0.7287	0.6790	6.8	103	0.00
84 P	Styrene	1.2135	1.1628	4.2	103	0.00
85 P	Bromoform	0.2793	0.2559	8.4	99	0.00
86	2-Chlorobenzotrifluoride	0.5874	0.5604	4.6	105	0.00
87 P	Isopropylbenzene	1.8803	1.8162	3.4	105	0.00
88	Cyclohexanone	0.1408	0.1271	9.7	97	0.00
89	trans-1,4-Dichloro-2-Butene	0.1790	0.1590	11.2	98	0.00
90 i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	113	0.00
91 P	1,1,2,2-Tetrachloroethane	1.0295	0.9402	8.7	101	0.00
92	Bromobenzene	0.8666	0.7830	9.6	106	0.00
93	1,2,3-Trichloropropene	0.3315	0.2818	15.0	102	0.00
94	n-Propylbenzene	4.1411	3.9177	5.4	105	0.00
95	2-Chlorotoluene	2.4771	2.2587	8.8	105	0.00
96	3-Chlorotoluene	2.4174	2.2765	5.8	108	0.00
97	4-Chlorotoluene	2.9783	2.7246	8.5	104	0.00
98	1,3,5-Trimethylbenzene	2.9102	2.6791	7.9	103	0.00
99	tert-Butylbenzene	2.4698	2.2865	7.4	104	0.00
100	1,2,4-Trimethylbenzene	2.8550	2.6982	5.5	105	0.00
101	3,4-Dichlorobenzotrifluorid	0.8897	0.8310	6.6	105	0.00

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2693.D  
 Acq On : 20 Apr 2018 9:51 am  
 Operator : D.LIPANI  
 Sample : CCV Inst : MSVOA10  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 10:05:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
102	sec-Butylbenzene	3.6809	3.4507	6.3	104	0.00
103	p-Isopropyltoluene	3.0612	2.9062	5.1	103	0.00
104 P	1,3-Dclbenz	1.6266	1.5228	6.4	105	0.00
105 P	1,4-Dclbenz	1.7053	1.5514	9.0	106	0.00
106	2,4-Dichlorobenzotrifluorid	0.8191	0.7413	9.5	101	0.00
107	2,5-Dichlorobenzotrifluorid	0.9075	0.8340	8.1	102	0.00
108	n-Butylbenzene	2.9766	2.8415	4.5	105	0.00
109 P	1,2-Dclbenz	1.5964	1.4838	7.1	104	0.00
110 P	1,2-Dibromo-3-chloropropane	0.2391	0.2064	13.7	92	0.00
111	Trielution Dichlorotoluene	1.4459	1.3357	7.6	104	0.00
112	1,3,5-Trichlorobenzene	1.2298	1.1415	7.2	105	0.00
113	Coelution Dichlorotoluene	1.5579	1.4689	5.7	105	0.00
114 P	1,2,4-Tcbenzene	1.1872	1.1378	4.2	105	0.00
115	Hexachlorobt	0.5590	0.4973	11.0	98	0.00
116	Naphthalen	3.1056	2.9490	5.0	102	0.00
117	1,2,3-Tclbenzene	1.1645	1.0957	5.9	105	0.00
118	2,4,5-Trichlorotoluene	0.7651	0.7470	2.4	103	0.00
119	2,3,6-Trichlorotoluene	0.7180	0.6668	7.1	101	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2693.D  
 Acq On : 20 Apr 2018 9:51 am  
 Operator : D.LIPANI  
 Sample : CCV Inst : MSVOA10  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 10:05:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.385	168	256177	50.00	ug/L	0.00	
41) 1,4-Difluorobenzene	6.482	114	392170	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.805	117	338848	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.853	152	191157	50.00	ug/L	0.00	
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.232	113	123577	49.69	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery =	99.38%			
46) surr1,1,2-dichloroetha...	5.775	65	170468	51.72	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery =	103.44%			
64) SURR3,Toluene-d8	8.311	98	492013	49.34	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery =	98.68%			
69) SURR2,BFB	10.878	95	191990	49.05	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery =	98.10%			
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.154	85	183009	46.43	ug/L		99
3) Chloromethane	1.282	50	218761	47.74	ug/L		100
4) Vinyl Chloride	1.355	62	196694	45.93	ug/L		98
5) Bromomethane	1.581	94	125784	43.73	ug/L		98
6) Chloroethane	1.660	64	118793	48.03	ug/L		99
7) Freon 21	1.812	67	297809	47.01	ug/L		100
8) Trichlorofluoromethane	1.861	101	207987	45.96	ug/L		95
9) Diethyl Ether	2.093	59	131903	47.54	ug/L		99
10) Freon 123a	2.093	67	179187	48.54	ug/L		94
11) Freon 123	2.148	83	186927	49.03	ug/L		99
12) Acrolein	2.190	56	174257	230.23	ug/L		97
13) 1,1-Diclcethene	2.282	96	118137	45.66	ug/L		95
14) Freon 113	2.288	101	130902	48.11	ug/L		98
15) Acetone	2.324	43	78647	45.94	ug/L		99
16) 2-Propanol	2.458	45	328371	909.63	ug/L		99
17) Iodomethane	2.416	142	135668	42.56	ug/L		98
18) Carbon Disulfide	2.477	76	362864	47.28	ug/L		99
19) Acetonitrile	2.574	41	154846	271.60	ug/L		97
20) Allyl Chloride	2.611	76	73640	48.19	ug/L	#	85
21) Methyl Acetate	2.635	43	167985	50.41	ug/L		99
22) Methylene Chloride	2.733	84	135784	45.80	ug/L		98
23) TBA	2.855	59	459160	850.40	ug/L		96
24) Acrylonitrile	2.983	53	381449	243.90	ug/L		98
25) Methyl-t-Butyl Ether	3.031	73	456874	48.46	ug/L		100
26) trans-1,2-Dichloroethene	3.025	96	129165	46.59	ug/L		97
27) 1,1-Diclcethane	3.525	63	261767	49.56	ug/L		96
28) Vinyl Acetate	3.617	86	32723	48.32	ug/L	#	79
29) DIPE	3.647	45	559975	52.41	ug/L		95
30) 2-Chloro-1,3-Butadiene	3.647	53	243939	49.32	ug/L		95
31) ETBE	4.178	59	485912	50.02	ug/L		97
32) 2,2-Dichloropropane	4.360	77	214918	46.08	ug/L		99
33) cis-1,2-Dichloroethene	4.367	96	141814	46.64	ug/L		99
34) 2-Butanone	4.409	43	107251	49.51	ug/L		98
35) Propionitrile	4.489	54	148180	229.74	ug/L		98
36) Bromochloromethane	4.763	130	83692	47.00	ug/L		93
37) Methacrylonitrile	4.763	67	68430	43.80	ug/L		91
38) Tetrahydrofuran	4.854	42	64847	48.78	ug/L		85
39) Chloroform	4.940	83	231863	48.96	ug/L		96
40) 1,1,1-Trichloroethane	5.244	97	201202	46.48	ug/L		96

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2693.D  
 Acq On : 20 Apr 2018 9:51 am  
 Operator : D.LIPANI  
 Sample : CCV  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 20 10:05:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	172421	53.54	ug/L	97
44) Carbontetrachloride	5.531	117	169617	46.68	ug/L	99
45) 1,1-Dichloropropene	5.537	75	193552	47.79	ug/L	98
47) Benzene	5.860	78	536907	49.06	ug/L	98
48) 1,2-Dichloroethane	5.897	62	216042	50.48	ug/L	96
49) Iso-Butyl Alcohol	5.878	43	207524	859.10	ug/L	95
50) TAME	6.098	73	432812	48.56	ug/L	98
51) n-Heptane	6.354	43	224977	51.60	ug/L	95
52) 1-Butanol	6.848	56	286330	2048.05	ug/L	93
53) Trichloroethene	6.811	130	130765	45.80	ug/L	98
54) Methylcyclohexane	7.049	55	204591	51.52	ug/L	94
55) 1,2-Diclpropane	7.092	63	147810	49.66	ug/L	99
56) Dibromomethane	7.238	93	85325	46.75	ug/L	97
57) 1,4-Dioxane	7.299	88	46973	858.44	ug/L	98
58) Methyl Methacrylate	7.323	69	113769	44.64	ug/L	93
59) Bromodichloromethane	7.464	83	175929	48.12	ug/L	99
60) 2-Nitropropane	7.750	41	111808	85.97	ug/L	96
61) 2-Chloroethylvinyl Ether	7.878	63	84406	52.06	ug/L	98
62) cis-1,3-Dichloropropene	8.012	75	229251	47.06	ug/L	98
63) 4-Methyl-2-pentanone	8.213	43	196872	49.86	ug/L	98
65) Toluene	8.384	91	563288	46.54	ug/L	99
66) trans-1,3-Dichloropropene	8.652	75	211236	46.89	ug/L	97
67) Ethyl Methacrylate	8.793	69	204503	46.96	ug/L	92
68) 1,1,2-Trichloroethane	8.841	97	121028	48.11	ug/L	94
71) Tetrachloroethene	8.975	164	104782	49.43	ug/L	97
72) 2-Hexanone	9.128	43	150012	49.83	ug/L	92
73) 1,3-Dichloropropane	9.012	76	223283	47.97	ug/L	91
74) Dibromochloromethane	9.238	129	127547	48.39	ug/L	96
75) N-Butyl Acetate	9.286	43	330098	49.75	ug/L	100
76) 1,2-Dibromoethane	9.335	107	124907	46.05	ug/L	100
77) 3-Chlorobenzotrifluoride	9.847	180	195353	47.09	ug/L	98
78) Chlorobenzene	9.829	112	354792	47.42	ug/L	97
79) 4-Chlorobenzotrifluoride	9.902	180	174417	47.73	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	127063	47.73	ug/L	97
81) Ethylbenzene	9.951	106	190095	48.35	ug/L	98
82) (m+p)Xylene	10.061	106	471964	95.53	ug/L	94
83) o-Xylene	10.420	106	230079	46.59	ug/L	96
84) Styrene	10.432	104	394014	47.91	ug/L	96
85) Bromoform	10.585	173	86707	45.81	ug/L	97
86) 2-Chlorobenzotrifluoride	10.664	180	189878	47.70	ug/L	98
87) Isopropylbenzene	10.756	105	615421	48.30	ug/L	98
88) Cyclohexanone	10.817	55	861407	902.50	ug/L	100
89) trans-1,4-Dichloro-2-B...	11.060	53	53863	44.41	ug/L	99
91) 1,1,2,2-Tetrachloroethane	11.012	83	179719	45.66	ug/L	98
92) Bromobenzene	10.999	156	149681	45.18	ug/L	97
93) 1,2,3-Trichloropropane	11.042	110	53870	42.51	ug/L #	89
94) n-Propylbenzene	11.109	91	748898	47.30	ug/L	99
95) 2-Chlorotoluene	11.170	91	431758	45.59	ug/L	98
96) 3-Chlorotoluene	11.225	91	435173	47.09	ug/L	99
97) 4-Chlorotoluene	11.268	91	520834	45.74	ug/L	99
98) 1,3,5-Trimethylbenzene	11.262	105	512126	46.03	ug/L	98
99) tert-Butylbenzene	11.536	119	437072	46.29	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	515779	47.25	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.633	214	158851	46.70	ug/L	95
102) sec-Butylbenzene	11.719	105	659626	46.87	ug/L	99
103) p-Isopropyltoluene	11.841	119	555541	47.47	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\042018\  
 Data File : D2693.D  
 Acq On : 20 Apr 2018 9:51 am  
 Operator : D.LIPANI  
 Sample : CCV Inst : MSVOA10  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 20 10:05:20 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	291102	46.81	ug/L	99
105) 1,4-Dclbenz	11.871	146	296565	45.49	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	141713	45.25	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	159428	45.95	ug/L	96
108) n-Butylbenzene	12.170	91	543165	47.73	ug/L	99
109) 1,2-Dclbenz	12.176	146	283636	46.47	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.798	157	39446	43.15	ug/L	91
111) Trielution Dichlorotol...	12.920	125	765978	138.56	ug/L	97
112) 1,3,5-Trichlorobenzene	12.975	180	218207	46.41	ug/L	99
113) Coelution Dichlorotoluene	13.249	125	561590	94.29	ug/L	96
114) 1,2,4-Tcbenzene	13.456	180	217493	47.92	ug/L	97
115) Hexachlorobt	13.590	225	95070	44.48	ug/L	99
116) Naphthalen	13.645	128	563717	47.48	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	209451	47.05	ug/L	95
118) 2,4,5-Trichlorotoluene	14.419	159	142794	48.82	ug/L	99
119) 2,3,6-Trichlorotoluene	14.505	159	127464	46.44	ug/L	97

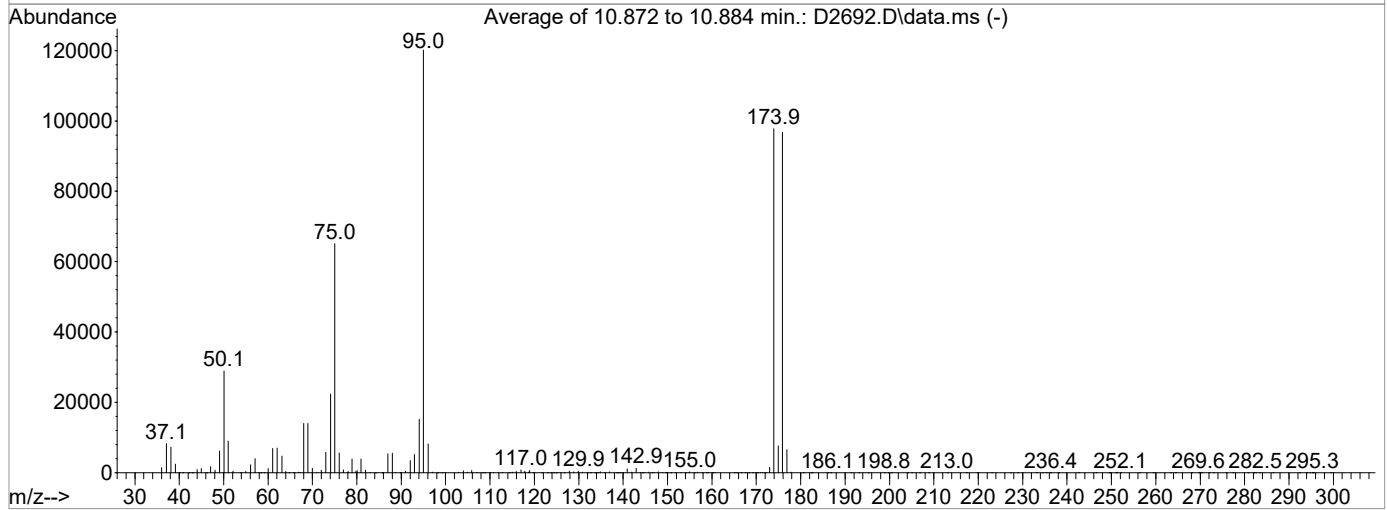
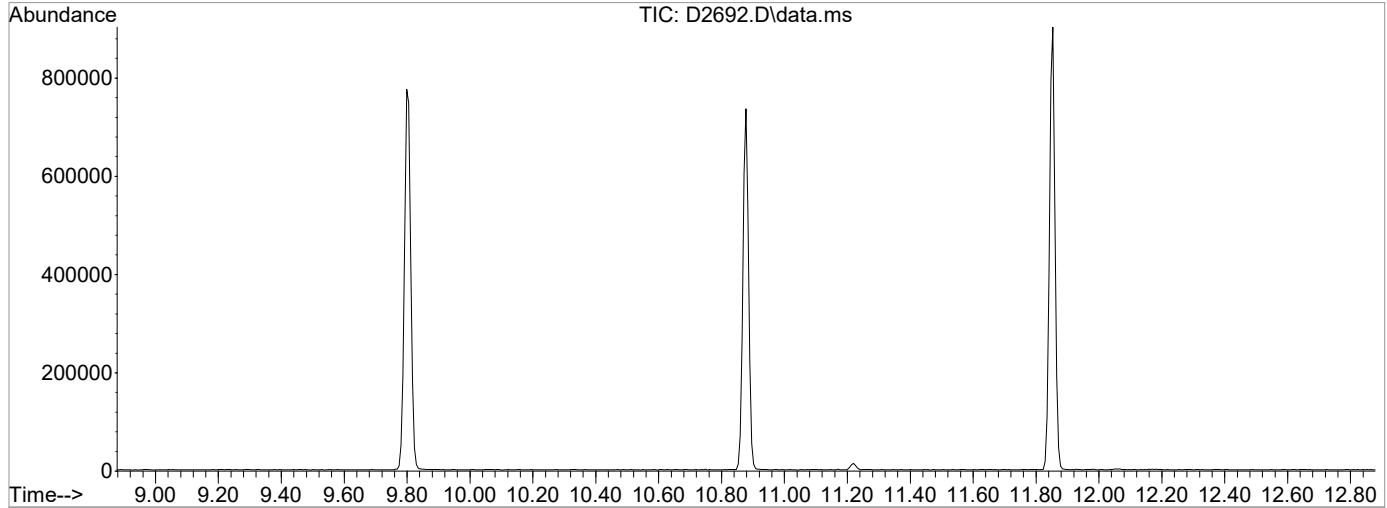
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa10\data\042018\  
Data File : D2692.D  
Acq On : 20 Apr 2018 9:09 am  
Operator : D.LIPANI  
Sample : TUNE CHECK Inst : MSVOA10  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Title : MS#10 - 8260B WATERS 5.0mL Purge  
Last Update : Wed Apr 11 16:43:38 2018



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1596

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	28951	PASS
75	95	30	60	54.2	65104	PASS
95	95	100	100	100.0	120149	PASS
96	95	5	9	6.8	8158	PASS
173	174	0.00	2	1.6	1527	PASS
174	95	50	120	81.4	97819	PASS
175	174	5	9	7.9	7684	PASS
176	174	95	101	99.0	96811	PASS
177	176	5	9	6.7	6531	PASS



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2538.D  
Acq On : 11 Apr 2018 5:32 pm  
Operator : D.LIPANI  
Sample : ICV  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 18:09:39 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.385	168	233725	50.00	ug/L	0.00	
41) 1,4-Difluorobenzene	6.482	114	347745	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.805	117	307500	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.853	152	164349	50.00	ug/L	0.00	
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.238	113	109849	49.81	ug/L	0.00	
Spiked Amount	50.000	Range	89 - 119	Recovery	=	99.62%	
46) surr1,1,2-dichloroetha...	5.781	65	146227	50.03	ug/L	0.00	
Spiked Amount	50.000	Range	73 - 125	Recovery	=	100.06%	
64) SURR3,Toluene-d8	8.305	98	439083	49.66	ug/L	0.00	
Spiked Amount	50.000	Range	87 - 121	Recovery	=	99.32%	
69) SURR2,BFB	10.878	95	168431	48.53	ug/L	0.00	
Spiked Amount	50.000	Range	85 - 122	Recovery	=	97.06%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.148	85	188653	52.46	ug/L		98
3) Chloromethane	1.282	50	188261	45.03	ug/L		99
4) Vinyl Chloride	1.355	62	181125	46.36	ug/L		100
5) Bromomethane	1.581	94	111465	42.32	ug/L		99
6) Chloroethane	1.660	64	90420	40.07	ug/L		98
7) Freon 21	1.812	67	258327	44.69	ug/L		99
8) Trichlorofluoromethane	1.855	101	210374	50.96	ug/L		97
9) Diethyl Ether	2.093	59	117779	46.53	ug/L		98
10) Freon 123a	2.093	67	157714	46.82	ug/L		96
11) Freon 123	2.148	83	222944	64.09	ug/L		97
12) Acrolein	2.190	56	62042	89.84	ug/L		94
13) 1,1-Diclcethene	2.282	96	110987	47.02	ug/L		98
14) Freon 113	2.288	101	115178	46.40	ug/L		97
15) Acetone	2.324	43	74834	47.91	ug/L		96
16) 2-Propanol	2.459	45	320870	974.24	ug/L		97
17) Iodomethane	2.410	142	151146	50.92	ug/L		98
18) Carbon Disulfide	2.471	76	351248	50.16	ug/L		99
19) Acetonitrile	2.574	41	121690	233.95	ug/L		97
20) Allyl Chloride	2.611	76	68364	49.04	ug/L		95
21) Methyl Acetate	2.635	43	148588	48.87	ug/L		99
22) Methylene Chloride	2.727	84	122967	45.46	ug/L		97
23) TBA	2.861	59	479793	973.97	ug/L		98
24) Acrylonitrile	2.983	53	348015	243.90	ug/L		97
25) Methyl-t-Butyl Ether	3.032	73	412289	47.93	ug/L		98
26) trans-1,2-Dichloroethene	3.025	96	121795	48.16	ug/L		99
27) 1,1-Diclcethane	3.525	63	235240	48.81	ug/L		96
28) Vinyl Acetate	3.617	86	31611	51.16	ug/L	#	95
29) DIPE	3.647	45	465077	47.71	ug/L		95
30) 2-Chloro-1,3-Butadiene	3.647	53	229342	50.82	ug/L		98
31) ETBE	4.178	59	420403	47.43	ug/L		99
32) 2,2-Dichloropropane	4.361	77	204100	47.97	ug/L		97
33) cis-1,2-Dichloroethene	4.367	96	131172	47.28	ug/L		89
34) 2-Butanone	4.409	43	96881	49.02	ug/L		91
35) Propionitrile	4.495	54	139871	237.68	ug/L		98
36) Bromochloromethane	4.763	130	79017	48.64	ug/L		99
37) Methacrylonitrile	4.769	67	67752	47.53	ug/L	#	84
38) Tetrahydrofuran	4.854	42	55310	45.60	ug/L		95
39) Chloroform	4.946	83	211544	48.96	ug/L		98
40) 1,1,1-Trichloroethane	5.245	97	188932	47.84	ug/L		97



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2538.D  
Acq On : 11 Apr 2018 5:32 pm  
Operator : D.LIPANI  
Sample : ICV  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 18:09:39 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	136147	47.67	ug/L	100
44) Carbontetrachloride	5.525	117	162377	50.39	ug/L	94
45) 1,1-Dichloropropene	5.537	75	174501	48.59	ug/L	97
47) Benzene	5.860	78	490294	50.52	ug/L	99
48) 1,2-Dichloroethane	5.897	62	191324	50.41	ug/L	96
49) Iso-Butyl Alcohol	5.879	43	213851	998.39	ug/L	92
50) TAME	6.098	73	399073	50.49	ug/L	99
51) n-Heptane	6.348	43	187908	48.60	ug/L	99
52) 1-Butanol	6.848	56	323166	2606.83	ug/L	98
53) Trichloroethene	6.811	130	126602	50.00	ug/L	98
54) Methylcyclohexane	7.049	55	171051	48.58	ug/L	97
55) 1,2-Diclpropane	7.098	63	133446	50.56	ug/L	99
56) Dibromomethane	7.238	93	80153	49.53	ug/L	92
57) 1,4-Dioxane	7.299	88	48286	995.17	ug/L	100
58) Methyl Methacrylate	7.323	69	112533	49.79	ug/L	98
59) Bromodichloromethane	7.464	83	162409	50.09	ug/L	99
60) 2-Nitropropane	7.750	41	108189	93.81	ug/L	99
61) 2-Chloroethylvinyl Ether	7.872	63	74225	51.63	ug/L	92
62) cis-1,3-Dichloropropene	8.012	75	216155	50.04	ug/L	98
63) 4-Methyl-2-pentanone	8.220	43	178964	51.11	ug/L	99
65) Toluene	8.378	91	527446	49.15	ug/L	98
66) trans-1,3-Dichloropropene	8.652	75	201300	50.39	ug/L	99
67) Ethyl Methacrylate	8.793	69	201534	52.19	ug/L	95
68) 1,1,2-Trichloroethane	8.841	97	114368	51.27	ug/L	93
71) Tetrachloroethene	8.976	164	96829	50.33	ug/L	96
72) 2-Hexanone	9.134	43	135460	49.59	ug/L	96
73) 1,3-Dichloropropane	9.012	76	206428	48.87	ug/L	99
74) Dibromochloromethane	9.238	129	123348	51.57	ug/L	98
75) N-Butyl Acetate	9.286	43	290593	48.26	ug/L	98
76) 1,2-Dibromoethane	9.335	107	118722	48.23	ug/L	93
77) 3-Chlorobenzotrifluoride	9.847	180	183350	48.70	ug/L	98
78) Chlorobenzene	9.829	112	328400	48.37	ug/L	99
79) 4-Chlorobenzotrifluoride	9.902	180	164656	49.65	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	124125	51.38	ug/L	97
81) Ethylbenzene	9.951	106	180721	50.65	ug/L	96
82) (m+p)Xylene	10.061	106	445235	99.31	ug/L	97
83) o-Xylene	10.420	106	219217	48.91	ug/L	99
84) Styrene	10.433	104	371266	49.75	ug/L	99
85) Bromoform	10.585	173	88878	51.75	ug/L	98
86) 2-Chlorobenzotrifluoride	10.664	180	177030	49.00	ug/L	96
87) Isopropylbenzene	10.756	105	568970	49.20	ug/L	99
88) Cyclohexanone	10.817	55	662982	765.42	ug/L	100
89) trans-1,4-Dichloro-2-B...	11.060	53	57742	52.47	ug/L	90
91) 1,1,2,2-Tetrachloroethane	11.012	83	175696	51.92	ug/L	98
92) Bromobenzene	11.000	156	141239	49.58	ug/L	95
93) 1,2,3-Trichloropropane	11.042	110	50958	46.77	ug/L #	90
94) n-Propylbenzene	11.109	91	688942	50.61	ug/L	98
95) 2-Chlorotoluene	11.170	91	404001	49.62	ug/L	98
96) 3-Chlorotoluene	11.225	91	406300	51.13	ug/L	99
97) 4-Chlorotoluene	11.268	91	474747	48.49	ug/L	100
98) 1,3,5-Trimethylbenzene	11.262	105	484071	50.60	ug/L	100
99) tert-Butylbenzene	11.536	119	412371	50.80	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	486058	51.79	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	148966	50.94	ug/L	96
102) sec-Butylbenzene	11.719	105	622416	51.44	ug/L	99
103) p-Isopropyltoluene	11.841	119	521871	51.86	ug/L	99

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2538.D  
 Acq On : 11 Apr 2018 5:32 pm  
 Operator : D.LIPANI  
 Sample : ICV Inst : MSVOA10  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 11 18:09:39 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

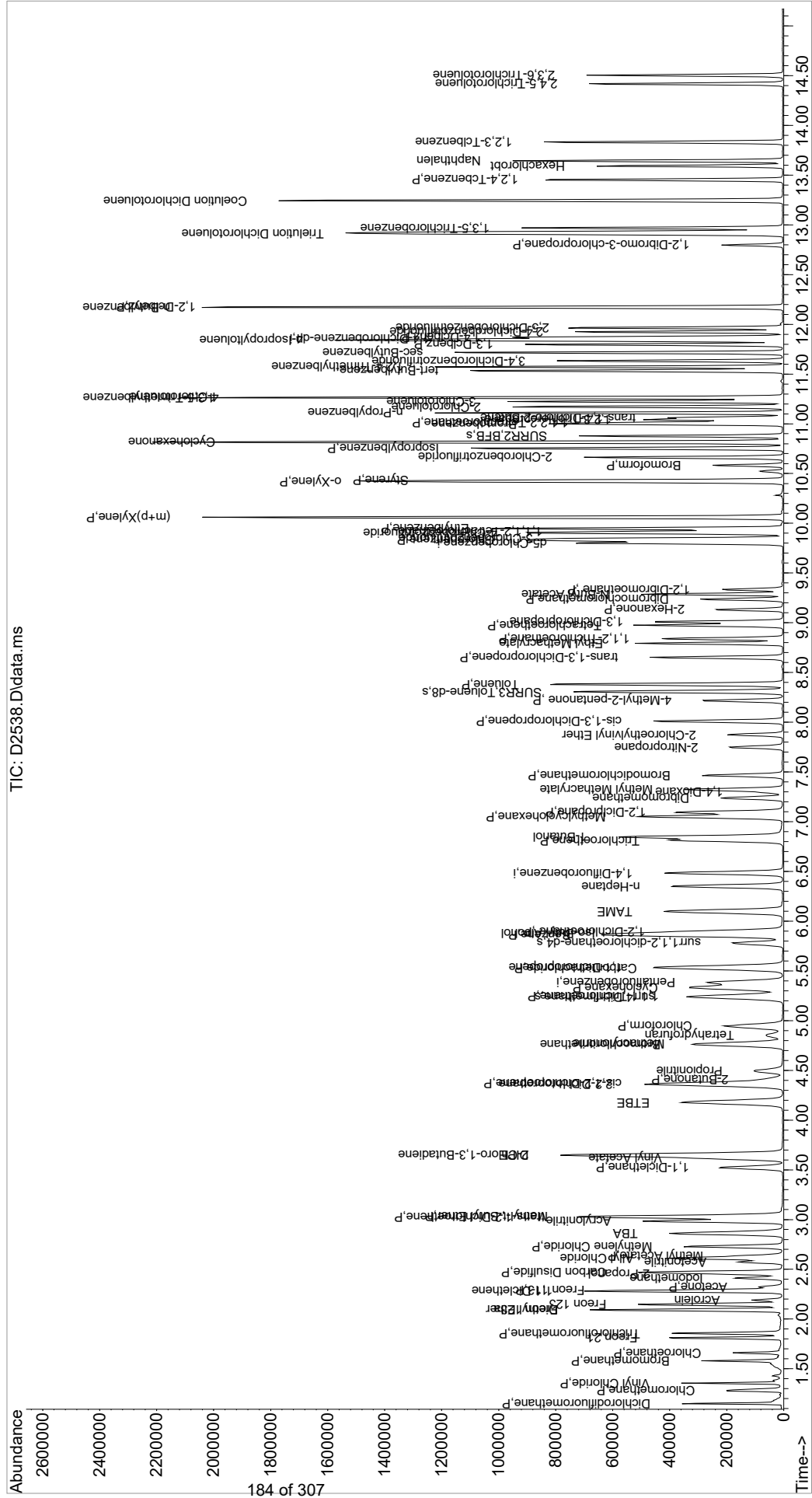
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	265200	49.60	ug/L	99
105) 1,4-Dclbenz	11.871	146	268870	47.97	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	137175	50.95	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	152921	51.26	ug/L	99
108) n-Butylbenzene	12.170	91	510722	52.20	ug/L	99
109) 1,2-Dclbenz	12.176	146	261907	49.91	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	40393	51.39	ug/L	91
111) Trielution Dichlorotol...	12.914	125	738570	155.40	ug/L	91
112) 1,3,5-Trichlorobenzene	12.969	180	202232	50.03	ug/L	99
113) Coelution Dichlorotoluene	13.243	125	532367	103.96	ug/L	97
114) 1,2,4-Tcbenzene	13.456	180	204038	52.29	ug/L	96
115) Hexachlorobt	13.591	225	91947	50.04	ug/L	95
116) Naphthalen	13.645	128	542338	53.13	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	193171	50.47	ug/L	95
118) 2,4,5-Trichlorotoluene	14.420	159	135431	53.86	ug/L	96
119) 2,3,6-Trichlorotoluene	14.505	159	120896	51.23	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\041118\  
 Data File : D2538.D  
 Acq On : 11 Apr 2018 5:32 pm  
 Operator : D.LIPANI  
 Sample : ICV  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 18:09:39 2018  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration



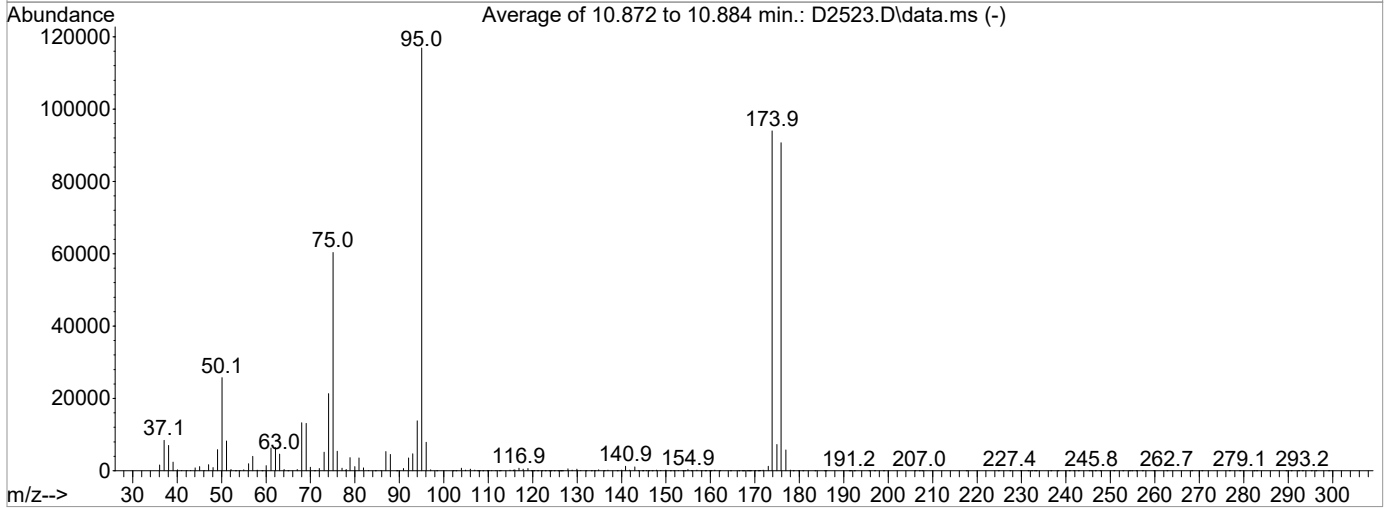
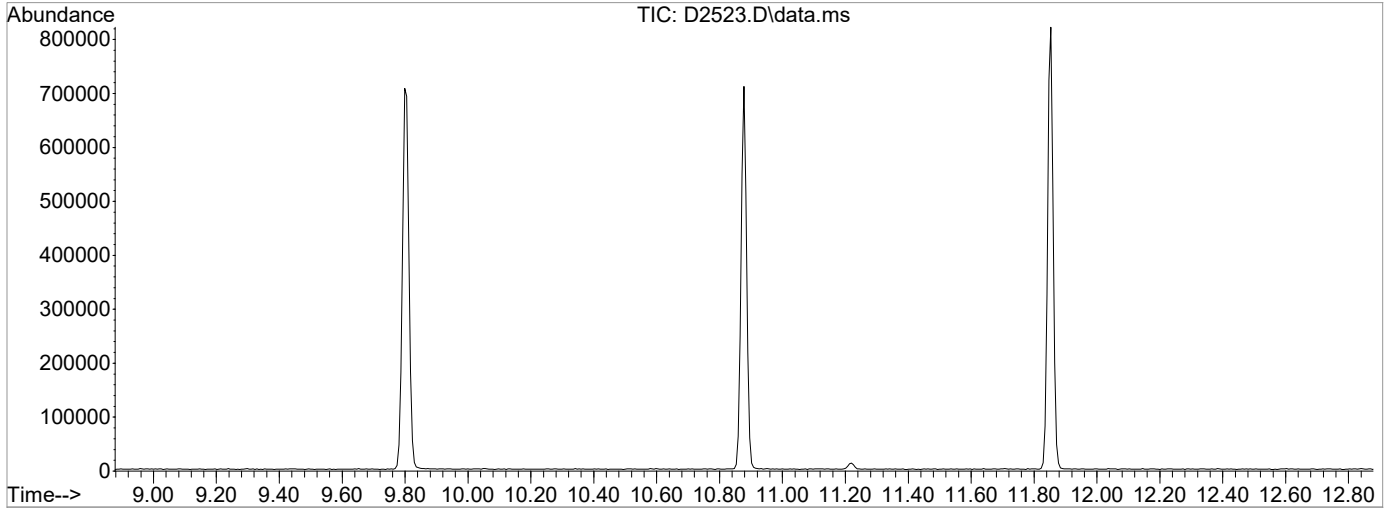
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1st DL 04/12/18  
 2nd FU 04/12/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2523.D  
Acq On : 11 Apr 2018 9:27 am  
Operator : D.LIPANI  
Sample : TUNE CHECK Inst : MSVOA10  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Title : MS#10 - 8260B WATERS 5.0mL Purge  
Last Update : Wed Apr 11 16:43:38 2018



AutoFind: Scans 1605, 1606, 1607; Background Corrected with Scan 1597

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	25792	PASS
75	95	30	60	51.6	60363	PASS
95	95	100	100	100.0	116891	PASS
96	95	5	9	6.7	7843	PASS
173	174	0.00	2	1.4	1273	PASS
174	95	50	120	80.4	93979	PASS
175	174	5	9	7.7	7271	PASS
176	174	95	101	96.5	90715	PASS
177	176	5	9	6.3	5750	PASS

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2525.D  
 Acq On : 11 Apr 2018 10:31 am  
 Operator : D.LIPANI  
 Sample : INST BLK Inst : MSVOA10  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 12 09:45:57 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:43:38 2018  
 Response via : Initial Calibration

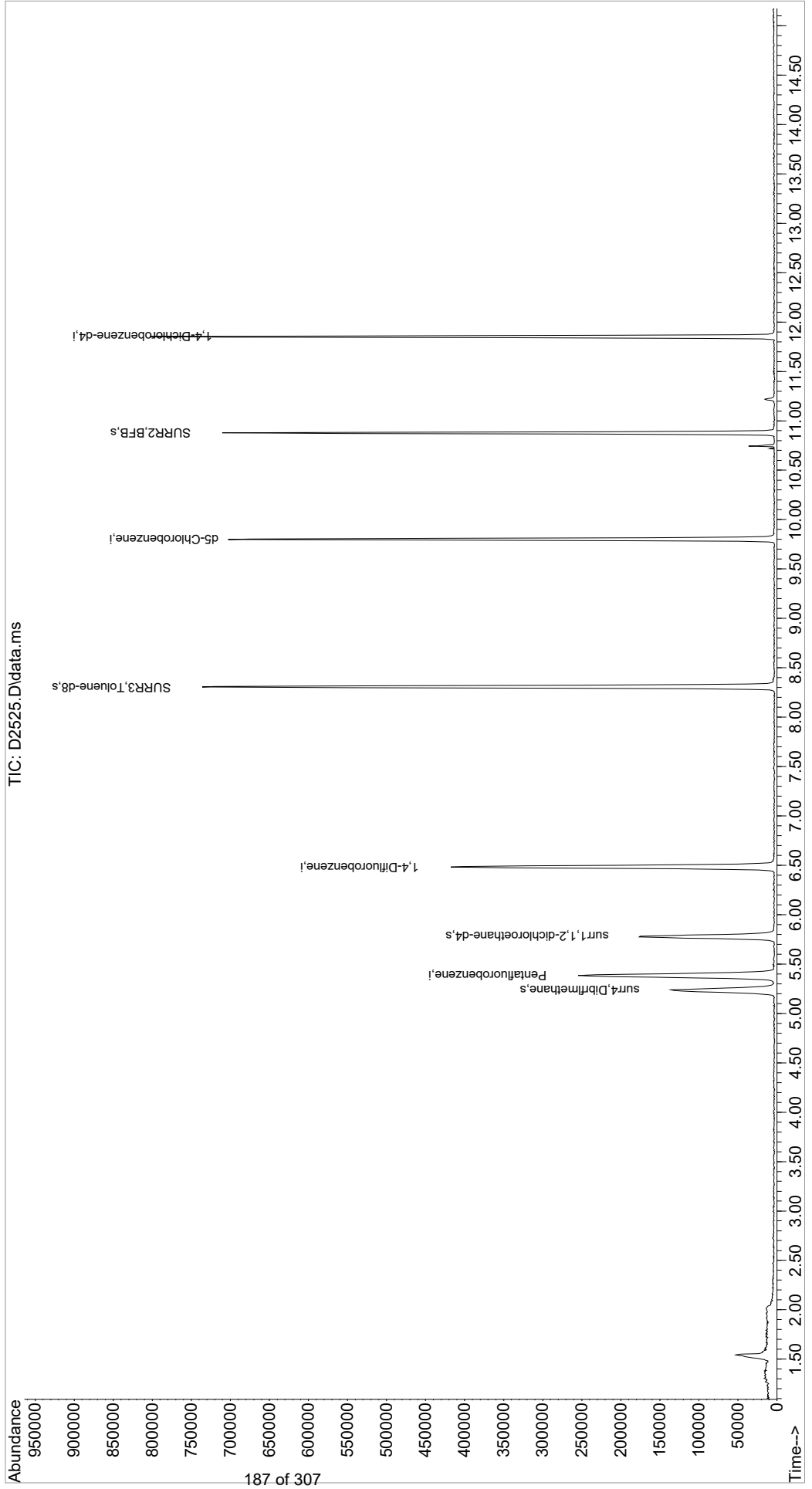
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	230629	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	348158	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	295156	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	151786	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.239	113	110045	49.84	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.68%	
46) surr1,1,2-dichloroetha...	5.781	65	147294	50.34	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	100.68%	
64) SURR3,Toluene-d8	8.305	98	441188	49.84	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	99.68%	
69) SURR2,BFB	10.878	95	172455	49.63	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.26%	
Target Compounds						
5) Bromomethane	1.575	94	464	Below Cal	Qvalue #	36

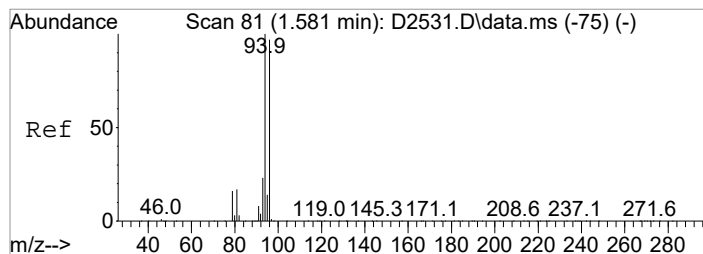
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2525.D  
Acq On : 11 Apr 2018 10:31 am  
Operator : D.LIPANI  
Sample : INST BLK  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

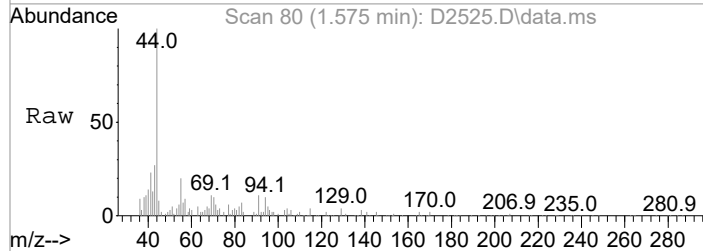
Inst : MSVOA10

Quant Time: Apr 12 09:45:57 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 16:43:38 2018  
Response via : Initial Calibration

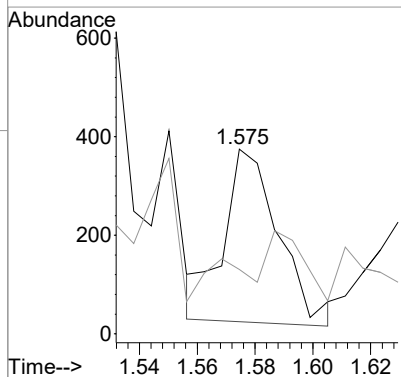
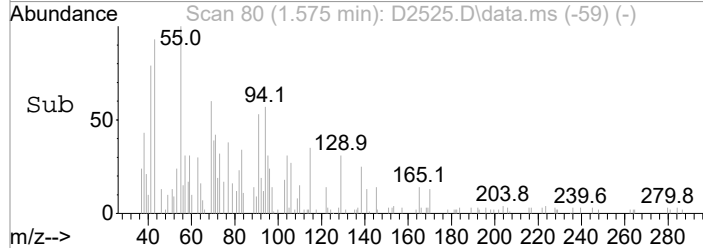




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.575 min Scan# 80  
Delta R.T. -0.011 min  
Lab File: D2525.D  
Acq: 11 Apr 2018 10:31 am



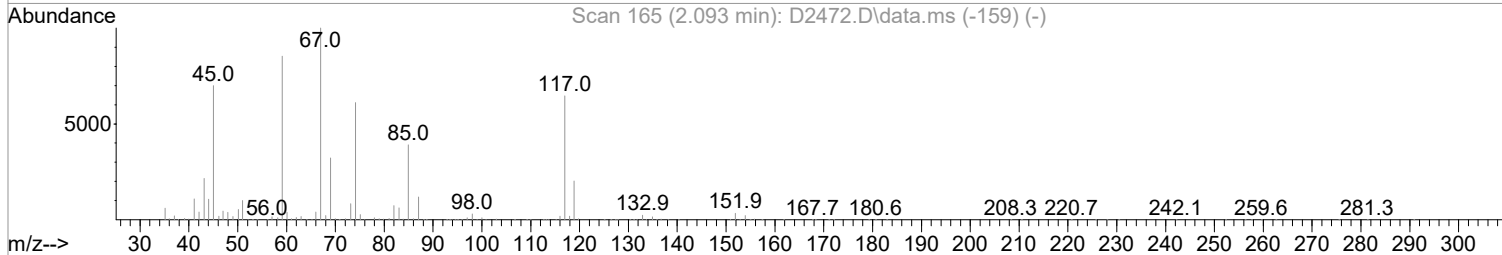
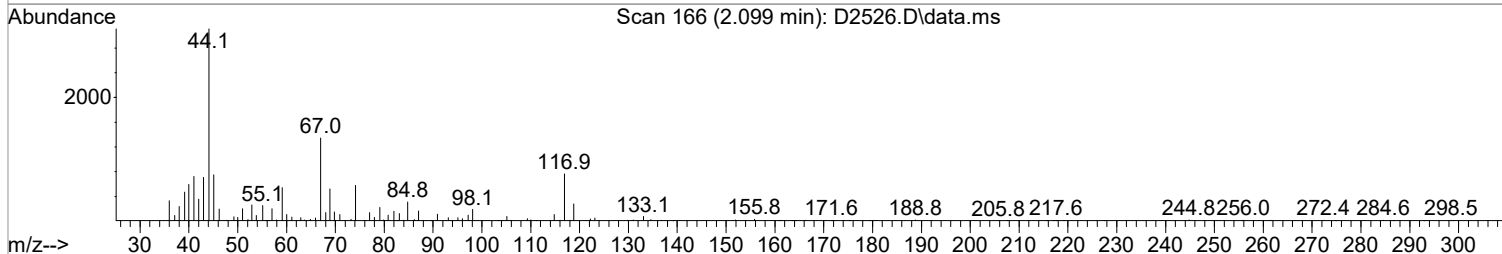
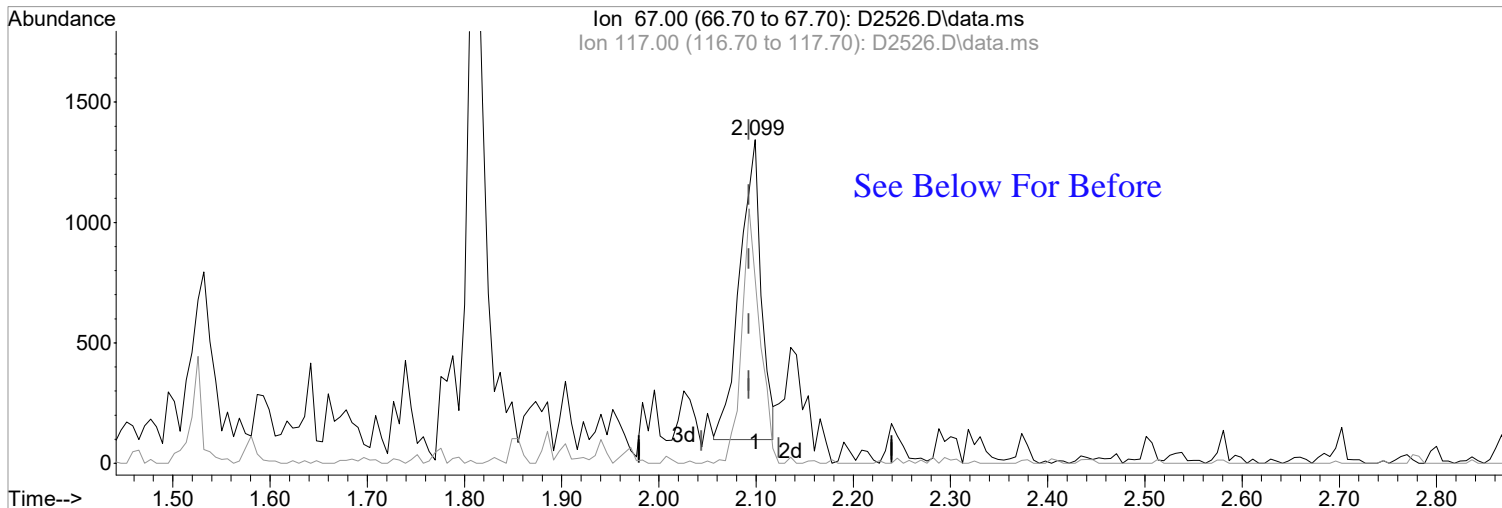
Tgt Ion: 94 Resp: 464  
Ion Ratio Lower Upper  
94 100  
96 34.9 77.7 117.7#



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(10) Freon 123a  
2.099min (+0.006) 0.66 ug/L m  
response 1912

Manual Integration:

After

Poor integration.

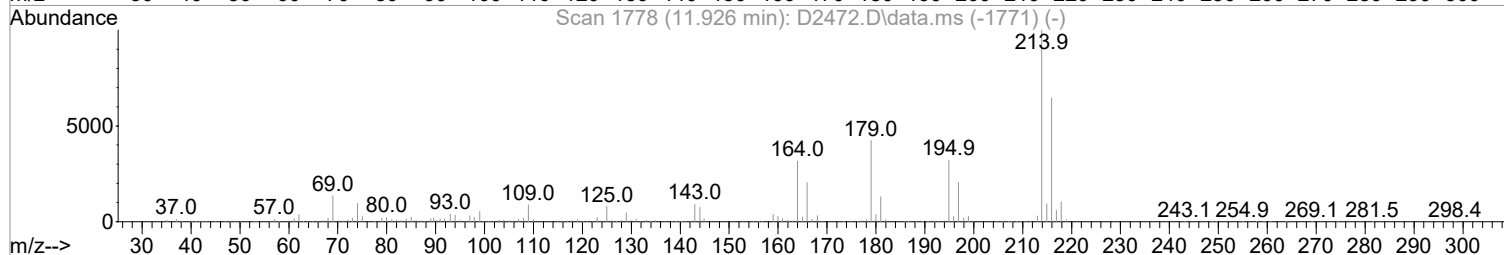
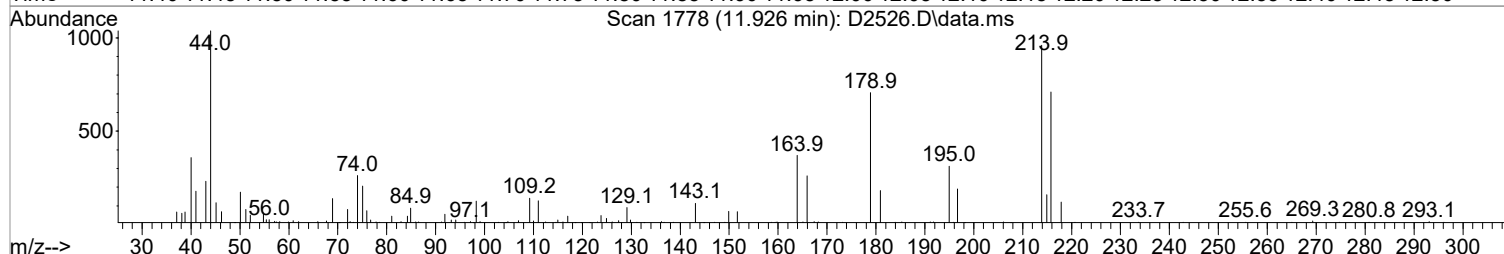
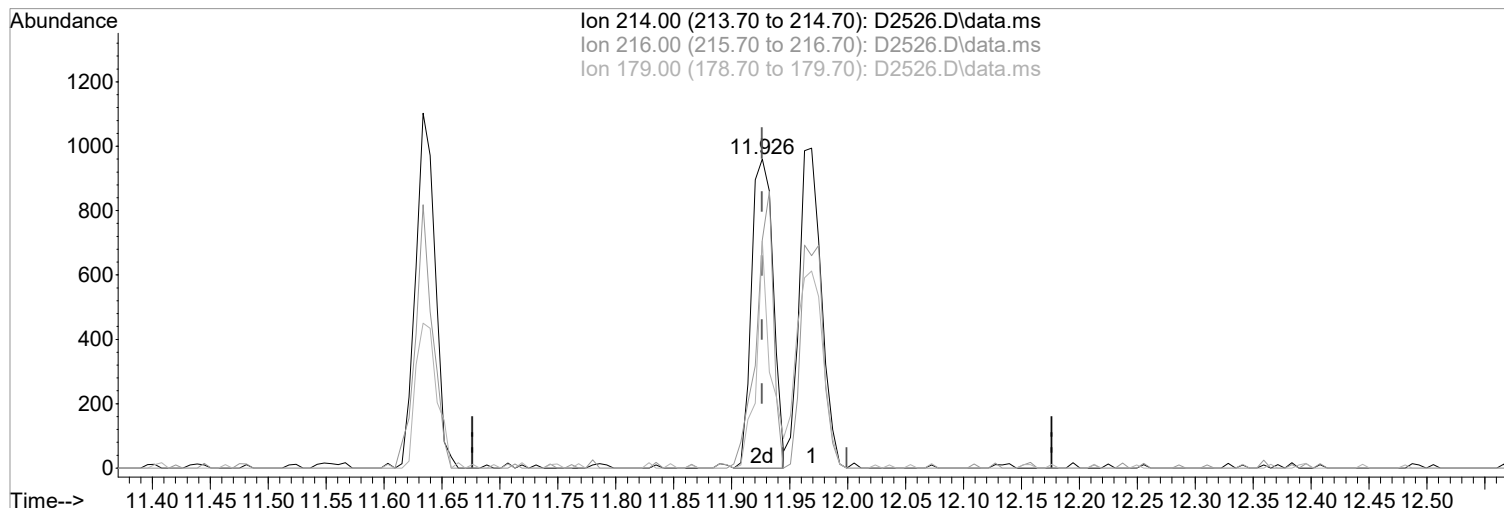
04/11/18

Ion	Exp%	Act%
67.00	100	100
117.00	64.70	56.89
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(106) 2,4-Dichlorobenzotrifluoride

11.926min (+0.000) 0.49 ug/L m  
 response 1246

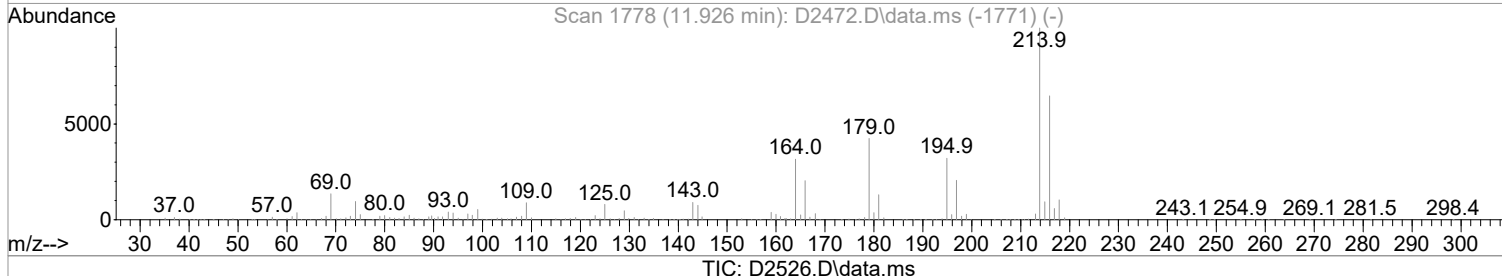
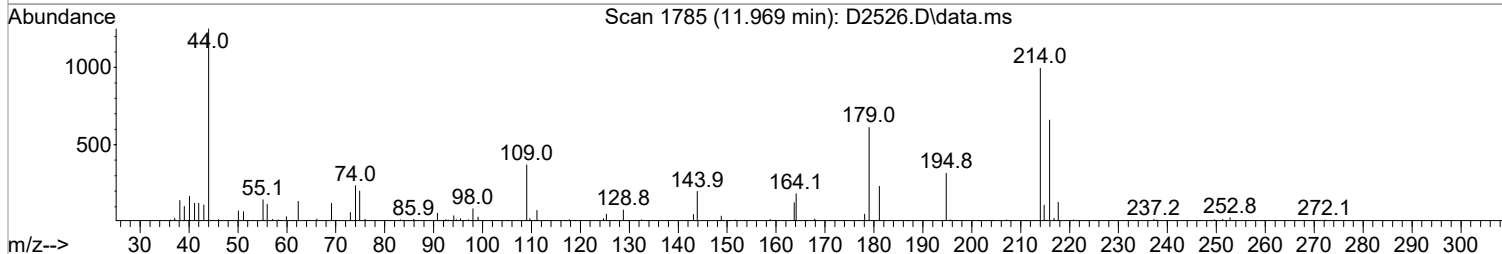
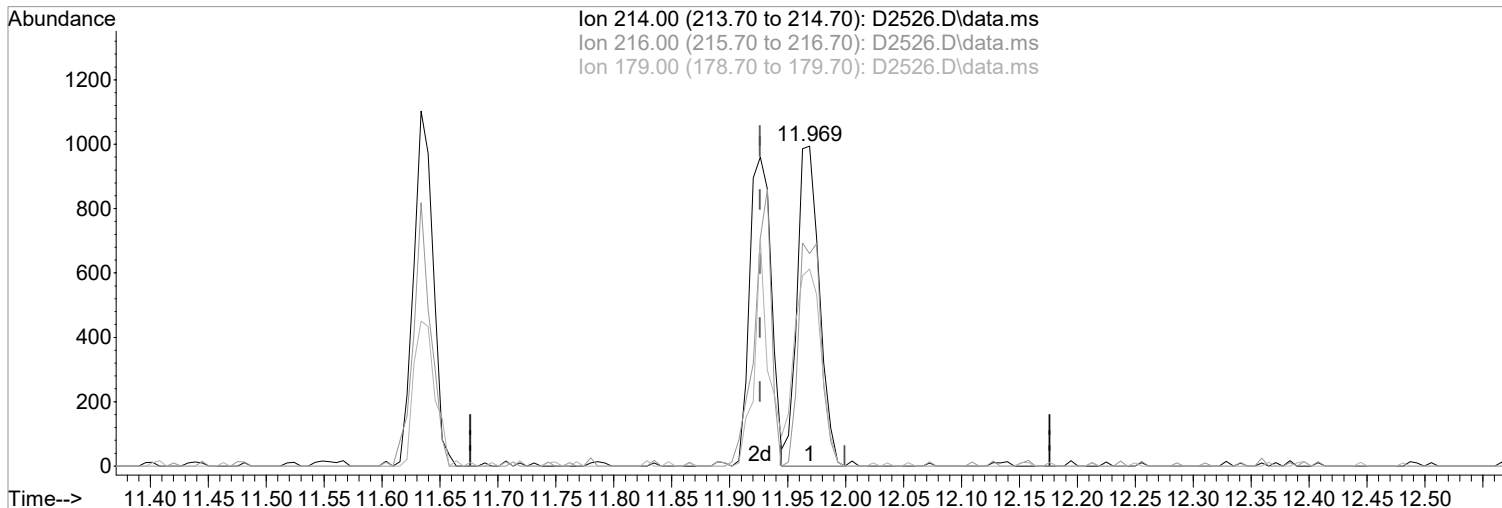
Ion	Exp%	Act%
214.00	100	100
216.00	64.70	73.85
179.00	42.40	73.54#
0.00	0.00	0.00

Manual Integration:  
 After  
 Wrong peak selected.  
 04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(106) 2,4-Dichlorobenzotrifluoride

Manual Integration:

11.969min (+0.043) 0.52 ug/L

Before

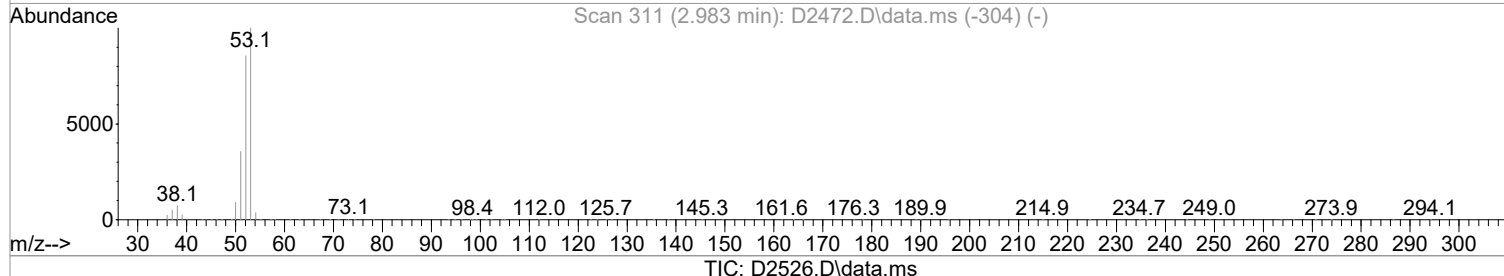
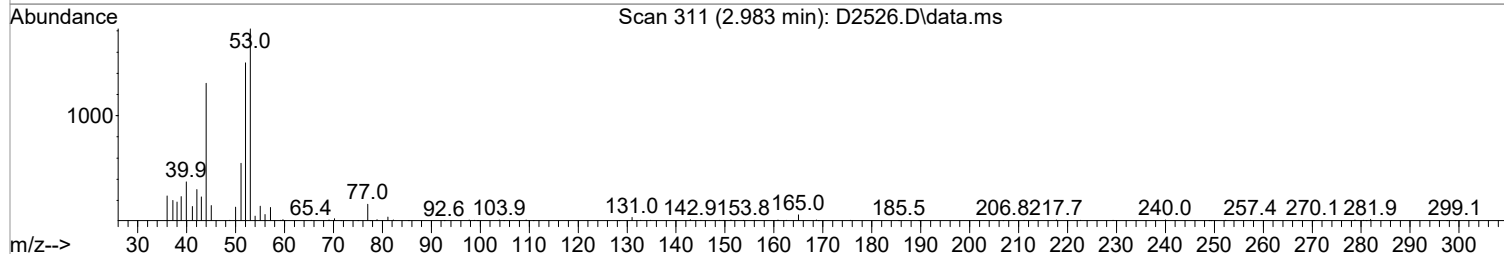
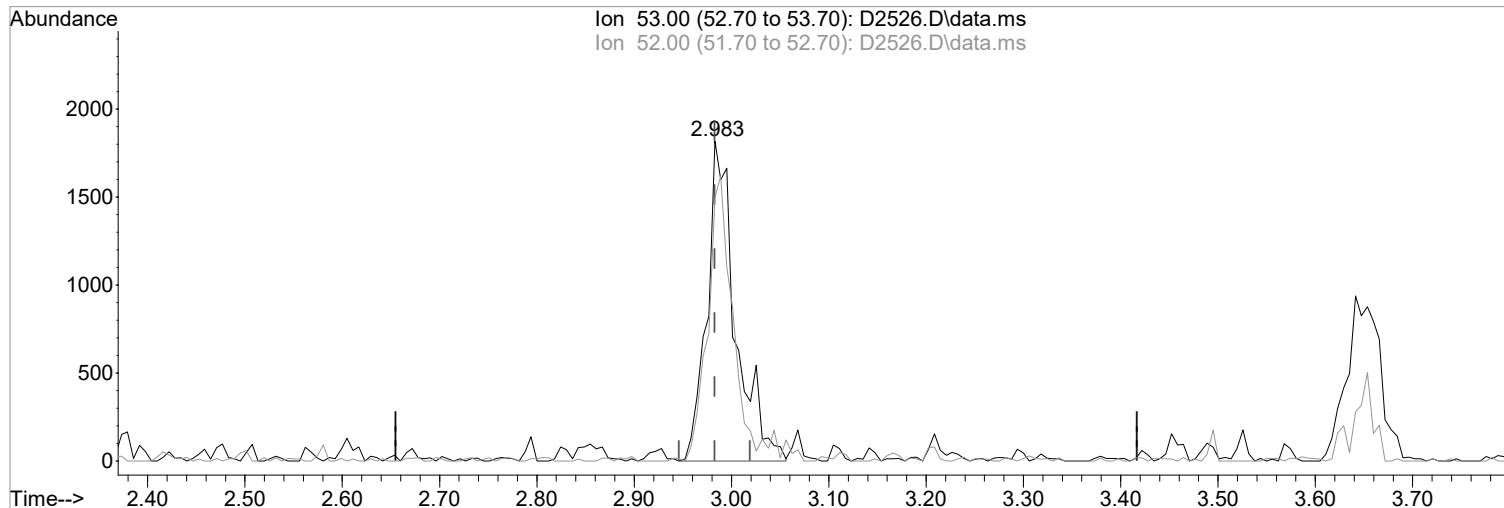
response 1329

Ion	Exp%	Act%
214.00	100	100
216.00	64.70	66.40
179.00	42.40	61.57
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(24) Acrylonitrile  
 2.983min (+0.000) 2.89 ug/L m  
 response 3715

Manual Integration:

After

Poor integration.

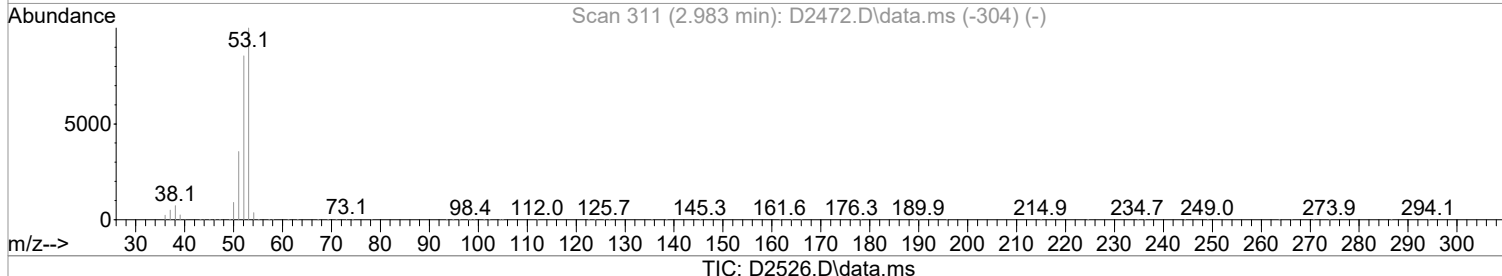
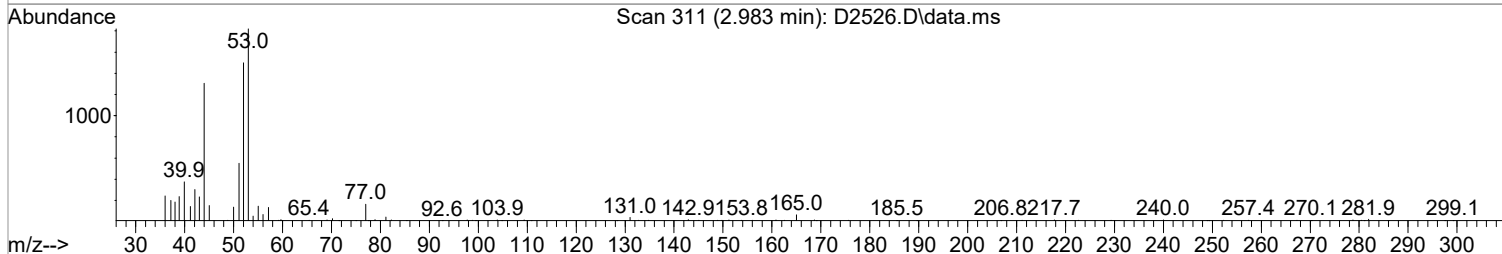
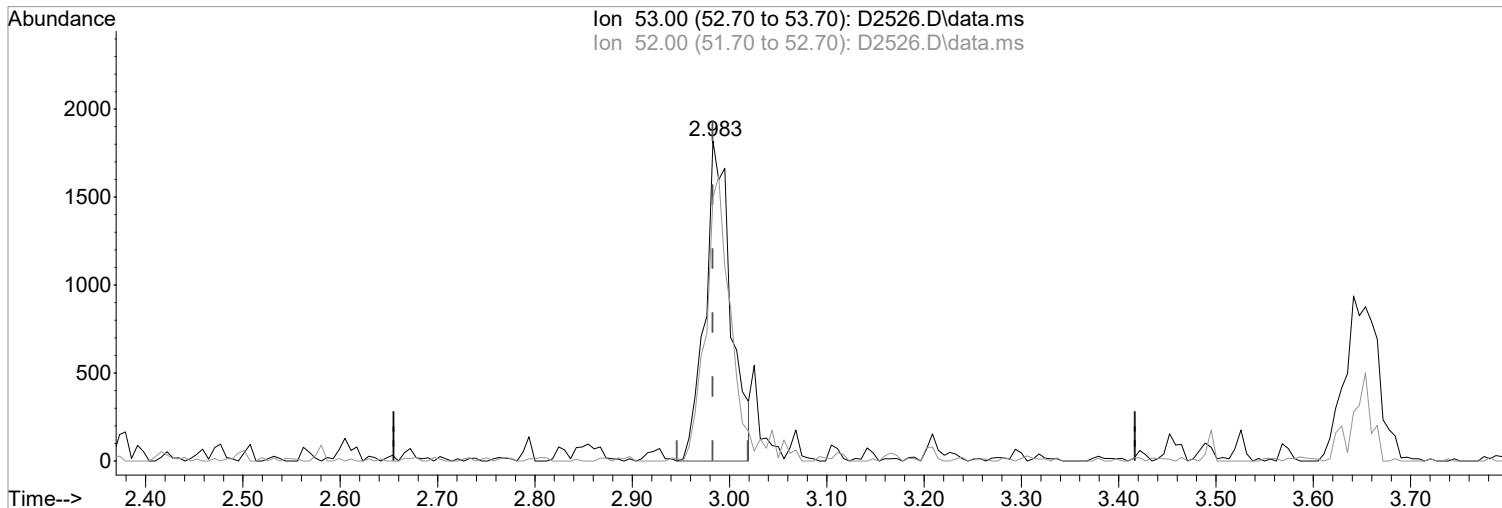
04/11/18

Ion	Exp%	Act%
53.00	100	100
52.00	85.50	82.41
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(24) Acrylonitrile  
2.983min (+0.000) 2.61 ug/L  
response 3358

Manual Integration:  
Before

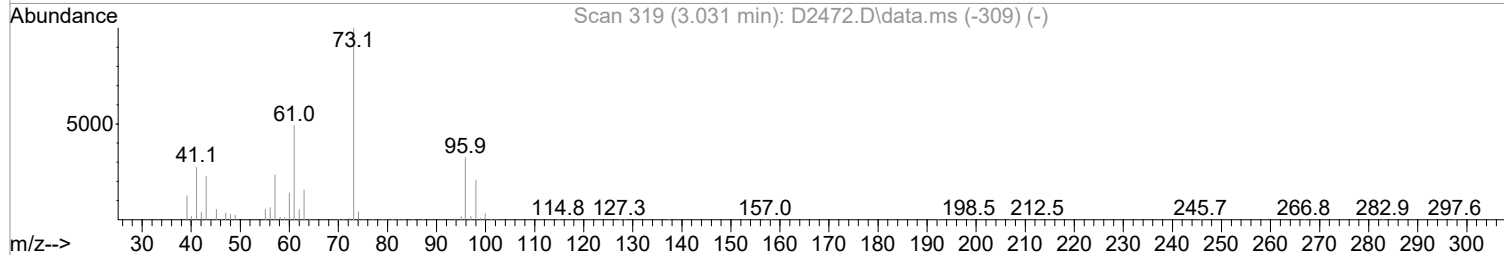
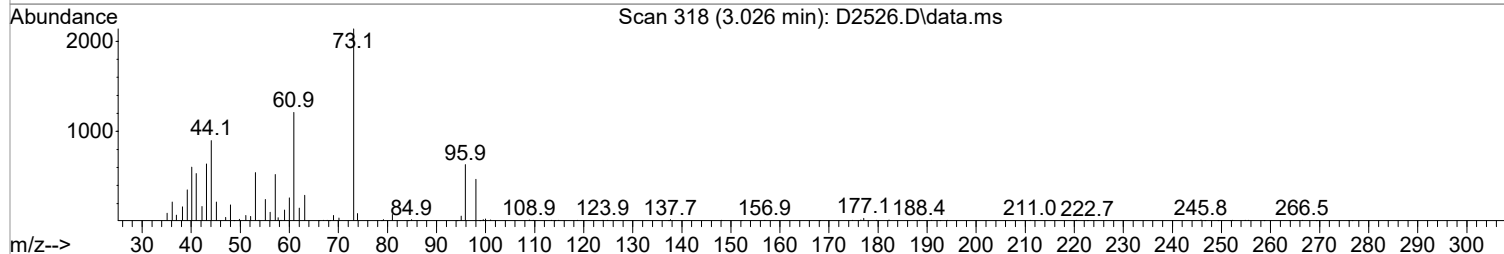
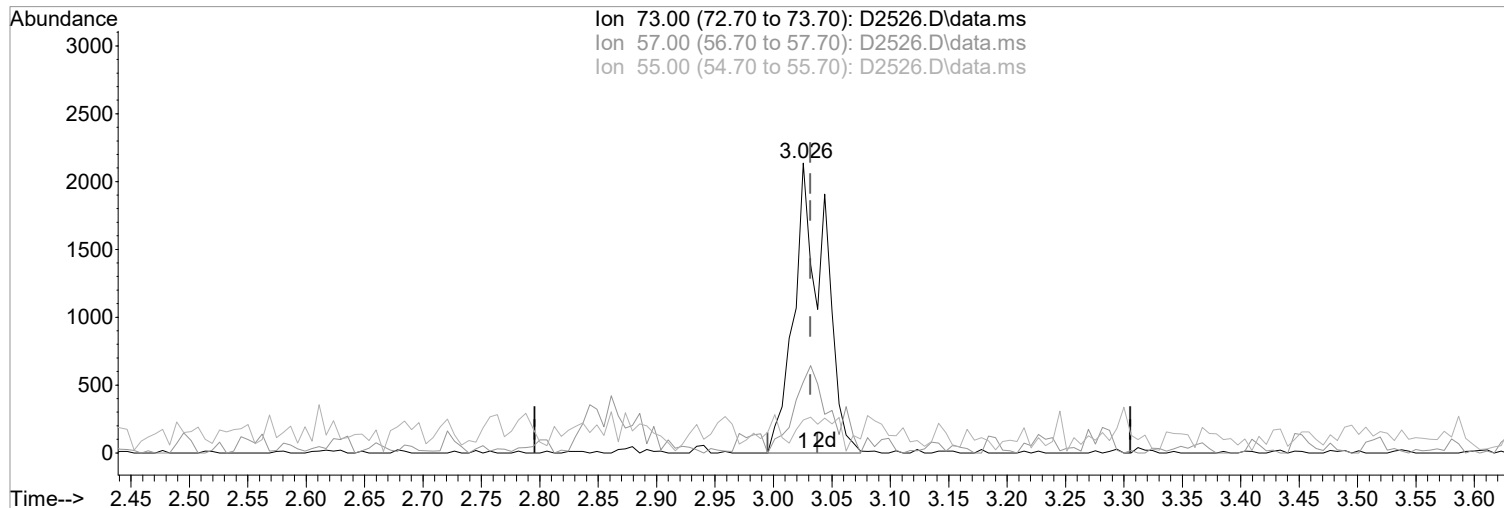
Ion	Exp%	Act%
53.00	100	100
52.00	85.50	82.41
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(25) Methyl-t-Butyl Ether (P)

3.026min (-0.006) 0.56 ug/L m

response 3861

Ion	Exp%	Act%
73.00	100	100
57.00	23.50	24.47
55.00	5.40	11.37
0.00	0.00	0.00

Manual Integration:

After

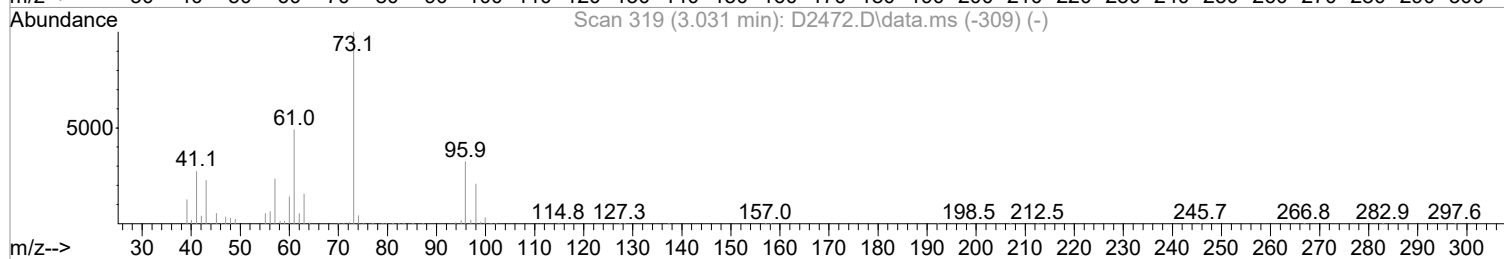
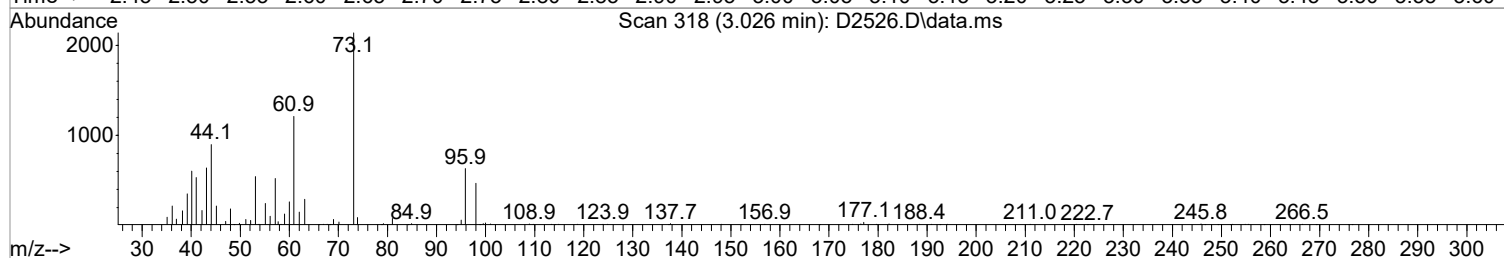
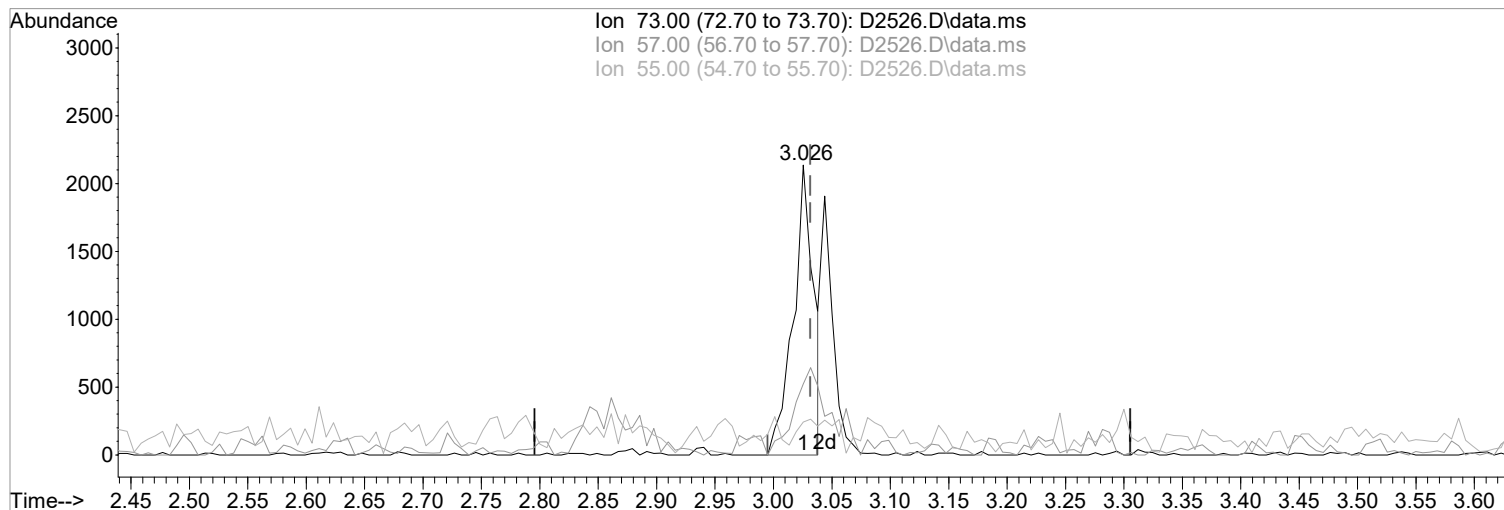
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(25) Methyl-t-Butyl Ether (P)

Manual Integration:

3.026min (-0.006) 0.38 ug/L

Before

response 2572

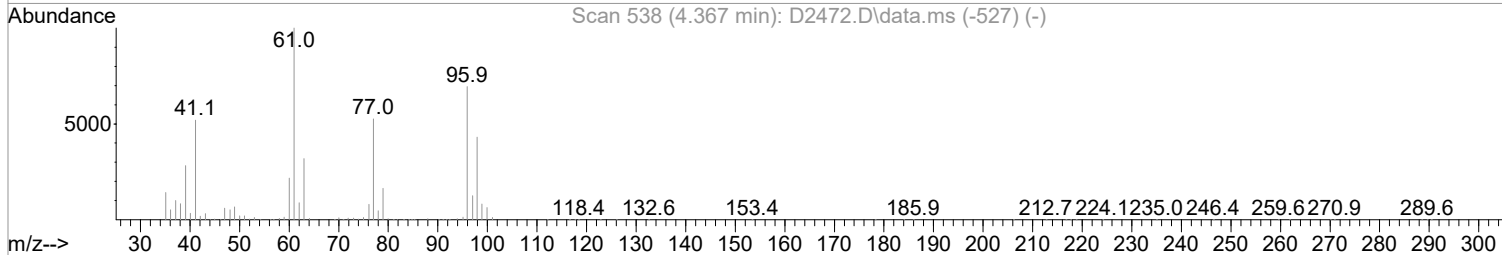
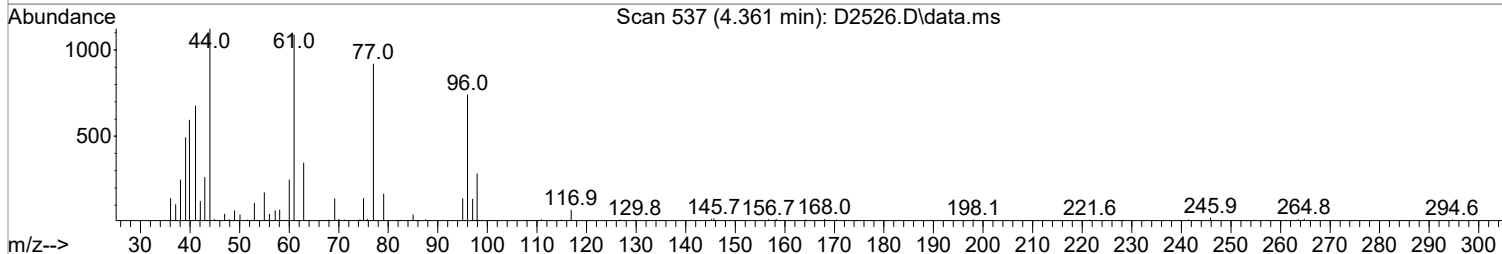
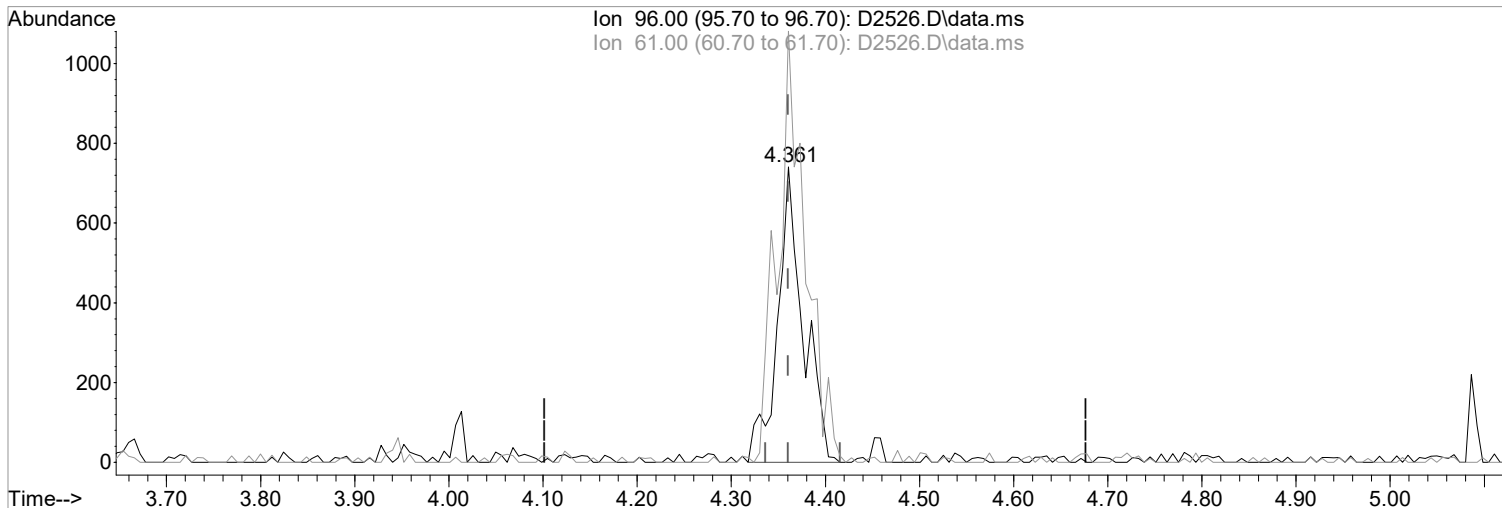
Ion	Exp%	Act%
73.00	100	100
57.00	23.50	26.39
55.00	5.40	11.37
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.361min (+0.000) 0.56 ug/L m

response 1405

Ion Exp% Act%

96.00 100 100

61.00 144.30 146.69

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

After

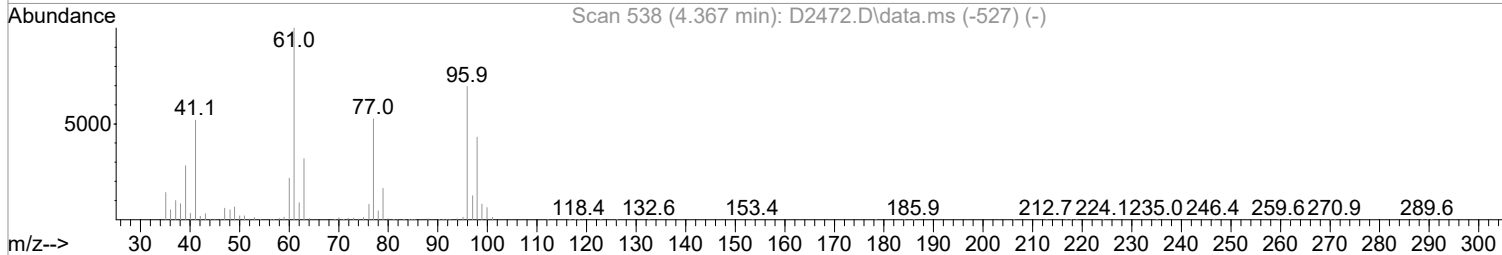
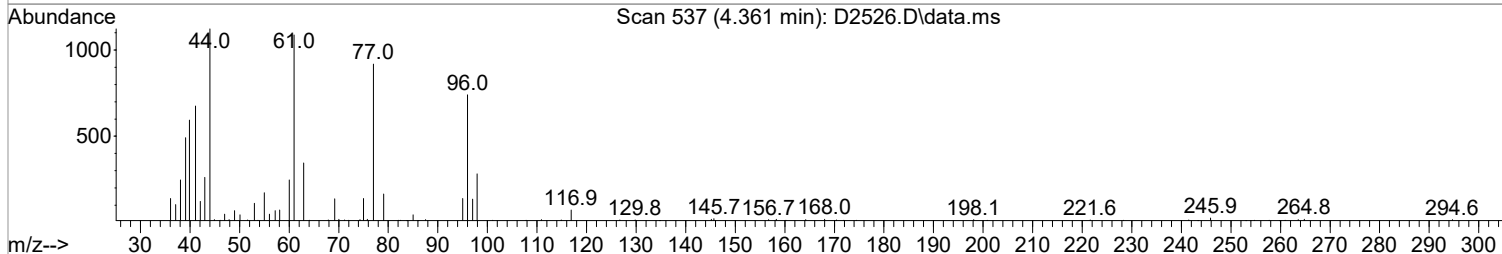
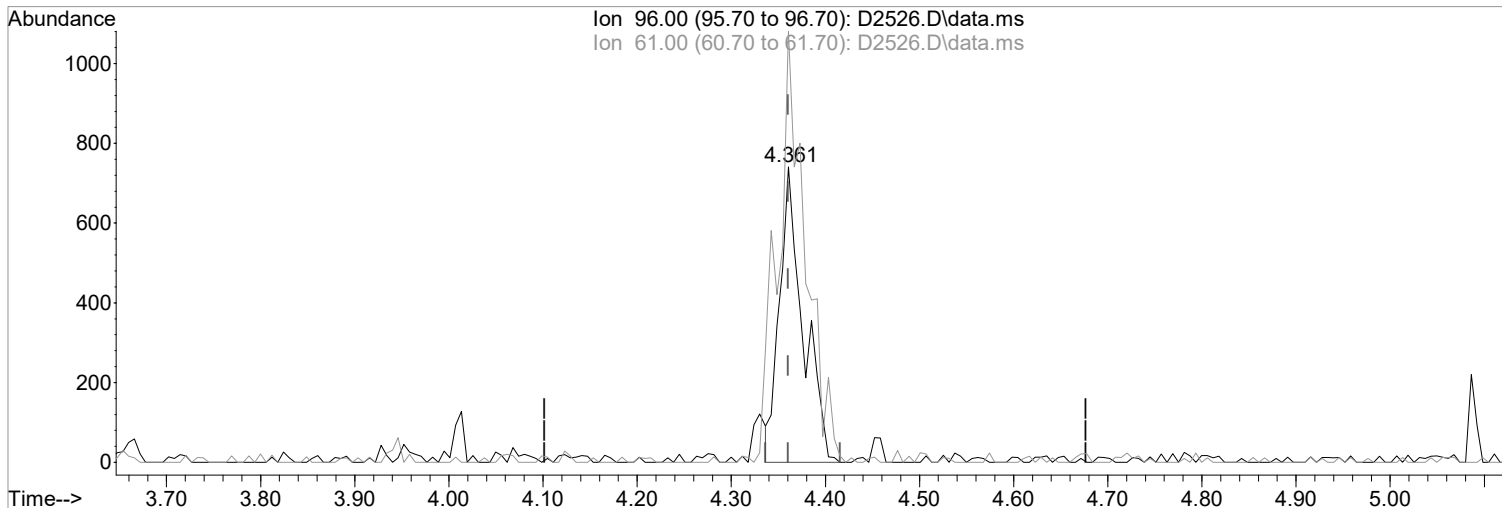
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(33) cis-1,2-Dichloroethene (P)

Manual Integration:

4.361min (+0.000) 0.52 ug/L

Before

response 1293

Ion Exp% Act%

04/11/18

96.00 100 100

61.00 144.30 146.69

0.00 0.00 0.00

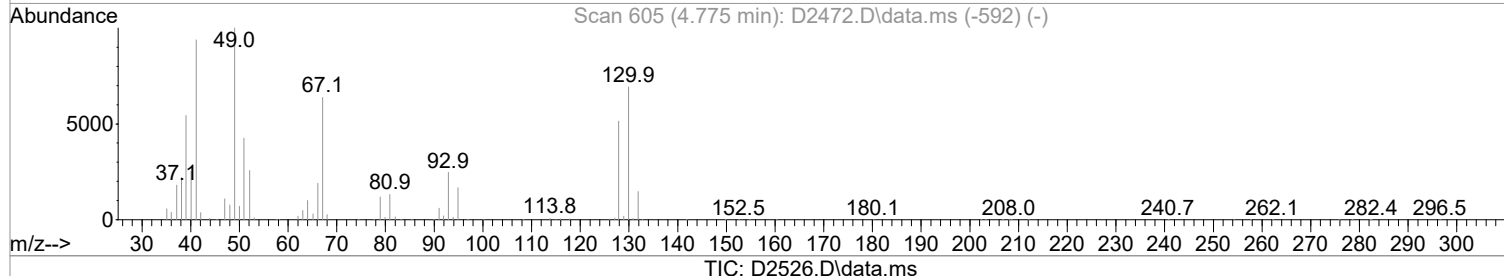
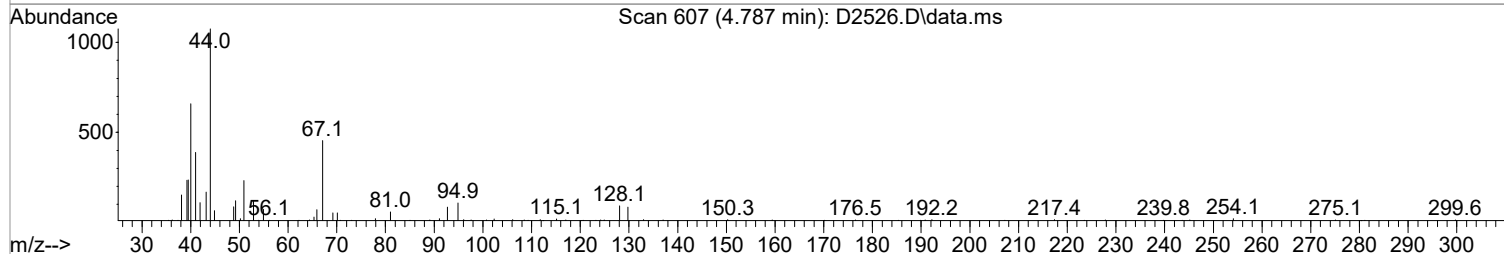
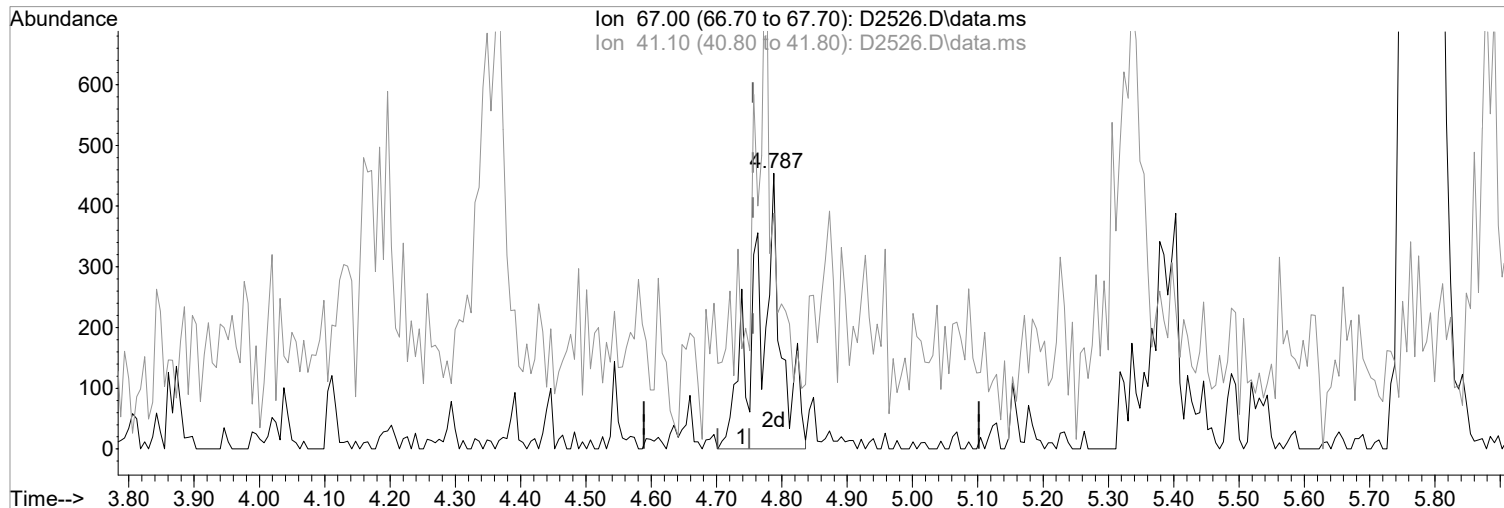
0.00 0.00 0.00



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(37) Methacrylonitrile  
4.787min (+0.031) 1.03 ug/L m  
response 1193

Manual Integration:

After

Poor integration.

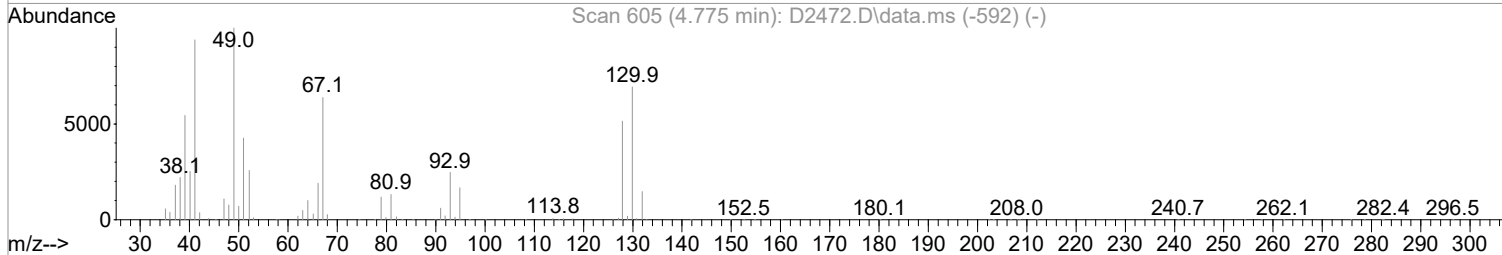
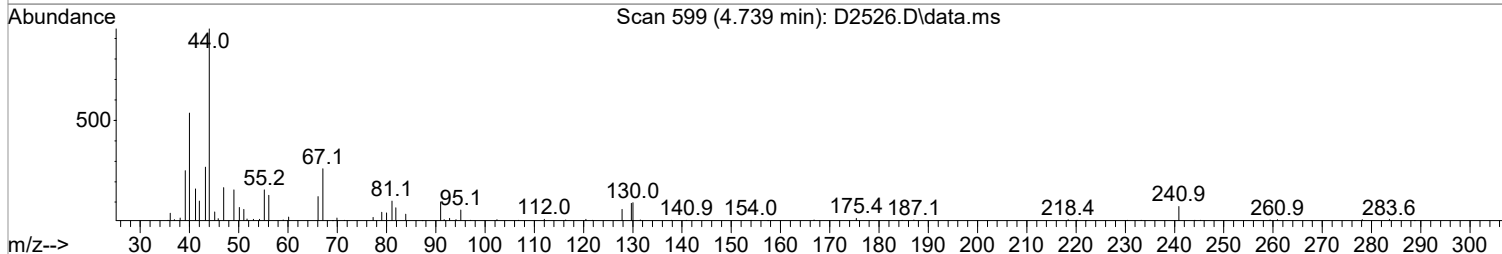
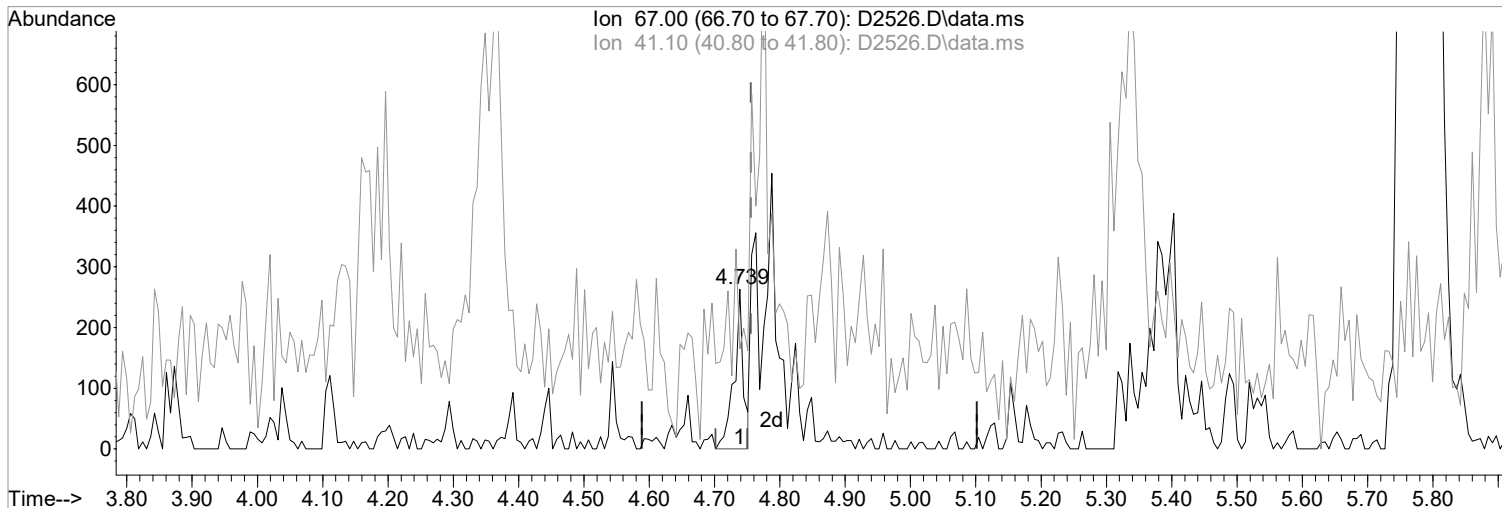
04/11/18

Ion	Exp%	Act%
67.00	100	100
41.10	147.20	85.46#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



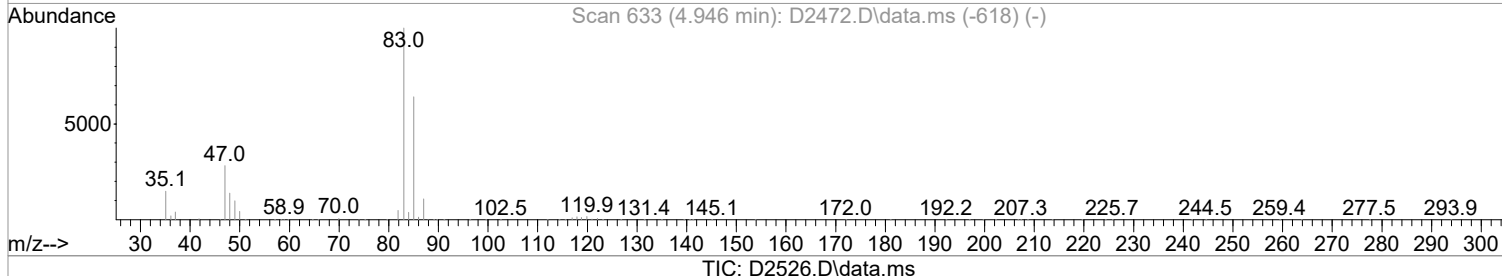
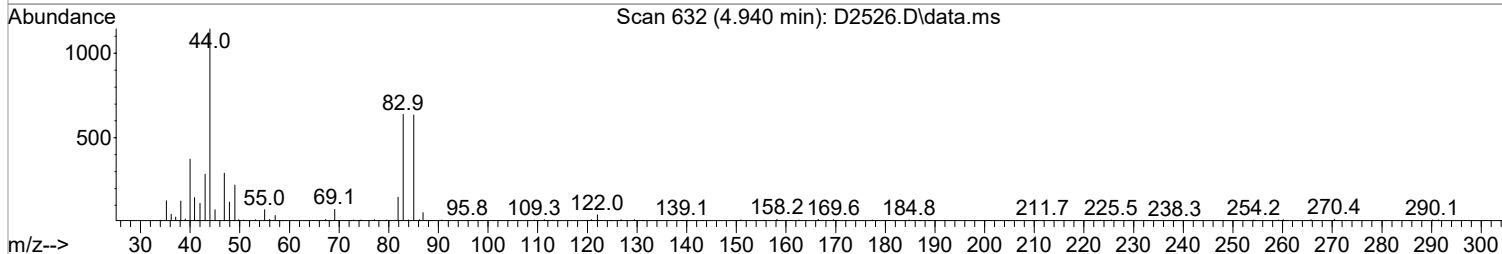
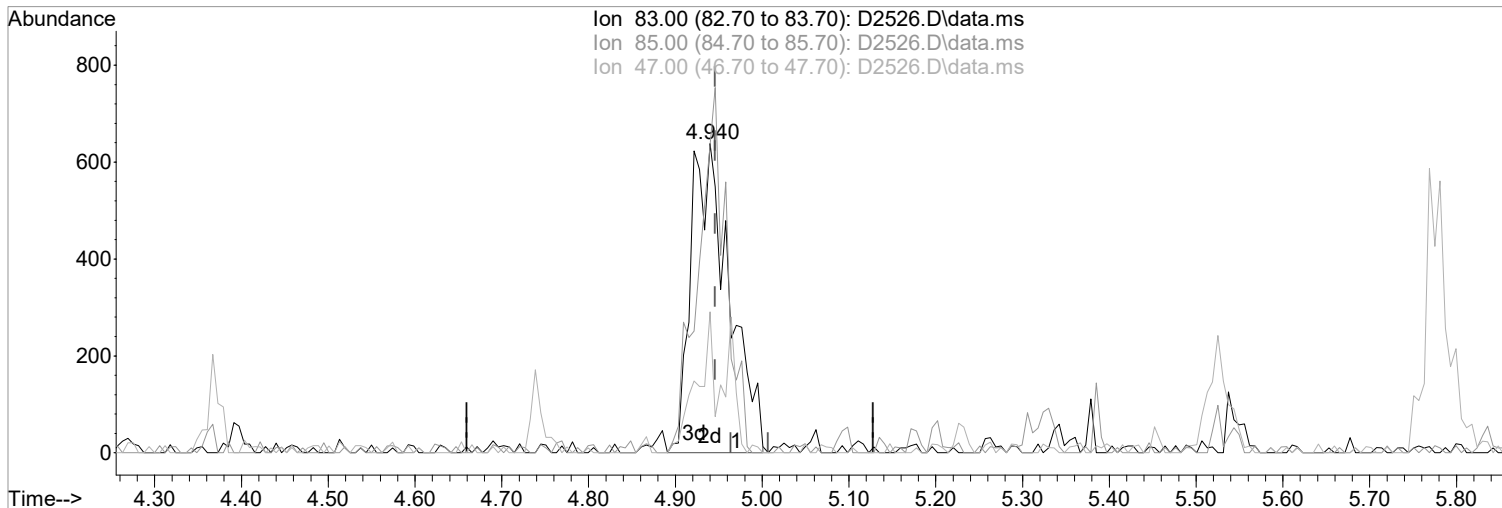
(37) Methacrylonitrile  
4.739min (-0.017) 0.22 ug/L  
response 261  
Ion Exp% Act%  
67.00 100 100  
41.10 147.20 62.74#  
0.00 0.00 0.00  
0.00 0.00 0.00

Manual Integration:  
Before  
04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(39) Chloroform (P)

4.940min (-0.006) 0.50 ug/L m  
response 1964

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	99.53#
47.00	28.30	45.61
0.00	0.00	0.00

Manual Integration:

After

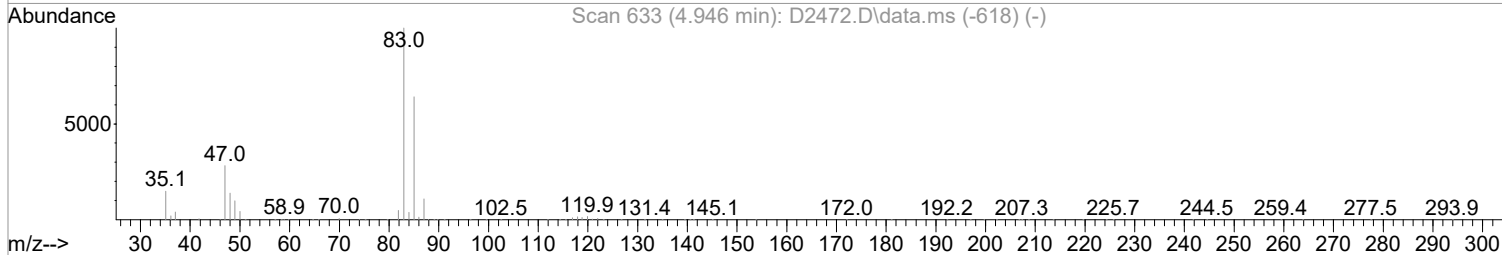
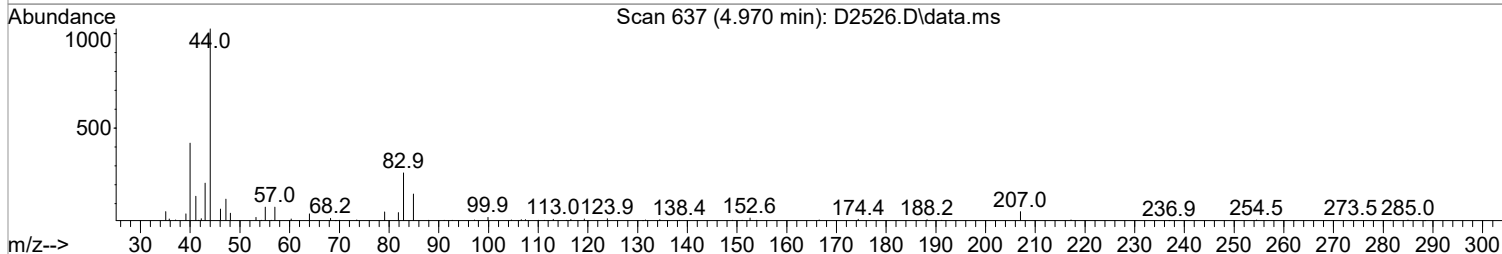
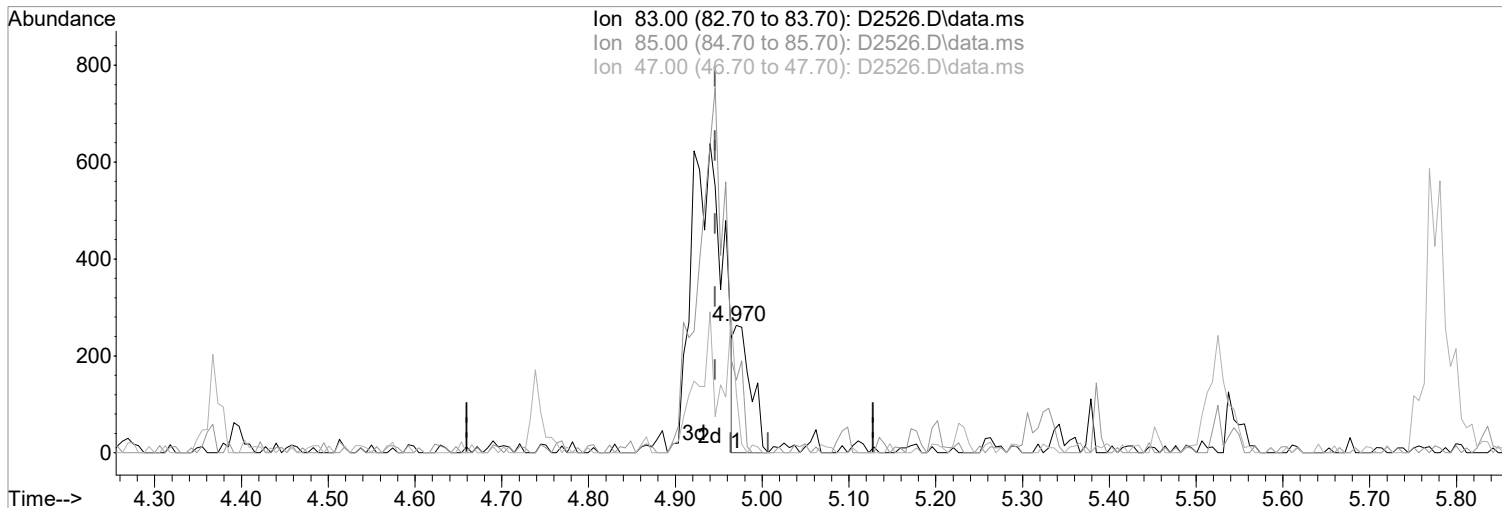
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(39) Chloroform (P)

Manual Integration:

4.970min (+0.024) 0.09 ug/L

Before

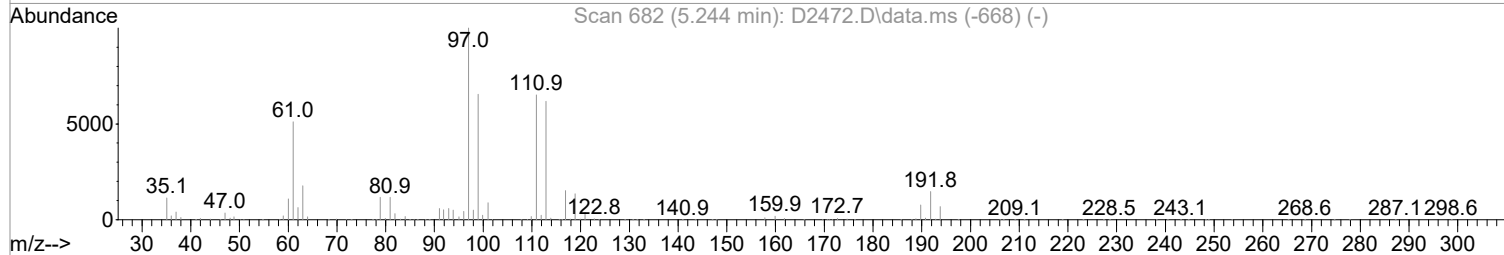
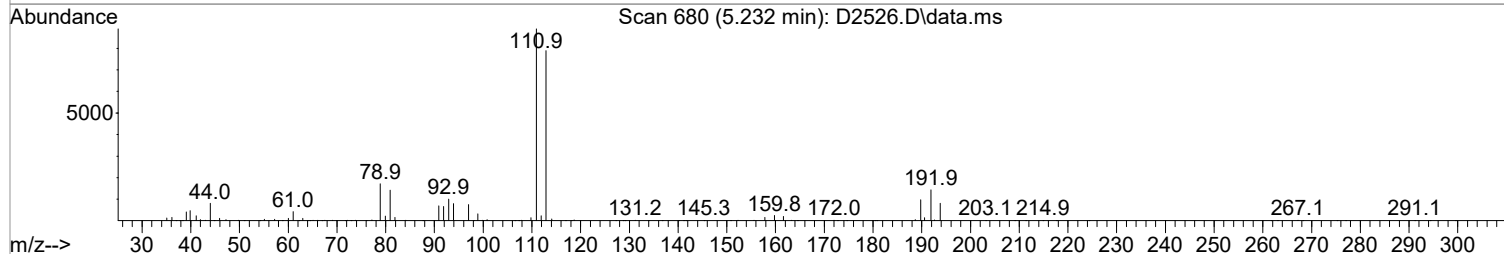
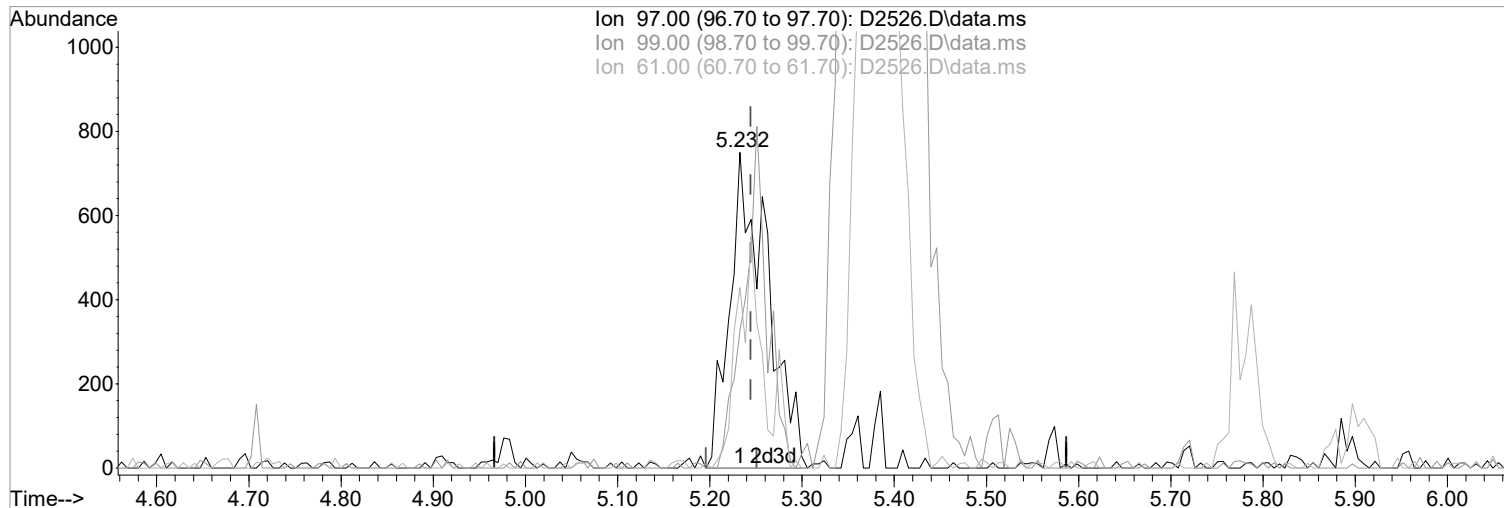
response 348

Ion	Exp%	Act%
83.00	100	100
85.00	64.10	57.03
47.00	28.30	47.15
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.232min (-0.012) 0.70 ug/L m  
response 2147

Ion	Exp%	Act%
97.00	100	100
99.00	65.40	43.33#
61.00	51.00	57.20
0.00	0.00	0.00

Manual Integration:

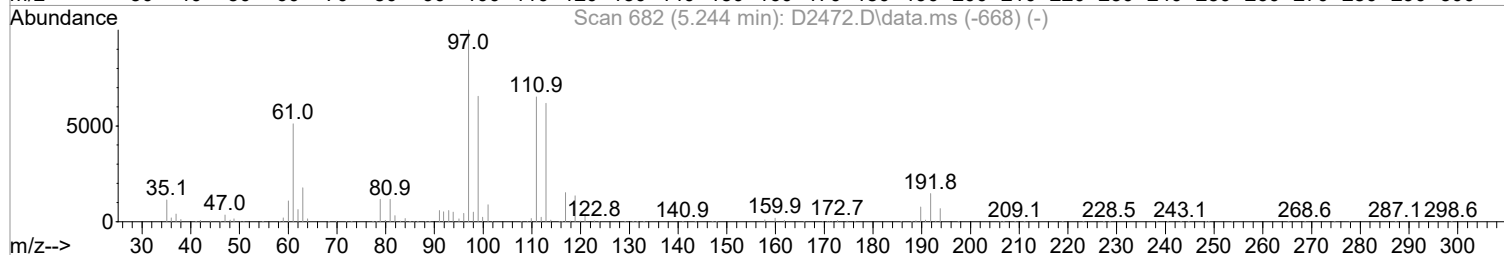
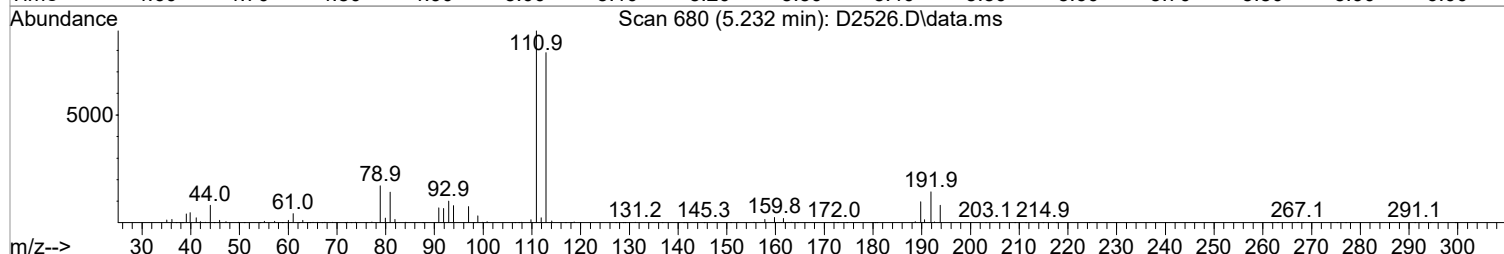
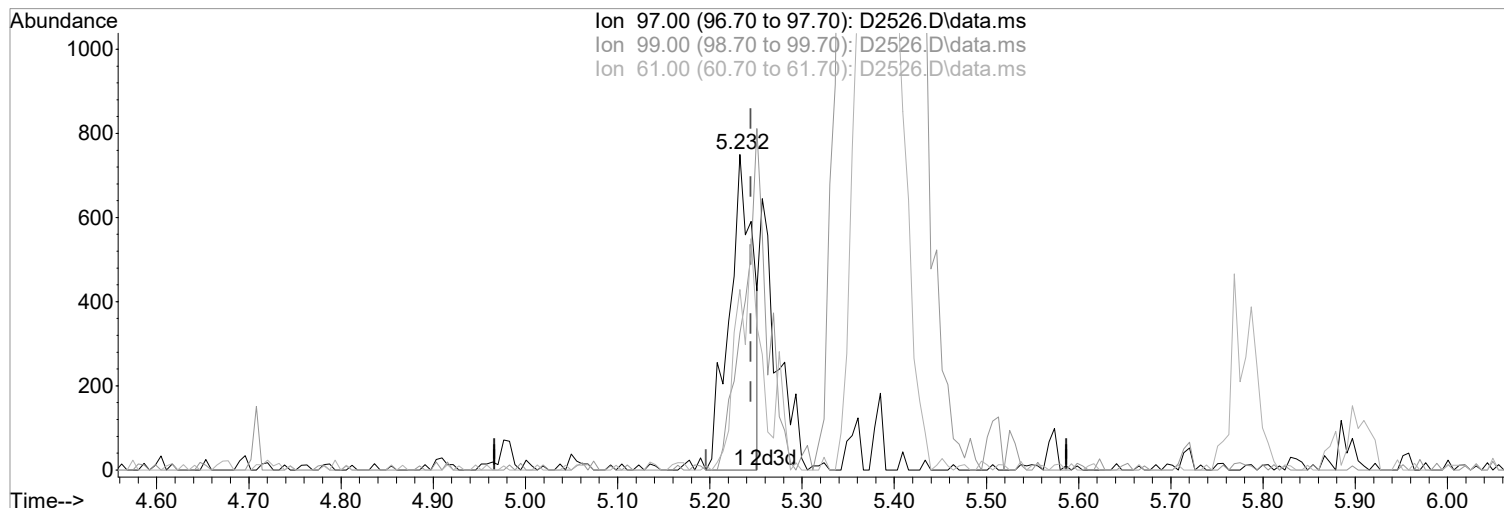
After

Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



TIC: D2526.D\data.ms

(40) 1,1,1-Trichloroethane (P)

Manual Integration:

5.232min (-0.012) 0.43 ug/L

Before

response 1326

Ion Exp% Act%

04/11/18

97.00 100 100

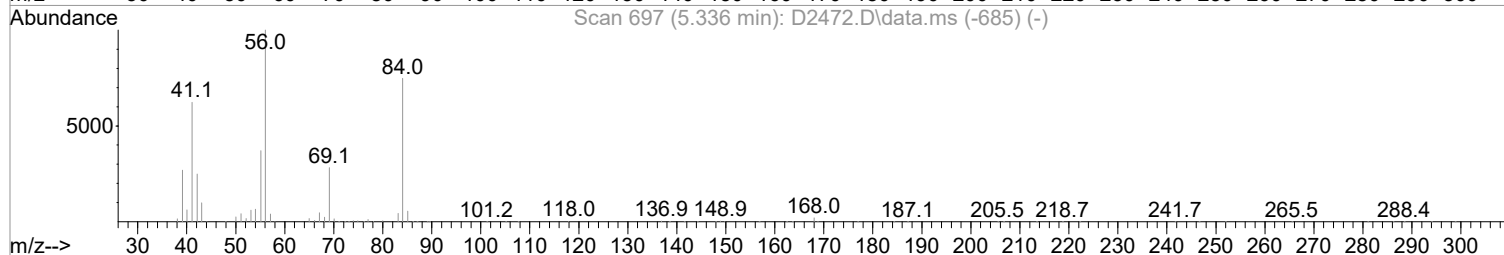
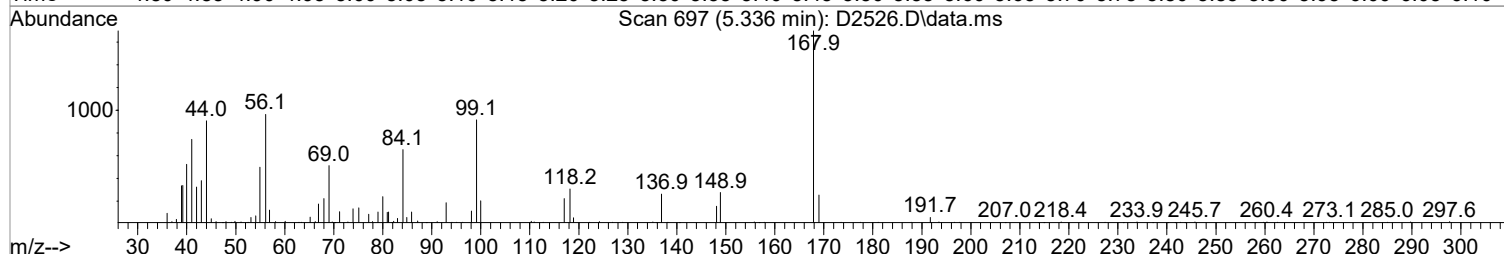
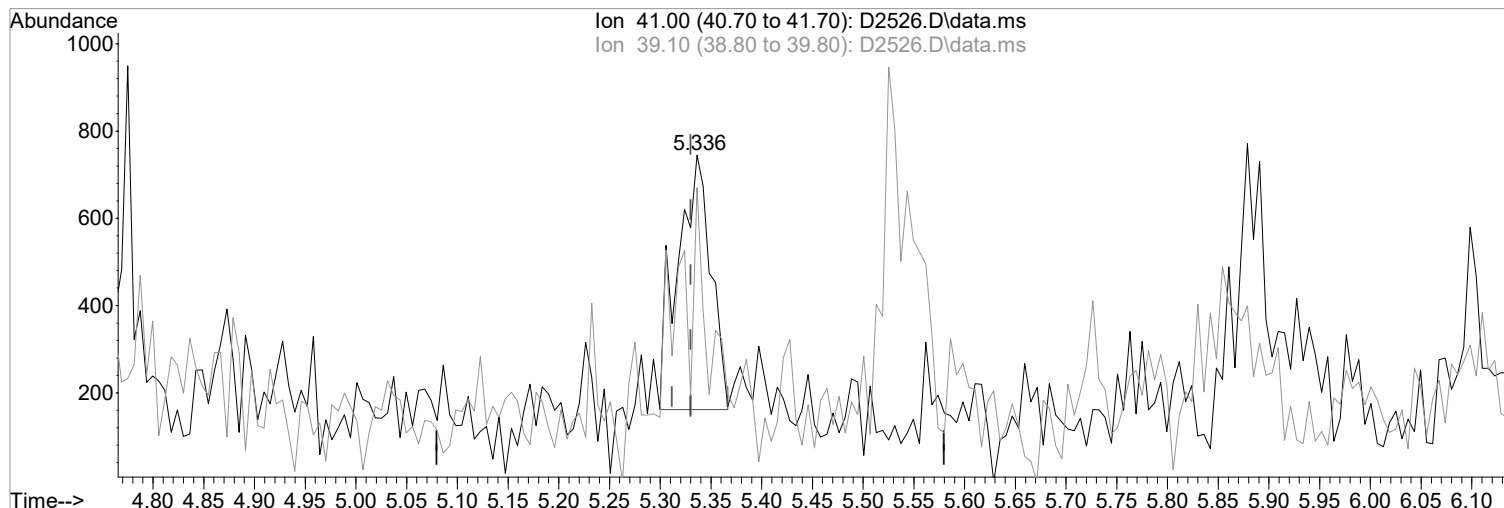
99.00 65.40 43.33#

61.00 51.00 57.20

0.00 0.00 0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(42) Cyclohexane (P)

5.336min (+0.006) 0.50 ug/L m

response 1326

Ion	Exp%	Act%
41.00	100	100
39.10	43.50	45.10
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

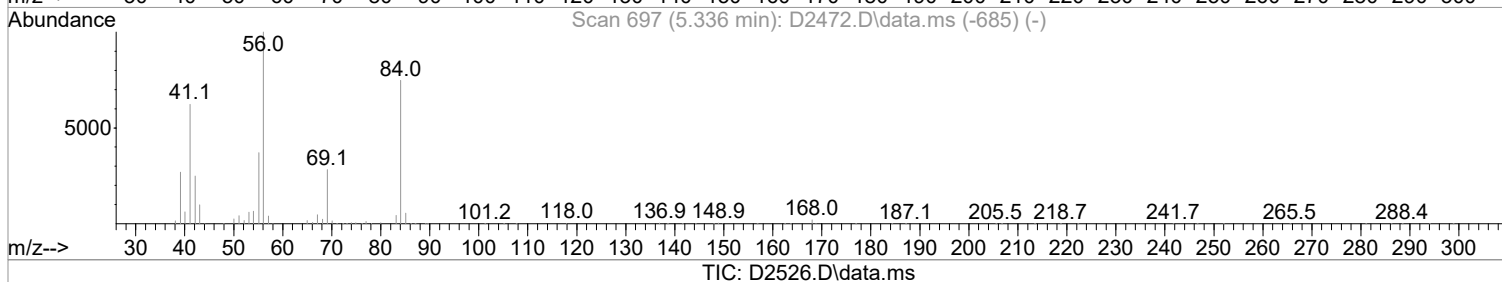
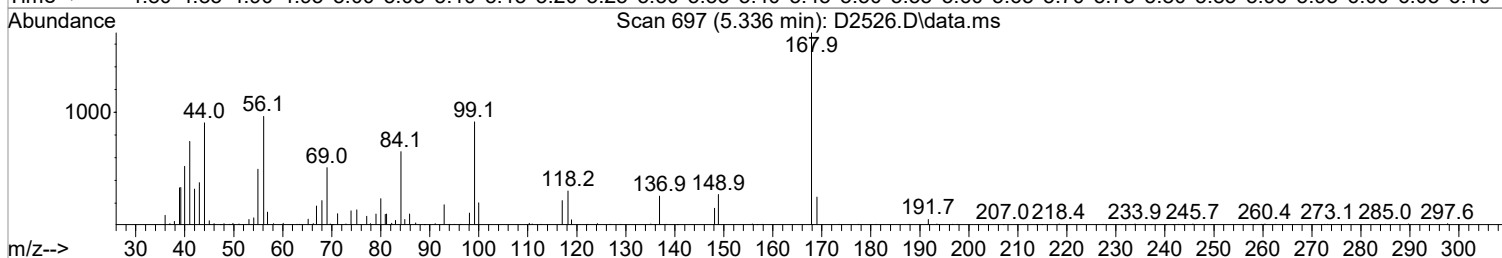
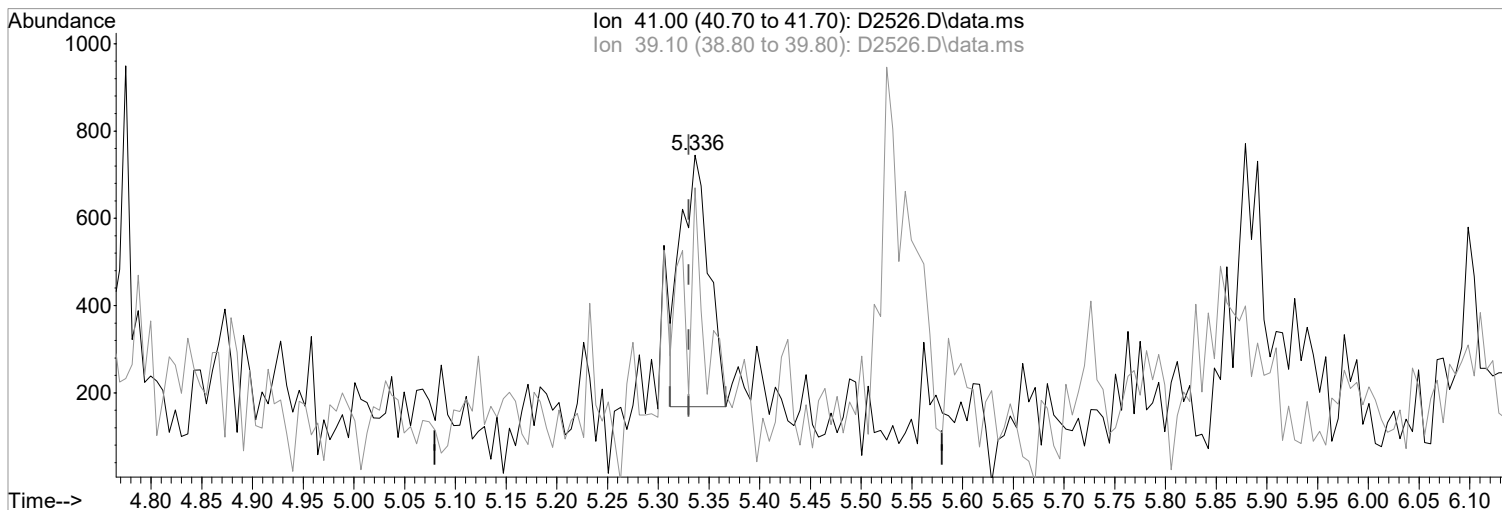
After

Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(42) Cyclohexane (P)

5.336min (+0.006) 0.41 ug/L

response 1097

Ion Exp% Act%

41.00 100 100

39.10 43.50 89.93#

0.00 0.00 0.00

0.00 0.00 0.00

Manual Integration:

Before

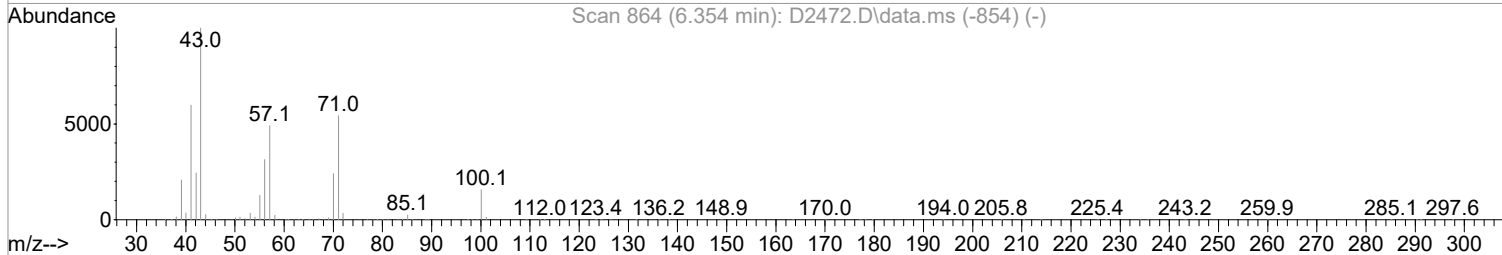
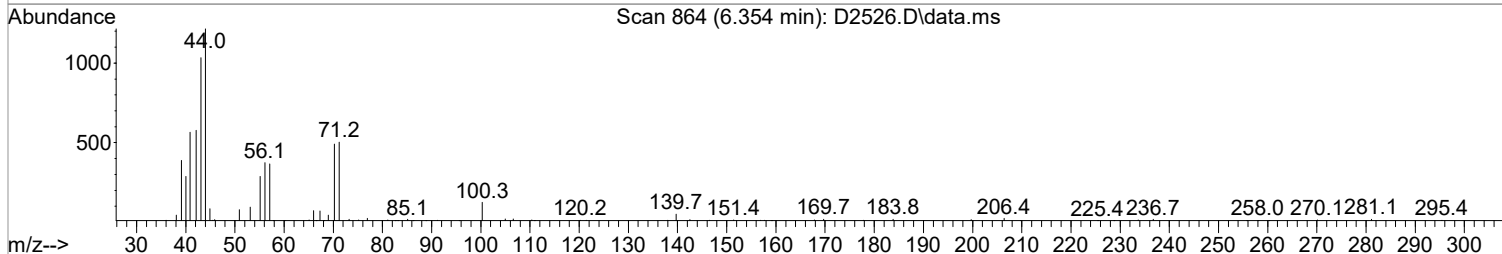
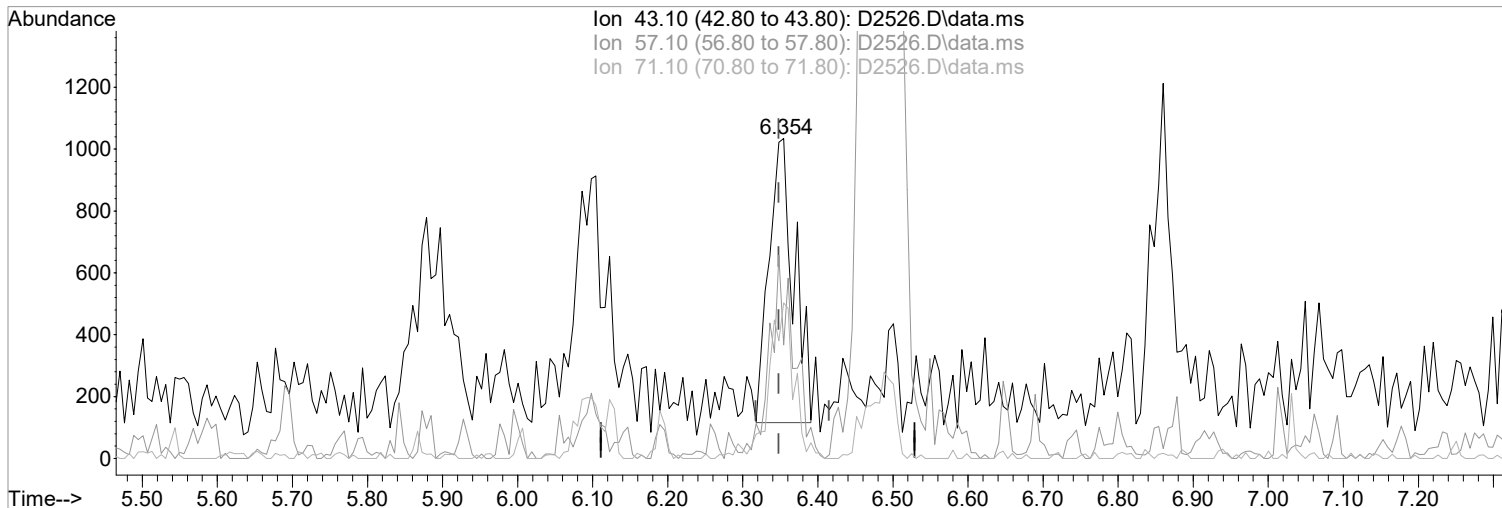
04/11/18



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(51) n-Heptane  
 6.354min (+0.006) 0.60 ug/L m  
 response 2130

Manual Integration:  
 After  
 Poor integration.

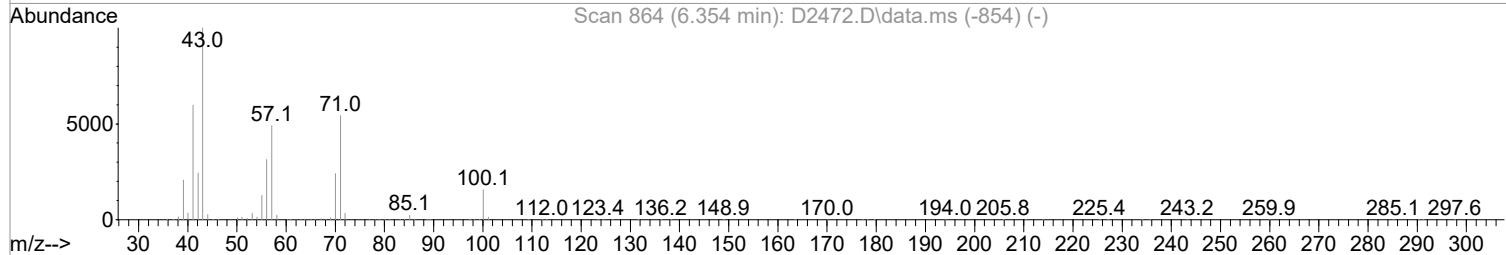
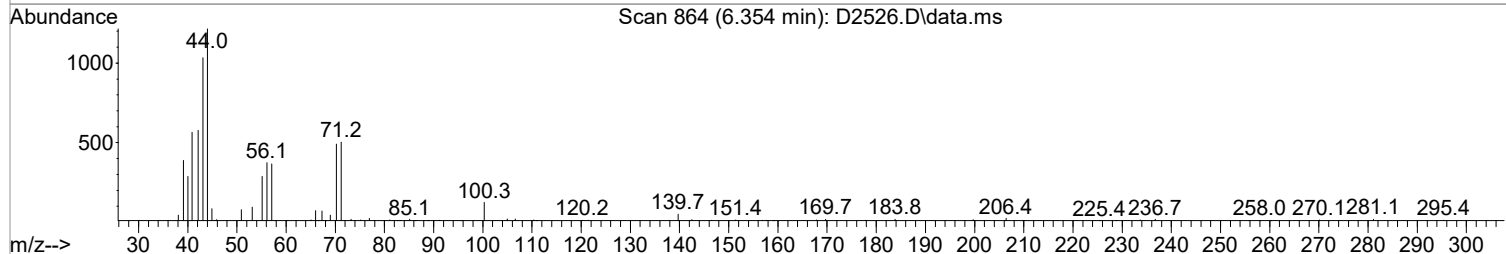
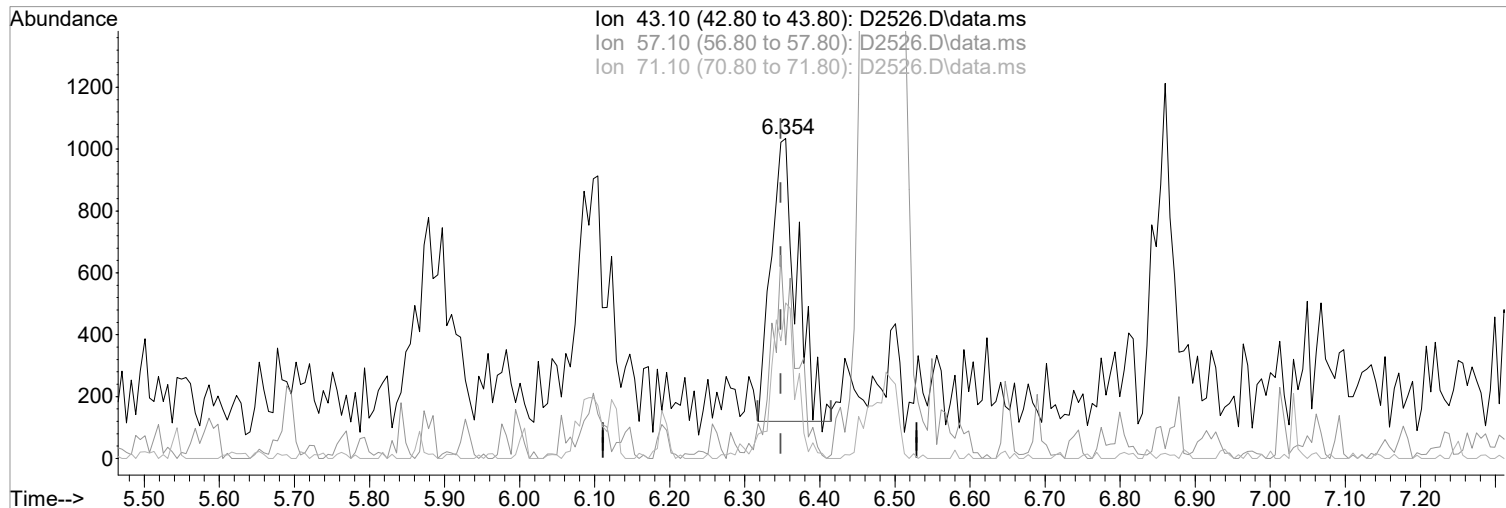
Ion	Exp%	Act%
43.10	100	100
57.10	49.10	35.49
71.10	54.30	48.65
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(51) n-Heptane  
6.354min (+0.006) 0.62 ug/L  
response 2211

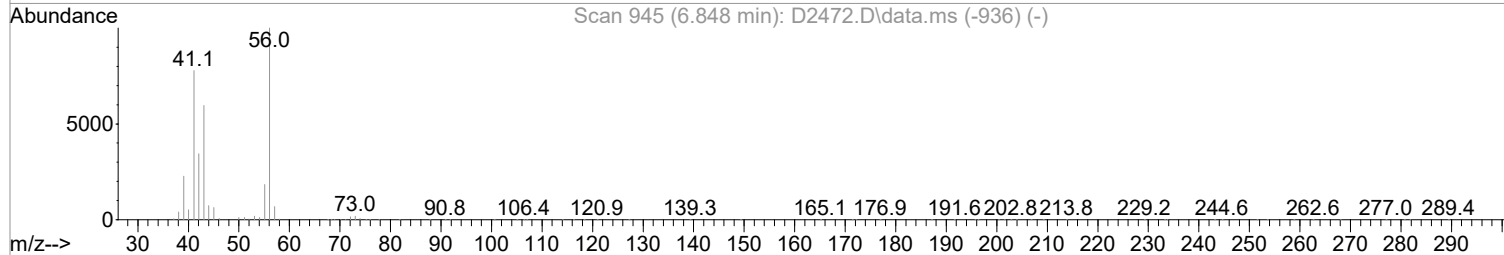
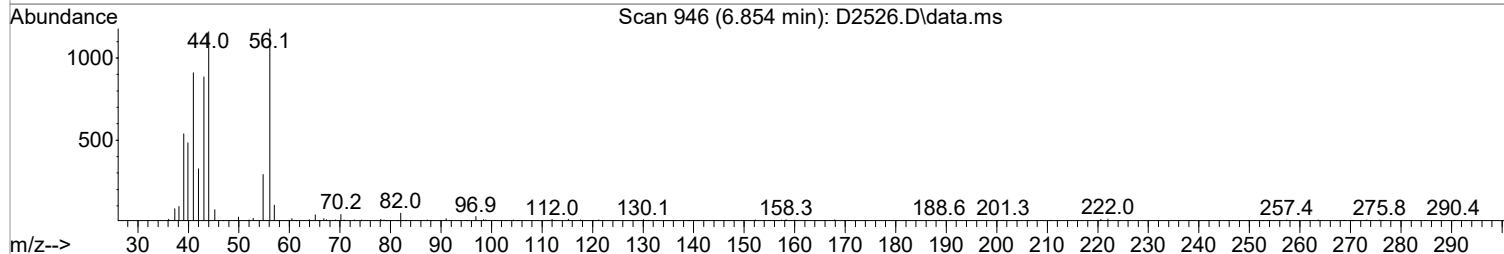
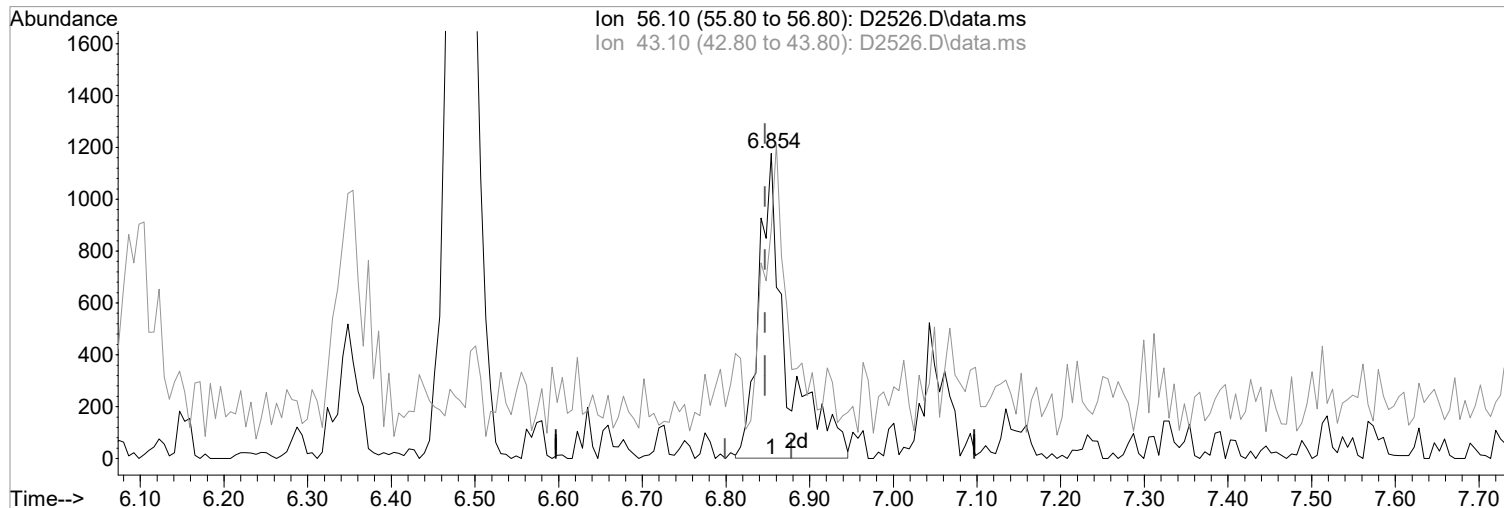
Manual Integration:  
Before

Ion	Exp%	Act%
43.10	100	100
57.10	49.10	36.46
71.10	54.30	48.65
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(52) 1-Butanol  
6.854min (+0.007) 51.38 ug/L m  
response 2677

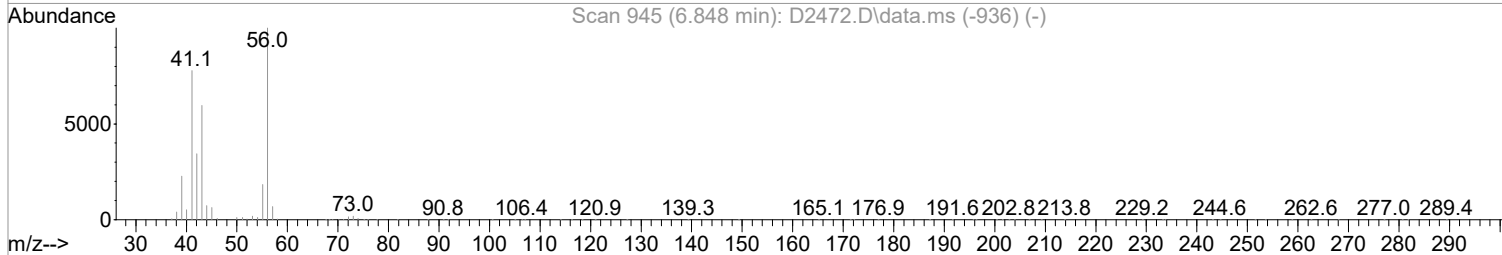
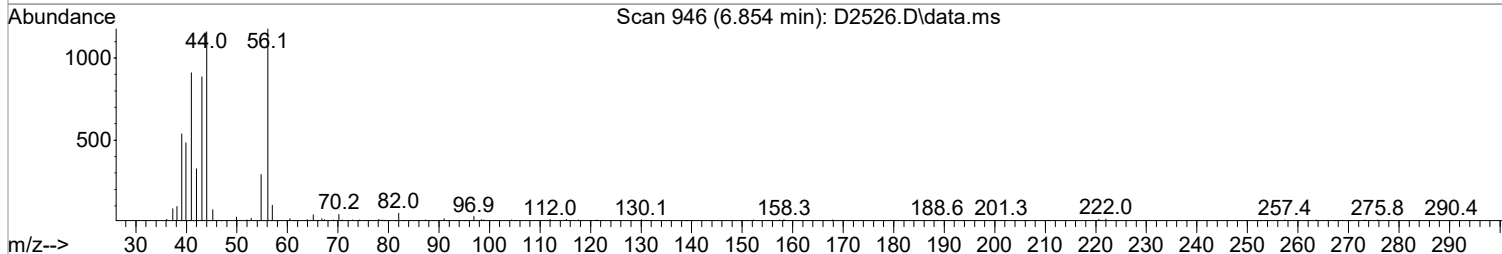
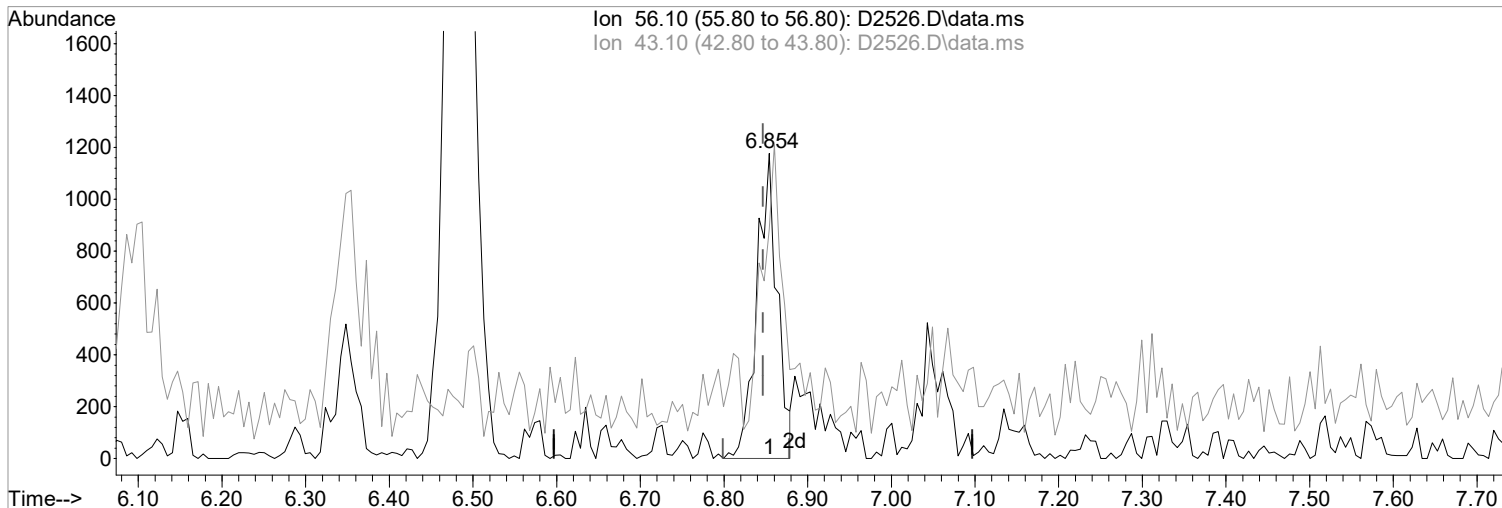
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
56.10	100	100
43.10	59.80	75.19
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration

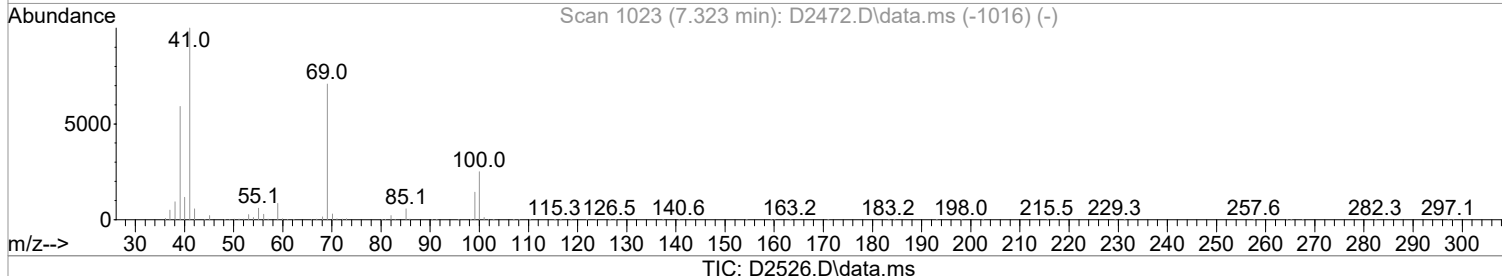
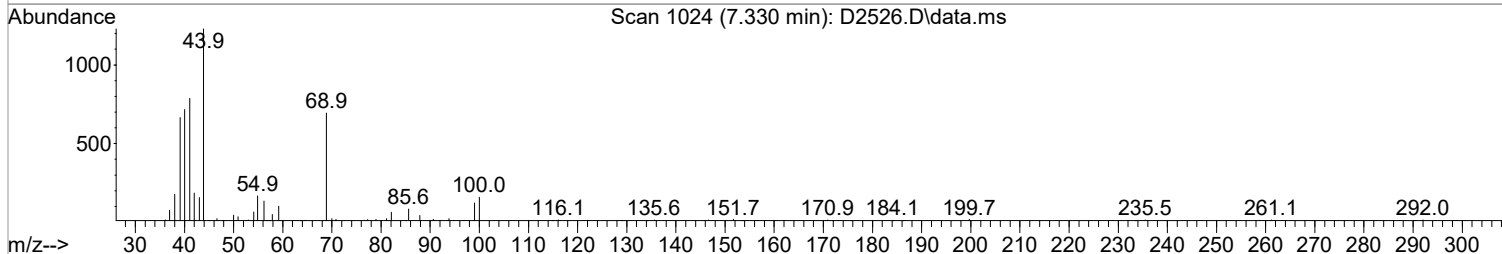
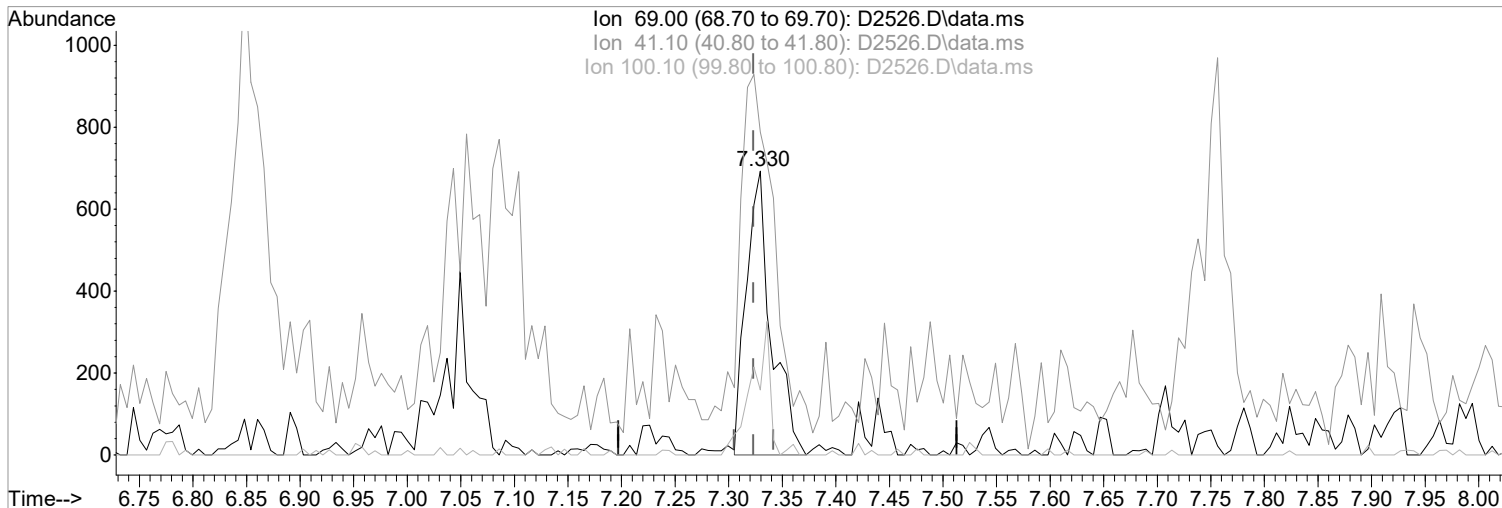


TIC: D2526.D\data.ms

(52) 1-Butanol	Manual Integration:
6.854min (+0.007) 42.91 ug/L	Before
response 1999	
Ion Exp% Act%	04/11/18
56.10 100 100	
43.10 59.80 75.19	
0.00 0.00 0.00	
0.00 0.00 0.00	

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(58) Methyl Methacrylate  
7.330min (+0.007) 0.58 ug/L m  
response 1127

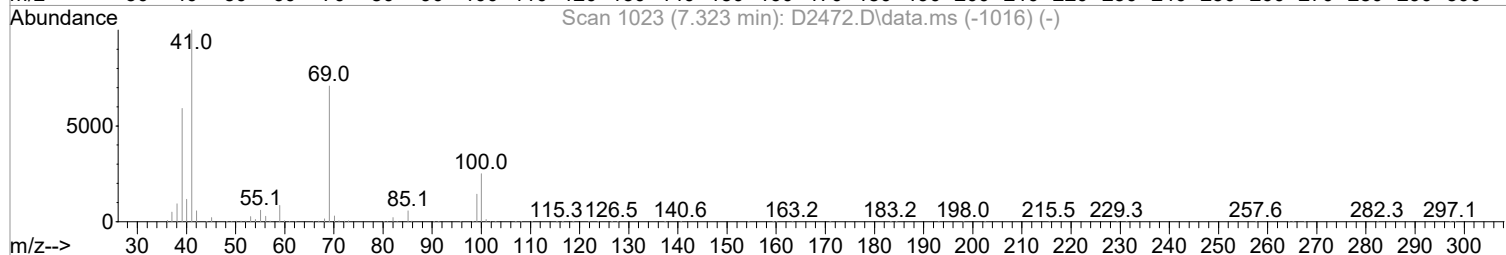
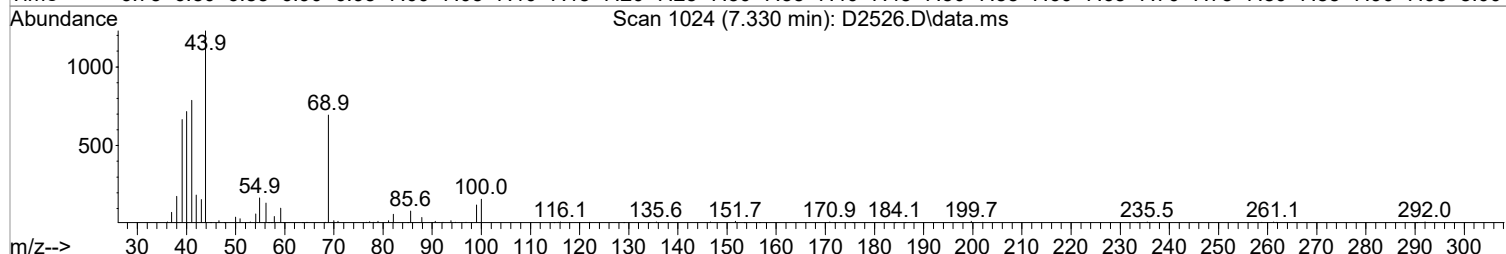
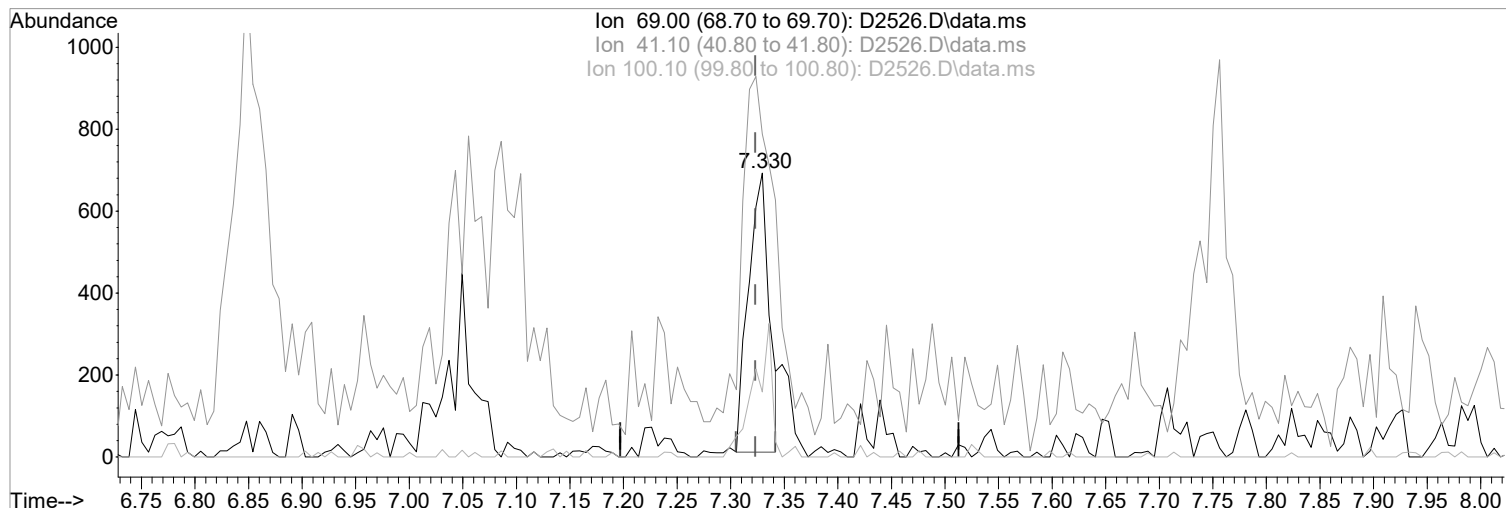
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
69.00	100	100
41.10	142.40	113.71#
100.10	35.20	22.94
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(58) Methyl Methacrylate  
7.330min (+0.007) 0.47 ug/L  
response 915

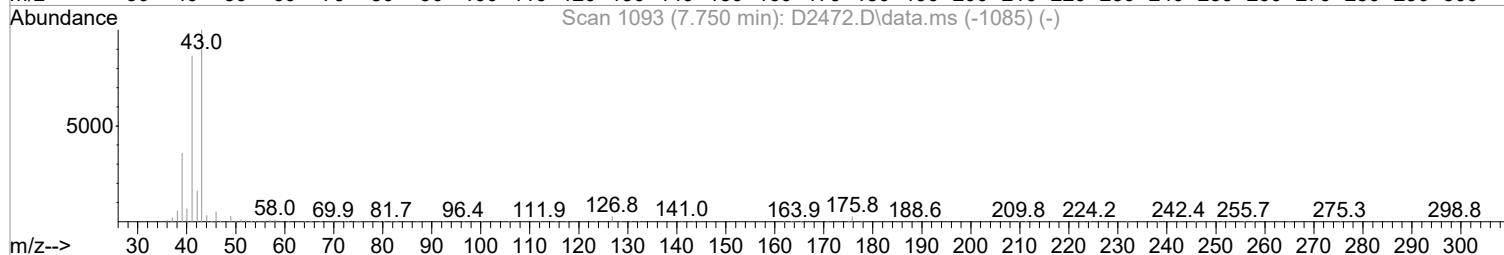
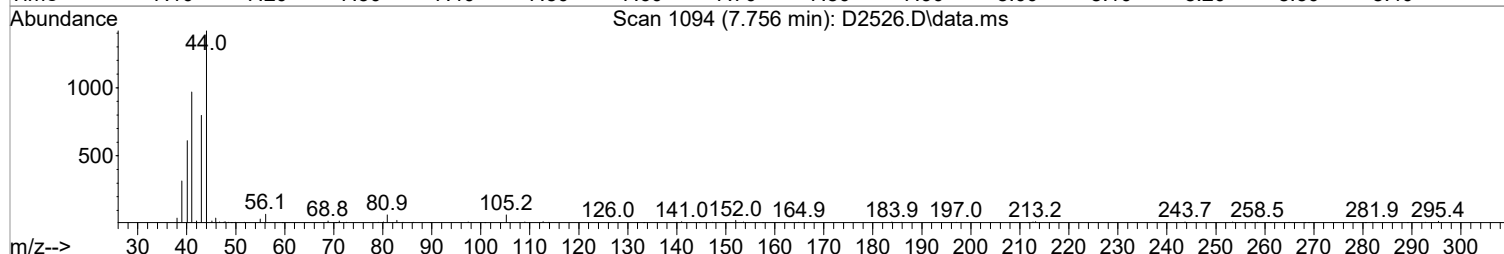
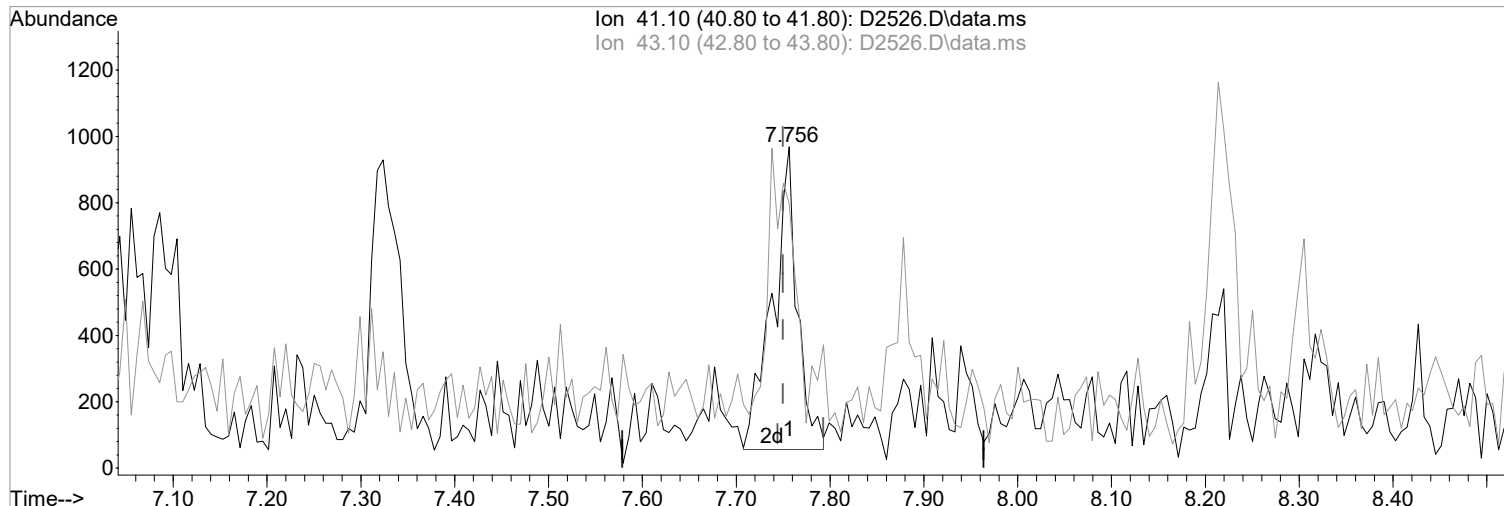
Manual Integration:  
Before

Ion	Exp%	Act%
69.00	100	100
41.10	142.40	113.71#
100.10	35.20	22.94
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(60) 2-Nitropropane  
7.756min (+0.006) 2.48 ug/L m  
response 1675

Manual Integration:

After

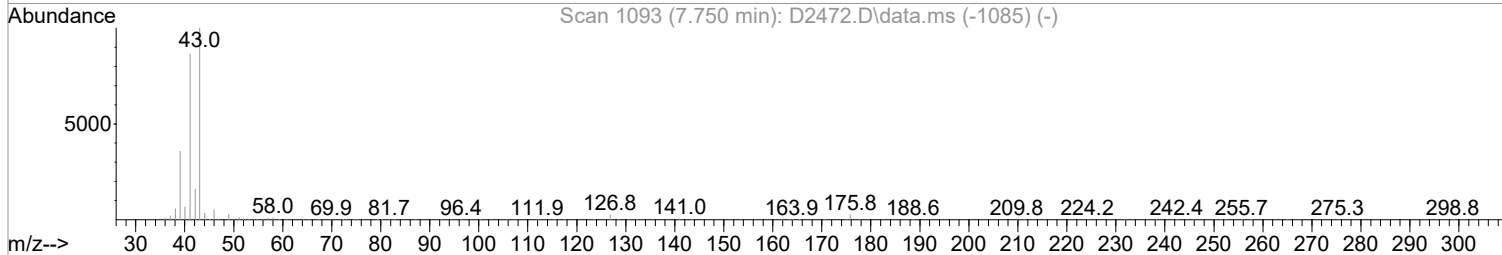
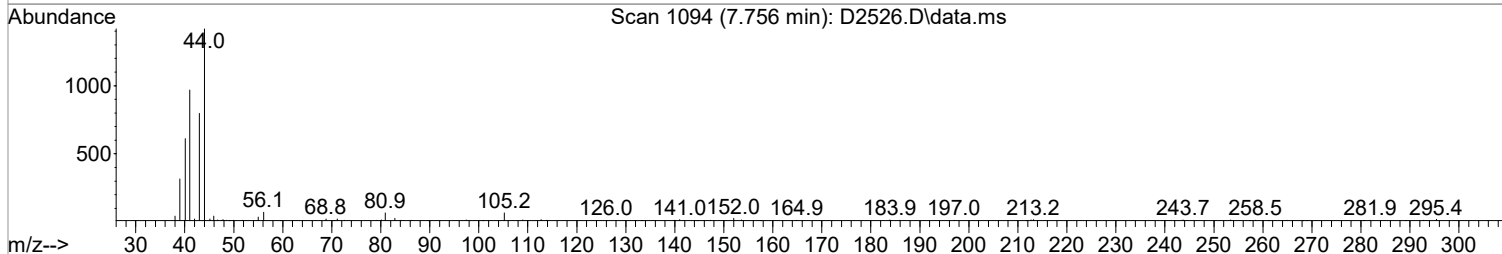
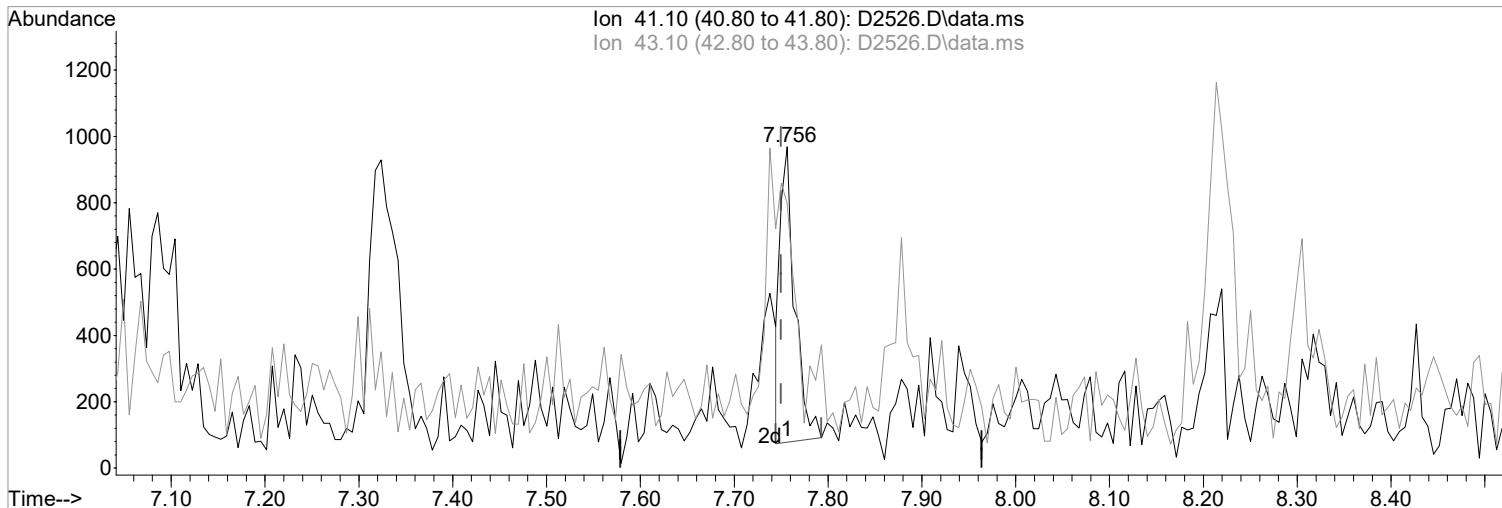
Poor integration.

04/11/18

Ion	Exp%	Act%
41.10	100	100
43.10	115.90	82.25#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2526.D\data.ms

(60) 2-Nitropropane  
7.756min (+0.006) 1.42 ug/L  
response 959

Manual Integration:  
Before

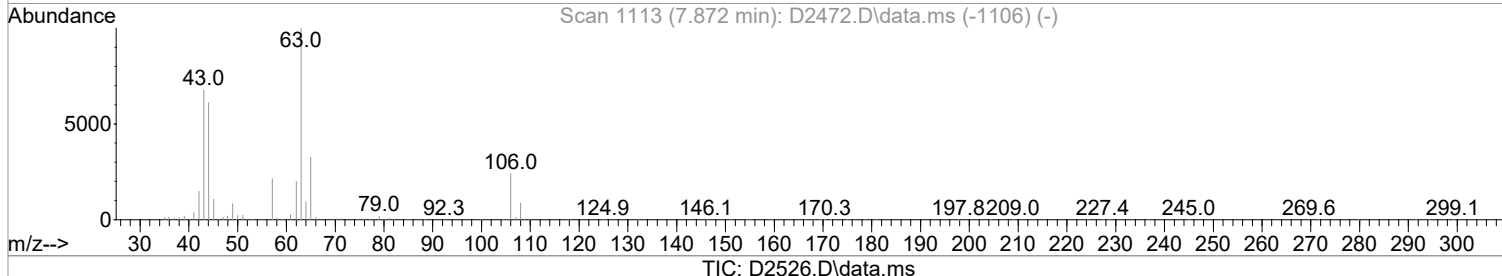
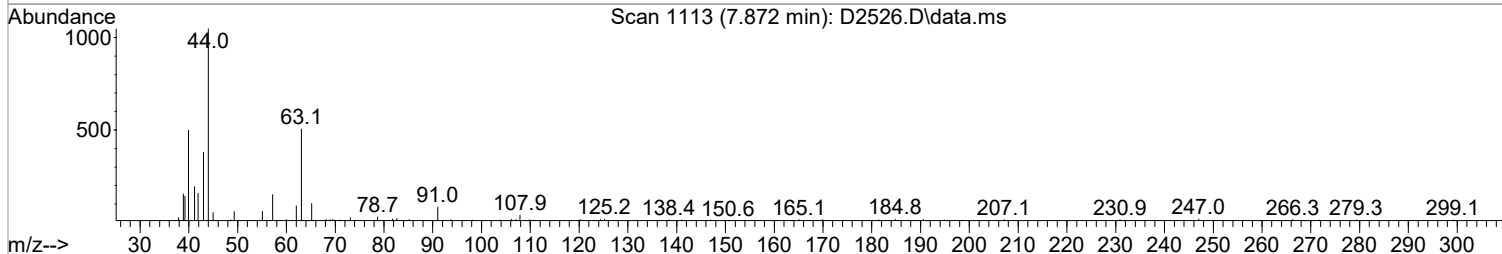
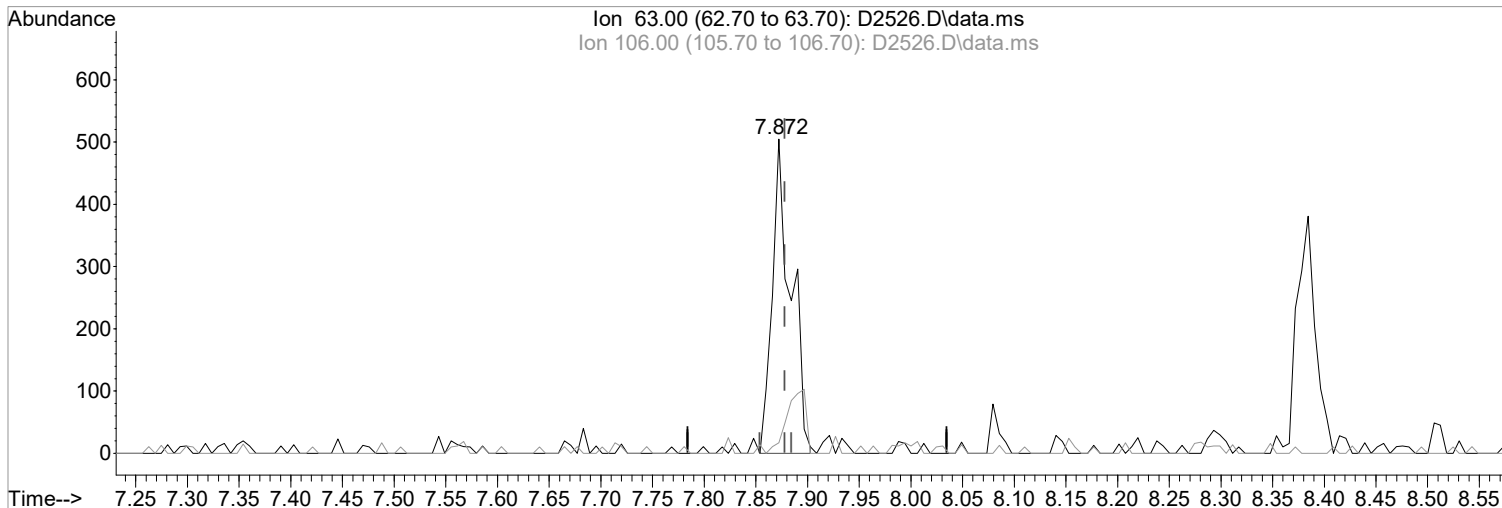
Ion	Exp%	Act%
41.10	100	100
43.10	115.90	82.25#
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(61) 2-Chloroethylvinyl Ether

7.872min (-0.006) 0.46 ug/L m

response 633

Ion	Exp%	Act%
63.00	100	100
106.00	24.00	3.37#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

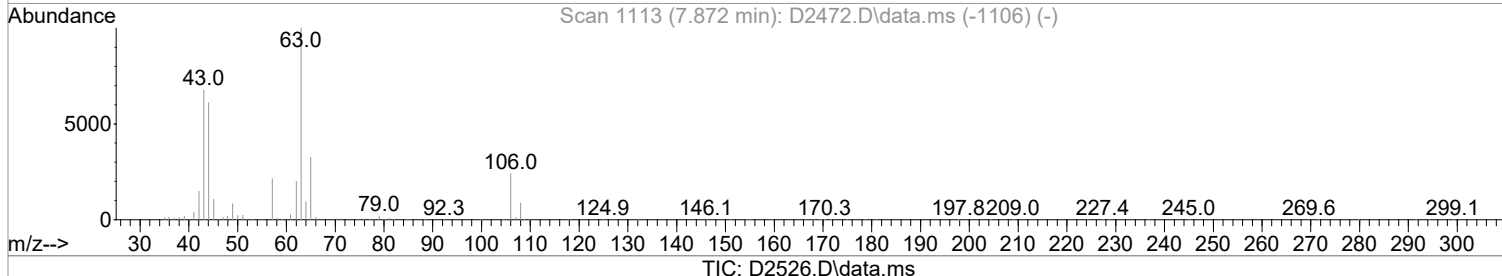
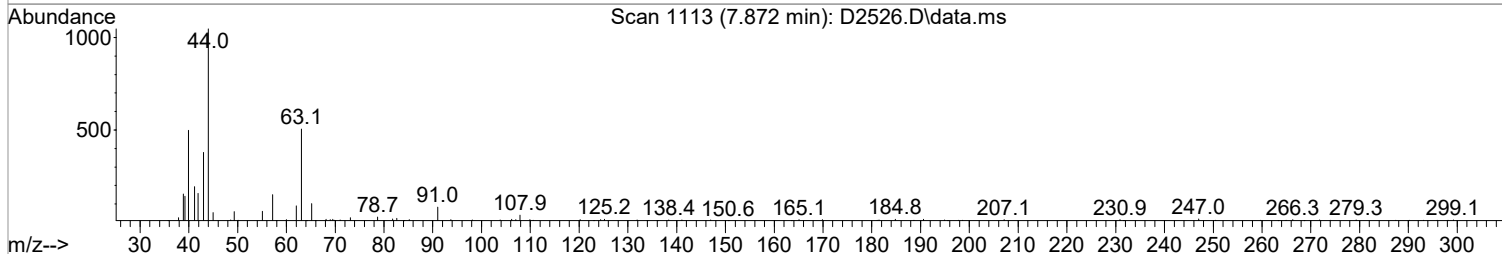
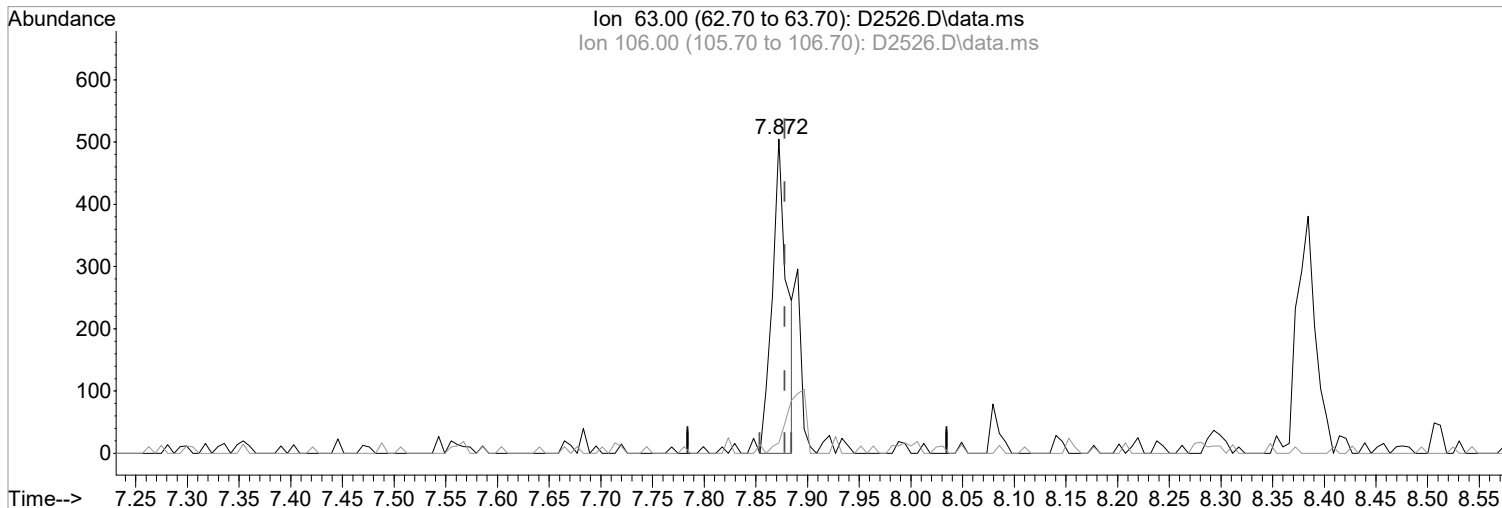
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(61) 2-Chloroethylvinyl Ether

7.872min (-0.006) 0.37 ug/L

response 507

Ion	Exp%	Act%
63.00	100	100
106.00	24.00	3.37#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

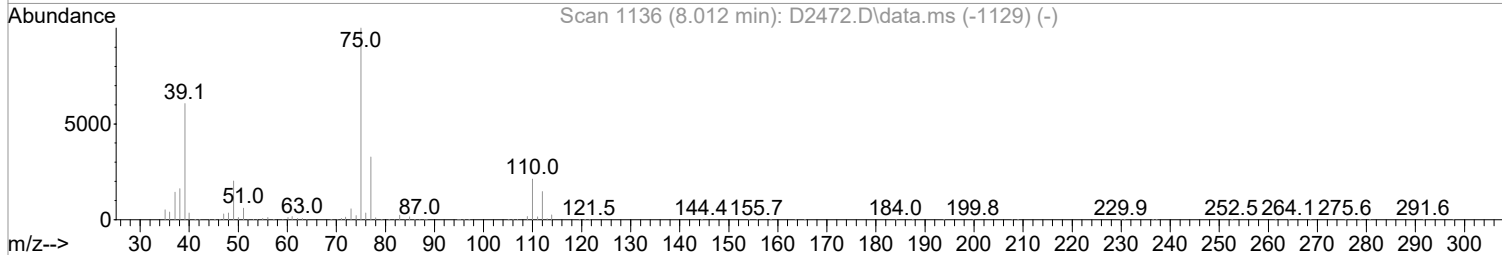
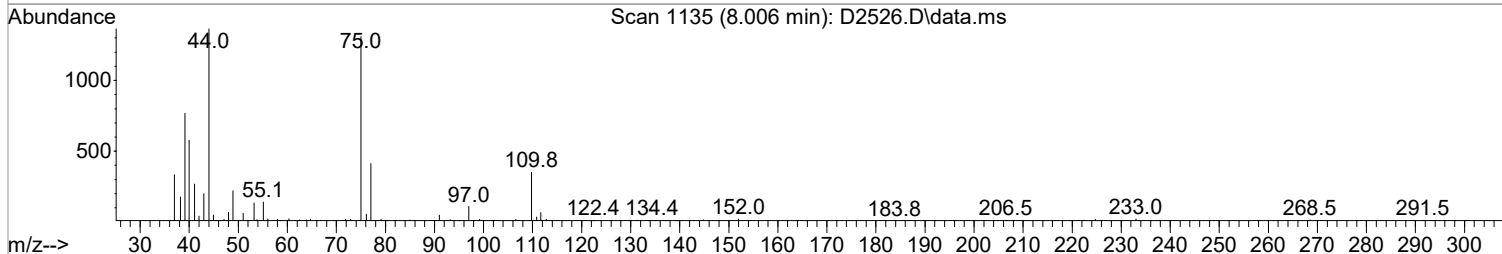
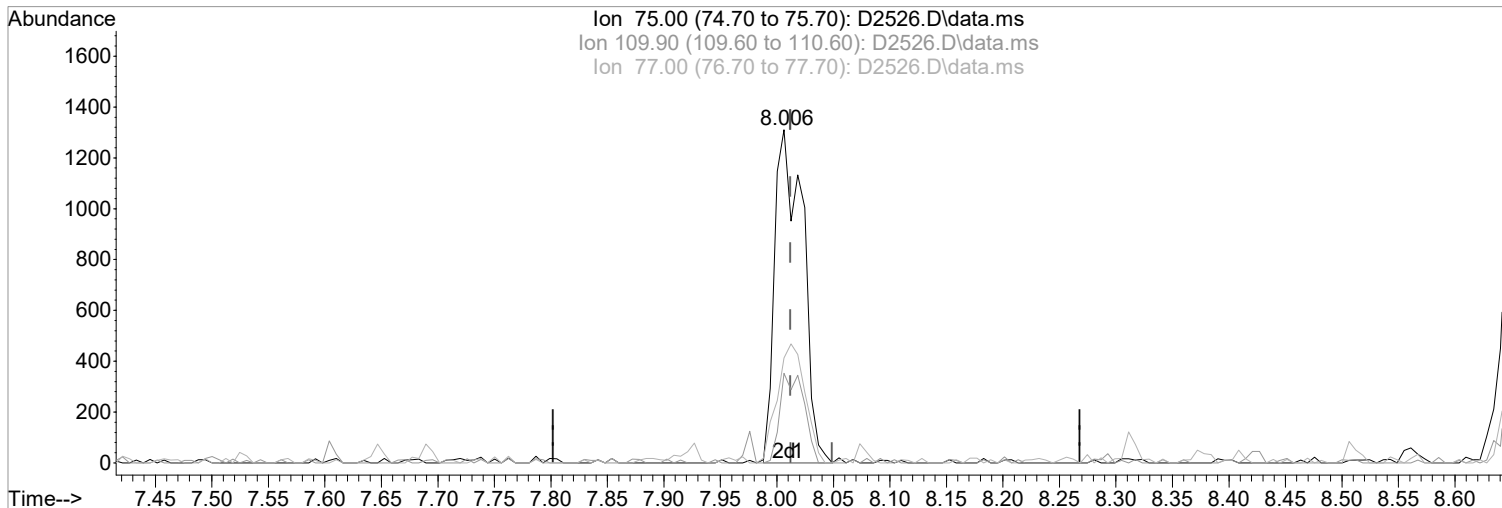
Before

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

8.006min (-0.006) 0.78 ug/L m

response 2266

Ion	Exp%	Act%
75.00	100	100
109.90	21.20	26.87
77.00	32.80	31.53
0.00	0.00	0.00

Manual Integration:

After

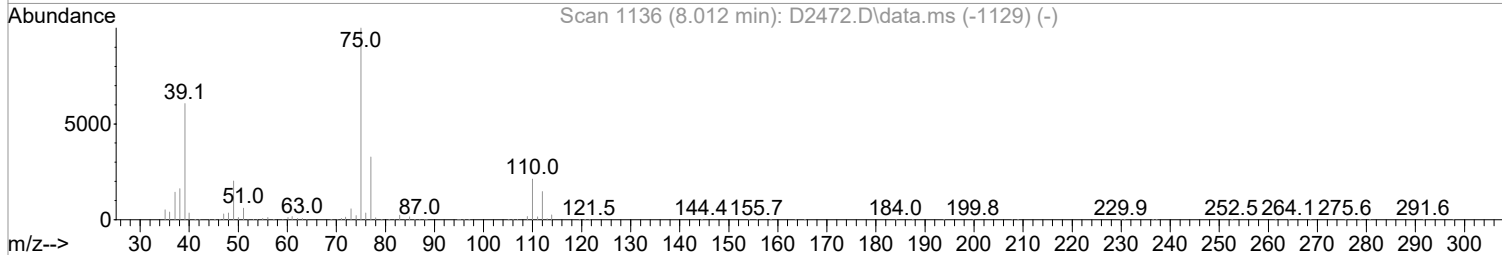
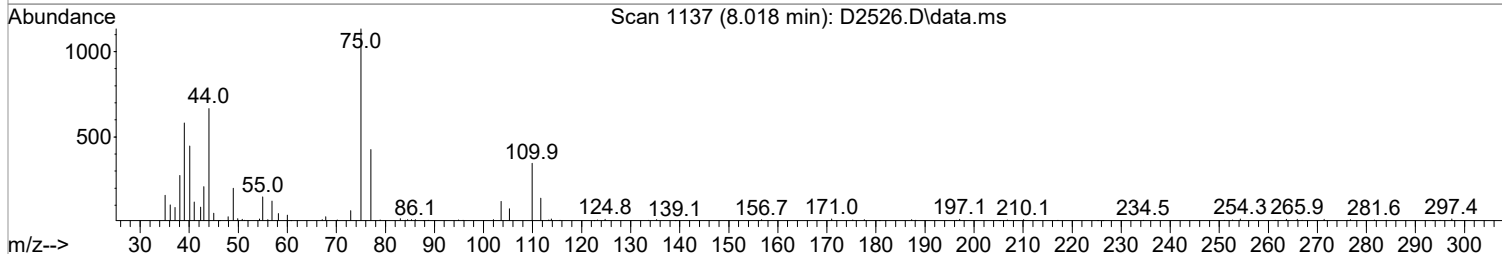
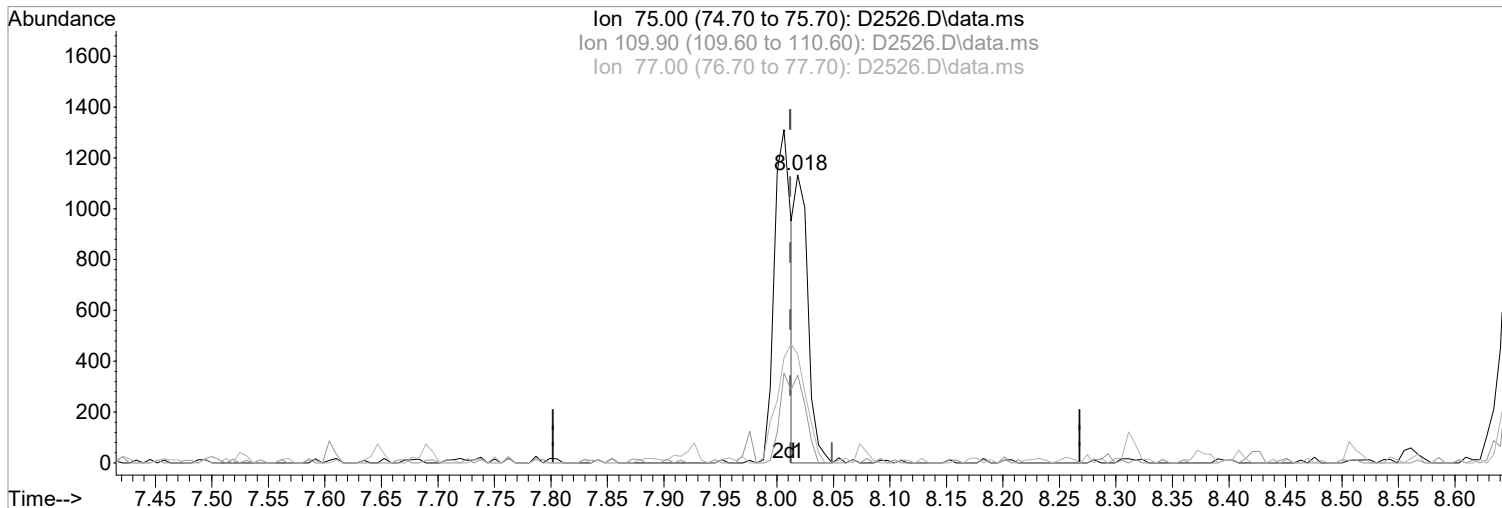
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(62) cis-1,3-Dichloropropene (P)

Manual Integration:

8.018min (+0.006) 0.38 ug/L

Before

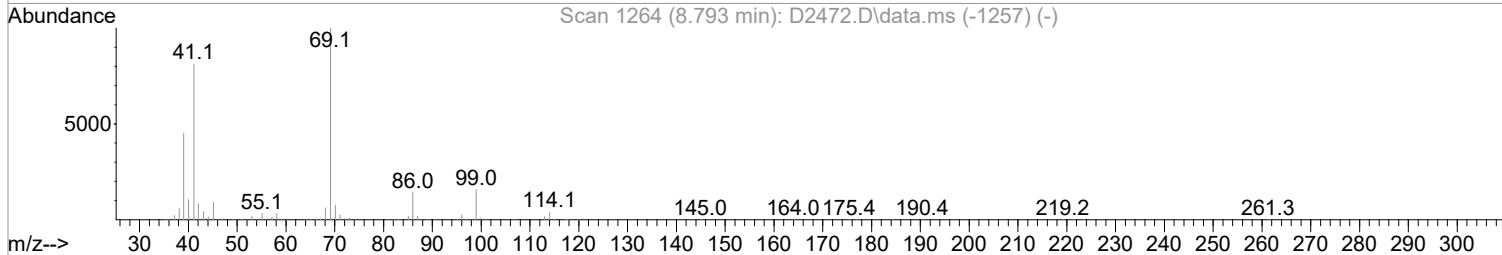
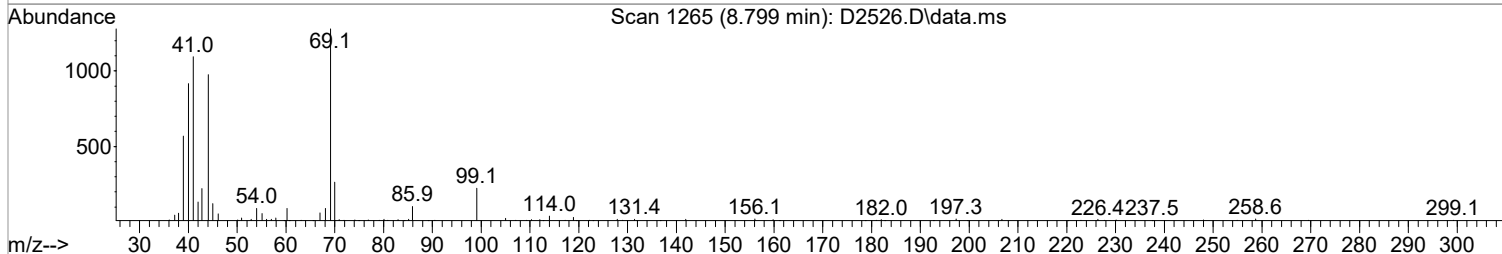
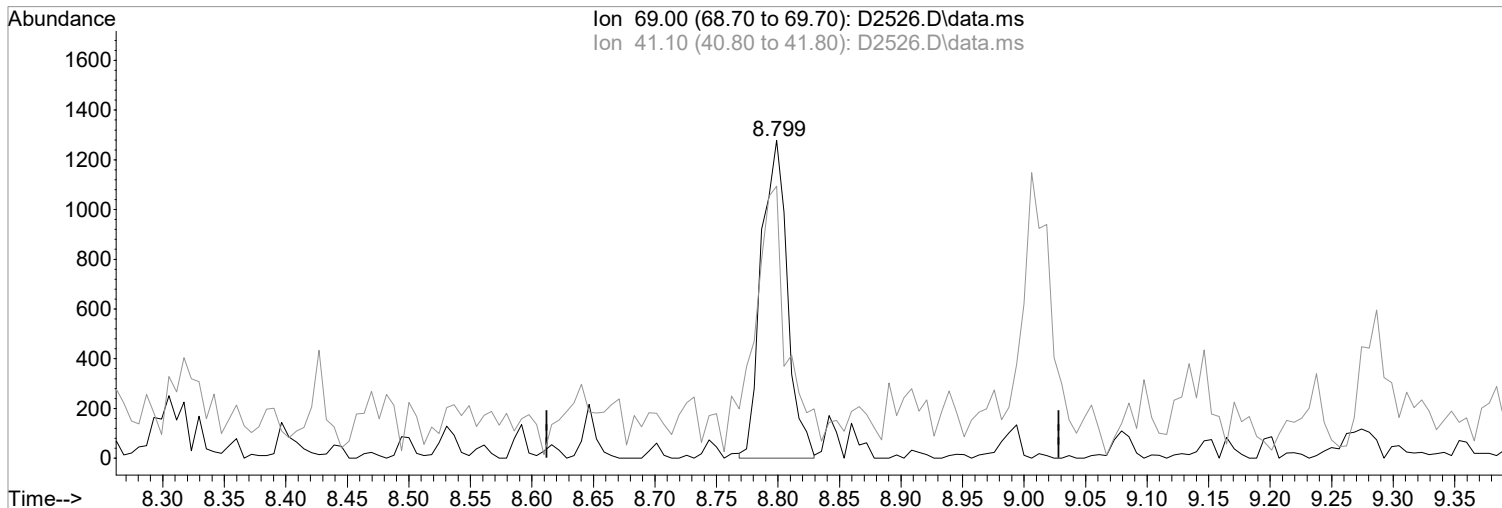
response 912

Ion	Exp%	Act%
75.00	100	100
109.90	21.20	30.45
77.00	32.80	37.69
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(67) Ethyl Methacrylate

8.799min (+0.007) 0.71 ug/L m

response 1893

Ion	Exp%	Act%
69.00	100	100
41.10	81.30	85.60
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

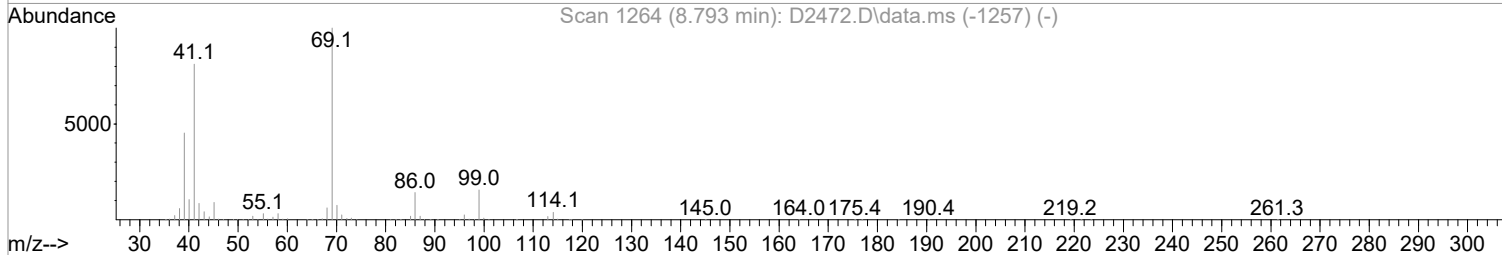
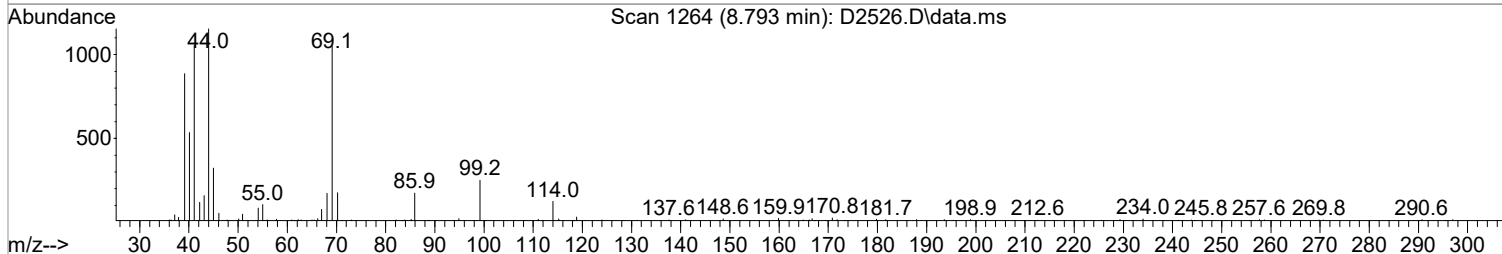
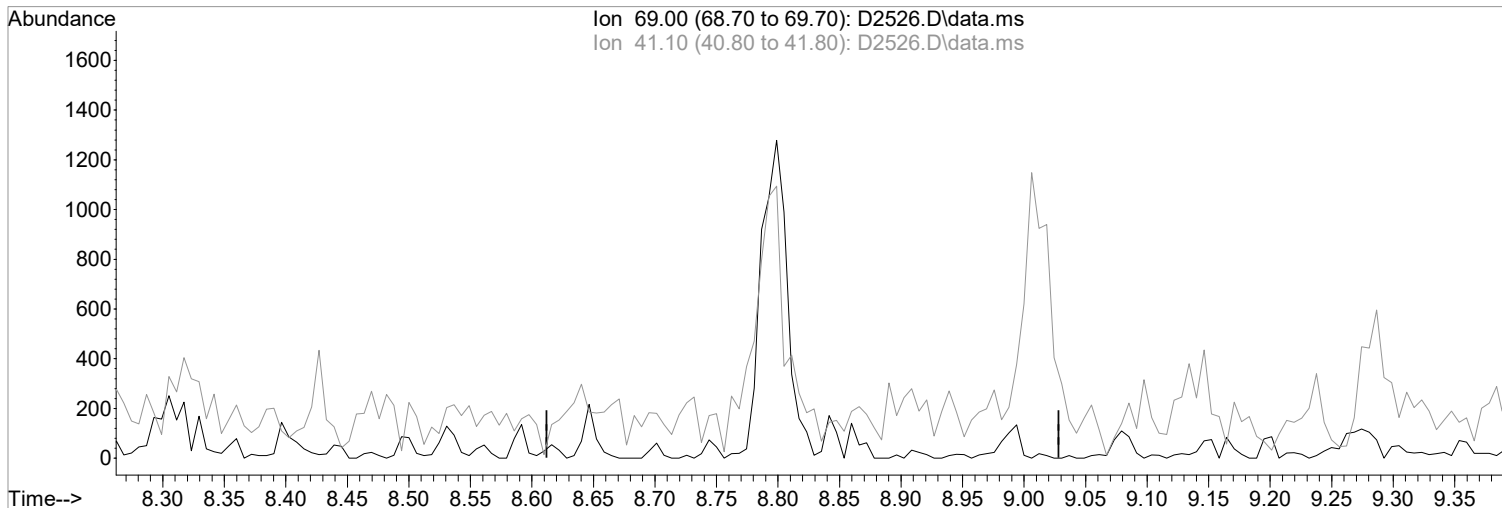
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2526.D  
Acq On : 11 Apr 2018 11:20 am  
Operator : D.LIPANI  
Sample : STD #1 - 0.5 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(67) Ethyl Methacrylate  
8.792min (-8.792) 0.00 ug/L  
response 0

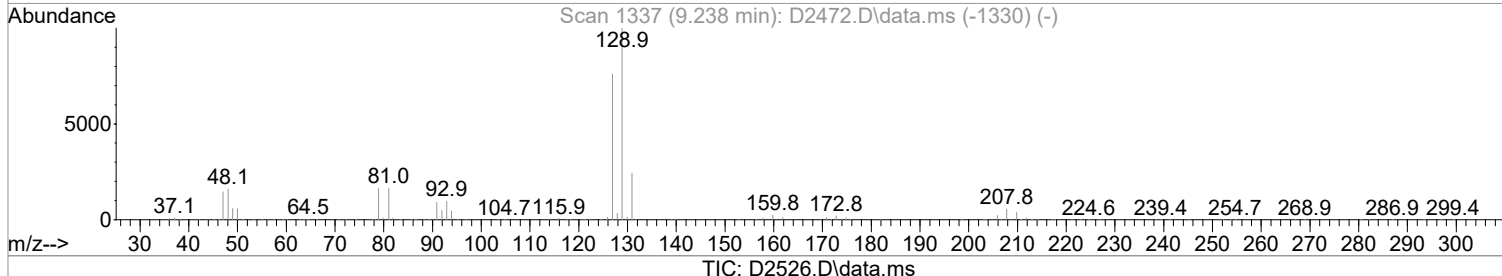
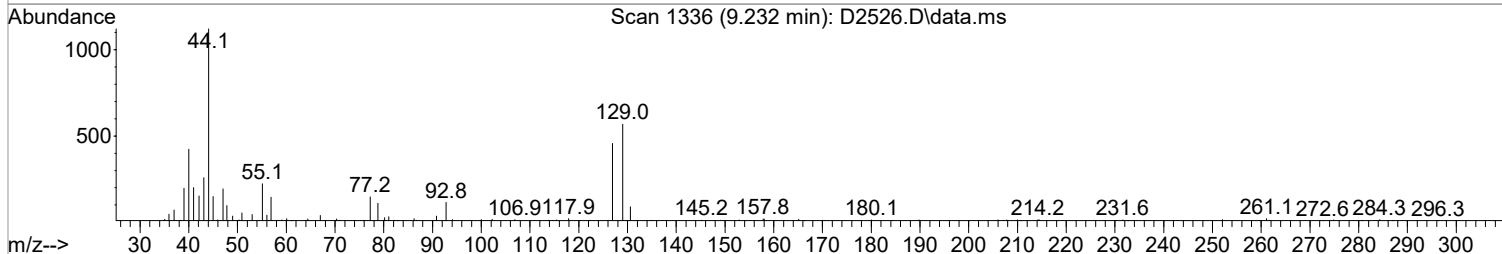
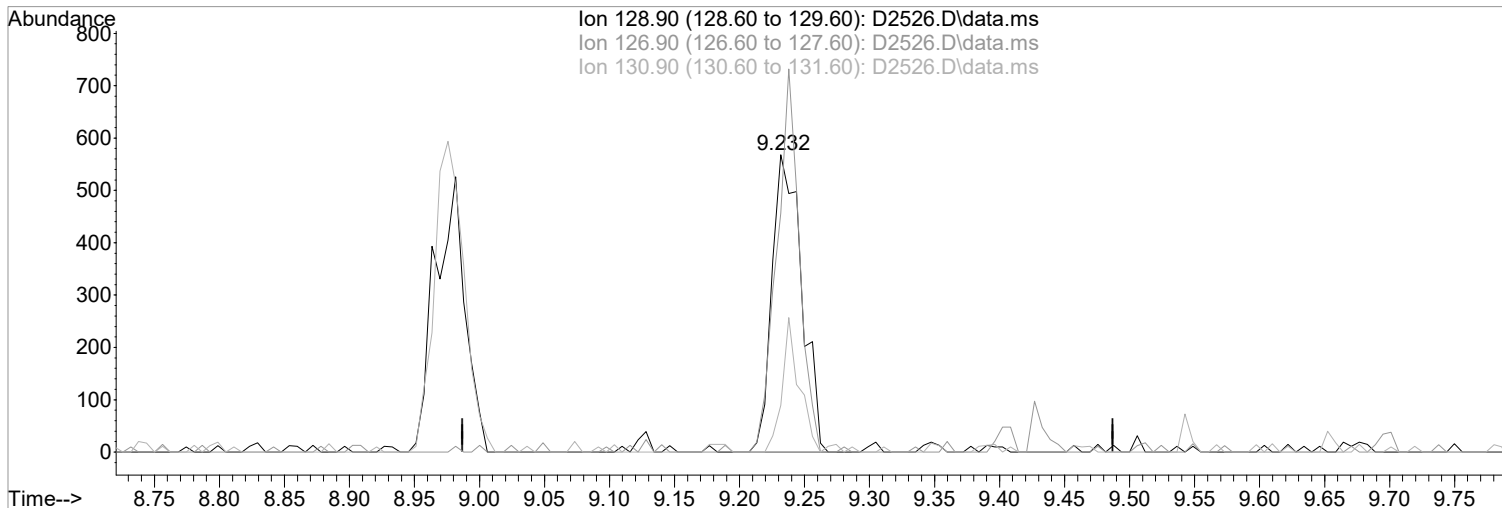
Manual Integration:  
Before

Ion	Exp%	Act%
69.00	100	0.00
41.10	81.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(74) Dibromochloromethane (P)

9.232min (-0.005) 0.42 ug/L m  
 response 901

Ion	Exp%	Act%
128.90	100	100
126.90	76.00	80.46
130.90	24.40	15.67
0.00	0.00	0.00

Manual Integration:

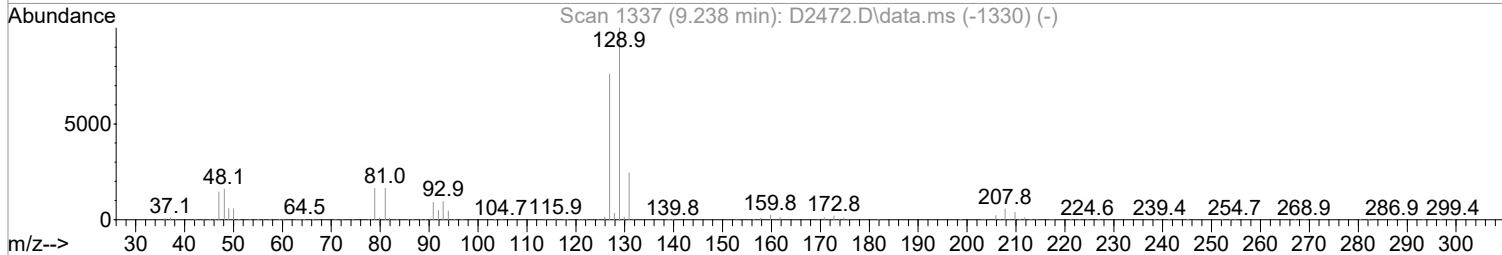
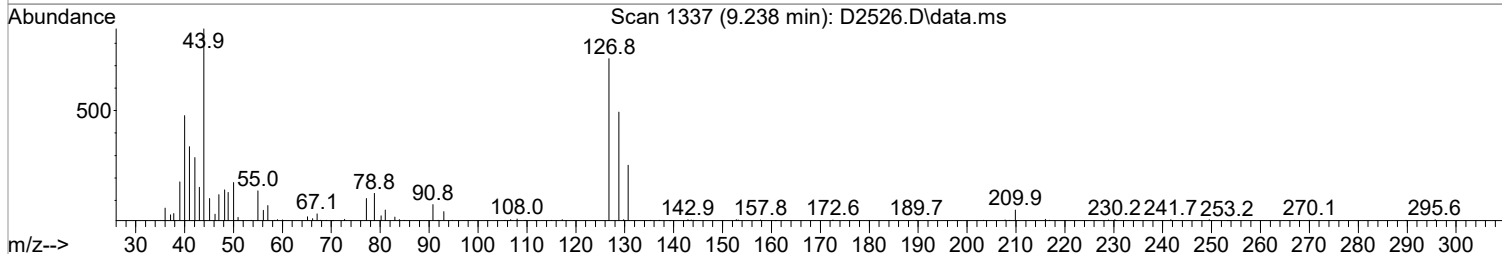
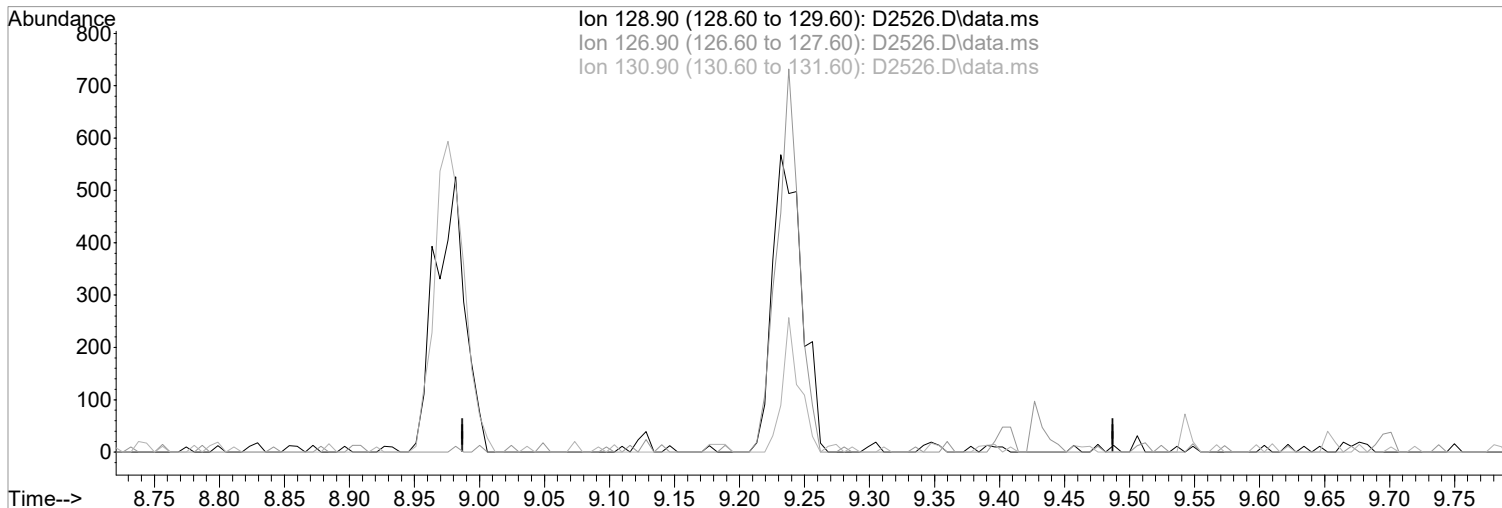
After

Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(74) Dibromochloromethane (P)

Manual Integration:

9.237min (-9.237) 0.00 ug/L

Before

response 0

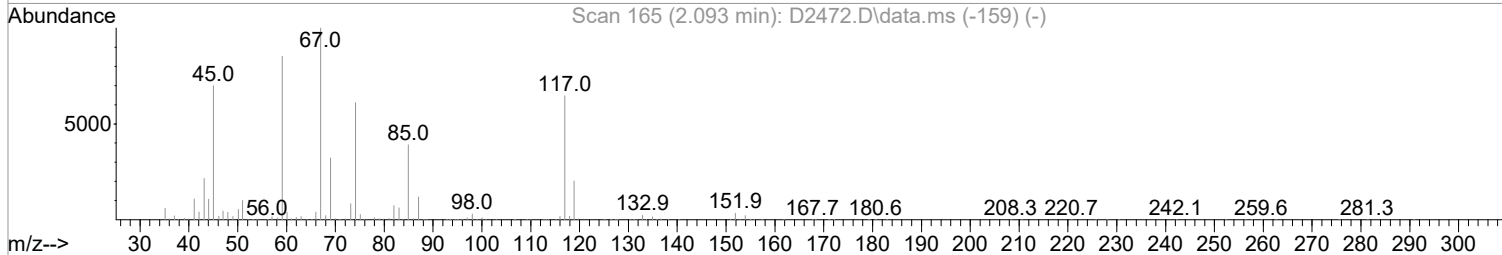
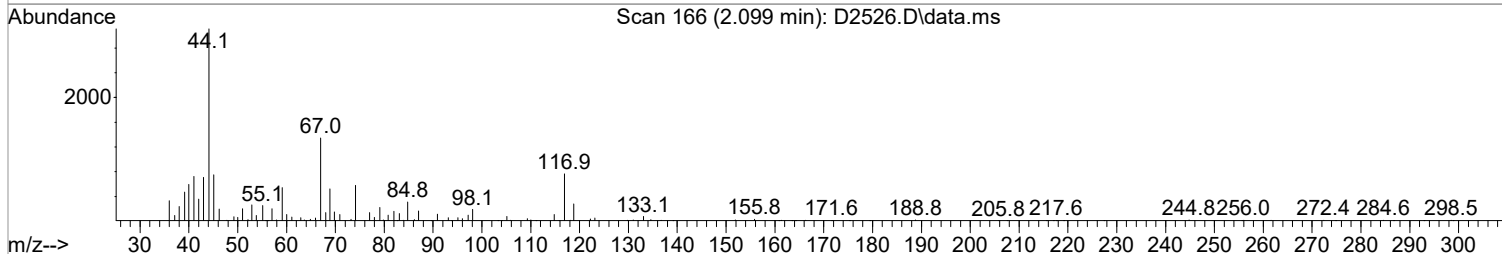
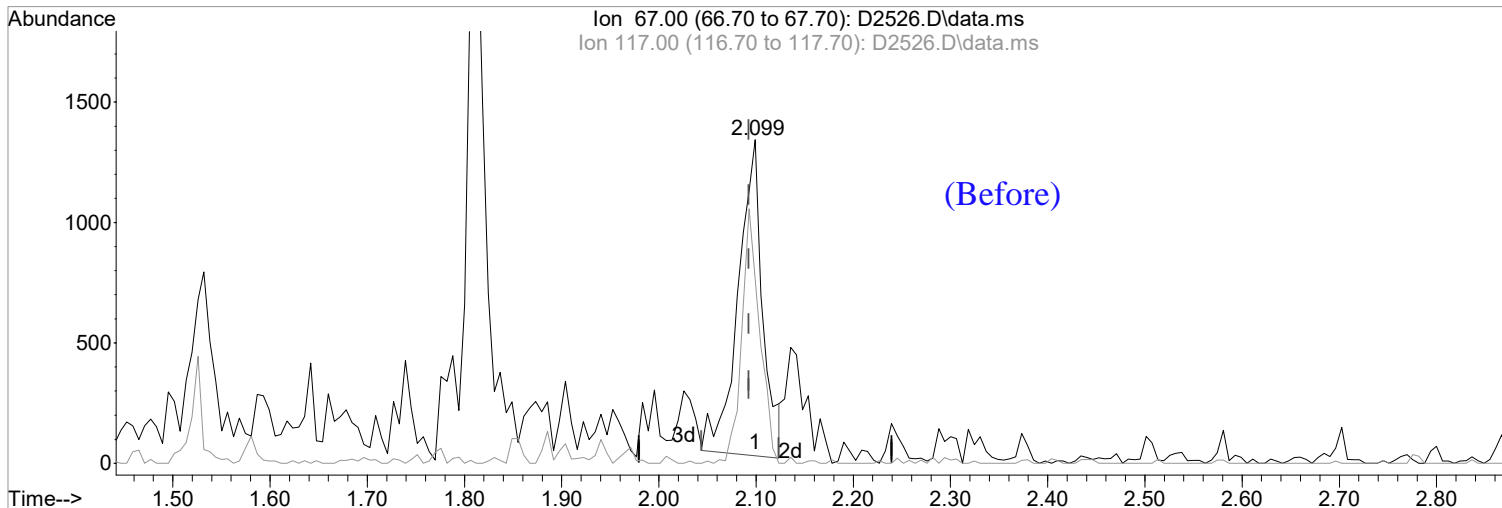
Ion	Exp%	Act%
128.90	100	0.00
126.90	76.00	0.00#
130.90	24.40	0.00#
0.00	0.00	0.00

04/11/18



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:34:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



(10) Freon 123a  
 2.099min (+0.006) 0.80 ug/L  
 response 2300

Manual Integration:  
 Before

Ion	Exp%	Act%
67.00	100	100
117.00	64.70	56.89
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 13:03:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	224296	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	347917	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	294100	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	150395	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.239	113	23658	11.08	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	22.16%#
46) surr1,1,2-dichloroetha...	5.781	65	33121	12.14	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	24.28%#
64) SURR3,Toluene-d8	8.305	98	99586	11.43	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	22.86%#
69) SURR2,BFB	10.878	95	38924	11.48	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	22.96%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.148	85	2138	0.67	ug/L	91
3) Chloromethane	1.282	50	2445	0.64	ug/L	98
4) Vinyl Chloride	1.355	62	2175	0.66	ug/L	99
5) Bromomethane	1.587	94	2462	0.77	ug/L	89
6) Chloroethane	1.666	64	1168	0.58	ug/L #	85
7) Freon 21	1.812	67	3034	0.65	ug/L	96
8) Trichlorofluoromethane	1.855	101	1895	0.59	ug/L	85
9) Diethyl Ether	2.087	59	1355	0.63	ug/L #	80
10) Freon 123a	2.099	67	1912m	0.66	ug/L	
11) Freon 123	2.142	83	1648	0.54	ug/L #	75
12) Acrolein	2.190	56	1852	2.87	ug/L #	45
13) 1,1-Diclcethene	2.276	96	1350	0.66	ug/L #	69
14) Freon 113	2.282	101	1424	0.65	ug/L #	70
16) 2-Propanol	2.453	45	3312	14.93	ug/L	91
18) Carbon Disulfide	2.477	76	3571	0.61	ug/L	81
19) Acetonitrile	2.574	41	1494	3.02	ug/L #	54
20) Allyl Chloride	2.617	76	646	0.60	ug/L #	28
21) Methyl Acetate	2.635	43	2167	0.85	ug/L	87
22) Methylene Chloride	2.727	84	1529	0.64	ug/L	93
23) TBA	2.849	59	4478	14.67	ug/L	72
24) Acrylonitrile	2.983	53	3715m	2.89	ug/L	
25) Methyl-t-Butyl Ether	3.026	73	3861m	0.56	ug/L	
26) trans-1,2-Dichloroethene	3.032	96	1349	0.61	ug/L	84
27) 1,1-Diclcethane	3.519	63	2419	0.57	ug/L #	66
29) DIPE	3.654	45	4704	0.54	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.641	53	2221	0.58	ug/L	84
31) ETBE	4.184	59	4265	0.63	ug/L	88
32) 2,2-Dichloropropane	4.355	77	2414	0.96	ug/L	72
33) cis-1,2-Dichloroethene	4.361	96	1405m	0.56	ug/L	
35) Propionitrile	4.495	54	1748	3.37	ug/L	93
36) Bromochloromethane	4.769	130	729	0.46	ug/L #	55
37) Methacrylonitrile	4.787	67	1193m	1.03	ug/L	
39) Chloroform	4.940	83	1964m	0.50	ug/L	
40) 1,1,1-Trichloroethane	5.232	97	2147m	0.70	ug/L	
42) Cyclohexane	5.336	41	1326m	0.50	ug/L	
44) Carbontetrachloride	5.525	117	1695	0.64	ug/L	90
45) 1,1-Dichloropropene	5.537	75	1952	0.57	ug/L	95
47) Benzene	5.854	78	4947	0.50	ug/L	85
48) 1,2-Dichloroethane	5.909	62	1825	0.51	ug/L	90

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 13:03:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Iso-Butyl Alcohol	5.879	43	2147	12.74	ug/L #	73
50) TAME	6.098	73	3615	0.58	ug/L	85
51) n-Heptane	6.354	43	2130m	0.60	ug/L	
52) 1-Butanol	6.854	56	2677m	51.38	ug/L	
53) Trichloroethene	6.824	130	1398	0.57	ug/L #	73
54) Methylcyclohexane	7.049	55	1829	0.55	ug/L #	76
55) 1,2-Dicloropropane	7.098	63	1167	0.44	ug/L	88
56) Dibromomethane	7.238	93	873	0.56	ug/L #	64
57) 1,4-Dioxane	7.305	88	578	13.06	ug/L #	58
58) Methyl Methacrylate	7.330	69	1127m	0.58	ug/L	
59) Bromodichloromethane	7.458	83	1544	0.53	ug/L	88
60) 2-Nitropropane	7.756	41	1675m	2.48	ug/L	
61) 2-Chloroethylvinyl Ether	7.872	63	633m	0.46	ug/L	
62) cis-1,3-Dichloropropene	8.006	75	2266m	0.78	ug/L	
65) Toluene	8.378	91	6378	0.62	ug/L	88
66) trans-1,3-Dichloropropene	8.646	75	1853	0.77	ug/L	87
67) Ethyl Methacrylate	8.799	69	1893m	0.71	ug/L	
68) 1,1,2-Trichloroethane	8.842	97	1080	0.47	ug/L #	72
71) Tetrachloroethene	8.976	164	889	0.45	ug/L #	74
73) 1,3-Dichloropropene	9.012	76	2308	0.56	ug/L	89
74) Dibromochloromethane	9.232	129	901m	0.42	ug/L	
75) N-Butyl Acetate	9.287	43	2885	0.60	ug/L	98
76) 1,2-Dibromoethane	9.329	107	1172	0.53	ug/L #	59
77) 3-Chlorobenzotrifluoride	9.847	180	1828	0.49	ug/L	83
78) Chlorobenzene	9.823	112	3327	0.50	ug/L	97
79) 4-Chlorobenzotrifluoride	9.902	180	1683	0.50	ug/L	84
80) 1,1,1,2-Tetrachloroethane	9.914	131	1115	0.52	ug/L	89
81) Ethylbenzene	9.951	106	1701	0.50	ug/L	99
82) (m+p)Xylene	10.061	106	4048	0.94	ug/L #	81
83) o-Xylene	10.420	106	2175	0.53	ug/L	92
84) Styrene	10.433	104	3349	0.48	ug/L	96
85) Bromoform	10.585	173	798	0.76	ug/L	73
86) 2-Chlorobenzotrifluoride	10.670	180	1787	0.50	ug/L #	78
87) Isopropylbenzene	10.756	105	5412	0.50	ug/L	97
88) Cyclohexanone	10.817	55	8569	11.47	ug/L	98
89) trans-1,4-Dichloro-2-B...	11.055	53	640	0.85	ug/L	90
91) 1,1,2,2-Tetrachloroethane	11.012	83	1599	0.52	ug/L	84
92) Bromobenzene	11.000	156	1283	0.50	ug/L #	35
93) 1,2,3-Trichloropropane	11.042	110	653	0.70	ug/L #	78
94) n-Propylbenzene	11.109	91	6716	0.56	ug/L	96
95) 2-Chlorotoluene	11.170	91	4431	0.62	ug/L	87
96) 3-Chlorotoluene	11.225	91	3400	0.48	ug/L	93
97) 4-Chlorotoluene	11.268	91	4748	0.56	ug/L	84
98) 1,3,5-Trimethylbenzene	11.262	105	4553	0.56	ug/L	97
99) tert-Butylbenzene	11.536	119	3837	0.55	ug/L	96
100) 1,2,4-Trimethylbenzene	11.573	105	4163	0.52	ug/L	87
101) 3,4-Dichlorobenzotrifl...	11.634	214	1299	0.47	ug/L	92
102) sec-Butylbenzene	11.713	105	5603	0.54	ug/L	93
103) p-Isopropyltoluene	11.841	119	4640	0.53	ug/L	90
104) 1,3-Dclbenz	11.798	146	2569	0.51	ug/L	92
105) 1,4-Dclbenz	11.871	146	2753	0.52	ug/L	85
106) 2,4-Dichlorobenzotrifl...	11.926	214	1246m	0.49	ug/L	
107) 2,5-Dichlorobenzotrifl...	11.969	214	1329	0.47	ug/L	93
108) n-Butylbenzene	12.170	91	4502	0.54	ug/L	90
109) 1,2-Dclbenz	12.176	146	2245	0.45	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.804	157	372	1.08	ug/L #	73

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 11 13:03:01 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

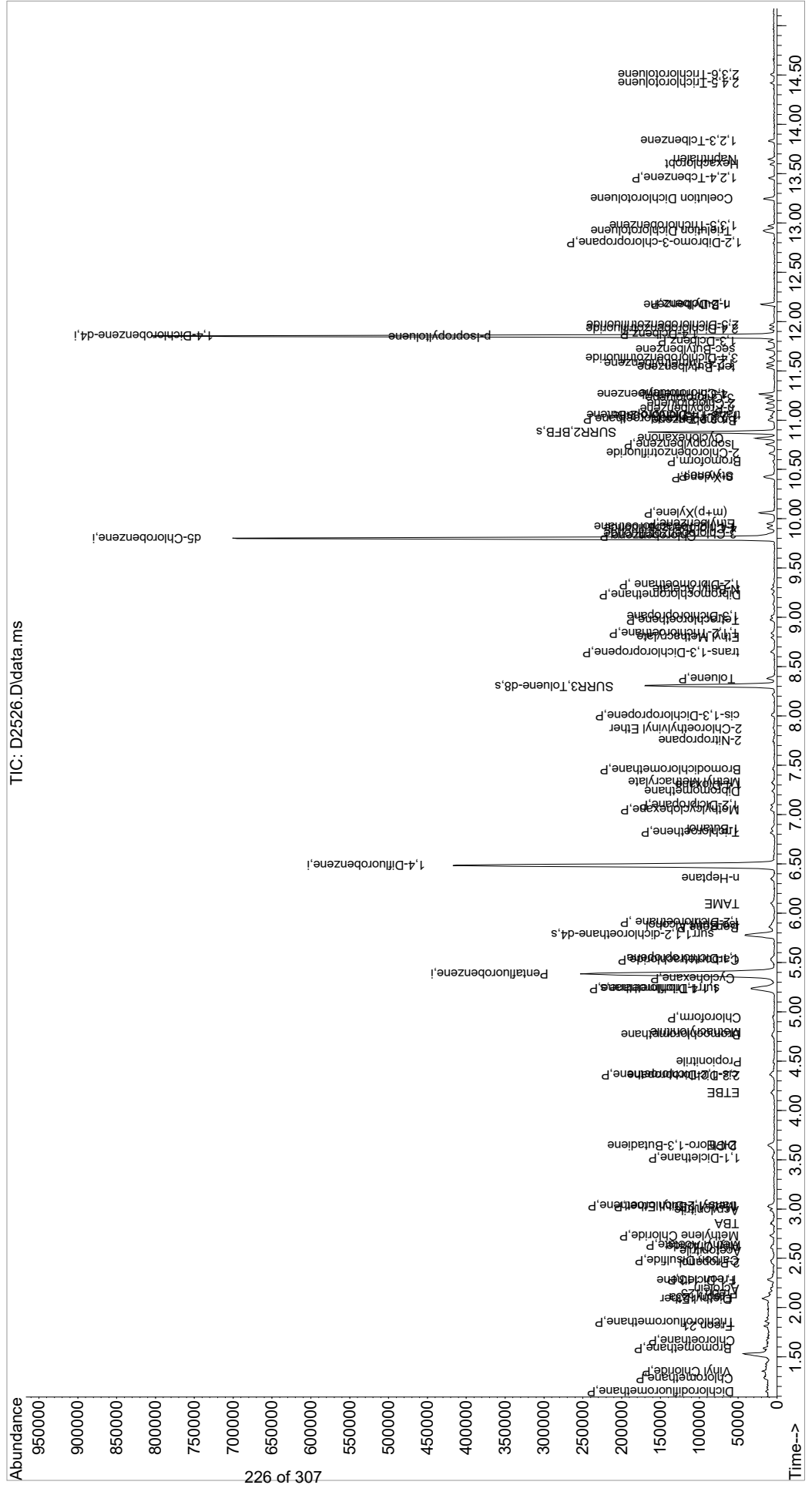
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) Trielution Dichlorotol...	12.920	125	6409	1.58	ug/L	91
112) 1,3,5-Trichlorobenzene	12.975	180	1786	0.47	ug/L	89
113) Coelution Dichlorotoluene	13.249	125	4373	0.98	ug/L	93
114) 1,2,4-Tcbenzene	13.456	180	1704	0.47	ug/L	87
115) Hexachlorobt	13.597	225	834	0.53	ug/L	90
116) Naphthalen	13.645	128	4255	0.51	ug/L	85
117) 1,2,3-Tclbenzene	13.834	180	1724	0.50	ug/L	96
118) 2,4,5-Trichlorotoluene	14.420	159	875	0.46	ug/L	96
119) 2,3,6-Trichlorotoluene	14.505	159	926	0.52	ug/L	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\041118\  
 Data File : D2526.D  
 Acq On : 11 Apr 2018 11:20 am  
 Operator : D.LIPANI  
 Sample : STD #1 - 0.5 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

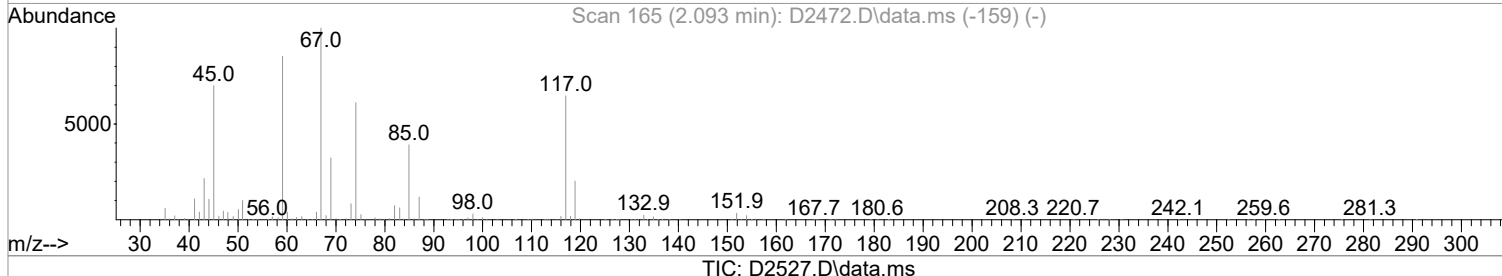
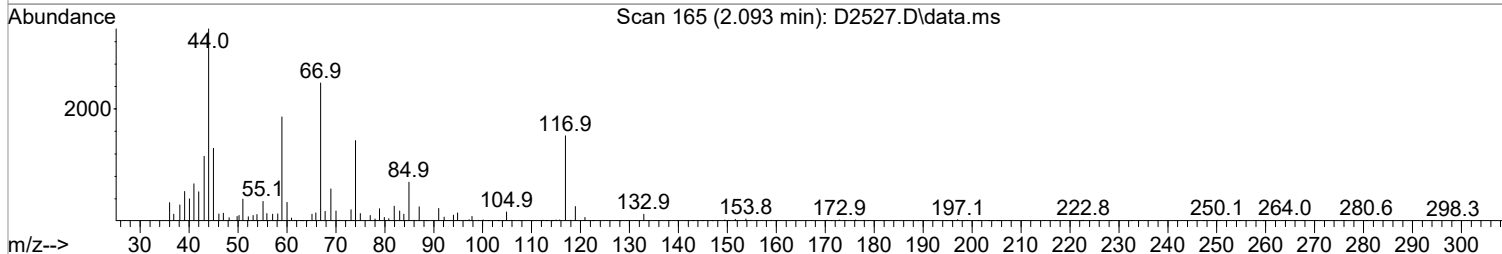
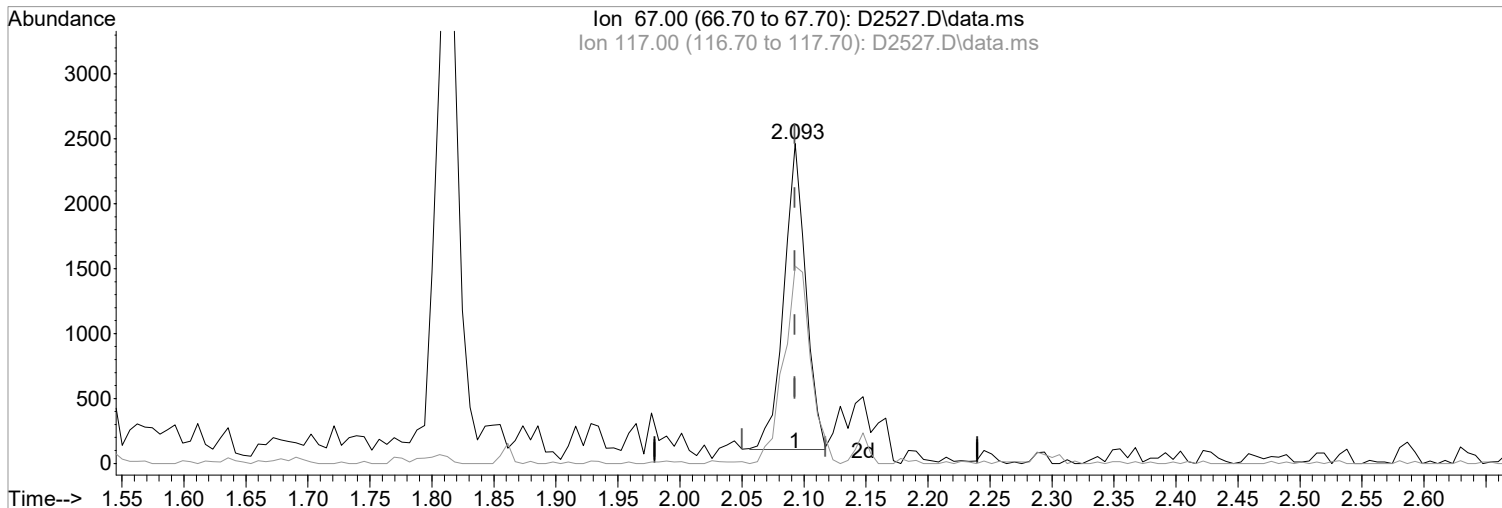
Quant Time: Apr 11 13:03:01 2018  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(10) Freon 123a  
2.093min (-0.000) 1.03 ug/L m  
response 2901

Manual Integration:

After

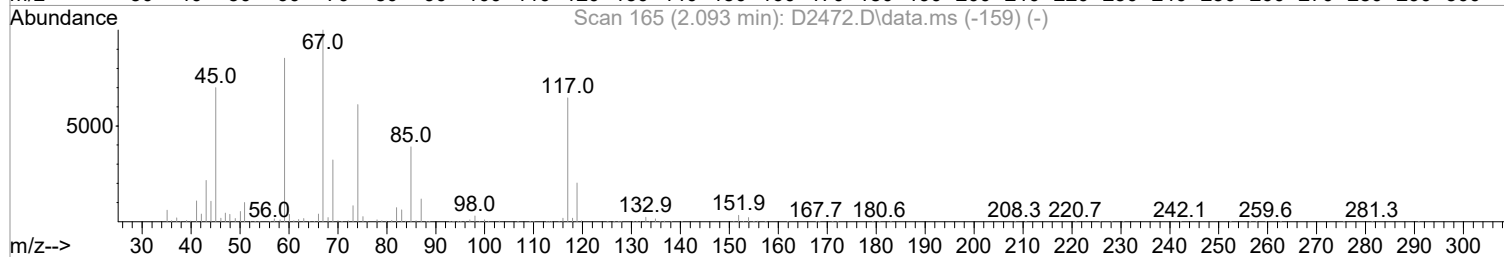
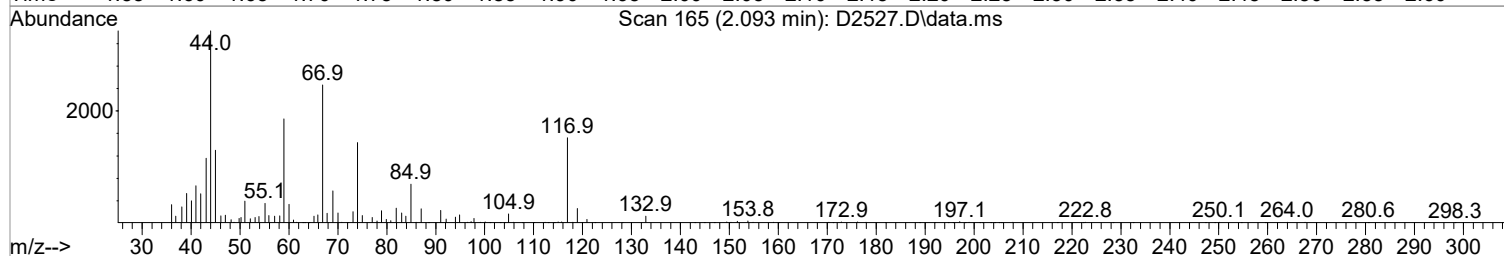
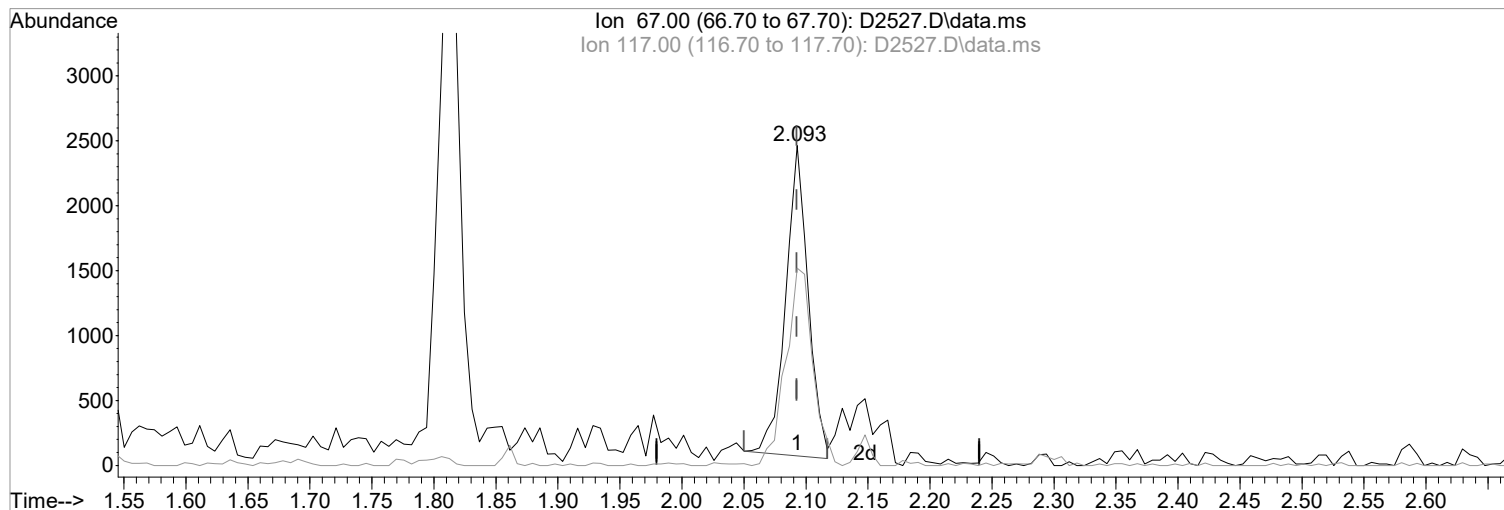
Poor integration.

04/11/18

Ion	Exp%	Act%
67.00	100	100
117.00	64.70	61.71
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2527.D  
 Acq On : 11 Apr 2018 11:41 am  
 Operator : D.LIPANI  
 Sample : STD #2 - 1.0 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 7 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

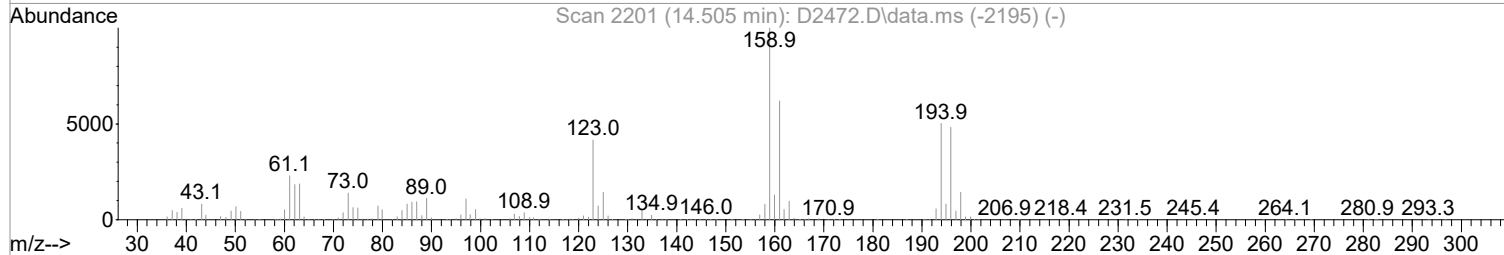
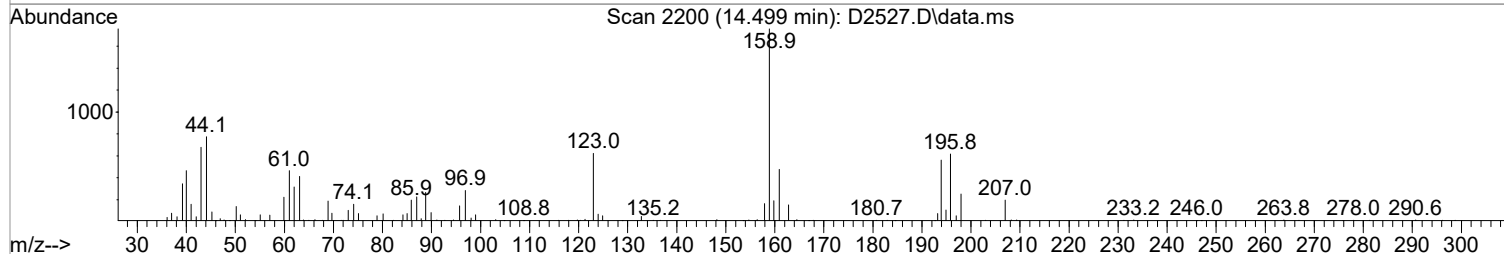
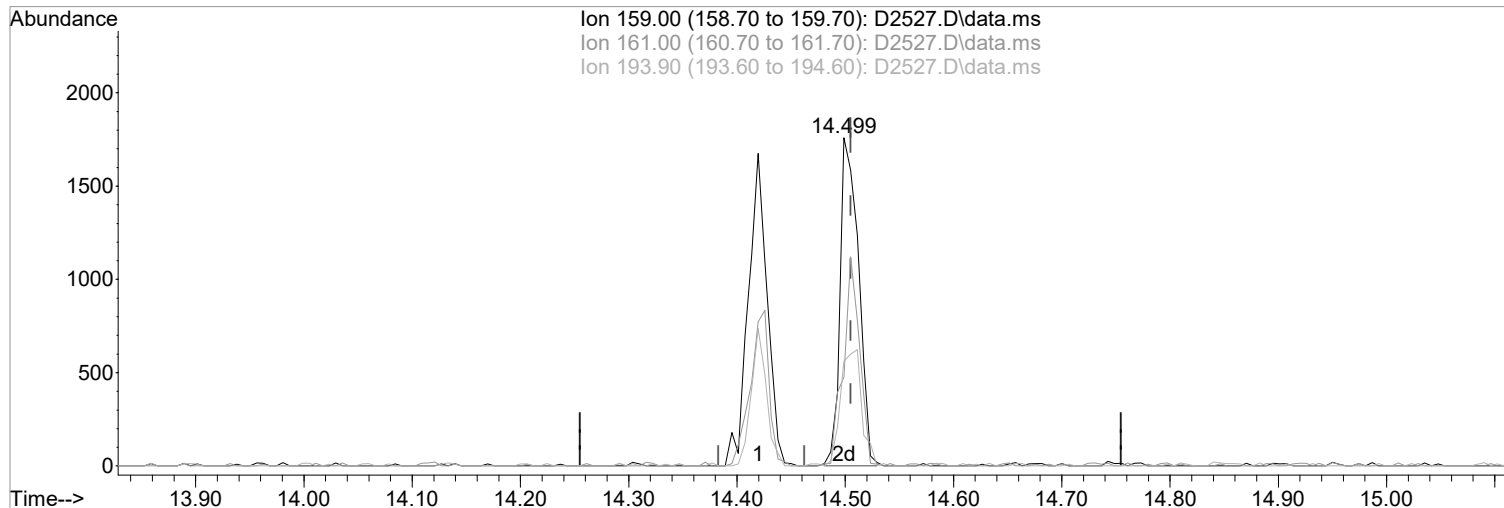


(10) Freon 123a Manual Integration:  
 2.093min (-0.000) 1.07 ug/L Before  
 response 3008  
 04/11/18

Ion	Exp%	Act%
67.00	100	100
117.00	64.70	61.71
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2527.D\data.ms

(119) 2,3,6-Trichlorotoluene  
14.499min (-0.006) 1.19 ug/L m  
response 2080

Manual Integration:  
After  
Wrong peak selected.

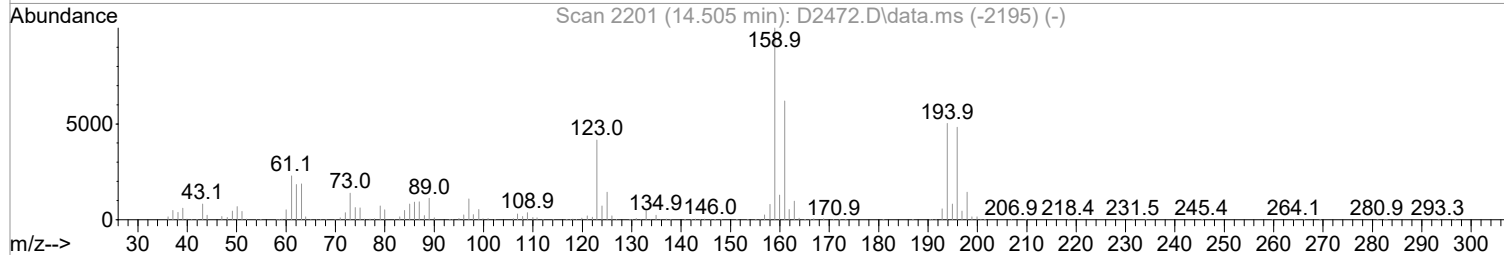
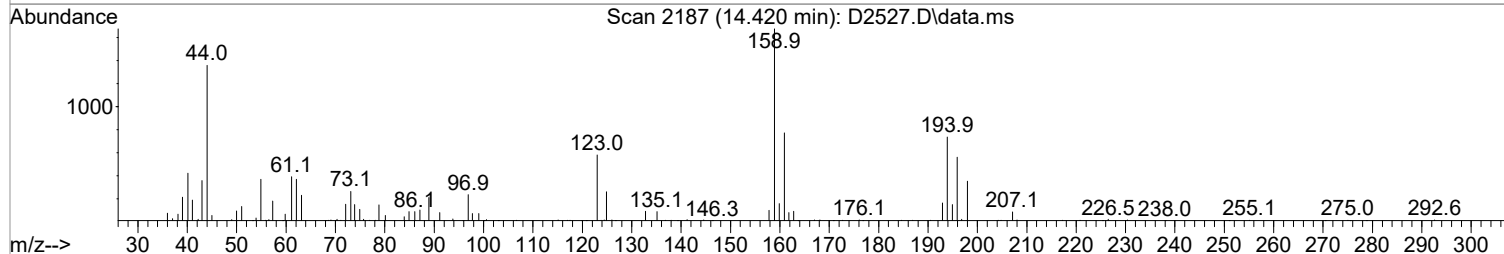
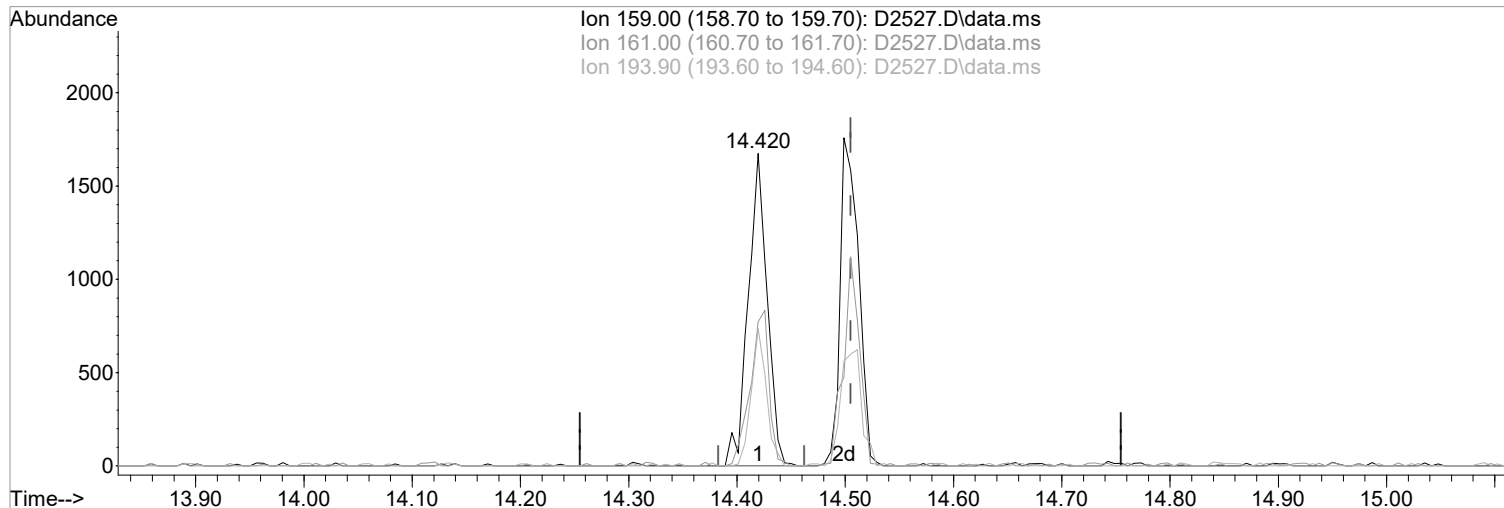
Ion	Exp%	Act%
159.00	100	100
161.00	61.90	27.06#
193.90	50.20	31.89
0.00	0.00	0.00

04/11/18



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(119) 2,3,6-Trichlorotoluene  
14.420min (-0.085) 1.17 ug/L  
response 2054

Manual Integration:  
Before

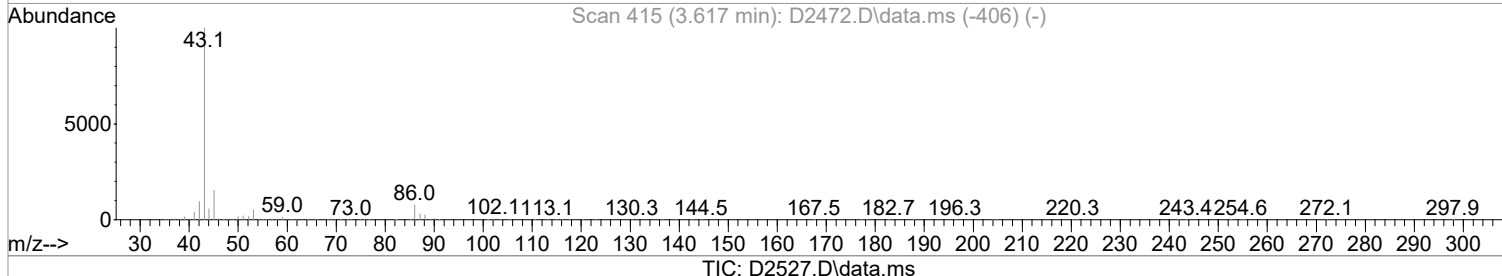
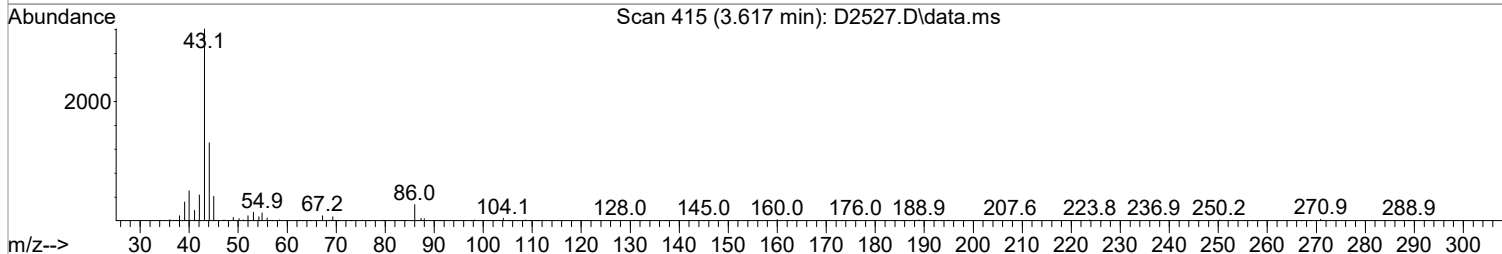
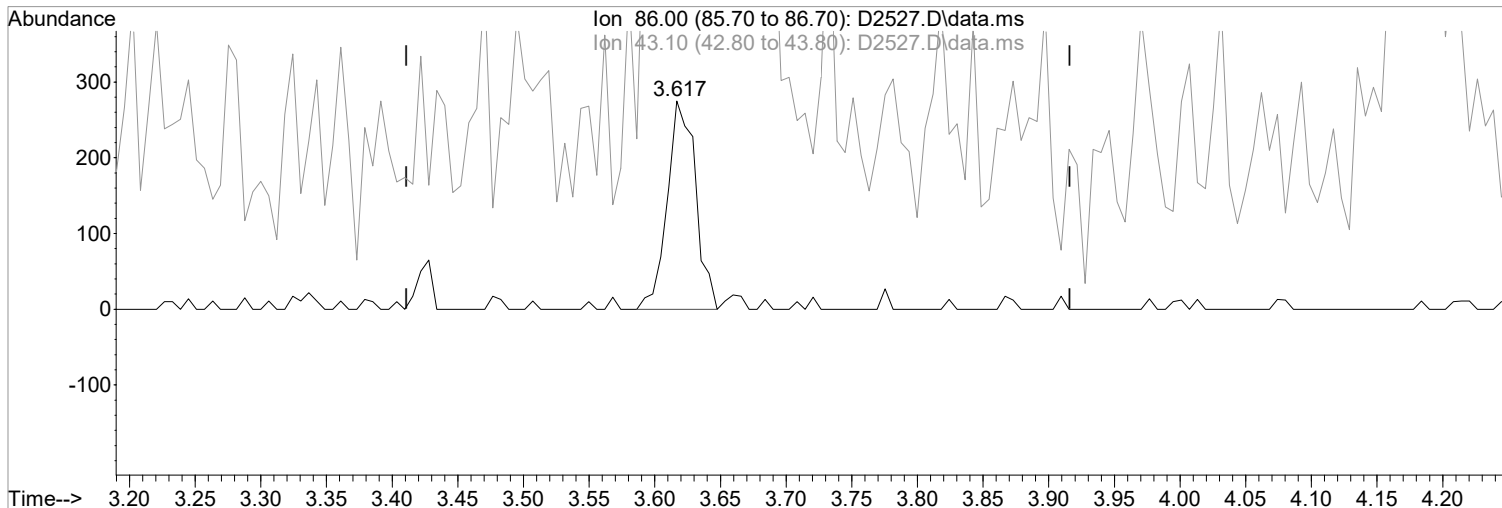
Ion	Exp%	Act%
159.00	100	100
161.00	61.90	46.15
193.90	50.20	43.94
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(28) Vinyl Acetate  
3.617min (+0.007) 0.87 ug/L m  
response 410

Manual Integration:

After

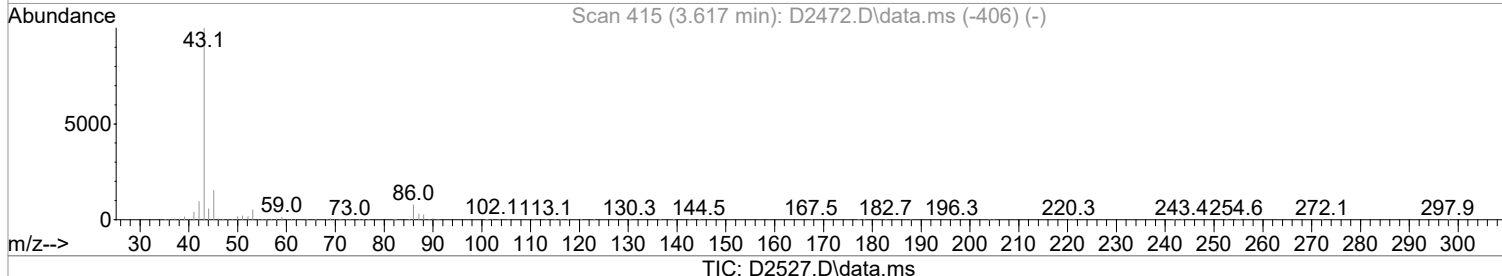
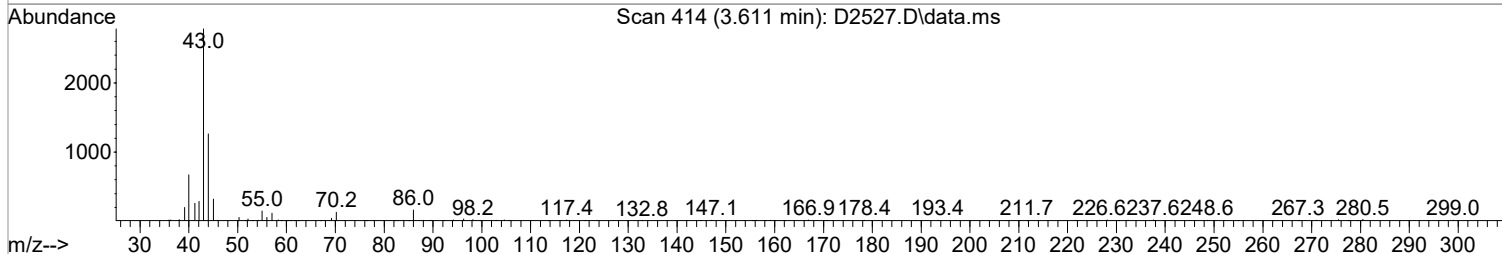
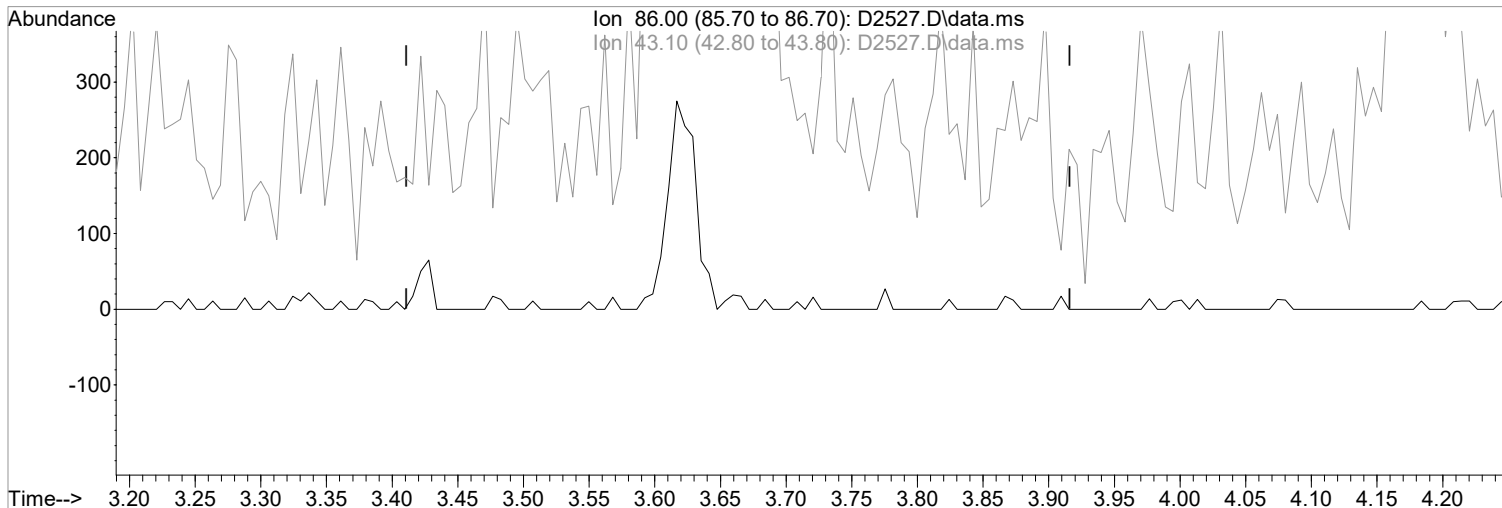
Peak not found.

Ion	Exp%	Act%
86.00	100	100
43.10	1306.20	1168.36#
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(28) Vinyl Acetate  
3.610min (-3.610) 0.00 ug/L  
response 0

Manual Integration:  
Before

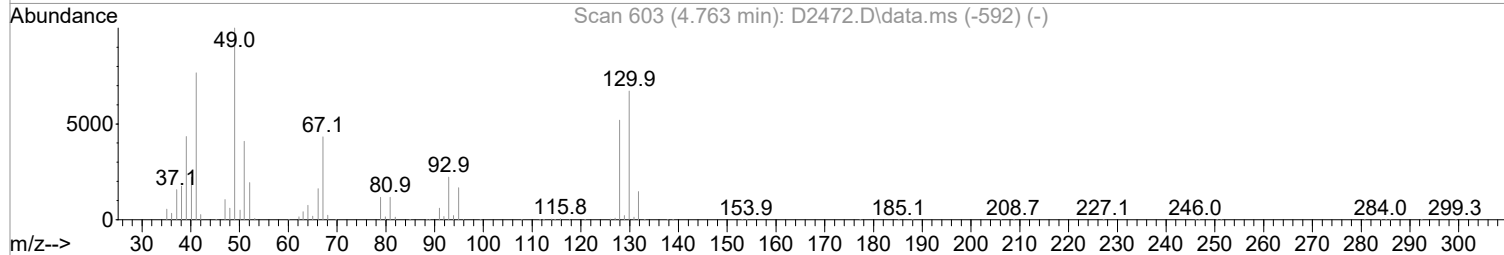
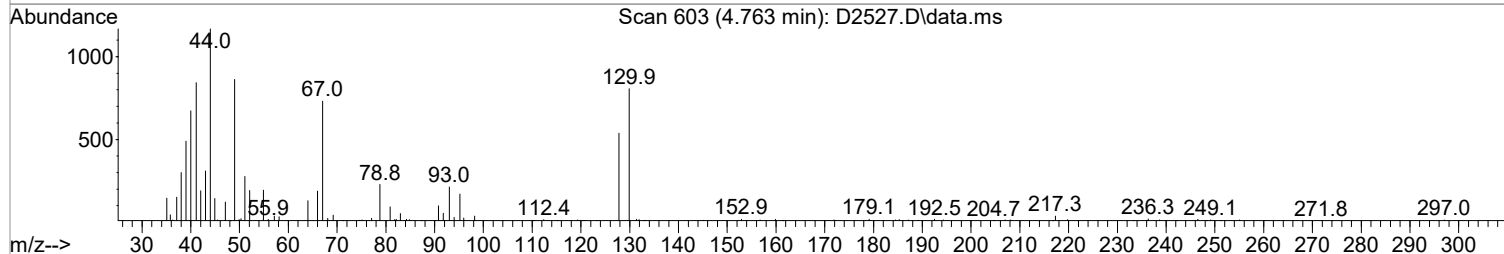
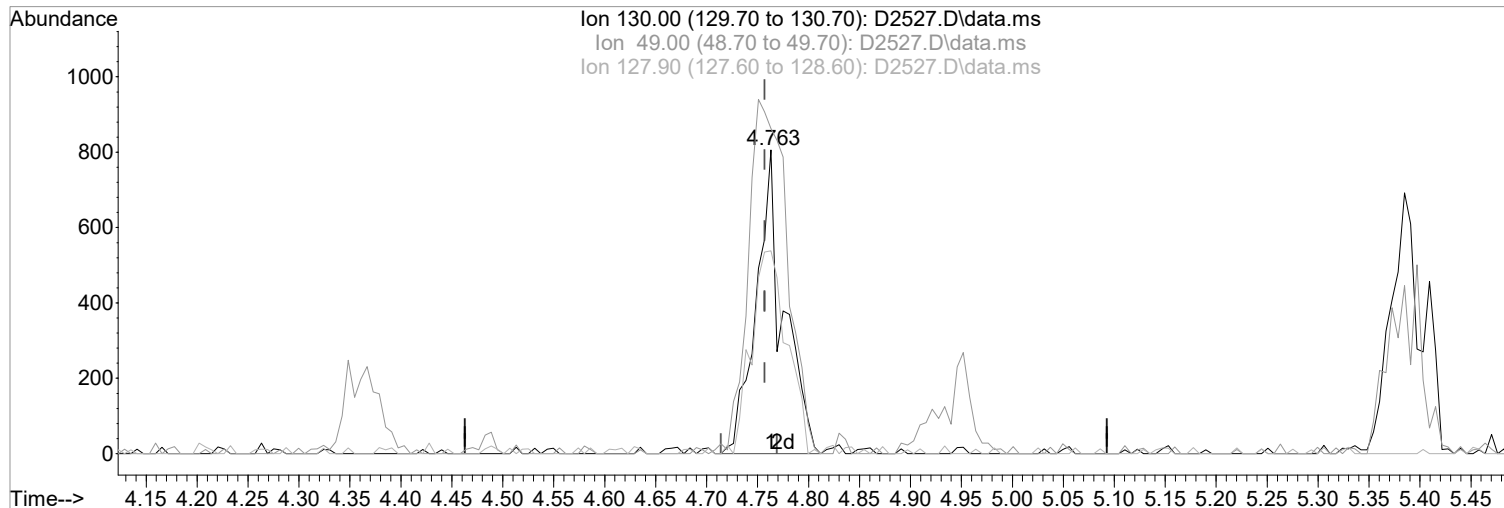
Ion	Exp%	Act%
86.00	100	0.00
43.10	1306.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration

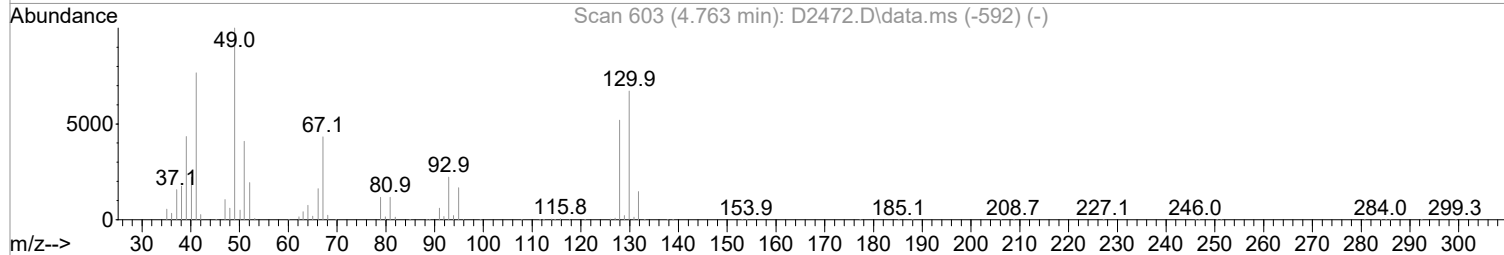
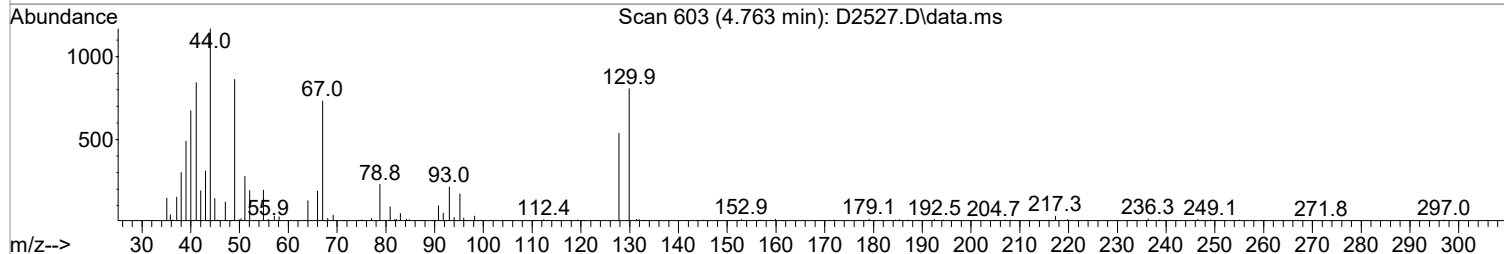
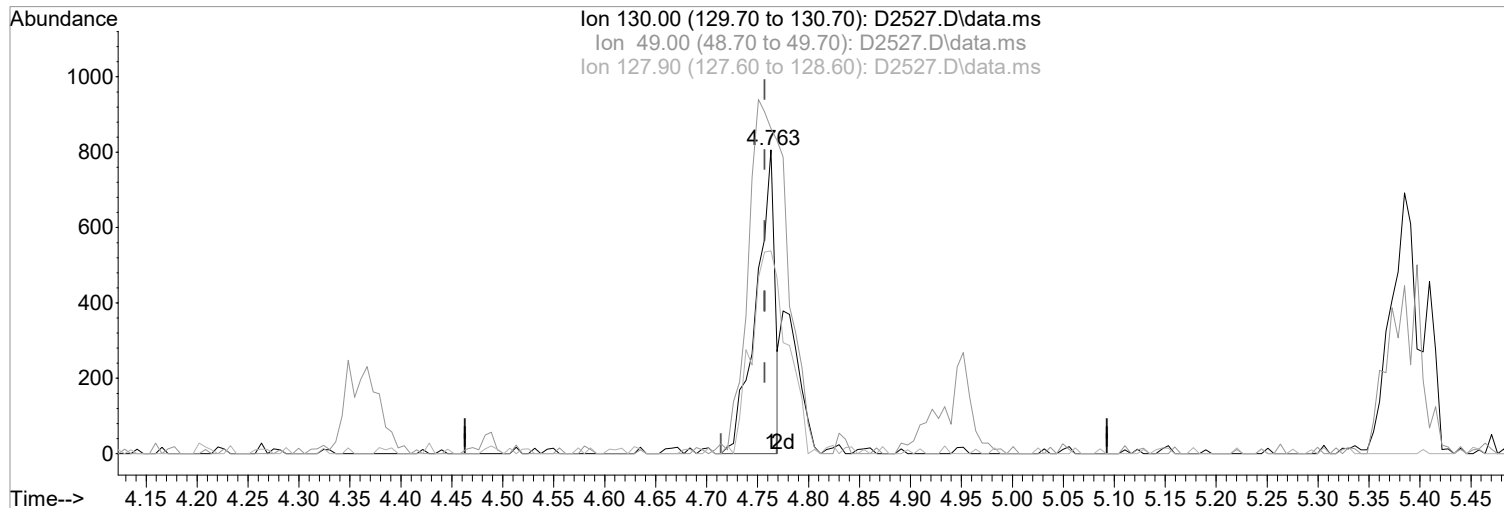


(36) Bromochloromethane  
4.763min (+0.006) 0.98 ug/L m  
response 1506  
Ion Exp% Act%  
130.00 100 100  
49.00 149.10 107.07#  
127.90 77.50 66.75  
0.00 0.00 0.00

Manual Integration:  
After  
Poor integration.  
04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(36) Bromochloromethane  
4.763min (+0.006) 0.67 ug/L  
response 1028

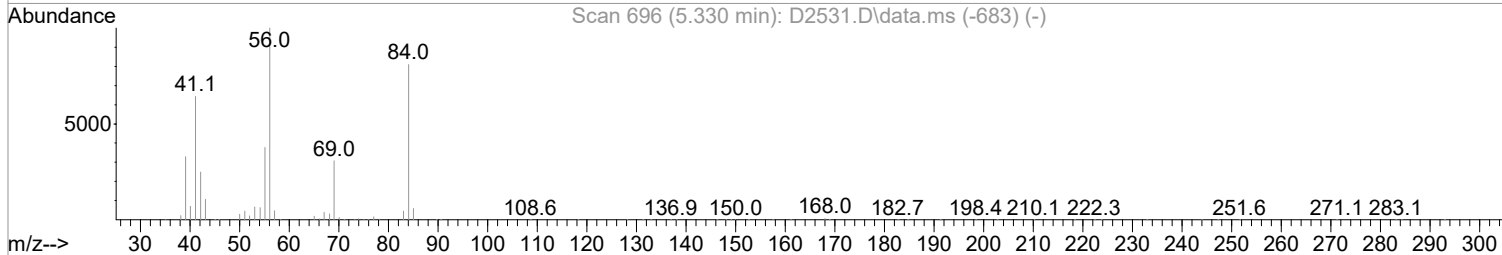
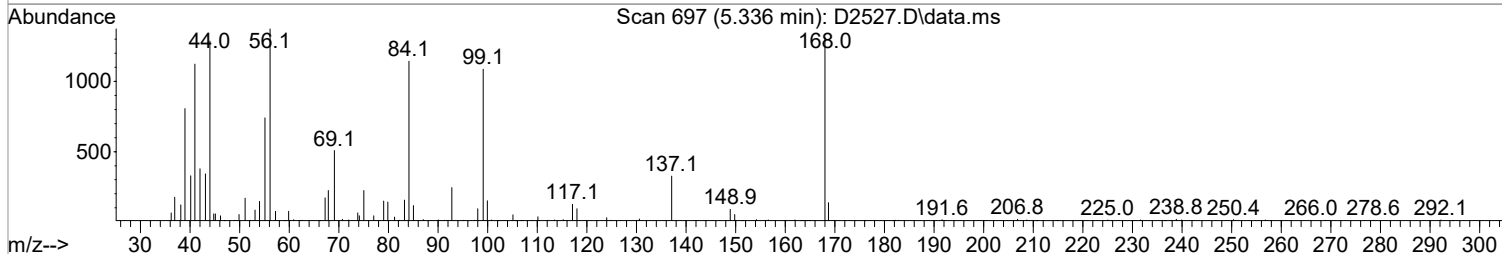
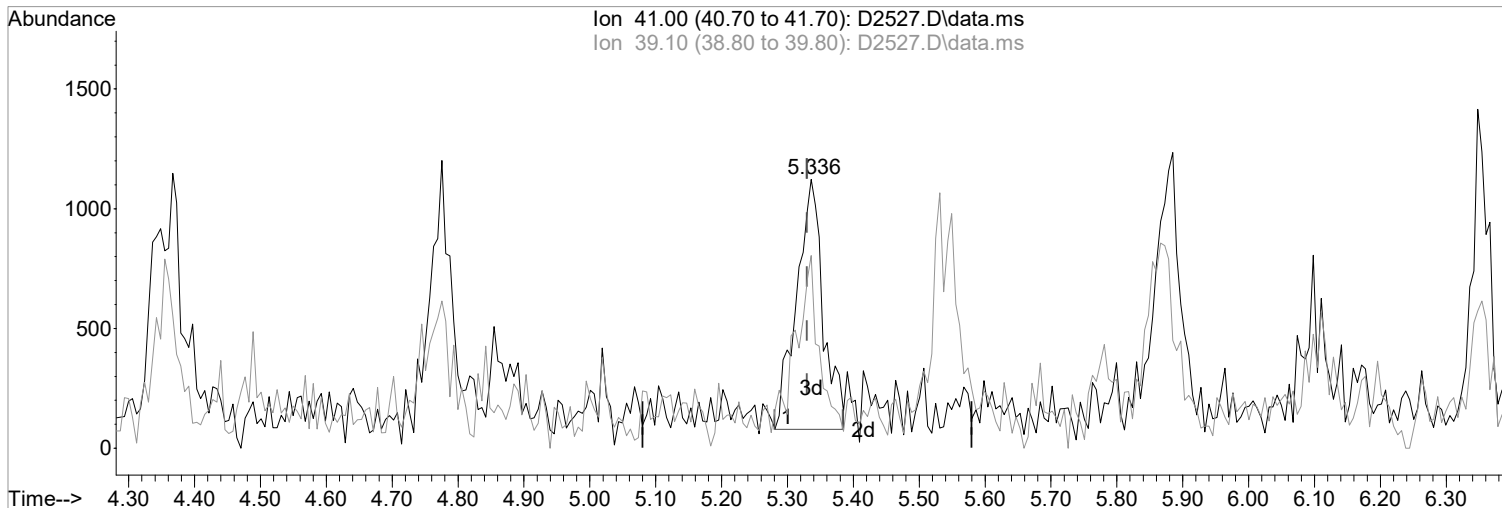
Manual Integration:  
Before

Ion	Exp%	Act%
130.00	100	100
49.00	149.10	107.07#
127.90	77.50	66.75
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 16:24:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(42) Cyclohexane (P)  
5.336min (+0.006) 1.16 ug/L m  
response 2939

Manual Integration:  
After  
Wrong peak selected.

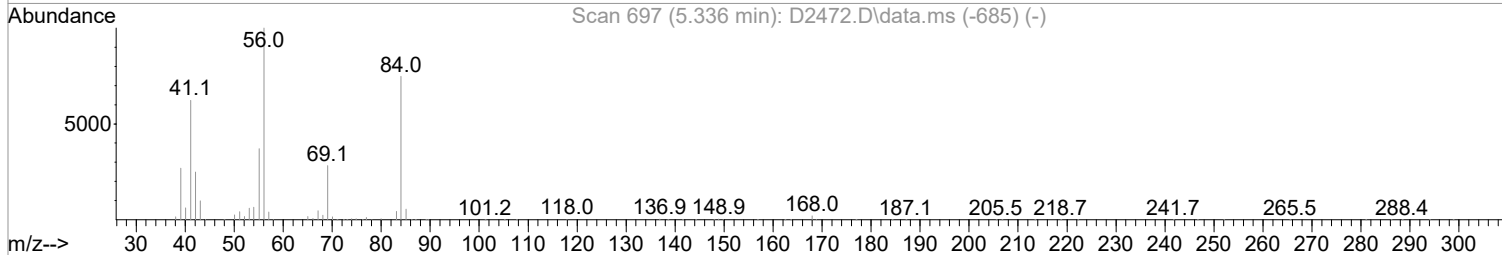
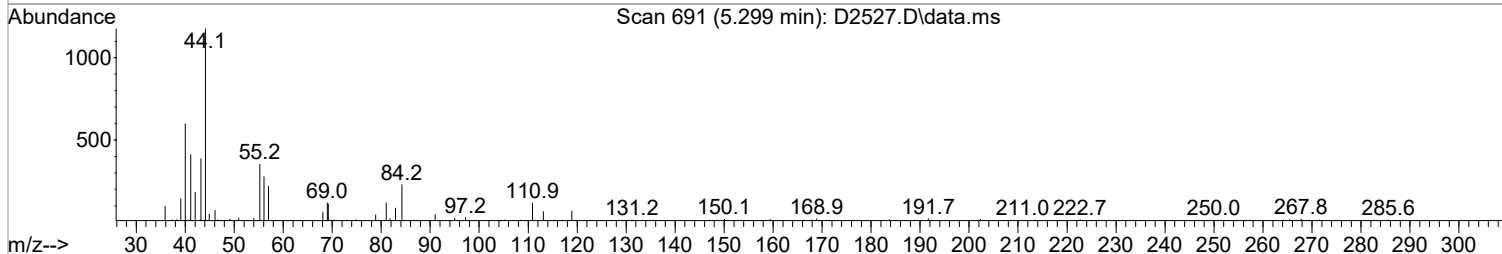
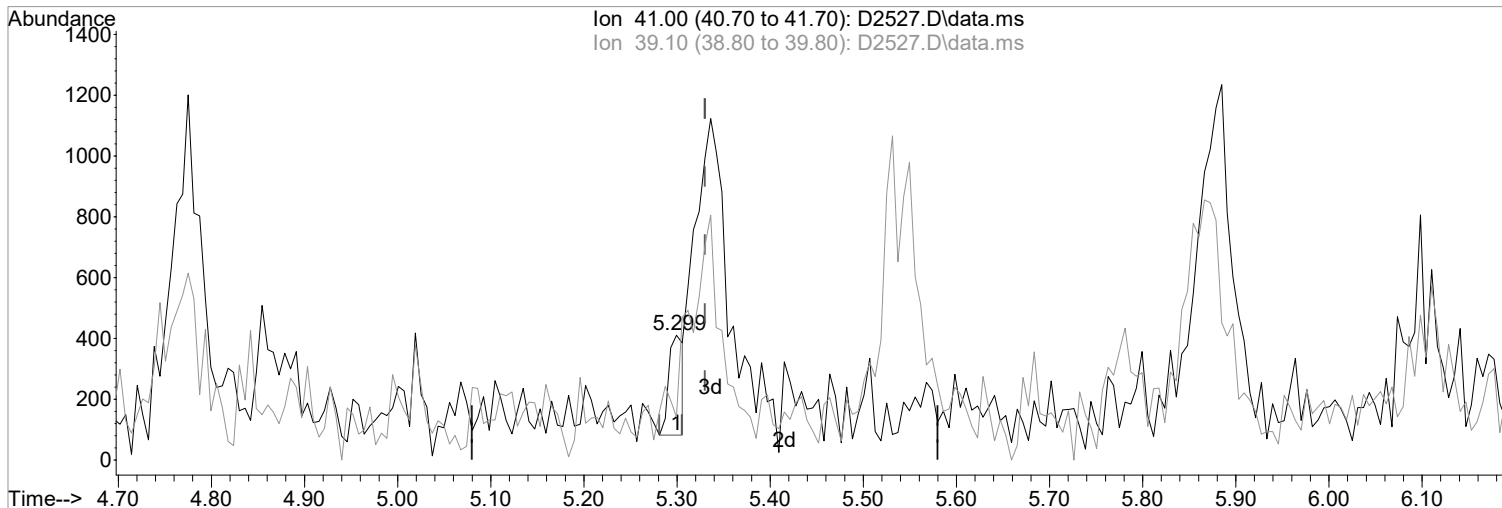
Ion	Exp%	Act%
41.00	100	100
39.10	43.50	71.68#
0.00	0.00	0.00
0.00	0.00	0.00

04/12/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(42) Cyclohexane (P)  
5.299min (-0.031) 0.14 ug/L  
response 356

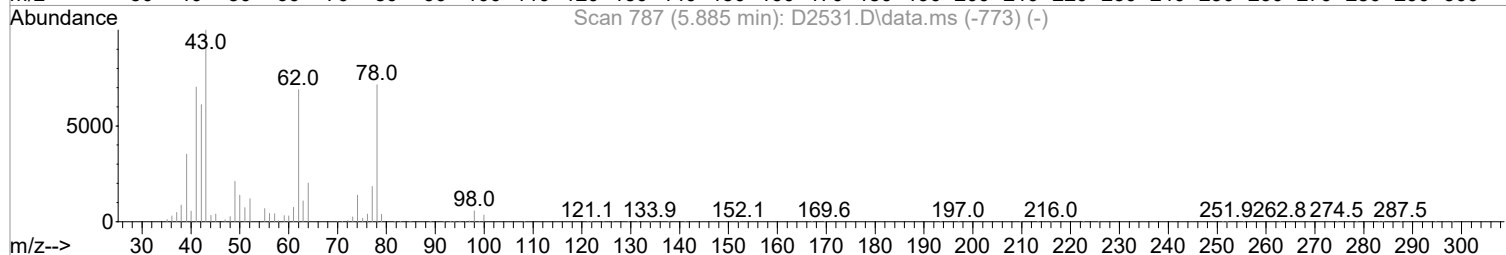
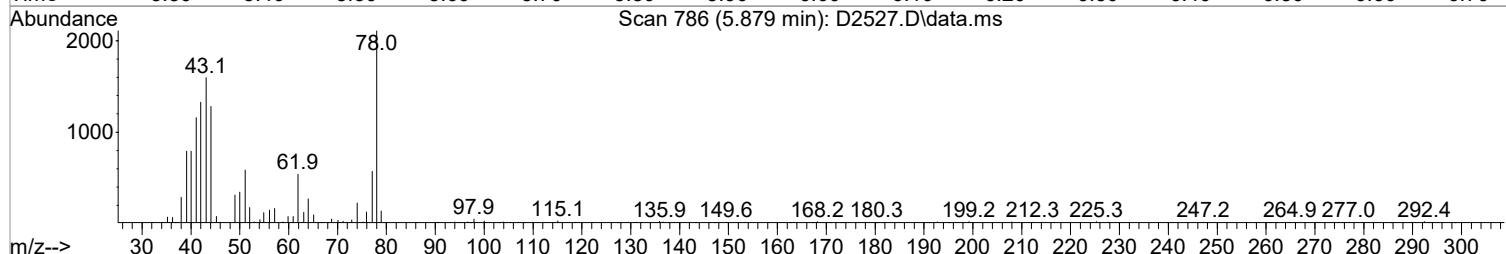
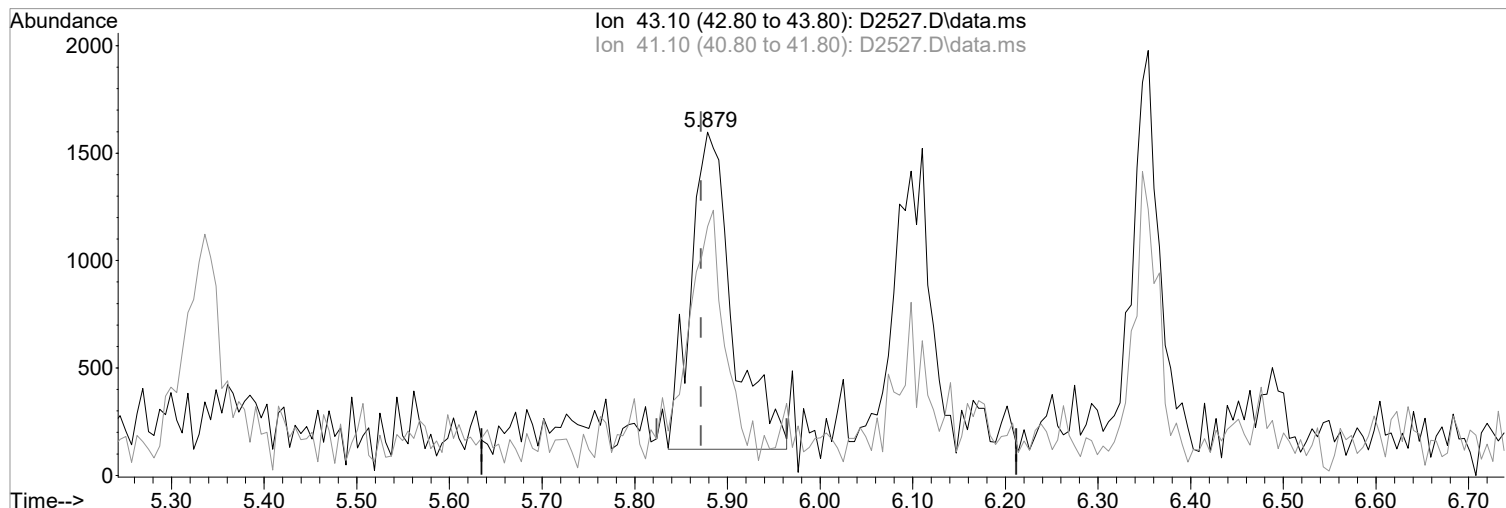
Manual Integration:  
Before

Ion	Exp%	Act%
41.00	100	100
39.10	43.50	34.63
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 13:12:28 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(49) Iso-Butyl Alcohol

5.879min (+0.007) 28.74 ug/L m

response 4639

Ion	Exp%	Act%
43.10	100	100
41.10	75.70	72.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

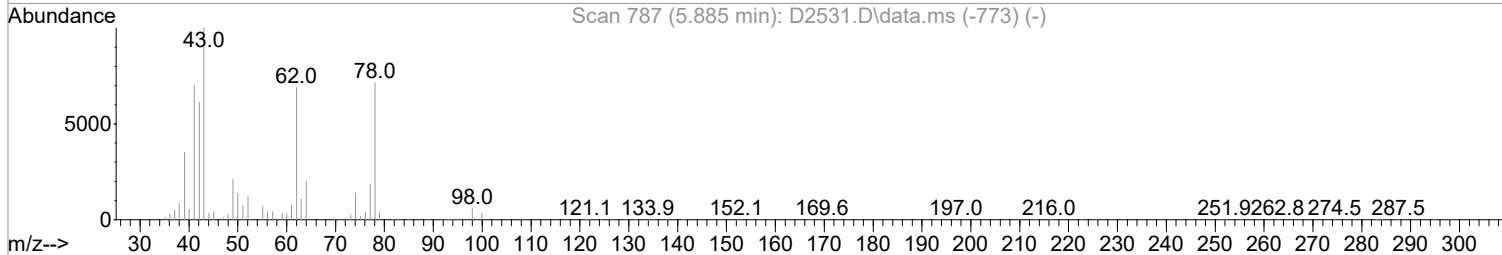
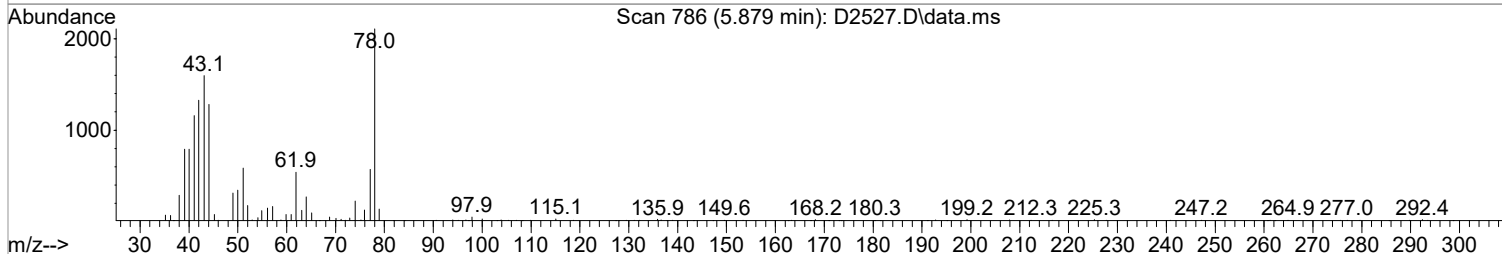
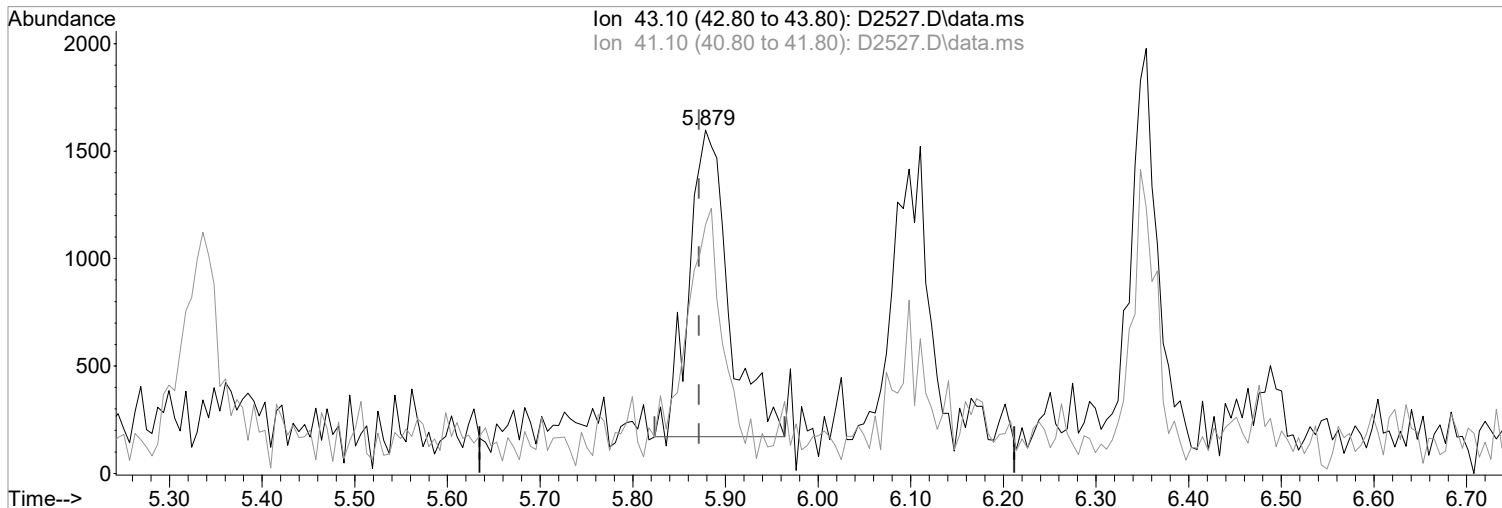
Poor integration.

04/11/18



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 13:12:28 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(49) Iso-Butyl Alcohol  
5.879min (+0.007) 26.58 ug/L  
response 4290

Manual Integration:  
Before

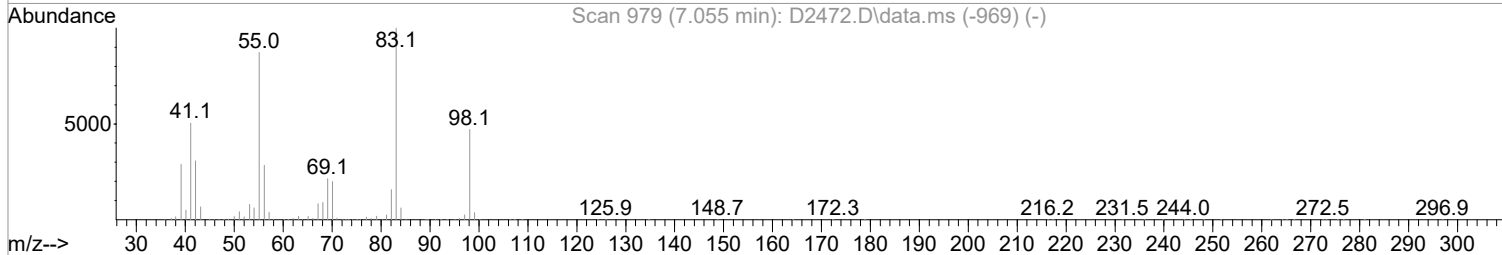
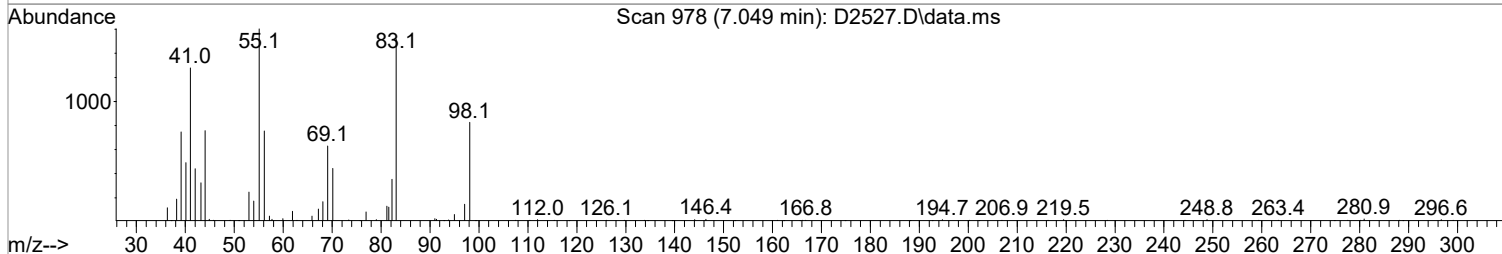
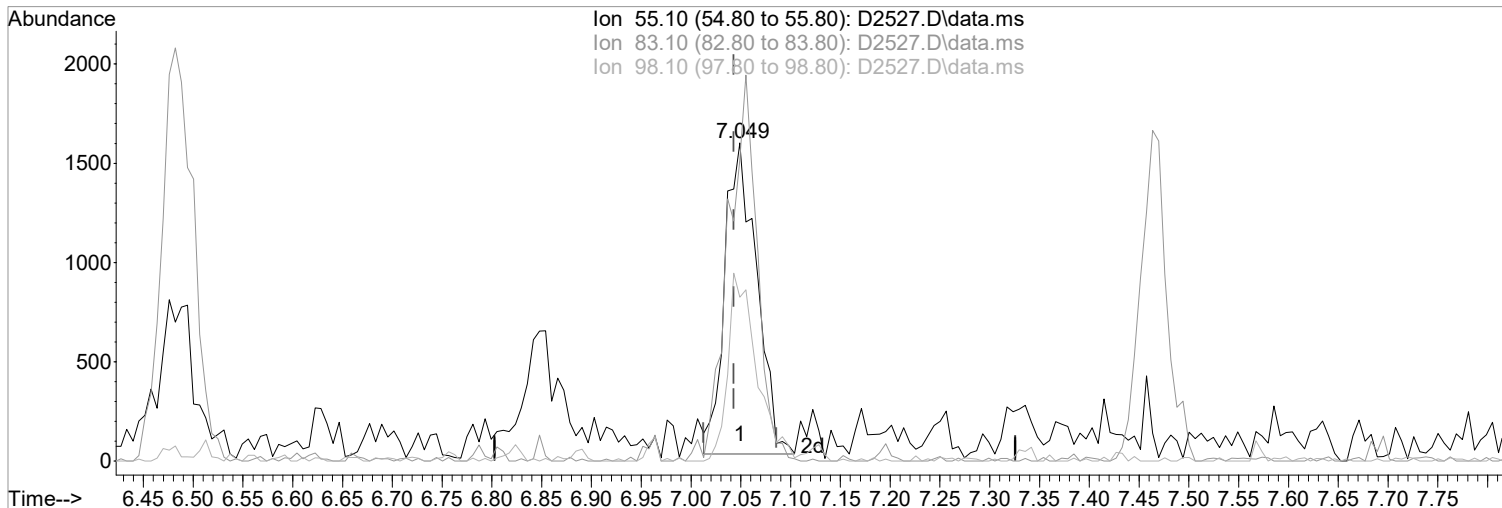
Ion	Exp%	Act%
43.10	100	100
41.10	75.70	72.47
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(54) Methylcyclohexane (P)  
7.049min (+0.006) 1.08 ug/L m  
response 3465

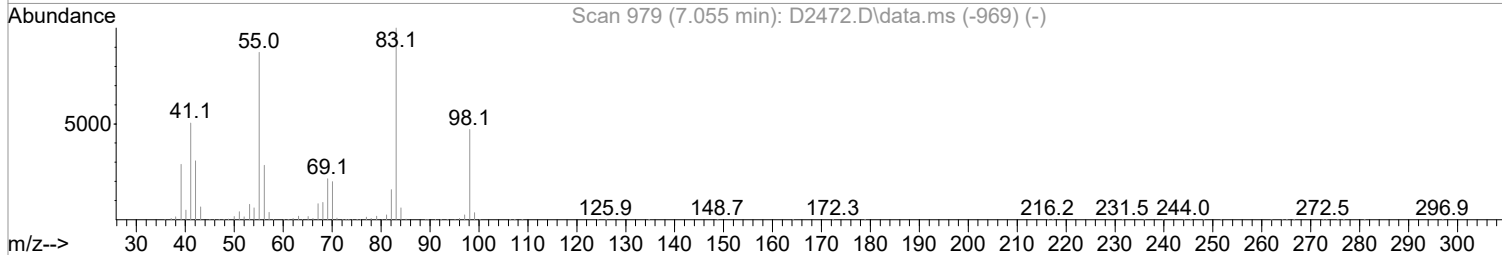
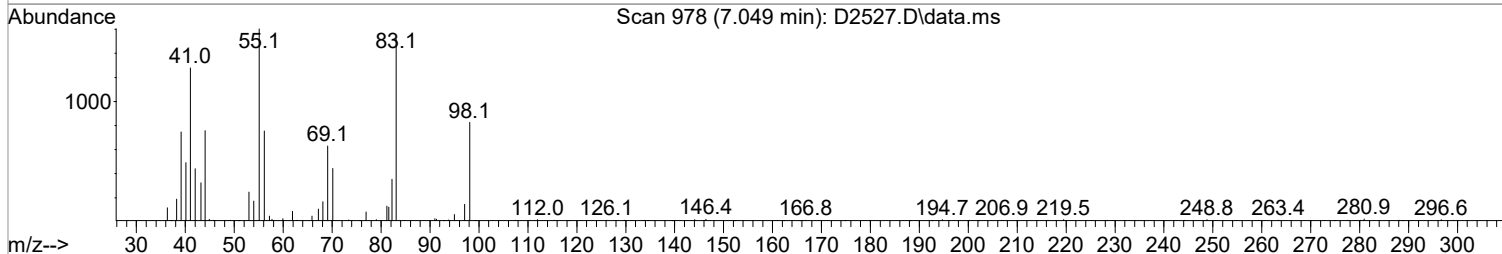
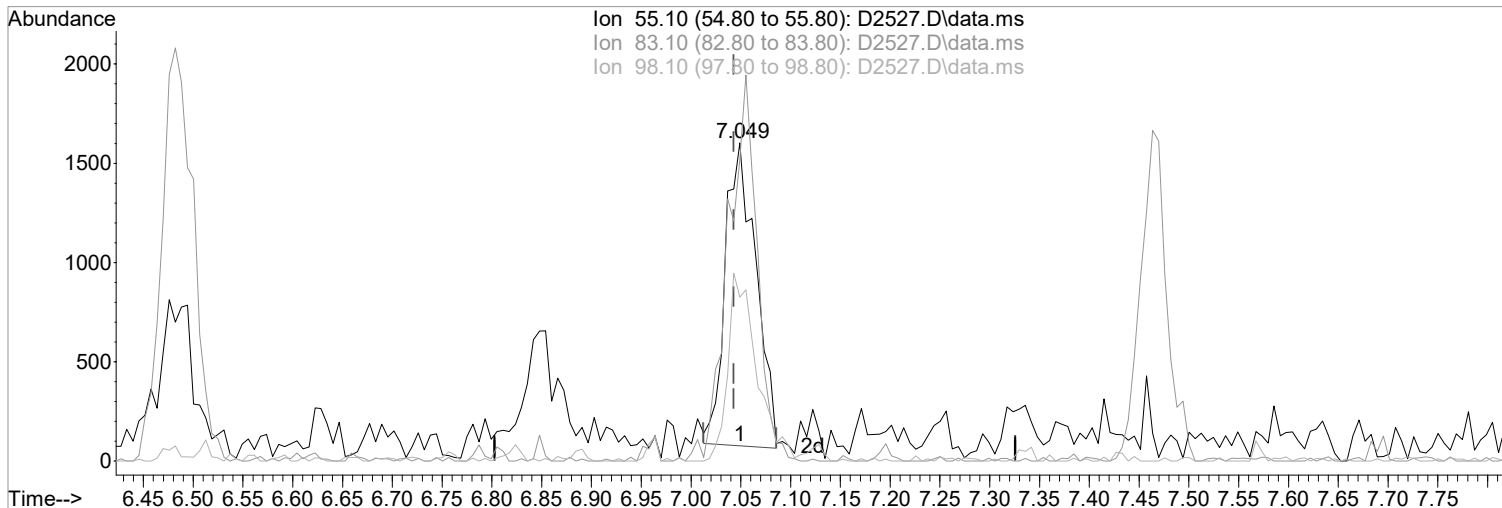
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
55.10	100	100
83.10	114.30	94.70
98.10	53.80	51.53
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(54) Methylcyclohexane (P)

7.049min (+0.006) 1.01 ug/L

response 3248

Ion	Exp%	Act%
55.10	100	100
83.10	114.30	94.70
98.10	53.80	51.53
0.00	0.00	0.00

Manual Integration:

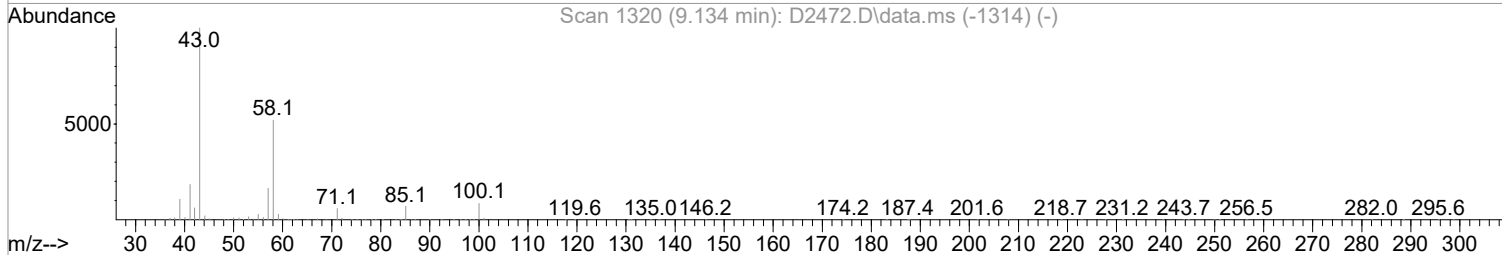
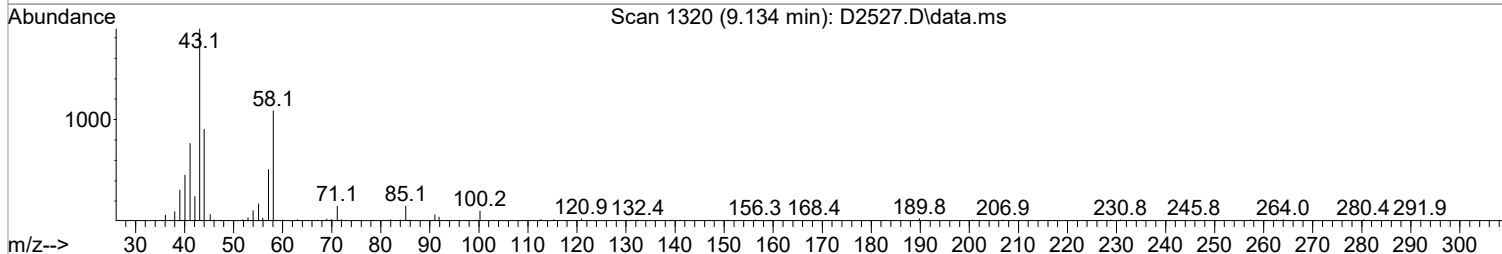
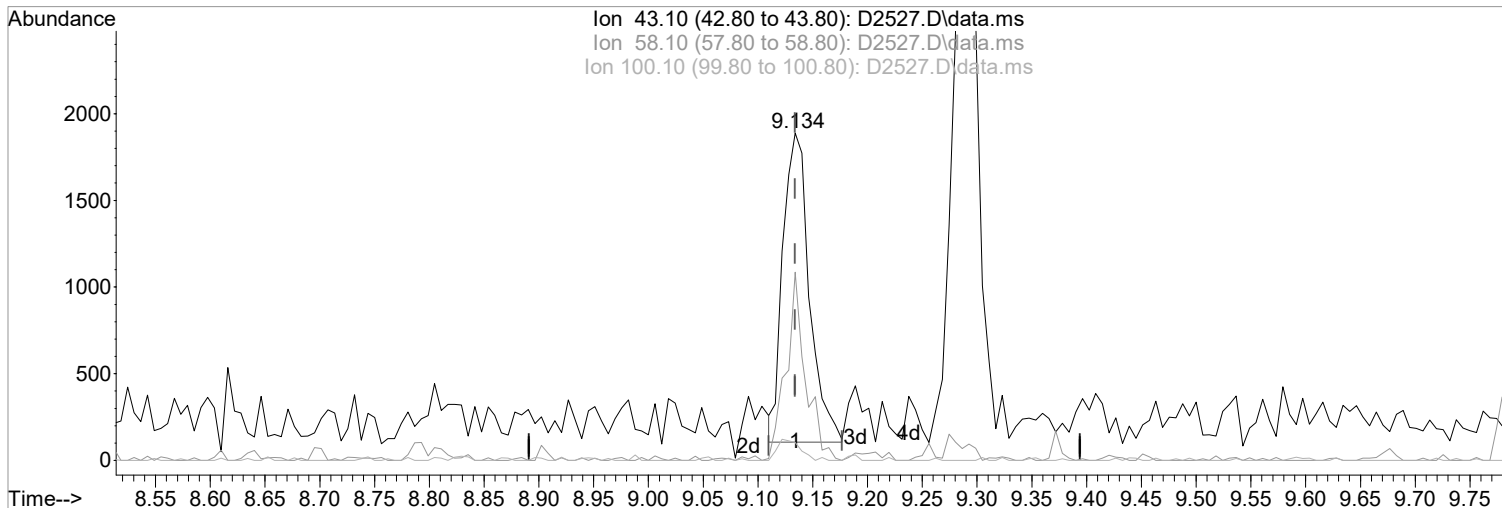
Before

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(72) 2-Hexanone (P)  
9.134min (+0.000) 1.26 ug/L m  
response 3000

Manual Integration:  
After  
Poor integration.

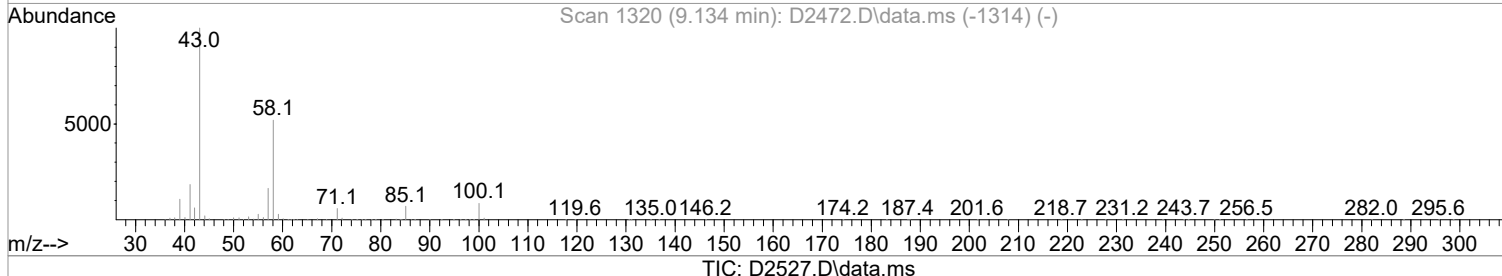
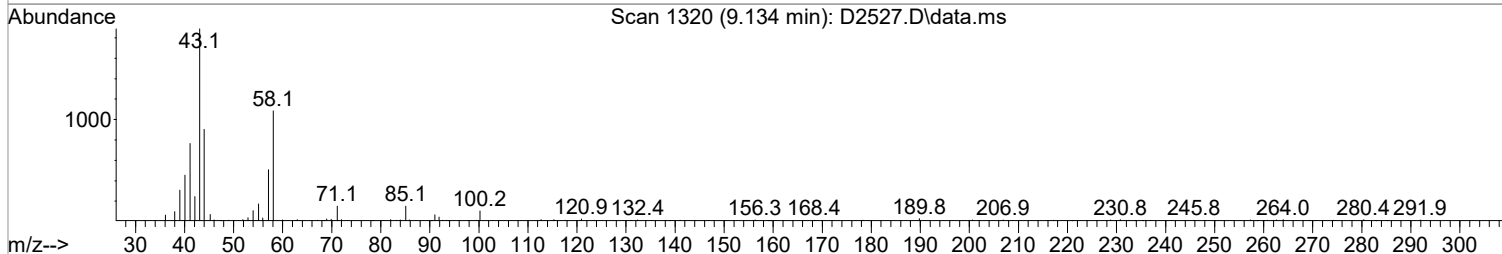
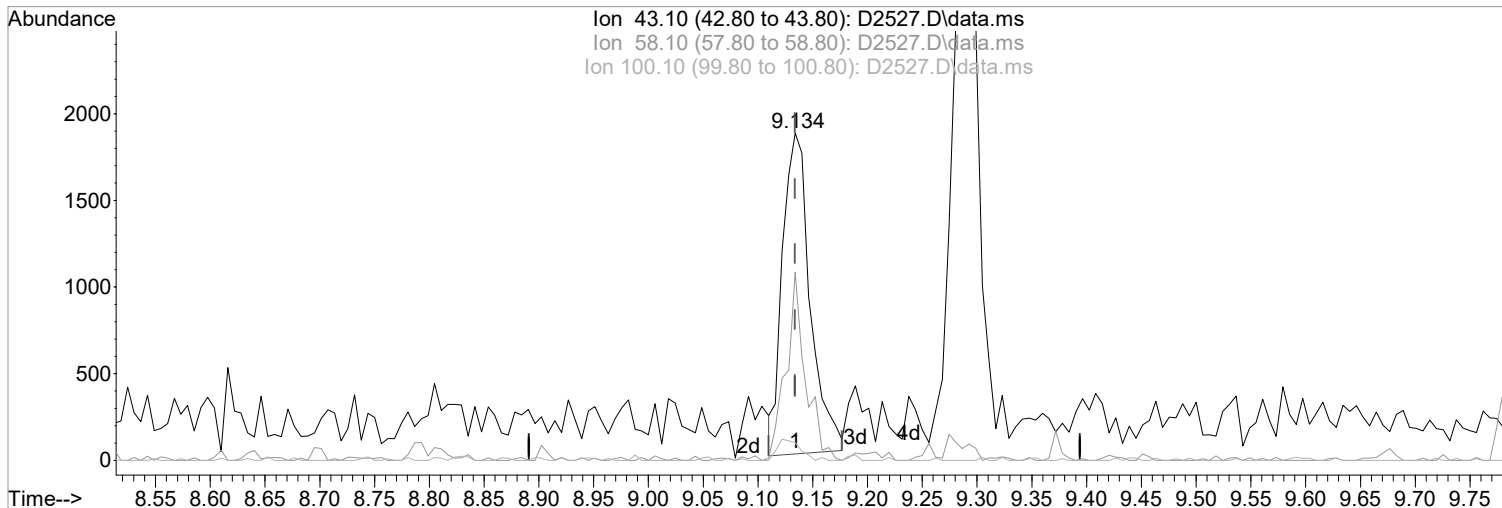
Ion	Exp%	Act%
43.10	100	100
58.10	51.90	57.52
100.10	8.60	5.46
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(72) 2-Hexanone (P)  
9.134min (+0.000) 1.36 ug/L  
response 3255

Manual Integration:  
Before

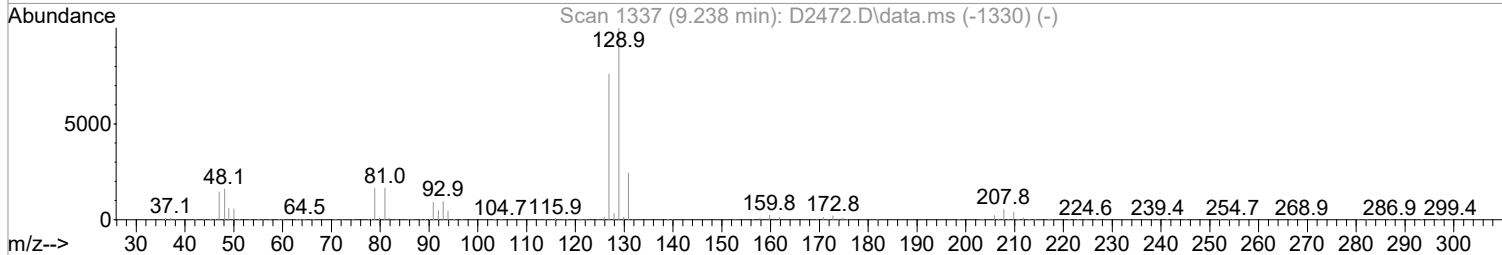
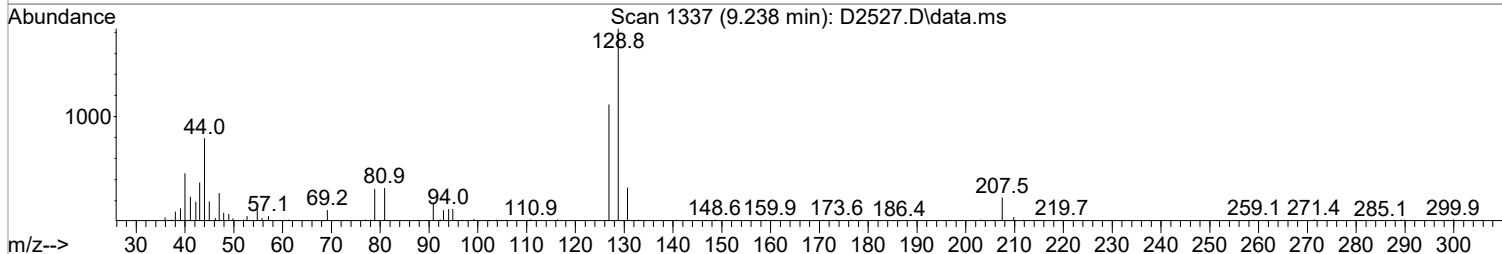
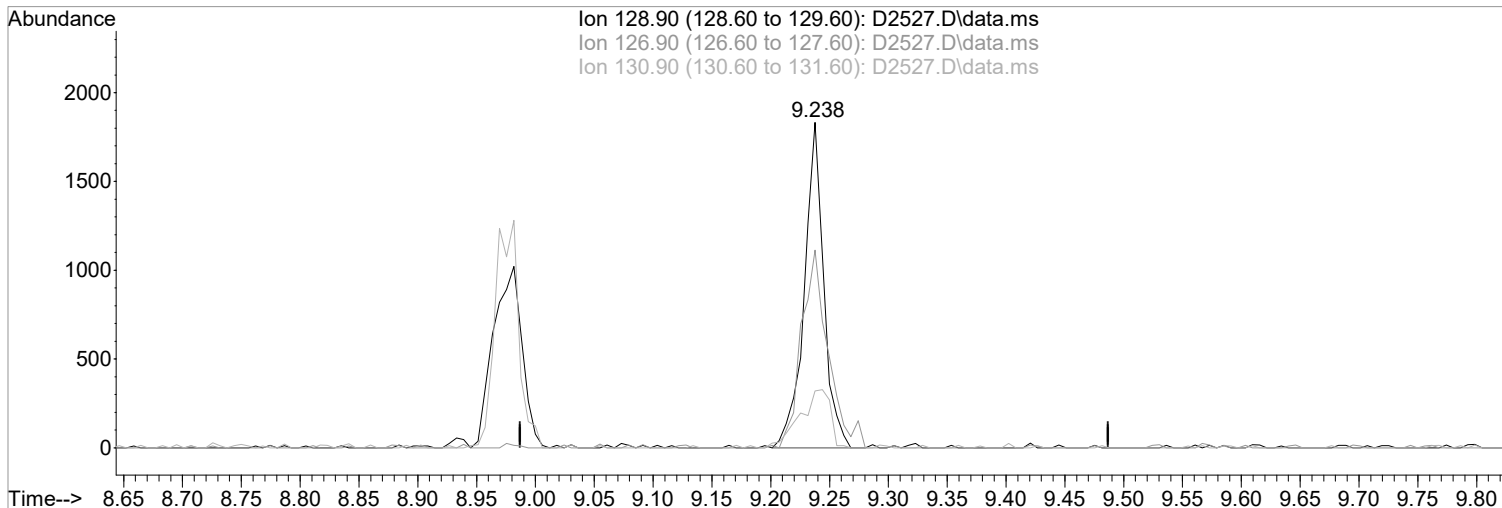
Ion	Exp%	Act%
43.10	100	100
58.10	51.90	57.52
100.10	8.60	5.46
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2527.D\data.ms

(74) Dibromochloromethane (P)

9.238min (+0.001) 1.00 ug/L m  
response 2106

Ion	Exp%	Act%
128.90	100	100
126.90	76.00	60.72
130.90	24.40	17.46
0.00	0.00	0.00

Manual Integration:

After

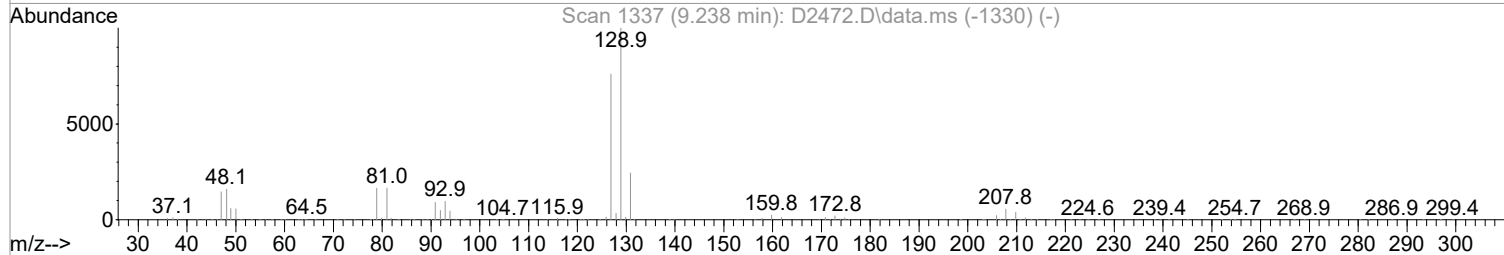
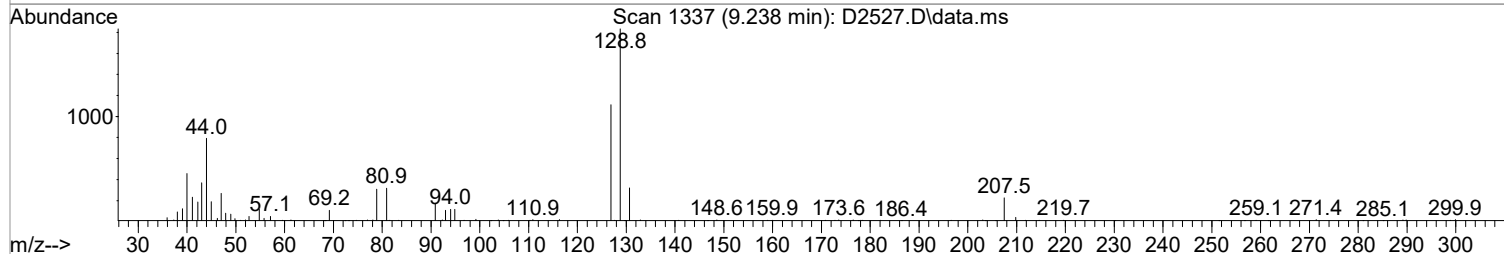
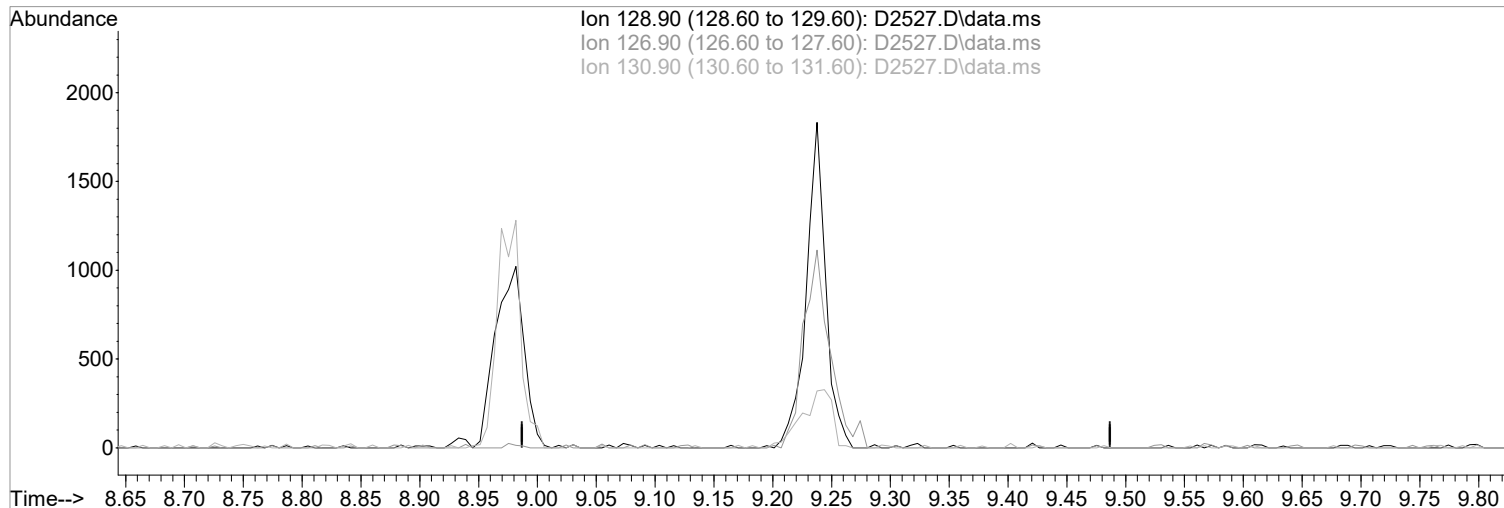
Peak not found.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2527.D  
Acq On : 11 Apr 2018 11:41 am  
Operator : D.LIPANI  
Sample : STD #2 - 1.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 11:56:16 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2527.D\data.ms

(74) Dibromochloromethane (P)

Manual Integration:

9.237min (-9.237) 0.00 ug/L

Before

response 0

Ion	Exp%	Act%
128.90	100	0.00
126.90	76.00	0.00#
130.90	24.40	0.00#
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2527.D  
 Acq On : 11 Apr 2018 11:41 am  
 Operator : D.LIPANI  
 Sample : STD #2 - 1.0 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 13:12:28 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	218858	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	333154	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	289708	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	147219	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	24636	12.05	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	24.10%#
46) surr1,1,2-dichloroetha...	5.781	65	33637	12.87	ug/L	0.00
Spiked Amount	50.000	Range	73 - 125	Recovery	=	25.74%#
64) SURR3,Toluene-d8	8.305	98	102181	12.25	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	24.50%#
69) SURR2,BFB	10.878	95	38535	11.87	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	23.74%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.148	85	2741	0.88	ug/L	91
3) Chloromethane	1.276	50	3784	1.02	ug/L	100
4) Vinyl Chloride	1.355	62	3862	1.21	ug/L	91
5) Bromomethane	1.587	94	3604	1.28	ug/L	95
6) Chloroethane	1.666	64	2068	1.06	ug/L	78
7) Freon 21	1.812	67	4925	1.08	ug/L	100
8) Trichlorofluoromethane	1.861	101	3997	1.28	ug/L	82
9) Diethyl Ether	2.087	59	2419	1.16	ug/L	95
10) Freon 123a	2.093	67	2901m	1.03	ug/L	
11) Freon 123	2.148	83	3269	1.09	ug/L	82
12) Acrolein	2.190	56	3163	5.03	ug/L	96
13) 1,1-Dicethene	2.288	96	2305	1.15	ug/L #	67
14) Freon 113	2.288	101	2321	1.09	ug/L	79
16) 2-Propanol	2.459	45	6281	29.01	ug/L	99
17) Iodomethane	2.416	142	363	1.19	ug/L #	43
18) Carbon Disulfide	2.471	76	6052	1.05	ug/L	97
19) Acetonitrile	2.580	41	2283	4.72	ug/L	88
20) Allyl Chloride	2.617	76	1325	1.26	ug/L #	82
21) Methyl Acetate	2.635	43	3015	1.21	ug/L	82
22) Methylene Chloride	2.739	84	2739	1.17	ug/L #	74
23) TBA	2.855	59	10146	34.07	ug/L	86
24) Acrylonitrile	2.983	53	6474	5.15	ug/L	92
25) Methyl-t-Butyl Ether	3.032	73	8067	1.21	ug/L	86
26) trans-1,2-Dichloroethene	3.026	96	2414	1.12	ug/L #	77
27) 1,1-Dicethane	3.525	63	4639	1.12	ug/L	93
28) Vinyl Acetate	3.617	86	410m	0.87	ug/L	
29) DIPE	3.647	45	8973	1.06	ug/L	78
30) 2-Chloro-1,3-Butadiene	3.641	53	4264	1.14	ug/L	76
31) ETBE	4.178	59	7914	1.19	ug/L	96
32) 2,2-Dichloropropane	4.367	77	4072	1.66	ug/L	93
33) cis-1,2-Dichloroethene	4.367	96	2795	1.15	ug/L	90
35) Propionitrile	4.501	54	2768	5.47	ug/L #	48
36) Bromochloromethane	4.763	130	1506m	0.98	ug/L	
37) Methacrylonitrile	4.763	67	1511	1.33	ug/L #	74
39) Chloroform	4.940	83	3763	0.98	ug/L	83
40) 1,1,1-Trichloroethane	5.251	97	3788	1.27	ug/L	94
42) Cyclohexane	5.336	41	2939m	1.16	ug/L	
44) Carbontetrachloride	5.525	117	2885	1.14	ug/L	95
45) 1,1-Dichloropropene	5.537	75	3671	1.12	ug/L	93



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2527.D  
 Acq On : 11 Apr 2018 11:41 am  
 Operator : D.LIPANI  
 Sample : STD #2 - 1.0 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 13:12:28 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Benzene	5.854	78	9009	0.95	ug/L	95
48) 1,2-Dichloroethane	5.897	62	3340	0.97	ug/L	89
49) Iso-Butyl Alcohol	5.879	43	4290	26.58	ug/L	96
50) TAME	6.104	73	7600	1.27	ug/L	92
51) n-Heptane	6.354	43	3794	1.11	ug/L	89
52) 1-Butanol	6.848	56	5815	93.70	ug/L	92
53) Trichloroethene	6.824	130	2463	1.04	ug/L #	81
54) Methylcyclohexane	7.049	55	3465m	1.08	ug/L	
55) 1,2-Diclpropane	7.092	63	2803	1.10	ug/L	93
56) Dibromomethane	7.244	93	1680	1.13	ug/L	87
57) 1,4-Dioxane	7.305	88	1007	23.76	ug/L #	71
58) Methyl Methacrylate	7.330	69	2548	1.37	ug/L #	77
59) Bromodichloromethane	7.464	83	3061	1.11	ug/L	93
60) 2-Nitropropane	7.750	41	1956	3.02	ug/L #	69
61) 2-Chloroethylvinyl Ether	7.884	63	1336	1.01	ug/L	62
62) cis-1,3-Dichloropropene	8.012	75	4286	1.43	ug/L	92
63) 4-Methyl-2-pentanone	8.220	43	3401	1.06	ug/L	89
65) Toluene	8.384	91	10424	1.05	ug/L	91
66) trans-1,3-Dichloropropene	8.652	75	3896	1.57	ug/L	94
67) Ethyl Methacrylate	8.793	69	3771	1.36	ug/L	91
68) 1,1,2-Trichloroethane	8.835	97	2051	0.93	ug/L #	81
71) Tetrachloroethene	8.969	164	1822	0.94	ug/L #	79
72) 2-Hexanone	9.134	43	3000m	1.26	ug/L	
73) 1,3-Dichloropropene	9.006	76	3717	0.92	ug/L	87
74) Dibromochloromethane	9.238	129	2106m	1.00	ug/L	
75) N-Butyl Acetate	9.286	43	5886	1.24	ug/L	94
76) 1,2-Dibromoethane	9.329	107	2291	1.04	ug/L	96
77) 3-Chlorobenzotrifluoride	9.847	180	3447	0.94	ug/L	92
78) Chlorobenzene	9.829	112	6289	0.95	ug/L	96
79) 4-Chlorobenzotrifluoride	9.902	180	2969	0.89	ug/L	93
80) 1,1,1,2-Tetrachloroethane	9.914	131	2252	1.06	ug/L #	74
81) Ethylbenzene	9.951	106	2899	0.86	ug/L	92
82) (m+p)Xylene	10.067	106	8267	1.95	ug/L #	85
83) o-Xylene	10.420	106	3982	0.99	ug/L #	74
84) Styrene	10.433	104	6592	0.95	ug/L	85
85) Bromoform	10.579	173	1350	1.19	ug/L	90
86) 2-Chlorobenzotrifluoride	10.664	180	3217	0.90	ug/L	83
87) Isopropylbenzene	10.756	105	10999	1.03	ug/L	96
88) Cyclohexanone	10.817	55	16094	21.88	ug/L	91
89) trans-1,4-Dichloro-2-B...	11.061	53	822	1.11	ug/L #	67
91) 1,1,2,2-Tetrachloroethane	11.012	83	3222	1.07	ug/L	90
92) Bromobenzene	11.000	156	2803	1.12	ug/L #	85
93) 1,2,3-Trichloropropene	11.042	110	1030	1.13	ug/L #	72
94) n-Propylbenzene	11.109	91	12362	1.05	ug/L	99
95) 2-Chlorotoluene	11.170	91	7180	1.03	ug/L	83
96) 3-Chlorotoluene	11.225	91	7172	1.03	ug/L	97
97) 4-Chlorotoluene	11.268	91	8987	1.08	ug/L	96
98) 1,3,5-Trimethylbenzene	11.262	105	8394	1.05	ug/L	84
99) tert-Butylbenzene	11.536	119	6877	1.01	ug/L	98
100) 1,2,4-Trimethylbenzene	11.573	105	8034	1.02	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	2523	0.94	ug/L	95
102) sec-Butylbenzene	11.719	105	10221	1.01	ug/L	96
103) p-Isopropyltoluene	11.841	119	8260	0.96	ug/L	93
104) 1,3-Dclbenz	11.798	146	4743	0.96	ug/L	94
105) 1,4-Dclbenz	11.871	146	5217	1.02	ug/L	95
106) 2,4-Dichlorobenzotrifl...	11.926	214	2250	0.89	ug/L	93

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2527.D  
 Acq On : 11 Apr 2018 11:41 am  
 Operator : D.LIPANI  
 Sample : STD #2 - 1.0 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 11 13:12:28 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
107) 2,5-Dichlorobenzotrifl...	11.969	214	2654	0.95	ug/L	98
108) n-Butylbenzene	12.170	91	7920	0.96	ug/L	94
109) 1,2-Dclbenz	12.176	146	4655	0.94	ug/L	89
110) 1,2-Dibromo-3-chloropr...	12.804	157	614	1.50	ug/L	87
111) Trielution Dichlorotol...	12.926	125	11904	3.00	ug/L	86
112) 1,3,5-Trichlorobenzene	12.969	180	3631	0.99	ug/L	91
113) Coelution Dichlorotoluene	13.249	125	8371	1.92	ug/L	95
114) 1,2,4-Tcbenzene	13.450	180	3315	0.93	ug/L	92
115) Hexachlorobt	13.597	225	1535	0.99	ug/L	86
116) Naphthalen	13.645	128	8484	1.05	ug/L	95
117) 1,2,3-Tclbenzene	13.834	180	3357	1.00	ug/L	91
118) 2,4,5-Trichlorotoluene	14.420	159	2054	1.11	ug/L	87
119) 2,3,6-Trichlorotoluene	14.499	159	2080m	1.19	ug/L	

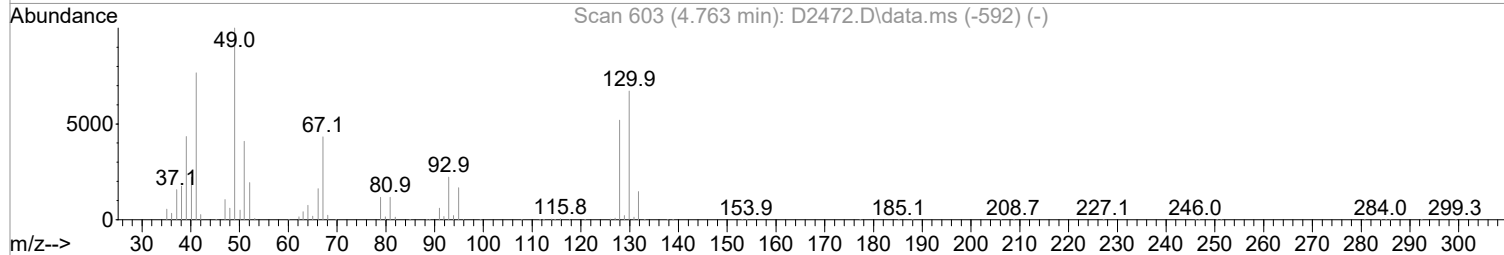
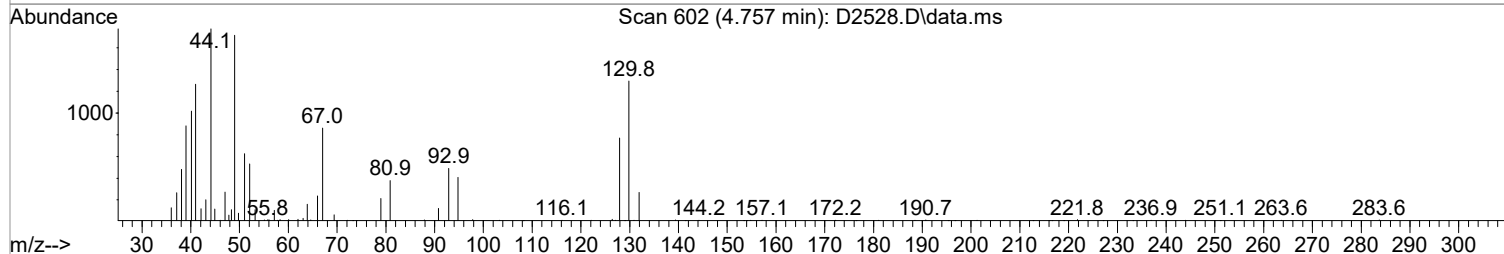
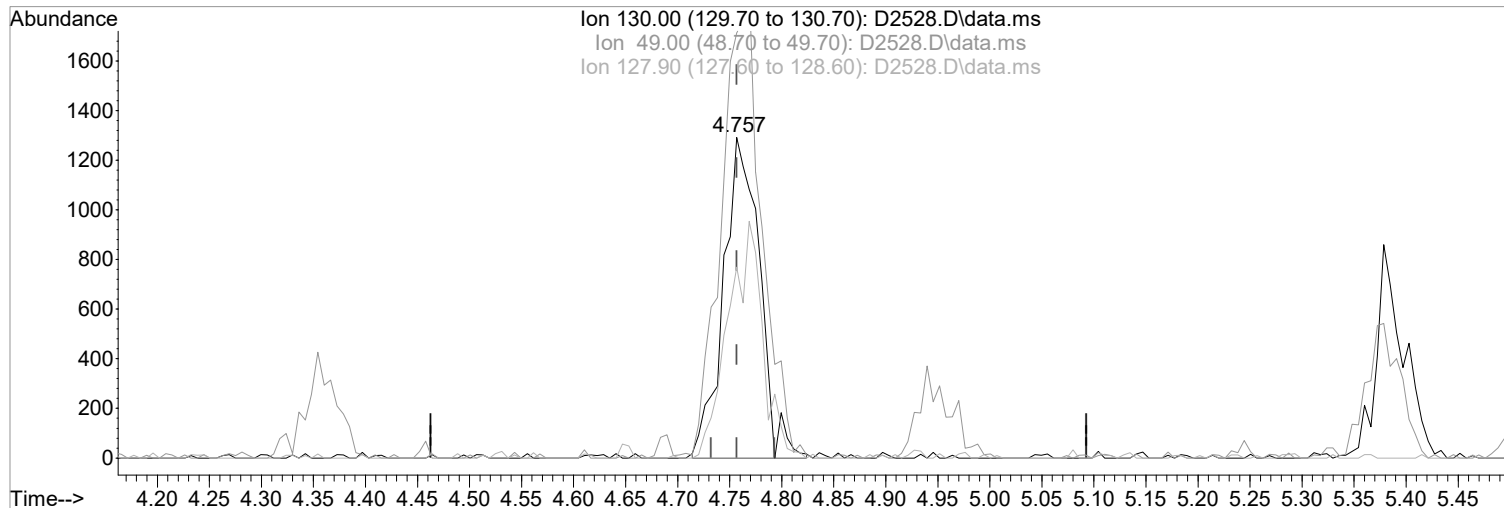
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2528.D\data.ms

(36) Bromochloromethane

4.757min (-0.000) 1.97 ug/L m  
response 3113

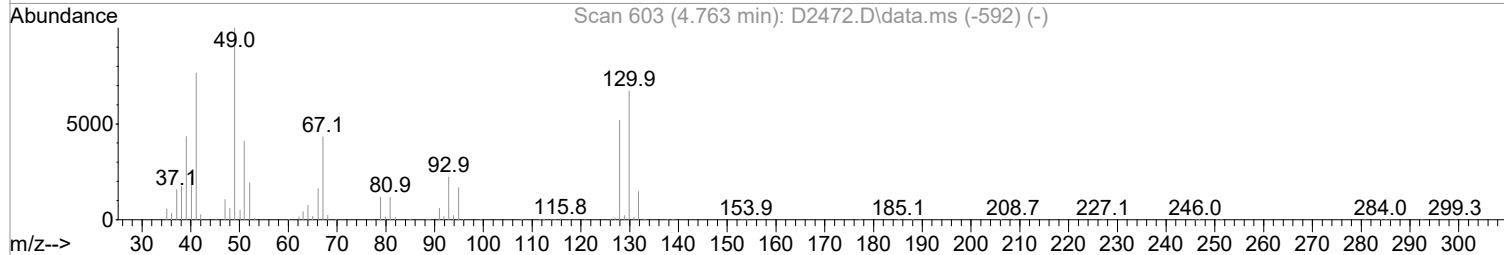
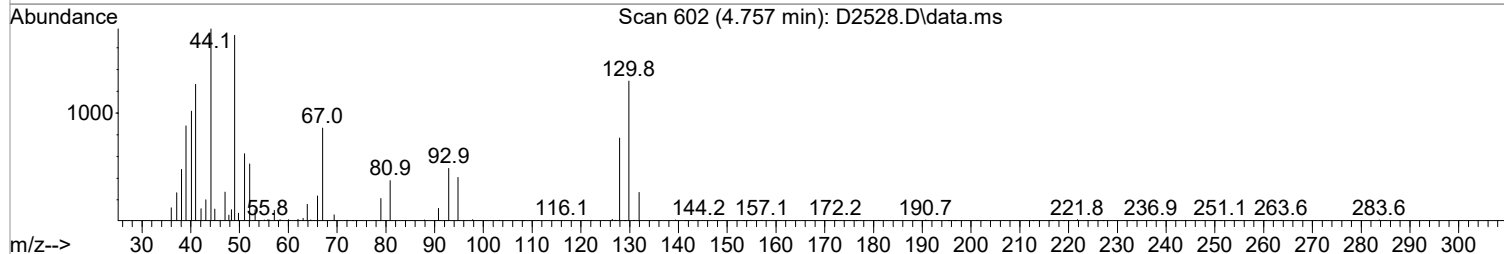
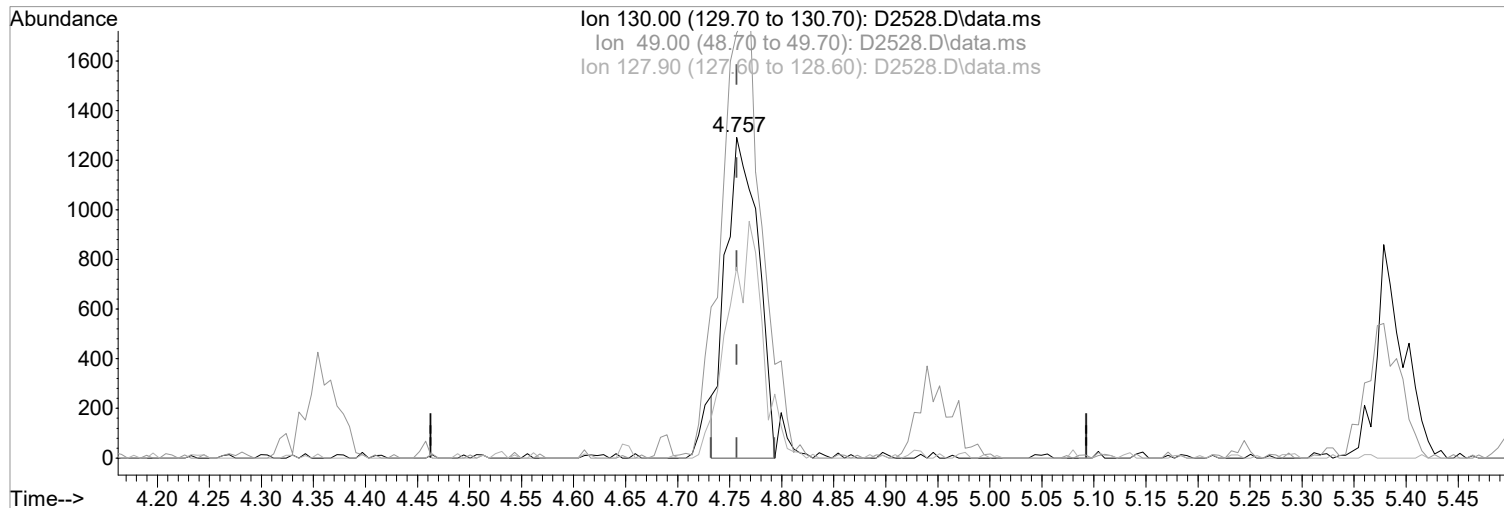
Ion	Exp%	Act%
130.00	100	100
49.00	149.10	132.66
127.90	77.50	59.60
0.00	0.00	0.00

Manual Integration:  
After  
Poor integration.  
04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2528.D\data.ms

(36) Bromochloromethane  
4.757min (-0.000) 1.76 ug/L  
response 2787

Manual Integration:  
Before

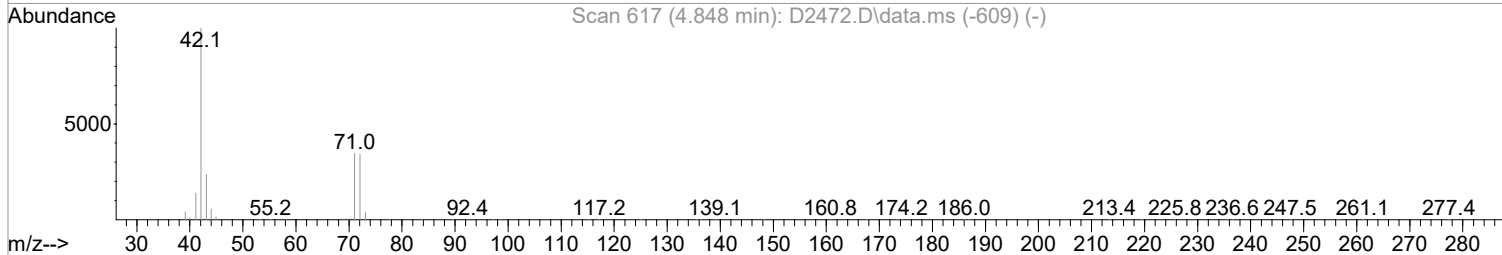
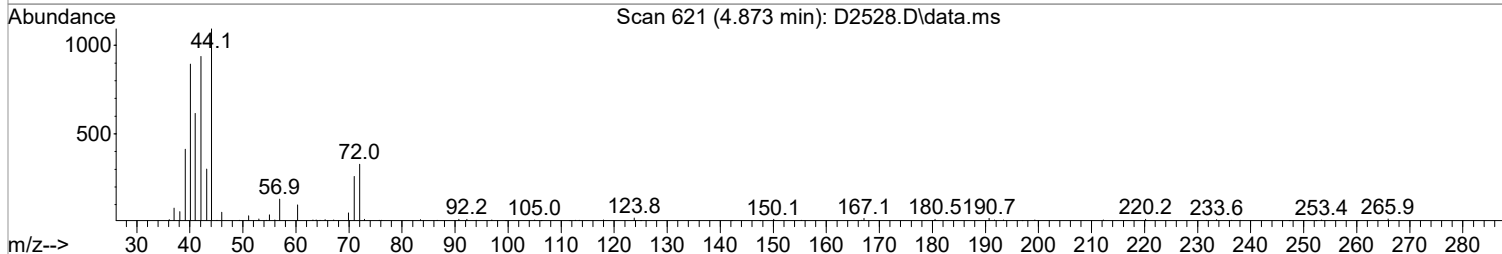
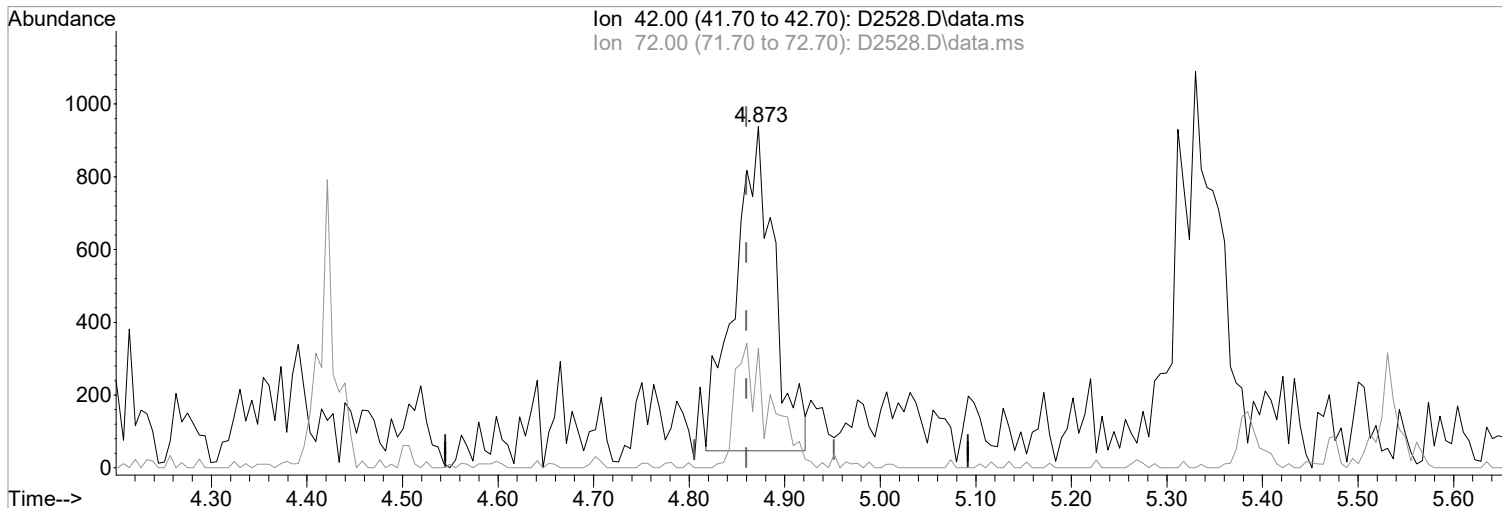
Ion	Exp%	Act%
130.00	100	100
49.00	149.10	132.66
127.90	77.50	59.60
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(38) Tetrahydrofuran  
4.873min (+0.013) 2.48 ug/L m  
response 2550

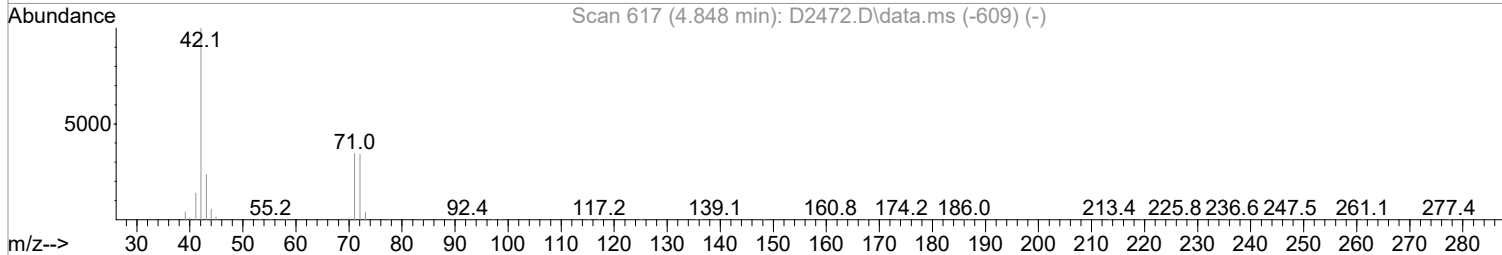
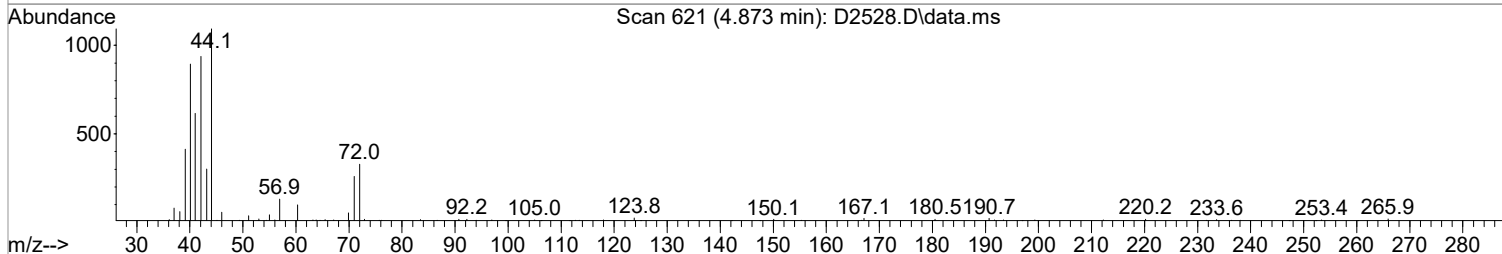
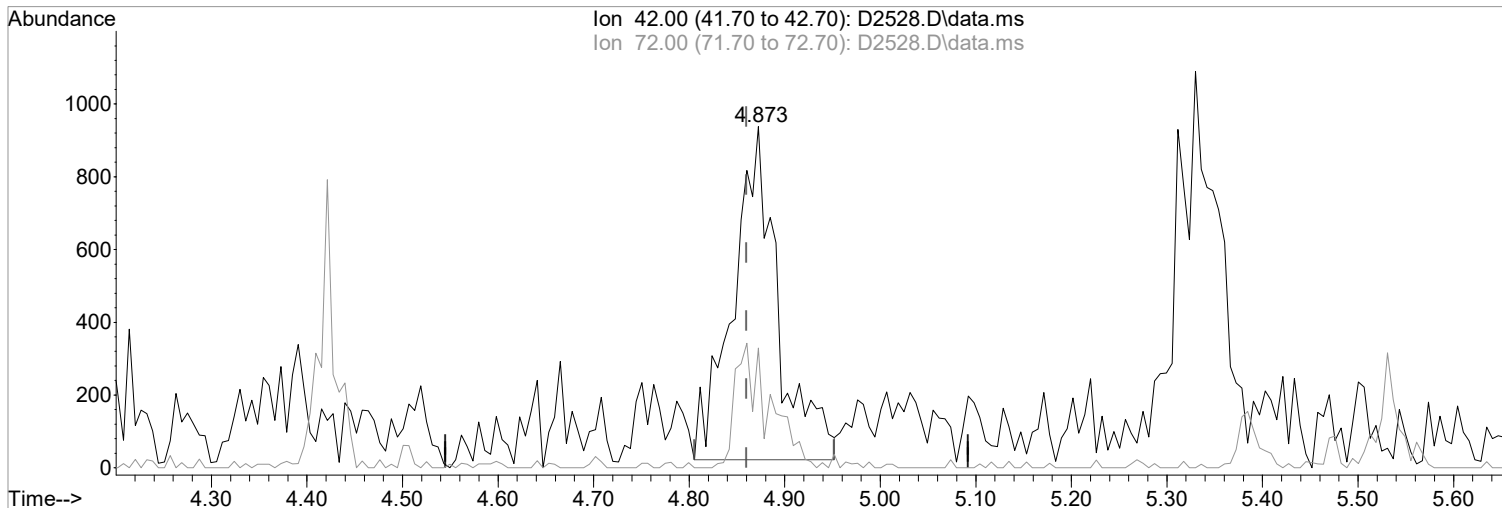
Manual Integration:  
After  
Poor integration.

Ion	Exp%	Act%
42.00	100	100
72.00	33.50	35.07
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(38) Tetrahydrofuran  
4.873min (+0.013) 2.92 ug/L  
response 3004

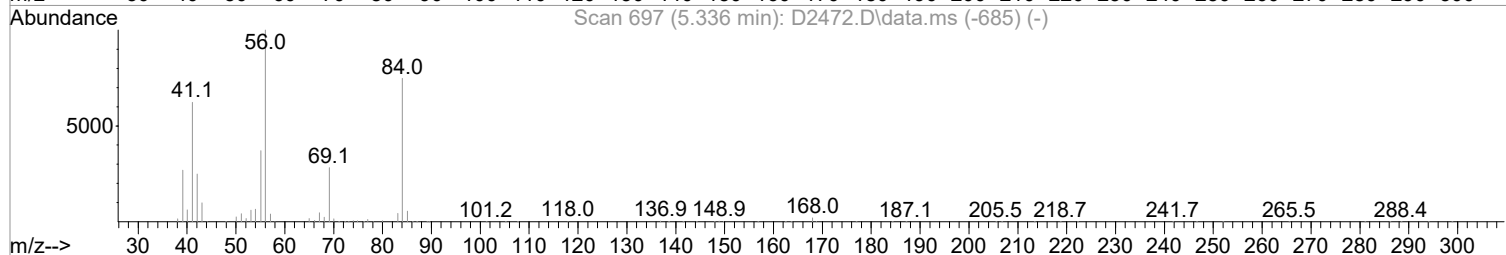
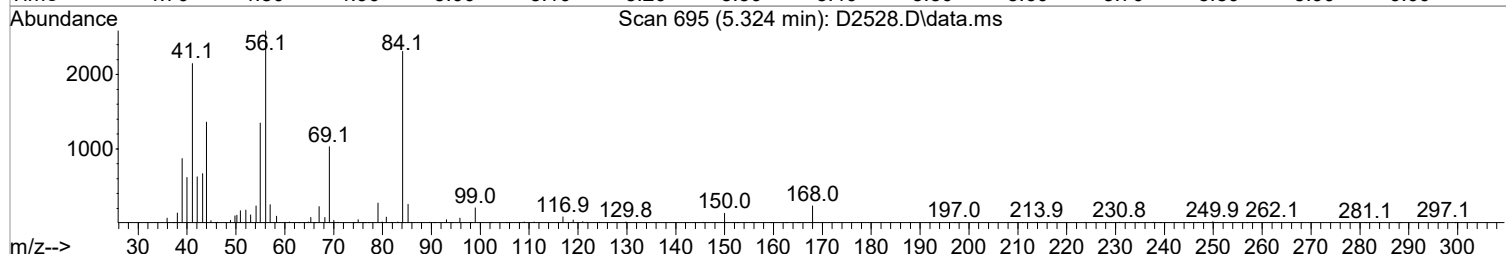
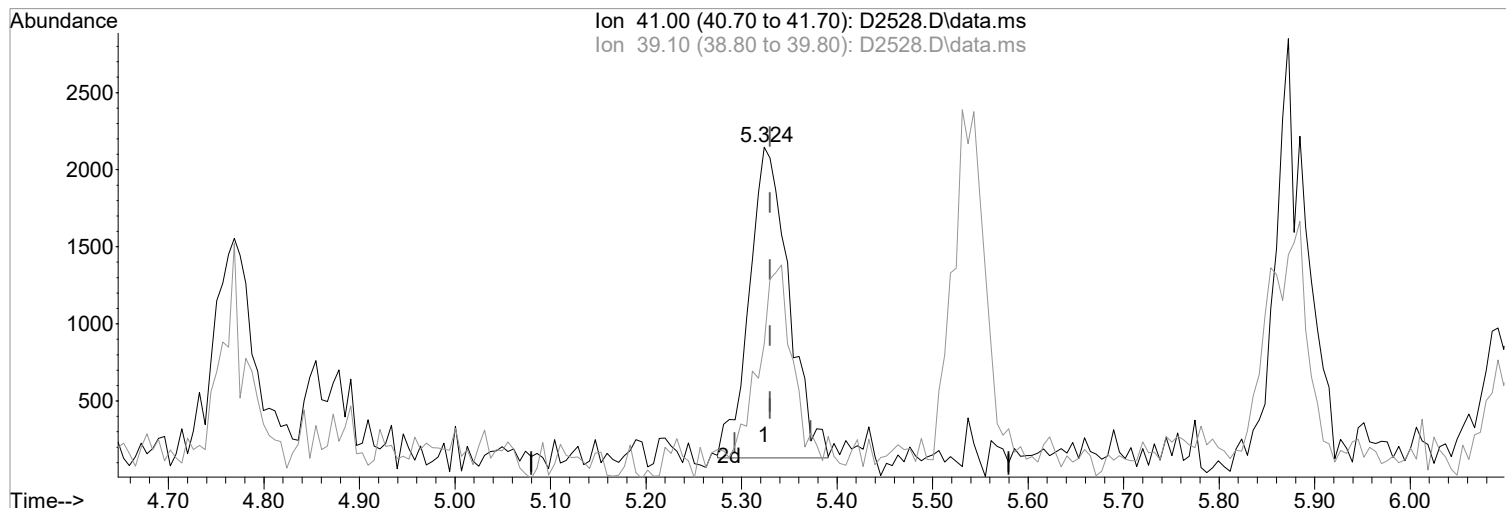
Manual Integration:  
Before

Ion	Exp%	Act%
42.00	100	100
72.00	33.50	35.07
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2528.D  
 Acq On : 11 Apr 2018 12:17 pm  
 Operator : D.LIPANI  
 Sample : STD #3 - 2.0 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 8 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



TIC: D2528.D\data.ms

(42) Cyclohexane (P)

5.324min (-0.006) 2.15 ug/L m

response 5789

Ion	Exp%	Act%
41.00	100	100
39.10	43.50	40.48
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

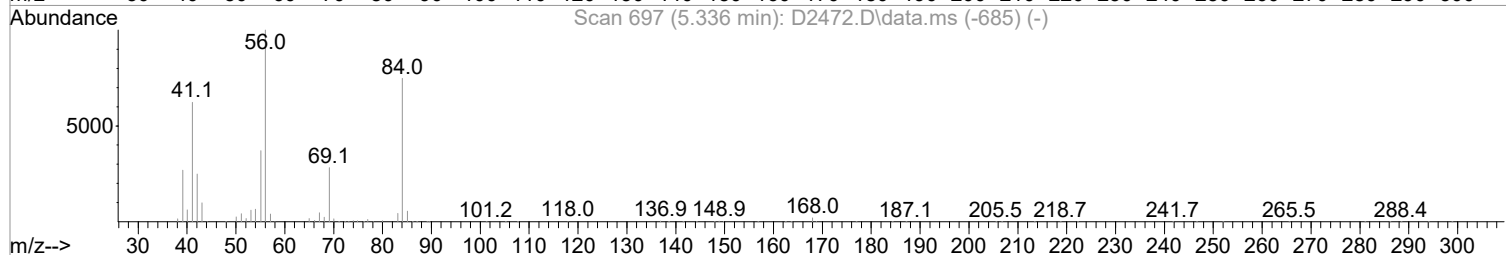
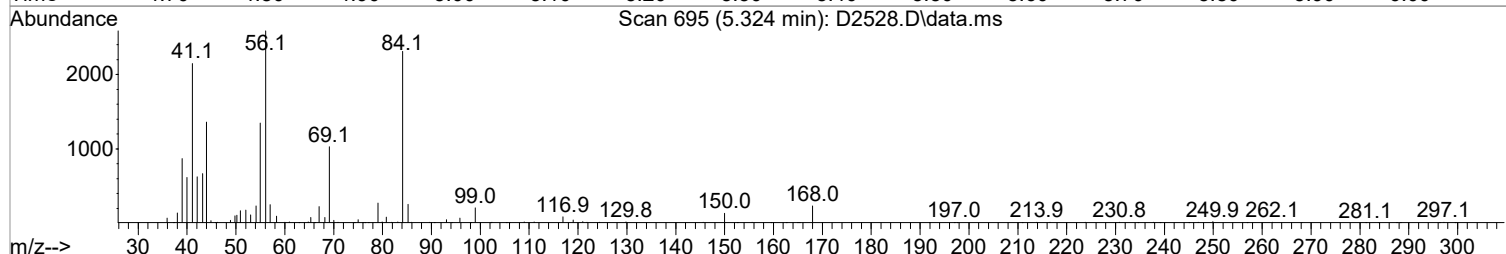
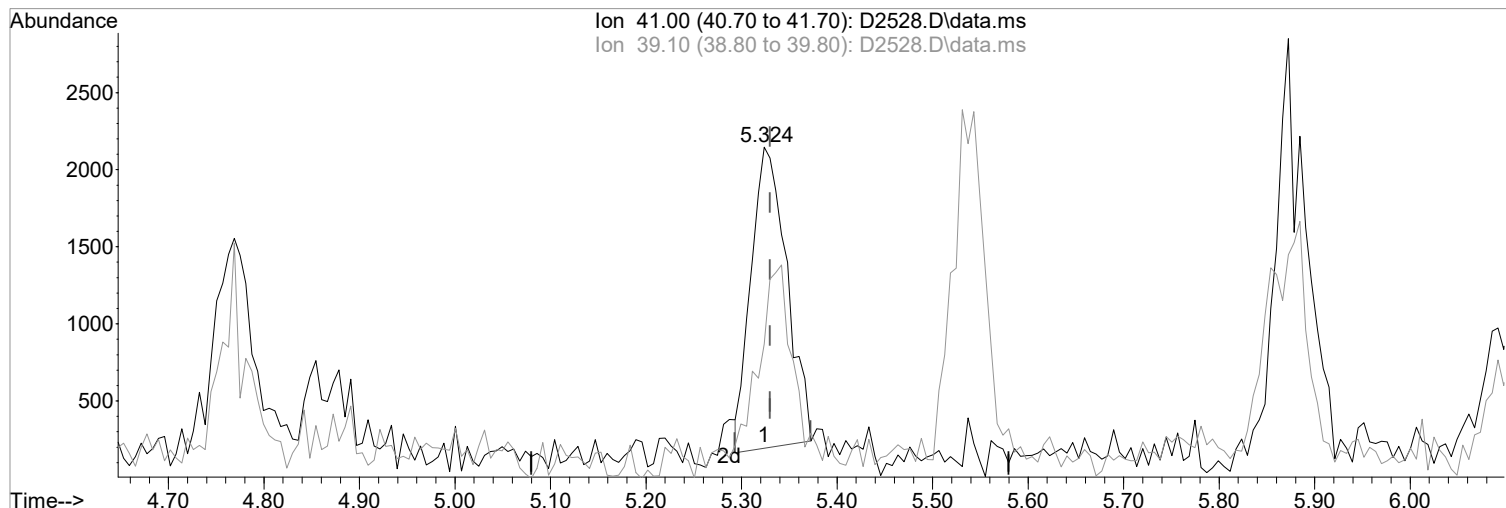
Poor integration.

04/11/18



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(42) Cyclohexane (P)  
5.324min (-0.006) 1.87 ug/L  
response 5045

Manual Integration:  
Before

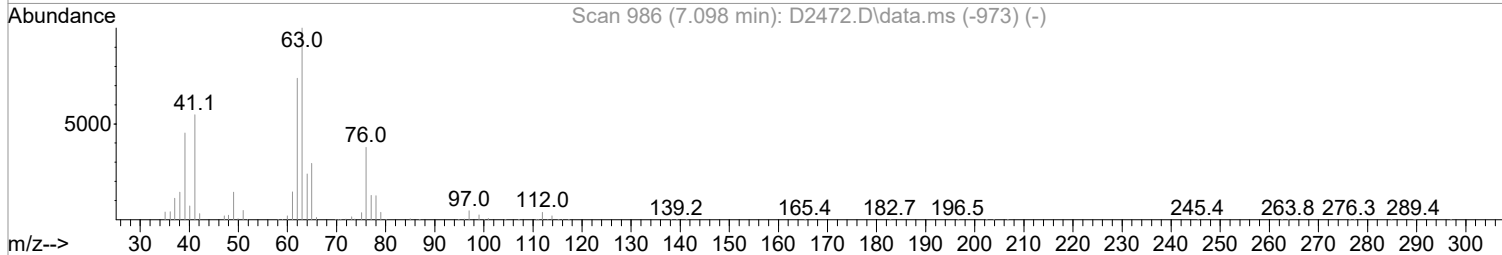
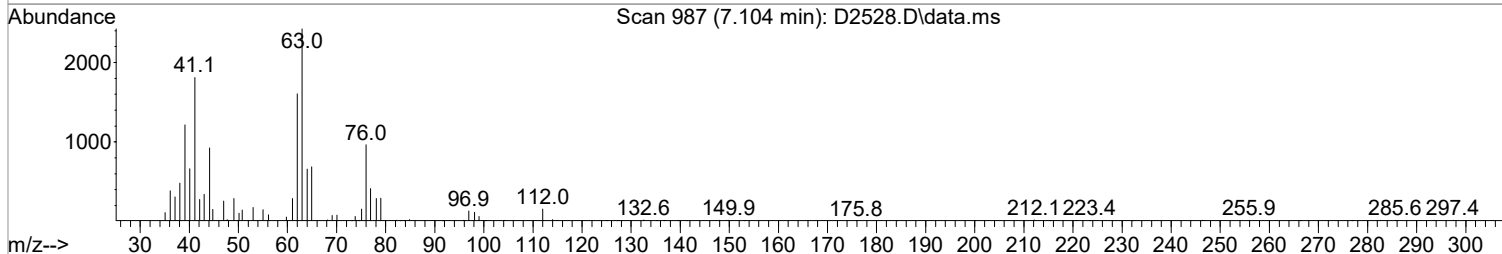
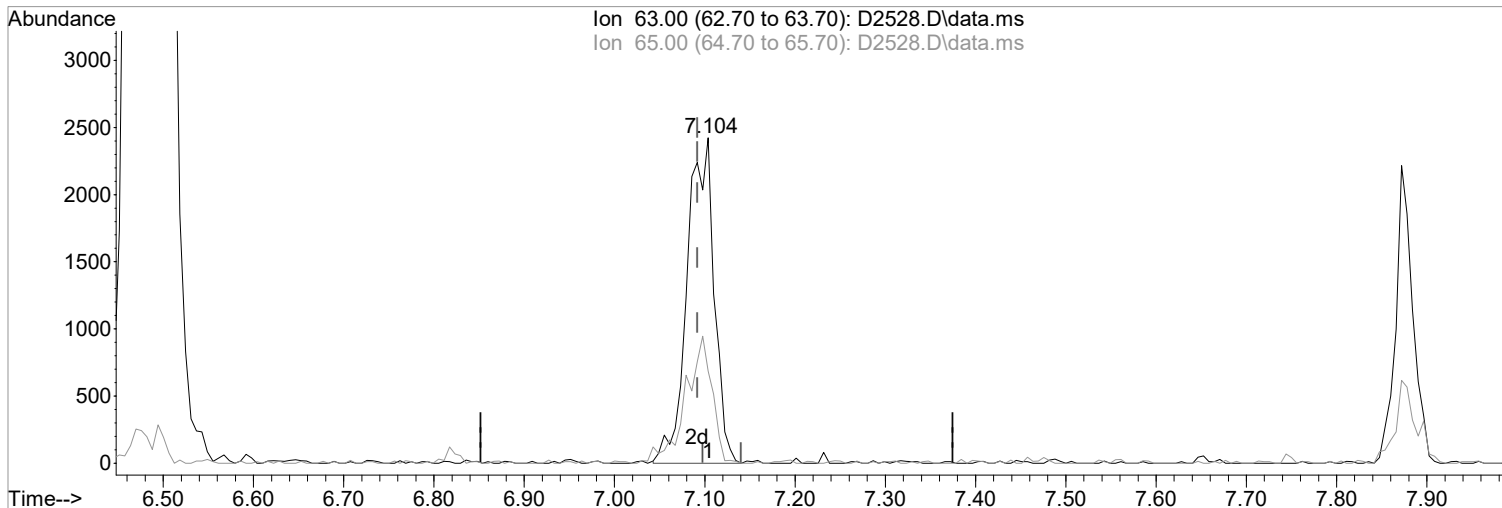
Ion	Exp%	Act%
41.00	100	100
39.10	43.50	40.48
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



TIC: D2528.D\data.ms

(55) 1,2-Dicloropropane (P)  
7.104min (+0.012) 1.86 ug/L m  
response 5033

Manual Integration:

After

Poor integration.

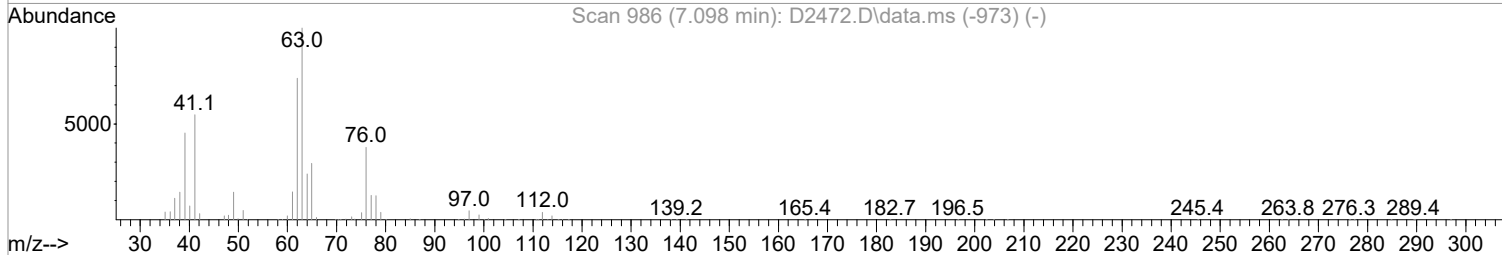
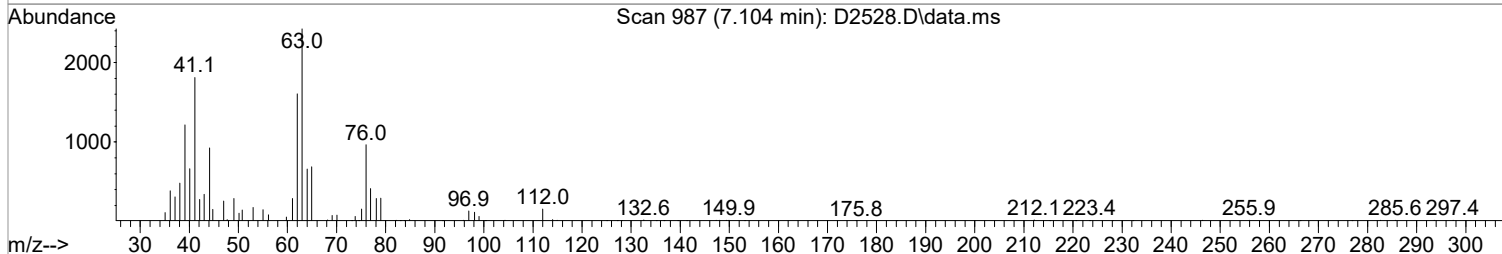
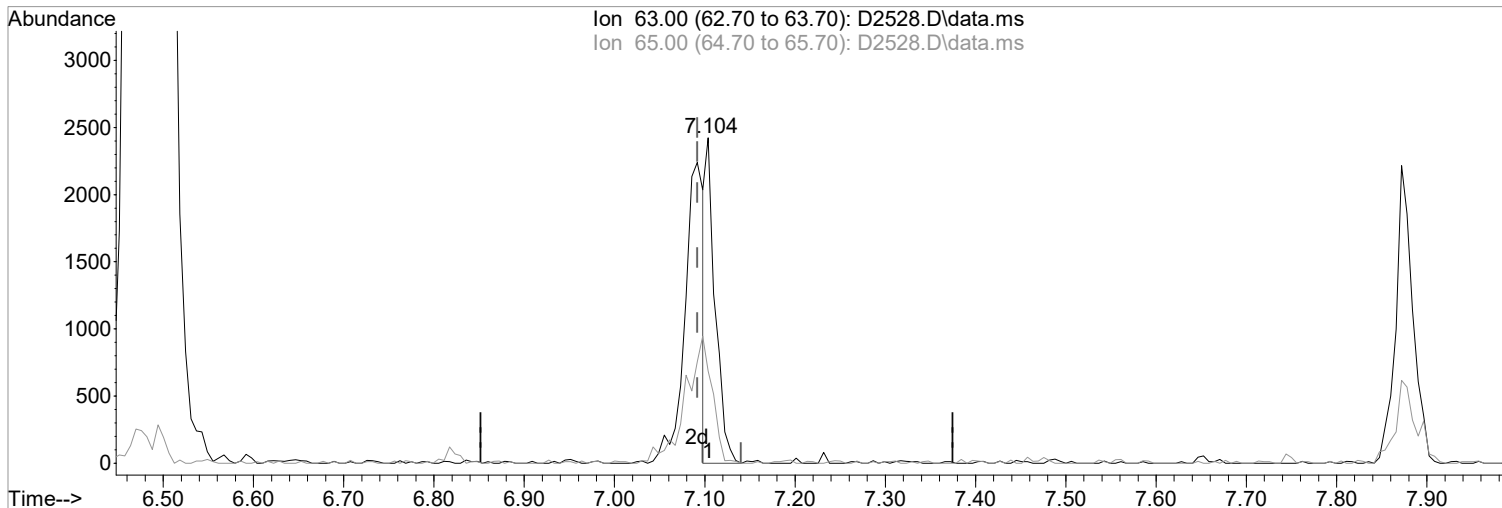
04/11/18

Ion	Exp%	Act%
63.00	100	100
65.00	29.50	28.31
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(55) 1,2-Dicloropropane (P)  
7.104min (+0.012) 0.66 ug/L  
response 1777

Manual Integration:  
Before

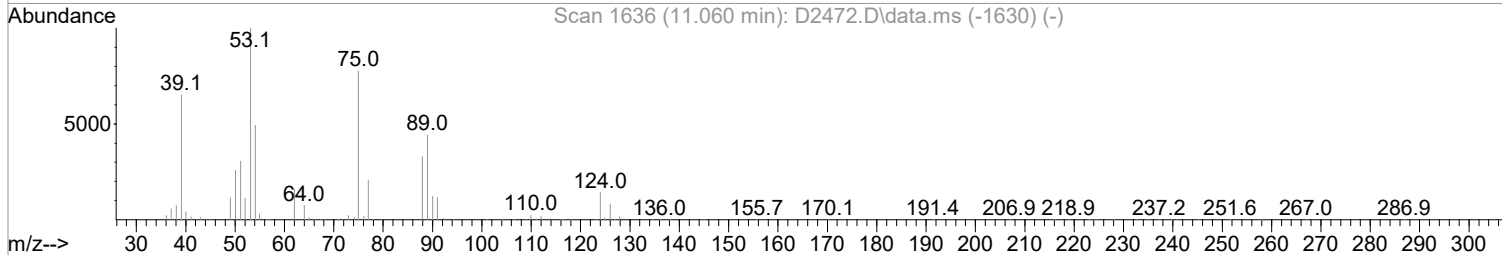
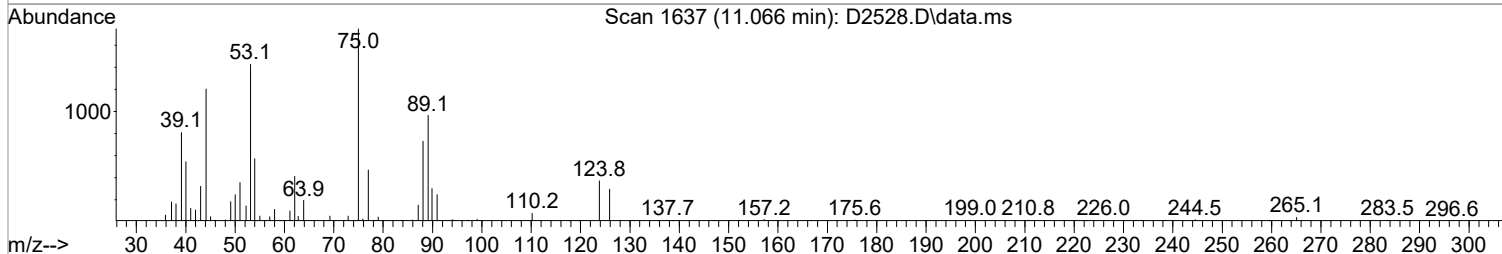
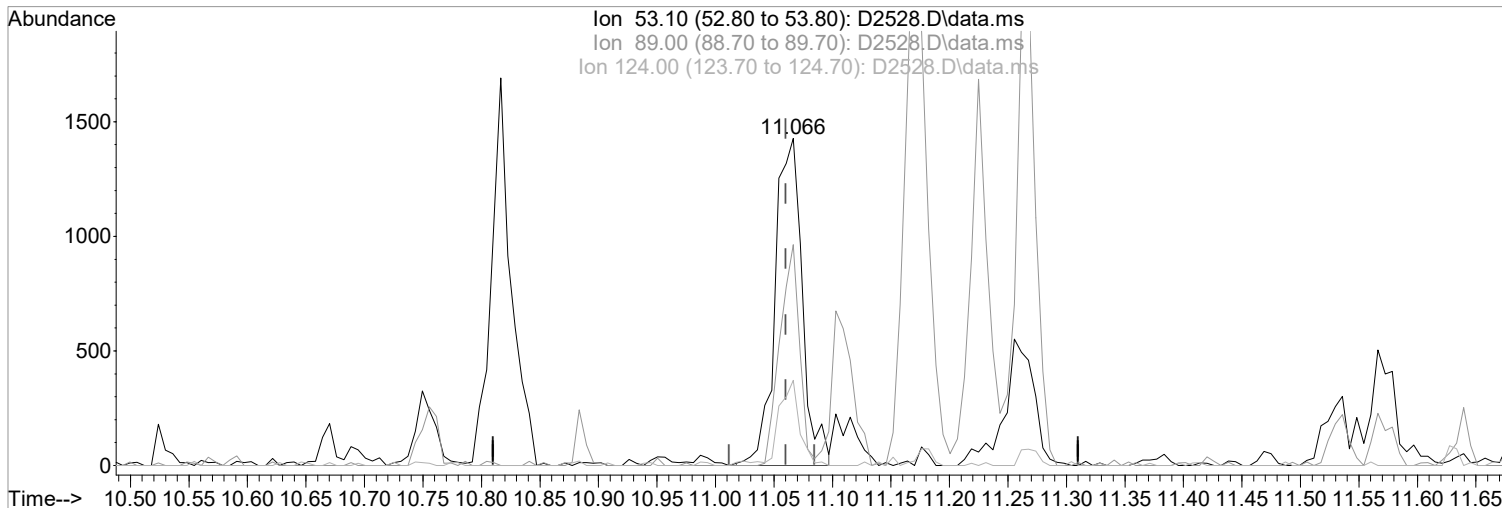
Ion	Exp%	Act%
63.00	100	100
65.00	29.50	28.31
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(89) trans-1,4-Dichloro-2-Butene

11.066min (+0.006) 3.01 ug/L m  
response 2301

Ion	Exp%	Act%
53.10	100	100
89.00	44.00	67.55#
124.00	14.20	26.00
0.00	0.00	0.00

Manual Integration:

After

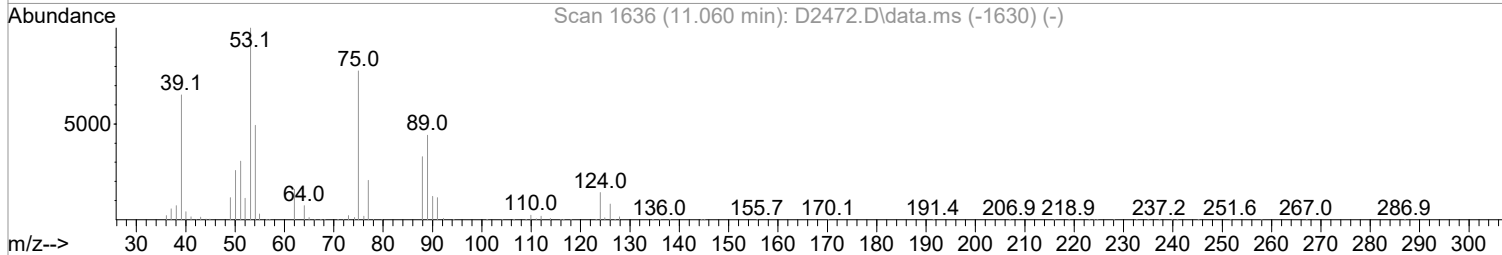
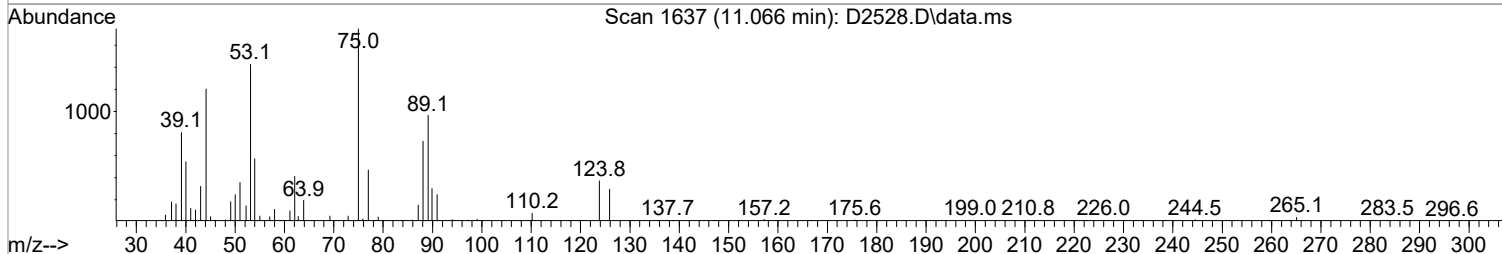
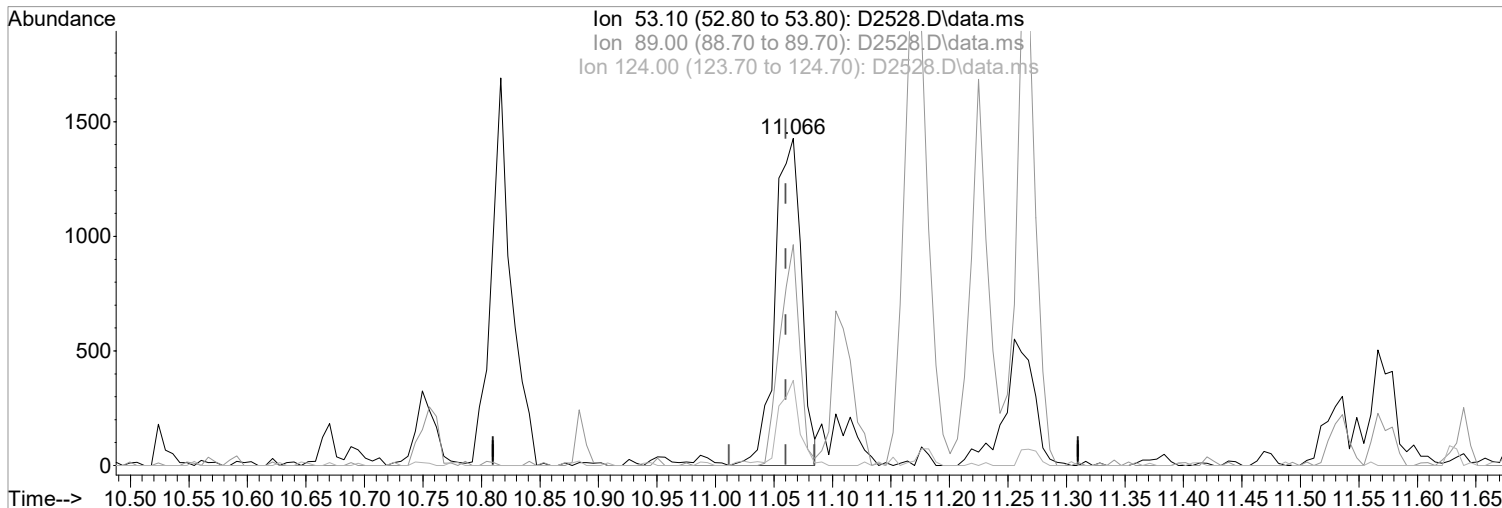
Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2528.D  
Acq On : 11 Apr 2018 12:17 pm  
Operator : D.LIPANI  
Sample : STD #3 - 2.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 12:31:50 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(89) trans-1,4-Dichloro-2-Butene

Manual Integration:

11.066min (+0.006) 2.90 ug/L

Before

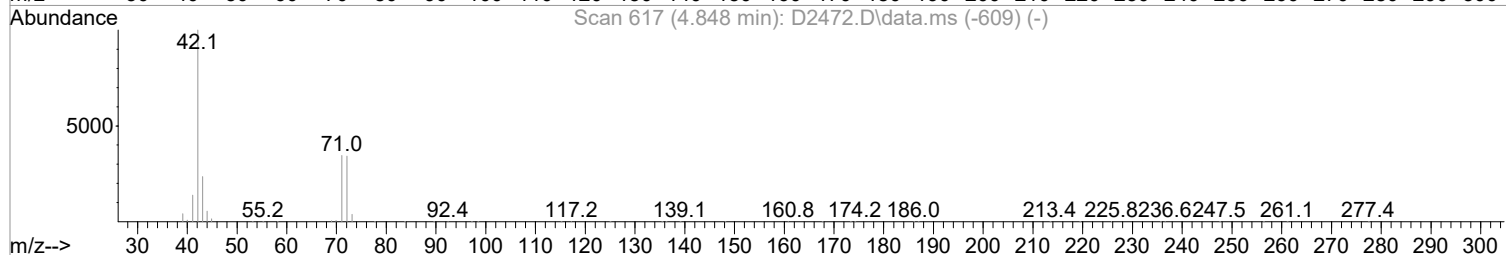
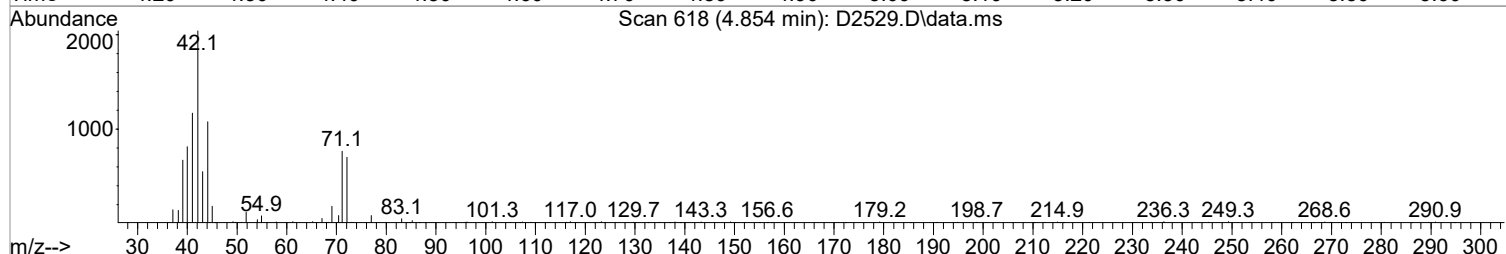
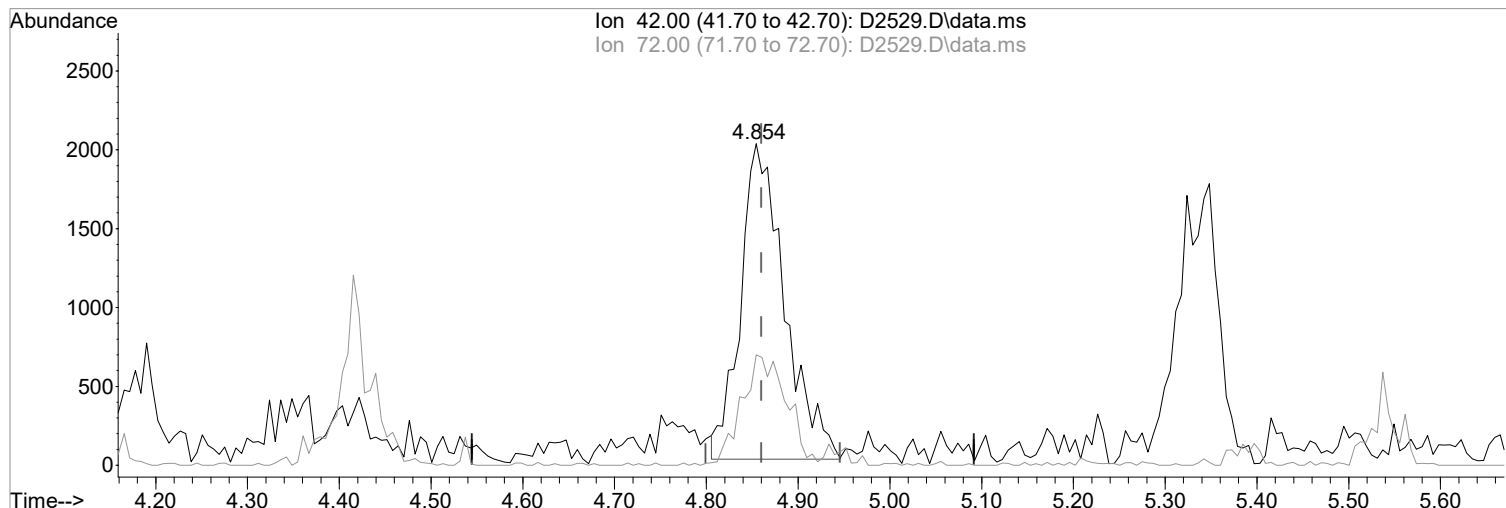
response 2221

Ion	Exp%	Act%
53.10	100	100
89.00	44.00	67.55#
124.00	14.20	26.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2529.D  
Acq On : 11 Apr 2018 12:39 pm  
Operator : D.LIPANI  
Sample : STD #4 - 5.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 9 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 12:53:37 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(38) Tetrahydrofuran

4.854min (-0.006) 6.61 ug/L m

response 6680

Ion	Exp%	Act%
42.00	100	100
72.00	33.50	34.33
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

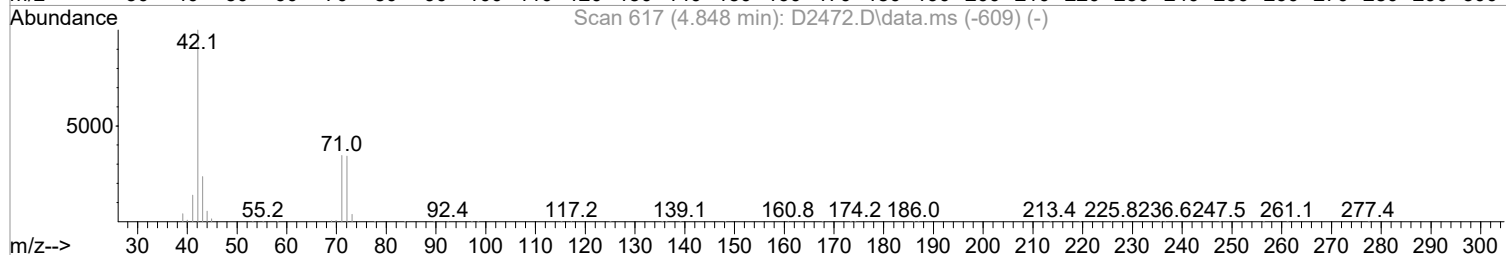
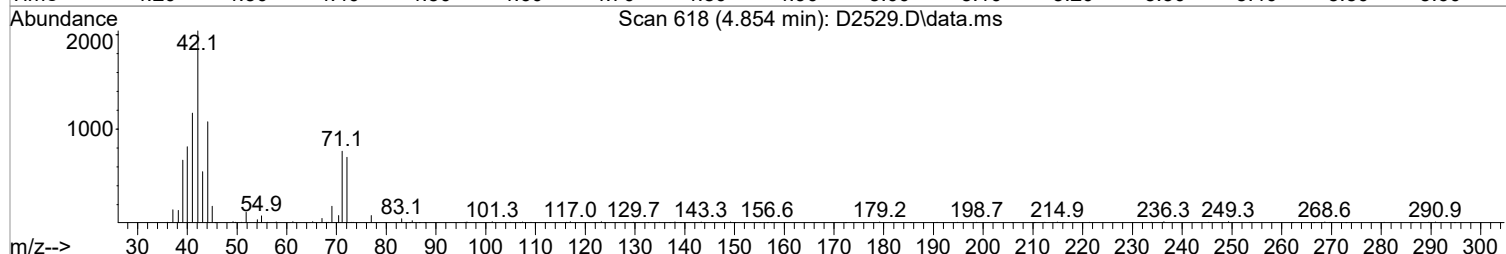
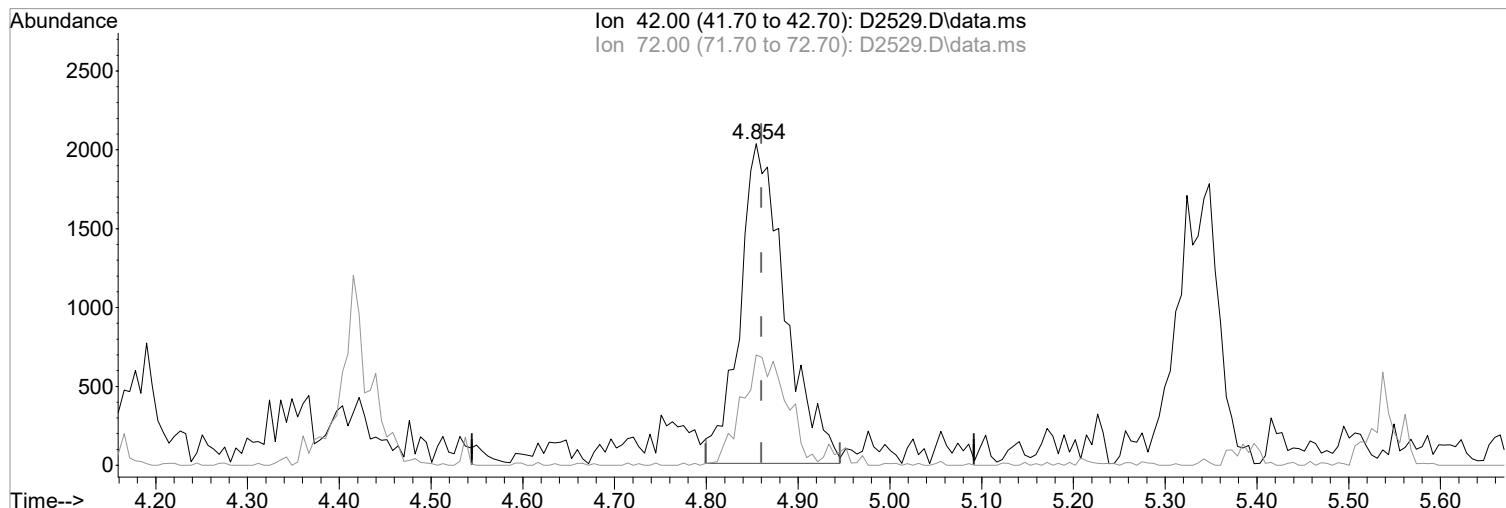
After

Poor integration.

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2529.D  
Acq On : 11 Apr 2018 12:39 pm  
Operator : D.LIPANI  
Sample : STD #4 - 5.0 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 9 Sample Multiplier: 1  
Inst : MSVOA10

Quant Time: Apr 11 12:53:37 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Fri Apr 06 14:06:55 2018  
Response via : Initial Calibration



(38) Tetrahydrofuran  
4.854min (-0.006) 6.89 ug/L  
response 6958

Manual Integration:  
Before

Ion	Exp%	Act%
42.00	100	100
72.00	33.50	34.33
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2529.D  
 Acq On : 11 Apr 2018 12:39 pm  
 Operator : D.LIPANI  
 Sample : STD #4 - 5.0 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 13:20:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	220980	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	333367	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	287014	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	147620	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	23343	11.41	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	22.82%#	
46) surr1,1,2-dichloroetha...	5.781	65	32713	12.51	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	25.02%#	
64) SURR3,Toluene-d8	8.305	98	94925	11.37	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	22.74%#	
69) SURR2,BFB	10.878	95	34140	10.51	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	21.02%#	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.154	85	15431	4.89	ug/L	96
3) Chloromethane	1.282	50	19249	5.14	ug/L	96
4) Vinyl Chloride	1.355	62	17484	5.41	ug/L	100
5) Bromomethane	1.587	94	15046	6.22	ug/L	92
6) Chloroethane	1.666	64	10471	5.31	ug/L	98
7) Freon 21	1.812	67	26010	5.67	ug/L	97
8) Trichlorofluoromethane	1.861	101	18775	5.94	ug/L	95
9) Diethyl Ether	2.093	59	12126	5.74	ug/L	93
10) Freon 123a	2.093	67	14591	5.12	ug/L	87
11) Freon 123	2.148	83	15364	5.08	ug/L	99
12) Acrolein	2.190	56	16059	25.27	ug/L	97
13) 1,1-Dicethene	2.282	96	10775	5.34	ug/L	96
14) Freon 113	2.288	101	10309	4.77	ug/L	81
15) Acetone	2.324	43	7766	5.99	ug/L	84
16) 2-Propanol	2.452	45	33190	151.83	ug/L	92
17) Iodomethane	2.416	142	5898	3.14	ug/L	97
18) Carbon Disulfide	2.477	76	31118	5.37	ug/L	99
19) Acetonitrile	2.574	41	13988	28.66	ug/L	96
20) Allyl Chloride	2.617	76	6756	6.34	ug/L #	76
21) Methyl Acetate	2.635	43	14307	5.69	ug/L	97
22) Methylene Chloride	2.733	84	12615	5.34	ug/L	97
23) TBA	2.861	59	51139	170.09	ug/L	80
24) Acrylonitrile	2.989	53	36033	28.41	ug/L	93
25) Methyl-t-Butyl Ether	3.032	73	42046	6.24	ug/L	95
26) trans-1,2-Dichloroethene	3.025	96	11644	5.33	ug/L	92
27) 1,1-Dicethane	3.525	63	23060	5.51	ug/L	95
28) Vinyl Acetate	3.611	86	3162	6.64	ug/L #	87
29) DIPE	3.647	45	45459	5.30	ug/L	92
30) 2-Chloro-1,3-Butadiene	3.647	53	20311	5.37	ug/L	91
31) ETBE	4.184	59	41280	6.17	ug/L	95
32) 2,2-Dichloropropane	4.354	77	19260	7.77	ug/L	85
33) cis-1,2-Dichloroethene	4.373	96	12918	5.25	ug/L	91
34) 2-Butanone	4.428	43	10064	5.79	ug/L	83
35) Propionitrile	4.501	54	13696	26.82	ug/L	86
36) Bromochloromethane	4.757	130	8387	5.40	ug/L #	88
37) Methacrylonitrile	4.775	67	7149	6.24	ug/L	93
38) Tetrahydrofuran	4.854	42	6680m	6.61	ug/L	
39) Chloroform	4.946	83	20993	5.44	ug/L	90
40) 1,1,1-Trichloroethane	5.251	97	17506	5.81	ug/L	92



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2529.D  
 Acq On : 11 Apr 2018 12:39 pm  
 Operator : D.LIPANI  
 Sample : STD #4 - 5.0 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 13:20:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	14052	5.54	ug/L	88
44) Carbontetrachloride	5.525	117	15255	6.04	ug/L	99
45) 1,1-Dichloropropene	5.537	75	16445	5.03	ug/L	98
47) Benzene	5.860	78	47016	4.95	ug/L	97
48) 1,2-Dichloroethane	5.897	62	18954	5.51	ug/L	98
49) Iso-Butyl Alcohol	5.879	43	21184	131.16	ug/L	92
50) TAME	6.098	73	39757	6.61	ug/L	97
51) n-Heptane	6.354	43	16906	4.95	ug/L	99
52) 1-Butanol	6.842	56	31617	422.68	ug/L	97
53) Trichloroethene	6.811	130	11985	5.06	ug/L	91
54) Methylcyclohexane	7.055	55	15458	4.82	ug/L	92
55) 1,2-Diclpropane	7.098	63	12897	5.05	ug/L	97
56) Dibromomethane	7.238	93	7391	4.95	ug/L	95
57) 1,4-Dioxane	7.305	88	4498	106.08	ug/L	92
58) Methyl Methacrylate	7.323	69	10642	5.72	ug/L	88
59) Bromodichloromethane	7.464	83	15723	5.68	ug/L	98
60) 2-Nitropropane	7.750	41	10591	16.34	ug/L	98
61) 2-Chloroethylvinyl Ether	7.872	63	6758	5.09	ug/L	87
62) cis-1,3-Dichloropropene	8.012	75	21313	6.63	ug/L	100
63) 4-Methyl-2-pentanone	8.213	43	17281	5.40	ug/L	90
65) Toluene	8.384	91	50041	5.05	ug/L	98
66) trans-1,3-Dichloropropene	8.652	75	19255	7.32	ug/L	95
67) Ethyl Methacrylate	8.793	69	18923	6.39	ug/L	95
68) 1,1,2-Trichloroethane	8.841	97	11184	5.08	ug/L	98
71) Tetrachloroethene	8.976	164	8676	4.54	ug/L	92
72) 2-Hexanone	9.134	43	13470	5.69	ug/L	89
73) 1,3-Dichloropropane	9.012	76	20297	5.07	ug/L	92
74) Dibromochloromethane	9.232	129	11426	5.49	ug/L	97
75) N-Butyl Acetate	9.286	43	27411	5.84	ug/L	100
76) 1,2-Dibromoethane	9.335	107	11816	5.43	ug/L	100
77) 3-Chlorobenzotrifluoride	9.847	180	17004	4.67	ug/L	96
78) Chlorobenzene	9.829	112	31799	4.86	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	14446	4.36	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.914	131	10795	5.14	ug/L	95
81) Ethylbenzene	9.951	106	16134	4.85	ug/L	99
82) (m+p)Xylene	10.061	106	41846	9.96	ug/L	90
83) o-Xylene	10.420	106	21267	5.35	ug/L	98
84) Styrene	10.433	104	33789	4.93	ug/L	94
85) Bromoform	10.585	173	7968	6.22	ug/L	91
86) 2-Chlorobenzotrifluoride	10.664	180	15474	4.39	ug/L	96
87) Isopropylbenzene	10.756	105	49747	4.70	ug/L	96
88) Cyclohexanone	10.817	55	86528	118.72	ug/L	96
89) trans-1,4-Dichloro-2-B...	11.060	53	5075	6.93	ug/L	89
91) 1,1,2,2-Tetrachloroethane	11.012	83	15688	5.22	ug/L	96
92) Bromobenzene	11.000	156	13067	5.19	ug/L	92
93) 1,2,3-Trichloropropane	11.042	110	5411	5.90	ug/L #	84
94) n-Propylbenzene	11.109	91	61862	5.22	ug/L	99
95) 2-Chlorotoluene	11.170	91	35729	5.13	ug/L	99
96) 3-Chlorotoluene	11.225	91	36200	5.17	ug/L	95
97) 4-Chlorotoluene	11.262	91	44951	5.40	ug/L	93
98) 1,3,5-Trimethylbenzene	11.262	105	42396	5.28	ug/L	93
99) tert-Butylbenzene	11.536	119	37466	5.46	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	43521	5.49	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	12077	4.49	ug/L	98
102) sec-Butylbenzene	11.719	105	54484	5.35	ug/L	99
103) p-Isopropyltoluene	11.841	119	44066	5.13	ug/L	96

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2529.D  
 Acq On : 11 Apr 2018 12:39 pm  
 Operator : D.LIPANI  
 Sample : STD #4 - 5.0 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 11 13:20:37 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration

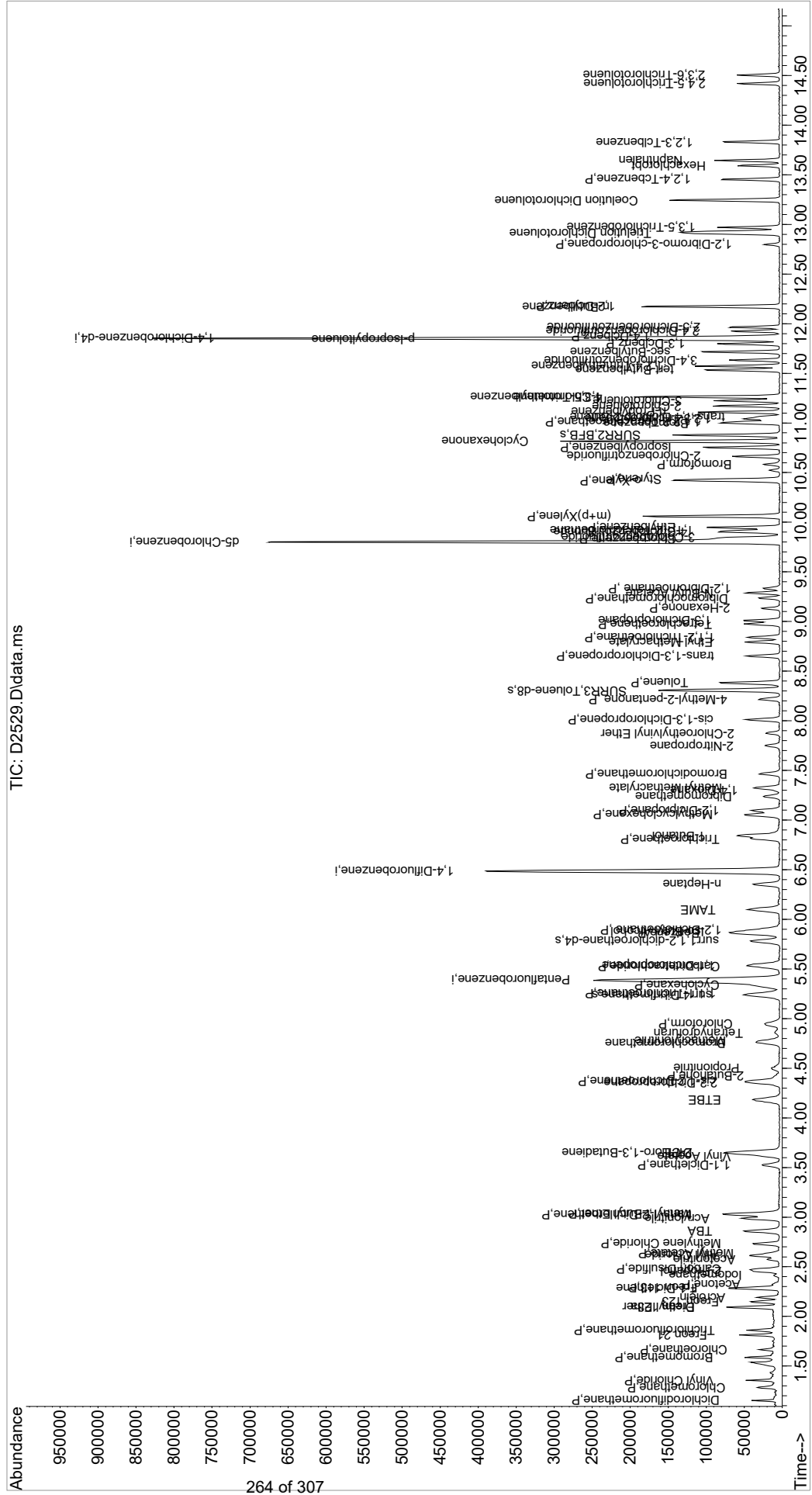
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	24042	4.87	ug/L	95
105) 1,4-Dclbenz	11.871	146	24958	4.85	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	11836	4.69	ug/L	94
107) 2,5-Dichlorobenzotrifl...	11.969	214	13110	4.70	ug/L	98
108) n-Butylbenzene	12.170	91	42595	5.17	ug/L	97
109) 1,2-Dclbenz	12.176	146	23779	4.81	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.798	157	3541	6.33	ug/L	92
111) Trielution Dichlorotol...	12.914	125	63839	16.06	ug/L	95
112) 1,3,5-Trichlorobenzene	12.975	180	18046	4.89	ug/L	94
113) Coelution Dichlorotoluene	13.243	125	45772	10.50	ug/L	95
114) 1,2,4-Tcbenzene	13.456	180	17882	5.03	ug/L	97
115) Hexachlorobt	13.591	225	7846	5.03	ug/L	92
116) Naphthalen	13.645	128	47696	5.87	ug/L	97
117) 1,2,3-Tclbenzene	13.828	180	17955	5.33	ug/L	87
118) 2,4,5-Trichlorotoluene	14.420	159	10824	5.85	ug/L	98
119) 2,3,6-Trichlorotoluene	14.505	159	10091	5.75	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQDATA\msvoa10\data\041118\  
 Data File : D2529.D  
 Acq On : 11 Apr 2018 12:39 pm  
 Operator : D.LIPANI  
 Sample : STD #4 - 5.0 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 9 Sample Multiplier: 1  
 Inst : MSVOA10

Quant Time: Apr 11 13:20:37 2018  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Fri Apr 06 14:06:55 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2530.D  
 Acq On : 11 Apr 2018 1:54 pm  
 Operator : D.LIPANI  
 Sample : STD #5 - 20 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 11 14:08:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.391	168	213563	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	321598	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	276747	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	148704	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	38931	19.48	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	38.96%#		
46) surr1,1,2-dichloroetha...	5.781	65	51504	19.88	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	39.76%#		
64) SURR3,Toluene-d8	8.311	98	159762	19.63	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	39.26%#		
69) SURR2,BFB	10.878	95	63580	20.33	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	40.66%#		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.154	85	69680	21.90	ug/L	98
3) Chloromethane	1.282	50	77319	20.77	ug/L	92
4) Vinyl Chloride	1.361	62	71372	21.13	ug/L	95
5) Bromomethane	1.593	94	48417	20.31	ug/L	94
6) Chloroethane	1.666	64	42228	21.68	ug/L	96
7) Freon 21	1.812	67	103281	21.51	ug/L	99
8) Trichlorofluoromethane	1.861	101	75819	22.33	ug/L	97
9) Diethyl Ether	2.093	59	44047	19.98	ug/L	96
10) Freon 123a	2.099	67	60156	20.96	ug/L	99
11) Freon 123	2.148	83	64063	21.33	ug/L	98
12) Acrolein	2.196	56	62060	98.66	ug/L	96
13) 1,1-Dicethene	2.288	96	41234	19.73	ug/L	96
14) Freon 113	2.294	101	44273	20.25	ug/L	99
15) Acetone	2.324	43	28343	21.87	ug/L	99
16) 2-Propanol	2.459	45	112688	438.17	ug/L	93
17) Iodomethane	2.416	142	50659	19.48	ug/L	99
18) Carbon Disulfide	2.477	76	130833	21.87	ug/L	98
19) Acetonitrile	2.574	41	45251	97.04	ug/L	96
20) Allyl Chloride	2.617	76	26221	22.21	ug/L #	84
21) Methyl Acetate	2.641	43	53359	20.34	ug/L	98
22) Methylene Chloride	2.733	84	46931	19.41	ug/L	96
23) TBA	2.861	59	162980	462.94	ug/L	80
24) Acrylonitrile	2.989	53	123998	95.99	ug/L	98
25) Methyl-t-Butyl Ether	3.038	73	157668	21.82	ug/L	100
26) trans-1,2-Dichloroethene	3.025	96	44713	19.88	ug/L	96
27) 1,1-Dicethane	3.525	63	87475	20.58	ug/L	99
28) Vinyl Acetate	3.617	86	11941	24.02	ug/L #	82
29) DIPE	3.653	45	178574	20.50	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.653	53	84304	21.34	ug/L	93
31) ETBE	4.184	59	164674	22.48	ug/L	97
32) 2,2-Dichloropropane	4.361	77	74680	23.26	ug/L	98
33) cis-1,2-Dichloroethene	4.373	96	50148	20.32	ug/L	94
34) 2-Butanone	4.415	43	34878	20.09	ug/L	95
35) Propionitrile	4.495	54	50486	94.97	ug/L	96
36) Bromochloromethane	4.763	130	28868	19.69	ug/L	97
37) Methacrylonitrile	4.769	67	24476	17.88	ug/L	95
38) Tetrahydrofuran	4.854	42	20854	19.89	ug/L	97
39) Chloroform	4.946	83	80053	20.90	ug/L	94
40) 1,1,1-Trichloroethane	5.245	97	70270	21.31	ug/L	93

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2530.D  
 Acq On : 11 Apr 2018 1:54 pm  
 Operator : D.LIPANI  
 Sample : STD #5 - 20 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 11 14:08:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	54391	21.55	ug/L	88
44) Carbontetrachloride	5.531	117	58764	21.67	ug/L	98
45) 1,1-Dichloropropene	5.543	75	64817	19.80	ug/L	90
47) Benzene	5.860	78	185051	20.47	ug/L	99
48) 1,2-Dichloroethane	5.897	62	72941	21.60	ug/L	96
49) Iso-Butyl Alcohol	5.872	43	73054	425.77	ug/L	100
50) TAME	6.098	73	150811	22.95	ug/L	96
51) n-Heptane	6.354	43	69483	20.00	ug/L	95
52) 1-Butanol	6.842	56	109652	1182.49	ug/L	100
53) Trichloroethene	6.811	130	46716	19.98	ug/L	95
54) Methylcyclohexane	7.049	55	64219	20.32	ug/L	98
55) 1,2-Diclpropane	7.098	63	50782	20.60	ug/L	99
56) Dibromomethane	7.238	93	30346	20.50	ug/L	97
57) 1,4-Dioxane	7.299	88	16444	369.29	ug/L	97
58) Methyl Methacrylate	7.323	69	40094	19.72	ug/L	97
59) Bromodichloromethane	7.464	83	59943	21.02	ug/L	98
60) 2-Nitropropane	7.750	41	39832	49.92	ug/L	95
61) 2-Chloroethylvinyl Ether	7.872	63	26120	19.32	ug/L	95
62) cis-1,3-Dichloropropene	8.012	75	80061	22.37	ug/L	97
63) 4-Methyl-2-pentanone	8.220	43	63885	19.89	ug/L	95
65) Toluene	8.384	91	191724	19.19	ug/L	99
66) trans-1,3-Dichloropropene	8.652	75	73693	22.79	ug/L	95
67) Ethyl Methacrylate	8.793	69	69805	20.98	ug/L	100
68) 1,1,2-Trichloroethane	8.841	97	41708	20.06	ug/L	93
71) Tetrachloroethene	8.976	164	34125	19.39	ug/L	93
72) 2-Hexanone	9.134	43	47905	19.86	ug/L	99
73) 1,3-Dichloropropane	9.012	76	75172	19.50	ug/L	94
74) Dibromochloromethane	9.238	129	43764	21.28	ug/L	97
75) N-Butyl Acetate	9.286	43	107057	20.80	ug/L	97
76) 1,2-Dibromoethane	9.335	107	44288	20.21	ug/L	98
77) 3-Chlorobenzotrifluoride	9.847	180	65957	19.27	ug/L	97
78) Chlorobenzene	9.829	112	122389	19.84	ug/L	97
79) 4-Chlorobenzotrifluoride	9.902	180	58507	19.44	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.914	131	42755	20.59	ug/L	94
81) Ethylbenzene	9.951	106	63974	19.80	ug/L	94
82) (m+p)Xylene	10.061	106	157675	38.92	ug/L	99
83) o-Xylene	10.420	106	78850	19.47	ug/L	92
84) Styrene	10.433	104	136026	20.29	ug/L	97
85) Bromoform	10.585	173	29277	21.27	ug/L	96
86) 2-Chlorobenzotrifluoride	10.664	180	63337	19.19	ug/L	97
87) Isopropylbenzene	10.756	105	202015	19.34	ug/L	99
88) Cyclohexanone	10.817	55	296202	384.24	ug/L	99
89) trans-1,4-Dichloro-2-B...	11.060	53	17596	19.23	ug/L	75
91) 1,1,2,2-Tetrachloroethane	11.012	83	58419	19.05	ug/L	97
92) Bromobenzene	11.000	156	50418	19.36	ug/L	97
93) 1,2,3-Trichloropropane	11.042	110	18827	19.63	ug/L	94
94) n-Propylbenzene	11.109	91	242450	19.75	ug/L	100
95) 2-Chlorotoluene	11.170	91	141777	19.33	ug/L	99
96) 3-Chlorotoluene	11.225	91	143973	20.19	ug/L	97
97) 4-Chlorotoluene	11.268	91	170545	19.55	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	171646	20.20	ug/L	99
99) tert-Butylbenzene	11.536	119	145497	20.11	ug/L	100
100) 1,2,4-Trimethylbenzene	11.573	105	170456	20.42	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.634	214	51385	19.45	ug/L	96
102) sec-Butylbenzene	11.719	105	216492	20.05	ug/L	99
103) p-Isopropyltoluene	11.841	119	182980	20.58	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2530.D  
 Acq On : 11 Apr 2018 1:54 pm  
 Operator : D.LIPANI  
 Sample : STD #5 - 20 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 11 14:08:34 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	96432	19.81	ug/L	96
105) 1,4-Dclbenz	11.871	146	97950	19.18	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	47806	19.84	ug/L	96
107) 2,5-Dichlorobenzotrifl...	11.969	214	55029	20.41	ug/L	100
108) n-Butylbenzene	12.170	91	176436	20.42	ug/L	97
109) 1,2-Dclbenz	12.176	146	94338	19.68	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.798	157	13608	22.05	ug/L #	84
111) Trielution Dichlorotol...	12.920	125	264061	63.44	ug/L	98
112) 1,3,5-Trichlorobenzene	12.975	180	74628	20.56	ug/L	98
113) Coelution Dichlorotoluene	13.243	125	197242	43.82	ug/L	94
114) 1,2,4-Tcbenzene	13.456	180	72518	20.60	ug/L	93
115) Hexachlorobt	13.597	225	33487	21.50	ug/L	95
116) Naphthalen	13.645	128	192577	21.64	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	71968	21.14	ug/L	99
118) 2,4,5-Trichlorotoluene	14.420	159	49407	23.98	ug/L	94
119) 2,3,6-Trichlorotoluene	14.505	159	45835	23.71	ug/L	99

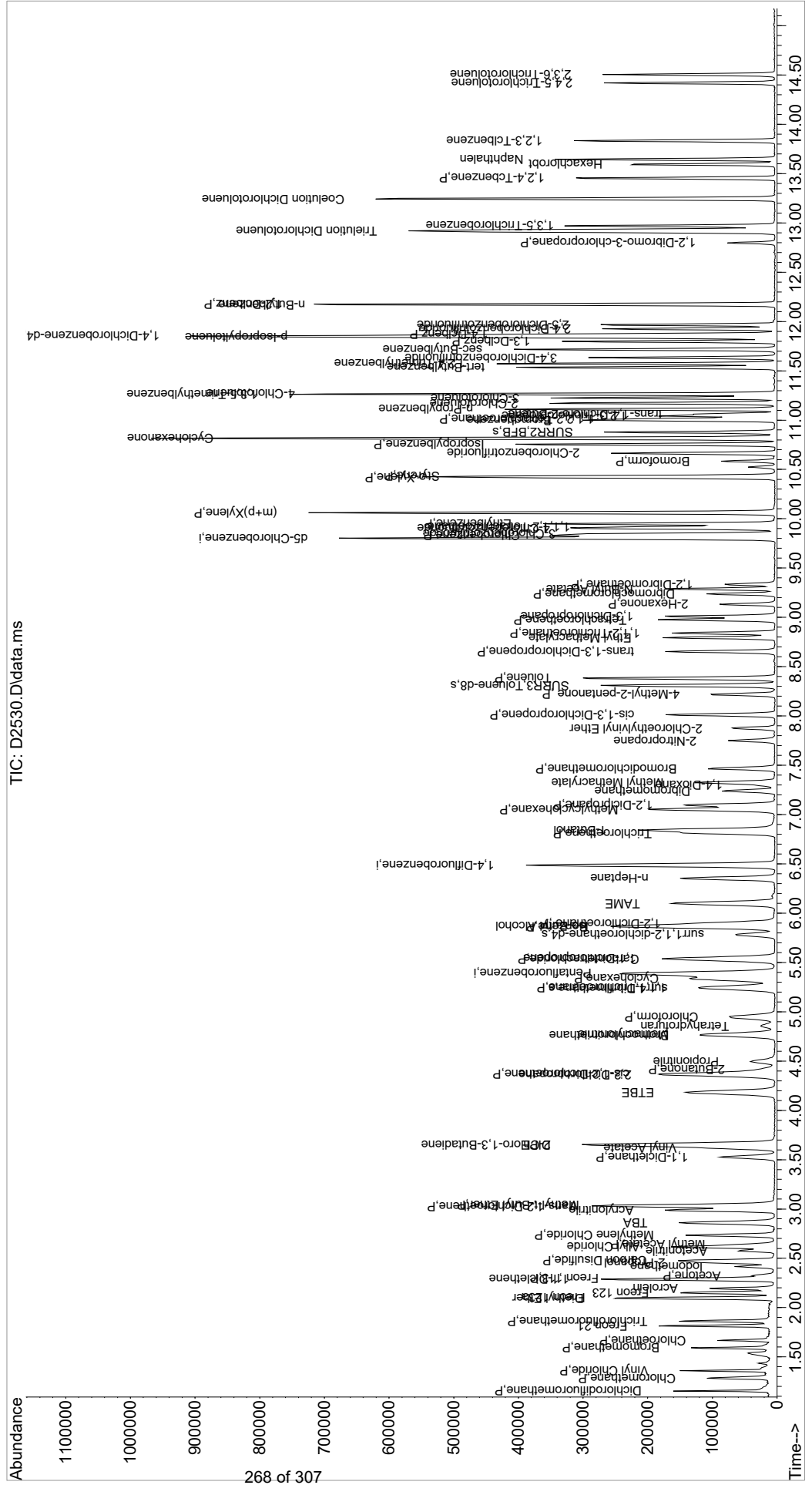
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQDATA\msvoa10\data\041118\  
 Data File : D2530.D  
 Acq On : 11 Apr 2018 1:54 pm  
 Operator : D.LIPANI  
 Sample : STD #5 - 20 PPB  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 14:08:34 2018  
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\MSVOA10\DATA\041118\  
 Data File : D2531.D  
 Acq On : 11 Apr 2018 2:20 pm  
 Operator : D.LIPANI  
 Sample : STD #6 - 50 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 14:34:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.385	168	228903	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	352917	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	305323	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	168983	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.239	113	112121	51.13	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	102.26%	
46) surr1,1,2-dichloroetha...	5.781	65	146631	51.56	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	103.12%	
64) SURR3,Toluene-d8	8.311	98	451898	50.60	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.20%	
69) SURR2,BFB	10.878	95	175578	51.16	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	102.32%	
<b>Target Compounds</b>						
						<b>Qvalue</b>
2) Dichlorodifluoromethane	1.154	85	176456	51.75	ug/L	96
3) Chloromethane	1.282	50	197981	49.61	ug/L	98
4) Vinyl Chloride	1.355	62	187442	51.76	ug/L	99
5) Bromomethane	1.581	94	119031	52.51	ug/L	94
6) Chloroethane	1.660	64	111189	53.25	ug/L	99
7) Freon 21	1.812	67	283481	55.08	ug/L	98
8) Trichlorofluoromethane	1.861	101	204998	56.33	ug/L	99
9) Diethyl Ether	2.087	59	124943	52.88	ug/L	98
10) Freon 123a	2.093	67	163700	53.21	ug/L	96
11) Freon 123	2.148	83	171662	53.32	ug/L	98
12) Acrolein	2.190	56	167084	247.82	ug/L	98
13) 1,1-Dicethene	2.282	96	111252	49.67	ug/L	97
14) Freon 113	2.288	101	120275	51.32	ug/L	99
15) Acetone	2.325	43	79044	56.91	ug/L	91
16) 2-Propanol	2.459	45	318215	1154.41	ug/L	96
17) Iodomethane	2.416	142	157187	51.73	ug/L	99
18) Carbon Disulfide	2.477	76	343336	53.53	ug/L	100
19) Acetonitrile	2.574	41	141567	283.26	ug/L	98
20) Allyl Chloride	2.611	76	68226	53.91	ug/L #	93
21) Methyl Acetate	2.635	43	149891	53.31	ug/L	97
22) Methylene Chloride	2.727	84	123401	47.61	ug/L	93
23) TBA	2.861	59	486103	1288.23	ug/L	80
24) Acrylonitrile	2.983	53	356447	257.45	ug/L	96
25) Methyl-t-Butyl Ether	3.032	73	427928	55.25	ug/L	100
26) trans-1,2-Dichloroethene	3.026	96	120409	49.95	ug/L	99
27) 1,1-Dicethane	3.525	63	237823	52.21	ug/L	99
28) Vinyl Acetate	3.617	86	32567	61.12	ug/L #	86
29) DIPE	3.654	45	475352	50.90	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.647	53	220163	52.00	ug/L	98
31) ETBE	4.184	59	430418	54.81	ug/L	98
32) 2,2-Dichloropropane	4.361	77	202767	58.92	ug/L	96
33) cis-1,2-Dichloroethene	4.367	96	134372	50.81	ug/L #	82
34) 2-Butanone	4.409	43	96365	51.80	ug/L	96
35) Propionitrile	4.495	54	144384	253.39	ug/L	95
36) Bromochloromethane	4.763	130	80339	51.11	ug/L	95
37) Methacrylonitrile	4.763	67	67540	46.02	ug/L #	82
38) Tetrahydrofuran	4.848	42	58888	52.41	ug/L	90
39) Chloroform	4.946	83	215058	52.38	ug/L	97
40) 1,1,1-Trichloroethane	5.245	97	192696	54.52	ug/L	93



Data Path : I:\ACQUDATA\MSVOA10\DATA\041118\  
 Data File : D2531.D  
 Acq On : 11 Apr 2018 2:20 pm  
 Operator : D.LIPANI  
 Sample : STD #6 - 50 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 14:34:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	144808	52.28	ug/L	88
44) Carbontetrachloride	5.525	117	166828	56.07	ug/L	96
45) 1,1-Dichloropropene	5.537	75	178268	49.63	ug/L	97
47) Benzene	5.860	78	494673	49.87	ug/L	99
48) 1,2-Dichloroethane	5.897	62	196370	52.99	ug/L	97
49) Iso-Butyl Alcohol	5.885	43	219032	1163.26	ug/L	94
50) TAME	6.098	73	403690	55.98	ug/L	98
51) n-Heptane	6.354	43	200556	52.61	ug/L	97
52) 1-Butanol	6.848	56	325200	3104.86	ug/L	98
53) Trichloroethene	6.811	130	126992	49.48	ug/L	98
54) Methylcyclohexane	7.055	55	181096	52.21	ug/L	96
55) 1,2-Diclpropane	7.098	63	134832	49.85	ug/L	100
56) Dibromomethane	7.238	93	81074	49.90	ug/L	97
57) 1,4-Dioxane	7.299	88	48780	998.27	ug/L	92
58) Methyl Methacrylate	7.324	69	115283	51.68	ug/L	98
59) Bromodichloromethane	7.464	83	167446	53.51	ug/L	96
60) 2-Nitropropane	7.750	41	114691	130.98	ug/L	97
61) 2-Chloroethylvinyl Ether	7.872	63	73321	49.41	ug/L	93
62) cis-1,3-Dichloropropene	8.012	75	219002	55.11	ug/L	97
63) 4-Methyl-2-pentanone	8.220	43	181118	51.37	ug/L	95
65) Toluene	8.384	91	533424	48.64	ug/L	98
66) trans-1,3-Dichloropropene	8.653	75	203917	57.09	ug/L	98
67) Ethyl Methacrylate	8.793	69	201725	54.28	ug/L	97
68) 1,1,2-Trichloroethane	8.842	97	114100	50.02	ug/L	96
71) Tetrachloroethene	8.976	164	98208	50.58	ug/L	98
72) 2-Hexanone	9.134	43	138087	51.89	ug/L	99
73) 1,3-Dichloropropane	9.012	76	207682	48.84	ug/L	97
74) Dibromochloromethane	9.238	129	126186	55.63	ug/L	98
75) N-Butyl Acetate	9.287	43	303329	53.42	ug/L	98
76) 1,2-Dibromoethane	9.335	107	122255	50.56	ug/L	98
77) 3-Chlorobenzotrifluoride	9.847	180	184285	48.79	ug/L	99
78) Chlorobenzene	9.829	112	339973	49.96	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	165295	49.77	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	124631	54.40	ug/L	97
81) Ethylbenzene	9.951	106	182488	51.18	ug/L	95
82) (m+p)Xylene	10.061	106	459574	102.82	ug/L	97
83) o-Xylene	10.420	106	222878	49.90	ug/L	95
84) Styrene	10.433	104	383293	51.82	ug/L	99
85) Bromoform	10.585	173	87969	55.84	ug/L	97
86) 2-Chlorobenzotrifluoride	10.664	180	180400	49.53	ug/L	98
87) Isopropylbenzene	10.756	105	588255	51.04	ug/L	99
88) Cyclohexanone	10.817	55	885296	1040.95	ug/L	97
89) trans-1,4-Dichloro-2-B...	11.061	53	54956	54.43	ug/L	83
91) 1,1,2,2-Tetrachloroethane	11.012	83	177311	50.88	ug/L	98
92) Bromobenzene	11.000	156	141443	47.79	ug/L	98
93) 1,2,3-Trichloropropane	11.042	110	52890	48.54	ug/L	97
94) n-Propylbenzene	11.109	91	710594	50.94	ug/L	99
95) 2-Chlorotoluene	11.170	91	410810	49.28	ug/L	98
96) 3-Chlorotoluene	11.225	91	404222	49.88	ug/L	98
97) 4-Chlorotoluene	11.268	91	502410	50.69	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	496810	51.45	ug/L	98
99) tert-Butylbenzene	11.536	119	421315	51.25	ug/L	100
100) 1,2,4-Trimethylbenzene	11.573	105	491979	51.86	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	151788	50.57	ug/L	96
102) sec-Butylbenzene	11.719	105	634358	51.71	ug/L	99
103) p-Isopropyltoluene	11.841	119	540354	53.48	ug/L	99

Data Path : I:\ACQUDATA\MSVOA10\DATA\041118\  
 Data File : D2531.D  
 Acq On : 11 Apr 2018 2:20 pm  
 Operator : D.LIPANI  
 Sample : STD #6 - 50 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 14:34:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	275977	49.88	ug/L	97
105) 1,4-Dclbenz	11.871	146	278799	48.05	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	139688	51.02	ug/L	100
107) 2,5-Dichlorobenzotrifl...	11.969	214	156792	51.18	ug/L	97
108) n-Butylbenzene	12.170	91	516892	52.64	ug/L	99
109) 1,2-Dclbenz	12.176	146	273731	50.25	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.798	157	42969	60.57	ug/L	97
111) Trielution Dichlorotol...	12.920	125	734080	155.20	ug/L	97
112) 1,3,5-Trichlorobenzene	12.969	180	207635	50.33	ug/L	97
113) Coelution Dichlorotoluene	13.243	125	534185	104.44	ug/L	94
114) 1,2,4-Tcbenzene	13.456	180	207852	51.97	ug/L	98
115) Hexachlorobt	13.591	225	97340	54.99	ug/L	98
116) Naphthalen	13.645	128	552231	54.61	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	199579	51.59	ug/L	96
118) 2,4,5-Trichlorotoluene	14.420	159	138986	59.37	ug/L	99
119) 2,3,6-Trichlorotoluene	14.505	159	126338	57.50	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2531.D  
 Acq On : 11 Apr 2018 2:20 pm  
 Operator : D.LIPANI  
 Sample : STD #6 - 50 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 14:34:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Pentafluorobenzene	5.385	168	228903	50.00	ug/L	0.00	
41) 1,4-Difluorobenzene	6.488	114	352917	50.00	ug/L	0.00	
70) d5-Chlorobenzene	9.805	117	305323	50.00	ug/L	0.00	
90) 1,4-Dichlorobenzene-d4	11.853	152	168983	50.00	ug/L	0.00	
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.239	113	112121	51.13	ug/L	0.00	
Spiked Amount	50.000	Range 89 - 119	Recovery	=	102.26%		
46) surr1,1,2-dichloroetha...	5.781	65	146631	51.56	ug/L	0.00	
Spiked Amount	50.000	Range 73 - 125	Recovery	=	103.12%		
64) SURR3,Toluene-d8	8.311	98	451898	50.60	ug/L	0.00	
Spiked Amount	50.000	Range 87 - 121	Recovery	=	101.20%		
69) SURR2,BFB	10.878	95	175578	51.16	ug/L	0.00	
Spiked Amount	50.000	Range 85 - 122	Recovery	=	102.32%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane	1.154	85	176456	51.75	ug/L		96
3) Chloromethane	1.282	50	197981	49.61	ug/L		98
4) Vinyl Chloride	1.355	62	187442	51.76	ug/L		99
5) Bromomethane	1.581	94	119031	52.51	ug/L		94
6) Chloroethane	1.660	64	111189	53.25	ug/L		99
7) Freon 21	1.812	67	283481	55.08	ug/L		98
8) Trichlorofluoromethane	1.861	101	204998	56.33	ug/L		99
9) Diethyl Ether	2.087	59	124943	52.88	ug/L		98
10) Freon 123a	2.093	67	163700	53.21	ug/L		96
11) Freon 123	2.148	83	171662	53.32	ug/L		98
12) Acrolein	2.190	56	167084	247.82	ug/L		98
13) 1,1-Diclcethene	2.282	96	111252	49.67	ug/L		97
14) Freon 113	2.288	101	120275	51.32	ug/L		99
15) Acetone	2.325	43	79044	56.91	ug/L		91
16) 2-Propanol	2.459	45	318215	1154.41	ug/L		96
17) Iodomethane	2.416	142	157187	51.73	ug/L		99
18) Carbon Disulfide	2.477	76	343336	53.53	ug/L		100
19) Acetonitrile	2.574	41	141567	283.26	ug/L		98
20) Allyl Chloride	2.611	76	68226	53.91	ug/L	#	93
21) Methyl Acetate	2.635	43	149891	53.31	ug/L		97
22) Methylene Chloride	2.727	84	123401	47.61	ug/L		93
23) TBA	2.861	59	486103	1288.23	ug/L		80
24) Acrylonitrile	2.983	53	356447	257.45	ug/L		96
25) Methyl-t-Butyl Ether	3.032	73	427928	55.25	ug/L		100
26) trans-1,2-Dichloroethene	3.026	96	120409	49.95	ug/L		99
27) 1,1-Diclcethane	3.525	63	237823	52.21	ug/L		99
28) Vinyl Acetate	3.617	86	32567	61.12	ug/L	#	86
29) DIPE	3.654	45	475352	50.90	ug/L		99
30) 2-Chloro-1,3-Butadiene	3.647	53	220163	52.00	ug/L		98
31) ETBE	4.184	59	430418	54.81	ug/L		98
32) 2,2-Dichloropropane	4.361	77	202767	58.92	ug/L		96
33) cis-1,2-Dichloroethene	4.367	96	134372	50.81	ug/L	#	82
34) 2-Butanone	4.409	43	96365	51.80	ug/L		96
35) Propionitrile	4.495	54	144384	253.39	ug/L		95
36) Bromochloromethane	4.763	130	80339	51.11	ug/L		95
37) Methacrylonitrile	4.763	67	67540	46.02	ug/L	#	82
38) Tetrahydrofuran	4.848	42	58888	52.41	ug/L		90
39) Chloroform	4.946	83	215058	52.38	ug/L		97
40) 1,1,1-Trichloroethane	5.245	97	192696	54.52	ug/L		93

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2531.D  
 Acq On : 11 Apr 2018 2:20 pm  
 Operator : D.LIPANI  
 Sample : STD #6 - 50 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 14:34:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	144808	52.28	ug/L	88
44) Carbontetrachloride	5.525	117	166828	56.07	ug/L	96
45) 1,1-Dichloropropene	5.537	75	178268	49.63	ug/L	97
47) Benzene	5.860	78	494673	49.87	ug/L	99
48) 1,2-Dichloroethane	5.897	62	196370	52.99	ug/L	97
49) Iso-Butyl Alcohol	5.885	43	219032	1163.26	ug/L	94
50) TAME	6.098	73	403690	55.98	ug/L	98
51) n-Heptane	6.354	43	200556	52.61	ug/L	97
52) 1-Butanol	6.848	56	325200	3104.86	ug/L	98
53) Trichloroethene	6.811	130	126992	49.48	ug/L	98
54) Methylcyclohexane	7.055	55	181096	52.21	ug/L	96
55) 1,2-Diclpropane	7.098	63	134832	49.85	ug/L	100
56) Dibromomethane	7.238	93	81074	49.90	ug/L	97
57) 1,4-Dioxane	7.299	88	48780	998.27	ug/L	92
58) Methyl Methacrylate	7.324	69	115283	51.68	ug/L	98
59) Bromodichloromethane	7.464	83	167446	53.51	ug/L	96
60) 2-Nitropropane	7.750	41	114691	130.98	ug/L	97
61) 2-Chloroethylvinyl Ether	7.872	63	73321	49.41	ug/L	93
62) cis-1,3-Dichloropropene	8.012	75	219002	55.11	ug/L	97
63) 4-Methyl-2-pentanone	8.220	43	181118	51.37	ug/L	95
65) Toluene	8.384	91	533424	48.64	ug/L	98
66) trans-1,3-Dichloropropene	8.653	75	203917	57.09	ug/L	98
67) Ethyl Methacrylate	8.793	69	201725	54.28	ug/L	97
68) 1,1,2-Trichloroethane	8.842	97	114100	50.02	ug/L	96
71) Tetrachloroethene	8.976	164	98208	50.58	ug/L	98
72) 2-Hexanone	9.134	43	138087	51.89	ug/L	99
73) 1,3-Dichloropropane	9.012	76	207682	48.84	ug/L	97
74) Dibromochloromethane	9.238	129	126186	55.63	ug/L	98
75) N-Butyl Acetate	9.287	43	303329	53.42	ug/L	98
76) 1,2-Dibromoethane	9.335	107	122255	50.56	ug/L	98
77) 3-Chlorobenzotrifluoride	9.847	180	184285	48.79	ug/L	99
78) Chlorobenzene	9.829	112	339973	49.96	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	165295	49.77	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	124631	54.40	ug/L	97
81) Ethylbenzene	9.951	106	182488	51.18	ug/L	95
82) (m+p)Xylene	10.061	106	459574	102.82	ug/L	97
83) o-Xylene	10.420	106	222878	49.90	ug/L	95
84) Styrene	10.433	104	383293	51.82	ug/L	99
85) Bromoform	10.585	173	87969	55.84	ug/L	97
86) 2-Chlorobenzotrifluoride	10.664	180	180400	49.53	ug/L	98
87) Isopropylbenzene	10.756	105	588255	51.04	ug/L	99
88) Cyclohexanone	10.817	55	885296	1040.95	ug/L	97
89) trans-1,4-Dichloro-2-B...	11.061	53	54956	54.43	ug/L	83
91) 1,1,2,2-Tetrachloroethane	11.012	83	177311	50.88	ug/L	98
92) Bromobenzene	11.000	156	141443	47.79	ug/L	98
93) 1,2,3-Trichloropropane	11.042	110	52890	48.54	ug/L	97
94) n-Propylbenzene	11.109	91	710594	50.94	ug/L	99
95) 2-Chlorotoluene	11.170	91	410810	49.28	ug/L	98
96) 3-Chlorotoluene	11.225	91	404222	49.88	ug/L	98
97) 4-Chlorotoluene	11.268	91	502410	50.69	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	496810	51.45	ug/L	98
99) tert-Butylbenzene	11.536	119	421315	51.25	ug/L	100
100) 1,2,4-Trimethylbenzene	11.573	105	491979	51.86	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	151788	50.57	ug/L	96
102) sec-Butylbenzene	11.719	105	634358	51.71	ug/L	99
103) p-Isopropyltoluene	11.841	119	540354	53.48	ug/L	99

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2531.D  
 Acq On : 11 Apr 2018 2:20 pm  
 Operator : D.LIPANI  
 Sample : STD #6 - 50 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 11 14:34:58 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 13:22:53 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	275977	49.88	ug/L	97
105) 1,4-Dclbenz	11.871	146	278799	48.05	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.926	214	139688	51.02	ug/L	100
107) 2,5-Dichlorobenzotrifl...	11.969	214	156792	51.18	ug/L	97
108) n-Butylbenzene	12.170	91	516892	52.64	ug/L	99
109) 1,2-Dclbenz	12.176	146	273731	50.25	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.798	157	42969	60.57	ug/L	97
111) Trielution Dichlorotol...	12.920	125	734080	155.20	ug/L	97
112) 1,3,5-Trichlorobenzene	12.969	180	207635	50.33	ug/L	97
113) Coelution Dichlorotoluene	13.243	125	534185	104.44	ug/L	94
114) 1,2,4-Tcbenzene	13.456	180	207852	51.97	ug/L	98
115) Hexachlorobt	13.591	225	97340	54.99	ug/L	98
116) Naphthalen	13.645	128	552231	54.61	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	199579	51.59	ug/L	96
118) 2,4,5-Trichlorotoluene	14.420	159	138986	59.37	ug/L	99
119) 2,3,6-Trichlorotoluene	14.505	159	126338	57.50	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2532.D  
 Acq On : 11 Apr 2018 3:01 pm  
 Operator : D.LIPANI  
 Sample : STD #7 - 100 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 15:15:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 14:49:26 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	230086	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	352356	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	309892	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	173862	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.232	113	224113	101.58	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	203.16%#	
46) surr1,1,2-dichloroetha...	5.775	65	285868	99.15	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	198.30%#	
64) SURR3,Toluene-d8	8.311	98	871664	97.42	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	194.84%#	
69) SURR2,BFB	10.878	95	350220	100.17	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	200.34%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.154	85	351001	100.96	ug/L	98
3) Chloromethane	1.282	50	401140	98.58	ug/L	100
4) Vinyl Chloride	1.355	62	375886	100.75	ug/L	97
5) Bromomethane	1.575	94	228716	152.68	ug/L	97
6) Chloroethane	1.660	64	220937	102.46	ug/L	99
7) Freon 21	1.812	67	565478	105.00	ug/L	99
8) Trichlorofluoromethane	1.855	101	399250	104.22	ug/L	97
9) Diethyl Ether	2.093	59	238823	98.21	ug/L	99
10) Freon 123a	2.093	67	321311	100.86	ug/L	95
11) Freon 123	2.148	83	337510	101.81	ug/L	99
12) Acrolein	2.190	56	328282	482.28	ug/L	97
13) 1,1-Dicethene	2.282	96	227662	99.95	ug/L	96
14) Freon 113	2.288	101	241788	101.15	ug/L	98
15) Acetone	2.324	43	151682	103.75	ug/L	96
16) 2-Propanol	2.459	45	628128	2086.43	ug/L	97
17) Iodomethane	2.410	142	345211	108.66	ug/L	100
18) Carbon Disulfide	2.471	76	710316	106.62	ug/L	100
19) Acetonitrile	2.574	41	275272	543.85	ug/L	98
20) Allyl Chloride	2.611	76	137852	103.90	ug/L	97
21) Methyl Acetate	2.635	43	291455	100.01	ug/L	100
22) Methylene Chloride	2.727	84	252340	95.91	ug/L	97
23) TBA	2.861	59	931088	2181.54	ug/L	100
24) Acrylonitrile	2.983	53	696898	497.71	ug/L	97
25) Methyl-t-Butyl Ether	3.032	73	852717	105.18	ug/L	99
26) trans-1,2-Dichloroethene	3.026	96	240243	97.72	ug/L	97
27) 1,1-Dicethane	3.525	63	467204	100.12	ug/L	99
28) Vinyl Acetate	3.617	86	62192	107.37	ug/L #	94
29) DIPE	3.647	45	968086	101.27	ug/L	95
30) 2-Chloro-1,3-Butadiene	3.647	53	445478	102.49	ug/L	98
31) ETBE	4.178	59	879208	105.59	ug/L	99
32) 2,2-Dichloropropane	4.361	77	411531	108.31	ug/L	100
33) cis-1,2-Dichloroethene	4.367	96	267772	99.26	ug/L	93
34) 2-Butanone	4.409	43	191925	100.41	ug/L	95
35) Propionitrile	4.501	54	280050	483.83	ug/L	95
36) Bromochloromethane	4.763	130	160593	101.31	ug/L	93
37) Methacrylonitrile	4.769	67	131934	87.70	ug/L	95
38) Tetrahydrofuran	4.848	42	109482	95.46	ug/L	97
39) Chloroform	4.946	83	429204	102.75	ug/L	99
40) 1,1,1-Trichloroethane	5.245	97	382161	102.92	ug/L	94



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2532.D  
 Acq On : 11 Apr 2018 3:01 pm  
 Operator : D.LIPANI  
 Sample : STD #7 - 100 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 15:15:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 14:49:26 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	279847	98.68	ug/L	98
44) Carbontetrachloride	5.525	117	330735	106.62	ug/L	99
45) 1,1-Dichloropropene	5.537	75	354747	98.08	ug/L	95
47) Benzene	5.860	78	986252	99.78	ug/L	100
48) 1,2-Dichloroethane	5.897	62	390361	103.69	ug/L	98
49) Iso-Butyl Alcohol	5.885	43	425174	2101.54	ug/L	95
50) TAME	6.098	73	812753	106.46	ug/L	99
51) n-Heptane	6.354	43	390286	100.41	ug/L	98
52) 1-Butanol	6.854	56	647951	5467.16	ug/L	100
53) Trichloroethene	6.811	130	248586	96.95	ug/L	97
54) Methylcyclohexane	7.049	55	351612	99.83	ug/L	97
55) 1,2-Diclpropane	7.098	63	269070	99.41	ug/L	100
56) Dibromomethane	7.238	93	164187	100.69	ug/L	98
57) 1,4-Dioxane	7.299	88	95383	1947.65	ug/L	98
58) Methyl Methacrylate	7.324	69	223696	98.05	ug/L	98
59) Bromodichloromethane	7.464	83	337145	105.34	ug/L	99
60) 2-Nitropropane	7.750	41	225114	223.10	ug/L	96
61) 2-Chloroethylvinyl Ether	7.878	63	145305	97.60	ug/L	95
62) cis-1,3-Dichloropropene	8.012	75	441472	104.74	ug/L	97
63) 4-Methyl-2-pentanone	8.220	43	345135	96.47	ug/L	95
65) Toluene	8.384	91	1062354	97.15	ug/L	99
66) trans-1,3-Dichloropropene	8.653	75	411728	107.54	ug/L	99
67) Ethyl Methacrylate	8.793	69	389673	99.11	ug/L	93
68) 1,1,2-Trichloroethane	8.842	97	228182	100.24	ug/L	95
71) Tetrachloroethene	8.976	164	199939	102.11	ug/L	98
72) 2-Hexanone	9.134	43	263840	95.36	ug/L	98
73) 1,3-Dichloropropane	9.012	76	422795	98.74	ug/L	99
74) Dibromochloromethane	9.238	129	257317	109.06	ug/L	99
75) N-Butyl Acetate	9.287	43	599231	99.86	ug/L	98
76) 1,2-Dibromoethane	9.335	107	244809	98.68	ug/L	98
77) 3-Chlorobenzotrifluoride	9.847	180	390120	101.85	ug/L	99
78) Chlorobenzene	9.829	112	679791	98.81	ug/L	96
79) 4-Chlorobenzotrifluoride	9.902	180	345982	102.51	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	250853	105.25	ug/L	97
81) Ethylbenzene	9.951	106	368012	101.88	ug/L	100
82) (m+p)Xylene	10.061	106	928914	205.02	ug/L	99
83) o-Xylene	10.420	106	450387	99.27	ug/L	99
84) Styrene	10.433	104	788794	104.78	ug/L	98
85) Bromoform	10.585	173	186270	106.93	ug/L	99
86) 2-Chlorobenzotrifluoride	10.664	180	381529	103.50	ug/L	99
87) Isopropylbenzene	10.756	105	1203373	103.05	ug/L	99
88) Cyclohexanone	10.817	55	1713598	1968.21	ug/L	98
89) trans-1,4-Dichloro-2-B...	11.061	53	109962	101.33	ug/L	96
91) 1,1,2,2-Tetrachloroethane	11.012	83	360426	100.10	ug/L	99
92) Bromobenzene	11.000	156	298695	98.56	ug/L	98
93) 1,2,3-Trichloropropane	11.042	110	108711	95.51	ug/L	97
94) n-Propylbenzene	11.109	91	1449650	100.50	ug/L	99
95) 2-Chlorotoluene	11.176	91	844572	98.04	ug/L	99
96) 3-Chlorotoluene	11.225	91	847958	100.55	ug/L	99
97) 4-Chlorotoluene	11.268	91	1037272	100.82	ug/L	98
98) 1,3,5-Trimethylbenzene	11.262	105	1039893	103.40	ug/L	99
99) tert-Butylbenzene	11.536	119	878749	102.72	ug/L	100
100) 1,2,4-Trimethylbenzene	11.573	105	1033153	104.59	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.634	214	329282	106.31	ug/L	95
102) sec-Butylbenzene	11.719	105	1331466	104.52	ug/L	99
103) p-Isopropyltoluene	11.841	119	1127853	106.94	ug/L	100

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2532.D  
 Acq On : 11 Apr 2018 3:01 pm  
 Operator : D.LIPANI  
 Sample : STD #7 - 100 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 15:15:32 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 14:49:26 2018  
 Response via : Initial Calibration

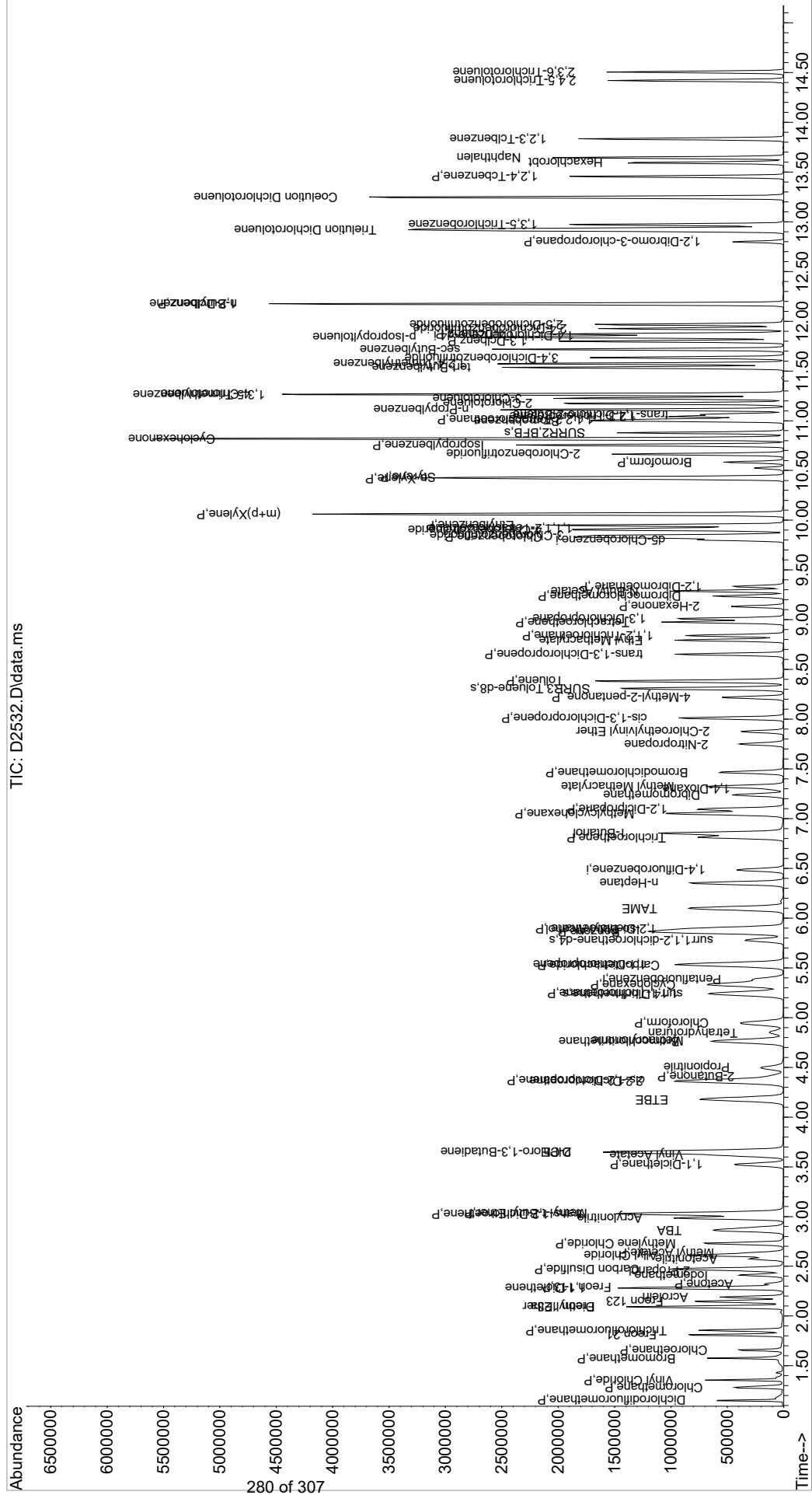
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	576299	101.49	ug/L	100
105) 1,4-Dclbenz	11.871	146	589740	99.11	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	304383	107.04	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	329255	103.83	ug/L	98
108) n-Butylbenzene	12.176	91	1091602	106.18	ug/L	97
109) 1,2-Dclbenz	12.176	146	576521	103.35	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	85840	107.71	ug/L	90
111) Trielution Dichlorotol...	12.920	125	1594397	320.61	ug/L	95
112) 1,3,5-Trichlorobenzene	12.975	180	445636	104.18	ug/L	100
113) Coelution Dichlorotoluene	13.249	125	1145508	213.10	ug/L	95
114) 1,2,4-Tcbenzene	13.456	180	433974	104.77	ug/L	100
115) Hexachlorobt	13.597	225	206103	109.19	ug/L	96
116) Naphthalen	13.645	128	1135975	106.61	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	415800	103.14	ug/L	97
118) 2,4,5-Trichlorotoluene	14.420	159	300496	116.49	ug/L	97
119) 2,3,6-Trichlorotoluene	14.505	159	269544	111.80	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQDATA\msvoa10\data\041118\  
Data File : D2532.D  
Acq On : 11 Apr 2018 3:01 pm  
Operator : D.LIPANI  
Sample : STD #7 - 100 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 15:15:32 2018  
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 14:49:26 2018  
Response via : Initial Calibration

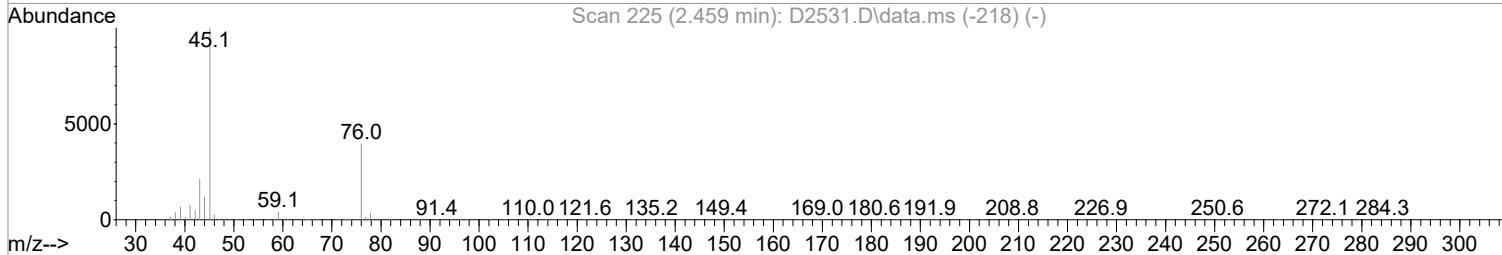
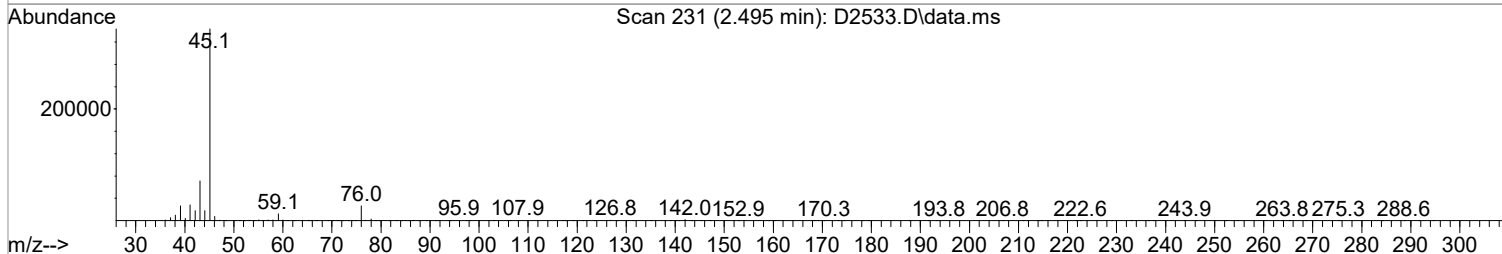
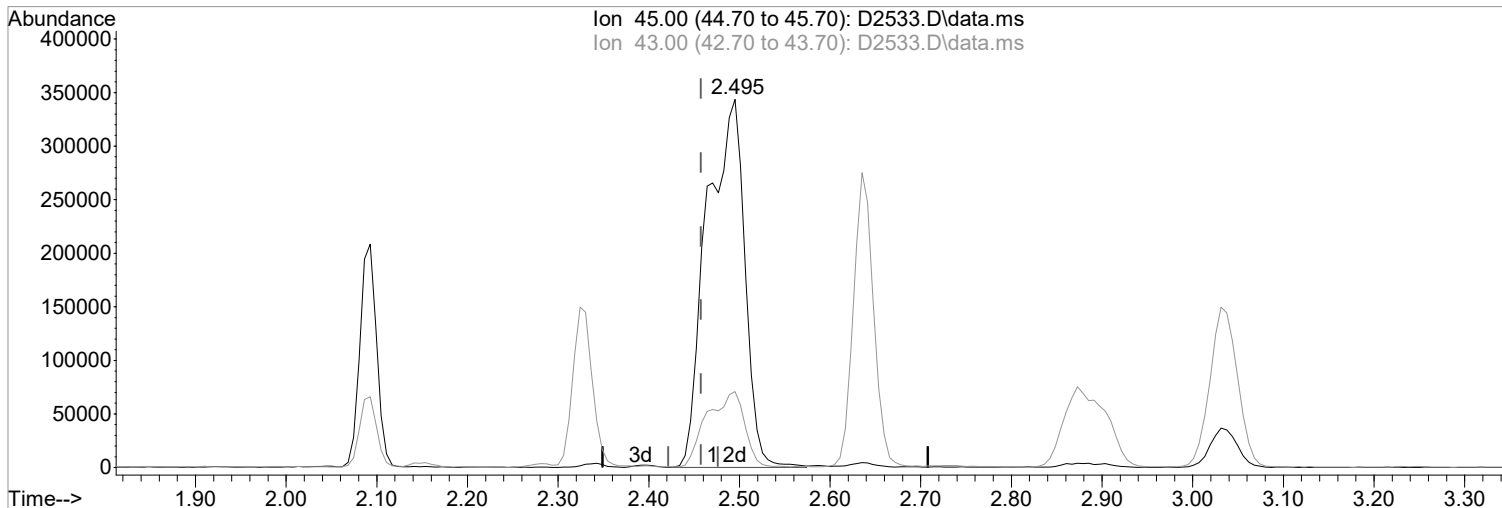


1st DL 04/12/18  
2nd FU 04/12/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2533.D  
Acq On : 11 Apr 2018 3:27 pm  
Operator : D.LIPANI  
Sample : STD #8 - 150 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 15:48:23 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 15:48:15 2018  
Response via : Initial Calibration



(16) 2-Propanol  
2.495min (+0.037) 3263.75 ug/L m  
response 995582

Manual Integration:

After

Poor integration.

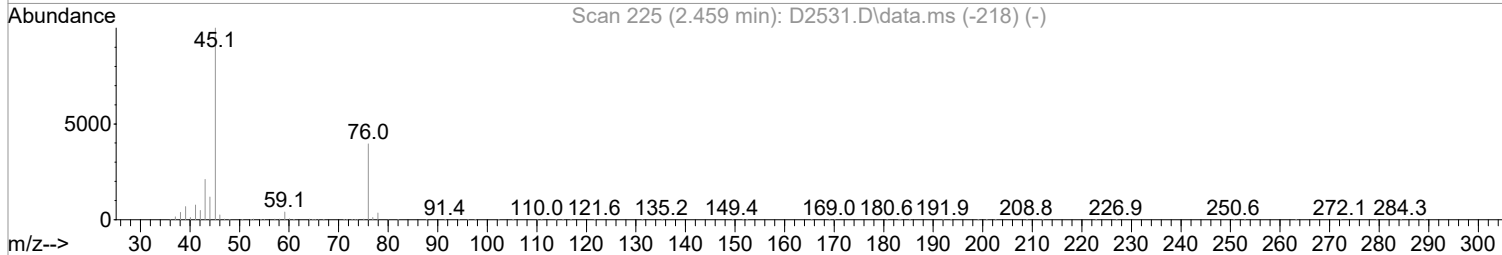
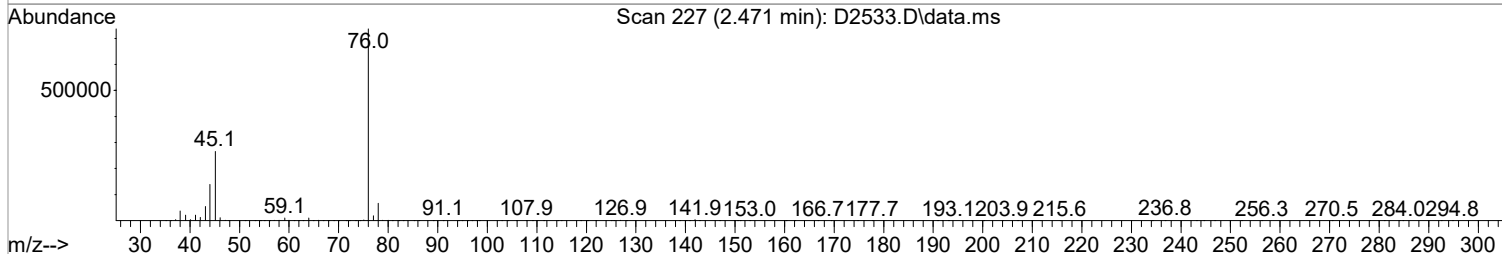
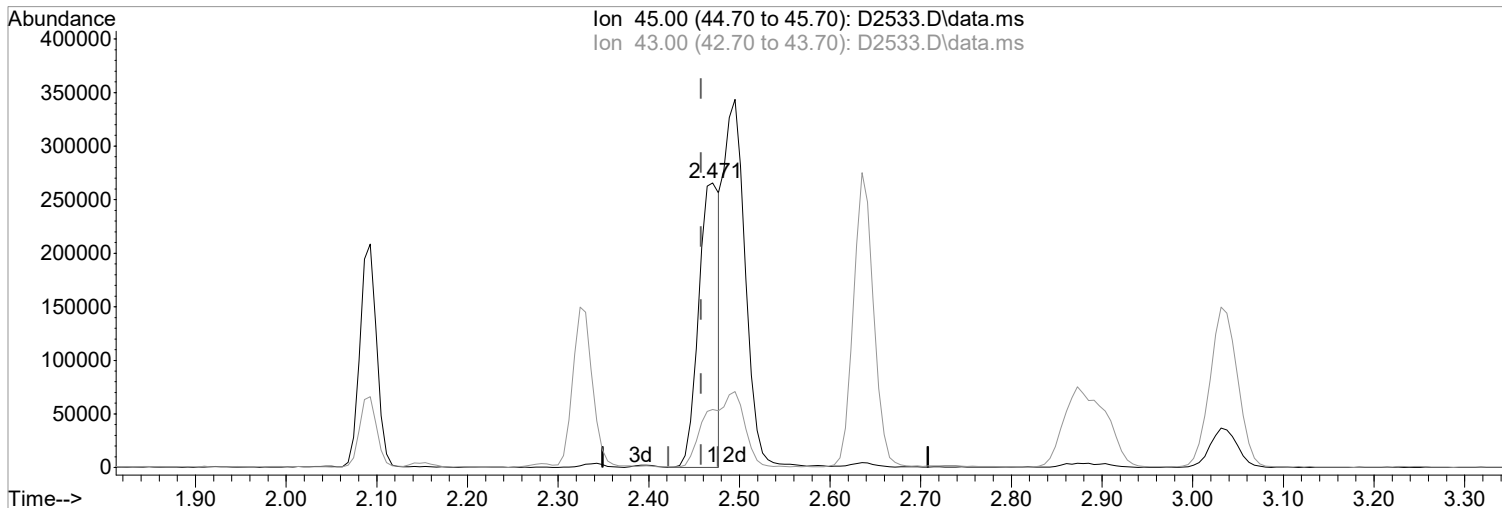
04/11/18

Ion	Exp%	Act%
45.00	100	100
43.00	21.30	20.64
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
Data File : D2533.D  
Acq On : 11 Apr 2018 3:27 pm  
Operator : D.LIPANI  
Sample : STD #8 - 150 PPB  
Misc : 8260C / 624.1 ICAL MS#10  
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: Apr 11 15:48:23 2018  
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
QLast Update : Wed Apr 11 15:48:15 2018  
Response via : Initial Calibration



TIC: D2533.D\data.ms

(16) 2-Propanol  
2.471min (+0.013) 1386.01 ug/L  
response 422791

Manual Integration:  
Before

Ion	Exp%	Act%
45.00	100	100
43.00	21.30	20.38
0.00	0.00	0.00
0.00	0.00	0.00

04/11/18

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2533.D  
 Acq On : 11 Apr 2018 3:27 pm  
 Operator : D.LIPANI  
 Sample : STD #8 - 150 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 15:49:22 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 15:48:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.385	168	227692	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.482	114	339126	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	301230	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	181875	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	5.238	113	402817	187.61	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery =	375.22%#		
46) surr1,1,2-dichloroetha...	5.781	65	527538	187.62	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery =	375.24%#		
64) SURR3,Toluene-d8	8.311	98	1591770	184.49	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery =	368.98%#		
69) SURR2,BFB	10.877	95	670919	199.00	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery =	398.00%#		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.148	85	519043	149.93	ug/L	98
3) Chloromethane	1.282	50	579664	142.98	ug/L	99
4) Vinyl Chloride	1.355	62	543280	145.38	ug/L	99
5) Bromomethane	1.574	94	286981	94.73	ug/L	96
6) Chloroethane	1.648	64	324425	149.82	ug/L	99
7) Freon 21	1.806	67	829151	152.40	ug/L	99
8) Trichlorofluoromethane	1.849	101	586329	151.42	ug/L	98
9) Diethyl Ether	2.093	59	344492	142.03	ug/L	98
10) Freon 123a	2.093	67	467037	146.22	ug/L	96
11) Freon 123	2.147	83	497015	149.77	ug/L	99
12) Acrolein	2.190	56	496057	738.19	ug/L	97
13) 1,1-Diclcethene	2.276	96	325140	142.70	ug/L	97
14) Freon 113	2.282	101	353566	147.81	ug/L	99
15) Acetone	2.324	43	223165	151.90	ug/L	96
16) 2-Propanol	2.495	45	995582m	3263.75	ug/L	
17) Iodomethane	2.410	142	504288	151.12	ug/L	98
18) Carbon Disulfide	2.471	76	1025777	153.24	ug/L	99
19) Acetonitrile	2.580	41	327882	651.69	ug/L	92
20) Allyl Chloride	2.611	76	197919	148.35	ug/L	95
21) Methyl Acetate	2.635	43	425181	146.11	ug/L	99
22) Methylene Chloride	2.727	84	363709	138.90	ug/L	97
23) TBA	2.873	59	1483445	3384.20	ug/L	100
24) Acrylonitrile	2.989	53	1035790	747.19	ug/L	96
25) Methyl-t-Butyl Ether	3.031	73	1250342	153.43	ug/L	98
26) trans-1,2-Dichloroethene	3.025	96	343255	140.16	ug/L	98
27) 1,1-Diclcethane	3.525	63	676322	145.39	ug/L	97
28) Vinyl Acetate	3.617	86	93570	160.38	ug/L #	92
29) DIPE	3.653	45	1373829	144.59	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.647	53	653322	150.74	ug/L	96
31) ETBE	4.184	59	1248733	148.53	ug/L	99
32) 2,2-Dichloropropane	4.354	77	591539	151.32	ug/L	98
33) cis-1,2-Dichloroethene	4.367	96	389014	145.02	ug/L	93
34) 2-Butanone	4.415	43	286292	151.08	ug/L	96
35) Propionitrile	4.501	54	426468	745.07	ug/L	97
36) Bromochloromethane	4.763	130	237538	150.99	ug/L	94
37) Methacrylonitrile	4.769	67	195243	130.62	ug/L	93
38) Tetrahydrofuran	4.854	42	173717	153.37	ug/L	93
39) Chloroform	4.946	83	621356	149.42	ug/L	97
40) 1,1,1-Trichloroethane	5.244	97	558795	149.30	ug/L	94

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2533.D  
 Acq On : 11 Apr 2018 3:27 pm  
 Operator : D.LIPANI  
 Sample : STD #8 - 150 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 15:49:22 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 15:48:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.330	41	415514	151.03	ug/L	97
44) Carbontetrachloride	5.525	117	484090	159.04	ug/L	98
45) 1,1-Dichloropropene	5.537	75	507444	145.11	ug/L	99
47) Benzene	5.860	78	1419008	149.18	ug/L	99
48) 1,2-Dichloroethane	5.897	62	561471	153.75	ug/L	97
49) Iso-Butyl Alcohol	5.897	43	678925	3431.30	ug/L	96
50) TAME	6.098	73	1162693	155.06	ug/L	98
51) n-Heptane	6.354	43	583597	154.71	ug/L	98
52) 1-Butanol	6.866	56	1000943	8734.84	ug/L	97
53) Trichloroethene	6.811	130	359571	145.43	ug/L	99
54) Methylcyclohexane	7.049	55	519286	152.04	ug/L	97
55) 1,2-Diclpropane	7.098	63	387086	148.89	ug/L	99
56) Dibromomethane	7.238	93	236281	150.04	ug/L	94
57) 1,4-Dioxane	7.305	88	148181	3150.62	ug/L	98
58) Methyl Methacrylate	7.323	69	332892	151.31	ug/L	96
59) Bromodichloromethane	7.463	83	489602	157.28	ug/L	99
60) 2-Nitropropane	7.750	41	347029	339.65	ug/L	98
61) 2-Chloroethylvinyl Ether	7.878	63	221012	155.27	ug/L	98
62) cis-1,3-Dichloropropene	8.012	75	642098	155.99	ug/L	97
63) 4-Methyl-2-pentanone	8.219	43	528976	154.53	ug/L	97
65) Toluene	8.384	91	1534138	145.84	ug/L	97
66) trans-1,3-Dichloropropene	8.652	75	612004	165.47	ug/L	99
67) Ethyl Methacrylate	8.793	69	588359	153.69	ug/L	95
68) 1,1,2-Trichloroethane	8.841	97	336776	154.23	ug/L	95
71) Tetrachloroethene	8.975	164	287472	150.75	ug/L	99
72) 2-Hexanone	9.134	43	414706	154.93	ug/L	96
73) 1,3-Dichloropropane	9.012	76	613421	147.50	ug/L	97
74) Dibromochloromethane	9.238	129	384549	166.22	ug/L	100
75) N-Butyl Acetate	9.286	43	910665	155.46	ug/L	98
76) 1,2-Dibromoethane	9.335	107	358873	148.75	ug/L	99
77) 3-Chlorobenzotrifluoride	9.847	180	560531	150.20	ug/L	99
78) Chlorobenzene	9.829	112	999171	149.51	ug/L	98
79) 4-Chlorobenzotrifluoride	9.902	180	498786	151.86	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.914	131	369222	157.75	ug/L	99
81) Ethylbenzene	9.951	106	539887	153.69	ug/L	99
82) (m+p)Xylene	10.061	106	1368308	310.44	ug/L	98
83) o-Xylene	10.420	106	669100	151.88	ug/L	98
84) Styrene	10.432	104	1176120	160.52	ug/L	99
85) Bromoform	10.585	173	286932	161.57	ug/L	98
86) 2-Chlorobenzotrifluoride	10.664	180	564377	157.77	ug/L	98
87) Isopropylbenzene	10.756	105	1771815	155.74	ug/L	99
88) Cyclohexanone	10.823	55	2724326	3248.08	ug/L	98
89) trans-1,4-Dichloro-2-B...	11.066	53	170951	159.62	ug/L	89
91) 1,1,2,2-Tetrachloroethane	11.018	83	565157	150.41	ug/L	98
92) Bromobenzene	10.999	156	450039	141.74	ug/L	96
93) 1,2,3-Trichloropropane	11.042	110	165835	138.61	ug/L	94
94) n-Propylbenzene	11.109	91	2148832	141.83	ug/L	99
95) 2-Chlorotoluene	11.176	91	1263067	139.62	ug/L	99
96) 3-Chlorotoluene	11.225	91	1271958	143.51	ug/L	99
97) 4-Chlorotoluene	11.268	91	1580921	146.10	ug/L	99
98) 1,3,5-Trimethylbenzene	11.262	105	1573517	148.62	ug/L	99
99) tert-Butylbenzene	11.536	119	1317232	146.37	ug/L	99
100) 1,2,4-Trimethylbenzene	11.572	105	1561679	150.22	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.633	214	502435	154.15	ug/L	96
102) sec-Butylbenzene	11.719	105	2005813	149.54	ug/L	99
103) p-Isopropyltoluene	11.841	119	1706259	153.31	ug/L	100



Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2533.D  
 Acq On : 11 Apr 2018 3:27 pm  
 Operator : D.LIPANI  
 Sample : STD #8 - 150 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 15:49:22 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 15:48:15 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	883351	148.59	ug/L	100
105) 1,4-Dclbenz	11.871	146	902049	144.72	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	464041	154.75	ug/L	99
107) 2,5-Dichlorobenzotrifl...	11.969	214	499726	150.35	ug/L	99
108) n-Butylbenzene	12.176	91	1682332	155.32	ug/L	97
109) 1,2-Dclbenz	12.176	146	883323	151.38	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.798	157	135805	166.32	ug/L	94
111) Trielution Dichlorotol...	12.920	125	2403061	458.34	ug/L	97
112) 1,3,5-Trichlorobenzene	12.975	180	676864	150.84	ug/L	100
113) Coelution Dichlorotoluene	13.249	125	1724931	304.83	ug/L	96
114) 1,2,4-Tcbenzene	13.456	180	666796	153.70	ug/L	100
115) Hexachlorobt	13.596	225	314480	156.74	ug/L	96
116) Naphthalen	13.645	128	1778487	159.07	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	643833	152.23	ug/L	96
118) 2,4,5-Trichlorotoluene	14.419	159	467619	169.05	ug/L	99
119) 2,3,6-Trichlorotoluene	14.505	159	419212	162.96	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed





Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2534.D  
 Acq On : 11 Apr 2018 4:00 pm  
 Operator : D.LIPANI  
 Sample : STD #9 - 200 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 11 16:17:46 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:17:33 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
<b>Internal Standards</b>						
1) Pentafluorobenzene	5.385	168	237614	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.488	114	363242	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.805	117	322328	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.853	152	188892	50.00	ug/L	0.00
<b>System Monitoring Compounds</b>						
43) surr4,Dibrflmethane	5.239	113	115457	50.12	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.24%	
46) surr1,1,2-dichloroetha...	5.781	65	148990	48.81	ug/L	0.00
Spiked Amount	50.000	Range 73 - 125	Recovery	=	97.62%	
64) SURR3,Toluene-d8	8.311	98	447374	48.44	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.88%	
69) SURR2,BFB	10.878	95	180546	49.80	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	99.60%	
<b>Target Compounds</b>						
						Qvalue
2) Dichlorodifluoromethane	1.148	85	725666	199.88	ug/L	96
3) Chloromethane	1.282	50	806371	190.05	ug/L	100
4) Vinyl Chloride	1.355	62	761109	193.60	ug/L	99
5) Bromomethane	1.575	94	464218	144.99	ug/L	95
6) Chloroethane	1.660	64	434039	190.25	ug/L	99
7) Freon 21	1.812	67	1160836	201.06	ug/L	99
8) Trichlorofluoromethane	1.855	101	823710	200.12	ug/L	97
9) Diethyl Ether	2.093	59	507504	199.71	ug/L	97
10) Freon 123a	2.093	67	686900	203.96	ug/L	96
11) Freon 123	2.148	83	709207	202.88	ug/L	99
12) Acrolein	2.190	56	679778	968.24	ug/L	96
13) 1,1-Diclcethene	2.282	96	462083	193.62	ug/L	98
14) Freon 113	2.282	101	496816	198.00	ug/L	92
15) Acetone	2.325	43	304179	195.14	ug/L	95
16) 2-Propanol	2.477	45	1311385	4007.40	ug/L	97
17) Iodomethane	2.410	142	745672	199.89	ug/L	100
18) Carbon Disulfide	2.471	76	1459746	206.81	ug/L	99
19) Acetonitrile	2.574	41	556103	1054.08	ug/L	97
20) Allyl Chloride	2.611	76	282761	201.43	ug/L	98
21) Methyl Acetate	2.635	43	594259	194.29	ug/L	98
22) Methylene Chloride	2.733	84	513631	187.61	ug/L	95
23) TBA	2.867	59	1926080	4036.00	ug/L	100
24) Acrylonitrile	2.989	53	1413208	975.93	ug/L	98
25) Methyl-t-Butyl Ether	3.032	73	1761117	204.36	ug/L	98
26) trans-1,2-Dichloroethene	3.026	96	492277	192.22	ug/L	97
27) 1,1-Diclcethane	3.525	63	961881	197.45	ug/L	99
28) Vinyl Acetate	3.617	86	131504	212.61	ug/L #	95
29) DIPE	3.654	45	1955059	197.35	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.647	53	914767	200.84	ug/L	98
31) ETBE	4.178	59	1768983	198.98	ug/L	100
32) 2,2-Dichloropropane	4.361	77	843479	200.58	ug/L	99
33) cis-1,2-Dichloroethene	4.367	96	543748	193.58	ug/L	97
34) 2-Butanone	4.409	43	395135	198.65	ug/L	94
35) Propionitrile	4.501	54	569960	954.26	ug/L	100
36) Bromochloromethane	4.763	130	330663	200.81	ug/L	98
37) Methacrylonitrile	4.769	67	268908	186.28	ug/L	95
38) Tetrahydrofuran	4.848	42	225263	189.48	ug/L	96
39) Chloroform	4.946	83	876350	200.94	ug/L	96
40) 1,1,1-Trichloroethane	5.245	97	776558	196.05	ug/L	95

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2534.D  
 Acq On : 11 Apr 2018 4:00 pm  
 Operator : D.LIPANI  
 Sample : STD #9 - 200 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 11 16:17:46 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:17:33 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Cyclohexane	5.336	41	587550	198.06	ug/L	100
44) Carbontetrachloride	5.525	117	680794	205.02	ug/L	98
45) 1,1-Dichloropropene	5.543	75	724641	193.19	ug/L	97
47) Benzene	5.860	78	1998356	196.46	ug/L	99
48) 1,2-Dichloroethane	5.903	62	790423	200.59	ug/L	96
49) Iso-Butyl Alcohol	5.897	43	879481	4053.15	ug/L	97
50) TAME	6.098	73	1643727	201.39	ug/L	99
51) n-Heptane	6.354	43	792943	195.66	ug/L	100
52) 1-Butanol	6.860	56	1314730	10068.61	ug/L	100
53) Trichloroethene	6.811	130	507115	191.42	ug/L	98
54) Methylcyclohexane	7.055	55	730268	198.84	ug/L	98
55) 1,2-Diclpropane	7.098	63	548739	197.82	ug/L	99
56) Dibromomethane	7.238	93	330211	195.37	ug/L	97
57) 1,4-Dioxane	7.305	88	193382	3815.27	ug/L	98
58) Methyl Methacrylate	7.324	69	453600	191.91	ug/L	96
59) Bromodichloromethane	7.464	83	692643	205.79	ug/L	99
60) 2-Nitropropane	7.750	41	472448	409.11	ug/L	100
61) 2-Chloroethylvinyl Ether	7.878	63	302925	199.97	ug/L	97
62) cis-1,3-Dichloropropene	8.012	75	903641	199.85	ug/L	99
63) 4-Methyl-2-pentanone	8.220	43	718198	195.58	ug/L	99
65) Toluene	8.384	91	2149909	191.07	ug/L	97
66) trans-1,3-Dichloropropene	8.653	75	860124	208.32	ug/L	100
67) Ethyl Methacrylate	8.793	69	821875	197.20	ug/L	95
68) 1,1,2-Trichloroethane	8.842	97	476299	204.16	ug/L	96
71) Tetrachloroethene	8.976	164	403501	198.69	ug/L	98
72) 2-Hexanone	9.134	43	549487	190.99	ug/L	98
73) 1,3-Dichloropropane	9.012	76	854186	192.12	ug/L	98
74) Dibromochloromethane	9.238	129	545070	218.29	ug/L	99
75) N-Butyl Acetate	9.287	43	1242709	197.00	ug/L	97
76) 1,2-Dibromoethane	9.335	107	502210	194.38	ug/L	97
77) 3-Chlorobenzotrifluoride	9.847	180	803135	201.91	ug/L	97
78) Chlorobenzene	9.829	112	1410698	197.55	ug/L	97
79) 4-Chlorobenzotrifluoride	9.902	180	730351	208.83	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.914	131	529448	209.73	ug/L	97
81) Ethylbenzene	9.951	106	760764	202.61	ug/L	98
82) (m+p)Xylene	10.061	106	1936064	410.72	ug/L	98
83) o-Xylene	10.420	106	949073	201.56	ug/L	100
84) Styrene	10.433	104	1651588	210.60	ug/L	98
85) Bromoform	10.585	173	403535	199.65	ug/L	96
86) 2-Chlorobenzotrifluoride	10.664	180	788810	206.71	ug/L	97
87) Isopropylbenzene	10.756	105	2453844	201.64	ug/L	99
88) Cyclohexanone	10.823	55	3469312	3837.90	ug/L	100
89) trans-1,4-Dichloro-2-B...	11.067	53	228214	199.14	ug/L	89
91) 1,1,2,2-Tetrachloroethane	11.018	83	759620	194.68	ug/L	98
92) Bromobenzene	11.000	156	615345	186.82	ug/L	96
93) 1,2,3-Trichloropropane	11.042	110	222747	178.33	ug/L	98
94) n-Propylbenzene	11.109	91	2936471	186.84	ug/L	98
95) 2-Chlorotoluene	11.176	91	1729235	184.14	ug/L	98
96) 3-Chlorotoluene	11.225	91	1794273	195.64	ug/L	99
97) 4-Chlorotoluene	11.268	91	2112935	187.26	ug/L	100
98) 1,3,5-Trimethylbenzene	11.262	105	2134459	193.87	ug/L	100
99) tert-Butylbenzene	11.536	119	1765923	188.74	ug/L	99
100) 1,2,4-Trimethylbenzene	11.573	105	2068652	191.40	ug/L	99
101) 3,4-Dichlorobenzotrifl...	11.640	214	675887	199.75	ug/L	97
102) sec-Butylbenzene	11.719	105	2648366	189.87	ug/L	99
103) p-Isopropyltoluene	11.841	119	2254906	194.67	ug/L	99

Data Path : I:\ACQUDATA\msvoa10\data\041118\  
 Data File : D2534.D  
 Acq On : 11 Apr 2018 4:00 pm  
 Operator : D.LIPANI  
 Sample : STD #9 - 200 PPB Inst : MSVOA10  
 Misc : 8260C / 624.1 ICAL MS#10  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 11 16:17:46 2018  
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W041118.M  
 Quant Title : MS#10 - 8260B WATERS 5.0mL Purge  
 QLast Update : Wed Apr 11 16:17:33 2018  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.798	146	1195371	193.81	ug/L	99
105) 1,4-Dclbenz	11.871	146	1218913	188.48	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.926	214	624304	200.49	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.969	214	675901	195.92	ug/L	99
108) n-Butylbenzene	12.176	91	2229699	197.73	ug/L	97
109) 1,2-Dclbenz	12.176	146	1183104	195.31	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.798	157	179615	212.13	ug/L	94
111) Trielution Dichlorotol...	12.920	125	3254101	595.04	ug/L	96
112) 1,3,5-Trichlorobenzene	12.975	180	917511	196.79	ug/L	99
113) Coelution Dichlorotoluene	13.249	125	2334673	396.04	ug/L	96
114) 1,2,4-Tcbenzene	13.456	180	883243	195.93	ug/L	99
115) Hexachlorobt	13.597	225	410740	195.24	ug/L	97
116) Naphthalen	13.645	128	2320845	198.33	ug/L	99
117) 1,2,3-Tclbenzene	13.834	180	847219	192.25	ug/L	97
118) 2,4,5-Trichlorotoluene	14.420	159	616230	210.11	ug/L	100
119) 2,3,6-Trichlorotoluene	14.505	159	562176	206.71	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
09	RC1800040-09	STD #1 - 0.5 PPB	I:\ACQUADATA\msvoa10\data\041118\D2526.D	04/11/2018 11:20
08	RC1800040-08	STD #2 - 1.0 PPB	I:\ACQUADATA\msvoa10\data\041118\D2527.D	04/11/2018 11:41
07	RC1800040-07	STD #3 - 2.0 PPB	I:\ACQUADATA\msvoa10\data\041118\D2528.D	04/11/2018 12:17
06	RC1800040-06	STD #4 - 5.0 PPB	I:\ACQUADATA\msvoa10\data\041118\D2529.D	04/11/2018 12:39
05	RC1800040-05	STD #5 - 20 PPB	I:\ACQUADATA\msvoa10\data\041118\D2530.D	04/11/2018 13:54
04	RC1800040-04	STD #6 - 50 PPB	I:\ACQUADATA\msvoa10\data\041118\D2531.D	04/11/2018 14:20
03	RC1800040-03	STD #7 - 100 PPB	I:\ACQUADATA\msvoa10\data\041118\D2532.D	04/11/2018 15:01
02	RC1800040-02	STD #8 - 150 PPB	I:\ACQUADATA\msvoa10\data\041118\D2533.D	04/11/2018 15:27
01	RC1800040-01	STD #9 - 200 PPB	I:\ACQUADATA\msvoa10\data\041118\D2534.D	04/11/2018 16:00

Analyte

1,1,1-Trichloroethane (TCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.9572	08	1.000	0.8654	07	2.000	0.8596	06	5.000	0.7922
05	20.000	0.8226	04	50.000	0.8418	03	100.000	0.8305	02	150.000	0.8181
01	200.000	0.817									

1,1,2,2-Tetrachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.063	08	1.000	1.094	07	2.000	0.9357	06	5.000	1.063
05	20.000	0.9821	04	50.000	1.049	03	100.000	1.037	02	150.000	1.036
01	200.000	1.005									

1,1,2-Trichloro-1,2,2-trifluoroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.6349	08	1.000	0.5303	07	2.000	0.5383	06	5.000	0.4665
05	20.000	0.5183	04	50.000	0.5254	03	100.000	0.5254	02	150.000	0.5176
01	200.000	0.5227									

1,1,2-Trichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.3104	08	1.000	0.3078	07	2.000	0.303	06	5.000	0.3355
05	20.000	0.3242	04	50.000	0.3233	03	100.000	0.3238	02	150.000	0.331
01	200.000	0.3278									

1,1-Dichloroethane (1,1-DCA)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.078	08	1.000	1.06	07	2.000	1.017	06	5.000	1.044
05	20.000	1.024	04	50.000	1.039	03	100.000	1.015	02	150.000	0.9901
01	200.000	1.012									

1,1-Dichloroethene (1,1-DCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.6019	08	1.000	0.5266	07	2.000	0.503	06	5.000	0.4876
05	20.000	0.4827	04	50.000	0.486	03	100.000	0.4947	02	150.000	0.476
01	200.000	0.4862									

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.146	08	1.000	1.14	07	2.000	1.09	06	5.000	1.216
05	20.000	1.21	04	50.000	1.181	03	100.000	1.196	02	150.000	1.18
01	200.000	1.121									

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.133	08	1.000	1.126	07	2.000	1.126	06	5.000	1.211
05	20.000	1.219	04	50.000	1.23	03	100.000	1.248	02	150.000	1.222
01	200.000	1.169									

1,2,4-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	2.768	08	1.000	2.729	07	2.000	2.902	06	5.000	2.948
05	20.000	2.866	04	50.000	2.911	03	100.000	2.971	02	150.000	2.862
01	200.000	2.738									

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	1.000	0.2085	07	2.000	0.248	06	5.000	0.2399	05	20.000	0.2288
04	50.000	0.2543	03	100.000	0.2469	02	150.000	0.2489	01	200.000	0.2377

1,2-Dibromoethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.3985	08	1.000	0.3954	07	2.000	0.4146	06	5.000	0.4117
05	20.000	0.4001	04	50.000	0.4004	03	100.000	0.395	02	150.000	0.3971
01	200.000	0.3895									

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.493	08	1.000	1.581	07	2.000	1.634	06	5.000	1.611
05	20.000	1.586	04	50.000	1.62	03	100.000	1.658	02	150.000	1.619
01	200.000	1.566									

1,2-Dichloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.5246	08	1.000	0.5013	07	2.000	0.5434	06	5.000	0.5686
05	20.000	0.567	04	50.000	0.5564	03	100.000	0.5539	02	150.000	0.5519
01	200.000	0.544									

1,2-Dichloropropane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.3354	08	1.000	0.4207	07	2.000	0.3554	06	5.000	0.3869
05	20.000	0.3948	04	50.000	0.3821	03	100.000	0.3818	02	150.000	0.3805
01	200.000	0.3777									

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

1,3,5-Trimethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	3.027	08	1.000	2.851	07	2.000	2.917	06	5.000	2.872
05	20.000	2.886	04	50.000	2.94	03	100.000	2.991	02	150.000	2.884
01	200.000	2.825									

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.708	08	1.000	1.611	07	2.000	1.579	06	5.000	1.629
05	20.000	1.621	04	50.000	1.633	03	100.000	1.657	02	150.000	1.619
01	200.000	1.582									

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.831	08	1.000	1.772	07	2.000	1.796	06	5.000	1.691
05	20.000	1.647	04	50.000	1.65	03	100.000	1.696	02	150.000	1.653
01	200.000	1.613									

1,4-Dioxane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	10.000	0.008307	08	20.000	0.007557	07	40.000	0.006171	06	100.000	0.006746
05	400.000	0.006392	04	1000.000	0.006911	03	2000.000	0.006768	02	3000.000	0.007282
01	4000.000	0.006655									

2-Butanone (MEK)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	5.000	0.4554	05	20.000	0.4083	04	50.000	0.421	03	100.000	0.4171
02	150.000	0.4191	01	200.000	0.4157						

2-Hexanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	5.000	0.4693	05	20.000	0.4328	04	50.000	0.4523	03	100.000	0.4257
02	150.000	0.4589	01	200.000	0.4262						

4-Bromofluorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	10.000	0.512	05	20.000	0.4943	04	50.000	0.4975	03	100.000	0.497
02	200.000	0.4946									

4-Isopropyltoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	3.085	08	1.000	2.805	07	2.000	3.046	06	5.000	2.985
05	20.000	3.076	04	50.000	3.198	03	100.000	3.244	02	150.000	3.127
01	200.000	2.984									

4-Methyl-2-pentanone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
07	2.000	0.492	06	5.000	0.5184	05	20.000	0.4966	04	50.000	0.5132
03	100.000	0.4898	02	150.000	0.5199	01	200.000	0.4943			



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

Acetone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	5.000	0.3514	05	20.000	0.3318	04	50.000	0.3453	03	100.000	0.3296
02	150.000	0.3267	01	200.000	0.32						

Benzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.422	08	1.000	1.352	07	2.000	1.364	06	5.000	1.41
05	20.000	1.439	04	50.000	1.402	03	100.000	1.4	02	150.000	1.395
01	200.000	1.375									

Bromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.325	08	1.000	0.3441	07	2.000	0.3459	06	5.000	0.3795
05	20.000	0.3379	04	50.000	0.351	03	100.000	0.349	02	150.000	0.3477
01	200.000	0.3479									

Bromodichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.4438	08	1.000	0.4594	07	2.000	0.4438	06	5.000	0.4716
05	20.000	0.466	04	50.000	0.4745	03	100.000	0.4784	02	150.000	0.4812
01	200.000	0.4767									

Bromoform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.2713	08	1.000	0.233	07	2.000	0.248	06	5.000	0.2776
05	20.000	0.2645	04	50.000	0.2881	03	100.000	0.3005	02	150.000	0.3175
01	200.000	0.313									

Bromomethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.098	08	1.000	0.8234	07	2.000	0.7838	06	5.000	0.6809
05	20.000	0.5668	04	50.000	0.52	03	100.000	0.497	02	150.000	0.4201

Carbon Disulfide

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.592	08	1.000	1.383	07	2.000	1.486	06	5.000	1.408
05	20.000	1.532	04	50.000	1.5	03	100.000	1.544	02	150.000	1.502
01	200.000	1.536									

Carbon Tetrachloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.4872	08	1.000	0.433	07	2.000	0.4487	06	5.000	0.4576
05	20.000	0.4568	04	50.000	0.4727	03	100.000	0.4693	02	150.000	0.4758
01	200.000	0.4686									

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.131	08	1.000	1.085	07	2.000	1.095	06	5.000	1.108

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

Chlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	1.106	04	50.000	1.113	03	100.000	1.097	02	150.000	1.106
01	200.000	1.094									

Chloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.5207	08	1.000	0.4725	07	2.000	0.4859	06	5.000	0.4738
05	20.000	0.4943	04	50.000	0.4857	03	100.000	0.4801	02	150.000	0.4749
01	200.000	0.4567									

Chloroform

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.8756	08	1.000	0.8597	07	2.000	0.9927	06	5.000	0.95
05	20.000	0.9371	04	50.000	0.9395	03	100.000	0.9327	02	150.000	0.9096
01	200.000	0.922									

Chloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.09	08	1.000	0.8645	07	2.000	0.8853	06	5.000	0.8711
05	20.000	0.9051	04	50.000	0.8649	03	100.000	0.8717	02	150.000	0.8486
01	200.000	0.8484									

Cyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.3811	08	1.000	0.4411	07	2.000	0.4088	06	5.000	0.4215
05	20.000	0.4228	04	50.000	0.4103	03	100.000	0.3971	02	150.000	0.4084
01	200.000	0.4044									

Dibromochloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.3064	08	1.000	0.3635	07	2.000	0.3604	06	5.000	0.3981
05	20.000	0.3953	04	50.000	0.4133	03	100.000	0.4152	02	150.000	0.4255
01	200.000	0.4228									

Dibromofluoromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	10.000	0.3501	05	20.000	0.3026	04	50.000	0.3177	03	100.000	0.318
02	200.000	0.297									

Dichlorodifluoromethane (CFC 12)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.9532	08	1.000	0.6262	07	2.000	0.7731	06	5.000	0.6983
05	20.000	0.8157	04	50.000	0.7709	03	100.000	0.7628	02	150.000	0.7599
01	200.000	0.7635									

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.6817	08	1.000	0.6257	07	2.000	0.6194	06	5.000	0.5709

ALS Group USA, Corp.  
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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

Dichloromethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	0.5494	04	50.000	0.5391	03	100.000	0.5484	02	150.000	0.5325
01	200.000	0.5404									

Ethylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.5784	08	1.000	0.5003	07	2.000	0.6239	06	5.000	0.5621
05	20.000	0.5779	04	50.000	0.5977	03	100.000	0.5938	02	150.000	0.5974
01	200.000	0.5901									

Isopropylbenzene (Cumene)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.84	08	1.000	1.898	07	2.000	1.894	06	5.000	1.733
05	20.000	1.825	04	50.000	1.927	03	100.000	1.942	02	150.000	1.961
01	200.000	1.903									

Methyl Acetate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	1.000	0.6888	07	2.000	0.7067	06	5.000	0.6474	05	20.000	0.6246
04	50.000	0.6548	03	100.000	0.6334	02	150.000	0.6225	01	200.000	0.6252

Methyl tert-Butyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.721	08	1.000	1.843	07	2.000	1.843	06	5.000	1.903
05	20.000	1.846	04	50.000	1.869	03	100.000	1.853	02	150.000	1.83
01	200.000	1.853									

Methylcyclohexane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.5257	08	1.000	0.52	07	2.000	0.5225	06	5.000	0.4637
05	20.000	0.4992	04	50.000	0.5131	03	100.000	0.4989	02	150.000	0.5104
01	200.000	0.5026									

Styrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.139	08	1.000	1.138	07	2.000	1.128	06	5.000	1.177
05	20.000	1.229	04	50.000	1.255	03	100.000	1.273	02	150.000	1.301
01	200.000	1.281									

Tetrachloroethene (PCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.3023	08	1.000	0.3145	07	2.000	0.3127	06	5.000	0.3023
05	20.000	0.3083	04	50.000	0.3217	03	100.000	0.3226	02	150.000	0.3181
01	200.000	0.313									

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	1.833	08	1.000	1.564	07	2.000	1.491	06	5.000	1.501

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QA/QC Report

Client: Day Environmental, Incorporated  
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Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

Toluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	1.49	04	50.000	1.511	03	100.000	1.508	02	150.000	1.508
01	200.000	1.48									

Toluene-d8

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06	10.000	1.424	05	20.000	1.242	04	50.000	1.28	03	100.000	1.237
02	200.000	1.173									

Trichloroethene (TCE)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.4018	08	1.000	0.3696	07	2.000	0.3673	06	5.000	0.3595
05	20.000	0.3632	04	50.000	0.3598	03	100.000	0.3527	02	150.000	0.3534
01	200.000	0.349									

Trichlorofluoromethane (CFC 11)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.8449	08	1.000	0.9131	07	2.000	0.9656	06	5.000	0.8496
05	20.000	0.8875	04	50.000	0.8956	03	100.000	0.8676	02	150.000	0.8584
01	200.000	0.8666									

Vinyl Chloride

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.9697	08	1.000	0.8823	07	2.000	0.8116	06	5.000	0.7912
05	20.000	0.8355	04	50.000	0.8189	03	100.000	0.8168	02	150.000	0.7953
01	200.000	0.8008									

cis-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.6264	08	1.000	0.6385	07	2.000	0.5946	06	5.000	0.5846
05	20.000	0.587	04	50.000	0.587	03	100.000	0.5819	02	150.000	0.5695
01	200.000	0.5721									

cis-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.6513	08	1.000	0.6432	07	2.000	0.5338	06	5.000	0.6393
05	20.000	0.6224	04	50.000	0.6205	03	100.000	0.6265	02	150.000	0.6311
01	200.000	0.6219									

m,p-Xylenes

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	1.000	0.6882	08	2.000	0.7134	07	4.000	0.7082	06	10.000	0.729
05	40.000	0.7122	04	100.000	0.7526	03	200.000	0.7494	02	300.000	0.7571
01	400.000	0.7508									

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	2.993	08	1.000	2.69	07	2.000	3.022	06	5.000	2.885

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QA/QC Report

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

Initial Calibration Summary  
Volatile Organic Compounds by GC/MS

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte

n-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
05	20.000	2.966	04	50.000	3.059	03	100.000	3.139	02	150.000	3.083
01	200.000	2.951									

n-Propylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	4.466	08	1.000	4.199	07	2.000	4.14	06	5.000	4.191
05	20.000	4.076	04	50.000	4.205	03	100.000	4.169	02	150.000	3.938
01	200.000	3.886									

o-Xylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.7395	08	1.000	0.6872	07	2.000	0.7454	06	5.000	0.741
05	20.000	0.7123	04	50.000	0.73	03	100.000	0.7267	02	150.000	0.7404
01	200.000	0.7361									

sec-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	3.726	08	1.000	3.471	07	2.000	3.837	06	5.000	3.691
05	20.000	3.64	04	50.000	3.754	03	100.000	3.829	02	150.000	3.676
01	200.000	3.505									

tert-Butylbenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	2.551	08	1.000	2.336	07	2.000	2.586	06	5.000	2.538
05	20.000	2.446	04	50.000	2.493	03	100.000	2.527	02	150.000	2.414
01	200.000	2.337									

trans-1,2-Dichloroethene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.6014	08	1.000	0.5515	07	2.000	0.5978	06	5.000	0.5269
05	20.000	0.5234	04	50.000	0.526	03	100.000	0.5221	02	150.000	0.5025
01	200.000	0.5179									

trans-1,3-Dichloropropene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
09	0.500	0.5326	08	1.000	0.5847	07	2.000	0.5463	06	5.000	0.5776
05	20.000	0.5729	04	50.000	0.5778	03	100.000	0.5843	02	150.000	0.6016
01	200.000	0.592									

Client: Day Environmental, Incorporated  
Project: Bulls Head North, Rochester, NY

Service Request: R1803412  
Calibration Date: 4/11/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

Calibration ID: RC1800040  
Instrument ID: R-MS-10

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,1,1-Trichloroethane (TCA)	TRG	Average RF	% RSD	5.7	20	0.8449	0.100
1,1,2,2-Tetrachloroethane	TRG	Average RF	% RSD	4.7	20	1.029	0.300
1,1,2-Trichloro-1,2,2-trifluoroethane	TRG	Average RF	% RSD	8.3	20	0.531	0.100
1,1,2-Trichloroethane	TRG	Average RF	% RSD	3.5	20	0.3208	0.100
1,1-Dichloroethane (1,1-DCA)	TRG	Average RF	% RSD	2.6	20	1.031	0.200
1,1-Dichloroethene (1,1-DCE)	TRG	Average RF	% RSD	7.8	20	0.505	0.100
1,2,3-Trichlorobenzene	TRG	Average RF	% RSD	3.7	20	1.165	
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	4.1	20	1.187	0.200
1,2,4-Trimethylbenzene	TRG	Average RF	% RSD	3.2	20	2.855	
1,2-Dibromo-3-chloropropane (DBCP)	TRG	Average RF	% RSD	6.1	20	0.2391	0.050
1,2-Dibromoethane	TRG	Average RF	% RSD	2.0	20	0.4003	0.100
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.0	20	1.596	0.400
1,2-Dichloroethane	TRG	Average RF	% RSD	3.9	20	0.5457	0.100
1,2-Dichloropropane	TRG	Average RF	% RSD	6.3	20	0.3795	0.100
1,3,5-Trimethylbenzene	TRG	Average RF	% RSD	2.3	20	2.91	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	2.4	20	1.627	0.600
1,4-Dichlorobenzene	TRG	Average RF	% RSD	4.5	20	1.705	0.500
1,4-Dioxane	TRG	Average RF	% RSD	9.3	20	0.006976	
2-Butanone (MEK)	TRG	Average RF	% RSD	3.9	20	0.4228	0.05
2-Hexanone	TRG	Average RF	% RSD	4.2	20	0.4442	0.05
4-Bromofluorobenzene	SURR	Average RF	% RSD	1.5	20	0.4991	
4-Isopropyltoluene	TRG	Average RF	% RSD	4.2	20	3.061	
4-Methyl-2-pentanone	TRG	Average RF	% RSD	2.6	20	0.5034	0.05
Acetone	TRG	Average RF	% RSD	3.6	20	0.3341	0.05
Benzene	TRG	Average RF	% RSD	2.0	20	1.395	0.500
Bromochloromethane	TRG	Average RF	% RSD	4.1	20	0.3476	
Bromodichloromethane	TRG	Average RF	% RSD	3.1	20	0.4662	0.200
Bromoform	TRG	Average RF	% RSD	10.2	20	0.2793	0.100
Bromomethane	TRG	Quadratic	COD	0.9985	0.99	0.6737	0.100
Carbon Disulfide	TRG	Average RF	% RSD	4.4	20	1.498	0.100
Carbon Tetrachloride	TRG	Average RF	% RSD	3.5	20	0.4633	0.05
Chlorobenzene	TRG	Average RF	% RSD	1.2	20	1.104	0.500
Chloroethane	TRG	Average RF	% RSD	3.7	20	0.4827	0.100
Chloroform	TRG	Average RF	% RSD	4.3	20	0.9243	0.200

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1803412  
**Calibration Date:** 4/11/2018

**Initial Calibration Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800040  
**Instrument ID:** R-MS-10

**Signal ID:** 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Chloromethane	TRG	Average RF	% RSD	8.4	20	0.8944	0.100
Cyclohexane	TRG	Average RF	% RSD	4.1	20	0.4106	0.100
Dibromochloromethane	TRG	Average RF	% RSD	10.0	20	0.3889	0.100
Dibromofluoromethane	SURR	Average RF	% RSD	6.5	20	0.3171	
Dichlorodifluoromethane (CFC 12)	TRG	Average RF	% RSD	11.4	20	0.7693	0.100
Dichloromethane	TRG	Average RF	% RSD	9.0	20	0.5786	0.100
Ethylbenzene	TRG	Average RF	% RSD	5.9	20	0.5802	0.100
Isopropylbenzene (Cumene)	TRG	Average RF	% RSD	3.7	20	1.88	0.100
Methyl Acetate	TRG	Average RF	% RSD	4.9	20	0.6504	0.100
Methyl tert-Butyl Ether	TRG	Average RF	% RSD	2.7	20	1.84	0.100
Methylcyclohexane	TRG	Average RF	% RSD	3.7	20	0.5063	0.100
Styrene	TRG	Average RF	% RSD	5.7	20	1.213	0.300
Tetrachloroethene (PCE)	TRG	Average RF	% RSD	2.4	20	0.3128	0.200
Toluene	TRG	Average RF	% RSD	7.2	20	1.543	0.400
Toluene-d8	SURR	Average RF	% RSD	7.4	20	1.271	
Trichloroethene (TCE)	TRG	Average RF	% RSD	4.3	20	0.3641	0.200
Trichlorofluoromethane (CFC 11)	TRG	Average RF	% RSD	4.3	20	0.8832	0.100
Vinyl Chloride	TRG	Average RF	% RSD	6.8	20	0.8358	0.100
cis-1,2-Dichloroethene	TRG	Average RF	% RSD	4.0	20	0.5935	0.100
cis-1,3-Dichloropropene	TRG	Average RF	% RSD	5.5	20	0.6211	0.200
m,p-Xylenes	TRG	Average RF	% RSD	3.4	20	0.729	0.100
n-Butylbenzene	TRG	Average RF	% RSD	4.4	20	2.977	
n-Propylbenzene	TRG	Average RF	% RSD	4.1	20	4.141	
o-Xylene	TRG	Average RF	% RSD	2.5	20	0.7287	0.300
sec-Butylbenzene	TRG	Average RF	% RSD	3.5	20	3.681	
tert-Butylbenzene	TRG	Average RF	% RSD	3.7	20	2.47	
trans-1,2-Dichloroethene	TRG	Average RF	% RSD	6.6	20	0.5411	0.100
trans-1,3-Dichloropropene	TRG	Average RF	% RSD	3.8	20	0.5744	0.100

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1803412  
**Calibration Date:** 4/11/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800040  
**Instrument ID:** R-MS-10

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1800040-10	ICV	I:\ACQUADATA\msvoa10\data\041118\D2538.D	04/11/2018 17:32

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.8	8.449E-1	8.084E-1	-4.329	±30	Average RF
1,1,2,2-Tetrachloroethane	50.0	51.9	1.029E0	1.069E0	3.85	±30	Average RF
1,1,2-Trichloroethane	50.0	51.3	3.208E-1	3.289E-1	2.53	±30	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.4	5.31E-1	4.928E-1	-7.204	±30	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	48.8	1.031E0	1.006E0	-2.376	±30	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	47.0	5.05E-1	4.749E-1	-5.962	±30	Average RF
1,2,3-Trichlorobenzene	50.0	50.5	1.165E0	1.175E0	0.932	±30	Average RF
1,2,4-Trichlorobenzene	50.0	52.3	1.187E0	1.241E0	4.58	±30	Average RF
1,2,4-Trimethylbenzene	50.0	51.8	2.855E0	2.957E0	3.59	±30	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	51.4	2.391E-1	2.458E-1	2.79	±30	Average RF
1,2-Dibromoethane	50.0	48.2	4.003E-1	3.861E-1	-3.540	±30	Average RF
1,2-Dichlorobenzene	50.0	49.9	1.596E0	1.594E0	-0.174	±30	Average RF
1,2-Dichloroethane	50.0	50.4	5.457E-1	5.502E-1	0.828	±30	Average RF
1,2-Dichloropropane	50.0	50.6	3.795E-1	3.837E-1	1.13	±30	Average RF
1,3,5-Trimethylbenzene	50.0	50.6	2.91E0	2.945E0	1.21	±30	Average RF
1,3-Dichlorobenzene	50.0	49.6	1.627E0	1.614E0	-0.799	±30	Average RF
1,4-Dichlorobenzene	50.0	48.0	1.705E0	1.636E0	-4.067	±30	Average RF
1,4-Dioxane	1000	995	6.976E-3	6.943E-3	-0.483	±30	Average RF
2-Butanone (MEK)	50.0	49.0	4.228E-1	4.145E-1	-1.954	±30	Average RF
2-Hexanone	50.0	49.6	4.442E-1	4.405E-1	-0.825	±30	Average RF
4-Isopropyltoluene	50.0	51.9	3.061E0	3.175E0	3.73	±30	Average RF
4-Methyl-2-pentanone	50.0	51.1	5.034E-1	5.146E-1	2.22	±30	Average RF
Acetone	50.0	47.9	3.341E-1	3.202E-1	-4.181	±30	Average RF
Benzene	50.0	50.5	1.395E0	1.41E0	1.05	±30	Average RF
Bromochloromethane	50.0	48.6	3.476E-1	3.381E-1	-2.728	±30	Average RF
Bromodichloromethane	50.0	50.1	4.662E-1	4.67E-1	0.188	±30	Average RF
Bromoform	50.0	51.7	2.793E-1	2.89E-1	3.49	±30	Average RF
Bromomethane	50.0	42.3	6.737E-1	4.769E-1	-15.358	±30	Quadratic
Carbon Disulfide	50.0	50.2	1.498E0	1.503E0	0.325	±30	Average RF
Carbon Tetrachloride	50.0	50.4	4.633E-1	4.669E-1	0.786	±30	Average RF
Chlorobenzene	50.0	48.4	1.104E0	1.068E0	-3.259	±30	Average RF
Chloroethane	50.0	40.1	4.827E-1	3.869E-1	-19.862	±30	Average RF
Chloroform	50.0	49.0	9.243E-1	9.051E-1	-2.081	±30	Average RF
Chloromethane	50.0	45.0	8.944E-1	8.055E-1	-9.943	±30	Average RF
Cyclohexane	50.0	47.7	4.106E-1	3.915E-1	-4.652	±30	Average RF



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dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY

**Service Request:** R1803412  
**Calibration Date:** 4/11/2018

**Initial Calibration Verification Summary**  
**Volatile Organic Compounds by GC/MS**

**Calibration ID:** RC1800040  
**Instrument ID:** R-MS-10

**Signal ID:** 1

#	Lab Code	Sample Name	File Location	Acquisition Date
10	RC1800040-10	ICV	I:\ACQDATA\msvoa10\data\041118\D2538.D	04/11/2018 17:32

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Dibromochloromethane	50.0	51.6	3.889E-1	4.011E-1	3.14	±30	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	52.5	7.693E-1	8.072E-1	4.92	±30	Average RF
Dichloromethane	50.0	45.5	5.786E-1	5.261E-1	-9.071	±30	Average RF
Ethylbenzene	50.0	50.6	5.802E-1	5.877E-1	1.30	±30	Average RF
Isopropylbenzene (Cumene)	50.0	49.2	1.88E0	1.85E0	-1.594	±30	Average RF
Methyl Acetate	50.0	48.9	6.504E-1	6.357E-1	-2.258	±30	Average RF
Methyl tert-Butyl Ether	50.0	47.9	1.84E0	1.764E0	-4.139	±30	Average RF
Methylcyclohexane	50.0	48.6	5.063E-1	4.919E-1	-2.838	±30	Average RF
Styrene	50.0	49.7	1.213E0	1.207E0	-0.505	±30	Average RF
Tetrachloroethene (PCE)	50.0	50.3	3.128E-1	3.149E-1	0.665	±30	Average RF
Toluene	50.0	49.2	1.543E0	1.517E0	-1.700	±30	Average RF
Trichloroethene (TCE)	50.0	50.0	3.641E-1	3.641E-1	0.003	±30	Average RF
Trichlorofluoromethane (CFC 11)	50.0	51.0	8.832E-1	9.001E-1	1.91	±30	Average RF
Vinyl Chloride	50.0	46.4	8.358E-1	7.749E-1	-7.279	±30	Average RF
cis-1,2-Dichloroethene	50.0	47.3	5.935E-1	5.612E-1	-5.441	±30	Average RF
cis-1,3-Dichloropropene	50.0	50.0	6.211E-1	6.216E-1	0.076	±30	Average RF
m,p-Xylenes	100	99.3	7.29E-1	7.24E-1	-0.689	±30	Average RF
n-Butylbenzene	50.0	52.2	2.977E0	3.108E0	4.40	±30	Average RF
n-Propylbenzene	50.0	50.6	4.141E0	4.192E0	1.23	±30	Average RF
o-Xylene	50.0	48.9	7.287E-1	7.129E-1	-2.173	±30	Average RF
sec-Butylbenzene	50.0	51.4	3.681E0	3.787E0	2.89	±30	Average RF
tert-Butylbenzene	50.0	50.8	2.47E0	2.509E0	1.59	±30	Average RF
trans-1,2-Dichloroethene	50.0	48.2	5.411E-1	5.211E-1	-3.690	±30	Average RF
trans-1,3-Dichloropropene	50.0	50.4	5.744E-1	5.789E-1	0.779	±30	Average RF
4-Bromofluorobenzene	50.0	48.5	4.991E-1	4.844E-1	-2.950	±30	Average RF
Dibromofluoromethane	50.0	49.8	3.171E-1	3.159E-1	-0.377	±30	Average RF
Toluene-d8	50.0	49.7	1.271E0	1.263E0	-0.679	±30	Average RF

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412  
**Date Analyzed:** 04/20/18 09:51

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\msvoa10\data\042018\D2693.D\  
**Signal ID:** 1

**Calibration Date:** 4/11/2018  
**Calibration ID:** RC1800040  
**Analysis Lot:** 588018  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	46.5	0.8449	0.7854	-7.0	NA	±20	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.7	1.0295	0.9402	-8.7	NA	±20	Average RF
1,1,2-Trichloroethane	50.0	48.1	0.3208	0.3086	-3.8	NA	±20	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.1	0.531	0.511	-3.8	NA	±20	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	49.6	1.031	1.0218	-0.9	NA	±20	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	45.7	0.505	0.4612	-8.7	NA	±20	Average RF
1,2,3-Trichlorobenzene	50.0	47.1	1.1645	1.0957	-5.9	NA	±20	Average RF
1,2,4-Trichlorobenzene	50.0	47.9	1.1872	1.1378	-4.2	NA	±20	Average RF
1,2,4-Trimethylbenzene	50.0	47.3	2.855	2.6982	-5.5	NA	±20	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	43.2	0.2391	0.2064	-13.7	NA	±20	Average RF
1,2-Dibromoethane	50.0	46.1	0.4003	0.3686	-7.9	NA	±20	Average RF
1,2-Dichlorobenzene	50.0	46.5	1.5964	1.4838	-7.1	NA	±20	Average RF
1,2-Dichloroethane	50.0	50.5	0.5457	0.5509	1.0	NA	±20	Average RF
1,2-Dichloropropane	50.0	49.7	0.3795	0.3769	-0.7	NA	±20	Average RF
1,3,5-Trimethylbenzene	50.0	46.0	2.9102	2.6791	-7.9	NA	±20	Average RF
1,3-Dichlorobenzene	50.0	46.8	1.6266	1.5228	-6.4	NA	±20	Average RF
1,4-Dichlorobenzene	50.0	45.5	1.7053	1.5514	-9.0	NA	±20	Average RF
1,4-Dioxane	1000	858	0.007	0.006	-14.2	NA	±20	Average RF
2-Butanone (MEK)	50.0	49.5	0.4228	0.4187	-1.0	NA	±20	Average RF
2-Hexanone	50.0	49.8	0.4442	0.4427	-0.3	NA	±20	Average RF
4-Isopropyltoluene	50.0	47.5	3.0612	2.9062	-5.1	NA	±20	Average RF
4-Methyl-2-pentanone	50.0	49.9	0.5034	0.502	-0.3	NA	±20	Average RF
Acetone	50.0	45.9	0.3341	0.307	-8.1	NA	±20	Average RF
Benzene	50.0	49.1	1.3953	1.3691	-1.9	NA	±20	Average RF
Bromochloromethane	50.0	47.0	0.3476	0.3267	-6.0	NA	±20	Average RF
Bromodichloromethane	50.0	48.1	0.4662	0.4486	-3.8	NA	±20	Average RF
Bromoform	50.0	45.8	0.2793	0.2559	-8.4	NA	±20	Average RF
Bromomethane	50.0	43.7	0.6737	0.491	NA	-12.5	±20	Quadratic
Carbon Disulfide	50.0	47.3	1.498	1.4165	-5.4	NA	±20	Average RF
Carbon Tetrachloride	50.0	46.7	0.4633	0.4325	-6.6	NA	±20	Average RF
Chlorobenzene	50.0	47.4	1.1039	1.0471	-5.2	NA	±20	Average RF
Chloroethane	50.0	48.0	0.4827	0.4637	-3.9	NA	±20	Average RF
Chloroform	50.0	49.0	0.9243	0.9051	-2.1	NA	±20	Average RF
Chloromethane	50.0	47.7	0.8944	0.8539	-4.5	NA	±20	Average RF
Cyclohexane	50.0	53.5	0.4106	0.4397	7.1	NA	±20	Average RF
Dibromochloromethane	50.0	48.4	0.3889	0.3764	-3.2	NA	±20	Average RF
Dichlorodifluoromethane (CFC 12)	50.0	46.4	0.7693	0.7144	-7.1	NA	±20	Average RF
Dichloromethane	50.0	45.8	0.5786	0.53	-8.4	NA	±20	Average RF
Ethylbenzene	50.0	48.4	0.5802	0.561	-3.3	NA	±20	Average RF
Isopropylbenzene (Cumene)	50.0	48.3	1.8803	1.8162	-3.4	NA	±20	Average RF
Methyl Acetate	50.0	50.4	0.6504	0.6557	0.8	NA	±20	Average RF
Methyl tert-Butyl Ether	50.0	48.5	1.8402	1.7834	-3.1	NA	±20	Average RF

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803412  
**Date Analyzed:** 04/20/18 09:51

**Continuing Calibration Verification (CCV) Summary**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**File ID:** I:\ACQUADATA\msvoa10\data\042018\D2693.D\  
**Signal ID:** 1

**Calibration Date:** 4/11/2018  
**Calibration ID:** RC1800040  
**Analysis Lot:** 588018  
**Units:** ug/L

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Methylcyclohexane	50.0	51.5	0.5063	0.5217	3.0	NA	±20	Average RF
Styrene	50.0	47.9	1.2135	1.1628	-4.2	NA	±20	Average RF
Tetrachloroethene (PCE)	50.0	49.4	0.3128	0.3092	-1.1	NA	±20	Average RF
Toluene	50.0	46.5	1.543	1.4363	-6.9	NA	±20	Average RF
Trichloroethene (TCE)	50.0	45.8	0.3641	0.3334	-8.4	NA	±20	Average RF
Trichlorofluoromethane (CFC 11)	50.0	46.0	0.8832	0.8119	-8.1	NA	±20	Average RF
Vinyl Chloride	50.0	45.9	0.8358	0.7678	-8.1	NA	±20	Average RF
cis-1,2-Dichloroethene	50.0	46.6	0.5935	0.5536	-6.7	NA	±20	Average RF
cis-1,3-Dichloropropene	50.0	47.1	0.6211	0.5846	-5.9	NA	±20	Average RF
m,p-Xylenes	100	95.5	0.729	0.6964	-4.5	NA	±20	Average RF
n-Butylbenzene	50.0	47.7	2.9766	2.8415	-4.5	NA	±20	Average RF
n-Propylbenzene	50.0	47.3	4.1411	3.9177	-5.4	NA	±20	Average RF
o-Xylene	50.0	46.6	0.7287	0.679	-6.8	NA	±20	Average RF
sec-Butylbenzene	50.0	46.9	3.6809	3.4507	-6.3	NA	±20	Average RF
tert-Butylbenzene	50.0	46.3	2.4698	2.2865	-7.4	NA	±20	Average RF
trans-1,2-Dichloroethene	50.0	46.6	0.5411	0.5042	-6.8	NA	±20	Average RF
trans-1,3-Dichloropropene	50.0	46.9	0.5744	0.5386	-6.2	NA	±20	Average RF
4-Bromofluorobenzene	50.0	49.1	0.4991	0.4896	-1.9	NA	±20	Average RF
Dibromofluoromethane	50.0	49.7	0.3171	0.3151	-0.6	NA	±20	Average RF
Toluene-d8	50.0	49.3	1.2713	1.2546	-1.3	NA	±20	Average RF

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803412

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**588018  
**Instrument ID:**R-MS-10

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\msvoa10\data\042018\D2692.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	09:09:00	
I:\ACQUDATA\msvoa10\data\042018\D2693.D\	Continuing Calibration Verification	RQ1803751-02	4/20/2018	09:51:00	
I:\ACQUDATA\msvoa10\data\042018\D2694.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	10:17:00	
I:\ACQUDATA\msvoa10\data\042018\D2695.D\	Lab Control Sample	RQ1803751-03	4/20/2018	10:49:00	
I:\ACQUDATA\msvoa10\data\042018\D2698.D\	Method Blank	RQ1803751-05	4/20/2018	11:59:00	
I:\ACQUDATA\msvoa10\data\042018\D2700.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	12:43:00	
I:\ACQUDATA\msvoa10\data\042018\D2701.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	13:05:00	
I:\ACQUDATA\msvoa10\data\042018\D2702.D\	TBlank-2	R1803412-009	4/20/2018	13:26:00	
I:\ACQUDATA\msvoa10\data\042018\D2703.D\	MW-01	R1803412-001	4/20/2018	13:50:00	
I:\ACQUDATA\msvoa10\data\042018\D2704.D\	MW-02	R1803412-002	4/20/2018	14:12:00	
I:\ACQUDATA\msvoa10\data\042018\D2705.D\	MW-03	R1803412-003	4/20/2018	14:34:00	
I:\ACQUDATA\msvoa10\data\042018\D2706.D\	MW-04	R1803412-004	4/20/2018	14:55:00	
I:\ACQUDATA\msvoa10\data\042018\D2707.D\	MW-05	R1803412-005	4/20/2018	15:17:00	
I:\ACQUDATA\msvoa10\data\042018\D2708.D\	MW-06	R1803412-006	4/20/2018	15:39:00	
I:\ACQUDATA\msvoa10\data\042018\D2709.D\	MW-07	R1803412-007	4/20/2018	16:01:00	
I:\ACQUDATA\msvoa10\data\042018\D2710.D\	MW-08	R1803412-008	4/20/2018	16:22:00	
I:\ACQUDATA\msvoa10\data\042018\D2711.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	16:44:00	
I:\ACQUDATA\msvoa10\data\042018\D2712.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	17:06:00	
I:\ACQUDATA\msvoa10\data\042018\D2713.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	17:28:00	
I:\ACQUDATA\msvoa10\data\042018\D2714.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	17:49:00	
I:\ACQUDATA\msvoa10\data\042018\D2715.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	18:11:00	
I:\ACQUDATA\msvoa10\data\042018\D2716.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	18:33:00	
I:\ACQUDATA\msvoa10\data\042018\D2717.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	18:55:00	

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803412

**Analysis Run Log**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:**

**Analysis Lot:**588018  
**Instrument ID:**R-MS-10

<b>Raw Data File</b>	<b>Sample Name</b>	<b>Lab Code</b>	<b>Date Analyzed</b>	<b>Time Analyzed</b>	<b>Q</b>
I:\ACQUDATA\msvoa10\data\042018\D2720.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	20:00:00	
I:\ACQUDATA\msvoa10\data\042018\D2721.D\	ZZZZZZZ	ZZZZZZZ	4/20/2018	20:22:00	
I:\ACQUDATA\msvoa10\data\042018\D2722.D\	MW-01 MS	RQ1803751-08	4/20/2018	20:43:00	
I:\ACQUDATA\msvoa10\data\042018\D2723.D\	MW-01 DMS	RQ1803751-09	4/20/2018	21:05:00	

Analyst: R. Johnson

Tune Method: W041118.M  
 Run Method: ↓  
 LIMS Run#: 588013, 588018

pH strips: Hyd 206717  
 ResCl strips: HF 100X17F  
 Syringes: 181117

Balance ID: 100517F  
 50 mL Class A used for dilution FV

Analysis: 8260C/624  
 Date: 04/20/18  
 Instr: MS #10

Pos.	Sample	Dilin.	Dilin. Prep.	RL	Tier	Vial	pH	File#	OK?	Comments
1	High Grade Std							D2690	Y	
2	BK							91	O.K.	
3	Time Check							92	Y	
4	COV		(Run as a BK)					93	Y	
5	LCS - Pres.		(with HCl)					94	Y	
6	LCS - Ump.							95	Y	
7	LCS - Mer		(w 1.0mL MeOH/50mL DI)					96	Y	
8	BK							97	N	X-over
9	Met BK - water							98	Y	
10	Met BK - Med.							99	Y	
11	R1803354-003	2.5	1.0mL MeOH/50mL DI	11868	II	C-1	7	D2700	Y	
12	R1803353-003	2.5	2.0mL/50mL Res. Chlorine = neg	12666	IV	C-1	7	01	Y	
13	R1803412-009	1.0	" "					02	Y	
14	↓	1.0	(8260C) T.B.					03	Y	
15	↓	1.0						04	Y	
16	↓	1.0						05	Y	
17	↓	1.0						06	Y	
18	↓	1.0						07	Y	
19	↓	1.0						08	Y	
20	↓	1.0						09	Y	
21	↓	1.0						10	Y	
22	R1803398-001	1.0		6656	III			D2710	Y	
23	↓	1.0						11	Y	
24	↓	1.0						12	Y	
25	↓	1.0						13	Y	
26	↓	1.0						14	Y	
27	↓	1.0						15	Y	
28	↓	1.0						16	Y	
29	R1803356-016	500	1.0g/10mL MeOH; 1.0mL/50mL					17	Y	
30	BK							18	Y	
31	R1803353-003MS	2.5	(20mL/50mL)	11868	II	7		D2720	Y	
32	↓	2.5	" "					19	O.K.	
33-34	R1803412-001MS	5.0mL	All samples = 5.0 mL + 5.0 mL + 5.0 mL combined IS/Surr. (189481 Secondary TG) + 1895481 Secondary HSL					20	Y	
Primary TG	189511							21	Y	
Primary HSL	189380							22	Y	
Primary OCC	189712							23	Y	
Primary Fr+	189277							24	Y	
Primary								25	Y	
								26	Y	
								27	Y	
								28	Y	
								29	Y	
								30	Y	
								31	Y	
								32	Y	
								33	Y	
								34	Y	

MS/PMS's  
 3353-003 ↓  
 189481 2.0mL  
 189964  
 189444 ↓  
 189188 5.0mL/dilution  
 3412-001  
 4.2mL  
 into full vials stamp.

Combined IS/Surr -  
 Surrogate 50 : 189124  
 Internal Std 50 : 189123  
 Reagents:

50mL DI  
 = LCS.

5.0 mL purged  
 1895481  
 189964  
 189444  
 189188 5.0mL  
 Secondary Fr+  
 Secondary  
 Secondary  
 Secondary

50mL DI  
 = COV.



May 07, 2018

Service Request No:R1803614

Mr. Jeff Danzinger  
Day Environmental, Incorporated  
1563 Lyell Avenue  
Rochester, NY 14606

**Laboratory Results for: Bulls Head North, Rochester, NY**

Dear Mr.Danzinger,

Enclosed are the results of the sample(s) submitted to our laboratory April 20, 2018  
For your reference, these analyses have been assigned our service request number **R1803614**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)





**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Received:** 04/20/2018 - 04/23/2018

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Two soil samples were received for analysis at ALS Environmental on 04/20/2018 - 04/23/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Semivolatiles by GC/MS:

Method 8270D, 04/25/2018: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

Method 8270D, 04/26/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 04/26/2018: The lower control limit for the spike recovery of the Matrix Spike Duplicate Sample (MSD) was exceeded for one or more analyte. Precision was also outside limits for many analytes. The analytes affected are flagged in the MS Summary.

#### Metals:

No significant anomalies were noted with this analysis.

#### General Chemistry:

No significant anomalies were noted with this analysis.

A handwritten signature in black ink, appearing to read "Randy Kuller".

Approved by \_\_\_\_\_

Date 05/07/2018



**SAMPLE DETECTION SUMMARY**

**CLIENT ID: TP-24 (4.0) Lab ID: R1803614-001**

Analyte	Results	Flag	MDL	PQL	Units	Method
Total Solids	89.0				Percent	ALS SOP
Arsenic, Total	4.2		0.4	1.1	mg/Kg	6010C
Barium, Total	71.0		0.09	2.2	mg/Kg	6010C
Cadmium, Total	0.34	J	0.02	0.56	mg/Kg	6010C
Chromium, Total	10.1		0.2	1.1	mg/Kg	6010C
Lead, Total	100		0.3	5.6	mg/Kg	6010C
Mercury, Total	0.156		0.007	0.036	mg/Kg	7471B
Silver, Total	0.09	J	0.08	1.1	mg/Kg	6010C
Anthracene	110	J	72	370	ug/Kg	8270D
Benz(a)anthracene	320	J	65	370	ug/Kg	8270D
Benzo(a)pyrene	330	J	75	370	ug/Kg	8270D
Benzo(b)fluoranthene	420		68	370	ug/Kg	8270D
Benzo(g,h,i)perylene	230	J	85	370	ug/Kg	8270D
Benzo(k)fluoranthene	140	J	83	370	ug/Kg	8270D
Chrysene	330	J	73	370	ug/Kg	8270D
Fluoranthene	660		87	370	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	220	J	82	370	ug/Kg	8270D
Phenanthrene	410		77	370	ug/Kg	8270D
Pyrene	600		72	370	ug/Kg	8270D

**CLIENT ID: TP-25 (5.0) Lab ID: R1803614-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
Total Solids	89.6				Percent	ALS SOP
Arsenic, Total	2.9		0.4	1.1	mg/Kg	6010C
Barium, Total	23.0		0.08	2.1	mg/Kg	6010C
Cadmium, Total	0.17	BJ	0.02	0.53	mg/Kg	6010C
Chromium, Total	5.2		0.10	1.1	mg/Kg	6010C
Lead, Total	4.9	J	0.3	5.3	mg/Kg	6010C



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:**R1803614

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1803614-001	TP-24 (4.0)	4/20/2018	1030
R1803614-002	TP-25 (5.0)	4/20/2018	1105



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

50764

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <b>Bulls Head North, Rochester, NY</b>		Project Number <b>54645-1B</b>		<b>ANALYSIS REQUESTED</b> (Include Method Number and Container Preservative)																			
Project Manager <b>Jeff Danzinger</b>		Report CC		PRESERVATIVE																			
Company/Address <b>Day Environmental, Inc. 1563 Lyell Avenue Rochester, NY 14606</b>				NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 824 • CLP	GC/MS SVOCs • 8270 • 825	GC VOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	PCRA 6510 7471	PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____										
Phone # <b>585-454-0210</b>		Email <b>jdanzinger@daymail.net</b>																					
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Dennis Peck</b>		REMARKS/ ALTERNATE DESCRIPTION																			
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX																			
		DATE	TIME																				
TP-24 (4.0)		4-20-2018	1030	Soil	2		X																
TP-25 (5.0)		4-20-2018	1105	Soil	2		X																
<i>also do MS/MSD</i>																							
SPECIAL INSTRUCTIONS/COMMENTS Metals					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day    2 day    3 day 4 day <u>5 day</u> REQUESTED REPORT DATE <u>15 day</u>					REPORT REQUIREMENTS I. Results Only <input checked="" type="checkbox"/> II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data NYDEL Equip Escal Edata <input checked="" type="checkbox"/> Yes    No					INVOICE INFORMATION see 1/24/18 quote from C. CUSTARD PO # <u>54645-1B</u> BILL TO: <u>SAME</u>								
STATE WHERE SAMPLES WERE COLLECTED																							
RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY			
Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature				Signature			
Printed Name <b>Dennis Peck</b>				Printed Name <b>Jeff Danzinger</b>				Printed Name <b>Jeff Danzinger</b>				Printed Name <b>Dennis Peck</b>				Printed Name				Printed Name			
Firm <b>City of Rochester</b>				Firm <b>Day Envi</b>				Firm <b>Day Envi</b>				Firm <b>ALS</b>				Firm				Firm			
Date/Time <b>4/20/18 1528</b>				Date/Time <b>4/20/18 / 1528</b>				Date/Time <b>4/20/18 @ 1615</b>				Date/Time <b>4/20/18 / 1615</b>				Date/Time				Date/Time			

**R1803614 5**  
 Day Environmental, Incorporated  
 Bulls Head North, Rochester, NY



# Cooler Receipt and Preservation Check Form

R1803614

5

Day Environmental, Incorporated  
Bulls Head North, Rochester, NY



Project/Client Day Environmental Folder Number \_\_\_\_\_

Cooler received on 4/20/18 by: DM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y N
4	Circle: Wet Ice Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 4/20/18 Time: 1618 ID: R#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.08</u>						
Correction Factor (°C)	<u>+0.18</u>						
Corrected Temp (°C)	<u>2.18</u>						
Temp from: Type of bottle	<u>Cent. tube</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by DM on 4/20/18 at 1618  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown/Preservation Check\*\*: Date: 4/23/18 Time: 1320 by: DM

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES NO
- 10. Did all bottle labels and tags agree with custody papers?  YES NO
- 11. Were correct containers used for the tests indicated?  YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated  N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**						

\*\*VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 021918 2115R  
Explain all Discrepancies/ Other Comments: \_\_\_\_\_

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: DM  
PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



## Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>



# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803614

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

<b>Method</b>	<b>Matrix</b>	<b>Analyte</b>
ALS SOP	Soil	Total Solids

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18

**Service Request:** R1803614

**Sample Name:** TP-24 (4.0)  
**Lab Code:** R1803614-001  
**Sample Matrix:** Soil

**Date Collected:** 04/20/18  
**Date Received:** 04/23/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

KMCLAEN  
KMCLAEN  
DMURPHY

**Analyzed By**

NMANSEN  
KMCLAEN  
JMISIUREWICZ  
KWONG

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002  
**Sample Matrix:** Soil

**Date Collected:** 04/20/18  
**Date Received:** 04/20/18

**Analysis Method**

6010C  
7471B  
8270D  
ALS SOP

**Extracted/Digested By**

KMCLAEN  
KMCLAEN  
DMURPHY

**Analyzed By**

NMANSEN  
KMCLAEN  
JMISIUREWICZ  
KWONG



## INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18 10:30  
**Date Received:** 04/23/18 16:15

**Sample Name:** TP-24 (4.0)  
**Lab Code:** R1803614-001

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	110 U	370	110	1	04/25/18 19:13	4/25/18	
2,3,4,6-Tetrachlorophenol	92 U	370	92	1	04/25/18 19:13	4/25/18	
2,4,5-Trichlorophenol	92 U	370	92	1	04/25/18 19:13	4/25/18	
2,4,6-Trichlorophenol	96 U	370	96	1	04/25/18 19:13	4/25/18	
2,4-Dichlorophenol	76 U	370	76	1	04/25/18 19:13	4/25/18	
2,4-Dimethylphenol	71 U	370	71	1	04/25/18 19:13	4/25/18	
2,4-Dinitrophenol	69 U	1900	69	1	04/25/18 19:13	4/25/18	
2,4-Dinitrotoluene	97 U	370	97	1	04/25/18 19:13	4/25/18	
2,6-Dinitrotoluene	130 U	370	130	1	04/25/18 19:13	4/25/18	
2-Chloronaphthalene	82 U	370	82	1	04/25/18 19:13	4/25/18	
2-Chlorophenol	90 U	370	90	1	04/25/18 19:13	4/25/18	
2-Methylnaphthalene	83 U	370	83	1	04/25/18 19:13	4/25/18	
2-Methylphenol	90 U	370	90	1	04/25/18 19:13	4/25/18	
2-Nitroaniline	110 U	1900	110	1	04/25/18 19:13	4/25/18	
2-Nitrophenol	84 U	370	84	1	04/25/18 19:13	4/25/18	
3,3'-Dichlorobenzidine	120 U	370	120	1	04/25/18 19:13	4/25/18	
3- and 4-Methylphenol Coelution	93 U	370	93	1	04/25/18 19:13	4/25/18	
3-Nitroaniline	80 U	1900	80	1	04/25/18 19:13	4/25/18	
4,6-Dinitro-2-methylphenol	80 U	1900	80	1	04/25/18 19:13	4/25/18	
4-Bromophenyl Phenyl Ether	110 U	370	110	1	04/25/18 19:13	4/25/18	
4-Chloro-3-methylphenol	85 U	370	85	1	04/25/18 19:13	4/25/18	
4-Chloroaniline	45 U	370	45	1	04/25/18 19:13	4/25/18	
4-Chlorophenyl Phenyl Ether	88 U	370	88	1	04/25/18 19:13	4/25/18	
4-Nitroaniline	82 U	1900	82	1	04/25/18 19:13	4/25/18	
4-Nitrophenol	220 U	1900	220	1	04/25/18 19:13	4/25/18	
Acenaphthene	82 U	370	82	1	04/25/18 19:13	4/25/18	
Acenaphthylene	76 U	370	76	1	04/25/18 19:13	4/25/18	
Acetophenone	87 U	370	87	1	04/25/18 19:13	4/25/18	
Anthracene	110 J	370	72	1	04/25/18 19:13	4/25/18	
Atrazine	100 U	370	100	1	04/25/18 19:13	4/25/18	
Benz(a)anthracene	320 J	370	65	1	04/25/18 19:13	4/25/18	
Benzaldehyde	88 U	1900	88	1	04/25/18 19:13	4/25/18	
Benzo(a)pyrene	330 J	370	75	1	04/25/18 19:13	4/25/18	
Benzo(b)fluoranthene	420	370	68	1	04/25/18 19:13	4/25/18	
Benzo(g,h,i)perylene	230 J	370	85	1	04/25/18 19:13	4/25/18	
Benzo(k)fluoranthene	140 J	370	83	1	04/25/18 19:13	4/25/18	
Biphenyl	87 U	370	87	1	04/25/18 19:13	4/25/18	
2,2'-Oxybis(1-chloropropane)	91 U	370	91	1	04/25/18 19:13	4/25/18	
Bis(2-chloroethoxy)methane	85 U	370	85	1	04/25/18 19:13	4/25/18	
Bis(2-chloroethyl) Ether	68 U	370	68	1	04/25/18 19:13	4/25/18	
Bis(2-ethylhexyl) Phthalate	520 U	560	520	1	04/25/18 19:13	4/25/18	
Butyl Benzyl Phthalate	71 U	370	71	1	04/25/18 19:13	4/25/18	
Caprolactam	82 U	370	82	1	04/25/18 19:13	4/25/18	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18 10:30  
**Date Received:** 04/23/18 16:15

**Sample Name:** TP-24 (4.0)  
**Lab Code:** R1803614-001

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	92 U	370	92	1	04/25/18 19:13	4/25/18	
Chrysene	<b>330 J</b>	370	73	1	04/25/18 19:13	4/25/18	
Di-n-butyl Phthalate	130 U	370	130	1	04/25/18 19:13	4/25/18	
Di-n-octyl Phthalate	120 U	370	120	1	04/25/18 19:13	4/25/18	
Dibenz(a,h)anthracene	67 U	370	67	1	04/25/18 19:13	4/25/18	
Dibenzofuran	76 U	370	76	1	04/25/18 19:13	4/25/18	
Diethyl Phthalate	210 U	370	210	1	04/25/18 19:13	4/25/18	
Dimethyl Phthalate	110 U	370	110	1	04/25/18 19:13	4/25/18	
Fluoranthene	<b>660</b>	370	87	1	04/25/18 19:13	4/25/18	
Fluorene	93 U	370	93	1	04/25/18 19:13	4/25/18	
Hexachlorobenzene	86 U	370	86	1	04/25/18 19:13	4/25/18	
Hexachlorobutadiene	63 U	370	63	1	04/25/18 19:13	4/25/18	
Hexachlorocyclopentadiene	62 U	370	62	1	04/25/18 19:13	4/25/18	
Hexachloroethane	65 U	370	65	1	04/25/18 19:13	4/25/18	
Indeno(1,2,3-cd)pyrene	<b>220 J</b>	370	82	1	04/25/18 19:13	4/25/18	
Isophorone	80 U	370	80	1	04/25/18 19:13	4/25/18	
N-Nitrosodi-n-propylamine	67 U	370	67	1	04/25/18 19:13	4/25/18	
N-Nitrosodiphenylamine	170 U	370	170	1	04/25/18 19:13	4/25/18	
Naphthalene	76 U	370	76	1	04/25/18 19:13	4/25/18	
Nitrobenzene	76 U	370	76	1	04/25/18 19:13	4/25/18	
Pentachlorophenol (PCP)	130 U	1900	130	1	04/25/18 19:13	4/25/18	
Phenanthrene	<b>410</b>	370	77	1	04/25/18 19:13	4/25/18	
Phenol	81 U	370	81	1	04/25/18 19:13	4/25/18	
Pyrene	<b>600</b>	370	72	1	04/25/18 19:13	4/25/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	42	13 - 128	04/25/18 19:13	
2-Fluorobiphenyl	41	10 - 102	04/25/18 19:13	
2-Fluorophenol	41	16 - 129	04/25/18 19:13	
Nitrobenzene-d5	42	10 - 95	04/25/18 19:13	
Phenol-d6	42	10 - 145	04/25/18 19:13	
Terphenyl-d14	50	16 - 126	04/25/18 19:13	



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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18 11:05  
**Date Received:** 04/20/18 16:15

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	110 U	370	110	1	04/25/18 19:41	4/25/18	
2,3,4,6-Tetrachlorophenol	91 U	370	91	1	04/25/18 19:41	4/25/18	
2,4,5-Trichlorophenol	92 U	370	92	1	04/25/18 19:41	4/25/18	
2,4,6-Trichlorophenol	95 U	370	95	1	04/25/18 19:41	4/25/18	
2,4-Dichlorophenol	76 U	370	76	1	04/25/18 19:41	4/25/18	
2,4-Dimethylphenol	70 U	370	70	1	04/25/18 19:41	4/25/18	
2,4-Dinitrophenol	69 U	1900	69	1	04/25/18 19:41	4/25/18	
2,4-Dinitrotoluene	96 U	370	96	1	04/25/18 19:41	4/25/18	
2,6-Dinitrotoluene	130 U	370	130	1	04/25/18 19:41	4/25/18	
2-Chloronaphthalene	82 U	370	82	1	04/25/18 19:41	4/25/18	
2-Chlorophenol	90 U	370	90	1	04/25/18 19:41	4/25/18	
2-Methylnaphthalene	83 U	370	83	1	04/25/18 19:41	4/25/18	
2-Methylphenol	90 U	370	90	1	04/25/18 19:41	4/25/18	
2-Nitroaniline	110 U	1900	110	1	04/25/18 19:41	4/25/18	
2-Nitrophenol	84 U	370	84	1	04/25/18 19:41	4/25/18	
3,3'-Dichlorobenzidine	120 U	370	120	1	04/25/18 19:41	4/25/18	
3- and 4-Methylphenol Coelution	93 U	370	93	1	04/25/18 19:41	4/25/18	
3-Nitroaniline	80 U	1900	80	1	04/25/18 19:41	4/25/18	
4,6-Dinitro-2-methylphenol	80 U	1900	80	1	04/25/18 19:41	4/25/18	
4-Bromophenyl Phenyl Ether	110 U	370	110	1	04/25/18 19:41	4/25/18	
4-Chloro-3-methylphenol	84 U	370	84	1	04/25/18 19:41	4/25/18	
4-Chloroaniline	44 U	370	44	1	04/25/18 19:41	4/25/18	
4-Chlorophenyl Phenyl Ether	88 U	370	88	1	04/25/18 19:41	4/25/18	
4-Nitroaniline	81 U	1900	81	1	04/25/18 19:41	4/25/18	
4-Nitrophenol	220 U	1900	220	1	04/25/18 19:41	4/25/18	
Acenaphthene	81 U	370	81	1	04/25/18 19:41	4/25/18	
Acenaphthylene	75 U	370	75	1	04/25/18 19:41	4/25/18	
Acetophenone	86 U	370	86	1	04/25/18 19:41	4/25/18	
Anthracene	71 U	370	71	1	04/25/18 19:41	4/25/18	
Atrazine	100 U	370	100	1	04/25/18 19:41	4/25/18	
Benz(a)anthracene	65 U	370	65	1	04/25/18 19:41	4/25/18	
Benzaldehyde	88 U	1900	88	1	04/25/18 19:41	4/25/18	
Benzo(a)pyrene	74 U	370	74	1	04/25/18 19:41	4/25/18	
Benzo(b)fluoranthene	67 U	370	67	1	04/25/18 19:41	4/25/18	
Benzo(g,h,i)perylene	84 U	370	84	1	04/25/18 19:41	4/25/18	
Benzo(k)fluoranthene	83 U	370	83	1	04/25/18 19:41	4/25/18	
Biphenyl	86 U	370	86	1	04/25/18 19:41	4/25/18	
2,2'-Oxybis(1-chloropropane)	90 U	370	90	1	04/25/18 19:41	4/25/18	
Bis(2-chloroethoxy)methane	85 U	370	85	1	04/25/18 19:41	4/25/18	
Bis(2-chloroethyl) Ether	67 U	370	67	1	04/25/18 19:41	4/25/18	
Bis(2-ethylhexyl) Phthalate	520 U	560	520	1	04/25/18 19:41	4/25/18	
Butyl Benzyl Phthalate	71 U	370	71	1	04/25/18 19:41	4/25/18	
Caprolactam	82 U	370	82	1	04/25/18 19:41	4/25/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18 11:05  
**Date Received:** 04/20/18 16:15

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	91 U	370	91	1	04/25/18 19:41	4/25/18	
Chrysene	73 U	370	73	1	04/25/18 19:41	4/25/18	
Di-n-butyl Phthalate	130 U	370	130	1	04/25/18 19:41	4/25/18	
Di-n-octyl Phthalate	120 U	370	120	1	04/25/18 19:41	4/25/18	
Dibenz(a,h)anthracene	67 U	370	67	1	04/25/18 19:41	4/25/18	
Dibenzofuran	76 U	370	76	1	04/25/18 19:41	4/25/18	
Diethyl Phthalate	210 U	370	210	1	04/25/18 19:41	4/25/18	
Dimethyl Phthalate	110 U	370	110	1	04/25/18 19:41	4/25/18	
Fluoranthene	87 U	370	87	1	04/25/18 19:41	4/25/18	
Fluorene	93 U	370	93	1	04/25/18 19:41	4/25/18	
Hexachlorobenzene	86 U	370	86	1	04/25/18 19:41	4/25/18	
Hexachlorobutadiene	63 U	370	63	1	04/25/18 19:41	4/25/18	
Hexachlorocyclopentadiene	61 U	370	61	1	04/25/18 19:41	4/25/18	
Hexachloroethane	65 U	370	65	1	04/25/18 19:41	4/25/18	
Indeno(1,2,3-cd)pyrene	81 U	370	81	1	04/25/18 19:41	4/25/18	
Isophorone	80 U	370	80	1	04/25/18 19:41	4/25/18	
N-Nitrosodi-n-propylamine	67 U	370	67	1	04/25/18 19:41	4/25/18	
N-Nitrosodiphenylamine	170 U	370	170	1	04/25/18 19:41	4/25/18	
Naphthalene	76 U	370	76	1	04/25/18 19:41	4/25/18	
Nitrobenzene	76 U	370	76	1	04/25/18 19:41	4/25/18	
Pentachlorophenol (PCP)	130 U	1900	130	1	04/25/18 19:41	4/25/18	
Phenanthrene	77 U	370	77	1	04/25/18 19:41	4/25/18	
Phenol	81 U	370	81	1	04/25/18 19:41	4/25/18	
Pyrene	72 U	370	72	1	04/25/18 19:41	4/25/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	50	13 - 128	04/25/18 19:41	
2-Fluorobiphenyl	42	10 - 102	04/25/18 19:41	
2-Fluorophenol	41	16 - 129	04/25/18 19:41	
Nitrobenzene-d5	43	10 - 95	04/25/18 19:41	
Phenol-d6	45	10 - 145	04/25/18 19:41	
Terphenyl-d14	91	16 - 126	04/25/18 19:41	



# Metals

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-24 (4.0)  
**Lab Code:** R1803614-001

**Service Request:** R1803614  
**Date Collected:** 04/20/18 10:30  
**Date Received:** 04/23/18 16:15

**Basis:** Dry

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic, Total	6010C	4.2	mg/Kg	1.1	0.4	1	04/27/18 13:09	04/25/18	
Barium, Total	6010C	71.0	mg/Kg	2.2	0.09	1	04/27/18 13:09	04/25/18	
Cadmium, Total	6010C	0.34 J	mg/Kg	0.56	0.02	1	04/27/18 13:09	04/25/18	
Chromium, Total	6010C	10.1	mg/Kg	1.1	0.2	1	04/27/18 13:09	04/25/18	
Lead, Total	6010C	100	mg/Kg	5.6	0.3	1	04/27/18 13:09	04/25/18	
Mercury, Total	7471B	0.156	mg/Kg	0.036	0.007	1	04/26/18 17:12	04/25/18	
Selenium, Total	6010C	0.5 U	mg/Kg	1.1	0.5	1	04/27/18 13:09	04/25/18	
Silver, Total	6010C	0.09 J	mg/Kg	1.1	0.08	1	04/27/18 13:09	04/25/18	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002

**Service Request:** R1803614  
**Date Collected:** 04/20/18 11:05  
**Date Received:** 04/20/18 16:15

**Basis:** Dry

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic, Total	6010C	<b>2.9</b>	mg/Kg	1.1	0.4	1	04/27/18 13:12	04/25/18	
Barium, Total	6010C	<b>23.0</b>	mg/Kg	2.1	0.08	1	04/27/18 13:12	04/25/18	
Cadmium, Total	6010C	<b>0.17 BJ</b>	mg/Kg	0.53	0.02	1	04/27/18 13:12	04/25/18	
Chromium, Total	6010C	<b>5.2</b>	mg/Kg	1.1	0.10	1	04/27/18 13:12	04/25/18	
Lead, Total	6010C	<b>4.9 J</b>	mg/Kg	5.3	0.3	1	04/27/18 13:12	04/25/18	
Mercury, Total	7471B	0.007 U	mg/Kg	0.036	0.007	1	04/26/18 17:14	04/25/18	
Selenium, Total	6010C	0.5 U	mg/Kg	1.1	0.5	1	04/27/18 13:12	04/25/18	
Silver, Total	6010C	0.08 U	mg/Kg	1.1	0.08	1	04/27/18 13:12	04/25/18	



## General Chemistry

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-24 (4.0)  
**Lab Code:** R1803614-001

**Service Request:** R1803614  
**Date Collected:** 04/20/18 10:30  
**Date Received:** 04/23/18 16:15  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	89.0	Percent	-	-	1	04/24/18 16:15	

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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002

**Service Request:** R1803614  
**Date Collected:** 04/20/18 11:05  
**Date Received:** 04/20/18 16:15  
**Basis:** As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Total Solids	ALS SOP	89.6	Percent	-	-	1	04/24/18 16:15	





# QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
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## Semivolatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
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ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		13 - 128	10 - 102	16 - 129
TP-24 (4.0)	R1803614-001	42	41	41
TP-25 (5.0)	R1803614-002	50	42	41
Method Blank	RQ1803885-01	56	46	54
Lab Control Sample	RQ1803885-02	73	67	62
Duplicate Lab Control Sample	RQ1803885-03	68	54	50
TP-25 (5.0) MS	RQ1803885-04	68	50	44

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614

**SURROGATE RECOVERY SUMMARY**  
**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Extraction Method:** EPA 3541

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		10 - 95	10 - 145	16 - 126
TP-24 (4.0)	R1803614-001	42	42	50
TP-25 (5.0)	R1803614-002	43	45	91
Method Blank	RQ1803885-01	49	59	89
Lab Control Sample	RQ1803885-02	66	68	91
Duplicate Lab Control Sample	RQ1803885-03	54	53	93
TP-25 (5.0) MS	RQ1803885-04	49	50	90

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18  
**Date Received:** 04/20/18  
**Date Analyzed:** 04/25/18  
**Date Extracted:** 04/25/18

**Matrix Spike Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

**Matrix Spike**  
RQ1803885-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
1,2,4,5-Tetrachlorobenzene	110 U	1690	3810	44	10-101
2,3,4,6-Tetrachlorophenol	91 U	2370	3720	64	11-125
2,4,5-Trichlorophenol	92 U	2390	3720	64	19-103
2,4,6-Trichlorophenol	95 U	2360	3720	63	13-149
2,4-Dichlorophenol	76 U	2120	3720	57	16-98
2,4-Dimethylphenol	70 U	2100	3720	56	10-98
2,4-Dinitrophenol	69 U	900 J	3720	24	10-129
2,4-Dinitrotoluene	96 U	2870	3720	77	13-127
2,6-Dinitrotoluene	130 U	2660	3720	72	14-121
2-Chloronaphthalene	82 U	2060	3720	55	10-94
2-Chlorophenol	90 U	1860	3720	50	14-99
2-Methylnaphthalene	83 U	2000	3720	54	10-90
2-Methylphenol	90 U	1980	3720	53	14-99
2-Nitroaniline	110 U	2780	3720	75	19-109
2-Nitrophenol	84 U	2050	3720	55	10-90
3,3'-Dichlorobenzidine	120 U	2460	3720	66	10-118
3- and 4-Methylphenol Coelution	93 U	2070	3720	56	11-101
3-Nitroaniline	80 U	2170	3720	58	16-103
4,6-Dinitro-2-methylphenol	80 U	1940	3720	52	10-112
4-Bromophenyl Phenyl Ether	110 U	2510	3720	68	13-112
4-Chloro-3-methylphenol	84 U	2620	3720	70	18-110
4-Chloroaniline	44 U	1750	3720	47	10-91
4-Chlorophenyl Phenyl Ether	88 U	2630	3720	71	11-104
4-Nitroaniline	81 U	2470	3720	66	17-114
4-Nitrophenol	220 U	2980	3720	80	11-131
Acenaphthene	81 U	2270	3720	61	12-99
Acenaphthylene	75 U	2300	3720	62	10-102
Acetophenone	86 U	3210	7440	43	12-99
Anthracene	71 U	3020	3720	81	15-116
Atrazine	100 U	3360	3720	90	18-146
Benz(a)anthracene	65 U	3250	3720	87	10-129
Benzaldehyde	88 U	1690 J	3720	45	10-200
Benzo(a)pyrene	74 U	3350	3720	90	10-127
Benzo(b)fluoranthene	67 U	3090	3720	83	14-128
Benzo(g,h,i)perylene	84 U	3300	3720	89	10-132

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18  
**Date Received:** 04/20/18  
**Date Analyzed:** 04/25/18  
**Date Extracted:** 04/25/18

**Matrix Spike Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002  
**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

**Units:** ug/Kg  
**Basis:** Dry

**Matrix Spike**  
RQ1803885-04

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Benzo(k)fluoranthene	83 U	3280	3720	88	16-118
Biphenyl	86 U	1950	3720	52	10-99
2,2'-Oxybis(1-chloropropane)	90 U	2050	3720	55	13-63
Bis(2-chloroethoxy)methane	84 U	2070	3720	56	16-93
Bis(2-chloroethyl) Ether	67 U	1690	3720	45	13-63
Bis(2-ethylhexyl) Phthalate	510 U	3430	3720	92	13-140
Butyl Benzyl Phthalate	70 U	3150	3720	85	19-125
Caprolactam	82 U	2670	3720	72	10-115
Carbazole	91 U	3210	3720	86	21-118
Chrysene	73 U	3340	3720	90	10-133
Di-n-butyl Phthalate	130 U	3050	3720	82	19-128
Di-n-octyl Phthalate	120 U	3490	3720	94	16-140
Dibenz(a,h)anthracene	67 U	3110	3720	84	10-128
Dibenzofuran	75 U	2440	3720	66	13-99
Diethyl Phthalate	210 U	2540	3720	68	17-117
Dimethyl Phthalate	110 U	2350	3720	63	18-103
Fluoranthene	87 U	3160	3720	85	10-149
Fluorene	93 U	2540	3720	68	14-105
Hexachlorobenzene	86 U	2750	3720	74	14-114
Hexachlorobutadiene	63 U	1680	3720	45	12-84
Hexachlorocyclopentadiene	61 U	1100	3720	30	10-101
Hexachloroethane	65 U	1380	3720	37	16-114
Indeno(1,2,3-cd)pyrene	81 U	3140	3720	85	10-129
Isophorone	80 U	2070	3720	56	15-95
N-Nitrosodi-n-propylamine	67 U	2020	3720	54	11-98
N-Nitrosodiphenylamine	170 U	2860	3720	77	16-121
Naphthalene	76 U	1850	3720	50	10-83
Nitrobenzene	76 U	1790	3720	48	20-84
Pentachlorophenol (PCP)	130 U	1710 J	3720	46	10-127
Phenanthrene	77 U	2910	3720	78	10-137
Phenol	81 U	2080	3720	56	10-109
Pyrene	72 U	3340	3720	90	10-147

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1803885-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	96 U	330	96	1	04/25/18 17:19	4/25/18	
2,3,4,6-Tetrachlorophenol	82 U	330	82	1	04/25/18 17:19	4/25/18	
2,4,5-Trichlorophenol	82 U	330	82	1	04/25/18 17:19	4/25/18	
2,4,6-Trichlorophenol	86 U	330	86	1	04/25/18 17:19	4/25/18	
2,4-Dichlorophenol	68 U	330	68	1	04/25/18 17:19	4/25/18	
2,4-Dimethylphenol	63 U	330	63	1	04/25/18 17:19	4/25/18	
2,4-Dinitrophenol	62 U	1700	62	1	04/25/18 17:19	4/25/18	
2,4-Dinitrotoluene	86 U	330	86	1	04/25/18 17:19	4/25/18	
2,6-Dinitrotoluene	120 U	330	120	1	04/25/18 17:19	4/25/18	
2-Chloronaphthalene	73 U	330	73	1	04/25/18 17:19	4/25/18	
2-Chlorophenol	80 U	330	80	1	04/25/18 17:19	4/25/18	
2-Methylnaphthalene	74 U	330	74	1	04/25/18 17:19	4/25/18	
2-Methylphenol	80 U	330	80	1	04/25/18 17:19	4/25/18	
2-Nitroaniline	95 U	1700	95	1	04/25/18 17:19	4/25/18	
2-Nitrophenol	75 U	330	75	1	04/25/18 17:19	4/25/18	
3,3'-Dichlorobenzidine	110 U	330	110	1	04/25/18 17:19	4/25/18	
3- and 4-Methylphenol Coelution	83 U	330	83	1	04/25/18 17:19	4/25/18	
3-Nitroaniline	72 U	1700	72	1	04/25/18 17:19	4/25/18	
4,6-Dinitro-2-methylphenol	72 U	1700	72	1	04/25/18 17:19	4/25/18	
4-Bromophenyl Phenyl Ether	94 U	330	94	1	04/25/18 17:19	4/25/18	
4-Chloro-3-methylphenol	75 U	330	75	1	04/25/18 17:19	4/25/18	
4-Chloroaniline	40 U	330	40	1	04/25/18 17:19	4/25/18	
4-Chlorophenyl Phenyl Ether	79 U	330	79	1	04/25/18 17:19	4/25/18	
4-Nitroaniline	73 U	1700	73	1	04/25/18 17:19	4/25/18	
4-Nitrophenol	200 U	1700	200	1	04/25/18 17:19	4/25/18	
Acenaphthene	73 U	330	73	1	04/25/18 17:19	4/25/18	
Acenaphthylene	68 U	330	68	1	04/25/18 17:19	4/25/18	
Acetophenone	77 U	330	77	1	04/25/18 17:19	4/25/18	
Anthracene	64 U	330	64	1	04/25/18 17:19	4/25/18	
Atrazine	89 U	330	89	1	04/25/18 17:19	4/25/18	
Benz(a)anthracene	58 U	330	58	1	04/25/18 17:19	4/25/18	
Benzaldehyde	79 U	1700	79	1	04/25/18 17:19	4/25/18	
Benzo(a)pyrene	67 U	330	67	1	04/25/18 17:19	4/25/18	
Benzo(b)fluoranthene	60 U	330	60	1	04/25/18 17:19	4/25/18	
Benzo(g,h,i)perylene	75 U	330	75	1	04/25/18 17:19	4/25/18	
Benzo(k)fluoranthene	74 U	330	74	1	04/25/18 17:19	4/25/18	
Biphenyl	77 U	330	77	1	04/25/18 17:19	4/25/18	
2,2'-Oxybis(1-chloropropane)	81 U	330	81	1	04/25/18 17:19	4/25/18	
Bis(2-chloroethoxy)methane	76 U	330	76	1	04/25/18 17:19	4/25/18	
Bis(2-chloroethyl) Ether	60 U	330	60	1	04/25/18 17:19	4/25/18	
Bis(2-ethylhexyl) Phthalate	460 U	500	460	1	04/25/18 17:19	4/25/18	
Butyl Benzyl Phthalate	63 U	330	63	1	04/25/18 17:19	4/25/18	
Caprolactam	74 U	330	74	1	04/25/18 17:19	4/25/18	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1803885-01

**Units:** ug/Kg  
**Basis:** Dry

**Semivolatile Organic Compounds by GC/MS**

**Analysis Method:** 8270D  
**Prep Method:** EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	82 U	330	82	1	04/25/18 17:19	4/25/18	
Chrysene	65 U	330	65	1	04/25/18 17:19	4/25/18	
Di-n-butyl Phthalate	110 U	330	110	1	04/25/18 17:19	4/25/18	
Di-n-octyl Phthalate	99 U	330	99	1	04/25/18 17:19	4/25/18	
Dibenz(a,h)anthracene	60 U	330	60	1	04/25/18 17:19	4/25/18	
Dibenzofuran	68 U	330	68	1	04/25/18 17:19	4/25/18	
Diethyl Phthalate	180 U	330	180	1	04/25/18 17:19	4/25/18	
Dimethyl Phthalate	91 U	330	91	1	04/25/18 17:19	4/25/18	
Fluoranthene	78 U	330	78	1	04/25/18 17:19	4/25/18	
Fluorene	83 U	330	83	1	04/25/18 17:19	4/25/18	
Hexachlorobenzene	77 U	330	77	1	04/25/18 17:19	4/25/18	
Hexachlorobutadiene	56 U	330	56	1	04/25/18 17:19	4/25/18	
Hexachlorocyclopentadiene	55 U	330	55	1	04/25/18 17:19	4/25/18	
Hexachloroethane	58 U	330	58	1	04/25/18 17:19	4/25/18	
Indeno(1,2,3-cd)pyrene	73 U	330	73	1	04/25/18 17:19	4/25/18	
Isophorone	71 U	330	71	1	04/25/18 17:19	4/25/18	
N-Nitrosodi-n-propylamine	60 U	330	60	1	04/25/18 17:19	4/25/18	
N-Nitrosodiphenylamine	150 U	330	150	1	04/25/18 17:19	4/25/18	
Naphthalene	68 U	330	68	1	04/25/18 17:19	4/25/18	
Nitrobenzene	68 U	330	68	1	04/25/18 17:19	4/25/18	
Pentachlorophenol (PCP)	110 U	1700	110	1	04/25/18 17:19	4/25/18	
Phenanthrene	69 U	330	69	1	04/25/18 17:19	4/25/18	
Phenol	72 U	330	72	1	04/25/18 17:19	4/25/18	
Pyrene	65 U	330	65	1	04/25/18 17:19	4/25/18	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	56	13 - 128	04/25/18 17:19	
2-Fluorobiphenyl	46	10 - 102	04/25/18 17:19	
2-Fluorophenol	54	16 - 129	04/25/18 17:19	
Nitrobenzene-d5	49	10 - 95	04/25/18 17:19	
Phenol-d6	59	10 - 145	04/25/18 17:19	
Terphenyl-d14	89	16 - 126	04/25/18 17:19	



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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Analyzed:** 04/25/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1803885-02				Duplicate Lab Control Sample RQ1803885-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
1,2,4,5-Tetrachlorobenzene	8270D	1960	3420	57	1610	3420	47	31-127	19	30
2,3,4,6-Tetrachlorophenol	8270D	2270	3330	68	2080	3330	62	37-123	9	30
2,4,5-Trichlorophenol	8270D	2280	3330	68	1970	3330	59	32-104	14	30
2,4,6-Trichlorophenol	8270D	2370	3330	71	2150	3330	64	30-101	10	30
2,4-Dichlorophenol	8270D	2460	3330	74	1930	3330	58	39-135	24	30
2,4-Dimethylphenol	8270D	2690	3330	81	2130	3330	64	31-135	23	30
2,4-Dinitrophenol	8270D	686 J	3330	21	982 J	3330	29	10-128	32*	30
2,4-Dinitrotoluene	8270D	2580	3330	77	2530	3330	76	39-122	1	30
2,6-Dinitrotoluene	8270D	2550	3330	76	2390	3330	72	34-122	5	30
2-Chloronaphthalene	8270D	2390	3330	72	1910	3330	57	41-124	23	30
2-Chlorophenol	8270D	2250	3330	67	1820	3330	55	39-123	20	30
2-Methylnaphthalene	8270D	2310	3330	69	1860	3330	56	33-125	21	30
2-Methylphenol	8270D	2400	3330	72	1910	3330	57	38-123	23	30
2-Nitroaniline	8270D	2770	3330	83	2580	3330	77	25-116	8	30
2-Nitrophenol	8270D	2340	3330	70	1840	3330	55	23-96	24	30
3,3'-Dichlorobenzidine	8270D	2380	3330	71	2390	3330	72	25-105	1	30
3- and 4-Methylphenol Coelution	8270D	2510	3330	75	1940	3330	58	42-114	26	30
3-Nitroaniline	8270D	2200	3330	66	2050	3330	61	43-106	8	30
4,6-Dinitro-2-methylphenol	8270D	1620 J	3330	49	1580 J	3330	47	10-127	4	30
4-Bromophenyl Phenyl Ether	8270D	2430	3330	73	2320	3330	70	40-102	4	30
4-Chloro-3-methylphenol	8270D	2750	3330	83	2390	3330	72	42-140	14	30
4-Chloroaniline	8270D	2150	3330	65	1600	3330	48	34-101	30	30
4-Chlorophenyl Phenyl Ether	8270D	2560	3330	77	2350	3330	70	39-100	10	30
4-Nitroaniline	8270D	2200	3330	66	2200	3330	66	35-112	<1	30
4-Nitrophenol	8270D	2310	3330	69	2380	3330	71	34-123	3	30
Acenaphthene	8270D	2370	3330	71	2060	3330	62	32-100	14	30
Acenaphthylene	8270D	2510	3330	75	2130	3330	64	33-100	16	30
Acetophenone	8270D	3780	6670	57	3210	6670	48	23-87	17	30
Anthracene	8270D	2720	3330	82	2700	3330	81	46-103	1	30
Atrazine	8270D	2890	3330	87	3030	3330	91	44-137	4	30
Benz(a)anthracene	8270D	2760	3330	83	2790	3330	84	32-105	1	30
Benzaldehyde	8270D	2080	3330	63	1850	3330	55	10-200	14	30
Benzo(a)pyrene	8270D	2790	3330	84	2930	3330	88	48-110	5	30

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Analyzed:** 04/25/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample RQ1803885-02				Duplicate Lab Control Sample RQ1803885-03				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Benzo(b)fluoranthene	8270D	2630	3330	79	2690	3330	81	44-107	3	30
Benzo(g,h,i)perylene	8270D	2960	3330	89	3000	3330	90	49-120	1	30
Benzo(k)fluoranthene	8270D	2750	3330	83	2810	3330	84	46-107	1	30
Biphenyl	8270D	2210	3330	66	1830	3330	55	24-104	18	30
2,2'-Oxybis(1-chloropropane)	8270D	2520	3330	75 *	2150	3330	65 *	13-63	14	30
Bis(2-chloroethoxy)methane	8270D	2520	3330	76	2020	3330	61	28-91	22	30
Bis(2-chloroethyl) Ether	8270D	2210	3330	66 *	1880	3330	56	13-63	16	30
Bis(2-ethylhexyl) Phthalate	8270D	3100	3330	93	3110	3330	93	35-119	<1	30
Butyl Benzyl Phthalate	8270D	2870	3330	86	2830	3330	85	47-117	1	30
Caprolactam	8270D	2440	3330	73	2400	3330	72	30-111	1	30
Carbazole	8270D	2690	3330	81	2860	3330	86	41-112	6	30
Chrysene	8270D	2850	3330	85	2840	3330	85	48-111	<1	30
Di-n-butyl Phthalate	8270D	2730	3330	82	2780	3330	83	51-120	1	30
Di-n-octyl Phthalate	8270D	3180	3330	95	3190	3330	96	47-127	1	30
Dibenz(a,h)anthracene	8270D	2730	3330	82	2800	3330	84	46-114	2	30
Dibenzofuran	8270D	2490	3330	75	2180	3330	65	34-97	14	30
Diethyl Phthalate	8270D	2320	3330	70	2260	3330	68	45-108	3	30
Dimethyl Phthalate	8270D	2230	3330	67	2150	3330	64	41-101	5	30
Fluoranthene	8270D	2700	3330	81	2820	3330	85	45-113	5	30
Fluorene	8270D	2440	3330	73	2250	3330	68	38-101	7	30
Hexachlorobenzene	8270D	2480	3330	74	2590	3330	78	41-106	5	30
Hexachlorobutadiene	8270D	2040	3330	61	1730	3330	52	10-142	16	30
Hexachlorocyclopentadiene	8270D	1470	3330	44	1130	3330	34	10-133	26	30
Hexachloroethane	8270D	1760	3330	53	1620	3330	49	10-129	8	30
Indeno(1,2,3-cd)pyrene	8270D	2800	3330	84	2880	3330	86	46-115	2	30
Isophorone	8270D	2400	3330	72	1940	3330	58	27-95	22	30
N-Nitrosodi-n-propylamine	8270D	2400	3330	72	1950	3330	58	21-89	22	30
N-Nitrosodiphenylamine	8270D	2750	3330	82	2770	3330	83	37-116	1	30
Naphthalene	8270D	2190	3330	66	1820	3330	55	31-123	18	30
Nitrobenzene	8270D	2090	3330	63	1750	3330	53	35-134	17	30
Pentachlorophenol (PCP)	8270D	1310 J	3330	39	1310 J	3330	39	10-137	<1	30
Phenanthrene	8270D	2630	3330	79	2650	3330	80	45-106	1	30
Phenol	8270D	2480	3330	74	2010	3330	60	10-144	21	30

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Analyzed:** 04/25/18

**Duplicate Lab Control Sample Summary**  
**Semivolatile Organic Compounds by GC/MS**

**Units:**ug/Kg  
**Basis:**Dry

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Pyrene	8270D	2970	3330	89	2990	3330	90	48-117	1	30



# Metals

**ALS Environmental—Rochester Laboratory**  
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**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil  
**Sample Name:** Method Blank  
**Lab Code:** R1803614-MB

**Service Request:** R1803614  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** Dry

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Arsenic, Total	6010C	0.3 U	mg/Kg	1.0	0.3	1	04/27/18 12:22	04/25/18	
Barium, Total	6010C	0.08 U	mg/Kg	2.0	0.08	1	04/27/18 12:22	04/25/18	
Cadmium, Total	6010C	<b>0.03 J</b>	mg/Kg	0.50	0.02	1	04/27/18 12:22	04/25/18	
Chromium, Total	6010C	0.097 U	mg/Kg	1.0	0.097	1	04/27/18 12:22	04/25/18	
Lead, Total	6010C	0.2 U	mg/Kg	5.0	0.2	1	04/27/18 12:22	04/25/18	
Mercury, Total	7471B	0.006 U	mg/Kg	0.033	0.006	1	04/26/18 16:57	04/25/18	
Selenium, Total	6010C	0.4 U	mg/Kg	1.0	0.4	1	04/27/18 12:22	04/25/18	
Silver, Total	6010C	0.07 U	mg/Kg	1.0	0.07	1	04/27/18 12:22	04/25/18	

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Analyzed:** 04/26/18 - 04/27/18

**Lab Control Sample Summary**  
**Inorganic Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R1803614-LCS

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Arsenic, Total	6010C	3.8	4.0	95	80-120
Barium, Total	6010C	202	200	101	80-120
Cadmium, Total	6010C	4.99	5.00	100	80-120
Chromium, Total	6010C	20.1	20.0	101	80-120
Lead, Total	6010C	49.2	50.0	98	80-120
Mercury, Total	7471B	0.172	0.167	103	80-120
Selenium, Total	6010C	91.0	101	90	80-120
Silver, Total	6010C	4.7	5.0	94	80-120

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:**R1803614  
**Date Collected:**04/20/18  
**Date Received:**04/20/18  
**Date Analyzed:**04/26/18 - 04/27/18

**Duplicate Matrix Spike Summary  
Inorganic Parameters**

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002

**Units:**mg/Kg  
**Basis:**Dry

Analyte Name	Method	Sample Result	Result	Matrix Spike R1803614-002MS		Duplicate Matrix Spike R1803614-002DMS		% Rec	Limits	RPD	RPD Limit
				Spike Amount	% Rec	Result	Spike Amount				
Arsenic, Total	6010C	2.9	7.3	4.4	102	7.0	4.4	95	75-125	4	20
Barium, Total	6010C	23.0	231	219	95	243	219	100	75-125	5	20
Cadmium, Total	6010C	0.17 BJ	4.99	5.47	88	4.98	5.47	88	75-125	<1	20
Chromium, Total	6010C	5.2	25.5	21.9	93	26.3	21.9	97	75-125	3	20
Lead, Total	6010C	4.9 J	54.7	54.7	91	54.4	54.7	91	75-125	<1	20
Mercury, Total	7471B	0.007 U	0.190	0.177	107	0.182	0.172	106	80-120	4	20
Selenium, Total	6010C	0.5 U	98.7	111	89	99.7	111	90	75-125	<1	20
Silver, Total	6010C	0.08 U	5.3	5.5	96	5.3	5.5	97	75-125	1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



## General Chemistry

**ALS Environmental—Rochester Laboratory**  
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ALS Group USA, Corp.

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QA/QC Report

**Client:** Day Environmental, Incorporated  
**Project:** Bulls Head North, Rochester, NY/5464S-18  
**Sample Matrix:** Soil

**Service Request:** R1803614  
**Date Collected:** 04/20/18  
**Date Received:** 04/20/18  
**Date Analyzed:** 04/24/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** TP-25 (5.0)  
**Lab Code:** R1803614-002

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>MDL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1803614-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	-	89.6	89.8	89.7	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.